

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: P1213834

Luminaire Tested: 4SNLED-LD5-58SL-RM-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213834
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-LD5-58SL-RM-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

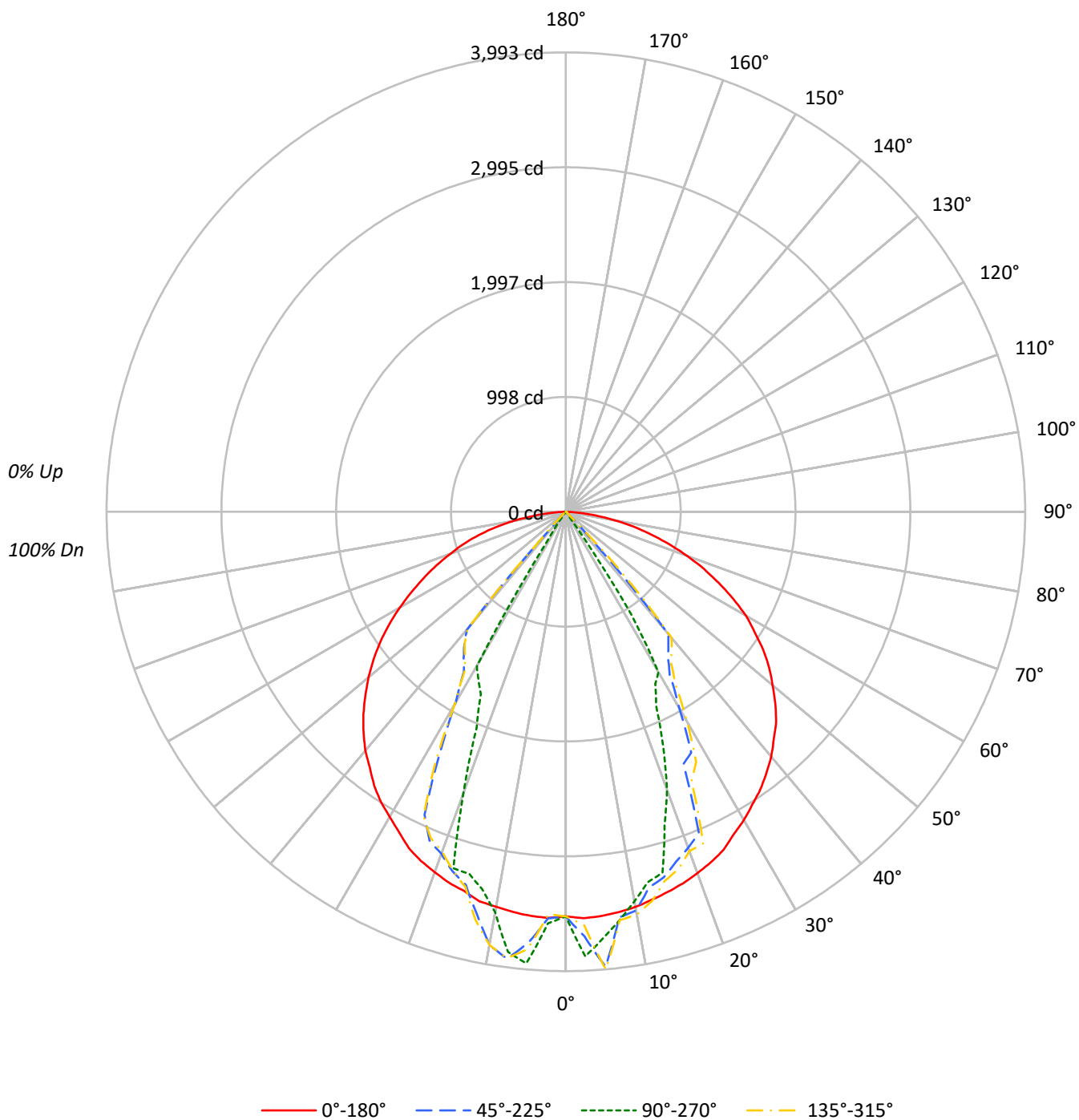
Lumens per Lamp: N/A
Luminaire Lumens: 5000.0 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 46
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: P1213834

CATALOG NUMBER: 4SNLED-LD5-58SL-RM-UNV-L940-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1213834

CATALOG NUMBER: 4SNLED-LD5-58SL-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°	28416	28416	28416	28416
5°	28532	29225	28524	30949
10°	28464	26446	28447	27209
15°	28386	24684	28316	24748
20°	28418	19442	28338	19682
25°	28501	14070	28362	13277
30°	28371	12343	28071	11865
35°	28455	272	28038	330
40°	28552	59	27870	59
45°	28654	35	27577	27
50°	28435	28	27130	28
55°	28267	19	26530	19
60°	27733	21	25565	21
65°	26287	34	24415	22
70°	24388	37	23215	37
75°	21570	42	21925	42
80°	17520	48	18524	48
85°	10309	56	10528	56

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 30938 cd/sqm

TEST NUMBER: P1213834

CATALOG NUMBER: 4SNLED-LD5-58SL-RM-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.8	7.1
10°-20°	962.3	19.2
20°-30°	1224.5	24.5
30°-40°	1034.4	20.7
40°-50°	676.2	13.5
50°-60°	426.1	8.5
60°-70°	226.8	4.5
70°-80°	82.7	1.7
80°-90°	14.2	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2539.6	50.8
0°-40°	3573.9	71.5
0°-60°	4676.3	93.5
0°-90°	5000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5000.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3516	3516	3516	3516	3516	
5°	3527	3721	3526	3941	3527	335
15°	3421	3247	3413	3256	3421	967
25°	3243	1854	3227	1750	3243	1491
35°	2948	35	2904	42	2948	1844
45°	2586	4	2488	3	2586	1988
55°	2096	2	1967	2	2096	1867
65°	1467	3	1362	2	1467	1453
75°	771	3	784	3	771	819
85°	151	3	154	3	151	191
90°	0	0	0	0	0	

TEST NUMBER: P1213834

CATALOG NUMBER: 4SNLED-LD5-58SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4
2.5°	3536.4	3538.5	3539.6	3541.7	3544.9	3545.9	3548.0	3545.9	3545.9	3545.9	3545.9
5°	3526.9	3531.1	3534.3	3538.5	3545.9	3547.0	3555.4	3556.5	3560.7	3569.1	3575.5
7.5°	3511.1	3515.3	3521.7	3532.2	3542.8	3554.4	3569.1	3585.0	3607.1	3628.2	3654.6
10°	3487.9	3493.2	3500.5	3510.0	3561.8	3569.1	3601.9	3647.2	3659.9	3726.4	3776.0
12.5°	3454.1	3472.0	3491.0	3499.5	3549.1	3627.2	3736.9	3714.8	3690.5	3907.9	3904.7
15°	3421.4	3445.7	3436.2	3504.8	3550.1	3686.3	3639.8	3739.0	3920.6	3876.2	3878.4
17.5°	3386.6	3391.8	3444.6	3501.6	3582.9	3652.5	3709.5	3845.6	3881.5	3884.7	3845.6
20°	3342.2	3367.6	3444.6	3496.3	3633.5	3666.2	3789.7	3859.4	3844.6	3808.7	3742.2
22.5°	3296.9	3373.9	3452.0	3524.8	3620.9	3708.4	3769.7	3802.4	3725.3	3583.9	3507.9
25°	3243.0	3288.4	3390.8	3497.4	3617.7	3668.3	3704.2	3651.5	3551.2	3424.6	3296.9
27.5°	3159.7	3232.5	3363.4	3483.7	3592.4	3653.6	3595.5	3468.9	3307.4	3224.0	3166.0
30°	3095.3	3190.3	3297.9	3414.0	3526.9	3562.8	3415.1	3270.5	3159.7	3076.3	3063.6
32.5°	3017.2	3152.3	3254.7	3365.5	3460.4	3413.0	3269.4	3082.6	2990.8	2959.2	2971.8
35°	2947.5	3049.9	3183.9	3292.6	3361.2	3254.7	3027.8	2911.7	2867.3	2885.3	2862.1
37.5°	2864.2	2999.3	3122.7	3216.7	3193.4	3033.0	2841.0	2767.1	2772.4	2757.6	2713.3
40°	2777.6	2906.4	3035.1	3123.8	3042.5	2797.7	2670.0	2654.2	2657.3	2609.8	2546.5
42.5°	2676.3	2793.5	2922.2	3002.4	2827.2	2636.2	2549.7	2551.8	2524.4	2457.9	2424.1
45°	2585.6	2693.2	2827.2	2834.6	2619.3	2460.0	2434.7	2407.2	2346.0	2323.8	2298.5
47.5°	2469.5	2588.7	2699.5	2659.4	2415.7	2316.5	2297.5	2237.3	2206.7	2189.8	2168.7
50°	2346.0	2466.3	2567.6	2453.7	2223.6	2200.4	2138.1	2090.6	2069.5	2051.6	2032.6
52.5°	2228.9	2328.1	2431.5	2235.2	2075.8	2053.7	1983.0	1955.5	1934.4	1914.4	1910.2
55°	2095.9	2183.5	2254.2	2027.3	1934.4	1882.7	1832.1	1813.1	1793.0	1783.5	1799.3
57.5°	1945.0	2044.2	2033.6	1822.6	1781.4	1706.5	1687.5	1674.8	1660.0	1666.4	1534.5
60°	1808.8	1884.8	1833.1	1672.7	1603.1	1552.4	1535.5	1527.1	1535.5	1406.8	1236.9
62.5°	1641.0	1726.5	1622.0	1497.5	1423.6	1399.4	1384.6	1396.2	1272.7	1131.3	1090.2
65°	1466.9	1559.8	1405.7	1309.7	1263.2	1242.1	1241.1	1142.9	1021.6	966.7	966.7
67.5°	1299.1	1395.2	1196.7	1116.5	1098.6	1100.7	1039.5	890.7	856.9	820.0	713.4
70°	1120.8	1205.2	988.8	940.3	929.7	922.4	773.6	733.5	693.4	595.2	586.8
72.5°	943.5	984.6	794.7	783.1	780.9	649.0	619.5	550.9	504.4	492.8	487.6
75°	771.4	758.8	627.9	638.5	538.2	491.8	444.3	404.2	397.9	393.6	98.1
77.5°	608.9	545.6	495.0	430.6	385.2	327.2	317.7	311.3	204.7	73.9	60.2
80°	443.2	353.5	329.3	279.7	238.5	229.0	234.3	71.8	57.0	47.5	41.2
82.5°	281.8	225.8	184.7	161.5	157.2	68.6	50.7	41.2	35.9	30.6	25.3
85°	150.9	100.3	92.9	78.1	46.4	31.7	26.4	20.1	16.9	13.7	12.7
87.5°	47.5	40.1	32.7	26.4	15.8	10.6	8.4	7.4	6.3	5.3	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213834

CATALOG NUMBER: 4SNLED-LD5-58SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4
2.5°	3543.8	3545.9	3544.9	3548.0	3548.0	3552.3	3555.4	3558.6	3564.9	3568.1	3592.4
5°	3589.2	3594.5	3610.3	3625.1	3643.0	3648.3	3678.9	3686.3	3722.2	3726.4	3844.6
7.5°	3690.5	3710.6	3748.5	3786.5	3824.5	3848.8	3891.0	3917.4	3945.9	3971.2	4065.1
10°	3812.9	3846.7	3883.6	3921.6	3943.8	3990.2	4015.5	4019.8	4012.4	3971.2	3819.3
12.5°	3933.2	3967.0	3951.2	3958.6	3984.9	3902.6	3914.2	3855.1	3896.3	3692.6	3541.7
15°	3916.3	3914.2	3875.2	3748.5	3769.7	3612.4	3549.1	3500.5	3539.6	3518.5	3495.3
17.5°	3865.7	3769.7	3702.1	3550.1	3485.8	3441.4	3442.5	3443.6	3424.6	3444.6	3385.5
20°	3651.5	3543.8	3443.6	3389.7	3370.7	3339.1	3354.9	3339.1	3340.1	3346.5	3255.7
22.5°	3366.5	3333.8	3275.8	3292.6	3286.3	3314.8	3293.7	3261.0	3271.5	3224.0	3155.4
25°	3251.5	3213.5	3211.4	3217.7	3208.2	3195.6	3176.6	3127.0	3123.8	3109.0	3077.4
27.5°	3135.4	3137.5	3143.8	3124.8	3091.1	3065.7	3037.3	3013.0	3022.5	3005.6	2962.3
30°	3055.2	3054.1	3016.1	2999.3	2937.0	2938.1	2930.7	2915.9	2906.4	2907.4	2880.0
32.5°	2941.2	2908.5	2865.2	2844.1	2838.8	2819.9	2805.1	2808.2	2815.6	2789.2	2817.7
35°	2824.1	2756.5	2750.2	2732.3	2715.4	2702.7	2708.0	2686.9	2685.8	2682.7	2450.5
37.5°	2666.8	2634.1	2630.9	2612.0	2600.3	2597.2	2577.1	2580.3	2589.8	2606.7	2089.6
40°	2537.0	2507.5	2500.1	2499.0	2473.7	2471.6	2476.9	2496.9	2510.6	2405.1	1991.4
42.5°	2397.7	2399.8	2376.6	2361.8	2365.0	2374.5	2399.8	2330.2	2018.9	1923.9	1820.5
45°	2278.5	2267.9	2255.2	2251.0	2278.5	2259.5	1980.9	1827.8	1790.9	1786.7	1496.5
47.5°	2153.9	2150.8	2145.5	2148.7	1992.5	1776.1	1712.8	1692.8	1699.1	1694.9	1285.4
50°	2028.4	2032.6	2032.6	1775.1	1629.4	1593.6	1598.8	1616.8	1504.9	1404.6	1197.8
52.5°	1919.7	1886.9	1616.8	1523.9	1491.2	1507.0	1469.0	1328.7	1227.4	1168.3	1108.1
55°	1718.1	1477.5	1417.3	1402.5	1414.1	1273.8	1187.3	1096.5	1070.1	1063.8	1029.0
57.5°	1351.9	1303.3	1308.6	1249.5	1115.5	1036.3	1001.5	988.8	977.2	968.8	84.4
60°	1195.7	1209.4	1107.0	980.4	926.6	916.0	907.6	896.0	893.9	879.1	53.8
62.5°	1094.4	962.5	873.8	842.2	829.5	826.3	810.5	805.2	683.9	93.9	40.1
65°	825.3	771.4	754.6	747.2	733.5	733.5	608.9	96.0	78.1	67.5	35.9
67.5°	673.3	669.1	660.6	651.1	443.2	92.9	81.3	70.7	61.2	53.8	31.7
70°	569.9	567.8	517.1	95.0	79.2	69.7	61.2	54.9	50.7	45.4	28.5
72.5°	467.5	95.0	80.2	69.7	60.2	54.9	49.6	44.3	40.1	36.9	23.2
75°	72.8	64.4	57.0	51.7	47.5	42.2	38.0	34.8	33.8	29.5	15.8
77.5°	52.8	45.4	41.2	36.9	32.7	29.5	25.3	22.2	20.1	16.9	11.6
80°	36.9	32.7	29.5	24.3	21.1	17.9	15.8	13.7	12.7	10.6	5.3
82.5°	21.1	17.9	15.8	12.7	11.6	9.5	8.4	7.4	7.4	5.3	5.3
85°	9.5	9.5	7.4	6.3	5.3	5.3	5.3	4.2	4.2	3.2	3.2
87.5°	4.2	4.2	4.2	4.2	4.2	3.2	3.2	3.2	3.2	3.2	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213834

CATALOG NUMBER: 4SNLED-LD5-58SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4
2.5°	3626.1	3639.8	3666.2	3693.7	3663.1	3772.8	3764.4	3801.3	3821.4	3830.9	3853.0
5°	3949.1	4010.3	4030.3	3970.2	3935.3	3899.5	3818.2	3757.0	3764.4	3744.3	3671.5
7.5°	3942.7	3811.9	3635.6	3555.4	3549.1	3539.6	3564.9	3579.7	3581.8	3580.7	3578.6
10°	3609.2	3541.7	3530.1	3519.5	3523.8	3484.7	3466.8	3416.1	3443.6	3428.8	3434.1
12.5°	3507.9	3492.1	3429.8	3343.3	3395.0	3356.0	3333.8	3348.6	3331.7	3315.9	3310.6
15°	3447.8	3345.4	3310.6	3289.5	3274.7	3266.3	3273.6	3256.8	3251.5	3248.3	3255.7
17.5°	3323.2	3282.1	3244.1	3188.2	3189.2	3186.1	3207.2	3238.8	3240.9	3078.4	2931.7
20°	3225.1	3191.3	3142.8	3108.0	3155.4	3071.0	2744.9	2589.8	2565.5	2565.5	2569.7
22.5°	3147.0	3072.1	3075.2	3020.4	2576.1	2485.3	2487.4	2496.9	2453.7	2305.9	2290.1
25°	3040.4	3028.8	2797.7	2417.8	2420.9	2350.2	2241.5	2088.5	1922.8	1922.8	1895.4
27.5°	2960.2	2714.3	2376.6	2360.8	2123.3	1973.5	1880.6	1740.2	1721.3	1703.3	1705.4
30°	2891.6	2296.4	2304.9	1973.5	1798.3	1673.8	1666.4	1643.2	1631.5	1628.4	1616.8
32.5°	2285.9	2236.3	1929.2	1680.1	1611.5	1591.4	1581.9	1555.6	1554.5	1534.5	1395.2
35°	2143.4	1962.9	1614.7	1547.1	1527.1	1508.1	1492.2	1001.5	118.2	47.5	41.2
37.5°	1980.9	1640.0	1493.3	1462.7	1443.7	1066.9	106.6	36.9	26.4	19.0	16.9
40°	1679.0	1464.8	1418.4	1384.6	570.9	36.9	23.2	17.9	10.6	9.5	8.4
42.5°	1416.3	1380.4	1330.8	405.2	42.2	17.9	11.6	8.4	7.4	7.4	6.3
45°	1325.5	1293.8	536.1	40.1	26.4	8.4	7.4	7.4	6.3	4.2	4.2
47.5°	1241.1	1092.3	48.5	25.3	16.9	7.4	6.3	4.2	4.2	4.2	3.2
50°	1151.4	60.2	33.8	19.0	10.6	4.2	4.2	4.2	4.2	3.2	3.2
52.5°	215.3	42.2	27.4	16.9	5.3	4.2	4.2	4.2	3.2	3.2	3.2
55°	50.7	33.8	25.3	14.8	4.2	4.2	4.2	3.2	3.2	3.2	2.1
57.5°	38.0	25.3	20.1	13.7	4.2	3.2	3.2	3.2	3.2	3.2	2.1
60°	31.7	17.9	15.8	12.7	3.2	3.2	3.2	3.2	3.2	3.2	2.1
62.5°	22.2	14.8	11.6	9.5	3.2	3.2	3.2	3.2	3.2	3.2	3.2
65°	17.9	11.6	9.5	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
67.5°	15.8	9.5	6.3	2.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2
70°	12.7	3.2	3.2	2.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2
72.5°	10.6	3.2	2.1	2.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2
75°	10.6	5.3	2.1	2.1	3.2	3.2	4.2	4.2	3.2	3.2	3.2
77.5°	7.4	5.3	2.1	2.1	3.2	3.2	4.2	4.2	3.2	3.2	3.2
80°	4.2	5.3	2.1	3.2	3.2	6.3	7.4	4.2	3.2	3.2	3.2
82.5°	4.2	5.3	6.3	6.3	3.2	5.3	6.3	5.3	4.2	3.2	3.2
85°	4.2	3.2	4.2	5.3	3.2	5.3	5.3	4.2	4.2	3.2	3.2
87.5°	2.1	3.2	3.2	4.2	4.2	4.2	5.3	4.2	4.2	4.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213834

CATALOG NUMBER: 4SNLED-LD5-58SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4
2.5°	3863.6	3867.8	3801.3	3778.1	3798.1	3793.9	3776.0	3709.5	3702.1	3657.8	3593.4
5°	3692.6	3721.1	3686.3	3746.4	3717.9	3746.4	3833.0	3873.1	3938.5	3978.6	3993.4
7.5°	3573.4	3579.7	3579.7	3585.0	3590.2	3591.3	3585.0	3580.7	3562.8	3540.6	3580.7
10°	3428.8	3436.2	3448.8	3446.7	3445.7	3467.8	3473.1	3518.5	3516.4	3524.8	3555.4
12.5°	3353.9	3296.9	3348.6	3334.9	3353.9	3324.3	3379.2	3369.7	3372.8	3398.2	3463.6
15°	3229.3	3247.3	3259.9	3259.9	3267.3	3261.0	3254.7	3297.9	3324.3	3325.4	3321.1
17.5°	2989.8	2853.6	2992.9	2957.0	3243.0	3250.4	3226.2	3206.1	3206.1	3221.9	3255.7
20°	2566.6	2569.7	2570.8	2584.5	2601.4	2600.3	2601.4	3017.2	3214.5	3169.2	3138.6
22.5°	2250.0	2210.9	2283.7	2278.5	2369.2	2469.5	2565.5	2556.0	2562.4	2855.7	3119.6
25°	1803.6	1854.2	1813.1	1831.0	1933.4	2052.6	2126.5	2319.6	2529.6	2514.9	2583.5
27.5°	1698.0	1684.3	1703.3	1703.3	1717.0	1732.9	1774.0	1882.7	2069.5	2265.8	2451.5
30°	1597.8	1609.4	1611.5	1630.5	1641.0	1651.6	1657.9	1699.1	1741.3	1877.4	2106.4
32.5°	1199.9	1052.2	1384.6	1474.3	1550.3	1568.2	1580.9	1597.8	1628.4	1648.4	1763.5
35°	34.8	34.8	36.9	42.2	53.8	363.0	1382.5	1523.9	1544.0	1569.3	1590.4
37.5°	16.9	12.7	14.8	15.8	19.0	26.4	38.0	118.2	1316.0	1488.0	1511.2
40°	7.4	7.4	7.4	7.4	8.4	10.6	15.8	26.4	40.1	1058.5	1427.9
42.5°	6.3	6.3	6.3	6.3	6.3	6.3	7.4	9.5	19.0	45.4	749.3
45°	4.2	4.2	3.2	4.2	4.2	5.3	6.3	6.3	8.4	28.5	51.7
47.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	5.3	6.3	19.0	27.4
50°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	14.8	19.0
52.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	6.3	16.9
55°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2	4.2	14.8
57.5°	2.1	2.1	2.1	2.1	2.1	3.2	2.1	2.1	3.2	3.2	13.7
60°	2.1	2.1	2.1	2.1	2.1	3.2	3.2	3.2	3.2	3.2	12.7
62.5°	3.2	3.2	2.1	3.2	2.1	2.1	3.2	3.2	3.2	3.2	8.4
65°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.1	3.2
67.5°	3.2	3.2	3.2	3.2	2.1	3.2	2.1	3.2	3.2	2.1	2.1
70°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.1	2.1	2.1	2.1
72.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.1	2.1	2.1	2.1
75°	3.2	3.2	3.2	3.2	3.2	3.2	4.2	4.2	2.1	2.1	2.1
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	5.3	6.3	5.3	5.3	2.1
80°	3.2	3.2	3.2	3.2	3.2	3.2	5.3	5.3	5.3	5.3	7.4
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	4.2	4.2	4.2	4.2	5.3
85°	3.2	3.2	3.2	3.2	3.2	3.2	4.2	4.2	4.2	3.2	4.2
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.2	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213834

CATALOG NUMBER: 4SNLED-LD5-58SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4
2.5°	3598.7	3562.8	3551.2	3526.9	3524.8	3526.9	3521.7	3514.3	3518.5	3511.1	3504.8
5°	4001.8	3905.8	3843.5	3760.2	3645.1	3619.8	3613.5	3577.6	3564.9	3560.7	3543.8
7.5°	3675.7	3850.9	3956.4	3992.3	3857.2	3825.6	3788.7	3759.1	3730.6	3676.8	3644.1
10°	3531.1	3539.6	3640.9	3759.1	3951.2	3977.6	3997.6	3933.2	3915.3	3778.1	3748.5
12.5°	3497.4	3498.4	3510.0	3581.8	3732.7	3749.6	3820.3	3858.3	3904.7	3931.1	3910.0
15°	3343.3	3428.8	3492.1	3498.4	3512.2	3541.7	3562.8	3694.7	3750.7	3900.5	3892.1
17.5°	3271.5	3299.0	3390.8	3465.7	3453.1	3442.5	3459.4	3477.3	3531.1	3681.0	3678.9
20°	3152.3	3239.9	3289.5	3367.6	3438.3	3441.4	3422.4	3411.9	3390.8	3415.1	3437.2
22.5°	3101.6	3115.3	3208.2	3263.1	3343.3	3371.8	3376.0	3377.1	3365.5	3352.8	3346.5
25°	3096.4	3053.1	3100.6	3169.2	3228.3	3258.9	3293.7	3305.3	3301.1	3301.1	3294.8
27.5°	2533.9	3039.4	3014.0	3059.4	3131.2	3152.3	3170.2	3206.1	3228.3	3244.1	3251.5
30°	2413.5	2504.3	2946.5	2952.8	3025.6	3023.5	3043.6	3073.1	3101.6	3138.6	3148.1
32.5°	2134.9	2357.6	2697.4	2846.2	2922.2	2929.6	2940.2	2948.6	2975.0	3016.1	3052.0
35°	1710.7	2147.6	2311.2	2795.6	2809.3	2824.1	2830.4	2850.5	2858.9	2875.8	2907.4
37.5°	1548.2	1775.1	2217.3	2417.8	2679.5	2692.2	2725.9	2734.4	2748.1	2761.8	2786.1
40°	1454.3	1516.5	1845.8	2159.2	2575.0	2583.5	2595.1	2616.2	2617.2	2633.1	2655.2
42.5°	1379.3	1419.4	1515.5	2062.1	2501.1	2500.1	2472.6	2486.4	2492.7	2509.6	2540.2
45°	1101.8	1331.8	1393.0	1684.3	1991.4	2134.9	2410.4	2365.0	2363.9	2370.3	2403.0
47.5°	55.9	1252.7	1296.0	1389.9	1880.6	1885.9	1921.8	2223.6	2270.0	2255.2	2258.4
50°	38.0	86.5	1207.3	1250.6	1621.0	1751.9	1778.2	1792.0	1966.1	2160.3	2128.6
52.5°	29.5	49.6	739.8	1160.9	1317.1	1413.1	1583.0	1680.1	1690.6	1768.7	2033.6
55°	26.4	38.0	80.2	1071.2	1119.7	1140.8	1240.0	1409.9	1547.1	1588.3	1591.4
57.5°	23.2	34.8	54.9	484.4	1018.4	1022.6	1039.5	1098.6	1222.1	1335.0	1462.7
60°	21.1	30.6	43.3	83.4	925.5	936.1	939.2	955.1	969.9	1046.9	1193.6
62.5°	12.7	24.3	38.0	60.2	732.4	841.1	840.0	850.6	864.3	872.8	902.3
65°	10.6	19.0	32.7	50.7	89.7	111.9	679.6	755.6	764.1	775.7	780.9
67.5°	9.5	16.9	24.3	40.1	67.5	77.0	88.6	109.8	599.4	675.4	686.0
70°	8.4	11.6	20.1	33.8	54.9	59.1	66.5	76.0	89.7	110.8	542.4
72.5°	5.3	8.4	13.7	24.3	42.2	47.5	51.7	58.0	64.4	77.0	88.6
75°	2.1	6.3	11.6	17.9	32.7	35.9	39.0	43.3	48.5	57.0	63.3
77.5°	2.1	5.3	9.5	12.7	21.1	24.3	28.5	31.7	35.9	40.1	46.4
80°	7.4	4.2	6.3	9.5	14.8	15.8	17.9	20.1	23.2	26.4	30.6
82.5°	5.3	6.3	7.4	6.3	7.4	9.5	10.6	12.7	13.7	15.8	16.9
85°	4.2	4.2	5.3	5.3	5.3	5.3	5.3	5.3	6.3	7.4	9.5
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213834

CATALOG NUMBER: 4SNLED-LD5-58SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4
2.5°	3504.8	3502.7	3496.3	3496.3	3495.3	3499.5	3502.7	3505.8	3504.8	3511.1	3504.8
5°	3531.1	3525.9	3516.4	3507.9	3504.8	3506.9	3503.7	3506.9	3502.7	3507.9	3498.4
7.5°	3604.0	3586.0	3549.1	3534.3	3515.3	3514.3	3504.8	3502.7	3496.3	3496.3	3484.7
10°	3732.7	3646.2	3635.6	3591.3	3575.5	3498.4	3515.3	3486.8	3483.7	3469.9	3464.7
12.5°	3838.3	3770.7	3750.7	3711.6	3667.3	3511.1	3545.9	3484.7	3481.5	3454.1	3425.6
15°	3840.4	3879.4	3824.5	3716.9	3707.4	3599.7	3529.0	3507.9	3480.5	3398.2	3411.9
17.5°	3716.9	3806.6	3833.0	3809.8	3742.2	3669.4	3570.2	3528.0	3445.7	3408.7	3383.4
20°	3516.4	3607.1	3720.1	3727.4	3769.7	3717.9	3588.1	3519.5	3420.3	3356.0	3334.9
22.5°	3357.0	3423.5	3553.3	3613.5	3665.2	3683.1	3600.8	3499.5	3376.0	3313.7	3301.1
25°	3272.6	3287.4	3326.4	3397.1	3511.1	3593.4	3605.0	3497.4	3433.0	3296.9	3225.1
27.5°	3242.0	3229.3	3213.5	3249.4	3334.9	3435.1	3501.6	3519.5	3359.1	3229.3	3157.6
30°	3163.9	3171.3	3147.0	3134.3	3190.3	3293.7	3411.9	3441.4	3318.0	3183.9	3101.6
32.5°	3067.9	3080.5	3084.7	3062.6	3051.0	3122.7	3250.4	3321.1	3314.8	3119.6	3027.8
35°	2947.5	2983.4	2992.9	2994.0	2975.0	2963.4	3037.3	3183.9	3239.9	3090.0	2957.0
37.5°	2820.9	2831.5	2883.2	2896.9	2896.9	2862.1	2916.9	3034.1	3112.2	3023.5	2870.5
40°	2662.6	2696.4	2744.9	2769.2	2793.5	2796.6	2766.0	2848.3	2977.1	2954.9	2789.2
42.5°	2547.6	2569.7	2599.3	2632.0	2681.6	2694.3	2662.6	2677.4	2811.4	2869.5	2683.7
45°	2413.5	2443.1	2451.5	2487.4	2539.1	2576.1	2575.0	2544.4	2652.1	2723.8	2606.7
47.5°	2276.4	2304.9	2319.6	2337.6	2375.6	2423.0	2449.4	2435.7	2456.8	2597.2	2504.3
50°	2134.9	2150.8	2180.3	2200.4	2225.7	2253.1	2316.5	2329.1	2299.6	2411.4	2391.4
52.5°	2000.9	2006.2	2026.2	2046.3	2080.1	2100.1	2150.8	2188.8	2186.7	2219.4	2265.8
55°	1896.4	1873.2	1877.4	1893.3	1915.4	1946.0	1974.5	2033.6	2053.7	2060.0	2133.9
57.5°	1481.7	1720.2	1741.3	1740.2	1766.6	1780.3	1806.7	1845.8	1917.5	1901.7	1984.0
60°	1346.6	1373.0	1572.4	1595.7	1605.2	1617.8	1649.5	1685.4	1738.1	1771.9	1807.8
62.5°	1026.8	1187.3	1247.4	1423.6	1451.1	1458.5	1479.6	1496.5	1551.3	1628.4	1613.6
65°	794.7	863.3	1046.9	1118.7	1268.5	1287.5	1317.1	1335.0	1350.8	1439.5	1443.7
67.5°	687.0	697.6	747.2	885.4	980.4	1127.1	1145.0	1160.9	1185.1	1248.5	1287.5
70°	586.8	599.4	613.1	624.8	748.2	845.3	981.5	986.7	1002.6	1044.8	1133.4
72.5°	110.8	501.3	509.7	517.1	530.8	595.2	725.0	830.5	836.9	856.9	938.2
75°	74.9	87.6	120.3	413.7	427.4	431.6	453.8	585.7	682.8	687.0	722.9
77.5°	53.8	60.2	72.8	86.5	220.6	331.4	336.7	360.9	461.2	534.0	540.3
80°	36.9	41.2	48.5	54.9	67.5	88.6	244.8	252.2	264.9	365.1	384.1
82.5°	21.1	24.3	28.5	34.8	40.1	50.7	65.4	84.4	172.0	183.6	243.8
85°	10.6	11.6	13.7	16.9	20.1	24.3	32.7	40.1	54.9	99.2	102.4
87.5°	5.3	5.3	5.3	5.3	8.4	9.5	11.6	14.8	19.0	28.5	36.9
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: P1213834

CATALOG NUMBER: 4SNLED-LD5-58SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4
2.5°	3505.8	3520.6	3533.3	3536.4	3536.4	3538.5	3541.7	3543.8	3545.9	3548.0	3545.9
5°	3499.5	3515.3	3525.9	3529.0	3529.0	3535.4	3540.6	3547.0	3550.1	3550.1	3548.0
7.5°	3483.7	3495.3	3509.0	3517.4	3518.5	3529.0	3538.5	3537.5	3541.7	3543.8	3549.1
10°	3462.6	3462.6	3485.8	3492.1	3497.4	3509.0	3512.2	3518.5	3533.3	3535.4	3549.1
12.5°	3452.0	3441.4	3468.9	3472.0	3490.0	3475.2	3494.2	3500.5	3485.8	3505.8	3479.4
15°	3404.5	3417.2	3413.0	3422.4	3454.1	3437.2	3488.9	3472.0	3510.0	3464.7	3544.9
17.5°	3365.5	3363.4	3380.2	3388.7	3395.0	3430.9	3444.6	3463.6	3478.4	3465.7	3497.4
20°	3337.0	3320.1	3332.7	3342.2	3364.4	3391.8	3400.3	3371.8	3421.4	3505.8	3525.9
22.5°	3283.1	3271.5	3286.3	3286.3	3320.1	3315.9	3347.5	3329.6	3376.0	3474.2	3576.5
25°	3210.3	3211.4	3227.2	3246.2	3252.5	3300.0	3316.9	3340.1	3398.2	3515.3	3577.6
27.5°	3136.5	3130.1	3139.6	3178.7	3211.4	3246.2	3251.5	3330.6	3409.8	3490.0	3544.9
30°	3062.6	3056.2	3062.6	3091.1	3130.1	3153.3	3211.4	3316.9	3390.8	3445.7	3497.4
32.5°	2983.4	2977.1	2991.9	3013.0	3081.6	3084.7	3199.8	3299.0	3357.0	3397.1	3387.6
35°	2899.0	2890.6	2904.3	2937.0	3000.3	3023.5	3143.8	3217.7	3283.1	3302.1	3257.8
37.5°	2797.7	2782.9	2799.8	2845.2	2911.7	2979.2	3079.5	3164.9	3199.8	3149.1	3096.4
40°	2692.2	2681.6	2711.2	2734.4	2812.5	2906.4	3021.4	3081.6	3059.4	3001.4	2943.3
42.5°	2598.2	2576.1	2602.5	2646.8	2735.4	2842.0	2934.9	2968.7	2915.9	2830.4	2762.9
45°	2483.2	2456.8	2488.5	2547.6	2642.6	2763.9	2836.7	2825.1	2735.4	2661.6	2568.7
47.5°	2362.9	2331.2	2362.9	2433.6	2540.2	2668.9	2721.7	2668.9	2556.0	2463.2	2388.2
50°	2244.7	2207.8	2238.4	2345.0	2449.4	2548.6	2547.6	2445.2	2377.7	2276.4	2210.9
52.5°	2127.6	2074.8	2105.4	2221.5	2326.0	2438.9	2355.5	2260.5	2179.3	2090.6	2069.5
55°	1983.0	1926.0	1967.1	2136.0	2216.2	2282.7	2149.7	2066.3	1986.1	1941.8	1915.4
57.5°	1845.8	1783.5	1819.4	2018.9	2078.0	2094.8	1972.4	1854.2	1806.7	1792.0	1754.0
60°	1704.4	1633.7	1667.4	1897.5	1938.6	1870.1	1749.7	1657.9	1648.4	1618.9	1589.3
62.5°	1569.3	1491.2	1512.3	1746.6	1765.6	1641.0	1530.2	1506.0	1482.7	1453.2	1437.4
65°	1414.1	1332.9	1362.4	1586.2	1568.2	1407.8	1345.6	1340.3	1309.7	1285.4	1308.6
67.5°	1271.7	1175.6	1216.8	1411.0	1329.7	1198.9	1173.5	1160.9	1136.6	1150.3	906.5
70°	1115.5	1011.0	1066.9	1222.1	1101.8	1015.2	1005.7	986.7	987.8	785.2	661.7
72.5°	941.4	850.6	931.9	1015.2	871.7	846.4	832.7	830.5	670.1	544.6	513.9
75°	788.3	696.5	784.1	815.8	694.4	677.5	676.5	559.3	440.1	420.0	410.5
77.5°	615.3	544.6	627.9	580.4	532.9	513.9	461.2	346.1	331.4	317.7	119.3
80°	414.7	420.0	468.6	400.0	379.9	324.0	255.4	244.8	211.1	84.4	66.5
82.5°	252.2	316.6	298.7	250.1	244.8	176.2	161.5	82.3	61.2	48.5	42.2
85°	130.9	160.4	154.1	136.1	101.3	90.8	50.7	39.0	31.7	24.3	20.1
87.5°	44.3	59.1	57.0	45.4	34.8	27.4	17.9	14.8	10.6	8.4	7.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213834

CATALOG NUMBER: 4SNLED-LD5-58SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4
2.5°	3543.8	3543.8	3541.7	3543.8	3544.9	3542.8	3542.8	3544.9	3545.9	3547.0	3552.3
5°	3549.1	3551.2	3554.4	3560.7	3561.8	3574.4	3579.7	3582.9	3586.0	3587.1	3579.7
7.5°	3560.7	3568.1	3574.4	3573.4	3566.0	3545.9	3539.6	3534.3	3543.8	3568.1	3596.6
10°	3571.3	3537.5	3474.2	3560.7	3534.3	3558.6	3630.4	3646.2	3694.7	3763.3	3783.4
12.5°	3498.4	3591.3	3611.4	3514.3	3693.7	3627.2	3706.3	3776.0	3796.0	3865.7	3823.5
15°	3576.5	3621.9	3652.5	3749.6	3739.0	3796.0	3818.2	3804.5	3807.6	3825.6	3873.1
17.5°	3575.5	3666.2	3686.3	3751.7	3796.0	3797.1	3790.8	3784.4	3801.3	3815.0	3786.5
20°	3636.7	3666.2	3705.3	3731.7	3740.1	3750.7	3770.7	3754.9	3723.2	3692.6	3680.0
22.5°	3606.1	3672.6	3706.3	3710.6	3705.3	3672.6	3643.0	3598.7	3583.9	3568.1	3573.4
25°	3612.4	3643.0	3638.8	3621.9	3599.7	3538.5	3523.8	3504.8	3476.3	3407.7	3345.4
27.5°	3567.0	3551.2	3532.2	3491.0	3450.9	3418.2	3381.3	3320.1	3269.4	3195.6	3168.1
30°	3491.0	3427.7	3381.3	3357.0	3318.0	3263.1	3207.2	3132.2	3067.9	3053.1	3039.4
32.5°	3345.4	3283.1	3245.2	3186.1	3119.6	3054.1	2989.8	2960.2	2946.5	2948.6	2935.9
35°	3196.6	3141.7	3084.7	2996.1	2946.5	2881.1	2857.8	2851.5	2838.8	2825.1	2810.4
37.5°	3038.3	2973.9	2888.5	2835.7	2786.1	2759.7	2748.1	2738.6	2716.4	2692.2	2675.3
40°	2885.3	2769.2	2721.7	2670.0	2655.2	2643.6	2626.7	2603.5	2572.9	2568.7	2561.3
42.5°	2680.5	2597.2	2556.0	2545.5	2527.5	2507.5	2492.7	2467.4	2454.7	2463.2	2469.5
45°	2486.4	2444.2	2430.4	2417.8	2384.0	2355.5	2346.0	2337.6	2348.1	2394.6	2283.7
47.5°	2329.1	2312.2	2295.4	2274.2	2242.6	2221.5	2231.0	2239.4	2248.9	1908.0	1741.3
50°	2193.0	2169.8	2143.4	2120.2	2101.2	2099.1	2148.7	1999.9	1674.8	1666.4	1497.5
52.5°	2044.2	2009.4	1993.5	1979.8	1988.2	2019.9	1671.6	1551.3	1488.0	1292.8	1206.2
55°	1883.8	1853.2	1853.2	1865.8	1820.5	1475.4	1457.4	1260.1	1140.8	1107.0	1093.3
57.5°	1723.4	1720.2	1738.1	1589.3	1339.2	1284.3	1079.6	1036.3	1017.3	1013.1	991.0
60°	1576.7	1606.2	1344.5	1236.9	1075.4	969.9	940.3	935.0	915.0	907.6	887.5
62.5°	1459.5	1210.5	1127.1	920.3	866.4	852.7	836.9	829.5	811.6	716.6	210.0
65°	1054.3	996.2	808.4	773.6	769.3	749.3	743.0	668.0	157.2	105.5	89.7
67.5°	795.7	706.0	681.7	675.4	655.4	615.3	182.6	104.5	89.7	78.1	68.6
70°	611.0	595.2	577.3	562.5	165.7	103.4	89.7	76.0	65.4	58.0	52.8
72.5°	500.2	489.7	284.9	108.7	88.6	74.9	66.5	58.0	50.7	46.4	42.2
75°	391.5	108.7	89.7	74.9	64.4	54.9	48.5	43.3	39.0	35.9	32.7
77.5°	88.6	71.8	61.2	51.7	46.4	41.2	36.9	31.7	28.5	25.3	21.1
80°	54.9	47.5	40.1	36.9	31.7	26.4	23.2	21.1	16.9	15.8	13.7
82.5°	35.9	28.5	25.3	21.1	16.9	15.8	13.7	10.6	9.5	8.4	7.4
85°	15.8	13.7	11.6	9.5	7.4	6.3	5.3	4.2	4.2	4.2	4.2
87.5°	5.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213834

CATALOG NUMBER: 4SNLED-LD5-58SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4
2.5°	3554.4	3573.4	3591.3	3586.0	3567.0	3537.5	3529.0	3517.4	3525.9	3543.8	3551.2
5°	3579.7	3569.1	3607.1	3663.1	3753.8	3762.3	3825.6	3840.4	3891.0	3922.7	3921.6
7.5°	3615.6	3765.4	3827.7	3895.2	3925.8	3918.5	3928.0	3920.6	3909.0	3903.7	3897.3
10°	3798.1	3912.1	3935.3	3935.3	3887.9	3823.5	3796.0	3748.5	3653.6	3655.7	3639.8
12.5°	3904.7	3944.8	3890.0	3843.5	3652.5	3578.6	3498.4	3460.4	3438.3	3404.5	3417.2
15°	3848.8	3791.8	3759.1	3609.2	3492.1	3359.1	3361.2	3338.0	3313.7	3315.9	3300.0
17.5°	3766.5	3721.1	3488.9	3385.5	3328.5	3276.8	3267.3	3236.7	3220.9	3215.6	3214.5
20°	3653.6	3490.0	3316.9	3291.6	3223.0	3163.9	3154.4	3163.9	3212.4	3125.9	2832.5
22.5°	3521.7	3286.3	3235.7	3163.9	3117.5	3094.2	3152.3	2888.5	2489.5	2538.1	2486.4
25°	3297.9	3195.6	3109.0	3054.1	3048.9	2906.4	2422.0	2371.3	2114.9	1977.7	1823.6
27.5°	3134.3	3090.0	2999.3	2989.8	2921.2	2376.6	2124.4	1845.8	1743.4	1727.6	1693.8
30°	3035.1	2971.8	2916.9	2677.4	2331.2	1913.3	1704.4	1665.3	1647.4	1628.4	1598.8
32.5°	2915.9	2855.7	2882.1	2251.0	1858.4	1647.4	1605.2	1576.7	1544.0	1531.3	1424.7
35°	2794.5	2767.1	2252.1	1892.2	1597.8	1547.1	1515.5	1485.9	1182.0	286.0	97.1
37.5°	2664.7	2658.4	2024.1	1570.3	1496.5	1449.0	1359.3	280.7	66.5	45.4	33.8
40°	2563.4	2025.2	1599.9	1472.2	1412.0	1337.1	187.8	46.4	29.5	17.9	11.6
42.5°	2495.9	1821.5	1432.1	1381.4	1250.6	138.2	47.5	20.1	11.6	9.5	7.4
45°	1923.9	1438.4	1338.2	1285.4	158.3	47.5	27.4	9.5	7.4	6.3	4.2
47.5°	1775.1	1306.5	1247.4	280.7	52.8	25.3	19.0	6.3	4.2	4.2	4.2
50°	1344.5	1207.3	993.1	68.6	33.8	17.9	13.7	4.2	4.2	4.2	3.2
52.5°	1178.8	1114.4	106.6	45.4	26.4	13.7	8.4	3.2	3.2	3.2	3.2
55°	1077.5	707.1	63.3	34.8	22.2	12.7	5.3	3.2	3.2	3.2	2.1
57.5°	985.7	95.0	46.4	29.5	20.1	11.6	3.2	3.2	3.2	3.2	2.1
60°	835.8	68.6	38.0	26.4	19.0	10.6	3.2	3.2	3.2	3.2	3.2
62.5°	108.7	53.8	32.7	23.2	13.7	8.4	2.1	3.2	3.2	3.2	3.2
65°	79.2	42.2	29.5	15.8	8.4	3.2	2.1	3.2	3.2	3.2	3.2
67.5°	61.2	34.8	22.2	13.7	7.4	2.1	2.1	3.2	3.2	3.2	3.2
70°	48.5	29.5	17.9	11.6	6.3	2.1	2.1	3.2	3.2	3.2	3.2
72.5°	38.0	21.1	12.7	6.3	4.2	2.1	2.1	3.2	3.2	3.2	3.2
75°	28.5	16.9	9.5	5.3	2.1	2.1	2.1	3.2	3.2	3.2	3.2
77.5°	19.0	10.6	7.4	4.2	4.2	4.2	5.3	5.3	3.2	3.2	3.2
80°	12.7	7.4	5.3	5.3	5.3	4.2	5.3	5.3	3.2	5.3	3.2
82.5°	6.3	5.3	5.3	4.2	4.2	3.2	4.2	4.2	4.2	4.2	3.2
85°	4.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.2	4.2	3.2
87.5°	2.1	2.1	2.1	2.1	3.2	3.2	3.2	3.2	4.2	4.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213834

CATALOG NUMBER: 4SNLED-LD5-58SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4
2.5°	3541.7	3544.9	3536.4	3581.8	3558.6	3560.7	3570.2	3545.9	3551.2	3534.3	3522.7
5°	3925.8	3932.2	3938.5	3940.6	3944.8	3950.1	3943.8	3940.6	3934.3	3913.2	3891.0
7.5°	3865.7	3858.3	3855.1	3859.4	3866.7	3869.9	3864.6	3872.0	3899.5	3911.1	3918.5
10°	3549.1	3515.3	3538.5	3535.4	3509.0	3597.6	3573.4	3587.1	3596.6	3693.7	3752.8
12.5°	3398.2	3419.3	3379.2	3359.1	3385.5	3403.5	3421.4	3383.4	3436.2	3411.9	3490.0
15°	3271.5	3258.9	3254.7	3255.7	3250.4	3275.8	3282.1	3290.5	3297.9	3330.6	3343.3
17.5°	3214.5	3235.7	3244.1	3250.4	3239.9	3228.3	3216.7	3199.8	3205.1	3196.6	3220.9
20°	2635.2	2564.5	2560.2	2601.4	2556.0	2581.3	2642.6	3052.0	3038.3	3197.7	3143.8
22.5°	2199.3	2132.8	2075.8	2026.2	2096.9	2126.5	2240.5	2369.2	2578.2	2545.5	2772.4
25°	1796.2	1771.9	1757.1	1749.7	1755.0	1752.9	1778.2	1838.4	1933.4	2157.1	2446.3
27.5°	1680.1	1668.5	1663.2	1646.3	1659.0	1654.8	1674.8	1687.5	1716.0	1738.1	1832.1
30°	1588.3	1574.6	1565.1	1547.1	1559.8	1560.8	1567.2	1599.9	1611.5	1630.5	1660.0
32.5°	580.4	341.9	320.8	305.0	333.5	434.8	763.0	1333.9	1521.8	1536.6	1570.3
35°	57.0	47.5	42.2	42.2	43.3	47.5	63.3	166.7	305.0	1178.8	1475.4
37.5°	22.2	19.0	15.8	14.8	15.8	17.9	24.3	31.7	43.3	89.7	400.0
40°	9.5	8.4	7.4	7.4	7.4	7.4	8.4	10.6	15.8	29.5	46.4
42.5°	6.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	7.4	9.5	19.0
45°	4.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.2	5.3	8.4
47.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.2
50°	3.2	3.2	3.2	3.2	2.1	3.2	2.1	3.2	3.2	3.2	3.2
52.5°	3.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2
55°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2
57.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
60°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
62.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2	2.1
65°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	2.1
67.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
70°	3.2	3.2	2.1	3.2	2.1	2.1	3.2	3.2	3.2	2.1	2.1
72.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	6.3	6.3	4.2
75°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	5.3	6.3	5.3
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	5.3	5.3	5.3
80°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.2	4.2	4.2
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.2	4.2	4.2
85°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213834

CATALOG NUMBER: 4SNLED-LD5-58SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4
2.5°	3502.7	3501.6	3523.8	3540.6	3534.3	3540.6	3548.0	3549.1	3551.2	3542.8	3539.6
5°	3848.8	3816.1	3752.8	3707.4	3654.6	3558.6	3511.1	3516.4	3517.4	3514.3	3518.5
7.5°	3915.3	3912.1	3890.0	3880.5	3844.6	3776.0	3666.2	3647.2	3600.8	3571.3	3547.0
10°	3748.5	3824.5	3844.6	3878.4	3899.5	3886.8	3793.9	3780.2	3750.7	3716.9	3724.3
12.5°	3568.1	3630.4	3633.5	3817.1	3858.3	3862.5	3826.6	3845.6	3849.9	3773.9	3729.6
15°	3346.5	3376.0	3438.3	3609.2	3733.8	3811.9	3835.1	3845.6	3793.9	3790.8	3772.8
17.5°	3249.4	3268.4	3296.9	3392.9	3581.8	3696.8	3795.0	3787.6	3807.6	3792.9	3747.5
20°	3127.0	3142.8	3193.4	3242.0	3334.9	3487.9	3671.5	3685.2	3711.6	3708.4	3721.1
22.5°	3124.8	3068.9	3077.4	3115.3	3212.4	3349.6	3544.9	3590.2	3607.1	3618.7	3632.5
25°	2479.0	2923.3	3004.5	3028.8	3092.1	3172.3	3402.4	3419.3	3450.9	3502.7	3540.6
27.5°	2147.6	2449.4	2774.5	2943.3	2983.4	3049.9	3187.1	3212.4	3320.1	3332.7	3391.8
30°	1694.9	1928.1	2413.5	2819.9	2886.3	2932.8	3029.9	3080.5	3127.0	3177.6	3239.9
32.5°	1594.6	1631.5	1900.7	2333.3	2850.5	2815.6	2887.4	2918.0	2968.7	3013.0	3058.4
35°	1502.8	1528.1	1585.1	1911.2	2321.7	2719.6	2768.1	2788.2	2816.7	2850.5	2883.2
37.5°	1406.8	1444.8	1483.8	1571.4	2147.6	2643.6	2642.6	2665.8	2682.7	2711.2	2738.6
40°	255.4	1326.6	1389.9	1446.9	1665.3	2108.6	2524.4	2534.9	2546.5	2564.5	2593.0
42.5°	41.2	221.6	1302.3	1357.2	1419.4	1888.0	2470.5	2427.3	2419.9	2432.5	2457.9
45°	21.1	53.8	261.7	1267.5	1323.4	1506.0	2019.9	2352.3	2345.0	2320.7	2326.0
47.5°	15.8	33.8	64.4	438.0	1239.0	1292.8	1863.7	1843.7	1984.0	2253.1	2212.0
50°	13.7	23.2	38.0	89.7	1094.4	1190.4	1435.3	1676.9	1750.8	1760.3	2083.2
52.5°	12.7	15.8	27.4	58.0	230.1	1100.7	1167.2	1251.6	1376.2	1643.2	1636.8
55°	11.6	14.8	23.2	39.0	80.2	992.0	1060.6	1076.4	1102.8	1230.5	1399.4
57.5°	6.3	13.7	22.2	33.8	60.2	181.5	962.5	975.1	996.2	1001.5	1061.7
60°	3.2	12.7	20.1	29.5	44.3	84.4	865.4	880.1	892.8	894.9	913.9
62.5°	2.1	11.6	16.9	27.4	36.9	60.2	204.7	417.9	794.7	794.7	816.8
65°	2.1	8.4	10.6	17.9	33.8	49.6	86.5	100.3	195.2	480.2	716.6
67.5°	2.1	3.2	9.5	14.8	25.3	38.0	63.3	73.9	88.6	101.3	187.8
70°	2.1	2.1	8.4	9.5	15.8	28.5	45.4	51.7	60.2	68.6	79.2
72.5°	2.1	2.1	7.4	7.4	10.6	19.0	34.8	38.0	43.3	48.5	55.9
75°	5.3	4.2	6.3	6.3	7.4	14.8	26.4	29.5	31.7	35.9	41.2
77.5°	5.3	5.3	5.3	5.3	5.3	9.5	16.9	19.0	22.2	24.3	28.5
80°	4.2	4.2	4.2	5.3	5.3	6.3	10.6	11.6	12.7	15.8	16.9
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	6.3	7.4	9.5
85°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.2	4.2	4.2	4.2
87.5°	3.2	3.2	3.2	2.1	2.1	3.2	3.2	3.2	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213834

CATALOG NUMBER: 4SNLED-LD5-58SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4	3516.4
2.5°	3538.5	3532.2	3526.9	3530.1	3520.6	3516.4	3519.5	3520.6	3522.7	3528.0	3529.0
5°	3529.0	3526.9	3536.4	3541.7	3539.6	3541.7	3541.7	3537.5	3531.1	3535.4	3525.9
7.5°	3522.7	3509.0	3498.4	3500.5	3490.0	3502.7	3514.3	3531.1	3536.4	3536.4	3525.9
10°	3631.4	3616.6	3557.5	3517.4	3491.0	3467.8	3522.7	3466.8	3493.2	3392.9	3507.9
12.5°	3721.1	3741.2	3714.8	3605.0	3586.0	3516.4	3556.5	3487.9	3467.8	3352.8	3389.7
15°	3757.0	3719.0	3710.6	3680.0	3638.8	3618.7	3511.1	3499.5	3466.8	3479.4	3430.9
17.5°	3725.3	3744.3	3719.0	3698.9	3656.7	3609.2	3544.9	3487.9	3442.5	3341.2	3426.7
20°	3694.7	3720.1	3644.1	3656.7	3661.0	3606.1	3572.3	3524.8	3467.8	3372.8	3299.0
22.5°	3644.1	3626.1	3632.5	3613.5	3597.6	3605.0	3558.6	3525.9	3429.8	3386.6	3286.3
25°	3561.8	3555.4	3572.3	3570.2	3532.2	3519.5	3496.3	3461.5	3423.5	3353.9	3271.5
27.5°	3427.7	3460.4	3490.0	3503.7	3483.7	3449.9	3437.2	3417.2	3390.8	3320.1	3258.9
30°	3286.3	3323.2	3357.0	3386.6	3404.5	3389.7	3378.1	3366.5	3326.4	3280.0	3211.4
32.5°	3124.8	3173.4	3219.8	3255.7	3294.8	3306.4	3297.9	3288.4	3254.7	3212.4	3157.6
35°	2938.1	3004.5	3072.1	3136.5	3153.3	3180.8	3208.2	3192.4	3174.4	3132.2	3081.6
37.5°	2779.8	2827.2	2875.8	2957.0	3016.1	3051.0	3099.5	3105.8	3075.2	3055.2	2988.7
40°	2616.2	2659.4	2730.1	2777.6	2858.9	2899.0	2950.7	2973.9	2966.5	2954.9	2896.9
42.5°	2487.4	2508.5	2555.0	2597.2	2677.4	2759.7	2805.1	2830.4	2856.8	2847.3	2817.7
45°	2350.2	2369.2	2385.1	2422.0	2500.1	2572.9	2628.8	2666.8	2714.3	2736.5	2700.6
47.5°	2214.1	2219.4	2238.4	2269.0	2315.4	2371.3	2465.3	2522.2	2566.6	2609.8	2586.6
50°	2109.6	2090.6	2093.8	2112.8	2150.8	2205.6	2273.2	2353.4	2404.1	2456.8	2462.1
52.5°	1843.7	1997.7	1960.8	1971.4	1991.4	2017.8	2088.5	2167.7	2229.9	2275.3	2320.7
55°	1547.1	1577.7	1874.3	1832.1	1844.7	1867.9	1900.7	1979.8	2040.0	2103.3	2166.6
57.5°	1199.9	1427.9	1439.5	1713.9	1707.5	1709.6	1737.1	1782.5	1842.6	1921.8	1975.6
60°	932.9	1029.0	1215.7	1310.7	1551.3	1559.8	1575.6	1602.0	1653.7	1728.6	1814.1
62.5°	823.2	835.8	902.3	1044.8	1201.0	1389.9	1423.6	1427.9	1451.1	1526.0	1625.2
65°	722.9	731.3	751.4	766.2	897.0	1079.6	1242.1	1268.5	1283.3	1327.6	1412.0
67.5°	498.1	630.0	648.0	658.5	671.2	755.6	957.2	1091.2	1108.1	1147.1	1221.0
70°	96.0	199.5	545.6	557.2	563.5	582.5	615.3	828.4	940.3	977.2	1011.0
72.5°	65.4	77.0	92.9	219.5	464.3	474.9	482.3	509.7	698.6	806.3	824.2
75°	47.5	52.8	62.3	77.0	95.0	309.2	383.1	396.8	410.5	566.7	657.5
77.5°	33.8	38.0	42.2	49.6	58.0	74.9	107.6	296.5	310.3	317.7	448.5
80°	19.0	23.2	28.5	32.7	36.9	42.2	54.9	68.6	153.0	223.7	235.3
82.5°	10.6	12.7	14.8	17.9	20.1	25.3	30.6	36.9	48.5	71.8	152.0
85°	5.3	5.3	5.3	7.4	8.4	11.6	13.7	15.8	22.2	30.6	42.2
87.5°	3.2	3.2	4.2	4.2	4.2	5.3	5.3	5.3	6.3	9.5	13.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213834

CATALOG NUMBER: 4SNLED-LD5-58SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	3516.4	3516.4	3516.4	3516.4	3516.4
2.5°	3530.1	3526.9	3526.9	3539.6	3536.4
5°	3523.8	3520.6	3519.5	3533.3	3526.9
7.5°	3518.5	3506.9	3503.7	3516.4	3511.1
10°	3497.4	3488.9	3494.2	3490.0	3487.9
12.5°	3461.5	3456.2	3434.1	3436.2	3454.1
15°	3397.1	3418.2	3380.2	3414.0	3421.4
17.5°	3278.9	3326.4	3363.4	3383.4	3386.6
20°	3331.7	3347.5	3328.5	3329.6	3342.2
22.5°	3263.1	3270.5	3275.8	3269.4	3296.9
25°	3153.3	3124.8	3186.1	3198.7	3243.0
27.5°	3119.6	3096.4	3124.8	3122.7	3159.7
30°	3092.1	3017.2	3029.9	3049.9	3095.3
32.5°	3053.1	2934.9	2922.2	2966.5	3017.2
35°	2984.5	2872.6	2843.1	2871.6	2947.5
37.5°	2926.4	2786.1	2727.0	2765.0	2864.2
40°	2839.9	2718.5	2626.7	2660.5	2777.6
42.5°	2736.5	2660.5	2519.1	2542.3	2676.3
45°	2632.0	2564.5	2414.6	2426.2	2585.6
47.5°	2525.4	2463.2	2305.9	2308.0	2469.5
50°	2420.9	2338.6	2208.8	2171.9	2346.0
52.5°	2284.8	2208.8	2110.7	2050.5	2228.9
55°	2156.0	2070.6	1998.8	1905.9	2095.9
57.5°	2030.5	1935.5	1886.9	1767.7	1945.0
60°	1858.4	1813.1	1741.3	1627.3	1808.8
62.5°	1682.2	1667.4	1594.6	1476.4	1641.0
65°	1476.4	1511.2	1436.3	1335.0	1466.9
67.5°	1282.2	1344.5	1262.2	1199.9	1299.1
70°	1075.4	1147.1	1100.7	1078.6	1120.8
72.5°	871.7	941.4	945.6	929.7	943.5
75°	673.3	750.3	792.6	768.3	771.4
77.5°	510.8	547.7	594.2	613.1	608.9
80°	315.5	379.9	417.9	457.0	443.2
82.5°	159.4	213.2	259.6	301.8	281.8
85°	66.5	85.5	119.3	157.2	150.9
87.5°	20.1	33.8	35.9	50.7	47.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)