

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: P1213846

Luminaire Tested: 4SNLED-LD5-62SL-RM-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213846
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-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

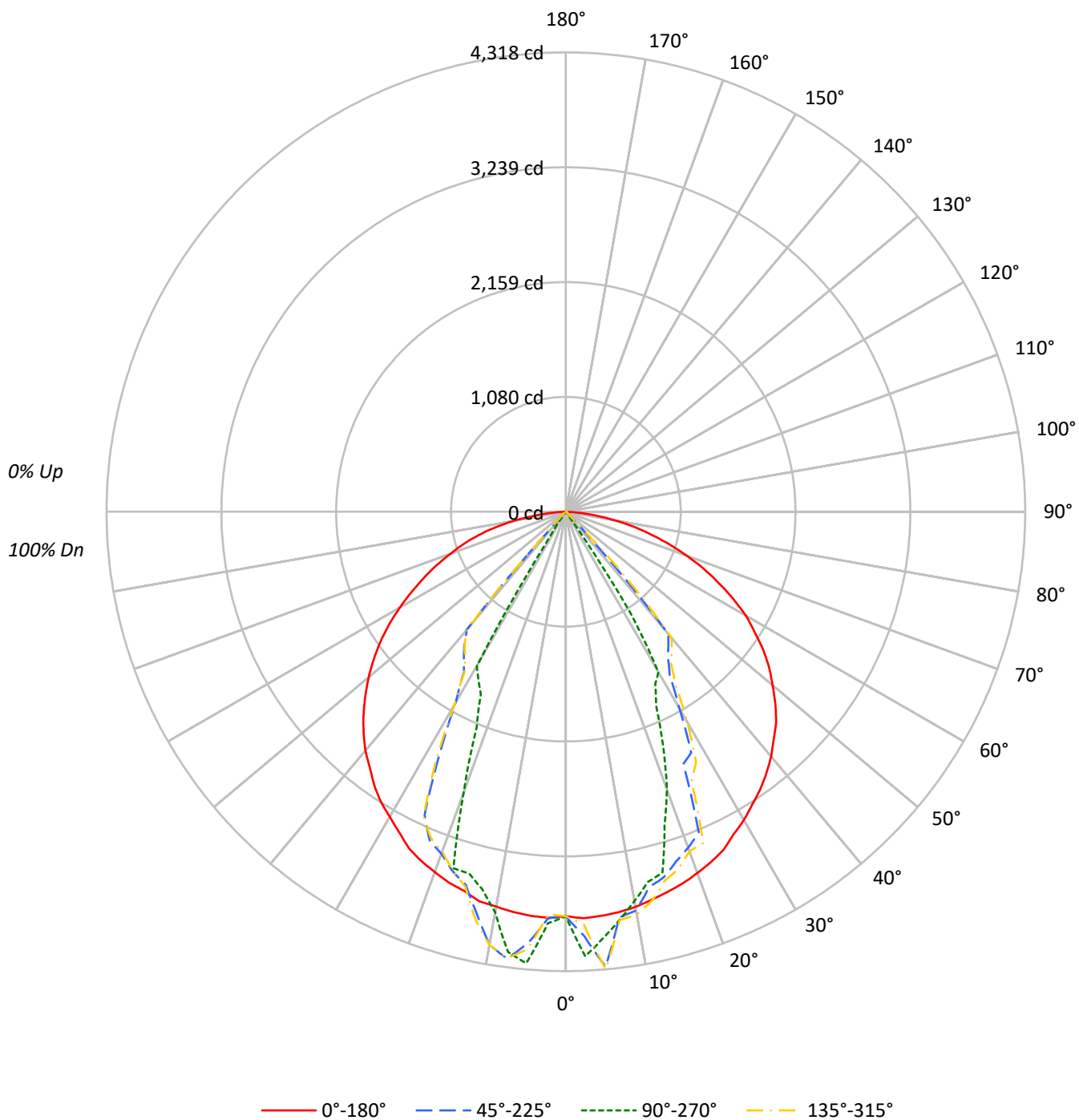
Lumens per Lamp: N/A
Luminaire Lumens: 5406.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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

TEST NUMBER: P1213846

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L940-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1213846

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L940-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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°	30723	30723	30723	30723
5°	30849	31599	30840	33463
10°	30775	28593	30756	29418
15°	30691	26688	30615	26758
20°	30726	21021	30639	21280
25°	30815	15213	30665	14355
30°	30674	13345	30351	12828
35°	30766	295	30314	356
40°	30871	64	30132	64
45°	30980	38	29816	28
50°	30743	30	29333	30
55°	30563	21	28685	21
60°	29985	23	27641	23
65°	28422	36	26398	24
70°	26368	40	25101	40
75°	23323	44	23706	44
80°	18943	51	20026	51
85°	11149	60	11382	60

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 33451 cd/sqm

TEST NUMBER: P1213846

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.4	7.1
10°-20°	1040.4	19.2
20°-30°	1323.9	24.5
30°-40°	1118.4	20.7
40°-50°	731.1	13.5
50°-60°	460.7	8.5
60°-70°	245.2	4.5
70°-80°	89.4	1.7
80°-90°	15.4	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°	2745.8	50.8
0°-40°	3864.1	71.5
0°-60°	5056.0	93.5
0°-90°	5406.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5406.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3802	3802	3802	3802	3802	
5°	3813	4023	3812	4261	3813	363
15°	3699	3511	3690	3520	3699	1046
25°	3506	2005	3489	1892	3506	1612
35°	3187	38	3140	46	3187	1994
45°	2796	5	2690	3	2796	2150
55°	2266	2	2127	2	2266	2019
65°	1586	3	1473	2	1586	1571
75°	834	3	848	3	834	885
85°	163	3	167	3	163	206
90°	0	0	0	0	0	

TEST NUMBER: P1213846

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9
2.5°	3823.6	3825.9	3827.0	3829.3	3832.7	3833.9	3836.1	3833.9	3833.9	3833.9	3833.9
5°	3813.3	3817.9	3821.3	3825.9	3833.9	3835.0	3844.1	3845.3	3849.8	3859.0	3865.8
7.5°	3796.2	3800.8	3807.6	3819.0	3830.4	3843.0	3859.0	3876.1	3900.0	3922.9	3951.4
10°	3771.1	3776.8	3784.8	3795.1	3851.0	3859.0	3894.3	3943.4	3957.1	4029.0	4082.6
12.5°	3734.6	3754.0	3774.5	3783.6	3837.3	3921.7	4040.4	4016.4	3990.2	4225.2	4221.8
15°	3699.2	3725.5	3715.2	3789.4	3838.4	3985.6	3935.4	4042.7	4238.9	4191.0	4193.3
17.5°	3661.6	3667.3	3724.3	3785.9	3873.8	3949.1	4010.7	4157.9	4196.7	4200.1	4157.9
20°	3613.6	3641.0	3724.3	3780.2	3928.6	3963.9	4097.4	4172.7	4156.8	4118.0	4046.1
22.5°	3564.6	3647.9	3732.3	3811.0	3914.9	4009.6	4075.8	4111.1	4027.8	3874.9	3792.8
25°	3506.4	3555.4	3666.1	3781.4	3911.4	3966.2	4005.0	3948.0	3839.6	3702.6	3564.6
27.5°	3416.2	3495.0	3636.5	3766.5	3884.1	3950.2	3887.5	3750.6	3576.0	3485.8	3423.1
30°	3346.6	3449.3	3565.7	3691.2	3813.3	3852.1	3692.4	3536.0	3416.2	3326.1	3312.4
32.5°	3262.2	3408.2	3518.9	3638.7	3741.4	3690.1	3534.9	3332.9	3233.7	3199.4	3213.1
35°	3186.9	3297.6	3442.5	3560.0	3634.2	3518.9	3273.6	3148.1	3100.2	3119.6	3094.5
37.5°	3096.7	3242.8	3376.3	3477.9	3452.7	3279.3	3071.6	2991.8	2997.5	2981.5	2933.6
40°	3003.2	3142.4	3281.6	3377.4	3289.6	3024.9	2886.8	2869.7	2873.1	2821.8	2753.3
42.5°	2893.6	3020.3	3159.5	3246.2	3056.8	2850.3	2756.7	2759.0	2729.3	2657.5	2620.9
45°	2795.5	2911.9	3056.8	3064.8	2832.0	2659.7	2632.4	2602.7	2536.5	2512.5	2485.2
47.5°	2670.0	2798.9	2918.7	2875.4	2611.8	2504.6	2484.0	2419.0	2385.9	2367.6	2344.8
50°	2536.5	2666.6	2776.1	2652.9	2404.1	2379.0	2311.7	2260.4	2237.6	2218.2	2197.6
52.5°	2409.9	2517.1	2628.9	2416.7	2244.4	2220.4	2144.0	2114.3	2091.5	2069.8	2065.3
55°	2266.1	2360.8	2437.2	2191.9	2091.5	2035.6	1980.8	1960.3	1938.6	1928.3	1945.5
57.5°	2102.9	2210.2	2198.8	1970.6	1926.1	1845.0	1824.5	1810.8	1794.8	1801.7	1659.1
60°	1955.7	2037.9	1982.0	1808.5	1733.2	1678.5	1660.2	1651.1	1660.2	1521.0	1337.3
62.5°	1774.3	1866.7	1753.8	1619.1	1539.2	1513.0	1497.0	1509.6	1376.1	1223.2	1178.7
65°	1586.0	1686.4	1519.8	1416.0	1365.8	1343.0	1341.8	1235.7	1104.5	1045.2	1045.2
67.5°	1404.6	1508.4	1293.9	1207.2	1187.8	1190.1	1123.9	963.0	926.5	886.6	771.3
70°	1211.8	1303.1	1069.1	1016.7	1005.2	997.3	836.4	793.0	749.7	643.5	634.4
72.5°	1020.1	1064.6	859.2	846.6	844.4	701.7	669.8	595.6	545.4	532.9	527.2
75°	834.1	820.4	678.9	690.3	581.9	531.7	480.4	437.0	430.2	425.6	106.1
77.5°	658.4	589.9	535.1	465.5	416.5	353.7	343.4	336.6	221.4	79.9	65.0
80°	479.2	382.2	356.0	302.4	257.9	247.6	253.3	77.6	61.6	51.3	44.5
82.5°	304.7	244.2	199.7	174.6	170.0	74.2	54.8	44.5	38.8	33.1	27.4
85°	163.2	108.4	100.4	84.4	50.2	34.2	28.5	21.7	18.3	14.8	13.7
87.5°	51.3	43.4	35.4	28.5	17.1	11.4	9.1	8.0	6.8	5.7	5.7
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: P1213846

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9
2.5°	3831.6	3833.9	3832.7	3836.1	3836.1	3840.7	3844.1	3847.5	3854.4	3857.8	3884.1
5°	3880.6	3886.3	3903.5	3919.4	3938.8	3944.5	3977.6	3985.6	4024.4	4029.0	4156.8
7.5°	3990.2	4011.9	4052.9	4094.0	4135.1	4161.3	4207.0	4235.5	4266.3	4293.7	4395.2
10°	4122.5	4159.0	4199.0	4240.1	4264.0	4314.2	4341.6	4346.2	4338.2	4293.7	4129.4
12.5°	4252.6	4289.1	4272.0	4280.0	4308.5	4219.5	4232.1	4168.2	4212.7	3992.5	3829.3
15°	4234.4	4232.1	4189.9	4052.9	4075.8	3905.7	3837.3	3784.8	3827.0	3804.2	3779.1
17.5°	4179.6	4075.8	4002.7	3838.4	3768.8	3720.9	3722.0	3723.2	3702.6	3724.3	3660.4
20°	3948.0	3831.6	3723.2	3665.0	3644.4	3610.2	3627.3	3610.2	3611.4	3618.2	3520.1
22.5°	3639.9	3604.5	3541.7	3560.0	3553.2	3584.0	3561.1	3525.8	3537.2	3485.8	3411.7
25°	3515.5	3474.4	3472.1	3479.0	3468.7	3455.0	3434.5	3380.9	3377.4	3361.5	3327.2
27.5°	3390.0	3392.3	3399.1	3378.6	3342.1	3314.7	3283.9	3257.6	3267.9	3249.6	3202.9
30°	3303.3	3302.1	3261.1	3242.8	3175.5	3176.6	3168.6	3152.7	3142.4	3143.5	3113.9
32.5°	3180.0	3144.7	3097.9	3075.1	3069.4	3048.8	3032.9	3036.3	3044.3	3015.7	3046.5
35°	3053.4	2980.4	2973.5	2954.1	2935.9	2922.2	2927.9	2905.1	2903.9	2900.5	2649.5
37.5°	2883.4	2848.0	2844.6	2824.0	2811.5	2808.1	2786.4	2789.8	2800.1	2818.3	2259.2
40°	2743.0	2711.1	2703.1	2702.0	2674.6	2672.3	2678.0	2699.7	2714.5	2600.4	2153.1
42.5°	2592.4	2594.7	2569.6	2553.6	2557.0	2567.3	2594.7	2519.4	2182.8	2080.1	1968.3
45°	2463.5	2452.1	2438.4	2433.8	2463.5	2442.9	2141.7	1976.3	1936.3	1931.8	1618.0
47.5°	2328.8	2325.4	2319.7	2323.1	2154.3	1920.3	1851.9	1830.2	1837.1	1832.5	1389.8
50°	2193.1	2197.6	2197.6	1919.2	1761.7	1723.0	1728.7	1748.1	1627.1	1518.7	1295.1
52.5°	2075.5	2040.2	1748.1	1647.6	1612.3	1629.4	1588.3	1436.6	1327.0	1263.1	1198.1
55°	1857.6	1597.4	1532.4	1516.4	1529.0	1377.2	1283.7	1185.5	1157.0	1150.2	1112.5
57.5°	1461.7	1409.2	1414.9	1351.0	1206.1	1120.5	1082.8	1069.1	1056.6	1047.5	91.3
60°	1292.8	1307.6	1196.9	1060.0	1001.8	990.4	981.3	968.7	966.5	950.5	58.2
62.5°	1183.2	1040.6	944.8	910.5	896.8	893.4	876.3	870.6	739.4	101.6	43.4
65°	892.3	834.1	815.8	807.8	793.0	793.0	658.4	103.8	84.4	73.0	38.8
67.5°	728.0	723.4	714.3	704.0	479.2	100.4	87.9	76.4	66.2	58.2	34.2
70°	616.2	613.9	559.1	102.7	85.6	75.3	66.2	59.3	54.8	49.1	30.8
72.5°	505.5	102.7	86.7	75.3	65.0	59.3	53.6	47.9	43.4	39.9	25.1
75°	78.7	69.6	61.6	55.9	51.3	45.6	41.1	37.7	36.5	31.9	17.1
77.5°	57.1	49.1	44.5	39.9	35.4	31.9	27.4	24.0	21.7	18.3	12.6
80°	39.9	35.4	31.9	26.2	22.8	19.4	17.1	14.8	13.7	11.4	5.7
82.5°	22.8	19.4	17.1	13.7	12.6	10.3	9.1	8.0	8.0	5.7	5.7
85°	10.3	10.3	8.0	6.8	5.7	5.7	5.7	4.6	4.6	3.4	3.4
87.5°	4.6	4.6	4.6	4.6	4.6	3.4	3.4	3.4	3.4	3.4	2.3
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: P1213846

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9
2.5°	3920.6	3935.4	3963.9	3993.6	3960.5	4079.2	4070.0	4110.0	4131.7	4141.9	4165.9
5°	4269.7	4335.9	4357.6	4292.5	4254.9	4216.1	4128.2	4062.1	4070.0	4048.4	3969.6
7.5°	4262.9	4121.4	3930.8	3844.1	3837.3	3827.0	3854.4	3870.4	3872.6	3871.5	3869.2
10°	3902.3	3829.3	3816.7	3805.3	3809.9	3767.7	3748.3	3693.5	3723.2	3707.2	3712.9
12.5°	3792.8	3775.7	3708.3	3614.8	3670.7	3628.5	3604.5	3620.5	3602.2	3585.1	3579.4
15°	3727.7	3617.1	3579.4	3556.6	3540.6	3531.5	3539.5	3521.2	3515.5	3512.1	3520.1
17.5°	3593.1	3548.6	3507.5	3447.0	3448.2	3444.8	3467.6	3501.8	3504.1	3328.4	3169.8
20°	3487.0	3450.5	3398.0	3360.3	3411.7	3320.4	2967.8	2800.1	2773.8	2773.8	2778.4
22.5°	3402.5	3321.5	3325.0	3265.6	2785.2	2687.1	2689.4	2699.7	2652.9	2493.1	2476.0
25°	3287.3	3274.7	3024.9	2614.1	2617.5	2541.1	2423.5	2258.1	2079.0	2079.0	2049.3
27.5°	3200.6	2934.7	2569.6	2552.5	2295.7	2133.7	2033.3	1881.6	1861.0	1841.6	1843.9
30°	3126.4	2482.9	2492.0	2133.7	1944.3	1809.7	1801.7	1776.6	1764.0	1760.6	1748.1
32.5°	2471.5	2417.8	2085.8	1816.5	1742.3	1720.7	1710.4	1681.9	1680.7	1659.1	1508.4
35°	2317.4	2122.3	1745.8	1672.7	1651.1	1630.5	1613.4	1082.8	127.8	51.3	44.5
37.5°	2141.7	1773.2	1614.6	1581.5	1560.9	1153.6	115.2	39.9	28.5	20.5	18.3
40°	1815.4	1583.7	1533.5	1497.0	617.3	39.9	25.1	19.4	11.4	10.3	9.1
42.5°	1531.3	1492.5	1438.8	438.2	45.6	19.4	12.6	9.1	8.0	8.0	6.8
45°	1433.1	1398.9	579.6	43.4	28.5	9.1	8.0	8.0	6.8	4.6	4.6
47.5°	1341.8	1181.0	52.5	27.4	18.3	8.0	6.8	4.6	4.6	4.6	3.4
50°	1244.9	65.0	36.5	20.5	11.4	4.6	4.6	4.6	4.6	3.4	3.4
52.5°	232.8	45.6	29.7	18.3	5.7	4.6	4.6	4.6	3.4	3.4	3.4
55°	54.8	36.5	27.4	16.0	4.6	4.6	4.6	3.4	3.4	3.4	2.3
57.5°	41.1	27.4	21.7	14.8	4.6	3.4	3.4	3.4	3.4	3.4	2.3
60°	34.2	19.4	17.1	13.7	3.4	3.4	3.4	3.4	3.4	3.4	2.3
62.5°	24.0	16.0	12.6	10.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4
65°	19.4	12.6	10.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
67.5°	17.1	10.3	6.8	2.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4
70°	13.7	3.4	3.4	2.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4
72.5°	11.4	3.4	2.3	2.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4
75°	11.4	5.7	2.3	2.3	3.4	3.4	4.6	4.6	3.4	3.4	3.4
77.5°	8.0	5.7	2.3	2.3	3.4	3.4	4.6	4.6	3.4	3.4	3.4
80°	4.6	5.7	2.3	3.4	3.4	6.8	8.0	4.6	3.4	3.4	3.4
82.5°	4.6	5.7	6.8	6.8	3.4	5.7	6.8	5.7	4.6	3.4	3.4
85°	4.6	3.4	4.6	5.7	3.4	5.7	5.7	4.6	4.6	3.4	3.4
87.5°	2.3	3.4	3.4	4.6	4.6	4.6	5.7	4.6	4.6	4.6	3.4
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: P1213846

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9
2.5°	4177.3	4181.9	4110.0	4084.9	4106.6	4102.0	4082.6	4010.7	4002.7	3954.8	3885.2
5°	3992.5	4023.3	3985.6	4050.6	4019.8	4050.6	4144.2	4187.6	4258.3	4301.7	4317.6
7.5°	3863.5	3870.4	3870.4	3876.1	3881.8	3882.9	3876.1	3871.5	3852.1	3828.1	3871.5
10°	3707.2	3715.2	3728.9	3726.6	3725.5	3749.4	3755.1	3804.2	3801.9	3811.0	3844.1
12.5°	3626.2	3564.6	3620.5	3605.6	3626.2	3594.2	3653.6	3643.3	3646.7	3674.1	3744.9
15°	3491.5	3510.9	3524.6	3524.6	3532.6	3525.8	3518.9	3565.7	3594.2	3595.4	3590.8
17.5°	3232.5	3085.3	3236.0	3197.2	3506.4	3514.4	3488.1	3466.4	3466.4	3483.6	3520.1
20°	2775.0	2778.4	2779.5	2794.4	2812.6	2811.5	2812.6	3262.2	3475.6	3426.5	3393.4
22.5°	2432.7	2390.5	2469.2	2463.5	2561.6	2670.0	2773.8	2763.6	2770.4	3087.6	3372.9
25°	1950.0	2004.8	1960.3	1979.7	2090.4	2219.3	2299.2	2508.0	2735.0	2719.1	2793.2
27.5°	1835.9	1821.1	1841.6	1841.6	1856.5	1873.6	1918.1	2035.6	2237.6	2449.8	2650.6
30°	1727.5	1740.1	1742.3	1762.9	1774.3	1785.7	1792.6	1837.1	1882.7	2029.9	2277.5
32.5°	1297.3	1137.6	1497.0	1594.0	1676.2	1695.6	1709.3	1727.5	1760.6	1782.3	1906.7
35°	37.7	37.7	39.9	45.6	58.2	392.5	1494.7	1647.6	1669.3	1696.7	1719.5
37.5°	18.3	13.7	16.0	17.1	20.5	28.5	41.1	127.8	1422.9	1608.8	1634.0
40°	8.0	8.0	8.0	8.0	9.1	11.4	17.1	28.5	43.4	1144.5	1543.8
42.5°	6.8	6.8	6.8	6.8	6.8	6.8	8.0	10.3	20.5	49.1	810.1
45°	4.6	4.6	3.4	4.6	4.6	5.7	6.8	6.8	9.1	30.8	55.9
47.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	5.7	6.8	20.5	29.7
50°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	16.0	20.5
52.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	6.8	18.3
55°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.4	3.4	4.6	16.0
57.5°	2.3	2.3	2.3	2.3	2.3	3.4	2.3	2.3	3.4	3.4	14.8
60°	2.3	2.3	2.3	2.3	2.3	3.4	3.4	3.4	3.4	3.4	13.7
62.5°	3.4	3.4	2.3	3.4	2.3	2.3	3.4	3.4	3.4	3.4	9.1
65°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.3	3.4
67.5°	3.4	3.4	3.4	3.4	2.3	3.4	2.3	3.4	3.4	2.3	2.3
70°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.3	2.3	2.3	2.3
72.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.3	2.3	2.3	2.3
75°	3.4	3.4	3.4	3.4	3.4	3.4	4.6	4.6	2.3	2.3	2.3
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	5.7	6.8	5.7	5.7	2.3
80°	3.4	3.4	3.4	3.4	3.4	3.4	5.7	5.7	5.7	5.7	8.0
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	4.6	4.6	4.6	4.6	5.7
85°	3.4	3.4	3.4	3.4	3.4	3.4	4.6	4.6	4.6	3.4	4.6
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.6	3.4	3.4	3.4
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: P1213846

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9
2.5°	3890.9	3852.1	3839.6	3813.3	3811.0	3813.3	3807.6	3799.6	3804.2	3796.2	3789.4
5°	4326.8	4222.9	4155.6	4065.5	3941.1	3913.7	3906.9	3868.1	3854.4	3849.8	3831.6
7.5°	3974.2	4163.6	4277.7	4316.5	4170.5	4136.2	4096.3	4064.3	4033.5	3975.3	3940.0
10°	3817.9	3827.0	3936.5	4064.3	4272.0	4300.5	4322.2	4252.6	4233.2	4084.9	4052.9
12.5°	3781.4	3782.5	3795.1	3872.6	4035.8	4054.1	4130.5	4171.6	4221.8	4250.3	4227.5
15°	3614.8	3707.2	3775.7	3782.5	3797.3	3829.3	3852.1	3994.7	4055.2	4217.2	4208.1
17.5°	3537.2	3566.9	3666.1	3747.1	3733.4	3722.0	3740.3	3759.7	3817.9	3979.9	3977.6
20°	3408.2	3503.0	3556.6	3641.0	3717.5	3720.9	3700.4	3688.9	3666.1	3692.4	3716.3
22.5°	3353.5	3368.3	3468.7	3528.1	3614.8	3645.6	3650.1	3651.3	3638.7	3625.0	3618.2
25°	3347.8	3301.0	3352.3	3426.5	3490.4	3523.5	3561.1	3573.7	3569.1	3569.1	3562.3
27.5°	2739.6	3286.2	3258.8	3307.8	3385.4	3408.2	3427.6	3466.4	3490.4	3507.5	3515.5
30°	2609.5	2707.7	3185.7	3192.6	3271.3	3269.0	3290.7	3322.7	3353.5	3393.4	3403.7
32.5°	2308.3	2549.1	2916.5	3077.4	3159.5	3167.5	3178.9	3188.0	3216.6	3261.1	3299.9
35°	1849.6	2322.0	2498.9	3022.6	3037.4	3053.4	3060.2	3081.9	3091.0	3109.3	3143.5
37.5°	1673.9	1919.2	2397.3	2614.1	2897.1	2910.8	2947.3	2956.4	2971.2	2986.1	3012.3
40°	1572.3	1639.7	1995.7	2334.5	2784.1	2793.2	2805.8	2828.6	2829.7	2846.9	2870.8
42.5°	1491.3	1534.7	1638.5	2229.6	2704.2	2703.1	2673.4	2688.3	2695.1	2713.4	2746.5
45°	1191.2	1440.0	1506.2	1821.1	2153.1	2308.3	2606.1	2557.0	2555.9	2562.7	2598.1
47.5°	60.5	1354.4	1401.2	1502.7	2033.3	2039.0	2077.8	2404.1	2454.4	2438.4	2441.8
50°	41.1	93.6	1305.3	1352.1	1752.6	1894.1	1922.6	1937.5	2125.7	2335.7	2301.5
52.5°	31.9	53.6	799.9	1255.1	1424.0	1527.8	1711.5	1816.5	1827.9	1912.4	2198.8
55°	28.5	41.1	86.7	1158.1	1210.6	1233.5	1340.7	1524.4	1672.7	1717.2	1720.7
57.5°	25.1	37.7	59.3	523.7	1101.1	1105.7	1123.9	1187.8	1321.3	1443.4	1581.5
60°	22.8	33.1	46.8	90.1	1000.7	1012.1	1015.5	1032.6	1048.6	1131.9	1290.5
62.5°	13.7	26.2	41.1	65.0	791.9	909.4	908.3	919.7	934.5	943.6	975.6
65°	11.4	20.5	35.4	54.8	97.0	120.9	734.8	817.0	826.1	838.7	844.4
67.5°	10.3	18.3	26.2	43.4	73.0	83.3	95.8	118.7	648.1	730.3	741.7
70°	9.1	12.6	21.7	36.5	59.3	63.9	71.9	82.2	97.0	119.8	586.5
72.5°	5.7	9.1	14.8	26.2	45.6	51.3	55.9	62.8	69.6	83.3	95.8
75°	2.3	6.8	12.6	19.4	35.4	38.8	42.2	46.8	52.5	61.6	68.5
77.5°	2.3	5.7	10.3	13.7	22.8	26.2	30.8	34.2	38.8	43.4	50.2
80°	8.0	4.6	6.8	10.3	16.0	17.1	19.4	21.7	25.1	28.5	33.1
82.5°	5.7	6.8	8.0	6.8	8.0	10.3	11.4	13.7	14.8	17.1	18.3
85°	4.6	4.6	5.7	5.7	5.7	5.7	5.7	5.7	6.8	8.0	10.3
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.6	4.6
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: P1213846

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9
2.5°	3789.4	3787.1	3780.2	3780.2	3779.1	3783.6	3787.1	3790.5	3789.4	3796.2	3789.4
5°	3817.9	3812.2	3801.9	3792.8	3789.4	3791.6	3788.2	3791.6	3787.1	3792.8	3782.5
7.5°	3896.6	3877.2	3837.3	3821.3	3800.8	3799.6	3789.4	3787.1	3780.2	3780.2	3767.7
10°	4035.8	3942.2	3930.8	3882.9	3865.8	3782.5	3800.8	3770.0	3766.5	3751.7	3746.0
12.5°	4149.9	4076.9	4055.2	4013.0	3965.1	3796.2	3833.9	3767.7	3764.2	3734.6	3703.8
15°	4152.2	4194.4	4135.1	4018.7	4008.4	3892.0	3815.6	3792.8	3763.1	3674.1	3688.9
17.5°	4018.7	4115.7	4144.2	4119.1	4046.1	3967.4	3860.1	3814.5	3725.5	3685.5	3658.1
20°	3801.9	3900.0	4022.1	4030.1	4075.8	4019.8	3879.5	3805.3	3698.1	3628.5	3605.6
22.5°	3629.6	3701.5	3841.8	3906.9	3962.8	3982.2	3893.2	3783.6	3650.1	3582.8	3569.1
25°	3538.3	3554.3	3596.5	3673.0	3796.2	3885.2	3897.7	3781.4	3711.8	3564.6	3487.0
27.5°	3505.2	3491.5	3474.4	3513.2	3605.6	3714.0	3785.9	3805.3	3631.9	3491.5	3414.0
30°	3420.8	3428.8	3402.5	3388.9	3449.3	3561.1	3688.9	3720.9	3587.4	3442.5	3353.5
32.5°	3317.0	3330.7	3335.2	3311.3	3298.7	3376.3	3514.4	3590.8	3584.0	3372.9	3273.6
35°	3186.9	3225.7	3236.0	3237.1	3216.6	3204.0	3283.9	3442.5	3503.0	3340.9	3197.2
37.5°	3050.0	3061.4	3117.3	3132.1	3132.1	3094.5	3153.8	3280.5	3364.9	3269.0	3103.6
40°	2878.8	2915.3	2967.8	2994.1	3020.3	3023.7	2990.6	3079.6	3218.8	3194.9	3015.7
42.5°	2754.4	2778.4	2810.4	2845.7	2899.4	2913.0	2878.8	2894.8	3039.7	3102.5	2901.6
45°	2609.5	2641.5	2650.6	2689.4	2745.3	2785.2	2784.1	2751.0	2867.4	2945.0	2818.3
47.5°	2461.2	2492.0	2508.0	2527.4	2568.5	2619.8	2648.3	2633.5	2656.3	2808.1	2707.7
50°	2308.3	2325.4	2357.4	2379.0	2406.4	2436.1	2504.6	2518.2	2486.3	2607.2	2585.6
52.5°	2163.4	2169.1	2190.8	2212.5	2249.0	2270.6	2325.4	2366.5	2364.2	2399.6	2449.8
55°	2050.4	2025.3	2029.9	2047.0	2071.0	2104.1	2134.9	2198.8	2220.4	2227.3	2307.2
57.5°	1602.0	1859.9	1882.7	1881.6	1910.1	1924.9	1953.4	1995.7	2073.2	2056.1	2145.1
60°	1456.0	1484.5	1700.1	1725.2	1735.5	1749.2	1783.4	1822.2	1879.3	1915.8	1954.6
62.5°	1110.2	1283.7	1348.7	1539.2	1568.9	1576.9	1599.7	1618.0	1677.3	1760.6	1744.6
65°	859.2	933.4	1131.9	1209.5	1371.5	1392.1	1424.0	1443.4	1460.5	1556.4	1560.9
67.5°	742.8	754.2	807.8	957.3	1060.0	1218.6	1238.0	1255.1	1281.4	1349.8	1392.1
70°	634.4	648.1	662.9	675.5	809.0	914.0	1061.2	1066.9	1084.0	1129.6	1225.5
72.5°	119.8	542.0	551.1	559.1	573.9	643.5	783.9	898.0	904.8	926.5	1014.4
75°	81.0	94.7	130.1	447.3	462.1	466.7	490.6	633.3	738.2	742.8	781.6
77.5°	58.2	65.0	78.7	93.6	238.5	358.3	364.0	390.2	498.6	577.4	584.2
80°	39.9	44.5	52.5	59.3	73.0	95.8	264.7	272.7	286.4	394.8	415.3
82.5°	22.8	26.2	30.8	37.7	43.4	54.8	70.7	91.3	186.0	198.5	263.6
85°	11.4	12.6	14.8	18.3	21.7	26.2	35.4	43.4	59.3	107.3	110.7
87.5°	5.7	5.7	5.7	5.7	9.1	10.3	12.6	16.0	20.5	30.8	39.9
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: P1213846

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9
2.5°	3790.5	3806.5	3820.2	3823.6	3823.6	3825.9	3829.3	3831.6	3833.9	3836.1	3833.9
5°	3783.6	3800.8	3812.2	3815.6	3815.6	3822.4	3828.1	3835.0	3838.4	3838.4	3836.1
7.5°	3766.5	3779.1	3793.9	3803.0	3804.2	3815.6	3825.9	3824.7	3829.3	3831.6	3837.3
10°	3743.7	3743.7	3768.8	3775.7	3781.4	3793.9	3797.3	3804.2	3820.2	3822.4	3837.3
12.5°	3732.3	3720.9	3750.6	3754.0	3773.4	3757.4	3777.9	3784.8	3768.8	3790.5	3762.0
15°	3681.0	3694.6	3690.1	3700.4	3734.6	3716.3	3772.2	3754.0	3795.1	3746.0	3832.7
17.5°	3638.7	3636.5	3654.7	3663.8	3670.7	3709.5	3724.3	3744.9	3760.8	3747.1	3781.4
20°	3607.9	3589.7	3603.4	3613.6	3637.6	3667.3	3676.4	3645.6	3699.2	3790.5	3812.2
22.5°	3549.7	3537.2	3553.2	3553.2	3589.7	3585.1	3619.3	3599.9	3650.1	3756.3	3866.9
25°	3471.0	3472.1	3489.3	3509.8	3516.6	3568.0	3586.2	3611.4	3674.1	3800.8	3868.1
27.5°	3391.1	3384.3	3394.6	3436.8	3472.1	3509.8	3515.5	3601.1	3686.7	3773.4	3832.7
30°	3311.3	3304.4	3311.3	3342.1	3384.3	3409.4	3472.1	3586.2	3666.1	3725.5	3781.4
32.5°	3225.7	3218.8	3234.8	3257.6	3331.8	3335.2	3459.6	3566.9	3629.6	3673.0	3662.7
35°	3134.4	3125.3	3140.1	3175.5	3243.9	3269.0	3399.1	3479.0	3549.7	3570.3	3522.4
37.5°	3024.9	3008.9	3027.1	3076.2	3148.1	3221.1	3329.5	3421.9	3459.6	3404.8	3347.8
40°	2910.8	2899.4	2931.3	2956.4	3040.8	3142.4	3266.8	3331.8	3307.8	3245.1	3182.3
42.5°	2809.2	2785.2	2813.8	2861.7	2957.5	3072.8	3173.2	3209.7	3152.7	3060.2	2987.2
45°	2684.8	2656.3	2690.5	2754.4	2857.1	2988.4	3067.1	3054.5	2957.5	2877.7	2777.3
47.5°	2554.8	2520.5	2554.8	2631.2	2746.5	2885.7	2942.7	2885.7	2763.6	2663.2	2582.1
50°	2427.0	2387.0	2420.1	2535.4	2648.3	2755.6	2754.4	2643.8	2570.7	2461.2	2390.5
52.5°	2300.3	2243.3	2276.3	2401.9	2514.8	2636.9	2546.8	2444.1	2356.2	2260.4	2237.6
55°	2144.0	2082.4	2126.9	2309.4	2396.2	2468.0	2324.3	2234.1	2147.4	2099.5	2071.0
57.5°	1995.7	1928.3	1967.1	2182.8	2246.7	2264.9	2132.6	2004.8	1953.4	1937.5	1896.4
60°	1842.8	1766.3	1802.8	2051.6	2096.1	2021.9	1891.8	1792.6	1782.3	1750.3	1718.4
62.5°	1696.7	1612.3	1635.1	1888.4	1908.9	1774.3	1654.5	1628.2	1603.1	1571.2	1554.1
65°	1529.0	1441.1	1473.1	1715.0	1695.6	1522.1	1454.8	1449.1	1416.0	1389.8	1414.9
67.5°	1374.9	1271.1	1315.6	1525.6	1437.7	1296.2	1268.8	1255.1	1228.9	1243.7	980.1
70°	1206.1	1093.1	1153.6	1321.3	1191.2	1097.7	1087.4	1066.9	1068.0	848.9	715.4
72.5°	1017.8	919.7	1007.5	1097.7	942.5	915.1	900.3	898.0	724.6	588.8	555.7
75°	852.3	753.1	847.8	882.0	750.8	732.5	731.4	604.7	475.8	454.1	443.9
77.5°	665.2	588.8	678.9	627.6	576.2	555.7	498.6	374.3	358.3	343.4	128.9
80°	448.4	454.1	506.6	432.4	410.8	350.3	276.1	264.7	228.2	91.3	71.9
82.5°	272.7	342.3	322.9	270.4	264.7	190.6	174.6	89.0	66.2	52.5	45.6
85°	141.5	173.4	166.6	147.2	109.5	98.1	54.8	42.2	34.2	26.2	21.7
87.5°	47.9	63.9	61.6	49.1	37.7	29.7	19.4	16.0	11.4	9.1	8.0
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: P1213846

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9
2.5°	3831.6	3831.6	3829.3	3831.6	3832.7	3830.4	3830.4	3832.7	3833.9	3835.0	3840.7
5°	3837.3	3839.6	3843.0	3849.8	3851.0	3864.7	3870.4	3873.8	3877.2	3878.4	3870.4
7.5°	3849.8	3857.8	3864.7	3863.5	3855.5	3833.9	3827.0	3821.3	3831.6	3857.8	3888.6
10°	3861.2	3824.7	3756.3	3849.8	3821.3	3847.5	3925.1	3942.2	3994.7	4068.9	4090.6
12.5°	3782.5	3882.9	3904.6	3799.6	3993.6	3921.7	4007.3	4082.6	4104.3	4179.6	4133.9
15°	3866.9	3916.0	3949.1	4054.1	4042.7	4104.3	4128.2	4113.4	4116.8	4136.2	4187.6
17.5°	3865.8	3963.9	3985.6	4056.4	4104.3	4105.4	4098.6	4091.7	4110.0	4124.8	4094.0
20°	3932.0	3963.9	4006.1	4034.7	4043.8	4055.2	4076.9	4059.8	4025.5	3992.5	3978.8
22.5°	3898.9	3970.8	4007.3	4011.9	4006.1	3970.8	3938.8	3890.9	3874.9	3857.8	3863.5
25°	3905.7	3938.8	3934.3	3916.0	3892.0	3825.9	3809.9	3789.4	3758.5	3684.4	3617.1
27.5°	3856.7	3839.6	3819.0	3774.5	3731.2	3695.8	3655.9	3589.7	3534.9	3455.0	3425.4
30°	3774.5	3706.1	3655.9	3629.6	3587.4	3528.1	3467.6	3386.6	3317.0	3301.0	3286.2
32.5°	3617.1	3549.7	3508.7	3444.8	3372.9	3302.1	3232.5	3200.6	3185.7	3188.0	3174.3
35°	3456.2	3396.8	3335.2	3239.4	3185.7	3115.0	3089.9	3083.1	3069.4	3054.5	3038.6
37.5°	3285.0	3215.4	3123.0	3065.9	3012.3	2983.8	2971.2	2961.0	2937.0	2910.8	2892.5
40°	3119.6	2994.1	2942.7	2886.8	2870.8	2858.3	2840.0	2814.9	2781.8	2777.3	2769.3
42.5°	2898.2	2808.1	2763.6	2752.2	2732.8	2711.1	2695.1	2667.7	2654.0	2663.2	2670.0
45°	2688.3	2642.6	2627.8	2614.1	2577.6	2546.8	2536.5	2527.4	2538.8	2589.0	2469.2
47.5°	2518.2	2500.0	2481.7	2458.9	2424.7	2401.9	2412.1	2421.3	2431.5	2063.0	1882.7
50°	2371.1	2346.0	2317.4	2292.3	2271.8	2269.5	2323.1	2162.2	1810.8	1801.7	1619.1
52.5°	2210.2	2172.5	2155.4	2140.6	2149.7	2183.9	1807.4	1677.3	1608.8	1397.8	1304.2
55°	2036.7	2003.6	2003.6	2017.3	1968.3	1595.2	1575.8	1362.4	1233.5	1196.9	1182.1
57.5°	1863.3	1859.9	1879.3	1718.4	1448.0	1388.6	1167.3	1120.5	1100.0	1095.4	1071.4
60°	1704.7	1736.6	1453.7	1337.3	1162.7	1048.6	1016.7	1011.0	989.3	981.3	959.6
62.5°	1578.0	1308.8	1218.6	995.0	936.8	922.0	904.8	896.8	877.5	774.8	227.1
65°	1139.9	1077.1	874.0	836.4	831.8	810.1	803.3	722.3	170.0	114.1	97.0
67.5°	860.3	763.3	737.1	730.3	708.6	665.2	197.4	113.0	97.0	84.4	74.2
70°	660.7	643.5	624.1	608.2	179.1	111.8	97.0	82.2	70.7	62.8	57.1
72.5°	540.8	529.4	308.1	117.5	95.8	81.0	71.9	62.8	54.8	50.2	45.6
75°	423.3	117.5	97.0	81.0	69.6	59.3	52.5	46.8	42.2	38.8	35.4
77.5°	95.8	77.6	66.2	55.9	50.2	44.5	39.9	34.2	30.8	27.4	22.8
80°	59.3	51.3	43.4	39.9	34.2	28.5	25.1	22.8	18.3	17.1	14.8
82.5°	38.8	30.8	27.4	22.8	18.3	17.1	14.8	11.4	10.3	9.1	8.0
85°	17.1	14.8	12.6	10.3	8.0	6.8	5.7	4.6	4.6	4.6	4.6
87.5°	5.7	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.3	2.3
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: P1213846

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9
2.5°	3843.0	3863.5	3882.9	3877.2	3856.7	3824.7	3815.6	3803.0	3812.2	3831.6	3839.6
5°	3870.4	3859.0	3900.0	3960.5	4058.6	4067.8	4136.2	4152.2	4207.0	4241.2	4240.1
7.5°	3909.2	4071.2	4138.5	4211.5	4244.6	4236.6	4246.9	4238.9	4226.4	4220.7	4213.8
10°	4106.6	4229.8	4254.9	4254.9	4203.5	4133.9	4104.3	4052.9	3950.2	3952.5	3935.4
12.5°	4221.8	4265.2	4205.8	4155.6	3949.1	3869.2	3782.5	3741.4	3717.5	3681.0	3694.6
15°	4161.3	4099.7	4064.3	3902.3	3775.7	3631.9	3634.2	3609.1	3582.8	3585.1	3568.0
17.5°	4072.3	4023.3	3772.2	3660.4	3598.8	3542.9	3532.6	3499.5	3482.4	3476.7	3475.6
20°	3950.2	3773.4	3586.2	3558.9	3484.7	3420.8	3410.5	3420.8	3473.3	3379.7	3062.5
22.5°	3807.6	3553.2	3498.4	3420.8	3370.6	3345.5	3408.2	3123.0	2691.7	2744.2	2688.3
25°	3565.7	3455.0	3361.5	3302.1	3296.4	3142.4	2618.7	2563.9	2286.6	2138.3	1971.7
27.5°	3388.9	3340.9	3242.8	3232.5	3158.4	2569.6	2296.9	1995.7	1885.0	1867.9	1831.3
30°	3281.6	3213.1	3153.8	2894.8	2520.5	2068.7	1842.8	1800.5	1781.1	1760.6	1728.7
32.5°	3152.7	3087.6	3116.1	2433.8	2009.3	1781.1	1735.5	1704.7	1669.3	1655.6	1540.4
35°	3021.4	2991.8	2435.0	2045.9	1727.5	1672.7	1638.5	1606.6	1278.0	309.2	105.0
37.5°	2881.1	2874.2	2188.5	1697.8	1618.0	1566.6	1469.6	303.5	71.9	49.1	36.5
40°	2771.6	2189.6	1729.8	1591.7	1526.7	1445.7	203.1	50.2	31.9	19.4	12.6
42.5°	2698.5	1969.4	1548.4	1493.6	1352.1	149.5	51.3	21.7	12.6	10.3	8.0
45°	2080.1	1555.2	1446.8	1389.8	171.2	51.3	29.7	10.3	8.0	6.8	4.6
47.5°	1919.2	1412.6	1348.7	303.5	57.1	27.4	20.5	6.8	4.6	4.6	4.6
50°	1453.7	1305.3	1073.7	74.2	36.5	19.4	14.8	4.6	4.6	4.6	3.4
52.5°	1274.5	1204.9	115.2	49.1	28.5	14.8	9.1	3.4	3.4	3.4	3.4
55°	1165.0	764.5	68.5	37.7	24.0	13.7	5.7	3.4	3.4	3.4	2.3
57.5°	1065.7	102.7	50.2	31.9	21.7	12.6	3.4	3.4	3.4	3.4	2.3
60°	903.7	74.2	41.1	28.5	20.5	11.4	3.4	3.4	3.4	3.4	3.4
62.5°	117.5	58.2	35.4	25.1	14.8	9.1	2.3	3.4	3.4	3.4	3.4
65°	85.6	45.6	31.9	17.1	9.1	3.4	2.3	3.4	3.4	3.4	3.4
67.5°	66.2	37.7	24.0	14.8	8.0	2.3	2.3	3.4	3.4	3.4	3.4
70°	52.5	31.9	19.4	12.6	6.8	2.3	2.3	3.4	3.4	3.4	3.4
72.5°	41.1	22.8	13.7	6.8	4.6	2.3	2.3	3.4	3.4	3.4	3.4
75°	30.8	18.3	10.3	5.7	2.3	2.3	2.3	3.4	3.4	3.4	3.4
77.5°	20.5	11.4	8.0	4.6	4.6	4.6	5.7	5.7	3.4	3.4	3.4
80°	13.7	8.0	5.7	5.7	5.7	4.6	5.7	5.7	3.4	5.7	3.4
82.5°	6.8	5.7	5.7	4.6	4.6	3.4	4.6	4.6	4.6	4.6	3.4
85°	4.6	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.6	4.6	3.4
87.5°	2.3	2.3	2.3	2.3	3.4	3.4	3.4	3.4	4.6	4.6	3.4
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: P1213846

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9
2.5°	3829.3	3832.7	3823.6	3872.6	3847.5	3849.8	3860.1	3833.9	3839.6	3821.3	3808.7
5°	4244.6	4251.5	4258.3	4260.6	4265.2	4270.9	4264.0	4260.6	4253.8	4230.9	4207.0
7.5°	4179.6	4171.6	4168.2	4172.7	4180.7	4184.1	4178.4	4186.4	4216.1	4228.6	4236.6
10°	3837.3	3800.8	3825.9	3822.4	3793.9	3889.8	3863.5	3878.4	3888.6	3993.6	4057.5
12.5°	3674.1	3696.9	3653.6	3631.9	3660.4	3679.8	3699.2	3658.1	3715.2	3688.9	3773.4
15°	3537.2	3523.5	3518.9	3520.1	3514.4	3541.7	3548.6	3557.7	3565.7	3601.1	3614.8
17.5°	3475.6	3498.4	3507.5	3514.4	3503.0	3490.4	3477.9	3459.6	3465.3	3456.2	3482.4
20°	2849.1	2772.7	2768.1	2812.6	2763.6	2791.0	2857.1	3299.9	3285.0	3457.3	3399.1
22.5°	2377.9	2306.0	2244.4	2190.8	2267.2	2299.2	2422.4	2561.6	2787.5	2752.2	2997.5
25°	1942.0	1915.8	1899.8	1891.8	1897.5	1895.2	1922.6	1987.7	2090.4	2332.3	2644.9
27.5°	1816.5	1804.0	1798.3	1780.0	1793.7	1789.1	1810.8	1824.5	1855.3	1879.3	1980.8
30°	1717.2	1702.4	1692.1	1672.7	1686.4	1687.6	1694.4	1729.8	1742.3	1762.9	1794.8
32.5°	627.6	369.7	346.9	329.8	360.6	470.1	825.0	1442.3	1645.4	1661.3	1697.8
35°	61.6	51.3	45.6	45.6	46.8	51.3	68.5	180.3	329.8	1274.5	1595.2
37.5°	24.0	20.5	17.1	16.0	17.1	19.4	26.2	34.2	46.8	97.0	432.4
40°	10.3	9.1	8.0	8.0	8.0	8.0	9.1	11.4	17.1	31.9	50.2
42.5°	6.8	5.7	5.7	5.7	5.7	5.7	5.7	5.7	8.0	10.3	20.5
45°	4.6	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.6	5.7	9.1
47.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.6
50°	3.4	3.4	3.4	3.4	2.3	3.4	2.3	3.4	3.4	3.4	3.4
52.5°	3.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.4	3.4
55°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.4
57.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
60°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
62.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.4	3.4	2.3
65°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.4	2.3
67.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
70°	3.4	3.4	2.3	3.4	2.3	2.3	3.4	3.4	3.4	2.3	2.3
72.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	6.8	6.8	4.6
75°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	5.7	6.8	5.7
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	5.7	5.7	5.7
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.6	4.6	4.6
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.6	4.6	4.6
85°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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: P1213846

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9
2.5°	3787.1	3785.9	3809.9	3828.1	3821.3	3828.1	3836.1	3837.3	3839.6	3830.4	3827.0
5°	4161.3	4126.0	4057.5	4008.4	3951.4	3847.5	3796.2	3801.9	3803.0	3799.6	3804.2
7.5°	4233.2	4229.8	4205.8	4195.6	4156.8	4082.6	3963.9	3943.4	3893.2	3861.2	3835.0
10°	4052.9	4135.1	4156.8	4193.3	4216.1	4202.4	4102.0	4087.2	4055.2	4018.7	4026.7
12.5°	3857.8	3925.1	3928.6	4127.1	4171.6	4176.2	4137.4	4157.9	4162.5	4080.3	4032.4
15°	3618.2	3650.1	3717.5	3902.3	4037.0	4121.4	4146.5	4157.9	4102.0	4098.6	4079.2
17.5°	3513.2	3533.8	3564.6	3668.4	3872.6	3997.0	4103.1	4095.1	4116.8	4100.9	4051.8
20°	3380.9	3398.0	3452.7	3505.2	3605.6	3771.1	3969.6	3984.5	4013.0	4009.6	4023.3
22.5°	3378.6	3318.1	3327.2	3368.3	3473.3	3621.6	3832.7	3881.8	3900.0	3912.6	3927.4
25°	2680.3	3160.6	3248.5	3274.7	3343.2	3429.9	3678.7	3696.9	3731.2	3787.1	3828.1
27.5°	2322.0	2648.3	2999.8	3182.3	3225.7	3297.6	3445.9	3473.3	3589.7	3603.4	3667.3
30°	1832.5	2084.7	2609.5	3048.8	3120.7	3170.9	3275.9	3330.7	3380.9	3435.6	3503.0
32.5°	1724.1	1764.0	2055.0	2522.8	3081.9	3044.3	3121.9	3154.9	3209.7	3257.6	3306.7
35°	1624.8	1652.2	1713.8	2066.4	2510.3	2940.4	2992.9	3014.6	3045.4	3081.9	3117.3
37.5°	1521.0	1562.1	1604.3	1699.0	2322.0	2858.3	2857.1	2882.2	2900.5	2931.3	2961.0
40°	276.1	1434.3	1502.7	1564.3	1800.5	2279.8	2729.3	2740.7	2753.3	2772.7	2803.5
42.5°	44.5	239.6	1408.0	1467.4	1534.7	2041.3	2671.1	2624.4	2616.4	2630.1	2657.5
45°	22.8	58.2	283.0	1370.4	1430.8	1628.2	2183.9	2543.4	2535.4	2509.1	2514.8
47.5°	17.1	36.5	69.6	473.5	1339.6	1397.8	2015.1	1993.4	2145.1	2436.1	2391.6
50°	14.8	25.1	41.1	97.0	1183.2	1287.1	1551.8	1813.1	1893.0	1903.2	2252.4
52.5°	13.7	17.1	29.7	62.8	248.7	1190.1	1262.0	1353.3	1487.9	1776.6	1769.7
55°	12.6	16.0	25.1	42.2	86.7	1072.6	1146.7	1163.8	1192.4	1330.4	1513.0
57.5°	6.8	14.8	24.0	36.5	65.0	196.3	1040.6	1054.3	1077.1	1082.8	1147.9
60°	3.4	13.7	21.7	31.9	47.9	91.3	935.6	951.6	965.3	967.6	988.1
62.5°	2.3	12.6	18.3	29.7	39.9	65.0	221.4	451.8	859.2	859.2	883.2
65°	2.3	9.1	11.4	19.4	36.5	53.6	93.6	108.4	211.1	519.2	774.8
67.5°	2.3	3.4	10.3	16.0	27.4	41.1	68.5	79.9	95.8	109.5	203.1
70°	2.3	2.3	9.1	10.3	17.1	30.8	49.1	55.9	65.0	74.2	85.6
72.5°	2.3	2.3	8.0	8.0	11.4	20.5	37.7	41.1	46.8	52.5	60.5
75°	5.7	4.6	6.8	6.8	8.0	16.0	28.5	31.9	34.2	38.8	44.5
77.5°	5.7	5.7	5.7	5.7	5.7	10.3	18.3	20.5	24.0	26.2	30.8
80°	4.6	4.6	4.6	5.7	5.7	6.8	11.4	12.6	13.7	17.1	18.3
82.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	6.8	8.0	10.3
85°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.6	4.6	4.6	4.6
87.5°	3.4	3.4	3.4	2.3	2.3	3.4	3.4	3.4	3.4	3.4	3.4
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: P1213846

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9
2.5°	3825.9	3819.0	3813.3	3816.7	3806.5	3801.9	3805.3	3806.5	3808.7	3814.5	3815.6
5°	3815.6	3813.3	3823.6	3829.3	3827.0	3829.3	3829.3	3824.7	3817.9	3822.4	3812.2
7.5°	3808.7	3793.9	3782.5	3784.8	3773.4	3787.1	3799.6	3817.9	3823.6	3823.6	3812.2
10°	3926.3	3910.3	3846.4	3803.0	3774.5	3749.4	3808.7	3748.3	3776.8	3668.4	3792.8
12.5°	4023.3	4044.9	4016.4	3897.7	3877.2	3801.9	3845.3	3771.1	3749.4	3625.0	3665.0
15°	4062.1	4021.0	4011.9	3978.8	3934.3	3912.6	3796.2	3783.6	3748.3	3762.0	3709.5
17.5°	4027.8	4048.4	4021.0	3999.3	3953.7	3902.3	3832.7	3771.1	3722.0	3612.5	3704.9
20°	3994.7	4022.1	3940.0	3953.7	3958.2	3898.9	3862.4	3811.0	3749.4	3646.7	3566.9
22.5°	3940.0	3920.6	3927.4	3906.9	3889.8	3897.7	3847.5	3812.2	3708.3	3661.6	3553.2
25°	3851.0	3844.1	3862.4	3860.1	3819.0	3805.3	3780.2	3742.6	3701.5	3626.2	3537.2
27.5°	3706.1	3741.4	3773.4	3788.2	3766.5	3730.0	3716.3	3694.6	3666.1	3589.7	3523.5
30°	3553.2	3593.1	3629.6	3661.6	3681.0	3665.0	3652.4	3639.9	3596.5	3546.3	3472.1
32.5°	3378.6	3431.1	3481.3	3520.1	3562.3	3574.8	3565.7	3555.4	3518.9	3473.3	3414.0
35°	3176.6	3248.5	3321.5	3391.1	3409.4	3439.1	3468.7	3451.6	3432.2	3386.6	3331.8
37.5°	3005.5	3056.8	3109.3	3197.2	3261.1	3298.7	3351.2	3358.0	3325.0	3303.3	3231.4
40°	2828.6	2875.4	2951.8	3003.2	3091.0	3134.4	3190.3	3215.4	3207.4	3194.9	3132.1
42.5°	2689.4	2712.2	2762.4	2808.1	2894.8	2983.8	3032.9	3060.2	3088.8	3078.5	3046.5
45°	2541.1	2561.6	2578.7	2618.7	2703.1	2781.8	2842.3	2883.4	2934.7	2958.7	2919.9
47.5°	2393.9	2399.6	2420.1	2453.2	2503.4	2563.9	2665.4	2727.1	2775.0	2821.8	2796.7
50°	2280.9	2260.4	2263.8	2284.3	2325.4	2384.7	2457.8	2544.5	2599.3	2656.3	2662.0
52.5°	1993.4	2160.0	2120.0	2131.4	2153.1	2181.6	2258.1	2343.7	2411.0	2460.1	2509.1
55°	1672.7	1705.8	2026.5	1980.8	1994.5	2019.6	2055.0	2140.6	2205.6	2274.1	2342.5
57.5°	1297.3	1543.8	1556.4	1853.0	1846.2	1848.5	1878.1	1927.2	1992.2	2077.8	2136.0
60°	1008.7	1112.5	1314.5	1417.2	1677.3	1686.4	1703.6	1732.1	1788.0	1869.0	1961.4
62.5°	890.0	903.7	975.6	1129.6	1298.5	1502.7	1539.2	1543.8	1568.9	1649.9	1757.2
65°	781.6	790.7	812.4	828.4	969.9	1167.3	1343.0	1371.5	1387.5	1435.4	1526.7
67.5°	538.6	681.2	700.6	712.0	725.7	817.0	1034.9	1179.8	1198.1	1240.3	1320.2
70°	103.8	215.7	589.9	602.5	609.3	629.8	665.2	895.7	1016.7	1056.6	1093.1
72.5°	70.7	83.3	100.4	237.3	502.1	513.5	521.4	551.1	755.4	871.7	891.1
75°	51.3	57.1	67.3	83.3	102.7	334.3	414.2	429.0	443.9	612.7	710.9
77.5°	36.5	41.1	45.6	53.6	62.8	81.0	116.4	320.6	335.5	343.4	484.9
80°	20.5	25.1	30.8	35.4	39.9	45.6	59.3	74.2	165.4	241.9	254.4
82.5°	11.4	13.7	16.0	19.4	21.7	27.4	33.1	39.9	52.5	77.6	164.3
85°	5.7	5.7	5.7	8.0	9.1	12.6	14.8	17.1	24.0	33.1	45.6
87.5°	3.4	3.4	4.6	4.6	4.6	5.7	5.7	5.7	6.8	10.3	14.8
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: P1213846

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	3801.9	3801.9	3801.9	3801.9	3801.9
2.5°	3816.7	3813.3	3813.3	3827.0	3823.6
5°	3809.9	3806.5	3805.3	3820.2	3813.3
7.5°	3804.2	3791.6	3788.2	3801.9	3796.2
10°	3781.4	3772.2	3777.9	3773.4	3771.1
12.5°	3742.6	3736.9	3712.9	3715.2	3734.6
15°	3673.0	3695.8	3654.7	3691.2	3699.2
17.5°	3545.2	3596.5	3636.5	3658.1	3661.6
20°	3602.2	3619.3	3598.8	3599.9	3613.6
22.5°	3528.1	3536.0	3541.7	3534.9	3564.6
25°	3409.4	3378.6	3444.8	3458.5	3506.4
27.5°	3372.9	3347.8	3378.6	3376.3	3416.2
30°	3343.2	3262.2	3275.9	3297.6	3346.6
32.5°	3301.0	3173.2	3159.5	3207.4	3262.2
35°	3226.8	3105.9	3073.9	3104.7	3186.9
37.5°	3164.1	3012.3	2948.4	2989.5	3096.7
40°	3070.5	2939.3	2840.0	2876.5	3003.2
42.5°	2958.7	2876.5	2723.6	2748.7	2893.6
45°	2845.7	2772.7	2610.7	2623.2	2795.5
47.5°	2730.5	2663.2	2493.1	2495.4	2670.0
50°	2617.5	2528.5	2388.2	2348.2	2536.5
52.5°	2470.3	2388.2	2282.1	2217.0	2409.9
55°	2331.1	2238.7	2161.1	2060.7	2266.1
57.5°	2195.3	2092.6	2040.2	1911.2	2102.9
60°	2009.3	1960.3	1882.7	1759.5	1955.7
62.5°	1818.8	1802.8	1724.1	1596.3	1774.3
65°	1596.3	1634.0	1552.9	1443.4	1586.0
67.5°	1386.3	1453.7	1364.7	1297.3	1404.6
70°	1162.7	1240.3	1190.1	1166.1	1211.8
72.5°	942.5	1017.8	1022.4	1005.2	1020.1
75°	728.0	811.3	856.9	830.7	834.1
77.5°	552.3	592.2	642.4	662.9	658.4
80°	341.2	410.8	451.8	494.1	479.2
82.5°	172.3	230.5	280.7	326.3	304.7
85°	71.9	92.4	128.9	170.0	163.2
87.5°	21.7	36.5	38.8	54.8	51.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)