Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P1012228

Luminaire Tested: S123RDIP-B1000D585UB50-4F0-XX-W2A-A4

Issue Date: 5/6/2025

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1012228
	REPORT IS A COMBINATION OF REPORTS P992875 AND P1007351
Test Lab:	INNOVATION CENTER
Issue Date:	5/6/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	NEO-RAY
Catalog Number:	S123RDIP-B1000D585UB50-4F0-XX-W2A-A4
Description:	Define 3 Regressed Direct/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:	5827.0 lumens
Efficiency:	N/A
Efficacy:	93.7 lumens/watt
Spacing Criteria (0/90/45):	1.22 / 1.2 / 1.34
Luminous Opening:	Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type:	Semi-Direct

Input Watts (W):	62.2
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

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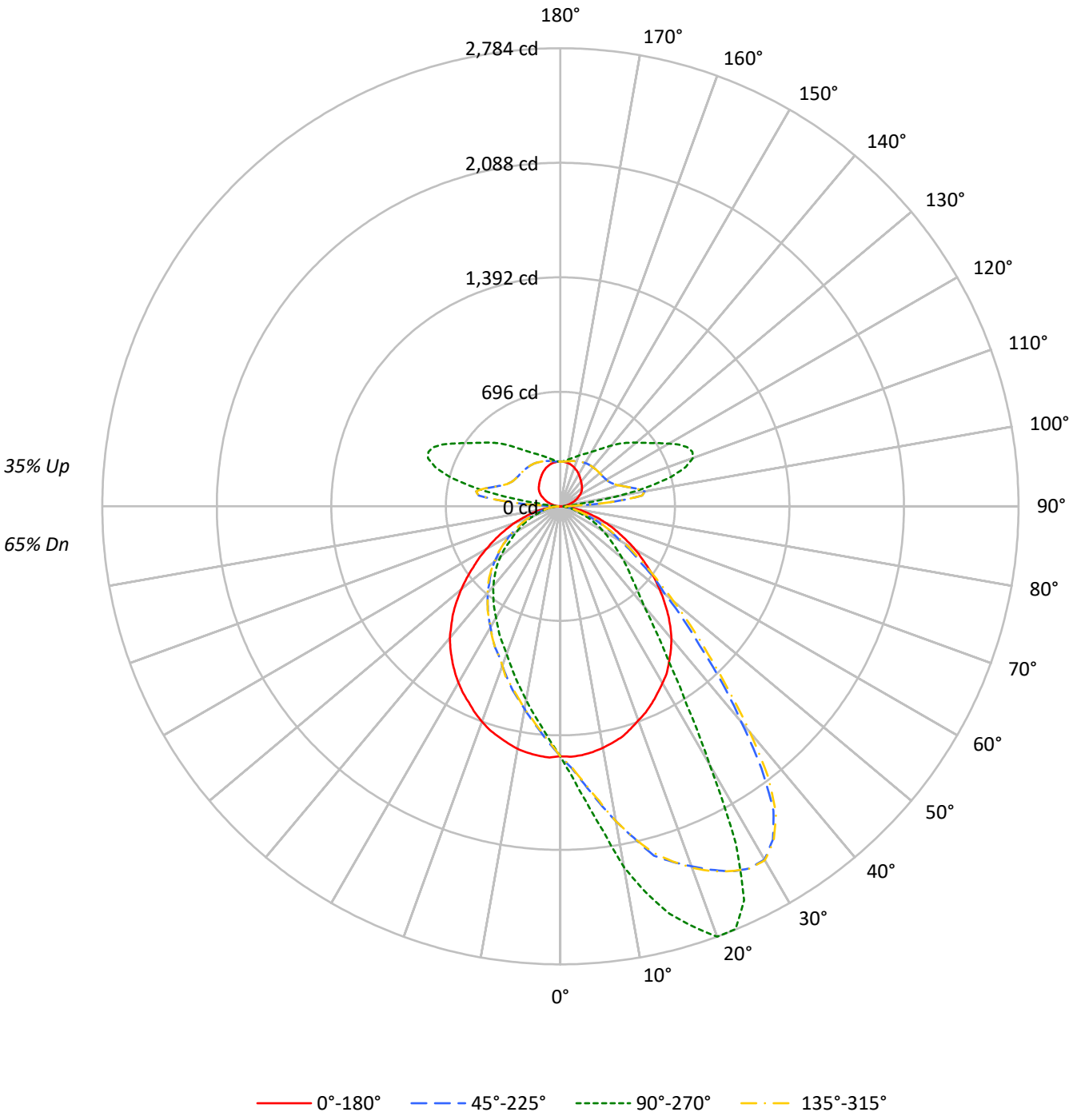
Luminous Intensity Polar Plot



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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	0
RCR																		
0	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70	65
1	102	98	94	91	96	92	89	86	82	79	77	72	70	69	63	62	61	56
2	93	86	80	75	88	81	76	72	72	68	65	64	61	58	56	54	52	48
3	86	77	69	64	80	72	66	61	65	60	56	57	54	50	51	48	45	42
4	79	68	61	55	74	65	58	52	58	52	48	52	47	44	46	42	40	37
5	73	61	53	47	68	58	51	46	52	46	42	47	42	38	42	38	35	32
6	67	55	47	42	63	53	45	40	47	41	37	43	38	34	38	34	31	29
7	62	50	42	37	59	48	41	36	43	37	33	39	34	30	35	31	28	26
8	58	46	38	33	55	44	37	32	40	34	30	36	31	27	32	28	25	23
9	54	42	35	30	51	40	33	29	36	31	27	33	28	25	30	26	23	21
10	51	39	32	27	48	37	30	26	34	28	24	31	26	23	28	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16353	16353	16353	16353
5°	16365	18834	16407	13972
10°	16221	22735	16291	12205
15°	16054	25803	16054	10761
20°	15725	27832	15814	9546
25°	15484	26443	15453	8710
30°	15204	18321	15172	7893
35°	14866	11763	14798	7277
40°	14447	8306	14375	6665
45°	13715	6647	13696	6067
50°	12817	5561	12775	5369
55°	11808	4583	11714	4552
60°	10817	3788	10709	3871
65°	9653	3031	9715	3281
70°	8581	2107	8811	2652
75°	7273	1563	7570	2040
80°	5793	1035	6287	1529
85°	4121	490	4495	951

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 30°
Vertical Angle: 45°
Luminance: 21832 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.2	2.6
10°-20°	467.0	8.0
20°-30°	735.6	12.6
30°-40°	764.9	13.1
40°-50°	654.4	11.2
50°-60°	498.9	8.6
60°-70°	319.6	5.5
70°-80°	153.1	2.6
80°-90°	41.8	0.7
90°-100°	147.3	2.5
100°-110°	431.4	7.4
110°-120°	421.3	7.2
120°-130°	335.5	5.8
130°-140°	264.7	4.5
140°-150°	197.5	3.4
150°-160°	137.7	2.4
160°-170°	80.9	1.4
170°-180°	26.3	0.5
0°-30°	1351.8	23.2
0°-40°	2116.7	36.3
0°-60°	3270.0	56.1
0°-90°	3784.5	64.9
90°-120°	1000.0	17.2
90°-150°	1797.7	30.9
90°-180°	2043.0	35.1
0°-180°	5827.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1519	1519	1519	1519	1519	
5°	1518	1804	1522	1338	1518	144
15°	1450	2564	1450	1069	1450	408
25°	1319	2642	1316	870	1319	608
35°	1151	1146	1146	709	1151	720
45°	924	611	922	558	924	711
55°	652	384	646	381	652	584
65°	399	221	402	239	399	399
75°	191	94	199	122	191	206
85°	43	22	47	43	43	48
90°	1	16	1	16	1	4
95°	19	64	19	64	19	20
105°	64	699	64	699	64	68
115°	113	850	113	850	113	112
125°	157	671	157	671	157	139
135°	184	544	184	544	184	142
145°	209	425	209	425	209	131
155°	238	352	238	352	238	109
165°	260	307	260	307	260	73
175°	271	276	271	276	271	26
180°	272	272	272	272	272	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2
2.5°	1523.1	1533.6	1541.4	1546.6	1559.6	1567.4	1573.9	1585.6	1585.6	1588.2	1593.4
5°	1517.9	1540.1	1555.7	1576.5	1603.8	1616.8	1635.0	1650.6	1672.7	1684.4	1696.1
7.5°	1506.2	1537.5	1570.0	1601.2	1641.5	1667.5	1685.7	1726.1	1754.7	1789.8	1817.1
10°	1490.6	1533.6	1575.2	1623.3	1677.9	1717.0	1744.3	1797.6	1852.2	1901.7	1943.3
12.5°	1471.1	1523.1	1583.0	1641.5	1718.3	1757.3	1801.5	1867.8	1945.9	2008.3	2064.2
15°	1450.3	1510.1	1577.8	1649.3	1745.6	1800.2	1863.9	1944.6	2031.7	2121.5	2198.2
17.5°	1417.8	1493.2	1568.7	1672.7	1785.9	1818.4	1873.0	1983.6	2091.6	2172.2	2265.9
20°	1385.3	1469.8	1564.8	1658.4	1780.7	1856.1	1906.9	2023.9	2139.7	2237.2	2327.0
22.5°	*1355.4*	*1443.8*	*1542.7*	*1661.0*	*1775.5*	*1850.9*	*1914.7*	*2036.9*	*2170.9*	*2280.2*	*2390.7*
25°	1318.9	1415.2	1524.4	1636.3	1775.5	1832.7	1903.0	2044.7	2186.5	2312.7	2449.3
27.5°	1279.9	1377.5	1485.4	1599.9	1727.4	1811.9	1880.8	2033.0	2206.0	2341.3	2481.8
30°	1240.9	1341.0	1445.1	1547.9	1690.9	1771.6	1850.9	2018.7	2216.4	2371.2	2479.2
32.5°	1203.2	1287.7	1390.5	1490.6	1632.4	1720.9	1810.6	2004.4	2220.3	2350.4	2402.4
35°	1151.1	1239.6	1322.8	1429.5	1572.6	1659.7	1765.1	2003.1	2203.4	2284.1	2258.1
37.5°	1103.0	1177.2	1256.5	1351.5	1498.4	1611.6	1720.9	1969.3	2147.5	2152.7	2005.7
40°	1049.7	1110.8	1177.2	1277.3	1436.0	1547.9	1666.2	1917.3	2046.0	1969.3	1710.4
42.5°	988.5	1043.2	1095.2	1192.8	1365.8	1490.6	1618.1	1852.2	1899.1	1722.2	1452.9
45°	923.5	967.7	1015.9	1118.6	1291.6	1415.2	1542.7	1752.1	1703.9	1454.2	1198.0
47.5°	855.9	893.6	940.4	1034.1	1212.3	1338.4	1459.4	1609.0	1486.7	1218.8	1004.2
50°	788.2	818.2	863.7	959.9	1131.6	1246.1	1358.0	1455.5	1283.8	1045.8	829.9
52.5°	721.9	745.3	792.1	874.1	1040.6	1149.8	1230.5	1268.2	1093.9	863.7	720.6
55°	651.7	677.7	708.9	792.1	957.3	1038.0	1091.3	1090.0	910.5	732.3	595.7
57.5°	584.0	607.4	634.8	718.0	852.0	906.6	952.1	930.0	759.6	599.6	511.2
60°	524.2	537.2	567.1	637.4	738.8	785.6	811.7	773.9	620.4	506.0	422.7
62.5°	459.2	472.2	496.9	563.2	625.6	650.4	672.5	624.3	512.5	412.3	361.6
65°	399.3	416.2	431.8	485.2	519.0	548.9	546.3	506.0	400.6	335.6	294.0
67.5°	347.3	353.8	366.8	399.3	414.9	437.0	438.3	392.8	322.6	273.2	248.4
70°	291.4	297.9	307.0	322.6	333.0	338.2	335.6	295.3	243.2	213.3	191.2
72.5°	243.2	241.9	248.4	248.4	258.8	257.5	249.7	218.5	184.7	160.0	147.0
75°	191.2	192.5	193.8	191.2	187.3	182.1	175.6	152.2	130.1	118.4	106.7
77.5°	149.6	147.0	148.3	139.2	134.0	128.8	119.7	108.0	89.7	87.1	81.9
80°	106.7	105.4	104.1	100.2	88.4	83.2	76.7	70.2	66.3	63.7	62.4
82.5°	71.5	71.5	68.9	61.1	54.6	50.7	49.4	46.8	42.9	42.9	41.6
85°	42.9	41.6	39.0	31.2	27.3	27.3	27.3	27.3	24.7	24.7	23.4
87.5°	16.9	15.6	11.7	11.7	10.4	10.4	10.4	9.1	9.1	7.8	7.8
90°	1.1	2.2	3.3	4.9	6.0	6.6	7.1	8.8	10.4	12.1	13.7
92.5°	8.2	12.1	17.6	22.5	28.0	33.0	37.9	55.5	84.6	113.2	102.2
95°	18.7	20.3	26.4	35.7	50.0	60.8	71.5	118.2	200.1	290.2	325.9
97.5°	29.7	30.2	35.2	43.4	57.7	69.5	81.3	127.5	222.6	374.3	501.3
100°	40.7	41.2	45.1	52.8	66.0	76.7	87.4	125.9	207.2	351.8	520.5
102.5°	52.2	53.3	56.6	63.8	75.3	84.9	94.5	128.1	194.0	318.8	484.8
105°	63.8	65.4	68.7	75.3	85.7	94.2	102.8	132.5	189.1	293.0	441.9
107.5°	75.9	77.5	80.8	87.4	97.3	105.2	113.2	139.6	188.0	274.3	404.0
110°	89.0	90.7	93.4	99.5	108.8	116.5	124.2	149.0	190.7	264.4	372.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	101.1	102.8	105.5	111.6	120.9	128.4	135.8	158.3	196.2	258.9	351.8
115°	112.7	114.9	118.2	123.7	133.0	140.4	147.9	168.7	202.3	258.3	338.0
117.5°	124.2	127.0	129.7	134.7	145.1	152.0	158.9	179.7	210.0	258.9	328.7
120°	136.3	138.0	140.7	146.2	156.7	163.6	170.4	190.2	218.8	261.1	322.7
122.5°	146.8	148.4	151.2	157.2	167.1	174.5	181.9	201.2	227.0	264.9	318.8
125°	156.7	157.8	161.1	167.1	177.5	185.0	192.4	211.6	235.8	268.8	315.5
127.5°	164.3	166.0	169.8	175.9	187.4	194.9	202.3	221.0	243.0	273.2	313.9
130°	171.5	173.1	178.1	184.7	196.2	203.6	211.1	229.2	250.1	277.6	312.2
132.5°	177.0	179.2	184.7	192.9	204.5	211.6	218.8	236.4	256.7	280.9	311.7
135°	183.6	185.8	191.8	200.1	211.6	219.0	226.5	243.5	262.2	284.2	311.1
137.5°	189.6	191.8	197.9	206.7	218.2	225.1	232.0	248.4	266.6	286.4	310.0
140°	195.7	198.4	203.9	212.7	223.7	230.6	237.5	253.4	269.9	288.6	309.5
142.5°	202.3	204.5	210.5	218.2	229.2	235.6	241.9	257.2	273.2	290.2	308.4
145°	209.4	211.1	216.0	224.3	233.6	239.9	246.2	260.5	275.4	290.8	307.3
147.5°	216.6	217.7	222.6	229.8	239.1	244.6	250.1	263.3	277.0	290.8	305.6
150°	223.7	224.3	228.7	235.8	243.5	248.4	253.4	266.0	277.6	290.8	303.4
152.5°	230.9	230.9	235.3	241.3	247.9	252.6	257.2	267.7	278.7	289.1	300.7
155°	238.0	238.0	241.3	246.8	252.8	256.6	260.5	269.9	278.7	288.0	297.4
157.5°	243.5	244.0	246.8	251.7	257.2	260.2	263.3	271.0	279.2	286.4	294.6
160°	250.1	250.1	252.3	256.7	260.5	263.2	266.0	272.6	279.2	285.3	291.3
162.5°	255.0	255.0	256.7	260.0	263.3	265.5	267.7	273.2	278.7	283.1	288.0
165°	260.0	259.4	260.5	263.3	265.5	267.4	269.3	273.7	277.6	280.9	284.7
167.5°	263.8	263.3	263.8	266.0	267.7	269.0	270.4	273.7	277.0	278.7	281.4
170°	267.1	266.0	266.6	268.2	269.3	269.8	270.4	273.2	275.4	276.5	278.1
172.5°	269.3	268.8	268.8	269.9	270.4	270.7	271.0	273.2	274.8	274.8	275.4
175°	271.0	270.4	269.9	271.0	271.0	271.2	271.5	272.6	273.7	273.2	273.2
177.5°	272.1	271.5	271.0	271.5	271.5	271.5	271.5	272.1	273.2	272.1	271.5
180°	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2
2.5°	1603.8	1603.8	1615.5	1627.2	1620.7	1624.6	1638.9	1633.7	1644.1	1642.8	1646.7
5°	1724.8	1739.1	1750.8	1775.5	1779.4	1775.5	1800.2	1806.7	1818.4	1804.1	1810.6
7.5°	1861.3	1891.2	1919.9	1956.3	1968.0	1970.6	1983.6	2001.8	2017.4	1988.8	2003.1
10°	1994.0	2039.5	2098.1	2130.6	2159.2	2169.6	2180.0	2191.7	2209.9	2226.8	2213.8
12.5°	2137.1	2203.4	2259.4	2317.9	2353.0	2349.1	2379.0	2386.8	2401.1	2405.0	2410.2
15°	2254.2	2347.8	2382.9	2470.1	2477.9	2503.9	2537.7	2567.6	2571.5	2563.7	2563.7
17.5°	2366.0	2446.7	2509.1	2579.3	2593.6	2615.8	2658.7	2673.0	2678.2	2676.9	2676.9
20°	2457.1	2510.4	2615.8	2674.3	2697.7	2726.3	2756.2	2774.4	2778.3	2783.5	2775.7
22.5°	*2516.9*	*2597.5*	*2683.4*	*2731.5*	*2751.0*	*2761.4*	*2780.9*	*2786.1*	*2779.6*	*2780.9*	*2782.2*
25°	2563.7	2643.1	2695.1	2708.1	2706.8	2693.8	2679.5	2654.8	2652.2	2641.8	2621.0
27.5°	2576.7	2606.6	2600.1	2546.8	2493.5	2488.3	2402.4	2355.6	2302.3	2310.1	2280.2
30°	2506.5	2467.5	2375.1	2239.8	2183.9	2092.9	1996.6	1896.5	1857.4	1814.5	1893.9
32.5°	2334.8	2195.6	2031.7	1856.1	1762.5	1681.8	1579.1	1506.2	1464.6	1429.5	1497.1
35°	2076.0	1858.7	1641.5	1475.0	1398.3	1325.4	1229.2	1192.8	1140.7	1145.9	1152.4
37.5°	1743.0	1503.6	1339.7	1175.9	1125.1	1095.2	1025.0	969.0	950.8	945.6	945.6
40°	1430.8	1234.4	1088.7	959.9	920.9	896.2	840.3	814.3	794.7	789.5	796.0
42.5°	1183.7	1015.9	902.7	816.9	789.5	758.3	734.9	702.4	698.5	689.4	701.1
45°	993.8	848.1	763.5	701.1	677.7	666.0	640.0	620.4	612.6	611.3	620.4
47.5°	842.9	729.7	655.6	616.5	598.3	586.6	564.5	556.7	548.9	551.5	547.6
50°	707.6	623.0	574.9	539.8	528.1	516.4	502.1	494.3	490.4	490.4	489.1
52.5°	607.4	537.2	506.0	473.5	468.3	461.8	446.1	440.9	434.4	433.1	438.3
55°	520.3	472.2	440.9	421.4	416.2	403.2	396.7	390.2	386.3	383.7	385.0
57.5°	444.8	408.4	387.6	370.7	361.6	356.4	344.7	343.4	340.8	340.8	339.5
60°	382.4	356.4	331.7	321.3	314.8	308.3	307.0	299.2	295.3	297.9	296.6
62.5°	323.9	303.1	288.8	277.1	273.2	267.9	264.0	261.4	257.5	258.8	258.8
65°	270.6	253.6	243.2	232.8	231.5	226.3	225.0	222.4	222.4	221.1	223.7
67.5°	222.4	210.7	201.6	195.1	191.2	192.5	187.3	183.4	183.4	182.1	186.0
70°	176.9	170.4	161.3	153.5	148.3	148.3	141.8	140.5	140.5	140.5	139.2
72.5°	136.6	124.9	121.0	118.4	118.4	118.4	115.8	115.8	114.5	115.8	114.5
75°	101.5	100.2	97.6	96.3	96.3	95.0	93.7	93.7	93.7	93.7	93.7
77.5°	79.3	79.3	76.7	75.4	75.4	75.4	74.1	74.1	72.8	72.8	72.8
80°	58.5	58.5	55.9	55.9	55.9	54.6	54.6	54.6	55.9	54.6	54.6
82.5°	40.3	40.3	39.0	40.3	39.0	37.7	37.7	37.7	36.4	37.7	37.7
85°	23.4	23.4	22.1	20.8	22.1	22.1	20.8	22.1	20.8	22.1	20.8
87.5°	9.1	7.8	7.8	7.8	6.5	7.8	6.5	6.5	7.8	6.5	7.8
90°	13.2	13.7	14.3	14.8	15.4	15.9	15.4	15.9	16.5	15.9	16.5
92.5°	76.4	54.4	42.3	36.8	34.9	33.0	31.9	29.7	30.2	29.1	30.2
95°	264.4	197.9	134.1	105.0	95.1	85.2	74.8	69.8	66.0	63.8	66.0
97.5°	518.3	454.6	343.0	270.4	239.1	207.8	170.9	150.1	136.9	130.8	136.9
100°	628.8	648.1	603.5	539.2	500.2	461.2	405.7	365.5	344.1	344.6	344.1
102.5°	634.3	712.4	721.7	690.9	669.8	648.6	608.5	578.8	561.8	545.8	561.8
105°	599.7	714.6	769.5	780.0	772.8	765.7	740.4	719.5	701.9	699.2	701.9
107.5°	550.2	681.6	767.9	810.8	818.2	825.6	822.3	812.4	805.3	799.2	805.3
110°	504.0	629.9	731.0	800.3	819.6	838.8	854.2	858.6	857.5	856.4	857.5

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TEST NUMBER: P1012228
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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	463.9	578.8	682.7	762.4	788.5	814.6	845.9	861.9	867.4	867.9	867.4
115°	433.1	534.8	630.5	711.3	741.2	771.2	812.4	836.6	847.6	850.3	847.6
117.5°	412.8	500.7	585.4	659.6	690.7	721.7	764.6	791.5	808.0	811.8	808.0
120°	397.4	474.9	549.1	615.1	642.8	670.6	714.0	744.8	758.0	761.3	758.0
122.5°	384.8	454.6	520.0	579.9	605.2	630.5	667.8	694.8	709.6	714.0	709.6
125°	374.3	437.0	496.9	549.7	571.7	593.6	628.8	653.0	666.7	670.6	666.7
127.5°	364.4	421.0	475.5	523.8	544.2	564.5	596.4	617.3	629.9	633.2	629.9
130°	356.7	406.2	455.7	500.2	518.9	537.6	566.7	586.5	598.0	602.4	598.0
132.5°	349.6	392.5	437.0	477.7	495.2	512.8	539.8	559.6	569.4	572.2	569.4
135°	343.5	380.4	419.4	455.1	470.8	486.5	513.4	529.9	539.8	543.6	539.8
137.5°	338.0	368.8	401.8	433.7	447.7	461.7	484.8	501.8	510.1	513.4	510.1
140°	333.1	358.9	387.0	413.3	425.2	437.0	457.9	473.3	482.1	481.5	482.1
142.5°	328.7	349.6	372.7	394.7	404.5	414.4	431.5	444.7	452.4	451.8	452.4
145°	324.8	342.4	360.6	378.2	386.2	394.1	407.8	419.4	423.8	424.9	423.8
147.5°	321.0	336.4	351.2	366.1	371.8	377.6	388.6	396.9	401.3	401.8	401.3
150°	317.2	329.8	342.4	354.0	359.2	364.4	372.7	378.7	382.0	382.0	382.0
152.5°	312.8	323.8	334.2	344.1	348.2	352.3	358.4	363.9	365.5	365.5	365.5
155°	308.4	317.7	326.5	334.7	338.0	341.3	346.3	350.7	351.8	352.3	351.8
157.5°	303.4	311.1	318.8	325.4	328.2	330.9	335.3	338.6	339.7	339.7	339.7
160°	298.5	305.6	311.7	317.2	319.1	321.0	324.8	328.1	328.1	327.6	328.1
162.5°	293.5	299.0	304.0	308.9	310.5	312.2	314.4	317.2	317.2	316.6	317.2
165°	289.1	293.5	296.8	300.7	302.0	303.4	305.6	307.8	307.3	307.3	307.3
167.5°	284.7	288.6	291.3	293.5	294.6	295.7	296.8	298.5	297.9	297.9	297.9
170°	280.9	283.6	285.3	287.5	288.0	288.6	289.1	290.2	289.7	289.7	289.7
172.5°	277.0	279.2	280.3	282.0	282.2	282.5	282.5	283.6	282.5	282.0	282.5
175°	274.3	275.4	275.9	277.0	277.0	277.0	277.0	277.6	277.0	276.5	277.0
177.5°	272.1	272.6	273.2	273.7	273.7	273.7	273.2	273.7	272.6	272.6	272.6
180°	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2
2.5°	1640.2	1632.4	1627.2	1623.3	1619.4	1631.1	1615.5	1598.6	1586.9	1579.1	1576.5
5°	1811.9	1795.0	1780.7	1769.0	1771.6	1771.6	1744.3	1714.4	1688.3	1674.0	1658.4
7.5°	2010.9	1992.7	1964.1	1957.6	1952.4	1919.9	1892.6	1837.9	1805.4	1772.9	1744.3
10°	2208.6	2185.2	2157.9	2148.8	2135.8	2095.5	2053.8	1983.6	1943.3	1883.4	1845.7
12.5°	2393.3	2364.7	2337.4	2330.9	2311.4	2276.3	2204.7	2131.9	2062.9	1999.2	1932.9
15°	2548.1	2540.3	2498.7	2472.7	2429.7	2381.6	2366.0	2267.2	2180.0	2113.7	1994.0
17.5°	2678.2	2641.8	2602.7	2585.8	2568.9	2513.0	2457.1	2355.6	2262.0	2164.4	2087.7
20°	2782.2	2741.9	2714.6	2689.9	2682.1	2618.4	2529.9	2440.2	2337.4	2228.1	2128.0
22.5°	2787.4	2782.2	2764.0	2749.7	2734.1	2692.5	2622.3	2510.4	2401.1	2281.5	2150.1
25°	2679.5	2671.7	2723.7	2710.7	2721.1	2705.5	2667.8	2574.1	2446.7	2306.2	2173.5
27.5°	2354.3	2433.7	2515.6	2544.2	2563.7	2619.7	2637.9	2585.8	2483.1	2333.5	2185.2
30°	1912.1	2017.4	2150.1	2221.6	2276.3	2380.3	2515.6	2532.5	2484.4	2364.7	2182.6
32.5°	1501.0	1597.3	1703.9	1788.5	1861.3	2074.7	2256.8	2388.1	2411.5	2349.1	2189.1
35°	1209.7	1251.3	1352.8	1433.4	1532.3	1714.4	1929.0	2141.0	2284.1	2291.9	2169.6
37.5°	997.7	1019.8	1108.2	1153.7	1212.3	1372.3	1572.6	1849.6	2072.1	2177.4	2115.0
40°	826.0	876.7	927.4	953.4	995.1	1105.6	1298.1	1515.3	1791.1	1986.2	2030.4
42.5°	716.7	738.8	771.3	807.7	833.8	930.0	1058.8	1257.8	1506.2	1778.1	1900.4
45°	632.2	640.0	673.8	697.2	724.5	792.1	883.2	1049.7	1268.2	1536.2	1744.3
47.5°	561.9	577.5	595.7	610.0	628.2	680.3	758.3	879.3	1071.8	1311.1	1534.9
50°	499.5	508.6	532.0	538.5	551.5	587.9	647.8	740.1	898.8	1090.0	1321.5
52.5°	440.9	457.9	467.0	476.1	487.8	517.7	556.7	632.2	751.8	931.3	1127.7
55°	395.4	400.6	413.6	421.4	430.5	451.4	485.2	541.1	634.8	777.8	963.8
57.5°	351.2	351.2	364.2	370.7	379.8	395.4	425.3	468.3	535.9	642.6	813.0
60°	304.4	305.7	316.1	323.9	326.5	342.1	366.8	400.6	452.7	530.7	669.9
62.5°	262.7	269.2	274.5	277.1	286.2	295.3	316.1	339.5	375.9	444.8	543.7
65°	227.6	228.9	232.8	235.4	239.3	249.7	265.3	281.0	312.2	362.9	443.5
67.5°	187.3	192.5	197.7	197.7	201.6	206.8	222.4	235.4	258.8	288.8	343.4
70°	140.5	143.1	150.9	154.8	160.0	169.1	176.9	184.7	202.9	225.0	266.6
72.5°	117.1	117.1	119.7	121.0	121.0	127.5	139.2	147.0	156.1	171.7	200.3
75°	93.7	93.7	97.6	96.3	98.9	101.5	102.8	108.0	113.2	124.9	141.8
77.5°	74.1	75.4	75.4	76.7	76.7	78.0	79.3	81.9	84.5	91.1	98.9
80°	54.6	55.9	55.9	57.2	57.2	58.5	59.8	61.1	63.7	66.3	70.2
82.5°	37.7	39.0	39.0	40.3	39.0	40.3	41.6	41.6	42.9	45.5	46.8
85°	22.1	22.1	23.4	22.1	22.1	22.1	23.4	23.4	24.7	28.6	28.6
87.5°	6.5	7.8	6.5	7.8	7.8	7.8	7.8	9.1	9.1	10.4	11.7
90°	15.9	15.4	15.9	15.4	14.8	14.3	13.7	13.2	13.7	12.1	10.4
92.5°	29.7	31.9	33.0	34.9	36.8	42.3	54.4	76.4	102.2	113.2	84.6
95°	69.8	74.8	85.2	95.1	105.0	134.1	197.9	264.4	325.9	290.2	200.1
97.5°	150.1	170.9	207.8	239.1	270.4	343.0	454.6	518.3	501.3	374.3	222.6
100°	365.5	405.7	461.2	500.2	539.2	603.5	648.1	628.8	520.5	351.8	207.2
102.5°	578.8	608.5	648.6	669.8	690.9	721.7	712.4	634.3	484.8	318.8	194.0
105°	719.5	740.4	765.7	772.8	780.0	769.5	714.6	599.7	441.9	293.0	189.1
107.5°	812.4	822.3	825.6	818.2	810.8	767.9	681.6	550.2	404.0	274.3	188.0
110°	858.6	854.2	838.8	819.6	800.3	731.0	629.9	504.0	372.7	264.4	190.7

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	*861.9*	845.9	814.6	788.5	762.4	682.7	578.8	463.9	351.8	258.9	196.2
115°	*836.6*	812.4	771.2	741.2	711.3	630.5	534.8	433.1	338.0	258.3	202.3
117.5°	*791.5*	764.6	721.7	690.7	659.6	585.4	500.7	412.8	328.7	258.9	210.0
120°	*744.8*	714.0	670.6	642.8	615.1	549.1	474.9	397.4	322.7	261.1	218.8
122.5°	*694.8*	667.8	630.5	605.2	579.9	520.0	454.6	384.8	318.8	264.9	227.0
125°	*653.0*	628.8	593.6	571.7	549.7	496.9	437.0	374.3	315.5	268.8	235.8
127.5°	*617.3*	596.4	564.5	544.2	523.8	475.5	421.0	364.4	313.9	273.2	243.0
130°	*586.5*	566.7	537.6	518.9	500.2	455.7	406.2	356.7	312.2	277.6	250.1
132.5°	*559.6*	539.8	512.8	495.2	477.7	437.0	392.5	349.6	311.7	280.9	256.7
135°	*529.9*	513.4	486.5	470.8	455.1	419.4	380.4	343.5	311.1	284.2	262.2
137.5°	*501.8*	484.8	461.7	447.7	433.7	401.8	368.8	338.0	310.0	286.4	266.6
140°	*473.3*	457.9	437.0	425.2	413.3	387.0	358.9	333.1	309.5	288.6	269.9
142.5°	*444.7*	431.5	414.4	404.5	394.7	372.7	349.6	328.7	308.4	290.2	273.2
145°	*419.4*	407.8	394.1	386.2	378.2	360.6	342.4	324.8	307.3	290.8	275.4
147.5°	*396.9*	388.6	377.6	371.8	366.1	351.2	336.4	321.0	305.6	290.8	277.0
150°	*378.7*	372.7	364.4	359.2	354.0	342.4	329.8	317.2	303.4	290.8	277.6
152.5°	*363.9*	358.4	352.3	348.2	344.1	334.2	323.8	312.8	300.7	289.1	278.7
155°	*350.7*	346.3	341.3	338.0	334.7	326.5	317.7	308.4	297.4	288.0	278.7
157.5°	*338.6*	335.3	330.9	328.2	325.4	318.8	311.1	303.4	294.6	286.4	279.2
160°	*328.1*	324.8	321.0	319.1	317.2	311.7	305.6	298.5	291.3	285.3	279.2
162.5°	*317.2*	314.4	312.2	310.5	308.9	304.0	299.0	293.5	288.0	283.1	278.7
165°	*307.8*	305.6	303.4	302.0	300.7	296.8	293.5	289.1	284.7	280.9	277.6
167.5°	*298.5*	296.8	295.7	294.6	293.5	291.3	288.6	284.7	281.4	278.7	277.0
170°	*290.2*	289.1	288.6	288.0	287.5	285.3	283.6	280.9	278.1	276.5	275.4
172.5°	*283.6*	282.5	282.5	282.2	282.0	280.3	279.2	277.0	275.4	274.8	274.8
175°	*277.6*	277.0	277.0	277.0	277.0	275.9	275.4	274.3	273.2	273.2	273.7
177.5°	*273.7*	273.2	273.7	273.7	273.7	273.2	272.6	272.1	271.5	272.1	273.2
180°	*271.5*	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5

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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2
2.5°	1572.6	1566.1	1559.6	1559.6	1545.3	1532.3	1525.7	1528.3	1520.5	1510.1	1499.7
5°	1641.5	1615.5	1610.3	1596.0	1576.5	1549.2	1534.9	1521.8	1506.2	1485.4	1465.9
7.5°	1705.2	1671.4	1653.2	1638.9	1601.2	1563.5	1532.3	1511.4	1484.1	1452.9	1429.5
10°	1788.5	1726.1	1706.5	1674.0	1620.7	1567.4	1530.9	1497.1	1459.4	1423.0	1391.8
12.5°	1854.8	1783.3	1746.9	1714.4	1645.4	1577.8	1516.6	1475.0	1429.5	1389.2	1348.8
15°	1930.3	1849.6	1785.9	1746.9	1659.7	1577.8	1508.8	1450.3	1399.6	1350.1	1315.0
17.5°	1966.7	1865.2	1836.6	1780.7	1654.5	1572.6	1488.0	1425.6	1364.5	1307.2	1265.6
20°	2023.9	1905.6	1834.0	1796.3	1684.4	1563.5	1464.6	1393.1	1329.3	1268.2	1224.0
22.5°	*2027.8*	*1899.1*	*1852.2*	*1780.7*	*1642.8*	*1536.2*	*1443.8*	*1356.7*	*1282.5*	*1225.3*	*1179.8*
25°	2018.7	1887.3	1822.3	1765.1	1650.6	1520.5	1402.2	1316.3	1243.5	1177.2	1123.8
27.5°	2014.8	1853.5	1792.4	1735.2	1606.4	1475.0	1377.5	1279.9	1196.7	1138.1	1083.5
30°	2009.6	1817.1	1743.0	1676.6	1558.3	1439.9	1322.8	1238.3	1158.9	1084.8	1030.2
32.5°	1975.8	1767.7	1692.2	1622.0	1494.5	1376.2	1283.8	1194.1	1108.2	1039.3	989.8
35°	1965.4	1722.2	1623.3	1547.9	1423.0	1317.6	1220.1	1145.9	1065.3	996.4	937.8
37.5°	1935.5	1675.3	1568.7	1472.4	1342.3	1242.2	1170.6	1096.5	1018.5	944.3	897.5
40°	1883.4	1620.7	1499.7	1400.9	1266.9	1165.4	1099.1	1044.5	967.7	901.4	844.2
42.5°	1806.7	1564.8	1434.7	1330.6	1182.4	1087.4	1032.8	980.7	915.7	846.8	799.9
45°	1718.3	1490.6	1369.7	1253.9	1103.0	1010.7	953.4	922.2	862.4	803.8	749.2
47.5°	1597.3	1413.9	1294.2	1174.6	1021.1	931.3	885.8	854.6	813.0	749.2	705.0
50°	1445.1	1315.0	1201.9	1095.2	940.4	854.6	809.0	785.6	750.5	705.0	662.1
52.5°	1276.0	1200.6	1106.9	1008.1	858.5	777.8	736.2	718.0	692.0	649.1	612.6
55°	1105.6	1073.1	1009.4	911.8	772.6	706.3	669.9	646.5	626.9	595.7	564.5
57.5°	953.4	937.8	893.6	818.2	701.1	632.2	600.9	585.3	569.7	546.3	515.1
60°	796.0	813.0	767.4	729.7	623.0	563.2	535.9	519.0	511.2	490.4	470.9
62.5°	659.5	675.1	649.1	620.4	545.0	491.7	474.8	459.2	454.0	435.7	416.2
65°	535.9	555.4	535.9	520.3	474.8	430.5	409.7	401.9	396.7	385.0	369.4
67.5°	426.6	446.1	437.0	417.5	403.2	366.8	355.1	347.3	344.7	335.6	322.6
70°	321.3	348.6	351.2	339.5	326.5	309.6	301.8	299.2	292.7	284.9	277.1
72.5°	231.5	262.7	264.0	264.0	256.2	256.2	248.4	244.5	244.5	236.7	227.6
75°	170.4	191.2	193.8	196.4	200.3	204.2	199.0	199.0	197.7	189.9	186.0
77.5°	113.2	131.4	137.9	147.0	152.2	152.2	154.8	157.4	154.8	150.9	148.3
80°	72.8	85.8	93.7	98.9	106.7	110.6	114.5	115.8	113.2	111.9	108.0
82.5°	48.1	52.0	55.9	62.4	71.5	78.0	78.0	76.7	79.3	78.0	76.7
85°	27.3	29.9	31.2	32.5	37.7	44.2	45.5	46.8	49.4	46.8	44.2
87.5°	10.4	11.7	11.7	11.7	14.3	15.6	19.5	24.7	23.4	20.8	20.8
90°	8.8	7.1	6.6	6.0	4.9	3.3	2.2	1.1	2.2	3.3	4.9
92.5°	55.5	37.9	33.0	28.0	22.5	17.6	12.1	8.2	12.1	17.6	22.5
95°	118.2	71.5	60.8	50.0	35.7	26.4	20.3	18.7	20.3	26.4	35.7
97.5°	127.5	81.3	69.5	57.7	43.4	35.2	30.2	29.7	30.2	35.2	43.4
100°	125.9	87.4	76.7	66.0	52.8	45.1	41.2	40.7	41.2	45.1	52.8
102.5°	128.1	94.5	84.9	75.3	63.8	56.6	53.3	52.2	53.3	56.6	63.8
105°	132.5	102.8	94.2	85.7	75.3	68.7	65.4	63.8	65.4	68.7	75.3
107.5°	139.6	113.2	105.2	97.3	87.4	80.8	77.5	75.9	77.5	80.8	87.4
110°	149.0	124.2	116.5	108.8	99.5	93.4	90.7	89.0	90.7	93.4	99.5

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1012228
CATALOG NUMBER: S123RDIP-B1000D585UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	158.3	135.8	128.4	120.9	111.6	105.5	102.8	101.1	102.8	105.5	111.6
115°	168.7	147.9	140.4	133.0	123.7	118.2	114.9	112.7	114.9	118.2	123.7
117.5°	179.7	158.9	152.0	145.1	134.7	129.7	127.0	124.2	127.0	129.7	134.7
120°	190.2	170.4	163.6	156.7	146.2	140.7	138.0	136.3	138.0	140.7	146.2
122.5°	201.2	181.9	174.5	167.1	157.2	151.2	148.4	146.8	148.4	151.2	157.2
125°	211.6	192.4	185.0	177.5	167.1	161.1	157.8	156.7	157.8	161.1	167.1
127.5°	221.0	202.3	194.9	187.4	175.9	169.8	166.0	164.3	166.0	169.8	175.9
130°	229.2	211.1	203.6	196.2	184.7	178.1	173.1	171.5	173.1	178.1	184.7
132.5°	236.4	218.8	211.6	204.5	192.9	184.7	179.2	177.0	179.2	184.7	192.9
135°	243.5	226.5	219.0	211.6	200.1	191.8	185.8	183.6	185.8	191.8	200.1
137.5°	248.4	232.0	225.1	218.2	206.7	197.9	191.8	189.6	191.8	197.9	206.7
140°	253.4	237.5	230.6	223.7	212.7	203.9	198.4	195.7	198.4	203.9	212.7
142.5°	257.2	241.9	235.6	229.2	218.2	210.5	204.5	202.3	204.5	210.5	218.2
145°	260.5	246.2	239.9	233.6	224.3	216.0	211.1	209.4	211.1	216.0	224.3
147.5°	263.3	250.1	244.6	239.1	229.8	222.6	217.7	216.6	217.7	222.6	229.8
150°	266.0	253.4	248.4	243.5	235.8	228.7	224.3	223.7	224.3	228.7	235.8
152.5°	267.7	257.2	252.6	247.9	241.3	235.3	230.9	230.9	230.9	235.3	241.3
155°	269.9	260.5	256.6	252.8	246.8	241.3	238.0	238.0	238.0	241.3	246.8
157.5°	271.0	263.3	260.2	257.2	251.7	246.8	244.0	243.5	244.0	246.8	251.7
160°	272.6	266.0	263.2	260.5	256.7	252.3	250.1	250.1	250.1	252.3	256.7
162.5°	273.2	267.7	265.5	263.3	260.0	256.7	255.0	255.0	255.0	256.7	260.0
165°	273.7	269.3	267.4	265.5	263.3	260.5	259.4	260.0	259.4	260.5	263.3
167.5°	273.7	270.4	269.0	267.7	266.0	263.8	263.3	263.8	263.3	263.8	266.0
170°	273.2	270.4	269.8	269.3	268.2	266.6	266.0	267.1	266.0	266.6	268.2
172.5°	273.2	271.0	270.7	270.4	269.9	268.8	268.8	269.3	268.8	268.8	269.9
175°	272.6	271.5	271.2	271.0	271.0	269.9	270.4	271.0	270.4	269.9	271.0
177.5°	272.1	271.5	271.5	271.5	271.5	271.0	271.5	272.1	271.5	271.0	271.5
180°	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1012228
CATALOG NUMBER: S123RDIP-B1000D585UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2
2.5°	1499.7	1493.2	1490.6	1484.1	1468.5	1458.1	1446.4	1438.6	1439.9	1433.4	1437.3
5°	1452.9	1451.6	1442.5	1429.5	1407.4	1395.7	1374.9	1364.5	1359.3	1360.6	1352.8
7.5°	1413.9	1402.2	1395.7	1374.9	1354.1	1329.3	1312.4	1303.3	1295.5	1287.7	1282.5
10°	1369.7	1359.3	1348.8	1326.7	1298.1	1274.7	1251.3	1242.2	1230.5	1225.3	1221.4
12.5°	1322.8	1316.3	1303.3	1277.3	1244.8	1222.7	1195.4	1190.2	1174.6	1164.1	1161.5
15°	1279.9	1276.0	1252.6	1222.7	1190.2	1168.0	1144.6	1129.0	1103.0	1108.2	1099.1
17.5°	1234.4	1217.5	1203.2	1162.8	1147.2	1113.4	1086.1	1078.3	1060.1	1048.4	1036.7
20°	1183.7	1173.3	1155.0	1129.0	1091.3	1052.3	1031.5	1018.5	1008.1	989.8	984.6
22.5°	*1135.5*	*1122.5*	*1106.9*	*1073.1*	*1040.6*	*1008.1*	*979.4*	*967.7*	*954.7*	*941.7*	*933.9*
25°	1097.8	1078.3	1061.4	1019.8	987.2	959.9	941.7	922.2	904.0	896.2	893.6
27.5°	1039.3	1027.6	1010.7	971.6	941.7	911.8	894.9	881.9	862.4	853.3	845.5
30°	1001.6	978.1	958.6	927.4	897.5	865.0	849.4	833.8	822.1	810.3	801.2
32.5°	950.8	932.6	917.0	885.8	855.9	826.0	809.0	785.6	779.1	770.0	759.6
35°	901.4	889.7	872.8	839.0	806.4	785.6	767.4	745.3	737.5	731.0	721.9
37.5°	854.6	837.7	826.0	793.4	764.8	740.1	725.8	707.6	702.4	694.6	688.1
40°	814.3	797.3	785.6	753.1	723.2	697.2	688.1	669.9	662.1	653.0	649.1
42.5°	768.7	754.4	738.8	715.4	684.2	658.2	640.0	629.5	619.1	615.2	607.4
45°	720.6	707.6	695.9	669.9	637.4	619.1	603.5	589.2	581.4	574.9	569.7
47.5°	679.0	667.3	651.7	623.0	597.0	580.1	564.5	550.2	542.4	534.6	528.1
50°	630.9	624.3	607.4	580.1	555.4	535.9	521.6	508.6	503.4	494.3	483.9
52.5°	587.9	576.2	561.9	539.8	517.7	494.3	474.8	467.0	457.9	452.7	443.5
55°	537.2	529.4	513.8	494.3	470.9	451.4	437.0	426.6	414.9	409.7	398.0
57.5°	494.3	480.0	472.2	447.4	425.3	405.8	395.4	385.0	372.0	364.2	359.0
60°	447.4	434.4	422.7	401.9	386.3	365.5	349.9	340.8	331.7	321.3	316.1
62.5°	401.9	391.5	377.2	360.3	340.8	323.9	312.2	299.2	294.0	283.6	279.7
65°	352.5	344.7	333.0	313.5	297.9	283.6	271.9	261.4	256.2	252.3	249.7
67.5°	308.3	297.9	290.1	273.2	256.2	244.5	238.0	231.5	225.0	221.1	217.2
70°	262.7	254.9	247.1	231.5	219.8	209.4	204.2	199.0	195.1	191.2	187.3
72.5°	215.9	212.0	204.2	193.8	184.7	176.9	173.0	166.5	162.6	156.1	153.5
75°	178.2	171.7	167.8	158.7	150.9	144.4	139.2	131.4	126.2	123.6	122.3
77.5°	140.5	137.9	132.7	124.9	121.0	114.5	106.7	104.1	101.5	101.5	100.2
80°	105.4	101.5	97.6	91.1	87.1	81.9	81.9	81.9	80.6	81.9	80.6
82.5°	71.5	68.9	66.3	62.4	61.1	61.1	62.4	62.4	62.4	62.4	62.4
85°	41.6	41.6	41.6	42.9	41.6	41.6	42.9	44.2	42.9	42.9	41.6
87.5°	19.5	19.5	20.8	20.8	22.1	22.1	22.1	22.1	22.1	22.1	23.4
90°	6.0	6.6	7.1	8.8	10.4	12.1	13.7	13.2	13.7	14.3	14.8
92.5°	28.0	33.0	37.9	55.5	84.6	113.2	102.2	76.4	54.4	42.3	36.8
95°	50.0	60.8	71.5	118.2	200.1	290.2	325.9	264.4	197.9	134.1	105.0
97.5°	57.7	69.5	81.3	127.5	222.6	374.3	501.3	518.3	454.6	343.0	270.4
100°	66.0	76.7	87.4	125.9	207.2	351.8	520.5	628.8	648.1	603.5	539.2
102.5°	75.3	84.9	94.5	128.1	194.0	318.8	484.8	634.3	712.4	721.7	690.9
105°	85.7	94.2	102.8	132.5	189.1	293.0	441.9	599.7	714.6	769.5	780.0
107.5°	97.3	105.2	113.2	139.6	188.0	274.3	404.0	550.2	681.6	767.9	810.8
110°	108.8	116.5	124.2	149.0	190.7	264.4	372.7	504.0	629.9	731.0	800.3

TEST NUMBER: P1012228
CATALOG NUMBER: S123RDIP-B1000D585UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	120.9	128.4	135.8	158.3	196.2	258.9	351.8	463.9	578.8	682.7	762.4
115°	133.0	140.4	147.9	168.7	202.3	258.3	338.0	433.1	534.8	630.5	711.3
117.5°	145.1	152.0	158.9	179.7	210.0	258.9	328.7	412.8	500.7	585.4	659.6
120°	156.7	163.6	170.4	190.2	218.8	261.1	322.7	397.4	474.9	549.1	615.1
122.5°	167.1	174.5	181.9	201.2	227.0	264.9	318.8	384.8	454.6	520.0	579.9
125°	177.5	185.0	192.4	211.6	235.8	268.8	315.5	374.3	437.0	496.9	549.7
127.5°	187.4	194.9	202.3	221.0	243.0	273.2	313.9	364.4	421.0	475.5	523.8
130°	196.2	203.6	211.1	229.2	250.1	277.6	312.2	356.7	406.2	455.7	500.2
132.5°	204.5	211.6	218.8	236.4	256.7	280.9	311.7	349.6	392.5	437.0	477.7
135°	211.6	219.0	226.5	243.5	262.2	284.2	311.1	343.5	380.4	419.4	455.1
137.5°	218.2	225.1	232.0	248.4	266.6	286.4	310.0	338.0	368.8	401.8	433.7
140°	223.7	230.6	237.5	253.4	269.9	288.6	309.5	333.1	358.9	387.0	413.3
142.5°	229.2	235.6	241.9	257.2	273.2	290.2	308.4	328.7	349.6	372.7	394.7
145°	233.6	239.9	246.2	260.5	275.4	290.8	307.3	324.8	342.4	360.6	378.2
147.5°	239.1	244.6	250.1	263.3	277.0	290.8	305.6	321.0	336.4	351.2	366.1
150°	243.5	248.4	253.4	266.0	277.6	290.8	303.4	317.2	329.8	342.4	354.0
152.5°	247.9	252.6	257.2	267.7	278.7	289.1	300.7	312.8	323.8	334.2	344.1
155°	252.8	256.6	260.5	269.9	278.7	288.0	297.4	308.4	317.7	326.5	334.7
157.5°	257.2	260.2	263.3	271.0	279.2	286.4	294.6	303.4	311.1	318.8	325.4
160°	260.5	263.2	266.0	272.6	279.2	285.3	291.3	298.5	305.6	311.7	317.2
162.5°	263.3	265.5	267.7	273.2	278.7	283.1	288.0	293.5	299.0	304.0	308.9
165°	265.5	267.4	269.3	273.7	277.6	280.9	284.7	289.1	293.5	296.8	300.7
167.5°	267.7	269.0	270.4	273.7	277.0	278.7	281.4	284.7	288.6	291.3	293.5
170°	269.3	269.8	270.4	273.2	275.4	276.5	278.1	280.9	283.6	285.3	287.5
172.5°	270.4	270.7	271.0	273.2	274.8	274.8	275.4	277.0	279.2	280.3	282.0
175°	271.0	271.2	271.5	272.6	273.7	273.2	273.2	274.3	275.4	275.9	277.0
177.5°	271.5	271.5	271.5	272.1	273.2	272.1	271.5	272.1	272.6	273.2	273.7
180°	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1012228
CATALOG NUMBER: S123RDIP-B1000D585UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2
2.5°	1436.0	1437.3	1433.4	1425.6	1424.3	1426.9	1434.7	1432.1	1425.6	1437.3	1426.9
5°	1356.7	1350.1	1347.5	1350.1	1342.3	1338.4	1346.2	1342.3	1346.2	1347.5	1351.5
7.5°	1279.9	1281.2	1273.4	1274.7	1264.3	1266.9	1266.9	1266.9	1270.8	1273.4	1278.6
10°	1213.6	1216.2	1207.1	1208.4	1200.6	1195.4	1199.3	1207.1	1207.1	1207.1	1209.7
12.5°	1160.2	1148.5	1142.0	1140.7	1131.6	1129.0	1136.8	1139.4	1145.9	1145.9	1149.8
15°	1093.9	1091.3	1086.1	1086.1	1064.0	1069.2	1071.8	1080.9	1093.9	1083.5	1086.1
17.5°	1034.1	1027.6	1021.1	1018.5	1015.9	1008.1	1018.5	1017.2	1025.0	1026.3	1030.2
20°	980.7	975.5	962.5	963.8	966.4	954.7	961.2	961.2	969.0	976.8	985.9
22.5°	*928.7*	*923.5*	*917.0*	*919.6*	*911.8*	*909.2*	*909.2*	*915.7*	*924.8*	*931.3*	*930.0*
25°	888.4	879.3	875.4	871.5	867.6	870.2	866.3	872.8	879.3	883.2	879.3
27.5°	842.9	839.0	831.2	827.3	820.8	823.4	826.0	831.2	835.1	835.1	839.0
30°	798.6	793.4	790.8	786.9	786.9	781.7	783.0	788.2	792.1	796.0	801.2
32.5°	755.7	751.8	747.9	747.9	745.3	744.0	742.7	750.5	750.5	758.3	758.3
35°	720.6	714.1	714.1	707.6	710.2	708.9	706.3	711.5	712.8	718.0	716.7
37.5°	681.6	681.6	679.0	672.5	667.3	668.6	675.1	675.1	679.0	677.7	681.6
40°	642.6	640.0	640.0	636.1	634.8	633.5	634.8	636.1	642.6	641.3	642.6
42.5°	603.5	604.8	598.3	598.3	598.3	594.4	595.7	597.0	599.6	602.2	606.1
45°	565.8	563.2	561.9	559.3	556.7	558.0	556.7	561.9	560.6	563.2	567.1
47.5°	525.5	521.6	520.3	515.1	515.1	517.7	516.4	520.3	521.6	525.5	522.9
50°	486.5	481.3	477.4	478.7	470.9	473.5	473.5	477.4	481.3	482.6	485.2
52.5°	440.9	439.6	438.3	431.8	430.5	429.2	430.5	431.8	437.0	440.9	442.2
55°	396.7	395.4	387.6	385.0	381.1	381.1	383.7	385.0	394.1	395.4	400.6
57.5°	356.4	352.5	343.4	342.1	342.1	342.1	338.2	343.4	346.0	352.5	352.5
60°	312.2	312.2	304.4	304.4	305.7	304.4	304.4	305.7	305.7	310.9	313.5
62.5°	277.1	275.8	275.8	273.2	271.9	273.2	271.9	271.9	273.2	277.1	281.0
65°	245.8	244.5	243.2	241.9	239.3	239.3	240.6	243.2	243.2	245.8	247.1
67.5°	215.9	215.9	213.3	213.3	212.0	210.7	212.0	210.7	215.9	215.9	217.2
70°	186.0	184.7	180.8	179.5	175.6	176.9	176.9	180.8	182.1	184.7	187.3
72.5°	149.6	149.6	147.0	144.4	145.7	143.1	143.1	144.4	144.4	148.3	149.6
75°	123.6	121.0	119.7	121.0	119.7	122.3	119.7	119.7	122.3	122.3	122.3
77.5°	101.5	101.5	100.2	100.2	101.5	100.2	101.5	101.5	101.5	100.2	101.5
80°	83.2	81.9	81.9	81.9	80.6	80.6	80.6	80.6	80.6	80.6	80.6
82.5°	62.4	62.4	61.1	62.4	62.4	61.1	62.4	61.1	61.1	62.4	62.4
85°	41.6	44.2	41.6	41.6	42.9	42.9	44.2	42.9	44.2	41.6	42.9
87.5°	22.1	23.4	23.4	22.1	22.1	23.4	23.4	23.4	24.7	22.1	23.4
90°	15.4	15.9	15.4	15.9	16.5	15.9	16.5	15.9	15.4	15.9	15.4
92.5°	34.9	33.0	31.9	29.7	30.2	29.1	30.2	29.7	31.9	33.0	34.9
95°	95.1	85.2	74.8	69.8	66.0	63.8	66.0	69.8	74.8	85.2	95.1
97.5°	239.1	207.8	170.9	150.1	136.9	130.8	136.9	150.1	170.9	207.8	239.1
100°	500.2	461.2	405.7	365.5	344.1	344.6	344.1	365.5	405.7	461.2	500.2
102.5°	669.8	648.6	608.5	578.8	561.8	545.8	561.8	578.8	608.5	648.6	669.8
105°	772.8	765.7	740.4	719.5	701.9	699.2	701.9	719.5	740.4	765.7	772.8
107.5°	818.2	825.6	822.3	812.4	805.3	799.2	805.3	812.4	822.3	825.6	818.2
110°	819.6	838.8	854.2	858.6	857.5	856.4	857.5	858.6	854.2	838.8	819.6

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TEST NUMBER: P1012228
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CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	788.5	814.6	845.9	861.9	867.4	867.9	867.4	861.9	845.9	814.6	788.5
115°	741.2	771.2	812.4	836.6	847.6	850.3	847.6	836.6	812.4	771.2	741.2
117.5°	690.7	721.7	764.6	791.5	808.0	811.8	808.0	791.5	764.6	721.7	690.7
120°	642.8	670.6	714.0	744.8	758.0	761.3	758.0	744.8	714.0	670.6	642.8
122.5°	605.2	630.5	667.8	694.8	709.6	714.0	709.6	694.8	667.8	630.5	605.2
125°	571.7	593.6	628.8	653.0	666.7	670.6	666.7	653.0	628.8	593.6	571.7
127.5°	544.2	564.5	596.4	617.3	629.9	633.2	629.9	617.3	596.4	564.5	544.2
130°	518.9	537.6	566.7	586.5	598.0	602.4	598.0	586.5	566.7	537.6	518.9
132.5°	495.2	512.8	539.8	559.6	569.4	572.2	569.4	559.6	539.8	512.8	495.2
135°	470.8	486.5	513.4	529.9	539.8	543.6	539.8	529.9	513.4	486.5	470.8
137.5°	447.7	461.7	484.8	501.8	510.1	513.4	510.1	501.8	484.8	461.7	447.7
140°	425.2	437.0	457.9	473.3	482.1	481.5	482.1	473.3	457.9	437.0	425.2
142.5°	404.5	414.4	431.5	444.7	452.4	451.8	452.4	444.7	431.5	414.4	404.5
145°	386.2	394.1	407.8	419.4	423.8	424.9	423.8	419.4	407.8	394.1	386.2
147.5°	371.8	377.6	388.6	396.9	401.3	401.8	401.3	396.9	388.6	377.6	371.8
150°	359.2	364.4	372.7	378.7	382.0	382.0	382.0	378.7	372.7	364.4	359.2
152.5°	348.2	352.3	358.4	363.9	365.5	365.5	365.5	363.9	358.4	352.3	348.2
155°	338.0	341.3	346.3	350.7	351.8	352.3	351.8	350.7	346.3	341.3	338.0
157.5°	328.2	330.9	335.3	338.6	339.7	339.7	339.7	338.6	335.3	330.9	328.2
160°	319.1	321.0	324.8	328.1	328.1	327.6	328.1	328.1	324.8	321.0	319.1
162.5°	310.5	312.2	314.4	317.2	317.2	316.6	317.2	317.2	314.4	312.2	310.5
165°	302.0	303.4	305.6	307.8	307.3	307.3	307.3	307.8	305.6	303.4	302.0
167.5°	294.6	295.7	296.8	298.5	297.9	297.9	297.9	298.5	296.8	295.7	294.6
170°	288.0	288.6	289.1	290.2	289.7	289.7	289.7	290.2	289.1	288.6	288.0
172.5°	282.2	282.5	282.5	283.6	282.5	282.0	282.5	283.6	282.5	282.5	282.2
175°	277.0	277.0	277.0	277.6	277.0	276.5	277.0	277.6	277.0	277.0	277.0
177.5°	273.7	273.7	273.2	273.7	272.6	272.6	272.6	273.7	273.2	273.7	273.7
180°	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5

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TEST NUMBER: P1012228
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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2
2.5°	1437.3	1442.5	1437.3	1426.9	1437.3	1443.8	1450.3	1460.7	1465.9	1465.9	1473.7
5°	1355.4	1365.8	1361.9	1359.3	1369.7	1376.2	1386.6	1399.6	1413.9	1423.0	1433.4
7.5°	1282.5	1289.0	1295.5	1295.5	1305.9	1320.2	1335.8	1351.5	1369.7	1382.7	1390.5
10°	1218.8	1224.0	1227.9	1233.1	1248.7	1264.3	1285.1	1304.6	1320.2	1334.5	1347.5
12.5°	1157.6	1165.4	1174.6	1178.5	1190.2	1209.7	1229.2	1252.6	1277.3	1291.6	1304.6
15°	1099.1	1103.0	1113.4	1125.1	1135.5	1156.3	1181.1	1205.8	1226.6	1248.7	1260.4
17.5°	1039.3	1040.6	1067.9	1061.4	1095.2	1114.7	1127.7	1151.1	1185.0	1203.2	1221.4
20°	980.7	993.8	1005.5	1012.0	1030.2	1052.3	1090.0	1108.2	1135.5	1152.4	1168.0
22.5°	*935.2*	*954.7*	*954.7*	*970.3*	*979.4*	*1000.3*	*1027.6*	*1062.7*	*1092.6*	*1104.3*	*1126.4*
25°	894.9	904.0	919.6	924.8	941.7	959.9	978.1	1015.9	1048.4	1064.0	1079.6
27.5°	842.9	854.6	875.4	875.4	897.5	917.0	939.1	963.8	996.4	1018.5	1035.4
30°	802.5	814.3	823.4	837.7	846.8	865.0	904.0	922.2	950.8	970.3	991.2
32.5°	764.8	773.9	781.7	797.3	807.7	828.6	849.4	881.9	906.6	924.8	946.9
35°	723.2	732.3	742.7	754.4	770.0	789.5	809.0	836.4	861.1	878.0	896.2
37.5°	684.2	690.7	706.3	714.1	727.1	745.3	770.0	798.6	820.8	833.8	852.0
40°	646.5	651.7	663.4	677.7	686.8	701.1	727.1	751.8	779.1	794.7	809.0
42.5°	606.1	612.6	623.0	637.4	651.7	667.3	681.6	710.2	734.9	747.9	763.5
45°	571.0	574.9	582.7	597.0	611.3	623.0	645.2	671.2	694.6	705.0	721.9
47.5°	529.4	533.3	545.0	551.5	567.1	582.7	604.8	630.9	651.7	662.1	677.7
50°	486.5	490.4	498.2	512.5	522.9	539.8	559.3	581.4	607.4	621.7	630.9
52.5°	444.8	452.7	459.2	470.9	483.9	500.8	519.0	539.8	561.9	576.2	586.6
55°	403.2	409.7	417.5	424.0	439.6	455.3	476.1	495.6	515.1	528.1	539.8
57.5°	356.4	365.5	373.3	386.3	398.0	411.0	434.4	450.0	473.5	482.6	493.0
60°	316.1	325.2	331.7	342.1	352.5	369.4	385.0	404.5	424.0	435.7	448.7
62.5°	282.3	286.2	290.1	300.5	310.9	326.5	342.1	361.6	382.4	388.9	399.3
65°	248.4	252.3	258.8	267.9	275.8	284.9	301.8	317.4	336.9	347.3	351.2
67.5°	219.8	223.7	225.0	231.5	238.0	248.4	257.5	273.2	291.4	297.9	305.7
70°	187.3	193.8	195.1	200.3	202.9	209.4	219.8	231.5	245.8	257.5	264.0
72.5°	149.6	158.7	161.3	169.1	173.0	179.5	187.3	196.4	205.5	210.7	215.9
75°	122.3	124.9	126.2	132.7	139.2	148.3	152.2	157.4	165.2	171.7	176.9
77.5°	101.5	102.8	104.1	104.1	105.4	110.6	118.4	124.9	130.1	132.7	136.6
80°	81.9	80.6	80.6	81.9	81.9	81.9	84.5	93.7	96.3	102.8	101.5
82.5°	63.7	61.1	62.4	61.1	61.1	61.1	61.1	62.4	62.4	66.3	68.9
85°	41.6	42.9	41.6	41.6	40.3	41.6	40.3	40.3	39.0	39.0	37.7
87.5°	22.1	23.4	22.1	22.1	20.8	22.1	20.8	20.8	19.5	19.5	16.9
90°	14.8	14.3	13.7	13.2	13.7	12.1	10.4	8.8	7.1	6.6	6.0
92.5°	36.8	42.3	54.4	76.4	102.2	113.2	84.6	55.5	37.9	33.0	28.0
95°	105.0	134.1	197.9	264.4	325.9	290.2	200.1	118.2	71.5	60.8	50.0
97.5°	270.4	343.0	454.6	518.3	501.3	374.3	222.6	127.5	81.3	69.5	57.7
100°	539.2	603.5	648.1	628.8	520.5	351.8	207.2	125.9	87.4	76.7	66.0
102.5°	690.9	721.7	712.4	634.3	484.8	318.8	194.0	128.1	94.5	84.9	75.3
105°	780.0	769.5	714.6	599.7	441.9	293.0	189.1	132.5	102.8	94.2	85.7
107.5°	810.8	767.9	681.6	550.2	404.0	274.3	188.0	139.6	113.2	105.2	97.3
110°	800.3	731.0	629.9	504.0	372.7	264.4	190.7	149.0	124.2	116.5	108.8

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TEST NUMBER: P1012228
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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	762.4	682.7	578.8	463.9	351.8	258.9	196.2	158.3	135.8	128.4	120.9
115°	711.3	630.5	534.8	433.1	338.0	258.3	202.3	168.7	147.9	140.4	133.0
117.5°	659.6	585.4	500.7	412.8	328.7	258.9	210.0	179.7	158.9	152.0	145.1
120°	615.1	549.1	474.9	397.4	322.7	261.1	218.8	190.2	170.4	163.6	156.7
122.5°	579.9	520.0	454.6	384.8	318.8	264.9	227.0	201.2	181.9	174.5	167.1
125°	549.7	496.9	437.0	374.3	315.5	268.8	235.8	211.6	192.4	185.0	177.5
127.5°	523.8	475.5	421.0	364.4	313.9	273.2	243.0	221.0	202.3	194.9	187.4
130°	500.2	455.7	406.2	356.7	312.2	277.6	250.1	229.2	211.1	203.6	196.2
132.5°	477.7	437.0	392.5	349.6	311.7	280.9	256.7	236.4	218.8	211.6	204.5
135°	455.1	419.4	380.4	343.5	311.1	284.2	262.2	243.5	226.5	219.0	211.6
137.5°	433.7	401.8	368.8	338.0	310.0	286.4	266.6	248.4	232.0	225.1	218.2
140°	413.3	387.0	358.9	333.1	309.5	288.6	269.9	253.4	237.5	230.6	223.7
142.5°	394.7	372.7	349.6	328.7	308.4	290.2	273.2	257.2	241.9	235.6	229.2
145°	378.2	360.6	342.4	324.8	307.3	290.8	275.4	260.5	246.2	239.9	233.6
147.5°	366.1	351.2	336.4	321.0	305.6	290.8	277.0	263.3	250.1	244.6	239.1
150°	354.0	342.4	329.8	317.2	303.4	290.8	277.6	266.0	253.4	248.4	243.5
152.5°	344.1	334.2	323.8	312.8	300.7	289.1	278.7	267.7	257.2	252.6	247.9
155°	334.7	326.5	317.7	308.4	297.4	288.0	278.7	269.9	260.5	256.6	252.8
157.5°	325.4	318.8	311.1	303.4	294.6	286.4	279.2	271.0	263.3	260.2	257.2
160°	317.2	311.7	305.6	298.5	291.3	285.3	279.2	272.6	266.0	263.2	260.5
162.5°	308.9	304.0	299.0	293.5	288.0	283.1	278.7	273.2	267.7	265.5	263.3
165°	300.7	296.8	293.5	289.1	284.7	280.9	277.6	273.7	269.3	267.4	265.5
167.5°	293.5	291.3	288.6	284.7	281.4	278.7	277.0	273.7	270.4	269.0	267.7
170°	287.5	285.3	283.6	280.9	278.1	276.5	275.4	273.2	270.4	269.8	269.3
172.5°	282.0	280.3	279.2	277.0	275.4	274.8	274.8	273.2	271.0	270.7	270.4
175°	277.0	275.9	275.4	274.3	273.2	273.2	273.7	272.6	271.5	271.2	271.0
177.5°	273.7	273.2	272.6	272.1	271.5	272.1	273.2	272.1	271.5	271.5	271.5
180°	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5

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TEST NUMBER: P1012228
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CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1519.2	1519.2	1519.2	1519.2
2.5°	1480.2	1489.3	1507.5	1523.1
5°	1449.0	1463.3	1490.6	1517.9
7.5°	1411.3	1433.4	1468.5	1506.2
10°	1374.9	1403.5	1446.4	1490.6
12.5°	1338.4	1368.4	1413.9	1471.1
15°	1295.5	1326.7	1381.4	1450.3
17.5°	1257.8	1299.4	1348.8	1417.8
20°	1217.5	1248.7	1312.4	1385.3
22.5°	*1166.7*	*1218.8*	*1278.6*	*1355.4*
25°	1126.4	1172.0	1231.8	1318.9
27.5°	1077.0	1130.3	1203.2	1279.9
30°	1036.7	1080.9	1148.5	1240.9
32.5°	989.8	1041.9	1112.1	1203.2
35°	948.2	992.5	1058.8	1151.1
37.5°	898.8	946.9	1021.1	1103.0
40°	855.9	902.7	972.9	1049.7
42.5°	803.8	853.3	923.5	988.5
45°	762.2	807.7	863.7	923.5
47.5°	711.5	759.6	814.3	855.9
50°	666.0	710.2	753.1	788.2
52.5°	616.5	656.9	695.9	721.9
55°	571.0	602.2	633.5	651.7
57.5°	517.7	547.6	573.6	584.0
60°	470.9	495.6	512.5	524.2
62.5°	421.4	439.6	452.7	459.2
65°	373.3	386.3	392.8	399.3
67.5°	323.9	335.6	339.5	347.3
70°	271.9	284.9	287.5	291.4
72.5°	232.8	232.8	238.0	243.2
75°	186.0	188.6	191.2	191.2
77.5°	145.7	145.7	148.3	149.6
80°	106.7	108.0	108.0	106.7
82.5°	72.8	75.4	72.8	71.5
85°	40.3	45.5	42.9	42.9
87.5°	16.9	16.9	19.5	16.9
90°	4.9	3.3	2.2	1.1
92.5°	22.5	17.6	12.1	8.2
95°	35.7	26.4	20.3	18.7
97.5°	43.4	35.2	30.2	29.7
100°	52.8	45.1	41.2	40.7
102.5°	63.8	56.6	53.3	52.2
105°	75.3	68.7	65.4	63.8
107.5°	87.4	80.8	77.5	75.9
110°	99.5	93.4	90.7	89.0

TEST NUMBER: P1012228
CATALOG NUMBER: S123RDIP-B1000D585UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	111.6	105.5	102.8	101.1
115°	123.7	118.2	114.9	112.7
117.5°	134.7	129.7	127.0	124.2
120°	146.2	140.7	138.0	136.3
122.5°	157.2	151.2	148.4	146.8
125°	167.1	161.1	157.8	156.7
127.5°	175.9	169.8	166.0	164.3
130°	184.7	178.1	173.1	171.5
132.5°	192.9	184.7	179.2	177.0
135°	200.1	191.8	185.8	183.6
137.5°	206.7	197.9	191.8	189.6
140°	212.7	203.9	198.4	195.7
142.5°	218.2	210.5	204.5	202.3
145°	224.3	216.0	211.1	209.4
147.5°	229.8	222.6	217.7	216.6
150°	235.8	228.7	224.3	223.7
152.5°	241.3	235.3	230.9	230.9
155°	246.8	241.3	238.0	238.0
157.5°	251.7	246.8	244.0	243.5
160°	256.7	252.3	250.1	250.1
162.5°	260.0	256.7	255.0	255.0
165°	263.3	260.5	259.4	260.0
167.5°	266.0	263.8	263.3	263.8
170°	268.2	266.6	266.0	267.1
172.5°	269.9	268.8	268.8	269.3
175°	271.0	269.9	270.4	271.0
177.5°	271.5	271.0	271.5	272.1
180°	271.5	271.5	271.5	271.5

(END OF REPORT)