

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: P1007770

Luminaire Tested: S125IP-B1090UB27-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007770
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-B1090UB27-4F0-XX-W2A-4
Description: Define 5 Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

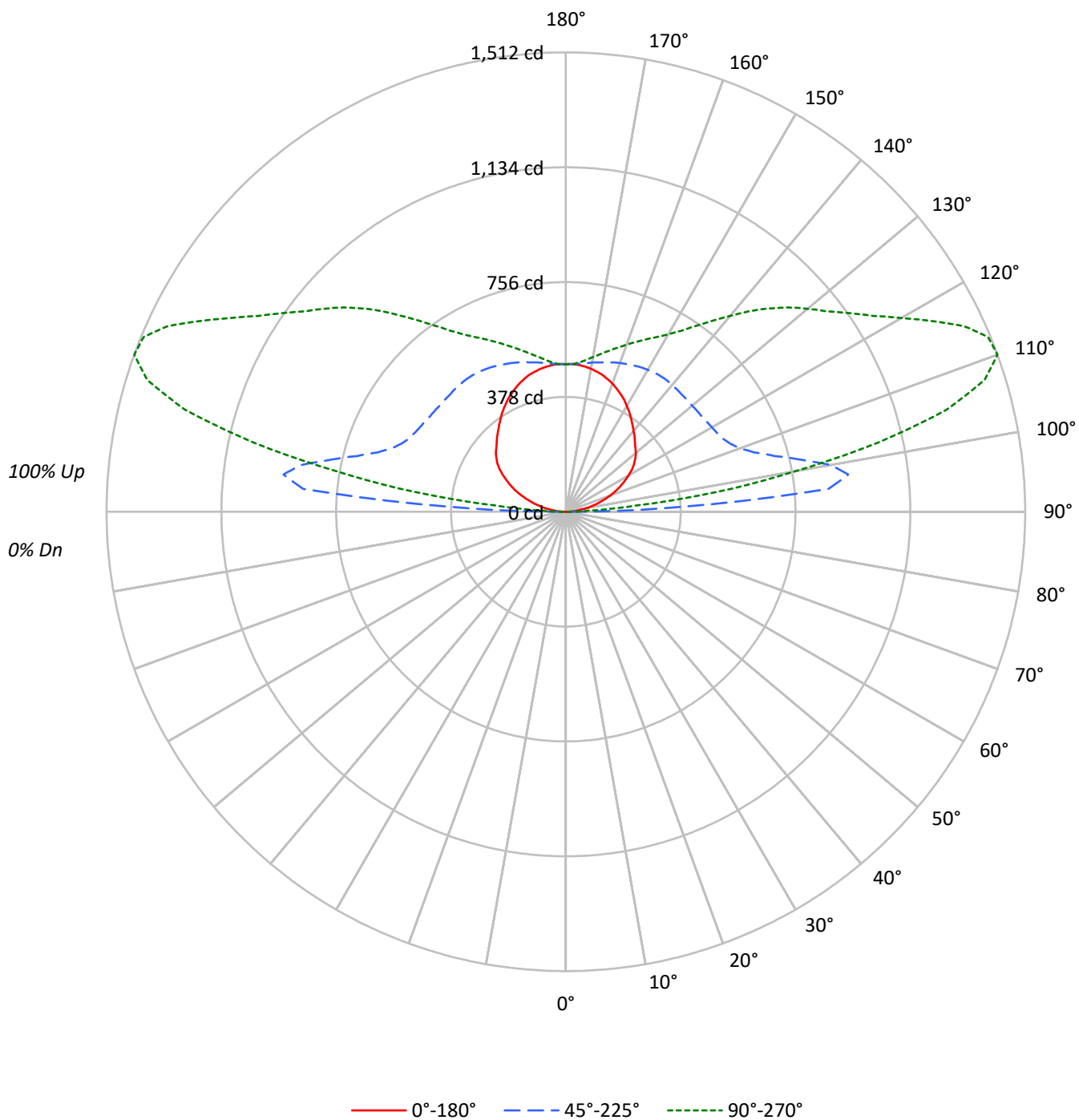
Lumens per Lamp: N/A
Luminaire Lumens: 3652.0 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

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: P1007770

CATALOG NUMBER: S125IP-B1090UB27-4F0-XX-W2A-4

Luminous Intensity Polar Plot



TEST NUMBER: P1007770

CATALOG NUMBER: S125IP-B1090UB27-4F0-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: P1007770

CATALOG NUMBER: S125IP-B1090UB27-4F0-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°	353.5	9.7
100°-110°	762.3	20.9
110°-120°	710.7	19.5
120°-130°	575.6	15.8
130°-140°	462.2	12.7
140°-150°	348.6	9.5
150°-160°	245.5	6.7
160°-170°	144.7	4.0
170°-180°	47.0	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°	1826.5	50.0
90°-150°	3212.8	88.0
90°-180°	3650.0	99.9
0°-180°	3652.0	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	22	2
95°	32	96	868	394	230	34
105°	111	155	710	1399	1298	117
115°	198	239	570	1229	1446	195
125°	274	321	547	978	1140	244
135°	321	386	543	820	946	249
145°	374	429	545	678	747	235
155°	427	460	531	600	626	197
165°	466	479	510	540	549	131
175°	485	485	489	495	493	46
180°	486	486	486	486	486	

TEST NUMBER: P1007770

CATALOG NUMBER: S125IP-B1090UB27-4F0-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	3.9	5.9	7.8	9.8	10.8	12.7	13.7	15.7	16.7
92.5°	14.7	17.6	27.4	42.1	62.7	98.0	164.6	276.3	397.8	390.9	315.5
95°	32.3	33.3	41.2	51.9	73.5	117.6	222.4	438.0	708.4	868.1	849.5
97.5°	50.0	50.9	56.8	67.6	87.2	119.5	192.0	357.6	649.6	937.6	1061.1
100°	68.6	70.5	74.5	85.2	103.9	133.2	190.1	317.4	564.3	884.7	1129.7
102.5°	89.2	90.1	93.1	104.8	121.5	149.9	198.9	300.8	499.7	791.7	1088.5
105°	110.7	110.7	115.6	125.4	141.1	168.5	211.6	298.8	462.4	710.3	991.5
107.5°	131.3	133.2	138.1	146.0	162.6	187.1	229.3	305.7	442.9	649.6	899.4
110°	153.8	155.8	159.7	168.5	183.2	208.7	248.9	316.5	435.0	609.4	823.0



TEST NUMBER: P1007770

CATALOG NUMBER: S125IP-B1090UB27-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	176.4	178.3	181.3	190.1	204.8	229.3	267.5	330.2	435.0	585.9	766.2
115°	197.9	199.9	202.8	211.6	226.3	250.8	287.1	343.9	438.0	570.2	728.0
117.5°	217.5	220.4	223.4	232.2	248.9	272.4	306.7	359.6	442.9	561.4	702.5
120°	237.1	240.0	244.0	252.8	269.4	293.9	328.2	375.3	450.7	555.5	681.9
122.5°	257.7	259.6	262.6	271.4	290.0	314.5	348.8	392.9	457.6	550.6	664.3
125°	274.3	276.3	281.2	290.0	308.6	334.1	366.4	408.6	465.4	546.7	648.6
127.5°	288.1	291.0	296.9	307.6	327.2	352.7	384.1	423.3	474.2	544.8	633.9
130°	300.8	303.7	311.6	324.3	344.9	370.4	400.7	438.0	482.0	542.8	619.2
132.5°	310.6	314.5	324.3	339.0	360.6	386.0	416.4	450.7	490.9	542.8	607.5
135°	321.4	325.3	337.0	352.7	373.3	399.7	430.1	462.4	498.7	542.8	598.6
137.5°	335.1	338.0	348.8	364.5	385.0	412.5	439.9	471.3	506.5	543.8	589.8
140°	346.8	349.8	361.5	377.2	395.8	422.3	450.7	480.1	511.4	544.8	583.9
142.5°	360.6	362.5	373.3	389.0	406.6	431.1	457.6	485.0	514.4	545.7	579.0
145°	374.3	376.2	386.0	399.7	417.4	439.9	465.4	489.9	516.3	544.8	574.1
147.5°	389.0	389.9	398.8	411.5	427.2	447.8	470.3	492.8	517.3	542.8	569.2
150°	401.7	403.7	410.5	423.3	437.0	453.6	475.2	495.8	517.3	539.9	563.4
152.5°	415.4	416.4	422.3	433.1	445.8	460.5	480.1	497.7	516.3	535.9	556.5
155°	427.2	427.2	433.1	442.9	452.7	466.4	483.0	498.7	514.4	531.0	548.7
157.5°	438.0	438.0	442.9	451.7	460.5	471.3	486.0	499.7	512.4	526.1	541.8
160°	448.7	447.8	451.7	458.5	466.4	475.2	487.9	499.7	509.5	521.2	533.0
162.5°	457.6	456.6	460.5	466.4	472.2	479.1	489.9	498.7	506.5	515.4	525.2
165°	466.4	464.4	467.3	472.2	476.2	482.0	489.9	497.7	503.6	509.5	517.3
167.5°	472.2	471.3	473.2	476.2	479.1	483.0	489.9	495.8	498.7	503.6	509.5
170°	478.1	477.1	478.1	480.1	482.0	485.0	489.9	493.8	495.8	498.7	502.6
172.5°	482.0	480.1	481.1	483.0	484.0	485.0	488.9	491.8	491.8	492.8	495.8
175°	485.0	483.0	484.0	485.0	485.0	485.0	487.9	489.9	488.9	488.9	489.9
177.5°	486.9	485.0	485.0	486.0	485.0	485.0	486.9	487.9	486.0	486.0	486.9
180°	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0

TEST NUMBER: P1007770

CATALOG NUMBER: S125IP-B1090UB27-4F0-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°	17.6	18.6	19.6	21.6	21.6	21.6	22.5	22.5
92.5°	212.6	152.8	113.7	95.0	79.4	76.4	74.5	72.5
95°	704.5	555.5	435.0	352.7	283.2	253.8	245.9	230.2
97.5°	1010.1	891.6	770.1	652.5	593.7	542.8	516.3	504.6
100°	1205.1	1157.1	1056.2	954.3	886.7	816.1	779.9	764.2
102.5°	1270.8	1319.7	1284.5	1223.7	1150.2	1105.2	1065.0	1054.2
105°	1226.7	1360.9	1404.0	1393.2	1361.9	1329.5	1309.9	1298.2
107.5°	1136.5	1313.9	1417.7	1460.8	1469.6	1464.8	1455.0	1445.2
110°	1034.6	1220.8	1358.9	1442.2	1486.3	1504.9	1511.8	1511.8

TEST NUMBER: P1007770

CATALOG NUMBER: S125IP-B1090UB27-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	954.3	1128.7	1268.8	1370.7	1440.3	1475.5	1495.1	1503.9
115°	889.6	1041.5	1175.7	1282.5	1358.9	1406.0	1433.4	1446.1
117.5°	844.6	978.8	1096.4	1197.3	1274.7	1323.7	1351.1	1358.9
120°	809.3	926.9	1034.6	1120.9	1193.4	1240.4	1266.8	1274.7
122.5°	782.8	889.6	982.7	1062.1	1124.8	1166.9	1193.4	1200.2
125°	757.4	857.3	942.5	1013.1	1067.9	1108.1	1129.7	1139.5
127.5°	730.9	825.9	906.3	972.9	1022.9	1059.1	1079.7	1083.6
130°	706.4	792.6	869.1	932.7	981.7	1014.1	1033.7	1039.5
132.5°	681.9	761.3	828.9	889.6	938.6	970.9	988.6	995.4
135°	661.3	728.9	791.7	847.5	890.6	922.9	940.6	946.5
137.5°	642.7	699.6	753.4	802.4	841.6	872.0	888.6	895.5
140°	628.0	674.1	719.1	760.3	796.6	822.0	836.7	841.6
142.5°	615.3	652.5	689.8	724.0	753.4	774.0	787.7	791.7
145°	604.5	634.9	665.3	691.7	715.2	731.9	742.7	746.6
147.5°	593.7	619.2	643.7	664.3	683.9	697.6	704.5	706.4
150°	584.9	606.5	625.1	642.7	657.4	669.2	673.1	674.1
152.5°	575.1	593.7	610.4	623.1	634.9	643.7	647.6	648.6
155°	565.3	581.0	594.7	605.5	615.3	622.2	625.1	626.1
157.5°	555.5	569.2	580.0	588.8	596.7	602.6	605.5	605.5
160°	545.7	555.5	565.3	572.2	579.0	583.9	585.9	584.9
162.5°	535.0	543.8	551.6	557.5	562.4	566.3	566.3	566.3
165°	525.2	532.0	537.9	542.8	546.7	548.7	548.7	548.7
167.5°	515.4	520.3	525.2	529.1	531.0	533.0	532.0	532.0
170°	507.5	510.5	513.4	515.4	517.3	518.3	518.3	517.3
172.5°	498.7	501.6	503.6	504.6	504.6	506.5	504.6	503.6
175°	492.8	492.8	494.8	494.8	494.8	495.8	493.8	492.8
177.5°	487.9	488.9	488.9	488.9	487.9	488.9	486.0	486.0
180°	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0

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