

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: P1007347

Luminaire Tested: S122IP-B1080UB50-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122IP-B1080UB50-4F0-XX-W2A-4
Description: Define 2 Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

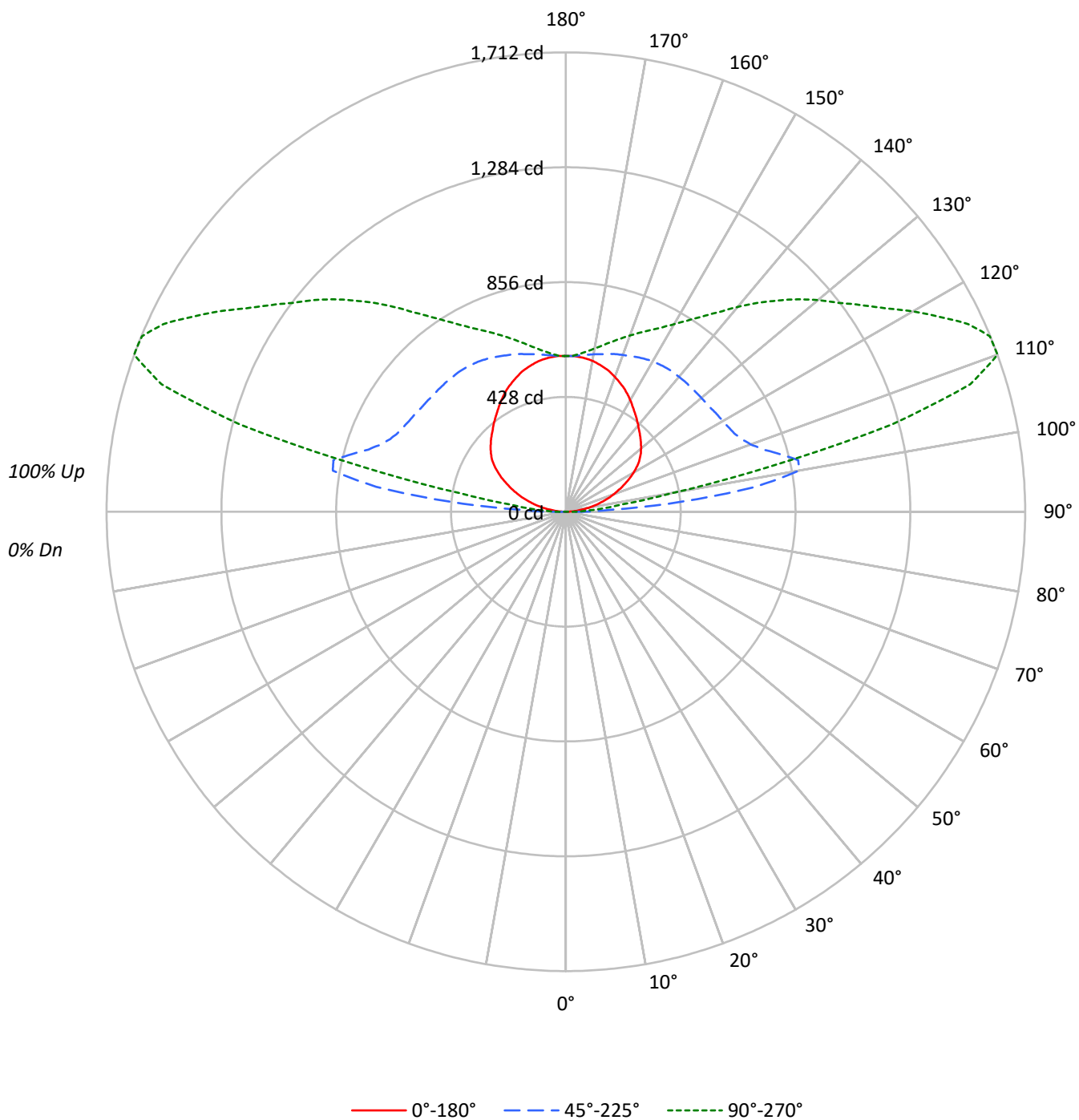
Lumens per Lamp: N/A
Luminaire Lumens: 4046.0 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 35
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: P1007347

CATALOG NUMBER: S122IP-B1080UB50-4F0-XX-W2A-4

Luminous Intensity Polar Plot



TEST NUMBER: P1007347

CATALOG NUMBER: S122IP-B1080UB50-4F0-XX-W2A-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

MAXIMUM LUMINANCE 45°-90°:

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

TEST NUMBER: P1007347

CATALOG NUMBER: S122IP-B1080UB50-4F0-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°	3.7	0.1
90°-100°	226.3	5.6
100°-110°	796.9	19.7
110°-120°	836.9	20.7
120°-130°	688.5	17.0
130°-140°	553.1	13.7
140°-150°	417.8	10.3
150°-160°	293.7	7.3
160°-170°	172.9	4.3
170°-180°	56.2	1.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.7	0.1
90°-120°	1860.0	46.0
90°-150°	3519.4	87.0
90°-180°	4042.0	99.9
0°-180°	4046.0	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	15	38	36	37	3
95°	39	96	438	165	127	40
105°	136	205	827	1478	1258	145
115°	240	303	692	1428	1655	238
125°	335	396	665	1157	1343	298
135°	393	469	658	972	1113	304
145°	449	516	654	812	888	282
155°	510	551	635	718	747	235
165°	556	573	608	645	655	157
175°	579	580	585	592	590	55
180°	580	580	580	580	580	

TEST NUMBER: P1007347

CATALOG NUMBER: S122IP-B1080UB50-4F0-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°	1.1	4.5	8.9	11.2	13.4	16.7	22.3	30.1	36.8	38.0	36.8
92.5°	16.7	23.4	32.4	38.0	46.9	59.2	89.3	131.7	169.7	171.9	144.0
95°	39.1	43.5	54.7	64.7	82.6	109.4	160.7	257.9	387.3	437.6	382.9
97.5°	58.0	64.7	77.0	91.5	111.6	141.8	207.6	342.7	551.4	713.3	718.9
100°	86.0	89.3	99.3	117.2	139.5	170.8	229.9	366.1	607.2	881.8	1042.6
102.5°	111.6	113.9	123.9	141.8	165.2	196.5	250.0	367.2	586.0	887.4	1163.1
105°	136.2	140.6	148.5	165.2	189.8	221.0	273.5	372.8	557.0	827.1	1124.1
107.5°	163.0	166.3	174.1	189.8	214.3	245.6	296.9	385.1	541.4	771.3	1041.5
110°	189.8	194.2	200.9	215.4	238.9	271.2	320.4	400.7	536.9	733.4	964.4

TEST NUMBER: P1007347

CATALOG NUMBER: S122IP-B1080UB50-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	214.3	218.8	226.6	240.0	262.3	295.8	342.7	417.5	538.0	708.8	910.9
115°	240.0	245.6	252.3	265.7	288.0	318.1	366.1	434.2	542.5	692.1	868.4
117.5°	266.8	271.2	277.9	290.2	311.4	342.7	387.3	452.1	549.2	683.1	839.4
120°	291.3	295.8	302.5	312.6	334.9	366.1	409.7	469.9	555.9	675.3	817.1
122.5°	314.8	318.1	324.8	336.0	358.3	390.7	430.9	485.6	563.7	670.9	798.1
125°	334.9	338.2	344.9	358.3	380.6	411.9	452.1	502.3	571.5	665.3	780.3
127.5°	351.6	356.1	365.0	379.5	400.7	433.1	472.2	517.9	579.3	661.9	763.5
130°	366.1	370.6	381.8	397.4	419.7	451.0	490.0	532.5	588.3	659.7	746.8
132.5°	379.5	385.1	397.4	414.1	437.6	468.8	505.7	547.0	597.2	658.6	733.4
135°	392.9	397.4	410.8	427.5	453.2	484.5	520.2	559.2	603.9	657.5	721.1
137.5°	405.2	410.8	424.2	442.0	467.7	496.7	532.5	569.3	610.6	657.5	712.2
140°	419.7	424.2	437.6	455.4	480.0	509.0	542.5	577.1	615.1	656.4	704.4
142.5°	434.2	437.6	449.8	467.7	491.2	517.9	550.3	583.8	618.4	656.4	696.5
145°	448.7	453.2	464.4	481.1	503.4	528.0	558.1	589.4	620.6	654.1	689.8
147.5°	464.4	467.7	478.9	494.5	513.5	535.8	564.8	592.7	621.8	650.8	683.1
150°	480.0	483.3	492.3	506.8	523.5	543.6	569.3	595.0	620.6	647.4	674.2
152.5°	495.6	496.7	505.7	517.9	533.6	551.4	573.8	596.1	618.4	641.8	666.4
155°	510.1	511.2	517.9	530.2	542.5	559.2	578.2	597.2	616.2	635.1	656.4
157.5°	522.4	523.5	529.1	540.3	550.3	564.8	581.6	597.2	611.7	628.4	647.4
160°	534.7	535.8	540.3	549.2	558.1	570.4	583.8	597.2	608.4	621.8	637.4
162.5°	547.0	545.8	550.3	557.0	564.8	573.8	584.9	596.1	605.0	616.2	628.4
165°	555.9	554.8	557.0	563.7	569.3	576.0	586.0	593.8	600.5	608.4	618.4
167.5°	563.7	562.6	564.8	569.3	573.8	578.2	586.0	592.7	596.1	601.7	608.4
170°	571.5	569.3	570.4	573.8	576.0	579.3	584.9	590.5	592.7	596.1	600.5
172.5°	576.0	574.9	573.8	577.1	578.2	580.5	583.8	587.1	588.3	589.4	592.7
175°	579.3	578.2	577.1	579.3	579.3	580.5	582.7	584.9	583.8	584.9	586.0
177.5°	581.6	579.3	578.2	580.5	580.5	580.5	581.6	583.8	581.6	580.5	581.6
180°	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5

TEST NUMBER: P1007347

CATALOG NUMBER: S122IP-B1080UB50-4F0-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°	35.7	33.5	35.7	36.8	36.8	36.8	36.8	36.8
92.5°	112.7	96.0	83.7	74.8	73.7	69.2	70.3	68.1
95°	292.5	224.4	177.5	152.9	138.4	129.5	126.1	127.3
97.5°	598.3	477.8	365.0	298.0	254.5	232.2	219.9	213.2
100°	1019.1	880.7	727.8	592.7	500.1	452.1	419.7	399.6
102.5°	1294.9	1290.4	1188.8	1043.7	941.0	850.6	808.2	779.1
105°	1356.2	1482.4	1496.9	1460.1	1390.8	1321.6	1273.6	1258.0
107.5°	1290.4	1477.9	1587.3	1632.0	1630.8	1620.8	1606.3	1580.6
110°	1200.0	1399.8	1542.7	1634.2	1682.2	1703.4	1713.4	1712.3

TEST NUMBER: P1007347

CATALOG NUMBER: S122IP-B1080UB50-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1117.4	1307.1	1462.3	1570.6	1642.0	1681.1	1702.3	1710.1
115°	1052.6	1224.5	1370.8	1485.7	1565.0	1616.3	1645.4	1655.4
117.5°	999.0	1153.1	1289.3	1398.7	1480.1	1534.8	1565.0	1572.8
120°	961.1	1099.5	1217.8	1319.4	1397.5	1450.0	1482.4	1493.5
122.5°	931.0	1054.9	1165.4	1254.7	1322.8	1374.1	1402.0	1410.9
125°	901.9	1016.9	1115.1	1198.9	1263.6	1306.0	1333.9	1342.8
127.5°	872.9	979.0	1072.7	1150.9	1207.8	1248.0	1272.5	1279.2
130°	845.0	941.0	1029.2	1102.9	1157.6	1195.5	1217.8	1226.8
132.5°	818.2	905.3	984.5	1052.6	1106.2	1144.2	1164.2	1172.1
135°	793.7	867.3	941.0	1003.5	1051.5	1088.3	1108.4	1112.9
137.5°	773.6	837.2	897.5	953.3	999.0	1031.4	1049.3	1056.0
140°	754.6	808.2	859.5	908.6	944.3	973.4	990.1	996.8
142.5°	739.0	782.5	824.9	864.0	897.5	923.1	937.7	937.7
145°	724.4	761.3	795.9	828.3	855.0	874.0	885.2	888.5
147.5°	713.3	743.4	771.3	795.9	819.3	835.0	842.8	845.0
150°	701.0	725.6	749.0	769.1	785.8	799.2	805.9	807.0
152.5°	688.7	711.1	730.0	746.8	759.1	770.2	774.7	774.7
155°	677.6	695.4	712.2	724.4	736.7	744.5	749.0	746.8
157.5°	664.2	679.8	694.3	704.4	713.3	720.0	722.2	722.2
160°	651.9	664.2	676.4	684.3	692.1	697.7	698.8	698.8
162.5°	639.6	649.7	659.7	665.3	673.1	676.4	677.6	676.4
165°	627.3	635.1	643.0	647.4	651.9	656.4	656.4	655.2
167.5°	615.1	621.8	627.3	631.8	634.0	636.3	636.3	635.1
170°	606.1	609.5	613.9	616.2	617.3	620.6	619.5	617.3
172.5°	596.1	598.3	601.7	602.8	603.9	605.0	603.9	602.8
175°	589.4	590.5	591.6	592.7	592.7	593.8	592.7	590.5
177.5°	583.8	583.8	584.9	584.9	584.9	584.9	583.8	581.6
180°	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5

(END OF REPORT)