

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: P1213873

Luminaire Tested: 4SNLED-LD5-73SL-LC-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213873
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-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

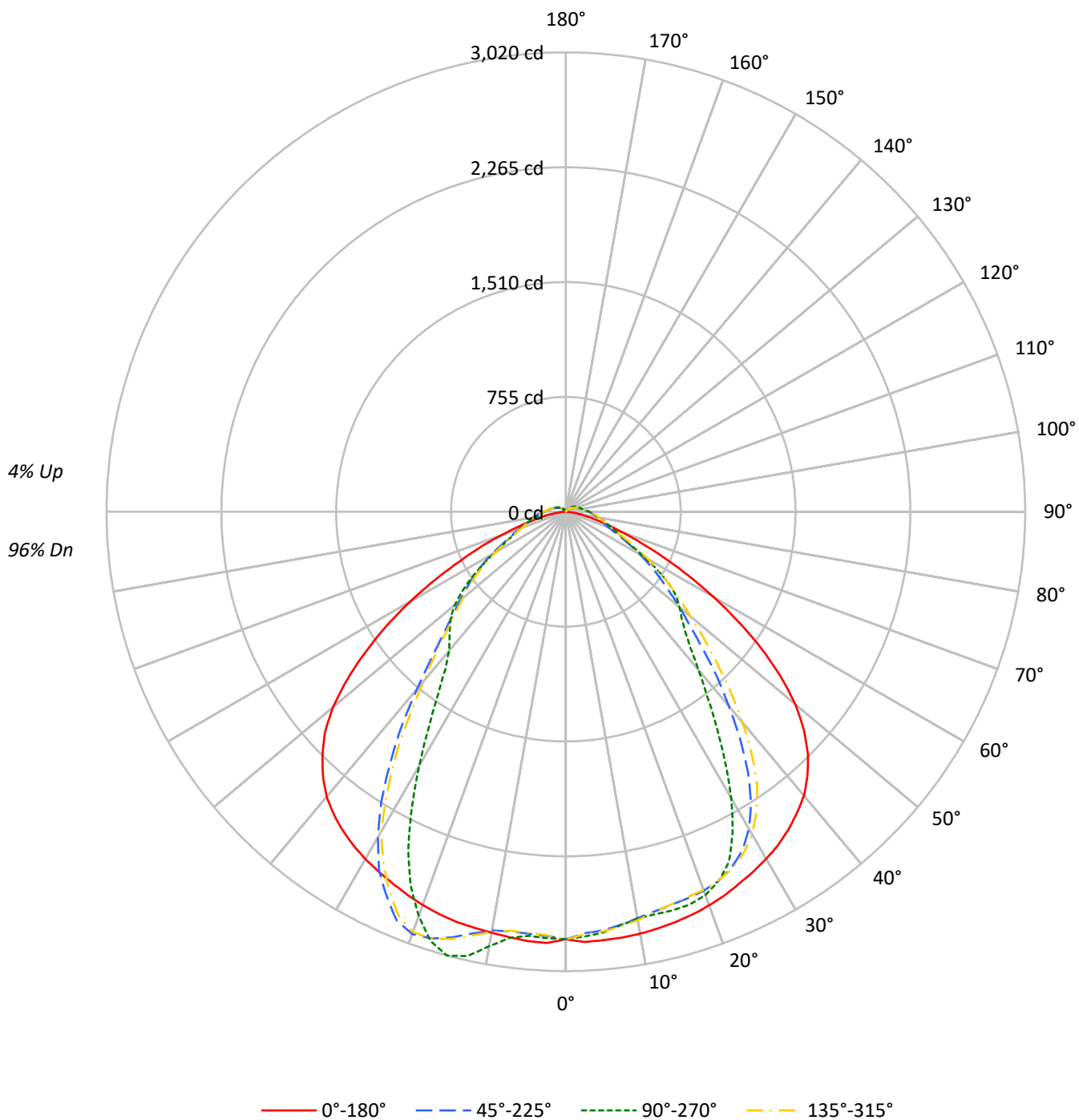
Lumens per Lamp: N/A
Luminaire Lumens: 6699.0 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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

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CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L940-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°	22708	22708	22708	22708
5°	22874	21808	22921	21979
10°	22980	20901	22932	22320
15°	23158	20621	23145	22960
20°	23413	20294	23387	21393
25°	23700	19253	23688	18602
30°	24146	16686	24160	14783
35°	24619	13493	24690	11418
40°	25037	10864	25141	9571
45°	24948	9202	25077	8961
50°	23874	8472	24207	8283
55°	21181	7614	21710	6923
60°	17180	5829	18093	5346
65°	12772	4459	13759	4229
70°	8686	3849	9792	3680
75°	5682	3473	6616	3285
80°	3672	3238	4305	2979
85°	1886	3230	2480	2951

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 25077 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.9	4.0
10°-20°	794.2	11.9
20°-30°	1207.4	18.0
30°-40°	1295.2	19.3
40°-50°	1124.1	16.8
50°-60°	833.1	12.4
60°-70°	477.3	7.1
70°-80°	264.3	3.9
80°-90°	161.0	2.4
90°-100°	104.7	1.6
100°-110°	70.1	1.0
110°-120°	47.3	0.7
120°-130°	29.0	0.4
130°-140°	15.3	0.2
140°-150°	7.0	0.1
150°-160°	2.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2268.5	33.9
0°-40°	3563.7	53.2
0°-60°	5520.9	82.4
0°-90°	6423.6	95.9
90°-120°	222.1	3.3
90°-150°	273.4	4.1
90°-180°	275.0	4.1
0°-180°	6699.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2810	2810	2810	2810	2810	
5°	2828	2777	2833	2798	2828	269
15°	2791	2713	2790	3020	2791	790
25°	2697	2537	2695	2452	2697	1247
35°	2550	1727	2558	1462	2550	1596
45°	2251	1108	2263	1078	2251	1724
55°	1570	830	1610	755	1570	1393
65°	713	421	768	399	713	718
75°	203	267	237	253	203	232
85°	28	184	36	168	28	36
90°	0	154	3	142	0	1
95°	2	126	0	120	2	1
105°	2	94	2	90	2	2
115°	2	77	2	70	2	1
125°	2	58	2	48	2	1
135°	2	36	2	30	2	1
145°	2	22	3	17	2	1
155°	3	10	3	9	3	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1
2.5°	2830.4	2823.1	2820.2	2814.4	2818.8	2836.2	2824.6	2805.7	2807.2	2773.8	2791.2
5°	2827.5	2818.8	2814.4	2808.6	2811.5	2827.5	2815.9	2797.0	2795.5	2762.2	2778.1
7.5°	2823.1	2814.4	2807.2	2802.8	2804.3	2817.3	2802.8	2781.0	2776.7	2740.4	2754.9
10°	2815.9	2810.1	2799.9	2792.6	2791.2	2805.7	2782.5	2760.7	2750.5	2712.8	2727.3
12.5°	2805.7	2797.0	2786.8	2773.8	2772.3	2781.0	2762.2	2731.7	2721.5	2691.0	2707.0
15°	2791.2	2781.0	2769.4	2754.9	2747.6	2753.5	2730.2	2702.7	2701.2	2675.1	2696.8
17.5°	2775.2	2760.7	2747.6	2727.3	2717.2	2721.5	2702.7	2678.0	2680.9	2664.9	2689.6
20°	2753.5	2737.5	2717.2	2696.8	2682.3	2689.6	2676.5	2657.7	2662.0	2650.4	2672.2
22.5°	2728.8	2707.0	2682.3	2659.1	2647.5	2657.7	2647.5	2631.5	2633.0	2625.7	2638.8
25°	2696.8	2672.2	2643.1	2614.1	2608.3	2615.6	2609.8	2596.7	2590.9	2579.3	2585.1
27.5°	2667.8	2640.2	2604.0	2573.5	2563.3	2577.8	2564.8	2543.0	2527.0	2511.1	2499.4
30°	2634.4	2601.0	2560.4	2525.6	2516.9	2522.7	2503.8	2470.4	2428.3	2408.0	2376.1
32.5°	2598.1	2554.6	2503.8	2464.6	2458.8	2454.4	2419.6	2371.7	2306.4	2265.8	2216.4
35°	2550.2	2502.3	2441.4	2393.5	2384.8	2360.1	2303.5	2239.6	2155.4	2085.8	2001.6
37.5°	2496.5	2439.9	2376.1	2312.2	2287.5	2238.2	2158.3	2091.6	1963.8	1879.7	1778.1
40°	2435.6	2367.4	2289.0	2212.1	2171.4	2091.6	2000.1	1901.4	1778.1	1664.8	1579.2
42.5°	2351.4	2278.8	2185.9	2100.3	2030.6	1924.7	1817.2	1677.9	1564.7	1468.9	1381.8
45°	2251.2	2164.2	2056.7	1953.7	1865.1	1738.9	1612.6	1473.2	1378.9	1267.1	1207.6
47.5°	2122.1	2027.7	1913.0	1798.4	1682.3	1542.9	1410.8	1277.3	1183.0	1103.1	1059.6
50°	1969.7	1882.6	1756.3	1619.8	1492.1	1347.0	1214.9	1114.7	1023.3	973.9	940.6
52.5°	1781.0	1699.7	1570.5	1422.4	1299.1	1156.8	1036.4	955.1	889.8	853.5	841.9
55°	1570.5	1499.4	1371.6	1233.8	1107.5	976.8	885.4	814.3	772.2	750.4	751.9
57.5°	1345.5	1290.4	1169.9	1046.5	927.5	828.8	746.1	689.5	657.5	656.1	660.4
60°	1120.5	1079.9	975.4	869.4	764.9	685.1	624.1	584.9	564.6	566.1	564.6
62.5°	905.7	868.0	792.5	705.4	622.7	569.0	513.8	497.9	480.4	479.0	479.0
65°	712.7	683.6	622.7	560.3	497.9	463.0	435.4	416.6	403.5	400.6	402.1
67.5°	535.6	524.0	481.9	439.8	400.6	378.8	355.6	351.3	341.1	341.1	344.0
70°	399.2	390.4	367.2	342.5	326.6	312.1	300.5	300.5	299.0	297.6	304.8
72.5°	288.8	290.3	283.0	264.2	262.7	259.8	256.9	261.3	262.7	267.1	275.8
75°	203.2	207.6	207.6	204.7	210.5	217.7	222.1	229.3	238.0	243.8	254.0
77.5°	143.7	143.7	151.0	159.7	171.3	184.3	195.9	206.1	217.7	225.0	233.7
80°	92.9	97.2	108.9	124.8	140.8	158.2	174.2	187.2	198.9	210.5	216.3
82.5°	55.2	62.4	76.9	97.2	117.6	139.3	155.3	171.3	184.3	195.9	200.3
85°	27.6	37.7	55.2	76.9	98.7	121.9	142.2	156.8	171.3	181.4	187.2
87.5°	8.7	20.3	39.2	59.5	82.7	106.0	127.7	143.7	156.8	165.5	171.3
90°	0.0	10.2	27.6	49.4	71.1	94.3	114.7	132.1	145.1	152.4	156.8
92.5°	0.0	5.8	21.8	40.6	61.0	84.2	104.5	120.5	132.1	139.3	142.2
95°	1.5	4.4	16.0	33.4	53.7	75.5	94.3	108.9	120.5	127.7	129.2
97.5°	1.5	2.9	13.1	27.6	46.4	66.8	85.6	100.2	108.9	116.1	117.6
100°	1.5	2.9	10.2	24.7	40.6	59.5	76.9	90.0	100.2	106.0	107.4
102.5°	1.5	1.5	8.7	20.3	36.3	52.3	68.2	81.3	90.0	95.8	98.7
105°	1.5	1.5	7.3	17.4	31.9	46.4	61.0	74.0	81.3	87.1	90.0
107.5°	1.5	1.5	5.8	14.5	27.6	40.6	55.2	65.3	74.0	79.8	82.7
110°	1.5	1.5	4.4	13.1	23.2	36.3	47.9	58.1	66.8	72.6	75.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.5	1.5	4.4	11.6	20.3	31.9	42.1	52.3	59.5	65.3	69.7
115°	1.5	1.5	4.4	10.2	18.9	27.6	37.7	46.4	53.7	59.5	63.9
117.5°	1.5	1.5	4.4	8.7	16.0	24.7	33.4	42.1	47.9	53.7	58.1
120°	1.5	1.5	2.9	7.3	14.5	21.8	29.0	36.3	43.5	49.4	53.7
122.5°	1.5	1.5	2.9	7.3	11.6	18.9	26.1	31.9	39.2	43.5	47.9
125°	1.5	1.5	2.9	5.8	10.2	17.4	23.2	29.0	33.4	39.2	43.5
127.5°	1.5	1.5	2.9	5.8	8.7	14.5	20.3	26.1	30.5	34.8	37.7
130°	1.5	1.5	2.9	4.4	7.3	11.6	17.4	21.8	27.6	30.5	33.4
132.5°	1.5	1.5	1.5	4.4	5.8	8.7	13.1	18.9	23.2	27.6	29.0
135°	1.5	1.5	1.5	2.9	5.8	7.3	10.2	14.5	18.9	23.2	26.1
137.5°	1.5	1.5	1.5	2.9	4.4	7.3	8.7	11.6	16.0	18.9	23.2
140°	1.5	1.5	1.5	2.9	4.4	5.8	7.3	10.2	13.1	16.0	18.9
142.5°	1.5	1.5	1.5	2.9	2.9	4.4	5.8	8.7	10.2	13.1	16.0
145°	1.5	1.5	1.5	2.9	2.9	4.4	5.8	7.3	8.7	10.2	13.1
147.5°	1.5	1.5	1.5	2.9	2.9	2.9	4.4	5.8	7.3	8.7	10.2
150°	2.9	2.9	2.9	2.9	2.9	2.9	4.4	4.4	5.8	7.3	8.7
152.5°	2.9	2.9	2.9	2.9	2.9	2.9	4.4	4.4	4.4	5.8	7.3
155°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.4	4.4	5.8	5.8
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

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1
2.5°	2785.4	2788.3	2805.7	2804.3	2801.4	2798.4	2798.4	2795.5	2798.4	2805.7	2802.8
5°	2770.9	2775.2	2788.3	2786.8	2783.9	2782.5	2781.0	2776.7	2779.6	2789.7	2786.8
7.5°	2744.7	2749.1	2760.7	2754.9	2750.5	2753.5	2746.2	2741.8	2747.6	2757.8	2756.4
10°	2717.2	2720.1	2734.6	2731.7	2724.4	2725.9	2718.6	2715.7	2723.0	2728.8	2730.2
12.5°	2698.3	2708.5	2721.5	2720.1	2718.6	2720.1	2712.8	2709.9	2714.3	2720.1	2718.6
15°	2693.9	2707.0	2721.5	2721.5	2723.0	2724.4	2717.2	2712.8	2717.2	2721.5	2720.1
17.5°	2689.6	2705.6	2718.6	2717.2	2718.6	2721.5	2709.9	2707.0	2712.8	2718.6	2715.7
20°	2675.1	2689.6	2698.3	2695.4	2695.4	2696.8	2682.3	2682.3	2691.0	2695.4	2696.8
22.5°	2634.4	2651.8	2651.8	2644.6	2644.6	2638.8	2634.4	2625.7	2635.9	2643.1	2648.9
25°	2573.5	2580.7	2572.0	2556.1	2547.3	2540.1	2519.8	2537.2	2537.2	2559.0	2566.2
27.5°	2487.8	2471.9	2447.2	2413.8	2406.5	2383.3	2370.3	2374.6	2381.9	2412.4	2435.6
30°	2347.0	2299.1	2257.0	2242.5	2210.6	2187.4	2164.2	2175.8	2188.8	2206.2	2254.1
32.5°	2161.3	2114.8	2046.6	2021.9	1988.5	1959.5	1931.9	1949.3	1972.6	1984.2	2036.4
35°	1947.9	1892.7	1830.3	1788.2	1753.4	1737.4	1702.6	1727.3	1751.9	1760.6	1805.6
37.5°	1721.5	1664.8	1609.7	1573.4	1540.0	1529.9	1506.6	1524.1	1542.9	1556.0	1593.7
40°	1506.6	1454.4	1412.3	1387.6	1364.4	1355.7	1347.0	1354.2	1368.7	1378.9	1407.9
42.5°	1322.3	1280.2	1251.2	1236.7	1220.7	1209.1	1210.5	1213.4	1220.7	1242.5	1255.5
45°	1161.2	1136.5	1117.6	1114.7	1104.6	1103.1	1101.7	1107.5	1111.8	1124.9	1135.1
47.5°	1032.0	1021.8	1017.5	1023.3	1027.6	1021.8	1024.7	1032.0	1040.7	1040.7	1039.3
50°	930.4	933.3	939.1	952.2	960.9	963.8	966.7	975.4	976.8	979.7	975.4
52.5°	847.7	850.6	866.5	886.9	897.0	901.4	907.2	915.9	915.9	918.8	913.0
55°	763.5	767.8	783.8	804.1	812.8	818.6	824.4	830.2	834.6	840.4	836.1
57.5°	670.6	683.6	693.8	699.6	705.4	709.8	714.1	715.6	724.3	725.7	733.0
60°	571.9	574.8	584.9	583.5	579.1	590.8	584.9	595.1	605.3	618.3	619.8
62.5°	477.5	479.0	486.2	483.3	489.1	487.7	492.1	492.1	499.3	505.1	512.4
65°	403.5	405.0	410.8	410.8	409.3	413.7	418.0	420.9	420.9	425.3	431.1
67.5°	348.4	352.7	358.5	361.4	364.3	364.3	368.7	370.1	373.0	374.5	377.4
70°	310.6	316.4	322.2	325.1	326.6	329.5	330.9	330.9	333.8	335.3	338.2
72.5°	283.0	288.8	293.2	293.2	296.1	297.6	297.6	299.0	300.5	303.4	306.3
75°	259.8	264.2	267.1	265.6	265.6	265.6	267.1	267.1	270.0	272.9	275.8
77.5°	238.0	242.4	242.4	239.5	239.5	239.5	239.5	240.9	242.4	245.3	248.2
80°	222.1	222.1	220.6	220.6	217.7	216.3	216.3	217.7	217.7	220.6	225.0
82.5°	204.7	204.7	203.2	201.8	200.3	198.9	198.9	200.3	201.8	203.2	206.1
85°	188.7	188.7	185.8	185.8	184.3	184.3	184.3	184.3	185.8	187.2	190.1
87.5°	172.7	171.3	169.8	168.4	168.4	168.4	168.4	168.4	169.8	172.7	174.2
90°	156.8	155.3	153.9	153.9	152.4	152.4	153.9	153.9	155.3	156.8	158.2
92.5°	142.2	140.8	139.3	139.3	137.9	137.9	139.3	137.9	140.8	140.8	142.2
95°	129.2	127.7	126.3	126.3	126.3	126.3	126.3	126.3	127.7	127.7	129.2
97.5°	117.6	116.1	114.7	114.7	116.1	114.7	116.1	116.1	116.1	117.6	119.0
100°	107.4	106.0	106.0	107.4	106.0	106.0	107.4	107.4	107.4	107.4	108.9
102.5°	98.7	98.7	98.7	98.7	98.7	98.7	100.2	100.2	100.2	100.2	101.6
105°	90.0	91.4	91.4	91.4	92.9	92.9	92.9	94.3	94.3	94.3	94.3
107.5°	84.2	85.6	85.6	87.1	87.1	88.5	88.5	88.5	88.5	90.0	90.0
110°	78.4	79.8	81.3	82.7	82.7	84.2	84.2	84.2	84.2	84.2	84.2

TEST NUMBER: P1213873

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	72.6	74.0	75.5	78.4	79.8	79.8	79.8	79.8	81.3	81.3	79.8
115°	66.8	69.7	71.1	74.0	75.5	75.5	76.9	76.9	76.9	76.9	75.5
117.5°	61.0	65.3	66.8	69.7	71.1	71.1	72.6	72.6	72.6	72.6	71.1
120°	56.6	59.5	62.4	63.9	65.3	66.8	66.8	68.2	68.2	68.2	66.8
122.5°	52.3	55.2	58.1	59.5	61.0	62.4	62.4	62.4	62.4	62.4	62.4
125°	46.4	49.4	52.3	53.7	55.2	56.6	56.6	58.1	58.1	58.1	56.6
127.5°	42.1	45.0	46.4	49.4	50.8	50.8	52.3	52.3	52.3	52.3	50.8
130°	36.3	39.2	42.1	43.5	45.0	45.0	46.4	46.4	46.4	46.4	46.4
132.5°	31.9	34.8	36.3	39.2	39.2	40.6	40.6	42.1	42.1	42.1	40.6
135°	29.0	30.5	31.9	34.8	34.8	36.3	36.3	36.3	36.3	36.3	36.3
137.5°	26.1	27.6	29.0	30.5	30.5	31.9	31.9	31.9	31.9	33.4	31.9
140°	21.8	24.7	26.1	26.1	27.6	27.6	27.6	29.0	29.0	29.0	27.6
142.5°	18.9	20.3	21.8	23.2	24.7	24.7	24.7	24.7	26.1	24.7	24.7
145°	14.5	17.4	18.9	20.3	21.8	21.8	21.8	21.8	21.8	21.8	21.8
147.5°	11.6	13.1	16.0	17.4	17.4	18.9	18.9	18.9	18.9	18.9	18.9
150°	10.2	10.2	13.1	14.5	16.0	16.0	16.0	16.0	16.0	16.0	16.0
152.5°	7.3	8.7	10.2	11.6	13.1	13.1	13.1	13.1	13.1	13.1	13.1
155°	7.3	7.3	8.7	8.7	10.2	10.2	10.2	10.2	11.6	10.2	10.2
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213873

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1
2.5°	2798.4	2797.0	2802.8	2797.0	2768.0	2779.6	2775.2	2791.2	2792.6	2797.0	2811.5
5°	2783.9	2783.9	2791.2	2785.4	2757.8	2769.4	2768.0	2783.9	2786.8	2789.7	2805.7
7.5°	2754.9	2756.4	2766.5	2762.2	2733.1	2750.5	2749.1	2768.0	2773.8	2779.6	2794.1
10°	2727.3	2725.9	2737.5	2733.1	2705.6	2725.9	2724.4	2743.3	2752.0	2762.2	2779.6
12.5°	2712.8	2708.5	2712.8	2708.5	2678.0	2693.9	2695.4	2717.2	2727.3	2740.4	2760.7
15°	2712.8	2705.6	2705.6	2696.8	2662.0	2672.2	2673.6	2688.1	2701.2	2714.3	2738.9
17.5°	2709.9	2702.7	2701.2	2693.9	2656.2	2656.2	2654.8	2664.9	2672.2	2685.2	2711.4
20°	2693.9	2691.0	2689.6	2685.2	2650.4	2644.6	2641.7	2641.7	2646.0	2650.4	2676.5
22.5°	2651.8	2654.8	2657.7	2660.6	2633.0	2622.8	2624.3	2621.4	2617.0	2617.0	2638.8
25°	2573.5	2588.0	2599.6	2612.7	2596.7	2589.4	2598.1	2593.8	2586.5	2580.7	2599.6
27.5°	2448.6	2479.1	2503.8	2535.7	2537.2	2531.4	2554.6	2551.7	2550.2	2541.5	2556.1
30°	2275.9	2323.8	2357.2	2403.6	2442.8	2448.6	2487.8	2493.6	2499.4	2495.1	2509.6
32.5°	2066.9	2132.2	2188.8	2261.4	2299.1	2332.5	2387.7	2410.9	2434.1	2441.4	2457.4
35°	1839.0	1913.0	1979.8	2059.6	2119.2	2191.7	2258.5	2293.3	2345.6	2365.9	2389.1
37.5°	1622.8	1692.4	1757.7	1837.6	1933.4	2008.8	2091.6	2170.0	2241.1	2270.1	2304.9
40°	1431.2	1487.8	1550.2	1619.8	1706.9	1805.6	1895.6	2004.5	2088.7	2146.7	2197.5
42.5°	1286.0	1313.6	1367.3	1429.7	1499.4	1599.5	1691.0	1812.9	1914.5	1997.2	2081.4
45°	1156.8	1169.9	1209.1	1242.5	1313.6	1402.1	1499.4	1618.4	1724.4	1830.3	1931.9
47.5°	1046.5	1062.5	1081.4	1101.7	1152.5	1226.5	1310.7	1418.1	1524.1	1647.4	1763.5
50°	972.5	976.8	979.7	988.5	1018.9	1069.7	1138.0	1229.4	1331.0	1463.1	1586.5
52.5°	907.2	907.2	898.5	894.1	905.7	937.7	976.8	1042.2	1146.7	1268.6	1399.2
55°	837.5	824.4	821.5	807.0	809.9	824.4	843.3	894.1	979.7	1084.3	1210.5
57.5°	740.3	734.4	734.4	728.6	717.0	724.3	728.6	764.9	825.9	915.9	1026.2
60°	628.5	625.6	632.8	634.3	624.1	628.5	627.0	648.8	692.4	764.9	856.4
62.5°	516.7	529.8	531.2	537.0	531.2	529.8	537.0	555.9	577.7	632.8	704.0
65°	434.0	441.2	442.7	450.0	447.1	447.1	452.9	467.4	480.4	518.2	573.3
67.5°	380.3	377.4	378.8	383.2	378.8	377.4	381.7	390.4	400.6	423.8	463.0
70°	338.2	335.3	335.3	335.3	329.5	325.1	326.6	329.5	333.8	346.9	371.6
72.5°	306.3	306.3	301.9	297.6	293.2	290.3	287.4	284.5	283.0	287.4	300.5
75°	277.2	278.7	277.2	272.9	267.1	261.3	255.5	249.7	242.4	239.5	240.9
77.5°	251.1	252.6	254.0	252.6	246.8	239.5	230.8	222.1	211.9	201.8	195.9
80°	227.9	230.8	232.2	230.8	226.4	220.6	210.5	200.3	185.8	172.7	158.2
82.5°	207.6	211.9	213.4	213.4	210.5	204.7	193.0	181.4	165.5	148.1	129.2
85°	191.6	194.5	197.4	197.4	195.9	190.1	178.5	165.5	149.5	129.2	108.9
87.5°	175.6	177.1	180.0	182.9	180.0	174.2	164.0	149.5	133.5	113.2	90.0
90°	159.7	161.1	164.0	166.9	165.5	159.7	151.0	137.9	120.5	98.7	75.5
92.5°	143.7	146.6	148.1	149.5	151.0	146.6	139.3	126.3	108.9	87.1	65.3
95°	132.1	132.1	135.0	136.4	137.9	133.5	127.7	114.7	98.7	78.4	56.6
97.5°	120.5	120.5	123.4	123.4	124.8	121.9	116.1	104.5	88.5	69.7	47.9
100°	108.9	110.3	111.8	113.2	113.2	111.8	106.0	94.3	79.8	62.4	42.1
102.5°	101.6	101.6	103.1	103.1	104.5	101.6	95.8	85.6	71.1	55.2	36.3
105°	94.3	94.3	95.8	95.8	94.3	91.4	85.6	76.9	63.9	47.9	31.9
107.5°	88.5	88.5	88.5	88.5	87.1	84.2	78.4	68.2	56.6	43.5	29.0
110°	84.2	82.7	82.7	81.3	79.8	75.5	69.7	61.0	50.8	37.7	24.7



TEST NUMBER: P1213873

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	79.8	78.4	76.9	75.5	72.6	68.2	62.4	55.2	45.0	33.4	21.8
115°	75.5	74.0	72.6	69.7	66.8	62.4	56.6	49.4	39.2	29.0	18.9
117.5°	71.1	69.7	66.8	63.9	61.0	56.6	50.8	43.5	34.8	26.1	17.4
120°	65.3	63.9	62.4	59.5	56.6	50.8	45.0	39.2	30.5	23.2	14.5
122.5°	61.0	59.5	56.6	55.2	50.8	46.4	40.6	34.8	27.6	20.3	13.1
125°	55.2	53.7	52.3	49.4	46.4	40.6	36.3	30.5	24.7	17.4	10.2
127.5°	50.8	49.4	46.4	43.5	40.6	36.3	31.9	27.6	21.8	14.5	10.2
130°	45.0	43.5	42.1	39.2	36.3	31.9	29.0	23.2	18.9	13.1	8.7
132.5°	39.2	39.2	37.7	34.8	31.9	29.0	24.7	20.3	16.0	11.6	7.3
135°	36.3	34.8	33.4	30.5	29.0	24.7	21.8	17.4	13.1	10.2	5.8
137.5°	31.9	30.5	29.0	27.6	24.7	21.8	18.9	14.5	11.6	8.7	5.8
140°	27.6	26.1	26.1	23.2	21.8	18.9	16.0	13.1	10.2	7.3	4.4
142.5°	24.7	23.2	21.8	20.3	18.9	16.0	13.1	10.2	8.7	5.8	4.4
145°	21.8	20.3	18.9	17.4	16.0	13.1	11.6	8.7	7.3	5.8	4.4
147.5°	17.4	17.4	16.0	14.5	13.1	11.6	10.2	8.7	5.8	4.4	2.9
150°	14.5	14.5	13.1	11.6	11.6	10.2	8.7	7.3	5.8	4.4	2.9
152.5°	13.1	11.6	11.6	10.2	10.2	8.7	7.3	5.8	4.4	4.4	2.9
155°	10.2	10.2	10.2	8.7	8.7	7.3	5.8	5.8	4.4	2.9	2.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213873

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1
2.5°	2814.4	2797.0	2811.5	2837.6	2834.7	2831.8	2828.9	2834.7	2853.6	2843.4	2827.5
5°	2810.1	2792.6	2808.6	2833.3	2831.8	2827.5	2824.6	2830.4	2849.3	2839.1	2821.7
7.5°	2801.4	2785.4	2797.0	2821.7	2821.7	2818.8	2815.9	2821.7	2839.1	2830.4	2813.0
10°	2786.8	2775.2	2786.8	2810.1	2811.5	2805.7	2802.8	2810.1	2827.5	2823.1	2808.6
12.5°	2775.2	2763.6	2776.7	2799.9	2801.4	2795.5	2791.2	2799.9	2823.1	2826.0	2821.7
15°	2759.3	2749.1	2765.1	2789.7	2789.7	2785.4	2785.4	2797.0	2828.9	2842.0	2849.3
17.5°	2736.0	2728.8	2747.6	2772.3	2773.8	2770.9	2772.3	2795.5	2837.6	2869.6	2889.9
20°	2707.0	2704.1	2724.4	2750.5	2754.9	2756.4	2763.6	2798.4	2856.5	2900.1	2920.4
22.5°	2672.2	2673.6	2696.8	2724.4	2730.2	2734.6	2749.1	2798.4	2871.0	2917.5	2926.2
25°	2633.0	2637.3	2662.0	2695.4	2702.7	2711.4	2736.0	2799.9	2875.4	2905.9	2891.3
27.5°	2590.9	2599.6	2631.5	2666.4	2675.1	2689.6	2721.5	2791.2	2855.1	2856.5	2802.8
30°	2547.3	2557.5	2595.2	2635.9	2650.4	2664.9	2704.1	2770.9	2805.7	2759.3	2664.9
32.5°	2498.0	2512.5	2550.2	2599.6	2617.0	2635.9	2675.1	2731.7	2718.6	2618.5	2483.5
35°	2435.6	2455.9	2499.4	2557.5	2573.5	2598.1	2625.7	2638.8	2580.7	2438.5	2286.1
37.5°	2358.7	2389.1	2439.9	2506.7	2524.1	2540.1	2547.3	2511.1	2394.9	2241.1	2082.9
40°	2270.1	2316.6	2371.7	2445.7	2463.2	2463.2	2437.0	2360.1	2213.5	2011.7	1836.1
42.5°	2162.7	2219.3	2289.0	2363.0	2380.4	2360.1	2297.7	2162.7	1995.8	1770.8	1585.0
45°	2032.1	2107.5	2185.9	2262.9	2271.6	2226.6	2114.8	1943.5	1737.4	1528.4	1351.3
47.5°	1876.8	1975.5	2061.1	2148.2	2136.6	2061.1	1911.6	1717.1	1499.4	1302.0	1159.7
50°	1702.6	1818.7	1914.5	1997.2	1972.6	1868.1	1692.4	1489.2	1272.9	1104.6	987.0
52.5°	1516.8	1650.3	1746.1	1812.9	1779.5	1654.7	1461.6	1267.1	1090.1	936.2	857.8
55°	1323.7	1458.7	1557.4	1609.7	1566.1	1431.2	1241.0	1063.9	897.0	796.9	750.4
57.5°	1136.5	1262.8	1355.7	1397.8	1342.6	1207.6	1032.0	882.5	762.0	677.8	654.6
60°	956.5	1059.6	1148.1	1180.1	1120.5	995.7	844.8	725.7	637.2	579.1	567.5
62.5°	789.6	873.8	943.5	968.1	910.1	812.8	682.2	593.7	531.2	502.2	487.7
65°	651.7	701.1	772.2	767.8	733.0	643.0	547.2	484.8	444.2	425.3	416.6
67.5°	512.4	557.4	602.4	608.2	564.6	502.2	439.8	394.8	373.0	362.9	358.5
70°	396.3	429.6	457.2	450.0	426.7	387.5	348.4	323.7	315.0	310.6	310.6
72.5°	307.7	325.1	338.2	329.5	315.0	294.6	275.8	265.6	267.1	270.0	272.9
75°	238.0	242.4	245.3	236.6	233.7	220.6	219.2	220.6	229.3	238.0	242.4
77.5°	182.9	177.1	172.7	164.0	165.5	164.0	171.3	182.9	195.9	209.0	220.6
80°	140.8	127.7	117.6	108.9	113.2	120.5	135.0	152.4	169.8	184.3	198.9
82.5°	108.9	90.0	75.5	66.8	75.5	87.1	106.0	127.7	148.1	164.0	180.0
85°	84.2	62.4	45.0	36.3	45.0	62.4	82.7	107.4	129.2	146.6	162.6
87.5°	65.3	45.0	24.7	14.5	24.7	43.5	66.8	90.0	111.8	132.1	148.1
90°	52.3	30.5	11.6	2.9	13.1	30.5	52.3	75.5	97.2	119.0	135.0
92.5°	42.1	21.8	5.8	0.0	7.3	23.2	43.5	65.3	87.1	107.4	123.4
95°	34.8	17.4	4.4	0.0	5.8	17.4	34.8	56.6	76.9	97.2	110.3
97.5°	29.0	13.1	2.9	0.0	2.9	14.5	29.0	47.9	68.2	87.1	100.2
100°	24.7	11.6	2.9	0.0	2.9	11.6	24.7	42.1	59.5	76.9	90.0
102.5°	20.3	8.7	1.5	1.5	1.5	8.7	21.8	36.3	52.3	68.2	81.3
105°	18.9	7.3	1.5	1.5	1.5	7.3	18.9	31.9	46.4	61.0	72.6
107.5°	16.0	5.8	1.5	1.5	1.5	5.8	16.0	27.6	42.1	55.2	65.3
110°	13.1	5.8	1.5	1.5	1.5	5.8	13.1	24.7	36.3	47.9	58.1

TEST NUMBER: P1213873

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	11.6	4.4	1.5	1.5	1.5	4.4	11.6	21.8	31.9	43.5	52.3
115°	10.2	4.4	1.5	1.5	1.5	4.4	10.2	18.9	27.6	37.7	46.4
117.5°	8.7	4.4	1.5	1.5	1.5	2.9	8.7	16.0	24.7	33.4	42.1
120°	7.3	2.9	1.5	1.5	1.5	2.9	7.3	14.5	21.8	29.0	36.3
122.5°	7.3	2.9	1.5	1.5	1.5	2.9	5.8	11.6	18.9	24.7	31.9
125°	5.8	2.9	1.5	1.5	1.5	1.5	5.8	10.2	16.0	21.8	27.6
127.5°	5.8	2.9	1.5	1.5	1.5	1.5	4.4	8.7	13.1	18.9	24.7
130°	4.4	2.9	1.5	1.5	1.5	1.5	2.9	7.3	11.6	16.0	20.3
132.5°	4.4	2.9	1.5	1.5	1.5	1.5	2.9	5.8	8.7	13.1	17.4
135°	4.4	1.5	1.5	1.5	1.5	1.5	1.5	4.4	7.3	10.2	13.1
137.5°	2.9	1.5	1.5	1.5	1.5	1.5	1.5	2.9	5.8	7.3	11.6
140°	2.9	1.5	1.5	1.5	1.5	1.5	1.5	2.9	4.4	5.8	8.7
142.5°	2.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.9	4.4	7.3
145°	2.9	1.5	1.5	2.9	2.9	1.5	1.5	2.9	2.9	4.4	5.8
147.5°	2.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.9	2.9	4.4
150°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.4
152.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
155°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213873

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1
2.5°	2824.6	2791.2	2808.6	2802.8	2808.6	2823.1	2821.7	2817.3	2820.2	2813.0	2805.7
5°	2818.8	2785.4	2802.8	2795.5	2802.8	2817.3	2814.4	2810.1	2814.4	2805.7	2798.4
7.5°	2811.5	2781.0	2801.4	2799.9	2813.0	2831.8	2833.3	2833.3	2843.4	2830.4	2824.6
10°	2811.5	2795.5	2823.1	2833.3	2866.7	2891.3	2894.2	2900.1	2917.5	2914.6	2900.1
12.5°	2842.0	2839.1	2879.7	2904.4	2934.9	2969.7	2988.6	2994.4	3006.0	2997.3	2991.5
15°	2881.2	2895.7	2940.7	2968.3	3001.7	3027.8	3032.1	3035.0	3043.7	3030.7	3020.5
17.5°	2933.4	2942.1	2978.4	2990.0	3011.8	3016.2	3010.4	2995.8	2995.8	2966.8	2958.1
20°	2958.1	2953.8	2968.3	2949.4	2940.7	2914.6	2889.9	2862.3	2860.9	2830.4	2827.5
22.5°	2936.3	2907.3	2876.8	2830.4	2810.1	2772.3	2738.9	2723.0	2712.8	2673.6	2663.5
25°	2859.4	2788.3	2743.3	2688.1	2638.8	2595.2	2563.3	2529.9	2498.0	2466.1	2451.5
27.5°	2725.9	2659.1	2586.5	2509.6	2441.4	2374.6	2320.9	2287.5	2257.0	2215.0	2193.2
30°	2561.9	2469.0	2389.1	2315.1	2203.3	2122.1	2077.1	2010.3	1987.1	1968.2	1927.6
32.5°	2368.8	2257.0	2148.2	2048.0	1933.4	1857.9	1798.4	1749.0	1734.5	1685.2	1673.6
35°	2155.4	2008.8	1885.5	1786.8	1704.0	1612.6	1563.2	1529.9	1500.8	1467.4	1461.6
37.5°	1904.3	1772.3	1632.9	1545.8	1480.5	1402.1	1364.4	1341.2	1328.1	1303.4	1299.1
40°	1651.8	1519.7	1423.9	1336.8	1296.2	1254.1	1226.5	1216.3	1210.5	1201.8	1193.1
42.5°	1422.4	1306.3	1238.1	1180.1	1162.6	1142.3	1135.1	1140.9	1135.1	1132.2	1130.7
45°	1228.0	1139.4	1091.5	1074.1	1069.7	1063.9	1069.7	1079.9	1081.4	1078.4	1078.4
47.5°	1050.9	1008.8	988.5	991.4	998.6	1003.0	1013.1	1026.2	1029.1	1021.8	1024.7
50°	934.8	910.1	905.7	917.3	933.3	939.1	950.7	960.9	959.4	956.5	953.6
52.5°	825.9	818.6	830.2	841.9	859.3	862.2	866.5	870.9	869.4	863.6	860.7
55°	734.4	740.3	750.4	754.8	767.8	766.4	767.8	767.8	762.0	759.1	754.8
57.5°	651.7	653.2	659.0	660.4	667.7	664.8	663.3	660.4	651.7	650.3	645.9
60°	567.5	564.6	577.7	567.5	573.3	567.5	566.1	558.8	550.1	548.7	545.8
62.5°	487.7	481.9	490.6	486.2	489.1	483.3	480.4	471.7	464.5	463.0	461.6
65°	416.6	413.7	422.4	420.9	423.8	416.6	413.7	407.9	402.1	400.6	399.2
67.5°	357.1	364.3	368.7	368.7	371.6	370.1	362.9	361.4	360.0	354.2	354.2
70°	313.5	317.9	326.6	328.0	326.6	329.5	323.7	322.2	320.8	317.9	316.4
72.5°	278.7	284.5	293.2	294.6	293.2	293.2	290.3	288.8	288.8	284.5	284.5
75°	251.1	258.4	265.6	265.6	265.6	262.7	259.8	259.8	256.9	255.5	252.6
77.5°	227.9	236.6	242.4	240.9	239.5	236.6	236.6	232.2	227.9	227.9	225.0
80°	210.5	216.3	220.6	219.2	217.7	213.4	211.9	207.6	204.7	200.3	200.3
82.5°	191.6	198.9	201.8	200.3	197.4	193.0	191.6	188.7	185.8	184.3	181.4
85°	175.6	182.9	184.3	181.4	178.5	175.6	174.2	172.7	171.3	168.4	168.4
87.5°	159.7	166.9	166.9	165.5	162.6	161.1	159.7	158.2	156.8	155.3	153.9
90°	146.6	152.4	152.4	151.0	149.5	148.1	146.6	145.1	143.7	142.2	142.2
92.5°	133.5	139.3	139.3	137.9	136.4	135.0	135.0	133.5	132.1	130.6	129.2
95°	121.9	127.7	127.7	127.7	126.3	124.8	124.8	123.4	121.9	121.9	120.5
97.5°	110.3	116.1	116.1	116.1	114.7	113.2	113.2	111.8	111.8	111.8	110.3
100°	100.2	104.5	106.0	106.0	104.5	104.5	104.5	103.1	103.1	103.1	101.6
102.5°	90.0	94.3	97.2	97.2	97.2	95.8	95.8	95.8	95.8	95.8	94.3
105°	81.3	85.6	88.5	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
107.5°	74.0	78.4	81.3	82.7	84.2	84.2	85.6	85.6	85.6	85.6	85.6
110°	66.8	71.1	75.5	76.9	78.4	79.8	79.8	81.3	79.8	79.8	79.8

TEST NUMBER: P1213873

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	59.5	65.3	68.2	71.1	72.6	74.0	75.5	75.5	75.5	75.5	75.5
115°	53.7	59.5	62.4	65.3	68.2	69.7	69.7	71.1	71.1	71.1	69.7
117.5°	47.9	53.7	56.6	59.5	61.0	63.9	65.3	65.3	65.3	65.3	63.9
120°	43.5	47.9	50.8	53.7	56.6	58.1	59.5	59.5	59.5	59.5	59.5
122.5°	37.7	42.1	46.4	49.4	50.8	52.3	53.7	53.7	53.7	53.7	53.7
125°	33.4	37.7	40.6	43.5	45.0	47.9	47.9	47.9	47.9	47.9	47.9
127.5°	29.0	33.4	36.3	39.2	40.6	42.1	43.5	43.5	43.5	43.5	43.5
130°	24.7	29.0	31.9	34.8	36.3	37.7	37.7	39.2	39.2	39.2	39.2
132.5°	21.8	24.7	27.6	30.5	31.9	33.4	33.4	34.8	34.8	34.8	34.8
135°	17.4	21.8	23.2	26.1	27.6	29.0	29.0	30.5	30.5	30.5	30.5
137.5°	14.5	17.4	20.3	23.2	24.7	24.7	26.1	26.1	27.6	27.6	27.6
140°	11.6	13.1	17.4	18.9	20.3	21.8	23.2	23.2	23.2	23.2	23.2
142.5°	8.7	11.6	13.1	16.0	17.4	18.9	20.3	20.3	20.3	20.3	20.3
145°	7.3	8.7	10.2	13.1	14.5	16.0	17.4	17.4	17.4	17.4	17.4
147.5°	5.8	7.3	8.7	10.2	11.6	13.1	14.5	14.5	14.5	14.5	14.5
150°	4.4	5.8	7.3	7.3	8.7	10.2	11.6	13.1	13.1	13.1	13.1
152.5°	4.4	4.4	5.8	5.8	7.3	8.7	10.2	10.2	10.2	10.2	10.2
155°	2.9	4.4	4.4	4.4	5.8	5.8	7.3	8.7	8.7	8.7	8.7
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: P1213873

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1
2.5°	2810.1	2815.9	2813.0	2808.6	2807.2	2814.4	2807.2	2773.8	2786.8	2788.3	2798.4
5°	2805.7	2810.1	2807.2	2804.3	2799.9	2808.6	2799.9	2765.1	2778.1	2779.6	2789.7
7.5°	2834.7	2836.2	2836.2	2828.9	2817.3	2821.7	2810.1	2770.9	2778.1	2778.1	2785.4
10°	2907.3	2910.2	2914.6	2895.7	2881.2	2869.6	2853.6	2805.7	2804.3	2792.6	2792.6
12.5°	3001.7	2994.4	2987.1	2978.4	2966.8	2952.3	2929.1	2872.5	2853.6	2834.7	2815.9
15°	3029.2	3026.3	3024.9	3020.5	3013.3	3008.9	2991.5	2934.9	2907.3	2884.1	2850.7
17.5°	2956.7	2962.5	2981.3	2982.8	2991.5	3008.9	3006.0	2966.8	2942.1	2932.0	2891.3
20°	2826.0	2827.5	2850.7	2860.9	2898.6	2927.6	2949.4	2945.0	2939.2	2950.9	2920.4
22.5°	2669.3	2679.4	2704.1	2720.1	2756.4	2789.7	2824.6	2843.4	2873.9	2921.8	2916.0
25°	2455.9	2469.0	2503.8	2529.9	2580.7	2631.5	2678.0	2711.4	2747.6	2839.1	2869.6
27.5°	2200.4	2220.8	2265.8	2291.9	2363.0	2415.3	2482.0	2547.3	2598.1	2702.7	2765.1
30°	1931.9	1949.3	1997.2	2033.5	2094.5	2165.6	2249.8	2342.7	2426.9	2532.8	2611.2
32.5°	1680.8	1699.7	1738.9	1770.8	1839.0	1898.5	1991.4	2106.1	2184.5	2331.1	2435.6
35°	1461.6	1479.1	1506.6	1534.2	1590.8	1651.8	1731.6	1843.4	1943.5	2095.9	2228.0
37.5°	1307.8	1310.7	1326.7	1342.6	1384.7	1431.2	1493.6	1592.3	1685.2	1849.2	1994.3
40°	1197.5	1197.5	1206.2	1210.5	1229.4	1257.0	1296.2	1373.1	1450.0	1574.9	1751.9
42.5°	1129.2	1126.3	1126.3	1127.8	1126.3	1139.4	1162.6	1198.9	1267.1	1370.2	1508.1
45°	1078.4	1072.6	1068.3	1058.1	1052.3	1052.3	1053.8	1066.8	1106.0	1172.8	1284.6
47.5°	1021.8	1020.4	1013.1	1001.5	991.4	984.1	972.5	968.1	979.7	1017.5	1093.0
50°	956.5	949.3	942.0	933.3	921.7	914.4	892.7	894.1	883.9	901.4	940.6
52.5°	860.7	854.9	852.0	844.8	840.4	837.5	820.1	802.7	798.3	801.2	815.7
55°	754.8	757.7	746.1	751.9	750.4	737.4	730.1	717.0	712.7	711.2	718.5
57.5°	644.5	647.4	640.1	645.9	645.9	638.7	634.3	634.3	624.1	615.4	625.6
60°	544.3	538.5	542.9	550.1	550.1	545.8	542.9	542.9	535.6	532.7	539.9
62.5°	463.0	457.2	461.6	468.8	470.3	467.4	464.5	464.5	455.8	455.8	461.6
65°	400.6	402.1	400.6	406.4	406.4	407.9	405.0	402.1	391.9	396.3	394.8
67.5°	355.6	354.2	354.2	360.0	358.5	361.4	358.5	354.2	346.9	341.1	339.6
70°	317.9	316.4	316.4	319.3	320.8	320.8	319.3	316.4	306.3	300.5	296.1
72.5°	284.5	283.0	284.5	285.9	287.4	288.8	287.4	284.5	275.8	268.5	261.3
75°	254.0	252.6	256.9	256.9	258.4	258.4	259.8	258.4	251.1	242.4	233.7
77.5°	223.5	225.0	229.3	230.8	233.7	235.1	236.6	236.6	229.3	222.1	210.5
80°	198.9	201.8	204.7	206.1	209.0	213.4	214.8	216.3	210.5	203.2	190.1
82.5°	181.4	182.9	185.8	187.2	191.6	193.0	194.5	197.4	194.5	187.2	172.7
85°	166.9	168.4	171.3	171.3	174.2	177.1	178.5	180.0	178.5	171.3	156.8
87.5°	153.9	155.3	156.8	158.2	159.7	161.1	162.6	164.0	162.6	155.3	142.2
90°	142.2	142.2	143.7	143.7	145.1	146.6	149.5	149.5	148.1	142.2	129.2
92.5°	129.2	130.6	130.6	132.1	133.5	135.0	136.4	136.4	135.0	129.2	117.6
95°	120.5	120.5	121.9	121.9	123.4	123.4	124.8	124.8	123.4	117.6	106.0
97.5°	110.3	110.3	110.3	110.3	111.8	111.8	113.2	113.2	111.8	106.0	95.8
100°	101.6	101.6	101.6	101.6	101.6	103.1	103.1	103.1	101.6	95.8	85.6
102.5°	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	91.4	87.1	76.9
105°	90.0	90.0	90.0	88.5	88.5	88.5	87.1	87.1	82.7	78.4	69.7
107.5°	84.2	84.2	84.2	82.7	82.7	81.3	79.8	79.8	75.5	71.1	62.4
110°	79.8	79.8	79.8	78.4	76.9	75.5	74.0	72.6	68.2	62.4	55.2



TEST NUMBER: P1213873

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	75.5	75.5	74.0	74.0	72.6	71.1	68.2	66.8	62.4	56.6	49.4
115°	69.7	69.7	69.7	68.2	66.8	65.3	63.9	61.0	56.6	50.8	43.5
117.5°	63.9	63.9	63.9	62.4	61.0	59.5	58.1	55.2	50.8	45.0	39.2
120°	58.1	58.1	58.1	56.6	55.2	53.7	52.3	49.4	45.0	40.6	33.4
122.5°	53.7	53.7	52.3	50.8	49.4	47.9	46.4	43.5	40.6	34.8	29.0
125°	47.9	47.9	46.4	46.4	45.0	43.5	42.1	39.2	34.8	30.5	26.1
127.5°	43.5	42.1	42.1	42.1	40.6	39.2	36.3	34.8	30.5	26.1	21.8
130°	37.7	37.7	37.7	36.3	36.3	34.8	31.9	29.0	26.1	23.2	18.9
132.5°	33.4	33.4	33.4	33.4	31.9	30.5	27.6	26.1	23.2	18.9	16.0
135°	30.5	30.5	29.0	29.0	27.6	26.1	24.7	21.8	18.9	16.0	13.1
137.5°	26.1	26.1	26.1	24.7	24.7	23.2	20.3	18.9	17.4	14.5	11.6
140°	23.2	23.2	21.8	21.8	20.3	20.3	18.9	16.0	14.5	11.6	10.2
142.5°	20.3	20.3	18.9	18.9	17.4	17.4	16.0	14.5	11.6	10.2	7.3
145°	17.4	17.4	16.0	16.0	16.0	14.5	13.1	11.6	10.2	8.7	7.3
147.5°	14.5	14.5	14.5	13.1	13.1	11.6	11.6	10.2	8.7	7.3	5.8
150°	13.1	13.1	11.6	11.6	11.6	10.2	8.7	8.7	7.3	5.8	4.4
152.5°	10.2	10.2	10.2	10.2	8.7	8.7	7.3	7.3	5.8	4.4	4.4
155°	8.7	8.7	8.7	7.3	7.3	7.3	5.8	5.8	4.4	4.4	2.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213873

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1	2810.1
2.5°	2794.1	2792.6	2805.7	2804.3	2786.8	2813.0	2830.4
5°	2786.8	2785.4	2797.0	2799.9	2781.0	2808.6	2827.5
7.5°	2781.0	2779.6	2792.6	2797.0	2778.1	2802.8	2823.1
10°	2782.5	2775.2	2786.8	2789.7	2772.3	2798.4	2815.9
12.5°	2792.6	2775.2	2779.6	2779.6	2763.6	2786.8	2805.7
15°	2817.3	2781.0	2775.2	2770.9	2750.5	2772.3	2791.2
17.5°	2844.9	2795.5	2775.2	2760.7	2736.0	2754.9	2775.2
20°	2872.5	2811.5	2778.1	2754.9	2721.5	2738.9	2753.5
22.5°	2885.5	2826.0	2781.0	2746.2	2704.1	2712.8	2728.8
25°	2868.1	2820.2	2775.2	2733.1	2682.3	2683.8	2696.8
27.5°	2804.3	2791.2	2762.2	2720.1	2664.9	2657.7	2667.8
30°	2695.4	2731.7	2733.1	2702.7	2644.6	2630.1	2634.4
32.5°	2543.0	2624.3	2672.2	2666.4	2615.6	2595.2	2598.1
35°	2367.4	2469.0	2573.5	2608.3	2572.0	2556.1	2550.2
37.5°	2156.9	2293.3	2432.7	2518.3	2512.5	2502.3	2496.5
40°	1924.7	2088.7	2254.1	2390.6	2432.7	2432.7	2435.6
42.5°	1676.5	1868.1	2049.5	2222.2	2320.9	2342.7	2351.4
45°	1437.0	1630.0	1827.4	2026.3	2158.3	2226.6	2251.2
47.5°	1219.2	1413.7	1601.0	1818.7	1994.3	2082.9	2122.1
50°	1033.5	1178.6	1376.0	1592.3	1783.9	1892.7	1969.7
52.5°	879.6	992.8	1165.5	1367.3	1560.3	1709.8	1781.0
55°	750.4	827.3	973.9	1148.1	1332.5	1487.8	1570.5
57.5°	641.6	702.5	802.7	947.8	1103.1	1257.0	1345.5
60°	545.8	587.8	656.1	770.7	902.8	1034.9	1120.5
62.5°	463.0	490.6	535.6	619.8	722.8	825.9	905.7
65°	399.2	410.8	435.4	487.7	566.1	644.5	712.7
67.5°	336.7	344.0	362.9	394.8	434.0	490.6	535.6
70°	290.3	290.3	291.7	310.6	330.9	367.2	399.2
72.5°	252.6	248.2	239.5	243.8	248.2	268.5	288.8
75°	222.1	211.9	197.4	191.6	188.7	191.6	203.2
77.5°	195.9	181.4	164.0	149.5	137.9	133.5	143.7
80°	174.2	156.8	136.4	117.6	98.7	88.5	92.9
82.5°	156.8	135.0	113.2	91.4	69.7	55.2	55.2
85°	137.9	117.6	94.3	71.1	49.4	30.5	27.6
87.5°	124.8	103.1	78.4	56.6	34.8	16.0	8.7
90°	111.8	90.0	66.8	45.0	24.7	7.3	0.0
92.5°	100.2	79.8	58.1	36.3	17.4	4.4	0.0
95°	90.0	71.1	49.4	30.5	14.5	2.9	1.5
97.5°	79.8	62.4	43.5	24.7	10.2	2.9	1.5
100°	72.6	55.2	37.7	20.3	8.7	1.5	1.5
102.5°	63.9	49.4	31.9	17.4	7.3	1.5	1.5
105°	56.6	43.5	27.6	14.5	5.8	1.5	1.5
107.5°	50.8	37.7	24.7	13.1	5.8	1.5	1.5
110°	45.0	33.4	21.8	11.6	4.4	1.5	1.5

TEST NUMBER: P1213873

CATALOG NUMBER: 4SNLED-LD5-73SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	40.6	29.0	18.9	10.2	2.9	1.5	1.5
115°	34.8	26.1	16.0	8.7	2.9	1.5	1.5
117.5°	30.5	21.8	14.5	7.3	2.9	1.5	1.5
120°	26.1	18.9	11.6	5.8	1.5	1.5	1.5
122.5°	23.2	16.0	10.2	5.8	1.5	1.5	1.5
125°	20.3	14.5	8.7	4.4	1.5	1.5	1.5
127.5°	17.4	11.6	7.3	2.9	1.5	1.5	1.5
130°	14.5	10.2	5.8	2.9	1.5	1.5	1.5
132.5°	11.6	8.7	5.8	2.9	1.5	1.5	1.5
135°	10.2	7.3	4.4	2.9	1.5	1.5	1.5
137.5°	8.7	5.8	2.9	2.9	2.9	1.5	1.5
140°	7.3	4.4	2.9	2.9	2.9	2.9	1.5
142.5°	5.8	4.4	2.9	2.9	2.9	2.9	1.5
145°	4.4	2.9	2.9	2.9	2.9	2.9	1.5
147.5°	4.4	2.9	2.9	2.9	2.9	2.9	1.5
150°	2.9	2.9	2.9	2.9	2.9	2.9	2.9
152.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9
155°	2.9	2.9	2.9	2.9	2.9	2.9	2.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)