

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: P1213495

Luminaire Tested: 4SNLED-LD5-62SL-RM-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213495
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-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

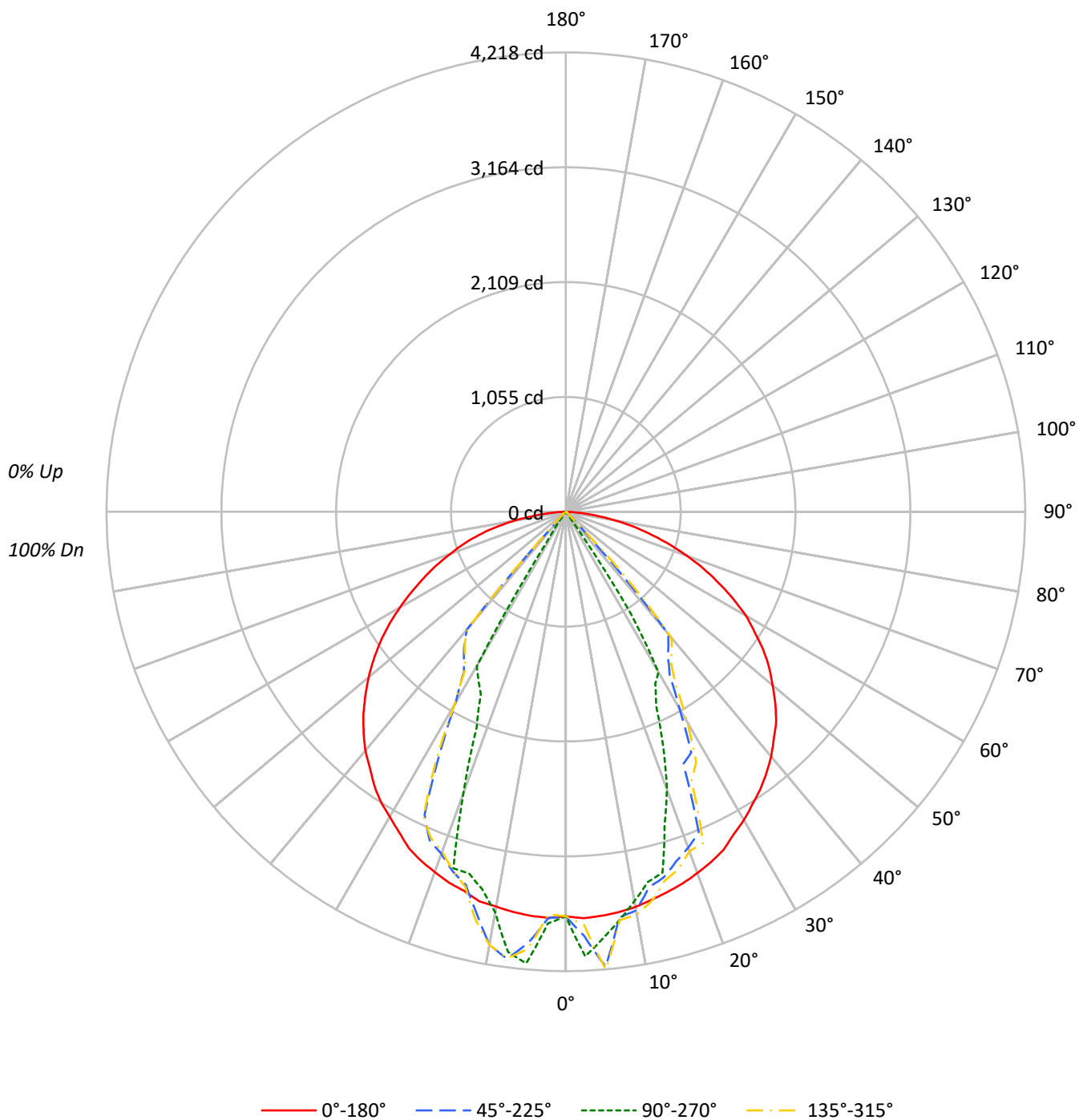
Lumens per Lamp: N/A
Luminaire Lumens: 5280.9 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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			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°	30013	30013	30013	30013
5°	30135	30868	30126	32689
10°	30063	27932	30045	28739
15°	29981	26072	29908	26139
20°	30016	20535	29930	20788
25°	30103	14861	29956	14024
30°	29966	13036	29649	12532
35°	30054	287	29613	348
40°	30157	63	29435	63
45°	30264	37	29127	27
50°	30033	29	28655	29
55°	29856	20	28022	20
60°	29292	22	27001	22
65°	27766	35	25787	23
70°	25758	38	24520	38
75°	22783	43	23158	43
80°	18508	49	19564	49
85°	10890	58	11115	58

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 32677 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.6	7.1
10°-20°	1016.4	19.2
20°-30°	1293.3	24.5
30°-40°	1092.5	20.7
40°-50°	714.2	13.5
50°-60°	450.0	8.5
60°-70°	239.5	4.5
70°-80°	87.3	1.7
80°-90°	15.0	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°	2682.3	50.8
0°-40°	3774.8	71.5
0°-60°	4939.1	93.5
0°-90°	5280.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5280.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3714	3714	3714	3714	3714	
5°	3725	3930	3724	4162	3725	354
15°	3614	3430	3605	3439	3614	1022
25°	3425	1958	3409	1848	3425	1575
35°	3113	37	3068	45	3113	1948
45°	2731	4	2628	3	2731	2100
55°	2214	2	2078	2	2214	1972
65°	1549	3	1439	2	1549	1534
75°	815	3	828	3	815	865
85°	159	3	163	3	159	202
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°	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0
2.5°	3735.2	3737.4	3738.5	3740.7	3744.1	3745.2	3747.4	3745.2	3745.2	3745.2	3745.2
5°	3725.1	3729.6	3732.9	3737.4	3745.2	3746.3	3755.2	3756.4	3760.8	3769.7	3776.4
7.5°	3708.4	3712.9	3719.6	3730.7	3741.9	3754.1	3769.7	3786.4	3809.9	3832.1	3860.0
10°	3683.9	3689.5	3697.3	3707.3	3761.9	3769.7	3804.3	3852.2	3865.6	3935.8	3988.2
12.5°	3648.2	3667.2	3687.2	3696.2	3748.5	3831.0	3947.0	3923.5	3897.9	4127.5	4124.2
15°	3613.7	3639.3	3629.3	3701.7	3749.7	3893.5	3844.4	3949.2	4140.9	4094.1	4096.3
17.5°	3576.9	3582.5	3638.2	3698.4	3784.2	3857.8	3918.0	4061.8	4099.7	4103.0	4061.8
20°	3530.1	3556.8	3638.2	3692.8	3837.7	3872.3	4002.7	4076.3	4060.6	4022.8	3952.5
22.5°	3482.1	3563.5	3646.0	3722.9	3824.3	3916.9	3981.5	4016.1	3934.7	3785.3	3705.1
25°	3425.3	3473.2	3581.4	3693.9	3821.0	3874.5	3912.4	3856.7	3750.8	3617.0	3482.1
27.5°	3337.2	3414.2	3552.4	3679.4	3794.2	3858.9	3797.6	3663.8	3493.3	3405.2	3343.9
30°	3269.3	3369.6	3483.3	3605.9	3725.1	3763.0	3607.0	3454.3	3337.2	3249.2	3235.8
32.5°	3186.8	3329.4	3437.6	3554.6	3654.9	3604.8	3453.2	3255.9	3158.9	3125.5	3138.8
35°	3113.2	3221.3	3362.9	3477.7	3550.1	3437.6	3197.9	3075.3	3028.5	3047.4	3022.9
37.5°	3025.1	3167.8	3298.2	3397.4	3372.9	3203.5	3000.6	2922.6	2928.2	2912.6	2865.8
40°	2933.7	3069.7	3205.7	3299.3	3213.5	2954.9	2820.0	2803.3	2806.7	2756.5	2689.6
42.5°	2826.7	2950.5	3086.4	3171.2	2986.1	2784.4	2693.0	2695.2	2666.2	2596.0	2560.3
45°	2730.9	2844.6	2986.1	2993.9	2766.5	2598.2	2571.5	2542.5	2477.9	2454.4	2427.7
47.5°	2608.3	2734.2	2851.3	2808.9	2551.4	2446.6	2426.6	2363.0	2330.7	2312.9	2290.6
50°	2477.9	2604.9	2711.9	2591.5	2348.6	2324.0	2258.3	2208.1	2185.8	2166.9	2146.8
52.5°	2354.1	2458.9	2568.1	2360.8	2192.5	2169.1	2094.4	2065.4	2043.1	2022.0	2017.5
55°	2213.7	2306.2	2380.9	2141.2	2043.1	1988.5	1935.0	1915.0	1893.8	1883.7	1900.5
57.5°	2054.3	2159.1	2147.9	1925.0	1881.5	1802.4	1782.3	1768.9	1753.3	1760.0	1620.7
60°	1910.5	1990.8	1936.1	1766.7	1693.1	1639.6	1621.8	1612.9	1621.8	1485.8	1306.4
62.5°	1733.3	1823.6	1713.2	1581.7	1503.7	1478.0	1462.4	1474.7	1344.3	1194.9	1151.4
65°	1549.4	1647.4	1484.7	1383.3	1334.2	1311.9	1310.8	1207.2	1079.0	1021.0	1021.0
67.5°	1372.1	1473.6	1264.0	1179.3	1160.3	1162.6	1097.9	940.8	905.1	866.1	753.5
70°	1183.8	1272.9	1044.4	993.1	982.0	974.2	817.0	774.7	732.3	628.7	619.7
72.5°	996.5	1040.0	839.3	827.1	824.8	685.5	654.3	581.8	532.8	520.5	515.0
75°	814.8	801.4	663.2	674.4	568.5	519.4	469.3	426.9	420.2	415.8	103.7
77.5°	643.1	576.3	522.8	454.8	406.8	345.5	335.5	328.8	216.2	78.0	63.5
80°	468.2	373.4	347.8	295.4	251.9	241.9	247.5	75.8	60.2	50.2	43.5
82.5°	297.6	238.5	195.1	170.5	166.1	72.5	53.5	43.5	37.9	32.3	26.8
85°	159.4	105.9	98.1	82.5	49.0	33.4	27.9	21.2	17.8	14.5	13.4
87.5°	50.2	42.4	34.6	27.9	16.7	11.1	8.9	7.8	6.7	5.6	5.6
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°	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0
2.5°	3743.0	3745.2	3744.1	3747.4	3747.4	3751.9	3755.2	3758.6	3765.3	3768.6	3794.2
5°	3790.9	3796.5	3813.2	3828.8	3847.8	3853.3	3885.6	3893.5	3931.3	3935.8	4060.6
7.5°	3897.9	3919.1	3959.2	3999.3	4039.5	4065.1	4109.7	4137.6	4167.7	4194.4	4293.6
10°	4027.2	4062.9	4101.9	4142.0	4165.4	4214.5	4241.2	4245.7	4237.9	4194.4	4033.9
12.5°	4154.3	4189.9	4173.2	4181.0	4208.9	4122.0	4134.2	4071.8	4115.3	3900.1	3740.7
15°	4136.4	4134.2	4093.0	3959.2	3981.5	3815.4	3748.5	3697.3	3738.5	3716.2	3691.7
17.5°	4082.9	3981.5	3910.2	3749.7	3681.7	3634.9	3636.0	3637.1	3617.0	3638.2	3575.8
20°	3856.7	3743.0	3637.1	3580.2	3560.2	3526.7	3543.5	3526.7	3527.8	3534.5	3438.7
22.5°	3555.7	3521.2	3459.9	3477.7	3471.0	3501.1	3478.8	3444.3	3455.4	3405.2	3332.8
25°	3434.2	3394.1	3391.9	3398.5	3388.5	3375.1	3355.1	3302.7	3299.3	3283.7	3250.3
27.5°	3311.6	3313.8	3320.5	3300.5	3264.8	3238.0	3207.9	3182.3	3192.3	3174.5	3128.8
30°	3226.9	3225.8	3185.7	3167.8	3102.1	3103.2	3095.4	3079.8	3069.7	3070.8	3041.9
32.5°	3106.5	3072.0	3026.3	3004.0	2998.4	2978.3	2962.7	2966.1	2973.9	2946.0	2976.1
35°	2982.8	2911.5	2904.8	2885.8	2868.0	2854.6	2860.2	2837.9	2836.8	2833.4	2588.2
37.5°	2816.7	2782.2	2778.8	2758.7	2746.5	2743.1	2722.0	2725.3	2735.3	2753.2	2207.0
40°	2679.6	2648.4	2640.6	2639.5	2612.7	2610.5	2616.1	2637.2	2651.7	2540.3	2103.3
42.5°	2532.5	2534.7	2510.2	2494.6	2497.9	2507.9	2534.7	2461.1	2132.3	2032.0	1922.8
45°	2406.5	2395.4	2382.0	2377.5	2406.5	2386.5	2092.2	1930.6	1891.6	1887.1	1580.6
47.5°	2275.0	2271.6	2266.1	2269.4	2104.4	1875.9	1809.1	1787.9	1794.6	1790.1	1357.6
50°	2142.3	2146.8	2146.8	1874.8	1721.0	1683.1	1688.7	1707.6	1589.5	1483.6	1265.1
52.5°	2027.5	1993.0	1707.6	1609.5	1575.0	1591.7	1551.6	1403.3	1296.3	1233.9	1170.4
55°	1814.6	1560.5	1497.0	1481.4	1493.6	1345.4	1254.0	1158.1	1130.2	1123.6	1086.8
57.5°	1427.9	1376.6	1382.2	1319.7	1178.2	1094.6	1057.8	1044.4	1032.2	1023.2	89.2
60°	1262.9	1277.4	1169.3	1035.5	978.7	967.5	958.6	946.3	944.1	928.5	56.8
62.5°	1155.9	1016.6	922.9	889.5	876.1	872.8	856.0	850.5	722.3	99.2	42.4
65°	871.7	814.8	797.0	789.2	774.7	774.7	643.1	101.4	82.5	71.3	37.9
67.5°	711.1	706.7	697.8	687.7	468.2	98.1	85.8	74.7	64.6	56.8	33.4
70°	601.9	599.7	546.2	100.3	83.6	73.6	64.6	58.0	53.5	47.9	30.1
72.5°	493.8	100.3	84.7	73.6	63.5	58.0	52.4	46.8	42.4	39.0	24.5
75°	76.9	68.0	60.2	54.6	50.2	44.6	40.1	36.8	35.7	31.2	16.7
77.5°	55.7	47.9	43.5	39.0	34.6	31.2	26.8	23.4	21.2	17.8	12.3
80°	39.0	34.6	31.2	25.6	22.3	18.9	16.7	14.5	13.4	11.1	5.6
82.5°	22.3	18.9	16.7	13.4	12.3	10.0	8.9	7.8	7.8	5.6	5.6
85°	10.0	10.0	7.8	6.7	5.6	5.6	5.6	4.5	4.5	3.3	3.3
87.5°	4.5	4.5	4.5	4.5	4.5	3.3	3.3	3.3	3.3	3.3	2.2
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°	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0
2.5°	3829.9	3844.4	3872.3	3901.3	3868.9	3984.9	3975.9	4014.9	4036.1	4046.2	4069.6
5°	4171.0	4235.6	4256.8	4193.3	4156.5	4118.6	4032.8	3968.1	3975.9	3954.8	3877.8
7.5°	4164.3	4026.1	3839.9	3755.2	3748.5	3738.5	3765.3	3780.9	3783.1	3782.0	3779.8
10°	3812.1	3740.7	3728.5	3717.3	3721.8	3680.6	3661.6	3608.1	3637.1	3621.5	3627.1
12.5°	3705.1	3688.4	3622.6	3531.2	3585.8	3544.6	3521.2	3536.8	3518.9	3502.2	3496.6
15°	3641.5	3533.4	3496.6	3474.3	3458.7	3449.8	3457.6	3439.8	3434.2	3430.9	3438.7
17.5°	3510.0	3466.5	3426.4	3367.3	3368.5	3365.1	3387.4	3420.8	3423.1	3251.4	3096.5
20°	3406.4	3370.7	3319.4	3282.6	3332.8	3243.6	2899.2	2735.3	2709.7	2709.7	2714.2
22.5°	3323.9	3244.7	3248.1	3190.1	2720.8	2625.0	2627.2	2637.2	2591.5	2435.5	2418.8
25°	3211.3	3199.0	2954.9	2553.6	2557.0	2482.3	2367.5	2205.9	2030.9	2030.9	2001.9
27.5°	3126.6	2866.9	2510.2	2493.5	2242.7	2084.4	1986.3	1838.0	1818.0	1799.0	1801.3
30°	3054.1	2425.5	2434.4	2084.4	1899.4	1767.8	1760.0	1735.5	1723.2	1719.9	1707.6
32.5°	2414.3	2361.9	2037.6	1774.5	1702.1	1680.9	1670.9	1643.0	1641.9	1620.7	1473.6
35°	2263.8	2073.2	1705.4	1634.1	1612.9	1592.8	1576.1	1057.8	124.8	50.2	43.5
37.5°	2092.2	1732.2	1577.2	1544.9	1524.8	1126.9	112.6	39.0	27.9	20.1	17.8
40°	1773.4	1547.1	1498.1	1462.4	603.0	39.0	24.5	18.9	11.1	10.0	8.9
42.5°	1495.9	1458.0	1405.6	428.0	44.6	18.9	12.3	8.9	7.8	7.8	6.7
45°	1400.0	1366.6	566.2	42.4	27.9	8.9	7.8	7.8	6.7	4.5	4.5
47.5°	1310.8	1153.7	51.3	26.8	17.8	7.8	6.7	4.5	4.5	4.5	3.3
50°	1216.1	63.5	35.7	20.1	11.1	4.5	4.5	4.5	4.5	3.3	3.3
52.5°	227.4	44.6	29.0	17.8	5.6	4.5	4.5	4.5	3.3	3.3	3.3
55°	53.5	35.7	26.8	15.6	4.5	4.5	4.5	3.3	3.3	3.3	2.2
57.5°	40.1	26.8	21.2	14.5	4.5	3.3	3.3	3.3	3.3	3.3	2.2
60°	33.4	18.9	16.7	13.4	3.3	3.3	3.3	3.3	3.3	3.3	2.2
62.5°	23.4	15.6	12.3	10.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3
65°	18.9	12.3	10.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
67.5°	16.7	10.0	6.7	2.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3
70°	13.4	3.3	3.3	2.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3
72.5°	11.1	3.3	2.2	2.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3
75°	11.1	5.6	2.2	2.2	3.3	3.3	4.5	4.5	3.3	3.3	3.3
77.5°	7.8	5.6	2.2	2.2	3.3	3.3	4.5	4.5	3.3	3.3	3.3
80°	4.5	5.6	2.2	3.3	3.3	6.7	7.8	4.5	3.3	3.3	3.3
82.5°	4.5	5.6	6.7	6.7	3.3	5.6	6.7	5.6	4.5	3.3	3.3
85°	4.5	3.3	4.5	5.6	3.3	5.6	5.6	4.5	4.5	3.3	3.3
87.5°	2.2	3.3	3.3	4.5	4.5	4.5	5.6	4.5	4.5	4.5	3.3
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: P1213495

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0
2.5°	4080.7	4085.2	4014.9	3990.4	4011.6	4007.1	3988.2	3918.0	3910.2	3863.4	3795.4
5°	3900.1	3930.2	3893.5	3957.0	3926.9	3957.0	4048.4	4090.7	4159.9	4202.2	4217.8
7.5°	3774.2	3780.9	3780.9	3786.4	3792.0	3793.1	3786.4	3782.0	3763.0	3739.6	3782.0
10°	3621.5	3629.3	3642.7	3640.4	3639.3	3662.7	3668.3	3716.2	3714.0	3722.9	3755.2
12.5°	3542.3	3482.1	3536.8	3522.3	3542.3	3511.1	3569.1	3559.1	3562.4	3589.2	3658.3
15°	3410.8	3429.8	3443.1	3443.1	3450.9	3444.3	3437.6	3483.3	3511.1	3512.2	3507.8
17.5°	3157.8	3014.0	3161.1	3123.2	3425.3	3433.1	3407.5	3386.3	3386.3	3403.0	3438.7
20°	2710.8	2714.2	2715.3	2729.8	2747.6	2746.5	2747.6	3186.8	3395.2	3347.3	3315.0
22.5°	2376.4	2335.2	2412.1	2406.5	2502.4	2608.3	2709.7	2699.7	2706.4	3016.2	3294.9
25°	1904.9	1958.4	1915.0	1933.9	2042.0	2168.0	2246.0	2450.0	2671.8	2656.2	2728.6
27.5°	1793.5	1779.0	1799.0	1799.0	1813.5	1830.2	1873.7	1988.5	2185.8	2393.1	2589.3
30°	1687.6	1699.8	1702.1	1722.1	1733.3	1744.4	1751.1	1794.6	1839.2	1983.0	2224.8
32.5°	1267.4	1111.3	1462.4	1557.2	1637.4	1656.4	1669.7	1687.6	1719.9	1741.1	1862.6
35°	36.8	36.8	39.0	44.6	56.8	383.4	1460.2	1609.5	1630.7	1657.5	1679.8
37.5°	17.8	13.4	15.6	16.7	20.1	27.9	40.1	124.8	1390.0	1571.6	1596.2
40°	7.8	7.8	7.8	7.8	8.9	11.1	16.7	27.9	42.4	1118.0	1508.1
42.5°	6.7	6.7	6.7	6.7	6.7	6.7	7.8	10.0	20.1	47.9	791.4
45°	4.5	4.5	3.3	4.5	4.5	5.6	6.7	6.7	8.9	30.1	54.6
47.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	5.6	6.7	20.1	29.0
50°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	15.6	20.1
52.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	6.7	17.8
55°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.3	3.3	4.5	15.6
57.5°	2.2	2.2	2.2	2.2	2.2	3.3	2.2	2.2	3.3	3.3	14.5
60°	2.2	2.2	2.2	2.2	2.2	3.3	3.3	3.3	3.3	3.3	13.4
62.5°	3.3	3.3	2.2	3.3	2.2	2.2	3.3	3.3	3.3	3.3	8.9
65°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.2	3.3
67.5°	3.3	3.3	3.3	3.3	2.2	3.3	2.2	3.3	3.3	2.2	2.2
70°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.2	2.2	2.2	2.2
72.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.2	2.2	2.2	2.2
75°	3.3	3.3	3.3	3.3	3.3	3.3	4.5	4.5	2.2	2.2	2.2
77.5°	3.3	3.3	3.3	3.3	3.3	3.3	5.6	6.7	5.6	5.6	2.2
80°	3.3	3.3	3.3	3.3	3.3	3.3	5.6	5.6	5.6	5.6	7.8
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	4.5	4.5	4.5	4.5	5.6
85°	3.3	3.3	3.3	3.3	3.3	3.3	4.5	4.5	4.5	3.3	4.5
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.5	3.3	3.3	3.3
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: P1213495

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0
2.5°	3800.9	3763.0	3750.8	3725.1	3722.9	3725.1	3719.6	3711.8	3716.2	3708.4	3701.7
5°	4226.7	4125.3	4059.5	3971.5	3850.0	3823.2	3816.5	3778.6	3765.3	3760.8	3743.0
7.5°	3882.3	4067.3	4178.8	4216.7	4074.0	4040.6	4001.6	3970.4	3940.3	3883.4	3848.9
10°	3729.6	3738.5	3845.5	3970.4	4173.2	4201.1	4222.3	4154.3	4135.3	3990.4	3959.2
12.5°	3693.9	3695.0	3707.3	3783.1	3942.5	3960.3	4035.0	4075.1	4124.2	4152.0	4129.8
15°	3531.2	3621.5	3688.4	3695.0	3709.5	3740.7	3763.0	3902.4	3961.4	4119.7	4110.8
17.5°	3455.4	3484.4	3581.4	3660.5	3647.1	3636.0	3653.8	3672.8	3729.6	3887.9	3885.6
20°	3329.4	3422.0	3474.3	3556.8	3631.5	3634.9	3614.8	3603.6	3581.4	3607.0	3630.4
22.5°	3275.9	3290.4	3388.5	3446.5	3531.2	3561.3	3565.7	3566.9	3554.6	3541.2	3534.5
25°	3270.4	3224.7	3274.8	3347.3	3409.7	3442.0	3478.8	3491.1	3486.6	3486.6	3479.9
27.5°	2676.3	3210.2	3183.4	3231.4	3307.1	3329.4	3348.4	3386.3	3409.7	3426.4	3434.2
30°	2549.2	2645.1	3112.1	3118.8	3195.7	3193.5	3214.6	3245.8	3275.9	3315.0	3325.0
32.5°	2254.9	2490.1	2849.0	3006.2	3086.4	3094.3	3105.4	3114.3	3142.2	3185.7	3223.6
35°	1806.8	2268.3	2441.1	2952.7	2967.2	2982.8	2989.5	3010.7	3019.6	3037.4	3070.8
37.5°	1635.2	1874.8	2341.9	2553.6	2830.1	2843.5	2879.1	2888.0	2902.5	2917.0	2942.7
40°	1536.0	1601.7	1949.5	2280.6	2719.7	2728.6	2740.9	2763.2	2764.3	2781.0	2804.4
42.5°	1456.8	1499.2	1600.6	2178.0	2641.7	2640.6	2611.6	2626.1	2632.8	2650.6	2682.9
45°	1163.7	1406.7	1471.3	1779.0	2103.3	2254.9	2545.8	2497.9	2496.8	2503.5	2538.0
47.5°	59.1	1323.1	1368.8	1468.0	1986.3	1991.9	2029.8	2348.6	2397.6	2382.0	2385.3
50°	40.1	91.4	1275.2	1320.9	1712.1	1850.3	1878.2	1892.7	2076.6	2281.7	2248.2
52.5°	31.2	52.4	781.4	1226.1	1391.1	1492.5	1672.0	1774.5	1785.7	1868.1	2147.9
55°	27.9	40.1	84.7	1131.4	1182.6	1204.9	1309.7	1489.2	1634.1	1677.5	1680.9
57.5°	24.5	36.8	58.0	511.6	1075.6	1080.1	1097.9	1160.3	1290.8	1410.0	1544.9
60°	22.3	32.3	45.7	88.1	977.5	988.7	992.0	1008.8	1024.4	1105.7	1260.7
62.5°	13.4	25.6	40.1	63.5	773.6	888.4	887.3	898.4	912.9	921.8	953.0
65°	11.1	20.1	34.6	53.5	94.7	118.2	717.8	798.1	807.0	819.3	824.8
67.5°	10.0	17.8	25.6	42.4	71.3	81.4	93.6	115.9	633.1	713.4	724.5
70°	8.9	12.3	21.2	35.7	58.0	62.4	70.2	80.3	94.7	117.0	572.9
72.5°	5.6	8.9	14.5	25.6	44.6	50.2	54.6	61.3	68.0	81.4	93.6
75°	2.2	6.7	12.3	18.9	34.6	37.9	41.2	45.7	51.3	60.2	66.9
77.5°	2.2	5.6	10.0	13.4	22.3	25.6	30.1	33.4	37.9	42.4	49.0
80°	7.8	4.5	6.7	10.0	15.6	16.7	18.9	21.2	24.5	27.9	32.3
82.5°	5.6	6.7	7.8	6.7	7.8	10.0	11.1	13.4	14.5	16.7	17.8
85°	4.5	4.5	5.6	5.6	5.6	5.6	5.6	5.6	6.7	7.8	10.0
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.5	4.5
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: P1213495

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0
2.5°	3701.7	3699.5	3692.8	3692.8	3691.7	3696.2	3699.5	3702.8	3701.7	3708.4	3701.7
5°	3729.6	3724.0	3714.0	3705.1	3701.7	3704.0	3700.6	3704.0	3699.5	3705.1	3695.0
7.5°	3806.5	3787.6	3748.5	3732.9	3712.9	3711.8	3701.7	3699.5	3692.8	3692.8	3680.6
10°	3942.5	3851.1	3839.9	3793.1	3776.4	3695.0	3712.9	3682.8	3679.4	3664.9	3659.4
12.5°	4054.0	3982.6	3961.4	3920.2	3873.4	3708.4	3745.2	3680.6	3677.2	3648.2	3618.1
15°	4056.2	4097.4	4039.5	3925.8	3915.7	3802.1	3727.4	3705.1	3676.1	3589.2	3603.6
17.5°	3925.8	4020.5	4048.4	4023.9	3952.5	3875.6	3770.8	3726.3	3639.3	3600.3	3573.5
20°	3714.0	3809.9	3929.1	3936.9	3981.5	3926.9	3789.8	3717.3	3612.6	3544.6	3522.3
22.5°	3545.7	3615.9	3753.0	3816.5	3871.2	3890.1	3803.2	3696.2	3565.7	3500.0	3486.6
25°	3456.5	3472.1	3513.4	3588.0	3708.4	3795.4	3807.6	3693.9	3625.9	3482.1	3406.4
27.5°	3424.2	3410.8	3394.1	3432.0	3522.3	3628.2	3698.4	3717.3	3547.9	3410.8	3335.0
30°	3341.7	3349.5	3323.9	3310.5	3369.6	3478.8	3603.6	3634.9	3504.4	3362.9	3275.9
32.5°	3240.3	3253.6	3258.1	3234.7	3222.4	3298.2	3433.1	3507.8	3501.1	3294.9	3197.9
35°	3113.2	3151.1	3161.1	3162.2	3142.2	3129.9	3207.9	3362.9	3422.0	3263.7	3123.2
37.5°	2979.4	2990.6	3045.2	3059.7	3059.7	3022.9	3080.9	3204.6	3287.1	3193.5	3031.8
40°	2812.2	2847.9	2899.2	2924.8	2950.5	2953.8	2921.5	3008.4	3144.4	3121.0	2946.0
42.5°	2690.8	2714.2	2745.4	2779.9	2832.3	2845.7	2812.2	2827.9	2969.4	3030.7	2834.5
45°	2549.2	2580.4	2589.3	2627.2	2681.8	2720.8	2719.7	2687.4	2801.1	2876.9	2753.2
47.5°	2404.3	2434.4	2450.0	2468.9	2509.1	2559.2	2587.1	2572.6	2594.9	2743.1	2645.1
50°	2254.9	2271.6	2302.9	2324.0	2350.8	2379.8	2446.6	2460.0	2428.8	2547.0	2525.8
52.5°	2113.4	2118.9	2140.1	2161.3	2197.0	2218.1	2271.6	2311.8	2309.5	2344.1	2393.1
55°	2003.0	1978.5	1983.0	1999.7	2023.1	2055.4	2085.5	2147.9	2169.1	2175.8	2253.8
57.5°	1565.0	1816.9	1839.2	1838.0	1865.9	1880.4	1908.3	1949.5	2025.3	2008.6	2095.5
60°	1422.3	1450.2	1660.8	1685.3	1695.4	1708.7	1742.2	1780.1	1835.8	1871.5	1909.4
62.5°	1084.5	1254.0	1317.5	1503.7	1532.6	1540.4	1562.7	1580.6	1638.5	1719.9	1704.3
65°	839.3	911.8	1105.7	1181.5	1339.8	1359.9	1391.1	1410.0	1426.7	1520.4	1524.8
67.5°	725.6	736.8	789.2	935.2	1035.5	1190.4	1209.4	1226.1	1251.7	1318.6	1359.9
70°	619.7	633.1	647.6	659.9	790.3	892.8	1036.6	1042.2	1058.9	1103.5	1197.1
72.5°	117.0	529.5	538.4	546.2	560.7	628.7	765.8	877.2	883.9	905.1	990.9
75°	79.1	92.5	127.1	436.9	451.4	455.9	479.3	618.6	721.2	725.6	763.5
77.5°	56.8	63.5	76.9	91.4	233.0	350.0	355.6	381.2	487.1	564.0	570.7
80°	39.0	43.5	51.3	58.0	71.3	93.6	258.6	266.4	279.8	385.7	405.7
82.5°	22.3	25.6	30.1	36.8	42.4	53.5	69.1	89.2	181.7	193.9	257.5
85°	11.1	12.3	14.5	17.8	21.2	25.6	34.6	42.4	58.0	104.8	108.1
87.5°	5.6	5.6	5.6	5.6	8.9	10.0	12.3	15.6	20.1	30.1	39.0
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: P1213495

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0
2.5°	3702.8	3718.5	3731.8	3735.2	3735.2	3737.4	3740.7	3743.0	3745.2	3747.4	3745.2
5°	3696.2	3712.9	3724.0	3727.4	3727.4	3734.1	3739.6	3746.3	3749.7	3749.7	3747.4
7.5°	3679.4	3691.7	3706.2	3715.1	3716.2	3727.4	3737.4	3736.3	3740.7	3743.0	3748.5
10°	3657.1	3657.1	3681.7	3688.4	3693.9	3706.2	3709.5	3716.2	3731.8	3734.1	3748.5
12.5°	3646.0	3634.9	3663.8	3667.2	3686.1	3670.5	3690.6	3697.3	3681.7	3702.8	3675.0
15°	3595.8	3609.2	3604.8	3614.8	3648.2	3630.4	3685.0	3667.2	3707.3	3659.4	3744.1
17.5°	3554.6	3552.4	3570.2	3579.1	3585.8	3623.7	3638.2	3658.3	3673.9	3660.5	3693.9
20°	3524.5	3506.7	3520.0	3530.1	3553.5	3582.5	3591.4	3561.3	3613.7	3702.8	3724.0
22.5°	3467.7	3455.4	3471.0	3471.0	3506.7	3502.2	3535.7	3516.7	3565.7	3669.4	3777.5
25°	3390.7	3391.9	3408.6	3428.6	3435.3	3485.5	3503.3	3527.8	3589.2	3712.9	3778.6
27.5°	3312.7	3306.0	3316.1	3357.3	3391.9	3428.6	3434.2	3517.8	3601.4	3686.1	3744.1
30°	3234.7	3228.0	3234.7	3264.8	3306.0	3330.6	3391.9	3503.3	3581.4	3639.3	3693.9
32.5°	3151.1	3144.4	3160.0	3182.3	3254.8	3258.1	3379.6	3484.4	3545.7	3588.0	3578.0
35°	3061.9	3053.0	3067.5	3102.1	3168.9	3193.5	3320.5	3398.5	3467.7	3487.7	3440.9
37.5°	2954.9	2939.3	2957.2	3005.1	3075.3	3146.6	3252.5	3342.8	3379.6	3326.1	3270.4
40°	2843.5	2832.3	2863.5	2888.0	2970.5	3069.7	3191.2	3254.8	3231.4	3170.0	3108.7
42.5°	2744.3	2720.8	2748.7	2795.5	2889.2	3001.7	3099.8	3135.5	3079.8	2989.5	2918.1
45°	2622.8	2594.9	2628.3	2690.8	2791.1	2919.3	2996.2	2983.9	2889.2	2811.1	2713.0
47.5°	2495.7	2462.2	2495.7	2570.4	2682.9	2818.9	2874.7	2818.9	2699.7	2601.6	2522.4
50°	2370.8	2331.8	2364.2	2476.7	2587.1	2691.9	2690.8	2582.6	2511.3	2404.3	2335.2
52.5°	2247.1	2191.4	2223.7	2346.3	2456.7	2575.9	2487.9	2387.6	2301.7	2208.1	2185.8
55°	2094.4	2034.2	2077.7	2256.0	2340.8	2411.0	2270.5	2182.5	2097.8	2050.9	2023.1
57.5°	1949.5	1883.7	1921.6	2132.3	2194.7	2212.6	2083.3	1958.4	1908.3	1892.7	1852.5
60°	1800.2	1725.5	1761.1	2004.1	2047.6	1975.1	1848.1	1751.1	1741.1	1709.9	1678.7
62.5°	1657.5	1575.0	1597.3	1844.7	1864.8	1733.3	1616.2	1590.6	1566.1	1534.9	1518.1
65°	1493.6	1407.8	1439.0	1675.3	1656.4	1486.9	1421.2	1415.6	1383.3	1357.6	1382.2
67.5°	1343.1	1241.7	1285.2	1490.3	1404.5	1266.2	1239.5	1226.1	1200.5	1215.0	957.5
70°	1178.2	1067.8	1126.9	1290.8	1163.7	1072.3	1062.3	1042.2	1043.3	829.3	698.9
72.5°	994.3	898.4	984.2	1072.3	920.7	893.9	879.5	877.2	707.8	575.2	542.8
75°	832.6	735.7	828.2	861.6	733.4	715.6	714.5	590.8	464.8	443.6	433.6
77.5°	649.8	575.2	663.2	613.1	562.9	542.8	487.1	365.6	350.0	335.5	126.0
80°	438.1	443.6	494.9	422.5	401.3	342.2	269.7	258.6	222.9	89.2	70.2
82.5°	266.4	334.4	315.4	264.2	258.6	186.1	170.5	86.9	64.6	51.3	44.6
85°	138.2	169.4	162.7	143.8	107.0	95.9	53.5	41.2	33.4	25.6	21.2
87.5°	46.8	62.4	60.2	47.9	36.8	29.0	18.9	15.6	11.1	8.9	7.8
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: P1213495

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0
2.5°	3743.0	3743.0	3740.7	3743.0	3744.1	3741.9	3741.9	3744.1	3745.2	3746.3	3751.9
5°	3748.5	3750.8	3754.1	3760.8	3761.9	3775.3	3780.9	3784.2	3787.6	3788.7	3780.9
7.5°	3760.8	3768.6	3775.3	3774.2	3766.4	3745.2	3738.5	3732.9	3743.0	3768.6	3798.7
10°	3772.0	3736.3	3669.4	3760.8	3732.9	3758.6	3834.4	3851.1	3902.4	3974.8	3996.0
12.5°	3695.0	3793.1	3814.3	3711.8	3901.3	3831.0	3914.6	3988.2	4009.4	4082.9	4038.4
15°	3777.5	3825.5	3857.8	3960.3	3949.2	4009.4	4032.8	4018.3	4021.6	4040.6	4090.7
17.5°	3776.4	3872.3	3893.5	3962.6	4009.4	4010.5	4003.8	3997.1	4014.9	4029.4	3999.3
20°	3841.1	3872.3	3913.5	3941.4	3950.3	3961.4	3982.6	3965.9	3932.5	3900.1	3886.8
22.5°	3808.7	3879.0	3914.6	3919.1	3913.5	3879.0	3847.8	3800.9	3785.3	3768.6	3774.2
25°	3815.4	3847.8	3843.3	3825.5	3802.1	3737.4	3721.8	3701.7	3671.6	3599.2	3533.4
27.5°	3767.5	3750.8	3730.7	3687.2	3644.9	3610.3	3571.3	3506.7	3453.2	3375.1	3346.2
30°	3687.2	3620.4	3571.3	3545.7	3504.4	3446.5	3387.4	3308.3	3240.3	3224.7	3210.2
32.5°	3533.4	3467.7	3427.5	3365.1	3294.9	3225.8	3157.8	3126.6	3112.1	3114.3	3100.9
35°	3376.3	3318.3	3258.1	3164.5	3112.1	3043.0	3018.5	3011.8	2998.4	2983.9	2968.3
37.5°	3209.1	3141.1	3050.8	2995.0	2942.7	2914.8	2902.5	2892.5	2869.1	2843.5	2825.6
40°	3047.4	2924.8	2874.7	2820.0	2804.4	2792.2	2774.3	2749.8	2717.5	2713.0	2705.2
42.5°	2831.2	2743.1	2699.7	2688.5	2669.6	2648.4	2632.8	2606.0	2592.7	2601.6	2608.3
45°	2626.1	2581.5	2567.0	2553.6	2518.0	2487.9	2477.9	2468.9	2480.1	2529.1	2412.1
47.5°	2460.0	2442.2	2424.4	2402.1	2368.6	2346.3	2356.4	2365.3	2375.3	2015.3	1839.2
50°	2316.2	2291.7	2263.8	2239.3	2219.3	2217.0	2269.4	2112.3	1768.9	1760.0	1581.7
52.5°	2159.1	2122.3	2105.6	2091.1	2100.0	2133.4	1765.6	1638.5	1571.6	1365.4	1274.0
55°	1989.6	1957.3	1957.3	1970.7	1922.8	1558.3	1539.3	1330.9	1204.9	1169.3	1154.8
57.5°	1820.2	1816.9	1835.8	1678.7	1414.5	1356.5	1140.3	1094.6	1074.5	1070.1	1046.7
60°	1665.3	1696.5	1420.1	1306.4	1135.8	1024.4	993.1	987.6	966.4	958.6	937.4
62.5°	1541.6	1278.5	1190.4	972.0	915.1	900.6	883.9	876.1	857.2	756.8	221.8
65°	1113.5	1052.2	853.8	817.0	812.6	791.4	784.7	705.6	166.1	111.5	94.7
67.5°	840.4	745.7	720.1	713.4	692.2	649.8	192.8	110.3	94.7	82.5	72.5
70°	645.4	628.7	609.7	594.1	175.0	109.2	94.7	80.3	69.1	61.3	55.7
72.5°	528.3	517.2	301.0	114.8	93.6	79.1	70.2	61.3	53.5	49.0	44.6
75°	413.5	114.8	94.7	79.1	68.0	58.0	51.3	45.7	41.2	37.9	34.6
77.5°	93.6	75.8	64.6	54.6	49.0	43.5	39.0	33.4	30.1	26.8	22.3
80°	58.0	50.2	42.4	39.0	33.4	27.9	24.5	22.3	17.8	16.7	14.5
82.5°	37.9	30.1	26.8	22.3	17.8	16.7	14.5	11.1	10.0	8.9	7.8
85°	16.7	14.5	12.3	10.0	7.8	6.7	5.6	4.5	4.5	4.5	4.5
87.5°	5.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.2	2.2
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: P1213495

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0
2.5°	3754.1	3774.2	3793.1	3787.6	3767.5	3736.3	3727.4	3715.1	3724.0	3743.0	3750.8
5°	3780.9	3769.7	3809.9	3868.9	3964.8	3973.7	4040.6	4056.2	4109.7	4143.1	4142.0
7.5°	3818.8	3977.1	4042.8	4114.2	4146.5	4138.7	4148.7	4140.9	4128.6	4123.1	4116.4
10°	4011.6	4132.0	4156.5	4156.5	4106.3	4038.4	4009.4	3959.2	3858.9	3861.1	3844.4
12.5°	4124.2	4166.5	4108.6	4059.5	3857.8	3779.8	3695.0	3654.9	3631.5	3595.8	3609.2
15°	4065.1	4004.9	3970.4	3812.1	3688.4	3547.9	3550.1	3525.6	3500.0	3502.2	3485.5
17.5°	3978.2	3930.2	3685.0	3575.8	3515.6	3461.0	3450.9	3418.6	3401.9	3396.3	3395.2
20°	3858.9	3686.1	3503.3	3476.6	3404.1	3341.7	3331.7	3341.7	3393.0	3301.6	2991.7
22.5°	3719.6	3471.0	3417.5	3341.7	3292.7	3268.1	3329.4	3050.8	2629.4	2680.7	2626.1
25°	3483.3	3375.1	3283.7	3225.8	3220.2	3069.7	2558.1	2504.6	2233.7	2088.8	1926.1
27.5°	3310.5	3263.7	3167.8	3157.8	3085.3	2510.2	2243.8	1949.5	1841.4	1824.7	1789.0
30°	3205.7	3138.8	3080.9	2827.9	2462.2	2020.8	1800.2	1758.9	1740.0	1719.9	1688.7
32.5°	3079.8	3016.2	3044.1	2377.5	1962.9	1740.0	1695.4	1665.3	1630.7	1617.3	1504.8
35°	2951.6	2922.6	2378.7	1998.6	1687.6	1634.1	1600.6	1569.4	1248.4	302.1	102.5
37.5°	2814.5	2807.8	2137.9	1658.6	1580.6	1530.4	1435.7	296.5	70.2	47.9	35.7
40°	2707.5	2139.0	1689.8	1554.9	1491.4	1412.3	198.4	49.0	31.2	18.9	12.3
42.5°	2636.1	1923.9	1512.6	1459.1	1320.9	146.0	50.2	21.2	12.3	10.0	7.8
45°	2032.0	1519.3	1413.4	1357.6	167.2	50.2	29.0	10.0	7.8	6.7	4.5
47.5°	1874.8	1379.9	1317.5	296.5	55.7	26.8	20.1	6.7	4.5	4.5	4.5
50°	1420.1	1275.2	1048.9	72.5	35.7	18.9	14.5	4.5	4.5	4.5	3.3
52.5°	1245.1	1177.1	112.6	47.9	27.9	14.5	8.9	3.3	3.3	3.3	3.3
55°	1138.1	746.8	66.9	36.8	23.4	13.4	5.6	3.3	3.3	3.3	2.2
57.5°	1041.1	100.3	49.0	31.2	21.2	12.3	3.3	3.3	3.3	3.3	2.2
60°	882.8	72.5	40.1	27.9	20.1	11.1	3.3	3.3	3.3	3.3	3.3
62.5°	114.8	56.8	34.6	24.5	14.5	8.9	2.2	3.3	3.3	3.3	3.3
65°	83.6	44.6	31.2	16.7	8.9	3.3	2.2	3.3	3.3	3.3	3.3
67.5°	64.6	36.8	23.4	14.5	7.8	2.2	2.2	3.3	3.3	3.3	3.3
70°	51.3	31.2	18.9	12.3	6.7	2.2	2.2	3.3	3.3	3.3	3.3
72.5°	40.1	22.3	13.4	6.7	4.5	2.2	2.2	3.3	3.3	3.3	3.3
75°	30.1	17.8	10.0	5.6	2.2	2.2	2.2	3.3	3.3	3.3	3.3
77.5°	20.1	11.1	7.8	4.5	4.5	4.5	5.6	5.6	3.3	3.3	3.3
80°	13.4	7.8	5.6	5.6	5.6	4.5	5.6	5.6	3.3	5.6	3.3
82.5°	6.7	5.6	5.6	4.5	4.5	3.3	4.5	4.5	4.5	4.5	3.3
85°	4.5	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.5	4.5	3.3
87.5°	2.2	2.2	2.2	2.2	3.3	3.3	3.3	3.3	4.5	4.5	3.3
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: P1213495

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0
2.5°	3740.7	3744.1	3735.2	3783.1	3758.6	3760.8	3770.8	3745.2	3750.8	3732.9	3720.7
5°	4146.5	4153.2	4159.9	4162.1	4166.5	4172.1	4165.4	4162.1	4155.4	4133.1	4109.7
7.5°	4082.9	4075.1	4071.8	4076.3	4084.1	4087.4	4081.8	4089.6	4118.6	4130.9	4138.7
10°	3748.5	3712.9	3737.4	3734.1	3706.2	3799.8	3774.2	3788.7	3798.7	3901.3	3963.7
12.5°	3589.2	3611.4	3569.1	3547.9	3575.8	3594.7	3613.7	3573.5	3629.3	3603.6	3686.1
15°	3455.4	3442.0	3437.6	3438.7	3433.1	3459.9	3466.5	3475.5	3483.3	3517.8	3531.2
17.5°	3395.2	3417.5	3426.4	3433.1	3422.0	3409.7	3397.4	3379.6	3385.2	3376.3	3401.9
20°	2783.3	2708.6	2704.1	2747.6	2699.7	2726.4	2791.1	3223.6	3209.1	3377.4	3320.5
22.5°	2322.9	2252.7	2192.5	2140.1	2214.8	2246.0	2366.4	2502.4	2723.1	2688.5	2928.2
25°	1897.1	1871.5	1855.9	1848.1	1853.7	1851.4	1878.2	1941.7	2042.0	2278.3	2583.7
27.5°	1774.5	1762.3	1756.7	1738.8	1752.2	1747.8	1768.9	1782.3	1812.4	1835.8	1935.0
30°	1677.5	1663.0	1653.0	1634.1	1647.4	1648.6	1655.2	1689.8	1702.1	1722.1	1753.3
32.5°	613.1	361.1	338.9	322.1	352.2	459.2	805.9	1408.9	1607.3	1622.9	1658.6
35°	60.2	50.2	44.6	44.6	45.7	50.2	66.9	176.1	322.1	1245.1	1558.3
37.5°	23.4	20.1	16.7	15.6	16.7	18.9	25.6	33.4	45.7	94.7	422.5
40°	10.0	8.9	7.8	7.8	7.8	7.8	8.9	11.1	16.7	31.2	49.0
42.5°	6.7	5.6	5.6	5.6	5.6	5.6	5.6	5.6	7.8	10.0	20.1
45°	4.5	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.5	5.6	8.9
47.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.5
50°	3.3	3.3	3.3	3.3	2.2	3.3	2.2	3.3	3.3	3.3	3.3
52.5°	3.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.3	3.3
55°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.3
57.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
60°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
62.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.3	3.3	2.2
65°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.3	2.2
67.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
70°	3.3	3.3	2.2	3.3	2.2	2.2	3.3	3.3	3.3	2.2	2.2
72.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	6.7	6.7	4.5
75°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	5.6	6.7	5.6
77.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	5.6	5.6	5.6
80°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.5	4.5	4.5
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.5	4.5	4.5
85°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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: P1213495

CATALOG NUMBER: 4SNLED-LD5-62SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0
2.5°	3699.5	3698.4	3721.8	3739.6	3732.9	3739.6	3747.4	3748.5	3750.8	3741.9	3738.5
5°	4065.1	4030.6	3963.7	3915.7	3860.0	3758.6	3708.4	3714.0	3715.1	3711.8	3716.2
7.5°	4135.3	4132.0	4108.6	4098.5	4060.6	3988.2	3872.3	3852.2	3803.2	3772.0	3746.3
10°	3959.2	4039.5	4060.6	4096.3	4118.6	4105.2	4007.1	3992.7	3961.4	3925.8	3933.6
12.5°	3768.6	3834.4	3837.7	4031.7	4075.1	4079.6	4041.7	4061.8	4066.2	3986.0	3939.2
15°	3534.5	3565.7	3631.5	3812.1	3943.6	4026.1	4050.6	4061.8	4007.1	4003.8	3984.9
17.5°	3432.0	3452.1	3482.1	3583.6	3783.1	3904.6	4008.3	4000.5	4021.6	4006.0	3958.1
20°	3302.7	3319.4	3372.9	3424.2	3522.3	3683.9	3877.8	3892.3	3920.2	3916.9	3930.2
22.5°	3300.5	3241.4	3250.3	3290.4	3393.0	3537.9	3744.1	3792.0	3809.9	3822.1	3836.6
25°	2618.3	3087.6	3173.4	3199.0	3265.9	3350.6	3593.6	3611.4	3644.9	3699.5	3739.6
27.5°	2268.3	2587.1	2930.4	3108.7	3151.1	3221.3	3366.2	3393.0	3506.7	3520.0	3582.5
30°	1790.1	2036.5	2549.2	2978.3	3048.6	3097.6	3200.1	3253.6	3302.7	3356.2	3422.0
32.5°	1684.2	1723.2	2007.5	2464.5	3010.7	2973.9	3049.7	3082.0	3135.5	3182.3	3230.2
35°	1587.3	1614.0	1674.2	2018.6	2452.2	2872.4	2923.7	2944.9	2975.0	3010.7	3045.2
37.5°	1485.8	1525.9	1567.2	1659.7	2268.3	2792.2	2791.1	2815.6	2833.4	2863.5	2892.5
40°	269.7	1401.1	1468.0	1528.2	1758.9	2227.1	2666.2	2677.4	2689.6	2708.6	2738.7
42.5°	43.5	234.1	1375.5	1433.4	1499.2	1994.1	2609.4	2563.7	2555.9	2569.3	2596.0
45°	22.3	56.8	276.4	1338.7	1397.8	1590.6	2133.4	2484.5	2476.7	2451.1	2456.7
47.5°	16.7	35.7	68.0	462.6	1308.6	1365.4	1968.5	1947.3	2095.5	2379.8	2336.3
50°	14.5	24.5	40.1	94.7	1155.9	1257.3	1515.9	1771.2	1849.2	1859.2	2200.3
52.5°	13.4	16.7	29.0	61.3	243.0	1162.6	1232.8	1322.0	1453.5	1735.5	1728.8
55°	12.3	15.6	24.5	41.2	84.7	1047.8	1120.2	1136.9	1164.8	1299.7	1478.0
57.5°	6.7	14.5	23.4	35.7	63.5	191.7	1016.6	1029.9	1052.2	1057.8	1121.3
60°	3.3	13.4	21.2	31.2	46.8	89.2	914.0	929.6	943.0	945.2	965.3
62.5°	2.2	12.3	17.8	29.0	39.0	63.5	216.2	441.4	839.3	839.3	862.7
65°	2.2	8.9	11.1	18.9	35.7	52.4	91.4	105.9	206.2	507.2	756.8
67.5°	2.2	3.3	10.0	15.6	26.8	40.1	66.9	78.0	93.6	107.0	198.4
70°	2.2	2.2	8.9	10.0	16.7	30.1	47.9	54.6	63.5	72.5	83.6
72.5°	2.2	2.2	7.8	7.8	11.1	20.1	36.8	40.1	45.7	51.3	59.1
75°	5.6	4.5	6.7	6.7	7.8	15.6	27.9	31.2	33.4	37.9	43.5
77.5°	5.6	5.6	5.6	5.6	5.6	10.0	17.8	20.1	23.4	25.6	30.1
80°	4.5	4.5	4.5	5.6	5.6	6.7	11.1	12.3	13.4	16.7	17.8
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.7	7.8	10.0
85°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.5	4.5	4.5	4.5
87.5°	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	3.3	3.3
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):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0	3714.0
2.5°	3737.4	3730.7	3725.1	3728.5	3718.5	3714.0	3717.3	3718.5	3720.7	3726.3	3727.4
5°	3727.4	3725.1	3735.2	3740.7	3738.5	3740.7	3740.7	3736.3	3729.6	3734.1	3724.0
7.5°	3720.7	3706.2	3695.0	3697.3	3686.1	3699.5	3711.8	3729.6	3735.2	3735.2	3724.0
10°	3835.5	3819.9	3757.5	3715.1	3687.2	3662.7	3720.7	3661.6	3689.5	3583.6	3705.1
12.5°	3930.2	3951.4	3923.5	3807.6	3787.6	3714.0	3756.4	3683.9	3662.7	3541.2	3580.2
15°	3968.1	3928.0	3919.1	3886.8	3843.3	3822.1	3708.4	3696.2	3661.6	3675.0	3623.7
17.5°	3934.7	3954.8	3928.0	3906.8	3862.2	3812.1	3744.1	3683.9	3636.0	3529.0	3619.2
20°	3902.4	3929.1	3848.9	3862.2	3866.7	3808.7	3773.1	3722.9	3662.7	3562.4	3484.4
22.5°	3848.9	3829.9	3836.6	3816.5	3799.8	3807.6	3758.6	3724.0	3622.6	3576.9	3471.0
25°	3761.9	3755.2	3773.1	3770.8	3730.7	3717.3	3692.8	3656.0	3615.9	3542.3	3455.4
27.5°	3620.4	3654.9	3686.1	3700.6	3679.4	3643.8	3630.4	3609.2	3581.4	3506.7	3442.0
30°	3471.0	3510.0	3545.7	3576.9	3595.8	3580.2	3568.0	3555.7	3513.4	3464.3	3391.9
32.5°	3300.5	3351.7	3400.8	3438.7	3479.9	3492.2	3483.3	3473.2	3437.6	3393.0	3335.0
35°	3103.2	3173.4	3244.7	3312.7	3330.6	3359.5	3388.5	3371.8	3352.8	3308.3	3254.8
37.5°	2936.0	2986.1	3037.4	3123.2	3185.7	3222.4	3273.7	3280.4	3248.1	3226.9	3156.7
40°	2763.2	2808.9	2883.6	2933.7	3019.6	3061.9	3116.5	3141.1	3133.3	3121.0	3059.7
42.5°	2627.2	2649.5	2698.6	2743.1	2827.9	2914.8	2962.7	2989.5	3017.3	3007.3	2976.1
45°	2482.3	2502.4	2519.1	2558.1	2640.6	2717.5	2776.6	2816.7	2866.9	2890.3	2852.4
47.5°	2338.5	2344.1	2364.2	2396.5	2445.5	2504.6	2603.8	2664.0	2710.8	2756.5	2732.0
50°	2228.2	2208.1	2211.5	2231.5	2271.6	2329.6	2400.9	2485.7	2539.2	2594.9	2600.5
52.5°	1947.3	2110.0	2071.0	2082.2	2103.3	2131.2	2205.9	2289.5	2355.2	2403.2	2451.1
55°	1634.1	1666.4	1979.6	1935.0	1948.4	1972.9	2007.5	2091.1	2154.6	2221.5	2288.4
57.5°	1267.4	1508.1	1520.4	1810.2	1803.5	1805.7	1834.7	1882.6	1946.2	2029.8	2086.6
60°	985.3	1086.8	1284.1	1384.4	1638.5	1647.4	1664.2	1692.0	1746.6	1825.8	1916.1
62.5°	869.4	882.8	953.0	1103.5	1268.5	1468.0	1503.7	1508.1	1532.6	1611.8	1716.6
65°	763.5	772.4	793.6	809.2	947.4	1140.3	1311.9	1339.8	1355.4	1402.2	1491.4
67.5°	526.1	665.4	684.4	695.5	708.9	798.1	1011.0	1152.5	1170.4	1211.6	1289.6
70°	101.4	210.7	576.3	588.5	595.2	615.3	649.8	875.0	993.1	1032.2	1067.8
72.5°	69.1	81.4	98.1	231.8	490.4	501.6	509.4	538.4	737.9	851.6	870.5
75°	50.2	55.7	65.8	81.4	100.3	326.6	404.6	419.1	433.6	598.6	694.4
77.5°	35.7	40.1	44.6	52.4	61.3	79.1	113.7	313.2	327.7	335.5	473.7
80°	20.1	24.5	30.1	34.6	39.0	44.6	58.0	72.5	161.6	236.3	248.6
82.5°	11.1	13.4	15.6	18.9	21.2	26.8	32.3	39.0	51.3	75.8	160.5
85°	5.6	5.6	5.6	7.8	8.9	12.3	14.5	16.7	23.4	32.3	44.6
87.5°	3.3	3.3	4.5	4.5	4.5	5.6	5.6	5.6	6.7	10.0	14.5
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):

	356°	357°	358°	359°	360°
0°	3714.0	3714.0	3714.0	3714.0	3714.0
2.5°	3728.5	3725.1	3725.1	3738.5	3735.2
5°	3721.8	3718.5	3717.3	3731.8	3725.1
7.5°	3716.2	3704.0	3700.6	3714.0	3708.4
10°	3693.9	3685.0	3690.6	3686.1	3683.9
12.5°	3656.0	3650.5	3627.1	3629.3	3648.2
15°	3588.0	3610.3	3570.2	3605.9	3613.7
17.5°	3463.2	3513.4	3552.4	3573.5	3576.9
20°	3518.9	3535.7	3515.6	3516.7	3530.1
22.5°	3446.5	3454.3	3459.9	3453.2	3482.1
25°	3330.6	3300.5	3365.1	3378.5	3425.3
27.5°	3294.9	3270.4	3300.5	3298.2	3337.2
30°	3265.9	3186.8	3200.1	3221.3	3269.3
32.5°	3224.7	3099.8	3086.4	3133.3	3186.8
35°	3152.2	3034.1	3002.9	3032.9	3113.2
37.5°	3090.9	2942.7	2880.2	2920.4	3025.1
40°	2999.5	2871.3	2774.3	2810.0	2933.7
42.5°	2890.3	2810.0	2660.7	2685.2	2826.7
45°	2779.9	2708.6	2550.3	2562.6	2730.9
47.5°	2667.3	2601.6	2435.5	2437.7	2608.3
50°	2557.0	2470.1	2333.0	2293.9	2477.9
52.5°	2413.2	2333.0	2229.3	2165.8	2354.1
55°	2277.2	2186.9	2111.1	2013.0	2213.7
57.5°	2144.6	2044.3	1993.0	1867.0	2054.3
60°	1962.9	1915.0	1839.2	1718.8	1910.5
62.5°	1776.7	1761.1	1684.2	1559.4	1733.3
65°	1559.4	1596.2	1517.0	1410.0	1549.4
67.5°	1354.3	1420.1	1333.1	1267.4	1372.1
70°	1135.8	1211.6	1162.6	1139.2	1183.8
72.5°	920.7	994.3	998.7	982.0	996.5
75°	711.1	792.5	837.1	811.5	814.8
77.5°	539.5	578.5	627.5	647.6	643.1
80°	333.3	401.3	441.4	482.6	468.2
82.5°	168.3	225.2	274.2	318.8	297.6
85°	70.2	90.3	126.0	166.1	159.4
87.5°	21.2	35.7	37.9	53.5	50.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)