

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-LD5-91SL-LN-UNV-L930-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 (P33519)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-91SL-LN-UNV-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

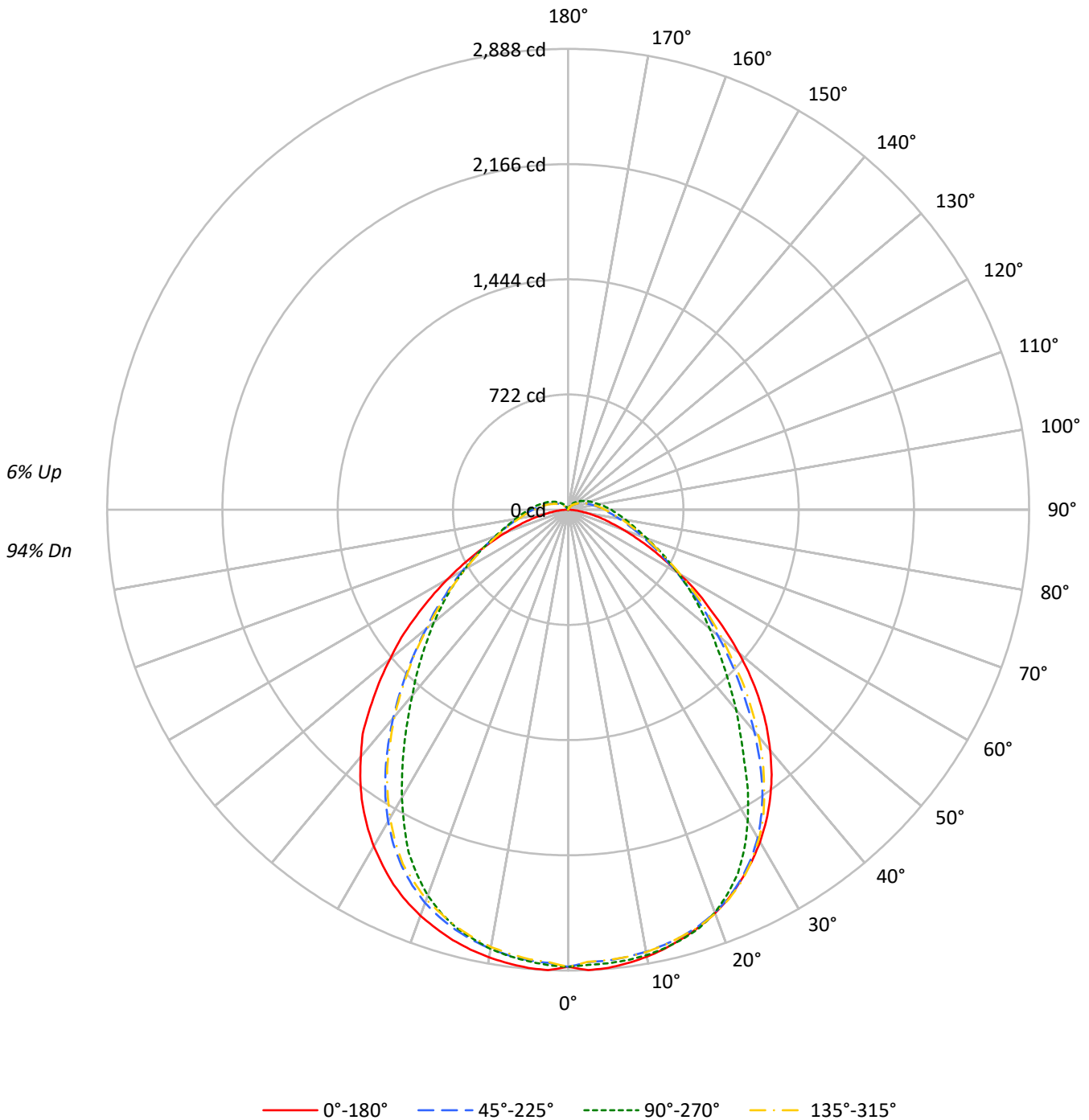
Lumens per Lamp: N/A
Luminaire Lumens: 7250.0 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 69
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



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CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L930-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	114	114	114	114	108	108	108	102	102	102	96	96	96	94				
1	107	103	98	95	104	100	96	92	94	91	88	89	87	85	85	83	81	79				
2	98	90	84	78	95	88	82	77	83	78	74	79	75	72	75	72	69	67				
3	90	80	72	66	87	78	71	65	74	68	63	71	66	61	67	63	60	57				
4	83	72	63	57	80	70	62	56	67	60	55	64	58	53	61	56	52	50				
5	77	64	56	50	74	63	55	49	60	53	48	58	52	47	55	50	46	44				
6	71	58	50	44	69	57	49	43	55	48	42	52	46	42	50	45	41	39				
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37	35				
8	62	49	41	35	60	48	40	35	46	39	34	44	38	34	43	37	33	31				
9	58	45	37	32	56	44	37	31	42	36	31	41	35	30	40	34	30	28				
10	54	42	34	29	53	41	34	29	39	33	28	38	32	28	37	31	27	26				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11575	11575	11575	11575
5°	11674	11206	11674	11157
10°	11638	10909	11657	10757
15°	11579	10583	11632	10307
20°	11507	10164	11575	9735
25°	11340	9542	11466	8980
30°	11119	8628	11265	7988
35°	10764	7509	10971	6992
40°	10247	6567	10518	6093
45°	9557	5709	9867	5381
50°	8606	5017	8985	4763
55°	7470	4430	8013	4206
60°	6311	3889	6881	3665
65°	5204	3439	5729	3189
70°	4176	3052	4677	2822
75°	3323	2817	3742	2592
80°	2458	2719	2896	2485
85°	1613	2734	2171	2513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.6	3.7
10°-20°	778.8	10.7
20°-30°	1154.2	15.9
30°-40°	1282.3	17.7
40°-50°	1162.4	16.0
50°-60°	900.7	12.4
60°-70°	611.6	8.4
70°-80°	389.1	5.4
80°-90°	248.8	3.4
90°-100°	167.7	2.3
100°-110°	114.9	1.6
110°-120°	76.6	1.1
120°-130°	47.7	0.7
130°-140°	26.4	0.4
140°-150°	12.4	0.2
150°-160°	4.5	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	2204.6	30.4
0°-40°	3486.9	48.1
0°-60°	5549.9	76.6
0°-90°	6799.5	93.8
90°-120°	359.3	5.0
90°-150°	445.7	6.1
90°-180°	451.0	6.2
0°-180°	7250.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2865	2865	2865	2865	2865	
5°	2882	2854	2882	2841	2882	274
15°	2780	2784	2792	2712	2780	785
25°	2562	2515	2591	2367	2562	1180
35°	2206	1922	2249	1790	2206	1376
45°	1699	1374	1754	1295	1699	1305
55°	1084	966	1163	917	1084	976
65°	563	649	619	602	563	564
75°	225	433	254	399	225	243
85°	41	312	55	287	41	49
90°	0	270	3	246	0	2
95°	2	230	0	214	2	1
105°	2	169	0	159	2	2
115°	2	128	0	118	2	2
125°	2	94	2	84	2	1
135°	2	66	2	54	2	1
145°	2	42	2	30	2	1
155°	2	24	2	11	2	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8
2.5°	2888.4	2885.3	2882.1	2877.4	2882.1	2894.7	2886.8	2869.5	2866.4	2838.0	2850.6
5°	2882.1	2877.4	2874.2	2869.5	2875.8	2891.6	2883.7	2867.9	2863.2	2836.4	2850.6
7.5°	2866.4	2863.2	2858.5	2858.5	2864.8	2880.5	2874.2	2856.9	2853.7	2827.0	2842.7
10°	2844.3	2842.7	2839.6	2839.6	2845.9	2864.8	2856.9	2841.1	2838.0	2812.8	2830.1
12.5°	2815.9	2817.5	2812.8	2812.8	2822.2	2841.1	2834.8	2817.5	2814.4	2792.3	2809.6
15°	2779.7	2781.3	2778.1	2779.7	2789.1	2811.2	2803.3	2787.6	2784.4	2767.1	2781.3
17.5°	2738.7	2740.3	2740.3	2738.7	2749.7	2771.8	2765.5	2751.3	2746.6	2732.4	2749.7
20°	2691.4	2691.4	2691.4	2691.4	2704.0	2726.1	2718.2	2707.2	2697.7	2686.7	2700.9
22.5°	2633.1	2631.6	2633.1	2637.9	2650.5	2667.8	2663.1	2650.5	2636.3	2630.0	2641.0
25°	2562.2	2567.0	2568.5	2573.3	2589.0	2603.2	2598.5	2585.9	2563.8	2559.1	2562.2
27.5°	2488.2	2491.3	2496.0	2494.5	2516.5	2530.7	2521.3	2510.2	2478.7	2474.0	2470.8
30°	2404.6	2409.4	2412.5	2411.0	2428.3	2444.0	2434.6	2420.4	2377.9	2374.7	2349.5
32.5°	2310.1	2314.8	2318.0	2318.0	2343.2	2349.5	2332.2	2311.7	2266.0	2254.9	2232.9
35°	2206.1	2210.8	2212.4	2212.4	2237.6	2236.0	2214.0	2185.6	2135.2	2121.0	2083.2
37.5°	2094.2	2097.4	2098.9	2108.4	2119.4	2110.0	2081.6	2045.4	2007.6	1968.2	1927.2
40°	1968.2	1972.9	1976.0	1982.3	1993.4	1982.3	1941.4	1897.2	1856.3	1812.2	1771.2
42.5°	1838.9	1853.1	1850.0	1848.4	1854.7	1824.8	1793.2	1742.8	1701.8	1656.2	1615.2
45°	1698.7	1697.1	1705.0	1708.2	1706.6	1681.4	1637.2	1591.5	1550.6	1503.3	1468.6
47.5°	1550.6	1549.0	1555.3	1558.5	1549.0	1522.2	1487.5	1435.5	1400.9	1359.9	1333.1
50°	1394.6	1394.6	1404.0	1394.6	1389.8	1363.1	1334.7	1282.7	1255.9	1219.7	1203.9
52.5°	1238.6	1252.7	1243.3	1240.1	1235.4	1208.6	1186.6	1144.0	1122.0	1106.2	1087.3
55°	1084.1	1099.9	1093.6	1088.9	1087.3	1065.2	1044.7	1013.2	999.0	988.0	977.0
57.5°	953.4	951.8	948.6	943.9	945.5	928.1	907.7	890.3	884.0	879.3	882.4
60°	802.1	814.7	810.0	811.5	813.1	810.0	792.6	781.6	783.2	784.7	789.5
62.5°	677.6	688.6	696.5	690.2	693.3	698.1	688.6	685.5	691.8	698.1	704.4
65°	562.6	573.6	581.5	579.9	589.3	598.8	597.2	600.4	614.6	622.4	630.3
67.5°	458.6	469.6	480.6	482.2	496.4	510.6	516.9	527.9	543.6	554.7	564.1
70°	368.7	378.2	390.8	398.7	417.6	436.5	447.5	469.6	479.0	494.8	501.1
72.5°	288.4	296.2	313.6	332.5	348.2	371.9	393.9	412.9	427.0	444.4	452.3
75°	225.3	228.5	247.4	269.5	291.5	318.3	341.9	362.4	381.3	398.7	411.3
77.5°	165.5	170.2	187.5	217.5	242.7	271.0	297.8	319.9	340.4	357.7	375.0
80°	115.0	124.5	143.4	173.3	201.7	233.2	258.4	283.6	305.7	323.0	340.4
82.5°	74.1	81.9	108.7	138.7	168.6	200.1	226.9	252.1	275.8	294.7	310.4
85°	41.0	52.0	78.8	110.3	140.2	171.8	200.1	225.3	249.0	266.3	282.1
87.5°	15.8	31.5	56.7	86.7	116.6	146.5	176.5	200.1	223.8	242.7	256.9
90°	0.0	18.9	42.5	72.5	102.4	132.4	160.7	185.9	208.0	225.3	241.1
92.5°	1.6	12.6	33.1	58.3	86.7	115.0	141.8	167.0	189.1	206.4	220.6
95°	1.6	9.5	26.8	50.4	75.6	102.4	127.6	151.3	171.8	189.1	203.3
97.5°	1.6	6.3	22.1	44.1	66.2	93.0	116.6	138.7	157.6	174.9	185.9
100°	1.6	6.3	18.9	37.8	59.9	83.5	105.6	127.6	145.0	159.2	171.8
102.5°	1.6	4.7	15.8	33.1	53.6	74.1	96.1	116.6	132.4	146.5	159.2
105°	1.6	4.7	14.2	28.4	47.3	67.8	86.7	105.6	122.9	135.5	146.5
107.5°	1.6	3.2	12.6	23.6	41.0	61.5	80.4	96.1	111.9	124.5	135.5
110°	1.6	3.2	11.0	22.1	36.2	55.2	72.5	88.2	102.4	115.0	124.5



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CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.6	3.2	9.5	20.5	33.1	48.8	66.2	80.4	94.5	105.6	115.0
115°	1.6	3.2	9.5	18.9	29.9	42.5	58.3	74.1	85.1	97.7	105.6
117.5°	1.6	3.2	7.9	15.8	28.4	39.4	53.6	66.2	78.8	89.8	97.7
120°	1.6	3.2	7.9	14.2	25.2	36.2	47.3	59.9	72.5	80.4	88.2
122.5°	1.6	3.2	6.3	14.2	22.1	33.1	42.5	53.6	64.6	74.1	81.9
125°	1.6	3.2	6.3	12.6	20.5	29.9	39.4	47.3	58.3	66.2	74.1
127.5°	1.6	3.2	6.3	11.0	18.9	26.8	36.2	44.1	52.0	59.9	66.2
130°	1.6	3.2	4.7	9.5	17.3	23.6	31.5	41.0	47.3	53.6	59.9
132.5°	1.6	3.2	4.7	9.5	14.2	20.5	28.4	36.2	42.5	48.8	53.6
135°	1.6	3.2	4.7	7.9	12.6	18.9	23.6	31.5	37.8	44.1	48.8
137.5°	1.6	3.2	4.7	7.9	11.0	15.8	20.5	26.8	33.1	37.8	44.1
140°	1.6	3.2	4.7	6.3	9.5	14.2	18.9	22.1	28.4	33.1	37.8
142.5°	1.6	3.2	4.7	6.3	9.5	12.6	15.8	18.9	23.6	28.4	33.1
145°	1.6	3.2	4.7	6.3	7.9	11.0	14.2	17.3	18.9	23.6	26.8
147.5°	1.6	3.2	4.7	6.3	6.3	9.5	12.6	14.2	17.3	18.9	22.1
150°	1.6	3.2	4.7	4.7	6.3	7.9	11.0	12.6	14.2	17.3	18.9
152.5°	1.6	3.2	4.7	4.7	6.3	7.9	9.5	11.0	12.6	14.2	15.8
155°	1.6	3.2	4.7	4.7	4.7	6.3	7.9	9.5	11.0	12.6	14.2
157.5°	3.2	3.2	3.2	4.7	4.7	6.3	6.3	7.9	9.5	9.5	11.0
160°	3.2	3.2	3.2	4.7	4.7	4.7	6.3	6.3	7.9	7.9	9.5
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-LD5-91SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8
2.5°	2847.4	2852.2	2866.4	2866.4	2863.2	2860.1	2860.1	2855.3	2858.5	2864.8	2861.6
5°	2847.4	2852.2	2866.4	2866.4	2863.2	2860.1	2858.5	2853.7	2858.5	2864.8	2861.6
7.5°	2838.0	2844.3	2858.5	2858.5	2855.3	2853.7	2850.6	2847.4	2852.2	2858.5	2855.3
10°	2825.4	2831.7	2845.9	2845.9	2842.7	2842.7	2838.0	2834.8	2841.1	2845.9	2844.3
12.5°	2806.5	2814.4	2827.0	2825.4	2822.2	2823.8	2819.1	2812.8	2819.1	2823.8	2825.4
15°	2779.7	2789.1	2801.7	2798.6	2793.9	2797.0	2789.1	2784.4	2789.1	2798.6	2797.0
17.5°	2745.0	2751.3	2760.8	2760.8	2756.0	2752.9	2749.7	2745.0	2748.2	2754.5	2756.0
20°	2696.2	2704.0	2708.8	2704.0	2702.5	2697.7	2691.4	2686.7	2693.0	2702.5	2704.0
22.5°	2631.6	2633.1	2644.2	2633.1	2625.3	2623.7	2617.4	2607.9	2617.4	2625.3	2626.8
25°	2551.2	2559.1	2554.3	2535.4	2535.4	2522.8	2519.7	2515.0	2516.5	2530.7	2537.0
27.5°	2448.8	2451.9	2439.3	2423.6	2409.4	2401.5	2390.5	2392.0	2392.0	2411.0	2417.3
30°	2336.9	2319.6	2308.5	2283.3	2272.3	2253.4	2250.2	2250.2	2247.1	2256.5	2284.9
32.5°	2202.9	2179.3	2162.0	2138.3	2119.4	2100.5	2091.1	2095.8	2094.2	2117.9	2127.3
35°	2056.4	2042.2	2006.0	1976.0	1965.0	1936.6	1936.6	1922.5	1931.9	1958.7	1969.7
37.5°	1902.0	1879.9	1850.0	1816.9	1809.0	1786.9	1779.1	1771.2	1791.7	1796.4	1807.4
40°	1744.4	1723.9	1695.5	1664.0	1664.0	1637.2	1637.2	1637.2	1638.8	1648.3	1668.8
42.5°	1594.7	1572.6	1547.4	1525.4	1522.2	1501.7	1501.7	1500.1	1503.3	1511.2	1530.1
45°	1449.7	1432.4	1405.6	1394.6	1396.1	1374.1	1378.8	1374.1	1380.4	1388.3	1394.6
47.5°	1315.8	1304.8	1293.7	1278.0	1273.2	1271.7	1263.8	1257.5	1268.5	1268.5	1278.0
50°	1191.3	1185.0	1178.7	1169.2	1170.8	1164.5	1155.1	1155.1	1162.9	1164.5	1170.8
52.5°	1082.6	1074.7	1066.8	1068.4	1070.0	1066.8	1062.1	1057.4	1062.1	1065.2	1073.1
55°	973.8	967.5	975.4	972.3	975.4	972.3	969.1	966.0	973.8	969.1	977.0
57.5°	876.1	882.4	885.6	879.3	884.0	880.9	882.4	877.7	884.0	887.2	885.6
60°	786.3	795.8	791.0	792.6	798.9	795.8	789.5	794.2	800.5	802.1	800.5
62.5°	704.4	715.4	720.1	717.0	718.6	715.4	720.1	713.8	721.7	724.9	720.1
65°	630.3	642.9	646.1	646.1	646.1	642.9	647.6	649.2	652.4	652.4	649.2
67.5°	567.3	578.3	581.5	584.6	581.5	578.3	578.3	579.9	586.2	589.3	586.2
70°	510.6	521.6	523.2	523.2	524.7	527.9	521.6	524.7	529.5	531.0	529.5
72.5°	461.7	472.7	475.9	474.3	475.9	477.5	477.5	474.3	479.0	482.2	482.2
75°	422.3	428.6	431.8	431.8	433.3	434.9	434.9	433.3	436.5	438.1	439.6
77.5°	386.1	390.8	395.5	395.5	397.1	395.5	398.7	398.7	400.2	401.8	403.4
80°	349.8	356.1	359.3	360.9	364.0	365.6	365.6	365.6	367.2	368.7	368.7
82.5°	321.5	326.2	330.9	335.6	335.6	337.2	337.2	337.2	338.8	338.8	340.4
85°	293.1	299.4	304.1	307.3	308.9	310.4	310.4	312.0	312.0	312.0	313.6
87.5°	267.9	275.8	278.9	282.1	283.6	286.8	286.8	286.8	288.4	288.4	288.4
90°	250.5	258.4	261.6	264.7	266.3	267.9	267.9	269.5	269.5	271.0	271.0
92.5°	230.1	237.9	244.2	244.2	245.8	249.0	247.4	247.4	249.0	250.5	250.5
95°	214.3	220.6	225.3	226.9	228.5	228.5	228.5	230.1	228.5	230.1	230.1
97.5°	195.4	201.7	206.4	209.6	211.2	211.2	211.2	212.7	211.2	212.7	212.7
100°	179.6	185.9	190.7	192.2	195.4	195.4	195.4	195.4	195.4	195.4	197.0
102.5°	167.0	173.3	176.5	178.1	179.6	181.2	181.2	181.2	181.2	182.8	182.8
105°	154.4	160.7	163.9	165.5	167.0	168.6	168.6	168.6	170.2	170.2	168.6
107.5°	143.4	148.1	151.3	154.4	156.0	156.0	157.6	157.6	157.6	157.6	157.6
110°	132.4	137.1	141.8	145.0	145.0	146.5	146.5	148.1	148.1	146.5	148.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	121.3	127.6	130.8	133.9	135.5	137.1	137.1	137.1	137.1	137.1	137.1
115°	111.9	118.2	121.3	124.5	126.1	127.6	127.6	127.6	127.6	127.6	127.6
117.5°	104.0	110.3	113.5	115.0	116.6	118.2	119.8	119.8	119.8	119.8	118.2
120°	96.1	100.9	104.0	107.2	108.7	110.3	110.3	110.3	110.3	110.3	110.3
122.5°	88.2	93.0	96.1	99.3	100.9	102.4	102.4	102.4	102.4	102.4	102.4
125°	80.4	85.1	88.2	91.4	93.0	94.5	94.5	94.5	94.5	94.5	94.5
127.5°	72.5	77.2	81.9	83.5	85.1	86.7	86.7	86.7	88.2	86.7	86.7
130°	64.6	69.3	74.1	75.6	77.2	78.8	80.4	80.4	80.4	80.4	78.8
132.5°	58.3	63.0	66.2	67.8	70.9	70.9	72.5	72.5	72.5	72.5	70.9
135°	53.6	56.7	59.9	61.5	64.6	64.6	64.6	66.2	66.2	64.6	63.0
137.5°	47.3	50.4	53.6	55.2	56.7	58.3	58.3	59.9	58.3	58.3	58.3
140°	44.1	45.7	48.8	50.4	52.0	52.0	52.0	53.6	53.6	52.0	52.0
142.5°	37.8	41.0	44.1	45.7	47.3	47.3	47.3	47.3	47.3	47.3	47.3
145°	31.5	36.2	37.8	41.0	41.0	42.5	42.5	42.5	42.5	42.5	41.0
147.5°	26.8	29.9	34.7	36.2	36.2	37.8	37.8	37.8	37.8	37.8	36.2
150°	20.5	23.6	28.4	31.5	31.5	33.1	33.1	33.1	33.1	31.5	31.5
152.5°	17.3	20.5	22.1	25.2	26.8	26.8	26.8	28.4	26.8	26.8	26.8
155°	15.8	17.3	18.9	20.5	22.1	23.6	23.6	23.6	23.6	22.1	22.1
157.5°	12.6	14.2	15.8	17.3	18.9	20.5	20.5	20.5	20.5	20.5	18.9
160°	9.5	11.0	12.6	12.6	14.2	15.8	17.3	15.8	15.8	15.8	15.8
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-LD5-91SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8
2.5°	2858.5	2856.9	2861.6	2853.7	2830.1	2836.4	2833.3	2847.4	2850.6	2853.7	2867.9
5°	2858.5	2856.9	2860.1	2853.7	2828.5	2833.3	2830.1	2844.3	2847.4	2849.0	2863.2
7.5°	2852.2	2850.6	2855.3	2847.4	2820.7	2827.0	2822.2	2836.4	2838.0	2839.6	2852.2
10°	2839.6	2838.0	2841.1	2834.8	2808.0	2814.4	2808.0	2822.2	2822.2	2825.4	2834.8
12.5°	2820.7	2817.5	2823.8	2815.9	2786.0	2793.9	2790.7	2800.2	2801.7	2803.3	2812.8
15°	2793.9	2790.7	2795.4	2790.7	2763.9	2765.5	2760.8	2775.0	2776.5	2773.4	2782.8
17.5°	2754.5	2751.3	2760.8	2757.6	2730.8	2737.1	2735.6	2738.7	2743.4	2735.6	2748.2
20°	2705.6	2708.8	2711.9	2713.5	2693.0	2693.0	2691.4	2697.7	2702.5	2696.2	2705.6
22.5°	2633.1	2641.0	2650.5	2653.6	2639.4	2637.9	2647.3	2644.2	2648.9	2645.7	2652.0
25°	2541.7	2557.5	2567.0	2576.4	2568.5	2571.7	2585.9	2589.0	2589.0	2587.4	2593.7
27.5°	2428.3	2448.8	2466.1	2486.6	2478.7	2485.0	2508.7	2511.8	2518.1	2511.8	2524.4
30°	2292.8	2311.7	2344.8	2374.7	2377.9	2387.3	2420.4	2423.6	2440.9	2434.6	2439.3
32.5°	2157.3	2166.7	2204.5	2234.5	2253.4	2277.0	2313.3	2319.6	2343.2	2347.9	2347.9
35°	1987.1	2013.9	2048.5	2091.1	2114.7	2139.9	2188.8	2198.2	2232.9	2243.9	2256.5
37.5°	1843.7	1868.9	1890.9	1935.1	1977.6	2006.0	2045.4	2069.0	2105.2	2125.7	2141.5
40°	1690.8	1711.3	1734.9	1779.1	1815.3	1857.9	1897.2	1925.6	1971.3	1994.9	2015.4
42.5°	1545.8	1561.6	1586.8	1618.3	1656.2	1703.4	1741.2	1774.3	1823.2	1856.3	1879.9
45°	1416.6	1426.1	1448.1	1471.8	1504.9	1553.7	1590.0	1632.5	1671.9	1706.6	1734.9
47.5°	1295.3	1307.9	1318.9	1334.7	1364.6	1394.6	1437.1	1478.1	1517.5	1555.3	1583.7
50°	1183.4	1183.4	1200.7	1211.8	1232.3	1259.1	1292.1	1320.5	1369.4	1396.1	1432.4
52.5°	1074.7	1081.0	1090.4	1096.7	1112.5	1129.8	1156.6	1180.3	1221.2	1246.4	1281.1
55°	978.6	984.9	989.6	992.7	1002.2	1022.7	1032.1	1051.0	1079.4	1099.9	1129.8
57.5°	887.2	890.3	895.0	896.6	898.2	910.8	918.7	923.4	951.8	972.3	997.5
60°	803.7	803.7	808.4	806.8	805.2	811.5	810.0	814.7	832.0	844.6	855.7
62.5°	724.9	724.9	726.4	723.3	721.7	721.7	715.4	720.1	724.9	726.4	734.3
65°	652.4	660.3	654.0	655.5	646.1	642.9	639.8	630.3	628.7	622.4	625.6
67.5°	587.8	594.1	587.8	587.8	579.9	573.6	565.7	549.9	545.2	532.6	529.5
70°	535.8	531.0	534.2	529.5	520.0	512.1	501.1	488.5	472.7	457.0	445.9
72.5°	485.3	485.3	482.2	477.5	472.7	457.0	444.4	430.2	411.3	390.8	375.0
75°	436.5	438.1	438.1	433.3	425.5	411.3	397.1	376.6	356.1	332.5	312.0
77.5°	401.8	401.8	401.8	393.9	386.1	373.5	356.1	334.1	312.0	283.6	260.0
80°	368.7	367.2	367.2	357.7	349.8	335.6	318.3	296.2	272.6	242.7	215.9
82.5°	341.9	340.4	337.2	329.3	318.3	304.1	286.8	263.2	237.9	211.2	178.1
85°	313.6	312.0	308.9	301.0	289.9	277.3	258.4	234.8	209.6	179.6	148.1
87.5°	288.4	286.8	282.1	277.3	264.7	250.5	231.6	209.6	182.8	154.4	122.9
90°	271.0	267.9	264.7	258.4	247.4	231.6	212.7	189.1	162.3	133.9	102.4
92.5°	250.5	249.0	244.2	237.9	228.5	212.7	193.8	171.8	145.0	118.2	88.2
95°	230.1	228.5	225.3	219.0	209.6	195.4	178.1	156.0	130.8	104.0	77.2
97.5°	211.2	211.2	206.4	201.7	190.7	179.6	162.3	141.8	118.2	94.5	69.3
100°	195.4	195.4	190.7	184.4	176.5	165.5	148.1	129.2	107.2	85.1	59.9
102.5°	181.2	179.6	176.5	170.2	162.3	151.3	135.5	118.2	97.7	75.6	53.6
105°	168.6	167.0	163.9	157.6	151.3	138.7	126.1	108.7	88.2	67.8	47.3
107.5°	156.0	154.4	152.9	146.5	138.7	127.6	115.0	97.7	80.4	61.5	42.5
110°	145.0	143.4	140.2	133.9	126.1	116.6	104.0	89.8	72.5	55.2	37.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	135.5	133.9	130.8	124.5	118.2	107.2	96.1	80.4	66.2	50.4	33.1
115°	126.1	124.5	121.3	115.0	107.2	97.7	86.7	74.1	58.3	44.1	29.9
117.5°	116.6	115.0	111.9	107.2	99.3	89.8	78.8	66.2	52.0	41.0	26.8
120°	108.7	105.6	102.4	97.7	89.8	81.9	70.9	59.9	47.3	36.2	23.6
122.5°	100.9	97.7	94.5	89.8	81.9	74.1	63.0	53.6	44.1	33.1	22.1
125°	91.4	89.8	86.7	81.9	74.1	66.2	58.3	48.8	39.4	29.9	18.9
127.5°	83.5	81.9	78.8	72.5	66.2	59.9	52.0	44.1	34.7	25.2	17.3
130°	77.2	74.1	70.9	66.2	61.5	55.2	47.3	39.4	31.5	22.1	15.8
132.5°	69.3	66.2	63.0	59.9	55.2	48.8	42.5	34.7	28.4	20.5	14.2
135°	63.0	59.9	56.7	53.6	48.8	44.1	37.8	31.5	25.2	18.9	12.6
137.5°	55.2	53.6	52.0	48.8	44.1	39.4	34.7	26.8	22.1	17.3	11.0
140°	50.4	48.8	47.3	42.5	39.4	34.7	29.9	23.6	18.9	14.2	9.5
142.5°	45.7	44.1	41.0	37.8	34.7	31.5	25.2	22.1	17.3	12.6	9.5
145°	39.4	37.8	36.2	33.1	29.9	25.2	22.1	18.9	15.8	11.0	7.9
147.5°	36.2	34.7	31.5	28.4	25.2	22.1	20.5	17.3	12.6	9.5	6.3
150°	29.9	28.4	26.8	23.6	22.1	20.5	17.3	14.2	11.0	7.9	6.3
152.5°	25.2	23.6	22.1	22.1	18.9	17.3	14.2	12.6	9.5	7.9	4.7
155°	22.1	22.1	20.5	18.9	15.8	14.2	12.6	9.5	7.9	6.3	4.7
157.5°	18.9	17.3	15.8	15.8	14.2	12.6	9.5	7.9	6.3	6.3	4.7
160°	15.8	14.2	14.2	12.6	11.0	9.5	7.9	7.9	6.3	4.7	4.7
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-LD5-91SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8
2.5°	2869.5	2852.2	2867.9	2888.4	2888.4	2885.3	2882.1	2888.4	2904.2	2897.9	2879.0
5°	2864.8	2847.4	2861.6	2882.1	2882.1	2877.4	2874.2	2879.0	2896.3	2888.4	2871.1
7.5°	2855.3	2839.6	2849.0	2867.9	2867.9	2863.2	2860.1	2866.4	2880.5	2872.7	2853.7
10°	2838.0	2820.7	2831.7	2849.0	2847.4	2844.3	2839.6	2847.4	2860.1	2849.0	2827.0
12.5°	2815.9	2798.6	2808.0	2823.8	2822.2	2815.9	2812.8	2817.5	2828.5	2822.2	2798.6
15°	2786.0	2768.7	2776.5	2792.3	2787.6	2782.8	2776.5	2778.1	2792.3	2781.3	2756.0
17.5°	2749.7	2730.8	2737.1	2751.3	2746.6	2741.9	2734.0	2735.6	2751.3	2735.6	2708.8
20°	2705.6	2685.1	2689.9	2707.2	2699.3	2691.4	2683.6	2683.6	2699.3	2682.0	2652.0
22.5°	2658.4	2637.9	2641.0	2653.6	2647.3	2633.1	2625.3	2630.0	2637.9	2615.8	2584.3
25°	2600.0	2573.3	2578.0	2590.6	2585.9	2567.0	2559.1	2562.2	2559.1	2541.7	2508.7
27.5°	2532.3	2503.9	2507.1	2515.0	2508.7	2491.3	2481.9	2483.4	2477.1	2455.1	2417.3
30°	2447.2	2433.0	2431.4	2436.2	2426.7	2409.4	2398.3	2395.2	2393.6	2362.1	2316.4
32.5°	2360.5	2347.9	2340.0	2346.3	2335.3	2318.0	2299.1	2299.1	2283.3	2253.4	2214.0
35°	2272.3	2251.8	2243.9	2248.6	2236.0	2214.0	2198.2	2190.3	2166.7	2128.9	2086.3
37.5°	2158.8	2144.6	2135.2	2139.9	2125.7	2110.0	2080.0	2072.2	2046.9	1994.9	1941.4
40°	2035.9	2024.9	2015.4	2020.2	2004.4	1980.8	1954.0	1941.4	1913.0	1854.7	1812.2
42.5°	1903.5	1898.8	1887.8	1905.1	1873.6	1850.0	1823.2	1802.7	1774.3	1711.3	1662.5
45°	1763.3	1774.3	1749.1	1753.8	1733.4	1712.9	1684.5	1654.6	1626.2	1566.3	1511.2
47.5°	1615.2	1623.1	1605.7	1608.9	1586.8	1567.9	1542.7	1504.9	1473.4	1421.4	1372.5
50°	1462.3	1459.2	1459.2	1456.0	1438.7	1415.1	1389.8	1355.2	1323.7	1276.4	1235.4
52.5°	1300.0	1306.3	1309.5	1317.4	1295.3	1281.1	1241.7	1211.8	1188.1	1139.3	1104.6
55°	1144.0	1166.1	1159.8	1162.9	1137.7	1126.7	1095.2	1071.5	1036.9	1008.5	986.4
57.5°	1002.2	1006.9	1010.1	1014.8	1003.8	981.7	956.5	937.6	910.8	887.2	871.4
60°	865.1	865.1	866.7	874.6	863.5	844.6	825.7	811.5	792.6	778.4	769.0
62.5°	735.9	746.9	748.5	742.2	728.0	718.6	706.0	698.1	685.5	680.7	677.6
65°	616.1	616.1	616.1	619.3	611.4	605.1	597.2	595.6	600.4	594.1	597.2
67.5°	515.3	510.6	507.4	509.0	505.8	502.7	501.1	505.8	515.3	515.3	523.2
70°	428.6	419.2	412.9	412.9	412.9	414.4	419.2	428.6	444.4	450.7	461.7
72.5°	357.7	337.2	327.8	327.8	329.3	335.6	349.8	367.2	381.3	393.9	408.1
75°	289.9	269.5	255.3	253.7	256.9	266.3	286.8	302.6	326.2	343.5	360.9
77.5°	234.8	209.6	192.2	190.7	195.4	209.6	234.8	255.3	282.1	301.0	319.9
80°	187.5	159.2	145.0	135.5	143.4	160.7	189.1	214.3	239.5	264.7	288.4
82.5°	149.7	122.9	100.9	91.4	100.9	124.5	151.3	181.2	206.4	233.2	256.9
85°	118.2	89.8	64.6	55.2	66.2	91.4	121.3	151.3	179.6	206.4	230.1
87.5°	93.0	64.6	39.4	26.8	41.0	67.8	96.1	126.1	156.0	182.8	206.4
90°	72.5	45.7	22.1	3.2	23.6	48.8	77.2	105.6	135.5	162.3	185.9
92.5°	61.5	34.7	12.6	0.0	14.2	36.2	63.0	91.4	118.2	145.0	168.6
95°	52.0	28.4	9.5	0.0	9.5	28.4	52.0	77.2	104.0	130.8	154.4
97.5°	44.1	22.1	6.3	0.0	6.3	22.1	42.5	67.8	91.4	116.6	138.7
100°	37.8	18.9	4.7	0.0	4.7	17.3	36.2	58.3	81.9	105.6	126.1
102.5°	33.1	15.8	3.2	0.0	3.2	14.2	29.9	50.4	70.9	93.0	113.5
105°	28.4	12.6	3.2	0.0	1.6	11.0	25.2	44.1	63.0	83.5	102.4
107.5°	25.2	11.0	3.2	0.0	1.6	9.5	22.1	37.8	56.7	74.1	91.4
110°	22.1	9.5	3.2	0.0	1.6	6.3	18.9	33.1	48.8	66.2	83.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	18.9	7.9	1.6	0.0	0.0	4.7	15.8	28.4	42.5	59.9	74.1
115°	17.3	7.9	1.6	0.0	0.0	3.2	12.6	25.2	37.8	53.6	66.2
117.5°	15.8	6.3	1.6	0.0	1.6	3.2	11.0	22.1	33.1	45.7	59.9
120°	14.2	6.3	1.6	0.0	1.6	1.6	7.9	18.9	28.4	41.0	52.0
122.5°	12.6	6.3	1.6	0.0	1.6	1.6	6.3	15.8	25.2	36.2	45.7
125°	11.0	4.7	3.2	1.6	1.6	1.6	4.7	12.6	22.1	29.9	41.0
127.5°	11.0	4.7	3.2	1.6	1.6	1.6	3.2	11.0	17.3	26.8	36.2
130°	9.5	4.7	3.2	1.6	1.6	1.6	1.6	7.9	15.8	22.1	29.9
132.5°	7.9	4.7	3.2	1.6	1.6	1.6	1.6	4.7	11.0	18.9	25.2
135°	7.9	4.7	3.2	1.6	1.6	1.6	1.6	3.2	7.9	14.2	20.5
137.5°	6.3	3.2	3.2	1.6	1.6	1.6	1.6	1.6	6.3	11.0	15.8
140°	6.3	3.2	3.2	1.6	1.6	1.6	1.6	1.6	4.7	7.9	12.6
142.5°	4.7	3.2	3.2	1.6	1.6	1.6	1.6	1.6	3.2	6.3	9.5
145°	4.7	3.2	3.2	1.6	1.6	1.6	1.6	1.6	1.6	3.2	6.3
147.5°	4.7	4.7	3.2	1.6	1.6	1.6	1.6	1.6	1.6	3.2	4.7
150°	4.7	3.2	3.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2
152.5°	4.7	3.2	3.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2
155°	4.7	3.2	3.2	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2
157.5°	4.7	3.2	3.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2
160°	4.7	3.2	3.2	1.6	3.2	1.6	3.2	3.2	3.2	3.2	3.2
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-LD5-91SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8
2.5°	2872.7	2842.7	2858.5	2853.7	2860.1	2872.7	2871.1	2867.9	2867.9	2863.2	2856.9
5°	2863.2	2834.8	2849.0	2841.1	2849.0	2860.1	2858.5	2853.7	2856.9	2849.0	2841.1
7.5°	2844.3	2819.1	2831.7	2825.4	2831.7	2842.7	2838.0	2836.4	2839.6	2827.0	2822.2
10°	2822.2	2793.9	2808.0	2800.2	2808.0	2815.9	2812.8	2806.5	2812.8	2800.2	2795.4
12.5°	2787.6	2763.9	2773.4	2770.2	2775.0	2782.8	2776.5	2771.8	2775.0	2763.9	2754.5
15°	2749.7	2726.1	2734.0	2729.3	2732.4	2741.9	2730.8	2729.3	2726.1	2715.1	2711.9
17.5°	2700.9	2678.8	2686.7	2678.8	2683.6	2680.4	2678.8	2671.0	2671.0	2658.4	2648.9
20°	2641.0	2622.1	2617.4	2611.1	2617.4	2611.1	2601.6	2595.3	2593.7	2581.1	2573.3
22.5°	2571.7	2549.6	2552.8	2535.4	2537.0	2527.6	2511.8	2505.5	2499.2	2485.0	2474.0
25°	2488.2	2466.1	2450.3	2439.3	2425.1	2423.6	2403.1	2387.3	2385.7	2368.4	2366.8
27.5°	2393.6	2368.4	2355.8	2329.0	2311.7	2297.5	2280.2	2264.4	2256.5	2237.6	2225.0
30°	2284.9	2256.5	2225.0	2206.1	2179.3	2168.3	2138.3	2119.4	2113.1	2092.6	2083.2
32.5°	2162.0	2132.0	2106.8	2070.6	2040.6	2024.9	1994.9	1976.0	1968.2	1946.1	1933.5
35°	2028.0	1994.9	1965.0	1930.3	1906.7	1879.9	1843.7	1824.8	1807.4	1799.5	1790.1
37.5°	1887.8	1851.5	1816.9	1782.2	1761.7	1730.2	1698.7	1686.1	1665.6	1657.7	1648.3
40°	1742.8	1706.6	1673.5	1640.4	1616.8	1588.4	1560.0	1555.3	1533.2	1525.4	1519.1
42.5°	1599.4	1561.6	1523.8	1500.1	1482.8	1454.5	1435.5	1430.8	1411.9	1407.2	1407.2
45°	1470.2	1422.9	1391.4	1370.9	1356.8	1333.1	1317.4	1314.2	1298.4	1295.3	1295.3
47.5°	1331.5	1287.4	1263.8	1251.2	1238.6	1221.2	1211.8	1211.8	1196.0	1192.9	1191.3
50°	1202.3	1161.4	1144.0	1131.4	1129.8	1117.2	1109.4	1106.2	1106.2	1095.2	1096.7
52.5°	1079.4	1058.9	1044.7	1036.9	1027.4	1019.5	1013.2	1013.2	1008.5	1000.6	1003.8
55°	966.0	942.3	943.9	937.6	932.9	928.1	929.7	920.3	918.7	912.4	917.1
57.5°	852.5	852.5	849.3	844.6	836.7	839.9	839.9	839.9	832.0	827.3	832.0
60°	756.4	761.1	753.2	758.0	754.8	756.4	753.2	753.2	748.5	746.9	748.5
62.5°	671.3	679.2	676.0	682.3	679.2	680.7	683.9	677.6	674.4	671.3	674.4
65°	595.6	605.1	603.5	608.3	609.8	611.4	613.0	609.8	606.7	603.5	602.0
67.5°	529.5	538.9	545.2	546.8	548.4	553.1	551.5	548.4	545.2	540.5	538.9
70°	469.6	482.2	490.1	493.2	499.5	496.4	496.4	494.8	491.6	486.9	485.3
72.5°	419.2	433.3	441.2	444.4	450.7	450.7	449.1	447.5	444.4	439.6	438.1
75°	375.0	387.6	398.7	405.0	409.7	409.7	408.1	406.6	403.4	400.2	398.7
77.5°	340.4	351.4	360.9	368.7	371.9	373.5	371.9	368.7	368.7	367.2	365.6
80°	305.7	318.3	327.8	335.6	340.4	340.4	338.8	340.4	337.2	335.6	334.1
82.5°	275.8	289.9	301.0	308.9	312.0	313.6	312.0	313.6	310.4	310.4	310.4
85°	249.0	263.2	275.8	282.1	286.8	288.4	288.4	288.4	286.8	286.8	286.8
87.5°	226.9	241.1	253.7	260.0	264.7	266.3	266.3	267.9	264.7	264.7	264.7
90°	206.4	220.6	233.2	239.5	244.2	247.4	247.4	249.0	247.4	245.8	245.8
92.5°	187.5	203.3	215.9	222.2	226.9	231.6	231.6	233.2	230.1	230.1	230.1
95°	171.8	187.5	198.5	206.4	211.2	214.3	215.9	215.9	214.3	214.3	214.3
97.5°	157.6	171.8	182.8	190.7	195.4	197.0	198.5	200.1	198.5	198.5	198.5
100°	143.4	157.6	168.6	174.9	181.2	182.8	184.4	185.9	185.9	184.4	184.4
102.5°	130.8	145.0	154.4	162.3	167.0	170.2	171.8	171.8	171.8	171.8	171.8
105°	118.2	132.4	141.8	149.7	154.4	157.6	159.2	160.7	160.7	159.2	159.2
107.5°	107.2	119.8	130.8	137.1	143.4	146.5	148.1	148.1	149.7	148.1	148.1
110°	96.1	110.3	119.8	126.1	132.4	135.5	137.1	138.7	138.7	138.7	138.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	88.2	99.3	108.7	115.0	121.3	124.5	126.1	127.6	129.2	127.6	127.6
115°	78.8	89.8	99.3	105.6	110.3	113.5	116.6	118.2	118.2	119.8	118.2
117.5°	70.9	80.4	89.8	96.1	100.9	105.6	107.2	108.7	110.3	108.7	108.7
120°	63.0	72.5	80.4	86.7	91.4	96.1	97.7	99.3	100.9	99.3	99.3
122.5°	56.7	64.6	72.5	78.8	83.5	86.7	89.8	89.8	91.4	91.4	91.4
125°	50.4	58.3	64.6	70.9	75.6	78.8	80.4	81.9	81.9	83.5	83.5
127.5°	44.1	50.4	58.3	63.0	67.8	70.9	72.5	74.1	74.1	75.6	75.6
130°	37.8	44.1	50.4	55.2	59.9	63.0	64.6	66.2	67.8	67.8	67.8
132.5°	33.1	39.4	44.1	48.8	52.0	55.2	58.3	59.9	59.9	59.9	59.9
135°	26.8	33.1	37.8	42.5	45.7	48.8	50.4	53.6	53.6	53.6	53.6
137.5°	22.1	28.4	33.1	36.2	39.4	42.5	44.1	45.7	47.3	47.3	47.3
140°	17.3	22.1	26.8	31.5	34.7	36.2	39.4	39.4	41.0	41.0	41.0
142.5°	12.6	17.3	20.5	25.2	28.4	31.5	33.1	34.7	34.7	34.7	34.7
145°	9.5	12.6	15.8	18.9	23.6	25.2	26.8	28.4	29.9	29.9	29.9
147.5°	6.3	9.5	11.0	14.2	17.3	20.5	22.1	23.6	25.2	25.2	25.2
150°	4.7	6.3	9.5	11.0	12.6	15.8	18.9	18.9	20.5	20.5	18.9
152.5°	3.2	4.7	6.3	7.9	9.5	11.0	14.2	14.2	15.8	15.8	15.8
155°	3.2	3.2	3.2	4.7	6.3	7.9	9.5	11.0	11.0	11.0	11.0
157.5°	3.2	3.2	3.2	3.2	3.2	4.7	6.3	7.9	7.9	7.9	7.9
160°	3.2	3.2	1.6	1.6	3.2	3.2	3.2	3.2	4.7	4.7	4.7
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-LD5-91SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8
2.5°	2861.6	2864.8	2864.8	2861.6	2860.1	2866.4	2858.5	2828.5	2838.0	2841.1	2850.6
5°	2847.4	2850.6	2850.6	2850.6	2847.4	2853.7	2845.9	2815.9	2827.0	2831.7	2838.0
7.5°	2827.0	2828.5	2831.7	2830.1	2827.0	2836.4	2828.5	2798.6	2806.5	2814.4	2822.2
10°	2800.2	2800.2	2801.7	2804.9	2801.7	2809.6	2801.7	2775.0	2782.8	2787.6	2797.0
12.5°	2763.9	2767.1	2768.7	2767.1	2765.5	2771.8	2768.7	2743.4	2746.6	2756.0	2765.5
15°	2715.1	2715.1	2723.0	2719.8	2719.8	2726.1	2729.3	2700.9	2705.6	2719.8	2729.3
17.5°	2655.2	2656.8	2663.1	2666.2	2664.7	2675.7	2677.3	2655.2	2653.6	2671.0	2680.4
20°	2578.0	2581.1	2589.0	2595.3	2595.3	2607.9	2612.7	2598.5	2600.0	2619.0	2622.1
22.5°	2483.4	2483.4	2497.6	2507.1	2515.0	2522.8	2537.0	2524.4	2524.4	2549.6	2563.8
25°	2366.8	2377.9	2382.6	2401.5	2412.5	2434.6	2447.2	2448.8	2450.3	2474.0	2483.4
27.5°	2237.6	2240.8	2254.9	2277.0	2289.6	2310.1	2333.7	2338.5	2346.3	2377.9	2392.0
30°	2091.1	2100.5	2106.8	2138.3	2155.7	2182.5	2212.4	2223.4	2229.7	2272.3	2289.6
32.5°	1941.4	1944.5	1971.3	1988.6	2009.1	2037.5	2072.2	2092.6	2105.2	2149.4	2174.6
35°	1791.7	1798.0	1820.0	1842.1	1862.6	1890.9	1927.2	1955.5	1977.6	2017.0	2050.1
37.5°	1654.6	1670.3	1675.1	1697.1	1712.9	1741.2	1766.5	1807.4	1829.5	1870.5	1913.0
40°	1531.7	1536.4	1539.5	1561.6	1572.6	1599.4	1635.7	1662.5	1692.4	1722.3	1772.8
42.5°	1410.3	1413.5	1418.2	1430.8	1443.4	1462.3	1489.1	1515.9	1547.4	1591.5	1624.6
45°	1298.4	1301.6	1304.8	1312.6	1323.7	1341.0	1358.3	1377.2	1408.8	1446.6	1481.2
47.5°	1194.4	1200.7	1200.7	1202.3	1210.2	1224.4	1237.0	1260.6	1278.0	1298.4	1337.8
50°	1095.2	1099.9	1101.5	1101.5	1106.2	1115.7	1118.8	1134.6	1150.3	1169.2	1197.6
52.5°	1002.2	1002.2	1000.6	1006.9	1006.9	1013.2	1014.8	1024.3	1035.3	1055.8	1068.4
55°	914.0	914.0	918.7	915.5	915.5	918.7	917.1	918.7	928.1	940.7	951.8
57.5°	828.9	827.3	832.0	828.9	827.3	830.4	833.6	827.3	828.9	841.5	841.5
60°	743.8	745.3	750.1	746.9	746.9	746.9	743.8	740.6	737.5	745.3	748.5
62.5°	676.0	671.3	676.0	671.3	674.4	672.9	669.7	663.4	665.0	661.8	658.7
65°	605.1	605.1	606.7	602.0	605.1	605.1	600.4	598.8	589.3	586.2	578.3
67.5°	543.6	543.6	545.2	542.1	542.1	543.6	538.9	534.2	524.7	520.0	509.0
70°	490.1	490.1	490.1	488.5	488.5	488.5	485.3	479.0	469.6	461.7	447.5
72.5°	441.2	442.8	441.2	441.2	445.9	441.2	436.5	430.2	422.3	406.6	393.9
75°	401.8	403.4	401.8	401.8	401.8	400.2	398.7	389.2	379.8	367.2	348.2
77.5°	367.2	367.2	368.7	367.2	367.2	365.6	360.9	353.0	341.9	330.9	308.9
80°	334.1	335.6	337.2	338.8	335.6	334.1	329.3	323.0	308.9	296.2	274.2
82.5°	310.4	308.9	310.4	312.0	308.9	307.3	302.6	294.7	283.6	266.3	244.2
85°	286.8	285.2	285.2	286.8	285.2	282.1	277.3	269.5	258.4	241.1	219.0
87.5°	263.2	264.7	266.3	264.7	263.2	260.0	255.3	247.4	234.8	220.6	197.0
90°	245.8	245.8	245.8	245.8	244.2	241.1	236.4	226.9	215.9	198.5	178.1
92.5°	230.1	230.1	230.1	230.1	228.5	223.8	219.0	211.2	198.5	181.2	162.3
95°	214.3	215.9	214.3	214.3	211.2	209.6	201.7	193.8	182.8	165.5	145.0
97.5°	197.0	198.5	197.0	197.0	195.4	192.2	187.5	178.1	167.0	151.3	132.4
100°	184.4	184.4	182.8	182.8	181.2	178.1	171.8	163.9	152.9	137.1	118.2
102.5°	170.2	171.8	170.2	170.2	167.0	163.9	159.2	151.3	140.2	124.5	107.2
105°	159.2	159.2	157.6	157.6	154.4	151.3	146.5	137.1	127.6	113.5	96.1
107.5°	148.1	148.1	146.5	146.5	143.4	140.2	133.9	126.1	116.6	102.4	86.7
110°	137.1	137.1	137.1	135.5	132.4	127.6	122.9	115.0	105.6	93.0	77.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	129.2	127.6	126.1	124.5	121.3	118.2	111.9	104.0	94.5	83.5	69.3
115°	118.2	118.2	116.6	115.0	111.9	107.2	102.4	96.1	86.7	74.1	61.5
117.5°	108.7	108.7	107.2	105.6	102.4	97.7	93.0	86.7	77.2	66.2	55.2
120°	99.3	99.3	97.7	96.1	93.0	88.2	85.1	77.2	69.3	58.3	48.8
122.5°	91.4	89.8	89.8	86.7	85.1	80.4	75.6	69.3	61.5	52.0	42.5
125°	81.9	81.9	80.4	78.8	77.2	72.5	67.8	61.5	53.6	45.7	37.8
127.5°	74.1	74.1	72.5	70.9	69.3	64.6	59.9	55.2	47.3	39.4	31.5
130°	66.2	66.2	64.6	63.0	61.5	56.7	53.6	47.3	41.0	34.7	26.8
132.5°	59.9	59.9	58.3	56.7	53.6	50.4	47.3	41.0	36.2	29.9	23.6
135°	53.6	52.0	52.0	50.4	47.3	44.1	41.0	36.2	29.9	25.2	18.9
137.5°	47.3	45.7	44.1	42.5	41.0	37.8	34.7	31.5	26.8	20.5	15.8
140°	41.0	39.4	39.4	37.8	34.7	33.1	29.9	25.2	22.1	17.3	12.6
142.5°	34.7	34.7	33.1	31.5	29.9	28.4	25.2	22.1	17.3	14.2	9.5
145°	29.9	28.4	28.4	26.8	25.2	22.1	20.5	17.3	14.2	11.0	7.9
147.5°	23.6	23.6	23.6	22.1	20.5	18.9	17.3	14.2	11.0	7.9	4.7
150°	18.9	18.9	18.9	17.3	15.8	14.2	12.6	11.0	7.9	4.7	3.2
152.5°	15.8	15.8	14.2	14.2	12.6	11.0	9.5	7.9	4.7	3.2	3.2
155°	11.0	11.0	11.0	9.5	9.5	7.9	6.3	4.7	3.2	3.2	3.2
157.5°	7.9	7.9	7.9	6.3	6.3	4.7	4.7	3.2	3.2	3.2	3.2
160°	4.7	4.7	4.7	4.7	3.2	3.2	3.2	3.2	3.2	3.2	3.2
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-LD5-91SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8	2864.8
2.5°	2845.9	2844.3	2856.9	2856.9	2842.7	2864.8	2888.4
5°	2836.4	2834.8	2847.4	2847.4	2834.8	2856.9	2882.1
7.5°	2817.5	2819.1	2831.7	2834.8	2819.1	2839.6	2866.4
10°	2797.0	2795.4	2809.6	2812.8	2800.2	2819.1	2844.3
12.5°	2763.9	2763.9	2778.1	2782.8	2770.2	2792.3	2815.9
15°	2729.3	2729.3	2738.7	2746.6	2735.6	2756.0	2779.7
17.5°	2685.1	2683.6	2693.0	2702.5	2691.4	2713.5	2738.7
20°	2628.4	2628.4	2639.4	2650.5	2642.6	2663.1	2691.4
22.5°	2568.5	2562.2	2581.1	2589.0	2584.3	2604.8	2633.1
25°	2492.9	2491.3	2510.2	2521.3	2515.0	2537.0	2562.2
27.5°	2411.0	2409.4	2428.3	2442.5	2439.3	2459.8	2488.2
30°	2311.7	2319.6	2336.9	2360.5	2352.6	2374.7	2404.6
32.5°	2207.7	2215.6	2236.0	2261.3	2262.8	2280.2	2310.1
35°	2083.2	2103.7	2117.9	2150.9	2157.3	2174.6	2206.1
37.5°	1952.4	1976.0	2006.0	2031.2	2043.8	2058.0	2094.2
40°	1805.9	1840.5	1873.6	1903.5	1919.3	1933.5	1968.2
42.5°	1673.5	1700.3	1731.8	1761.7	1790.1	1802.7	1838.9
45°	1523.8	1555.3	1583.7	1619.9	1648.3	1662.5	1698.7
47.5°	1377.2	1408.8	1446.6	1471.8	1501.7	1515.9	1550.6
50°	1237.0	1265.4	1296.9	1326.8	1352.0	1364.6	1394.6
52.5°	1098.3	1128.3	1158.2	1177.1	1203.9	1213.4	1238.6
55°	975.4	995.9	1022.7	1033.7	1060.5	1066.8	1084.1
57.5°	857.2	871.4	880.9	899.8	918.7	932.9	953.4
60°	750.1	756.4	762.7	773.7	789.5	794.2	802.1
62.5°	654.0	652.4	665.0	668.1	669.7	685.5	677.6
65°	568.9	570.4	559.4	554.7	561.0	565.7	562.6
67.5°	497.9	488.5	479.0	468.0	458.6	463.3	458.6
70°	428.6	420.7	405.0	389.2	382.9	373.5	368.7
72.5°	373.5	354.6	338.8	318.3	307.3	296.2	288.4
75°	330.9	304.1	282.1	260.0	244.2	228.5	225.3
77.5°	286.8	261.6	236.4	212.7	189.1	171.8	165.5
80°	252.1	228.5	198.5	170.2	145.0	122.9	115.0
82.5°	220.6	195.4	165.5	135.5	107.2	83.5	74.1
85°	193.8	167.0	137.1	107.2	78.8	53.6	41.0
87.5°	173.3	143.4	113.5	85.1	55.2	29.9	15.8
90°	154.4	126.1	97.7	67.8	39.4	15.8	0.0
92.5°	137.1	110.3	81.9	55.2	29.9	9.5	1.6
95°	121.3	97.7	69.3	44.1	22.1	6.3	1.6
97.5°	108.7	85.1	59.9	36.2	17.3	4.7	1.6
100°	97.7	74.1	52.0	29.9	14.2	3.2	1.6
102.5°	86.7	66.2	44.1	25.2	11.0	1.6	1.6
105°	77.2	58.3	37.8	22.1	9.5	1.6	1.6
107.5°	69.3	52.0	33.1	18.9	6.3	1.6	1.6
110°	61.5	44.1	28.4	15.8	4.7	1.6	1.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	55.2	39.4	25.2	12.6	3.2	1.6	1.6
115°	48.8	34.7	22.1	11.0	3.2	1.6	1.6
117.5°	42.5	29.9	18.9	7.9	1.6	1.6	1.6
120°	37.8	26.8	15.8	6.3	1.6	1.6	1.6
122.5°	33.1	22.1	12.6	4.7	1.6	1.6	1.6
125°	28.4	18.9	11.0	3.2	1.6	1.6	1.6
127.5°	23.6	15.8	7.9	3.2	1.6	1.6	1.6
130°	20.5	12.6	6.3	1.6	1.6	1.6	1.6
132.5°	17.3	9.5	4.7	1.6	1.6	1.6	1.6
135°	14.2	7.9	3.2	1.6	1.6	1.6	1.6
137.5°	11.0	6.3	3.2	1.6	1.6	1.6	1.6
140°	7.9	4.7	1.6	1.6	1.6	1.6	1.6
142.5°	6.3	3.2	1.6	1.6	1.6	1.6	1.6
145°	4.7	3.2	1.6	1.6	1.6	1.6	1.6
147.5°	3.2	3.2	3.2	3.2	1.6	1.6	1.6
150°	3.2	3.2	1.6	1.6	3.2	1.6	1.6
152.5°	3.2	1.6	1.6	1.6	3.2	1.6	1.6
155°	3.2	3.2	3.2	3.2	3.2	3.2	1.6
157.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2
160°	3.2	3.2	3.2	3.2	3.2	3.2	3.2
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)