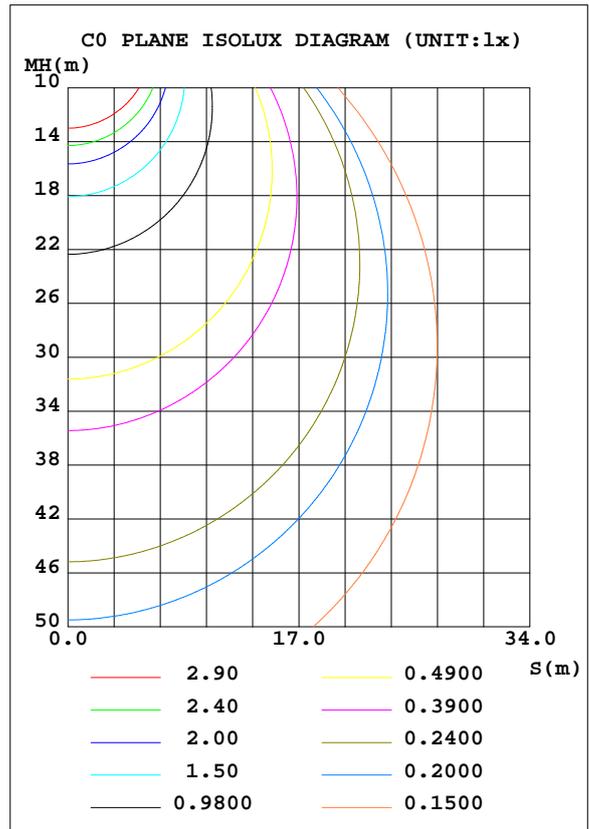
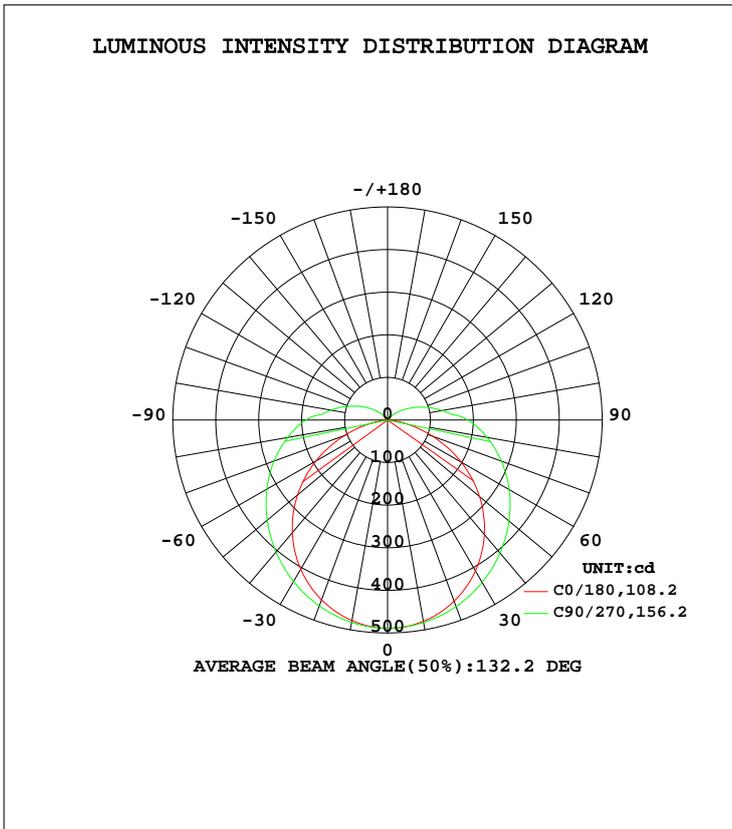


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.06V I:0.1786A P:21.280W PF:0.9924 Freq:60.00Hz Lamp Flux:1940.16x1 lm		
NAME: ASD-OLWS-21-18N20BK-MS 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.: LED Luminaires	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	ASD-OLWS-21-18N20BK-MS 5000K	Imax(cd)	488.8	S/MH(C0/180)	1.24
NOMINAL POWER(W)	20W	LOR(%)	100.0	S/MH(C90/270)	1.35
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1940.2	η UP, DN(C0-180)	5.7,44.4
NOMINAL FLUX(lm)	1940.16	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	5.3,44.7
LAMPS INSIDE	1	η up(%)	11.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	89.0	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Water
 Test Date:2024-09-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:47%
 Test Distance:2.519m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	478.0	479.9	482.3	481.0	479.8	481.1	482.6	480.5	0- 10	46.27	46.27	2.38,2.38
20	449.3	455.8	464.5	458.0	452.7	458.6	465.9	457.8	10- 20	133.0	179.3	9.24,9.24
30	404.3	419.3	437.9	422.7	409.2	423.7	440.4	423.1	20- 30	203.7	382.9	19.7,19.7
40	345.2	372.9	404.2	377.4	350.9	378.4	407.5	378.5	30- 40	250.9	633.9	32.7,32.7
50	273.7	319.6	365.9	325.5	279.6	325.9	369.1	326.9	40- 50	270.9	904.7	46.6,46.6
60	192.6	263.8	324.8	271.1	198.7	269.9	327.0	272.2	50- 60	263.6	1168	60.2,60.2
70	107.4	209.2	281.3	217.2	111.3	213.5	282.0	217.4	60- 70	233.2	1402	72.2,72.2
80	31.00	158.1	236.5	166.2	34.66	160.3	235.2	165.3	70- 80	187.4	1589	81.9,81.9
90	0.9394	113.0	190.1	120.7	0.8762	111.8	186.7	117.1	80- 90	138.3	1727	89,89
100	1.413	70.14	134.3	77.34	1.445	68.56	129.2	72.80	90-100	93.79	1821	93.9,93.9
110	2.824	38.01	94.99	42.83	2.870	34.75	88.85	37.63	100-110	55.55	1877	96.7,96.7
120	4.221	20.18	60.66	23.33	4.103	16.95	53.59	18.71	110-120	32.30	1909	98.4,98.4
130	5.570	7.242	31.65	8.912	5.410	4.841	25.73	5.852	120-130	16.19	1925	99.2,99.2
140	6.960	3.223	10.85	2.779	6.545	3.641	6.767	2.912	130-140	6.476	1932	99.6,99.6
150	7.985	5.609	3.199	4.682	7.443	4.954	3.461	4.250	140-150	3.037	1935	99.7,99.7
160	8.840	8.142	6.161	7.762	8.146	6.015	5.168	6.109	150-160	2.812	1937	99.9,99.9
170	6.777	8.420	9.096	9.012	6.623	6.012	7.426	6.646	160-170	2.125	1940	100,100
180	5.826	5.977	2.773	4.327	5.830	5.978	2.769	4.328	170-180	0.6306	1940	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 768.55 lm

%lum = 39.6%
 %lamp = 39.6%

Conical surface Flux(120deg): 1168.3 lm

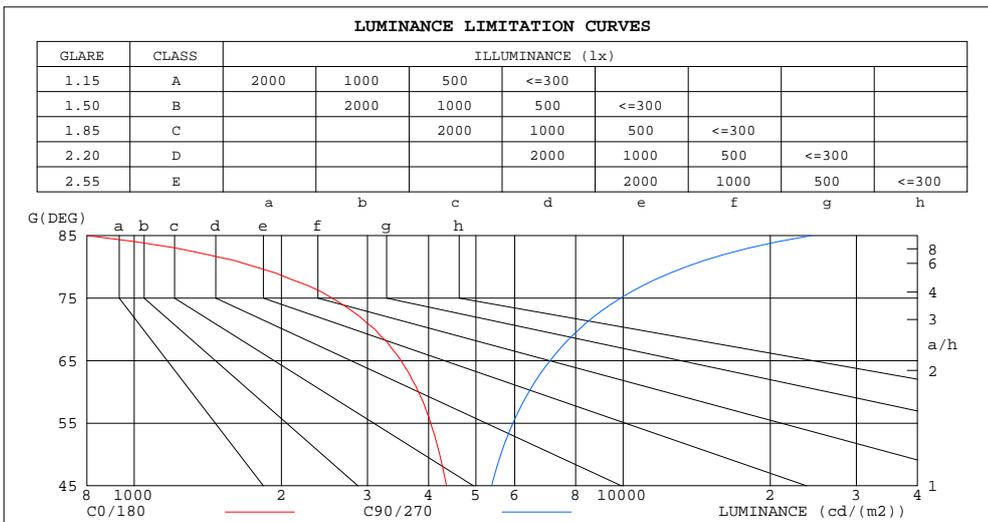
%lum = 60.2%
 %lamp = 60.2%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Water
 Test Date:2024-09-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:47%
 Test Distance:2.519m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.06V I:0.1786A P:21.280W PF:0.9924 Freq:60.00Hz Lamp Flux:1940.16x1 lm		
NAME:ASD-OLWS-21-18N20BK-MS 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.: LED Luminaires	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A



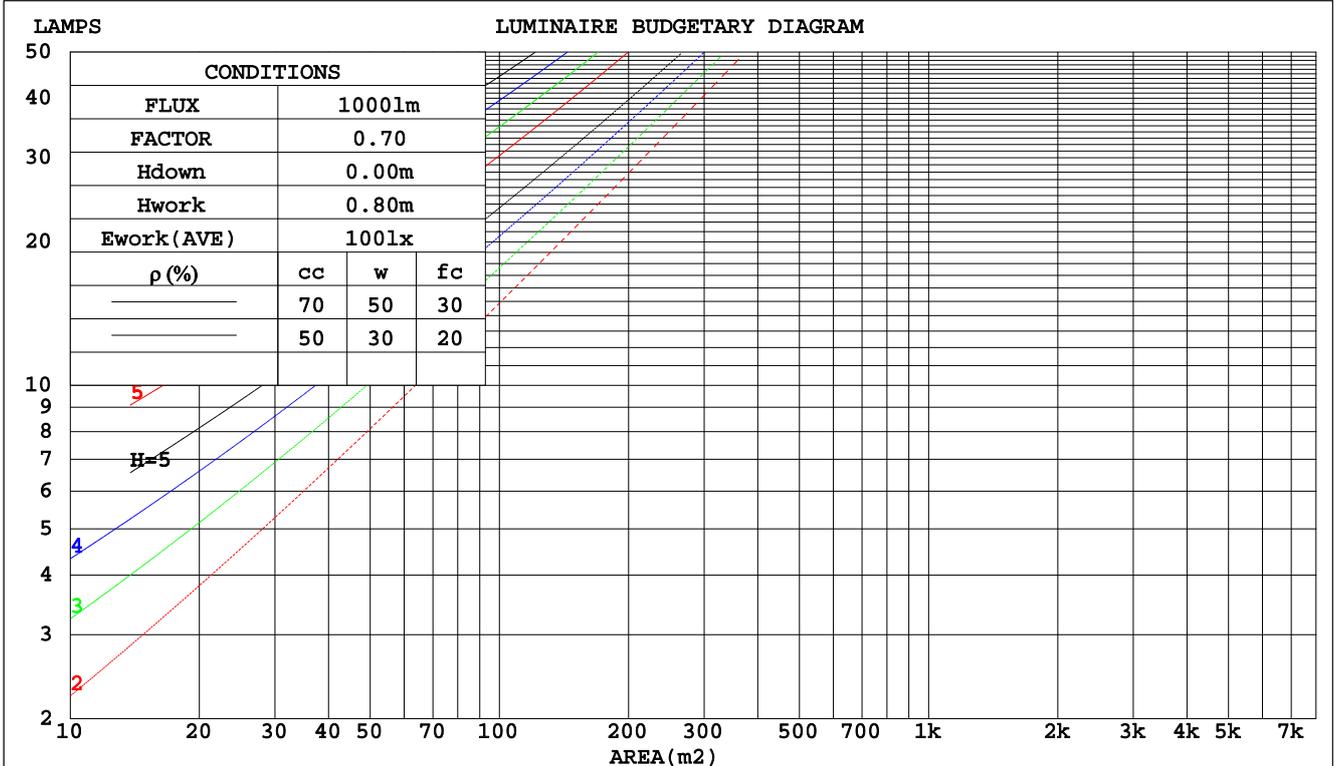
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Water
 Test Date:2024-09-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:47%
 Test Distance:2.519m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.06V I:0.1786A P:21.280W PF:0.9924 Freq:60.00Hz Lamp Flux:1940.16x1 lm		
NAME:ASD-OLWS-21-18N20BK-MS 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.:LED Luminaires	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.16	1.16	1.16	1.12	1.12	1.12	1.05	1.05	1.05	.98	.98	.98	.92	.92	.92	.89
1.0	.98	.92	.87	.94	.89	.85	.88	.84	.80	.82	.79	.76	.76	.74	.72	.69
2.0	.84	.76	.69	.81	.73	.67	.75	.69	.64	.70	.65	.61	.66	.62	.58	.55
3.0	.73	.64	.56	.70	.62	.55	.65	.58	.53	.61	.55	.50	.57	.52	.48	.45
4.0	.64	.54	.47	.62	.53	.46	.58	.50	.44	.54	.48	.42	.51	.45	.41	.38
5.0	.57	.47	.40	.55	.46	.39	.51	.44	.38	.48	.42	.36	.45	.40	.35	.33
6.0	.51	.41	.35	.49	.40	.34	.46	.39	.33	.44	.37	.32	.41	.35	.31	.28
7.0	.46	.37	.30	.45	.36	.30	.42	.34	.29	.40	.33	.28	.37	.31	.27	.25
8.0	.42	.33	.27	.41	.32	.27	.38	.31	.26	.36	.30	.25	.34	.28	.24	.22
9.0	.38	.30	.24	.37	.29	.24	.35	.28	.23	.33	.27	.22	.32	.26	.22	.20
10.0	.35	.27	.22	.34	.27	.21	.33	.26	.21	.31	.25	.20	.29	.24	.20	.18



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Water
 Test Date:2024-09-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:47%
 Test Distance:2.519m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.06V I:0.1786A P:21.280W PF:0.9924 Freq:60.00Hz		
Lamp Flux:1940.16x1 lm		
NAME:ASD-OLWS-21-18N20BK-MS 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.: LED Luminaires	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.381	.217	.069	.371	.212	.067	.351	.201	.064	.333	.192	.062	.316	.183	.059	
2.0	.333	.182	.056	.323	.178	.055	.305	.170	.053	.289	.162	.051	.274	.155	.049	
3.0	.296	.158	.047	.288	.154	.046	.272	.147	.045	.257	.141	.043	.243	.135	.042	
4.0	.267	.139	.041	.260	.136	.040	.245	.130	.039	.232	.124	.038	.219	.119	.036	
5.0	.243	.124	.036	.236	.121	.035	.223	.116	.034	.211	.111	.033	.200	.107	.032	
6.0	.223	.112	.032	.217	.110	.032	.205	.105	.031	.194	.101	.030	.184	.097	.029	
7.0	.206	.102	.029	.200	.100	.028	.190	.096	.028	.179	.092	.027	.170	.088	.026	
8.0	.191	.093	.026	.186	.092	.026	.176	.088	.025	.167	.085	.024	.158	.081	.024	
9.0	.178	.086	.024	.173	.085	.024	.164	.081	.023	.156	.078	.022	.148	.075	.022	
10.0	.167	.080	.022	.162	.078	.022	.154	.076	.021	.146	.073	.021	.139	.070	.020	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.274	.274	.274	.234	.234	.234	.160	.160	.160	.092	.092	.092	.029	.029	.029	
1.0	.270	.240	.213	.231	.206	.183	.158	.142	.127	.091	.082	.074	.029	.026	.024	
2.0	.263	.217	.178	.225	.186	.154	.154	.129	.107	.089	.075	.063	.029	.024	.020	
3.0	.255	.200	.156	.219	.172	.135	.150	.120	.095	.087	.070	.056	.028	.023	.018	
4.0	.247	.187	.141	.212	.162	.123	.146	.113	.086	.084	.066	.051	.027	.021	.017	
5.0	.239	.177	.131	.205	.153	.114	.142	.107	.081	.082	.063	.048	.026	.021	.016	
6.0	.232	.169	.124	.199	.146	.108	.137	.102	.076	.080	.060	.045	.026	.020	.015	
7.0	.225	.162	.119	.193	.141	.103	.133	.099	.073	.078	.058	.044	.025	.019	.014	
8.0	.218	.157	.115	.188	.136	.100	.130	.095	.071	.075	.056	.042	.024	.018	.014	
9.0	.211	.152	.111	.182	.132	.097	.126	.093	.069	.074	.055	.041	.024	.018	.014	
10.0	.206	.148	.109	.177	.128	.095	.123	.090	.068	.072	.053	.040	.023	.018	.013	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Water
 Test Date:2024-09-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:47%
 Test Distance:2.519m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.06V I:0.1786A P:21.280W PF:0.9924 Freq:60.00Hz Lamp Flux:1940.16x1 lm		
NAME:ASD-OLWS-21-18N20BK-MS 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.: LED Luminaires	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	14.3	15.8	14.7	16.2	16.6	16.4	17.9	16.8	18.3	18.7
3H	15.7	17.0	16.1	17.4	17.9	19.0	20.4	19.5	20.8	21.3
4H	16.1	17.4	16.6	17.9	18.3	20.5	21.8	21.0	22.2	22.7
6H	16.4	17.6	16.9	18.1	18.6	22.1	23.3	22.6	23.8	24.3
8H	16.4	17.6	16.9	18.1	18.6	23.0	24.1	23.5	24.6	25.1
12H	16.4	17.5	16.9	18.0	18.6	24.0	25.1	24.5	25.6	26.1
4H 2H	15.4	16.7	15.9	17.1	17.6	16.9	18.2	17.4	18.7	19.2
3H	17.0	18.1	17.5	18.6	19.2	19.8	21.0	20.3	21.4	22.0
4H	17.7	18.7	18.2	19.2	19.8	21.5	22.5	22.0	23.0	23.6
6H	18.1	19.1	18.7	19.6	20.2	23.3	24.2	23.9	24.8	25.4
8H	18.2	19.1	18.8	19.7	20.3	24.3	25.2	24.9	25.7	26.4
12H	18.3	19.1	18.9	19.7	20.3	25.5	26.3	26.1	26.9	27.5
8H 4H	18.7	19.6	19.3	20.2	20.8	21.8	22.7	22.4	23.2	23.8
6H	19.6	20.3	20.2	20.9	21.6	23.9	24.7	24.5	25.2	25.9
8H	19.9	20.5	20.5	21.2	21.8	25.1	25.8	25.8	26.4	27.1
12H	20.1	20.7	20.7	21.3	22.0	26.6	27.2	27.2	27.8	28.5
12H 4H	19.1	19.9	19.7	20.5	21.1	21.8	22.6	22.4	23.2	23.8
6H	20.2	20.8	20.8	21.4	22.1	24.0	24.7	24.6	25.3	26.0
8H	20.7	21.3	21.3	21.9	22.6	25.3	25.9	26.0	26.6	27.3
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117, 1940 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.3)
Area: 0.1012 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Water
Test Date:2024-09-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.06V I:0.1786A P:21.280W PF:0.9924 Freq:60.00Hz Lamp Flux:1940.16x1 lm		
NAME:ASD-OLWS-21-18N20BK-MS 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.: LED Luminaires	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

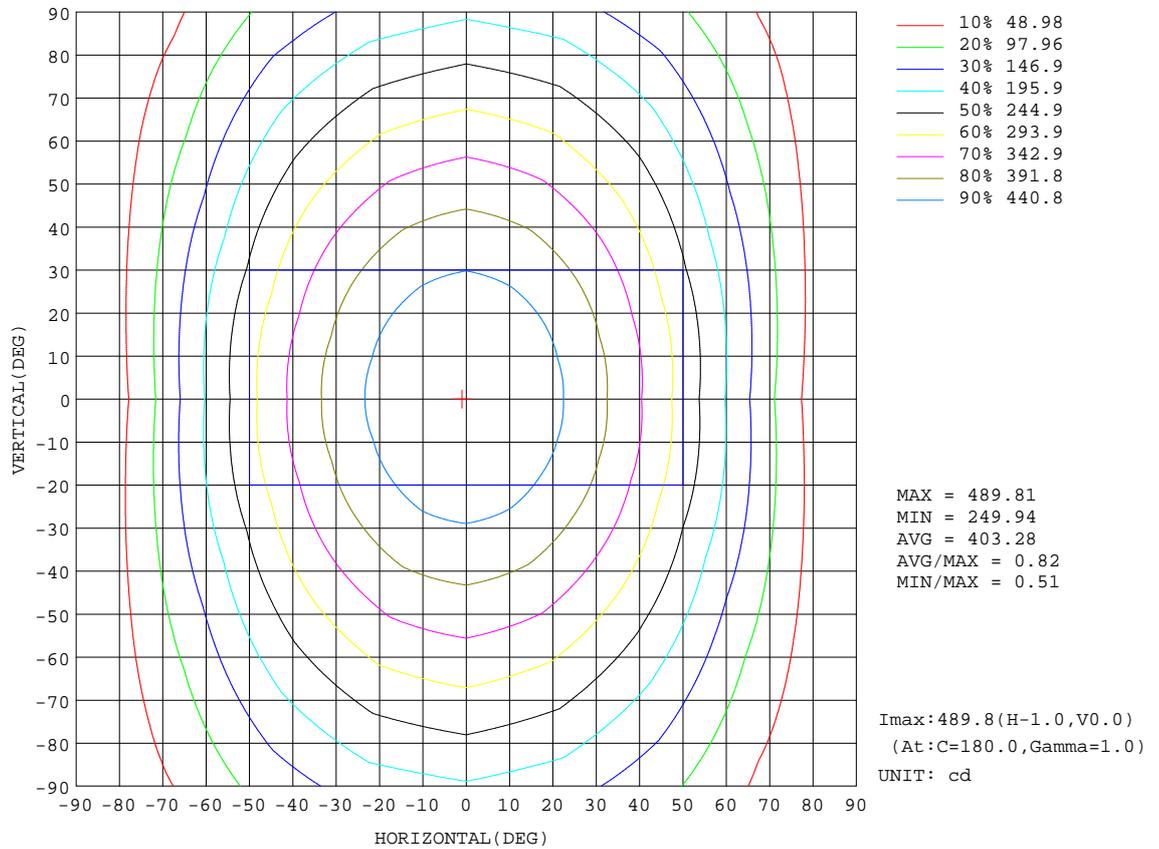
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	50	38	31	49	38	31	48	37	30	24
0.80	60	47	39	58	46	39	56	45	38	30
1.00	67	55	47	66	54	46	63	55	45	37
1.25	74	62	54	72	61	53	69	59	52	43
1.50	79	68	59	77	66	58	73	64	57	48
2.00	87	76	68	84	74	67	79	71	65	54
2.50	91	81	73	88	79	72	83	75	69	58
3.00	95	86	79	92	83	77	86	79	74	62
4.00	99	92	85	96	89	83	90	84	80	67
5.00	102	96	90	99	93	88	92	88	83	70
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Water
 Test Date:2024-09-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:47%
 Test Distance:2.519m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.06V I:0.1786A P:21.280W PF:0.9924 Freq:60.00Hz Lamp Flux:1940.16x1 lm		
NAME:ASD-OLWS-21-18N20BK-MS 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.: LED Luminaires	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A



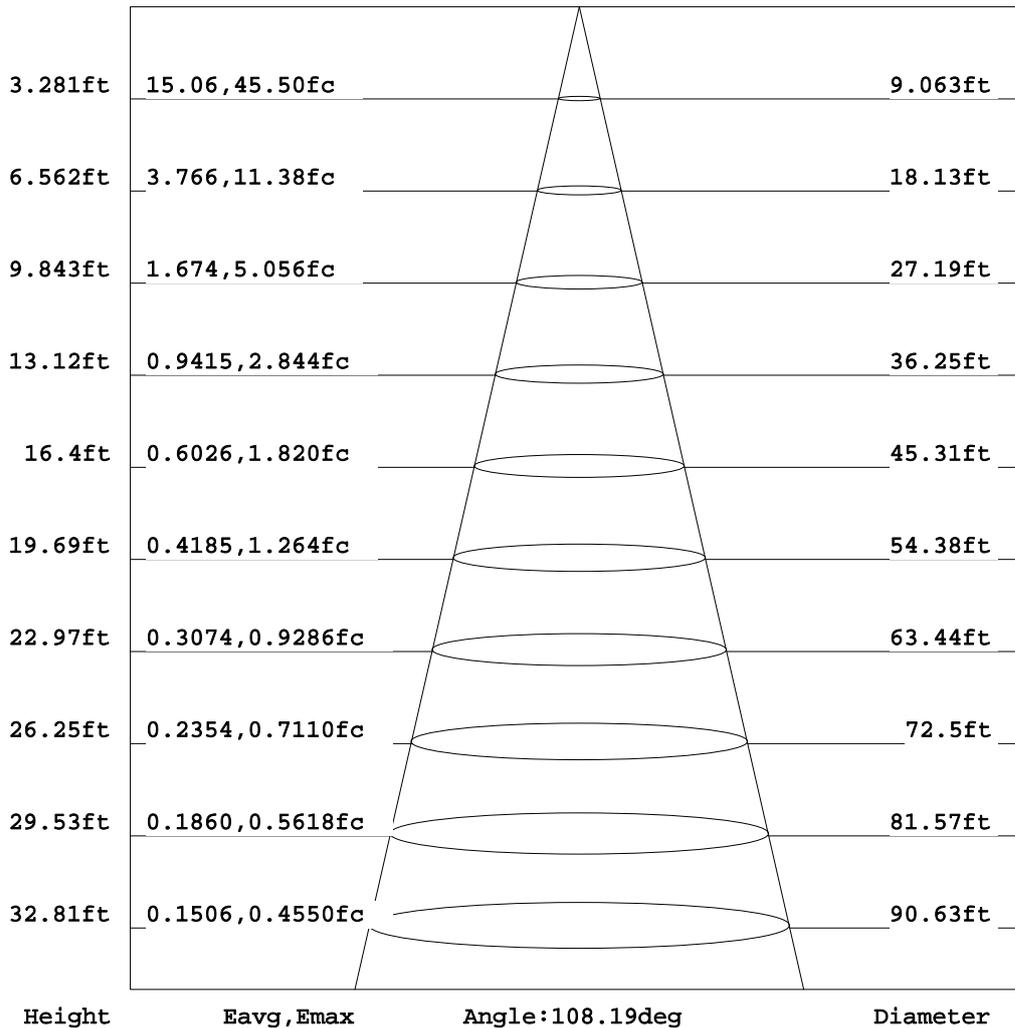
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Water
Test Date:2024-09-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.06V I:0.1786A P:21.280W PF:0.9924 Freq:60.00Hz Lamp Flux:1940.16x1 lm		
NAME:ASD-OLWS-21-18N20BK-MS 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.:LED Luminaires	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

Flux out:1039 lm



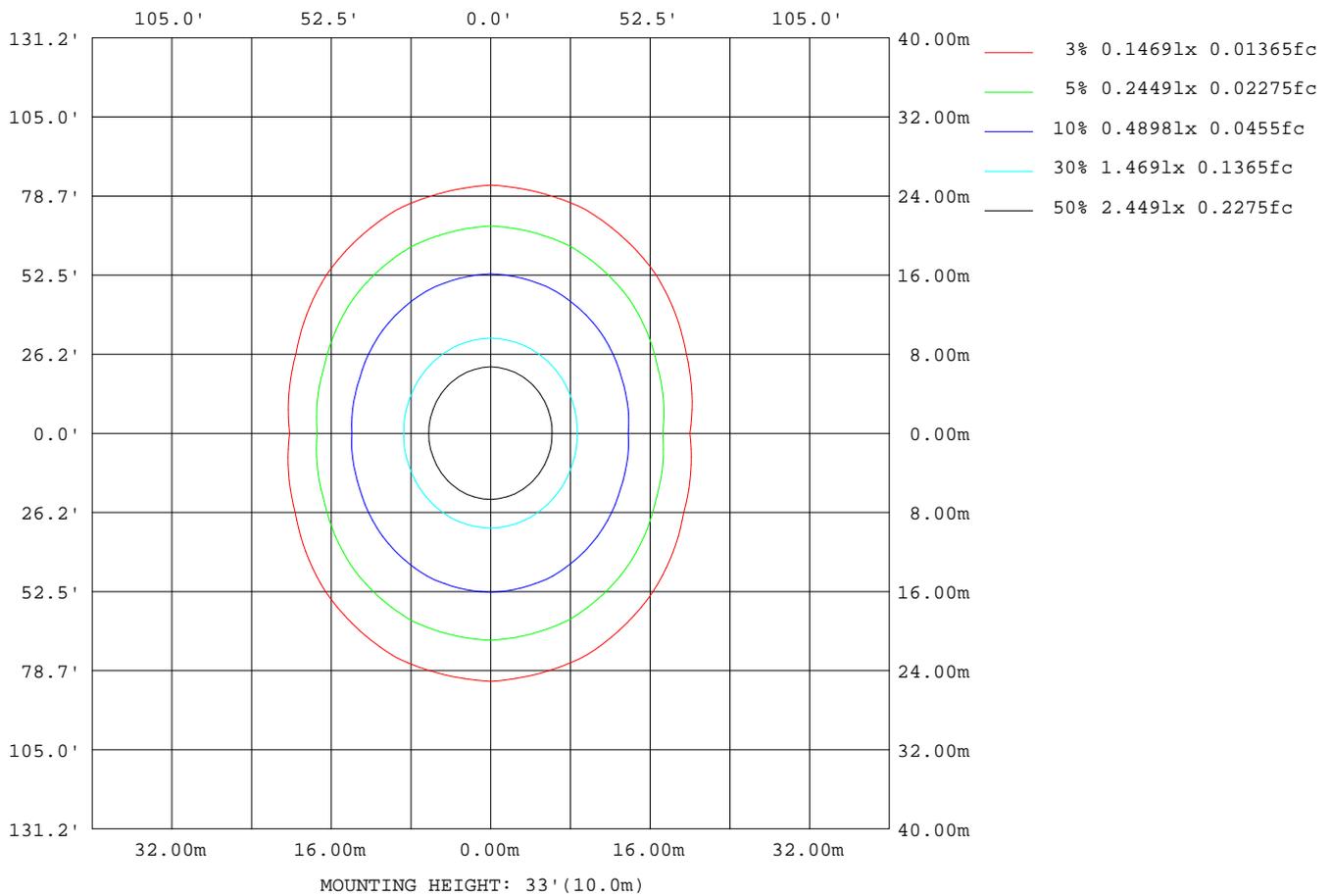
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Water
Test Date:2024-09-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.06V I:0.1786A P:21.280W PF:0.9924 Freq:60.00Hz Lamp Flux:1940.16x1 lm		
NAME:ASD-OLWS-21-18N20BK-MS 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.:LED Luminaires	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Water
 Test Date:2024-09-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:47%
 Test Distance:2.519m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:120.06V I:0.1786A P:21.280W PF:0.9924 Freq:60.00Hz Lamp Flux:1940.16x1 lm		
NAME:ASD-OLWS-21-18N20BK-MS 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.:LED Luminaires	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

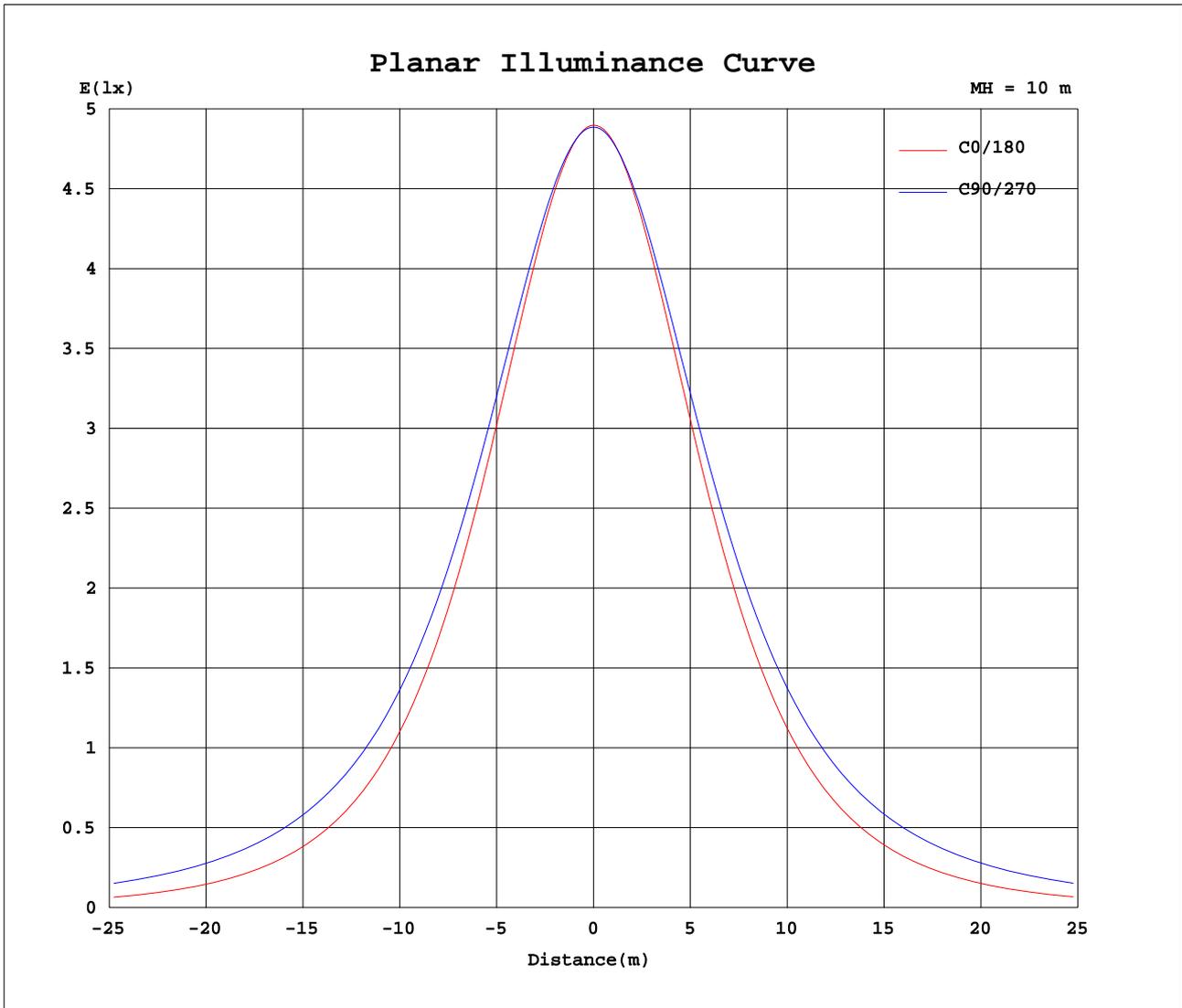
AvgL	cd/m2
L_0~180(65)av	3571
L_0~180(75)av	2607
L_0~180(85)av	911
L_90~270(65)av	7110
L_90~270(75)av	9881
L_90~270(85)av	24144
L_45(65)av	5647
L_45(75)av	7172
L_45(85)av	15648

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Water
 Test Date:2024-09-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:47%
 Test Distance:2.519m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.9DEG
 Operators: Water
 Test Date: 2024-09-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity: 47%
 Test Distance: 2.519m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.06V I:0.1786A P:21.280W PF:0.9924 Freq:60.00Hz Lamp Flux:1940.16x1 lm		
NAME:ASD-OLWS-21-18N20BK-MS 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.: LED Luminaires	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	489	489	489	489	489	489	489	489	489	489	489	489	489	489	489	489			
5	486	486	486	487	487	487	487	487	487	487	487	487	487	487	487	487			
10	478	479	480	482	482	482	481	480	480	480	481	482	483	482	481	479			
15	466	467	470	473	475	474	471	469	469	469	472	474	476	474	471	468			
20	449	451	456	462	465	463	458	454	453	454	459	463	466	463	458	452			
25	429	432	439	448	452	450	442	435	433	435	443	450	454	450	442	433			
30	404	409	419	432	438	434	423	412	409	412	424	435	440	435	423	411			
35	376	383	397	414	422	416	401	386	382	387	402	417	425	417	402	385			
40	345	353	373	395	404	397	377	358	351	358	378	398	408	398	378	356			
45	311	321	347	374	386	377	352	326	317	326	353	377	389	378	353	325			
50	274	287	320	352	366	355	326	293	280	293	326	356	369	356	327	293			
55	234	252	292	329	346	334	298	258	240	258	298	333	348	334	300	258			
60	193	216	264	307	325	311	271	223	199	221	270	310	327	311	272	223			
65	150	180	236	283	303	288	244	188	155	185	241	286	305	288	245	188			
70	107	145	209	260	281	265	217	153	111	150	214	262	282	264	217	154			
75	66.4	112	183	237	259	242	191	121	70.1	116	186	237	259	240	191	122			
80	31.0	84.0	158	214	236	219	166	92.6	34.7	86.6	160	213	235	216	165	92.8			
85	7.06	59.9	135	191	214	196	143	68.5	9.01	61.2	135	189	212	192	140	67.8			
90	0.94	41.1	113	168	190	172	121	49.2	0.88	41.1	112	165	187	168	117	47.3			
95	1.08	27.3	92.6	140	154	146	100	34.3	0.96	26.4	90.9	139	151	141	95.9	31.6			
100	1.41	16.9	70.1	106	134	110	77.3	22.5	1.44	15.7	68.6	103	129	104	72.8	19.6			
105	2.07	9.50	50.5	89.3	114	93.3	56.9	13.5	2.09	8.20	48.2	84.9	109	87.2	51.6	10.7			
110	2.82	5.30	38.0	75.0	95.0	78.3	42.8	7.65	2.87	4.10	34.7	69.8	88.8	72.0	37.6	5.60			
115	3.56	2.82	28.5	60.6	77.3	63.5	32.5	4.14	3.50	2.36	25.1	54.8	70.3	56.5	27.5	2.86			
120	4.22	2.16	20.2	46.9	60.7	49.3	23.3	2.08	4.10	2.82	17.0	41.0	53.6	42.4	18.7	2.10			
125	4.86	3.12	13.1	34.4	44.9	36.4	15.5	2.17	4.76	3.56	10.0	28.7	38.7	29.8	11.6	2.51			
130	5.57	4.25	7.24	23.5	31.6	25.1	8.91	2.78	5.41	4.19	4.84	18.2	25.7	19.1	5.85	3.12			
135	6.29	5.26	3.31	14.3	20.3	15.4	4.04	3.71	6.01	4.67	2.98	9.71	15.0	10.4	2.51	3.75			
140	6.96	6.16	3.22	6.91	10.9	7.62	2.78	5.09	6.55	5.06	3.64	3.58	6.77	3.82	2.91	4.45			
145	7.53	7.07	4.31	2.89	4.15	2.84	3.53	6.43	7.02	5.52	4.29	3.16	2.67	2.86	3.55	5.12			
150	7.98	7.87	5.61	3.75	3.20	3.44	4.68	7.64	7.44	6.15	4.95	3.94	3.46	3.60	4.25	5.67			
155	8.43	8.46	6.94	5.08	4.43	4.63	6.29	8.52	7.82	6.85	5.56	4.72	4.25	4.54	5.07	6.57			
160	8.84	8.84	8.14	6.84	6.16	6.39	7.76	8.97	8.15	7.29	6.02	5.38	5.17	5.40	6.11	7.15			
165	8.40	8.92	8.62	8.22	7.92	8.05	8.81	8.98	8.10	7.27	6.78	6.10	6.37	6.37	6.64	7.53			
170	6.78	8.52	8.42	8.60	9.10	9.01	9.01	7.63	6.62	6.21	6.01	5.73	7.43	6.66	6.65	7.25			
175	5.07	5.93	7.96	8.30	8.67	8.95	6.77	5.75	5.24	5.12	4.90	5.02	4.62	4.68	5.81	5.06			
180	5.83	5.85	5.98	5.66	2.77	3.83	4.33	5.10	5.83	5.85	5.98	5.66	2.77	3.83	4.33	5.10			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
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