

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: METALUX

Report Number: P#

Luminaire Tested: **8SNLED-LD5-68SL-LC-UNV-L950-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33518)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-68SL-LC-UNV-L950-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
CLEAR LENSED  
Light Source: -  
Ballast/Driver: -

**Summary**

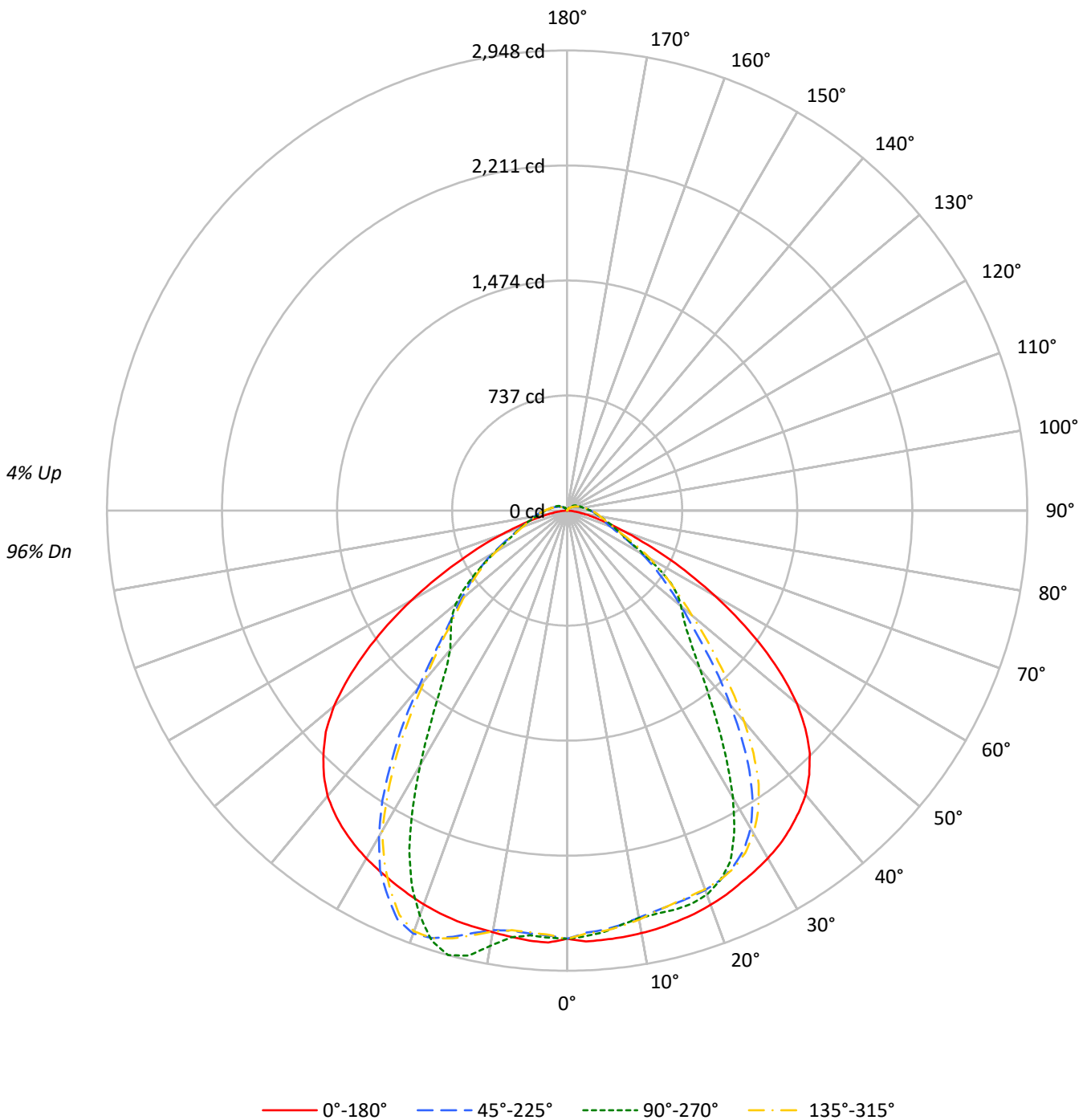
Lumens per Lamp: N/A  
Luminaire Lumens: 6539.0 lumens  
Efficiency: N/A  
Efficacy: 130.8 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 50  
Input Voltage (V): NR  
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: P#  
CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L950-CD1-U

### 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	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84	82				
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73	71				
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63	61				
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56	54				
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49	47				
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44	42				
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40	38				
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36	34				
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33	31				
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30	28				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	11083	11083	11083	11083
5°	11179	10644	11202	10727
10°	11246	10201	11223	10893
15°	11349	10064	11343	11206
20°	11491	9905	11479	10441
25°	11651	9396	11645	9079
30°	11890	8144	11897	7215
35°	12146	6585	12180	5573
40°	12377	5302	12429	4671
45°	12364	4491	12427	4374
50°	11864	4135	12030	4042
55°	10563	3716	10827	3378
60°	8606	2845	9063	2609
65°	6436	2176	6933	2064
70°	4413	1878	4975	1796
75°	2927	1695	3406	1603
80°	1939	1580	2272	1454
85°	1058	1576	1392	1440



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.5	4.0
10°-20°	775.2	11.9
20°-30°	1178.6	18.0
30°-40°	1264.3	19.3
40°-50°	1097.3	16.8
50°-60°	813.2	12.4
60°-70°	465.9	7.1
70°-80°	258.0	3.9
80°-90°	157.1	2.4
90°-100°	102.2	1.6
100°-110°	68.4	1.0
110°-120°	46.2	0.7
120°-130°	28.3	0.4
130°-140°	14.9	0.2
140°-150°	6.8	0.1
150°-160°	2.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2214.3	33.9
0°-40°	3478.6	53.2
0°-60°	5389.1	82.4
0°-90°	6270.1	95.9
90°-120°	216.8	3.3
90°-150°	266.9	4.1
90°-180°	269.0	4.1
0°-180°	6539.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2743	2743	2743	2743	2743	
5°	2760	2710	2766	2732	2760	263
15°	2724	2648	2723	2948	2724	771
25°	2632	2477	2631	2393	2632	1217
35°	2489	1686	2496	1427	2489	1558
45°	2198	1081	2209	1053	2198	1682
55°	1533	810	1571	737	1533	1359
65°	696	411	750	390	696	701
75°	198	261	231	246	198	227
85°	27	180	35	164	27	35
90°	0	150	3	139	0	1
95°	1	123	0	118	1	1
105°	1	92	1	88	1	1
115°	1	75	1	68	1	1
125°	1	57	1	47	1	1
135°	1	35	1	30	1	1
145°	1	21	3	17	1	1
155°	3	10	3	8	3	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9
2.5°	2762.8	2755.7	2752.9	2747.2	2751.4	2768.4	2757.1	2738.7	2740.1	2707.5	2724.5
5°	2759.9	2751.4	2747.2	2741.5	2744.4	2759.9	2748.6	2730.2	2728.8	2696.2	2711.8
7.5°	2755.7	2747.2	2740.1	2735.9	2737.3	2750.0	2735.9	2714.6	2710.4	2674.9	2689.1
10°	2748.6	2742.9	2733.0	2725.9	2724.5	2738.7	2716.0	2694.8	2684.9	2648.0	2662.2
12.5°	2738.7	2730.2	2720.3	2707.5	2706.1	2714.6	2696.2	2666.4	2656.5	2626.8	2642.4
15°	2724.5	2714.6	2703.3	2689.1	2682.0	2687.7	2665.0	2638.1	2636.7	2611.2	2632.4
17.5°	2708.9	2694.8	2682.0	2662.2	2652.3	2656.5	2638.1	2614.0	2616.8	2601.3	2625.3
20°	2687.7	2672.1	2652.3	2632.4	2618.3	2625.3	2612.6	2594.2	2598.4	2587.1	2608.3
22.5°	2663.6	2642.4	2618.3	2595.6	2584.3	2594.2	2584.3	2568.7	2570.1	2563.0	2575.8
25°	2632.4	2608.3	2580.0	2551.7	2546.0	2553.1	2547.4	2534.7	2529.0	2517.7	2523.3
27.5°	2604.1	2577.2	2541.8	2512.0	2502.1	2516.3	2503.5	2482.3	2466.7	2451.1	2439.7
30°	2571.5	2538.9	2499.3	2465.2	2456.7	2462.4	2444.0	2411.4	2370.3	2350.5	2319.3
32.5°	2536.1	2493.6	2444.0	2405.7	2400.1	2395.8	2361.8	2315.1	2251.3	2211.6	2163.5
35°	2489.3	2442.6	2383.1	2336.3	2327.8	2303.7	2248.5	2186.1	2104.0	2036.0	1953.8
37.5°	2436.9	2381.7	2319.3	2257.0	2232.9	2184.7	2106.8	2041.6	1916.9	1834.8	1735.6
40°	2377.4	2310.8	2234.3	2159.2	2119.5	2041.6	1952.4	1856.0	1735.6	1625.1	1541.5
42.5°	2295.2	2224.4	2133.7	2050.1	1982.1	1878.7	1773.8	1637.8	1527.3	1433.8	1348.8
45°	2197.5	2112.5	2007.6	1907.0	1820.6	1697.3	1574.1	1438.1	1346.0	1236.9	1178.8
47.5°	2071.4	1979.3	1867.4	1755.4	1642.1	1506.1	1377.1	1246.8	1154.7	1076.8	1034.3
50°	1922.6	1837.6	1714.3	1581.2	1456.5	1314.8	1185.9	1088.1	998.9	950.7	918.1
52.5°	1738.4	1659.1	1533.0	1388.5	1268.0	1129.2	1011.6	932.3	868.5	833.1	821.7
55°	1533.0	1463.6	1338.9	1204.3	1081.0	953.5	864.3	794.8	753.7	732.5	733.9
57.5°	1313.4	1259.5	1141.9	1021.5	905.3	809.0	728.2	673.0	641.8	640.4	644.6
60°	1093.8	1054.1	952.1	848.7	746.7	668.7	609.2	571.0	551.1	552.6	551.1
62.5°	884.1	847.3	773.6	688.6	607.8	555.4	501.6	486.0	469.0	467.5	467.5
65°	695.7	667.3	607.8	546.9	486.0	452.0	425.0	406.6	393.9	391.0	392.5
67.5°	522.8	511.5	470.4	429.3	391.0	369.8	347.1	342.9	333.0	333.0	335.8
70°	389.6	381.1	358.5	334.4	318.8	304.6	293.3	293.3	291.9	290.4	297.5
72.5°	281.9	283.4	276.3	257.9	256.4	253.6	250.8	255.0	256.4	260.7	269.2
75°	198.4	202.6	202.6	199.8	205.4	212.5	216.8	223.9	232.4	238.0	247.9
77.5°	140.3	140.3	147.3	155.8	167.2	179.9	191.3	201.2	212.5	219.6	228.1
80°	90.7	94.9	106.3	121.8	137.4	154.4	170.0	182.8	194.1	205.4	211.1
82.5°	53.8	60.9	75.1	94.9	114.8	136.0	151.6	167.2	179.9	191.3	195.5
85°	26.9	36.8	53.8	75.1	96.3	119.0	138.8	153.0	167.2	177.1	182.8
87.5°	8.5	19.8	38.3	58.1	80.8	103.4	124.7	140.3	153.0	161.5	167.2
90°	0.0	9.9	26.9	48.2	69.4	92.1	111.9	128.9	141.7	148.8	153.0
92.5°	0.0	5.7	21.3	39.7	59.5	82.2	102.0	117.6	128.9	136.0	138.8
95°	1.4	4.3	15.6	32.6	52.4	73.7	92.1	106.3	117.6	124.7	126.1
97.5°	1.4	2.8	12.8	26.9	45.3	65.2	83.6	97.8	106.3	113.3	114.8
100°	1.4	2.8	9.9	24.1	39.7	58.1	75.1	87.8	97.8	103.4	104.8
102.5°	1.4	1.4	8.5	19.8	35.4	51.0	66.6	79.3	87.8	93.5	96.3
105°	1.4	1.4	7.1	17.0	31.2	45.3	59.5	72.3	79.3	85.0	87.8
107.5°	1.4	1.4	5.7	14.2	26.9	39.7	53.8	63.8	72.3	77.9	80.8
110°	1.4	1.4	4.3	12.8	22.7	35.4	46.8	56.7	65.2	70.8	73.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.4	1.4	4.3	11.3	19.8	31.2	41.1	51.0	58.1	63.8	68.0
115°	1.4	1.4	4.3	9.9	18.4	26.9	36.8	45.3	52.4	58.1	62.3
117.5°	1.4	1.4	4.3	8.5	15.6	24.1	32.6	41.1	46.8	52.4	56.7
120°	1.4	1.4	2.8	7.1	14.2	21.3	28.3	35.4	42.5	48.2	52.4
122.5°	1.4	1.4	2.8	7.1	11.3	18.4	25.5	31.2	38.3	42.5	46.8
125°	1.4	1.4	2.8	5.7	9.9	17.0	22.7	28.3	32.6	38.3	42.5
127.5°	1.4	1.4	2.8	5.7	8.5	14.2	19.8	25.5	29.8	34.0	36.8
130°	1.4	1.4	2.8	4.3	7.1	11.3	17.0	21.3	26.9	29.8	32.6
132.5°	1.4	1.4	1.4	4.3	5.7	8.5	12.8	18.4	22.7	26.9	28.3
135°	1.4	1.4	1.4	2.8	5.7	7.1	9.9	14.2	18.4	22.7	25.5
137.5°	1.4	1.4	1.4	2.8	4.3	7.1	8.5	11.3	15.6	18.4	22.7
140°	1.4	1.4	1.4	2.8	4.3	5.7	7.1	9.9	12.8	15.6	18.4
142.5°	1.4	1.4	1.4	2.8	2.8	4.3	5.7	8.5	9.9	12.8	15.6
145°	1.4	1.4	1.4	2.8	2.8	4.3	5.7	7.1	8.5	9.9	12.8
147.5°	1.4	1.4	1.4	2.8	2.8	2.8	4.3	5.7	7.1	8.5	9.9
150°	2.8	2.8	2.8	2.8	2.8	2.8	4.3	4.3	5.7	7.1	8.5
152.5°	2.8	2.8	2.8	2.8	2.8	2.8	4.3	4.3	4.3	5.7	7.1
155°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3	4.3	5.7	5.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9
2.5°	2718.9	2721.7	2738.7	2737.3	2734.4	2731.6	2731.6	2728.8	2731.6	2738.7	2735.9
5°	2704.7	2708.9	2721.7	2720.3	2717.4	2716.0	2714.6	2710.4	2713.2	2723.1	2720.3
7.5°	2679.2	2683.4	2694.8	2689.1	2684.9	2687.7	2680.6	2676.4	2682.0	2691.9	2690.5
10°	2652.3	2655.1	2669.3	2666.4	2659.4	2660.8	2653.7	2650.9	2657.9	2663.6	2665.0
12.5°	2633.9	2643.8	2656.5	2655.1	2653.7	2655.1	2648.0	2645.2	2649.4	2655.1	2653.7
15°	2629.6	2642.4	2656.5	2656.5	2657.9	2659.4	2652.3	2648.0	2652.3	2656.5	2655.1
17.5°	2625.3	2640.9	2653.7	2652.3	2653.7	2656.5	2645.2	2642.4	2648.0	2653.7	2650.9
20°	2611.2	2625.3	2633.9	2631.0	2631.0	2632.4	2618.3	2618.3	2626.8	2631.0	2632.4
22.5°	2571.5	2588.5	2588.5	2581.4	2581.4	2575.8	2571.5	2563.0	2572.9	2580.0	2585.7
25°	2512.0	2519.1	2510.6	2495.0	2486.5	2479.4	2459.6	2476.6	2476.6	2497.8	2504.9
27.5°	2428.4	2412.8	2388.7	2356.2	2349.1	2326.4	2313.7	2317.9	2325.0	2354.7	2377.4
30°	2291.0	2244.2	2203.1	2189.0	2157.8	2135.1	2112.5	2123.8	2136.5	2153.6	2200.3
32.5°	2109.6	2064.3	1997.7	1973.6	1941.0	1912.7	1885.8	1902.8	1925.4	1936.8	1987.8
35°	1901.4	1847.5	1786.6	1745.5	1711.5	1695.9	1661.9	1686.0	1710.1	1718.6	1762.5
37.5°	1680.3	1625.1	1571.2	1535.8	1503.2	1493.3	1470.6	1487.7	1506.1	1518.8	1555.7
40°	1470.6	1419.6	1378.6	1354.5	1331.8	1323.3	1314.8	1321.9	1336.1	1346.0	1374.3
42.5°	1290.7	1249.6	1221.3	1207.1	1191.5	1180.2	1181.6	1184.5	1191.5	1212.8	1225.5
45°	1133.4	1109.4	1090.9	1088.1	1078.2	1076.8	1075.4	1081.0	1085.3	1098.0	1107.9
47.5°	1007.4	997.4	993.2	998.9	1003.1	997.4	1000.3	1007.4	1015.9	1015.9	1014.4
50°	908.2	911.0	916.7	929.4	937.9	940.8	943.6	952.1	953.5	956.3	952.1
52.5°	827.4	830.3	845.8	865.7	875.6	879.8	885.5	894.0	894.0	896.8	891.2
55°	745.2	749.5	765.1	784.9	793.4	799.1	804.7	810.4	814.7	820.3	816.1
57.5°	654.6	667.3	677.2	682.9	688.6	692.8	697.1	698.5	707.0	708.4	715.5
60°	558.2	561.1	571.0	569.6	565.3	576.6	571.0	580.9	590.8	603.6	605.0
62.5°	466.1	467.5	474.6	471.8	477.5	476.0	480.3	480.3	487.4	493.0	500.1
65°	393.9	395.3	401.0	401.0	399.5	403.8	408.0	410.9	410.9	415.1	420.8
67.5°	340.0	344.3	350.0	352.8	355.6	355.6	359.9	361.3	364.1	365.5	368.4
70°	303.2	308.9	314.5	317.4	318.8	321.6	323.0	323.0	325.9	327.3	330.1
72.5°	276.3	281.9	286.2	286.2	289.0	290.4	290.4	291.9	293.3	296.1	298.9
75°	253.6	257.9	260.7	259.3	259.3	259.3	260.7	260.7	263.5	266.4	269.2
77.5°	232.4	236.6	236.6	233.8	233.8	233.8	233.8	235.2	236.6	239.4	242.3
80°	216.8	216.8	215.4	215.4	212.5	211.1	211.1	212.5	212.5	215.4	219.6
82.5°	199.8	199.8	198.4	196.9	195.5	194.1	194.1	195.5	196.9	198.4	201.2
85°	184.2	184.2	181.4	181.4	179.9	179.9	179.9	179.9	181.4	182.8	185.6
87.5°	168.6	167.2	165.8	164.3	164.3	164.3	164.3	164.3	165.8	168.6	170.0
90°	153.0	151.6	150.2	150.2	148.8	148.8	150.2	150.2	151.6	153.0	154.4
92.5°	138.8	137.4	136.0	136.0	134.6	134.6	136.0	134.6	137.4	137.4	138.8
95°	126.1	124.7	123.3	123.3	123.3	123.3	123.3	123.3	124.7	124.7	126.1
97.5°	114.8	113.3	111.9	111.9	113.3	111.9	113.3	113.3	113.3	114.8	116.2
100°	104.8	103.4	103.4	104.8	103.4	103.4	104.8	104.8	104.8	104.8	106.3
102.5°	96.3	96.3	96.3	96.3	96.3	96.3	97.8	97.8	97.8	97.8	99.2
105°	87.8	89.3	89.3	89.3	90.7	90.7	90.7	92.1	92.1	92.1	92.1
107.5°	82.2	83.6	83.6	85.0	85.0	86.4	86.4	86.4	86.4	87.8	87.8
110°	76.5	77.9	79.3	80.8	80.8	82.2	82.2	82.2	82.2	82.2	82.2





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	70.8	72.3	73.7	76.5	77.9	77.9	77.9	77.9	79.3	79.3	77.9
115°	65.2	68.0	69.4	72.3	73.7	73.7	75.1	75.1	75.1	75.1	73.7
117.5°	59.5	63.8	65.2	68.0	69.4	69.4	70.8	70.8	70.8	70.8	69.4
120°	55.3	58.1	60.9	62.3	63.8	65.2	65.2	66.6	66.6	66.6	65.2
122.5°	51.0	53.8	56.7	58.1	59.5	60.9	60.9	60.9	60.9	60.9	60.9
125°	45.3	48.2	51.0	52.4	53.8	55.3	55.3	56.7	56.7	56.7	55.3
127.5°	41.1	43.9	45.3	48.2	49.6	49.6	51.0	51.0	51.0	51.0	49.6
130°	35.4	38.3	41.1	42.5	43.9	43.9	45.3	45.3	45.3	45.3	45.3
132.5°	31.2	34.0	35.4	38.3	38.3	39.7	39.7	41.1	41.1	41.1	39.7
135°	28.3	29.8	31.2	34.0	34.0	35.4	35.4	35.4	35.4	35.4	35.4
137.5°	25.5	26.9	28.3	29.8	29.8	31.2	31.2	31.2	31.2	32.6	31.2
140°	21.3	24.1	25.5	25.5	26.9	26.9	26.9	28.3	28.3	28.3	26.9
142.5°	18.4	19.8	21.3	22.7	24.1	24.1	24.1	24.1	25.5	24.1	24.1
145°	14.2	17.0	18.4	19.8	21.3	21.3	21.3	21.3	21.3	21.3	21.3
147.5°	11.3	12.8	15.6	17.0	17.0	18.4	18.4	18.4	18.4	18.4	18.4
150°	9.9	9.9	12.8	14.2	15.6	15.6	15.6	15.6	15.6	15.6	15.6
152.5°	7.1	8.5	9.9	11.3	12.8	12.8	12.8	12.8	12.8	12.8	12.8
155°	7.1	7.1	8.5	8.5	9.9	9.9	9.9	9.9	11.3	9.9	9.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9
2.5°	2731.6	2730.2	2735.9	2730.2	2701.9	2713.2	2708.9	2724.5	2725.9	2730.2	2744.4
5°	2717.4	2717.4	2724.5	2718.9	2691.9	2703.3	2701.9	2717.4	2720.3	2723.1	2738.7
7.5°	2689.1	2690.5	2700.4	2696.2	2667.9	2684.9	2683.4	2701.9	2707.5	2713.2	2727.4
10°	2662.2	2660.8	2672.1	2667.9	2640.9	2660.8	2659.4	2677.8	2686.3	2696.2	2713.2
12.5°	2648.0	2643.8	2648.0	2643.8	2614.0	2629.6	2631.0	2652.3	2662.2	2674.9	2694.8
15°	2648.0	2640.9	2640.9	2632.4	2598.4	2608.3	2609.8	2623.9	2636.7	2649.4	2673.5
17.5°	2645.2	2638.1	2636.7	2629.6	2592.8	2592.8	2591.3	2601.3	2608.3	2621.1	2646.6
20°	2629.6	2626.8	2625.3	2621.1	2587.1	2581.4	2578.6	2578.6	2582.8	2587.1	2612.6
22.5°	2588.5	2591.3	2594.2	2597.0	2570.1	2560.2	2561.6	2558.8	2554.5	2554.5	2575.8
25°	2512.0	2526.2	2537.5	2550.3	2534.7	2527.6	2536.1	2531.8	2524.8	2519.1	2537.5
27.5°	2390.2	2419.9	2444.0	2475.2	2476.6	2470.9	2493.6	2490.8	2489.3	2480.8	2495.0
30°	2221.6	2268.3	2300.9	2346.2	2384.5	2390.2	2428.4	2434.1	2439.7	2435.5	2449.7
32.5°	2017.5	2081.3	2136.5	2207.4	2244.2	2276.8	2330.7	2353.3	2376.0	2383.1	2398.7
35°	1795.1	1867.4	1932.5	2010.5	2068.5	2139.4	2204.6	2238.6	2289.6	2309.4	2332.1
37.5°	1584.0	1652.0	1715.8	1793.7	1887.2	1960.9	2041.6	2118.1	2187.6	2215.9	2249.9
40°	1397.0	1452.2	1513.2	1581.2	1666.2	1762.5	1850.4	1956.6	2038.8	2095.5	2145.1
42.5°	1255.3	1282.2	1334.6	1395.6	1463.6	1561.3	1650.6	1769.6	1868.8	1949.5	2031.7
45°	1129.2	1141.9	1180.2	1212.8	1282.2	1368.6	1463.6	1579.7	1683.2	1786.6	1885.8
47.5°	1021.5	1037.1	1055.5	1075.4	1124.9	1197.2	1279.4	1384.2	1487.7	1608.1	1721.4
50°	949.3	953.5	956.3	964.8	994.6	1044.2	1110.8	1200.0	1299.2	1428.1	1548.6
52.5°	885.5	885.5	877.0	872.8	884.1	915.3	953.5	1017.3	1119.3	1238.3	1365.8
55°	817.5	804.7	801.9	787.7	790.6	804.7	823.2	872.8	956.3	1058.4	1181.6
57.5°	722.6	716.9	716.9	711.2	699.9	707.0	711.2	746.7	806.2	894.0	1001.7
60°	613.5	610.6	617.7	619.1	609.2	613.5	612.1	633.3	675.8	746.7	835.9
62.5°	504.4	517.1	518.6	524.2	518.6	517.1	524.2	542.6	563.9	617.7	687.2
65°	423.6	430.7	432.1	439.2	436.4	436.4	442.0	456.2	469.0	505.8	559.6
67.5°	371.2	368.4	369.8	374.0	369.8	368.4	372.6	381.1	391.0	413.7	452.0
70°	330.1	327.3	327.3	327.3	321.6	317.4	318.8	321.6	325.9	338.6	362.7
72.5°	298.9	298.9	294.7	290.4	286.2	283.4	280.5	277.7	276.3	280.5	293.3
75°	270.6	272.0	270.6	266.4	260.7	255.0	249.4	243.7	236.6	233.8	235.2
77.5°	245.1	246.5	247.9	246.5	240.9	233.8	225.3	216.8	206.9	196.9	191.3
80°	222.4	225.3	226.7	225.3	221.0	215.4	205.4	195.5	181.4	168.6	154.4
82.5°	202.6	206.9	208.3	208.3	205.4	199.8	188.4	177.1	161.5	144.5	126.1
85°	187.0	189.9	192.7	192.7	191.3	185.6	174.3	161.5	145.9	126.1	106.3
87.5°	171.4	172.9	175.7	178.5	175.7	170.0	160.1	145.9	130.3	110.5	87.8
90°	155.8	157.3	160.1	162.9	161.5	155.8	147.3	134.6	117.6	96.3	73.7
92.5°	140.3	143.1	144.5	145.9	147.3	143.1	136.0	123.3	106.3	85.0	63.8
95°	128.9	128.9	131.8	133.2	134.6	130.3	124.7	111.9	96.3	76.5	55.3
97.5°	117.6	117.6	120.4	120.4	121.8	119.0	113.3	102.0	86.4	68.0	46.8
100°	106.3	107.7	109.1	110.5	110.5	109.1	103.4	92.1	77.9	60.9	41.1
102.5°	99.2	99.2	100.6	100.6	102.0	99.2	93.5	83.6	69.4	53.8	35.4
105°	92.1	92.1	93.5	93.5	92.1	89.3	83.6	75.1	62.3	46.8	31.2
107.5°	86.4	86.4	86.4	86.4	85.0	82.2	76.5	66.6	55.3	42.5	28.3
110°	82.2	80.8	80.8	79.3	77.9	73.7	68.0	59.5	49.6	36.8	24.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	77.9	76.5	75.1	73.7	70.8	66.6	60.9	53.8	43.9	32.6	21.3
115°	73.7	72.3	70.8	68.0	65.2	60.9	55.3	48.2	38.3	28.3	18.4
117.5°	69.4	68.0	65.2	62.3	59.5	55.3	49.6	42.5	34.0	25.5	17.0
120°	63.8	62.3	60.9	58.1	55.3	49.6	43.9	38.3	29.8	22.7	14.2
122.5°	59.5	58.1	55.3	53.8	49.6	45.3	39.7	34.0	26.9	19.8	12.8
125°	53.8	52.4	51.0	48.2	45.3	39.7	35.4	29.8	24.1	17.0	9.9
127.5°	49.6	48.2	45.3	42.5	39.7	35.4	31.2	26.9	21.3	14.2	9.9
130°	43.9	42.5	41.1	38.3	35.4	31.2	28.3	22.7	18.4	12.8	8.5
132.5°	38.3	38.3	36.8	34.0	31.2	28.3	24.1	19.8	15.6	11.3	7.1
135°	35.4	34.0	32.6	29.8	28.3	24.1	21.3	17.0	12.8	9.9	5.7
137.5°	31.2	29.8	28.3	26.9	24.1	21.3	18.4	14.2	11.3	8.5	5.7
140°	26.9	25.5	25.5	22.7	21.3	18.4	15.6	12.8	9.9	7.1	4.3
142.5°	24.1	22.7	21.3	19.8	18.4	15.6	12.8	9.9	8.5	5.7	4.3
145°	21.3	19.8	18.4	17.0	15.6	12.8	11.3	8.5	7.1	5.7	4.3
147.5°	17.0	17.0	15.6	14.2	12.8	11.3	9.9	8.5	5.7	4.3	2.8
150°	14.2	14.2	12.8	11.3	11.3	9.9	8.5	7.1	5.7	4.3	2.8
152.5°	12.8	11.3	11.3	9.9	9.9	8.5	7.1	5.7	4.3	4.3	2.8
155°	9.9	9.9	9.9	8.5	8.5	7.1	5.7	5.7	4.3	2.8	2.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9
2.5°	2747.2	2730.2	2744.4	2769.9	2767.0	2764.2	2761.4	2767.0	2785.4	2775.5	2759.9
5°	2742.9	2725.9	2741.5	2765.6	2764.2	2759.9	2757.1	2762.8	2781.2	2771.3	2754.3
7.5°	2734.4	2718.9	2730.2	2754.3	2754.3	2751.4	2748.6	2754.3	2771.3	2762.8	2745.8
10°	2720.3	2708.9	2720.3	2742.9	2744.4	2738.7	2735.9	2742.9	2759.9	2755.7	2741.5
12.5°	2708.9	2697.6	2710.4	2733.0	2734.4	2728.8	2724.5	2733.0	2755.7	2758.5	2754.3
15°	2693.4	2683.4	2699.0	2723.1	2723.1	2718.9	2718.9	2730.2	2761.4	2774.1	2781.2
17.5°	2670.7	2663.6	2682.0	2706.1	2707.5	2704.7	2706.1	2728.8	2769.9	2801.0	2820.9
20°	2642.4	2639.5	2659.4	2684.9	2689.1	2690.5	2697.6	2731.6	2788.3	2830.8	2850.6
22.5°	2608.3	2609.8	2632.4	2659.4	2665.0	2669.3	2683.4	2731.6	2802.5	2847.8	2856.3
25°	2570.1	2574.3	2598.4	2631.0	2638.1	2646.6	2670.7	2733.0	2806.7	2836.5	2822.3
27.5°	2529.0	2537.5	2568.7	2602.7	2611.2	2625.3	2656.5	2724.5	2786.9	2788.3	2735.9
30°	2486.5	2496.4	2533.3	2572.9	2587.1	2601.3	2639.5	2704.7	2738.7	2693.4	2601.3
32.5°	2438.3	2452.5	2489.3	2537.5	2554.5	2572.9	2611.2	2666.4	2653.7	2555.9	2424.2
35°	2377.4	2397.2	2439.7	2496.4	2512.0	2536.1	2563.0	2575.8	2519.1	2380.2	2231.5
37.5°	2302.3	2332.1	2381.7	2446.8	2463.8	2479.4	2486.5	2451.1	2337.7	2187.6	2033.1
40°	2215.9	2261.2	2315.1	2387.3	2404.3	2404.3	2378.8	2303.7	2160.6	1963.7	1792.3
42.5°	2111.0	2166.3	2234.3	2306.6	2323.6	2303.7	2242.8	2111.0	1948.1	1728.5	1547.2
45°	1983.5	2057.2	2133.7	2208.8	2217.3	2173.4	2064.3	1897.1	1695.9	1491.9	1319.1
47.5°	1831.9	1928.3	2011.9	2096.9	2085.5	2011.9	1865.9	1676.1	1463.6	1270.9	1132.0
50°	1661.9	1775.3	1868.8	1949.5	1925.4	1823.4	1652.0	1453.6	1242.5	1078.2	963.4
52.5°	1480.6	1610.9	1704.4	1769.6	1737.0	1615.2	1426.7	1236.9	1064.0	913.8	837.3
55°	1292.1	1423.9	1520.2	1571.2	1528.7	1397.0	1211.4	1038.5	875.6	777.8	732.5
57.5°	1109.4	1232.6	1323.3	1364.4	1310.5	1178.8	1007.4	861.4	743.8	661.7	639.0
60°	933.7	1034.3	1120.7	1151.9	1093.8	971.9	824.6	708.4	622.0	565.3	554.0
62.5°	770.7	852.9	920.9	945.0	888.3	793.4	665.9	579.5	518.6	490.2	476.0
65°	636.1	684.3	753.7	749.5	715.5	627.6	534.1	473.2	433.5	415.1	406.6
67.5°	500.1	544.1	588.0	593.6	551.1	490.2	429.3	385.4	364.1	354.2	350.0
70°	386.8	419.4	446.3	439.2	416.5	378.3	340.0	315.9	307.4	303.2	303.2
72.5°	300.4	317.4	330.1	321.6	307.4	287.6	269.2	259.3	260.7	263.5	266.4
75°	232.4	236.6	239.4	230.9	228.1	215.4	213.9	215.4	223.9	232.4	236.6
77.5°	178.5	172.9	168.6	160.1	161.5	160.1	167.2	178.5	191.3	204.0	215.4
80°	137.4	124.7	114.8	106.3	110.5	117.6	131.8	148.8	165.8	179.9	194.1
82.5°	106.3	87.8	73.7	65.2	73.7	85.0	103.4	124.7	144.5	160.1	175.7
85°	82.2	60.9	43.9	35.4	43.9	60.9	80.8	104.8	126.1	143.1	158.7
87.5°	63.8	43.9	24.1	14.2	24.1	42.5	65.2	87.8	109.1	128.9	144.5
90°	51.0	29.8	11.3	2.8	12.8	29.8	51.0	73.7	94.9	116.2	131.8
92.5°	41.1	21.3	5.7	0.0	7.1	22.7	42.5	63.8	85.0	104.8	120.4
95°	34.0	17.0	4.3	0.0	5.7	17.0	34.0	55.3	75.1	94.9	107.7
97.5°	28.3	12.8	2.8	0.0	2.8	14.2	28.3	46.8	66.6	85.0	97.8
100°	24.1	11.3	2.8	0.0	2.8	11.3	24.1	41.1	58.1	75.1	87.8
102.5°	19.8	8.5	1.4	1.4	1.4	8.5	21.3	35.4	51.0	66.6	79.3
105°	18.4	7.1	1.4	1.4	1.4	7.1	18.4	31.2	45.3	59.5	70.8
107.5°	15.6	5.7	1.4	1.4	1.4	5.7	15.6	26.9	41.1	53.8	63.8
110°	12.8	5.7	1.4	1.4	1.4	5.7	12.8	24.1	35.4	46.8	56.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	11.3	4.3	1.4	1.4	1.4	4.3	11.3	21.3	31.2	42.5	51.0
115°	9.9	4.3	1.4	1.4	1.4	4.3	9.9	18.4	26.9	36.8	45.3
117.5°	8.5	4.3	1.4	1.4	1.4	2.8	8.5	15.6	24.1	32.6	41.1
120°	7.1	2.8	1.4	1.4	1.4	2.8	7.1	14.2	21.3	28.3	35.4
122.5°	7.1	2.8	1.4	1.4	1.4	2.8	5.7	11.3	18.4	24.1	31.2
125°	5.7	2.8	1.4	1.4	1.4	1.4	5.7	9.9	15.6	21.3	26.9
127.5°	5.7	2.8	1.4	1.4	1.4	1.4	4.3	8.5	12.8	18.4	24.1
130°	4.3	2.8	1.4	1.4	1.4	1.4	2.8	7.1	11.3	15.6	19.8
132.5°	4.3	2.8	1.4	1.4	1.4	1.4	2.8	5.7	8.5	12.8	17.0
135°	4.3	1.4	1.4	1.4	1.4	1.4	1.4	4.3	7.1	9.9	12.8
137.5°	2.8	1.4	1.4	1.4	1.4	1.4	1.4	2.8	5.7	7.1	11.3
140°	2.8	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.3	5.7	8.5
142.5°	2.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.3	7.1
145°	2.8	1.4	1.4	2.8	2.8	1.4	1.4	2.8	2.8	4.3	5.7
147.5°	2.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	4.3
150°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3
152.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
155°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9
2.5°	2757.1	2724.5	2741.5	2735.9	2741.5	2755.7	2754.3	2750.0	2752.9	2745.8	2738.7
5°	2751.4	2718.9	2735.9	2728.8	2735.9	2750.0	2747.2	2742.9	2747.2	2738.7	2731.6
7.5°	2744.4	2714.6	2734.4	2733.0	2745.8	2764.2	2765.6	2765.6	2775.5	2762.8	2757.1
10°	2744.4	2728.8	2755.7	2765.6	2798.2	2822.3	2825.1	2830.8	2847.8	2845.0	2830.8
12.5°	2774.1	2771.3	2811.0	2835.0	2864.8	2898.8	2917.2	2922.9	2934.2	2925.7	2920.0
15°	2812.4	2826.5	2870.5	2897.4	2930.0	2955.5	2959.7	2962.6	2971.1	2958.3	2948.4
17.5°	2863.4	2871.9	2907.3	2918.6	2939.9	2944.1	2938.5	2924.3	2924.3	2896.0	2887.5
20°	2887.5	2883.2	2897.4	2879.0	2870.5	2845.0	2820.9	2793.9	2792.5	2762.8	2759.9
22.5°	2866.2	2837.9	2808.1	2762.8	2742.9	2706.1	2673.5	2657.9	2648.0	2609.8	2599.8
25°	2791.1	2721.7	2677.8	2623.9	2575.8	2533.3	2502.1	2469.5	2438.3	2407.2	2393.0
27.5°	2660.8	2595.6	2524.8	2449.7	2383.1	2317.9	2265.5	2232.9	2203.1	2162.1	2140.8
30°	2500.7	2410.0	2332.1	2259.8	2150.7	2071.4	2027.5	1962.3	1939.6	1921.2	1881.5
32.5°	2312.2	2203.1	2096.9	1999.1	1887.2	1813.5	1755.4	1707.3	1693.1	1644.9	1633.6
35°	2104.0	1960.9	1840.4	1744.1	1663.3	1574.1	1525.9	1493.3	1465.0	1432.4	1426.7
37.5°	1858.9	1729.9	1593.9	1508.9	1445.1	1368.6	1331.8	1309.1	1296.4	1272.3	1268.0
40°	1612.3	1483.4	1389.9	1304.9	1265.2	1224.1	1197.2	1187.3	1181.6	1173.1	1164.6
42.5°	1388.5	1275.1	1208.5	1151.9	1134.9	1115.0	1107.9	1113.6	1107.9	1105.1	1103.7
45°	1198.6	1112.2	1065.4	1048.4	1044.2	1038.5	1044.2	1054.1	1055.5	1052.7	1052.7
47.5°	1025.8	984.7	964.8	967.7	974.8	979.0	988.9	1001.7	1004.5	997.4	1000.3
50°	912.4	888.3	884.1	895.4	911.0	916.7	928.0	937.9	936.5	933.7	930.8
52.5°	806.2	799.1	810.4	821.7	838.8	841.6	845.8	850.1	848.7	843.0	840.2
55°	716.9	722.6	732.5	736.7	749.5	748.1	749.5	749.5	743.8	741.0	736.7
57.5°	636.1	637.6	643.2	644.6	651.7	648.9	647.5	644.6	636.1	634.7	630.5
60°	554.0	551.1	563.9	554.0	559.6	554.0	552.6	545.5	537.0	535.6	532.7
62.5°	476.0	470.4	478.9	474.6	477.5	471.8	469.0	460.5	453.4	452.0	450.5
65°	406.6	403.8	412.3	410.9	413.7	406.6	403.8	398.1	392.5	391.0	389.6
67.5°	348.5	355.6	359.9	359.9	362.7	361.3	354.2	352.8	351.4	345.7	345.7
70°	306.0	310.3	318.8	320.2	318.8	321.6	315.9	314.5	313.1	310.3	308.9
72.5°	272.0	277.7	286.2	287.6	286.2	286.2	283.4	281.9	281.9	277.7	277.7
75°	245.1	252.2	259.3	259.3	259.3	256.4	253.6	253.6	250.8	249.4	246.5
77.5°	222.4	230.9	236.6	235.2	233.8	230.9	230.9	226.7	222.4	222.4	219.6
80°	205.4	211.1	215.4	213.9	212.5	208.3	206.9	202.6	199.8	195.5	195.5
82.5°	187.0	194.1	196.9	195.5	192.7	188.4	187.0	184.2	181.4	179.9	177.1
85°	171.4	178.5	179.9	177.1	174.3	171.4	170.0	168.6	167.2	164.3	164.3
87.5°	155.8	162.9	162.9	161.5	158.7	157.3	155.8	154.4	153.0	151.6	150.2
90°	143.1	148.8	148.8	147.3	145.9	144.5	143.1	141.7	140.3	138.8	138.8
92.5°	130.3	136.0	136.0	134.6	133.2	131.8	131.8	130.3	128.9	127.5	126.1
95°	119.0	124.7	124.7	124.7	123.3	121.8	121.8	120.4	119.0	119.0	117.6
97.5°	107.7	113.3	113.3	113.3	111.9	110.5	110.5	109.1	109.1	109.1	107.7
100°	97.8	102.0	103.4	103.4	102.0	102.0	102.0	100.6	100.6	100.6	99.2
102.5°	87.8	92.1	94.9	94.9	94.9	93.5	93.5	93.5	93.5	93.5	92.1
105°	79.3	83.6	86.4	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
107.5°	72.3	76.5	79.3	80.8	82.2	82.2	83.6	83.6	83.6	83.6	83.6
110°	65.2	69.4	73.7	75.1	76.5	77.9	77.9	79.3	77.9	77.9	77.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	58.1	63.8	66.6	69.4	70.8	72.3	73.7	73.7	73.7	73.7	73.7
115°	52.4	58.1	60.9	63.8	66.6	68.0	68.0	69.4	69.4	69.4	68.0
117.5°	46.8	52.4	55.3	58.1	59.5	62.3	63.8	63.8	63.8	63.8	62.3
120°	42.5	46.8	49.6	52.4	55.3	56.7	58.1	58.1	58.1	58.1	58.1
122.5°	36.8	41.1	45.3	48.2	49.6	51.0	52.4	52.4	52.4	52.4	52.4
125°	32.6	36.8	39.7	42.5	43.9	46.8	46.8	46.8	46.8	46.8	46.8
127.5°	28.3	32.6	35.4	38.3	39.7	41.1	42.5	42.5	42.5	42.5	42.5
130°	24.1	28.3	31.2	34.0	35.4	36.8	36.8	38.3	38.3	38.3	38.3
132.5°	21.3	24.1	26.9	29.8	31.2	32.6	32.6	34.0	34.0	34.0	34.0
135°	17.0	21.3	22.7	25.5	26.9	28.3	28.3	29.8	29.8	29.8	29.8
137.5°	14.2	17.0	19.8	22.7	24.1	24.1	25.5	25.5	26.9	26.9	26.9
140°	11.3	12.8	17.0	18.4	19.8	21.3	22.7	22.7	22.7	22.7	22.7
142.5°	8.5	11.3	12.8	15.6	17.0	18.4	19.8	19.8	19.8	19.8	19.8
145°	7.1	8.5	9.9	12.8	14.2	15.6	17.0	17.0	17.0	17.0	17.0
147.5°	5.7	7.1	8.5	9.9	11.3	12.8	14.2	14.2	14.2	14.2	14.2
150°	4.3	5.7	7.1	7.1	8.5	9.9	11.3	12.8	12.8	12.8	12.8
152.5°	4.3	4.3	5.7	5.7	7.1	8.5	9.9	9.9	9.9	9.9	9.9
155°	2.8	4.3	4.3	4.3	5.7	5.7	7.1	8.5	8.5	8.5	8.5
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9
2.5°	2742.9	2748.6	2745.8	2741.5	2740.1	2747.2	2740.1	2707.5	2720.3	2721.7	2731.6
5°	2738.7	2742.9	2740.1	2737.3	2733.0	2741.5	2733.0	2699.0	2711.8	2713.2	2723.1
7.5°	2767.0	2768.4	2768.4	2761.4	2750.0	2754.3	2742.9	2704.7	2711.8	2711.8	2718.9
10°	2837.9	2840.7	2845.0	2826.5	2812.4	2801.0	2785.4	2738.7	2737.3	2725.9	2725.9
12.5°	2930.0	2922.9	2915.8	2907.3	2896.0	2881.8	2859.1	2803.9	2785.4	2767.0	2748.6
15°	2956.9	2954.0	2952.6	2948.4	2941.3	2937.0	2920.0	2864.8	2837.9	2815.2	2782.6
17.5°	2886.0	2891.7	2910.1	2911.5	2920.0	2937.0	2934.2	2896.0	2871.9	2862.0	2822.3
20°	2758.5	2759.9	2782.6	2792.5	2829.4	2857.7	2879.0	2874.7	2869.0	2880.4	2850.6
22.5°	2605.5	2615.4	2639.5	2655.1	2690.5	2723.1	2757.1	2775.5	2805.3	2852.0	2846.4
25°	2397.2	2410.0	2444.0	2469.5	2519.1	2568.7	2614.0	2646.6	2682.0	2771.3	2801.0
27.5°	2147.9	2167.7	2211.6	2237.1	2306.6	2357.6	2422.7	2486.5	2536.1	2638.1	2699.0
30°	1885.8	1902.8	1949.5	1985.0	2044.5	2113.9	2196.1	2286.7	2368.9	2472.3	2548.8
32.5°	1640.7	1659.1	1697.3	1728.5	1795.1	1853.2	1943.9	2055.8	2132.3	2275.4	2377.4
35°	1426.7	1443.7	1470.6	1497.6	1552.8	1612.3	1690.3	1799.3	1897.1	2045.9	2174.8
37.5°	1276.5	1279.4	1295.0	1310.5	1351.6	1397.0	1457.9	1554.2	1644.9	1805.0	1946.7
40°	1168.9	1168.9	1177.4	1181.6	1200.0	1227.0	1265.2	1340.3	1415.4	1537.2	1710.1
42.5°	1102.3	1099.4	1099.4	1100.9	1099.4	1112.2	1134.9	1170.3	1236.9	1337.5	1472.1
45°	1052.7	1047.0	1042.8	1032.9	1027.2	1027.2	1028.6	1041.4	1079.6	1144.8	1253.9
47.5°	997.4	996.0	988.9	977.6	967.7	960.6	949.3	945.0	956.3	993.2	1066.9
50°	933.7	926.6	919.5	911.0	899.7	892.6	871.3	872.8	862.8	879.8	918.1
52.5°	840.2	834.5	831.7	824.6	820.3	817.5	800.5	783.5	779.2	782.1	796.2
55°	736.7	739.6	728.2	733.9	732.5	719.7	712.7	699.9	695.7	694.2	701.3
57.5°	629.1	631.9	624.8	630.5	630.5	623.4	619.1	619.1	609.2	600.7	610.6
60°	531.3	525.6	529.9	537.0	537.0	532.7	529.9	529.9	522.8	520.0	527.1
62.5°	452.0	446.3	450.5	457.6	459.0	456.2	453.4	453.4	444.9	444.9	450.5
65°	391.0	392.5	391.0	396.7	396.7	398.1	395.3	392.5	382.5	386.8	385.4
67.5°	347.1	345.7	345.7	351.4	350.0	352.8	350.0	345.7	338.6	333.0	331.5
70°	310.3	308.9	308.9	311.7	313.1	313.1	311.7	308.9	298.9	293.3	289.0
72.5°	277.7	276.3	277.7	279.1	280.5	281.9	280.5	277.7	269.2	262.1	255.0
75°	247.9	246.5	250.8	250.8	252.2	252.2	253.6	252.2	245.1	236.6	228.1
77.5°	218.2	219.6	223.9	225.3	228.1	229.5	230.9	230.9	223.9	216.8	205.4
80°	194.1	196.9	199.8	201.2	204.0	208.3	209.7	211.1	205.4	198.4	185.6
82.5°	177.1	178.5	181.4	182.8	187.0	188.4	189.9	192.7	189.9	182.8	168.6
85°	162.9	164.3	167.2	167.2	170.0	172.9	174.3	175.7	174.3	167.2	153.0
87.5°	150.2	151.6	153.0	154.4	155.8	157.3	158.7	160.1	158.7	151.6	138.8
90°	138.8	138.8	140.3	140.3	141.7	143.1	145.9	145.9	144.5	138.8	126.1
92.5°	126.1	127.5	127.5	128.9	130.3	131.8	133.2	133.2	131.8	126.1	114.8
95°	117.6	117.6	119.0	119.0	120.4	120.4	121.8	121.8	120.4	114.8	103.4
97.5°	107.7	107.7	107.7	107.7	109.1	109.1	110.5	110.5	109.1	103.4	93.5
100°	99.2	99.2	99.2	99.2	99.2	100.6	100.6	100.6	99.2	93.5	83.6
102.5°	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	89.3	85.0	75.1
105°	87.8	87.8	87.8	86.4	86.4	86.4	85.0	85.0	80.8	76.5	68.0
107.5°	82.2	82.2	82.2	80.8	80.8	79.3	77.9	77.9	73.7	69.4	60.9
110°	77.9	77.9	77.9	76.5	75.1	73.7	72.3	70.8	66.6	60.9	53.8





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	73.7	73.7	72.3	72.3	70.8	69.4	66.6	65.2	60.9	55.3	48.2
115°	68.0	68.0	68.0	66.6	65.2	63.8	62.3	59.5	55.3	49.6	42.5
117.5°	62.3	62.3	62.3	60.9	59.5	58.1	56.7	53.8	49.6	43.9	38.3
120°	56.7	56.7	56.7	55.3	53.8	52.4	51.0	48.2	43.9	39.7	32.6
122.5°	52.4	52.4	51.0	49.6	48.2	46.8	45.3	42.5	39.7	34.0	28.3
125°	46.8	46.8	45.3	45.3	43.9	42.5	41.1	38.3	34.0	29.8	25.5
127.5°	42.5	41.1	41.1	41.1	39.7	38.3	35.4	34.0	29.8	25.5	21.3
130°	36.8	36.8	36.8	35.4	35.4	34.0	31.2	28.3	25.5	22.7	18.4
132.5°	32.6	32.6	32.6	32.6	31.2	29.8	26.9	25.5	22.7	18.4	15.6
135°	29.8	29.8	28.3	28.3	26.9	25.5	24.1	21.3	18.4	15.6	12.8
137.5°	25.5	25.5	25.5	24.1	24.1	22.7	19.8	18.4	17.0	14.2	11.3
140°	22.7	22.7	21.3	21.3	19.8	19.8	18.4	15.6	14.2	11.3	9.9
142.5°	19.8	19.8	18.4	18.4	17.0	17.0	15.6	14.2	11.3	9.9	7.1
145°	17.0	17.0	15.6	15.6	15.6	14.2	12.8	11.3	9.9	8.5	7.1
147.5°	14.2	14.2	14.2	12.8	12.8	11.3	11.3	9.9	8.5	7.1	5.7
150°	12.8	12.8	11.3	11.3	11.3	9.9	8.5	8.5	7.1	5.7	4.3
152.5°	9.9	9.9	9.9	9.9	8.5	8.5	7.1	7.1	5.7	4.3	4.3
155°	8.5	8.5	8.5	7.1	7.1	7.1	5.7	5.7	4.3	4.3	2.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9	2742.9
2.5°	2727.4	2725.9	2738.7	2737.3	2720.3	2745.8	2762.8
5°	2720.3	2718.9	2730.2	2733.0	2714.6	2741.5	2759.9
7.5°	2714.6	2713.2	2725.9	2730.2	2711.8	2735.9	2755.7
10°	2716.0	2708.9	2720.3	2723.1	2706.1	2731.6	2748.6
12.5°	2725.9	2708.9	2713.2	2713.2	2697.6	2720.3	2738.7
15°	2750.0	2714.6	2708.9	2704.7	2684.9	2706.1	2724.5
17.5°	2776.9	2728.8	2708.9	2694.8	2670.7	2689.1	2708.9
20°	2803.9	2744.4	2711.8	2689.1	2656.5	2673.5	2687.7
22.5°	2816.6	2758.5	2714.6	2680.6	2639.5	2648.0	2663.6
25°	2799.6	2752.9	2708.9	2667.9	2618.3	2619.7	2632.4
27.5°	2737.3	2724.5	2696.2	2655.1	2601.3	2594.2	2604.1
30°	2631.0	2666.4	2667.9	2638.1	2581.4	2567.3	2571.5
32.5°	2482.3	2561.6	2608.3	2602.7	2553.1	2533.3	2536.1
35°	2310.8	2410.0	2512.0	2546.0	2510.6	2495.0	2489.3
37.5°	2105.4	2238.6	2374.6	2458.2	2452.5	2442.6	2436.9
40°	1878.7	2038.8	2200.3	2333.5	2374.6	2374.6	2377.4
42.5°	1636.4	1823.4	2000.5	2169.1	2265.5	2286.7	2295.2
45°	1402.6	1591.1	1783.8	1977.9	2106.8	2173.4	2197.5
47.5°	1190.1	1380.0	1562.7	1775.3	1946.7	2033.1	2071.4
50°	1008.8	1150.4	1343.1	1554.2	1741.3	1847.5	1922.6
52.5°	858.6	969.1	1137.7	1334.6	1523.1	1669.0	1738.4
55°	732.5	807.6	950.7	1120.7	1300.6	1452.2	1533.0
57.5°	626.2	685.7	783.5	925.2	1076.8	1227.0	1313.4
60°	532.7	573.8	640.4	752.3	881.3	1010.2	1093.8
62.5°	452.0	478.9	522.8	605.0	705.6	806.2	884.1
65°	389.6	401.0	425.0	476.0	552.6	629.1	695.7
67.5°	328.7	335.8	354.2	385.4	423.6	478.9	522.8
70°	283.4	283.4	284.8	303.2	323.0	358.5	389.6
72.5°	246.5	242.3	233.8	238.0	242.3	262.1	281.9
75°	216.8	206.9	192.7	187.0	184.2	187.0	198.4
77.5°	191.3	177.1	160.1	145.9	134.6	130.3	140.3
80°	170.0	153.0	133.2	114.8	96.3	86.4	90.7
82.5°	153.0	131.8	110.5	89.3	68.0	53.8	53.8
85°	134.6	114.8	92.1	69.4	48.2	29.8	26.9
87.5°	121.8	100.6	76.5	55.3	34.0	15.6	8.5
90°	109.1	87.8	65.2	43.9	24.1	7.1	0.0
92.5°	97.8	77.9	56.7	35.4	17.0	4.3	0.0
95°	87.8	69.4	48.2	29.8	14.2	2.8	1.4
97.5°	77.9	60.9	42.5	24.1	9.9	2.8	1.4
100°	70.8	53.8	36.8	19.8	8.5	1.4	1.4
102.5°	62.3	48.2	31.2	17.0	7.1	1.4	1.4
105°	55.3	42.5	26.9	14.2	5.7	1.4	1.4
107.5°	49.6	36.8	24.1	12.8	5.7	1.4	1.4
110°	43.9	32.6	21.3	11.3	4.3	1.4	1.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	39.7	28.3	18.4	9.9	2.8	1.4	1.4
115°	34.0	25.5	15.6	8.5	2.8	1.4	1.4
117.5°	29.8	21.3	14.2	7.1	2.8	1.4	1.4
120°	25.5	18.4	11.3	5.7	1.4	1.4	1.4
122.5°	22.7	15.6	9.9	5.7	1.4	1.4	1.4
125°	19.8	14.2	8.5	4.3	1.4	1.4	1.4
127.5°	17.0	11.3	7.1	2.8	1.4	1.4	1.4
130°	14.2	9.9	5.7	2.8	1.4	1.4	1.4
132.5°	11.3	8.5	5.7	2.8	1.4	1.4	1.4
135°	9.9	7.1	4.3	2.8	1.4	1.4	1.4
137.5°	8.5	5.7	2.8	2.8	2.8	1.4	1.4
140°	7.1	4.3	2.8	2.8	2.8	2.8	1.4
142.5°	5.7	4.3	2.8	2.8	2.8	2.8	1.4
145°	4.3	2.8	2.8	2.8	2.8	2.8	1.4
147.5°	4.3	2.8	2.8	2.8	2.8	2.8	1.4
150°	2.8	2.8	2.8	2.8	2.8	2.8	2.8
152.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8
155°	2.8	2.8	2.8	2.8	2.8	2.8	2.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)