

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-LD5-83SL-LC-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 (P33518)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-83SL-LC-UNV-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

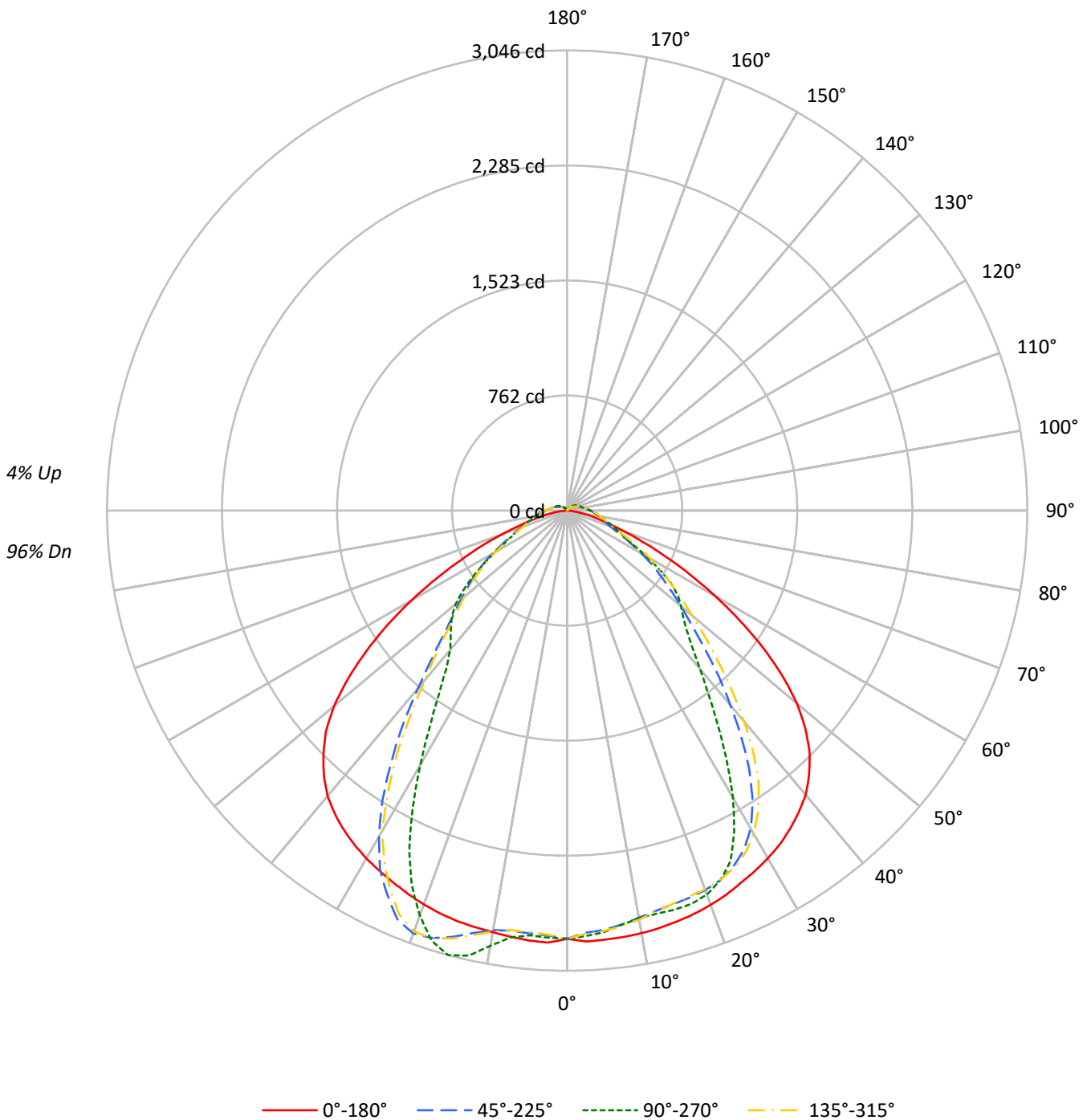
Lumens per Lamp: N/A
Luminaire Lumens: 6756.0 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 61
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#
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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°	11451	11451	11451	11451
5°	11550	10997	11574	11083
10°	11619	10539	11596	11255
15°	11726	10398	11720	11578
20°	11873	10234	11860	10787
25°	12038	9708	12031	9381
30°	12285	8414	12292	7454
35°	12549	6804	12585	5758
40°	12788	5478	12841	4827
45°	12774	4640	12840	4519
50°	12258	4272	12430	4177
55°	10914	3840	11186	3491
60°	8892	2939	9364	2695
65°	6648	2248	7164	2132
70°	4560	1941	5140	1856
75°	3023	1751	3520	1656
80°	2003	1633	2347	1502
85°	1094	1629	1440	1488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.2	4.0
10°-20°	800.9	11.9
20°-30°	1217.7	18.0
30°-40°	1306.3	19.3
40°-50°	1133.7	16.8
50°-60°	840.2	12.4
60°-70°	481.4	7.1
70°-80°	266.6	3.9
80°-90°	162.3	2.4
90°-100°	105.6	1.6
100°-110°	70.7	1.0
110°-120°	47.7	0.7
120°-130°	29.3	0.4
130°-140°	15.4	0.2
140°-150°	7.0	0.1
150°-160°	2.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2287.8	33.9
0°-40°	3594.1	53.2
0°-60°	5567.9	82.4
0°-90°	6478.2	95.9
90°-120°	224.0	3.3
90°-150°	275.7	4.1
90°-180°	278.0	4.1
0°-180°	6756.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2834	2834	2834	2834	2834	
5°	2852	2800	2857	2822	2852	272
15°	2815	2736	2814	3046	2815	796
25°	2720	2559	2718	2472	2720	1257
35°	2572	1742	2579	1474	2572	1610
45°	2270	1117	2282	1088	2270	1738
55°	1584	837	1623	761	1584	1405
65°	719	424	774	403	719	725
75°	205	269	239	255	205	234
85°	28	186	37	170	28	37
90°	0	155	3	144	0	1
95°	2	127	0	122	2	1
105°	2	95	2	91	2	2
115°	2	78	2	70	2	1
125°	2	59	2	48	2	1
135°	2	37	2	31	2	1
145°	2	22	3	18	2	1
155°	3	10	3	9	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°	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0
2.5°	2854.5	2847.1	2844.2	2838.4	2842.8	2860.3	2848.6	2829.6	2831.0	2797.4	2814.9
5°	2851.5	2842.8	2838.4	2832.5	2835.4	2851.5	2839.8	2820.8	2819.3	2785.7	2801.8
7.5°	2847.1	2838.4	2831.0	2826.7	2828.1	2841.3	2826.7	2804.7	2800.3	2763.7	2778.3
10°	2839.8	2834.0	2823.7	2816.4	2814.9	2829.6	2806.2	2784.2	2774.0	2735.9	2750.5
12.5°	2829.6	2820.8	2810.5	2797.4	2795.9	2804.7	2785.7	2754.9	2744.7	2713.9	2730.0
15°	2814.9	2804.7	2793.0	2778.3	2771.0	2776.9	2753.5	2725.6	2724.2	2697.8	2719.8
17.5°	2798.8	2784.2	2771.0	2750.5	2740.3	2744.7	2725.6	2700.8	2703.7	2687.6	2712.5
20°	2776.9	2760.8	2740.3	2719.8	2705.2	2712.5	2699.3	2680.3	2684.7	2672.9	2694.9
22.5°	2752.0	2730.0	2705.2	2681.7	2670.0	2680.3	2670.0	2653.9	2655.4	2648.1	2661.2
25°	2719.8	2694.9	2665.6	2636.4	2630.5	2637.8	2632.0	2618.8	2612.9	2601.2	2607.1
27.5°	2690.5	2662.7	2626.1	2595.4	2585.1	2599.8	2586.6	2564.6	2548.5	2532.4	2520.7
30°	2656.8	2623.2	2582.2	2547.1	2538.3	2544.1	2525.1	2491.4	2449.0	2428.5	2396.3
32.5°	2620.3	2576.3	2525.1	2485.6	2479.7	2475.3	2440.2	2391.9	2326.0	2285.0	2235.3
35°	2571.9	2523.6	2462.2	2413.9	2405.1	2380.2	2323.1	2258.7	2173.8	2103.5	2018.6
37.5°	2517.8	2460.7	2396.3	2331.9	2307.0	2257.2	2176.7	2109.4	1980.6	1895.7	1793.2
40°	2456.3	2387.5	2308.5	2230.9	2189.9	2109.4	2017.2	1917.6	1793.2	1679.0	1592.6
42.5°	2371.4	2298.2	2204.5	2118.2	2047.9	1941.0	1832.7	1692.2	1578.0	1481.4	1393.6
45°	2270.4	2182.6	2074.2	1970.3	1881.0	1753.7	1626.3	1485.8	1390.6	1277.9	1217.9
47.5°	2140.1	2045.0	1929.3	1813.7	1696.6	1556.0	1422.8	1288.2	1193.0	1112.5	1068.6
50°	1986.4	1898.6	1771.2	1633.6	1504.8	1358.4	1225.2	1124.2	1032.0	982.2	948.6
52.5°	1796.1	1714.1	1583.9	1434.6	1310.1	1166.7	1045.2	963.2	897.3	860.7	849.0
55°	1583.9	1512.1	1383.3	1244.3	1116.9	985.2	892.9	821.2	778.8	756.8	758.3
57.5°	1357.0	1301.3	1179.8	1055.4	935.4	835.8	752.4	695.3	663.1	661.7	666.0
60°	1130.1	1089.1	983.7	876.8	771.4	690.9	629.4	589.9	569.4	570.9	569.4
62.5°	913.4	875.4	799.2	711.4	628.0	573.8	518.2	502.1	484.5	483.1	483.1
65°	718.7	689.5	628.0	565.0	502.1	467.0	439.1	420.1	406.9	404.0	405.5
67.5°	540.2	528.4	486.0	443.5	404.0	382.1	358.6	354.2	344.0	344.0	346.9
70°	402.6	393.8	370.3	345.5	329.4	314.7	303.0	303.0	301.5	300.1	307.4
72.5°	291.3	292.8	285.4	266.4	265.0	262.0	259.1	263.5	265.0	269.3	278.1
75°	204.9	209.3	209.3	206.4	212.3	219.6	224.0	231.3	240.1	245.9	256.2
77.5°	144.9	144.9	152.2	161.0	172.7	185.9	197.6	207.9	219.6	226.9	235.7
80°	93.7	98.1	109.8	125.9	142.0	159.6	175.7	188.8	200.5	212.3	218.1
82.5°	55.6	62.9	77.6	98.1	118.6	140.5	156.6	172.7	185.9	197.6	202.0
85°	27.8	38.1	55.6	77.6	99.5	123.0	143.5	158.1	172.7	183.0	188.8
87.5°	8.8	20.5	39.5	60.0	83.4	106.9	128.8	144.9	158.1	166.9	172.7
90°	0.0	10.2	27.8	49.8	71.7	95.1	115.6	133.2	146.4	153.7	158.1
92.5°	0.0	5.9	22.0	41.0	61.5	84.9	105.4	121.5	133.2	140.5	143.5
95°	1.5	4.4	16.1	33.7	54.2	76.1	95.1	109.8	121.5	128.8	130.3
97.5°	1.5	2.9	13.2	27.8	46.8	67.3	86.4	101.0	109.8	117.1	118.6
100°	1.5	2.9	10.2	24.9	41.0	60.0	77.6	90.8	101.0	106.9	108.3
102.5°	1.5	1.5	8.8	20.5	36.6	52.7	68.8	82.0	90.8	96.6	99.5
105°	1.5	1.5	7.3	17.6	32.2	46.8	61.5	74.7	82.0	87.8	90.8
107.5°	1.5	1.5	5.9	14.6	27.8	41.0	55.6	65.9	74.7	80.5	83.4
110°	1.5	1.5	4.4	13.2	23.4	36.6	48.3	58.6	67.3	73.2	76.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.5	1.5	4.4	11.7	20.5	32.2	42.5	52.7	60.0	65.9	70.3
115°	1.5	1.5	4.4	10.2	19.0	27.8	38.1	46.8	54.2	60.0	64.4
117.5°	1.5	1.5	4.4	8.8	16.1	24.9	33.7	42.5	48.3	54.2	58.6
120°	1.5	1.5	2.9	7.3	14.6	22.0	29.3	36.6	43.9	49.8	54.2
122.5°	1.5	1.5	2.9	7.3	11.7	19.0	26.3	32.2	39.5	43.9	48.3
125°	1.5	1.5	2.9	5.9	10.2	17.6	23.4	29.3	33.7	39.5	43.9
127.5°	1.5	1.5	2.9	5.9	8.8	14.6	20.5	26.3	30.7	35.1	38.1
130°	1.5	1.5	2.9	4.4	7.3	11.7	17.6	22.0	27.8	30.7	33.7
132.5°	1.5	1.5	1.5	4.4	5.9	8.8	13.2	19.0	23.4	27.8	29.3
135°	1.5	1.5	1.5	2.9	5.9	7.3	10.2	14.6	19.0	23.4	26.3
137.5°	1.5	1.5	1.5	2.9	4.4	7.3	8.8	11.7	16.1	19.0	23.4
140°	1.5	1.5	1.5	2.9	4.4	5.9	7.3	10.2	13.2	16.1	19.0
142.5°	1.5	1.5	1.5	2.9	2.9	4.4	5.9	8.8	10.2	13.2	16.1
145°	1.5	1.5	1.5	2.9	2.9	4.4	5.9	7.3	8.8	10.2	13.2
147.5°	1.5	1.5	1.5	2.9	2.9	2.9	4.4	5.9	7.3	8.8	10.2
150°	2.9	2.9	2.9	2.9	2.9	2.9	4.4	4.4	5.9	7.3	8.8
152.5°	2.9	2.9	2.9	2.9	2.9	2.9	4.4	4.4	4.4	5.9	7.3
155°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.4	4.4	5.9	5.9
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0
2.5°	2809.1	2812.0	2829.6	2828.1	2825.2	2822.3	2822.3	2819.3	2822.3	2829.6	2826.7
5°	2794.4	2798.8	2812.0	2810.5	2807.6	2806.2	2804.7	2800.3	2803.2	2813.5	2810.5
7.5°	2768.1	2772.5	2784.2	2778.3	2774.0	2776.9	2769.6	2765.2	2771.0	2781.3	2779.8
10°	2740.3	2743.2	2757.9	2754.9	2747.6	2749.1	2741.7	2738.8	2746.1	2752.0	2753.5
12.5°	2721.3	2731.5	2744.7	2743.2	2741.7	2743.2	2735.9	2733.0	2737.4	2743.2	2741.7
15°	2716.9	2730.0	2744.7	2744.7	2746.1	2747.6	2740.3	2735.9	2740.3	2744.7	2743.2
17.5°	2712.5	2728.6	2741.7	2740.3	2741.7	2744.7	2733.0	2730.0	2735.9	2741.7	2738.8
20°	2697.8	2712.5	2721.3	2718.3	2718.3	2719.8	2705.2	2705.2	2713.9	2718.3	2719.8
22.5°	2656.8	2674.4	2674.4	2667.1	2667.1	2661.2	2656.8	2648.1	2658.3	2665.6	2671.5
25°	2595.4	2602.7	2593.9	2577.8	2569.0	2561.7	2541.2	2558.8	2558.8	2580.7	2588.0
27.5°	2509.0	2492.9	2468.0	2434.3	2427.0	2403.6	2390.4	2394.8	2402.1	2432.9	2456.3
30°	2367.0	2318.7	2276.3	2261.6	2229.4	2206.0	2182.6	2194.3	2207.5	2225.0	2273.3
32.5°	2179.6	2132.8	2064.0	2039.1	2005.4	1976.2	1948.4	1965.9	1989.3	2001.1	2053.8
35°	1964.5	1908.8	1845.9	1803.4	1768.3	1752.2	1717.1	1742.0	1766.8	1775.6	1821.0
37.5°	1736.1	1679.0	1623.4	1586.8	1553.1	1542.9	1519.5	1537.0	1556.0	1569.2	1607.3
40°	1519.5	1466.8	1424.3	1399.4	1376.0	1367.2	1358.4	1365.8	1380.4	1390.6	1419.9
42.5°	1333.5	1291.1	1261.8	1247.2	1231.1	1219.4	1220.8	1223.8	1231.1	1253.0	1266.2
45°	1171.1	1146.2	1127.1	1124.2	1114.0	1112.5	1111.0	1116.9	1121.3	1134.5	1144.7
47.5°	1040.8	1030.5	1026.1	1032.0	1036.4	1030.5	1033.5	1040.8	1049.6	1049.6	1048.1
50°	938.3	941.2	947.1	960.3	969.1	972.0	974.9	983.7	985.2	988.1	983.7
52.5°	854.9	857.8	873.9	894.4	904.6	909.0	914.9	923.7	923.7	926.6	920.7
55°	770.0	774.4	790.5	811.0	819.7	825.6	831.5	837.3	841.7	847.6	843.2
57.5°	676.3	689.5	699.7	705.6	711.4	715.8	720.2	721.7	730.5	731.9	739.2
60°	576.7	579.7	589.9	588.5	584.1	595.8	589.9	600.2	610.4	623.6	625.1
62.5°	481.6	483.1	490.4	487.5	493.3	491.8	496.2	496.2	503.6	509.4	516.7
65°	406.9	408.4	414.3	414.3	412.8	417.2	421.6	424.5	424.5	428.9	434.8
67.5°	351.3	355.7	361.6	364.5	367.4	367.4	371.8	373.3	376.2	377.7	380.6
70°	313.3	319.1	325.0	327.9	329.4	332.3	333.8	333.8	336.7	338.1	341.1
72.5°	285.4	291.3	295.7	295.7	298.6	300.1	300.1	301.5	303.0	305.9	308.9
75°	262.0	266.4	269.3	267.9	267.9	267.9	269.3	269.3	272.3	275.2	278.1
77.5°	240.1	244.5	244.5	241.5	241.5	241.5	241.5	243.0	244.5	247.4	250.3
80°	224.0	224.0	222.5	222.5	219.6	218.1	218.1	219.6	219.6	222.5	226.9
82.5°	206.4	206.4	204.9	203.5	202.0	200.5	200.5	202.0	203.5	204.9	207.9
85°	190.3	190.3	187.4	187.4	185.9	185.9	185.9	185.9	187.4	188.8	191.8
87.5°	174.2	172.7	171.3	169.8	169.8	169.8	169.8	169.8	171.3	174.2	175.7
90°	158.1	156.6	155.2	155.2	153.7	153.7	155.2	155.2	156.6	158.1	159.6
92.5°	143.5	142.0	140.5	140.5	139.1	139.1	140.5	139.1	142.0	142.0	143.5
95°	130.3	128.8	127.4	127.4	127.4	127.4	127.4	127.4	128.8	128.8	130.3
97.5°	118.6	117.1	115.6	115.6	117.1	115.6	117.1	117.1	117.1	118.6	120.0
100°	108.3	106.9	106.9	108.3	106.9	106.9	108.3	108.3	108.3	108.3	109.8
102.5°	99.5	99.5	99.5	99.5	99.5	99.5	101.0	101.0	101.0	101.0	102.5
105°	90.8	92.2	92.2	92.2	93.7	93.7	93.7	95.1	95.1	95.1	95.1
107.5°	84.9	86.4	86.4	87.8	87.8	89.3	89.3	89.3	89.3	90.8	90.8
110°	79.0	80.5	82.0	83.4	83.4	84.9	84.9	84.9	84.9	84.9	84.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	73.2	74.7	76.1	79.0	80.5	80.5	80.5	80.5	82.0	82.0	80.5
115°	67.3	70.3	71.7	74.7	76.1	76.1	77.6	77.6	77.6	77.6	76.1
117.5°	61.5	65.9	67.3	70.3	71.7	71.7	73.2	73.2	73.2	73.2	71.7
120°	57.1	60.0	62.9	64.4	65.9	67.3	67.3	68.8	68.8	68.8	67.3
122.5°	52.7	55.6	58.6	60.0	61.5	62.9	62.9	62.9	62.9	62.9	62.9
125°	46.8	49.8	52.7	54.2	55.6	57.1	57.1	58.6	58.6	58.6	57.1
127.5°	42.5	45.4	46.8	49.8	51.2	51.2	52.7	52.7	52.7	52.7	51.2
130°	36.6	39.5	42.5	43.9	45.4	45.4	46.8	46.8	46.8	46.8	46.8
132.5°	32.2	35.1	36.6	39.5	39.5	41.0	41.0	42.5	42.5	42.5	41.0
135°	29.3	30.7	32.2	35.1	35.1	36.6	36.6	36.6	36.6	36.6	36.6
137.5°	26.3	27.8	29.3	30.7	30.7	32.2	32.2	32.2	32.2	33.7	32.2
140°	22.0	24.9	26.3	26.3	27.8	27.8	27.8	29.3	29.3	29.3	27.8
142.5°	19.0	20.5	22.0	23.4	24.9	24.9	24.9	24.9	26.3	24.9	24.9
145°	14.6	17.6	19.0	20.5	22.0	22.0	22.0	22.0	22.0	22.0	22.0
147.5°	11.7	13.2	16.1	17.6	17.6	19.0	19.0	19.0	19.0	19.0	19.0
150°	10.2	10.2	13.2	14.6	16.1	16.1	16.1	16.1	16.1	16.1	16.1
152.5°	7.3	8.8	10.2	11.7	13.2	13.2	13.2	13.2	13.2	13.2	13.2
155°	7.3	7.3	8.8	8.8	10.2	10.2	10.2	10.2	11.7	10.2	10.2
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-LD5-83SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0
2.5°	2822.3	2820.8	2826.7	2820.8	2791.5	2803.2	2798.8	2814.9	2816.4	2820.8	2835.4
5°	2807.6	2807.6	2814.9	2809.1	2781.3	2793.0	2791.5	2807.6	2810.5	2813.5	2829.6
7.5°	2778.3	2779.8	2790.1	2785.7	2756.4	2774.0	2772.5	2791.5	2797.4	2803.2	2817.9
10°	2750.5	2749.1	2760.8	2756.4	2728.6	2749.1	2747.6	2766.6	2775.4	2785.7	2803.2
12.5°	2735.9	2731.5	2735.9	2731.5	2700.8	2716.9	2718.3	2740.3	2750.5	2763.7	2784.2
15°	2735.9	2728.6	2728.6	2719.8	2684.7	2694.9	2696.4	2711.0	2724.2	2737.4	2762.2
17.5°	2733.0	2725.6	2724.2	2716.9	2678.8	2678.8	2677.3	2687.6	2694.9	2708.1	2734.4
20°	2716.9	2713.9	2712.5	2708.1	2672.9	2667.1	2664.2	2664.2	2668.6	2672.9	2699.3
22.5°	2674.4	2677.3	2680.3	2683.2	2655.4	2645.1	2646.6	2643.7	2639.3	2639.3	2661.2
25°	2595.4	2610.0	2621.7	2634.9	2618.8	2611.5	2620.3	2615.9	2608.5	2602.7	2621.7
27.5°	2469.5	2500.2	2525.1	2557.3	2558.8	2552.9	2576.3	2573.4	2571.9	2563.2	2577.8
30°	2295.3	2343.6	2377.3	2424.1	2463.6	2469.5	2509.0	2514.9	2520.7	2516.3	2531.0
32.5°	2084.5	2150.4	2207.5	2280.6	2318.7	2352.4	2408.0	2431.4	2454.8	2462.2	2478.3
35°	1854.7	1929.3	1996.7	2077.2	2137.2	2210.4	2277.7	2312.8	2365.5	2386.0	2409.5
37.5°	1636.6	1706.8	1772.7	1853.2	1949.8	2025.9	2109.4	2188.4	2260.2	2289.4	2324.6
40°	1443.3	1500.4	1563.4	1633.6	1721.5	1821.0	1911.8	2021.5	2106.4	2165.0	2216.2
42.5°	1297.0	1324.8	1378.9	1441.9	1512.1	1613.1	1705.4	1828.3	1930.8	2014.2	2099.1
45°	1166.7	1179.8	1219.4	1253.0	1324.8	1414.1	1512.1	1632.2	1739.0	1845.9	1948.4
47.5°	1055.4	1071.5	1090.6	1111.0	1162.3	1236.9	1321.8	1430.2	1537.0	1661.4	1778.6
50°	980.8	985.2	988.1	996.9	1027.6	1078.8	1147.6	1239.9	1342.3	1475.5	1600.0
52.5°	914.9	914.9	906.1	901.7	913.4	945.6	985.2	1051.0	1156.4	1279.4	1411.1
55°	844.6	831.5	828.5	813.9	816.8	831.5	850.5	901.7	988.1	1093.5	1220.8
57.5°	746.6	740.7	740.7	734.8	723.1	730.5	734.8	771.4	832.9	923.7	1034.9
60°	633.8	630.9	638.2	639.7	629.4	633.8	632.4	654.3	698.2	771.4	863.7
62.5°	521.1	534.3	535.8	541.6	535.8	534.3	541.6	560.6	582.6	638.2	710.0
65°	437.7	445.0	446.5	453.8	450.9	450.9	456.7	471.4	484.5	522.6	578.2
67.5°	383.5	380.6	382.1	386.5	382.1	380.6	385.0	393.8	404.0	427.4	467.0
70°	341.1	338.1	338.1	338.1	332.3	327.9	329.4	332.3	336.7	349.9	374.7
72.5°	308.9	308.9	304.5	300.1	295.7	292.8	289.8	286.9	285.4	289.8	303.0
75°	279.6	281.1	279.6	275.2	269.3	263.5	257.6	251.8	244.5	241.5	243.0
77.5°	253.2	254.7	256.2	254.7	248.9	241.5	232.7	224.0	213.7	203.5	197.6
80°	229.8	232.7	234.2	232.7	228.4	222.5	212.3	202.0	187.4	174.2	159.6
82.5°	209.3	213.7	215.2	215.2	212.3	206.4	194.7	183.0	166.9	149.3	130.3
85°	193.2	196.2	199.1	199.1	197.6	191.8	180.1	166.9	150.8	130.3	109.8
87.5°	177.1	178.6	181.5	184.4	181.5	175.7	165.4	150.8	134.7	114.2	90.8
90°	161.0	162.5	165.4	168.3	166.9	161.0	152.2	139.1	121.5	99.5	76.1
92.5°	144.9	147.8	149.3	150.8	152.2	147.8	140.5	127.4	109.8	87.8	65.9
95°	133.2	133.2	136.1	137.6	139.1	134.7	128.8	115.6	99.5	79.0	57.1
97.5°	121.5	121.5	124.4	124.4	125.9	123.0	117.1	105.4	89.3	70.3	48.3
100°	109.8	111.3	112.7	114.2	114.2	112.7	106.9	95.1	80.5	62.9	42.5
102.5°	102.5	102.5	103.9	103.9	105.4	102.5	96.6	86.4	71.7	55.6	36.6
105°	95.1	95.1	96.6	96.6	95.1	92.2	86.4	77.6	64.4	48.3	32.2
107.5°	89.3	89.3	89.3	89.3	87.8	84.9	79.0	68.8	57.1	43.9	29.3
110°	84.9	83.4	83.4	82.0	80.5	76.1	70.3	61.5	51.2	38.1	24.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	80.5	79.0	77.6	76.1	73.2	68.8	62.9	55.6	45.4	33.7	22.0
115°	76.1	74.7	73.2	70.3	67.3	62.9	57.1	49.8	39.5	29.3	19.0
117.5°	71.7	70.3	67.3	64.4	61.5	57.1	51.2	43.9	35.1	26.3	17.6
120°	65.9	64.4	62.9	60.0	57.1	51.2	45.4	39.5	30.7	23.4	14.6
122.5°	61.5	60.0	57.1	55.6	51.2	46.8	41.0	35.1	27.8	20.5	13.2
125°	55.6	54.2	52.7	49.8	46.8	41.0	36.6	30.7	24.9	17.6	10.2
127.5°	51.2	49.8	46.8	43.9	41.0	36.6	32.2	27.8	22.0	14.6	10.2
130°	45.4	43.9	42.5	39.5	36.6	32.2	29.3	23.4	19.0	13.2	8.8
132.5°	39.5	39.5	38.1	35.1	32.2	29.3	24.9	20.5	16.1	11.7	7.3
135°	36.6	35.1	33.7	30.7	29.3	24.9	22.0	17.6	13.2	10.2	5.9
137.5°	32.2	30.7	29.3	27.8	24.9	22.0	19.0	14.6	11.7	8.8	5.9
140°	27.8	26.3	26.3	23.4	22.0	19.0	16.1	13.2	10.2	7.3	4.4
142.5°	24.9	23.4	22.0	20.5	19.0	16.1	13.2	10.2	8.8	5.9	4.4
145°	22.0	20.5	19.0	17.6	16.1	13.2	11.7	8.8	7.3	5.9	4.4
147.5°	17.6	17.6	16.1	14.6	13.2	11.7	10.2	8.8	5.9	4.4	2.9
150°	14.6	14.6	13.2	11.7	11.7	10.2	8.8	7.3	5.9	4.4	2.9
152.5°	13.2	11.7	11.7	10.2	10.2	8.8	7.3	5.9	4.4	4.4	2.9
155°	10.2	10.2	10.2	8.8	8.8	7.3	5.9	5.9	4.4	2.9	2.9
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-LD5-83SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0
2.5°	2838.4	2820.8	2835.4	2861.8	2858.9	2855.9	2853.0	2858.9	2877.9	2867.6	2851.5
5°	2834.0	2816.4	2832.5	2857.4	2855.9	2851.5	2848.6	2854.5	2873.5	2863.2	2845.7
7.5°	2825.2	2809.1	2820.8	2845.7	2845.7	2842.8	2839.8	2845.7	2863.2	2854.5	2836.9
10°	2810.5	2798.8	2810.5	2834.0	2835.4	2829.6	2826.7	2834.0	2851.5	2847.1	2832.5
12.5°	2798.8	2787.1	2800.3	2823.7	2825.2	2819.3	2814.9	2823.7	2847.1	2850.1	2845.7
15°	2782.7	2772.5	2788.6	2813.5	2813.5	2809.1	2809.1	2820.8	2853.0	2866.2	2873.5
17.5°	2759.3	2752.0	2771.0	2795.9	2797.4	2794.4	2795.9	2819.3	2861.8	2894.0	2914.5
20°	2730.0	2727.1	2747.6	2774.0	2778.3	2779.8	2787.1	2822.3	2880.8	2924.7	2945.2
22.5°	2694.9	2696.4	2719.8	2747.6	2753.5	2757.9	2772.5	2822.3	2895.5	2942.3	2951.1
25°	2655.4	2659.8	2684.7	2718.3	2725.6	2734.4	2759.3	2823.7	2899.8	2930.6	2915.9
27.5°	2612.9	2621.7	2653.9	2689.1	2697.8	2712.5	2744.7	2814.9	2879.3	2880.8	2826.7
30°	2569.0	2579.3	2617.3	2658.3	2672.9	2687.6	2727.1	2794.4	2829.6	2782.7	2687.6
32.5°	2519.2	2533.9	2571.9	2621.7	2639.3	2658.3	2697.8	2754.9	2741.7	2640.7	2504.6
35°	2456.3	2476.8	2520.7	2579.3	2595.4	2620.3	2648.1	2661.2	2602.7	2459.2	2305.5
37.5°	2378.7	2409.5	2460.7	2528.0	2545.6	2561.7	2569.0	2532.4	2415.3	2260.2	2100.6
40°	2289.4	2336.3	2391.9	2466.5	2484.1	2484.1	2457.8	2380.2	2232.3	2028.9	1851.7
42.5°	2181.1	2238.2	2308.5	2383.1	2400.7	2380.2	2317.2	2181.1	2012.8	1785.9	1598.5
45°	2049.4	2125.5	2204.5	2282.1	2290.9	2245.5	2132.8	1960.1	1752.2	1541.4	1362.8
47.5°	1892.7	1992.3	2078.6	2166.5	2154.8	2078.6	1927.9	1731.7	1512.1	1313.1	1169.6
50°	1717.1	1834.2	1930.8	2014.2	1989.3	1883.9	1706.8	1501.9	1283.8	1114.0	995.4
52.5°	1529.7	1664.4	1761.0	1828.3	1794.7	1668.8	1474.1	1277.9	1099.3	944.2	865.1
55°	1335.0	1471.1	1570.7	1623.4	1579.5	1443.3	1251.6	1073.0	904.6	803.6	756.8
57.5°	1146.2	1273.5	1367.2	1409.7	1354.0	1217.9	1040.8	890.0	768.5	683.6	660.2
60°	964.7	1068.6	1157.9	1190.1	1130.1	1004.2	851.9	731.9	642.6	584.1	572.4
62.5°	796.3	881.2	951.5	976.4	917.8	819.7	688.0	598.7	535.8	506.5	491.8
65°	657.3	707.0	778.8	774.4	739.2	648.5	551.9	488.9	447.9	428.9	420.1
67.5°	516.7	562.1	607.5	613.3	569.4	506.5	443.5	398.2	376.2	366.0	361.6
70°	399.6	433.3	461.1	453.8	430.4	390.8	351.3	326.4	317.7	313.3	313.3
72.5°	310.3	327.9	341.1	332.3	317.7	297.2	278.1	267.9	269.3	272.3	275.2
75°	240.1	244.5	247.4	238.6	235.7	222.5	221.0	222.5	231.3	240.1	244.5
77.5°	184.4	178.6	174.2	165.4	166.9	165.4	172.7	184.4	197.6	210.8	222.5
80°	142.0	128.8	118.6	109.8	114.2	121.5	136.1	153.7	171.3	185.9	200.5
82.5°	109.8	90.8	76.1	67.3	76.1	87.8	106.9	128.8	149.3	165.4	181.5
85°	84.9	62.9	45.4	36.6	45.4	62.9	83.4	108.3	130.3	147.8	163.9
87.5°	65.9	45.4	24.9	14.6	24.9	43.9	67.3	90.8	112.7	133.2	149.3
90°	52.7	30.7	11.7	2.9	13.2	30.7	52.7	76.1	98.1	120.0	136.1
92.5°	42.5	22.0	5.9	0.0	7.3	23.4	43.9	65.9	87.8	108.3	124.4
95°	35.1	17.6	4.4	0.0	5.9	17.6	35.1	57.1	77.6	98.1	111.3
97.5°	29.3	13.2	2.9	0.0	2.9	14.6	29.3	48.3	68.8	87.8	101.0
100°	24.9	11.7	2.9	0.0	2.9	11.7	24.9	42.5	60.0	77.6	90.8
102.5°	20.5	8.8	1.5	1.5	1.5	8.8	22.0	36.6	52.7	68.8	82.0
105°	19.0	7.3	1.5	1.5	1.5	7.3	19.0	32.2	46.8	61.5	73.2
107.5°	16.1	5.9	1.5	1.5	1.5	5.9	16.1	27.8	42.5	55.6	65.9
110°	13.2	5.9	1.5	1.5	1.5	5.9	13.2	24.9	36.6	48.3	58.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	11.7	4.4	1.5	1.5	1.5	4.4	11.7	22.0	32.2	43.9	52.7
115°	10.2	4.4	1.5	1.5	1.5	4.4	10.2	19.0	27.8	38.1	46.8
117.5°	8.8	4.4	1.5	1.5	1.5	2.9	8.8	16.1	24.9	33.7	42.5
120°	7.3	2.9	1.5	1.5	1.5	2.9	7.3	14.6	22.0	29.3	36.6
122.5°	7.3	2.9	1.5	1.5	1.5	2.9	5.9	11.7	19.0	24.9	32.2
125°	5.9	2.9	1.5	1.5	1.5	1.5	5.9	10.2	16.1	22.0	27.8
127.5°	5.9	2.9	1.5	1.5	1.5	1.5	4.4	8.8	13.2	19.0	24.9
130°	4.4	2.9	1.5	1.5	1.5	1.5	2.9	7.3	11.7	16.1	20.5
132.5°	4.4	2.9	1.5	1.5	1.5	1.5	2.9	5.9	8.8	13.2	17.6
135°	4.4	1.5	1.5	1.5	1.5	1.5	1.5	4.4	7.3	10.2	13.2
137.5°	2.9	1.5	1.5	1.5	1.5	1.5	1.5	2.9	5.9	7.3	11.7
140°	2.9	1.5	1.5	1.5	1.5	1.5	1.5	2.9	4.4	5.9	8.8
142.5°	2.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.9	4.4	7.3
145°	2.9	1.5	1.5	2.9	2.9	1.5	1.5	2.9	2.9	4.4	5.9
147.5°	2.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.9	2.9	4.4
150°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.4
152.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
155°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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-LD5-83SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0
2.5°	2848.6	2814.9	2832.5	2826.7	2832.5	2847.1	2845.7	2841.3	2844.2	2836.9	2829.6
5°	2842.8	2809.1	2826.7	2819.3	2826.7	2841.3	2838.4	2834.0	2838.4	2829.6	2822.3
7.5°	2835.4	2804.7	2825.2	2823.7	2836.9	2855.9	2857.4	2857.4	2867.6	2854.5	2848.6
10°	2835.4	2819.3	2847.1	2857.4	2891.1	2915.9	2918.9	2924.7	2942.3	2939.4	2924.7
12.5°	2866.2	2863.2	2904.2	2929.1	2959.9	2995.0	3014.0	3019.9	3031.6	3022.8	3016.9
15°	2905.7	2920.3	2965.7	2993.5	3027.2	3053.5	3057.9	3060.9	3069.6	3056.5	3046.2
17.5°	2958.4	2967.2	3003.8	3015.5	3037.4	3041.8	3036.0	3021.3	3021.3	2992.1	2983.3
20°	2983.3	2978.9	2993.5	2974.5	2965.7	2939.4	2914.5	2886.7	2885.2	2854.5	2851.5
22.5°	2961.3	2932.0	2901.3	2854.5	2834.0	2795.9	2762.2	2746.1	2735.9	2696.4	2686.1
25°	2883.7	2812.0	2766.6	2711.0	2661.2	2617.3	2585.1	2551.5	2519.2	2487.0	2472.4
27.5°	2749.1	2681.7	2608.5	2531.0	2462.2	2394.8	2340.7	2307.0	2276.3	2233.8	2211.8
30°	2583.7	2490.0	2409.5	2334.8	2222.1	2140.1	2094.7	2027.4	2004.0	1985.0	1944.0
32.5°	2389.0	2276.3	2166.5	2065.5	1949.8	1873.7	1813.7	1763.9	1749.3	1699.5	1687.8
35°	2173.8	2025.9	1901.5	1802.0	1718.5	1626.3	1576.5	1542.9	1513.6	1479.9	1474.1
37.5°	1920.5	1787.3	1646.8	1559.0	1493.1	1414.1	1376.0	1352.6	1339.4	1314.5	1310.1
40°	1665.8	1532.6	1436.0	1348.2	1307.2	1264.7	1236.9	1226.7	1220.8	1212.0	1203.3
42.5°	1434.6	1317.4	1248.6	1190.1	1172.5	1152.0	1144.7	1150.6	1144.7	1141.8	1140.3
45°	1238.4	1149.1	1100.8	1083.2	1078.8	1073.0	1078.8	1089.1	1090.6	1087.6	1087.6
47.5°	1059.8	1017.4	996.9	999.8	1007.1	1011.5	1021.8	1034.9	1037.9	1030.5	1033.5
50°	942.7	917.8	913.4	925.1	941.2	947.1	958.8	969.1	967.6	964.7	961.7
52.5°	832.9	825.6	837.3	849.0	866.6	869.5	873.9	878.3	876.8	871.0	868.0
55°	740.7	746.6	756.8	761.2	774.4	772.9	774.4	774.4	768.5	765.6	761.2
57.5°	657.3	658.7	664.6	666.0	673.4	670.4	669.0	666.0	657.3	655.8	651.4
60°	572.4	569.4	582.6	572.4	578.2	572.4	570.9	563.6	554.8	553.3	550.4
62.5°	491.8	486.0	494.8	490.4	493.3	487.5	484.5	475.7	468.4	467.0	465.5
65°	420.1	417.2	426.0	424.5	427.4	420.1	417.2	411.3	405.5	404.0	402.6
67.5°	360.1	367.4	371.8	371.8	374.7	373.3	366.0	364.5	363.0	357.2	357.2
70°	316.2	320.6	329.4	330.8	329.4	332.3	326.4	325.0	323.5	320.6	319.1
72.5°	281.1	286.9	295.7	297.2	295.7	295.7	292.8	291.3	291.3	286.9	286.9
75°	253.2	260.6	267.9	267.9	267.9	265.0	262.0	262.0	259.1	257.6	254.7
77.5°	229.8	238.6	244.5	243.0	241.5	238.6	238.6	234.2	229.8	229.8	226.9
80°	212.3	218.1	222.5	221.0	219.6	215.2	213.7	209.3	206.4	202.0	202.0
82.5°	193.2	200.5	203.5	202.0	199.1	194.7	193.2	190.3	187.4	185.9	183.0
85°	177.1	184.4	185.9	183.0	180.1	177.1	175.7	174.2	172.7	169.8	169.8
87.5°	161.0	168.3	168.3	166.9	163.9	162.5	161.0	159.6	158.1	156.6	155.2
90°	147.8	153.7	153.7	152.2	150.8	149.3	147.8	146.4	144.9	143.5	143.5
92.5°	134.7	140.5	140.5	139.1	137.6	136.1	136.1	134.7	133.2	131.7	130.3
95°	123.0	128.8	128.8	128.8	127.4	125.9	125.9	124.4	123.0	123.0	121.5
97.5°	111.3	117.1	117.1	117.1	115.6	114.2	114.2	112.7	112.7	112.7	111.3
100°	101.0	105.4	106.9	106.9	105.4	105.4	105.4	103.9	103.9	103.9	102.5
102.5°	90.8	95.1	98.1	98.1	98.1	96.6	96.6	96.6	96.6	96.6	95.1
105°	82.0	86.4	89.3	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
107.5°	74.7	79.0	82.0	83.4	84.9	84.9	86.4	86.4	86.4	86.4	86.4
110°	67.3	71.7	76.1	77.6	79.0	80.5	80.5	82.0	80.5	80.5	80.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	60.0	65.9	68.8	71.7	73.2	74.7	76.1	76.1	76.1	76.1	76.1
115°	54.2	60.0	62.9	65.9	68.8	70.3	70.3	71.7	71.7	71.7	70.3
117.5°	48.3	54.2	57.1	60.0	61.5	64.4	65.9	65.9	65.9	65.9	64.4
120°	43.9	48.3	51.2	54.2	57.1	58.6	60.0	60.0	60.0	60.0	60.0
122.5°	38.1	42.5	46.8	49.8	51.2	52.7	54.2	54.2	54.2	54.2	54.2
125°	33.7	38.1	41.0	43.9	45.4	48.3	48.3	48.3	48.3	48.3	48.3
127.5°	29.3	33.7	36.6	39.5	41.0	42.5	43.9	43.9	43.9	43.9	43.9
130°	24.9	29.3	32.2	35.1	36.6	38.1	38.1	39.5	39.5	39.5	39.5
132.5°	22.0	24.9	27.8	30.7	32.2	33.7	33.7	35.1	35.1	35.1	35.1
135°	17.6	22.0	23.4	26.3	27.8	29.3	29.3	30.7	30.7	30.7	30.7
137.5°	14.6	17.6	20.5	23.4	24.9	24.9	26.3	26.3	27.8	27.8	27.8
140°	11.7	13.2	17.6	19.0	20.5	22.0	23.4	23.4	23.4	23.4	23.4
142.5°	8.8	11.7	13.2	16.1	17.6	19.0	20.5	20.5	20.5	20.5	20.5
145°	7.3	8.8	10.2	13.2	14.6	16.1	17.6	17.6	17.6	17.6	17.6
147.5°	5.9	7.3	8.8	10.2	11.7	13.2	14.6	14.6	14.6	14.6	14.6
150°	4.4	5.9	7.3	7.3	8.8	10.2	11.7	13.2	13.2	13.2	13.2
152.5°	4.4	4.4	5.9	5.9	7.3	8.8	10.2	10.2	10.2	10.2	10.2
155°	2.9	4.4	4.4	4.4	5.9	5.9	7.3	8.8	8.8	8.8	8.8
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-LD5-83SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0
2.5°	2834.0	2839.8	2836.9	2832.5	2831.0	2838.4	2831.0	2797.4	2810.5	2812.0	2822.3
5°	2829.6	2834.0	2831.0	2828.1	2823.7	2832.5	2823.7	2788.6	2801.8	2803.2	2813.5
7.5°	2858.9	2860.3	2860.3	2853.0	2841.3	2845.7	2834.0	2794.4	2801.8	2801.8	2809.1
10°	2932.0	2935.0	2939.4	2920.3	2905.7	2894.0	2877.9	2829.6	2828.1	2816.4	2816.4
12.5°	3027.2	3019.9	3012.6	3003.8	2992.1	2977.4	2954.0	2896.9	2877.9	2858.9	2839.8
15°	3055.0	3052.1	3050.6	3046.2	3038.9	3034.5	3016.9	2959.9	2932.0	2908.6	2875.0
17.5°	2981.8	2987.7	3006.7	3008.2	3016.9	3034.5	3031.6	2992.1	2967.2	2956.9	2915.9
20°	2850.1	2851.5	2875.0	2885.2	2923.3	2952.5	2974.5	2970.1	2964.3	2976.0	2945.2
22.5°	2692.0	2702.2	2727.1	2743.2	2779.8	2813.5	2848.6	2867.6	2898.4	2946.7	2940.8
25°	2476.8	2490.0	2525.1	2551.5	2602.7	2653.9	2700.8	2734.4	2771.0	2863.2	2894.0
27.5°	2219.2	2239.7	2285.0	2311.4	2383.1	2435.8	2503.1	2569.0	2620.3	2725.6	2788.6
30°	1948.4	1965.9	2014.2	2050.8	2112.3	2184.0	2268.9	2362.6	2447.5	2554.4	2633.4
32.5°	1695.1	1714.1	1753.7	1785.9	1854.7	1914.7	2008.4	2124.0	2203.1	2350.9	2456.3
35°	1474.1	1491.6	1519.5	1547.3	1604.4	1665.8	1746.3	1859.1	1960.1	2113.8	2247.0
37.5°	1318.9	1321.8	1337.9	1354.0	1396.5	1443.3	1506.3	1605.8	1699.5	1864.9	2011.3
40°	1207.7	1207.7	1216.4	1220.8	1239.9	1267.7	1307.2	1384.8	1462.4	1588.3	1766.8
42.5°	1138.9	1135.9	1135.9	1137.4	1135.9	1149.1	1172.5	1209.1	1277.9	1381.9	1520.9
45°	1087.6	1081.8	1077.4	1067.1	1061.3	1061.3	1062.7	1075.9	1115.4	1182.8	1295.5
47.5°	1030.5	1029.1	1021.8	1010.0	999.8	992.5	980.8	976.4	988.1	1026.1	1102.3
50°	964.7	957.3	950.0	941.2	929.5	922.2	900.3	901.7	891.5	909.0	948.6
52.5°	868.0	862.2	859.3	851.9	847.6	844.6	827.1	809.5	805.1	808.0	822.7
55°	761.2	764.1	752.4	758.3	756.8	743.6	736.3	723.1	718.7	717.3	724.6
57.5°	649.9	652.9	645.5	651.4	651.4	644.1	639.7	639.7	629.4	620.7	630.9
60°	548.9	543.1	547.5	554.8	554.8	550.4	547.5	547.5	540.2	537.2	544.5
62.5°	467.0	461.1	465.5	472.8	474.3	471.4	468.4	468.4	459.6	459.6	465.5
65°	404.0	405.5	404.0	409.9	409.9	411.3	408.4	405.5	395.2	399.6	398.2
67.5°	358.6	357.2	357.2	363.0	361.6	364.5	361.6	357.2	349.9	344.0	342.5
70°	320.6	319.1	319.1	322.0	323.5	323.5	322.0	319.1	308.9	303.0	298.6
72.5°	286.9	285.4	286.9	288.4	289.8	291.3	289.8	286.9	278.1	270.8	263.5
75°	256.2	254.7	259.1	259.1	260.6	260.6	262.0	260.6	253.2	244.5	235.7
77.5°	225.4	226.9	231.3	232.7	235.7	237.1	238.6	238.6	231.3	224.0	212.3
80°	200.5	203.5	206.4	207.9	210.8	215.2	216.6	218.1	212.3	204.9	191.8
82.5°	183.0	184.4	187.4	188.8	193.2	194.7	196.2	199.1	196.2	188.8	174.2
85°	168.3	169.8	172.7	172.7	175.7	178.6	180.1	181.5	180.1	172.7	158.1
87.5°	155.2	156.6	158.1	159.6	161.0	162.5	163.9	165.4	163.9	156.6	143.5
90°	143.5	143.5	144.9	144.9	146.4	147.8	150.8	150.8	149.3	143.5	130.3
92.5°	130.3	131.7	131.7	133.2	134.7	136.1	137.6	137.6	136.1	130.3	118.6
95°	121.5	121.5	123.0	123.0	124.4	124.4	125.9	125.9	124.4	118.6	106.9
97.5°	111.3	111.3	111.3	111.3	112.7	112.7	114.2	114.2	112.7	106.9	96.6
100°	102.5	102.5	102.5	102.5	102.5	103.9	103.9	103.9	102.5	96.6	86.4
102.5°	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	92.2	87.8	77.6
105°	90.8	90.8	90.8	89.3	89.3	89.3	87.8	87.8	83.4	79.0	70.3
107.5°	84.9	84.9	84.9	83.4	83.4	82.0	80.5	80.5	76.1	71.7	62.9
110°	80.5	80.5	80.5	79.0	77.6	76.1	74.7	73.2	68.8	62.9	55.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	76.1	76.1	74.7	74.7	73.2	71.7	68.8	67.3	62.9	57.1	49.8
115°	70.3	70.3	70.3	68.8	67.3	65.9	64.4	61.5	57.1	51.2	43.9
117.5°	64.4	64.4	64.4	62.9	61.5	60.0	58.6	55.6	51.2	45.4	39.5
120°	58.6	58.6	58.6	57.1	55.6	54.2	52.7	49.8	45.4	41.0	33.7
122.5°	54.2	54.2	52.7	51.2	49.8	48.3	46.8	43.9	41.0	35.1	29.3
125°	48.3	48.3	46.8	46.8	45.4	43.9	42.5	39.5	35.1	30.7	26.3
127.5°	43.9	42.5	42.5	42.5	41.0	39.5	36.6	35.1	30.7	26.3	22.0
130°	38.1	38.1	38.1	36.6	36.6	35.1	32.2	29.3	26.3	23.4	19.0
132.5°	33.7	33.7	33.7	33.7	32.2	30.7	27.8	26.3	23.4	19.0	16.1
135°	30.7	30.7	29.3	29.3	27.8	26.3	24.9	22.0	19.0	16.1	13.2
137.5°	26.3	26.3	26.3	24.9	24.9	23.4	20.5	19.0	17.6	14.6	11.7
140°	23.4	23.4	22.0	22.0	20.5	20.5	19.0	16.1	14.6	11.7	10.2
142.5°	20.5	20.5	19.0	19.0	17.6	17.6	16.1	14.6	11.7	10.2	7.3
145°	17.6	17.6	16.1	16.1	16.1	14.6	13.2	11.7	10.2	8.8	7.3
147.5°	14.6	14.6	14.6	13.2	13.2	11.7	11.7	10.2	8.8	7.3	5.9
150°	13.2	13.2	11.7	11.7	11.7	10.2	8.8	8.8	7.3	5.9	4.4
152.5°	10.2	10.2	10.2	10.2	8.8	8.8	7.3	7.3	5.9	4.4	4.4
155°	8.8	8.8	8.8	7.3	7.3	7.3	5.9	5.9	4.4	4.4	2.9
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-LD5-83SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0
2.5°	2817.9	2816.4	2829.6	2828.1	2810.5	2836.9	2854.5
5°	2810.5	2809.1	2820.8	2823.7	2804.7	2832.5	2851.5
7.5°	2804.7	2803.2	2816.4	2820.8	2801.8	2826.7	2847.1
10°	2806.2	2798.8	2810.5	2813.5	2795.9	2822.3	2839.8
12.5°	2816.4	2798.8	2803.2	2803.2	2787.1	2810.5	2829.6
15°	2841.3	2804.7	2798.8	2794.4	2774.0	2795.9	2814.9
17.5°	2869.1	2819.3	2798.8	2784.2	2759.3	2778.3	2798.8
20°	2896.9	2835.4	2801.8	2778.3	2744.7	2762.2	2776.9
22.5°	2910.1	2850.1	2804.7	2769.6	2727.1	2735.9	2752.0
25°	2892.5	2844.2	2798.8	2756.4	2705.2	2706.6	2719.8
27.5°	2828.1	2814.9	2785.7	2743.2	2687.6	2680.3	2690.5
30°	2718.3	2754.9	2756.4	2725.6	2667.1	2652.5	2656.8
32.5°	2564.6	2646.6	2694.9	2689.1	2637.8	2617.3	2620.3
35°	2387.5	2490.0	2595.4	2630.5	2593.9	2577.8	2571.9
37.5°	2175.2	2312.8	2453.4	2539.7	2533.9	2523.6	2517.8
40°	1941.0	2106.4	2273.3	2410.9	2453.4	2453.4	2456.3
42.5°	1690.7	1883.9	2066.9	2241.1	2340.7	2362.6	2371.4
45°	1449.2	1643.9	1843.0	2043.5	2176.7	2245.5	2270.4
47.5°	1229.6	1425.8	1614.6	1834.2	2011.3	2100.6	2140.1
50°	1042.2	1188.6	1387.7	1605.8	1799.0	1908.8	1986.4
52.5°	887.1	1001.3	1175.5	1378.9	1573.6	1724.4	1796.1
55°	756.8	834.4	982.2	1157.9	1343.8	1500.4	1583.9
57.5°	647.0	708.5	809.5	955.9	1112.5	1267.7	1357.0
60°	550.4	592.9	661.7	777.3	910.5	1043.7	1130.1
62.5°	467.0	494.8	540.2	625.1	729.0	832.9	913.4
65°	402.6	414.3	439.1	491.8	570.9	649.9	718.7
67.5°	339.6	346.9	366.0	398.2	437.7	494.8	540.2
70°	292.8	292.8	294.2	313.3	333.8	370.3	402.6
72.5°	254.7	250.3	241.5	245.9	250.3	270.8	291.3
75°	224.0	213.7	199.1	193.2	190.3	193.2	204.9
77.5°	197.6	183.0	165.4	150.8	139.1	134.7	144.9
80°	175.7	158.1	137.6	118.6	99.5	89.3	93.7
82.5°	158.1	136.1	114.2	92.2	70.3	55.6	55.6
85°	139.1	118.6	95.1	71.7	49.8	30.7	27.8
87.5°	125.9	103.9	79.0	57.1	35.1	16.1	8.8
90°	112.7	90.8	67.3	45.4	24.9	7.3	0.0
92.5°	101.0	80.5	58.6	36.6	17.6	4.4	0.0
95°	90.8	71.7	49.8	30.7	14.6	2.9	1.5
97.5°	80.5	62.9	43.9	24.9	10.2	2.9	1.5
100°	73.2	55.6	38.1	20.5	8.8	1.5	1.5
102.5°	64.4	49.8	32.2	17.6	7.3	1.5	1.5
105°	57.1	43.9	27.8	14.6	5.9	1.5	1.5
107.5°	51.2	38.1	24.9	13.2	5.9	1.5	1.5
110°	45.4	33.7	22.0	11.7	4.4	1.5	1.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	41.0	29.3	19.0	10.2	2.9	1.5	1.5
115°	35.1	26.3	16.1	8.8	2.9	1.5	1.5
117.5°	30.7	22.0	14.6	7.3	2.9	1.5	1.5
120°	26.3	19.0	11.7	5.9	1.5	1.5	1.5
122.5°	23.4	16.1	10.2	5.9	1.5	1.5	1.5
125°	20.5	14.6	8.8	4.4	1.5	1.5	1.5
127.5°	17.6	11.7	7.3	2.9	1.5	1.5	1.5
130°	14.6	10.2	5.9	2.9	1.5	1.5	1.5
132.5°	11.7	8.8	5.9	2.9	1.5	1.5	1.5
135°	10.2	7.3	4.4	2.9	1.5	1.5	1.5
137.5°	8.8	5.9	2.9	2.9	2.9	1.5	1.5
140°	7.3	4.4	2.9	2.9	2.9	2.9	1.5
142.5°	5.9	4.4	2.9	2.9	2.9	2.9	1.5
145°	4.4	2.9	2.9	2.9	2.9	2.9	1.5
147.5°	4.4	2.9	2.9	2.9	2.9	2.9	1.5
150°	2.9	2.9	2.9	2.9	2.9	2.9	2.9
152.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9
155°	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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)