

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: P1213144

Luminaire Tested: 4SNLED-LD5-62SL-RM-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33524)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-62SL-RM-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

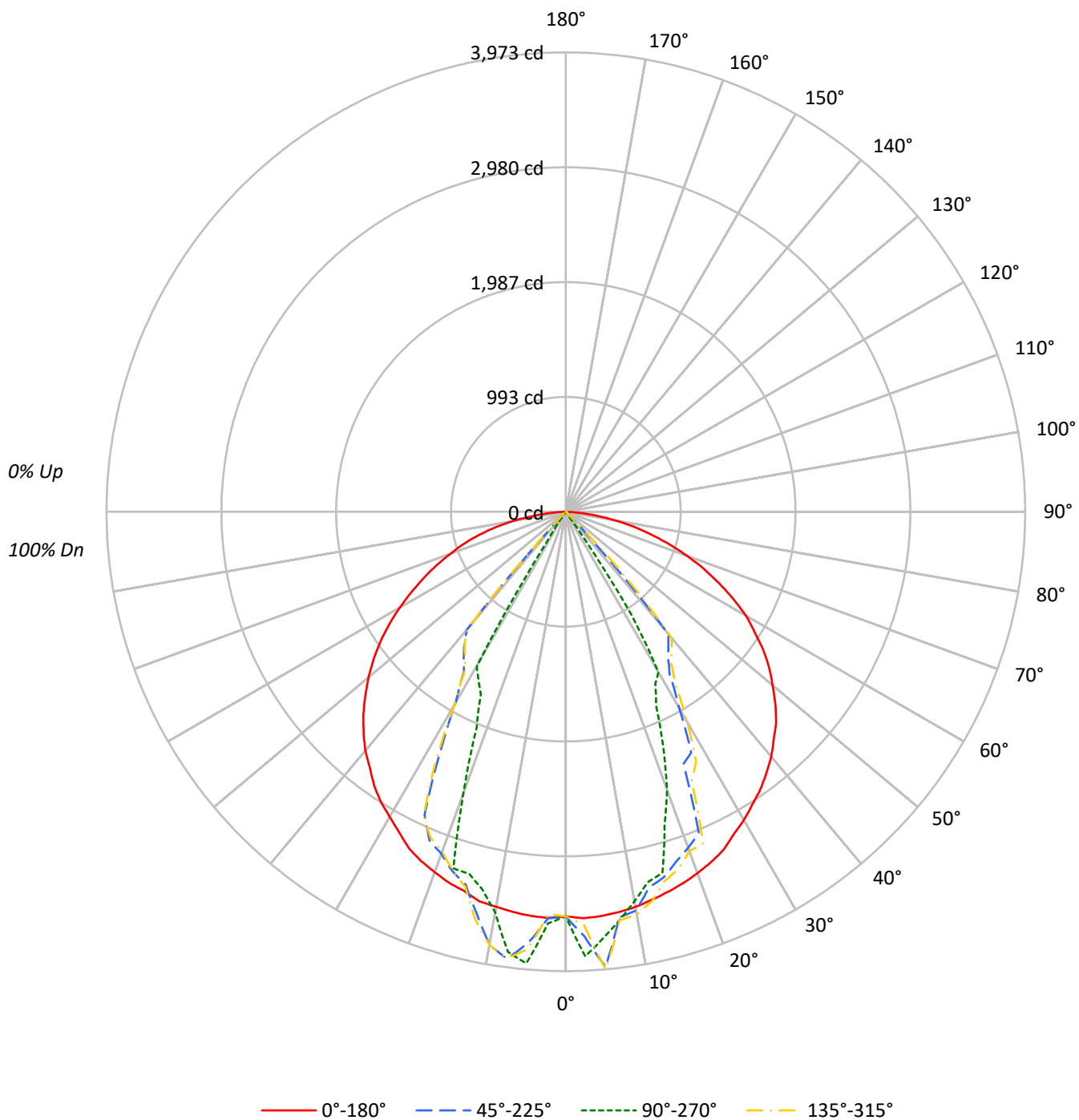
Lumens per Lamp: N/A
Luminaire Lumens: 4975.1 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 52
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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72		
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65		
5	85	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59		
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54		
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42		
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	28274	28274	28274	28274
5°	28389	29079	28381	30795
10°	28321	26314	28304	27073
15°	28244	24560	28174	24624
20°	28276	19345	28197	19584
25°	28358	14000	28220	13211
30°	28229	12281	27931	11806
35°	28313	271	27898	328
40°	28410	59	27730	59
45°	28509	35	27439	27
50°	28293	28	26995	28
55°	28126	19	26398	19
60°	27595	21	25438	21
65°	26157	34	24293	22
70°	24266	37	23099	37
75°	21463	42	21816	42
80°	17433	48	18429	48
85°	10261	56	10473	56

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 30784 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.0	7.1
10°-20°	957.5	19.2
20°-30°	1218.4	24.5
30°-40°	1029.2	20.7
40°-50°	672.9	13.5
50°-60°	424.0	8.5
60°-70°	225.7	4.5
70°-80°	82.3	1.7
80°-90°	14.2	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2526.9	50.8
0°-40°	3556.1	71.5
0°-60°	4652.9	93.5
0°-90°	4975.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4975.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3499	3499	3499	3499	3499	
5°	3509	3702	3508	3921	3509	334
15°	3404	3231	3396	3239	3404	962
25°	3227	1845	3211	1741	3227	1484
35°	2933	35	2890	42	2933	1835
45°	2573	4	2476	3	2573	1978
55°	2085	2	1957	2	2085	1858
65°	1460	3	1356	2	1460	1446
75°	768	3	780	3	768	815
85°	150	3	153	3	150	190
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8
2.5°	3518.7	3520.8	3521.9	3524.0	3527.1	3528.2	3530.3	3528.2	3528.2	3528.2	3528.2
5°	3509.3	3513.5	3516.6	3520.8	3528.2	3529.2	3537.6	3538.7	3542.9	3551.3	3557.6
7.5°	3493.5	3497.7	3504.0	3514.5	3525.0	3536.6	3551.3	3567.0	3589.1	3610.1	3636.3
10°	3470.4	3475.7	3483.0	3492.5	3543.9	3551.3	3583.8	3629.0	3641.6	3707.8	3757.1
12.5°	3436.8	3454.7	3473.6	3482.0	3531.3	3609.0	3718.3	3696.2	3672.1	3888.4	3885.2
15°	3404.3	3428.4	3419.0	3487.2	3532.4	3667.9	3621.6	3720.4	3901.0	3856.9	3859.0
17.5°	3369.6	3374.9	3427.4	3484.1	3564.9	3634.2	3691.0	3826.4	3862.1	3865.3	3826.4
20°	3325.5	3350.7	3427.4	3478.8	3615.3	3647.9	3770.8	3840.1	3825.4	3789.7	3723.5
22.5°	3280.4	3357.0	3434.7	3507.2	3602.7	3689.9	3750.8	3783.4	3706.7	3566.0	3490.4
25°	3226.8	3272.0	3373.8	3479.9	3599.6	3650.0	3685.7	3633.2	3533.4	3407.4	3280.4
27.5°	3143.9	3216.3	3346.5	3466.2	3574.4	3635.3	3577.5	3451.5	3290.9	3207.9	3150.2
30°	3079.8	3174.3	3281.4	3396.9	3509.3	3545.0	3398.0	3254.1	3143.9	3060.9	3048.3
32.5°	3002.1	3136.5	3238.4	3348.6	3443.1	3395.9	3253.1	3067.2	2975.9	2944.4	2957.0
35°	2932.8	3034.7	3168.0	3276.2	3344.4	3238.4	3012.6	2897.1	2853.0	2870.9	2847.8
37.5°	2849.9	2984.3	3107.1	3200.6	3177.5	3017.9	2826.8	2753.3	2758.5	2743.8	2699.7
40°	2763.8	2891.9	3020.0	3108.2	3027.3	2783.7	2656.6	2640.9	2644.0	2596.8	2533.8
42.5°	2662.9	2779.5	2907.6	2987.4	2813.1	2623.0	2536.9	2539.0	2511.7	2445.6	2412.0
45°	2572.6	2679.7	2813.1	2820.5	2606.2	2447.7	2422.5	2395.2	2334.3	2312.2	2287.0
47.5°	2457.1	2575.8	2686.0	2646.1	2403.6	2304.9	2286.0	2226.1	2195.7	2178.9	2157.9
50°	2334.3	2454.0	2554.8	2441.4	2212.5	2189.4	2127.4	2080.2	2059.2	2041.3	2022.4
52.5°	2217.7	2316.4	2419.3	2224.0	2065.5	2043.4	1973.1	1945.8	1924.8	1904.8	1900.6
55°	2085.4	2172.6	2242.9	2017.2	1924.8	1873.3	1822.9	1804.0	1784.0	1774.6	1790.3
57.5°	1935.3	2034.0	2023.5	1813.4	1772.5	1697.9	1679.0	1666.4	1651.7	1658.0	1526.8
60°	1799.8	1875.4	1824.0	1664.3	1595.0	1544.6	1527.8	1519.4	1527.8	1399.7	1230.7
62.5°	1632.8	1717.9	1613.9	1490.0	1416.5	1392.4	1377.7	1389.2	1266.4	1125.7	1084.7
65°	1459.6	1552.0	1398.7	1303.1	1256.9	1235.9	1234.9	1137.2	1016.5	961.9	961.9
67.5°	1292.6	1388.2	1190.8	1111.0	1093.1	1095.2	1034.3	886.2	852.6	815.9	709.8
70°	1115.2	1199.2	983.9	935.6	925.1	917.8	769.7	729.8	689.9	592.2	583.8
72.5°	938.8	979.7	790.7	779.1	777.0	645.8	616.4	548.1	501.9	490.4	485.1
75°	767.6	755.0	624.8	635.3	535.5	489.3	442.1	402.2	395.9	391.7	97.7
77.5°	605.9	542.9	492.5	428.4	383.3	325.5	316.1	309.8	203.7	73.5	59.9
80°	441.0	351.8	327.6	278.3	237.3	227.9	233.1	71.4	56.7	47.3	41.0
82.5°	280.4	224.7	183.8	160.7	156.5	68.3	50.4	41.0	35.7	30.5	25.2
85°	150.2	99.8	92.4	77.7	46.2	31.5	26.3	20.0	16.8	13.7	12.6
87.5°	47.3	39.9	32.6	26.3	15.8	10.5	8.4	7.4	6.3	5.3	5.3
90°	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):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8
2.5°	3526.1	3528.2	3527.1	3530.3	3530.3	3534.5	3537.6	3540.8	3547.1	3550.2	3574.4
5°	3571.2	3576.5	3592.2	3606.9	3624.8	3630.0	3660.5	3667.9	3703.6	3707.8	3825.4
7.5°	3672.1	3692.0	3729.8	3767.6	3805.4	3829.6	3871.6	3897.8	3926.2	3951.4	4044.8
10°	3793.9	3827.5	3864.2	3902.0	3924.1	3970.3	3995.5	3999.7	3992.3	3951.4	3800.2
12.5°	3913.6	3947.2	3931.4	3938.8	3965.0	3883.1	3894.7	3835.9	3876.8	3674.2	3524.0
15°	3896.8	3894.7	3855.8	3729.8	3750.8	3594.3	3531.3	3483.0	3521.9	3500.9	3477.8
17.5°	3846.4	3750.8	3683.6	3532.4	3468.3	3424.2	3425.3	3426.3	3407.4	3427.4	3368.6
20°	3633.2	3526.1	3426.3	3372.8	3353.9	3322.4	3338.1	3322.4	3323.4	3329.7	3239.4
22.5°	3349.7	3317.1	3259.4	3276.2	3269.9	3298.2	3277.2	3244.7	3255.2	3207.9	3139.7
25°	3235.2	3197.4	3195.3	3201.6	3192.2	3179.6	3160.7	3111.3	3108.2	3093.5	3062.0
27.5°	3119.7	3121.8	3128.1	3109.2	3075.6	3050.4	3022.1	2997.9	3007.4	2990.6	2947.5
30°	3039.9	3038.9	3001.1	2984.3	2922.3	2923.4	2916.0	2901.3	2891.9	2892.9	2865.6
32.5°	2926.5	2894.0	2850.9	2829.9	2824.7	2805.8	2791.1	2794.2	2801.6	2775.3	2803.7
35°	2810.0	2742.8	2736.5	2718.6	2701.8	2689.2	2694.4	2673.4	2672.4	2669.2	2438.2
37.5°	2653.5	2620.9	2617.8	2598.9	2587.3	2584.2	2564.2	2567.4	2576.8	2593.6	2079.1
40°	2524.3	2494.9	2487.6	2486.5	2461.3	2459.2	2464.5	2484.4	2498.1	2393.1	1981.5
42.5°	2385.7	2387.8	2364.7	2350.0	2353.2	2362.6	2387.8	2318.5	2008.8	1914.3	1811.3
45°	2267.1	2256.6	2244.0	2239.8	2267.1	2248.2	1971.0	1818.7	1781.9	1777.7	1489.0
47.5°	2143.2	2140.0	2134.8	2137.9	1982.5	1767.2	1704.2	1684.3	1690.6	1686.4	1279.0
50°	2018.2	2022.4	2022.4	1766.2	1621.3	1585.6	1590.8	1608.7	1497.4	1397.6	1191.8
52.5°	1910.1	1877.5	1608.7	1516.3	1483.7	1499.5	1461.7	1322.0	1221.2	1162.4	1102.6
55°	1709.5	1470.1	1410.2	1395.5	1407.1	1267.4	1181.3	1091.0	1064.8	1058.5	1023.8
57.5°	1345.1	1296.8	1302.1	1243.3	1109.9	1031.2	996.5	983.9	972.4	964.0	84.0
60°	1189.7	1203.4	1101.5	975.5	922.0	911.5	903.0	891.5	889.4	874.7	53.6
62.5°	1088.9	957.7	869.4	837.9	825.3	822.2	806.4	801.2	680.4	93.5	39.9
65°	821.1	767.6	750.8	743.4	729.8	729.8	605.9	95.6	77.7	67.2	35.7
67.5°	669.9	665.7	657.3	647.9	441.0	92.4	80.9	70.4	60.9	53.6	31.5
70°	567.0	564.9	514.5	94.5	78.8	69.3	60.9	54.6	50.4	45.2	28.4
72.5°	465.2	94.5	79.8	69.3	59.9	54.6	49.4	44.1	39.9	36.8	23.1
75°	72.5	64.1	56.7	51.5	47.3	42.0	37.8	34.7	33.6	29.4	15.8
77.5°	52.5	45.2	41.0	36.8	32.6	29.4	25.2	22.1	20.0	16.8	11.6
80°	36.8	32.6	29.4	24.2	21.0	17.9	15.8	13.7	12.6	10.5	5.3
82.5°	21.0	17.9	15.8	12.6	11.6	9.5	8.4	7.4	7.4	5.3	5.3
85°	9.5	9.5	7.4	6.3	5.3	5.3	5.3	4.2	4.2	3.2	3.2
87.5°	4.2	4.2	4.2	4.2	4.2	3.2	3.2	3.2	3.2	3.2	2.1
90°	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):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8
2.5°	3608.0	3621.6	3647.9	3675.2	3644.8	3754.0	3745.6	3782.3	3802.3	3811.7	3833.8
5°	3929.3	3990.2	4010.2	3950.3	3915.7	3880.0	3799.1	3738.2	3745.6	3725.6	3653.2
7.5°	3923.0	3792.8	3617.4	3537.6	3531.3	3521.9	3547.1	3561.8	3563.9	3562.8	3560.7
10°	3591.2	3524.0	3512.4	3501.9	3506.1	3467.3	3449.4	3399.0	3426.3	3411.6	3416.9
12.5°	3490.4	3474.6	3412.7	3326.6	3378.0	3339.2	3317.1	3331.8	3315.0	3299.3	3294.0
15°	3430.5	3328.7	3294.0	3273.0	3258.3	3249.9	3257.3	3240.5	3235.2	3232.1	3239.4
17.5°	3306.6	3265.7	3227.9	3172.2	3173.3	3170.1	3191.1	3222.6	3224.7	3063.0	2917.1
20°	3209.0	3175.4	3127.1	3092.4	3139.7	3055.7	2731.2	2576.8	2552.7	2552.7	2556.9
22.5°	3131.3	3056.7	3059.9	3005.3	2563.2	2472.9	2475.0	2484.4	2441.4	2294.4	2278.6
25°	3025.2	3013.7	2783.7	2405.7	2408.8	2338.5	2230.3	2078.1	1913.2	1913.2	1885.9
27.5°	2945.4	2700.7	2364.7	2349.0	2112.7	1963.6	1871.2	1731.5	1712.6	1694.8	1696.9
30°	2877.2	2284.9	2293.3	1963.6	1789.3	1665.4	1658.0	1634.9	1623.4	1620.2	1608.7
32.5°	2274.4	2225.1	1919.5	1671.7	1603.4	1583.5	1574.0	1547.8	1546.7	1526.8	1388.2
35°	2132.7	1953.1	1606.6	1539.4	1519.4	1500.5	1484.8	996.5	117.6	47.3	41.0
37.5°	1971.0	1631.8	1485.8	1455.4	1436.5	1061.6	106.1	36.8	26.3	18.9	16.8
40°	1670.6	1457.5	1411.3	1377.7	568.1	36.8	23.1	17.9	10.5	9.5	8.4
42.5°	1409.2	1373.5	1324.1	403.2	42.0	17.9	11.6	8.4	7.4	7.4	6.3
45°	1318.9	1287.4	533.4	39.9	26.3	8.4	7.4	7.4	6.3	4.2	4.2
47.5°	1234.9	1086.8	48.3	25.2	16.8	7.4	6.3	4.2	4.2	4.2	3.2
50°	1145.6	59.9	33.6	18.9	10.5	4.2	4.2	4.2	4.2	3.2	3.2
52.5°	214.2	42.0	27.3	16.8	5.3	4.2	4.2	4.2	3.2	3.2	3.2
55°	50.4	33.6	25.2	14.7	4.2	4.2	4.2	3.2	3.2	3.2	2.1
57.5°	37.8	25.2	20.0	13.7	4.2	3.2	3.2	3.2	3.2	3.2	2.1
60°	31.5	17.9	15.8	12.6	3.2	3.2	3.2	3.2	3.2	3.2	2.1
62.5°	22.1	14.7	11.6	9.5	3.2	3.2	3.2	3.2	3.2	3.2	3.2
65°	17.9	11.6	9.5	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
67.5°	15.8	9.5	6.3	2.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2
70°	12.6	3.2	3.2	2.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2
72.5°	10.5	3.2	2.1	2.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2
75°	10.5	5.3	2.1	2.1	3.2	3.2	4.2	4.2	3.2	3.2	3.2
77.5°	7.4	5.3	2.1	2.1	3.2	3.2	4.2	4.2	3.2	3.2	3.2
80°	4.2	5.3	2.1	3.2	3.2	6.3	7.4	4.2	3.2	3.2	3.2
82.5°	4.2	5.3	6.3	6.3	3.2	5.3	6.3	5.3	4.2	3.2	3.2
85°	4.2	3.2	4.2	5.3	3.2	5.3	5.3	4.2	4.2	3.2	3.2
87.5°	2.1	3.2	3.2	4.2	4.2	4.2	5.3	4.2	4.2	4.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213144

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8
2.5°	3844.3	3848.5	3782.3	3759.2	3779.2	3775.0	3757.1	3691.0	3683.6	3639.5	3575.4
5°	3674.2	3702.5	3667.9	3727.7	3699.4	3727.7	3813.8	3853.7	3918.8	3958.7	3973.4
7.5°	3555.5	3561.8	3561.8	3567.0	3572.3	3573.3	3567.0	3562.8	3545.0	3522.9	3562.8
10°	3411.6	3419.0	3431.6	3429.5	3428.4	3450.5	3455.7	3500.9	3498.8	3507.2	3537.6
12.5°	3337.1	3280.4	3331.8	3318.2	3337.1	3307.7	3362.3	3352.8	3356.0	3381.2	3446.3
15°	3213.2	3231.0	3243.6	3243.6	3251.0	3244.7	3238.4	3281.4	3307.7	3308.7	3304.5
17.5°	2974.8	2839.4	2978.0	2942.3	3226.8	3234.2	3210.0	3190.1	3190.1	3205.8	3239.4
20°	2553.7	2556.9	2557.9	2571.6	2588.4	2587.3	2588.4	3002.1	3198.5	3153.3	3122.9
22.5°	2238.7	2199.9	2272.3	2267.1	2357.4	2457.1	2552.7	2543.2	2549.5	2841.5	3104.0
25°	1794.5	1845.0	1804.0	1821.9	1923.7	2042.4	2115.9	2308.0	2517.0	2502.3	2570.5
27.5°	1689.5	1675.9	1694.8	1694.8	1708.4	1724.2	1765.1	1873.3	2059.2	2254.5	2439.3
30°	1589.8	1601.3	1603.4	1622.3	1632.8	1643.3	1649.6	1690.6	1732.6	1868.1	2095.9
32.5°	1193.9	1046.9	1377.7	1466.9	1542.5	1560.4	1573.0	1589.8	1620.2	1640.2	1754.6
35°	34.7	34.7	36.8	42.0	53.6	361.2	1375.6	1516.3	1536.2	1561.4	1582.4
37.5°	16.8	12.6	14.7	15.8	18.9	26.3	37.8	117.6	1309.4	1480.6	1503.7
40°	7.4	7.4	7.4	7.4	8.4	10.5	15.8	26.3	39.9	1053.2	1420.7
42.5°	6.3	6.3	6.3	6.3	6.3	6.3	7.4	9.5	18.9	45.2	745.5
45°	4.2	4.2	3.2	4.2	4.2	5.3	6.3	6.3	8.4	28.4	51.5
47.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	5.3	6.3	18.9	27.3
50°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	14.7	18.9
52.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	6.3	16.8
55°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2	4.2	14.7
57.5°	2.1	2.1	2.1	2.1	2.1	3.2	2.1	2.1	3.2	3.2	13.7
60°	2.1	2.1	2.1	2.1	2.1	3.2	3.2	3.2	3.2	3.2	12.6
62.5°	3.2	3.2	2.1	3.2	2.1	2.1	3.2	3.2	3.2	3.2	8.4
65°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.1	3.2
67.5°	3.2	3.2	3.2	3.2	2.1	3.2	2.1	3.2	3.2	2.1	2.1
70°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.1	2.1	2.1	2.1
72.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.1	2.1	2.1	2.1
75°	3.2	3.2	3.2	3.2	3.2	3.2	4.2	4.2	2.1	2.1	2.1
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	5.3	6.3	5.3	5.3	2.1
80°	3.2	3.2	3.2	3.2	3.2	3.2	5.3	5.3	5.3	5.3	7.4
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	4.2	4.2	4.2	4.2	5.3
85°	3.2	3.2	3.2	3.2	3.2	3.2	4.2	4.2	4.2	3.2	4.2
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.2	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213144

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8
2.5°	3580.7	3545.0	3533.4	3509.3	3507.2	3509.3	3504.0	3496.7	3500.9	3493.5	3487.2
5°	3981.8	3886.3	3824.3	3741.4	3626.9	3601.7	3595.4	3559.7	3547.1	3542.9	3526.1
7.5°	3657.4	3831.7	3936.7	3972.4	3838.0	3806.5	3769.7	3740.3	3712.0	3658.4	3625.8
10°	3513.5	3521.9	3622.7	3740.3	3931.4	3957.7	3977.6	3913.6	3895.7	3759.2	3729.8
12.5°	3479.9	3480.9	3492.5	3563.9	3714.1	3730.9	3801.2	3839.0	3885.2	3911.5	3890.5
15°	3326.6	3411.6	3474.6	3480.9	3494.6	3524.0	3545.0	3676.3	3731.9	3881.0	3872.6
17.5°	3255.2	3282.5	3373.8	3448.4	3435.8	3425.3	3442.1	3459.9	3513.5	3662.6	3660.5
20°	3136.5	3223.7	3273.0	3350.7	3421.1	3424.2	3405.3	3394.8	3373.8	3398.0	3420.0
22.5°	3086.1	3099.8	3192.2	3246.8	3326.6	3354.9	3359.1	3360.2	3348.6	3336.0	3329.7
25°	3080.9	3037.8	3085.1	3153.3	3212.1	3242.6	3277.2	3288.8	3284.6	3284.6	3278.3
27.5°	2521.2	3024.2	2999.0	3044.1	3115.5	3136.5	3154.4	3190.1	3212.1	3227.9	3235.2
30°	2401.5	2491.8	2931.8	2938.1	3010.5	3008.4	3028.4	3057.8	3086.1	3122.9	3132.3
32.5°	2124.3	2345.8	2683.9	2832.0	2907.6	2915.0	2925.5	2933.9	2960.1	3001.1	3036.8
35°	1702.1	2136.9	2299.6	2781.6	2795.3	2810.0	2816.3	2836.2	2844.6	2861.4	2892.9
37.5°	1540.4	1766.2	2206.2	2405.7	2666.1	2678.7	2712.3	2720.7	2734.4	2748.0	2772.2
40°	1447.0	1508.9	1836.6	2148.4	2562.1	2570.5	2582.1	2603.1	2604.1	2619.9	2641.9
42.5°	1372.4	1412.3	1507.9	2051.8	2488.6	2487.6	2460.3	2473.9	2480.2	2497.0	2527.5
45°	1096.3	1325.2	1386.1	1675.9	1981.5	2124.3	2398.3	2353.2	2352.1	2358.4	2391.0
47.5°	55.7	1246.4	1289.5	1382.9	1871.2	1876.5	1912.2	2212.5	2258.7	2244.0	2247.1
50°	37.8	86.1	1201.3	1244.3	1612.9	1743.1	1769.3	1783.0	1956.3	2149.5	2118.0
52.5°	29.4	49.4	736.1	1155.1	1310.5	1406.0	1575.1	1671.7	1682.2	1759.9	2023.5
55°	26.3	37.8	79.8	1065.8	1114.1	1135.1	1233.8	1402.9	1539.4	1580.3	1583.5
57.5°	23.1	34.7	54.6	482.0	1013.3	1017.5	1034.3	1093.1	1216.0	1328.3	1455.4
60°	21.0	30.5	43.1	83.0	920.9	931.4	934.6	950.3	965.0	1041.7	1187.6
62.5°	12.6	24.2	37.8	59.9	728.7	836.9	835.8	846.3	860.0	868.4	897.8
65°	10.5	18.9	32.6	50.4	89.3	111.3	676.2	751.8	760.2	771.8	777.0
67.5°	9.5	16.8	24.2	39.9	67.2	76.7	88.2	109.2	596.4	672.0	682.5
70°	8.4	11.6	20.0	33.6	54.6	58.8	66.2	75.6	89.3	110.3	539.7
72.5°	5.3	8.4	13.7	24.2	42.0	47.3	51.5	57.8	64.1	76.7	88.2
75°	2.1	6.3	11.6	17.9	32.6	35.7	38.9	43.1	48.3	56.7	63.0
77.5°	2.1	5.3	9.5	12.6	21.0	24.2	28.4	31.5	35.7	39.9	46.2
80°	7.4	4.2	6.3	9.5	14.7	15.8	17.9	20.0	23.1	26.3	30.5
82.5°	5.3	6.3	7.4	6.3	7.4	9.5	10.5	12.6	13.7	15.8	16.8
85°	4.2	4.2	5.3	5.3	5.3	5.3	5.3	5.3	6.3	7.4	9.5
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213144

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8
2.5°	3487.2	3485.1	3478.8	3478.8	3477.8	3482.0	3485.1	3488.3	3487.2	3493.5	3487.2
5°	3513.5	3508.2	3498.8	3490.4	3487.2	3489.3	3486.2	3489.3	3485.1	3490.4	3480.9
7.5°	3585.9	3568.1	3531.3	3516.6	3497.7	3496.7	3487.2	3485.1	3478.8	3478.8	3467.3
10°	3714.1	3627.9	3617.4	3573.3	3557.6	3480.9	3497.7	3469.4	3466.2	3452.6	3447.3
12.5°	3819.1	3751.9	3731.9	3693.1	3649.0	3493.5	3528.2	3467.3	3464.1	3436.8	3408.5
15°	3821.2	3860.0	3805.4	3698.3	3688.9	3581.7	3511.4	3490.4	3463.1	3381.2	3394.8
17.5°	3698.3	3787.6	3813.8	3790.7	3723.5	3651.1	3552.3	3510.3	3428.4	3391.7	3366.5
20°	3498.8	3589.1	3701.5	3708.8	3750.8	3699.4	3570.2	3501.9	3403.2	3339.2	3318.2
22.5°	3340.2	3406.4	3535.5	3595.4	3646.9	3664.7	3582.8	3482.0	3359.1	3297.2	3284.6
25°	3256.2	3270.9	3309.8	3380.1	3493.5	3575.4	3587.0	3479.9	3415.8	3280.4	3209.0
27.5°	3225.8	3213.2	3197.4	3233.1	3318.2	3417.9	3484.1	3501.9	3342.3	3213.2	3141.8
30°	3148.1	3155.4	3131.3	3118.7	3174.3	3277.2	3394.8	3424.2	3301.4	3168.0	3086.1
32.5°	3052.5	3065.1	3069.3	3047.3	3035.7	3107.1	3234.2	3304.5	3298.2	3104.0	3012.6
35°	2932.8	2968.5	2978.0	2979.0	2960.1	2948.6	3022.1	3168.0	3223.7	3074.6	2942.3
37.5°	2806.8	2817.3	2868.8	2882.4	2882.4	2847.8	2902.4	3018.9	3096.6	3008.4	2856.2
40°	2649.3	2682.9	2731.2	2755.4	2779.5	2782.7	2752.2	2834.1	2962.2	2940.2	2775.3
42.5°	2534.8	2556.9	2586.3	2618.8	2668.2	2680.8	2649.3	2664.0	2797.4	2855.1	2670.3
45°	2401.5	2430.9	2439.3	2475.0	2526.4	2563.2	2562.1	2531.7	2638.8	2710.2	2593.6
47.5°	2265.0	2293.3	2308.0	2325.9	2363.7	2410.9	2437.2	2423.5	2444.5	2584.2	2491.8
50°	2124.3	2140.0	2169.4	2189.4	2214.6	2241.9	2304.9	2317.5	2288.1	2399.4	2379.4
52.5°	1990.9	1996.2	2016.1	2036.1	2069.7	2089.6	2140.0	2177.8	2175.7	2208.3	2254.5
55°	1887.0	1863.9	1868.1	1883.8	1905.9	1936.3	1964.7	2023.5	2043.4	2049.7	2123.2
57.5°	1474.3	1711.6	1732.6	1731.5	1757.8	1771.4	1797.7	1836.6	1908.0	1892.2	1974.1
60°	1339.9	1366.1	1564.6	1587.7	1597.1	1609.7	1641.2	1676.9	1729.4	1763.0	1798.7
62.5°	1021.7	1181.3	1241.2	1416.5	1443.8	1451.2	1472.2	1489.0	1543.6	1620.2	1605.5
65°	790.7	858.9	1041.7	1113.1	1262.2	1281.1	1310.5	1328.3	1344.1	1432.3	1436.5
67.5°	683.6	694.1	743.4	881.0	975.5	1121.5	1139.3	1155.1	1179.2	1242.2	1281.1
70°	583.8	596.4	610.1	621.6	744.5	841.1	976.6	981.8	997.6	1039.6	1127.8
72.5°	110.3	498.8	507.2	514.5	528.2	592.2	721.4	826.4	832.7	852.6	933.5
75°	74.6	87.2	119.7	411.6	425.3	429.5	451.5	582.8	679.4	683.6	719.3
77.5°	53.6	59.9	72.5	86.1	219.5	329.7	335.0	359.1	458.9	531.3	537.6
80°	36.8	41.0	48.3	54.6	67.2	88.2	243.6	251.0	263.6	363.3	382.2
82.5°	21.0	24.2	28.4	34.7	39.9	50.4	65.1	84.0	171.2	182.7	242.6
85°	10.5	11.6	13.7	16.8	20.0	24.2	32.6	39.9	54.6	98.7	101.9
87.5°	5.3	5.3	5.3	5.3	8.4	9.5	11.6	14.7	18.9	28.4	36.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213144

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8
2.5°	3488.3	3503.0	3515.6	3518.7	3518.7	3520.8	3524.0	3526.1	3528.2	3530.3	3528.2
5°	3482.0	3497.7	3508.2	3511.4	3511.4	3517.7	3522.9	3529.2	3532.4	3532.4	3530.3
7.5°	3466.2	3477.8	3491.4	3499.8	3500.9	3511.4	3520.8	3519.8	3524.0	3526.1	3531.3
10°	3445.2	3445.2	3468.3	3474.6	3479.9	3491.4	3494.6	3500.9	3515.6	3517.7	3531.3
12.5°	3434.7	3424.2	3451.5	3454.7	3472.5	3457.8	3476.7	3483.0	3468.3	3488.3	3462.0
15°	3387.5	3400.1	3395.9	3405.3	3436.8	3420.0	3471.5	3454.7	3492.5	3447.3	3527.1
17.5°	3348.6	3346.5	3363.3	3371.7	3378.0	3413.7	3427.4	3446.3	3461.0	3448.4	3479.9
20°	3320.3	3303.5	3316.1	3325.5	3347.6	3374.9	3383.3	3354.9	3404.3	3488.3	3508.2
22.5°	3266.7	3255.2	3269.9	3269.9	3303.5	3299.3	3330.8	3312.9	3359.1	3456.8	3558.6
25°	3194.3	3195.3	3211.1	3230.0	3236.3	3283.5	3300.3	3323.4	3381.2	3497.7	3559.7
27.5°	3120.8	3114.5	3123.9	3162.8	3195.3	3230.0	3235.2	3314.0	3392.7	3472.5	3527.1
30°	3047.3	3041.0	3047.3	3075.6	3114.5	3137.6	3195.3	3300.3	3373.8	3428.4	3479.9
32.5°	2968.5	2962.2	2976.9	2997.9	3066.2	3069.3	3183.8	3282.5	3340.2	3380.1	3370.7
35°	2884.5	2876.1	2889.8	2922.3	2985.3	3008.4	3128.1	3201.6	3266.7	3285.6	3241.5
37.5°	2783.7	2769.0	2785.8	2831.0	2897.1	2964.3	3064.1	3149.1	3183.8	3133.4	3080.9
40°	2678.7	2668.2	2697.6	2720.7	2798.4	2891.9	3006.3	3066.2	3044.1	2986.4	2928.6
42.5°	2585.2	2563.2	2589.4	2633.5	2721.7	2827.8	2920.2	2953.8	2901.3	2816.3	2749.1
45°	2470.8	2444.5	2476.0	2534.8	2629.3	2750.1	2822.6	2811.0	2721.7	2648.2	2555.8
47.5°	2351.1	2319.6	2351.1	2421.4	2527.5	2655.6	2708.1	2655.6	2543.2	2450.8	2376.3
50°	2233.5	2196.7	2227.2	2333.2	2437.2	2535.9	2534.8	2433.0	2365.8	2265.0	2199.9
52.5°	2116.9	2064.4	2094.9	2210.4	2314.3	2426.7	2343.7	2249.2	2168.4	2080.2	2059.2
55°	1973.1	1916.4	1957.3	2125.3	2205.1	2271.3	2139.0	2056.0	1976.2	1932.1	1905.9
57.5°	1836.6	1774.6	1810.3	2008.8	2067.6	2084.4	1962.6	1845.0	1797.7	1783.0	1745.2
60°	1695.8	1625.5	1659.1	1888.0	1929.0	1860.7	1741.0	1649.6	1640.2	1610.8	1581.4
62.5°	1561.4	1483.7	1504.7	1737.8	1756.7	1632.8	1522.6	1498.4	1475.3	1445.9	1430.2
65°	1407.1	1326.2	1355.6	1578.2	1560.4	1400.8	1338.8	1333.6	1303.1	1279.0	1302.1
67.5°	1265.3	1169.8	1210.7	1403.9	1323.1	1192.9	1167.7	1155.1	1130.9	1144.6	902.0
70°	1109.9	1006.0	1061.6	1216.0	1096.3	1010.2	1000.7	981.8	982.9	781.2	658.4
72.5°	936.7	846.3	927.2	1010.2	867.3	842.1	828.5	826.4	666.8	541.8	511.4
75°	784.4	693.0	780.2	811.7	690.9	674.1	673.1	556.5	437.9	417.9	408.5
77.5°	612.2	541.8	624.8	577.5	530.3	511.4	458.9	344.4	329.7	316.1	118.7
80°	412.7	417.9	466.2	398.0	378.0	322.4	254.1	243.6	210.0	84.0	66.2
82.5°	251.0	315.0	297.2	248.9	243.6	175.4	160.7	81.9	60.9	48.3	42.0
85°	130.2	159.6	153.3	135.5	100.8	90.3	50.4	38.9	31.5	24.2	20.0
87.5°	44.1	58.8	56.7	45.2	34.7	27.3	17.9	14.7	10.5	8.4	7.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213144

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8
2.5°	3526.1	3526.1	3524.0	3526.1	3527.1	3525.0	3525.0	3527.1	3528.2	3529.2	3534.5
5°	3531.3	3533.4	3536.6	3542.9	3543.9	3556.5	3561.8	3564.9	3568.1	3569.1	3561.8
7.5°	3542.9	3550.2	3556.5	3555.5	3548.1	3528.2	3521.9	3516.6	3526.1	3550.2	3578.6
10°	3553.4	3519.8	3456.8	3542.9	3516.6	3540.8	3612.2	3627.9	3676.3	3744.5	3764.5
12.5°	3480.9	3573.3	3593.3	3496.7	3675.2	3609.0	3687.8	3757.1	3777.1	3846.4	3804.4
15°	3558.6	3603.8	3634.2	3730.9	3720.4	3777.1	3799.1	3785.5	3788.6	3806.5	3853.7
17.5°	3557.6	3647.9	3667.9	3733.0	3777.1	3778.1	3771.8	3765.5	3782.3	3796.0	3767.6
20°	3618.5	3647.9	3686.8	3713.0	3721.4	3731.9	3751.9	3736.1	3704.6	3674.2	3661.6
22.5°	3588.0	3654.2	3687.8	3692.0	3686.8	3654.2	3624.8	3580.7	3566.0	3550.2	3555.5
25°	3594.3	3624.8	3620.6	3603.8	3581.7	3520.8	3506.1	3487.2	3458.9	3390.6	3328.7
27.5°	3549.2	3533.4	3514.5	3473.6	3433.7	3401.1	3364.4	3303.5	3253.1	3179.6	3152.3
30°	3473.6	3410.6	3364.4	3340.2	3301.4	3246.8	3191.1	3116.6	3052.5	3037.8	3024.2
32.5°	3328.7	3266.7	3228.9	3170.1	3104.0	3038.9	2974.8	2945.4	2931.8	2933.9	2921.3
35°	3180.6	3126.0	3069.3	2981.1	2931.8	2866.7	2843.6	2837.3	2824.7	2811.0	2796.3
37.5°	3023.1	2959.1	2874.0	2821.5	2772.2	2745.9	2734.4	2724.9	2702.8	2678.7	2661.9
40°	2870.9	2755.4	2708.1	2656.6	2641.9	2630.4	2613.6	2590.5	2560.0	2555.8	2548.5
42.5°	2667.1	2584.2	2543.2	2532.7	2514.9	2494.9	2480.2	2455.0	2442.4	2450.8	2457.1
45°	2473.9	2431.9	2418.3	2405.7	2372.1	2343.7	2334.3	2325.9	2336.4	2382.6	2272.3
47.5°	2317.5	2300.7	2283.9	2262.9	2231.4	2210.4	2219.8	2228.2	2237.7	1898.5	1732.6
50°	2182.0	2158.9	2132.7	2109.6	2090.7	2088.6	2137.9	1989.9	1666.4	1658.0	1490.0
52.5°	2034.0	1999.3	1983.6	1969.9	1978.3	2009.8	1663.3	1543.6	1480.6	1286.3	1200.2
55°	1874.4	1843.9	1843.9	1856.5	1811.3	1468.0	1450.1	1253.8	1135.1	1101.5	1087.9
57.5°	1714.7	1711.6	1729.4	1581.4	1332.5	1277.9	1074.2	1031.2	1012.3	1008.1	986.0
60°	1568.8	1598.2	1337.8	1230.7	1070.0	965.0	935.6	930.4	910.4	903.0	883.1
62.5°	1452.2	1204.4	1121.5	915.7	862.1	848.4	832.7	825.3	807.5	713.0	209.0
65°	1049.0	991.3	804.3	769.7	765.5	745.5	739.2	664.7	156.5	105.0	89.3
67.5°	791.7	702.5	678.3	672.0	652.1	612.2	181.7	104.0	89.3	77.7	68.3
70°	608.0	592.2	574.4	559.7	164.9	102.9	89.3	75.6	65.1	57.8	52.5
72.5°	497.7	487.2	283.5	108.2	88.2	74.6	66.2	57.8	50.4	46.2	42.0
75°	389.6	108.2	89.3	74.6	64.1	54.6	48.3	43.1	38.9	35.7	32.6
77.5°	88.2	71.4	60.9	51.5	46.2	41.0	36.8	31.5	28.4	25.2	21.0
80°	54.6	47.3	39.9	36.8	31.5	26.3	23.1	21.0	16.8	15.8	13.7
82.5°	35.7	28.4	25.2	21.0	16.8	15.8	13.7	10.5	9.5	8.4	7.4
85°	15.8	13.7	11.6	9.5	7.4	6.3	5.3	4.2	4.2	4.2	4.2
87.5°	5.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213144

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8
2.5°	3536.6	3555.5	3573.3	3568.1	3549.2	3519.8	3511.4	3499.8	3508.2	3526.1	3533.4
5°	3561.8	3551.3	3589.1	3644.8	3735.1	3743.5	3806.5	3821.2	3871.6	3903.1	3902.0
7.5°	3597.5	3746.6	3808.6	3875.8	3906.2	3898.9	3908.3	3901.0	3889.4	3884.2	3877.9
10°	3779.2	3892.6	3915.7	3915.7	3868.4	3804.4	3777.1	3729.8	3635.3	3637.4	3621.6
12.5°	3885.2	3925.1	3870.5	3824.3	3634.2	3560.7	3480.9	3443.1	3421.1	3387.5	3400.1
15°	3829.6	3772.9	3740.3	3591.2	3474.6	3342.3	3344.4	3321.3	3297.2	3299.3	3283.5
17.5°	3747.7	3702.5	3471.5	3368.6	3311.9	3260.4	3251.0	3220.5	3204.8	3199.5	3198.5
20°	3635.3	3472.5	3300.3	3275.1	3206.9	3148.1	3138.6	3148.1	3196.4	3110.3	2818.4
22.5°	3504.0	3269.9	3219.5	3148.1	3101.9	3078.8	3136.5	2874.0	2477.1	2525.4	2473.9
25°	3281.4	3179.6	3093.5	3038.9	3033.6	2891.9	2409.9	2359.5	2104.3	1967.8	1814.5
27.5°	3118.7	3074.6	2984.3	2974.8	2906.6	2364.7	2113.8	1836.6	1734.7	1718.9	1685.3
30°	3020.0	2957.0	2902.4	2664.0	2319.6	1903.8	1695.8	1657.0	1639.1	1620.2	1590.8
32.5°	2901.3	2841.5	2867.7	2239.8	1849.2	1639.1	1597.1	1568.8	1536.2	1523.6	1417.6
35°	2780.6	2753.3	2240.8	1882.8	1589.8	1539.4	1507.9	1478.5	1176.1	284.6	96.6
37.5°	2651.4	2645.1	2014.0	1562.5	1489.0	1441.7	1352.5	279.3	66.2	45.2	33.6
40°	2550.6	2015.1	1591.9	1464.8	1405.0	1330.4	186.9	46.2	29.4	17.9	11.6
42.5°	2483.4	1812.4	1424.9	1374.5	1244.3	137.6	47.3	20.0	11.6	9.5	7.4
45°	1914.3	1431.2	1331.5	1279.0	157.5	47.3	27.3	9.5	7.4	6.3	4.2
47.5°	1766.2	1300.0	1241.2	279.3	52.5	25.2	18.9	6.3	4.2	4.2	4.2
50°	1337.8	1201.3	988.1	68.3	33.6	17.9	13.7	4.2	4.2	4.2	3.2
52.5°	1172.9	1108.9	106.1	45.2	26.3	13.7	8.4	3.2	3.2	3.2	3.2
55°	1072.1	703.5	63.0	34.7	22.1	12.6	5.3	3.2	3.2	3.2	2.1
57.5°	980.8	94.5	46.2	29.4	20.0	11.6	3.2	3.2	3.2	3.2	2.1
60°	831.6	68.3	37.8	26.3	18.9	10.5	3.2	3.2	3.2	3.2	3.2
62.5°	108.2	53.6	32.6	23.1	13.7	8.4	2.1	3.2	3.2	3.2	3.2
65°	78.8	42.0	29.4	15.8	8.4	3.2	2.1	3.2	3.2	3.2	3.2
67.5°	60.9	34.7	22.1	13.7	7.4	2.1	2.1	3.2	3.2	3.2	3.2
70°	48.3	29.4	17.9	11.6	6.3	2.1	2.1	3.2	3.2	3.2	3.2
72.5°	37.8	21.0	12.6	6.3	4.2	2.1	2.1	3.2	3.2	3.2	3.2
75°	28.4	16.8	9.5	5.3	2.1	2.1	2.1	3.2	3.2	3.2	3.2
77.5°	18.9	10.5	7.4	4.2	4.2	4.2	5.3	5.3	3.2	3.2	3.2
80°	12.6	7.4	5.3	5.3	5.3	4.2	5.3	5.3	3.2	5.3	3.2
82.5°	6.3	5.3	5.3	4.2	4.2	3.2	4.2	4.2	4.2	4.2	3.2
85°	4.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.2	4.2	3.2
87.5°	2.1	2.1	2.1	2.1	3.2	3.2	3.2	3.2	4.2	4.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213144

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8
2.5°	3524.0	3527.1	3518.7	3563.9	3540.8	3542.9	3552.3	3528.2	3533.4	3516.6	3505.1
5°	3906.2	3912.5	3918.8	3920.9	3925.1	3930.4	3924.1	3920.9	3914.6	3893.6	3871.6
7.5°	3846.4	3839.0	3835.9	3840.1	3847.4	3850.6	3845.3	3852.7	3880.0	3891.5	3898.9
10°	3531.3	3497.7	3520.8	3517.7	3491.4	3579.6	3555.5	3569.1	3578.6	3675.2	3734.0
12.5°	3381.2	3402.2	3362.3	3342.3	3368.6	3386.4	3404.3	3366.5	3419.0	3394.8	3472.5
15°	3255.2	3242.6	3238.4	3239.4	3234.2	3259.4	3265.7	3274.1	3281.4	3314.0	3326.6
17.5°	3198.5	3219.5	3227.9	3234.2	3223.7	3212.1	3200.6	3183.8	3189.0	3180.6	3204.8
20°	2622.0	2551.6	2547.4	2588.4	2543.2	2568.4	2629.3	3036.8	3023.1	3181.7	3128.1
22.5°	2188.3	2122.2	2065.5	2016.1	2086.5	2115.9	2229.3	2357.4	2565.3	2532.7	2758.5
25°	1787.2	1763.0	1748.3	1741.0	1746.2	1744.1	1769.3	1829.2	1923.7	2146.3	2434.0
27.5°	1671.7	1660.1	1654.9	1638.1	1650.7	1646.5	1666.4	1679.0	1707.4	1729.4	1822.9
30°	1580.3	1566.7	1557.2	1539.4	1552.0	1553.0	1559.3	1591.9	1603.4	1622.3	1651.7
32.5°	577.5	340.2	319.2	303.5	331.8	432.6	759.2	1327.3	1514.2	1528.9	1562.5
35°	56.7	47.3	42.0	42.0	43.1	47.3	63.0	165.9	303.5	1172.9	1468.0
37.5°	22.1	18.9	15.8	14.7	15.8	17.9	24.2	31.5	43.1	89.3	398.0
40°	9.5	8.4	7.4	7.4	7.4	7.4	8.4	10.5	15.8	29.4	46.2
42.5°	6.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	7.4	9.5	18.9
45°	4.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.2	5.3	8.4
47.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.2
50°	3.2	3.2	3.2	3.2	2.1	3.2	2.1	3.2	3.2	3.2	3.2
52.5°	3.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2
55°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2
57.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
60°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
62.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2	2.1
65°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	2.1
67.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
70°	3.2	3.2	2.1	3.2	2.1	2.1	3.2	3.2	3.2	2.1	2.1
72.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	6.3	6.3	4.2
75°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	5.3	6.3	5.3
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	5.3	5.3	5.3
80°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.2	4.2	4.2
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.2	4.2	4.2
85°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213144

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8
2.5°	3485.1	3484.1	3506.1	3522.9	3516.6	3522.9	3530.3	3531.3	3533.4	3525.0	3521.9
5°	3829.6	3797.0	3734.0	3688.9	3636.3	3540.8	3493.5	3498.8	3499.8	3496.7	3500.9
7.5°	3895.7	3892.6	3870.5	3861.1	3825.4	3757.1	3647.9	3629.0	3582.8	3553.4	3529.2
10°	3729.8	3805.4	3825.4	3859.0	3880.0	3867.4	3775.0	3761.3	3731.9	3698.3	3705.7
12.5°	3550.2	3612.2	3615.3	3798.1	3839.0	3843.2	3807.5	3826.4	3830.6	3755.0	3710.9
15°	3329.7	3359.1	3421.1	3591.2	3715.1	3792.8	3815.9	3826.4	3775.0	3771.8	3754.0
17.5°	3233.1	3252.0	3280.4	3375.9	3563.9	3678.4	3776.0	3768.7	3788.6	3773.9	3728.8
20°	3111.3	3127.1	3177.5	3225.8	3318.2	3470.4	3653.2	3666.8	3693.1	3689.9	3702.5
22.5°	3109.2	3053.6	3062.0	3099.8	3196.4	3332.9	3527.1	3572.3	3589.1	3600.6	3614.3
25°	2466.6	2908.7	2989.5	3013.7	3076.7	3156.5	3385.4	3402.2	3433.7	3485.1	3522.9
27.5°	2136.9	2437.2	2760.6	2928.6	2968.5	3034.7	3171.2	3196.4	3303.5	3316.1	3374.9
30°	1686.4	1918.5	2401.5	2805.8	2871.9	2918.1	3014.7	3065.1	3111.3	3161.7	3223.7
32.5°	1586.6	1623.4	1891.2	2321.7	2836.2	2801.6	2873.0	2903.4	2953.8	2997.9	3043.1
35°	1495.3	1520.5	1577.2	1901.7	2310.1	2706.0	2754.3	2774.3	2802.6	2836.2	2868.8
37.5°	1399.7	1437.5	1476.4	1563.5	2136.9	2630.4	2629.3	2652.4	2669.2	2697.6	2724.9
40°	254.1	1319.9	1382.9	1439.6	1657.0	2098.0	2511.7	2522.2	2533.8	2551.6	2580.0
42.5°	41.0	220.5	1295.8	1350.4	1412.3	1878.6	2458.2	2415.1	2407.8	2420.4	2445.6
45°	21.0	53.6	260.4	1261.1	1316.8	1498.4	2009.8	2340.6	2333.2	2309.1	2314.3
47.5°	15.8	33.6	64.1	435.8	1232.8	1286.3	1854.4	1834.5	1974.1	2241.9	2200.9
50°	13.7	23.1	37.8	89.3	1088.9	1184.5	1428.1	1668.5	1742.0	1751.5	2072.8
52.5°	12.6	15.8	27.3	57.8	228.9	1095.2	1161.4	1245.4	1369.3	1634.9	1628.6
55°	11.6	14.7	23.1	38.9	79.8	987.1	1055.3	1071.1	1097.3	1224.4	1392.4
57.5°	6.3	13.7	22.1	33.6	59.9	180.6	957.7	970.3	991.3	996.5	1056.4
60°	3.2	12.6	20.0	29.4	44.1	84.0	861.0	875.7	888.3	890.4	909.3
62.5°	2.1	11.6	16.8	27.3	36.8	59.9	203.7	415.8	790.7	790.7	812.7
65°	2.1	8.4	10.5	17.9	33.6	49.4	86.1	99.8	194.3	477.8	713.0
67.5°	2.1	3.2	9.5	14.7	25.2	37.8	63.0	73.5	88.2	100.8	186.9
70°	2.1	2.1	8.4	9.5	15.8	28.4	45.2	51.5	59.9	68.3	78.8
72.5°	2.1	2.1	7.4	7.4	10.5	18.9	34.7	37.8	43.1	48.3	55.7
75°	5.3	4.2	6.3	6.3	7.4	14.7	26.3	29.4	31.5	35.7	41.0
77.5°	5.3	5.3	5.3	5.3	5.3	9.5	16.8	18.9	22.1	24.2	28.4
80°	4.2	4.2	4.2	5.3	5.3	6.3	10.5	11.6	12.6	15.8	16.8
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	6.3	7.4	9.5
85°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.2	4.2	4.2	4.2
87.5°	3.2	3.2	3.2	2.1	2.1	3.2	3.2	3.2	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213144

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8
2.5°	3520.8	3514.5	3509.3	3512.4	3503.0	3498.8	3501.9	3503.0	3505.1	3510.3	3511.4
5°	3511.4	3509.3	3518.7	3524.0	3521.9	3524.0	3524.0	3519.8	3513.5	3517.7	3508.2
7.5°	3505.1	3491.4	3480.9	3483.0	3472.5	3485.1	3496.7	3513.5	3518.7	3518.7	3508.2
10°	3613.2	3598.5	3539.7	3499.8	3473.6	3450.5	3505.1	3449.4	3475.7	3375.9	3490.4
12.5°	3702.5	3722.5	3696.2	3587.0	3568.1	3498.8	3538.7	3470.4	3450.5	3336.0	3372.8
15°	3738.2	3700.4	3692.0	3661.6	3620.6	3600.6	3493.5	3482.0	3449.4	3462.0	3413.7
17.5°	3706.7	3725.6	3700.4	3680.5	3638.4	3591.2	3527.1	3470.4	3425.3	3324.5	3409.5
20°	3676.3	3701.5	3625.8	3638.4	3642.7	3588.0	3554.4	3507.2	3450.5	3356.0	3282.5
22.5°	3625.8	3608.0	3614.3	3595.4	3579.6	3587.0	3540.8	3508.2	3412.7	3369.6	3269.9
25°	3543.9	3537.6	3554.4	3552.3	3514.5	3501.9	3478.8	3444.2	3406.4	3337.1	3255.2
27.5°	3410.6	3443.1	3472.5	3486.2	3466.2	3432.6	3420.0	3400.1	3373.8	3303.5	3242.6
30°	3269.9	3306.6	3340.2	3369.6	3387.5	3372.8	3361.2	3349.7	3309.8	3263.6	3195.3
32.5°	3109.2	3157.5	3203.7	3239.4	3278.3	3289.8	3281.4	3272.0	3238.4	3196.4	3141.8
35°	2923.4	2989.5	3056.7	3120.8	3137.6	3164.9	3192.2	3176.4	3158.6	3116.6	3066.2
37.5°	2765.9	2813.1	2861.4	2942.3	3001.1	3035.7	3084.0	3090.3	3059.9	3039.9	2973.8
40°	2603.1	2646.1	2716.5	2763.8	2844.6	2884.5	2936.0	2959.1	2951.7	2940.2	2882.4
42.5°	2475.0	2496.0	2542.2	2584.2	2664.0	2745.9	2791.1	2816.3	2842.5	2833.1	2803.7
45°	2338.5	2357.4	2373.1	2409.9	2487.6	2560.0	2615.7	2653.5	2700.7	2722.8	2687.1
47.5°	2203.0	2208.3	2227.2	2257.6	2303.8	2359.5	2452.9	2509.6	2553.7	2596.8	2573.7
50°	2099.1	2080.2	2083.3	2102.2	2140.0	2194.6	2261.8	2341.6	2392.0	2444.5	2449.8
52.5°	1834.5	1987.8	1951.0	1961.5	1981.5	2007.7	2078.1	2156.8	2218.8	2263.9	2309.1
55°	1539.4	1569.8	1864.9	1822.9	1835.5	1858.6	1891.2	1969.9	2029.8	2092.8	2155.8
57.5°	1193.9	1420.7	1432.3	1705.3	1699.0	1701.1	1728.4	1773.5	1833.4	1912.2	1965.7
60°	928.3	1023.8	1209.7	1304.2	1543.6	1552.0	1567.7	1594.0	1645.4	1720.0	1805.0
62.5°	819.0	831.6	897.8	1039.6	1195.0	1382.9	1416.5	1420.7	1443.8	1518.4	1617.1
65°	719.3	727.7	747.6	762.3	892.5	1074.2	1235.9	1262.2	1276.9	1321.0	1405.0
67.5°	495.6	626.9	644.7	655.2	667.8	751.8	952.4	1085.8	1102.6	1141.4	1214.9
70°	95.6	198.5	542.9	554.4	560.7	579.6	612.2	824.3	935.6	972.4	1006.0
72.5°	65.1	76.7	92.4	218.4	462.0	472.5	479.9	507.2	695.1	802.2	820.1
75°	47.3	52.5	62.0	76.7	94.5	307.7	381.2	394.8	408.5	563.9	654.2
77.5°	33.6	37.8	42.0	49.4	57.8	74.6	107.1	295.1	308.7	316.1	446.3
80°	18.9	23.1	28.4	32.6	36.8	42.0	54.6	68.3	152.3	222.6	234.2
82.5°	10.5	12.6	14.7	17.9	20.0	25.2	30.5	36.8	48.3	71.4	151.2
85°	5.3	5.3	5.3	7.4	8.4	11.6	13.7	15.8	22.1	30.5	42.0
87.5°	3.2	3.2	4.2	4.2	4.2	5.3	5.3	5.3	6.3	9.5	13.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213144

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	3498.8	3498.8	3498.8	3498.8	3498.8
2.5°	3512.4	3509.3	3509.3	3521.9	3518.7
5°	3506.1	3503.0	3501.9	3515.6	3509.3
7.5°	3500.9	3489.3	3486.2	3498.8	3493.5
10°	3479.9	3471.5	3476.7	3472.5	3470.4
12.5°	3444.2	3438.9	3416.9	3419.0	3436.8
15°	3380.1	3401.1	3363.3	3396.9	3404.3
17.5°	3262.5	3309.8	3346.5	3366.5	3369.6
20°	3315.0	3330.8	3311.9	3312.9	3325.5
22.5°	3246.8	3254.1	3259.4	3253.1	3280.4
25°	3137.6	3109.2	3170.1	3182.7	3226.8
27.5°	3104.0	3080.9	3109.2	3107.1	3143.9
30°	3076.7	3002.1	3014.7	3034.7	3079.8
32.5°	3037.8	2920.2	2907.6	2951.7	3002.1
35°	2969.6	2858.3	2828.9	2857.2	2932.8
37.5°	2911.8	2772.2	2713.3	2751.2	2849.9
40°	2825.7	2704.9	2613.6	2647.2	2763.8
42.5°	2722.8	2647.2	2506.5	2529.6	2662.9
45°	2618.8	2551.6	2402.5	2414.1	2572.6
47.5°	2512.8	2450.8	2294.4	2296.5	2457.1
50°	2408.8	2326.9	2197.8	2161.0	2334.3
52.5°	2273.4	2197.8	2100.1	2040.3	2217.7
55°	2145.3	2060.2	1988.8	1896.4	2085.4
57.5°	2020.3	1925.8	1877.5	1758.8	1935.3
60°	1849.2	1804.0	1732.6	1619.2	1799.8
62.5°	1673.8	1659.1	1586.6	1469.0	1632.8
65°	1469.0	1503.7	1429.1	1328.3	1459.6
67.5°	1275.8	1337.8	1255.9	1193.9	1292.6
70°	1070.0	1141.4	1095.2	1073.2	1115.2
72.5°	867.3	936.7	940.9	925.1	938.8
75°	669.9	746.6	788.6	764.4	767.6
77.5°	508.2	545.0	591.2	610.1	605.9
80°	314.0	378.0	415.8	454.7	441.0
82.5°	158.6	212.1	258.3	300.3	280.4
85°	66.2	85.1	118.7	156.5	150.2
87.5°	20.0	33.6	35.7	50.4	47.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)