

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: P334983

Luminaire Tested: **S125IP-S1035U927-4F0-1E-UDD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334983
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-S1035U927-4F0-1E-UDD-4
Description: DEFINE 5 INDIRECT LED LUMINAIRE, BATWING OPTIC
PENDANT MOUNT, 1035 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2947.7 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

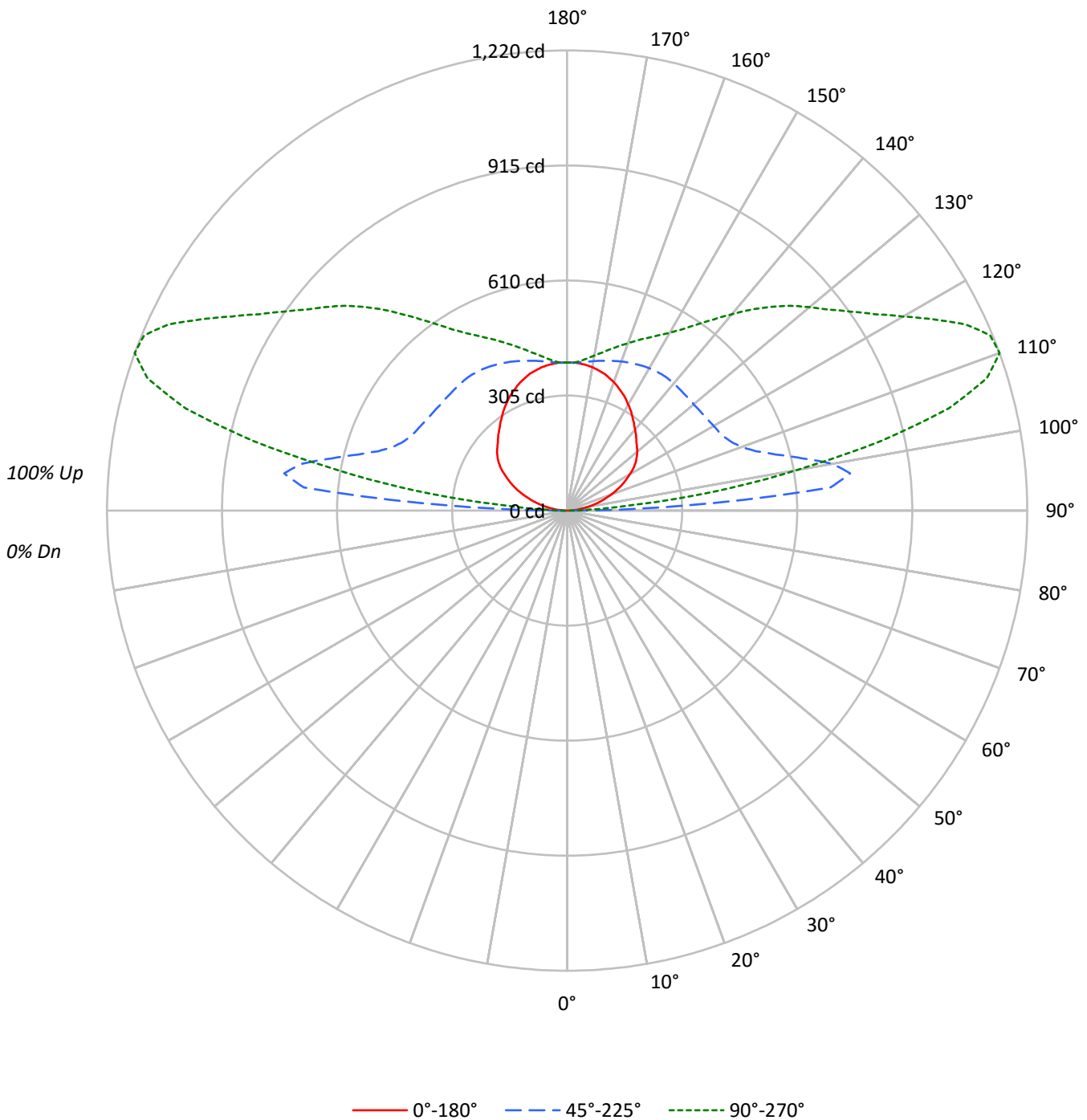
Input Watts (W): 35.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334983

CATALOG NUMBER: S125IP-S1035U927-4F0-1E-UDD-4

Luminous Intensity Polar Plot





TEST NUMBER: P334983

CATALOG NUMBER: S125IP-S1035U927-4F0-1E-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: P334983

CATALOG NUMBER: S125IP-S1035U927-4F0-1E-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°	285.3	9.7
100°-110°	615.3	20.9
110°-120°	573.6	19.5
120°-130°	464.6	15.8
130°-140°	373.1	12.7
140°-150°	281.4	9.5
150°-160°	198.1	6.7
160°-170°	116.8	4.0
170°-180°	38.0	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°	1474.2	50.0
90°-150°	2593.2	88.0
90°-180°	2946.0	99.9
0°-180°	2947.7	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	18	2
95°	26	77	701	318	186	27
105°	89	125	573	1129	1048	94
115°	160	193	460	992	1167	157
125°	221	259	441	789	920	197
135°	259	312	438	662	764	201
145°	302	346	440	548	603	189
155°	345	371	429	484	505	159
165°	376	387	411	436	443	106
175°	392	392	395	399	398	37
180°	392	392	392	392	392	



TEST NUMBER: P334983

CATALOG NUMBER: S125IP-S1035U927-4F0-1E-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	3.2	4.7	6.3	7.9	8.7	10.3	11.1	12.7	13.4
92.5°	11.9	14.2	22.1	34.0	50.6	79.1	132.9	223.0	321.1	315.5	254.6
95°	26.1	26.9	33.2	41.9	59.3	94.9	179.5	353.5	571.8	700.7	685.6
97.5°	40.3	41.1	45.9	54.6	70.4	96.5	155.0	288.6	524.3	756.8	856.5
100°	55.4	56.9	60.1	68.8	83.8	107.6	153.4	256.2	455.5	714.1	911.8
102.5°	72.0	72.8	75.1	84.6	98.1	121.0	160.5	242.8	403.3	639.0	878.6
105°	89.4	89.4	93.3	101.2	113.9	136.0	170.8	241.2	373.3	573.3	800.3
107.5°	106.0	107.6	111.5	117.8	131.3	151.0	185.1	246.7	357.4	524.3	726.0
110°	124.2	125.7	128.9	136.0	147.9	168.4	200.9	255.4	351.1	491.9	664.3



TEST NUMBER: P334983

CATALOG NUMBER: S125IP-S1035U927-4F0-1E-UDD-4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	142.3	143.9	146.3	153.4	165.3	185.1	215.9	266.5	351.1	472.9	618.4
115°	159.7	161.3	163.7	170.8	182.7	202.4	231.7	277.6	353.5	460.3	587.6
117.5°	175.6	177.9	180.3	187.4	200.9	219.8	247.5	290.2	357.4	453.1	567.0
120°	191.4	193.7	196.9	204.0	217.5	237.2	264.9	302.9	363.8	448.4	550.4
122.5°	208.0	209.6	211.9	219.1	234.1	253.9	281.5	317.1	369.3	444.4	536.2
125°	221.4	223.0	227.0	234.1	249.1	269.7	295.8	329.8	375.6	441.3	523.5
127.5°	232.5	234.9	239.6	248.3	264.1	284.7	310.0	341.6	382.8	439.7	511.7
130°	242.8	245.2	251.5	261.8	278.4	298.9	323.4	353.5	389.1	438.1	499.8
132.5°	250.7	253.9	261.8	273.6	291.0	311.6	336.1	363.8	396.2	438.1	490.3
135°	259.4	262.6	272.0	284.7	301.3	322.7	347.2	373.3	402.5	438.1	483.2
137.5°	270.5	272.8	281.5	294.2	310.8	332.9	355.1	380.4	408.9	438.9	476.1
140°	279.9	282.3	291.8	304.5	319.5	340.8	363.8	387.5	412.8	439.7	471.3
142.5°	291.0	292.6	301.3	314.0	328.2	348.0	369.3	391.5	415.2	440.5	467.4
145°	302.1	303.7	311.6	322.7	336.9	355.1	375.6	395.4	416.8	439.7	463.4
147.5°	314.0	314.7	321.9	332.1	344.8	361.4	379.6	397.8	417.6	438.1	459.5
150°	324.2	325.8	331.4	341.6	352.7	366.1	383.5	400.2	417.6	435.7	454.7
152.5°	335.3	336.1	340.8	349.5	359.8	371.7	387.5	401.7	416.8	432.6	449.2
155°	344.8	344.8	349.5	357.4	365.4	376.4	389.9	402.5	415.2	428.6	442.9
157.5°	353.5	353.5	357.4	364.6	371.7	380.4	392.2	403.3	413.6	424.7	437.3
160°	362.2	361.4	364.6	370.1	376.4	383.5	393.8	403.3	411.2	420.7	430.2
162.5°	369.3	368.5	371.7	376.4	381.2	386.7	395.4	402.5	408.9	416.0	423.9
165°	376.4	374.8	377.2	381.2	384.3	389.1	395.4	401.7	406.5	411.2	417.6
167.5°	381.2	380.4	382.0	384.3	386.7	389.9	395.4	400.2	402.5	406.5	411.2
170°	385.9	385.1	385.9	387.5	389.1	391.5	395.4	398.6	400.2	402.5	405.7
172.5°	389.1	387.5	388.3	389.9	390.7	391.5	394.6	397.0	397.0	397.8	400.2
175°	391.5	389.9	390.7	391.5	391.5	391.5	393.8	395.4	394.6	394.6	395.4
177.5°	393.0	391.5	391.5	392.2	391.5	391.5	393.0	393.8	392.2	392.2	393.0
180°	392.2	392.2	392.2	392.2	392.2	392.2	392.2	392.2	392.2	392.2	392.2



TEST NUMBER: P334983

CATALOG NUMBER: S125IP-S1035U927-4F0-1E-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°	14.2	15.0	15.8	17.4	17.4	17.4	18.2	18.2
92.5°	171.6	123.4	91.7	76.7	64.1	61.7	60.1	58.5
95°	568.6	448.4	351.1	284.7	228.5	204.8	198.5	185.8
97.5°	815.3	719.6	621.6	526.7	479.2	438.1	416.8	407.3
100°	972.7	934.0	852.5	770.3	715.7	658.7	629.5	616.8
102.5°	1025.7	1065.2	1036.8	987.7	928.4	892.0	859.6	850.9
105°	990.1	1098.4	1133.2	1124.5	1099.2	1073.1	1057.3	1047.8
107.5°	917.3	1060.5	1144.3	1179.1	1186.2	1182.3	1174.4	1166.5
110°	835.1	985.4	1096.9	1164.1	1199.7	1214.7	1220.2	1220.2



TEST NUMBER: P334983

CATALOG NUMBER: S125IP-S1035U927-4F0-1E-UDD-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	770.3	911.0	1024.1	1106.3	1162.5	1191.0	1206.8	1213.9
115°	718.1	840.6	949.0	1035.2	1096.9	1134.8	1157.0	1167.2
117.5°	681.7	790.0	884.9	966.4	1028.8	1068.4	1090.5	1096.9
120°	653.2	748.1	835.1	904.7	963.2	1001.2	1022.5	1028.8
122.5°	631.9	718.1	793.2	857.2	907.9	941.9	963.2	968.7
125°	611.3	692.0	760.8	817.7	862.0	894.4	911.8	919.7
127.5°	589.9	666.7	731.5	785.3	825.6	854.9	871.5	874.6
130°	570.2	639.8	701.5	752.9	792.4	818.5	834.3	839.1
132.5°	550.4	614.5	669.0	718.1	757.6	783.7	797.9	803.5
135°	533.8	588.4	639.0	684.1	718.9	744.9	759.2	763.9
137.5°	518.8	564.6	608.1	647.7	679.3	703.8	717.3	722.8
140°	506.9	544.1	580.5	613.7	642.9	663.5	675.4	679.3
142.5°	496.6	526.7	556.7	584.4	608.1	624.7	635.8	639.0
145°	487.9	512.4	537.0	558.3	577.3	590.7	599.4	602.6
147.5°	479.2	499.8	519.6	536.2	552.0	563.1	568.6	570.2
150°	472.1	489.5	504.5	518.8	530.6	540.1	543.3	544.1
152.5°	464.2	479.2	492.7	503.0	512.4	519.6	522.7	523.5
155°	456.3	469.0	480.0	488.7	496.6	502.2	504.5	505.3
157.5°	448.4	459.5	468.2	475.3	481.6	486.4	488.7	488.7
160°	440.5	448.4	456.3	461.8	467.4	471.3	472.9	472.1
162.5°	431.8	438.9	445.2	450.0	453.9	457.1	457.1	457.1
165°	423.9	429.4	434.2	438.1	441.3	442.9	442.9	442.9
167.5°	416.0	419.9	423.9	427.0	428.6	430.2	429.4	429.4
170°	409.6	412.0	414.4	416.0	417.6	418.3	418.3	417.6
172.5°	402.5	404.9	406.5	407.3	407.3	408.9	407.3	406.5
175°	397.8	397.8	399.4	399.4	399.4	400.2	398.6	397.8
177.5°	393.8	394.6	394.6	394.6	393.8	394.6	392.2	392.2
180°	392.2	392.2	392.2	392.2	392.2	392.2	392.2	392.2

(END OF REPORT)