

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1213540

Luminaire Tested: 4SNLED-LD5-85SL-LC-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33518)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-85SL-LC-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

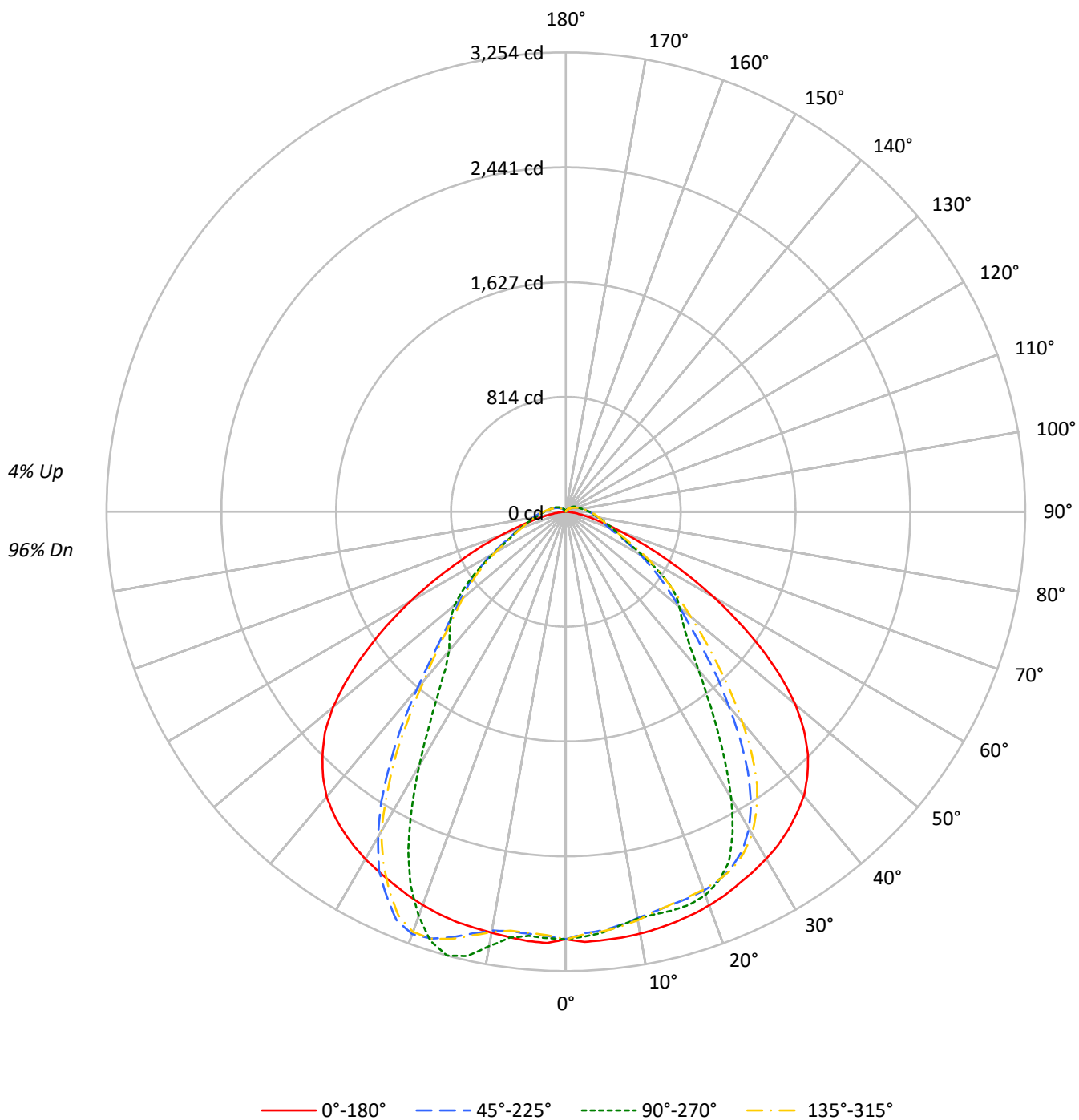
Lumens per Lamp: N/A
Luminaire Lumens: 7218.0 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 85
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	24468	24468	24468	24468
5°	24645	23497	24696	23682
10°	24760	22520	24709	24049
15°	24951	22219	24939	24739
20°	25226	21866	25199	23050
25°	25537	20744	25523	20044
30°	26017	17979	26032	15928
35°	26527	14539	26602	12303
40°	26976	11705	27088	10313
45°	26882	9915	27020	9655
50°	25723	9129	26083	8925
55°	22823	8205	23392	7459
60°	18512	6280	19495	5759
65°	13761	4804	14826	4556
70°	9359	4148	10549	3965
75°	6124	3743	7127	3539
80°	3957	3489	4637	3210
85°	2029	3481	2671	3179

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 27020 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.6	4.0
10°-20°	855.7	11.9
20°-30°	1300.9	18.0
30°-40°	1395.6	19.3
40°-50°	1211.2	16.8
50°-60°	897.6	12.4
60°-70°	514.3	7.1
70°-80°	284.8	3.9
80°-90°	173.4	2.4
90°-100°	112.8	1.6
100°-110°	75.5	1.0
110°-120°	51.0	0.7
120°-130°	31.3	0.4
130°-140°	16.5	0.2
140°-150°	7.5	0.1
150°-160°	2.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2444.2	33.9
0°-40°	3839.8	53.2
0°-60°	5948.7	82.4
0°-90°	6921.2	95.9
90°-120°	239.3	3.3
90°-150°	294.6	4.1
90°-180°	297.0	4.1
0°-180°	7218.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3028	3028	3028	3028	3028	
5°	3046	2992	3053	3015	3046	290
15°	3007	2923	3006	3254	3007	851
25°	2906	2734	2904	2642	2906	1343
35°	2748	1861	2756	1575	2748	1720
45°	2426	1193	2438	1162	2426	1857
55°	1692	895	1734	813	1692	1501
65°	768	454	827	430	768	774
75°	219	288	255	272	219	250
85°	30	199	39	181	30	39
90°	0	166	3	153	0	1
95°	2	136	0	130	2	1
105°	2	102	2	97	2	2
115°	2	83	2	75	2	2
125°	2	63	2	52	2	1
135°	2	39	2	33	2	1
145°	2	24	3	19	2	1
155°	3	11	3	9	3	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8
2.5°	3049.7	3041.8	3038.7	3032.5	3037.2	3055.9	3043.4	3023.1	3024.6	2988.7	3007.4
5°	3046.5	3037.2	3032.5	3026.2	3029.3	3046.5	3034.0	3013.7	3012.1	2976.2	2993.4
7.5°	3041.8	3032.5	3024.6	3019.9	3021.5	3035.6	3019.9	2996.5	2991.8	2952.7	2968.3
10°	3034.0	3027.8	3016.8	3009.0	3007.4	3023.1	2998.1	2974.6	2963.6	2923.0	2938.6
12.5°	3023.1	3013.7	3002.7	2988.7	2987.1	2996.5	2976.2	2943.3	2932.4	2899.5	2916.7
15°	3007.4	2996.5	2984.0	2968.3	2960.5	2966.8	2941.8	2912.0	2910.5	2882.3	2905.8
17.5°	2990.2	2974.6	2960.5	2938.6	2927.7	2932.4	2912.0	2885.5	2888.6	2871.4	2898.0
20°	2966.8	2949.6	2927.7	2905.8	2890.1	2898.0	2883.9	2863.6	2868.2	2855.7	2879.2
22.5°	2940.2	2916.7	2890.1	2865.1	2852.6	2863.6	2852.6	2835.4	2837.0	2829.1	2843.2
25°	2905.8	2879.2	2847.9	2816.6	2810.4	2818.2	2811.9	2797.9	2791.6	2779.1	2785.4
27.5°	2874.5	2844.8	2805.7	2772.8	2761.9	2777.5	2763.5	2740.0	2722.8	2705.6	2693.1
30°	2838.5	2802.6	2758.8	2721.2	2711.9	2718.1	2697.8	2661.8	2616.5	2594.6	2560.2
32.5°	2799.4	2752.5	2697.8	2655.6	2649.3	2644.6	2607.1	2555.5	2485.1	2441.3	2388.1
35°	2747.8	2696.2	2630.5	2578.9	2569.5	2542.9	2482.0	2413.1	2322.4	2247.4	2156.7
37.5°	2690.0	2629.0	2560.2	2491.3	2464.8	2411.6	2325.6	2253.6	2116.0	2025.3	1915.8
40°	2624.3	2550.8	2466.3	2383.4	2339.6	2253.6	2155.1	2048.7	1915.8	1793.8	1701.6
42.5°	2533.6	2455.4	2355.3	2263.0	2187.9	2073.8	1958.0	1807.9	1685.9	1582.7	1488.9
45°	2425.7	2331.8	2216.1	2105.0	2009.6	1873.6	1737.5	1587.4	1485.7	1365.3	1301.2
47.5°	2286.5	2184.8	2061.3	1937.7	1812.6	1662.5	1520.1	1376.3	1274.6	1188.6	1141.7
50°	2122.3	2028.4	1892.4	1745.3	1607.7	1451.3	1309.0	1201.1	1102.6	1049.4	1013.4
52.5°	1918.9	1831.4	1692.2	1532.7	1399.7	1246.5	1116.6	1029.1	958.7	919.6	907.1
55°	1692.2	1615.5	1477.9	1329.3	1193.3	1052.5	954.0	877.4	832.0	808.6	810.1
57.5°	1449.8	1390.3	1260.5	1127.6	999.4	893.0	803.9	742.9	708.5	706.9	711.6
60°	1207.4	1163.6	1051.0	936.8	824.2	738.2	672.5	630.3	608.4	609.9	608.4
62.5°	975.9	935.2	853.9	760.1	670.9	613.1	553.6	536.4	517.7	516.1	516.1
65°	767.9	736.6	670.9	603.7	536.4	498.9	469.2	448.8	434.8	431.6	433.2
67.5°	577.1	564.6	519.2	473.9	431.6	408.2	383.2	378.5	367.5	367.5	370.7
70°	430.1	420.7	395.7	369.1	351.9	336.2	323.7	323.7	322.2	320.6	328.4
72.5°	311.2	312.8	305.0	284.6	283.1	279.9	276.8	281.5	283.1	287.8	297.1
75°	219.0	223.6	223.6	220.5	226.8	234.6	239.3	247.1	256.5	262.7	273.7
77.5°	154.8	154.8	162.6	172.0	184.5	198.6	211.1	222.1	234.6	242.4	251.8
80°	100.1	104.8	117.3	134.5	151.7	170.5	187.7	201.7	214.3	226.8	233.0
82.5°	59.4	67.2	82.9	104.8	126.7	150.1	167.3	184.5	198.6	211.1	215.8
85°	29.7	40.7	59.4	82.9	106.3	131.4	153.3	168.9	184.5	195.5	201.7
87.5°	9.4	21.9	42.2	64.1	89.1	114.2	137.6	154.8	168.9	178.3	184.5
90°	0.0	10.9	29.7	53.2	76.6	101.7	123.6	142.3	156.4	164.2	168.9
92.5°	0.0	6.3	23.5	43.8	65.7	90.7	112.6	129.8	142.3	150.1	153.3
95°	1.6	4.7	17.2	36.0	57.9	81.3	101.7	117.3	129.8	137.6	139.2
97.5°	1.6	3.1	14.1	29.7	50.0	71.9	92.3	107.9	117.3	125.1	126.7
100°	1.6	3.1	10.9	26.6	43.8	64.1	82.9	97.0	107.9	114.2	115.7
102.5°	1.6	1.6	9.4	21.9	39.1	56.3	73.5	87.6	97.0	103.2	106.3
105°	1.6	1.6	7.8	18.8	34.4	50.0	65.7	79.8	87.6	93.8	97.0
107.5°	1.6	1.6	6.3	15.6	29.7	43.8	59.4	70.4	79.8	86.0	89.1
110°	1.6	1.6	4.7	14.1	25.0	39.1	51.6	62.6	71.9	78.2	81.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.6	1.6	4.7	12.5	21.9	34.4	45.4	56.3	64.1	70.4	75.1
115°	1.6	1.6	4.7	10.9	20.3	29.7	40.7	50.0	57.9	64.1	68.8
117.5°	1.6	1.6	4.7	9.4	17.2	26.6	36.0	45.4	51.6	57.9	62.6
120°	1.6	1.6	3.1	7.8	15.6	23.5	31.3	39.1	46.9	53.2	57.9
122.5°	1.6	1.6	3.1	7.8	12.5	20.3	28.2	34.4	42.2	46.9	51.6
125°	1.6	1.6	3.1	6.3	10.9	18.8	25.0	31.3	36.0	42.2	46.9
127.5°	1.6	1.6	3.1	6.3	9.4	15.6	21.9	28.2	32.8	37.5	40.7
130°	1.6	1.6	3.1	4.7	7.8	12.5	18.8	23.5	29.7	32.8	36.0
132.5°	1.6	1.6	1.6	4.7	6.3	9.4	14.1	20.3	25.0	29.7	31.3
135°	1.6	1.6	1.6	3.1	6.3	7.8	10.9	15.6	20.3	25.0	28.2
137.5°	1.6	1.6	1.6	3.1	4.7	7.8	9.4	12.5	17.2	20.3	25.0
140°	1.6	1.6	1.6	3.1	4.7	6.3	7.8	10.9	14.1	17.2	20.3
142.5°	1.6	1.6	1.6	3.1	3.1	4.7	6.3	9.4	10.9	14.1	17.2
145°	1.6	1.6	1.6	3.1	3.1	4.7	6.3	7.8	9.4	10.9	14.1
147.5°	1.6	1.6	1.6	3.1	3.1	3.1	4.7	6.3	7.8	9.4	10.9
150°	3.1	3.1	3.1	3.1	3.1	3.1	4.7	4.7	6.3	7.8	9.4
152.5°	3.1	3.1	3.1	3.1	3.1	3.1	4.7	4.7	4.7	6.3	7.8
155°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.7	4.7	6.3	6.3
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°	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8
2.5°	3001.2	3004.3	3023.1	3021.5	3018.4	3015.3	3015.3	3012.1	3015.3	3023.1	3019.9
5°	2985.5	2990.2	3004.3	3002.7	2999.6	2998.1	2996.5	2991.8	2994.9	3005.9	3002.7
7.5°	2957.4	2962.1	2974.6	2968.3	2963.6	2966.8	2959.0	2954.3	2960.5	2971.5	2969.9
10°	2927.7	2930.8	2946.4	2943.3	2935.5	2937.1	2929.2	2926.1	2933.9	2940.2	2941.8
12.5°	2907.3	2918.3	2932.4	2930.8	2929.2	2930.8	2923.0	2919.9	2924.5	2930.8	2929.2
15°	2902.7	2916.7	2932.4	2932.4	2933.9	2935.5	2927.7	2923.0	2927.7	2932.4	2930.8
17.5°	2898.0	2915.2	2929.2	2927.7	2929.2	2932.4	2919.9	2916.7	2923.0	2929.2	2926.1
20°	2882.3	2898.0	2907.3	2904.2	2904.2	2905.8	2890.1	2890.1	2899.5	2904.2	2905.8
22.5°	2838.5	2857.3	2857.3	2849.5	2849.5	2843.2	2838.5	2829.1	2840.1	2847.9	2854.2
25°	2772.8	2780.7	2771.3	2754.1	2744.7	2736.9	2715.0	2733.7	2733.7	2757.2	2765.0
27.5°	2680.6	2663.4	2636.8	2600.8	2593.0	2568.0	2553.9	2558.6	2566.4	2599.3	2624.3
30°	2528.9	2477.3	2431.9	2416.3	2381.9	2356.8	2331.8	2344.3	2358.4	2377.2	2428.8
32.5°	2328.7	2278.6	2205.1	2178.6	2142.6	2111.3	2081.6	2100.4	2125.4	2137.9	2194.2
35°	2098.8	2039.4	1972.1	1926.8	1889.2	1872.0	1834.5	1861.1	1887.7	1897.0	1945.5
37.5°	1854.8	1793.8	1734.4	1695.3	1659.3	1648.4	1623.4	1642.1	1662.5	1676.5	1717.2
40°	1623.4	1567.1	1521.7	1495.1	1470.1	1460.7	1451.3	1459.1	1474.8	1485.7	1517.0
42.5°	1424.7	1379.4	1348.1	1332.5	1315.3	1302.8	1304.3	1307.4	1315.3	1338.7	1352.8
45°	1251.1	1224.6	1204.2	1201.1	1190.2	1188.6	1187.0	1193.3	1198.0	1212.0	1223.0
47.5°	1112.0	1101.0	1096.3	1102.6	1107.3	1101.0	1104.1	1112.0	1121.3	1121.3	1119.8
50°	1002.5	1005.6	1011.9	1025.9	1035.3	1038.4	1041.6	1051.0	1052.5	1055.7	1051.0
52.5°	913.3	916.5	933.7	955.6	966.5	971.2	977.5	986.8	986.8	990.0	983.7
55°	822.6	827.3	844.5	866.4	875.8	882.1	888.3	894.6	899.3	905.5	900.8
57.5°	722.5	736.6	747.6	753.8	760.1	764.8	769.5	771.0	780.4	782.0	789.8
60°	616.2	619.3	630.3	628.7	624.0	636.5	630.3	641.2	652.2	666.2	667.8
62.5°	514.5	516.1	523.9	520.8	527.0	525.5	530.2	530.2	538.0	544.2	552.1
65°	434.8	436.3	442.6	442.6	441.0	445.7	450.4	453.5	453.5	458.2	464.5
67.5°	375.3	380.0	386.3	389.4	392.5	392.5	397.2	398.8	401.9	403.5	406.6
70°	334.7	340.9	347.2	350.3	351.9	355.0	356.6	356.6	359.7	361.3	364.4
72.5°	305.0	311.2	315.9	315.9	319.0	320.6	320.6	322.2	323.7	326.9	330.0
75°	279.9	284.6	287.8	286.2	286.2	286.2	287.8	287.8	290.9	294.0	297.1
77.5°	256.5	261.2	261.2	258.0	258.0	258.0	258.0	259.6	261.2	264.3	267.4
80°	239.3	239.3	237.7	237.7	234.6	233.0	233.0	234.6	234.6	237.7	242.4
82.5°	220.5	220.5	219.0	217.4	215.8	214.3	214.3	215.8	217.4	219.0	222.1
85°	203.3	203.3	200.2	200.2	198.6	198.6	198.6	198.6	200.2	201.7	204.9
87.5°	186.1	184.5	183.0	181.4	181.4	181.4	181.4	181.4	183.0	186.1	187.7
90°	168.9	167.3	165.8	165.8	164.2	164.2	165.8	165.8	167.3	168.9	170.5
92.5°	153.3	151.7	150.1	150.1	148.6	148.6	150.1	148.6	151.7	151.7	153.3
95°	139.2	137.6	136.1	136.1	136.1	136.1	136.1	136.1	137.6	137.6	139.2
97.5°	126.7	125.1	123.6	123.6	125.1	123.6	125.1	125.1	125.1	126.7	128.2
100°	115.7	114.2	114.2	115.7	114.2	114.2	115.7	115.7	115.7	115.7	117.3
102.5°	106.3	106.3	106.3	106.3	106.3	106.3	107.9	107.9	107.9	107.9	109.5
105°	97.0	98.5	98.5	98.5	100.1	100.1	100.1	101.7	101.7	101.7	101.7
107.5°	90.7	92.3	92.3	93.8	93.8	95.4	95.4	95.4	95.4	97.0	97.0
110°	84.5	86.0	87.6	89.1	89.1	90.7	90.7	90.7	90.7	90.7	90.7

TEST NUMBER: P1213540

CATALOG NUMBER: 4SNLED-LD5-85SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	78.2	79.8	81.3	84.5	86.0	86.0	86.0	86.0	87.6	87.6	86.0
115°	71.9	75.1	76.6	79.8	81.3	81.3	82.9	82.9	82.9	82.9	81.3
117.5°	65.7	70.4	71.9	75.1	76.6	76.6	78.2	78.2	78.2	78.2	76.6
120°	61.0	64.1	67.2	68.8	70.4	71.9	71.9	73.5	73.5	73.5	71.9
122.5°	56.3	59.4	62.6	64.1	65.7	67.2	67.2	67.2	67.2	67.2	67.2
125°	50.0	53.2	56.3	57.9	59.4	61.0	61.0	62.6	62.6	62.6	61.0
127.5°	45.4	48.5	50.0	53.2	54.7	54.7	56.3	56.3	56.3	56.3	54.7
130°	39.1	42.2	45.4	46.9	48.5	48.5	50.0	50.0	50.0	50.0	50.0
132.5°	34.4	37.5	39.1	42.2	42.2	43.8	43.8	45.4	45.4	45.4	43.8
135°	31.3	32.8	34.4	37.5	37.5	39.1	39.1	39.1	39.1	39.1	39.1
137.5°	28.2	29.7	31.3	32.8	32.8	34.4	34.4	34.4	34.4	36.0	34.4
140°	23.5	26.6	28.2	28.2	29.7	29.7	29.7	31.3	31.3	31.3	29.7
142.5°	20.3	21.9	23.5	25.0	26.6	26.6	26.6	26.6	28.2	26.6	26.6
145°	15.6	18.8	20.3	21.9	23.5	23.5	23.5	23.5	23.5	23.5	23.5
147.5°	12.5	14.1	17.2	18.8	18.8	20.3	20.3	20.3	20.3	20.3	20.3
150°	10.9	10.9	14.1	15.6	17.2	17.2	17.2	17.2	17.2	17.2	17.2
152.5°	7.8	9.4	10.9	12.5	14.1	14.1	14.1	14.1	14.1	14.1	14.1
155°	7.8	7.8	9.4	9.4	10.9	10.9	10.9	10.9	12.5	10.9	10.9
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: P1213540

CATALOG NUMBER: 4SNLED-LD5-85SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8
2.5°	3015.3	3013.7	3019.9	3013.7	2982.4	2994.9	2990.2	3007.4	3009.0	3013.7	3029.3
5°	2999.6	2999.6	3007.4	3001.2	2971.5	2984.0	2982.4	2999.6	3002.7	3005.9	3023.1
7.5°	2968.3	2969.9	2980.9	2976.2	2944.9	2963.6	2962.1	2982.4	2988.7	2994.9	3010.6
10°	2938.6	2937.1	2949.6	2944.9	2915.2	2937.1	2935.5	2955.8	2965.2	2976.2	2994.9
12.5°	2923.0	2918.3	2923.0	2918.3	2885.5	2902.7	2904.2	2927.7	2938.6	2952.7	2974.6
15°	2923.0	2915.2	2915.2	2905.8	2868.2	2879.2	2880.8	2896.4	2910.5	2924.5	2951.1
17.5°	2919.9	2912.0	2910.5	2902.7	2862.0	2862.0	2860.4	2871.4	2879.2	2893.3	2921.4
20°	2902.7	2899.5	2898.0	2893.3	2855.7	2849.5	2846.4	2846.4	2851.0	2855.7	2883.9
22.5°	2857.3	2860.4	2863.6	2866.7	2837.0	2826.0	2827.6	2824.5	2819.8	2819.8	2843.2
25°	2772.8	2788.5	2801.0	2815.1	2797.9	2790.1	2799.4	2794.7	2786.9	2780.7	2801.0
27.5°	2638.3	2671.2	2697.8	2732.2	2733.7	2727.5	2752.5	2749.4	2747.8	2738.4	2754.1
30°	2452.2	2503.9	2539.8	2589.9	2632.1	2638.3	2680.6	2686.8	2693.1	2688.4	2704.0
32.5°	2227.0	2297.4	2358.4	2436.6	2477.3	2513.2	2572.7	2597.7	2622.7	2630.5	2647.7
35°	1981.5	2061.3	2133.2	2219.2	2283.3	2361.5	2433.5	2471.0	2527.3	2549.2	2574.2
37.5°	1748.5	1823.5	1893.9	1979.9	2083.2	2164.5	2253.6	2338.1	2414.7	2446.0	2483.5
40°	1542.0	1603.0	1670.3	1745.3	1839.2	1945.5	2042.5	2159.8	2250.5	2313.1	2367.8
42.5°	1385.6	1415.4	1473.2	1540.5	1615.5	1723.5	1822.0	1953.3	2062.8	2152.0	2242.7
45°	1246.5	1260.5	1302.8	1338.7	1415.4	1510.8	1615.5	1743.8	1857.9	1972.1	2081.6
47.5°	1127.6	1144.8	1165.1	1187.0	1241.8	1321.5	1412.2	1528.0	1642.1	1775.1	1900.2
50°	1047.8	1052.5	1055.7	1065.0	1097.9	1152.6	1226.1	1324.6	1434.1	1576.4	1709.4
52.5°	977.5	977.5	968.1	963.4	975.9	1010.3	1052.5	1122.9	1235.5	1366.9	1507.6
55°	902.4	888.3	885.2	869.5	872.7	888.3	908.6	963.4	1055.7	1168.3	1304.3
57.5°	797.6	791.3	791.3	785.1	772.6	780.4	785.1	824.2	889.9	986.8	1105.7
60°	677.2	674.1	681.9	683.4	672.5	677.2	675.6	699.1	746.0	824.2	922.7
62.5°	556.8	570.8	572.4	578.7	572.4	570.8	578.7	599.0	622.4	681.9	758.5
65°	467.6	475.4	477.0	484.8	481.7	481.7	487.9	503.6	517.7	558.3	617.8
67.5°	409.7	406.6	408.2	412.9	408.2	406.6	411.3	420.7	431.6	456.7	498.9
70°	364.4	361.3	361.3	361.3	355.0	350.3	351.9	355.0	359.7	373.8	400.4
72.5°	330.0	330.0	325.3	320.6	315.9	312.8	309.7	306.5	305.0	309.7	323.7
75°	298.7	300.3	298.7	294.0	287.8	281.5	275.3	269.0	261.2	258.0	259.6
77.5°	270.6	272.1	273.7	272.1	265.9	258.0	248.7	239.3	228.3	217.4	211.1
80°	245.5	248.7	250.2	248.7	244.0	237.7	226.8	215.8	200.2	186.1	170.5
82.5°	223.6	228.3	229.9	229.9	226.8	220.5	208.0	195.5	178.3	159.5	139.2
85°	206.4	209.6	212.7	212.7	211.1	204.9	192.4	178.3	161.1	139.2	117.3
87.5°	189.2	190.8	193.9	197.1	193.9	187.7	176.7	161.1	143.9	122.0	97.0
90°	172.0	173.6	176.7	179.9	178.3	172.0	162.6	148.6	129.8	106.3	81.3
92.5°	154.8	158.0	159.5	161.1	162.6	158.0	150.1	136.1	117.3	93.8	70.4
95°	142.3	142.3	145.4	147.0	148.6	143.9	137.6	123.6	106.3	84.5	61.0
97.5°	129.8	129.8	132.9	132.9	134.5	131.4	125.1	112.6	95.4	75.1	51.6
100°	117.3	118.9	120.4	122.0	122.0	120.4	114.2	101.7	86.0	67.2	45.4
102.5°	109.5	109.5	111.0	111.0	112.6	109.5	103.2	92.3	76.6	59.4	39.1
105°	101.7	101.7	103.2	103.2	101.7	98.5	92.3	82.9	68.8	51.6	34.4
107.5°	95.4	95.4	95.4	95.4	93.8	90.7	84.5	73.5	61.0	46.9	31.3
110°	90.7	89.1	89.1	87.6	86.0	81.3	75.1	65.7	54.7	40.7	26.6



TEST NUMBER: P1213540

CATALOG NUMBER: 4SNLED-LD5-85SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	86.0	84.5	82.9	81.3	78.2	73.5	67.2	59.4	48.5	36.0	23.5
115°	81.3	79.8	78.2	75.1	71.9	67.2	61.0	53.2	42.2	31.3	20.3
117.5°	76.6	75.1	71.9	68.8	65.7	61.0	54.7	46.9	37.5	28.2	18.8
120°	70.4	68.8	67.2	64.1	61.0	54.7	48.5	42.2	32.8	25.0	15.6
122.5°	65.7	64.1	61.0	59.4	54.7	50.0	43.8	37.5	29.7	21.9	14.1
125°	59.4	57.9	56.3	53.2	50.0	43.8	39.1	32.8	26.6	18.8	10.9
127.5°	54.7	53.2	50.0	46.9	43.8	39.1	34.4	29.7	23.5	15.6	10.9
130°	48.5	46.9	45.4	42.2	39.1	34.4	31.3	25.0	20.3	14.1	9.4
132.5°	42.2	42.2	40.7	37.5	34.4	31.3	26.6	21.9	17.2	12.5	7.8
135°	39.1	37.5	36.0	32.8	31.3	26.6	23.5	18.8	14.1	10.9	6.3
137.5°	34.4	32.8	31.3	29.7	26.6	23.5	20.3	15.6	12.5	9.4	6.3
140°	29.7	28.2	28.2	25.0	23.5	20.3	17.2	14.1	10.9	7.8	4.7
142.5°	26.6	25.0	23.5	21.9	20.3	17.2	14.1	10.9	9.4	6.3	4.7
145°	23.5	21.9	20.3	18.8	17.2	14.1	12.5	9.4	7.8	6.3	4.7
147.5°	18.8	18.8	17.2	15.6	14.1	12.5	10.9	9.4	6.3	4.7	3.1
150°	15.6	15.6	14.1	12.5	12.5	10.9	9.4	7.8	6.3	4.7	3.1
152.5°	14.1	12.5	12.5	10.9	10.9	9.4	7.8	6.3	4.7	4.7	3.1
155°	10.9	10.9	10.9	9.4	9.4	7.8	6.3	6.3	4.7	3.1	3.1
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: P1213540

CATALOG NUMBER: 4SNLED-LD5-85SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8
2.5°	3032.5	3013.7	3029.3	3057.5	3054.4	3051.2	3048.1	3054.4	3074.7	3063.7	3046.5
5°	3027.8	3009.0	3026.2	3052.8	3051.2	3046.5	3043.4	3049.7	3070.0	3059.0	3040.3
7.5°	3018.4	3001.2	3013.7	3040.3	3040.3	3037.2	3034.0	3040.3	3059.0	3049.7	3030.9
10°	3002.7	2990.2	3002.7	3027.8	3029.3	3023.1	3019.9	3027.8	3046.5	3041.8	3026.2
12.5°	2990.2	2977.7	2991.8	3016.8	3018.4	3012.1	3007.4	3016.8	3041.8	3045.0	3040.3
15°	2973.0	2962.1	2979.3	3005.9	3005.9	3001.2	3001.2	3013.7	3048.1	3062.2	3070.0
17.5°	2948.0	2940.2	2960.5	2987.1	2988.7	2985.5	2987.1	3012.1	3057.5	3091.9	3113.8
20°	2916.7	2913.6	2935.5	2963.6	2968.3	2969.9	2977.7	3015.3	3077.8	3124.7	3146.6
22.5°	2879.2	2880.8	2905.8	2935.5	2941.8	2946.4	2962.1	3015.3	3093.5	3143.5	3152.9
25°	2837.0	2841.7	2868.2	2904.2	2912.0	2921.4	2948.0	3016.8	3098.1	3131.0	3115.3
27.5°	2791.6	2801.0	2835.4	2872.9	2882.3	2898.0	2932.4	3007.4	3076.2	3077.8	3019.9
30°	2744.7	2755.6	2796.3	2840.1	2855.7	2871.4	2913.6	2985.5	3023.1	2973.0	2871.4
32.5°	2691.5	2707.2	2747.8	2801.0	2819.8	2840.1	2882.3	2943.3	2929.2	2821.3	2675.9
35°	2624.3	2646.2	2693.1	2755.6	2772.8	2799.4	2829.1	2843.2	2780.7	2627.4	2463.2
37.5°	2541.4	2574.2	2629.0	2700.9	2719.7	2736.9	2744.7	2705.6	2580.5	2414.7	2244.2
40°	2446.0	2496.0	2555.5	2635.2	2654.0	2654.0	2625.8	2542.9	2385.0	2167.6	1978.4
42.5°	2330.3	2391.2	2466.3	2546.1	2564.8	2542.9	2475.7	2330.3	2150.4	1908.0	1707.8
45°	2189.5	2270.8	2355.3	2438.2	2447.5	2399.1	2278.6	2094.1	1872.0	1646.8	1456.0
47.5°	2022.2	2128.5	2220.8	2314.6	2302.1	2220.8	2059.7	1850.1	1615.5	1402.8	1249.6
50°	1834.5	1959.6	2062.8	2152.0	2125.4	2012.8	1823.5	1604.6	1371.6	1190.2	1063.5
52.5°	1634.3	1778.2	1881.4	1953.3	1917.4	1782.9	1574.9	1365.3	1174.5	1008.7	924.3
55°	1426.3	1571.7	1678.1	1734.4	1687.5	1542.0	1337.2	1146.4	966.5	858.6	808.6
57.5°	1224.6	1360.6	1460.7	1506.1	1446.6	1301.2	1112.0	950.9	821.1	730.4	705.3
60°	1030.6	1141.7	1237.1	1271.5	1207.4	1072.9	910.2	782.0	686.6	624.0	611.5
62.5°	850.8	941.5	1016.6	1043.1	980.6	875.8	735.0	639.6	572.4	541.1	525.5
65°	702.2	755.4	832.0	827.3	789.8	692.8	589.6	522.4	478.6	458.2	448.8
67.5°	552.1	600.5	649.0	655.3	608.4	541.1	473.9	425.4	401.9	391.0	386.3
70°	427.0	462.9	492.6	484.8	459.8	417.6	375.3	348.8	339.4	334.7	334.7
72.5°	331.6	350.3	364.4	355.0	339.4	317.5	297.1	286.2	287.8	290.9	294.0
75°	256.5	261.2	264.3	254.9	251.8	237.7	236.2	237.7	247.1	256.5	261.2
77.5°	197.1	190.8	186.1	176.7	178.3	176.7	184.5	197.1	211.1	225.2	237.7
80°	151.7	137.6	126.7	117.3	122.0	129.8	145.4	164.2	183.0	198.6	214.3
82.5°	117.3	97.0	81.3	71.9	81.3	93.8	114.2	137.6	159.5	176.7	193.9
85°	90.7	67.2	48.5	39.1	48.5	67.2	89.1	115.7	139.2	158.0	175.2
87.5°	70.4	48.5	26.6	15.6	26.6	46.9	71.9	97.0	120.4	142.3	159.5
90°	56.3	32.8	12.5	3.1	14.1	32.8	56.3	81.3	104.8	128.2	145.4
92.5°	45.4	23.5	6.3	0.0	7.8	25.0	46.9	70.4	93.8	115.7	132.9
95°	37.5	18.8	4.7	0.0	6.3	18.8	37.5	61.0	82.9	104.8	118.9
97.5°	31.3	14.1	3.1	0.0	3.1	15.6	31.3	51.6	73.5	93.8	107.9
100°	26.6	12.5	3.1	0.0	3.1	12.5	26.6	45.4	64.1	82.9	97.0
102.5°	21.9	9.4	1.6	1.6	1.6	9.4	23.5	39.1	56.3	73.5	87.6
105°	20.3	7.8	1.6	1.6	1.6	7.8	20.3	34.4	50.0	65.7	78.2
107.5°	17.2	6.3	1.6	1.6	1.6	6.3	17.2	29.7	45.4	59.4	70.4
110°	14.1	6.3	1.6	1.6	1.6	6.3	14.1	26.6	39.1	51.6	62.6

TEST NUMBER: P1213540

CATALOG NUMBER: 4SNLED-LD5-85SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	12.5	4.7	1.6	1.6	1.6	4.7	12.5	23.5	34.4	46.9	56.3
115°	10.9	4.7	1.6	1.6	1.6	4.7	10.9	20.3	29.7	40.7	50.0
117.5°	9.4	4.7	1.6	1.6	1.6	3.1	9.4	17.2	26.6	36.0	45.4
120°	7.8	3.1	1.6	1.6	1.6	3.1	7.8	15.6	23.5	31.3	39.1
122.5°	7.8	3.1	1.6	1.6	1.6	3.1	6.3	12.5	20.3	26.6	34.4
125°	6.3	3.1	1.6	1.6	1.6	1.6	6.3	10.9	17.2	23.5	29.7
127.5°	6.3	3.1	1.6	1.6	1.6	1.6	4.7	9.4	14.1	20.3	26.6
130°	4.7	3.1	1.6	1.6	1.6	1.6	3.1	7.8	12.5	17.2	21.9
132.5°	4.7	3.1	1.6	1.6	1.6	1.6	3.1	6.3	9.4	14.1	18.8
135°	4.7	1.6	1.6	1.6	1.6	1.6	1.6	4.7	7.8	10.9	14.1
137.5°	3.1	1.6	1.6	1.6	1.6	1.6	1.6	3.1	6.3	7.8	12.5
140°	3.1	1.6	1.6	1.6	1.6	1.6	1.6	3.1	4.7	6.3	9.4
142.5°	3.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.1	4.7	7.8
145°	3.1	1.6	1.6	3.1	3.1	1.6	1.6	3.1	3.1	4.7	6.3
147.5°	3.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.1	3.1	4.7
150°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.7
152.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
155°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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: P1213540

CATALOG NUMBER: 4SNLED-LD5-85SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8
2.5°	3043.4	3007.4	3026.2	3019.9	3026.2	3041.8	3040.3	3035.6	3038.7	3030.9	3023.1
5°	3037.2	3001.2	3019.9	3012.1	3019.9	3035.6	3032.5	3027.8	3032.5	3023.1	3015.3
7.5°	3029.3	2996.5	3018.4	3016.8	3030.9	3051.2	3052.8	3052.8	3063.7	3049.7	3043.4
10°	3029.3	3012.1	3041.8	3052.8	3088.8	3115.3	3118.5	3124.7	3143.5	3140.4	3124.7
12.5°	3062.2	3059.0	3102.8	3129.4	3162.3	3199.8	3220.1	3226.4	3238.9	3229.5	3223.3
15°	3104.4	3120.0	3168.5	3198.2	3234.2	3262.4	3267.0	3270.2	3279.6	3265.5	3254.5
17.5°	3160.7	3170.1	3209.2	3221.7	3245.2	3249.8	3243.6	3228.0	3228.0	3196.7	3187.3
20°	3187.3	3182.6	3198.2	3177.9	3168.5	3140.4	3113.8	3084.1	3082.5	3049.7	3046.5
22.5°	3163.8	3132.6	3099.7	3049.7	3027.8	2987.1	2951.1	2933.9	2923.0	2880.8	2869.8
25°	3080.9	3004.3	2955.8	2896.4	2843.2	2796.3	2761.9	2725.9	2691.5	2657.1	2641.5
27.5°	2937.1	2865.1	2786.9	2704.0	2630.5	2558.6	2500.7	2464.8	2431.9	2386.6	2363.1
30°	2760.3	2660.2	2574.2	2494.5	2374.0	2286.5	2238.0	2166.0	2141.0	2120.7	2076.9
32.5°	2552.3	2431.9	2314.6	2206.7	2083.2	2001.8	1937.7	1884.5	1868.9	1815.7	1803.2
35°	2322.4	2164.5	2031.5	1925.2	1836.1	1737.5	1684.4	1648.4	1617.1	1581.1	1574.9
37.5°	2051.9	1909.6	1759.4	1665.6	1595.2	1510.8	1470.1	1445.1	1431.0	1404.4	1399.7
40°	1779.8	1637.4	1534.2	1440.4	1396.6	1351.2	1321.5	1310.6	1304.3	1294.9	1285.6
42.5°	1532.7	1407.5	1334.0	1271.5	1252.7	1230.8	1223.0	1229.2	1223.0	1219.9	1218.3
45°	1323.1	1227.7	1176.1	1157.3	1152.6	1146.4	1152.6	1163.6	1165.1	1162.0	1162.0
47.5°	1132.3	1086.9	1065.0	1068.2	1076.0	1080.7	1091.6	1105.7	1108.8	1101.0	1104.1
50°	1007.2	980.6	975.9	988.4	1005.6	1011.9	1024.4	1035.3	1033.8	1030.6	1027.5
52.5°	889.9	882.1	894.6	907.1	925.8	929.0	933.7	938.4	936.8	930.5	927.4
55°	791.3	797.6	808.6	813.2	827.3	825.8	827.3	827.3	821.1	817.9	813.2
57.5°	702.2	703.8	710.0	711.6	719.4	716.3	714.7	711.6	702.2	700.6	695.9
60°	611.5	608.4	622.4	611.5	617.8	611.5	609.9	602.1	592.7	591.2	588.0
62.5°	525.5	519.2	528.6	523.9	527.0	520.8	517.7	508.3	500.5	498.9	497.3
65°	448.8	445.7	455.1	453.5	456.7	448.8	445.7	439.5	433.2	431.6	430.1
67.5°	384.7	392.5	397.2	397.2	400.4	398.8	391.0	389.4	387.9	381.6	381.6
70°	337.8	342.5	351.9	353.4	351.9	355.0	348.8	347.2	345.6	342.5	340.9
72.5°	300.3	306.5	315.9	317.5	315.9	315.9	312.8	311.2	311.2	306.5	306.5
75°	270.6	278.4	286.2	286.2	286.2	283.1	279.9	279.9	276.8	275.3	272.1
77.5°	245.5	254.9	261.2	259.6	258.0	254.9	254.9	250.2	245.5	245.5	242.4
80°	226.8	233.0	237.7	236.2	234.6	229.9	228.3	223.6	220.5	215.8	215.8
82.5°	206.4	214.3	217.4	215.8	212.7	208.0	206.4	203.3	200.2	198.6	195.5
85°	189.2	197.1	198.6	195.5	192.4	189.2	187.7	186.1	184.5	181.4	181.4
87.5°	172.0	179.9	179.9	178.3	175.2	173.6	172.0	170.5	168.9	167.3	165.8
90°	158.0	164.2	164.2	162.6	161.1	159.5	158.0	156.4	154.8	153.3	153.3
92.5°	143.9	150.1	150.1	148.6	147.0	145.4	145.4	143.9	142.3	140.8	139.2
95°	131.4	137.6	137.6	137.6	136.1	134.5	134.5	132.9	131.4	131.4	129.8
97.5°	118.9	125.1	125.1	125.1	123.6	122.0	122.0	120.4	120.4	120.4	118.9
100°	107.9	112.6	114.2	114.2	112.6	112.6	112.6	111.0	111.0	111.0	109.5
102.5°	97.0	101.7	104.8	104.8	104.8	103.2	103.2	103.2	103.2	103.2	101.7
105°	87.6	92.3	95.4	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
107.5°	79.8	84.5	87.6	89.1	90.7	90.7	92.3	92.3	92.3	92.3	92.3
110°	71.9	76.6	81.3	82.9	84.5	86.0	86.0	87.6	86.0	86.0	86.0

TEST NUMBER: P1213540

CATALOG NUMBER: 4SNLED-LD5-85SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	64.1	70.4	73.5	76.6	78.2	79.8	81.3	81.3	81.3	81.3	81.3
115°	57.9	64.1	67.2	70.4	73.5	75.1	75.1	76.6	76.6	76.6	75.1
117.5°	51.6	57.9	61.0	64.1	65.7	68.8	70.4	70.4	70.4	70.4	68.8
120°	46.9	51.6	54.7	57.9	61.0	62.6	64.1	64.1	64.1	64.1	64.1
122.5°	40.7	45.4	50.0	53.2	54.7	56.3	57.9	57.9	57.9	57.9	57.9
125°	36.0	40.7	43.8	46.9	48.5	51.6	51.6	51.6	51.6	51.6	51.6
127.5°	31.3	36.0	39.1	42.2	43.8	45.4	46.9	46.9	46.9	46.9	46.9
130°	26.6	31.3	34.4	37.5	39.1	40.7	40.7	42.2	42.2	42.2	42.2
132.5°	23.5	26.6	29.7	32.8	34.4	36.0	36.0	37.5	37.5	37.5	37.5
135°	18.8	23.5	25.0	28.2	29.7	31.3	31.3	32.8	32.8	32.8	32.8
137.5°	15.6	18.8	21.9	25.0	26.6	26.6	28.2	28.2	29.7	29.7	29.7
140°	12.5	14.1	18.8	20.3	21.9	23.5	25.0	25.0	25.0	25.0	25.0
142.5°	9.4	12.5	14.1	17.2	18.8	20.3	21.9	21.9	21.9	21.9	21.9
145°	7.8	9.4	10.9	14.1	15.6	17.2	18.8	18.8	18.8	18.8	18.8
147.5°	6.3	7.8	9.4	10.9	12.5	14.1	15.6	15.6	15.6	15.6	15.6
150°	4.7	6.3	7.8	7.8	9.4	10.9	12.5	14.1	14.1	14.1	14.1
152.5°	4.7	4.7	6.3	6.3	7.8	9.4	10.9	10.9	10.9	10.9	10.9
155°	3.1	4.7	4.7	4.7	6.3	6.3	7.8	9.4	9.4	9.4	9.4
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: P1213540

CATALOG NUMBER: 4SNLED-LD5-85SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8
2.5°	3027.8	3034.0	3030.9	3026.2	3024.6	3032.5	3024.6	2988.7	3002.7	3004.3	3015.3
5°	3023.1	3027.8	3024.6	3021.5	3016.8	3026.2	3016.8	2979.3	2993.4	2994.9	3005.9
7.5°	3054.4	3055.9	3055.9	3048.1	3035.6	3040.3	3027.8	2985.5	2993.4	2993.4	3001.2
10°	3132.6	3135.7	3140.4	3120.0	3104.4	3091.9	3074.7	3023.1	3021.5	3009.0	3009.0
12.5°	3234.2	3226.4	3218.6	3209.2	3196.7	3181.0	3156.0	3095.0	3074.7	3054.4	3034.0
15°	3263.9	3260.8	3259.2	3254.5	3246.7	3242.0	3223.3	3162.3	3132.6	3107.5	3071.6
17.5°	3185.7	3192.0	3212.3	3213.9	3223.3	3242.0	3238.9	3196.7	3170.1	3159.1	3115.3
20°	3045.0	3046.5	3071.6	3082.5	3123.2	3154.4	3177.9	3173.2	3167.0	3179.5	3146.6
22.5°	2876.1	2887.0	2913.6	2930.8	2969.9	3005.9	3043.4	3063.7	3096.6	3148.2	3141.9
25°	2646.2	2660.2	2697.8	2725.9	2780.7	2835.4	2885.5	2921.4	2960.5	3059.0	3091.9
27.5°	2370.9	2392.8	2441.3	2469.4	2546.1	2602.4	2674.3	2744.7	2799.4	2912.0	2979.3
30°	2081.6	2100.4	2152.0	2191.1	2256.8	2333.4	2424.1	2524.2	2614.9	2729.1	2813.5
32.5°	1811.0	1831.4	1873.6	1908.0	1981.5	2045.6	2145.7	2269.3	2353.7	2511.7	2624.3
35°	1574.9	1593.6	1623.4	1653.1	1714.1	1779.8	1865.8	1986.2	2094.1	2258.3	2400.6
37.5°	1409.1	1412.2	1429.4	1446.6	1492.0	1542.0	1609.3	1715.6	1815.7	1992.4	2148.8
40°	1290.2	1290.2	1299.6	1304.3	1324.6	1354.4	1396.6	1479.5	1562.4	1696.9	1887.7
42.5°	1216.7	1213.6	1213.6	1215.2	1213.6	1227.7	1252.7	1291.8	1365.3	1476.3	1624.9
45°	1162.0	1155.7	1151.1	1140.1	1133.8	1133.8	1135.4	1149.5	1191.7	1263.7	1384.1
47.5°	1101.0	1099.4	1091.6	1079.1	1068.2	1060.3	1047.8	1043.1	1055.7	1096.3	1177.6
50°	1030.6	1022.8	1015.0	1005.6	993.1	985.3	961.8	963.4	952.4	971.2	1013.4
52.5°	927.4	921.2	918.0	910.2	905.5	902.4	883.6	864.9	860.2	863.3	878.9
55°	813.2	816.4	803.9	810.1	808.6	794.5	786.7	772.6	767.9	766.3	774.1
57.5°	694.4	697.5	689.7	695.9	695.9	688.1	683.4	683.4	672.5	663.1	674.1
60°	586.5	580.2	584.9	592.7	592.7	588.0	584.9	584.9	577.1	574.0	581.8
62.5°	498.9	492.6	497.3	505.1	506.7	503.6	500.5	500.5	491.1	491.1	497.3
65°	431.6	433.2	431.6	437.9	437.9	439.5	436.3	433.2	422.3	427.0	425.4
67.5°	383.2	381.6	381.6	387.9	386.3	389.4	386.3	381.6	373.8	367.5	366.0
70°	342.5	340.9	340.9	344.1	345.6	345.6	344.1	340.9	330.0	323.7	319.0
72.5°	306.5	305.0	306.5	308.1	309.7	311.2	309.7	306.5	297.1	289.3	281.5
75°	273.7	272.1	276.8	276.8	278.4	278.4	279.9	278.4	270.6	261.2	251.8
77.5°	240.8	242.4	247.1	248.7	251.8	253.4	254.9	254.9	247.1	239.3	226.8
80°	214.3	217.4	220.5	222.1	225.2	229.9	231.5	233.0	226.8	219.0	204.9
82.5°	195.5	197.1	200.2	201.7	206.4	208.0	209.6	212.7	209.6	201.7	186.1
85°	179.9	181.4	184.5	184.5	187.7	190.8	192.4	193.9	192.4	184.5	168.9
87.5°	165.8	167.3	168.9	170.5	172.0	173.6	175.2	176.7	175.2	167.3	153.3
90°	153.3	153.3	154.8	154.8	156.4	158.0	161.1	161.1	159.5	153.3	139.2
92.5°	139.2	140.8	140.8	142.3	143.9	145.4	147.0	147.0	145.4	139.2	126.7
95°	129.8	129.8	131.4	131.4	132.9	132.9	134.5	134.5	132.9	126.7	114.2
97.5°	118.9	118.9	118.9	118.9	120.4	120.4	122.0	122.0	120.4	114.2	103.2
100°	109.5	109.5	109.5	109.5	109.5	111.0	111.0	111.0	109.5	103.2	92.3
102.5°	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	98.5	93.8	82.9
105°	97.0	97.0	97.0	95.4	95.4	95.4	93.8	93.8	89.1	84.5	75.1
107.5°	90.7	90.7	90.7	89.1	89.1	87.6	86.0	86.0	81.3	76.6	67.2
110°	86.0	86.0	86.0	84.5	82.9	81.3	79.8	78.2	73.5	67.2	59.4

TEST NUMBER: P1213540

CATALOG NUMBER: 4SNLED-LD5-85SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	81.3	81.3	79.8	79.8	78.2	76.6	73.5	71.9	67.2	61.0	53.2
115°	75.1	75.1	75.1	73.5	71.9	70.4	68.8	65.7	61.0	54.7	46.9
117.5°	68.8	68.8	68.8	67.2	65.7	64.1	62.6	59.4	54.7	48.5	42.2
120°	62.6	62.6	62.6	61.0	59.4	57.9	56.3	53.2	48.5	43.8	36.0
122.5°	57.9	57.9	56.3	54.7	53.2	51.6	50.0	46.9	43.8	37.5	31.3
125°	51.6	51.6	50.0	50.0	48.5	46.9	45.4	42.2	37.5	32.8	28.2
127.5°	46.9	45.4	45.4	45.4	43.8	42.2	39.1	37.5	32.8	28.2	23.5
130°	40.7	40.7	40.7	39.1	39.1	37.5	34.4	31.3	28.2	25.0	20.3
132.5°	36.0	36.0	36.0	36.0	34.4	32.8	29.7	28.2	25.0	20.3	17.2
135°	32.8	32.8	31.3	31.3	29.7	28.2	26.6	23.5	20.3	17.2	14.1
137.5°	28.2	28.2	28.2	26.6	26.6	25.0	21.9	20.3	18.8	15.6	12.5
140°	25.0	25.0	23.5	23.5	21.9	21.9	20.3	17.2	15.6	12.5	10.9
142.5°	21.9	21.9	20.3	20.3	18.8	18.8	17.2	15.6	12.5	10.9	7.8
145°	18.8	18.8	17.2	17.2	17.2	15.6	14.1	12.5	10.9	9.4	7.8
147.5°	15.6	15.6	15.6	14.1	14.1	12.5	12.5	10.9	9.4	7.8	6.3
150°	14.1	14.1	12.5	12.5	12.5	10.9	9.4	9.4	7.8	6.3	4.7
152.5°	10.9	10.9	10.9	10.9	9.4	9.4	7.8	7.8	6.3	4.7	4.7
155°	9.4	9.4	9.4	7.8	7.8	7.8	6.3	6.3	4.7	4.7	3.1
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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CATALOG NUMBER: 4SNLED-LD5-85SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8	3027.8
2.5°	3010.6	3009.0	3023.1	3021.5	3002.7	3030.9	3049.7
5°	3002.7	3001.2	3013.7	3016.8	2996.5	3026.2	3046.5
7.5°	2996.5	2994.9	3009.0	3013.7	2993.4	3019.9	3041.8
10°	2998.1	2990.2	3002.7	3005.9	2987.1	3015.3	3034.0
12.5°	3009.0	2990.2	2994.9	2994.9	2977.7	3002.7	3023.1
15°	3035.6	2996.5	2990.2	2985.5	2963.6	2987.1	3007.4
17.5°	3065.3	3012.1	2990.2	2974.6	2948.0	2968.3	2990.2
20°	3095.0	3029.3	2993.4	2968.3	2932.4	2951.1	2966.8
22.5°	3109.1	3045.0	2996.5	2959.0	2913.6	2923.0	2940.2
25°	3090.3	3038.7	2990.2	2944.9	2890.1	2891.7	2905.8
27.5°	3021.5	3007.4	2976.2	2930.8	2871.4	2863.6	2874.5
30°	2904.2	2943.3	2944.9	2912.0	2849.5	2833.8	2838.5
32.5°	2740.0	2827.6	2879.2	2872.9	2818.2	2796.3	2799.4
35°	2550.8	2660.2	2772.8	2810.4	2771.3	2754.1	2747.8
37.5°	2324.0	2471.0	2621.1	2713.4	2707.2	2696.2	2690.0
40°	2073.8	2250.5	2428.8	2575.8	2621.1	2621.1	2624.3
42.5°	1806.3	2012.8	2208.3	2394.4	2500.7	2524.2	2533.6
45°	1548.3	1756.3	1969.0	2183.2	2325.6	2399.1	2425.7
47.5°	1313.7	1523.3	1725.0	1959.6	2148.8	2244.2	2286.5
50°	1113.5	1269.9	1482.6	1715.6	1922.1	2039.4	2122.3
52.5°	947.7	1069.7	1255.8	1473.2	1681.2	1842.3	1918.9
55°	808.6	891.4	1049.4	1237.1	1435.7	1603.0	1692.2
57.5°	691.3	756.9	864.9	1021.2	1188.6	1354.4	1449.8
60°	588.0	633.4	706.9	830.4	972.8	1115.1	1207.4
62.5°	498.9	528.6	577.1	667.8	778.8	889.9	975.9
65°	430.1	442.6	469.2	525.5	609.9	694.4	767.9
67.5°	362.8	370.7	391.0	425.4	467.6	528.6	577.1
70°	312.8	312.8	314.3	334.7	356.6	395.7	430.1
72.5°	272.1	267.4	258.0	262.7	267.4	289.3	311.2
75°	239.3	228.3	212.7	206.4	203.3	206.4	219.0
77.5°	211.1	195.5	176.7	161.1	148.6	143.9	154.8
80°	187.7	168.9	147.0	126.7	106.3	95.4	100.1
82.5°	168.9	145.4	122.0	98.5	75.1	59.4	59.4
85°	148.6	126.7	101.7	76.6	53.2	32.8	29.7
87.5°	134.5	111.0	84.5	61.0	37.5	17.2	9.4
90°	120.4	97.0	71.9	48.5	26.6	7.8	0.0
92.5°	107.9	86.0	62.6	39.1	18.8	4.7	0.0
95°	97.0	76.6	53.2	32.8	15.6	3.1	1.6
97.5°	86.0	67.2	46.9	26.6	10.9	3.1	1.6
100°	78.2	59.4	40.7	21.9	9.4	1.6	1.6
102.5°	68.8	53.2	34.4	18.8	7.8	1.6	1.6
105°	61.0	46.9	29.7	15.6	6.3	1.6	1.6
107.5°	54.7	40.7	26.6	14.1	6.3	1.6	1.6
110°	48.5	36.0	23.5	12.5	4.7	1.6	1.6



TEST NUMBER: P1213540

CATALOG NUMBER: 4SNLED-LD5-85SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	43.8	31.3	20.3	10.9	3.1	1.6	1.6
115°	37.5	28.2	17.2	9.4	3.1	1.6	1.6
117.5°	32.8	23.5	15.6	7.8	3.1	1.6	1.6
120°	28.2	20.3	12.5	6.3	1.6	1.6	1.6
122.5°	25.0	17.2	10.9	6.3	1.6	1.6	1.6
125°	21.9	15.6	9.4	4.7	1.6	1.6	1.6
127.5°	18.8	12.5	7.8	3.1	1.6	1.6	1.6
130°	15.6	10.9	6.3	3.1	1.6	1.6	1.6
132.5°	12.5	9.4	6.3	3.1	1.6	1.6	1.6
135°	10.9	7.8	4.7	3.1	1.6	1.6	1.6
137.5°	9.4	6.3	3.1	3.1	3.1	1.6	1.6
140°	7.8	4.7	3.1	3.1	3.1	3.1	1.6
142.5°	6.3	4.7	3.1	3.1	3.1	3.1	1.6
145°	4.7	3.1	3.1	3.1	3.1	3.1	1.6
147.5°	4.7	3.1	3.1	3.1	3.1	3.1	1.6
150°	3.1	3.1	3.1	3.1	3.1	3.1	3.1
152.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1
155°	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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)