

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1007788

Luminaire Tested: S125IP-B1090UB30-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125IP-B1090UB30-4F0-XX-W2A-4
Description: Define 5 Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

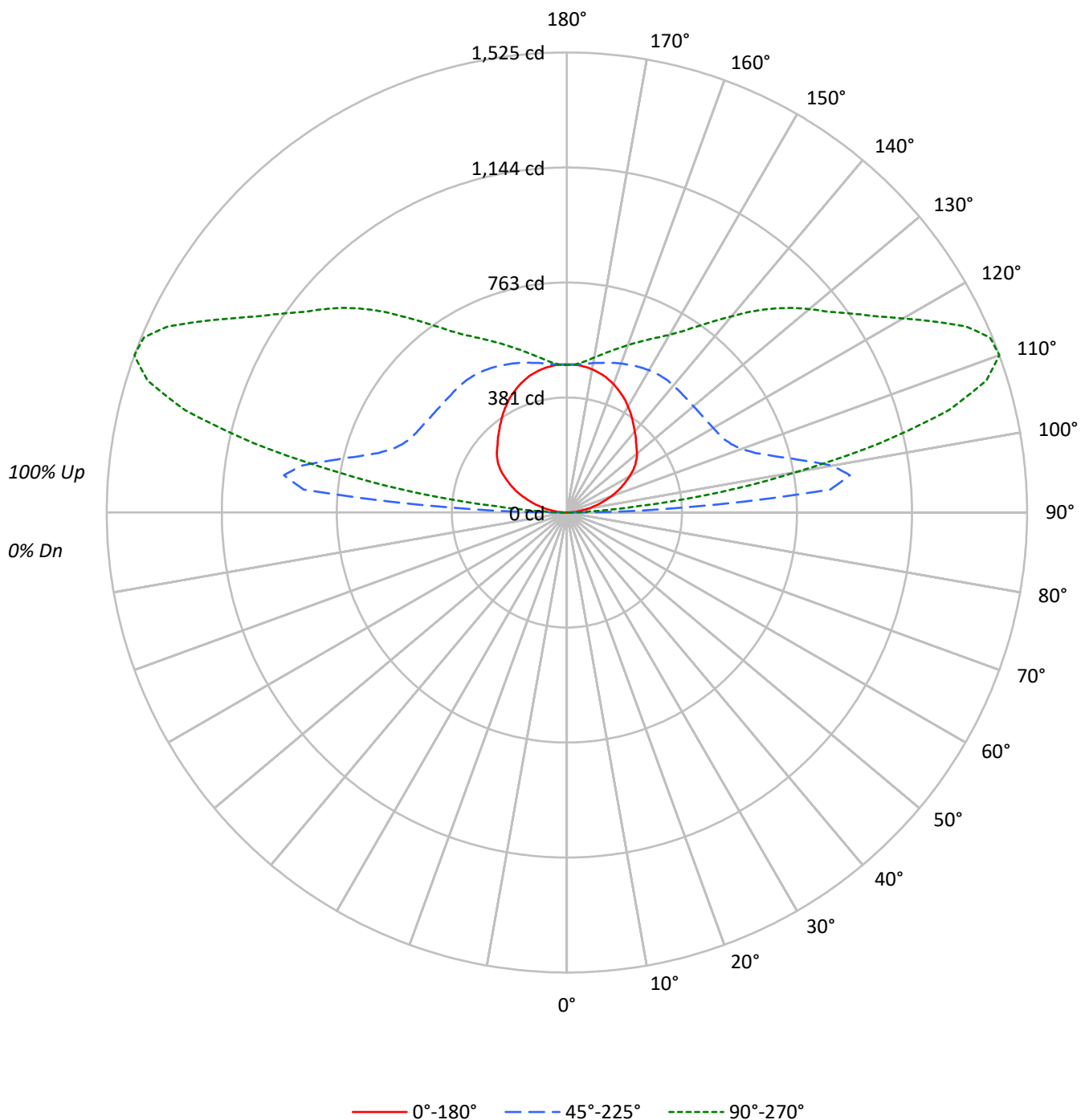
Lumens per Lamp: N/A
Luminaire Lumens: 3684.0 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 28.5
Input Voltage (V):
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: 24 FT

TEST NUMBER: P1007788

CATALOG NUMBER: S125IP-B1090UB30-4F0-XX-W2A-4

Luminous Intensity Polar Plot



TEST NUMBER: P1007788

CATALOG NUMBER: S125IP-B1090UB30-4F0-XX-W2A-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

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

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 0°
Luminance: 0 cd/sqm

TEST NUMBER: P1007788

CATALOG NUMBER: S125IP-B1090UB30-4F0-XX-W2A-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°	1.9	0.1
90°-100°	356.6	9.7
100°-110°	769.0	20.9
110°-120°	716.9	19.5
120°-130°	580.6	15.8
130°-140°	466.2	12.7
140°-150°	351.7	9.5
150°-160°	247.6	6.7
160°-170°	146.0	4.0
170°-180°	47.5	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.9	0.1
90°-120°	1842.5	50.0
90°-150°	3241.0	88.0
90°-180°	3682.0	99.9
0°-180°	3684.0	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	9	16	21	23	2
95°	33	96	876	397	232	34
105°	112	156	717	1411	1310	118
115°	200	241	575	1240	1459	197
125°	277	324	552	986	1150	246
135°	324	390	548	827	955	252
145°	378	432	550	684	753	237
155°	431	464	536	605	632	198
165°	470	483	514	545	554	133
175°	489	489	493	499	497	46
180°	490	490	490	490	490	

TEST NUMBER: P1007788

CATALOG NUMBER: S125IP-B1090UB30-4F0-XX-W2A-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°	1.0	2.0	4.0	5.9	7.9	9.9	10.9	12.8	13.8	15.8	16.8
92.5°	14.8	17.8	27.7	42.5	63.3	98.8	166.0	278.7	401.3	394.4	318.2
95°	32.6	33.6	41.5	52.4	74.1	118.6	224.4	441.8	714.6	875.7	856.9
97.5°	50.4	51.4	57.3	68.2	88.0	120.6	193.7	360.7	655.3	945.9	1070.4
100°	69.2	71.2	75.1	86.0	104.8	134.4	191.7	320.2	569.3	892.5	1139.6
102.5°	89.9	90.9	93.9	105.8	122.6	151.2	200.6	303.4	504.1	798.6	1098.1
105°	111.7	111.7	116.6	126.5	142.3	170.0	213.5	301.4	466.5	716.6	1000.2
107.5°	132.4	134.4	139.4	147.3	164.1	188.8	231.3	308.4	446.7	655.3	907.3
110°	155.2	157.1	161.1	170.0	184.8	210.5	251.0	319.2	438.8	614.8	830.2



TEST NUMBER: P1007788

CATALOG NUMBER: S125IP-B1090UB30-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	177.9	179.9	182.8	191.7	206.6	231.3	269.8	333.1	438.8	591.0	772.9
115°	199.6	201.6	204.6	213.5	228.3	253.0	289.6	346.9	441.8	575.2	734.3
117.5°	219.4	222.4	225.3	234.2	251.0	274.8	309.4	362.7	446.7	566.3	708.6
120°	239.2	242.1	246.1	255.0	271.8	296.5	331.1	378.5	454.6	560.4	687.9
122.5°	259.9	261.9	264.9	273.8	292.6	317.3	351.9	396.3	461.6	555.5	670.1
125°	276.7	278.7	283.7	292.6	311.3	337.0	369.6	412.1	469.5	551.5	654.3
127.5°	290.6	293.5	299.5	310.3	330.1	355.8	387.4	427.0	478.4	549.5	639.5
130°	303.4	306.4	314.3	327.1	347.9	373.6	404.2	441.8	486.3	547.5	624.6
132.5°	313.3	317.3	327.1	342.0	363.7	389.4	420.0	454.6	495.2	547.5	612.8
135°	324.2	328.1	340.0	355.8	376.6	403.2	433.9	466.5	503.1	547.5	603.9
137.5°	338.0	341.0	351.9	367.7	388.4	416.1	443.8	475.4	511.0	548.5	595.0
140°	349.9	352.8	364.7	380.5	399.3	426.0	454.6	484.3	515.9	549.5	589.1
142.5°	363.7	365.7	376.6	392.4	410.2	434.9	461.6	489.2	518.9	550.5	584.1
145°	377.6	379.5	389.4	403.2	421.0	443.8	469.5	494.2	520.9	549.5	579.2
147.5°	392.4	393.4	402.3	415.1	430.9	451.7	474.4	497.1	521.8	547.5	574.2
150°	405.2	407.2	414.1	427.0	440.8	457.6	479.4	500.1	521.8	544.6	568.3
152.5°	419.1	420.0	426.0	436.9	449.7	464.5	484.3	502.1	520.9	540.6	561.4
155°	430.9	430.9	436.9	446.7	456.6	470.5	487.3	503.1	518.9	535.7	553.5
157.5°	441.8	441.8	446.7	455.6	464.5	475.4	490.2	504.1	516.9	530.7	546.6
160°	452.7	451.7	455.6	462.5	470.5	479.4	492.2	504.1	513.9	525.8	537.7
162.5°	461.6	460.6	464.5	470.5	476.4	483.3	494.2	503.1	511.0	519.9	529.8
165°	470.5	468.5	471.4	476.4	480.3	486.3	494.2	502.1	508.0	513.9	521.8
167.5°	476.4	475.4	477.4	480.3	483.3	487.3	494.2	500.1	503.1	508.0	513.9
170°	482.3	481.3	482.3	484.3	486.3	489.2	494.2	498.1	500.1	503.1	507.0
172.5°	486.3	484.3	485.3	487.3	488.2	489.2	493.2	496.2	496.2	497.1	500.1
175°	489.2	487.3	488.2	489.2	489.2	489.2	492.2	494.2	493.2	493.2	494.2
177.5°	491.2	489.2	489.2	490.2	489.2	489.2	491.2	492.2	490.2	490.2	491.2
180°	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2

TEST NUMBER: P1007788

CATALOG NUMBER: S125IP-B1090UB30-4F0-XX-W2A-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°	17.8	18.8	19.8	21.7	21.7	21.7	22.7	22.7
92.5°	214.5	154.2	114.6	95.9	80.1	77.1	75.1	73.1
95°	710.6	560.4	438.8	355.8	285.6	256.0	248.1	232.3
97.5°	1019.0	899.4	776.8	658.2	598.9	547.5	520.9	509.0
100°	1215.7	1167.2	1065.4	962.7	894.5	823.3	786.7	770.9
102.5°	1281.9	1331.3	1295.7	1234.5	1160.3	1114.9	1074.3	1063.5
105°	1237.4	1372.8	1416.3	1405.4	1373.8	1341.2	1321.4	1309.6
107.5°	1146.5	1325.4	1430.1	1473.6	1482.5	1477.6	1467.7	1457.8
110°	1043.7	1231.5	1370.8	1454.9	1499.3	1518.1	1525.0	1525.0

TEST NUMBER: P1007788

CATALOG NUMBER: S125IP-B1090UB30-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	962.7	1138.6	1279.9	1382.7	1452.9	1488.5	1508.2	1517.1
115°	897.4	1050.6	1186.0	1293.8	1370.8	1418.3	1446.0	1458.8
117.5°	852.0	987.4	1106.0	1207.8	1285.8	1335.3	1362.9	1370.8
120°	816.4	935.0	1043.7	1130.7	1203.8	1251.3	1277.9	1285.8
122.5°	789.7	897.4	991.3	1071.4	1134.6	1177.1	1203.8	1210.7
125°	764.0	864.8	950.8	1022.0	1077.3	1117.8	1139.6	1149.5
127.5°	737.3	833.2	914.2	981.4	1031.8	1068.4	1089.2	1093.1
130°	712.6	799.6	876.7	940.9	990.3	1022.9	1042.7	1048.6
132.5°	687.9	767.9	836.1	897.4	946.8	979.5	997.2	1004.2
135°	667.1	735.3	798.6	854.9	898.4	931.0	948.8	954.7
137.5°	648.4	705.7	760.0	809.5	849.0	879.6	896.4	903.4
140°	633.5	680.0	725.5	767.0	803.5	829.2	844.1	849.0
142.5°	620.7	658.2	695.8	730.4	760.0	780.8	794.6	798.6
145°	609.8	640.5	671.1	697.8	721.5	738.3	749.2	753.1
147.5°	598.9	624.6	649.3	670.1	689.9	703.7	710.6	712.6
150°	590.0	611.8	630.6	648.4	663.2	675.0	679.0	680.0
152.5°	580.2	598.9	615.7	628.6	640.5	649.3	653.3	654.3
155°	570.3	586.1	599.9	610.8	620.7	627.6	630.6	631.6
157.5°	560.4	574.2	585.1	594.0	601.9	607.8	610.8	610.8
160°	550.5	560.4	570.3	577.2	584.1	589.1	591.0	590.0
162.5°	539.6	548.5	556.4	562.4	567.3	571.3	571.3	571.3
165°	529.8	536.7	542.6	547.5	551.5	553.5	553.5	553.5
167.5°	519.9	524.8	529.8	533.7	535.7	537.7	536.7	536.7
170°	512.0	514.9	517.9	519.9	521.8	522.8	522.8	521.8
172.5°	503.1	506.0	508.0	509.0	509.0	511.0	509.0	508.0
175°	497.1	497.1	499.1	499.1	499.1	500.1	498.1	497.1
177.5°	492.2	493.2	493.2	493.2	492.2	493.2	490.2	490.2
180°	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2

(END OF REPORT)