

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-LN-UNV-L935-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-LD5-83SL-LN-UNV-L935-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

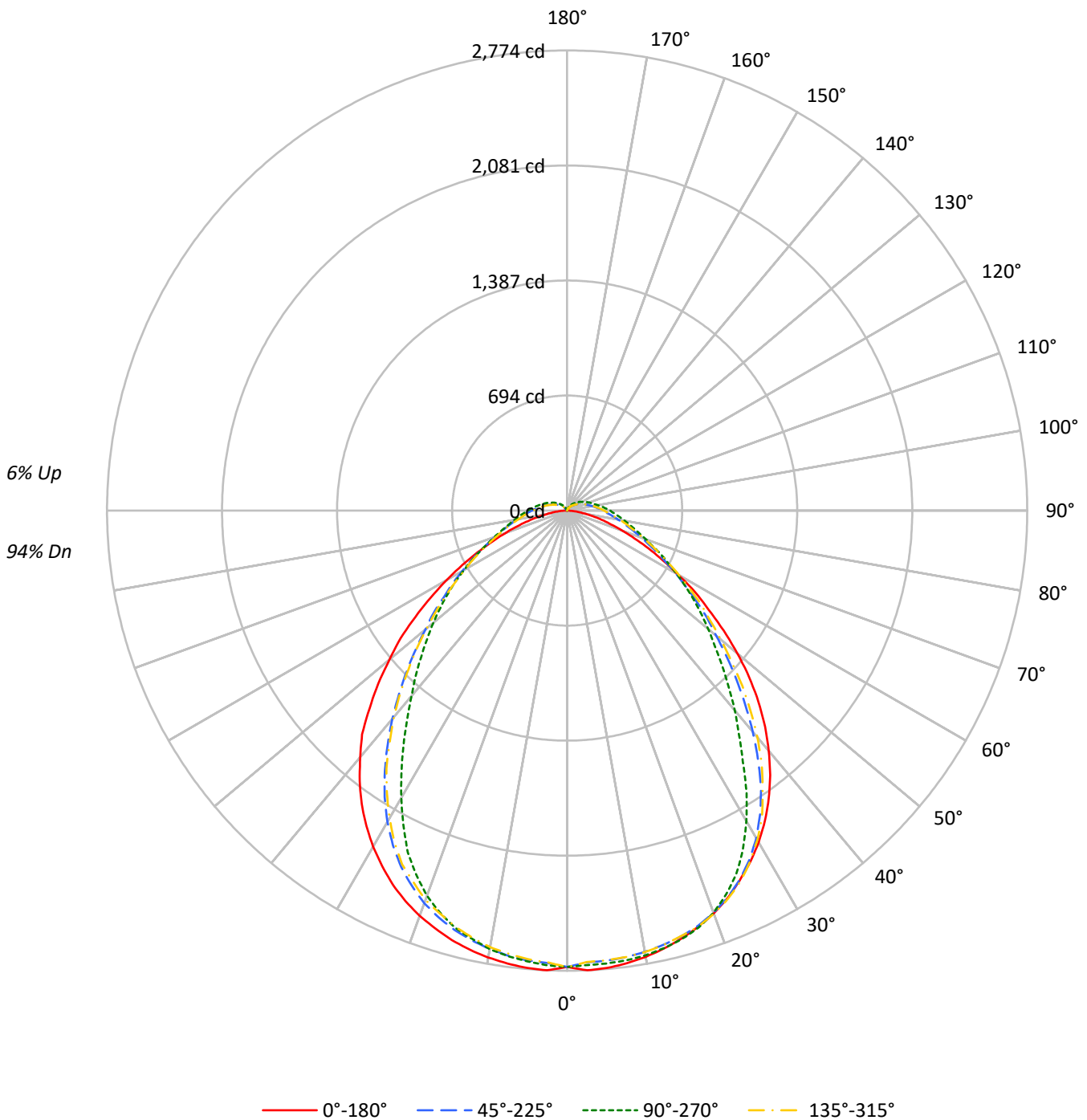
Lumens per Lamp: N/A
Luminaire Lumens: 6962.0 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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



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CATALOG NUMBER: 8SNLED-LD5-83SL-LN-UNV-L935-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°	11115	11115	11115	11115
5°	11210	10761	11210	10714
10°	11175	10475	11194	10330
15°	11119	10162	11170	9898
20°	11050	9760	11115	9348
25°	10890	9163	11010	8623
30°	10677	8286	10817	7671
35°	10337	7211	10536	6714
40°	9840	6306	10100	5851
45°	9178	5482	9476	5167
50°	8264	4817	8628	4574
55°	7174	4254	7695	4039
60°	6060	3735	6608	3520
65°	4997	3302	5501	3062
70°	4011	2931	4491	2711
75°	3192	2706	3593	2489
80°	2362	2611	2781	2386
85°	1546	2625	2085	2413



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.8	3.7
10°-20°	747.8	10.7
20°-30°	1108.4	15.9
30°-40°	1231.3	17.7
40°-50°	1116.2	16.0
50°-60°	864.9	12.4
60°-70°	587.4	8.4
70°-80°	373.7	5.4
80°-90°	238.9	3.4
90°-100°	161.1	2.3
100°-110°	110.3	1.6
110°-120°	73.6	1.1
120°-130°	45.8	0.7
130°-140°	25.3	0.4
140°-150°	11.9	0.2
150°-160°	4.4	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	2117.0	30.4
0°-40°	3348.3	48.1
0°-60°	5329.5	76.6
0°-90°	6529.4	93.8
90°-120°	345.0	5.0
90°-150°	428.0	6.1
90°-180°	433.0	6.2
0°-180°	6962.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2751	2751	2751	2751	2751	
5°	2768	2740	2768	2728	2768	263
15°	2669	2674	2681	2604	2669	753
25°	2460	2415	2488	2273	2460	1133
35°	2118	1846	2159	1719	2118	1322
45°	1631	1320	1684	1244	1631	1253
55°	1041	928	1117	881	1041	937
65°	540	623	595	578	540	542
75°	216	416	244	383	216	233
85°	39	300	53	275	39	47
90°	0	259	3	236	0	2
95°	2	221	0	206	2	1
105°	2	162	0	153	2	2
115°	2	123	0	114	2	1
125°	2	91	2	80	2	1
135°	2	64	2	51	2	1
145°	2	41	2	29	2	1
155°	2	23	2	11	2	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°	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0
2.5°	2773.7	2770.6	2767.6	2763.1	2767.6	2779.7	2772.2	2755.5	2752.5	2725.3	2737.4
5°	2767.6	2763.1	2760.1	2755.5	2761.6	2776.7	2769.1	2754.0	2749.5	2723.7	2737.4
7.5°	2752.5	2749.5	2744.9	2744.9	2751.0	2766.1	2760.1	2743.4	2740.4	2714.7	2729.8
10°	2731.3	2729.8	2726.8	2726.8	2732.8	2751.0	2743.4	2728.3	2725.3	2701.0	2717.7
12.5°	2704.1	2705.6	2701.0	2701.0	2710.1	2728.3	2722.2	2705.6	2702.6	2681.4	2698.0
15°	2669.3	2670.8	2667.8	2669.3	2678.3	2699.5	2692.0	2676.8	2673.8	2657.2	2670.8
17.5°	2629.9	2631.4	2631.4	2629.9	2640.5	2661.7	2655.6	2642.0	2637.5	2623.9	2640.5
20°	2584.5	2584.5	2584.5	2584.5	2596.6	2617.8	2610.3	2599.7	2590.6	2580.0	2593.6
22.5°	2528.5	2527.0	2528.5	2533.1	2545.2	2561.8	2557.3	2545.2	2531.6	2525.5	2536.1
25°	2460.4	2465.0	2466.5	2471.0	2486.2	2499.8	2495.2	2483.1	2462.0	2457.4	2460.4
27.5°	2389.3	2392.4	2396.9	2395.4	2416.6	2430.2	2421.1	2410.5	2380.2	2375.7	2372.7
30°	2309.1	2313.7	2316.7	2315.2	2331.8	2347.0	2337.9	2324.3	2283.4	2280.4	2256.2
32.5°	2218.3	2222.9	2225.9	2225.9	2250.1	2256.2	2239.5	2219.8	2176.0	2165.4	2144.2
35°	2118.5	2123.0	2124.5	2124.5	2148.7	2147.2	2126.0	2098.8	2050.4	2036.8	2000.4
37.5°	2011.0	2014.1	2015.6	2024.6	2035.2	2026.2	1998.9	1964.1	1927.8	1890.0	1850.6
40°	1890.0	1894.5	1897.5	1903.6	1914.2	1903.6	1864.2	1821.9	1782.5	1740.2	1700.8
42.5°	1765.9	1779.5	1776.5	1775.0	1781.0	1752.3	1722.0	1673.6	1634.2	1590.4	1551.0
45°	1631.2	1629.7	1637.3	1640.3	1638.8	1614.6	1572.2	1528.3	1489.0	1443.6	1410.3
47.5°	1489.0	1487.5	1493.5	1496.5	1487.5	1461.7	1428.5	1378.5	1345.2	1305.9	1280.2
50°	1339.2	1339.2	1348.3	1339.2	1334.6	1308.9	1281.7	1231.7	1206.0	1171.2	1156.1
52.5°	1189.4	1203.0	1193.9	1190.9	1186.3	1160.6	1139.4	1098.6	1077.4	1062.3	1044.1
55°	1041.1	1056.2	1050.2	1045.6	1044.1	1022.9	1003.2	973.0	959.4	948.8	938.2
57.5°	915.5	914.0	910.9	906.4	907.9	891.3	871.6	855.0	848.9	844.4	847.4
60°	770.2	782.3	777.8	779.3	780.8	777.8	761.1	750.5	752.1	753.6	758.1
62.5°	650.7	661.3	668.8	662.8	665.8	670.3	661.3	658.2	664.3	670.3	676.4
65°	540.2	550.8	558.4	556.9	565.9	575.0	573.5	576.5	590.1	597.7	605.3
67.5°	440.3	450.9	461.5	463.0	476.7	490.3	496.3	506.9	522.1	532.6	541.7
70°	354.1	363.2	375.3	382.8	401.0	419.2	429.7	450.9	460.0	475.1	481.2
72.5°	276.9	284.5	301.1	319.3	334.4	357.1	378.3	396.5	410.1	426.7	434.3
75°	216.4	219.4	237.6	258.8	279.9	305.7	328.4	348.0	366.2	382.8	394.9
77.5°	158.9	163.4	180.1	208.8	233.0	260.3	286.0	307.2	326.8	343.5	360.1
80°	110.5	119.5	137.7	166.5	193.7	224.0	248.2	272.4	293.6	310.2	326.8
82.5°	71.1	78.7	104.4	133.2	161.9	192.2	217.9	242.1	264.8	283.0	298.1
85°	39.3	49.9	75.7	105.9	134.7	164.9	192.2	216.4	239.1	255.7	270.9
87.5°	15.1	30.3	54.5	83.2	112.0	140.7	169.5	192.2	214.9	233.0	246.6
90°	0.0	18.2	40.9	69.6	98.4	127.1	154.3	178.6	199.7	216.4	231.5
92.5°	1.5	12.1	31.8	56.0	83.2	110.5	136.2	160.4	181.6	198.2	211.8
95°	1.5	9.1	25.7	48.4	72.6	98.4	122.6	145.3	164.9	181.6	195.2
97.5°	1.5	6.1	21.2	42.4	63.6	89.3	112.0	133.2	151.3	168.0	178.6
100°	1.5	6.1	18.2	36.3	57.5	80.2	101.4	122.6	139.2	152.8	164.9
102.5°	1.5	4.5	15.1	31.8	51.4	71.1	92.3	112.0	127.1	140.7	152.8
105°	1.5	4.5	13.6	27.2	45.4	65.1	83.2	101.4	118.0	130.1	140.7
107.5°	1.5	3.0	12.1	22.7	39.3	59.0	77.2	92.3	107.4	119.5	130.1
110°	1.5	3.0	10.6	21.2	34.8	53.0	69.6	84.7	98.4	110.5	119.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.5	3.0	9.1	19.7	31.8	46.9	63.6	77.2	90.8	101.4	110.5
115°	1.5	3.0	9.1	18.2	28.8	40.9	56.0	71.1	81.7	93.8	101.4
117.5°	1.5	3.0	7.6	15.1	27.2	37.8	51.4	63.6	75.7	86.3	93.8
120°	1.5	3.0	7.6	13.6	24.2	34.8	45.4	57.5	69.6	77.2	84.7
122.5°	1.5	3.0	6.1	13.6	21.2	31.8	40.9	51.4	62.0	71.1	78.7
125°	1.5	3.0	6.1	12.1	19.7	28.8	37.8	45.4	56.0	63.6	71.1
127.5°	1.5	3.0	6.1	10.6	18.2	25.7	34.8	42.4	49.9	57.5	63.6
130°	1.5	3.0	4.5	9.1	16.6	22.7	30.3	39.3	45.4	51.4	57.5
132.5°	1.5	3.0	4.5	9.1	13.6	19.7	27.2	34.8	40.9	46.9	51.4
135°	1.5	3.0	4.5	7.6	12.1	18.2	22.7	30.3	36.3	42.4	46.9
137.5°	1.5	3.0	4.5	7.6	10.6	15.1	19.7	25.7	31.8	36.3	42.4
140°	1.5	3.0	4.5	6.1	9.1	13.6	18.2	21.2	27.2	31.8	36.3
142.5°	1.5	3.0	4.5	6.1	9.1	12.1	15.1	18.2	22.7	27.2	31.8
145°	1.5	3.0	4.5	6.1	7.6	10.6	13.6	16.6	18.2	22.7	25.7
147.5°	1.5	3.0	4.5	6.1	6.1	9.1	12.1	13.6	16.6	18.2	21.2
150°	1.5	3.0	4.5	4.5	6.1	7.6	10.6	12.1	13.6	16.6	18.2
152.5°	1.5	3.0	4.5	4.5	6.1	7.6	9.1	10.6	12.1	13.6	15.1
155°	1.5	3.0	4.5	4.5	4.5	6.1	7.6	9.1	10.6	12.1	13.6
157.5°	3.0	3.0	3.0	4.5	4.5	6.1	6.1	7.6	9.1	9.1	10.6
160°	3.0	3.0	3.0	4.5	4.5	4.5	6.1	6.1	7.6	7.6	9.1
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°	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0
2.5°	2734.3	2738.9	2752.5	2752.5	2749.5	2746.4	2746.4	2741.9	2744.9	2751.0	2748.0
5°	2734.3	2738.9	2752.5	2752.5	2749.5	2746.4	2744.9	2740.4	2744.9	2751.0	2748.0
7.5°	2725.3	2731.3	2744.9	2744.9	2741.9	2740.4	2737.4	2734.3	2738.9	2744.9	2741.9
10°	2713.1	2719.2	2732.8	2732.8	2729.8	2729.8	2725.3	2722.2	2728.3	2732.8	2731.3
12.5°	2695.0	2702.6	2714.7	2713.1	2710.1	2711.6	2707.1	2701.0	2707.1	2711.6	2713.1
15°	2669.3	2678.3	2690.4	2687.4	2682.9	2685.9	2678.3	2673.8	2678.3	2687.4	2685.9
17.5°	2636.0	2642.0	2651.1	2651.1	2646.6	2643.5	2640.5	2636.0	2639.0	2645.1	2646.6
20°	2589.1	2596.6	2601.2	2596.6	2595.1	2590.6	2584.5	2580.0	2586.0	2595.1	2596.6
22.5°	2527.0	2528.5	2539.1	2528.5	2521.0	2519.5	2513.4	2504.3	2513.4	2521.0	2522.5
25°	2449.9	2457.4	2452.9	2434.7	2434.7	2422.6	2419.6	2415.0	2416.6	2430.2	2436.2
27.5°	2351.5	2354.5	2342.4	2327.3	2313.7	2306.1	2295.5	2297.0	2297.0	2315.2	2321.2
30°	2244.1	2227.4	2216.8	2192.6	2182.0	2163.9	2160.8	2160.8	2157.8	2166.9	2194.1
32.5°	2115.4	2092.7	2076.1	2053.4	2035.2	2017.1	2008.0	2012.5	2011.0	2033.7	2042.8
35°	1974.7	1961.1	1926.3	1897.5	1886.9	1859.7	1859.7	1846.1	1855.2	1880.9	1891.5
37.5°	1826.4	1805.2	1776.5	1744.7	1737.1	1716.0	1708.4	1700.8	1720.5	1725.0	1735.6
40°	1675.1	1655.4	1628.2	1597.9	1597.9	1572.2	1572.2	1572.2	1573.7	1582.8	1602.5
42.5°	1531.3	1510.2	1486.0	1464.8	1461.7	1442.1	1442.1	1440.6	1443.6	1451.1	1469.3
45°	1392.1	1375.5	1349.8	1339.2	1340.7	1319.5	1324.0	1319.5	1325.6	1333.1	1339.2
47.5°	1263.5	1252.9	1242.3	1227.2	1222.7	1221.1	1213.6	1207.5	1218.1	1218.1	1227.2
50°	1144.0	1137.9	1131.9	1122.8	1124.3	1118.2	1109.2	1109.2	1116.7	1118.2	1124.3
52.5°	1039.6	1032.0	1024.4	1025.9	1027.5	1024.4	1019.9	1015.3	1019.9	1022.9	1030.5
55°	935.2	929.1	936.7	933.6	936.7	933.6	930.6	927.6	935.2	930.6	938.2
57.5°	841.3	847.4	850.4	844.4	848.9	845.9	847.4	842.8	848.9	851.9	850.4
60°	755.1	764.2	759.6	761.1	767.2	764.2	758.1	762.6	768.7	770.2	768.7
62.5°	676.4	687.0	691.5	688.5	690.0	687.0	691.5	685.5	693.0	696.1	691.5
65°	605.3	617.4	620.4	620.4	620.4	617.4	621.9	623.4	626.5	626.5	623.4
67.5°	544.7	555.3	558.4	561.4	558.4	555.3	555.3	556.9	562.9	565.9	562.9
70°	490.3	500.9	502.4	502.4	503.9	506.9	500.9	503.9	508.4	509.9	508.4
72.5°	443.4	454.0	457.0	455.5	457.0	458.5	458.5	455.5	460.0	463.0	463.0
75°	405.5	411.6	414.6	414.6	416.1	417.6	417.6	416.1	419.2	420.7	422.2
77.5°	370.7	375.3	379.8	379.8	381.3	379.8	382.8	382.8	384.3	385.9	387.4
80°	335.9	342.0	345.0	346.5	349.5	351.1	351.1	351.1	352.6	354.1	354.1
82.5°	308.7	313.2	317.8	322.3	322.3	323.8	323.8	323.8	325.3	325.3	326.8
85°	281.5	287.5	292.0	295.1	296.6	298.1	298.1	299.6	299.6	299.6	301.1
87.5°	257.2	264.8	267.8	270.9	272.4	275.4	275.4	275.4	276.9	276.9	276.9
90°	240.6	248.2	251.2	254.2	255.7	257.2	257.2	258.8	258.8	260.3	260.3
92.5°	220.9	228.5	234.5	234.5	236.1	239.1	237.6	237.6	239.1	240.6	240.6
95°	205.8	211.8	216.4	217.9	219.4	219.4	219.4	220.9	219.4	220.9	220.9
97.5°	187.6	193.7	198.2	201.3	202.8	202.8	202.8	204.3	202.8	204.3	204.3
100°	172.5	178.6	183.1	184.6	187.6	187.6	187.6	187.6	187.6	187.6	189.1
102.5°	160.4	166.5	169.5	171.0	172.5	174.0	174.0	174.0	174.0	175.5	175.5
105°	148.3	154.3	157.4	158.9	160.4	161.9	161.9	161.9	163.4	163.4	161.9
107.5°	137.7	142.2	145.3	148.3	149.8	149.8	151.3	151.3	151.3	151.3	151.3
110°	127.1	131.6	136.2	139.2	139.2	140.7	140.7	142.2	142.2	140.7	142.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	116.5	122.6	125.6	128.6	130.1	131.6	131.6	131.6	131.6	131.6	131.6
115°	107.4	113.5	116.5	119.5	121.1	122.6	122.6	122.6	122.6	122.6	122.6
117.5°	99.9	105.9	108.9	110.5	112.0	113.5	115.0	115.0	115.0	115.0	113.5
120°	92.3	96.8	99.9	102.9	104.4	105.9	105.9	105.9	105.9	105.9	105.9
122.5°	84.7	89.3	92.3	95.3	96.8	98.4	98.4	98.4	98.4	98.4	98.4
125°	77.2	81.7	84.7	87.8	89.3	90.8	90.8	90.8	90.8	90.8	90.8
127.5°	69.6	74.1	78.7	80.2	81.7	83.2	83.2	83.2	84.7	83.2	83.2
130°	62.0	66.6	71.1	72.6	74.1	75.7	77.2	77.2	77.2	77.2	75.7
132.5°	56.0	60.5	63.6	65.1	68.1	68.1	69.6	69.6	69.6	69.6	68.1
135°	51.4	54.5	57.5	59.0	62.0	62.0	62.0	63.6	63.6	62.0	60.5
137.5°	45.4	48.4	51.4	53.0	54.5	56.0	56.0	57.5	56.0	56.0	56.0
140°	42.4	43.9	46.9	48.4	49.9	49.9	49.9	51.4	51.4	49.9	49.9
142.5°	36.3	39.3	42.4	43.9	45.4	45.4	45.4	45.4	45.4	45.4	45.4
145°	30.3	34.8	36.3	39.3	39.3	40.9	40.9	40.9	40.9	40.9	39.3
147.5°	25.7	28.8	33.3	34.8	34.8	36.3	36.3	36.3	36.3	36.3	34.8
150°	19.7	22.7	27.2	30.3	30.3	31.8	31.8	31.8	31.8	30.3	30.3
152.5°	16.6	19.7	21.2	24.2	25.7	25.7	25.7	27.2	25.7	25.7	25.7
155°	15.1	16.6	18.2	19.7	21.2	22.7	22.7	22.7	22.7	21.2	21.2
157.5°	12.1	13.6	15.1	16.6	18.2	19.7	19.7	19.7	19.7	19.7	18.2
160°	9.1	10.6	12.1	12.1	13.6	15.1	16.6	15.1	15.1	15.1	15.1
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-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0
2.5°	2744.9	2743.4	2748.0	2740.4	2717.7	2723.7	2720.7	2734.3	2737.4	2740.4	2754.0
5°	2744.9	2743.4	2746.4	2740.4	2716.2	2720.7	2717.7	2731.3	2734.3	2735.8	2749.5
7.5°	2738.9	2737.4	2741.9	2734.3	2708.6	2714.7	2710.1	2723.7	2725.3	2726.8	2738.9
10°	2726.8	2725.3	2728.3	2722.2	2696.5	2702.6	2696.5	2710.1	2710.1	2713.1	2722.2
12.5°	2708.6	2705.6	2711.6	2704.1	2675.3	2682.9	2679.9	2688.9	2690.4	2692.0	2701.0
15°	2682.9	2679.9	2684.4	2679.9	2654.1	2655.6	2651.1	2664.7	2666.2	2663.2	2672.3
17.5°	2645.1	2642.0	2651.1	2648.1	2622.4	2628.4	2626.9	2629.9	2634.5	2626.9	2639.0
20°	2598.1	2601.2	2604.2	2605.7	2586.0	2586.0	2584.5	2590.6	2595.1	2589.1	2598.1
22.5°	2528.5	2536.1	2545.2	2548.2	2534.6	2533.1	2542.2	2539.1	2543.7	2540.6	2546.7
25°	2440.8	2455.9	2465.0	2474.1	2466.5	2469.5	2483.1	2486.2	2486.2	2484.7	2490.7
27.5°	2331.8	2351.5	2368.1	2387.8	2380.2	2386.3	2409.0	2412.0	2418.1	2412.0	2424.1
30°	2201.7	2219.8	2251.6	2280.4	2283.4	2292.5	2324.3	2327.3	2343.9	2337.9	2342.4
32.5°	2071.6	2080.6	2117.0	2145.7	2163.9	2186.6	2221.4	2227.4	2250.1	2254.7	2254.7
35°	1908.1	1933.9	1967.1	2008.0	2030.7	2054.9	2101.8	2110.9	2144.2	2154.8	2166.9
37.5°	1770.4	1794.6	1815.8	1858.2	1899.1	1926.3	1964.1	1986.8	2021.6	2041.3	2056.4
40°	1623.7	1643.3	1666.0	1708.4	1743.2	1784.0	1821.9	1849.1	1893.0	1915.7	1935.4
42.5°	1484.4	1499.6	1523.8	1554.0	1590.4	1635.8	1672.1	1703.9	1750.8	1782.5	1805.2
45°	1360.4	1369.4	1390.6	1413.3	1445.1	1492.0	1526.8	1567.7	1605.5	1638.8	1666.0
47.5°	1243.8	1255.9	1266.5	1281.7	1310.4	1339.2	1380.0	1419.4	1457.2	1493.5	1520.8
50°	1136.4	1136.4	1153.0	1163.6	1183.3	1209.0	1240.8	1268.1	1315.0	1340.7	1375.5
52.5°	1032.0	1038.0	1047.1	1053.2	1068.3	1085.0	1110.7	1133.4	1172.7	1196.9	1230.2
55°	939.7	945.7	950.3	953.3	962.4	982.1	991.1	1009.3	1036.5	1056.2	1085.0
57.5°	851.9	855.0	859.5	861.0	862.5	874.6	882.2	886.7	914.0	933.6	957.8
60°	771.7	771.7	776.3	774.8	773.2	779.3	777.8	782.3	799.0	811.1	821.7
62.5°	696.1	696.1	697.6	694.6	693.0	693.0	687.0	691.5	696.1	697.6	705.1
65°	626.5	634.0	628.0	629.5	620.4	617.4	614.4	605.3	603.8	597.7	600.7
67.5°	564.4	570.5	564.4	564.4	556.9	550.8	543.2	528.1	523.6	511.5	508.4
70°	514.5	509.9	513.0	508.4	499.4	491.8	481.2	469.1	454.0	438.8	428.2
72.5°	466.1	466.1	463.0	458.5	454.0	438.8	426.7	413.1	394.9	375.3	360.1
75°	419.2	420.7	420.7	416.1	408.6	394.9	381.3	361.7	342.0	319.3	299.6
77.5°	385.9	385.9	385.9	378.3	370.7	358.6	342.0	320.8	299.6	272.4	249.7
80°	354.1	352.6	352.6	343.5	335.9	322.3	305.7	284.5	261.8	233.0	207.3
82.5°	328.4	326.8	323.8	316.3	305.7	292.0	275.4	252.7	228.5	202.8	171.0
85°	301.1	299.6	296.6	289.0	278.4	266.3	248.2	225.5	201.3	172.5	142.2
87.5°	276.9	275.4	270.9	266.3	254.2	240.6	222.4	201.3	175.5	148.3	118.0
90°	260.3	257.2	254.2	248.2	237.6	222.4	204.3	181.6	155.9	128.6	98.4
92.5°	240.6	239.1	234.5	228.5	219.4	204.3	186.1	164.9	139.2	113.5	84.7
95°	220.9	219.4	216.4	210.3	201.3	187.6	171.0	149.8	125.6	99.9	74.1
97.5°	202.8	202.8	198.2	193.7	183.1	172.5	155.9	136.2	113.5	90.8	66.6
100°	187.6	187.6	183.1	177.0	169.5	158.9	142.2	124.1	102.9	81.7	57.5
102.5°	174.0	172.5	169.5	163.4	155.9	145.3	130.1	113.5	93.8	72.6	51.4
105°	161.9	160.4	157.4	151.3	145.3	133.2	121.1	104.4	84.7	65.1	45.4
107.5°	149.8	148.3	146.8	140.7	133.2	122.6	110.5	93.8	77.2	59.0	40.9
110°	139.2	137.7	134.7	128.6	121.1	112.0	99.9	86.3	69.6	53.0	36.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	130.1	128.6	125.6	119.5	113.5	102.9	92.3	77.2	63.6	48.4	31.8
115°	121.1	119.5	116.5	110.5	102.9	93.8	83.2	71.1	56.0	42.4	28.8
117.5°	112.0	110.5	107.4	102.9	95.3	86.3	75.7	63.6	49.9	39.3	25.7
120°	104.4	101.4	98.4	93.8	86.3	78.7	68.1	57.5	45.4	34.8	22.7
122.5°	96.8	93.8	90.8	86.3	78.7	71.1	60.5	51.4	42.4	31.8	21.2
125°	87.8	86.3	83.2	78.7	71.1	63.6	56.0	46.9	37.8	28.8	18.2
127.5°	80.2	78.7	75.7	69.6	63.6	57.5	49.9	42.4	33.3	24.2	16.6
130°	74.1	71.1	68.1	63.6	59.0	53.0	45.4	37.8	30.3	21.2	15.1
132.5°	66.6	63.6	60.5	57.5	53.0	46.9	40.9	33.3	27.2	19.7	13.6
135°	60.5	57.5	54.5	51.4	46.9	42.4	36.3	30.3	24.2	18.2	12.1
137.5°	53.0	51.4	49.9	46.9	42.4	37.8	33.3	25.7	21.2	16.6	10.6
140°	48.4	46.9	45.4	40.9	37.8	33.3	28.8	22.7	18.2	13.6	9.1
142.5°	43.9	42.4	39.3	36.3	33.3	30.3	24.2	21.2	16.6	12.1	9.1
145°	37.8	36.3	34.8	31.8	28.8	24.2	21.2	18.2	15.1	10.6	7.6
147.5°	34.8	33.3	30.3	27.2	24.2	21.2	19.7	16.6	12.1	9.1	6.1
150°	28.8	27.2	25.7	22.7	21.2	19.7	16.6	13.6	10.6	7.6	6.1
152.5°	24.2	22.7	21.2	21.2	18.2	16.6	13.6	12.1	9.1	7.6	4.5
155°	21.2	21.2	19.7	18.2	15.1	13.6	12.1	9.1	7.6	6.1	4.5
157.5°	18.2	16.6	15.1	15.1	13.6	12.1	9.1	7.6	6.1	6.1	4.5
160°	15.1	13.6	13.6	12.1	10.6	9.1	7.6	7.6	6.1	4.5	4.5
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-LD5-83SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0
2.5°	2755.5	2738.9	2754.0	2773.7	2773.7	2770.6	2767.6	2773.7	2788.8	2782.8	2764.6
5°	2751.0	2734.3	2748.0	2767.6	2767.6	2763.1	2760.1	2764.6	2781.2	2773.7	2757.0
7.5°	2741.9	2726.8	2735.8	2754.0	2754.0	2749.5	2746.4	2752.5	2766.1	2758.5	2740.4
10°	2725.3	2708.6	2719.2	2735.8	2734.3	2731.3	2726.8	2734.3	2746.4	2735.8	2714.7
12.5°	2704.1	2687.4	2696.5	2711.6	2710.1	2704.1	2701.0	2705.6	2716.2	2710.1	2687.4
15°	2675.3	2658.7	2666.2	2681.4	2676.8	2672.3	2666.2	2667.8	2681.4	2670.8	2646.6
17.5°	2640.5	2622.4	2628.4	2642.0	2637.5	2632.9	2625.4	2626.9	2642.0	2626.9	2601.2
20°	2598.1	2578.5	2583.0	2599.7	2592.1	2584.5	2577.0	2577.0	2592.1	2575.4	2546.7
22.5°	2552.7	2533.1	2536.1	2548.2	2542.2	2528.5	2521.0	2525.5	2533.1	2511.9	2481.6
25°	2496.8	2471.0	2475.6	2487.7	2483.1	2465.0	2457.4	2460.4	2457.4	2440.8	2409.0
27.5°	2431.7	2404.5	2407.5	2415.0	2409.0	2392.4	2383.3	2384.8	2378.7	2357.5	2321.2
30°	2350.0	2336.4	2334.9	2339.4	2330.3	2313.7	2303.1	2300.0	2298.5	2268.3	2224.4
32.5°	2266.8	2254.7	2247.1	2253.1	2242.5	2225.9	2207.7	2207.7	2192.6	2163.9	2126.0
35°	2182.0	2162.3	2154.8	2159.3	2147.2	2126.0	2110.9	2103.3	2080.6	2044.3	2003.5
37.5°	2073.1	2059.5	2050.4	2054.9	2041.3	2026.2	1997.4	1989.8	1965.6	1915.7	1864.2
40°	1955.0	1944.4	1935.4	1939.9	1924.8	1902.1	1876.4	1864.2	1837.0	1781.0	1740.2
42.5°	1827.9	1823.4	1812.8	1829.4	1799.2	1776.5	1750.8	1731.1	1703.9	1643.3	1596.4
45°	1693.3	1703.9	1679.6	1684.2	1664.5	1644.8	1617.6	1588.8	1561.6	1504.1	1451.1
47.5°	1551.0	1558.6	1541.9	1545.0	1523.8	1505.6	1481.4	1445.1	1414.8	1364.9	1318.0
50°	1404.2	1401.2	1401.2	1398.2	1381.5	1358.8	1334.6	1301.3	1271.1	1225.7	1186.3
52.5°	1248.4	1254.4	1257.5	1265.0	1243.8	1230.2	1192.4	1163.6	1140.9	1094.0	1060.7
55°	1098.6	1119.8	1113.7	1116.7	1092.5	1081.9	1051.7	1029.0	995.7	968.4	947.3
57.5°	962.4	966.9	970.0	974.5	963.9	942.7	918.5	900.3	874.6	851.9	836.8
60°	830.7	830.7	832.3	839.8	829.2	811.1	792.9	779.3	761.1	747.5	738.4
62.5°	706.7	717.3	718.8	712.7	699.1	690.0	677.9	670.3	658.2	653.7	650.7
65°	591.7	591.7	591.7	594.7	587.1	581.1	573.5	572.0	576.5	570.5	573.5
67.5°	494.8	490.3	487.2	488.8	485.7	482.7	481.2	485.7	494.8	494.8	502.4
70°	411.6	402.5	396.5	396.5	396.5	398.0	402.5	411.6	426.7	432.8	443.4
72.5°	343.5	323.8	314.7	314.7	316.3	322.3	335.9	352.6	366.2	378.3	391.9
75°	278.4	258.8	245.1	243.6	246.6	255.7	275.4	290.5	313.2	329.9	346.5
77.5°	225.5	201.3	184.6	183.1	187.6	201.3	225.5	245.1	270.9	289.0	307.2
80°	180.1	152.8	139.2	130.1	137.7	154.3	181.6	205.8	230.0	254.2	276.9
82.5°	143.8	118.0	96.8	87.8	96.8	119.5	145.3	174.0	198.2	224.0	246.6
85°	113.5	86.3	62.0	53.0	63.6	87.8	116.5	145.3	172.5	198.2	220.9
87.5°	89.3	62.0	37.8	25.7	39.3	65.1	92.3	121.1	149.8	175.5	198.2
90°	69.6	43.9	21.2	3.0	22.7	46.9	74.1	101.4	130.1	155.9	178.6
92.5°	59.0	33.3	12.1	0.0	13.6	34.8	60.5	87.8	113.5	139.2	161.9
95°	49.9	27.2	9.1	0.0	9.1	27.2	49.9	74.1	99.9	125.6	148.3
97.5°	42.4	21.2	6.1	0.0	6.1	21.2	40.9	65.1	87.8	112.0	133.2
100°	36.3	18.2	4.5	0.0	4.5	16.6	34.8	56.0	78.7	101.4	121.1
102.5°	31.8	15.1	3.0	0.0	3.0	13.6	28.8	48.4	68.1	89.3	108.9
105°	27.2	12.1	3.0	0.0	1.5	10.6	24.2	42.4	60.5	80.2	98.4
107.5°	24.2	10.6	3.0	0.0	1.5	9.1	21.2	36.3	54.5	71.1	87.8
110°	21.2	9.1	3.0	0.0	1.5	6.1	18.2	31.8	46.9	63.6	80.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	18.2	7.6	1.5	0.0	0.0	4.5	15.1	27.2	40.9	57.5	71.1
115°	16.6	7.6	1.5	0.0	0.0	3.0	12.1	24.2	36.3	51.4	63.6
117.5°	15.1	6.1	1.5	0.0	1.5	3.0	10.6	21.2	31.8	43.9	57.5
120°	13.6	6.1	1.5	0.0	1.5	1.5	7.6	18.2	27.2	39.3	49.9
122.5°	12.1	6.1	1.5	0.0	1.5	1.5	6.1	15.1	24.2	34.8	43.9
125°	10.6	4.5	3.0	1.5	1.5	1.5	4.5	12.1	21.2	28.8	39.3
127.5°	10.6	4.5	3.0	1.5	1.5	1.5	3.0	10.6	16.6	25.7	34.8
130°	9.1	4.5	3.0	1.5	1.5	1.5	1.5	7.6	15.1	21.2	28.8
132.5°	7.6	4.5	3.0	1.5	1.5	1.5	1.5	4.5	10.6	18.2	24.2
135°	7.6	4.5	3.0	1.5	1.5	1.5	1.5	3.0	7.6	13.6	19.7
137.5°	6.1	3.0	3.0	1.5	1.5	1.5	1.5	1.5	6.1	10.6	15.1
140°	6.1	3.0	3.0	1.5	1.5	1.5	1.5	1.5	4.5	7.6	12.1
142.5°	4.5	3.0	3.0	1.5	1.5	1.5	1.5	1.5	3.0	6.1	9.1
145°	4.5	3.0	3.0	1.5	1.5	1.5	1.5	1.5	1.5	3.0	6.1
147.5°	4.5	4.5	3.0	1.5	1.5	1.5	1.5	1.5	1.5	3.0	4.5
150°	4.5	3.0	3.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0
152.5°	4.5	3.0	3.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0
155°	4.5	3.0	3.0	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0
157.5°	4.5	3.0	3.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0
160°	4.5	3.0	3.0	1.5	3.0	1.5	3.0	3.0	3.0	3.0	3.0
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-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0
2.5°	2758.5	2729.8	2744.9	2740.4	2746.4	2758.5	2757.0	2754.0	2754.0	2749.5	2743.4
5°	2749.5	2722.2	2735.8	2728.3	2735.8	2746.4	2744.9	2740.4	2743.4	2735.8	2728.3
7.5°	2731.3	2707.1	2719.2	2713.1	2719.2	2729.8	2725.3	2723.7	2726.8	2714.7	2710.1
10°	2710.1	2682.9	2696.5	2688.9	2696.5	2704.1	2701.0	2695.0	2701.0	2688.9	2684.4
12.5°	2676.8	2654.1	2663.2	2660.2	2664.7	2672.3	2666.2	2661.7	2664.7	2654.1	2645.1
15°	2640.5	2617.8	2625.4	2620.8	2623.9	2632.9	2622.4	2620.8	2617.8	2607.2	2604.2
17.5°	2593.6	2572.4	2580.0	2572.4	2577.0	2573.9	2572.4	2564.9	2564.9	2552.7	2543.7
20°	2536.1	2517.9	2513.4	2507.4	2513.4	2507.4	2498.3	2492.2	2490.7	2478.6	2471.0
22.5°	2469.5	2448.3	2451.4	2434.7	2436.2	2427.2	2412.0	2406.0	2399.9	2386.3	2375.7
25°	2389.3	2368.1	2353.0	2342.4	2328.8	2327.3	2307.6	2292.5	2291.0	2274.3	2272.8
27.5°	2298.5	2274.3	2262.2	2236.5	2219.8	2206.2	2189.6	2174.5	2166.9	2148.7	2136.6
30°	2194.1	2166.9	2136.6	2118.5	2092.7	2082.1	2053.4	2035.2	2029.2	2009.5	2000.4
32.5°	2076.1	2047.3	2023.1	1988.3	1959.6	1944.4	1915.7	1897.5	1890.0	1868.8	1856.7
35°	1947.5	1915.7	1886.9	1853.7	1831.0	1805.2	1770.4	1752.3	1735.6	1728.1	1719.0
37.5°	1812.8	1778.0	1744.7	1711.4	1691.7	1661.5	1631.2	1619.1	1599.4	1591.9	1582.8
40°	1673.6	1638.8	1607.0	1575.2	1552.5	1525.3	1498.1	1493.5	1472.3	1464.8	1458.7
42.5°	1535.9	1499.6	1463.3	1440.6	1423.9	1396.7	1378.5	1374.0	1355.8	1351.3	1351.3
45°	1411.8	1366.4	1336.1	1316.5	1302.9	1280.2	1265.0	1262.0	1246.9	1243.8	1243.8
47.5°	1278.6	1236.3	1213.6	1201.5	1189.4	1172.7	1163.6	1163.6	1148.5	1145.5	1144.0
50°	1154.6	1115.2	1098.6	1086.5	1085.0	1072.9	1065.3	1062.3	1062.3	1051.7	1053.2
52.5°	1036.5	1016.9	1003.2	995.7	986.6	979.0	973.0	973.0	968.4	960.9	963.9
55°	927.6	904.9	906.4	900.3	895.8	891.3	892.8	883.7	882.2	876.1	880.7
57.5°	818.6	818.6	815.6	811.1	803.5	806.5	806.5	806.5	799.0	794.4	799.0
60°	726.3	730.9	723.3	727.8	724.8	726.3	723.3	723.3	718.8	717.3	718.8
62.5°	644.6	652.2	649.2	655.2	652.2	653.7	656.7	650.7	647.6	644.6	647.6
65°	572.0	581.1	579.6	584.1	585.6	587.1	588.6	585.6	582.6	579.6	578.0
67.5°	508.4	517.5	523.6	525.1	526.6	531.1	529.6	526.6	523.6	519.0	517.5
70°	450.9	463.0	470.6	473.6	479.7	476.7	476.7	475.1	472.1	467.6	466.1
72.5°	402.5	416.1	423.7	426.7	432.8	432.8	431.3	429.7	426.7	422.2	420.7
75°	360.1	372.2	382.8	388.9	393.4	393.4	391.9	390.4	387.4	384.3	382.8
77.5°	326.8	337.4	346.5	354.1	357.1	358.6	357.1	354.1	354.1	352.6	351.1
80°	293.6	305.7	314.7	322.3	326.8	326.8	325.3	326.8	323.8	322.3	320.8
82.5°	264.8	278.4	289.0	296.6	299.6	301.1	299.6	301.1	298.1	298.1	298.1
85°	239.1	252.7	264.8	270.9	275.4	276.9	276.9	276.9	275.4	275.4	275.4
87.5°	217.9	231.5	243.6	249.7	254.2	255.7	255.7	257.2	254.2	254.2	254.2
90°	198.2	211.8	224.0	230.0	234.5	237.6	237.6	239.1	237.6	236.1	236.1
92.5°	180.1	195.2	207.3	213.4	217.9	222.4	222.4	224.0	220.9	220.9	220.9
95°	164.9	180.1	190.7	198.2	202.8	205.8	207.3	207.3	205.8	205.8	205.8
97.5°	151.3	164.9	175.5	183.1	187.6	189.1	190.7	192.2	190.7	190.7	190.7
100°	137.7	151.3	161.9	168.0	174.0	175.5	177.0	178.6	178.6	177.0	177.0
102.5°	125.6	139.2	148.3	155.9	160.4	163.4	164.9	164.9	164.9	164.9	164.9
105°	113.5	127.1	136.2	143.8	148.3	151.3	152.8	154.3	154.3	152.8	152.8
107.5°	102.9	115.0	125.6	131.6	137.7	140.7	142.2	142.2	143.8	142.2	142.2
110°	92.3	105.9	115.0	121.1	127.1	130.1	131.6	133.2	133.2	133.2	133.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	84.7	95.3	104.4	110.5	116.5	119.5	121.1	122.6	124.1	122.6	122.6
115°	75.7	86.3	95.3	101.4	105.9	108.9	112.0	113.5	113.5	115.0	113.5
117.5°	68.1	77.2	86.3	92.3	96.8	101.4	102.9	104.4	105.9	104.4	104.4
120°	60.5	69.6	77.2	83.2	87.8	92.3	93.8	95.3	96.8	95.3	95.3
122.5°	54.5	62.0	69.6	75.7	80.2	83.2	86.3	86.3	87.8	87.8	87.8
125°	48.4	56.0	62.0	68.1	72.6	75.7	77.2	78.7	78.7	80.2	80.2
127.5°	42.4	48.4	56.0	60.5	65.1	68.1	69.6	71.1	71.1	72.6	72.6
130°	36.3	42.4	48.4	53.0	57.5	60.5	62.0	63.6	65.1	65.1	65.1
132.5°	31.8	37.8	42.4	46.9	49.9	53.0	56.0	57.5	57.5	57.5	57.5
135°	25.7	31.8	36.3	40.9	43.9	46.9	48.4	51.4	51.4	51.4	51.4
137.5°	21.2	27.2	31.8	34.8	37.8	40.9	42.4	43.9	45.4	45.4	45.4
140°	16.6	21.2	25.7	30.3	33.3	34.8	37.8	37.8	39.3	39.3	39.3
142.5°	12.1	16.6	19.7	24.2	27.2	30.3	31.8	33.3	33.3	33.3	33.3
145°	9.1	12.1	15.1	18.2	22.7	24.2	25.7	27.2	28.8	28.8	28.8
147.5°	6.1	9.1	10.6	13.6	16.6	19.7	21.2	22.7	24.2	24.2	24.2
150°	4.5	6.1	9.1	10.6	12.1	15.1	18.2	18.2	19.7	19.7	18.2
152.5°	3.0	4.5	6.1	7.6	9.1	10.6	13.6	13.6	15.1	15.1	15.1
155°	3.0	3.0	3.0	4.5	6.1	7.6	9.1	10.6	10.6	10.6	10.6
157.5°	3.0	3.0	3.0	3.0	3.0	4.5	6.1	7.6	7.6	7.6	7.6
160°	3.0	3.0	1.5	1.5	3.0	3.0	3.0	3.0	4.5	4.5	4.5
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-LD5-83SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0
2.5°	2748.0	2751.0	2751.0	2748.0	2746.4	2752.5	2744.9	2716.2	2725.3	2728.3	2737.4
5°	2734.3	2737.4	2737.4	2737.4	2734.3	2740.4	2732.8	2704.1	2714.7	2719.2	2725.3
7.5°	2714.7	2716.2	2719.2	2717.7	2714.7	2723.7	2716.2	2687.4	2695.0	2702.6	2710.1
10°	2688.9	2688.9	2690.4	2693.5	2690.4	2698.0	2690.4	2664.7	2672.3	2676.8	2685.9
12.5°	2654.1	2657.2	2658.7	2657.2	2655.6	2661.7	2658.7	2634.5	2637.5	2646.6	2655.6
15°	2607.2	2607.2	2614.8	2611.8	2611.8	2617.8	2620.8	2593.6	2598.1	2611.8	2620.8
17.5°	2549.7	2551.2	2557.3	2560.3	2558.8	2569.4	2570.9	2549.7	2548.2	2564.9	2573.9
20°	2475.6	2478.6	2486.2	2492.2	2492.2	2504.3	2508.9	2495.2	2496.8	2514.9	2517.9
22.5°	2384.8	2384.8	2398.4	2407.5	2415.0	2422.6	2436.2	2424.1	2424.1	2448.3	2462.0
25°	2272.8	2283.4	2287.9	2306.1	2316.7	2337.9	2350.0	2351.5	2353.0	2375.7	2384.8
27.5°	2148.7	2151.8	2165.4	2186.6	2198.7	2218.3	2241.0	2245.6	2253.1	2283.4	2297.0
30°	2008.0	2017.1	2023.1	2053.4	2070.0	2095.8	2124.5	2135.1	2141.2	2182.0	2198.7
32.5°	1864.2	1867.3	1893.0	1909.6	1929.3	1956.6	1989.8	2009.5	2021.6	2064.0	2088.2
35°	1720.5	1726.5	1747.7	1768.9	1788.6	1815.8	1850.6	1877.9	1899.1	1936.9	1968.7
37.5°	1588.8	1604.0	1608.5	1629.7	1644.8	1672.1	1696.3	1735.6	1756.8	1796.2	1837.0
40°	1470.8	1475.4	1478.4	1499.6	1510.2	1535.9	1570.7	1596.4	1625.2	1653.9	1702.3
42.5°	1354.3	1357.3	1361.9	1374.0	1386.1	1404.2	1430.0	1455.7	1486.0	1528.3	1560.1
45°	1246.9	1249.9	1252.9	1260.5	1271.1	1287.7	1304.4	1322.5	1352.8	1389.1	1422.4
47.5°	1147.0	1153.0	1153.0	1154.6	1162.1	1175.7	1187.9	1210.6	1227.2	1246.9	1284.7
50°	1051.7	1056.2	1057.7	1057.7	1062.3	1071.3	1074.4	1089.5	1104.6	1122.8	1150.0
52.5°	962.4	962.4	960.9	966.9	966.9	973.0	974.5	983.6	994.2	1013.8	1025.9
55°	877.6	877.6	882.2	879.2	879.2	882.2	880.7	882.2	891.3	903.4	914.0
57.5°	795.9	794.4	799.0	795.9	794.4	797.5	800.5	794.4	795.9	808.0	808.0
60°	714.2	715.7	720.3	717.3	717.3	717.3	714.2	711.2	708.2	715.7	718.8
62.5°	649.2	644.6	649.2	644.6	647.6	646.1	643.1	637.1	638.6	635.5	632.5
65°	581.1	581.1	582.6	578.0	581.1	581.1	576.5	575.0	565.9	562.9	555.3
67.5°	522.1	522.1	523.6	520.5	520.5	522.1	517.5	513.0	503.9	499.4	488.8
70°	470.6	470.6	470.6	469.1	469.1	469.1	466.1	460.0	450.9	443.4	429.7
72.5°	423.7	425.2	423.7	423.7	428.2	423.7	419.2	413.1	405.5	390.4	378.3
75°	385.9	387.4	385.9	385.9	385.9	384.3	382.8	373.8	364.7	352.6	334.4
77.5°	352.6	352.6	354.1	352.6	352.6	351.1	346.5	339.0	328.4	317.8	296.6
80°	320.8	322.3	323.8	325.3	322.3	320.8	316.3	310.2	296.6	284.5	263.3
82.5°	298.1	296.6	298.1	299.6	296.6	295.1	290.5	283.0	272.4	255.7	234.5
85°	275.4	273.9	273.9	275.4	273.9	270.9	266.3	258.8	248.2	231.5	210.3
87.5°	252.7	254.2	255.7	254.2	252.7	249.7	245.1	237.6	225.5	211.8	189.1
90°	236.1	236.1	236.1	236.1	234.5	231.5	227.0	217.9	207.3	190.7	171.0
92.5°	220.9	220.9	220.9	220.9	219.4	214.9	210.3	202.8	190.7	174.0	155.9
95°	205.8	207.3	205.8	205.8	202.8	201.3	193.7	186.1	175.5	158.9	139.2
97.5°	189.1	190.7	189.1	189.1	187.6	184.6	180.1	171.0	160.4	145.3	127.1
100°	177.0	177.0	175.5	175.5	174.0	171.0	164.9	157.4	146.8	131.6	113.5
102.5°	163.4	164.9	163.4	163.4	160.4	157.4	152.8	145.3	134.7	119.5	102.9
105°	152.8	152.8	151.3	151.3	148.3	145.3	140.7	131.6	122.6	108.9	92.3
107.5°	142.2	142.2	140.7	140.7	137.7	134.7	128.6	121.1	112.0	98.4	83.2
110°	131.6	131.6	131.6	130.1	127.1	122.6	118.0	110.5	101.4	89.3	74.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	124.1	122.6	121.1	119.5	116.5	113.5	107.4	99.9	90.8	80.2	66.6
115°	113.5	113.5	112.0	110.5	107.4	102.9	98.4	92.3	83.2	71.1	59.0
117.5°	104.4	104.4	102.9	101.4	98.4	93.8	89.3	83.2	74.1	63.6	53.0
120°	95.3	95.3	93.8	92.3	89.3	84.7	81.7	74.1	66.6	56.0	46.9
122.5°	87.8	86.3	86.3	83.2	81.7	77.2	72.6	66.6	59.0	49.9	40.9
125°	78.7	78.7	77.2	75.7	74.1	69.6	65.1	59.0	51.4	43.9	36.3
127.5°	71.1	71.1	69.6	68.1	66.6	62.0	57.5	53.0	45.4	37.8	30.3
130°	63.6	63.6	62.0	60.5	59.0	54.5	51.4	45.4	39.3	33.3	25.7
132.5°	57.5	57.5	56.0	54.5	51.4	48.4	45.4	39.3	34.8	28.8	22.7
135°	51.4	49.9	49.9	48.4	45.4	42.4	39.3	34.8	28.8	24.2	18.2
137.5°	45.4	43.9	42.4	40.9	39.3	36.3	33.3	30.3	25.7	19.7	15.1
140°	39.3	37.8	37.8	36.3	33.3	31.8	28.8	24.2	21.2	16.6	12.1
142.5°	33.3	33.3	31.8	30.3	28.8	27.2	24.2	21.2	16.6	13.6	9.1
145°	28.8	27.2	27.2	25.7	24.2	21.2	19.7	16.6	13.6	10.6	7.6
147.5°	22.7	22.7	22.7	21.2	19.7	18.2	16.6	13.6	10.6	7.6	4.5
150°	18.2	18.2	18.2	16.6	15.1	13.6	12.1	10.6	7.6	4.5	3.0
152.5°	15.1	15.1	13.6	13.6	12.1	10.6	9.1	7.6	4.5	3.0	3.0
155°	10.6	10.6	10.6	9.1	9.1	7.6	6.1	4.5	3.0	3.0	3.0
157.5°	7.6	7.6	7.6	6.1	6.1	4.5	4.5	3.0	3.0	3.0	3.0
160°	4.5	4.5	4.5	4.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0
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-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0	2751.0
2.5°	2732.8	2731.3	2743.4	2743.4	2729.8	2751.0	2773.7
5°	2723.7	2722.2	2734.3	2734.3	2722.2	2743.4	2767.6
7.5°	2705.6	2707.1	2719.2	2722.2	2707.1	2726.8	2752.5
10°	2685.9	2684.4	2698.0	2701.0	2688.9	2707.1	2731.3
12.5°	2654.1	2654.1	2667.8	2672.3	2660.2	2681.4	2704.1
15°	2620.8	2620.8	2629.9	2637.5	2626.9	2646.6	2669.3
17.5°	2578.5	2577.0	2586.0	2595.1	2584.5	2605.7	2629.9
20°	2524.0	2524.0	2534.6	2545.2	2537.6	2557.3	2584.5
22.5°	2466.5	2460.4	2478.6	2486.2	2481.6	2501.3	2528.5
25°	2393.9	2392.4	2410.5	2421.1	2415.0	2436.2	2460.4
27.5°	2315.2	2313.7	2331.8	2345.4	2342.4	2362.1	2389.3
30°	2219.8	2227.4	2244.1	2266.8	2259.2	2280.4	2309.1
32.5°	2120.0	2127.5	2147.2	2171.4	2172.9	2189.6	2218.3
35°	2000.4	2020.1	2033.7	2065.5	2071.6	2088.2	2118.5
37.5°	1874.8	1897.5	1926.3	1950.5	1962.6	1976.2	2011.0
40°	1734.1	1767.4	1799.2	1827.9	1843.1	1856.7	1890.0
42.5°	1607.0	1632.7	1663.0	1691.7	1719.0	1731.1	1765.9
45°	1463.3	1493.5	1520.8	1555.6	1582.8	1596.4	1631.2
47.5°	1322.5	1352.8	1389.1	1413.3	1442.1	1455.7	1489.0
50°	1187.9	1215.1	1245.4	1274.1	1298.3	1310.4	1339.2
52.5°	1054.7	1083.4	1112.2	1130.4	1156.1	1165.2	1189.4
55°	936.7	956.3	982.1	992.7	1018.4	1024.4	1041.1
57.5°	823.2	836.8	845.9	864.0	882.2	895.8	915.5
60°	720.3	726.3	732.4	743.0	758.1	762.6	770.2
62.5°	628.0	626.5	638.6	641.6	643.1	658.2	650.7
65°	546.3	547.8	537.2	532.6	538.7	543.2	540.2
67.5°	478.2	469.1	460.0	449.4	440.3	444.9	440.3
70°	411.6	404.0	388.9	373.8	367.7	358.6	354.1
72.5°	358.6	340.5	325.3	305.7	295.1	284.5	276.9
75°	317.8	292.0	270.9	249.7	234.5	219.4	216.4
77.5°	275.4	251.2	227.0	204.3	181.6	164.9	158.9
80°	242.1	219.4	190.7	163.4	139.2	118.0	110.5
82.5°	211.8	187.6	158.9	130.1	102.9	80.2	71.1
85°	186.1	160.4	131.6	102.9	75.7	51.4	39.3
87.5°	166.5	137.7	108.9	81.7	53.0	28.8	15.1
90°	148.3	121.1	93.8	65.1	37.8	15.1	0.0
92.5°	131.6	105.9	78.7	53.0	28.8	9.1	1.5
95°	116.5	93.8	66.6	42.4	21.2	6.1	1.5
97.5°	104.4	81.7	57.5	34.8	16.6	4.5	1.5
100°	93.8	71.1	49.9	28.8	13.6	3.0	1.5
102.5°	83.2	63.6	42.4	24.2	10.6	1.5	1.5
105°	74.1	56.0	36.3	21.2	9.1	1.5	1.5
107.5°	66.6	49.9	31.8	18.2	6.1	1.5	1.5
110°	59.0	42.4	27.2	15.1	4.5	1.5	1.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	53.0	37.8	24.2	12.1	3.0	1.5	1.5
115°	46.9	33.3	21.2	10.6	3.0	1.5	1.5
117.5°	40.9	28.8	18.2	7.6	1.5	1.5	1.5
120°	36.3	25.7	15.1	6.1	1.5	1.5	1.5
122.5°	31.8	21.2	12.1	4.5	1.5	1.5	1.5
125°	27.2	18.2	10.6	3.0	1.5	1.5	1.5
127.5°	22.7	15.1	7.6	3.0	1.5	1.5	1.5
130°	19.7	12.1	6.1	1.5	1.5	1.5	1.5
132.5°	16.6	9.1	4.5	1.5	1.5	1.5	1.5
135°	13.6	7.6	3.0	1.5	1.5	1.5	1.5
137.5°	10.6	6.1	3.0	1.5	1.5	1.5	1.5
140°	7.6	4.5	1.5	1.5	1.5	1.5	1.5
142.5°	6.1	3.0	1.5	1.5	1.5	1.5	1.5
145°	4.5	3.0	1.5	1.5	1.5	1.5	1.5
147.5°	3.0	3.0	3.0	3.0	1.5	1.5	1.5
150°	3.0	3.0	1.5	1.5	3.0	1.5	1.5
152.5°	3.0	1.5	1.5	1.5	3.0	1.5	1.5
155°	3.0	3.0	3.0	3.0	3.0	3.0	1.5
157.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0
160°	3.0	3.0	3.0	3.0	3.0	3.0	3.0
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)