

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-L940-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-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

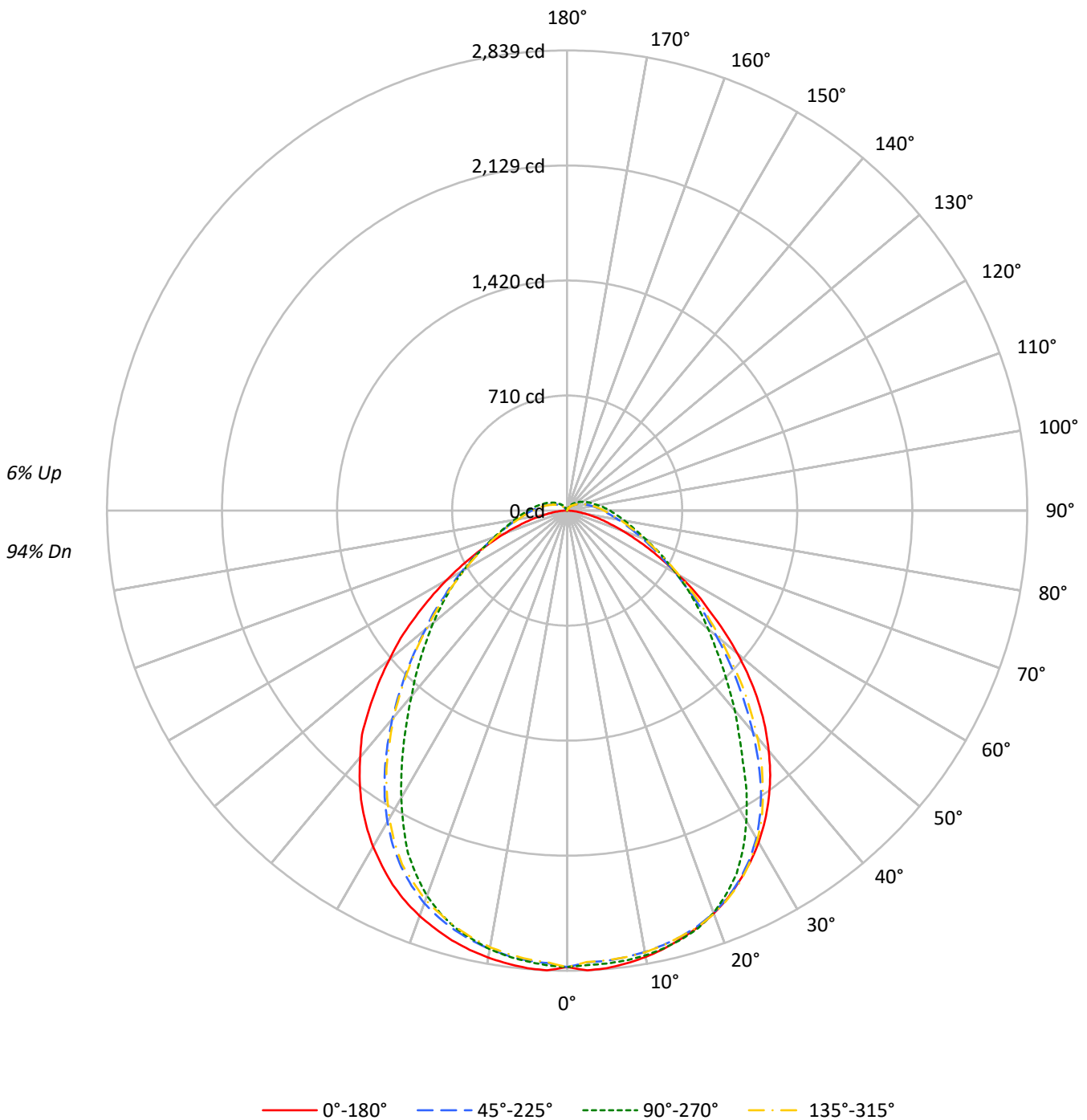
Lumens per Lamp: N/A
Luminaire Lumens: 7127.0 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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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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°	11379	11379	11379	11379
5°	11476	11016	11476	10968
10°	11440	10724	11459	10575
15°	11383	10403	11434	10132
20°	11312	9991	11378	9569
25°	11148	9380	11271	8828
30°	10930	8482	11073	7852
35°	10581	7381	10785	6873
40°	10073	6456	10339	5990
45°	9395	5612	9700	5290
50°	8460	4932	8833	4682
55°	7343	4355	7877	4134
60°	6204	3823	6764	3603
65°	5116	3380	5632	3134
70°	4106	3000	4598	2775
75°	3267	2770	3679	2548
80°	2417	2673	2847	2442
85°	1585	2688	2132	2470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.0	3.7
10°-20°	765.6	10.7
20°-30°	1134.6	15.9
30°-40°	1260.5	17.7
40°-50°	1142.6	16.0
50°-60°	885.4	12.4
60°-70°	601.3	8.4
70°-80°	382.5	5.4
80°-90°	244.6	3.4
90°-100°	164.9	2.3
100°-110°	112.9	1.6
110°-120°	75.3	1.1
120°-130°	46.9	0.7
130°-140°	25.9	0.4
140°-150°	12.2	0.2
150°-160°	4.5	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	2167.2	30.4
0°-40°	3427.7	48.1
0°-60°	5455.8	76.6
0°-90°	6684.1	93.8
90°-120°	353.2	5.0
90°-150°	438.1	6.1
90°-180°	443.0	6.2
0°-180°	7127.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2816	2816	2816	2816	2816	
5°	2833	2805	2833	2793	2833	269
15°	2732	2737	2745	2666	2732	771
25°	2519	2472	2547	2327	2519	1160
35°	2169	1890	2210	1760	2169	1353
45°	1670	1351	1724	1273	1670	1282
55°	1066	950	1143	902	1066	960
65°	553	638	609	592	553	554
75°	222	426	249	392	222	239
85°	40	307	54	282	40	48
90°	0	265	3	242	0	2
95°	2	226	0	211	2	1
105°	2	166	0	156	2	2
115°	2	126	0	116	2	1
125°	2	93	2	82	2	1
135°	2	65	2	53	2	1
145°	2	42	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2
2.5°	2839.4	2836.3	2833.2	2828.6	2833.2	2845.6	2837.9	2820.8	2817.7	2789.8	2802.2
5°	2833.2	2828.6	2825.5	2820.8	2827.0	2842.5	2834.8	2819.3	2814.6	2788.3	2802.2
7.5°	2817.7	2814.6	2810.0	2810.0	2816.2	2831.7	2825.5	2808.4	2805.3	2779.0	2794.5
10°	2796.0	2794.5	2791.4	2791.4	2797.6	2816.2	2808.4	2792.9	2789.8	2765.1	2782.1
12.5°	2768.2	2769.7	2765.1	2765.1	2774.4	2792.9	2786.7	2769.7	2766.6	2744.9	2762.0
15°	2732.5	2734.1	2731.0	2732.5	2741.8	2763.5	2755.8	2740.3	2737.2	2720.1	2734.1
17.5°	2692.3	2693.8	2693.8	2692.3	2703.1	2724.8	2718.6	2704.6	2700.0	2686.1	2703.1
20°	2645.8	2645.8	2645.8	2645.8	2658.2	2679.9	2672.1	2661.3	2652.0	2641.1	2655.1
22.5°	2588.5	2586.9	2588.5	2593.1	2605.5	2622.5	2617.9	2605.5	2591.6	2585.4	2596.2
25°	2518.8	2523.4	2525.0	2529.6	2545.1	2559.0	2554.4	2542.0	2520.3	2515.7	2518.8
27.5°	2446.0	2449.1	2453.7	2452.1	2473.8	2487.8	2478.5	2467.6	2436.7	2432.0	2428.9
30°	2363.9	2368.5	2371.6	2370.0	2387.1	2402.6	2393.3	2379.3	2337.5	2334.4	2309.6
32.5°	2270.9	2275.6	2278.7	2278.7	2303.4	2309.6	2292.6	2272.5	2227.5	2216.7	2195.0
35°	2168.7	2173.3	2174.9	2174.9	2199.7	2198.1	2176.4	2148.5	2099.0	2085.0	2047.8
37.5°	2058.7	2061.8	2063.3	2072.6	2083.5	2074.2	2046.3	2010.7	1973.5	1934.8	1894.5
40°	1934.8	1939.4	1942.5	1948.7	1959.6	1948.7	1908.4	1865.1	1824.8	1781.4	1741.1
42.5°	1807.7	1821.7	1818.6	1817.0	1823.2	1793.8	1762.8	1713.3	1673.0	1628.1	1587.8
45°	1669.9	1668.3	1676.1	1679.2	1677.6	1652.8	1609.5	1564.5	1524.3	1477.8	1443.7
47.5°	1524.3	1522.7	1528.9	1532.0	1522.7	1496.4	1462.3	1411.2	1377.1	1336.8	1310.5
50°	1370.9	1370.9	1380.2	1370.9	1366.3	1339.9	1312.0	1260.9	1234.6	1199.0	1183.5
52.5°	1217.6	1231.5	1222.2	1219.1	1214.5	1188.1	1166.4	1124.6	1102.9	1087.4	1068.8
55°	1065.7	1081.2	1075.0	1070.4	1068.8	1047.2	1027.0	996.0	982.1	971.3	960.4
57.5°	937.2	935.6	932.5	927.9	929.4	912.4	892.3	875.2	869.0	864.4	867.5
60°	788.5	800.9	796.2	797.8	799.3	796.2	779.2	768.3	769.9	771.4	776.1
62.5°	666.1	676.9	684.7	678.5	681.6	686.2	676.9	673.8	680.0	686.2	692.4
65°	553.0	563.9	571.6	570.1	579.3	588.6	587.1	590.2	604.1	611.9	619.6
67.5°	450.8	461.6	472.5	474.0	488.0	501.9	508.1	518.9	534.4	545.3	554.6
70°	362.5	371.8	384.2	391.9	410.5	429.1	439.9	461.6	470.9	486.4	492.6
72.5°	283.5	291.2	308.3	326.8	342.3	365.6	387.3	405.9	419.8	436.8	444.6
75°	221.5	224.6	243.2	264.9	286.6	312.9	336.1	356.3	374.9	391.9	404.3
77.5°	162.7	167.3	184.3	213.8	238.6	266.4	292.8	314.5	334.6	351.6	368.7
80°	113.1	122.4	141.0	170.4	198.3	229.3	254.0	278.8	300.5	317.6	334.6
82.5°	72.8	80.6	106.9	136.3	165.7	196.7	223.1	247.8	271.1	289.7	305.2
85°	40.3	51.1	77.5	108.4	137.9	168.8	196.7	221.5	244.8	261.8	277.3
87.5°	15.5	31.0	55.8	85.2	114.6	144.1	173.5	196.7	220.0	238.6	252.5
90°	0.0	18.6	41.8	71.3	100.7	130.1	158.0	182.8	204.5	221.5	237.0
92.5°	1.5	12.4	32.5	57.3	85.2	113.1	139.4	164.2	185.9	202.9	216.9
95°	1.5	9.3	26.3	49.6	74.4	100.7	125.5	148.7	168.8	185.9	199.8
97.5°	1.5	6.2	21.7	43.4	65.1	91.4	114.6	136.3	154.9	171.9	182.8
100°	1.5	6.2	18.6	37.2	58.9	82.1	103.8	125.5	142.5	156.5	168.8
102.5°	1.5	4.6	15.5	32.5	52.7	72.8	94.5	114.6	130.1	144.1	156.5
105°	1.5	4.6	13.9	27.9	46.5	66.6	85.2	103.8	120.8	133.2	144.1
107.5°	1.5	3.1	12.4	23.2	40.3	60.4	79.0	94.5	110.0	122.4	133.2
110°	1.5	3.1	10.8	21.7	35.6	54.2	71.3	86.7	100.7	113.1	122.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.5	3.1	9.3	20.1	32.5	48.0	65.1	79.0	92.9	103.8	113.1
115°	1.5	3.1	9.3	18.6	29.4	41.8	57.3	72.8	83.6	96.0	103.8
117.5°	1.5	3.1	7.7	15.5	27.9	38.7	52.7	65.1	77.5	88.3	96.0
120°	1.5	3.1	7.7	13.9	24.8	35.6	46.5	58.9	71.3	79.0	86.7
122.5°	1.5	3.1	6.2	13.9	21.7	32.5	41.8	52.7	63.5	72.8	80.6
125°	1.5	3.1	6.2	12.4	20.1	29.4	38.7	46.5	57.3	65.1	72.8
127.5°	1.5	3.1	6.2	10.8	18.6	26.3	35.6	43.4	51.1	58.9	65.1
130°	1.5	3.1	4.6	9.3	17.0	23.2	31.0	40.3	46.5	52.7	58.9
132.5°	1.5	3.1	4.6	9.3	13.9	20.1	27.9	35.6	41.8	48.0	52.7
135°	1.5	3.1	4.6	7.7	12.4	18.6	23.2	31.0	37.2	43.4	48.0
137.5°	1.5	3.1	4.6	7.7	10.8	15.5	20.1	26.3	32.5	37.2	43.4
140°	1.5	3.1	4.6	6.2	9.3	13.9	18.6	21.7	27.9	32.5	37.2
142.5°	1.5	3.1	4.6	6.2	9.3	12.4	15.5	18.6	23.2	27.9	32.5
145°	1.5	3.1	4.6	6.2	7.7	10.8	13.9	17.0	18.6	23.2	26.3
147.5°	1.5	3.1	4.6	6.2	6.2	9.3	12.4	13.9	17.0	18.6	21.7
150°	1.5	3.1	4.6	4.6	6.2	7.7	10.8	12.4	13.9	17.0	18.6
152.5°	1.5	3.1	4.6	4.6	6.2	7.7	9.3	10.8	12.4	13.9	15.5
155°	1.5	3.1	4.6	4.6	4.6	6.2	7.7	9.3	10.8	12.4	13.9
157.5°	3.1	3.1	3.1	4.6	4.6	6.2	6.2	7.7	9.3	9.3	10.8
160°	3.1	3.1	3.1	4.6	4.6	4.6	6.2	6.2	7.7	7.7	9.3
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°	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2
2.5°	2799.1	2803.8	2817.7	2817.7	2814.6	2811.5	2811.5	2806.9	2810.0	2816.2	2813.1
5°	2799.1	2803.8	2817.7	2817.7	2814.6	2811.5	2810.0	2805.3	2810.0	2816.2	2813.1
7.5°	2789.8	2796.0	2810.0	2810.0	2806.9	2805.3	2802.2	2799.1	2803.8	2810.0	2806.9
10°	2777.4	2783.6	2797.6	2797.6	2794.5	2794.5	2789.8	2786.7	2792.9	2797.6	2796.0
12.5°	2758.9	2766.6	2779.0	2777.4	2774.4	2775.9	2771.3	2765.1	2771.3	2775.9	2777.4
15°	2732.5	2741.8	2754.2	2751.1	2746.5	2749.6	2741.8	2737.2	2741.8	2751.1	2749.6
17.5°	2698.4	2704.6	2713.9	2713.9	2709.3	2706.2	2703.1	2698.4	2701.5	2707.7	2709.3
20°	2650.4	2658.2	2662.8	2658.2	2656.6	2652.0	2645.8	2641.1	2647.3	2656.6	2658.2
22.5°	2586.9	2588.5	2599.3	2588.5	2580.7	2579.2	2573.0	2563.7	2573.0	2580.7	2582.3
25°	2507.9	2515.7	2511.0	2492.4	2492.4	2480.0	2476.9	2472.3	2473.8	2487.8	2494.0
27.5°	2407.2	2410.3	2397.9	2382.4	2368.5	2360.8	2349.9	2351.5	2351.5	2370.0	2376.2
30°	2297.2	2280.2	2269.4	2244.6	2233.7	2215.1	2212.0	2212.0	2208.9	2218.2	2246.1
32.5°	2165.6	2142.3	2125.3	2102.1	2083.5	2064.9	2055.6	2060.2	2058.7	2081.9	2091.2
35°	2021.5	2007.6	1971.9	1942.5	1931.7	1903.8	1903.8	1889.8	1899.1	1925.5	1936.3
37.5°	1869.7	1848.0	1818.6	1786.1	1778.3	1756.6	1748.9	1741.1	1761.3	1765.9	1776.8
40°	1714.8	1694.7	1666.8	1635.8	1635.8	1609.5	1609.5	1609.5	1611.0	1620.3	1640.4
42.5°	1567.6	1546.0	1521.2	1499.5	1496.4	1476.2	1476.2	1474.7	1477.8	1485.5	1504.1
45°	1425.1	1408.1	1381.8	1370.9	1372.5	1350.8	1355.4	1350.8	1357.0	1364.7	1370.9
47.5°	1293.5	1282.6	1271.8	1256.3	1251.6	1250.1	1242.3	1236.1	1247.0	1247.0	1256.3
50°	1171.1	1164.9	1158.7	1149.4	1150.9	1144.7	1135.5	1135.5	1143.2	1144.7	1150.9
52.5°	1064.2	1056.5	1048.7	1050.3	1051.8	1048.7	1044.1	1039.4	1044.1	1047.2	1054.9
55°	957.3	951.1	958.9	955.8	958.9	955.8	952.7	949.6	957.3	952.7	960.4
57.5°	861.3	867.5	870.6	864.4	869.0	865.9	867.5	862.8	869.0	872.1	870.6
60°	773.0	782.3	777.6	779.2	785.4	782.3	776.1	780.7	786.9	788.5	786.9
62.5°	692.4	703.3	707.9	704.8	706.4	703.3	707.9	701.7	709.5	712.6	707.9
65°	619.6	632.0	635.1	635.1	635.1	632.0	636.7	638.2	641.3	641.3	638.2
67.5°	557.7	568.5	571.6	574.7	571.6	568.5	568.5	570.1	576.2	579.3	576.2
70°	501.9	512.7	514.3	514.3	515.8	518.9	512.7	515.8	520.5	522.0	520.5
72.5°	453.9	464.7	467.8	466.3	467.8	469.4	469.4	466.3	470.9	474.0	474.0
75°	415.1	421.3	424.4	424.4	426.0	427.5	427.5	426.0	429.1	430.6	432.2
77.5°	379.5	384.2	388.8	388.8	390.4	388.8	391.9	391.9	393.5	395.0	396.6
80°	343.9	350.1	353.2	354.7	357.8	359.4	359.4	359.4	360.9	362.5	362.5
82.5°	316.0	320.7	325.3	329.9	329.9	331.5	331.5	331.5	333.0	333.0	334.6
85°	288.1	294.3	299.0	302.1	303.6	305.2	305.2	306.7	306.7	306.7	308.3
87.5°	263.3	271.1	274.2	277.3	278.8	281.9	281.9	281.9	283.5	283.5	283.5
90°	246.3	254.0	257.1	260.2	261.8	263.3	263.3	264.9	264.9	266.4	266.4
92.5°	226.2	233.9	240.1	240.1	241.7	244.8	243.2	243.2	244.8	246.3	246.3
95°	210.7	216.9	221.5	223.1	224.6	224.6	224.6	226.2	224.6	226.2	226.2
97.5°	192.1	198.3	202.9	206.0	207.6	207.6	207.6	209.1	207.6	209.1	209.1
100°	176.6	182.8	187.4	189.0	192.1	192.1	192.1	192.1	192.1	192.1	193.6
102.5°	164.2	170.4	173.5	175.0	176.6	178.1	178.1	178.1	178.1	179.7	179.7
105°	151.8	158.0	161.1	162.7	164.2	165.7	165.7	165.7	167.3	167.3	165.7
107.5°	141.0	145.6	148.7	151.8	153.4	153.4	154.9	154.9	154.9	154.9	154.9
110°	130.1	134.8	139.4	142.5	142.5	144.1	144.1	145.6	145.6	144.1	145.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	119.3	125.5	128.6	131.7	133.2	134.8	134.8	134.8	134.8	134.8	134.8
115°	110.0	116.2	119.3	122.4	123.9	125.5	125.5	125.5	125.5	125.5	125.5
117.5°	102.2	108.4	111.5	113.1	114.6	116.2	117.7	117.7	117.7	117.7	116.2
120°	94.5	99.1	102.2	105.3	106.9	108.4	108.4	108.4	108.4	108.4	108.4
122.5°	86.7	91.4	94.5	97.6	99.1	100.7	100.7	100.7	100.7	100.7	100.7
125°	79.0	83.6	86.7	89.8	91.4	92.9	92.9	92.9	92.9	92.9	92.9
127.5°	71.3	75.9	80.6	82.1	83.6	85.2	85.2	85.2	86.7	85.2	85.2
130°	63.5	68.2	72.8	74.4	75.9	77.5	79.0	79.0	79.0	79.0	77.5
132.5°	57.3	62.0	65.1	66.6	69.7	69.7	71.3	71.3	71.3	71.3	69.7
135°	52.7	55.8	58.9	60.4	63.5	63.5	63.5	65.1	65.1	63.5	62.0
137.5°	46.5	49.6	52.7	54.2	55.8	57.3	57.3	58.9	57.3	57.3	57.3
140°	43.4	44.9	48.0	49.6	51.1	51.1	51.1	52.7	52.7	51.1	51.1
142.5°	37.2	40.3	43.4	44.9	46.5	46.5	46.5	46.5	46.5	46.5	46.5
145°	31.0	35.6	37.2	40.3	40.3	41.8	41.8	41.8	41.8	41.8	40.3
147.5°	26.3	29.4	34.1	35.6	35.6	37.2	37.2	37.2	37.2	37.2	35.6
150°	20.1	23.2	27.9	31.0	31.0	32.5	32.5	32.5	32.5	31.0	31.0
152.5°	17.0	20.1	21.7	24.8	26.3	26.3	26.3	27.9	26.3	26.3	26.3
155°	15.5	17.0	18.6	20.1	21.7	23.2	23.2	23.2	23.2	21.7	21.7
157.5°	12.4	13.9	15.5	17.0	18.6	20.1	20.1	20.1	20.1	20.1	18.6
160°	9.3	10.8	12.4	12.4	13.9	15.5	17.0	15.5	15.5	15.5	15.5
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2
2.5°	2810.0	2808.4	2813.1	2805.3	2782.1	2788.3	2785.2	2799.1	2802.2	2805.3	2819.3
5°	2810.0	2808.4	2811.5	2805.3	2780.5	2785.2	2782.1	2796.0	2799.1	2800.7	2814.6
7.5°	2803.8	2802.2	2806.9	2799.1	2772.8	2779.0	2774.4	2788.3	2789.8	2791.4	2803.8
10°	2791.4	2789.8	2792.9	2786.7	2760.4	2766.6	2760.4	2774.4	2774.4	2777.4	2786.7
12.5°	2772.8	2769.7	2775.9	2768.2	2738.7	2746.5	2743.4	2752.7	2754.2	2755.8	2765.1
15°	2746.5	2743.4	2748.0	2743.4	2717.0	2718.6	2713.9	2727.9	2729.4	2726.3	2735.6
17.5°	2707.7	2704.6	2713.9	2710.8	2684.5	2690.7	2689.2	2692.3	2696.9	2689.2	2701.5
20°	2659.7	2662.8	2665.9	2667.5	2647.3	2647.3	2645.8	2652.0	2656.6	2650.4	2659.7
22.5°	2588.5	2596.2	2605.5	2608.6	2594.7	2593.1	2602.4	2599.3	2604.0	2600.9	2607.1
25°	2498.6	2514.1	2523.4	2532.7	2525.0	2528.1	2542.0	2545.1	2545.1	2543.5	2549.7
27.5°	2387.1	2407.2	2424.3	2444.4	2436.7	2442.9	2466.1	2469.2	2475.4	2469.2	2481.6
30°	2253.9	2272.5	2305.0	2334.4	2337.5	2346.8	2379.3	2382.4	2399.5	2393.3	2397.9
32.5°	2120.7	2129.9	2167.1	2196.6	2215.1	2238.4	2274.0	2280.2	2303.4	2308.1	2308.1
35°	1953.4	1979.7	2013.8	2055.6	2078.8	2103.6	2151.6	2160.9	2195.0	2205.8	2218.2
37.5°	1812.4	1837.2	1858.9	1902.2	1944.1	1971.9	2010.7	2033.9	2069.5	2089.7	2105.2
40°	1662.1	1682.3	1705.5	1748.9	1784.5	1826.3	1865.1	1892.9	1937.9	1961.1	1981.2
42.5°	1519.6	1535.1	1559.9	1590.9	1628.1	1674.5	1711.7	1744.2	1792.3	1824.8	1848.0
45°	1392.6	1401.9	1423.6	1446.8	1479.3	1527.4	1563.0	1604.8	1643.5	1677.6	1705.5
47.5°	1273.3	1285.7	1296.6	1312.0	1341.5	1370.9	1412.7	1453.0	1491.7	1528.9	1556.8
50°	1163.3	1163.3	1180.4	1191.2	1211.4	1237.7	1270.2	1298.1	1346.1	1372.5	1408.1
52.5°	1056.5	1062.6	1071.9	1078.1	1093.6	1110.7	1137.0	1160.2	1200.5	1225.3	1259.4
55°	962.0	968.2	972.8	975.9	985.2	1005.3	1014.6	1033.2	1061.1	1081.2	1110.7
57.5°	872.1	875.2	879.9	881.4	883.0	895.4	903.1	907.7	935.6	955.8	980.5
60°	790.0	790.0	794.7	793.1	791.6	797.8	796.2	800.9	817.9	830.3	841.1
62.5°	712.6	712.6	714.1	711.0	709.5	709.5	703.3	707.9	712.6	714.1	721.9
65°	641.3	649.1	642.9	644.4	635.1	632.0	628.9	619.6	618.1	611.9	615.0
67.5°	577.8	584.0	577.8	577.8	570.1	563.9	556.1	540.6	536.0	523.6	520.5
70°	526.7	522.0	525.1	520.5	511.2	503.4	492.6	480.2	464.7	449.2	438.4
72.5°	477.1	477.1	474.0	469.4	464.7	449.2	436.8	422.9	404.3	384.2	368.7
75°	429.1	430.6	430.6	426.0	418.2	404.3	390.4	370.2	350.1	326.8	306.7
77.5°	395.0	395.0	395.0	387.3	379.5	367.1	350.1	328.4	306.7	278.8	255.6
80°	362.5	360.9	360.9	351.6	343.9	329.9	312.9	291.2	268.0	238.6	212.2
82.5°	336.1	334.6	331.5	323.8	312.9	299.0	281.9	258.7	233.9	207.6	175.0
85°	308.3	306.7	303.6	295.9	285.0	272.6	254.0	230.8	206.0	176.6	145.6
87.5°	283.5	281.9	277.3	272.6	260.2	246.3	227.7	206.0	179.7	151.8	120.8
90°	266.4	263.3	260.2	254.0	243.2	227.7	209.1	185.9	159.6	131.7	100.7
92.5°	246.3	244.8	240.1	233.9	224.6	209.1	190.5	168.8	142.5	116.2	86.7
95°	226.2	224.6	221.5	215.3	206.0	192.1	175.0	153.4	128.6	102.2	75.9
97.5°	207.6	207.6	202.9	198.3	187.4	176.6	159.6	139.4	116.2	92.9	68.2
100°	192.1	192.1	187.4	181.2	173.5	162.7	145.6	127.0	105.3	83.6	58.9
102.5°	178.1	176.6	173.5	167.3	159.6	148.7	133.2	116.2	96.0	74.4	52.7
105°	165.7	164.2	161.1	154.9	148.7	136.3	123.9	106.9	86.7	66.6	46.5
107.5°	153.4	151.8	150.3	144.1	136.3	125.5	113.1	96.0	79.0	60.4	41.8
110°	142.5	141.0	137.9	131.7	123.9	114.6	102.2	88.3	71.3	54.2	37.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	133.2	131.7	128.6	122.4	116.2	105.3	94.5	79.0	65.1	49.6	32.5
115°	123.9	122.4	119.3	113.1	105.3	96.0	85.2	72.8	57.3	43.4	29.4
117.5°	114.6	113.1	110.0	105.3	97.6	88.3	77.5	65.1	51.1	40.3	26.3
120°	106.9	103.8	100.7	96.0	88.3	80.6	69.7	58.9	46.5	35.6	23.2
122.5°	99.1	96.0	92.9	88.3	80.6	72.8	62.0	52.7	43.4	32.5	21.7
125°	89.8	88.3	85.2	80.6	72.8	65.1	57.3	48.0	38.7	29.4	18.6
127.5°	82.1	80.6	77.5	71.3	65.1	58.9	51.1	43.4	34.1	24.8	17.0
130°	75.9	72.8	69.7	65.1	60.4	54.2	46.5	38.7	31.0	21.7	15.5
132.5°	68.2	65.1	62.0	58.9	54.2	48.0	41.8	34.1	27.9	20.1	13.9
135°	62.0	58.9	55.8	52.7	48.0	43.4	37.2	31.0	24.8	18.6	12.4
137.5°	54.2	52.7	51.1	48.0	43.4	38.7	34.1	26.3	21.7	17.0	10.8
140°	49.6	48.0	46.5	41.8	38.7	34.1	29.4	23.2	18.6	13.9	9.3
142.5°	44.9	43.4	40.3	37.2	34.1	31.0	24.8	21.7	17.0	12.4	9.3
145°	38.7	37.2	35.6	32.5	29.4	24.8	21.7	18.6	15.5	10.8	7.7
147.5°	35.6	34.1	31.0	27.9	24.8	21.7	20.1	17.0	12.4	9.3	6.2
150°	29.4	27.9	26.3	23.2	21.7	20.1	17.0	13.9	10.8	7.7	6.2
152.5°	24.8	23.2	21.7	21.7	18.6	17.0	13.9	12.4	9.3	7.7	4.6
155°	21.7	21.7	20.1	18.6	15.5	13.9	12.4	9.3	7.7	6.2	4.6
157.5°	18.6	17.0	15.5	15.5	13.9	12.4	9.3	7.7	6.2	6.2	4.6
160°	15.5	13.9	13.9	12.4	10.8	9.3	7.7	7.7	6.2	4.6	4.6
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2
2.5°	2820.8	2803.8	2819.3	2839.4	2839.4	2836.3	2833.2	2839.4	2854.9	2848.7	2830.1
5°	2816.2	2799.1	2813.1	2833.2	2833.2	2828.6	2825.5	2830.1	2847.2	2839.4	2822.4
7.5°	2806.9	2791.4	2800.7	2819.3	2819.3	2814.6	2811.5	2817.7	2831.7	2823.9	2805.3
10°	2789.8	2772.8	2783.6	2800.7	2799.1	2796.0	2791.4	2799.1	2811.5	2800.7	2779.0
12.5°	2768.2	2751.1	2760.4	2775.9	2774.4	2768.2	2765.1	2769.7	2780.5	2774.4	2751.1
15°	2738.7	2721.7	2729.4	2744.9	2740.3	2735.6	2729.4	2731.0	2744.9	2734.1	2709.3
17.5°	2703.1	2684.5	2690.7	2704.6	2700.0	2695.3	2687.6	2689.2	2704.6	2689.2	2662.8
20°	2659.7	2639.6	2644.2	2661.3	2653.5	2645.8	2638.0	2638.0	2653.5	2636.5	2607.1
22.5°	2613.2	2593.1	2596.2	2608.6	2602.4	2588.5	2580.7	2585.4	2593.1	2571.4	2540.4
25°	2555.9	2529.6	2534.2	2546.6	2542.0	2523.4	2515.7	2518.8	2515.7	2498.6	2466.1
27.5°	2489.3	2461.4	2464.5	2472.3	2466.1	2449.1	2439.8	2441.3	2435.1	2413.4	2376.2
30°	2405.7	2391.7	2390.2	2394.8	2385.5	2368.5	2357.7	2354.6	2353.0	2322.0	2277.1
32.5°	2320.5	2308.1	2300.3	2306.5	2295.7	2278.7	2260.1	2260.1	2244.6	2215.1	2176.4
35°	2233.7	2213.6	2205.8	2210.5	2198.1	2176.4	2160.9	2153.2	2129.9	2092.8	2050.9
37.5°	2122.2	2108.3	2099.0	2103.6	2089.7	2074.2	2044.7	2037.0	2012.2	1961.1	1908.4
40°	2001.4	1990.5	1981.2	1985.9	1970.4	1947.2	1920.8	1908.4	1880.5	1823.2	1781.4
42.5°	1871.3	1866.6	1855.8	1872.8	1841.8	1818.6	1792.3	1772.1	1744.2	1682.3	1634.2
45°	1733.4	1744.2	1719.4	1724.1	1704.0	1683.8	1655.9	1626.5	1598.6	1539.8	1485.5
47.5°	1587.8	1595.5	1578.5	1581.6	1559.9	1541.3	1516.5	1479.3	1448.4	1397.2	1349.2
50°	1437.5	1434.4	1434.4	1431.3	1414.3	1391.0	1366.3	1332.2	1301.2	1254.7	1214.5
52.5°	1278.0	1284.2	1287.3	1295.0	1273.3	1259.4	1220.7	1191.2	1168.0	1120.0	1085.9
55°	1124.6	1146.3	1140.1	1143.2	1118.4	1107.6	1076.6	1053.4	1019.3	991.4	969.7
57.5°	985.2	989.8	992.9	997.6	986.7	965.1	940.3	921.7	895.4	872.1	856.6
60°	850.4	850.4	852.0	859.7	848.9	830.3	811.7	797.8	779.2	765.2	755.9
62.5°	723.4	734.3	735.8	729.6	715.7	706.4	694.0	686.2	673.8	669.2	666.1
65°	605.7	605.7	605.7	608.8	601.0	594.8	587.1	585.5	590.2	584.0	587.1
67.5°	506.5	501.9	498.8	500.3	497.2	494.1	492.6	497.2	506.5	506.5	514.3
70°	421.3	412.0	405.9	405.9	405.9	407.4	412.0	421.3	436.8	443.0	453.9
72.5°	351.6	331.5	322.2	322.2	323.8	329.9	343.9	360.9	374.9	387.3	401.2
75°	285.0	264.9	250.9	249.4	252.5	261.8	281.9	297.4	320.7	337.7	354.7
77.5°	230.8	206.0	189.0	187.4	192.1	206.0	230.8	250.9	277.3	295.9	314.5
80°	184.3	156.5	142.5	133.2	141.0	158.0	185.9	210.7	235.5	260.2	283.5
82.5°	147.2	120.8	99.1	89.8	99.1	122.4	148.7	178.1	202.9	229.3	252.5
85°	116.2	88.3	63.5	54.2	65.1	89.8	119.3	148.7	176.6	202.9	226.2
87.5°	91.4	63.5	38.7	26.3	40.3	66.6	94.5	123.9	153.4	179.7	202.9
90°	71.3	44.9	21.7	3.1	23.2	48.0	75.9	103.8	133.2	159.6	182.8
92.5°	60.4	34.1	12.4	0.0	13.9	35.6	62.0	89.8	116.2	142.5	165.7
95°	51.1	27.9	9.3	0.0	9.3	27.9	51.1	75.9	102.2	128.6	151.8
97.5°	43.4	21.7	6.2	0.0	6.2	21.7	41.8	66.6	89.8	114.6	136.3
100°	37.2	18.6	4.6	0.0	4.6	17.0	35.6	57.3	80.6	103.8	123.9
102.5°	32.5	15.5	3.1	0.0	3.1	13.9	29.4	49.6	69.7	91.4	111.5
105°	27.9	12.4	3.1	0.0	1.5	10.8	24.8	43.4	62.0	82.1	100.7
107.5°	24.8	10.8	3.1	0.0	1.5	9.3	21.7	37.2	55.8	72.8	89.8
110°	21.7	9.3	3.1	0.0	1.5	6.2	18.6	32.5	48.0	65.1	82.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	18.6	7.7	1.5	0.0	0.0	4.6	15.5	27.9	41.8	58.9	72.8
115°	17.0	7.7	1.5	0.0	0.0	3.1	12.4	24.8	37.2	52.7	65.1
117.5°	15.5	6.2	1.5	0.0	1.5	3.1	10.8	21.7	32.5	44.9	58.9
120°	13.9	6.2	1.5	0.0	1.5	1.5	7.7	18.6	27.9	40.3	51.1
122.5°	12.4	6.2	1.5	0.0	1.5	1.5	6.2	15.5	24.8	35.6	44.9
125°	10.8	4.6	3.1	1.5	1.5	1.5	4.6	12.4	21.7	29.4	40.3
127.5°	10.8	4.6	3.1	1.5	1.5	1.5	3.1	10.8	17.0	26.3	35.6
130°	9.3	4.6	3.1	1.5	1.5	1.5	1.5	7.7	15.5	21.7	29.4
132.5°	7.7	4.6	3.1	1.5	1.5	1.5	1.5	4.6	10.8	18.6	24.8
135°	7.7	4.6	3.1	1.5	1.5	1.5	1.5	3.1	7.7	13.9	20.1
137.5°	6.2	3.1	3.1	1.5	1.5	1.5	1.5	1.5	6.2	10.8	15.5
140°	6.2	3.1	3.1	1.5	1.5	1.5	1.5	1.5	4.6	7.7	12.4
142.5°	4.6	3.1	3.1	1.5	1.5	1.5	1.5	1.5	3.1	6.2	9.3
145°	4.6	3.1	3.1	1.5	1.5	1.5	1.5	1.5	1.5	3.1	6.2
147.5°	4.6	4.6	3.1	1.5	1.5	1.5	1.5	1.5	1.5	3.1	4.6
150°	4.6	3.1	3.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.1
152.5°	4.6	3.1	3.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.1
155°	4.6	3.1	3.1	1.5	1.5	1.5	1.5	1.5	1.5	3.1	3.1
157.5°	4.6	3.1	3.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.1
160°	4.6	3.1	3.1	1.5	3.1	1.5	3.1	3.1	3.1	3.1	3.1
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2
2.5°	2823.9	2794.5	2810.0	2805.3	2811.5	2823.9	2822.4	2819.3	2819.3	2814.6	2808.4
5°	2814.6	2786.7	2800.7	2792.9	2800.7	2811.5	2810.0	2805.3	2808.4	2800.7	2792.9
7.5°	2796.0	2771.3	2783.6	2777.4	2783.6	2794.5	2789.8	2788.3	2791.4	2779.0	2774.4
10°	2774.4	2746.5	2760.4	2752.7	2760.4	2768.2	2765.1	2758.9	2765.1	2752.7	2748.0
12.5°	2740.3	2717.0	2726.3	2723.2	2727.9	2735.6	2729.4	2724.8	2727.9	2717.0	2707.7
15°	2703.1	2679.9	2687.6	2683.0	2686.1	2695.3	2684.5	2683.0	2679.9	2669.0	2665.9
17.5°	2655.1	2633.4	2641.1	2633.4	2638.0	2634.9	2633.4	2625.6	2625.6	2613.2	2604.0
20°	2596.2	2577.6	2573.0	2566.8	2573.0	2566.8	2557.5	2551.3	2549.7	2537.3	2529.6
22.5°	2528.1	2506.4	2509.5	2492.4	2494.0	2484.7	2469.2	2463.0	2456.8	2442.9	2432.0
25°	2446.0	2424.3	2408.8	2397.9	2384.0	2382.4	2362.3	2346.8	2345.3	2328.2	2326.7
27.5°	2353.0	2328.2	2315.8	2289.5	2272.5	2258.5	2241.5	2226.0	2218.2	2199.7	2187.3
30°	2246.1	2218.2	2187.3	2168.7	2142.3	2131.5	2102.1	2083.5	2077.3	2057.1	2047.8
32.5°	2125.3	2095.9	2071.1	2035.5	2006.0	1990.5	1961.1	1942.5	1934.8	1913.1	1900.7
35°	1993.6	1961.1	1931.7	1897.6	1874.4	1848.0	1812.4	1793.8	1776.8	1769.0	1759.7
37.5°	1855.8	1820.1	1786.1	1752.0	1731.8	1700.9	1669.9	1657.5	1637.3	1629.6	1620.3
40°	1713.3	1677.6	1645.1	1612.6	1589.3	1561.4	1533.6	1528.9	1507.2	1499.5	1493.3
42.5°	1572.3	1535.1	1497.9	1474.7	1457.7	1429.8	1411.2	1406.5	1388.0	1383.3	1383.3
45°	1445.3	1398.8	1367.8	1347.7	1333.7	1310.5	1295.0	1291.9	1276.4	1273.3	1273.3
47.5°	1308.9	1265.6	1242.3	1229.9	1217.6	1200.5	1191.2	1191.2	1175.7	1172.6	1171.1
50°	1181.9	1141.7	1124.6	1112.2	1110.7	1098.3	1090.5	1087.4	1087.4	1076.6	1078.1
52.5°	1061.1	1041.0	1027.0	1019.3	1010.0	1002.2	996.0	996.0	991.4	983.6	986.7
55°	949.6	926.3	927.9	921.7	917.0	912.4	913.9	904.6	903.1	896.9	901.5
57.5°	838.0	838.0	834.9	830.3	822.5	825.6	825.6	825.6	817.9	813.3	817.9
60°	743.5	748.2	740.4	745.1	742.0	743.5	740.4	740.4	735.8	734.3	735.8
62.5°	659.9	667.6	664.5	670.7	667.6	669.2	672.3	666.1	663.0	659.9	663.0
65°	585.5	594.8	593.3	597.9	599.5	601.0	602.6	599.5	596.4	593.3	591.7
67.5°	520.5	529.8	536.0	537.5	539.1	543.7	542.2	539.1	536.0	531.3	529.8
70°	461.6	474.0	481.8	484.9	491.0	488.0	488.0	486.4	483.3	478.7	477.1
72.5°	412.0	426.0	433.7	436.8	443.0	443.0	441.5	439.9	436.8	432.2	430.6
75°	368.7	381.1	391.9	398.1	402.8	402.8	401.2	399.7	396.6	393.5	391.9
77.5°	334.6	345.4	354.7	362.5	365.6	367.1	365.6	362.5	362.5	360.9	359.4
80°	300.5	312.9	322.2	329.9	334.6	334.6	333.0	334.6	331.5	329.9	328.4
82.5°	271.1	285.0	295.9	303.6	306.7	308.3	306.7	308.3	305.2	305.2	305.2
85°	244.8	258.7	271.1	277.3	281.9	283.5	283.5	283.5	281.9	281.9	281.9
87.5°	223.1	237.0	249.4	255.6	260.2	261.8	261.8	263.3	260.2	260.2	260.2
90°	202.9	216.9	229.3	235.5	240.1	243.2	243.2	244.8	243.2	241.7	241.7
92.5°	184.3	199.8	212.2	218.4	223.1	227.7	227.7	229.3	226.2	226.2	226.2
95°	168.8	184.3	195.2	202.9	207.6	210.7	212.2	212.2	210.7	210.7	210.7
97.5°	154.9	168.8	179.7	187.4	192.1	193.6	195.2	196.7	195.2	195.2	195.2
100°	141.0	154.9	165.7	171.9	178.1	179.7	181.2	182.8	182.8	181.2	181.2
102.5°	128.6	142.5	151.8	159.6	164.2	167.3	168.8	168.8	168.8	168.8	168.8
105°	116.2	130.1	139.4	147.2	151.8	154.9	156.5	158.0	158.0	156.5	156.5
107.5°	105.3	117.7	128.6	134.8	141.0	144.1	145.6	145.6	147.2	145.6	145.6
110°	94.5	108.4	117.7	123.9	130.1	133.2	134.8	136.3	136.3	136.3	136.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	86.7	97.6	106.9	113.1	119.3	122.4	123.9	125.5	127.0	125.5	125.5
115°	77.5	88.3	97.6	103.8	108.4	111.5	114.6	116.2	116.2	117.7	116.2
117.5°	69.7	79.0	88.3	94.5	99.1	103.8	105.3	106.9	108.4	106.9	106.9
120°	62.0	71.3	79.0	85.2	89.8	94.5	96.0	97.6	99.1	97.6	97.6
122.5°	55.8	63.5	71.3	77.5	82.1	85.2	88.3	88.3	89.8	89.8	89.8
125°	49.6	57.3	63.5	69.7	74.4	77.5	79.0	80.6	80.6	82.1	82.1
127.5°	43.4	49.6	57.3	62.0	66.6	69.7	71.3	72.8	72.8	74.4	74.4
130°	37.2	43.4	49.6	54.2	58.9	62.0	63.5	65.1	66.6	66.6	66.6
132.5°	32.5	38.7	43.4	48.0	51.1	54.2	57.3	58.9	58.9	58.9	58.9
135°	26.3	32.5	37.2	41.8	44.9	48.0	49.6	52.7	52.7	52.7	52.7
137.5°	21.7	27.9	32.5	35.6	38.7	41.8	43.4	44.9	46.5	46.5	46.5
140°	17.0	21.7	26.3	31.0	34.1	35.6	38.7	38.7	40.3	40.3	40.3
142.5°	12.4	17.0	20.1	24.8	27.9	31.0	32.5	34.1	34.1	34.1	34.1
145°	9.3	12.4	15.5	18.6	23.2	24.8	26.3	27.9	29.4	29.4	29.4
147.5°	6.2	9.3	10.8	13.9	17.0	20.1	21.7	23.2	24.8	24.8	24.8
150°	4.6	6.2	9.3	10.8	12.4	15.5	18.6	18.6	20.1	20.1	18.6
152.5°	3.1	4.6	6.2	7.7	9.3	10.8	13.9	13.9	15.5	15.5	15.5
155°	3.1	3.1	3.1	4.6	6.2	7.7	9.3	10.8	10.8	10.8	10.8
157.5°	3.1	3.1	3.1	3.1	3.1	4.6	6.2	7.7	7.7	7.7	7.7
160°	3.1	3.1	1.5	1.5	3.1	3.1	3.1	3.1	4.6	4.6	4.6
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2
2.5°	2813.1	2816.2	2816.2	2813.1	2811.5	2817.7	2810.0	2780.5	2789.8	2792.9	2802.2
5°	2799.1	2802.2	2802.2	2802.2	2799.1	2805.3	2797.6	2768.2	2779.0	2783.6	2789.8
7.5°	2779.0	2780.5	2783.6	2782.1	2779.0	2788.3	2780.5	2751.1	2758.9	2766.6	2774.4
10°	2752.7	2752.7	2754.2	2757.3	2754.2	2762.0	2754.2	2727.9	2735.6	2740.3	2749.6
12.5°	2717.0	2720.1	2721.7	2720.1	2718.6	2724.8	2721.7	2696.9	2700.0	2709.3	2718.6
15°	2669.0	2669.0	2676.8	2673.7	2673.7	2679.9	2683.0	2655.1	2659.7	2673.7	2683.0
17.5°	2610.2	2611.7	2617.9	2621.0	2619.4	2630.3	2631.8	2610.2	2608.6	2625.6	2634.9
20°	2534.2	2537.3	2545.1	2551.3	2551.3	2563.7	2568.3	2554.4	2555.9	2574.5	2577.6
22.5°	2441.3	2441.3	2455.2	2464.5	2472.3	2480.0	2494.0	2481.6	2481.6	2506.4	2520.3
25°	2326.7	2337.5	2342.2	2360.8	2371.6	2393.3	2405.7	2407.2	2408.8	2432.0	2441.3
27.5°	2199.7	2202.8	2216.7	2238.4	2250.8	2270.9	2294.1	2298.8	2306.5	2337.5	2351.5
30°	2055.6	2064.9	2071.1	2102.1	2119.1	2145.4	2174.9	2185.7	2191.9	2233.7	2250.8
32.5°	1908.4	1911.5	1937.9	1954.9	1975.0	2002.9	2037.0	2057.1	2069.5	2112.9	2137.7
35°	1761.3	1767.5	1789.2	1810.8	1831.0	1858.9	1894.5	1922.4	1944.1	1982.8	2015.3
37.5°	1626.5	1642.0	1646.6	1668.3	1683.8	1711.7	1736.5	1776.8	1798.4	1838.7	1880.5
40°	1505.7	1510.3	1513.4	1535.1	1546.0	1572.3	1607.9	1634.2	1663.7	1693.1	1742.7
42.5°	1386.4	1389.5	1394.1	1406.5	1418.9	1437.5	1463.9	1490.2	1521.2	1564.5	1597.1
45°	1276.4	1279.5	1282.6	1290.4	1301.2	1318.2	1335.3	1353.9	1384.9	1422.0	1456.1
47.5°	1174.2	1180.4	1180.4	1181.9	1189.7	1203.6	1216.0	1239.2	1256.3	1276.4	1315.1
50°	1076.6	1081.2	1082.8	1082.8	1087.4	1096.7	1099.8	1115.3	1130.8	1149.4	1177.3
52.5°	985.2	985.2	983.6	989.8	989.8	996.0	997.6	1006.9	1017.7	1037.9	1050.3
55°	898.4	898.4	903.1	900.0	900.0	903.1	901.5	903.1	912.4	924.8	935.6
57.5°	814.8	813.3	817.9	814.8	813.3	816.4	819.4	813.3	814.8	827.2	827.2
60°	731.2	732.7	737.3	734.3	734.3	734.3	731.2	728.1	725.0	732.7	735.8
62.5°	664.5	659.9	664.5	659.9	663.0	661.4	658.3	652.2	653.7	650.6	647.5
65°	594.8	594.8	596.4	591.7	594.8	594.8	590.2	588.6	579.3	576.2	568.5
67.5°	534.4	534.4	536.0	532.9	532.9	534.4	529.8	525.1	515.8	511.2	500.3
70°	481.8	481.8	481.8	480.2	480.2	480.2	477.1	470.9	461.6	453.9	439.9
72.5°	433.7	435.3	433.7	433.7	438.4	433.7	429.1	422.9	415.1	399.7	387.3
75°	395.0	396.6	395.0	395.0	395.0	393.5	391.9	382.6	373.3	360.9	342.3
77.5°	360.9	360.9	362.5	360.9	360.9	359.4	354.7	347.0	336.1	325.3	303.6
80°	328.4	329.9	331.5	333.0	329.9	328.4	323.8	317.6	303.6	291.2	269.5
82.5°	305.2	303.6	305.2	306.7	303.6	302.1	297.4	289.7	278.8	261.8	240.1
85°	281.9	280.4	280.4	281.9	280.4	277.3	272.6	264.9	254.0	237.0	215.3
87.5°	258.7	260.2	261.8	260.2	258.7	255.6	250.9	243.2	230.8	216.9	193.6
90°	241.7	241.7	241.7	241.7	240.1	237.0	232.4	223.1	212.2	195.2	175.0
92.5°	226.2	226.2	226.2	226.2	224.6	220.0	215.3	207.6	195.2	178.1	159.6
95°	210.7	212.2	210.7	210.7	207.6	206.0	198.3	190.5	179.7	162.7	142.5
97.5°	193.6	195.2	193.6	193.6	192.1	189.0	184.3	175.0	164.2	148.7	130.1
100°	181.2	181.2	179.7	179.7	178.1	175.0	168.8	161.1	150.3	134.8	116.2
102.5°	167.3	168.8	167.3	167.3	164.2	161.1	156.5	148.7	137.9	122.4	105.3
105°	156.5	156.5	154.9	154.9	151.8	148.7	144.1	134.8	125.5	111.5	94.5
107.5°	145.6	145.6	144.1	144.1	141.0	137.9	131.7	123.9	114.6	100.7	85.2
110°	134.8	134.8	134.8	133.2	130.1	125.5	120.8	113.1	103.8	91.4	75.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	127.0	125.5	123.9	122.4	119.3	116.2	110.0	102.2	92.9	82.1	68.2
115°	116.2	116.2	114.6	113.1	110.0	105.3	100.7	94.5	85.2	72.8	60.4
117.5°	106.9	106.9	105.3	103.8	100.7	96.0	91.4	85.2	75.9	65.1	54.2
120°	97.6	97.6	96.0	94.5	91.4	86.7	83.6	75.9	68.2	57.3	48.0
122.5°	89.8	88.3	88.3	85.2	83.6	79.0	74.4	68.2	60.4	51.1	41.8
125°	80.6	80.6	79.0	77.5	75.9	71.3	66.6	60.4	52.7	44.9	37.2
127.5°	72.8	72.8	71.3	69.7	68.2	63.5	58.9	54.2	46.5	38.7	31.0
130°	65.1	65.1	63.5	62.0	60.4	55.8	52.7	46.5	40.3	34.1	26.3
132.5°	58.9	58.9	57.3	55.8	52.7	49.6	46.5	40.3	35.6	29.4	23.2
135°	52.7	51.1	51.1	49.6	46.5	43.4	40.3	35.6	29.4	24.8	18.6
137.5°	46.5	44.9	43.4	41.8	40.3	37.2	34.1	31.0	26.3	20.1	15.5
140°	40.3	38.7	38.7	37.2	34.1	32.5	29.4	24.8	21.7	17.0	12.4
142.5°	34.1	34.1	32.5	31.0	29.4	27.9	24.8	21.7	17.0	13.9	9.3
145°	29.4	27.9	27.9	26.3	24.8	21.7	20.1	17.0	13.9	10.8	7.7
147.5°	23.2	23.2	23.2	21.7	20.1	18.6	17.0	13.9	10.8	7.7	4.6
150°	18.6	18.6	18.6	17.0	15.5	13.9	12.4	10.8	7.7	4.6	3.1
152.5°	15.5	15.5	13.9	13.9	12.4	10.8	9.3	7.7	4.6	3.1	3.1
155°	10.8	10.8	10.8	9.3	9.3	7.7	6.2	4.6	3.1	3.1	3.1
157.5°	7.7	7.7	7.7	6.2	6.2	4.6	4.6	3.1	3.1	3.1	3.1
160°	4.6	4.6	4.6	4.6	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2
2.5°	2797.6	2796.0	2808.4	2808.4	2794.5	2816.2	2839.4
5°	2788.3	2786.7	2799.1	2799.1	2786.7	2808.4	2833.2
7.5°	2769.7	2771.3	2783.6	2786.7	2771.3	2791.4	2817.7
10°	2749.6	2748.0	2762.0	2765.1	2752.7	2771.3	2796.0
12.5°	2717.0	2717.0	2731.0	2735.6	2723.2	2744.9	2768.2
15°	2683.0	2683.0	2692.3	2700.0	2689.2	2709.3	2732.5
17.5°	2639.6	2638.0	2647.3	2656.6	2645.8	2667.5	2692.3
20°	2583.8	2583.8	2594.7	2605.5	2597.8	2617.9	2645.8
22.5°	2525.0	2518.8	2537.3	2545.1	2540.4	2560.6	2588.5
25°	2450.6	2449.1	2467.6	2478.5	2472.3	2494.0	2518.8
27.5°	2370.0	2368.5	2387.1	2401.0	2397.9	2418.1	2446.0
30°	2272.5	2280.2	2297.2	2320.5	2312.7	2334.4	2363.9
32.5°	2170.2	2178.0	2198.1	2222.9	2224.4	2241.5	2270.9
35°	2047.8	2068.0	2081.9	2114.5	2120.7	2137.7	2168.7
37.5°	1919.3	1942.5	1971.9	1996.7	2009.1	2023.1	2058.7
40°	1775.2	1809.3	1841.8	1871.3	1886.7	1900.7	1934.8
42.5°	1645.1	1671.4	1702.4	1731.8	1759.7	1772.1	1807.7
45°	1497.9	1528.9	1556.8	1592.4	1620.3	1634.2	1669.9
47.5°	1353.9	1384.9	1422.0	1446.8	1476.2	1490.2	1524.3
50°	1216.0	1243.9	1274.9	1304.3	1329.1	1341.5	1370.9
52.5°	1079.7	1109.1	1138.6	1157.1	1183.5	1192.8	1217.6
55°	958.9	979.0	1005.3	1016.2	1042.5	1048.7	1065.7
57.5°	842.7	856.6	865.9	884.5	903.1	917.0	937.2
60°	737.3	743.5	749.7	760.6	776.1	780.7	788.5
62.5°	642.9	641.3	653.7	656.8	658.3	673.8	666.1
65°	559.2	560.8	549.9	545.3	551.5	556.1	553.0
67.5°	489.5	480.2	470.9	460.1	450.8	455.4	450.8
70°	421.3	413.6	398.1	382.6	376.4	367.1	362.5
72.5°	367.1	348.5	333.0	312.9	302.1	291.2	283.5
75°	325.3	299.0	277.3	255.6	240.1	224.6	221.5
77.5°	281.9	257.1	232.4	209.1	185.9	168.8	162.7
80°	247.8	224.6	195.2	167.3	142.5	120.8	113.1
82.5°	216.9	192.1	162.7	133.2	105.3	82.1	72.8
85°	190.5	164.2	134.8	105.3	77.5	52.7	40.3
87.5°	170.4	141.0	111.5	83.6	54.2	29.4	15.5
90°	151.8	123.9	96.0	66.6	38.7	15.5	0.0
92.5°	134.8	108.4	80.6	54.2	29.4	9.3	1.5
95°	119.3	96.0	68.2	43.4	21.7	6.2	1.5
97.5°	106.9	83.6	58.9	35.6	17.0	4.6	1.5
100°	96.0	72.8	51.1	29.4	13.9	3.1	1.5
102.5°	85.2	65.1	43.4	24.8	10.8	1.5	1.5
105°	75.9	57.3	37.2	21.7	9.3	1.5	1.5
107.5°	68.2	51.1	32.5	18.6	6.2	1.5	1.5
110°	60.4	43.4	27.9	15.5	4.6	1.5	1.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	54.2	38.7	24.8	12.4	3.1	1.5	1.5
115°	48.0	34.1	21.7	10.8	3.1	1.5	1.5
117.5°	41.8	29.4	18.6	7.7	1.5	1.5	1.5
120°	37.2	26.3	15.5	6.2	1.5	1.5	1.5
122.5°	32.5	21.7	12.4	4.6	1.5	1.5	1.5
125°	27.9	18.6	10.8	3.1	1.5	1.5	1.5
127.5°	23.2	15.5	7.7	3.1	1.5	1.5	1.5
130°	20.1	12.4	6.2	1.5	1.5	1.5	1.5
132.5°	17.0	9.3	4.6	1.5	1.5	1.5	1.5
135°	13.9	7.7	3.1	1.5	1.5	1.5	1.5
137.5°	10.8	6.2	3.1	1.5	1.5	1.5	1.5
140°	7.7	4.6	1.5	1.5	1.5	1.5	1.5
142.5°	6.2	3.1	1.5	1.5	1.5	1.5	1.5
145°	4.6	3.1	1.5	1.5	1.5	1.5	1.5
147.5°	3.1	3.1	3.1	3.1	1.5	1.5	1.5
150°	3.1	3.1	1.5	1.5	3.1	1.5	1.5
152.5°	3.1	1.5	1.5	1.5	3.1	1.5	1.5
155°	3.1	3.1	3.1	3.1	3.1	3.1	1.5
157.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1
160°	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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)