

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P334998

Luminaire Tested: **S125IP-S1035U940-4F0-1E-UDD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125IP-S1035U940-4F0-1E-UDD-4
Description: DEFINE 5 INDIRECT LED LUMINAIRE, BATWING OPTIC
PENDANT MOUNT, 1035 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

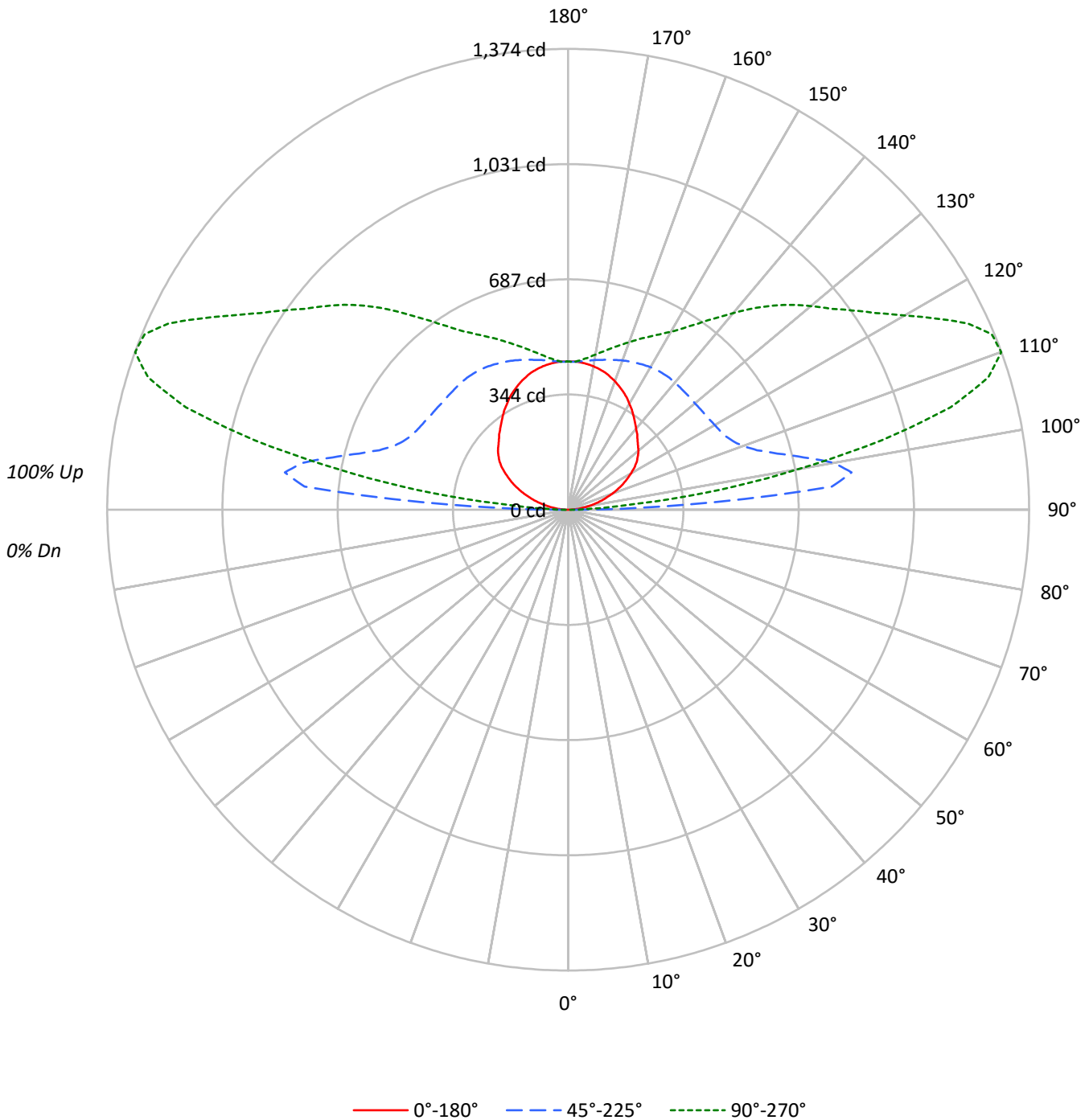
Lumens per Lamp: N/A
Luminaire Lumens: 3318.0 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 35.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	1.8	0.1
90°-100°	321.2	9.7
100°-110°	692.6	20.9
110°-120°	645.7	19.5
120°-130°	523.0	15.8
130°-140°	419.9	12.7
140°-150°	316.7	9.5
150°-160°	223.0	6.7
160°-170°	131.5	4.0
170°-180°	42.7	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.8	0.1
90°-120°	1659.5	50.0
90°-150°	2919.1	88.0
90°-180°	3316.0	99.9
0°-180°	3318.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	1	8	14	19	20	2
95°	29	87	789	358	209	31
105°	101	141	645	1271	1180	106
115°	180	217	518	1117	1314	177
125°	249	292	497	888	1035	221
135°	292	351	493	745	860	227
145°	340	389	495	616	678	213
155°	388	418	482	545	569	179
165°	424	435	463	491	498	119
175°	441	441	444	450	448	42
180°	442	442	442	442	442	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.9	1.8	3.6	5.3	7.1	8.9	9.8	11.6	12.5	14.2	15.1
92.5°	13.4	16.0	24.9	38.3	57.0	89.0	149.5	251.0	361.4	355.2	286.6
95°	29.4	30.3	37.4	47.2	66.8	106.8	202.1	397.9	643.6	788.7	771.8
97.5°	45.4	46.3	51.6	61.4	79.2	108.6	174.5	324.9	590.2	851.9	964.1
100°	62.3	64.1	67.7	77.4	94.4	121.1	172.7	288.4	512.7	803.8	1026.4
102.5°	81.0	81.9	84.6	95.2	110.4	136.2	180.7	273.3	454.0	719.3	989.0
105°	100.6	100.6	105.0	113.9	128.2	153.1	192.3	271.5	420.2	645.4	900.9
107.5°	119.3	121.1	125.5	132.6	147.8	170.0	208.3	277.7	402.4	590.2	817.2
110°	139.8	141.5	145.1	153.1	166.5	189.6	226.1	287.5	395.2	553.7	747.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	160.2	162.0	164.7	172.7	186.0	208.3	243.0	300.0	395.2	532.3	696.1
115°	179.8	181.6	184.3	192.3	205.6	227.9	260.8	312.5	397.9	518.1	661.4
117.5°	197.6	200.3	203.0	211.0	226.1	247.5	278.6	326.7	402.4	510.1	638.3
120°	215.4	218.1	221.7	229.7	244.8	267.1	298.2	340.9	409.5	504.7	619.6
122.5°	234.1	235.9	238.6	246.6	263.5	285.7	316.9	357.0	415.7	500.3	603.5
125°	249.2	251.0	255.5	263.5	280.4	303.5	332.9	371.2	422.8	496.7	589.3
127.5°	261.7	264.4	269.7	279.5	297.3	320.5	348.9	384.6	430.8	494.9	575.9
130°	273.3	276.0	283.1	294.6	313.3	336.5	364.1	397.9	438.0	493.2	562.6
132.5°	282.2	285.7	294.6	308.0	327.6	350.7	378.3	409.5	446.0	493.2	551.9
135°	292.0	295.5	306.2	320.5	339.2	363.2	390.8	420.2	453.1	493.2	543.9
137.5°	304.4	307.1	316.9	331.1	349.8	374.8	399.7	428.2	460.2	494.0	535.9
140°	315.1	317.8	328.5	342.7	359.6	383.7	409.5	436.2	464.7	494.9	530.5
142.5°	327.6	329.4	339.2	353.4	369.4	391.7	415.7	440.6	467.3	495.8	526.1
145°	340.0	341.8	350.7	363.2	379.2	399.7	422.8	445.1	469.1	494.9	521.6
147.5°	353.4	354.3	362.3	373.9	388.1	406.8	427.3	447.8	470.0	493.2	517.2
150°	365.0	366.8	373.0	384.6	397.0	412.1	431.7	450.4	470.0	490.5	511.8
152.5°	377.4	378.3	383.7	393.5	405.0	418.4	436.2	452.2	469.1	486.9	505.6
155°	388.1	388.1	393.5	402.4	411.3	423.7	438.9	453.1	467.3	482.5	498.5
157.5°	397.9	397.9	402.4	410.4	418.4	428.2	441.5	454.0	465.6	478.0	492.3
160°	407.7	406.8	410.4	416.6	423.7	431.7	443.3	454.0	462.9	473.6	484.3
162.5°	415.7	414.8	418.4	423.7	429.1	435.3	445.1	453.1	460.2	468.2	477.1
165°	423.7	421.9	424.6	429.1	432.6	438.0	445.1	452.2	457.5	462.9	470.0
167.5°	429.1	428.2	430.0	432.6	435.3	438.9	445.1	450.4	453.1	457.5	462.9
170°	434.4	433.5	434.4	436.2	438.0	440.6	445.1	448.6	450.4	453.1	456.7
172.5°	438.0	436.2	437.1	438.9	439.7	440.6	444.2	446.9	446.9	447.8	450.4
175°	440.6	438.9	439.7	440.6	440.6	440.6	443.3	445.1	444.2	444.2	445.1
177.5°	442.4	440.6	440.6	441.5	440.6	440.6	442.4	443.3	441.5	441.5	442.4
180°	441.5	441.5	441.5	441.5	441.5	441.5	441.5	441.5	441.5	441.5	441.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	16.0	16.9	17.8	19.6	19.6	19.6	20.5	20.5
92.5°	193.2	138.9	103.3	86.3	72.1	69.4	67.7	65.9
95°	640.0	504.7	395.2	320.5	257.3	230.6	223.4	209.2
97.5°	917.8	810.1	699.7	592.9	539.4	493.2	469.1	458.4
100°	1094.9	1051.3	959.6	867.0	805.6	741.5	708.6	694.3
102.5°	1154.6	1199.1	1167.0	1111.8	1045.1	1004.1	967.6	957.8
105°	1114.5	1236.4	1275.6	1265.8	1237.3	1208.0	1190.2	1179.5
107.5°	1032.6	1193.7	1288.1	1327.2	1335.3	1330.8	1321.9	1313.0
110°	940.0	1109.2	1234.7	1310.3	1350.4	1367.3	1373.5	1373.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	867.0	1025.5	1152.8	1245.3	1308.6	1340.6	1358.4	1366.4
115°	808.3	946.3	1068.2	1165.2	1234.7	1277.4	1302.3	1313.9
117.5°	767.3	889.3	996.1	1087.8	1158.1	1202.6	1227.5	1234.7
120°	735.3	842.1	940.0	1018.4	1084.2	1127.0	1151.0	1158.1
122.5°	711.2	808.3	892.8	964.9	1021.9	1060.2	1084.2	1090.5
125°	688.1	778.9	856.3	920.4	970.3	1006.8	1026.4	1035.3
127.5°	664.1	750.4	823.4	883.9	929.3	962.3	981.0	984.5
130°	641.8	720.1	789.6	847.4	892.0	921.3	939.1	944.5
132.5°	619.6	691.7	753.1	808.3	852.8	882.2	898.2	904.4
135°	600.9	662.3	719.3	770.0	809.2	838.5	854.6	859.9
137.5°	584.0	635.6	684.5	729.1	764.7	792.3	807.4	813.6
140°	570.6	612.4	653.4	690.8	723.7	746.9	760.2	764.7
142.5°	559.0	592.9	626.7	657.8	684.5	703.2	715.7	719.3
145°	549.2	576.8	604.4	628.5	649.8	665.0	674.7	678.3
147.5°	539.4	562.6	584.8	603.5	621.3	633.8	640.0	641.8
150°	531.4	551.0	567.9	584.0	597.3	608.0	611.5	612.4
152.5°	522.5	539.4	554.6	566.1	576.8	584.8	588.4	589.3
155°	513.6	527.9	540.3	550.1	559.0	565.3	567.9	568.8
157.5°	504.7	517.2	527.0	535.0	542.1	547.5	550.1	550.1
160°	495.8	504.7	513.6	519.9	526.1	530.5	532.3	531.4
162.5°	486.0	494.0	501.2	506.5	511.0	514.5	514.5	514.5
165°	477.1	483.4	488.7	493.2	496.7	498.5	498.5	498.5
167.5°	468.2	472.7	477.1	480.7	482.5	484.3	483.4	483.4
170°	461.1	463.8	466.4	468.2	470.0	470.9	470.9	470.0
172.5°	453.1	455.8	457.5	458.4	458.4	460.2	458.4	457.5
175°	447.8	447.8	449.5	449.5	449.5	450.4	448.6	447.8
177.5°	443.3	444.2	444.2	444.2	443.3	444.2	441.5	441.5
180°	441.5	441.5	441.5	441.5	441.5	441.5	441.5	441.5

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