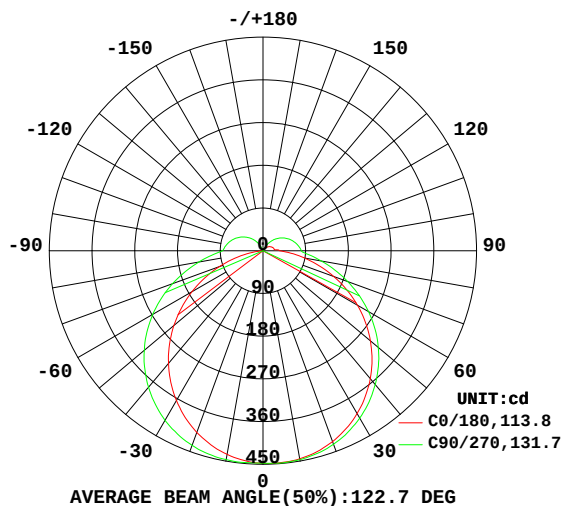


LUMINAIRE PHOTOMETRIC TEST REPORT

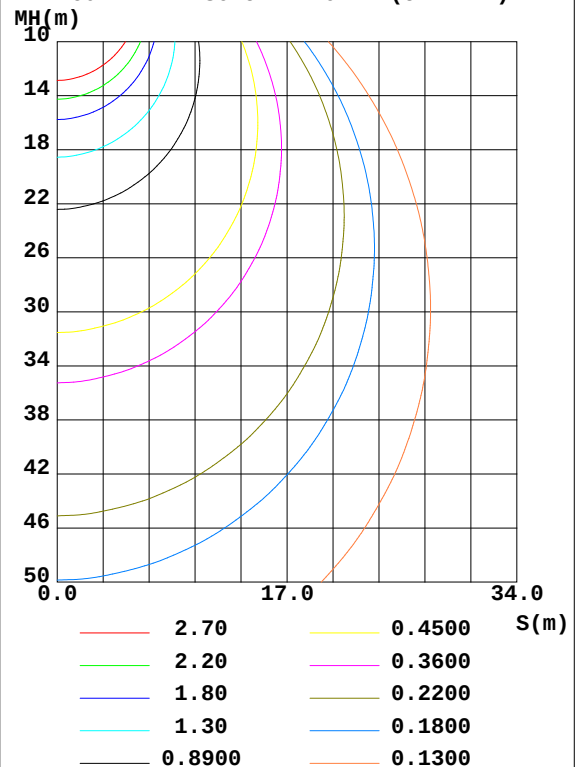
Test:U:120.06V I:0.2886A P:20.640W PF:0.5957 Freq:60.00Hz Lamp Flux:1710.78x1 lm		
NAME: ASD-OLWS-23-14D20SM-RGBW-BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 6500K	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 82.89 lm/W
MODEL	ASD-OLWS-23-14D20SM-RGBW-BK	I _{max} (cd)	449.1	S/MH(C0/180)	1.31	
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	1.35	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1710.8	η UP, DN(C0-180)	5.7, 44.2	
NOMINAL FLUX(lm)	1710.78	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	5.7, 44.4	
LAMPS INSIDE	1	η up(%)	11.4	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)	120	η down(%)	88.6	CIBSE SHR MAX	1.50	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Water
Test Date:2024-10-23

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-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	435.6	440.8	446.9	447.0	445.0	447.5	447.0	441.7	0- 10	42.58	42.58	2.49, 2.49
20	407.5	421.9	436.2	435.8	428.0	434.3	433.7	421.7	10- 20	123.6	166.2	9.71, 9.71
30	364.7	390.0	412.6	411.4	396.2	408.2	407.5	388.6	20- 30	191.1	357.3	20.9, 20.9
40	309.7	345.1	375.1	373.3	351.8	368.5	368.0	342.9	30- 40	236.4	593.7	34.7, 34.7
50	245.1	289.7	326.5	323.7	295.6	316.8	317.1	286.2	40- 50	253.9	847.6	49.5, 49.5
60	173.1	226.3	268.2	264.2	229.8	255.5	257.0	221.5	50- 60	241.5	1089	63.7, 63.7
70	97.87	157.6	202.7	197.0	158.9	187.6	190.0	152.4	60- 70	201.4	1290	75.4, 75.4
80	28.53	92.81	137.2	130.6	89.17	120.6	124.7	88.06	70- 80	142.4	1433	83.8, 83.8
90	0.1848	50.79	85.37	76.93	35.25	72.74	81.16	50.64	80- 90	83.32	1516	88.6, 88.6
100	0.6973	44.97	77.46	68.06	23.80	64.43	73.88	44.96	90-100	58.87	1575	92.1, 92.1
110	0.9481	38.98	68.41	58.05	21.35	54.49	64.65	38.13	100-110	49.79	1625	95, 95
120	0.9752	31.17	57.23	45.66	17.47	41.94	53.57	30.08	110-120	38.18	1663	97.2, 97.2
130	0.7146	22.18	44.27	30.31	12.71	26.49	40.84	20.31	120-130	25.58	1689	98.7, 98.7
140	1.143	11.34	30.29	14.16	7.311	9.921	26.25	8.588	130-140	14.44	1703	99.5, 99.5
150	1.631	2.466	13.94	1.870	1.933	1.924	9.710	1.962	140-150	5.714	1709	99.9, 99.9
160	2.262	2.563	2.559	2.024	0.9795	1.840	2.100	2.025	150-160	1.300	1710	100, 100
170	1.492	2.121	2.217	1.772	1.098	1.530	1.723	1.524	160-170	0.5489	1711	100, 100
180	1.880	1.574	1.355	1.718	1.880	1.573	1.356	1.718	170-180	0.1492	1711	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

Conical surface Flux(90deg): 720.32 lm

%lum = 42.1%

%lamp = 42.1%

Conical surface Flux(120deg): 1089.1 lm

%lum = 63.7%

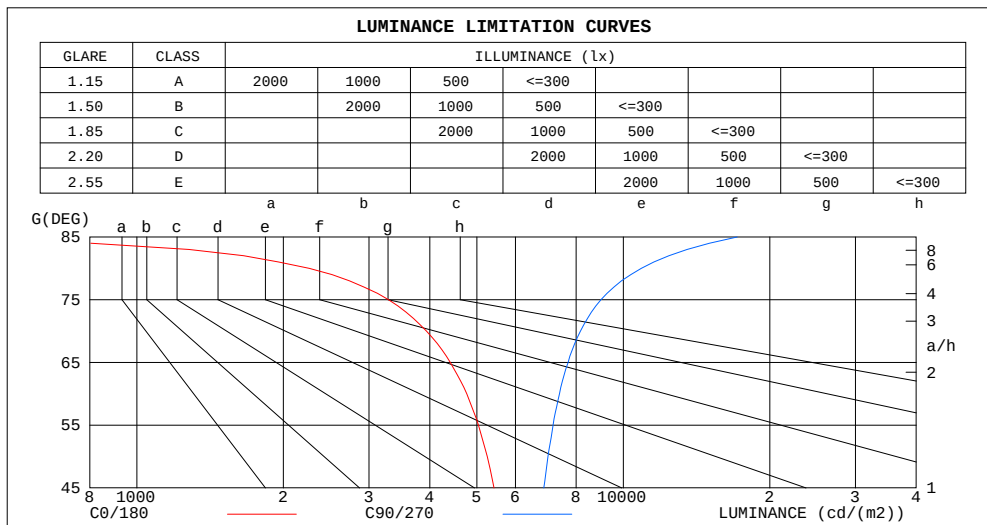
%lamp = 63.7%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.2DEG
 Operators: Water
 Test Date: 2024-10-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.446
 Humidity: 47%
 Test Distance: 2.519m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.06V I:0.2886A P:20.640W PF:0.5957 Freq:60.00Hz Lamp Flux:1710.78x1 lm		
NAME: ASD-OLWS-23-14D20SM-RGBW-BK	TYPE: N/A	WEIGHT: N/A
SPEC.:6500K	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	499	17136
80	2262	10886
75	3292	8996
70	3939	8165
65	4408	7697
60	4766	7391
55	5037	7169
50	5250	6998
45	5422	6861

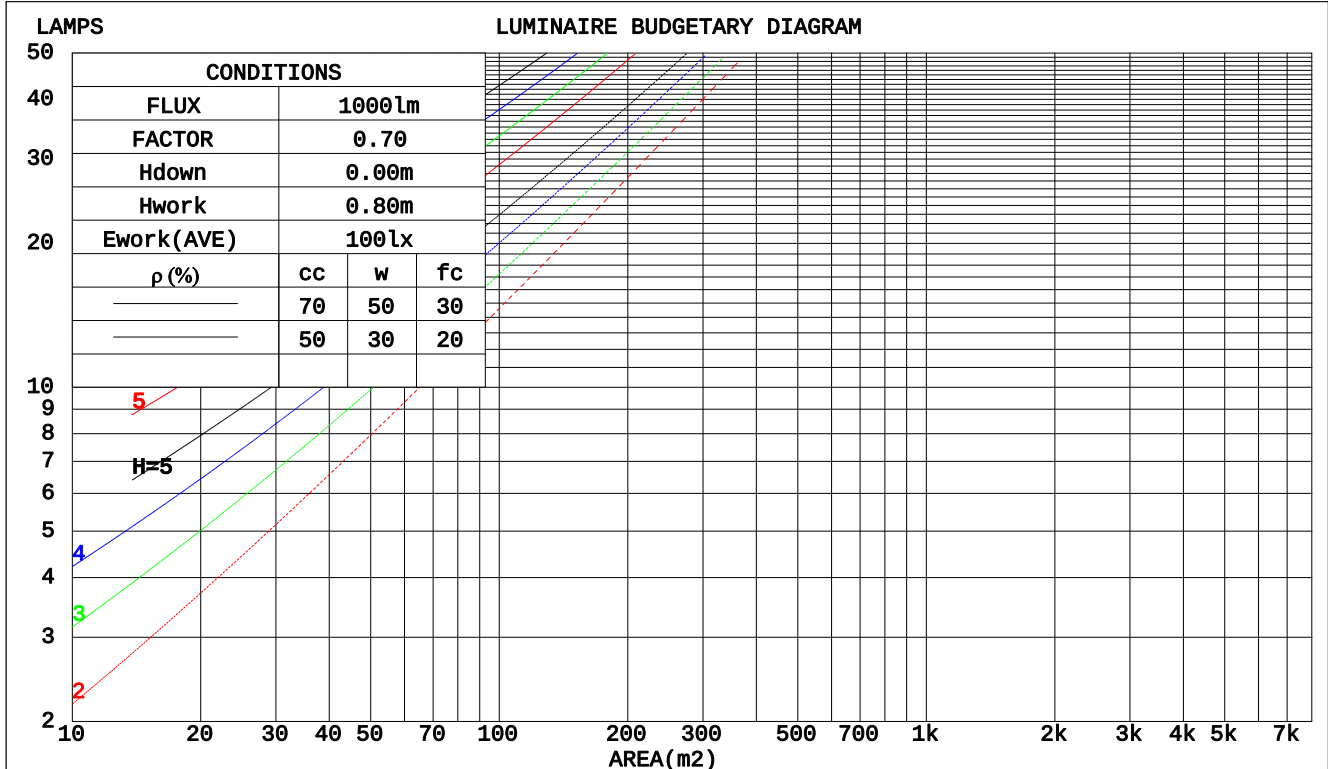
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Water
Test Date:2024-10-23

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-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:0.2886A P:20.640W PF:0.5957 Freq:60.00Hz Lamp Flux:1710.78x1 lm		
NAME: ASD-OLWS-23-14D20SM-RGBW-BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 6500K	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	.99	.94	.90	.96	.91	.87	.89	.86	.82	.83	.80	.78	.78	.76	.73	.71
2.0	.85	.78	.72	.82	.76	.70	.77	.71	.67	.72	.67	.63	.67	.64	.60	.57
3.0	.74	.66	.59	.72	.64	.57	.67	.61	.55	.63	.57	.53	.59	.54	.50	.48
4.0	.65	.56	.49	.63	.55	.48	.59	.52	.46	.56	.50	.45	.52	.47	.43	.40
5.0	.58	.49	.42	.56	.48	.41	.53	.45	.40	.50	.43	.38	.47	.41	.37	.34
6.0	.52	.43	.36	.51	.42	.36	.48	.40	.35	.45	.38	.33	.42	.37	.32	.30
7.0	.47	.38	.32	.46	.37	.31	.43	.36	.30	.41	.34	.29	.38	.33	.28	.26
8.0	.43	.34	.28	.42	.34	.28	.39	.32	.27	.37	.31	.26	.35	.30	.25	.23
9.0	.39	.31	.25	.38	.30	.25	.36	.29	.24	.34	.28	.23	.33	.27	.23	.21
10.0	.36	.28	.23	.35	.28	.22	.33	.27	.22	.32	.26	.21	.30	.25	.21	.19



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Water
Test Date:2024-10-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.06V I:0.2886A P:20.640W PF:0.5957 Freq:60.00Hz Lamp Flux:1710.78x1 lm								
NAME: ASD-OLWS-23-14D20SM-RGBW-BK				TYPE: N/A			WEIGHT: N/A	
SPEC.: 6500K				DIM.: N/A			SERIAL No.: N/A	
MFR.: ASD Lighting Corp				SUR.: N/A			Shielding Angle: N/A	

ρ_{cc}	80%			70%			50%			30%			10%			0	
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.351	.200	.063	.340	.194	.062	.321	.184	.059	.302	.174	.056	.285	.165	.053		
2.0	.315	.172	.053	.305	.168	.052	.287	.160	.050	.271	.152	.048	.256	.145	.046		
3.0	.285	.151	.045	.276	.148	.044	.260	.141	.043	.245	.134	.041	.231	.128	.040		
4.0	.259	.135	.040	.251	.131	.039	.237	.126	.037	.223	.120	.036	.211	.115	.035		
5.0	.237	.121	.035	.230	.118	.034	.217	.113	.033	.205	.108	.032	.193	.103	.031		
6.0	.218	.109	.031	.212	.107	.031	.200	.103	.030	.189	.098	.029	.179	.094	.028		
7.0	.202	.100	.028	.197	.098	.028	.186	.094	.027	.176	.090	.026	.166	.086	.025		
8.0	.188	.092	.026	.183	.090	.025	.173	.086	.025	.164	.083	.024	.155	.080	.023		
9.0	.176	.085	.024	.171	.083	.023	.162	.080	.023	.153	.077	.022	.145	.074	.021		
10.0	.165	.079	.022	.160	.077	.022	.152	.075	.021	.144	.072	.020	.137	.069	.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	.277	.277	.277	.237	.237	.237	.162	.162	.162	.093	.093	.093	.030	.030	.030	
1.0	.271	.243	.218	.231	.209	.188	.158	.144	.130	.091	.083	.076	.029	.027	.024	
2.0	.263	.220	.183	.225	.189	.158	.155	.131	.110	.089	.076	.065	.029	.025	.021	
3.0	.256	.203	.161	.219	.175	.139	.151	.122	.098	.087	.071	.058	.028	.023	.019	
4.0	.248	.190	.146	.213	.164	.127	.146	.114	.089	.085	.067	.053	.027	.022	.017	
5.0	.241	.180	.135	.207	.156	.118	.142	.109	.083	.082	.064	.049	.027	.021	.016	
6.0	.233	.172	.128	.200	.149	.111	.138	.104	.079	.080	.061	.047	.026	.020	.015	
7.0	.226	.165	.122	.195	.143	.107	.135	.100	.076	.078	.059	.045	.025	.019	.015	
8.0	.220	.160	.118	.189	.138	.103	.131	.097	.073	.076	.057	.044	.025	.019	.014	
9.0	.214	.155	.115	.184	.134	.100	.127	.094	.071	.074	.056	.042	.024	.018	.014	
10.0	.208	.151	.112	.179	.131	.098	.124	.092	.070	.072	.054	.042	.024	.018	.014	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Water
Test Date:2024-10-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-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:0.2886A P:20.640W PF:0.5957 Freq:60.00Hz Lamp Flux:1710.78x1 lm										
NAME: ASD-OLWS-23-14D20SM-RGBW-BK					TYPE: N/A			WEIGHT: N/A		
SPEC.: 6500K					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	15.6	17.0	16.0	17.4	17.9	17.3	18.7	17.7	19.1	19.6
3H	16.9	18.2	17.3	18.6	19.1	19.4	20.7	19.9	21.2	21.6
4H	17.3	18.5	17.8	19.0	19.5	20.5	21.7	21.0	22.2	22.7
6H	17.5	18.7	18.0	19.2	19.7	21.6	22.7	22.1	23.2	23.7
8H	17.5	18.6	18.0	19.1	19.7	22.1	23.3	22.6	23.7	24.3
12H	17.5	18.6	18.0	19.1	19.6	22.8	23.9	23.3	24.4	24.9
4H 2H	16.5	17.7	17.0	18.2	18.7	17.8	19.0	18.3	19.5	20.0
3H	18.0	19.1	18.5	19.6	20.1	20.1	21.2	20.6	21.7	22.2
4H	18.5	19.5	19.1	20.1	20.6	21.4	22.4	21.9	22.9	23.4
6H	18.9	19.8	19.5	20.3	20.9	22.6	23.5	23.2	24.1	24.7
8H	18.9	19.8	19.5	20.3	21.0	23.3	24.2	23.9	24.7	25.3
12H	18.9	19.7	19.5	20.3	20.9	24.1	24.9	24.7	25.4	26.1
8H 4H	19.2	20.0	19.8	20.6	21.2	21.6	22.4	22.2	23.0	23.6
6H	19.8	20.5	20.4	21.1	21.7	23.1	23.8	23.7	24.4	25.1
8H	20.0	20.6	20.6	21.2	21.9	24.0	24.6	24.6	25.2	25.9
12H	20.0	20.6	20.7	21.2	21.9	25.0	25.5	25.6	26.2	26.9
12H 4H	19.4	20.1	20.0	20.7	21.4	21.6	22.3	22.2	22.9	23.6
6H	20.1	20.7	20.7	21.3	22.0	23.2	23.8	23.8	24.4	25.1
8H	20.4	20.9	21.0	21.6	22.3	24.1	24.7	24.8	25.3	26.0
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 / - 0.2				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117, 1711 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.9)
Area: 0.0726 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Water
Test Date:2024-10-23

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.06V I:0.2886A P:20.640W PF:0.5957 Freq:60.00Hz Lamp Flux:1710.78x1 lm		
NAME: ASD-OLWS-23-14D20SM-RGBW-BK	TYPE: N/A	WEIGHT: N/A
SPEC.:6500K	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

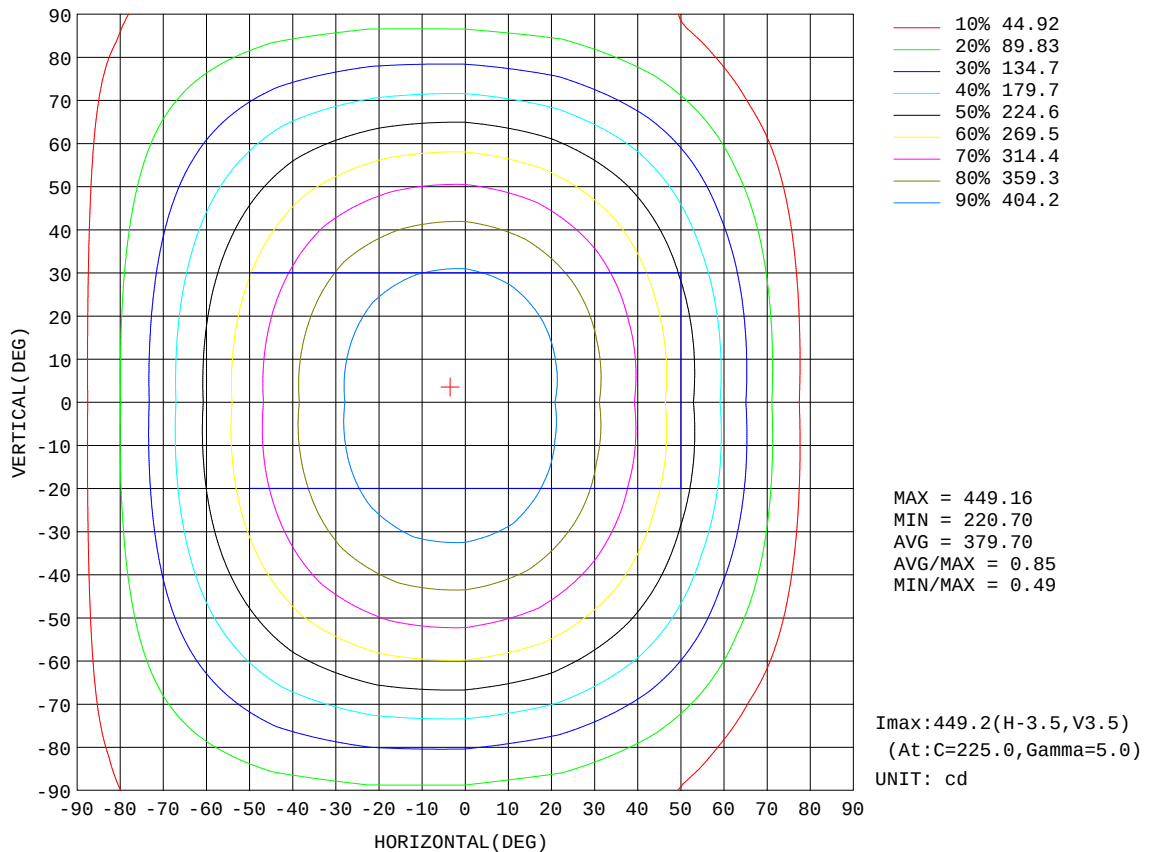
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	51	39	32	50	39	32	49	38	32	25
0.80	61	48	41	60	48	40	57	47	40	32
1.00	69	57	49	67	56	48	64	57	47	39
1.25	76	64	56	74	63	56	70	61	54	46
1.50	81	70	62	79	68	61	75	66	59	50
2.00	88	78	71	86	76	69	81	73	67	57
2.50	93	83	76	90	81	75	84	77	72	61
3.00	96	88	81	93	86	80	87	81	76	65
4.00	101	94	88	97	91	86	91	86	82	69
5.00	103	97	92	100	94	90	93	89	85	72
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:25.2DEG
Operators:Water
Test Date:2024-10-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.06V I:0.2886A P:20.640W PF:0.5957 Freq:60.00Hz Lamp Flux:1710.78x1 lm		
NAME: ASD-OLWS-23-14D20SM-RGBW-BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 6500K	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

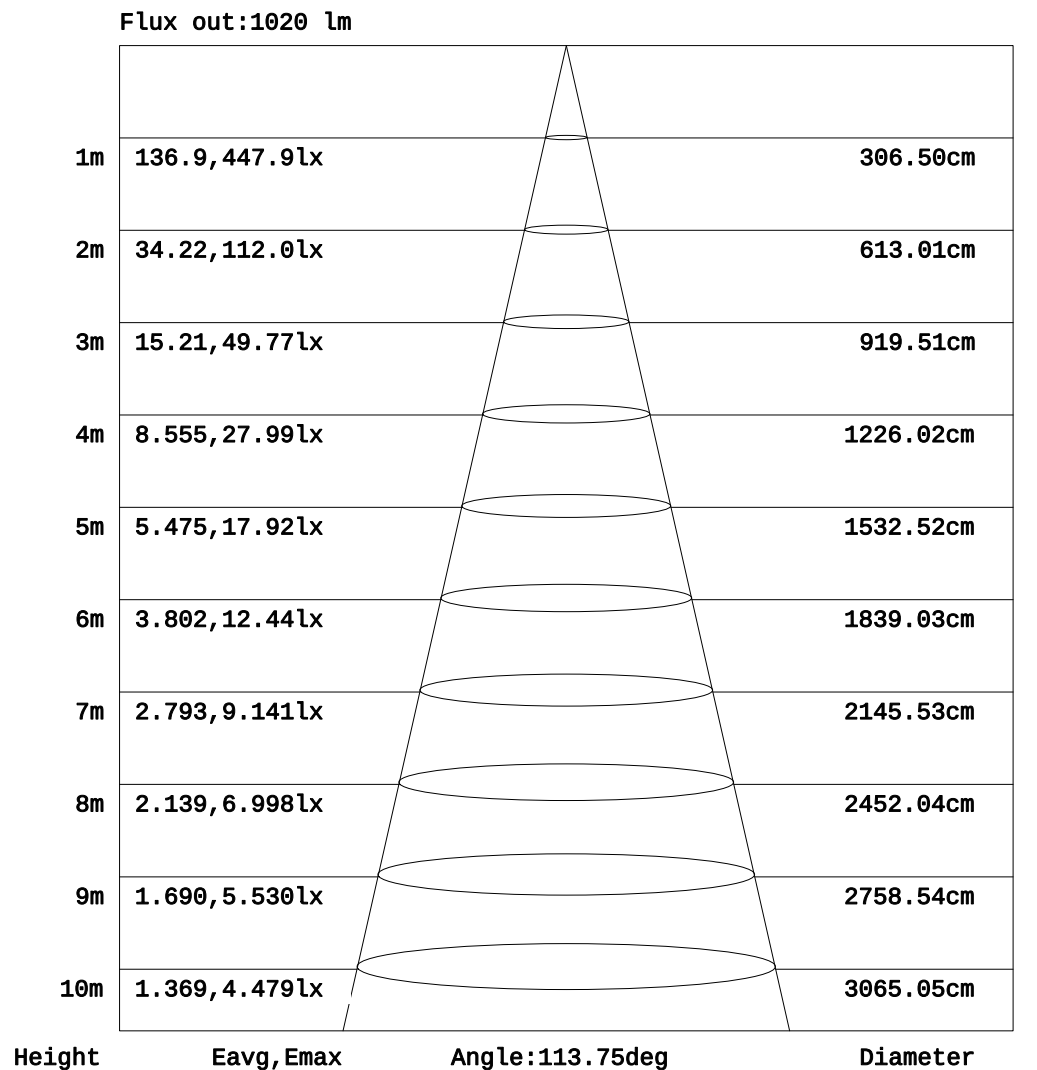


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.2DEG
Operators: Water
Test Date: 2024-10-23

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity: 47%
Test Distance: 2.519m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.06V I:0.2886A P:20.640W PF:0.5957 Freq:60.00Hz Lamp Flux:1710.78x1 lm		
NAME:ASD-OLWS-23-14D20SM-RGBW-BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 6500K	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A



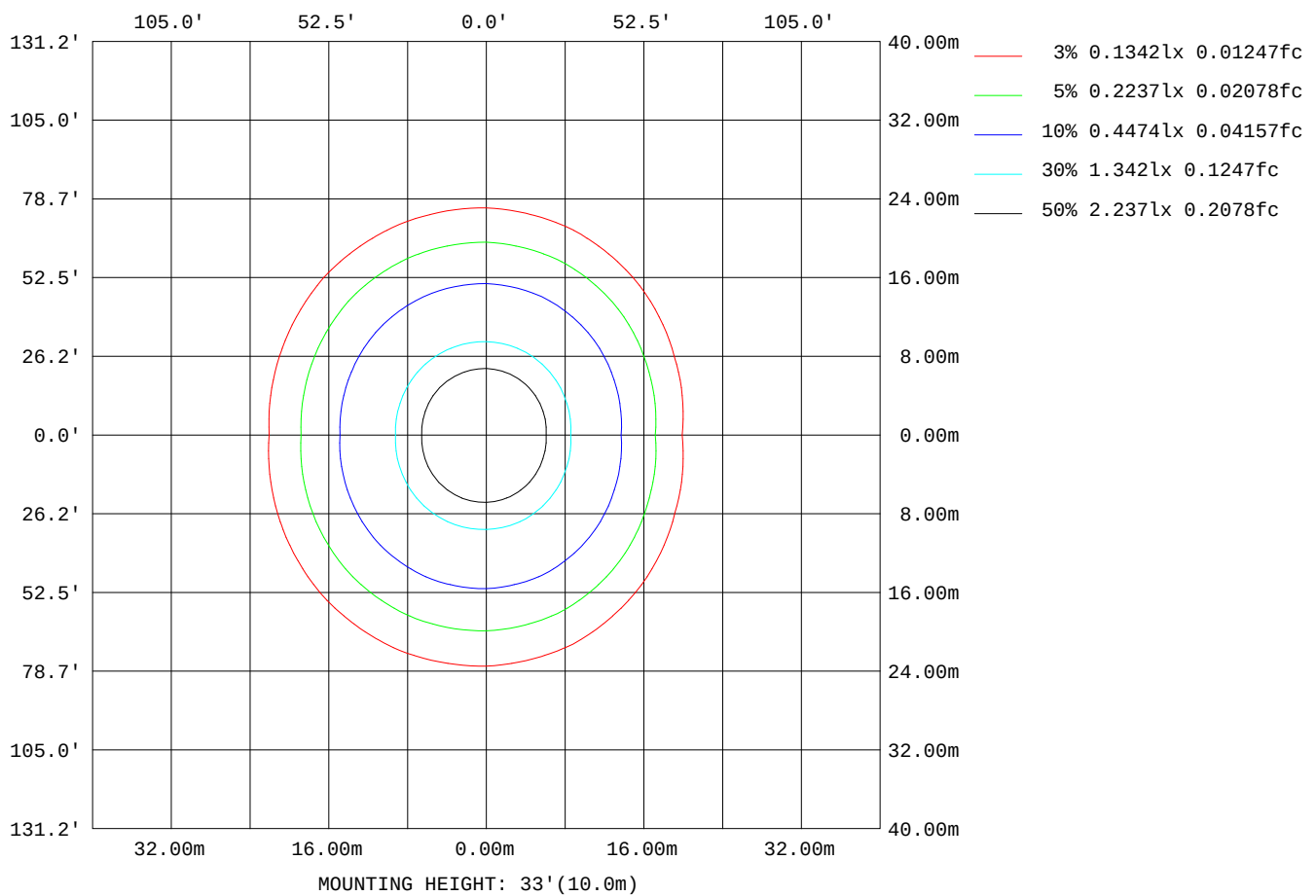
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Water
Test Date:2024-10-23

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.06V I:0.2886A P:20.640W PF:0.5957 Freq:60.00Hz Lamp Flux:1710.78x1 lm		
NAME: ASD-OLWS-23-14D20SM-RGBW-BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 6500K	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:25.2DEG
 Operators:Water
 Test Date:2024-10-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-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:0.2886A P:20.640W PF:0.5957 Freq:60.00Hz Lamp Flux:1710.78x1 lm		
NAME: ASD-OLWS-23-14D20SM-RGBW-BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 6500K	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

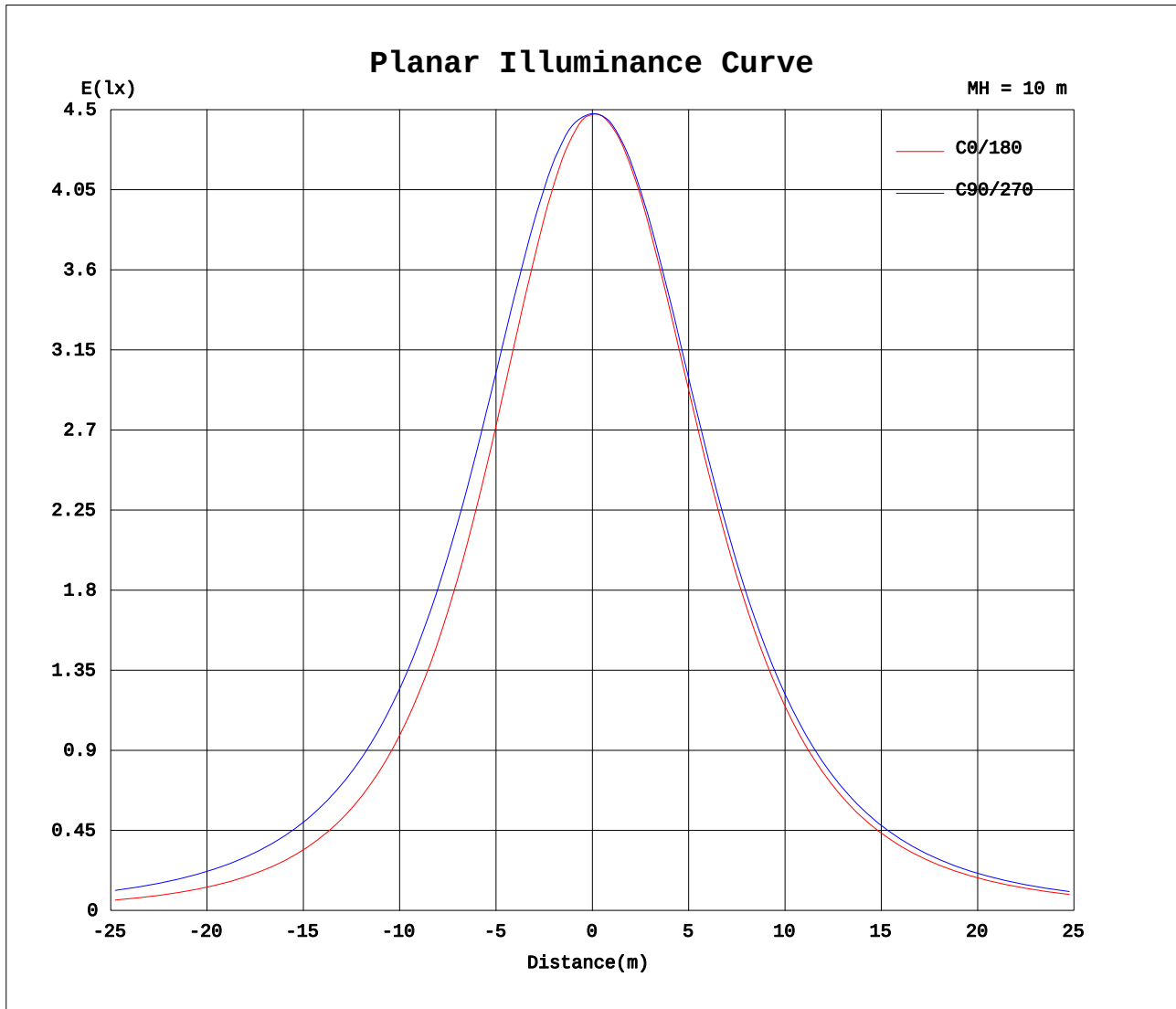
AvgL	cd/m2
L_0~180(65)av	5379
L_0~180(75)av	4909
L_0~180(85)av	4876
L_90~270(65)av	7497
L_90~270(75)av	8664
L_90~270(85)av	16254
L_45(65)av	6781
L_45(75)av	7425
L_45(85)av	12834

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Water
Test Date:2024-10-23

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-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: 25.2DEG
 Operators: Water
 Test Date: 2024-10-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-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:0.2886A P:20.640W PF:0.5957 Freq:60.00Hz Lamp Flux:1710.78x1 lm		
NAME: ASD-OLWS-23-14D20SM-RGBW-BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 6500K	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	448	448	448	448	448	448	448	448	448	448	448	448	448	448	448	448			
5	444	444	445	447	448	448	448	447	448	449	449	449	449	448	447	445			
10	436	437	441	445	447	448	447	445	445	446	448	448	447	445	442	439			
15	423	426	433	440	443	444	443	440	439	440	443	443	442	438	434	428			
20	408	412	422	432	436	438	436	431	428	431	434	436	434	429	422	414			
25	388	395	408	420	426	428	425	419	414	418	423	424	422	416	407	396			
30	365	375	390	405	413	415	411	404	396	402	408	409	407	400	389	375			
35	339	351	369	386	395	398	394	384	375	383	390	392	389	381	367	351			
40	310	324	345	365	375	378	373	362	352	360	368	371	368	359	343	324			
45	279	294	319	341	352	355	350	337	325	334	344	347	344	333	316	294			
50	245	263	290	314	326	330	324	309	296	306	317	320	317	306	286	262			
55	210	229	259	286	298	302	295	279	264	275	287	291	288	276	255	228			
60	173	194	226	254	268	272	264	247	230	242	256	260	257	244	222	193			
65	135	158	192	222	236	239	231	213	195	208	222	227	224	211	187	157			
70	97.9	121	158	188	203	206	197	178	159	173	188	193	190	177	152	121			
75	61.9	86.3	124	155	169	172	163	144	123	138	154	159	157	144	118	85.6			
80	28.5	54.4	92.8	123	137	140	131	110	89.2	105	121	127	125	114	88.1	53.8			
85	3.16	29.2	68.3	96.1	108	109	100	79.6	58.6	74.2	91.4	98.9	97.3	88.1	64.7	29.8			
90	0.18	20.1	50.8	74.6	85.4	85.6	76.9	56.8	35.2	53.5	72.7	82.0	81.2	72.8	50.6	21.3			
95	0.29	18.1	47.6	70.8	81.4	80.9	72.4	52.8	25.0	49.9	68.8	78.0	77.8	69.5	47.8	19.3			
100	0.70	16.5	45.0	67.2	77.5	76.4	68.1	49.0	23.8	46.0	64.4	73.5	73.9	66.0	45.0	17.5			
105	0.92	14.8	42.2	63.5	73.2	71.5	63.6	44.3	22.9	41.2	59.7	68.3	69.4	61.6	41.9	15.3			
110	0.95	12.5	39.0	59.5	68.4	66.0	58.1	38.2	21.4	35.1	54.5	62.4	64.6	57.1	38.1	12.8			
115	1.03	9.83	35.2	54.8	63.1	59.8	52.3	31.4	19.5	28.3	48.6	55.9	59.4	52.2	34.2	9.89			
120	0.98	6.82	31.2	49.4	57.2	53.1	45.7	24.9	17.5	21.7	41.9	49.0	53.6	46.7	30.1	6.80			
125	1.02	3.81	26.9	43.8	51.0	46.4	38.3	18.8	15.2	14.9	34.5	41.9	47.3	41.0	25.5	3.52			
130	0.71	1.55	22.2	37.8	44.3	39.7	30.3	12.9	12.7	10.9	26.5	35.5	40.8	35.1	20.3	1.84			
135	0.95	1.53	17.0	31.3	37.5	33.3	22.4	8.32	9.98	8.31	18.2	28.6	33.9	28.7	14.7	2.02			
140	1.14	1.61	11.3	24.6	30.3	26.4	14.2	5.94	7.31	5.77	9.92	21.3	26.2	21.5	8.59	2.03			
145	1.59	1.90	5.52	17.6	22.5	18.7	7.08	3.49	4.57	3.47	3.10	13.6	18.2	13.8	3.15	2.07			
150	1.63	2.17	2.47	9.96	13.9	10.5	1.87	1.52	1.93	1.91	1.92	6.11	9.71	6.31	1.96	2.12			
155	1.99	2.34	2.55	2.93	5.26	2.85	1.90	1.45	0.83	1.25	1.92	2.48	2.24	2.29	2.14	1.88			
160	2.26	2.53	2.56	2.65	2.56	2.26	2.02	1.72	0.98	1.29	1.84	2.02	2.10	2.18	2.03	1.96			
165	1.64	2.46	2.49	2.54	2.52	2.19	1.92	1.93	1.31	1.37	1.52	1.87	1.88	2.06	1.95	1.64			
170	1.49	1.51	2.12	2.36	2.22	2.10	1.77	1.53	1.10	1.10	1.53	1.72	1.72	1.83	1.52	1.09			
175	1.46	1.47	1.54	1.95	1.89	1.54	1.52	1.50	1.25	1.19	1.21	1.24	1.58	1.79	1.47	1.18			
180	1.88	1.87	1.57	1.35	1.36	1.34	1.72	1.91	1.88	1.87	1.57	1.35	1.36	1.33	1.72	1.91			

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C Interval: 22.5DEG
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