

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: P334988

Luminaire Tested: **S125IP-S1035U930-4F0-1E-UDD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334988
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-S1035U930-4F0-1E-UDD-4
Description: DEFINE 5 INDIRECT LED LUMINAIRE, BATWING OPTIC
PENDANT MOUNT, 1035 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

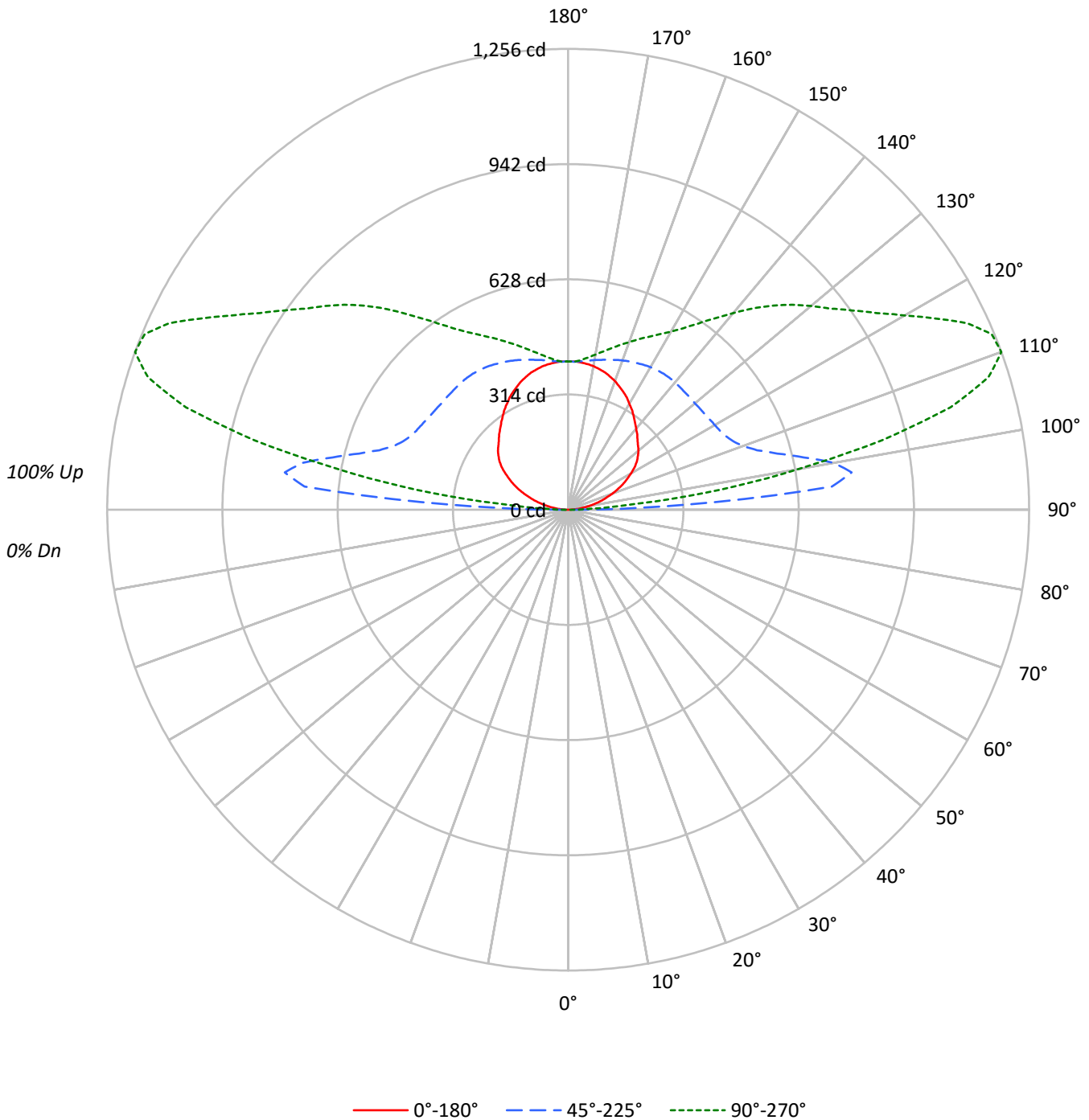
Lumens per Lamp: N/A
Luminaire Lumens: 3033.7 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

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



TEST NUMBER: P334988
CATALOG NUMBER: S125IP-S1035U930-4F0-1E-UDD-4

Luminous Intensity Polar Plot





TEST NUMBER: P334988

CATALOG NUMBER: S125IP-S1035U930-4F0-1E-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: P334988

CATALOG NUMBER: S125IP-S1035U930-4F0-1E-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°	1.6	0.1
90°-100°	293.6	9.7
100°-110°	633.2	20.9
110°-120°	590.4	19.5
120°-130°	478.2	15.8
130°-140°	383.9	12.7
140°-150°	289.6	9.5
150°-160°	203.9	6.7
160°-170°	120.2	4.0
170°-180°	39.1	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.6	0.1
90°-120°	1517.3	50.0
90°-150°	2668.9	88.0
90°-180°	3032.0	99.9
0°-180°	3033.7	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	7	13	17	19	2
95°	27	79	721	327	191	28
105°	92	129	590	1162	1078	97
115°	164	198	474	1021	1201	162
125°	228	267	454	812	947	202
135°	267	321	451	681	786	207
145°	311	356	452	564	620	195
155°	355	382	441	498	520	163
165°	387	398	423	449	456	109
175°	403	403	406	411	409	38
180°	404	404	404	404	404	



TEST NUMBER: P334988

CATALOG NUMBER: S125IP-S1035U930-4F0-1E-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°	0.8	1.6	3.3	4.9	6.5	8.1	9.0	10.6	11.4	13.0	13.8
92.5°	12.2	14.7	22.8	35.0	52.1	81.4	136.7	229.5	330.4	324.7	262.1
95°	26.9	27.7	34.2	43.1	61.0	97.7	184.8	363.8	588.4	721.1	705.6
97.5°	41.5	42.3	47.2	56.2	72.4	99.3	159.5	297.1	539.6	778.9	881.4
100°	57.0	58.6	61.9	70.8	86.3	110.7	157.9	263.7	468.8	734.9	938.4
102.5°	74.1	74.9	77.3	87.1	100.9	124.5	165.2	249.9	415.1	657.6	904.2
105°	92.0	92.0	96.0	104.2	117.2	140.0	175.8	248.2	384.2	590.1	823.7
107.5°	109.1	110.7	114.8	121.3	135.1	155.5	190.5	253.9	367.9	539.6	747.2
110°	127.8	129.4	132.7	140.0	152.2	173.4	206.7	262.9	361.4	506.2	683.7



TEST NUMBER: P334988

CATALOG NUMBER: S125IP-S1035U930-4F0-1E-UDD-4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	146.5	148.1	150.6	157.9	170.1	190.5	222.2	274.3	361.4	486.7	636.5
115°	164.4	166.0	168.5	175.8	188.0	208.4	238.5	285.7	363.8	473.7	604.7
117.5°	180.7	183.1	185.6	192.9	206.7	226.3	254.7	298.7	367.9	466.4	583.6
120°	197.0	199.4	202.7	210.0	223.8	244.2	272.7	311.7	374.4	461.5	566.5
122.5°	214.1	215.7	218.1	225.4	240.9	261.3	289.7	326.4	380.1	457.4	551.8
125°	227.9	229.5	233.6	240.9	256.4	277.5	304.4	339.4	386.6	454.2	538.8
127.5°	239.3	241.7	246.6	255.6	271.8	293.0	319.0	351.6	393.9	452.5	526.6
130°	249.9	252.3	258.8	269.4	286.5	307.7	332.9	363.8	400.4	450.9	514.4
132.5°	258.0	261.3	269.4	281.6	299.5	320.7	345.9	374.4	407.8	450.9	504.6
135°	267.0	270.2	280.0	293.0	310.1	332.1	357.3	384.2	414.3	450.9	497.3
137.5°	278.4	280.8	289.7	302.8	319.9	342.6	365.4	391.5	420.8	451.7	490.0
140°	288.1	290.6	300.3	313.3	328.8	350.8	374.4	398.8	424.9	452.5	485.1
142.5°	299.5	301.1	310.1	323.1	337.8	358.1	380.1	402.9	427.3	453.3	481.0
145°	310.9	312.5	320.7	332.1	346.7	365.4	386.6	406.9	428.9	452.5	476.9
147.5°	323.1	323.9	331.3	341.8	354.9	371.9	390.7	409.4	429.7	450.9	472.9
150°	333.7	335.3	341.0	351.6	363.0	376.8	394.7	411.8	429.7	448.5	468.0
152.5°	345.1	345.9	350.8	359.7	370.3	382.5	398.8	413.5	428.9	445.2	462.3
155°	354.9	354.9	359.7	367.9	376.0	387.4	401.2	414.3	427.3	441.1	455.8
157.5°	363.8	363.8	367.9	375.2	382.5	391.5	403.7	415.1	425.7	437.1	450.1
160°	372.8	371.9	375.2	380.9	387.4	394.7	405.3	415.1	423.2	433.0	442.8
162.5°	380.1	379.3	382.5	387.4	392.3	398.0	406.9	414.3	420.8	428.1	436.2
165°	387.4	385.8	388.2	392.3	395.6	400.4	406.9	413.5	418.3	423.2	429.7
167.5°	392.3	391.5	393.1	395.6	398.0	401.2	406.9	411.8	414.3	418.3	423.2
170°	397.2	396.4	397.2	398.8	400.4	402.9	406.9	410.2	411.8	414.3	417.5
172.5°	400.4	398.8	399.6	401.2	402.1	402.9	406.1	408.6	408.6	409.4	411.8
175°	402.9	401.2	402.1	402.9	402.9	402.9	405.3	406.9	406.1	406.1	406.9
177.5°	404.5	402.9	402.9	403.7	402.9	402.9	404.5	405.3	403.7	403.7	404.5
180°	403.7	403.7	403.7	403.7	403.7	403.7	403.7	403.7	403.7	403.7	403.7



TEST NUMBER: P334988

CATALOG NUMBER: S125IP-S1035U930-4F0-1E-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°	14.7	15.5	16.3	17.9	17.9	17.9	18.7	18.7
92.5°	176.6	127.0	94.4	78.9	65.9	63.5	61.9	60.2
95°	585.2	461.5	361.4	293.0	235.2	210.8	204.3	191.3
97.5°	839.1	740.6	639.7	542.1	493.2	450.9	428.9	419.2
100°	1001.1	961.2	877.4	792.7	736.6	678.0	647.9	634.8
102.5°	1055.6	1096.3	1067.0	1016.6	955.5	918.1	884.7	875.7
105°	1019.0	1130.5	1166.3	1157.4	1131.3	1104.5	1088.2	1078.4
107.5°	944.1	1091.4	1177.7	1213.5	1220.8	1216.8	1208.6	1200.5
110°	859.5	1014.1	1128.9	1198.0	1234.7	1250.1	1255.8	1255.8



TEST NUMBER: P334988

CATALOG NUMBER: S125IP-S1035U930-4F0-1E-UDD-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	792.7	937.6	1054.0	1138.6	1196.4	1225.7	1242.0	1249.3
115°	739.0	865.2	976.7	1065.4	1128.9	1167.9	1190.7	1201.3
117.5°	701.6	813.1	910.7	994.6	1058.9	1099.6	1122.4	1128.9
120°	672.3	769.9	859.5	931.1	991.3	1030.4	1052.4	1058.9
122.5°	650.3	739.0	816.3	882.3	934.3	969.3	991.3	997.0
125°	629.1	712.2	783.0	841.6	887.1	920.5	938.4	946.6
127.5°	607.2	686.1	752.8	808.2	849.7	879.8	896.9	900.2
130°	586.8	658.4	721.9	774.8	815.5	842.4	858.7	863.5
132.5°	566.5	632.4	688.6	739.0	779.7	806.6	821.2	826.9
135°	549.4	605.5	657.6	704.0	739.8	766.7	781.3	786.2
137.5°	533.9	581.1	625.9	666.6	699.1	724.4	738.2	743.9
140°	521.7	560.0	597.4	631.6	661.7	682.9	695.1	699.1
142.5°	511.1	542.1	573.0	601.5	625.9	643.0	654.4	657.6
145°	502.2	527.4	552.6	574.6	594.1	608.0	616.9	620.2
147.5°	493.2	514.4	534.7	551.8	568.1	579.5	585.2	586.8
150°	485.9	503.8	519.3	533.9	546.1	555.9	559.1	560.0
152.5°	477.8	493.2	507.1	517.6	527.4	534.7	538.0	538.8
155°	469.6	482.6	494.0	503.0	511.1	516.8	519.3	520.1
157.5°	461.5	472.9	481.8	489.1	495.7	500.5	503.0	503.0
160°	453.3	461.5	469.6	475.3	481.0	485.1	486.7	485.9
162.5°	444.4	451.7	458.2	463.1	467.2	470.4	470.4	470.4
165°	436.2	441.9	446.8	450.9	454.2	455.8	455.8	455.8
167.5°	428.1	432.2	436.2	439.5	441.1	442.8	441.9	441.9
170°	421.6	424.0	426.5	428.1	429.7	430.5	430.5	429.7
172.5°	414.3	416.7	418.3	419.2	419.2	420.8	419.2	418.3
175°	409.4	409.4	411.0	411.0	411.0	411.8	410.2	409.4
177.5°	405.3	406.1	406.1	406.1	405.3	406.1	403.7	403.7
180°	403.7	403.7	403.7	403.7	403.7	403.7	403.7	403.7

(END OF REPORT)