

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: P1214196

Luminaire Tested: 4SNLED-LD5-62HL-RM-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214196
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-LD5-62HL-RM-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

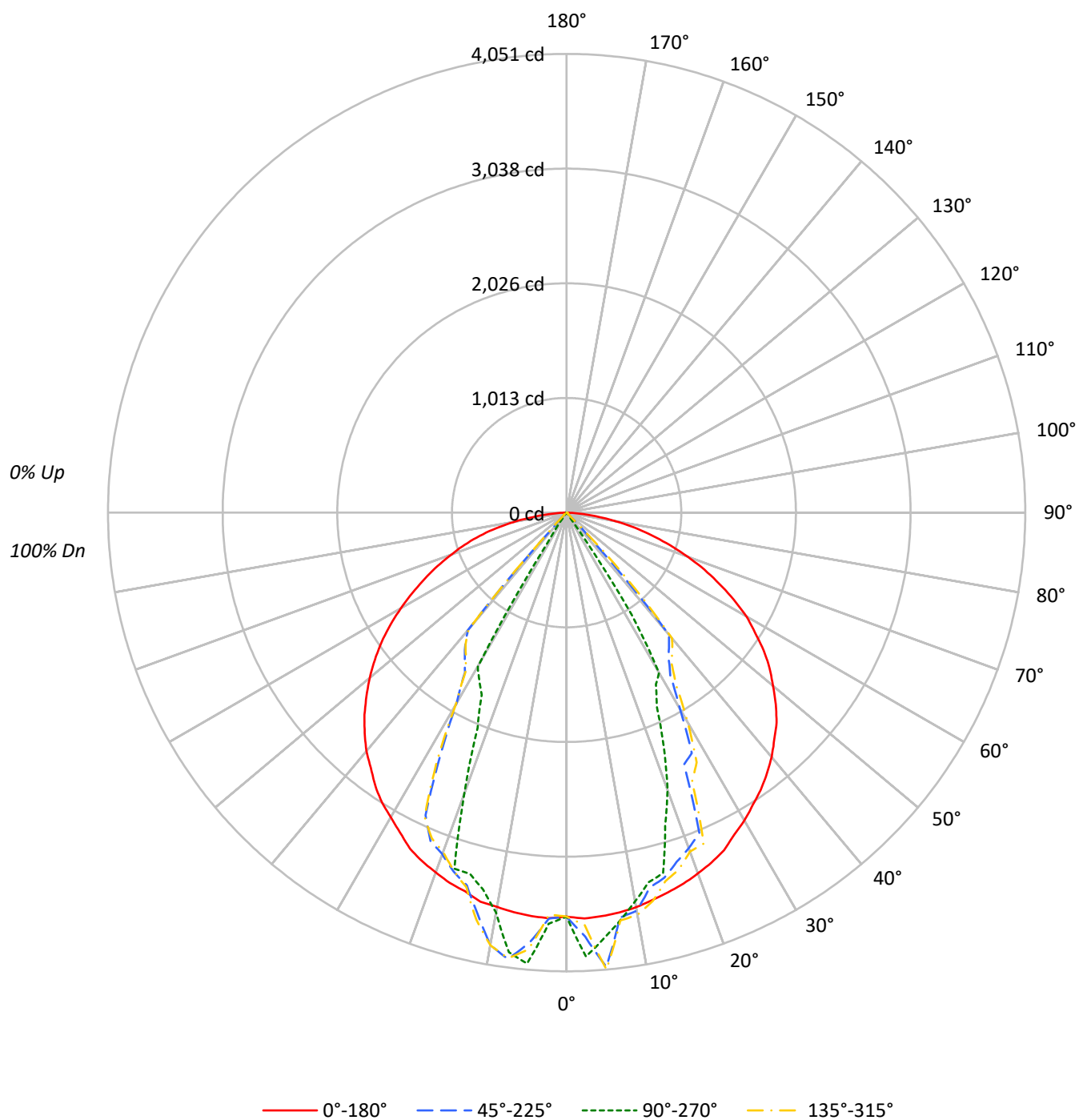
Lumens per Lamp: N/A
Luminaire Lumens: 5072.0 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 43
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: P1214196

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L950-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1214196

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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°	28825	28825	28825	28825
5°	28943	29646	28934	31395
10°	28873	26826	28856	27601
15°	28795	25039	28724	25105
20°	28828	19722	28746	19966
25°	28911	14273	28770	13468
30°	28780	12521	28475	12036
35°	28865	276	28441	334
40°	28963	60	28271	60
45°	29066	36	27974	27
50°	28844	28	27521	28
55°	28675	19	26913	19
60°	28133	21	25933	21
65°	26666	34	24768	22
70°	24738	37	23550	37
75°	21883	42	22241	42
80°	17773	48	18789	48
85°	10459	56	10678	56

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 31385 cd/sqm

TEST NUMBER: P1214196

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.9	7.1
10°-20°	976.1	19.2
20°-30°	1242.1	24.5
30°-40°	1049.3	20.7
40°-50°	686.0	13.5
50°-60°	432.2	8.5
60°-70°	230.1	4.5
70°-80°	83.9	1.7
80°-90°	14.4	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°	2576.1	50.8
0°-40°	3625.4	71.5
0°-60°	4743.6	93.5
0°-90°	5072.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5072.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3567	3567	3567	3567	3567	
5°	3578	3775	3577	3997	3578	340
15°	3471	3294	3462	3303	3471	981
25°	3290	1881	3274	1775	3290	1513
35°	2990	35	2946	43	2990	1870
45°	2623	4	2524	3	2623	2017
55°	2126	2	1996	2	2126	1894
65°	1488	3	1382	2	1488	1474
75°	783	3	795	3	783	831
85°	153	3	156	3	153	194
90°	0	0	0	0	0	

TEST NUMBER: P1214196

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0
2.5°	3587.3	3589.5	3590.6	3592.7	3595.9	3597.0	3599.1	3597.0	3597.0	3597.0	3597.0
5°	3577.7	3582.0	3585.2	3589.5	3597.0	3598.1	3606.6	3607.7	3612.0	3620.5	3627.0
7.5°	3561.7	3565.9	3572.4	3583.1	3593.8	3605.5	3620.5	3636.6	3659.1	3680.5	3707.2
10°	3538.1	3543.5	3551.0	3560.6	3613.0	3620.5	3653.7	3699.8	3712.6	3780.0	3830.4
12.5°	3503.8	3522.0	3541.3	3549.9	3600.2	3679.4	3790.8	3768.3	3743.6	3964.2	3961.0
15°	3470.7	3495.3	3485.6	3555.2	3601.3	3739.4	3692.3	3792.9	3977.0	3932.1	3934.2
17.5°	3435.3	3440.7	3494.2	3552.0	3634.5	3705.1	3762.9	3901.0	3937.4	3940.6	3901.0
20°	3390.4	3416.1	3494.2	3546.7	3685.8	3719.0	3844.3	3914.9	3899.9	3863.5	3796.1
22.5°	3344.3	3422.5	3501.7	3575.6	3673.0	3761.8	3823.9	3857.1	3779.0	3635.5	3558.4
25°	3289.7	3335.8	3439.6	3547.7	3669.8	3721.2	3757.6	3704.0	3602.3	3473.9	3344.3
27.5°	3205.2	3279.0	3411.8	3533.8	3644.1	3706.2	3647.3	3518.8	3355.0	3270.5	3211.6
30°	3139.9	3236.2	3345.4	3463.2	3577.7	3614.1	3464.2	3317.6	3205.2	3120.6	3107.8
32.5°	3060.6	3197.7	3301.5	3413.9	3510.3	3462.1	3316.5	3127.0	3033.9	3001.8	3014.6
35°	2990.0	3093.8	3229.8	3340.1	3409.6	3301.5	3071.4	2953.6	2908.6	2926.8	2903.3
37.5°	2905.4	3042.4	3167.7	3263.0	3239.4	3076.7	2881.9	2806.9	2812.3	2797.3	2752.3
40°	2817.6	2948.2	3078.8	3168.8	3086.3	2838.0	2708.4	2692.4	2695.6	2647.4	2583.2
42.5°	2714.9	2833.7	2964.3	3045.7	2868.0	2674.2	2586.4	2588.5	2560.7	2493.3	2459.0
45°	2622.8	2732.0	2868.0	2875.4	2657.1	2495.4	2469.7	2441.9	2379.8	2357.3	2331.6
47.5°	2505.0	2626.0	2738.4	2697.7	2450.4	2349.8	2330.5	2269.5	2238.5	2221.4	2199.9
50°	2379.8	2501.8	2604.6	2489.0	2255.6	2232.1	2168.9	2120.7	2099.3	2081.1	2061.8
52.5°	2261.0	2361.6	2466.5	2267.4	2105.7	2083.3	2011.5	1983.7	1962.3	1941.9	1937.7
55°	2126.1	2214.9	2286.7	2056.5	1962.3	1909.8	1858.4	1839.2	1818.8	1809.2	1825.3
57.5°	1973.0	2073.6	2062.9	1848.8	1807.1	1731.0	1711.8	1698.9	1683.9	1690.4	1556.6
60°	1834.9	1912.0	1859.5	1696.8	1626.1	1574.8	1557.6	1549.1	1557.6	1427.0	1254.7
62.5°	1664.7	1751.4	1645.4	1519.1	1444.1	1419.5	1404.5	1416.3	1291.1	1147.6	1105.9
65°	1488.0	1582.2	1425.9	1328.5	1281.4	1260.0	1258.9	1159.4	1036.3	980.6	980.6
67.5°	1317.8	1415.2	1214.0	1132.6	1114.4	1116.6	1054.5	903.5	869.3	831.8	723.7
70°	1136.9	1222.5	1003.1	953.8	943.1	935.6	784.7	744.0	703.3	603.8	595.2
72.5°	957.1	998.8	806.1	794.3	792.2	658.4	628.4	558.8	511.7	499.9	494.6
75°	782.6	769.7	637.0	647.7	546.0	498.9	450.7	410.0	403.6	399.3	99.6
77.5°	617.7	553.5	502.1	436.8	390.7	331.9	322.2	315.8	207.7	74.9	61.0
80°	449.6	358.6	334.0	283.7	241.9	232.3	237.7	72.8	57.8	48.2	41.8
82.5°	285.8	229.1	187.3	163.8	159.5	69.6	51.4	41.8	36.4	31.0	25.7
85°	153.1	101.7	94.2	79.2	47.1	32.1	26.8	20.3	17.1	13.9	12.8
87.5°	48.2	40.7	33.2	26.8	16.1	10.7	8.6	7.5	6.4	5.4	5.4
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: P1214196

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0
2.5°	3594.8	3597.0	3595.9	3599.1	3599.1	3603.4	3606.6	3609.8	3616.3	3619.5	3644.1
5°	3640.9	3646.2	3662.3	3677.3	3695.5	3700.8	3731.9	3739.4	3775.8	3780.0	3899.9
7.5°	3743.6	3764.0	3802.5	3841.1	3879.6	3904.2	3947.0	3973.8	4002.7	4028.4	4123.7
10°	3867.8	3902.1	3939.6	3978.1	4000.6	4047.7	4073.4	4077.7	4070.2	4028.4	3874.3
12.5°	3989.9	4024.1	4008.1	4015.6	4042.3	3958.8	3970.6	3910.7	3952.4	3745.8	3592.7
15°	3972.7	3970.6	3931.0	3802.5	3823.9	3664.4	3600.2	3551.0	3590.6	3569.2	3545.6
17.5°	3921.4	3823.9	3755.4	3601.3	3536.0	3491.0	3492.1	3493.1	3473.9	3494.2	3434.3
20°	3704.0	3594.8	3493.1	3438.5	3419.3	3387.2	3403.2	3387.2	3388.2	3394.7	3302.6
22.5°	3415.0	3381.8	3322.9	3340.1	3333.6	3362.5	3341.1	3307.9	3318.6	3270.5	3200.9
25°	3298.3	3259.8	3257.6	3264.0	3254.4	3241.6	3222.3	3172.0	3168.8	3153.8	3121.7
27.5°	3180.5	3182.7	3189.1	3169.8	3135.6	3109.9	3081.0	3056.4	3066.0	3048.9	3005.0
30°	3099.2	3098.1	3059.6	3042.4	2979.3	2980.4	2972.9	2957.9	2948.2	2949.3	2921.5
32.5°	2983.6	2950.4	2906.5	2885.1	2879.7	2860.5	2845.5	2848.7	2856.2	2829.4	2858.3
35°	2864.7	2796.2	2789.8	2771.6	2754.5	2741.6	2747.0	2725.6	2724.5	2721.3	2485.8
37.5°	2705.2	2672.0	2668.8	2649.6	2637.8	2634.6	2614.2	2617.4	2627.1	2644.2	2119.7
40°	2573.6	2543.6	2536.1	2535.0	2509.3	2507.2	2512.5	2532.9	2546.8	2439.7	2020.1
42.5°	2432.2	2434.4	2410.8	2395.8	2399.1	2408.7	2434.4	2363.7	2047.9	1951.6	1846.7
45°	2311.3	2300.6	2287.7	2283.4	2311.3	2292.0	2009.4	1854.2	1816.7	1812.4	1518.0
47.5°	2185.0	2181.7	2176.4	2179.6	2021.2	1801.7	1737.5	1717.1	1723.6	1719.3	1303.9
50°	2057.6	2061.8	2061.8	1800.6	1652.9	1616.5	1621.9	1640.1	1526.6	1424.9	1215.1
52.5°	1947.3	1914.1	1640.1	1545.8	1512.7	1528.7	1490.2	1347.8	1245.0	1185.1	1124.1
55°	1742.8	1498.7	1437.7	1422.7	1434.5	1292.1	1204.3	1112.3	1085.5	1079.1	1043.8
57.5°	1371.4	1322.1	1327.5	1267.5	1131.6	1051.3	1015.9	1003.1	991.3	982.7	85.6
60°	1212.9	1226.8	1123.0	994.5	939.9	929.2	920.7	908.9	906.7	891.8	54.6
62.5°	1110.1	976.3	886.4	854.3	841.4	838.2	822.2	816.8	693.7	95.3	40.7
65°	837.2	782.6	765.4	757.9	744.0	744.0	617.7	97.4	79.2	68.5	36.4
67.5°	683.0	678.7	670.2	660.5	449.6	94.2	82.4	71.7	62.1	54.6	32.1
70°	578.1	575.9	524.6	96.3	80.3	70.7	62.1	55.7	51.4	46.0	28.9
72.5°	474.2	96.3	81.4	70.7	61.0	55.7	50.3	45.0	40.7	37.5	23.6
75°	73.9	65.3	57.8	52.5	48.2	42.8	38.5	35.3	34.3	30.0	16.1
77.5°	53.5	46.0	41.8	37.5	33.2	30.0	25.7	22.5	20.3	17.1	11.8
80°	37.5	33.2	30.0	24.6	21.4	18.2	16.1	13.9	12.8	10.7	5.4
82.5°	21.4	18.2	16.1	12.8	11.8	9.6	8.6	7.5	7.5	5.4	5.4
85°	9.6	9.6	7.5	6.4	5.4	5.4	5.4	4.3	4.3	3.2	3.2
87.5°	4.3	4.3	4.3	4.3	4.3	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

TEST NUMBER: P1214196

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0
2.5°	3678.3	3692.3	3719.0	3746.9	3715.8	3827.1	3818.6	3856.1	3876.4	3886.0	3908.5
5°	4005.9	4068.0	4088.4	4027.3	3992.0	3955.6	3873.2	3811.1	3818.6	3798.2	3724.4
7.5°	3999.5	3866.8	3688.0	3606.6	3600.2	3590.6	3616.3	3631.2	3633.4	3632.3	3630.2
10°	3661.2	3592.7	3580.9	3570.2	3574.5	3534.9	3516.7	3465.3	3493.1	3478.2	3483.5
12.5°	3558.4	3542.4	3479.2	3391.4	3443.9	3404.3	3381.8	3396.8	3379.7	3363.6	3358.3
15°	3497.4	3393.6	3358.3	3336.8	3321.9	3313.3	3320.8	3303.7	3298.3	3295.1	3302.6
17.5°	3371.1	3329.4	3290.8	3234.1	3235.1	3231.9	3253.3	3285.5	3287.6	3122.7	2973.9
20°	3271.5	3237.3	3188.0	3152.7	3200.9	3115.2	2784.5	2627.1	2602.5	2602.5	2606.7
22.5°	3192.3	3116.3	3119.5	3063.9	2613.2	2521.1	2523.2	2532.9	2489.0	2339.1	2323.1
25°	3084.2	3072.4	2838.0	2452.6	2455.8	2384.1	2273.8	2118.6	1950.5	1950.5	1922.7
27.5°	3002.8	2753.4	2410.8	2394.8	2153.9	2001.9	1907.7	1765.3	1746.0	1727.8	1730.0
30°	2933.3	2329.5	2338.0	2001.9	1824.2	1697.9	1690.4	1666.8	1655.0	1651.8	1640.1
32.5°	2318.8	2268.5	1956.9	1704.3	1634.7	1614.4	1604.7	1578.0	1576.9	1556.6	1415.2
35°	2174.2	1991.2	1637.9	1569.4	1549.1	1529.8	1513.7	1015.9	119.9	48.2	41.8
37.5°	2009.4	1663.6	1514.8	1483.8	1464.5	1082.3	108.1	37.5	26.8	19.3	17.1
40°	1703.2	1485.9	1438.8	1404.5	579.2	37.5	23.6	18.2	10.7	9.6	8.6
42.5°	1436.7	1400.3	1349.9	411.1	42.8	18.2	11.8	8.6	7.5	7.5	6.4
45°	1344.6	1312.5	543.8	40.7	26.8	8.6	7.5	7.5	6.4	4.3	4.3
47.5°	1258.9	1108.0	49.2	25.7	17.1	7.5	6.4	4.3	4.3	4.3	3.2
50°	1167.9	61.0	34.3	19.3	10.7	4.3	4.3	4.3	4.3	3.2	3.2
52.5°	218.4	42.8	27.8	17.1	5.4	4.3	4.3	4.3	3.2	3.2	3.2
55°	51.4	34.3	25.7	15.0	4.3	4.3	4.3	3.2	3.2	3.2	2.1
57.5°	38.5	25.7	20.3	13.9	4.3	3.2	3.2	3.2	3.2	3.2	2.1
60°	32.1	18.2	16.1	12.8	3.2	3.2	3.2	3.2	3.2	3.2	2.1
62.5°	22.5	15.0	11.8	9.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2
65°	18.2	11.8	9.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
67.5°	16.1	9.6	6.4	2.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2
70°	12.8	3.2	3.2	2.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2
72.5°	10.7	3.2	2.1	2.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2
75°	10.7	5.4	2.1	2.1	3.2	3.2	4.3	4.3	3.2	3.2	3.2
77.5°	7.5	5.4	2.1	2.1	3.2	3.2	4.3	4.3	3.2	3.2	3.2
80°	4.3	5.4	2.1	3.2	3.2	6.4	7.5	4.3	3.2	3.2	3.2
82.5°	4.3	5.4	6.4	6.4	3.2	5.4	6.4	5.4	4.3	3.2	3.2
85°	4.3	3.2	4.3	5.4	3.2	5.4	5.4	4.3	4.3	3.2	3.2
87.5°	2.1	3.2	3.2	4.3	4.3	4.3	5.4	4.3	4.3	4.3	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: P1214196

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0
2.5°	3919.2	3923.5	3856.1	3832.5	3852.8	3848.6	3830.4	3762.9	3755.4	3710.5	3645.2
5°	3745.8	3774.7	3739.4	3800.4	3771.5	3800.4	3888.2	3928.8	3995.2	4035.9	4050.9
7.5°	3624.8	3631.2	3631.2	3636.6	3641.9	3643.0	3636.6	3632.3	3614.1	3591.6	3632.3
10°	3478.2	3485.6	3498.5	3496.4	3495.3	3517.8	3523.1	3569.2	3567.0	3575.6	3606.6
12.5°	3402.1	3344.3	3396.8	3382.9	3402.1	3372.2	3427.8	3418.2	3421.4	3447.1	3513.5
15°	3275.8	3294.0	3306.9	3306.9	3314.4	3307.9	3301.5	3345.4	3372.2	3373.2	3369.0
17.5°	3032.8	2894.7	3036.0	2999.6	3289.7	3297.2	3272.6	3252.3	3252.3	3268.3	3302.6
20°	2603.5	2606.7	2607.8	2621.7	2638.9	2637.8	2638.9	3060.6	3260.8	3214.8	3183.8
22.5°	2282.4	2242.8	2316.6	2311.3	2403.3	2505.0	2602.5	2592.8	2599.2	2896.9	3164.5
25°	1829.5	1880.9	1839.2	1857.4	1961.2	2082.2	2157.1	2353.0	2566.1	2551.1	2620.7
27.5°	1722.5	1708.6	1727.8	1727.8	1741.8	1757.8	1799.6	1909.8	2099.3	2298.4	2486.8
30°	1620.8	1632.6	1634.7	1654.0	1664.7	1675.4	1681.8	1723.6	1766.4	1904.5	2136.8
32.5°	1217.2	1067.3	1404.5	1495.5	1572.6	1590.8	1603.7	1620.8	1651.8	1672.2	1788.9
35°	35.3	35.3	37.5	42.8	54.6	368.3	1402.4	1545.8	1566.2	1591.9	1613.3
37.5°	17.1	12.8	15.0	16.1	19.3	26.8	38.5	119.9	1335.0	1509.4	1533.0
40°	7.5	7.5	7.5	7.5	8.6	10.7	16.1	26.8	40.7	1073.7	1448.4
42.5°	6.4	6.4	6.4	6.4	6.4	6.4	7.5	9.6	19.3	46.0	760.1
45°	4.3	4.3	3.2	4.3	4.3	5.4	6.4	6.4	8.6	28.9	52.5
47.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	5.4	6.4	19.3	27.8
50°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	15.0	19.3
52.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	6.4	17.1
55°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2	4.3	15.0
57.5°	2.1	2.1	2.1	2.1	2.1	3.2	2.1	2.1	3.2	3.2	13.9
60°	2.1	2.1	2.1	2.1	2.1	3.2	3.2	3.2	3.2	3.2	12.8
62.5°	3.2	3.2	2.1	3.2	2.1	2.1	3.2	3.2	3.2	3.2	8.6
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	4.3	4.3	2.1	2.1	2.1
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	5.4	6.4	5.4	5.4	2.1
80°	3.2	3.2	3.2	3.2	3.2	3.2	5.4	5.4	5.4	5.4	7.5
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	4.3	4.3	4.3	4.3	5.4
85°	3.2	3.2	3.2	3.2	3.2	3.2	4.3	4.3	4.3	3.2	4.3
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.3	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: P1214196

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0
2.5°	3650.5	3614.1	3602.3	3577.7	3575.6	3577.7	3572.4	3564.9	3569.2	3561.7	3555.2
5°	4059.5	3962.0	3898.9	3814.3	3697.6	3671.9	3665.5	3629.1	3616.3	3612.0	3594.8
7.5°	3728.7	3906.4	4013.4	4049.8	3912.8	3880.7	3843.2	3813.2	3784.3	3729.7	3696.5
10°	3582.0	3590.6	3693.3	3813.2	4008.1	4034.8	4055.2	3989.9	3971.7	3832.5	3802.5
12.5°	3547.7	3548.8	3560.6	3633.4	3786.5	3803.6	3875.3	3913.9	3961.0	3987.7	3966.3
15°	3391.4	3478.2	3542.4	3548.8	3562.7	3592.7	3614.1	3747.9	3804.7	3956.7	3948.1
17.5°	3318.6	3346.5	3439.6	3515.6	3502.8	3492.1	3509.2	3527.4	3582.0	3734.0	3731.9
20°	3197.7	3286.5	3336.8	3416.1	3487.8	3491.0	3471.7	3461.0	3439.6	3464.2	3486.7
22.5°	3146.3	3160.2	3254.4	3310.1	3391.4	3420.3	3424.6	3425.7	3413.9	3401.1	3394.7
25°	3140.9	3097.0	3145.2	3214.8	3274.8	3305.8	3341.1	3352.9	3348.6	3348.6	3342.2
27.5°	2570.3	3083.1	3057.4	3103.5	3176.3	3197.7	3215.9	3252.3	3274.8	3290.8	3298.3
30°	2448.3	2540.4	2988.9	2995.3	3069.2	3067.1	3087.4	3117.4	3146.3	3183.8	3193.4
32.5°	2165.7	2391.6	2736.3	2887.2	2964.3	2971.8	2982.5	2991.1	3017.8	3059.6	3096.0
35°	1735.3	2178.5	2344.5	2835.8	2849.8	2864.7	2871.2	2891.5	2900.1	2917.2	2949.3
37.5°	1570.5	1800.6	2249.2	2452.6	2718.1	2730.9	2765.2	2773.7	2787.7	2801.6	2826.2
40°	1475.2	1538.4	1872.4	2190.3	2612.1	2620.7	2632.4	2653.8	2654.9	2671.0	2693.5
42.5°	1399.2	1439.9	1537.3	2091.8	2537.2	2536.1	2508.3	2522.2	2528.6	2545.7	2576.8
45°	1117.6	1351.0	1413.1	1708.6	2020.1	2165.7	2445.1	2399.1	2398.0	2404.4	2437.6
47.5°	56.7	1270.7	1314.6	1409.9	1907.7	1913.0	1949.4	2255.6	2302.7	2287.7	2290.9
50°	38.5	87.8	1224.7	1268.6	1644.3	1777.1	1803.8	1817.8	1994.4	2191.4	2159.3
52.5°	30.0	50.3	750.4	1177.6	1336.0	1433.4	1605.8	1704.3	1715.0	1794.2	2062.9
55°	26.8	38.5	81.4	1086.6	1135.8	1157.2	1257.9	1430.2	1569.4	1611.1	1614.4
57.5°	23.6	35.3	55.7	491.4	1033.1	1037.3	1054.5	1114.4	1239.7	1354.2	1483.8
60°	21.4	31.0	43.9	84.6	938.9	949.6	952.8	968.8	983.8	1062.0	1210.8
62.5°	12.8	24.6	38.5	61.0	742.9	853.2	852.1	862.8	876.8	885.3	915.3
65°	10.7	19.3	33.2	51.4	91.0	113.5	689.4	766.5	775.1	786.8	792.2
67.5°	9.6	17.1	24.6	40.7	68.5	78.1	89.9	111.3	608.1	685.1	695.8
70°	8.6	11.8	20.3	34.3	55.7	59.9	67.4	77.1	91.0	112.4	550.3
72.5°	5.4	8.6	13.9	24.6	42.8	48.2	52.5	58.9	65.3	78.1	89.9
75°	2.1	6.4	11.8	18.2	33.2	36.4	39.6	43.9	49.2	57.8	64.2
77.5°	2.1	5.4	9.6	12.8	21.4	24.6	28.9	32.1	36.4	40.7	47.1
80°	7.5	4.3	6.4	9.6	15.0	16.1	18.2	20.3	23.6	26.8	31.0
82.5°	5.4	6.4	7.5	6.4	7.5	9.6	10.7	12.8	13.9	16.1	17.1
85°	4.3	4.3	5.4	5.4	5.4	5.4	5.4	5.4	6.4	7.5	9.6
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.3	4.3
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: P1214196

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0
2.5°	3555.2	3553.1	3546.7	3546.7	3545.6	3549.9	3553.1	3556.3	3555.2	3561.7	3555.2
5°	3582.0	3576.6	3567.0	3558.4	3555.2	3557.4	3554.2	3557.4	3553.1	3558.4	3548.8
7.5°	3655.9	3637.7	3600.2	3585.2	3565.9	3564.9	3555.2	3553.1	3546.7	3546.7	3534.9
10°	3786.5	3698.7	3688.0	3643.0	3627.0	3548.8	3565.9	3537.0	3533.8	3519.9	3514.6
12.5°	3893.5	3825.0	3804.7	3765.1	3720.1	3561.7	3597.0	3534.9	3531.7	3503.8	3474.9
15°	3895.7	3935.3	3879.6	3770.4	3760.8	3651.6	3579.9	3558.4	3530.6	3447.1	3461.0
17.5°	3770.4	3861.4	3888.2	3864.6	3796.1	3722.2	3621.6	3578.8	3495.3	3457.8	3432.1
20°	3567.0	3659.1	3773.6	3781.1	3823.9	3771.5	3639.8	3570.2	3469.6	3404.3	3382.9
22.5°	3405.4	3472.8	3604.5	3665.5	3718.0	3736.2	3652.7	3549.9	3424.6	3361.5	3348.6
25°	3319.7	3334.7	3374.3	3446.0	3561.7	3645.2	3656.9	3547.7	3482.4	3344.3	3271.5
27.5°	3288.7	3275.8	3259.8	3296.2	3382.9	3484.6	3552.0	3570.2	3407.5	3275.8	3203.0
30°	3209.5	3216.9	3192.3	3179.5	3236.2	3341.1	3461.0	3491.0	3365.7	3229.8	3146.3
32.5°	3112.0	3124.9	3129.2	3106.7	3094.9	3167.7	3297.2	3369.0	3362.5	3164.5	3071.4
35°	2990.0	3026.4	3036.0	3037.1	3017.8	3006.1	3081.0	3229.8	3286.5	3134.5	2999.6
37.5°	2861.5	2872.2	2924.7	2938.6	2938.6	2903.3	2958.9	3077.8	3157.0	3067.1	2911.8
40°	2701.0	2735.2	2784.5	2809.1	2833.7	2836.9	2805.9	2889.4	3020.0	2997.5	2829.4
42.5°	2584.3	2606.7	2636.7	2669.9	2720.2	2733.1	2701.0	2715.9	2851.9	2910.8	2722.4
45°	2448.3	2478.3	2486.8	2523.2	2575.7	2613.2	2612.1	2581.1	2690.2	2763.0	2644.2
47.5°	2309.1	2338.0	2353.0	2371.2	2409.8	2457.9	2484.7	2470.8	2492.2	2634.6	2540.4
50°	2165.7	2181.7	2211.7	2232.1	2257.8	2285.6	2349.8	2362.7	2332.7	2446.2	2425.8
52.5°	2029.7	2035.1	2055.4	2075.8	2110.0	2130.4	2181.7	2220.3	2218.1	2251.3	2298.4
55°	1923.7	1900.2	1904.5	1920.5	1943.0	1974.1	2003.0	2062.9	2083.3	2089.7	2164.6
57.5°	1503.0	1745.0	1766.4	1765.3	1792.1	1806.0	1832.7	1872.4	1945.2	1929.1	2012.6
60°	1366.0	1392.8	1595.1	1618.6	1628.3	1641.1	1673.2	1709.6	1763.2	1797.4	1833.8
62.5°	1041.6	1204.3	1265.4	1444.1	1472.0	1479.5	1500.9	1518.0	1573.7	1651.8	1636.8
65°	806.1	875.7	1062.0	1134.8	1286.8	1306.0	1336.0	1354.2	1370.3	1460.2	1464.5
67.5°	696.9	707.6	757.9	898.2	994.5	1143.3	1161.5	1177.6	1202.2	1266.4	1306.0
70°	595.2	608.1	622.0	633.8	759.0	857.5	995.6	1000.9	1017.0	1059.8	1149.8
72.5°	112.4	508.5	517.1	524.6	538.5	603.8	735.5	842.5	848.9	869.3	951.7
75°	76.0	88.9	122.0	419.6	433.6	437.8	460.3	594.1	692.6	696.9	733.3
77.5°	54.6	61.0	73.9	87.8	223.7	336.1	341.5	366.1	467.8	541.7	548.1
80°	37.5	41.8	49.2	55.7	68.5	89.9	248.4	255.9	268.7	370.4	389.7
82.5°	21.4	24.6	28.9	35.3	40.7	51.4	66.4	85.6	174.5	186.3	247.3
85°	10.7	11.8	13.9	17.1	20.3	24.6	33.2	40.7	55.7	100.6	103.8
87.5°	5.4	5.4	5.4	5.4	8.6	9.6	11.8	15.0	19.3	28.9	37.5
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: P1214196

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0
2.5°	3556.3	3571.3	3584.1	3587.3	3587.3	3589.5	3592.7	3594.8	3597.0	3599.1	3597.0
5°	3549.9	3565.9	3576.6	3579.9	3579.9	3586.3	3591.6	3598.1	3601.3	3601.3	3599.1
7.5°	3533.8	3545.6	3559.5	3568.1	3569.2	3579.9	3589.5	3588.4	3592.7	3594.8	3600.2
10°	3512.4	3512.4	3536.0	3542.4	3547.7	3559.5	3562.7	3569.2	3584.1	3586.3	3600.2
12.5°	3501.7	3491.0	3518.8	3522.0	3540.2	3525.3	3544.5	3551.0	3536.0	3556.3	3529.5
15°	3453.5	3466.4	3462.1	3471.7	3503.8	3486.7	3539.2	3522.0	3560.6	3514.6	3595.9
17.5°	3413.9	3411.8	3428.9	3437.5	3443.9	3480.3	3494.2	3513.5	3528.5	3515.6	3547.7
20°	3385.0	3367.9	3380.7	3390.4	3412.9	3440.7	3449.3	3420.3	3470.7	3556.3	3576.6
22.5°	3330.4	3318.6	3333.6	3333.6	3367.9	3363.6	3395.7	3377.5	3424.6	3524.2	3628.0
25°	3256.6	3257.6	3273.7	3293.0	3299.4	3347.6	3364.7	3388.2	3447.1	3565.9	3629.1
27.5°	3181.6	3175.2	3184.8	3224.4	3257.6	3293.0	3298.3	3378.6	3458.9	3540.2	3595.9
30°	3106.7	3100.3	3106.7	3135.6	3175.2	3198.7	3257.6	3364.7	3439.6	3495.3	3547.7
32.5°	3026.4	3020.0	3035.0	3056.4	3126.0	3129.2	3245.9	3346.5	3405.4	3446.0	3436.4
35°	2940.7	2932.2	2946.1	2979.3	3043.5	3067.1	3189.1	3264.0	3330.4	3349.7	3304.7
37.5°	2838.0	2823.0	2840.1	2886.2	2953.6	3022.1	3123.8	3210.5	3245.9	3194.5	3140.9
40°	2730.9	2720.2	2750.2	2773.7	2853.0	2948.2	3064.9	3126.0	3103.5	3044.6	2985.7
42.5°	2635.6	2613.2	2639.9	2684.9	2774.8	2882.9	2977.1	3011.4	2957.9	2871.2	2802.7
45°	2519.0	2492.2	2524.3	2584.3	2680.6	2803.7	2877.6	2865.8	2774.8	2699.9	2605.7
47.5°	2396.9	2364.8	2396.9	2468.6	2576.8	2707.4	2760.9	2707.4	2592.8	2498.6	2422.6
50°	2277.0	2239.6	2270.6	2378.7	2484.7	2585.3	2584.3	2480.4	2411.9	2309.1	2242.8
52.5°	2158.2	2104.7	2135.7	2253.5	2359.5	2474.0	2389.4	2293.1	2210.6	2120.7	2099.3
55°	2011.5	1953.7	1995.5	2166.8	2248.1	2315.6	2180.7	2096.1	2014.7	1969.8	1943.0
57.5°	1872.4	1809.2	1845.6	2047.9	2107.9	2125.0	2000.8	1880.9	1832.7	1817.8	1779.2
60°	1728.9	1657.2	1691.4	1924.8	1966.6	1897.0	1774.9	1681.8	1672.2	1642.2	1612.2
62.5°	1591.9	1512.7	1534.1	1771.7	1791.0	1664.7	1552.3	1527.6	1504.1	1474.1	1458.1
65°	1434.5	1352.1	1382.1	1609.0	1590.8	1428.1	1364.9	1359.6	1328.5	1303.9	1327.5
67.5°	1290.0	1192.6	1234.3	1431.3	1348.9	1216.1	1190.4	1177.6	1153.0	1166.9	919.6
70°	1131.6	1025.6	1082.3	1239.7	1117.6	1029.9	1020.2	1000.9	1002.0	796.5	671.2
72.5°	954.9	862.8	945.3	1029.9	884.3	858.6	844.6	842.5	679.8	552.4	521.3
75°	799.7	706.6	795.4	827.5	704.4	687.3	686.2	567.4	446.4	426.1	416.4
77.5°	624.1	552.4	637.0	588.8	540.6	521.3	467.8	351.1	336.1	322.2	121.0
80°	420.7	426.1	475.3	405.7	385.4	328.7	259.1	248.4	214.1	85.6	67.4
82.5°	255.9	321.2	303.0	253.7	248.4	178.8	163.8	83.5	62.1	49.2	42.8
85°	132.7	162.7	156.3	138.1	102.8	92.1	51.4	39.6	32.1	24.6	20.3
87.5°	45.0	59.9	57.8	46.0	35.3	27.8	18.2	15.0	10.7	8.6	7.5
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: P1214196

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0
2.5°	3594.8	3594.8	3592.7	3594.8	3595.9	3593.8	3593.8	3595.9	3597.0	3598.1	3603.4
5°	3600.2	3602.3	3605.5	3612.0	3613.0	3625.9	3631.2	3634.5	3637.7	3638.7	3631.2
7.5°	3612.0	3619.5	3625.9	3624.8	3617.3	3597.0	3590.6	3585.2	3594.8	3619.5	3648.4
10°	3622.7	3588.4	3524.2	3612.0	3585.2	3609.8	3682.6	3698.7	3747.9	3817.5	3837.9
12.5°	3548.8	3643.0	3663.4	3564.9	3746.9	3679.4	3759.7	3830.4	3850.7	3921.4	3878.5
15°	3628.0	3674.1	3705.1	3803.6	3792.9	3850.7	3873.2	3859.3	3862.5	3880.7	3928.8
17.5°	3627.0	3719.0	3739.4	3805.7	3850.7	3851.8	3845.3	3838.9	3856.1	3870.0	3841.1
20°	3689.1	3719.0	3758.6	3785.4	3794.0	3804.7	3825.0	3808.9	3776.8	3745.8	3732.9
22.5°	3658.0	3725.4	3759.7	3764.0	3758.6	3725.4	3695.5	3650.5	3635.5	3619.5	3624.8
25°	3664.4	3695.5	3691.2	3674.1	3651.6	3589.5	3574.5	3555.2	3526.3	3456.7	3393.6
27.5°	3618.4	3602.3	3583.1	3541.3	3500.6	3467.5	3430.0	3367.9	3316.5	3241.6	3213.7
30°	3541.3	3477.1	3430.0	3405.4	3365.7	3310.1	3253.3	3177.3	3112.0	3097.0	3083.1
32.5°	3393.6	3330.4	3291.9	3231.9	3164.5	3098.1	3032.8	3002.8	2988.9	2991.1	2978.2
35°	3242.6	3187.0	3129.2	3039.2	2988.9	2922.6	2899.0	2892.6	2879.7	2865.8	2850.8
37.5°	3082.1	3016.8	2930.0	2876.5	2826.2	2799.4	2787.7	2778.0	2755.5	2730.9	2713.8
40°	2926.8	2809.1	2760.9	2708.4	2693.5	2681.7	2664.6	2641.0	2610.0	2605.7	2598.2
42.5°	2719.1	2634.6	2592.8	2582.1	2563.9	2543.6	2528.6	2502.9	2490.1	2498.6	2505.0
45°	2522.2	2479.4	2465.4	2452.6	2418.3	2389.4	2379.8	2371.2	2381.9	2429.0	2316.6
47.5°	2362.7	2345.5	2328.4	2307.0	2274.9	2253.5	2263.1	2271.7	2281.3	1935.5	1766.4
50°	2224.6	2201.0	2174.2	2150.7	2131.4	2129.3	2179.6	2028.7	1698.9	1690.4	1519.1
52.5°	2073.6	2038.3	2022.2	2008.3	2016.9	2049.0	1695.7	1573.7	1509.4	1311.4	1223.6
55°	1910.9	1879.9	1879.9	1892.7	1846.7	1496.6	1478.4	1278.2	1157.2	1123.0	1109.1
57.5°	1748.2	1745.0	1763.2	1612.2	1358.5	1302.8	1095.2	1051.3	1032.0	1027.7	1005.2
60°	1599.4	1629.3	1363.9	1254.7	1090.9	983.8	953.8	948.5	928.2	920.7	900.3
62.5°	1480.5	1227.9	1143.3	933.5	878.9	865.0	848.9	841.4	823.2	726.9	213.0
65°	1069.5	1010.6	820.0	784.7	780.4	760.1	753.7	677.6	159.5	107.1	91.0
67.5°	807.2	716.2	691.6	685.1	664.8	624.1	185.2	106.0	91.0	79.2	69.6
70°	619.8	603.8	585.6	570.6	168.1	104.9	91.0	77.1	66.4	58.9	53.5
72.5°	507.4	496.7	289.0	110.3	89.9	76.0	67.4	58.9	51.4	47.1	42.8
75°	397.2	110.3	91.0	76.0	65.3	55.7	49.2	43.9	39.6	36.4	33.2
77.5°	89.9	72.8	62.1	52.5	47.1	41.8	37.5	32.1	28.9	25.7	21.4
80°	55.7	48.2	40.7	37.5	32.1	26.8	23.6	21.4	17.1	16.1	13.9
82.5°	36.4	28.9	25.7	21.4	17.1	16.1	13.9	10.7	9.6	8.6	7.5
85°	16.1	13.9	11.8	9.6	7.5	6.4	5.4	4.3	4.3	4.3	4.3
87.5°	5.4	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: P1214196

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0
2.5°	3605.5	3624.8	3643.0	3637.7	3618.4	3588.4	3579.9	3568.1	3576.6	3594.8	3602.3
5°	3631.2	3620.5	3659.1	3715.8	3807.9	3816.4	3880.7	3895.7	3947.0	3979.2	3978.1
7.5°	3667.6	3819.7	3882.8	3951.3	3982.4	3974.9	3984.5	3977.0	3965.2	3959.9	3953.5
10°	3852.8	3968.5	3992.0	3992.0	3943.8	3878.5	3850.7	3802.5	3706.2	3708.3	3692.3
12.5°	3961.0	4001.6	3946.0	3898.9	3705.1	3630.2	3548.8	3510.3	3487.8	3453.5	3466.4
15°	3904.2	3846.4	3813.2	3661.2	3542.4	3407.5	3409.6	3386.1	3361.5	3363.6	3347.6
17.5°	3820.7	3774.7	3539.2	3434.3	3376.5	3324.0	3314.4	3283.3	3267.3	3261.9	3260.8
20°	3706.2	3540.2	3364.7	3339.0	3269.4	3209.5	3199.8	3209.5	3258.7	3170.9	2873.3
22.5°	3572.4	3333.6	3282.2	3209.5	3162.3	3138.8	3197.7	2930.0	2525.4	2574.6	2522.2
25°	3345.4	3241.6	3153.8	3098.1	3092.8	2948.2	2456.9	2405.5	2145.3	2006.2	1849.9
27.5°	3179.5	3134.5	3042.4	3032.8	2963.2	2410.8	2155.0	1872.4	1768.5	1752.5	1718.2
30°	3078.8	3014.6	2958.9	2715.9	2364.8	1940.9	1728.9	1689.3	1671.1	1651.8	1621.9
32.5°	2957.9	2896.9	2923.6	2283.4	1885.2	1671.1	1628.3	1599.4	1566.2	1553.3	1445.2
35°	2834.8	2806.9	2284.5	1919.5	1620.8	1569.4	1537.3	1507.3	1199.0	290.1	98.5
37.5°	2703.1	2696.7	2053.3	1593.0	1518.0	1469.8	1378.8	284.8	67.4	46.0	34.3
40°	2600.3	2054.3	1622.9	1493.4	1432.4	1356.4	190.6	47.1	30.0	18.2	11.8
42.5°	2531.8	1847.7	1452.7	1401.3	1268.6	140.2	48.2	20.3	11.8	9.6	7.5
45°	1951.6	1459.1	1357.4	1303.9	160.6	48.2	27.8	9.6	7.5	6.4	4.3
47.5°	1800.6	1325.3	1265.4	284.8	53.5	25.7	19.3	6.4	4.3	4.3	4.3
50°	1363.9	1224.7	1007.4	69.6	34.3	18.2	13.9	4.3	4.3	4.3	3.2
52.5°	1195.8	1130.5	108.1	46.0	26.8	13.9	8.6	3.2	3.2	3.2	3.2
55°	1093.0	717.3	64.2	35.3	22.5	12.8	5.4	3.2	3.2	3.2	2.1
57.5°	999.9	96.3	47.1	30.0	20.3	11.8	3.2	3.2	3.2	3.2	2.1
60°	847.9	69.6	38.5	26.8	19.3	10.7	3.2	3.2	3.2	3.2	3.2
62.5°	110.3	54.6	33.2	23.6	13.9	8.6	2.1	3.2	3.2	3.2	3.2
65°	80.3	42.8	30.0	16.1	8.6	3.2	2.1	3.2	3.2	3.2	3.2
67.5°	62.1	35.3	22.5	13.9	7.5	2.1	2.1	3.2	3.2	3.2	3.2
70°	49.2	30.0	18.2	11.8	6.4	2.1	2.1	3.2	3.2	3.2	3.2
72.5°	38.5	21.4	12.8	6.4	4.3	2.1	2.1	3.2	3.2	3.2	3.2
75°	28.9	17.1	9.6	5.4	2.1	2.1	2.1	3.2	3.2	3.2	3.2
77.5°	19.3	10.7	7.5	4.3	4.3	4.3	5.4	5.4	3.2	3.2	3.2
80°	12.8	7.5	5.4	5.4	5.4	4.3	5.4	5.4	3.2	5.4	3.2
82.5°	6.4	5.4	5.4	4.3	4.3	3.2	4.3	4.3	4.3	4.3	3.2
85°	4.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.3	4.3	3.2
87.5°	2.1	2.1	2.1	2.1	3.2	3.2	3.2	3.2	4.3	4.3	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: P1214196

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0
2.5°	3592.7	3595.9	3587.3	3633.4	3609.8	3612.0	3621.6	3597.0	3602.3	3585.2	3573.4
5°	3982.4	3988.8	3995.2	3997.4	4001.6	4007.0	4000.6	3997.4	3990.9	3969.5	3947.0
7.5°	3921.4	3913.9	3910.7	3914.9	3922.4	3925.6	3920.3	3927.8	3955.6	3967.4	3974.9
10°	3600.2	3565.9	3589.5	3586.3	3559.5	3649.4	3624.8	3638.7	3648.4	3746.9	3806.8
12.5°	3447.1	3468.5	3427.8	3407.5	3434.3	3452.5	3470.7	3432.1	3485.6	3461.0	3540.2
15°	3318.6	3305.8	3301.5	3302.6	3297.2	3322.9	3329.4	3337.9	3345.4	3378.6	3391.4
17.5°	3260.8	3282.2	3290.8	3297.2	3286.5	3274.8	3263.0	3245.9	3251.2	3242.6	3267.3
20°	2673.1	2601.4	2597.1	2638.9	2592.8	2618.5	2680.6	3096.0	3082.1	3243.7	3189.1
22.5°	2231.0	2163.5	2105.7	2055.4	2127.1	2157.1	2272.7	2403.3	2615.3	2582.1	2812.3
25°	1822.0	1797.4	1782.4	1774.9	1780.3	1778.2	1803.8	1864.9	1961.2	2188.2	2481.5
27.5°	1704.3	1692.5	1687.2	1670.0	1682.9	1678.6	1698.9	1711.8	1740.7	1763.2	1858.4
30°	1611.1	1597.2	1587.6	1569.4	1582.2	1583.3	1589.7	1622.9	1634.7	1654.0	1683.9
32.5°	588.8	346.9	325.4	309.4	338.3	441.1	774.0	1353.2	1543.7	1558.7	1593.0
35°	57.8	48.2	42.8	42.8	43.9	48.2	64.2	169.1	309.4	1195.8	1496.6
37.5°	22.5	19.3	16.1	15.0	16.1	18.2	24.6	32.1	43.9	91.0	405.7
40°	9.6	8.6	7.5	7.5	7.5	7.5	8.6	10.7	16.1	30.0	47.1
42.5°	6.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	7.5	9.6	19.3
45°	4.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.3	5.4	8.6
47.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.3
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	6.4	6.4	4.3
75°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	5.4	6.4	5.4
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	5.4	5.4	5.4
80°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.3	4.3	4.3
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.3	4.3	4.3
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: P1214196

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0
2.5°	3553.1	3552.0	3574.5	3591.6	3585.2	3591.6	3599.1	3600.2	3602.3	3593.8	3590.6
5°	3904.2	3871.0	3806.8	3760.8	3707.2	3609.8	3561.7	3567.0	3568.1	3564.9	3569.2
7.5°	3971.7	3968.5	3946.0	3936.3	3899.9	3830.4	3719.0	3699.8	3652.7	3622.7	3598.1
10°	3802.5	3879.6	3899.9	3934.2	3955.6	3942.8	3848.6	3834.6	3804.7	3770.4	3777.9
12.5°	3619.5	3682.6	3685.8	3872.1	3913.9	3918.1	3881.7	3901.0	3905.3	3828.2	3783.3
15°	3394.7	3424.6	3487.8	3661.2	3787.5	3866.8	3890.3	3901.0	3848.6	3845.3	3827.1
17.5°	3296.2	3315.4	3344.3	3441.8	3633.4	3750.1	3849.6	3842.1	3862.5	3847.5	3801.5
20°	3172.0	3188.0	3239.4	3288.7	3382.9	3538.1	3724.4	3738.3	3765.1	3761.8	3774.7
22.5°	3169.8	3113.1	3121.7	3160.2	3258.7	3397.9	3595.9	3641.9	3659.1	3670.9	3684.8
25°	2514.7	2965.4	3047.8	3072.4	3136.7	3218.0	3451.4	3468.5	3500.6	3553.1	3591.6
27.5°	2178.5	2484.7	2814.4	2985.7	3026.4	3093.8	3233.0	3258.7	3367.9	3380.7	3440.7
30°	1719.3	1955.9	2448.3	2860.5	2927.9	2975.0	3073.5	3124.9	3172.0	3223.4	3286.5
32.5°	1617.6	1655.0	1928.0	2366.9	2891.5	2856.2	2929.0	2960.0	3011.4	3056.4	3102.4
35°	1524.4	1550.1	1607.9	1938.7	2355.2	2758.8	2808.0	2828.3	2857.2	2891.5	2924.7
37.5°	1427.0	1465.6	1505.2	1594.0	2178.5	2681.7	2680.6	2704.2	2721.3	2750.2	2778.0
40°	259.1	1345.7	1409.9	1467.7	1689.3	2138.9	2560.7	2571.4	2583.2	2601.4	2630.3
42.5°	41.8	224.8	1321.0	1376.7	1439.9	1915.2	2506.1	2462.2	2454.7	2467.6	2493.3
45°	21.4	54.6	265.5	1285.7	1342.4	1527.6	2049.0	2386.2	2378.7	2354.1	2359.5
47.5°	16.1	34.3	65.3	444.3	1256.8	1311.4	1890.6	1870.2	2012.6	2285.6	2243.8
50°	13.9	23.6	38.5	91.0	1110.1	1207.6	1455.9	1701.1	1776.0	1785.6	2113.2
52.5°	12.8	16.1	27.8	58.9	233.4	1116.6	1184.0	1269.6	1396.0	1666.8	1660.4
55°	11.8	15.0	23.6	39.6	81.4	1006.3	1075.9	1091.9	1118.7	1248.2	1419.5
57.5°	6.4	13.9	22.5	34.3	61.0	184.1	976.3	989.2	1010.6	1015.9	1077.0
60°	3.2	12.8	20.3	30.0	45.0	85.6	877.8	892.8	905.7	907.8	927.1
62.5°	2.1	11.8	17.1	27.8	37.5	61.0	207.7	423.9	806.1	806.1	828.6
65°	2.1	8.6	10.7	18.2	34.3	50.3	87.8	101.7	198.0	487.1	726.9
67.5°	2.1	3.2	9.6	15.0	25.7	38.5	64.2	74.9	89.9	102.8	190.6
70°	2.1	2.1	8.6	9.6	16.1	28.9	46.0	52.5	61.0	69.6	80.3
72.5°	2.1	2.1	7.5	7.5	10.7	19.3	35.3	38.5	43.9	49.2	56.7
75°	5.4	4.3	6.4	6.4	7.5	15.0	26.8	30.0	32.1	36.4	41.8
77.5°	5.4	5.4	5.4	5.4	5.4	9.6	17.1	19.3	22.5	24.6	28.9
80°	4.3	4.3	4.3	5.4	5.4	6.4	10.7	11.8	12.8	16.1	17.1
82.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	6.4	7.5	9.6
85°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.3	4.3	4.3	4.3
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: P1214196

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0	3567.0
2.5°	3589.5	3583.1	3577.7	3580.9	3571.3	3567.0	3570.2	3571.3	3573.4	3578.8	3579.9
5°	3579.9	3577.7	3587.3	3592.7	3590.6	3592.7	3592.7	3588.4	3582.0	3586.3	3576.6
7.5°	3573.4	3559.5	3548.8	3551.0	3540.2	3553.1	3564.9	3582.0	3587.3	3587.3	3576.6
10°	3683.7	3668.7	3608.8	3568.1	3541.3	3517.8	3573.4	3516.7	3543.5	3441.8	3558.4
12.5°	3774.7	3795.0	3768.3	3656.9	3637.7	3567.0	3607.7	3538.1	3517.8	3401.1	3438.5
15°	3811.1	3772.6	3764.0	3732.9	3691.2	3670.9	3561.7	3549.9	3516.7	3529.5	3480.3
17.5°	3779.0	3798.2	3772.6	3752.2	3709.4	3661.2	3595.9	3538.1	3492.1	3389.3	3476.0
20°	3747.9	3773.6	3696.5	3709.4	3713.7	3658.0	3623.7	3575.6	3517.8	3421.4	3346.5
22.5°	3696.5	3678.3	3684.8	3665.5	3649.4	3656.9	3609.8	3576.6	3479.2	3435.3	3333.6
25°	3613.0	3606.6	3623.7	3621.6	3583.1	3570.2	3546.7	3511.3	3472.8	3402.1	3318.6
27.5°	3477.1	3510.3	3540.2	3554.2	3533.8	3499.6	3486.7	3466.4	3439.6	3367.9	3305.8
30°	3333.6	3371.1	3405.4	3435.3	3453.5	3438.5	3426.8	3415.0	3374.3	3327.2	3257.6
32.5°	3169.8	3219.1	3266.2	3302.6	3342.2	3354.0	3345.4	3335.8	3301.5	3258.7	3203.0
35°	2980.4	3047.8	3116.3	3181.6	3198.7	3226.6	3254.4	3238.4	3220.2	3177.3	3126.0
37.5°	2819.8	2868.0	2917.2	2999.6	3059.6	3094.9	3144.1	3150.6	3119.5	3099.2	3031.7
40°	2653.8	2697.7	2769.5	2817.6	2900.1	2940.7	2993.2	3016.8	3009.3	2997.5	2938.6
42.5°	2523.2	2544.7	2591.8	2634.6	2715.9	2799.4	2845.5	2871.2	2897.9	2888.3	2858.3
45°	2384.1	2403.3	2419.4	2456.9	2536.1	2610.0	2666.7	2705.2	2753.4	2775.9	2739.5
47.5°	2246.0	2251.3	2270.6	2301.6	2348.7	2405.5	2500.8	2558.6	2603.5	2647.4	2623.9
50°	2140.0	2120.7	2123.9	2143.2	2181.7	2237.4	2305.9	2387.3	2438.7	2492.2	2497.5
52.5°	1870.2	2026.5	1989.0	1999.8	2020.1	2046.9	2118.6	2198.9	2262.0	2308.1	2354.1
55°	1569.4	1600.4	1901.3	1858.4	1871.3	1894.8	1928.0	2008.3	2069.3	2133.6	2197.8
57.5°	1217.2	1448.4	1460.2	1738.5	1732.1	1734.3	1762.1	1808.1	1869.1	1949.4	2004.0
60°	946.3	1043.8	1233.3	1329.6	1573.7	1582.2	1598.3	1625.1	1677.5	1753.5	1840.2
62.5°	835.0	847.9	915.3	1059.8	1218.3	1409.9	1444.1	1448.4	1472.0	1548.0	1648.6
65°	733.3	741.9	762.2	777.2	910.0	1095.2	1260.0	1286.8	1301.8	1346.7	1432.4
67.5°	505.3	639.1	657.3	668.0	680.9	766.5	971.0	1106.9	1124.1	1163.7	1238.6
70°	97.4	202.3	553.5	565.2	571.7	590.9	624.1	840.4	953.8	991.3	1025.6
72.5°	66.4	78.1	94.2	222.7	471.0	481.7	489.2	517.1	708.7	817.9	836.1
75°	48.2	53.5	63.2	78.1	96.3	313.7	388.6	402.5	416.4	574.9	666.9
77.5°	34.3	38.5	42.8	50.3	58.9	76.0	109.2	300.8	314.7	322.2	455.0
80°	19.3	23.6	28.9	33.2	37.5	42.8	55.7	69.6	155.2	227.0	238.7
82.5°	10.7	12.8	15.0	18.2	20.3	25.7	31.0	37.5	49.2	72.8	154.2
85°	5.4	5.4	5.4	7.5	8.6	11.8	13.9	16.1	22.5	31.0	42.8
87.5°	3.2	3.2	4.3	4.3	4.3	5.4	5.4	5.4	6.4	9.6	13.9
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: P1214196

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	3567.0	3567.0	3567.0	3567.0	3567.0
2.5°	3580.9	3577.7	3577.7	3590.6	3587.3
5°	3574.5	3571.3	3570.2	3584.1	3577.7
7.5°	3569.2	3557.4	3554.2	3567.0	3561.7
10°	3547.7	3539.2	3544.5	3540.2	3538.1
12.5°	3511.3	3506.0	3483.5	3485.6	3503.8
15°	3446.0	3467.5	3428.9	3463.2	3470.7
17.5°	3326.1	3374.3	3411.8	3432.1	3435.3
20°	3379.7	3395.7	3376.5	3377.5	3390.4
22.5°	3310.1	3317.6	3322.9	3316.5	3344.3
25°	3198.7	3169.8	3231.9	3244.8	3289.7
27.5°	3164.5	3140.9	3169.8	3167.7	3205.2
30°	3136.7	3060.6	3073.5	3093.8	3139.9
32.5°	3097.0	2977.1	2964.3	3009.3	3060.6
35°	3027.5	2914.0	2884.0	2912.9	2990.0
37.5°	2968.6	2826.2	2766.3	2804.8	2905.4
40°	2880.8	2757.7	2664.6	2698.8	2817.6
42.5°	2775.9	2698.8	2555.4	2578.9	2714.9
45°	2669.9	2601.4	2449.4	2461.2	2622.8
47.5°	2561.8	2498.6	2339.1	2341.3	2505.0
50°	2455.8	2372.3	2240.6	2203.2	2379.8
52.5°	2317.7	2240.6	2141.1	2080.0	2261.0
55°	2187.1	2100.4	2027.6	1933.4	2126.1
57.5°	2059.7	1963.4	1914.1	1793.1	1973.0
60°	1885.2	1839.2	1766.4	1650.8	1834.9
62.5°	1706.4	1691.4	1617.6	1497.7	1664.7
65°	1497.7	1533.0	1457.0	1354.2	1488.0
67.5°	1300.7	1363.9	1280.4	1217.2	1317.8
70°	1090.9	1163.7	1116.6	1094.1	1136.9
72.5°	884.3	954.9	959.2	943.1	957.1
75°	683.0	761.1	804.0	779.3	782.6
77.5°	518.1	555.6	602.7	622.0	617.7
80°	320.1	385.4	423.9	463.5	449.6
82.5°	161.7	216.2	263.4	306.2	285.8
85°	67.4	86.7	121.0	159.5	153.1
87.5°	20.3	34.3	36.4	51.4	48.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)