

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: P1007674

Luminaire Tested: S124IP-B1205UB40-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124IP-B1205UB40-4F0-XX-W2A-4
Description: Define 4 Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

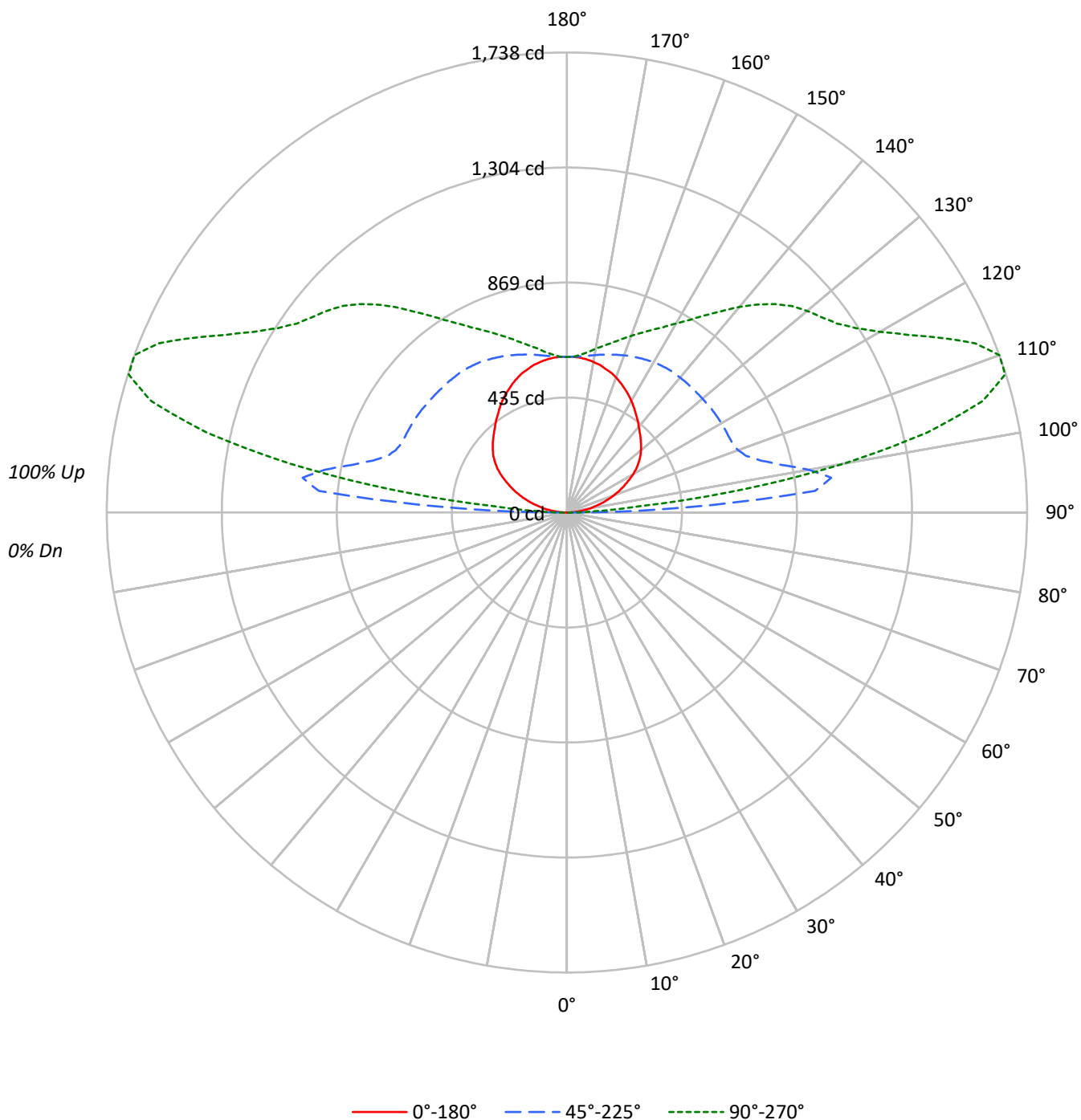
Lumens per Lamp: N/A
Luminaire Lumens: 4283.0 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

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: P1007674

CATALOG NUMBER: S124IP-B1205UB40-4F0-XX-W2A-4

Luminous Intensity Polar Plot



TEST NUMBER: P1007674

CATALOG NUMBER: S124IP-B1205UB40-4F0-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: P1007674

CATALOG NUMBER: S124IP-B1205UB40-4F0-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°	2.3	0.1
90°-100°	426.0	9.9
100°-110°	889.3	20.8
110°-120°	790.5	18.5
120°-130°	665.5	15.5
130°-140°	555.2	13.0
140°-150°	423.9	9.9
150°-160°	298.0	7.0
160°-170°	175.3	4.1
170°-180°	57.0	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.3	0.1
90°-120°	2105.8	49.2
90°-150°	3750.4	87.6
90°-180°	4281.0	100.0
0°-180°	4283.0	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	21	23	24	3
95°	38	120	941	466	282	42
105°	135	196	758	1631	1625	144
115°	238	298	676	1298	1560	236
125°	331	394	672	1104	1245	295
135°	394	469	666	980	1113	304
145°	454	520	663	827	909	285
155°	516	557	644	730	761	238
165°	562	580	618	654	664	159
175°	587	588	592	600	598	56
180°	588	588	588	588	588	

TEST NUMBER: P1007674

CATALOG NUMBER: S124IP-B1205UB40-4F0-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°	1.2	3.5	6.9	8.1	9.2	9.2	16.2	16.2	18.5	20.8	19.6
92.5°	16.2	23.1	35.8	53.1	73.9	103.9	175.5	287.5	396.1	452.6	376.4
95°	38.1	41.6	53.1	68.1	95.8	144.3	244.8	434.2	710.1	941.1	967.6
97.5°	63.5	63.5	73.9	87.8	112.0	153.6	233.3	396.1	680.1	1006.9	1213.6
100°	87.8	87.8	95.8	109.7	131.6	168.6	236.7	367.2	602.8	928.4	1224.0
102.5°	110.9	113.2	120.1	132.8	153.6	188.2	248.3	359.1	550.8	830.2	1137.4
105°	135.1	138.6	144.3	158.2	179.0	212.5	267.9	363.7	525.4	757.5	1028.8
107.5°	161.7	164.0	169.7	184.8	204.4	237.9	288.7	377.6	518.5	710.1	939.9
110°	188.2	190.5	196.3	210.2	230.9	262.1	312.9	393.8	520.8	688.2	876.4

TEST NUMBER: P1007674

CATALOG NUMBER: S124IP-B1205UB40-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	213.6	215.9	222.9	235.6	256.3	287.5	336.0	411.1	527.7	677.8	840.6
115°	237.9	241.3	249.4	261.0	282.9	314.1	360.3	429.5	536.9	675.5	821.0
117.5°	263.3	266.7	273.7	286.4	307.2	339.5	383.4	448.0	546.2	674.3	810.6
120°	288.7	291.0	299.1	311.8	331.4	363.7	407.6	467.7	556.6	674.3	802.5
122.5°	311.8	314.1	322.2	333.7	355.6	386.8	430.7	486.1	567.0	673.2	793.3
125°	331.4	336.0	342.9	355.6	377.6	409.9	451.5	504.6	577.4	672.0	782.9
127.5°	349.9	353.3	361.4	375.3	398.4	430.7	471.1	520.8	585.4	669.7	769.0
130°	364.9	369.5	378.7	396.1	418.0	451.5	490.7	535.8	594.7	668.6	756.3
132.5°	379.9	383.4	396.1	412.2	436.5	467.7	506.9	550.8	602.8	667.4	744.8
135°	393.8	398.4	409.9	429.5	453.8	483.8	521.9	563.5	610.8	666.3	733.2
137.5°	407.6	412.2	424.9	443.4	468.8	497.7	533.5	572.7	615.5	666.3	722.8
140°	422.6	426.1	438.8	458.4	482.7	510.4	545.0	582.0	621.2	665.1	714.8
142.5°	438.8	442.3	453.8	472.3	495.4	521.9	555.4	588.9	625.8	665.1	707.8
145°	453.8	457.3	468.8	485.0	506.9	532.3	562.3	593.5	627.0	662.8	699.8
147.5°	471.1	472.3	482.7	500.0	518.5	541.6	570.4	598.1	628.2	659.3	692.8
150°	487.3	488.4	497.7	511.5	528.9	550.8	576.2	601.6	628.2	655.9	684.7
152.5°	502.3	502.3	511.5	524.2	539.2	558.9	580.8	603.9	625.8	650.1	675.5
155°	516.2	517.3	524.2	535.8	548.5	565.8	585.4	605.1	623.5	644.3	666.3
157.5°	530.0	530.0	536.9	546.2	557.7	571.6	588.9	605.1	621.2	638.6	657.0
160°	542.7	542.7	547.3	555.4	564.6	577.4	591.2	605.1	617.8	631.6	646.6
162.5°	554.3	553.1	556.6	563.5	571.6	580.8	593.5	605.1	614.3	624.7	637.4
165°	562.3	562.3	564.6	570.4	576.2	583.1	593.5	602.8	609.7	617.8	627.0
167.5°	571.6	570.4	571.6	576.2	579.7	585.4	593.5	600.4	605.1	610.8	617.8
170°	577.4	576.2	577.4	580.8	583.1	586.6	592.4	598.1	600.4	603.9	608.5
172.5°	583.1	582.0	582.0	584.3	585.4	587.7	591.2	595.8	595.8	597.0	600.4
175°	586.6	585.4	585.4	586.6	587.7	587.7	590.1	593.5	592.4	592.4	594.7
177.5°	588.9	587.7	586.6	587.7	587.7	587.7	588.9	591.2	588.9	588.9	590.1
180°	587.7	587.7	587.7	587.7	587.7	587.7	587.7	587.7	587.7	587.7	587.7

TEST NUMBER: P1007674

CATALOG NUMBER: S124IP-B1205UB40-4F0-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°	20.8	21.9	23.1	23.1	24.2	25.4	24.2	24.2
92.5°	278.3	207.8	164.0	135.1	117.8	109.7	105.1	105.1
95°	855.6	676.7	521.9	409.9	353.3	317.5	296.8	281.7
97.5°	1232.1	1143.2	1016.1	886.8	808.3	739.0	704.4	676.7
100°	1392.6	1415.7	1359.1	1273.6	1173.2	1102.7	1068.1	1058.9
102.5°	1384.5	1521.9	1556.5	1533.4	1481.5	1435.3	1398.3	1391.4
105°	1293.3	1493.0	1607.3	1654.7	1657.0	1647.8	1631.6	1624.7
107.5°	1181.3	1397.2	1556.5	1653.5	1704.3	1725.1	1734.4	1735.5
110°	1082.0	1281.7	1449.2	1576.2	1658.2	1706.7	1727.4	1737.8

TEST NUMBER: P1007674

CATALOG NUMBER: S124IP-B1205UB40-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1009.2	1180.1	1336.0	1463.0	1558.8	1620.0	1651.2	1669.7
115°	965.3	1107.4	1242.5	1353.3	1444.5	1513.8	1550.8	1560.0
117.5°	939.9	1060.0	1169.7	1266.7	1347.5	1407.6	1446.8	1452.6
120°	923.8	1031.1	1123.5	1205.5	1271.3	1322.1	1352.2	1364.9
122.5°	909.9	1012.7	1094.7	1163.9	1217.1	1258.6	1282.9	1295.6
125°	893.7	993.0	1072.7	1136.2	1182.4	1215.9	1237.8	1244.8
127.5°	875.3	971.1	1050.8	1110.8	1157.0	1187.0	1205.5	1212.4
130°	852.2	943.4	1021.9	1083.1	1130.5	1159.3	1177.8	1184.7
132.5°	827.9	912.2	988.4	1049.6	1095.8	1129.3	1146.6	1153.5
135°	806.0	881.0	951.5	1009.2	1055.4	1087.7	1106.2	1113.1
137.5°	785.2	851.0	912.2	965.3	1009.2	1042.7	1057.7	1065.8
140°	767.9	822.1	874.1	922.6	963.0	988.4	1004.6	1013.8
142.5°	751.7	797.9	840.6	881.0	915.7	938.8	952.6	958.4
145°	736.7	776.0	810.6	842.9	871.8	891.4	903.0	908.8
147.5°	724.0	756.3	785.2	811.8	833.7	851.0	860.3	862.6
150°	712.5	739.0	762.1	782.9	801.4	816.4	823.3	824.5
152.5°	699.8	721.7	742.5	758.6	773.7	785.2	788.7	789.8
155°	687.0	705.5	722.8	736.7	748.2	757.5	760.9	760.9
157.5°	673.2	689.4	704.4	715.9	725.2	732.1	734.4	734.4
160°	660.5	673.2	685.9	695.1	702.1	709.0	710.1	710.1
162.5°	647.8	658.2	667.4	675.5	680.1	687.0	688.2	687.0
165°	636.2	643.2	651.3	657.0	661.6	666.3	665.1	664.0
167.5°	624.7	630.5	637.4	640.9	643.2	646.6	646.6	645.5
170°	614.3	617.8	622.4	625.8	628.2	629.3	628.2	628.2
172.5°	605.1	607.4	609.7	612.0	613.1	614.3	613.1	610.8
175°	597.0	598.1	600.4	600.4	600.4	602.8	600.4	598.1
177.5°	591.2	592.4	592.4	593.5	592.4	593.5	591.2	588.9
180°	587.7	587.7	587.7	587.7	587.7	587.7	587.7	587.7

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