

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: P334443

Luminaire Tested: **S122IP-S925U830-4F0-1E-UDD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122IP-S925U830-4F0-1E-UDD-4
Description: DEFINE 2 INDIRECT LED LUMINAIRE, BATWING OPTIC
PENDANT MOUNT, 925 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

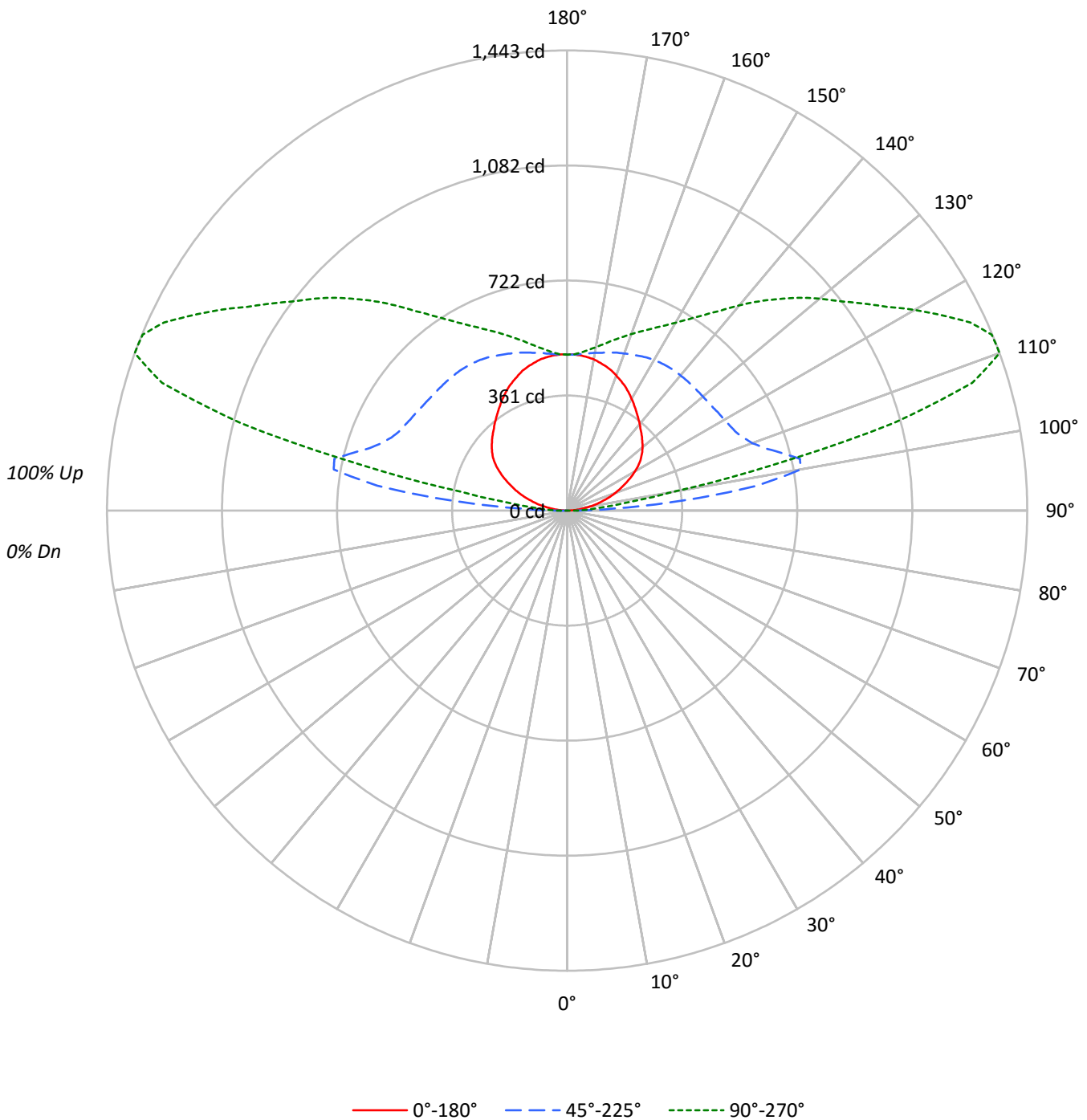
Lumens per Lamp: N/A
Luminaire Lumens: 3409.6 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

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



TEST NUMBER: P334443
CATALOG NUMBER: S122IP-S925U830-4F0-1E-UDD-4

Luminous Intensity Polar Plot





TEST NUMBER: P334443

CATALOG NUMBER: S122IP-S925U830-4F0-1E-UDD-4

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



TEST NUMBER: P334443

CATALOG NUMBER: S122IP-S925U830-4F0-1E-UDD-4

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°	3.1	0.1
90°-100°	190.7	5.6
100°-110°	671.5	19.7
110°-120°	705.3	20.7
120°-130°	580.2	17.0
130°-140°	466.1	13.7
140°-150°	352.1	10.3
150°-160°	247.5	7.3
160°-170°	145.7	4.3
170°-180°	47.4	1.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.1	0.1
90°-120°	1567.5	46.0
90°-150°	2965.9	87.0
90°-180°	3406.0	99.9
0°-180°	3409.6	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	13	32	31	31	2
95°	33	81	369	139	107	34
105°	115	173	697	1246	1060	122
115°	202	255	583	1204	1395	201
125°	282	334	561	975	1132	251
135°	331	395	554	819	938	256
145°	378	435	551	684	749	237
155°	430	464	535	605	629	198
165°	468	483	513	544	552	132
175°	488	489	493	499	498	46
180°	489	489	489	489	489	



TEST NUMBER: P334443

CATALOG NUMBER: S122IP-S925U830-4F0-1E-UDD-4

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	3.8	7.5	9.4	11.3	14.1	18.8	25.4	31.0	32.0	31.0
92.5°	14.1	19.8	27.3	32.0	39.5	49.9	75.3	111.0	143.0	144.9	121.3
95°	32.9	36.7	46.1	54.6	69.6	92.2	135.5	217.3	326.4	368.7	322.7
97.5°	48.9	54.6	64.9	77.1	94.1	119.5	175.0	288.8	464.7	601.1	605.8
100°	72.4	75.3	83.7	98.8	117.6	143.9	193.8	308.5	511.7	743.1	878.6
102.5°	94.1	95.9	104.4	119.5	139.2	165.6	210.7	309.5	493.9	747.8	980.2
105°	114.8	118.5	125.1	139.2	159.9	186.3	230.5	314.2	469.4	697.0	947.3
107.5°	137.3	140.2	146.7	159.9	180.6	207.0	250.2	324.5	456.2	650.0	877.7
110°	159.9	163.7	169.3	181.6	201.3	228.6	270.0	337.7	452.5	618.0	812.8



TEST NUMBER: P334443

CATALOG NUMBER: S122IP-S925U830-4F0-1E-UDD-4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	180.6	184.4	191.0	202.2	221.1	249.3	288.8	351.8	453.4	597.3	767.6
115°	202.2	207.0	212.6	223.9	242.7	268.1	308.5	365.9	457.2	583.2	731.9
117.5°	224.8	228.6	234.2	244.6	262.5	288.8	326.4	381.0	462.8	575.7	707.4
120°	245.5	249.3	254.9	263.4	282.2	308.5	345.2	396.0	468.5	569.1	688.6
122.5°	265.3	268.1	273.7	283.1	302.0	329.2	363.1	409.2	475.0	565.4	672.6
125°	282.2	285.0	290.7	302.0	320.8	347.1	381.0	423.3	481.6	560.6	657.5
127.5°	296.3	300.1	307.6	319.8	337.7	365.0	397.9	436.5	488.2	557.8	643.4
130°	308.5	312.3	321.7	334.9	353.7	380.0	413.0	448.7	495.7	555.9	629.3
132.5°	319.8	324.5	334.9	349.0	368.7	395.1	426.1	460.9	503.3	555.0	618.0
135°	331.1	334.9	346.2	360.3	381.9	408.3	438.4	471.3	508.9	554.1	607.7
137.5°	341.5	346.2	357.5	372.5	394.1	418.6	448.7	479.7	514.6	554.1	600.2
140°	353.7	357.5	368.7	383.8	404.5	429.0	457.2	486.3	518.3	553.1	593.6
142.5°	365.9	368.7	379.1	394.1	413.9	436.5	463.8	492.0	521.1	553.1	587.0
145°	378.2	381.9	391.3	405.4	424.2	444.9	470.3	496.7	523.0	551.2	581.3
147.5°	391.3	394.1	403.6	416.7	432.7	451.5	476.0	499.5	524.0	548.4	575.7
150°	404.5	407.3	414.8	427.1	441.2	458.1	479.7	501.4	523.0	545.6	568.2
152.5°	417.7	418.6	426.1	436.5	449.6	464.7	483.5	502.3	521.1	540.9	561.6
155°	429.9	430.8	436.5	446.8	457.2	471.3	487.3	503.3	519.3	535.2	553.1
157.5°	440.2	441.2	445.9	455.3	463.8	476.0	490.1	503.3	515.5	529.6	545.6
160°	450.6	451.5	455.3	462.8	470.3	480.7	492.0	503.3	512.7	524.0	537.1
162.5°	460.9	460.0	463.8	469.4	476.0	483.5	492.9	502.3	509.9	519.3	529.6
165°	468.5	467.5	469.4	475.0	479.7	485.4	493.9	500.4	506.1	512.7	521.1
167.5°	475.0	474.1	476.0	479.7	483.5	487.3	493.9	499.5	502.3	507.0	512.7
170°	481.6	479.7	480.7	483.5	485.4	488.2	492.9	497.6	499.5	502.3	506.1
172.5°	485.4	484.5	483.5	486.3	487.3	489.2	492.0	494.8	495.7	496.7	499.5
175°	488.2	487.3	486.3	488.2	488.2	489.2	491.0	492.9	492.0	492.9	493.9
177.5°	490.1	488.2	487.3	489.2	489.2	489.2	490.1	492.0	490.1	489.2	490.1
180°	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2



TEST NUMBER: P334443

CATALOG NUMBER: S122IP-S925U830-4F0-1E-UDD-4

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°	30.1	28.2	30.1	31.0	31.0	31.0	31.0	31.0
92.5°	95.0	80.9	70.6	63.0	62.1	58.3	59.3	57.4
95°	246.5	189.1	149.6	128.9	116.6	109.1	106.3	107.2
97.5°	504.2	402.6	307.6	251.2	214.5	195.7	185.3	179.7
100°	858.8	742.2	613.3	499.5	421.4	381.0	353.7	336.8
102.5°	1091.2	1087.4	1001.8	879.5	793.0	716.8	681.1	656.6
105°	1142.9	1249.2	1261.5	1230.4	1172.1	1113.8	1073.3	1060.2
107.5°	1087.4	1245.5	1337.7	1375.3	1374.3	1365.9	1353.6	1332.0
110°	1011.2	1179.6	1300.0	1377.2	1417.6	1435.5	1443.9	1443.0



TEST NUMBER: P334443

CATALOG NUMBER: S122IP-S925U830-4F0-1E-UDD-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	941.6	1101.5	1232.3	1323.5	1383.7	1416.7	1434.5	1441.1
115°	887.1	1031.9	1155.2	1252.1	1318.8	1362.1	1386.6	1395.0
117.5°	841.9	971.7	1086.5	1178.7	1247.3	1293.4	1318.8	1325.4
120°	809.9	926.6	1026.3	1111.9	1177.7	1221.9	1249.2	1258.6
122.5°	784.5	888.9	982.1	1057.3	1114.7	1158.0	1181.5	1189.0
125°	760.1	857.0	939.7	1010.3	1064.9	1100.6	1124.1	1131.6
127.5°	735.6	825.0	904.0	969.8	1017.8	1051.7	1072.4	1078.0
130°	712.1	793.0	867.3	929.4	975.5	1007.5	1026.3	1033.8
132.5°	689.5	762.9	829.7	887.1	932.2	964.2	981.1	987.7
135°	668.8	730.9	793.0	845.7	886.1	917.2	934.1	937.9
137.5°	651.9	705.5	756.3	803.3	841.9	869.2	884.2	889.9
140°	635.9	681.1	724.3	765.7	795.8	820.3	834.4	840.0
142.5°	622.7	659.4	695.2	728.1	756.3	777.9	790.2	790.2
145°	610.5	641.5	670.7	698.0	720.6	736.6	746.0	748.8
147.5°	601.1	626.5	650.0	670.7	690.5	703.6	710.2	712.1
150°	590.7	611.4	631.2	648.1	662.2	673.5	679.2	680.1
152.5°	580.4	599.2	615.2	629.3	639.7	649.1	652.8	652.8
155°	571.0	586.0	600.2	610.5	620.9	627.4	631.2	629.3
157.5°	559.7	572.9	585.1	593.6	601.1	606.7	608.6	608.6
160°	549.4	559.7	570.1	576.6	583.2	587.9	588.9	588.9
162.5°	539.0	547.5	555.9	560.6	567.2	570.1	571.0	570.1
165°	528.7	535.2	541.8	545.6	549.4	553.1	553.1	552.2
167.5°	518.3	524.0	528.7	532.4	534.3	536.2	536.2	535.2
170°	510.8	513.6	517.4	519.3	520.2	523.0	522.1	520.2
172.5°	502.3	504.2	507.0	508.0	508.9	509.9	508.9	508.0
175°	496.7	497.6	498.6	499.5	499.5	500.4	499.5	497.6
177.5°	492.0	492.0	492.9	492.9	492.9	492.9	492.0	490.1
180°	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2

(END OF REPORT)