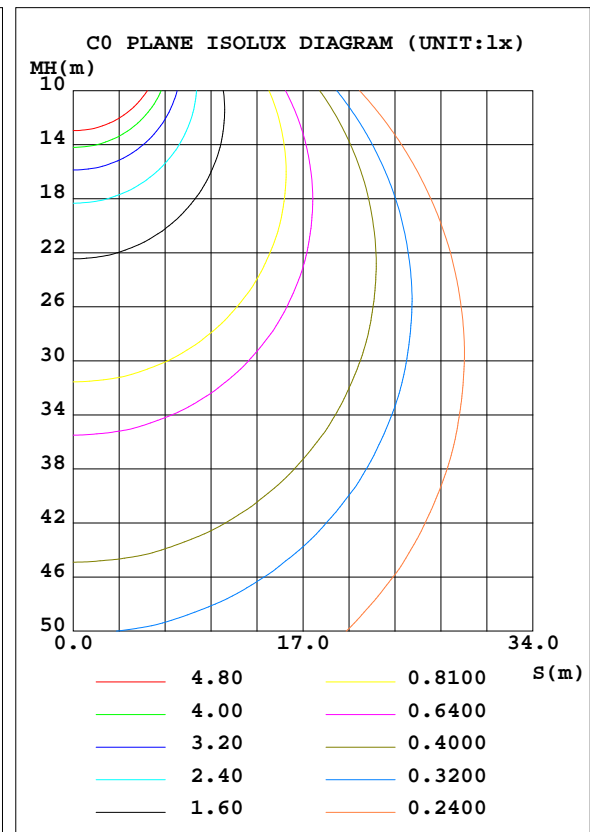
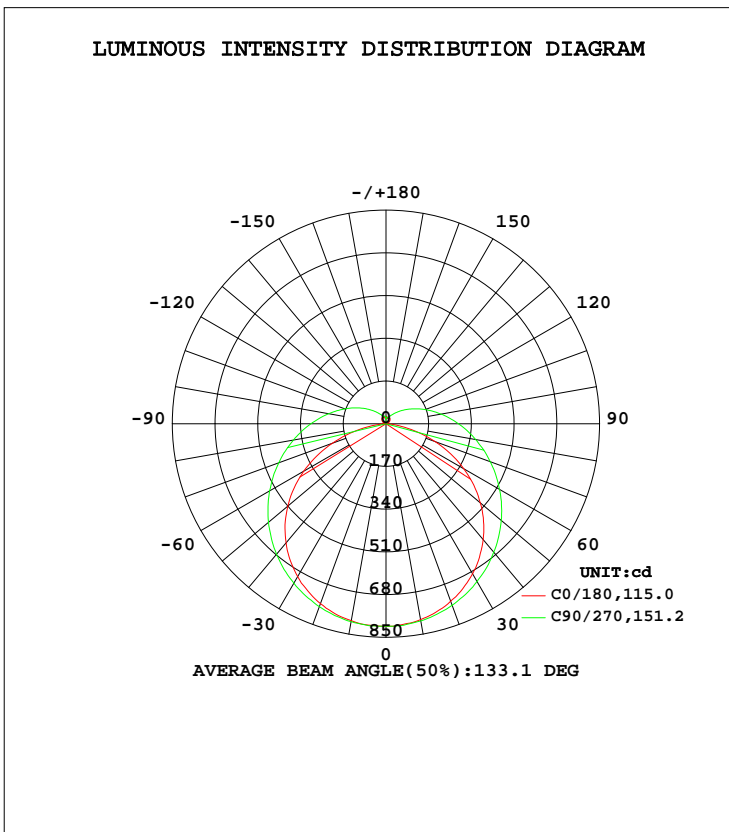


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.07V I:0.3186A P:35W PF:0.9181 Freq:60.00Hz Lamp Flux:2975x1 lm		
NAME: ASD-LVF21-48D35CC-NK 3000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 85 lm/W			
MODEL ASD-LVF21-48D35CC-NK 3000K		Imax(cd)	807.3	S/MH(C0/180)	1.27
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.34
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2975	η UP, DN(C0-180)	7.3,43.3
NOMINAL FLUX(lm)	2975	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	6.9,42.4
LAMPS INSIDE	1	η up(%)	14.2	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	85.8	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.6DEG
 Operators:Hill
 Test Date:2022-05-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:44%
 Test Distance:2.526m [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	795.9	798.6	799.7	795.7	791.9	792.3	796.8	795.3	0- 10	76.45	76.45	2.24,2.24
20	761.7	769.4	775.0	764.8	751.9	759.7	768.9	763.7	10- 20	221.1	297.6	8.71,8.71
30	702.9	720.6	732.7	713.4	689.3	706.9	724.9	711.3	20- 30	341.8	639.4	18.7,18.7
40	618.3	652.8	678.0	643.2	601.9	635.4	667.1	642.1	30- 40	425.6	1065	31.2,31.2
50	510.2	569.1	610.2	559.3	490.4	549.6	598.9	557.8	40- 50	463.9	1529	44.8,44.8
60	378.1	474.3	534.7	465.7	357.2	455.4	521.7	462.8	50- 60	453.9	1983	58,58
70	227.3	376.5	453.7	369.1	208.0	358.1	441.4	365.8	60- 70	400.4	2383	69.8,69.8
80	77.98	283.0	374.2	278.1	63.81	267.1	362.6	275.0	70- 80	317.3	2701	79.1,79.1
90	1.418	203.4	299.0	201.3	0.1583	191.3	288.8	198.0	80- 90	229.4	2930	85.8,85.8
100	1.957	142.4	231.8	141.8	2.178	132.3	223.2	138.4	90-100	162.9	3093	90.5,90.5
110	8.006	98.57	174.3	99.00	8.413	90.56	166.0	94.70	100-110	114.0	3207	93.9,93.9
120	14.62	68.98	126.9	70.02	14.79	62.72	118.6	65.45	110-120	77.83	3285	96.1,96.1
130	20.66	49.35	89.53	50.47	20.50	44.53	82.26	46.37	120-130	51.86	3337	97.7,97.7
140	25.80	37.47	61.90	38.19	25.32	33.34	55.46	35.09	130-140	33.86	3370	98.7,98.7
150	28.29	31.40	42.82	31.81	26.76	26.27	37.91	30.08	140-150	21.88	3392	99.3,99.3
160	26.16	29.59	32.51	28.13	24.66	22.99	28.25	27.68	150-160	13.71	3406	99.7,99.7
170	25.11	29.62	31.39	24.85	25.32	24.50	24.79	28.71	160-170	7.665	3414	99.9,99.9
180	29.90	28.86	12.39	27.83	29.34	28.86	25.09	25.28	170-180	2.578	3416	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1295.2 lm

%lum = 37.9%

%lamp = 37.9%

Conical surface Flux(120deg): 1982.8 lm

%lum = 58.0%

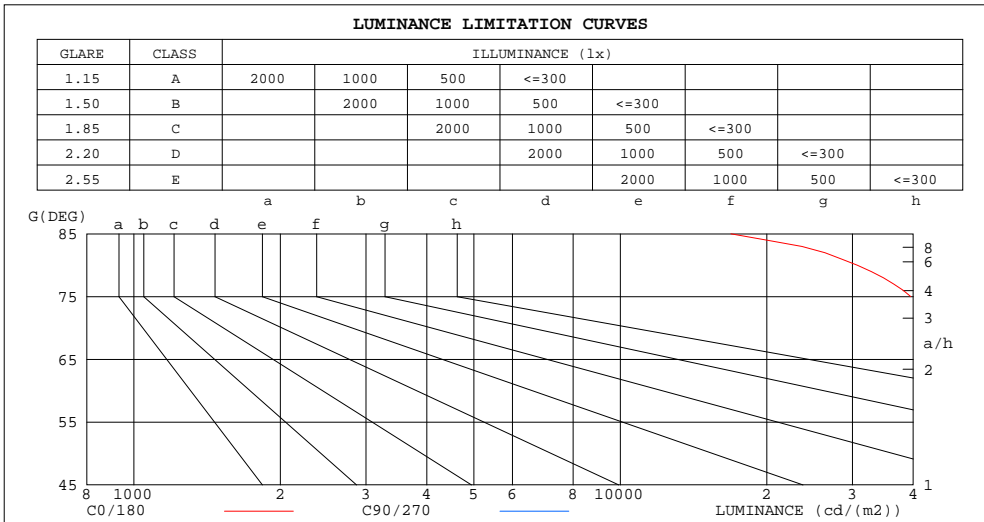
%lamp = 58.0%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.6DEG
 Operators:Hill
 Test Date:2022-05-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:44%
 Test Distance:2.526m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.07V I:0.3186A P:35W PF:0.9181 Freq:60.00Hz Lamp Flux:2975x1 lm		
NAME: ASD-LVF21-48D35CC-NK 3000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	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	16888	262946
80	30685	147054
75	39533	109108
70	45416	90515
65	49106	79962
60	51672	72979
55	53233	68158
50	54227	64780
45	54905	62232

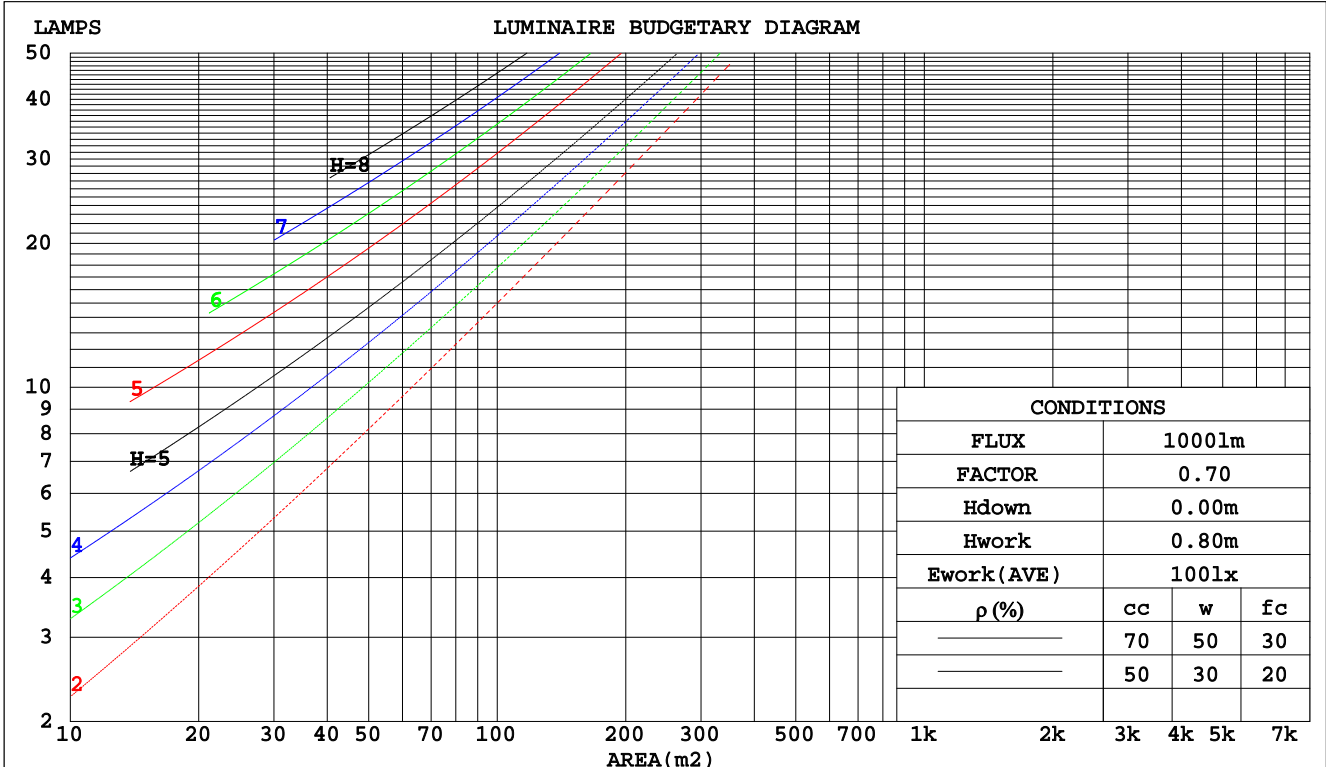
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators: Hill
 Test Date: 2022-05-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity: 44%
 Test Distance: 2.526m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.07V I:0.3186A P:35W PF:0.9181 Freq:60.00Hz Lamp Flux:2975x1 lm		
NAME: ASD-LVF21-48D35CC-NK 3000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	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																0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	1.16	1.16	1.16	1.11	1.11	1.11	1.03	1.03	1.03	.96	.96	.96	.89	.89	.89	.86
1.0	.97	.92	.87	.93	.89	.84	.86	.83	.79	.80	.77	.74	.74	.72	.69	.66
2.0	.83	.75	.69	.80	.73	.67	.74	.68	.63	.69	.64	.60	.63	.60	.56	.53
3.0	.72	.63	.56	.69	.61	.55	.64	.58	.52	.60	.54	.49	.55	.51	.47	.44
4.0	.63	.54	.47	.61	.52	.46	.57	.49	.44	.53	.46	.41	.49	.44	.39	.37
5.0	.56	.47	.40	.54	.46	.39	.51	.43	.37	.47	.41	.35	.44	.38	.34	.31
6.0	.50	.41	.34	.49	.40	.34	.45	.38	.32	.42	.36	.31	.40	.34	.29	.27
7.0	.46	.36	.30	.44	.36	.29	.41	.34	.28	.38	.32	.27	.36	.30	.26	.24
8.0	.41	.33	.27	.40	.32	.26	.38	.30	.25	.35	.29	.24	.33	.27	.23	.21
9.0	.38	.29	.24	.37	.29	.23	.34	.27	.22	.32	.26	.22	.30	.25	.21	.19
10.0	.35	.27	.21	.34	.26	.21	.32	.25	.20	.30	.24	.20	.28	.23	.19	.17



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.6DEG
 Operators:Hill
 Test Date:2022-05-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:44%
 Test Distance:2.526m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.07V I:0.3186A P:35W PF:0.9181 Freq:60.00Hz Lamp Flux:2975x1 lm		
NAME: ASD-LVF21-48D35CC-NK 3000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	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	.376	.214	.068	.364	.208	.066	.343	.197	.063	.323	.186	.060	.305	.177	.057	
2.0	.329	.180	.055	.319	.175	.054	.299	.166	.052	.281	.158	.049	.264	.150	.047	
3.0	.294	.156	.047	.284	.152	.046	.267	.145	.044	.251	.137	.042	.235	.130	.040	
4.0	.265	.138	.041	.257	.134	.040	.241	.128	.038	.226	.121	.037	.212	.115	.035	
5.0	.242	.123	.036	.234	.120	.035	.220	.114	.034	.206	.109	.032	.194	.103	.031	
6.0	.222	.111	.032	.215	.109	.031	.202	.103	.030	.189	.098	.029	.178	.094	.028	
7.0	.205	.101	.029	.198	.099	.028	.186	.094	.027	.175	.090	.026	.165	.086	.025	
8.0	.190	.093	.026	.184	.091	.026	.173	.087	.025	.163	.083	.024	.153	.079	.023	
9.0	.177	.086	.024	.172	.084	.024	.162	.080	.023	.152	.076	.022	.144	.073	.021	
10.0	.166	.080	.022	.161	.078	.022	.152	.074	.021	.143	.071	.020	.135	.068	.019	

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	.299	.299	.299	.255	.255	.255	.174	.174	.174	.100	.100	.100	.032	.032	.032	
1.0	.294	.265	.238	.252	.227	.205	.172	.156	.142	.099	.091	.083	.032	.029	.027	
2.0	.287	.242	.204	.246	.208	.176	.169	.144	.123	.097	.084	.072	.031	.027	.023	
3.0	.280	.225	.182	.240	.194	.157	.165	.135	.110	.095	.079	.065	.031	.026	.021	
4.0	.272	.212	.167	.233	.184	.145	.160	.128	.102	.093	.075	.060	.030	.024	.020	
5.0	.264	.203	.157	.227	.175	.137	.156	.122	.096	.091	.072	.057	.029	.023	.019	
6.0	.257	.195	.150	.221	.168	.130	.152	.118	.092	.088	.069	.055	.029	.023	.018	
7.0	.250	.188	.145	.215	.163	.126	.148	.114	.089	.086	.067	.053	.028	.022	.018	
8.0	.243	.182	.141	.209	.158	.123	.145	.111	.087	.084	.065	.052	.027	.021	.017	
9.0	.237	.177	.137	.204	.154	.120	.141	.108	.085	.082	.064	.051	.027	.021	.017	
10.0	.231	.173	.135	.199	.150	.118	.138	.106	.084	.081	.063	.050	.026	.021	.017	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.6DEG
 Operators:Hill
 Test Date:2022-05-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:44%
 Test Distance:2.526m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.07V I:0.3186A P:35W PF:0.9181 Freq:60.00Hz Lamp Flux:2975x1 lm										
NAME: ASD-LVF21-48D35CC-NK 3000K					TYPE:N/A			WEIGHT:N/A		
SPEC.:N/A					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	21.4	22.8	21.9	23.3	23.8	22.8	24.2	23.2	24.6	25.1
3H	22.9	24.2	23.4	24.7	25.2	25.3	26.6	25.8	27.1	27.6
4H	23.5	24.7	24.0	25.2	25.8	26.7	27.9	27.2	28.4	29.0
6H	23.9	25.0	24.4	25.6	26.1	28.2	29.4	28.7	29.9	30.5
8H	24.0	25.1	24.5	25.6	26.2	29.0	30.2	29.6	30.7	31.3
12H	24.0	25.1	24.5	25.6	26.2	30.0	31.1	30.5	31.6	32.2
4H 2H	22.4	23.6	22.9	24.1	24.7	23.4	24.6	23.9	25.1	25.7
3H	24.2	25.3	24.7	25.8	26.4	26.1	27.2	26.7	27.8	28.4
4H	24.9	25.9	25.5	26.5	27.1	27.7	28.7	28.3	29.3	29.9
6H	25.5	26.4	26.1	27.0	27.6	29.4	30.3	30.0	30.9	31.6
8H	25.7	26.5	26.3	27.1	27.8	30.4	31.2	31.0	31.8	32.5
12H	25.8	26.5	26.4	27.1	27.9	31.5	32.3	32.1	32.9	33.6
8H 4H	25.8	26.7	26.4	27.3	28.0	28.1	28.9	28.7	29.5	30.2
6H	26.8	27.5	27.4	28.1	28.8	30.1	30.8	30.8	31.4	32.2
8H	27.1	27.8	27.8	28.4	29.2	31.3	31.9	31.9	32.6	33.3
12H	27.4	28.0	28.1	28.6	29.4	32.6	33.2	33.3	33.9	34.6
12H 4H	26.1	26.9	26.7	27.5	28.2	28.1	28.9	28.7	29.5	30.2
6H	27.3	27.9	27.9	28.5	29.3	30.2	30.9	30.9	31.5	32.3
8H	27.8	28.4	28.5	29.0	29.8	31.5	32.1	32.2	32.7	33.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117, 3416 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 4.3)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.6DEG
 Operators:Hill
 Test Date:2022-05-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:44%
 Test Distance:2.526m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.07V I:0.3186A P:35W PF:0.9181 Freq:60.00Hz Lamp Flux:2975x1 lm		
NAME: ASD-LVF21-48D35CC-NK 3000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

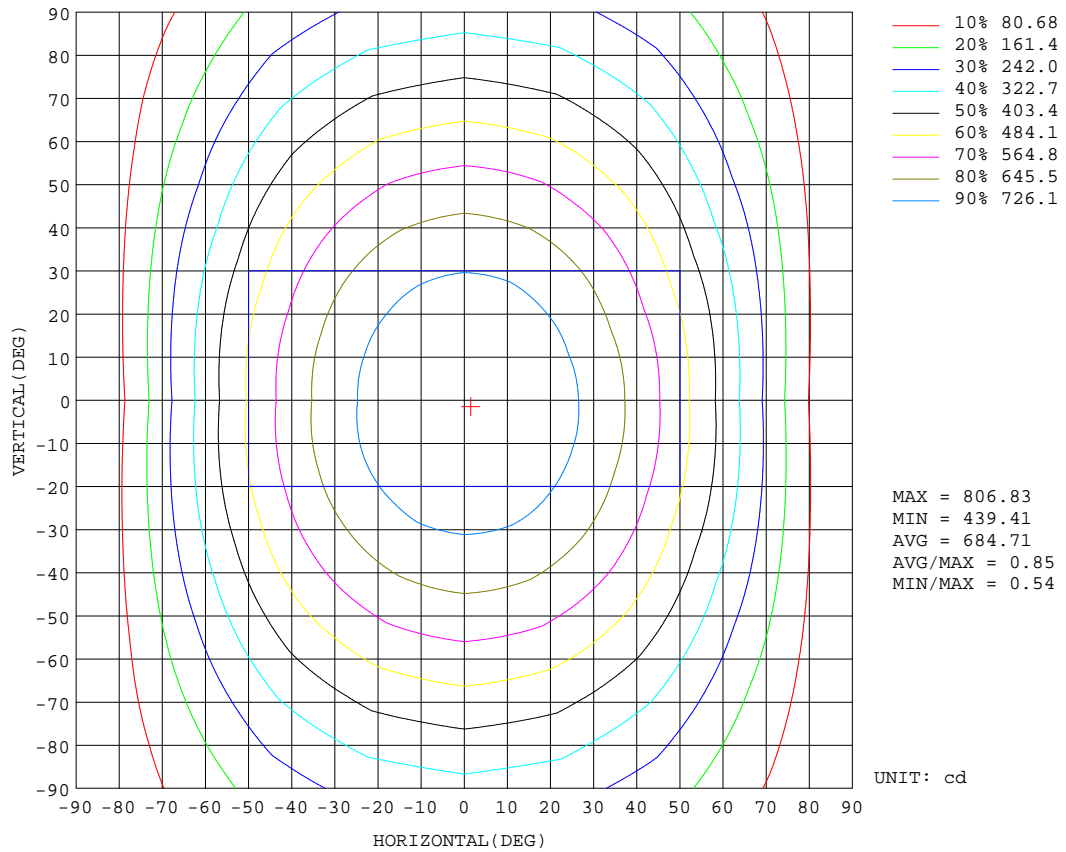
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	49	37	30	48	37	30	47	36	29	22
0.80	59	46	38	57	45	38	55	44	37	29
1.00	67	54	46	65	53	45	61	54	44	36
1.25	73	61	53	71	60	52	67	58	51	41
1.50	79	67	58	76	65	57	72	62	56	46
2.00	86	75	67	83	73	66	78	70	63	52
2.50	90	80	73	87	78	71	81	74	68	56
3.00	94	85	78	91	82	76	84	78	72	60
4.00	99	91	85	95	88	82	88	83	78	65
5.00	101	95	89	98	92	87	91	86	82	68
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:24.6DEG
 Operators:Hill
 Test Date:2022-05-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:44%
 Test Distance:2.526m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.07V I:0.3186A P:35W PF:0.9181 Freq:60.00Hz Lamp Flux:2975x1 lm		
NAME: ASD-LVF21-48D35CC-NK 3000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

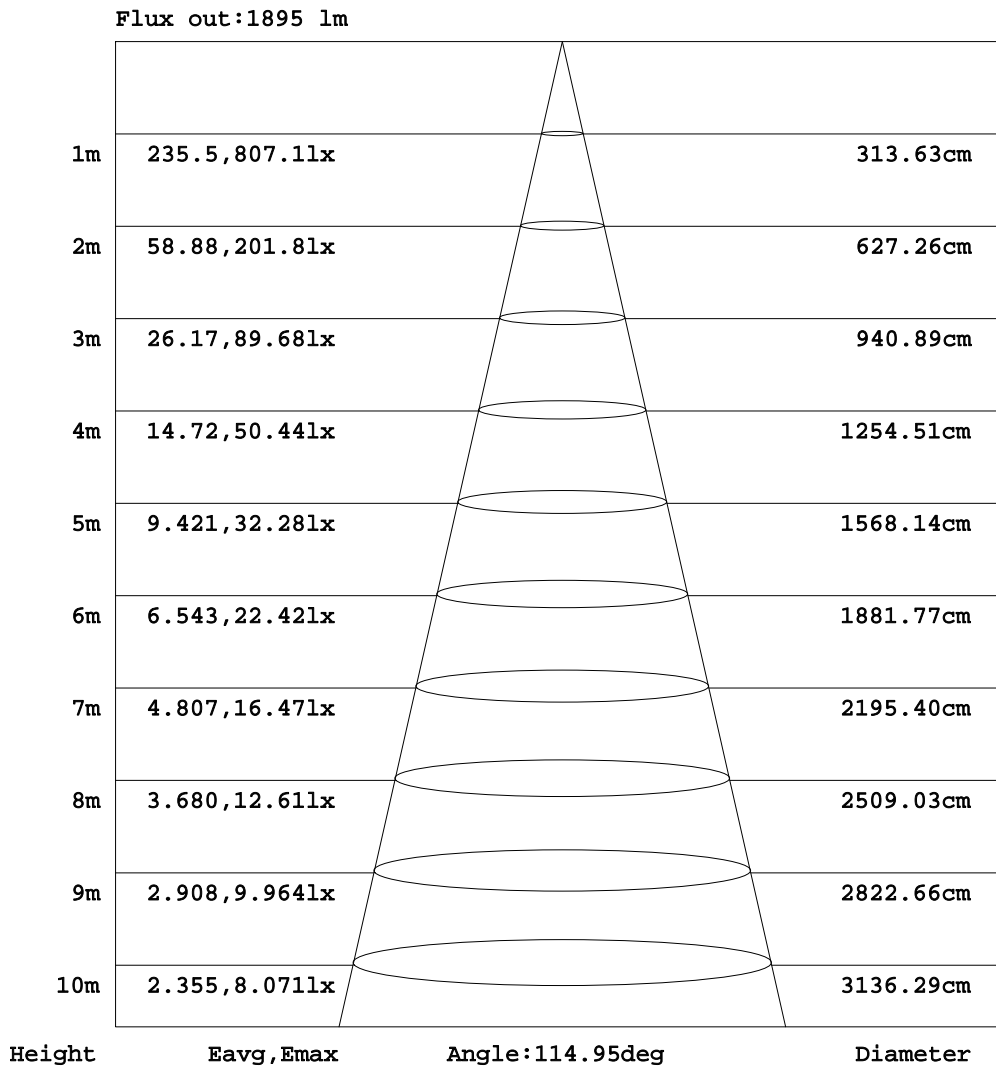


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.6DEG
 Operators:Hill
 Test Date:2022-05-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:44%
 Test Distance:2.526m [K=1.0000]
 Remarks:

AAI Figure

Test:U:120.07V I:0.3186A P:35W PF:0.9181 Freq:60.00Hz Lamp Flux:2975x1 lm		
NAME: ASD-LVF21-48D35CC-NK 3000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A



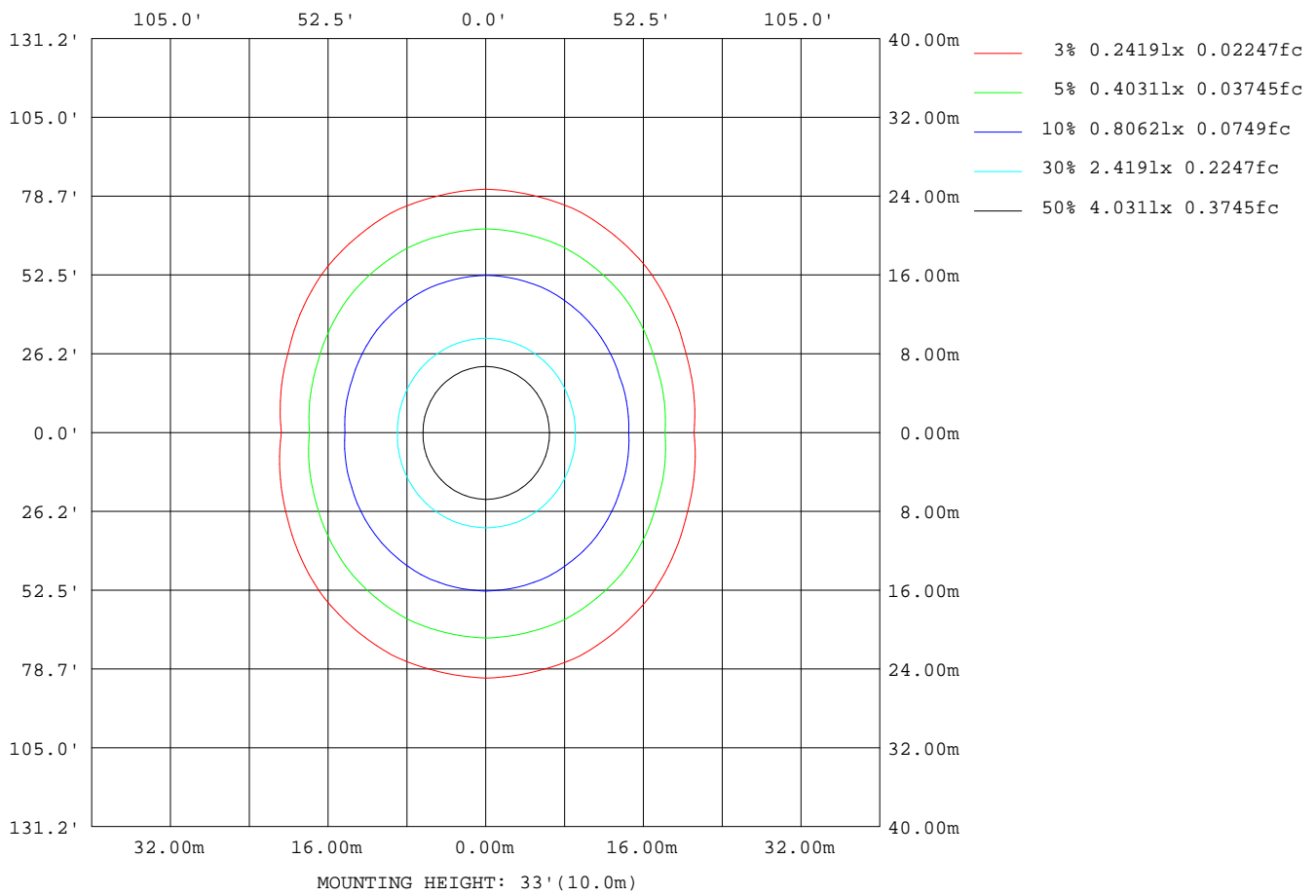
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.6DEG
 Operators:Hill
 Test Date:2022-05-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:44%
 Test Distance:2.526m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.07V I:0.3186A P:35W PF:0.9181 Freq:60.00Hz Lamp Flux:2975x1 lm		
NAME: ASD-LVF21-48D35CC-NK 3000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	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:24.6DEG
 Operators:Hill
 Test Date:2022-05-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:44%
 Test Distance:2.526m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:120.07V I:0.3186A P:35W PF:0.9181 Freq:60.00Hz Lamp Flux:2975x1 lm		
NAME: ASD-LVF21-48D35CC-NK 3000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

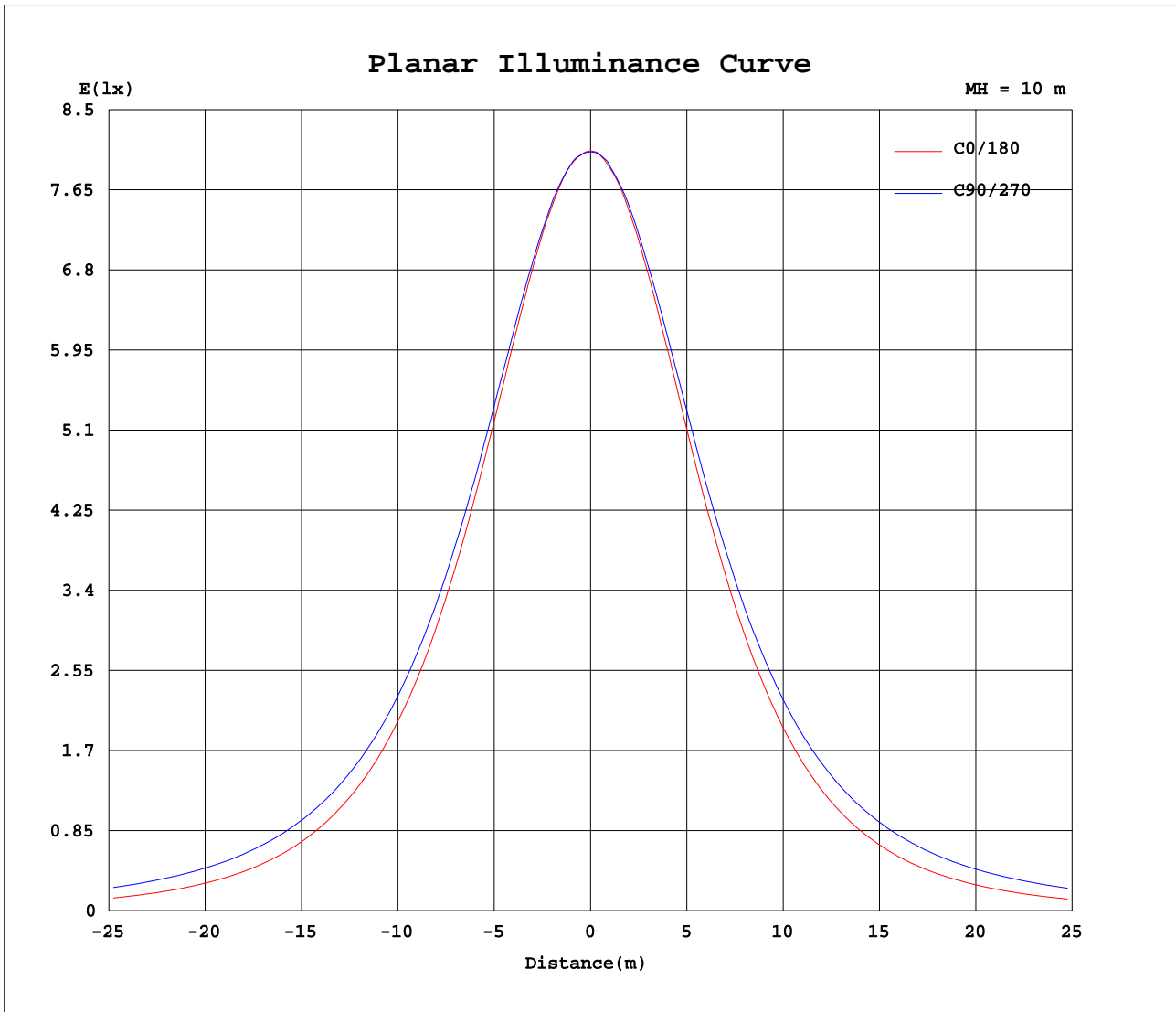
AvgL	cd/m2
L_0~180(65)av	47507
L_0~180(75)av	37202
L_0~180(85)av	15178
L_90~270(65)av	79012
L_90~270(75)av	107674
L_90~270(85)av	258877
L_45(65)av	67221
L_45(75)av	84531
L_45(85)av	184200

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.6DEG
Operators:Hill
Test Date:2022-05-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:44%
Test Distance:2.526m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.6DEG
 Operators: Hill
 Test Date: 2022-05-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity: 44%
 Test Distance: 2.526m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.07V I:0.3186A P:35W PF:0.9181 Freq:60.00Hz Lamp Flux:2975x1 lm		
NAME: ASD-LVF21-48D35CC-NK 3000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	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	806	806	806	806	806	806	806	806	806	806	806	806	806	806	806	806			
5	804	806	804	805	806	802	803	803	801	803	802	802	805	802	802	802			
10	796	797	799	798	800	797	796	795	792	793	792	795	797	794	795	795			
15	783	784	786	789	790	786	783	778	775	777	780	782	785	783	782	780			
20	762	765	769	773	775	770	765	759	752	756	760	765	769	767	764	761			
25	735	740	748	753	756	750	741	732	724	728	735	744	749	746	740	733			
30	703	709	721	731	733	726	713	700	689	695	707	720	725	721	711	701			
35	664	673	688	703	708	697	681	663	648	657	673	689	698	692	679	664			
40	618	630	653	671	678	666	643	620	602	613	635	659	667	660	642	621			
45	568	583	612	637	645	631	604	571	549	564	595	622	634	625	601	573			
50	510	531	569	600	610	593	559	519	490	511	550	584	599	587	558	521			
55	447	473	523	561	573	555	514	462	427	453	504	545	561	547	511	463			
60	378	413	474	520	535	514	466	402	357	393	455	503	522	507	463	403			
65	304	351	426	477	495	472	417	341	284	331	407	461	482	464	414	341			
70	227	287	376	435	454	431	369	280	208	269	358	419	441	423	366	279			
75	150	226	328	394	414	388	323	221	132	210	312	378	402	381	319	220			
80	78.0	170	283	352	374	348	278	168	63.8	157	267	337	363	340	275	166			
85	21.5	123	241	313	336	310	238	123	17.2	112	227	299	325	303	234	120			
90	1.42	87.4	203	276	299	273	201	88.9	0.16	79.0	191	263	289	267	198	86.6			
95	0.46	62.4	171	241	264	239	169	64.4	0.48	56.3	160	230	255	233	167	62.7			
100	1.96	45.7	142	210	232	208	142	48.0	2.18	41.7	132	199	223	202	138	46.4			
105	4.83	35.9	118	181	202	179	119	38.0	5.10	32.7	110	171	194	173	114	36.3			
110	8.01	29.9	98.6	155	174	154	99.0	31.8	8.41	27.3	90.6	146	166	148	94.7	29.9			
115	11.4	26.4	82.2	131	149	131	83.1	28.1	11.7	24.1	75.3	122	141	124	78.5	26.1			
120	14.6	24.5	69.0	111	127	111	70.0	25.8	14.8	22.4	62.7	103	119	104	65.5	23.7			
125	17.8	23.6	58.1	93.2	107	93.5	59.2	24.6	17.7	21.8	52.7	85.6	98.9	86.9	54.9	22.4			
130	20.7	23.4	49.4	78.2	89.5	78.4	50.5	24.2	20.5	21.5	44.5	71.0	82.3	72.3	46.4	22.0			
135	23.3	23.6	42.6	65.3	74.7	65.7	43.6	24.2	23.1	21.4	38.1	58.6	67.7	59.8	39.7	22.1			
140	25.8	24.0	37.5	54.2	61.9	54.7	38.2	24.5	25.3	22.1	33.3	48.1	55.5	49.8	35.1	22.5			
145	27.9	25.2	33.9	45.7	51.1	46.5	34.6	25.2	27.1	23.5	29.4	39.8	45.4	42.0	32.0	24.0			
150	28.3	27.1	31.4	39.2	42.8	39.5	31.8	25.7	26.8	24.9	26.3	33.5	37.9	36.3	30.1	25.6			
155	27.5	28.6	29.6	34.6	36.8	34.7	29.9	25.3	25.9	23.4	26.1	28.8	32.2	32.0	28.4	27.1			
160	26.2	28.9	29.6	31.2	32.5	31.3	28.1	25.0	24.7	23.9	23.0	26.8	28.2	28.5	27.7	28.2			
165	24.3	28.0	30.3	30.4	30.3	29.9	25.3	24.3	22.7	22.5	22.3	23.5	28.0	28.6	29.1	28.8			
170	25.1	28.8	29.6	31.0	31.4	26.9	24.8	25.4	25.3	25.2	24.5	23.7	24.8	30.1	28.7	28.8			
175	27.4	27.4	29.4	28.7	26.8	22.9	26.7	27.8	28.0	28.0	27.7	26.5	22.3	23.6	28.3	28.5			
180	29.9	29.0	28.9	23.8	12.4	24.6	27.8	30.0	29.3	29.4	28.9	28.4	25.1	19.9	25.3	27.9			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
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 Operators:Hill
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