

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: P1213522

Luminaire Tested: 4SNLED-LD5-73SL-LC-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213522
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-LD5-73SL-LC-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

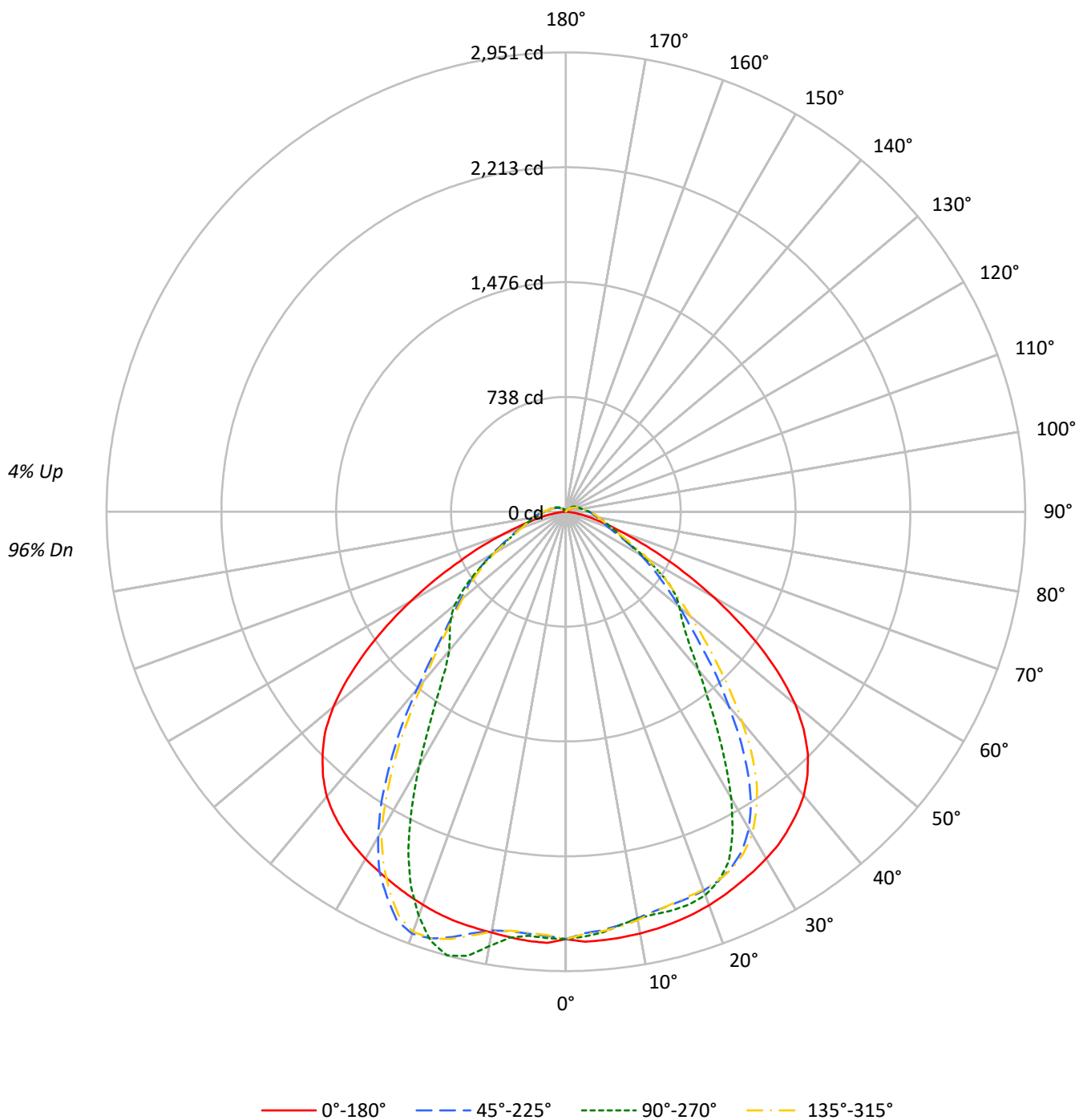
Lumens per Lamp: N/A
Luminaire Lumens: 6544.0 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 70
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

TEST NUMBER: P1213522

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-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
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°	22182	22182	22182	22182
5°	22345	21303	22390	21470
10°	22448	20417	22401	21804
15°	22622	20144	22610	22429
20°	22870	19825	22847	20898
25°	23152	18807	23140	18172
30°	23588	16300	23601	14441
35°	24050	13181	24118	11154
40°	24457	10613	24560	9350
45°	24371	8990	24497	8754
50°	23321	8276	23647	8092
55°	20692	7438	21207	6762
60°	16783	5693	17673	5221
65°	12476	4356	13442	4130
70°	8484	3760	9563	3595
75°	5550	3393	6462	3208
80°	3585	3164	4202	2911
85°	1838	3156	2418	2883

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 24497 cd/sqm

TEST NUMBER: P1213522

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.7	4.0
10°-20°	775.8	11.9
20°-30°	1179.5	18.0
30°-40°	1265.3	19.3
40°-50°	1098.1	16.8
50°-60°	813.8	12.4
60°-70°	466.3	7.1
70°-80°	258.2	3.9
80°-90°	157.2	2.4
90°-100°	102.2	1.6
100°-110°	68.5	1.0
110°-120°	46.2	0.7
120°-130°	28.4	0.4
130°-140°	14.9	0.2
140°-150°	6.8	0.1
150°-160°	2.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2216.0	33.9
0°-40°	3481.3	53.2
0°-60°	5393.2	82.4
0°-90°	6274.9	95.9
90°-120°	217.0	3.3
90°-150°	267.1	4.1
90°-180°	269.0	4.1
0°-180°	6544.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2745	2745	2745	2745	2745	
5°	2762	2712	2768	2734	2762	263
15°	2727	2650	2725	2951	2727	771
25°	2634	2478	2633	2395	2634	1218
35°	2491	1687	2498	1428	2491	1559
45°	2199	1082	2210	1054	2199	1684
55°	1534	811	1572	737	1534	1360
65°	696	411	750	390	696	702
75°	198	261	231	247	198	227
85°	27	180	35	164	27	35
90°	0	150	3	139	0	1
95°	1	123	0	118	1	1
105°	1	92	1	88	1	1
115°	1	75	1	68	1	1
125°	1	57	1	47	1	1
135°	1	35	1	30	1	1
145°	1	21	3	17	1	1
155°	3	10	3	8	3	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

TEST NUMBER: P1213522

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0
2.5°	2764.9	2757.8	2755.0	2749.3	2753.5	2770.6	2759.2	2740.8	2742.2	2709.6	2726.6
5°	2762.1	2753.5	2749.3	2743.6	2746.5	2762.1	2750.7	2732.3	2730.9	2698.3	2713.8
7.5°	2757.8	2749.3	2742.2	2738.0	2739.4	2752.1	2738.0	2716.7	2712.4	2677.0	2691.2
10°	2750.7	2745.0	2735.1	2728.0	2726.6	2740.8	2718.1	2696.8	2686.9	2650.0	2664.2
12.5°	2740.8	2732.3	2722.4	2709.6	2708.2	2716.7	2698.3	2668.5	2658.6	2628.8	2644.4
15°	2726.6	2716.7	2705.3	2691.2	2684.1	2689.7	2667.1	2640.1	2638.7	2613.2	2634.4
17.5°	2711.0	2696.8	2684.1	2664.2	2654.3	2658.6	2640.1	2616.0	2618.8	2603.3	2627.4
20°	2689.7	2674.1	2654.3	2634.4	2620.3	2627.4	2614.6	2596.2	2600.4	2589.1	2610.3
22.5°	2665.6	2644.4	2620.3	2597.6	2586.2	2596.2	2586.2	2570.6	2572.1	2565.0	2577.7
25°	2634.4	2610.3	2582.0	2553.6	2548.0	2555.0	2549.4	2536.6	2530.9	2519.6	2525.3
27.5°	2606.1	2579.1	2543.7	2513.9	2504.0	2518.2	2505.4	2484.1	2468.6	2453.0	2441.6
30°	2573.5	2540.9	2501.2	2467.1	2458.6	2464.3	2445.9	2413.3	2372.1	2352.3	2321.1
32.5°	2538.0	2495.5	2445.9	2407.6	2401.9	2397.7	2363.6	2316.8	2253.0	2213.3	2165.1
35°	2491.2	2444.4	2384.9	2338.1	2329.6	2305.5	2250.2	2187.8	2105.6	2037.5	1955.3
37.5°	2438.8	2383.5	2321.1	2258.7	2234.6	2186.4	2108.4	2043.2	1918.4	1836.2	1736.9
40°	2379.2	2312.6	2236.0	2160.9	2121.2	2043.2	1953.9	1857.4	1736.9	1626.3	1542.7
42.5°	2297.0	2226.1	2135.3	2051.7	1983.6	1880.1	1775.2	1639.1	1528.5	1434.9	1349.8
45°	2199.2	2114.1	2009.2	1908.5	1822.0	1698.6	1575.3	1439.2	1347.0	1237.8	1179.7
47.5°	2073.0	1980.8	1868.8	1756.8	1643.3	1507.2	1378.2	1247.7	1155.6	1077.6	1035.1
50°	1924.1	1839.0	1715.7	1582.4	1457.6	1315.8	1186.8	1088.9	999.6	951.4	918.8
52.5°	1739.8	1660.4	1534.2	1389.5	1269.0	1130.1	1012.4	933.0	869.2	833.7	822.4
55°	1534.2	1464.7	1339.9	1205.2	1081.9	954.2	864.9	795.4	754.3	733.1	734.5
57.5°	1314.4	1260.5	1142.8	1022.3	906.0	809.6	728.8	673.5	642.3	640.9	645.1
60°	1094.6	1054.9	952.8	849.3	747.2	669.2	609.7	571.4	551.6	553.0	551.6
62.5°	884.8	847.9	774.2	689.1	608.3	555.8	501.9	486.3	469.3	467.9	467.9
65°	696.2	667.8	608.3	547.3	486.3	452.3	425.4	406.9	394.2	391.3	392.8
67.5°	523.2	511.9	470.7	429.6	391.3	370.1	347.4	343.1	333.2	333.2	336.0
70°	389.9	381.4	358.7	334.6	319.0	304.8	293.5	293.5	292.1	290.7	297.8
72.5°	282.2	283.6	276.5	258.1	256.6	253.8	251.0	255.2	256.6	260.9	269.4
75°	198.5	202.8	202.8	199.9	205.6	212.7	216.9	224.0	232.5	238.2	248.1
77.5°	140.4	140.4	147.5	156.0	167.3	180.1	191.4	201.3	212.7	219.8	228.3
80°	90.7	95.0	106.3	121.9	137.5	154.6	170.1	182.9	194.3	205.6	211.3
82.5°	53.9	61.0	75.1	95.0	114.8	136.1	151.7	167.3	180.1	191.4	195.7
85°	26.9	36.9	53.9	75.1	96.4	119.1	139.0	153.1	167.3	177.2	182.9
87.5°	8.5	19.9	38.3	58.1	80.8	103.5	124.8	140.4	153.1	161.6	167.3
90°	0.0	9.9	26.9	48.2	69.5	92.2	112.0	129.0	141.8	148.9	153.1
92.5°	0.0	5.7	21.3	39.7	59.6	82.2	102.1	117.7	129.0	136.1	139.0
95°	1.4	4.3	15.6	32.6	52.5	73.7	92.2	106.3	117.7	124.8	126.2
97.5°	1.4	2.8	12.8	26.9	45.4	65.2	83.7	97.8	106.3	113.4	114.8
100°	1.4	2.8	9.9	24.1	39.7	58.1	75.1	87.9	97.8	103.5	104.9
102.5°	1.4	1.4	8.5	19.9	35.4	51.0	66.6	79.4	87.9	93.6	96.4
105°	1.4	1.4	7.1	17.0	31.2	45.4	59.6	72.3	79.4	85.1	87.9
107.5°	1.4	1.4	5.7	14.2	26.9	39.7	53.9	63.8	72.3	78.0	80.8
110°	1.4	1.4	4.3	12.8	22.7	35.4	46.8	56.7	65.2	70.9	73.7

TEST NUMBER: P1213522

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.4	1.4	4.3	11.3	19.9	31.2	41.1	51.0	58.1	63.8	68.1
115°	1.4	1.4	4.3	9.9	18.4	26.9	36.9	45.4	52.5	58.1	62.4
117.5°	1.4	1.4	4.3	8.5	15.6	24.1	32.6	41.1	46.8	52.5	56.7
120°	1.4	1.4	2.8	7.1	14.2	21.3	28.4	35.4	42.5	48.2	52.5
122.5°	1.4	1.4	2.8	7.1	11.3	18.4	25.5	31.2	38.3	42.5	46.8
125°	1.4	1.4	2.8	5.7	9.9	17.0	22.7	28.4	32.6	38.3	42.5
127.5°	1.4	1.4	2.8	5.7	8.5	14.2	19.9	25.5	29.8	34.0	36.9
130°	1.4	1.4	2.8	4.3	7.1	11.3	17.0	21.3	26.9	29.8	32.6
132.5°	1.4	1.4	1.4	4.3	5.7	8.5	12.8	18.4	22.7	26.9	28.4
135°	1.4	1.4	1.4	2.8	5.7	7.1	9.9	14.2	18.4	22.7	25.5
137.5°	1.4	1.4	1.4	2.8	4.3	7.1	8.5	11.3	15.6	18.4	22.7
140°	1.4	1.4	1.4	2.8	4.3	5.7	7.1	9.9	12.8	15.6	18.4
142.5°	1.4	1.4	1.4	2.8	2.8	4.3	5.7	8.5	9.9	12.8	15.6
145°	1.4	1.4	1.4	2.8	2.8	4.3	5.7	7.1	8.5	9.9	12.8
147.5°	1.4	1.4	1.4	2.8	2.8	2.8	4.3	5.7	7.1	8.5	9.9
150°	2.8	2.8	2.8	2.8	2.8	2.8	4.3	4.3	5.7	7.1	8.5
152.5°	2.8	2.8	2.8	2.8	2.8	2.8	4.3	4.3	4.3	5.7	7.1
155°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3	4.3	5.7	5.7
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: P1213522

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0
2.5°	2720.9	2723.8	2740.8	2739.4	2736.5	2733.7	2733.7	2730.9	2733.7	2740.8	2738.0
5°	2706.8	2711.0	2723.8	2722.4	2719.5	2718.1	2716.7	2712.4	2715.3	2725.2	2722.4
7.5°	2681.2	2685.5	2696.8	2691.2	2686.9	2689.7	2682.7	2678.4	2684.1	2694.0	2692.6
10°	2654.3	2657.1	2671.3	2668.5	2661.4	2662.8	2655.7	2652.9	2660.0	2665.6	2667.1
12.5°	2635.9	2645.8	2658.6	2657.1	2655.7	2657.1	2650.0	2647.2	2651.5	2657.1	2655.7
15°	2631.6	2644.4	2658.6	2658.6	2660.0	2661.4	2654.3	2650.0	2654.3	2658.6	2657.1
17.5°	2627.4	2643.0	2655.7	2654.3	2655.7	2658.6	2647.2	2644.4	2650.0	2655.7	2652.9
20°	2613.2	2627.4	2635.9	2633.0	2633.0	2634.4	2620.3	2620.3	2628.8	2633.0	2634.4
22.5°	2573.5	2590.5	2590.5	2583.4	2583.4	2577.7	2573.5	2565.0	2574.9	2582.0	2587.7
25°	2513.9	2521.0	2512.5	2496.9	2488.4	2481.3	2461.5	2478.5	2478.5	2499.7	2506.8
27.5°	2430.3	2414.7	2390.6	2358.0	2350.9	2328.2	2315.4	2319.7	2326.8	2356.5	2379.2
30°	2292.7	2245.9	2204.8	2190.6	2159.5	2136.8	2114.1	2125.4	2138.2	2155.2	2202.0
32.5°	2111.2	2065.9	1999.2	1975.1	1942.5	1914.2	1887.2	1904.2	1926.9	1938.3	1989.3
35°	1902.8	1848.9	1788.0	1746.8	1712.8	1697.2	1663.2	1687.3	1711.4	1719.9	1763.9
37.5°	1681.6	1626.3	1572.4	1537.0	1504.4	1494.5	1471.8	1488.8	1507.2	1520.0	1556.8
40°	1471.8	1420.7	1379.6	1355.5	1332.8	1324.3	1315.8	1322.9	1337.1	1347.0	1375.4
42.5°	1291.7	1250.6	1222.2	1208.0	1192.4	1181.1	1182.5	1185.4	1192.4	1213.7	1226.5
45°	1134.3	1110.2	1091.8	1088.9	1079.0	1077.6	1076.2	1081.9	1086.1	1098.9	1108.8
47.5°	1008.1	998.2	993.9	999.6	1003.9	998.2	1001.0	1008.1	1016.6	1016.6	1015.2
50°	908.9	911.7	917.4	930.1	938.6	941.5	944.3	952.8	954.2	957.1	952.8
52.5°	828.0	830.9	846.5	866.3	876.3	880.5	886.2	894.7	894.7	897.5	891.9
55°	745.8	750.1	765.7	785.5	794.0	799.7	805.4	811.0	815.3	821.0	816.7
57.5°	655.1	667.8	677.8	683.4	689.1	693.3	697.6	699.0	707.5	708.9	716.0
60°	558.7	561.5	571.4	570.0	565.7	577.1	571.4	581.3	591.3	604.0	605.4
62.5°	466.5	467.9	475.0	472.2	477.8	476.4	480.7	480.7	487.8	493.4	500.5
65°	394.2	395.6	401.3	401.3	399.8	404.1	408.4	411.2	411.2	415.4	421.1
67.5°	340.3	344.5	350.2	353.1	355.9	355.9	360.1	361.6	364.4	365.8	368.7
70°	303.4	309.1	314.8	317.6	319.0	321.9	323.3	323.3	326.1	327.5	330.4
72.5°	276.5	282.2	286.4	286.4	289.3	290.7	290.7	292.1	293.5	296.3	299.2
75°	253.8	258.1	260.9	259.5	259.5	259.5	260.9	260.9	263.7	266.6	269.4
77.5°	232.5	236.8	236.8	234.0	234.0	234.0	234.0	235.4	236.8	239.6	242.5
80°	216.9	216.9	215.5	215.5	212.7	211.3	211.3	212.7	212.7	215.5	219.8
82.5°	199.9	199.9	198.5	197.1	195.7	194.3	194.3	195.7	197.1	198.5	201.3
85°	184.3	184.3	181.5	181.5	180.1	180.1	180.1	180.1	181.5	182.9	185.7
87.5°	168.7	167.3	165.9	164.5	164.5	164.5	164.5	164.5	165.9	168.7	170.1
90°	153.1	151.7	150.3	150.3	148.9	148.9	150.3	150.3	151.7	153.1	154.6
92.5°	139.0	137.5	136.1	136.1	134.7	134.7	136.1	134.7	137.5	137.5	139.0
95°	126.2	124.8	123.4	123.4	123.4	123.4	123.4	123.4	124.8	124.8	126.2
97.5°	114.8	113.4	112.0	112.0	113.4	112.0	113.4	113.4	113.4	114.8	116.3
100°	104.9	103.5	103.5	104.9	103.5	103.5	104.9	104.9	104.9	104.9	106.3
102.5°	96.4	96.4	96.4	96.4	96.4	96.4	97.8	97.8	97.8	97.8	99.3
105°	87.9	89.3	89.3	89.3	90.7	90.7	90.7	92.2	92.2	92.2	92.2
107.5°	82.2	83.7	83.7	85.1	85.1	86.5	86.5	86.5	86.5	87.9	87.9
110°	76.6	78.0	79.4	80.8	80.8	82.2	82.2	82.2	82.2	82.2	82.2



TEST NUMBER: P1213522

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	70.9	72.3	73.7	76.6	78.0	78.0	78.0	78.0	79.4	79.4	78.0
115°	65.2	68.1	69.5	72.3	73.7	73.7	75.1	75.1	75.1	75.1	73.7
117.5°	59.6	63.8	65.2	68.1	69.5	69.5	70.9	70.9	70.9	70.9	69.5
120°	55.3	58.1	61.0	62.4	63.8	65.2	65.2	66.6	66.6	66.6	65.2
122.5°	51.0	53.9	56.7	58.1	59.6	61.0	61.0	61.0	61.0	61.0	61.0
125°	45.4	48.2	51.0	52.5	53.9	55.3	55.3	56.7	56.7	56.7	55.3
127.5°	41.1	44.0	45.4	48.2	49.6	49.6	51.0	51.0	51.0	51.0	49.6
130°	35.4	38.3	41.1	42.5	44.0	44.0	45.4	45.4	45.4	45.4	45.4
132.5°	31.2	34.0	35.4	38.3	38.3	39.7	39.7	41.1	41.1	41.1	39.7
135°	28.4	29.8	31.2	34.0	34.0	35.4	35.4	35.4	35.4	35.4	35.4
137.5°	25.5	26.9	28.4	29.8	29.8	31.2	31.2	31.2	31.2	32.6	31.2
140°	21.3	24.1	25.5	25.5	26.9	26.9	26.9	28.4	28.4	28.4	26.9
142.5°	18.4	19.9	21.3	22.7	24.1	24.1	24.1	24.1	25.5	24.1	24.1
145°	14.2	17.0	18.4	19.9	21.3	21.3	21.3	21.3	21.3	21.3	21.3
147.5°	11.3	12.8	15.6	17.0	17.0	18.4	18.4	18.4	18.4	18.4	18.4
150°	9.9	9.9	12.8	14.2	15.6	15.6	15.6	15.6	15.6	15.6	15.6
152.5°	7.1	8.5	9.9	11.3	12.8	12.8	12.8	12.8	12.8	12.8	12.8
155°	7.1	7.1	8.5	8.5	9.9	9.9	9.9	9.9	11.3	9.9	9.9
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: P1213522

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0
2.5°	2733.7	2732.3	2738.0	2732.3	2703.9	2715.3	2711.0	2726.6	2728.0	2732.3	2746.5
5°	2719.5	2719.5	2726.6	2720.9	2694.0	2705.3	2703.9	2719.5	2722.4	2725.2	2740.8
7.5°	2691.2	2692.6	2702.5	2698.3	2669.9	2686.9	2685.5	2703.9	2709.6	2715.3	2729.4
10°	2664.2	2662.8	2674.1	2669.9	2643.0	2662.8	2661.4	2679.8	2688.3	2698.3	2715.3
12.5°	2650.0	2645.8	2650.0	2645.8	2616.0	2631.6	2633.0	2654.3	2664.2	2677.0	2696.8
15°	2650.0	2643.0	2643.0	2634.4	2600.4	2610.3	2611.8	2625.9	2638.7	2651.5	2675.6
17.5°	2647.2	2640.1	2638.7	2631.6	2594.7	2594.7	2593.3	2603.3	2610.3	2623.1	2648.6
20°	2631.6	2628.8	2627.4	2623.1	2589.1	2583.4	2580.6	2580.6	2584.8	2589.1	2614.6
22.5°	2590.5	2593.3	2596.2	2599.0	2572.1	2562.1	2563.6	2560.7	2556.5	2556.5	2577.7
25°	2513.9	2528.1	2539.4	2552.2	2536.6	2529.5	2538.0	2533.8	2526.7	2521.0	2539.4
27.5°	2392.0	2421.8	2445.9	2477.1	2478.5	2472.8	2495.5	2492.7	2491.2	2482.7	2496.9
30°	2223.3	2270.0	2302.7	2348.0	2386.3	2392.0	2430.3	2435.9	2441.6	2437.4	2451.5
32.5°	2019.1	2082.9	2138.2	2209.1	2245.9	2278.6	2332.4	2355.1	2377.8	2384.9	2400.5
35°	1796.5	1868.8	1934.0	2012.0	2070.1	2141.0	2206.2	2240.3	2291.3	2311.2	2333.9
37.5°	1585.2	1653.3	1717.1	1795.1	1888.6	1962.4	2043.2	2119.8	2189.2	2217.6	2251.6
40°	1398.0	1453.3	1514.3	1582.4	1667.4	1763.9	1851.8	1958.1	2040.3	2097.1	2146.7
42.5°	1256.3	1283.2	1335.7	1396.6	1464.7	1562.5	1651.8	1770.9	1870.2	1951.0	2033.3
45°	1130.1	1142.8	1181.1	1213.7	1283.2	1369.7	1464.7	1581.0	1684.5	1788.0	1887.2
47.5°	1022.3	1037.9	1056.3	1076.2	1125.8	1198.1	1280.4	1385.3	1488.8	1609.3	1722.7
50°	950.0	954.2	957.1	965.6	995.4	1045.0	1111.6	1201.0	1300.2	1429.2	1549.8
52.5°	886.2	886.2	877.7	873.4	884.8	916.0	954.2	1018.0	1120.1	1239.2	1366.8
55°	818.1	805.4	802.5	788.3	791.2	805.4	823.8	873.4	957.1	1059.2	1182.5
57.5°	723.1	717.5	717.5	711.8	700.4	707.5	711.8	747.2	806.8	894.7	1002.5
60°	613.9	611.1	618.2	619.6	609.7	613.9	612.5	633.8	676.3	747.2	836.6
62.5°	504.8	517.5	518.9	524.6	518.9	517.5	524.6	543.1	564.3	618.2	687.7
65°	424.0	431.0	432.5	439.5	436.7	436.7	442.4	456.6	469.3	506.2	560.1
67.5°	371.5	368.7	370.1	374.3	370.1	368.7	372.9	381.4	391.3	414.0	452.3
70°	330.4	327.5	327.5	327.5	321.9	317.6	319.0	321.9	326.1	338.9	363.0
72.5°	299.2	299.2	294.9	290.7	286.4	283.6	280.7	277.9	276.5	280.7	293.5
75°	270.8	272.2	270.8	266.6	260.9	255.2	249.5	243.9	236.8	234.0	235.4
77.5°	245.3	246.7	248.1	246.7	241.0	234.0	225.4	216.9	207.0	197.1	191.4
80°	222.6	225.4	226.9	225.4	221.2	215.5	205.6	195.7	181.5	168.7	154.6
82.5°	202.8	207.0	208.4	208.4	205.6	199.9	188.6	177.2	161.6	144.6	126.2
85°	187.2	190.0	192.8	192.8	191.4	185.7	174.4	161.6	146.0	126.2	106.3
87.5°	171.6	173.0	175.8	178.7	175.8	170.1	160.2	146.0	130.4	110.6	87.9
90°	156.0	157.4	160.2	163.1	161.6	156.0	147.5	134.7	117.7	96.4	73.7
92.5°	140.4	143.2	144.6	146.0	147.5	143.2	136.1	123.4	106.3	85.1	63.8
95°	129.0	129.0	131.9	133.3	134.7	130.4	124.8	112.0	96.4	76.6	55.3
97.5°	117.7	117.7	120.5	120.5	121.9	119.1	113.4	102.1	86.5	68.1	46.8
100°	106.3	107.8	109.2	110.6	110.6	109.2	103.5	92.2	78.0	61.0	41.1
102.5°	99.3	99.3	100.7	100.7	102.1	99.3	93.6	83.7	69.5	53.9	35.4
105°	92.2	92.2	93.6	93.6	92.2	89.3	83.7	75.1	62.4	46.8	31.2
107.5°	86.5	86.5	86.5	86.5	85.1	82.2	76.6	66.6	55.3	42.5	28.4
110°	82.2	80.8	80.8	79.4	78.0	73.7	68.1	59.6	49.6	36.9	24.1

TEST NUMBER: P1213522

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	78.0	76.6	75.1	73.7	70.9	66.6	61.0	53.9	44.0	32.6	21.3
115°	73.7	72.3	70.9	68.1	65.2	61.0	55.3	48.2	38.3	28.4	18.4
117.5°	69.5	68.1	65.2	62.4	59.6	55.3	49.6	42.5	34.0	25.5	17.0
120°	63.8	62.4	61.0	58.1	55.3	49.6	44.0	38.3	29.8	22.7	14.2
122.5°	59.6	58.1	55.3	53.9	49.6	45.4	39.7	34.0	26.9	19.9	12.8
125°	53.9	52.5	51.0	48.2	45.4	39.7	35.4	29.8	24.1	17.0	9.9
127.5°	49.6	48.2	45.4	42.5	39.7	35.4	31.2	26.9	21.3	14.2	9.9
130°	44.0	42.5	41.1	38.3	35.4	31.2	28.4	22.7	18.4	12.8	8.5
132.5°	38.3	38.3	36.9	34.0	31.2	28.4	24.1	19.9	15.6	11.3	7.1
135°	35.4	34.0	32.6	29.8	28.4	24.1	21.3	17.0	12.8	9.9	5.7
137.5°	31.2	29.8	28.4	26.9	24.1	21.3	18.4	14.2	11.3	8.5	5.7
140°	26.9	25.5	25.5	22.7	21.3	18.4	15.6	12.8	9.9	7.1	4.3
142.5°	24.1	22.7	21.3	19.9	18.4	15.6	12.8	9.9	8.5	5.7	4.3
145°	21.3	19.9	18.4	17.0	15.6	12.8	11.3	8.5	7.1	5.7	4.3
147.5°	17.0	17.0	15.6	14.2	12.8	11.3	9.9	8.5	5.7	4.3	2.8
150°	14.2	14.2	12.8	11.3	11.3	9.9	8.5	7.1	5.7	4.3	2.8
152.5°	12.8	11.3	11.3	9.9	9.9	8.5	7.1	5.7	4.3	4.3	2.8
155°	9.9	9.9	9.9	8.5	8.5	7.1	5.7	5.7	4.3	2.8	2.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213522

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0
2.5°	2749.3	2732.3	2746.5	2772.0	2769.1	2766.3	2763.5	2769.1	2787.6	2777.7	2762.1
5°	2745.0	2728.0	2743.6	2767.7	2766.3	2762.1	2759.2	2764.9	2783.3	2773.4	2756.4
7.5°	2736.5	2720.9	2732.3	2756.4	2756.4	2753.5	2750.7	2756.4	2773.4	2764.9	2747.9
10°	2722.4	2711.0	2722.4	2745.0	2746.5	2740.8	2738.0	2745.0	2762.1	2757.8	2743.6
12.5°	2711.0	2699.7	2712.4	2735.1	2736.5	2730.9	2726.6	2735.1	2757.8	2760.6	2756.4
15°	2695.4	2685.5	2701.1	2725.2	2725.2	2720.9	2720.9	2732.3	2763.5	2776.2	2783.3
17.5°	2672.7	2665.6	2684.1	2708.2	2709.6	2706.8	2708.2	2730.9	2772.0	2803.2	2823.0
20°	2644.4	2641.5	2661.4	2686.9	2691.2	2692.6	2699.7	2733.7	2790.4	2833.0	2852.8
22.5°	2610.3	2611.8	2634.4	2661.4	2667.1	2671.3	2685.5	2733.7	2804.6	2850.0	2858.5
25°	2572.1	2576.3	2600.4	2633.0	2640.1	2648.6	2672.7	2735.1	2808.8	2838.6	2824.4
27.5°	2530.9	2539.4	2570.6	2604.7	2613.2	2627.4	2658.6	2726.6	2789.0	2790.4	2738.0
30°	2488.4	2498.3	2535.2	2574.9	2589.1	2603.3	2641.5	2706.8	2740.8	2695.4	2603.3
32.5°	2440.2	2454.4	2491.2	2539.4	2556.5	2574.9	2613.2	2668.5	2655.7	2557.9	2426.0
35°	2379.2	2399.1	2441.6	2498.3	2513.9	2538.0	2565.0	2577.7	2521.0	2382.1	2233.2
37.5°	2304.1	2333.9	2383.5	2448.7	2465.7	2481.3	2488.4	2453.0	2339.5	2189.2	2034.7
40°	2217.6	2263.0	2316.8	2389.2	2406.2	2406.2	2380.6	2305.5	2162.3	1965.2	1793.6
42.5°	2112.7	2168.0	2236.0	2308.3	2325.3	2305.5	2244.5	2112.7	1949.6	1729.8	1548.3
45°	1985.1	2058.8	2135.3	2210.5	2219.0	2175.0	2065.9	1898.6	1697.2	1493.0	1320.1
47.5°	1833.3	1929.8	2013.4	2098.5	2087.1	2013.4	1867.4	1677.4	1464.7	1271.9	1132.9
50°	1663.2	1776.6	1870.2	1951.0	1926.9	1824.8	1653.3	1454.8	1243.5	1079.0	964.2
52.5°	1481.7	1612.1	1705.7	1770.9	1738.3	1616.4	1427.8	1237.8	1064.8	914.5	838.0
55°	1293.1	1425.0	1521.4	1572.4	1529.9	1398.0	1212.3	1039.3	876.3	778.4	733.1
57.5°	1110.2	1233.6	1324.3	1365.4	1311.6	1179.7	1008.1	862.1	744.4	662.2	639.5
60°	934.4	1035.1	1121.6	1152.7	1094.6	972.7	825.2	708.9	622.5	565.7	554.4
62.5°	771.3	853.6	921.6	945.7	889.0	794.0	666.4	579.9	518.9	490.6	476.4
65°	636.6	684.8	754.3	750.1	716.0	628.1	534.5	473.6	433.9	415.4	406.9
67.5°	500.5	544.5	588.4	594.1	551.6	490.6	429.6	385.7	364.4	354.5	350.2
70°	387.1	419.7	446.6	439.5	416.9	378.6	340.3	316.2	307.7	303.4	303.4
72.5°	300.6	317.6	330.4	321.9	307.7	287.8	269.4	259.5	260.9	263.7	266.6
75°	232.5	236.8	239.6	231.1	228.3	215.5	214.1	215.5	224.0	232.5	236.8
77.5°	178.7	173.0	168.7	160.2	161.6	160.2	167.3	178.7	191.4	204.2	215.5
80°	137.5	124.8	114.8	106.3	110.6	117.7	131.9	148.9	165.9	180.1	194.3
82.5°	106.3	87.9	73.7	65.2	73.7	85.1	103.5	124.8	144.6	160.2	175.8
85°	82.2	61.0	44.0	35.4	44.0	61.0	80.8	104.9	126.2	143.2	158.8
87.5°	63.8	44.0	24.1	14.2	24.1	42.5	65.2	87.9	109.2	129.0	144.6
90°	51.0	29.8	11.3	2.8	12.8	29.8	51.0	73.7	95.0	116.3	131.9
92.5°	41.1	21.3	5.7	0.0	7.1	22.7	42.5	63.8	85.1	104.9	120.5
95°	34.0	17.0	4.3	0.0	5.7	17.0	34.0	55.3	75.1	95.0	107.8
97.5°	28.4	12.8	2.8	0.0	2.8	14.2	28.4	46.8	66.6	85.1	97.8
100°	24.1	11.3	2.8	0.0	2.8	11.3	24.1	41.1	58.1	75.1	87.9
102.5°	19.9	8.5	1.4	1.4	1.4	8.5	21.3	35.4	51.0	66.6	79.4
105°	18.4	7.1	1.4	1.4	1.4	7.1	18.4	31.2	45.4	59.6	70.9
107.5°	15.6	5.7	1.4	1.4	1.4	5.7	15.6	26.9	41.1	53.9	63.8
110°	12.8	5.7	1.4	1.4	1.4	5.7	12.8	24.1	35.4	46.8	56.7



TEST NUMBER: P1213522

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	11.3	4.3	1.4	1.4	1.4	4.3	11.3	21.3	31.2	42.5	51.0
115°	9.9	4.3	1.4	1.4	1.4	4.3	9.9	18.4	26.9	36.9	45.4
117.5°	8.5	4.3	1.4	1.4	1.4	2.8	8.5	15.6	24.1	32.6	41.1
120°	7.1	2.8	1.4	1.4	1.4	2.8	7.1	14.2	21.3	28.4	35.4
122.5°	7.1	2.8	1.4	1.4	1.4	2.8	5.7	11.3	18.4	24.1	31.2
125°	5.7	2.8	1.4	1.4	1.4	1.4	5.7	9.9	15.6	21.3	26.9
127.5°	5.7	2.8	1.4	1.4	1.4	1.4	4.3	8.5	12.8	18.4	24.1
130°	4.3	2.8	1.4	1.4	1.4	1.4	2.8	7.1	11.3	15.6	19.9
132.5°	4.3	2.8	1.4	1.4	1.4	1.4	2.8	5.7	8.5	12.8	17.0
135°	4.3	1.4	1.4	1.4	1.4	1.4	1.4	4.3	7.1	9.9	12.8
137.5°	2.8	1.4	1.4	1.4	1.4	1.4	1.4	2.8	5.7	7.1	11.3
140°	2.8	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.3	5.7	8.5
142.5°	2.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.3	7.1
145°	2.8	1.4	1.4	2.8	2.8	1.4	1.4	2.8	2.8	4.3	5.7
147.5°	2.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	4.3
150°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3
152.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
155°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213522

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0
2.5°	2759.2	2726.6	2743.6	2738.0	2743.6	2757.8	2756.4	2752.1	2755.0	2747.9	2740.8
5°	2753.5	2720.9	2738.0	2730.9	2738.0	2752.1	2749.3	2745.0	2749.3	2740.8	2733.7
7.5°	2746.5	2716.7	2736.5	2735.1	2747.9	2766.3	2767.7	2767.7	2777.7	2764.9	2759.2
10°	2746.5	2730.9	2757.8	2767.7	2800.3	2824.4	2827.3	2833.0	2850.0	2847.1	2833.0
12.5°	2776.2	2773.4	2813.1	2837.2	2867.0	2901.0	2919.4	2925.1	2936.5	2928.0	2922.3
15°	2814.5	2828.7	2872.7	2899.6	2932.2	2957.7	2962.0	2964.8	2973.3	2960.6	2950.6
17.5°	2865.6	2874.1	2909.5	2920.9	2942.1	2946.4	2940.7	2926.5	2926.5	2898.2	2889.7
20°	2889.7	2885.4	2899.6	2881.2	2872.7	2847.1	2823.0	2796.1	2794.7	2764.9	2762.1
22.5°	2868.4	2840.0	2810.3	2764.9	2745.0	2708.2	2675.6	2660.0	2650.0	2611.8	2601.8
25°	2793.3	2723.8	2679.8	2625.9	2577.7	2535.2	2504.0	2471.4	2440.2	2409.0	2394.8
27.5°	2662.8	2597.6	2526.7	2451.5	2384.9	2319.7	2267.2	2234.6	2204.8	2163.7	2142.4
30°	2502.6	2411.8	2333.9	2261.5	2152.4	2073.0	2029.0	1963.8	1941.1	1922.7	1883.0
32.5°	2314.0	2204.8	2098.5	2000.6	1888.6	1814.9	1756.8	1708.6	1694.4	1646.2	1634.8
35°	2105.6	1962.4	1841.8	1745.4	1664.6	1575.3	1527.1	1494.5	1466.1	1433.5	1427.8
37.5°	1860.3	1731.2	1595.1	1510.1	1446.3	1369.7	1332.8	1310.1	1297.4	1273.3	1269.0
40°	1613.6	1484.5	1391.0	1305.9	1266.2	1225.1	1198.1	1188.2	1182.5	1174.0	1165.5
42.5°	1389.5	1276.1	1209.5	1152.7	1135.7	1115.9	1108.8	1114.5	1108.8	1106.0	1104.5
45°	1199.5	1113.0	1066.3	1049.2	1045.0	1039.3	1045.0	1054.9	1056.3	1053.5	1053.5
47.5°	1026.6	985.4	965.6	968.4	975.5	979.8	989.7	1002.5	1005.3	998.2	1001.0
50°	913.1	889.0	884.8	896.1	911.7	917.4	928.7	938.6	937.2	934.4	931.6
52.5°	806.8	799.7	811.0	822.4	839.4	842.2	846.5	850.7	849.3	843.6	840.8
55°	717.5	723.1	733.1	737.3	750.1	748.6	750.1	750.1	744.4	741.6	737.3
57.5°	636.6	638.1	643.7	645.1	652.2	649.4	648.0	645.1	636.6	635.2	631.0
60°	554.4	551.6	564.3	554.4	560.1	554.4	553.0	545.9	537.4	536.0	533.1
62.5°	476.4	470.7	479.2	475.0	477.8	472.2	469.3	460.8	453.7	452.3	450.9
65°	406.9	404.1	412.6	411.2	414.0	406.9	404.1	398.4	392.8	391.3	389.9
67.5°	348.8	355.9	360.1	360.1	363.0	361.6	354.5	353.1	351.6	346.0	346.0
70°	306.3	310.5	319.0	320.4	319.0	321.9	316.2	314.8	313.4	310.5	309.1
72.5°	272.2	277.9	286.4	287.8	286.4	286.4	283.6	282.2	282.2	277.9	277.9
75°	245.3	252.4	259.5	259.5	259.5	256.6	253.8	253.8	251.0	249.5	246.7
77.5°	222.6	231.1	236.8	235.4	234.0	231.1	231.1	226.9	222.6	222.6	219.8
80°	205.6	211.3	215.5	214.1	212.7	208.4	207.0	202.8	199.9	195.7	195.7
82.5°	187.2	194.3	197.1	195.7	192.8	188.6	187.2	184.3	181.5	180.1	177.2
85°	171.6	178.7	180.1	177.2	174.4	171.6	170.1	168.7	167.3	164.5	164.5
87.5°	156.0	163.1	163.1	161.6	158.8	157.4	156.0	154.6	153.1	151.7	150.3
90°	143.2	148.9	148.9	147.5	146.0	144.6	143.2	141.8	140.4	139.0	139.0
92.5°	130.4	136.1	136.1	134.7	133.3	131.9	131.9	130.4	129.0	127.6	126.2
95°	119.1	124.8	124.8	124.8	123.4	121.9	121.9	120.5	119.1	119.1	117.7
97.5°	107.8	113.4	113.4	113.4	112.0	110.6	110.6	109.2	109.2	109.2	107.8
100°	97.8	102.1	103.5	103.5	102.1	102.1	102.1	100.7	100.7	100.7	99.3
102.5°	87.9	92.2	95.0	95.0	95.0	93.6	93.6	93.6	93.6	93.6	92.2
105°	79.4	83.7	86.5	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
107.5°	72.3	76.6	79.4	80.8	82.2	82.2	83.7	83.7	83.7	83.7	83.7
110°	65.2	69.5	73.7	75.1	76.6	78.0	78.0	79.4	78.0	78.0	78.0

TEST NUMBER: P1213522

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	58.1	63.8	66.6	69.5	70.9	72.3	73.7	73.7	73.7	73.7	73.7
115°	52.5	58.1	61.0	63.8	66.6	68.1	68.1	69.5	69.5	69.5	68.1
117.5°	46.8	52.5	55.3	58.1	59.6	62.4	63.8	63.8	63.8	63.8	62.4
120°	42.5	46.8	49.6	52.5	55.3	56.7	58.1	58.1	58.1	58.1	58.1
122.5°	36.9	41.1	45.4	48.2	49.6	51.0	52.5	52.5	52.5	52.5	52.5
125°	32.6	36.9	39.7	42.5	44.0	46.8	46.8	46.8	46.8	46.8	46.8
127.5°	28.4	32.6	35.4	38.3	39.7	41.1	42.5	42.5	42.5	42.5	42.5
130°	24.1	28.4	31.2	34.0	35.4	36.9	36.9	38.3	38.3	38.3	38.3
132.5°	21.3	24.1	26.9	29.8	31.2	32.6	32.6	34.0	34.0	34.0	34.0
135°	17.0	21.3	22.7	25.5	26.9	28.4	28.4	29.8	29.8	29.8	29.8
137.5°	14.2	17.0	19.9	22.7	24.1	24.1	25.5	25.5	26.9	26.9	26.9
140°	11.3	12.8	17.0	18.4	19.9	21.3	22.7	22.7	22.7	22.7	22.7
142.5°	8.5	11.3	12.8	15.6	17.0	18.4	19.9	19.9	19.9	19.9	19.9
145°	7.1	8.5	9.9	12.8	14.2	15.6	17.0	17.0	17.0	17.0	17.0
147.5°	5.7	7.1	8.5	9.9	11.3	12.8	14.2	14.2	14.2	14.2	14.2
150°	4.3	5.7	7.1	7.1	8.5	9.9	11.3	12.8	12.8	12.8	12.8
152.5°	4.3	4.3	5.7	5.7	7.1	8.5	9.9	9.9	9.9	9.9	9.9
155°	2.8	4.3	4.3	4.3	5.7	5.7	7.1	8.5	8.5	8.5	8.5
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: P1213522

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0
2.5°	2745.0	2750.7	2747.9	2743.6	2742.2	2749.3	2742.2	2709.6	2722.4	2723.8	2733.7
5°	2740.8	2745.0	2742.2	2739.4	2735.1	2743.6	2735.1	2701.1	2713.8	2715.3	2725.2
7.5°	2769.1	2770.6	2770.6	2763.5	2752.1	2756.4	2745.0	2706.8	2713.8	2713.8	2720.9
10°	2840.0	2842.9	2847.1	2828.7	2814.5	2803.2	2787.6	2740.8	2739.4	2728.0	2728.0
12.5°	2932.2	2925.1	2918.0	2909.5	2898.2	2884.0	2861.3	2806.0	2787.6	2769.1	2750.7
15°	2959.1	2956.3	2954.9	2950.6	2943.5	2939.3	2922.3	2867.0	2840.0	2817.4	2784.7
17.5°	2888.2	2893.9	2912.4	2913.8	2922.3	2939.3	2936.5	2898.2	2874.1	2864.1	2824.4
20°	2760.6	2762.1	2784.7	2794.7	2831.5	2859.9	2881.2	2876.9	2871.2	2882.6	2852.8
22.5°	2607.5	2617.4	2641.5	2657.1	2692.6	2725.2	2759.2	2777.7	2807.4	2854.2	2848.5
25°	2399.1	2411.8	2445.9	2471.4	2521.0	2570.6	2616.0	2648.6	2684.1	2773.4	2803.2
27.5°	2149.5	2169.4	2213.3	2238.9	2308.3	2359.4	2424.6	2488.4	2538.0	2640.1	2701.1
30°	1887.2	1904.2	1951.0	1986.5	2046.0	2115.5	2197.7	2288.5	2370.7	2474.2	2550.8
32.5°	1641.9	1660.4	1698.6	1729.8	1796.5	1854.6	1945.4	2057.4	2133.9	2277.1	2379.2
35°	1427.8	1444.8	1471.8	1498.7	1554.0	1613.6	1691.5	1800.7	1898.6	2047.4	2176.5
37.5°	1277.5	1280.4	1296.0	1311.6	1352.7	1398.0	1459.0	1555.4	1646.2	1806.4	1948.2
40°	1169.8	1169.8	1178.3	1182.5	1201.0	1227.9	1266.2	1341.3	1416.5	1538.4	1711.4
42.5°	1103.1	1100.3	1100.3	1101.7	1100.3	1113.0	1135.7	1171.2	1237.8	1338.5	1473.2
45°	1053.5	1047.8	1043.6	1033.6	1028.0	1028.0	1029.4	1042.2	1080.4	1145.7	1254.8
47.5°	998.2	996.8	989.7	978.3	968.4	961.3	950.0	945.7	957.1	993.9	1067.7
50°	934.4	927.3	920.2	911.7	900.4	893.3	872.0	873.4	863.5	880.5	918.8
52.5°	840.8	835.1	832.3	825.2	821.0	818.1	801.1	784.1	779.8	782.7	796.9
55°	737.3	740.1	728.8	734.5	733.1	720.3	713.2	700.4	696.2	694.8	701.9
57.5°	629.5	632.4	625.3	631.0	631.0	623.9	619.6	619.6	609.7	601.2	611.1
60°	531.7	526.0	530.3	537.4	537.4	533.1	530.3	530.3	523.2	520.4	527.5
62.5°	452.3	446.6	450.9	458.0	459.4	456.6	453.7	453.7	445.2	445.2	450.9
65°	391.3	392.8	391.3	397.0	397.0	398.4	395.6	392.8	382.8	387.1	385.7
67.5°	347.4	346.0	346.0	351.6	350.2	353.1	350.2	346.0	338.9	333.2	331.8
70°	310.5	309.1	309.1	311.9	313.4	313.4	311.9	309.1	299.2	293.5	289.3
72.5°	277.9	276.5	277.9	279.3	280.7	282.2	280.7	277.9	269.4	262.3	255.2
75°	248.1	246.7	251.0	251.0	252.4	252.4	253.8	252.4	245.3	236.8	228.3
77.5°	218.4	219.8	224.0	225.4	228.3	229.7	231.1	231.1	224.0	216.9	205.6
80°	194.3	197.1	199.9	201.3	204.2	208.4	209.8	211.3	205.6	198.5	185.7
82.5°	177.2	178.7	181.5	182.9	187.2	188.6	190.0	192.8	190.0	182.9	168.7
85°	163.1	164.5	167.3	167.3	170.1	173.0	174.4	175.8	174.4	167.3	153.1
87.5°	150.3	151.7	153.1	154.6	156.0	157.4	158.8	160.2	158.8	151.7	139.0
90°	139.0	139.0	140.4	140.4	141.8	143.2	146.0	146.0	144.6	139.0	126.2
92.5°	126.2	127.6	127.6	129.0	130.4	131.9	133.3	133.3	131.9	126.2	114.8
95°	117.7	117.7	119.1	119.1	120.5	120.5	121.9	121.9	120.5	114.8	103.5
97.5°	107.8	107.8	107.8	107.8	109.2	109.2	110.6	110.6	109.2	103.5	93.6
100°	99.3	99.3	99.3	99.3	99.3	100.7	100.7	100.7	99.3	93.6	83.7
102.5°	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	89.3	85.1	75.1
105°	87.9	87.9	87.9	86.5	86.5	86.5	85.1	85.1	80.8	76.6	68.1
107.5°	82.2	82.2	82.2	80.8	80.8	79.4	78.0	78.0	73.7	69.5	61.0
110°	78.0	78.0	78.0	76.6	75.1	73.7	72.3	70.9	66.6	61.0	53.9

TEST NUMBER: P1213522

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	73.7	73.7	72.3	72.3	70.9	69.5	66.6	65.2	61.0	55.3	48.2
115°	68.1	68.1	68.1	66.6	65.2	63.8	62.4	59.6	55.3	49.6	42.5
117.5°	62.4	62.4	62.4	61.0	59.6	58.1	56.7	53.9	49.6	44.0	38.3
120°	56.7	56.7	56.7	55.3	53.9	52.5	51.0	48.2	44.0	39.7	32.6
122.5°	52.5	52.5	51.0	49.6	48.2	46.8	45.4	42.5	39.7	34.0	28.4
125°	46.8	46.8	45.4	45.4	44.0	42.5	41.1	38.3	34.0	29.8	25.5
127.5°	42.5	41.1	41.1	41.1	39.7	38.3	35.4	34.0	29.8	25.5	21.3
130°	36.9	36.9	36.9	35.4	35.4	34.0	31.2	28.4	25.5	22.7	18.4
132.5°	32.6	32.6	32.6	32.6	31.2	29.8	26.9	25.5	22.7	18.4	15.6
135°	29.8	29.8	28.4	28.4	26.9	25.5	24.1	21.3	18.4	15.6	12.8
137.5°	25.5	25.5	25.5	24.1	24.1	22.7	19.9	18.4	17.0	14.2	11.3
140°	22.7	22.7	21.3	21.3	19.9	19.9	18.4	15.6	14.2	11.3	9.9
142.5°	19.9	19.9	18.4	18.4	17.0	17.0	15.6	14.2	11.3	9.9	7.1
145°	17.0	17.0	15.6	15.6	15.6	14.2	12.8	11.3	9.9	8.5	7.1
147.5°	14.2	14.2	14.2	12.8	12.8	11.3	11.3	9.9	8.5	7.1	5.7
150°	12.8	12.8	11.3	11.3	11.3	9.9	8.5	8.5	7.1	5.7	4.3
152.5°	9.9	9.9	9.9	9.9	8.5	8.5	7.1	7.1	5.7	4.3	4.3
155°	8.5	8.5	8.5	7.1	7.1	7.1	5.7	5.7	4.3	4.3	2.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213522

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0
2.5°	2729.4	2728.0	2740.8	2739.4	2722.4	2747.9	2764.9
5°	2722.4	2720.9	2732.3	2735.1	2716.7	2743.6	2762.1
7.5°	2716.7	2715.3	2728.0	2732.3	2713.8	2738.0	2757.8
10°	2718.1	2711.0	2722.4	2725.2	2708.2	2733.7	2750.7
12.5°	2728.0	2711.0	2715.3	2715.3	2699.7	2722.4	2740.8
15°	2752.1	2716.7	2711.0	2706.8	2686.9	2708.2	2726.6
17.5°	2779.1	2730.9	2711.0	2696.8	2672.7	2691.2	2711.0
20°	2806.0	2746.5	2713.8	2691.2	2658.6	2675.6	2689.7
22.5°	2818.8	2760.6	2716.7	2682.7	2641.5	2650.0	2665.6
25°	2801.8	2755.0	2711.0	2669.9	2620.3	2621.7	2634.4
27.5°	2739.4	2726.6	2698.3	2657.1	2603.3	2596.2	2606.1
30°	2633.0	2668.5	2669.9	2640.1	2583.4	2569.2	2573.5
32.5°	2484.1	2563.6	2610.3	2604.7	2555.0	2535.2	2538.0
35°	2312.6	2411.8	2513.9	2548.0	2512.5	2496.9	2491.2
37.5°	2107.0	2240.3	2376.4	2460.0	2454.4	2444.4	2438.8
40°	1880.1	2040.3	2202.0	2335.3	2376.4	2376.4	2379.2
42.5°	1637.7	1824.8	2002.1	2170.8	2267.2	2288.5	2297.0
45°	1403.7	1592.3	1785.1	1979.4	2108.4	2175.0	2199.2
47.5°	1191.0	1381.0	1563.9	1776.6	1948.2	2034.7	2073.0
50°	1009.5	1151.3	1344.2	1555.4	1742.6	1848.9	1924.1
52.5°	859.2	969.8	1138.6	1335.7	1524.2	1670.3	1739.8
55°	733.1	808.2	951.4	1121.6	1301.6	1453.3	1534.2
57.5°	626.7	686.3	784.1	925.9	1077.6	1227.9	1314.4
60°	533.1	574.2	640.9	752.9	881.9	1011.0	1094.6
62.5°	452.3	479.2	523.2	605.4	706.1	806.8	884.8
65°	389.9	401.3	425.4	476.4	553.0	629.5	696.2
67.5°	329.0	336.0	354.5	385.7	424.0	479.2	523.2
70°	283.6	283.6	285.0	303.4	323.3	358.7	389.9
72.5°	246.7	242.5	234.0	238.2	242.5	262.3	282.2
75°	216.9	207.0	192.8	187.2	184.3	187.2	198.5
77.5°	191.4	177.2	160.2	146.0	134.7	130.4	140.4
80°	170.1	153.1	133.3	114.8	96.4	86.5	90.7
82.5°	153.1	131.9	110.6	89.3	68.1	53.9	53.9
85°	134.7	114.8	92.2	69.5	48.2	29.8	26.9
87.5°	121.9	100.7	76.6	55.3	34.0	15.6	8.5
90°	109.2	87.9	65.2	44.0	24.1	7.1	0.0
92.5°	97.8	78.0	56.7	35.4	17.0	4.3	0.0
95°	87.9	69.5	48.2	29.8	14.2	2.8	1.4
97.5°	78.0	61.0	42.5	24.1	9.9	2.8	1.4
100°	70.9	53.9	36.9	19.9	8.5	1.4	1.4
102.5°	62.4	48.2	31.2	17.0	7.1	1.4	1.4
105°	55.3	42.5	26.9	14.2	5.7	1.4	1.4
107.5°	49.6	36.9	24.1	12.8	5.7	1.4	1.4
110°	44.0	32.6	21.3	11.3	4.3	1.4	1.4

TEST NUMBER: P1213522

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	39.7	28.4	18.4	9.9	2.8	1.4	1.4
115°	34.0	25.5	15.6	8.5	2.8	1.4	1.4
117.5°	29.8	21.3	14.2	7.1	2.8	1.4	1.4
120°	25.5	18.4	11.3	5.7	1.4	1.4	1.4
122.5°	22.7	15.6	9.9	5.7	1.4	1.4	1.4
125°	19.9	14.2	8.5	4.3	1.4	1.4	1.4
127.5°	17.0	11.3	7.1	2.8	1.4	1.4	1.4
130°	14.2	9.9	5.7	2.8	1.4	1.4	1.4
132.5°	11.3	8.5	5.7	2.8	1.4	1.4	1.4
135°	9.9	7.1	4.3	2.8	1.4	1.4	1.4
137.5°	8.5	5.7	2.8	2.8	2.8	1.4	1.4
140°	7.1	4.3	2.8	2.8	2.8	2.8	1.4
142.5°	5.7	4.3	2.8	2.8	2.8	2.8	1.4
145°	4.3	2.8	2.8	2.8	2.8	2.8	1.4
147.5°	4.3	2.8	2.8	2.8	2.8	2.8	1.4
150°	2.8	2.8	2.8	2.8	2.8	2.8	2.8
152.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8
155°	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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)