

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: P334969

Luminaire Tested: **S125IP-S1205U830-4F0-1E-UDD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334969
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-S1205U830-4F0-1E-UDD-4
Description: DEFINE 5 INDIRECT LED LUMINAIRE, BATWING OPTIC
PENDANT MOUNT, 1205 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4082.2 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

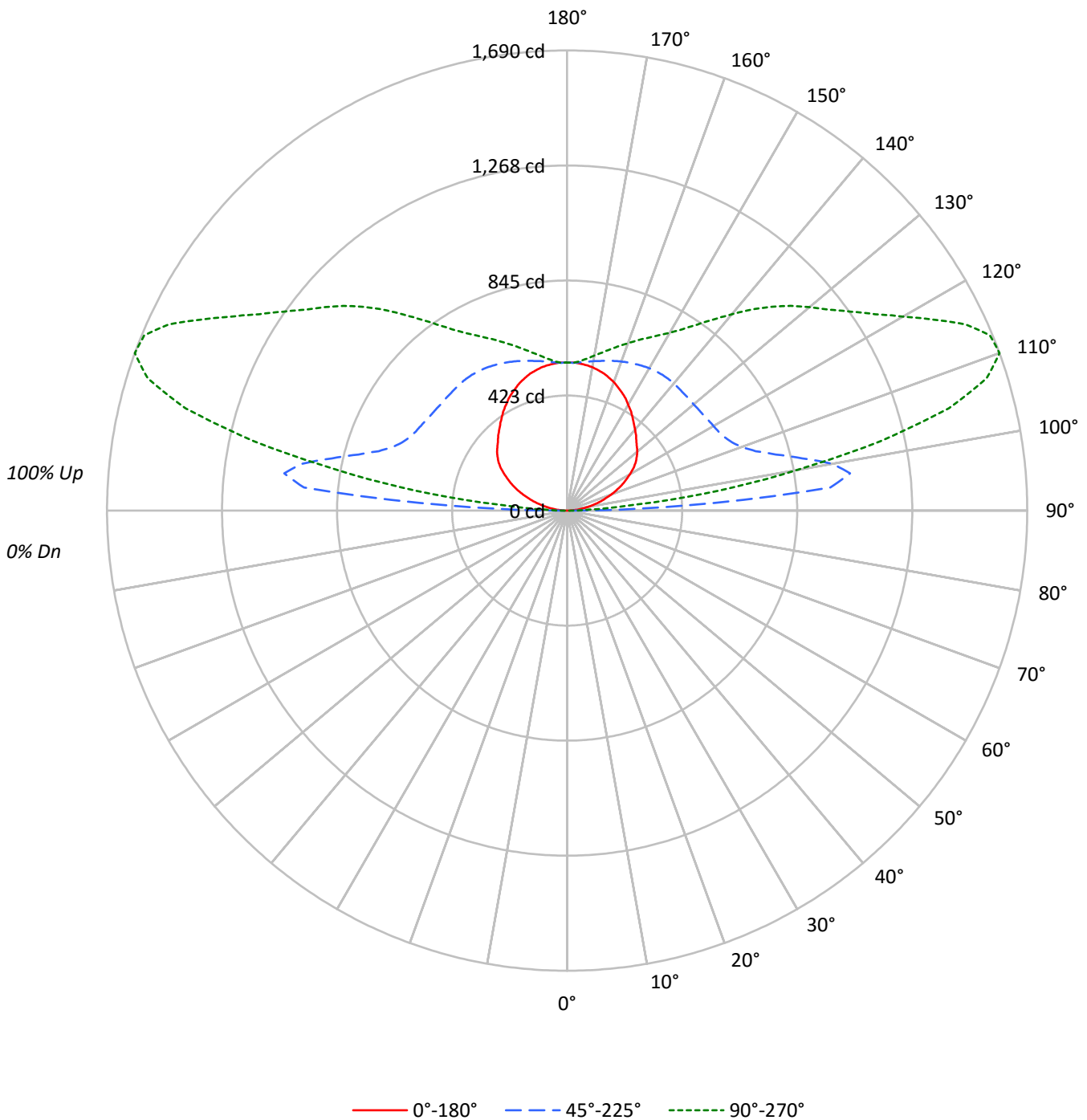
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334969

CATALOG NUMBER: S125IP-S1205U830-4F0-1E-UDD-4

Luminous Intensity Polar Plot





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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: P334969

CATALOG NUMBER: S125IP-S1205U830-4F0-1E-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°	2.2	0.1
90°-100°	395.1	9.7
100°-110°	852.1	20.9
110°-120°	794.4	19.5
120°-130°	643.4	15.8
130°-140°	516.6	12.7
140°-150°	389.7	9.5
150°-160°	274.4	6.7
160°-170°	161.7	4.0
170°-180°	52.6	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.2	0.1
90°-120°	2041.6	50.0
90°-150°	3591.4	88.0
90°-180°	4080.0	99.9
0°-180°	4082.2	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	10	18	23	25	3
95°	36	107	970	440	257	38
105°	124	173	794	1563	1451	130
115°	221	267	637	1374	1616	218
125°	307	359	611	1093	1274	272
135°	359	432	607	916	1058	279
145°	418	479	609	758	834	262
155°	478	514	594	671	700	220
165°	521	536	570	604	613	147
175°	542	542	546	553	551	51
180°	543	543	543	543	543	



TEST NUMBER: P334969

CATALOG NUMBER: S125IP-S1205U830-4F0-1E-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°	1.1	2.2	4.4	6.6	8.8	11.0	12.0	14.2	15.3	17.5	18.6
92.5°	16.4	19.7	30.7	47.1	70.1	109.5	184.0	308.8	444.6	437.0	352.7
95°	36.1	37.2	46.0	58.0	82.1	131.4	248.6	489.6	791.8	970.3	949.5
97.5°	55.9	57.0	63.5	75.6	97.5	133.6	214.7	399.7	726.1	1048.1	1186.1
100°	76.7	78.9	83.2	95.3	116.1	148.9	212.5	354.8	630.8	989.0	1262.8
102.5°	99.7	100.8	104.0	117.2	135.8	167.6	222.3	336.2	558.5	884.9	1216.8
105°	123.8	123.8	129.2	140.2	157.7	188.4	236.6	334.0	516.9	794.0	1108.3
107.5°	146.8	148.9	154.4	163.2	181.8	209.2	256.3	341.7	495.0	726.1	1005.4
110°	171.9	174.1	178.5	188.4	204.8	233.3	278.2	353.7	486.3	681.2	920.0



TEST NUMBER: P334969

CATALOG NUMBER: S125IP-S1205U830-4F0-1E-UDD-4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	197.1	199.3	202.6	212.5	228.9	256.3	299.0	369.1	486.3	654.9	856.4
115°	221.2	223.4	226.7	236.6	253.0	280.4	320.9	384.4	489.6	637.4	813.7
117.5°	243.1	246.4	249.7	259.6	278.2	304.5	342.8	401.9	495.0	627.5	785.3
120°	265.0	268.3	272.7	282.6	301.2	328.6	366.9	419.5	503.8	621.0	762.3
122.5°	288.0	290.2	293.5	303.4	324.2	351.6	389.9	439.2	511.5	615.5	742.5
125°	306.7	308.8	314.3	324.2	345.0	373.5	409.6	456.7	520.2	611.1	725.0
127.5°	322.0	325.3	331.8	343.9	365.8	394.3	429.3	473.1	530.1	608.9	708.6
130°	336.2	339.5	348.3	362.5	385.5	414.0	447.9	489.6	538.8	606.7	692.2
132.5°	347.2	351.6	362.5	378.9	403.0	431.5	465.5	503.8	548.7	606.7	679.0
135°	359.2	363.6	376.7	394.3	417.3	446.8	480.8	516.9	557.5	606.7	669.2
137.5°	374.6	377.8	389.9	407.4	430.4	461.1	491.7	526.8	566.2	607.8	659.3
140°	387.7	391.0	404.1	421.6	442.5	472.0	503.8	536.6	571.7	608.9	652.7
142.5°	403.0	405.2	417.3	434.8	454.5	481.9	511.5	542.1	575.0	610.0	647.3
145°	418.4	420.6	431.5	446.8	466.6	491.7	520.2	547.6	577.2	608.9	641.8
147.5°	434.8	435.9	445.7	460.0	477.5	500.5	525.7	550.9	578.3	606.7	636.3
150°	449.0	451.2	458.9	473.1	488.5	507.1	531.2	554.2	578.3	603.5	629.7
152.5°	464.4	465.5	472.0	484.1	498.3	514.7	536.6	556.4	577.2	599.1	622.1
155°	477.5	477.5	484.1	495.0	506.0	521.3	539.9	557.5	575.0	593.6	613.3
157.5°	489.6	489.6	495.0	504.9	514.7	526.8	543.2	558.5	572.8	588.1	605.6
160°	501.6	500.5	504.9	512.6	521.3	531.2	545.4	558.5	569.5	582.6	595.8
162.5°	511.5	510.4	514.7	521.3	527.9	535.6	547.6	557.5	566.2	576.1	587.0
165°	521.3	519.1	522.4	527.9	532.3	538.8	547.6	556.4	562.9	569.5	578.3
167.5°	527.9	526.8	529.0	532.3	535.6	539.9	547.6	554.2	557.5	562.9	569.5
170°	534.5	533.4	534.5	536.6	538.8	542.1	547.6	552.0	554.2	557.5	561.8
172.5°	538.8	536.6	537.7	539.9	541.0	542.1	546.5	549.8	549.8	550.9	554.2
175°	542.1	539.9	541.0	542.1	542.1	542.1	545.4	547.6	546.5	546.5	547.6
177.5°	544.3	542.1	542.1	543.2	542.1	542.1	544.3	545.4	543.2	543.2	544.3
180°	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2



TEST NUMBER: P334969

CATALOG NUMBER: S125IP-S1205U830-4F0-1E-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°	19.7	20.8	21.9	24.1	24.1	24.1	25.2	25.2
92.5°	237.7	170.9	127.0	106.2	88.7	85.4	83.2	81.0
95°	787.4	621.0	486.3	394.3	316.5	283.7	274.9	257.4
97.5°	1129.1	996.6	860.8	729.4	663.7	606.7	577.2	564.0
100°	1347.1	1293.4	1180.6	1066.7	991.2	912.3	871.8	854.3
102.5°	1420.5	1475.2	1435.8	1367.9	1285.8	1235.4	1190.5	1178.4
105°	1371.2	1521.2	1569.4	1557.4	1522.3	1486.2	1464.3	1451.1
107.5°	1270.4	1468.7	1584.7	1632.9	1642.8	1637.3	1626.4	1615.4
110°	1156.5	1364.6	1519.0	1612.1	1661.4	1682.2	1689.9	1689.9



TEST NUMBER: P334969

CATALOG NUMBER: S125IP-S1205U830-4F0-1E-UDD-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1066.7	1261.7	1418.3	1532.2	1609.9	1649.4	1671.3	1681.1
115°	994.4	1164.2	1314.2	1433.6	1519.0	1571.6	1602.3	1616.5
117.5°	944.1	1094.1	1225.5	1338.3	1424.8	1479.6	1510.3	1519.0
120°	904.6	1036.1	1156.5	1252.9	1333.9	1386.5	1416.1	1424.8
122.5°	875.1	994.4	1098.5	1187.2	1257.3	1304.4	1333.9	1341.6
125°	846.6	958.3	1053.6	1132.4	1193.8	1238.7	1262.8	1273.7
127.5°	817.0	923.2	1013.1	1087.5	1143.4	1183.9	1206.9	1211.3
130°	789.6	886.0	971.4	1042.6	1097.4	1133.5	1155.4	1162.0
132.5°	762.3	851.0	926.5	994.4	1049.2	1085.3	1105.1	1112.7
135°	739.3	814.8	884.9	947.3	995.5	1031.7	1051.4	1058.0
137.5°	718.4	782.0	842.2	897.0	940.8	974.7	993.3	1001.0
140°	702.0	753.5	803.9	849.9	890.4	918.9	935.3	940.8
142.5°	687.8	729.4	771.0	809.3	842.2	865.2	880.5	884.9
145°	675.7	709.7	743.6	773.2	799.5	818.1	830.2	834.5
147.5°	663.7	692.2	719.5	742.5	764.4	779.8	787.4	789.6
150°	653.8	677.9	698.7	718.4	734.9	748.0	752.4	753.5
152.5°	642.9	663.7	682.3	696.5	709.7	719.5	723.9	725.0
155°	631.9	649.5	664.8	676.8	687.8	695.4	698.7	699.8
157.5°	621.0	636.3	648.4	658.2	667.0	673.5	676.8	676.8
160°	610.0	621.0	631.9	639.6	647.3	652.7	654.9	653.8
162.5°	598.0	607.8	616.6	623.2	628.6	633.0	633.0	633.0
165°	587.0	594.7	601.3	606.7	611.1	613.3	613.3	613.3
167.5°	576.1	581.5	587.0	591.4	593.6	595.8	594.7	594.7
170°	567.3	570.6	573.9	576.1	578.3	579.4	579.4	578.3
172.5°	557.5	560.7	562.9	564.0	564.0	566.2	564.0	562.9
175°	550.9	550.9	553.1	553.1	553.1	554.2	552.0	550.9
177.5°	545.4	546.5	546.5	546.5	545.4	546.5	543.2	543.2
180°	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2

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