

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: P1213483

Luminaire Tested: 4SNLED-LD5-58SL-RM-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213483
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-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

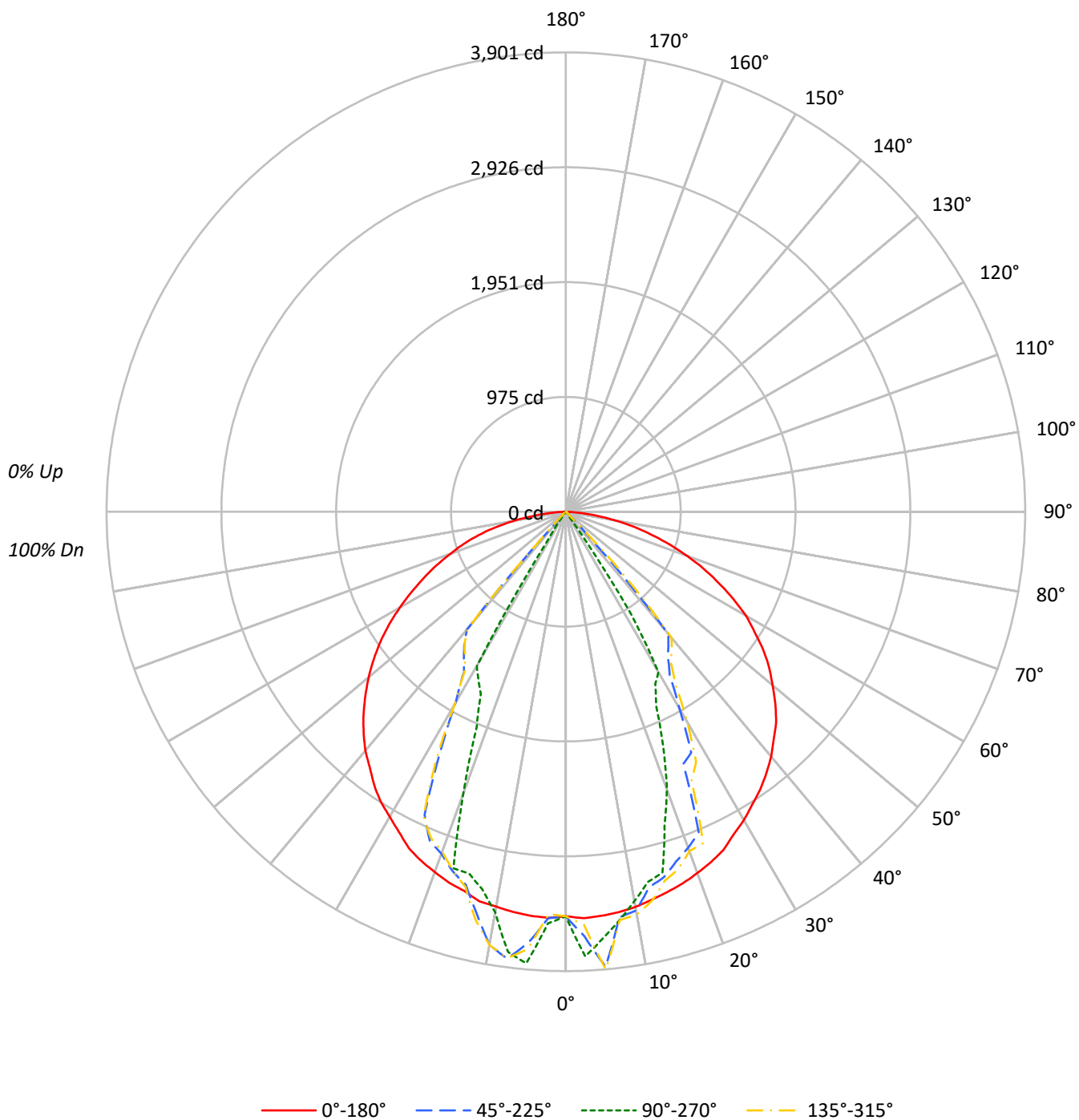
Lumens per Lamp: N/A
Luminaire Lumens: 4884.0 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72		
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65		
5	85	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59		
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54		
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42		
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	27757	27757	27757	27757
5°	27870	28548	27862	30231
10°	27804	25832	27786	26578
15°	27727	24111	27659	24174
20°	27760	18991	27680	19225
25°	27840	13744	27704	12970
30°	27713	12056	27419	11590
35°	27795	266	27387	322
40°	27890	58	27223	58
45°	27989	34	26937	26
50°	27775	27	26500	27
55°	27612	19	25915	19
60°	27090	21	24971	21
65°	25678	33	23848	22
70°	23822	36	22677	36
75°	21072	40	21416	40
80°	17117	46	18093	46
85°	10070	54	10282	54

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 30221 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.6	7.1
10°-20°	940.0	19.2
20°-30°	1196.1	24.5
30°-40°	1010.4	20.7
40°-50°	660.6	13.5
50°-60°	416.2	8.5
60°-70°	221.6	4.5
70°-80°	80.8	1.7
80°-90°	13.9	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°	2480.6	50.8
0°-40°	3491.0	71.5
0°-60°	4567.8	93.5
0°-90°	4884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4884.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3435	3435	3435	3435	3435	
5°	3445	3635	3444	3849	3445	328
15°	3342	3172	3334	3180	3342	945
25°	3168	1811	3152	1709	3168	1457
35°	2879	34	2837	41	2879	1801
45°	2526	4	2431	3	2526	1942
55°	2047	2	1922	2	2047	1824
65°	1433	3	1331	2	1433	1419
75°	754	3	766	3	754	800
85°	147	3	150	3	147	186
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°	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8
2.5°	3454.4	3456.4	3457.5	3459.5	3462.6	3463.7	3465.7	3463.7	3463.7	3463.7	3463.7
5°	3445.1	3449.2	3452.3	3456.4	3463.7	3464.7	3472.9	3474.0	3478.1	3486.3	3492.5
7.5°	3429.6	3433.8	3439.9	3450.3	3460.6	3471.9	3486.3	3501.8	3523.4	3544.1	3569.8
10°	3407.0	3412.1	3419.3	3428.6	3479.1	3486.3	3518.3	3562.6	3575.0	3639.9	3688.4
12.5°	3374.0	3391.5	3410.1	3418.3	3466.8	3543.0	3650.2	3628.6	3604.9	3817.2	3814.1
15°	3342.0	3365.7	3356.4	3423.5	3467.8	3600.8	3555.4	3652.3	3829.6	3786.3	3788.4
17.5°	3308.0	3313.2	3364.7	3420.4	3499.7	3567.8	3623.4	3756.4	3791.5	3794.6	3756.4
20°	3264.7	3289.4	3364.7	3415.2	3549.2	3581.2	3701.8	3769.8	3755.4	3720.3	3655.4
22.5°	3220.4	3295.6	3371.9	3443.0	3536.8	3622.4	3682.2	3714.2	3638.9	3500.8	3426.5
25°	3167.8	3212.1	3312.1	3416.2	3533.8	3583.2	3618.3	3566.7	3468.8	3345.1	3220.4
27.5°	3086.4	3157.5	3285.3	3402.8	3509.0	3568.8	3512.1	3388.4	3230.7	3149.2	3092.6
30°	3023.5	3116.3	3221.4	3334.8	3445.1	3480.2	3335.8	3194.6	3086.4	3004.9	2992.6
32.5°	2947.2	3079.2	3179.1	3287.4	3380.2	3333.8	3193.6	3011.1	2921.4	2890.5	2902.9
35°	2879.2	2979.2	3110.1	3216.3	3283.3	3179.1	2957.5	2844.1	2800.8	2818.3	2795.7
37.5°	2797.7	2929.7	3050.3	3142.0	3119.4	2962.7	2775.0	2702.9	2708.0	2693.6	2650.3
40°	2713.2	2839.0	2964.7	3051.3	2971.9	2732.8	2608.1	2592.6	2595.7	2549.3	2487.4
42.5°	2614.2	2728.7	2854.4	2932.8	2761.6	2575.1	2490.5	2492.6	2465.8	2400.9	2367.9
45°	2525.6	2630.7	2761.6	2768.9	2558.6	2402.9	2378.2	2351.4	2291.6	2269.9	2245.2
47.5°	2412.2	2528.7	2636.9	2597.7	2359.6	2262.7	2244.2	2185.4	2155.5	2139.0	2118.4
50°	2291.6	2409.1	2508.1	2396.7	2172.0	2149.3	2088.5	2042.1	2021.5	2004.0	1985.4
52.5°	2177.2	2274.1	2375.1	2183.3	2027.7	2006.0	1937.0	1910.2	1889.5	1870.0	1865.8
55°	2047.3	2132.8	2201.9	1980.3	1889.5	1839.0	1789.6	1771.0	1751.4	1742.1	1757.6
57.5°	1899.9	1996.8	1986.4	1780.3	1740.1	1666.9	1648.3	1636.0	1621.5	1627.7	1498.9
60°	1766.9	1841.1	1790.6	1633.9	1565.9	1516.4	1499.9	1491.6	1499.9	1374.1	1208.2
62.5°	1603.0	1686.5	1584.4	1462.8	1390.6	1366.9	1352.5	1363.8	1243.2	1105.1	1064.9
65°	1432.9	1523.6	1373.1	1279.3	1233.9	1213.3	1212.3	1116.4	997.9	944.3	944.3
67.5°	1269.0	1362.8	1169.0	1090.6	1073.1	1075.2	1015.4	870.0	837.1	801.0	696.9
70°	1094.8	1177.2	965.9	918.5	908.2	901.0	755.6	716.4	677.3	581.4	573.2
72.5°	921.6	961.8	776.2	764.9	762.8	634.0	605.1	538.1	492.7	481.4	476.3
75°	753.6	741.2	613.4	623.7	525.7	480.4	434.0	394.8	388.6	384.5	95.9
77.5°	594.8	532.9	483.5	420.6	376.3	319.6	310.3	304.1	200.0	72.2	58.8
80°	433.0	345.3	321.6	273.2	233.0	223.7	228.8	70.1	55.7	46.4	40.2
82.5°	275.2	220.6	180.4	157.7	153.6	67.0	49.5	40.2	35.0	29.9	24.7
85°	147.4	97.9	90.7	76.3	45.4	30.9	25.8	19.6	16.5	13.4	12.4
87.5°	46.4	39.2	32.0	25.8	15.5	10.3	8.2	7.2	6.2	5.2	5.2
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):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8
2.5°	3461.6	3463.7	3462.6	3465.7	3465.7	3469.8	3472.9	3476.0	3482.2	3485.3	3509.0
5°	3505.9	3511.1	3526.5	3541.0	3558.5	3563.7	3593.5	3600.8	3635.8	3639.9	3755.4
7.5°	3604.9	3624.5	3661.6	3698.7	3735.8	3759.5	3800.7	3826.5	3854.4	3879.1	3970.8
10°	3724.5	3757.5	3793.5	3830.6	3852.3	3897.6	3922.4	3926.5	3919.3	3879.1	3730.6
12.5°	3842.0	3875.0	3859.5	3866.7	3892.5	3812.1	3823.4	3765.7	3805.9	3606.9	3459.5
15°	3825.5	3823.4	3785.3	3661.6	3682.2	3528.6	3466.8	3419.3	3457.5	3436.9	3414.2
17.5°	3776.0	3682.2	3616.2	3467.8	3404.9	3361.6	3362.6	3363.7	3345.1	3364.7	3307.0
20°	3566.7	3461.6	3363.7	3311.1	3292.5	3261.6	3277.1	3261.6	3262.6	3268.8	3180.2
22.5°	3288.4	3256.5	3199.8	3216.3	3210.1	3237.9	3217.3	3185.3	3195.6	3149.2	3082.2
25°	3176.1	3138.9	3136.9	3143.1	3133.8	3121.4	3102.9	3054.4	3051.3	3036.9	3006.0
27.5°	3062.7	3064.7	3070.9	3052.3	3019.4	2994.6	2966.8	2943.1	2952.4	2935.9	2893.6
30°	2984.3	2983.3	2946.2	2929.7	2868.9	2869.9	2862.7	2848.2	2839.0	2840.0	2813.2
32.5°	2873.0	2841.0	2798.8	2778.1	2773.0	2754.4	2740.0	2743.1	2750.3	2724.5	2752.4
35°	2758.6	2692.6	2686.4	2668.9	2652.4	2640.0	2645.2	2624.5	2623.5	2620.4	2393.6
37.5°	2605.0	2573.0	2569.9	2551.4	2540.0	2536.9	2517.3	2520.4	2529.7	2546.2	2041.1
40°	2478.2	2449.3	2442.1	2441.1	2416.3	2414.3	2419.4	2439.0	2452.4	2349.3	1945.2
42.5°	2342.1	2344.2	2321.5	2307.0	2310.1	2319.4	2344.2	2276.1	1972.0	1879.2	1778.2
45°	2225.6	2215.3	2202.9	2198.8	2225.6	2207.1	1934.9	1785.4	1749.4	1745.2	1461.7
47.5°	2104.0	2100.9	2095.7	2098.8	1946.2	1734.9	1673.1	1653.5	1659.7	1655.5	1255.6
50°	1981.3	1985.4	1985.4	1733.9	1591.6	1556.6	1561.7	1579.3	1470.0	1372.1	1170.0
52.5°	1875.1	1843.2	1579.3	1488.5	1456.6	1472.1	1434.9	1297.8	1198.9	1141.2	1082.4
55°	1678.2	1443.2	1384.4	1370.0	1381.3	1244.2	1159.7	1071.1	1045.3	1039.1	1005.1
57.5°	1320.5	1273.1	1278.3	1220.5	1089.6	1012.3	978.3	965.9	954.6	946.3	82.5
60°	1168.0	1181.4	1081.4	957.7	905.1	894.8	886.5	875.2	873.1	858.7	52.6
62.5°	1069.0	940.1	853.5	822.6	810.2	807.2	791.7	786.5	668.0	91.7	39.2
65°	806.1	753.6	737.1	729.8	716.4	716.4	594.8	93.8	76.3	66.0	35.0
67.5°	657.7	653.6	645.3	636.0	433.0	90.7	79.4	69.1	59.8	52.6	30.9
70°	556.7	554.6	505.1	92.8	77.3	68.0	59.8	53.6	49.5	44.3	27.8
72.5°	456.7	92.8	78.3	68.0	58.8	53.6	48.4	43.3	39.2	36.1	22.7
75°	71.1	62.9	55.7	50.5	46.4	41.2	37.1	34.0	33.0	28.9	15.5
77.5°	51.5	44.3	40.2	36.1	32.0	28.9	24.7	21.6	19.6	16.5	11.3
80°	36.1	32.0	28.9	23.7	20.6	17.5	15.5	13.4	12.4	10.3	5.2
82.5°	20.6	17.5	15.5	12.4	11.3	9.3	8.2	7.2	7.2	5.2	5.2
85°	9.3	9.3	7.2	6.2	5.2	5.2	5.2	4.1	4.1	3.1	3.1
87.5°	4.1	4.1	4.1	4.1	4.1	3.1	3.1	3.1	3.1	3.1	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

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CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8
2.5°	3542.0	3555.4	3581.2	3608.0	3578.1	3685.3	3677.0	3713.1	3732.7	3742.0	3763.6
5°	3857.4	3917.2	3936.8	3878.1	3844.0	3809.0	3729.6	3669.8	3677.0	3657.5	3586.3
7.5°	3851.3	3723.4	3551.3	3472.9	3466.8	3457.5	3482.2	3496.6	3498.7	3497.7	3495.6
10°	3525.5	3459.5	3448.2	3437.9	3442.0	3403.9	3386.3	3336.9	3363.7	3349.2	3354.4
12.5°	3426.5	3411.1	3350.3	3265.7	3316.2	3278.1	3256.5	3270.9	3254.4	3238.9	3233.8
15°	3367.8	3267.8	3233.8	3213.2	3198.7	3190.5	3197.7	3181.2	3176.1	3173.0	3180.2
17.5°	3246.1	3205.9	3168.8	3114.2	3115.2	3112.1	3132.8	3163.7	3165.7	3007.0	2863.7
20°	3150.3	3117.3	3069.9	3035.9	3082.2	2999.8	2681.2	2529.7	2506.0	2506.0	2510.1
22.5°	3074.0	3000.8	3003.9	2950.3	2516.3	2427.7	2429.7	2439.0	2396.7	2252.4	2236.9
25°	2969.9	2958.5	2732.8	2361.7	2364.8	2295.7	2189.5	2040.1	1878.2	1878.2	1851.4
27.5°	2891.5	2651.3	2321.5	2306.0	2074.1	1927.7	1837.0	1699.9	1681.3	1663.8	1665.9
30°	2824.5	2243.1	2251.4	1927.7	1756.6	1634.9	1627.7	1605.0	1593.7	1590.6	1579.3
32.5°	2232.8	2184.4	1884.4	1641.1	1574.1	1554.5	1545.2	1519.5	1518.4	1498.9	1362.8
35°	2093.7	1917.4	1577.2	1511.2	1491.6	1473.1	1457.6	978.3	115.5	46.4	40.2
37.5°	1934.9	1601.9	1458.7	1428.8	1410.2	1042.2	104.1	36.1	25.8	18.6	16.5
40°	1640.1	1430.8	1385.5	1352.5	557.7	36.1	22.7	17.5	10.3	9.3	8.2
42.5°	1383.4	1348.4	1299.9	395.8	41.2	17.5	11.3	8.2	7.2	7.2	6.2
45°	1294.7	1263.8	523.7	39.2	25.8	8.2	7.2	7.2	6.2	4.1	4.1
47.5°	1212.3	1066.9	47.4	24.7	16.5	7.2	6.2	4.1	4.1	4.1	3.1
50°	1124.7	58.8	33.0	18.6	10.3	4.1	4.1	4.1	4.1	3.1	3.1
52.5°	210.3	41.2	26.8	16.5	5.2	4.1	4.1	4.1	3.1	3.1	3.1
55°	49.5	33.0	24.7	14.4	4.1	4.1	4.1	3.1	3.1	3.1	2.1
57.5°	37.1	24.7	19.6	13.4	4.1	3.1	3.1	3.1	3.1	3.1	2.1
60°	30.9	17.5	15.5	12.4	3.1	3.1	3.1	3.1	3.1	3.1	2.1
62.5°	21.6	14.4	11.3	9.3	3.1	3.1	3.1	3.1	3.1	3.1	3.1
65°	17.5	11.3	9.3	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
67.5°	15.5	9.3	6.2	2.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
70°	12.4	3.1	3.1	2.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
72.5°	10.3	3.1	2.1	2.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
75°	10.3	5.2	2.1	2.1	3.1	3.1	4.1	4.1	3.1	3.1	3.1
77.5°	7.2	5.2	2.1	2.1	3.1	3.1	4.1	4.1	3.1	3.1	3.1
80°	4.1	5.2	2.1	3.1	3.1	6.2	7.2	4.1	3.1	3.1	3.1
82.5°	4.1	5.2	6.2	6.2	3.1	5.2	6.2	5.2	4.1	3.1	3.1
85°	4.1	3.1	4.1	5.2	3.1	5.2	5.2	4.1	4.1	3.1	3.1
87.5°	2.1	3.1	3.1	4.1	4.1	4.1	5.2	4.1	4.1	4.1	3.1
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: P1213483

CATALOG NUMBER: 4SNLED-LD5-58SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8
2.5°	3773.9	3778.1	3713.1	3690.4	3710.0	3705.9	3688.4	3623.4	3616.2	3572.9	3510.0
5°	3606.9	3634.8	3600.8	3659.5	3631.7	3659.5	3744.0	3783.2	3847.1	3886.3	3900.7
7.5°	3490.5	3496.6	3496.6	3501.8	3507.0	3508.0	3501.8	3497.7	3480.2	3458.5	3497.7
10°	3349.2	3356.4	3368.8	3366.8	3365.7	3387.4	3392.5	3436.9	3434.8	3443.0	3472.9
12.5°	3276.0	3220.4	3270.9	3257.5	3276.0	3247.2	3300.8	3291.5	3294.6	3319.3	3383.3
15°	3154.4	3171.9	3184.3	3184.3	3191.5	3185.3	3179.1	3221.4	3247.2	3248.2	3244.1
17.5°	2920.4	2787.4	2923.5	2888.4	3167.8	3175.0	3151.3	3131.7	3131.7	3147.2	3180.2
20°	2507.0	2510.1	2511.2	2524.6	2541.0	2540.0	2541.0	2947.2	3140.0	3095.6	3065.7
22.5°	2197.8	2159.6	2230.8	2225.6	2314.3	2412.2	2506.0	2496.7	2502.9	2789.5	3047.2
25°	1761.7	1811.2	1771.0	1788.5	1888.5	2005.0	2077.2	2265.8	2470.9	2456.5	2523.5
27.5°	1658.6	1645.2	1663.8	1663.8	1677.2	1692.7	1732.9	1839.0	2021.5	2213.2	2394.7
30°	1560.7	1572.0	1574.1	1592.7	1603.0	1613.3	1619.5	1659.7	1700.9	1833.9	2057.6
32.5°	1172.1	1027.8	1352.5	1440.1	1514.3	1531.8	1544.2	1560.7	1590.6	1610.2	1722.6
35°	34.0	34.0	36.1	41.2	52.6	354.6	1350.4	1488.5	1508.1	1532.9	1553.5
37.5°	16.5	12.4	14.4	15.5	18.6	25.8	37.1	115.5	1285.5	1453.5	1476.2
40°	7.2	7.2	7.2	7.2	8.2	10.3	15.5	25.8	39.2	1033.9	1394.7
42.5°	6.2	6.2	6.2	6.2	6.2	6.2	7.2	9.3	18.6	44.3	731.9
45°	4.1	4.1	3.1	4.1	4.1	5.2	6.2	6.2	8.2	27.8	50.5
47.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	5.2	6.2	18.6	26.8
50°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	14.4	18.6
52.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	6.2	16.5
55°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.1	3.1	4.1	14.4
57.5°	2.1	2.1	2.1	2.1	2.1	3.1	2.1	2.1	3.1	3.1	13.4
60°	2.1	2.1	2.1	2.1	2.1	3.1	3.1	3.1	3.1	3.1	12.4
62.5°	3.1	3.1	2.1	3.1	2.1	2.1	3.1	3.1	3.1	3.1	8.2
65°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.1	3.1
67.5°	3.1	3.1	3.1	3.1	2.1	3.1	2.1	3.1	3.1	2.1	2.1
70°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.1	2.1	2.1	2.1
72.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.1	2.1	2.1	2.1
75°	3.1	3.1	3.1	3.1	3.1	3.1	4.1	4.1	2.1	2.1	2.1
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	5.2	6.2	5.2	5.2	2.1
80°	3.1	3.1	3.1	3.1	3.1	3.1	5.2	5.2	5.2	5.2	7.2
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	4.1	4.1	4.1	4.1	5.2
85°	3.1	3.1	3.1	3.1	3.1	3.1	4.1	4.1	4.1	3.1	4.1
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.1	3.1	3.1	3.1
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: P1213483

CATALOG NUMBER: 4SNLED-LD5-58SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8
2.5°	3515.2	3480.2	3468.8	3445.1	3443.0	3445.1	3439.9	3432.7	3436.9	3429.6	3423.5
5°	3909.0	3815.2	3754.4	3672.9	3560.6	3535.8	3529.6	3494.6	3482.2	3478.1	3461.6
7.5°	3590.5	3761.6	3864.7	3899.7	3767.8	3736.8	3700.8	3671.9	3644.1	3591.5	3559.5
10°	3449.2	3457.5	3556.4	3671.9	3859.5	3885.3	3904.9	3842.0	3824.5	3690.4	3661.6
12.5°	3416.2	3417.3	3428.6	3498.7	3646.1	3662.6	3731.7	3768.8	3814.1	3839.9	3819.3
15°	3265.7	3349.2	3411.1	3417.3	3430.7	3459.5	3480.2	3609.0	3663.6	3810.0	3801.8
17.5°	3195.6	3222.4	3312.1	3385.3	3372.9	3362.6	3379.1	3396.7	3449.2	3595.6	3593.5
20°	3079.2	3164.7	3213.2	3289.4	3358.5	3361.6	3343.0	3332.7	3312.1	3335.8	3357.5
22.5°	3029.7	3043.1	3133.8	3187.4	3265.7	3293.6	3297.7	3298.7	3287.4	3275.0	3268.8
25°	3024.5	2982.3	3028.6	3095.6	3153.4	3183.3	3217.3	3228.6	3224.5	3224.5	3218.3
27.5°	2475.1	2968.8	2944.1	2988.4	3058.5	3079.2	3096.7	3131.7	3153.4	3168.8	3176.1
30°	2357.6	2446.2	2878.1	2884.3	2955.4	2953.4	2973.0	3001.8	3029.7	3065.7	3075.0
32.5°	2085.4	2302.9	2634.9	2780.2	2854.4	2861.6	2871.9	2880.2	2906.0	2946.2	2981.2
35°	1671.0	2097.8	2257.6	2730.7	2744.1	2758.6	2764.7	2784.3	2792.6	2809.1	2840.0
37.5°	1512.3	1733.9	2165.8	2361.7	2617.3	2629.7	2662.7	2670.9	2684.3	2697.7	2721.4
40°	1420.5	1481.3	1803.0	2109.1	2515.3	2523.5	2534.9	2555.5	2556.5	2572.0	2593.6
42.5°	1347.3	1386.5	1480.3	2014.3	2443.1	2442.1	2415.3	2428.7	2434.9	2451.4	2481.3
45°	1076.2	1300.9	1360.7	1645.2	1945.2	2085.4	2354.5	2310.1	2309.1	2315.3	2347.2
47.5°	54.6	1223.6	1265.9	1357.6	1837.0	1842.1	1877.2	2172.0	2217.4	2202.9	2206.0
50°	37.1	84.5	1179.3	1221.6	1583.4	1711.2	1737.0	1750.4	1920.5	2110.2	2079.2
52.5°	28.9	48.4	722.6	1133.9	1286.5	1380.3	1546.3	1641.1	1651.4	1727.7	1986.4
55°	25.8	37.1	78.3	1046.3	1093.7	1114.3	1211.2	1377.2	1511.2	1551.4	1554.5
57.5°	22.7	34.0	53.6	473.2	994.8	998.9	1015.4	1073.1	1193.7	1304.0	1428.8
60°	20.6	29.9	42.3	81.4	904.1	914.4	917.5	932.9	947.4	1022.6	1165.9
62.5°	12.4	23.7	37.1	58.8	715.4	821.6	820.6	830.9	844.3	852.5	881.4
65°	10.3	18.6	32.0	49.5	87.6	109.3	663.9	738.1	746.3	757.7	762.8
67.5°	9.3	16.5	23.7	39.2	66.0	75.3	86.6	107.2	585.5	659.7	670.1
70°	8.2	11.3	19.6	33.0	53.6	57.7	64.9	74.2	87.6	108.2	529.9
72.5°	5.2	8.2	13.4	23.7	41.2	46.4	50.5	56.7	62.9	75.3	86.6
75°	2.1	6.2	11.3	17.5	32.0	35.0	38.1	42.3	47.4	55.7	61.9
77.5°	2.1	5.2	9.3	12.4	20.6	23.7	27.8	30.9	35.0	39.2	45.4
80°	7.2	4.1	6.2	9.3	14.4	15.5	17.5	19.6	22.7	25.8	29.9
82.5°	5.2	6.2	7.2	6.2	7.2	9.3	10.3	12.4	13.4	15.5	16.5
85°	4.1	4.1	5.2	5.2	5.2	5.2	5.2	5.2	6.2	7.2	9.3
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.1	4.1
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: P1213483

CATALOG NUMBER: 4SNLED-LD5-58SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8
2.5°	3423.5	3421.4	3415.2	3415.2	3414.2	3418.3	3421.4	3424.5	3423.5	3429.6	3423.5
5°	3449.2	3444.1	3434.8	3426.5	3423.5	3425.5	3422.4	3425.5	3421.4	3426.5	3417.3
7.5°	3520.4	3502.8	3466.8	3452.3	3433.8	3432.7	3423.5	3421.4	3415.2	3415.2	3403.9
10°	3646.1	3561.6	3551.3	3508.0	3492.5	3417.3	3433.8	3405.9	3402.8	3389.4	3384.3
12.5°	3749.2	3683.2	3663.6	3625.5	3582.2	3429.6	3463.7	3403.9	3400.8	3374.0	3346.1
15°	3751.3	3789.4	3735.8	3630.7	3621.4	3516.2	3447.2	3426.5	3399.7	3319.3	3332.7
17.5°	3630.7	3718.3	3744.0	3721.4	3655.4	3584.3	3487.4	3446.1	3365.7	3329.6	3304.9
20°	3434.8	3523.4	3633.7	3641.0	3682.2	3631.7	3504.9	3437.9	3341.0	3278.1	3257.5
22.5°	3279.1	3344.1	3470.9	3529.6	3580.1	3597.7	3517.3	3418.3	3297.7	3236.9	3224.5
25°	3196.7	3211.1	3249.2	3318.3	3429.6	3510.0	3521.4	3416.2	3353.4	3220.4	3150.3
27.5°	3166.8	3154.4	3138.9	3174.0	3257.5	3355.4	3420.4	3437.9	3281.2	3154.4	3084.3
30°	3090.5	3097.7	3074.0	3061.6	3116.3	3217.3	3332.7	3361.6	3241.0	3110.1	3029.7
32.5°	2996.7	3009.1	3013.2	2991.5	2980.2	3050.3	3175.0	3244.1	3237.9	3047.2	2957.5
35°	2879.2	2914.2	2923.5	2924.5	2906.0	2894.6	2966.8	3110.1	3164.7	3018.3	2888.4
37.5°	2755.5	2765.8	2816.3	2829.7	2829.7	2795.7	2849.3	2963.7	3040.0	2953.4	2803.9
40°	2600.8	2633.8	2681.2	2705.0	2728.7	2731.8	2701.9	2782.3	2908.0	2886.4	2724.5
42.5°	2488.5	2510.1	2539.0	2570.9	2619.4	2631.8	2600.8	2615.3	2746.2	2802.9	2621.5
45°	2357.6	2386.4	2394.7	2429.7	2480.2	2516.3	2515.3	2485.4	2590.5	2660.6	2546.2
47.5°	2223.5	2251.4	2265.8	2283.3	2320.4	2366.8	2392.6	2379.2	2399.8	2536.9	2446.2
50°	2085.4	2100.9	2129.7	2149.3	2174.1	2200.9	2262.7	2275.1	2246.2	2355.5	2335.9
52.5°	1954.5	1959.6	1979.2	1998.8	2031.8	2051.4	2100.9	2138.0	2135.9	2167.9	2213.2
55°	1852.4	1829.8	1833.9	1849.3	1871.0	1900.9	1928.7	1986.4	2006.0	2012.2	2084.4
57.5°	1447.3	1680.3	1700.9	1699.9	1725.6	1739.0	1764.8	1803.0	1873.1	1857.6	1938.0
60°	1315.4	1341.1	1536.0	1558.6	1567.9	1580.3	1611.2	1646.3	1697.8	1730.8	1765.8
62.5°	1003.0	1159.7	1218.5	1390.6	1417.4	1424.6	1445.3	1461.7	1515.4	1590.6	1576.2
65°	776.2	843.2	1022.6	1092.7	1239.1	1257.6	1286.5	1304.0	1319.5	1406.1	1410.2
67.5°	671.1	681.4	729.8	864.9	957.7	1100.9	1118.5	1133.9	1157.6	1219.5	1257.6
70°	573.2	585.5	598.9	610.3	730.9	825.7	958.7	963.8	979.3	1020.5	1107.1
72.5°	108.2	489.7	497.9	505.1	518.5	581.4	708.2	811.3	817.5	837.1	916.4
75°	73.2	85.6	117.5	404.1	417.5	421.6	443.3	572.1	667.0	671.1	706.1
77.5°	52.6	58.8	71.1	84.5	215.4	323.7	328.8	352.6	450.5	521.6	527.8
80°	36.1	40.2	47.4	53.6	66.0	86.6	239.2	246.4	258.7	356.7	375.2
82.5°	20.6	23.7	27.8	34.0	39.2	49.5	63.9	82.5	168.0	179.4	238.1
85°	10.3	11.3	13.4	16.5	19.6	23.7	32.0	39.2	53.6	96.9	100.0
87.5°	5.2	5.2	5.2	5.2	8.2	9.3	11.3	14.4	18.6	27.8	36.1
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: P1213483

CATALOG NUMBER: 4SNLED-LD5-58SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8
2.5°	3424.5	3438.9	3451.3	3454.4	3454.4	3456.4	3459.5	3461.6	3463.7	3465.7	3463.7
5°	3418.3	3433.8	3444.1	3447.2	3447.2	3453.3	3458.5	3464.7	3467.8	3467.8	3465.7
7.5°	3402.8	3414.2	3427.6	3435.8	3436.9	3447.2	3456.4	3455.4	3459.5	3461.6	3466.8
10°	3382.2	3382.2	3404.9	3411.1	3416.2	3427.6	3430.7	3436.9	3451.3	3453.3	3466.8
12.5°	3371.9	3361.6	3388.4	3391.5	3409.0	3394.6	3413.1	3419.3	3404.9	3424.5	3398.7
15°	3325.5	3337.9	3333.8	3343.0	3374.0	3357.5	3408.0	3391.5	3428.6	3384.3	3462.6
17.5°	3287.4	3285.3	3301.8	3310.1	3316.2	3351.3	3364.7	3383.3	3397.7	3385.3	3416.2
20°	3259.5	3243.1	3255.4	3264.7	3286.4	3313.2	3321.4	3293.6	3342.0	3424.5	3444.1
22.5°	3207.0	3195.6	3210.1	3210.1	3243.1	3238.9	3269.9	3252.3	3297.7	3393.6	3493.6
25°	3135.8	3136.9	3152.3	3170.9	3177.1	3223.5	3240.0	3262.6	3319.3	3433.8	3494.6
27.5°	3063.7	3057.5	3066.8	3104.9	3136.9	3170.9	3176.1	3253.4	3330.7	3409.0	3462.6
30°	2991.5	2985.3	2991.5	3019.4	3057.5	3080.2	3136.9	3240.0	3312.1	3365.7	3416.2
32.5°	2914.2	2908.0	2922.5	2943.1	3010.1	3013.2	3125.5	3222.4	3279.1	3318.3	3309.0
35°	2831.7	2823.5	2836.9	2868.9	2930.7	2953.4	3070.9	3143.1	3207.0	3225.5	3182.2
37.5°	2732.8	2718.4	2734.8	2779.2	2844.1	2910.1	3008.0	3091.5	3125.5	3076.1	3024.5
40°	2629.7	2619.4	2648.3	2670.9	2747.2	2839.0	2951.3	3010.1	2988.4	2931.7	2875.0
42.5°	2538.0	2516.3	2542.1	2585.4	2672.0	2776.1	2866.8	2899.8	2848.2	2764.7	2698.8
45°	2425.6	2399.8	2430.7	2488.5	2581.2	2699.8	2770.9	2759.6	2672.0	2599.8	2509.1
47.5°	2308.1	2277.1	2308.1	2377.1	2481.3	2607.0	2658.6	2607.0	2496.7	2406.0	2332.8
50°	2192.6	2156.5	2186.4	2290.5	2392.6	2489.5	2488.5	2388.5	2322.5	2223.5	2159.6
52.5°	2078.2	2026.7	2056.5	2169.9	2272.0	2382.3	2300.9	2208.1	2128.7	2042.1	2021.5
55°	1937.0	1881.3	1921.5	2086.4	2164.8	2229.7	2099.8	2018.4	1940.1	1896.8	1871.0
57.5°	1803.0	1742.1	1777.2	1972.0	2029.7	2046.2	1926.7	1811.2	1764.8	1750.4	1713.3
60°	1664.8	1595.8	1628.7	1853.5	1893.7	1826.7	1709.2	1619.5	1610.2	1581.3	1552.5
62.5°	1532.9	1456.6	1477.2	1706.1	1724.6	1603.0	1494.7	1471.0	1448.3	1419.5	1404.0
65°	1381.3	1302.0	1330.8	1549.4	1531.8	1375.2	1314.3	1309.2	1279.3	1255.6	1278.3
67.5°	1242.2	1148.4	1188.6	1378.2	1298.9	1171.0	1146.3	1133.9	1110.2	1123.6	885.5
70°	1089.6	987.6	1042.2	1193.7	1076.2	991.7	982.4	963.8	964.9	767.0	646.3
72.5°	919.5	830.9	910.2	991.7	851.5	826.7	813.3	811.3	654.6	531.9	502.0
75°	770.0	680.4	765.9	796.8	678.3	661.8	660.8	546.4	429.9	410.3	401.0
77.5°	601.0	531.9	613.4	567.0	520.6	502.0	450.5	338.1	323.7	310.3	116.5
80°	405.1	410.3	457.7	390.7	371.1	316.5	249.5	239.2	206.2	82.5	64.9
82.5°	246.4	309.3	291.7	244.3	239.2	172.2	157.7	80.4	59.8	47.4	41.2
85°	127.8	156.7	150.5	133.0	99.0	88.7	49.5	38.1	30.9	23.7	19.6
87.5°	43.3	57.7	55.7	44.3	34.0	26.8	17.5	14.4	10.3	8.2	7.2
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: P1213483

CATALOG NUMBER: 4SNLED-LD5-58SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8
2.5°	3461.6	3461.6	3459.5	3461.6	3462.6	3460.6	3460.6	3462.6	3463.7	3464.7	3469.8
5°	3466.8	3468.8	3471.9	3478.1	3479.1	3491.5	3496.6	3499.7	3502.8	3503.9	3496.6
7.5°	3478.1	3485.3	3491.5	3490.5	3483.2	3463.7	3457.5	3452.3	3461.6	3485.3	3513.1
10°	3488.4	3455.4	3393.6	3478.1	3452.3	3476.0	3546.1	3561.6	3609.0	3676.0	3695.6
12.5°	3417.3	3508.0	3527.6	3432.7	3608.0	3543.0	3620.3	3688.4	3708.0	3776.0	3734.8
15°	3493.6	3537.9	3567.8	3662.6	3652.3	3708.0	3729.6	3716.2	3719.3	3736.8	3783.2
17.5°	3492.5	3581.2	3600.8	3664.7	3708.0	3709.0	3702.8	3696.6	3713.1	3726.5	3698.7
20°	3552.3	3581.2	3619.3	3645.1	3653.3	3663.6	3683.2	3667.8	3636.8	3606.9	3594.6
22.5°	3522.4	3587.4	3620.3	3624.5	3619.3	3587.4	3558.5	3515.2	3500.8	3485.3	3490.5
25°	3528.6	3558.5	3554.4	3537.9	3516.2	3456.4	3442.0	3423.5	3395.6	3328.6	3267.8
27.5°	3484.3	3468.8	3450.3	3410.1	3370.9	3338.9	3302.8	3243.1	3193.6	3121.4	3094.6
30°	3410.1	3348.2	3302.8	3279.1	3241.0	3187.4	3132.8	3059.6	2996.7	2982.3	2968.8
32.5°	3267.8	3207.0	3169.9	3112.1	3047.2	2983.3	2920.4	2891.5	2878.1	2880.2	2867.8
35°	3122.4	3068.8	3013.2	2926.6	2878.1	2814.2	2791.5	2785.4	2773.0	2759.6	2745.2
37.5°	2967.8	2904.9	2821.4	2769.9	2721.4	2695.7	2684.3	2675.1	2653.4	2629.7	2613.2
40°	2818.3	2705.0	2658.6	2608.1	2593.6	2582.3	2565.8	2543.1	2513.2	2509.1	2501.9
42.5°	2618.4	2536.9	2496.7	2486.4	2468.9	2449.3	2434.9	2410.1	2397.8	2406.0	2412.2
45°	2428.7	2387.4	2374.0	2361.7	2328.7	2300.9	2291.6	2283.3	2293.6	2339.0	2230.8
47.5°	2275.1	2258.6	2242.1	2221.5	2190.6	2169.9	2179.2	2187.5	2196.7	1863.8	1700.9
50°	2142.1	2119.4	2093.7	2071.0	2052.4	2050.4	2098.8	1953.5	1636.0	1627.7	1462.8
52.5°	1996.8	1962.7	1947.3	1933.9	1942.1	1973.0	1632.9	1515.4	1453.5	1262.8	1178.3
55°	1840.1	1810.2	1810.2	1822.5	1778.2	1441.1	1423.6	1230.8	1114.3	1081.4	1068.0
57.5°	1683.4	1680.3	1697.8	1552.5	1308.1	1254.5	1054.6	1012.3	993.7	989.6	968.0
60°	1540.1	1569.0	1313.3	1208.2	1050.4	947.4	918.5	913.3	893.7	886.5	866.9
62.5°	1425.7	1182.4	1100.9	898.9	846.3	832.9	817.5	810.2	792.7	699.9	205.1
65°	1029.8	973.1	789.6	755.6	751.5	731.9	725.7	652.5	153.6	103.1	87.6
67.5°	777.3	689.6	665.9	659.7	640.2	601.0	178.3	102.1	87.6	76.3	67.0
70°	596.9	581.4	563.9	549.4	161.8	101.0	87.6	74.2	63.9	56.7	51.5
72.5°	488.6	478.3	278.3	106.2	86.6	73.2	64.9	56.7	49.5	45.4	41.2
75°	382.4	106.2	87.6	73.2	62.9	53.6	47.4	42.3	38.1	35.0	32.0
77.5°	86.6	70.1	59.8	50.5	45.4	40.2	36.1	30.9	27.8	24.7	20.6
80°	53.6	46.4	39.2	36.1	30.9	25.8	22.7	20.6	16.5	15.5	13.4
82.5°	35.0	27.8	24.7	20.6	16.5	15.5	13.4	10.3	9.3	8.2	7.2
85°	15.5	13.4	11.3	9.3	7.2	6.2	5.2	4.1	4.1	4.1	4.1
87.5°	5.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	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: P1213483

CATALOG NUMBER: 4SNLED-LD5-58SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8
2.5°	3471.9	3490.5	3508.0	3502.8	3484.3	3455.4	3447.2	3435.8	3444.1	3461.6	3468.8
5°	3496.6	3486.3	3523.4	3578.1	3666.7	3675.0	3736.8	3751.3	3800.7	3831.7	3830.6
7.5°	3531.7	3678.1	3738.9	3804.9	3834.8	3827.5	3836.8	3829.6	3818.3	3813.1	3806.9
10°	3710.0	3821.4	3844.0	3844.0	3797.7	3734.8	3708.0	3661.6	3568.8	3570.9	3555.4
12.5°	3814.1	3853.3	3799.7	3754.4	3567.8	3495.6	3417.3	3380.2	3358.5	3325.5	3337.9
15°	3759.5	3703.8	3671.9	3525.5	3411.1	3281.2	3283.3	3260.6	3236.9	3238.9	3223.5
17.5°	3679.1	3634.8	3408.0	3307.0	3251.3	3200.8	3191.5	3161.6	3146.2	3141.0	3140.0
20°	3568.8	3409.0	3240.0	3215.2	3148.2	3090.5	3081.2	3090.5	3137.9	3053.4	2766.8
22.5°	3439.9	3210.1	3160.6	3090.5	3045.1	3022.5	3079.2	2821.4	2431.8	2479.2	2428.7
25°	3221.4	3121.4	3036.9	2983.3	2978.1	2839.0	2365.8	2316.3	2065.8	1931.8	1781.3
27.5°	3061.6	3018.3	2929.7	2920.4	2853.4	2321.5	2075.1	1803.0	1703.0	1687.5	1654.5
30°	2964.7	2902.9	2849.3	2615.3	2277.1	1868.9	1664.8	1626.7	1609.2	1590.6	1561.7
32.5°	2848.2	2789.5	2815.3	2198.8	1815.3	1609.2	1567.9	1540.1	1508.1	1495.8	1391.6
35°	2729.7	2702.9	2199.8	1848.3	1560.7	1511.2	1480.3	1451.4	1154.6	279.4	94.8
37.5°	2602.9	2596.7	1977.2	1533.9	1461.7	1415.4	1327.7	274.2	64.9	44.3	33.0
40°	2503.9	1978.2	1562.8	1438.0	1379.3	1306.1	183.5	45.4	28.9	17.5	11.3
42.5°	2438.0	1779.2	1398.9	1349.4	1221.6	135.0	46.4	19.6	11.3	9.3	7.2
45°	1879.2	1405.0	1307.1	1255.6	154.6	46.4	26.8	9.3	7.2	6.2	4.1
47.5°	1733.9	1276.2	1218.5	274.2	51.5	24.7	18.6	6.2	4.1	4.1	4.1
50°	1313.3	1179.3	970.0	67.0	33.0	17.5	13.4	4.1	4.1	4.1	3.1
52.5°	1151.5	1088.6	104.1	44.3	25.8	13.4	8.2	3.1	3.1	3.1	3.1
55°	1052.5	690.7	61.9	34.0	21.6	12.4	5.2	3.1	3.1	3.1	2.1
57.5°	962.8	92.8	45.4	28.9	19.6	11.3	3.1	3.1	3.1	3.1	2.1
60°	816.4	67.0	37.1	25.8	18.6	10.3	3.1	3.1	3.1	3.1	3.1
62.5°	106.2	52.6	32.0	22.7	13.4	8.2	2.1	3.1	3.1	3.1	3.1
65°	77.3	41.2	28.9	15.5	8.2	3.1	2.1	3.1	3.1	3.1	3.1
67.5°	59.8	34.0	21.6	13.4	7.2	2.1	2.1	3.1	3.1	3.1	3.1
70°	47.4	28.9	17.5	11.3	6.2	2.1	2.1	3.1	3.1	3.1	3.1
72.5°	37.1	20.6	12.4	6.2	4.1	2.1	2.1	3.1	3.1	3.1	3.1
75°	27.8	16.5	9.3	5.2	2.1	2.1	2.1	3.1	3.1	3.1	3.1
77.5°	18.6	10.3	7.2	4.1	4.1	4.1	5.2	5.2	3.1	3.1	3.1
80°	12.4	7.2	5.2	5.2	5.2	4.1	5.2	5.2	3.1	5.2	3.1
82.5°	6.2	5.2	5.2	4.1	4.1	3.1	4.1	4.1	4.1	4.1	3.1
85°	4.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.1	4.1	3.1
87.5°	2.1	2.1	2.1	2.1	3.1	3.1	3.1	3.1	4.1	4.1	3.1
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: P1213483

CATALOG NUMBER: 4SNLED-LD5-58SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8
2.5°	3459.5	3462.6	3454.4	3498.7	3476.0	3478.1	3487.4	3463.7	3468.8	3452.3	3441.0
5°	3834.8	3840.9	3847.1	3849.2	3853.3	3858.5	3852.3	3849.2	3843.0	3822.4	3800.7
7.5°	3776.0	3768.8	3765.7	3769.8	3777.0	3780.1	3775.0	3782.2	3809.0	3820.3	3827.5
10°	3466.8	3433.8	3456.4	3453.3	3427.6	3514.2	3490.5	3503.9	3513.1	3608.0	3665.7
12.5°	3319.3	3340.0	3300.8	3281.2	3307.0	3324.5	3342.0	3304.9	3356.4	3332.7	3409.0
15°	3195.6	3183.3	3179.1	3180.2	3175.0	3199.8	3205.9	3214.2	3221.4	3253.4	3265.7
17.5°	3140.0	3160.6	3168.8	3175.0	3164.7	3153.4	3142.0	3125.5	3130.7	3122.4	3146.2
20°	2574.0	2505.0	2500.8	2541.0	2496.7	2521.5	2581.2	2981.2	2967.8	3123.5	3070.9
22.5°	2148.3	2083.3	2027.7	1979.2	2048.3	2077.2	2188.5	2314.3	2518.4	2486.4	2708.0
25°	1754.5	1730.8	1716.4	1709.2	1714.3	1712.2	1737.0	1795.7	1888.5	2107.1	2389.5
27.5°	1641.1	1629.8	1624.6	1608.1	1620.5	1616.4	1636.0	1648.3	1676.2	1697.8	1789.6
30°	1551.4	1538.0	1528.8	1511.2	1523.6	1524.6	1530.8	1562.8	1574.1	1592.7	1621.5
32.5°	567.0	334.0	313.4	297.9	325.7	424.7	745.3	1303.0	1486.5	1500.9	1533.9
35°	55.7	46.4	41.2	41.2	42.3	46.4	61.9	162.9	297.9	1151.5	1441.1
37.5°	21.6	18.6	15.5	14.4	15.5	17.5	23.7	30.9	42.3	87.6	390.7
40°	9.3	8.2	7.2	7.2	7.2	7.2	8.2	10.3	15.5	28.9	45.4
42.5°	6.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	7.2	9.3	18.6
45°	4.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.1	5.2	8.2
47.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.1
50°	3.1	3.1	3.1	3.1	2.1	3.1	2.1	3.1	3.1	3.1	3.1
52.5°	3.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.1	3.1
55°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.1
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	3.1	3.1	2.1
65°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.1	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°	3.1	3.1	2.1	3.1	2.1	2.1	3.1	3.1	3.1	2.1	2.1
72.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	6.2	6.2	4.1
75°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	5.2	6.2	5.2
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	5.2	5.2	5.2
80°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.1	4.1	4.1
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.1	4.1	4.1
85°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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: P1213483

CATALOG NUMBER: 4SNLED-LD5-58SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8
2.5°	3421.4	3420.4	3442.0	3458.5	3452.3	3458.5	3465.7	3466.8	3468.8	3460.6	3457.5
5°	3759.5	3727.6	3665.7	3621.4	3569.8	3476.0	3429.6	3434.8	3435.8	3432.7	3436.9
7.5°	3824.5	3821.4	3799.7	3790.4	3755.4	3688.4	3581.2	3562.6	3517.3	3488.4	3464.7
10°	3661.6	3735.8	3755.4	3788.4	3809.0	3796.6	3705.9	3692.5	3663.6	3630.7	3637.9
12.5°	3485.3	3546.1	3549.2	3728.6	3768.8	3772.9	3737.9	3756.4	3760.5	3686.3	3643.0
15°	3268.8	3297.7	3358.5	3525.5	3647.1	3723.4	3746.1	3756.4	3705.9	3702.8	3685.3
17.5°	3174.0	3192.5	3220.4	3314.2	3498.7	3611.1	3706.9	3699.7	3719.3	3704.9	3660.6
20°	3054.4	3069.9	3119.4	3166.8	3257.5	3407.0	3586.3	3599.7	3625.5	3622.4	3634.8
22.5°	3052.3	2997.7	3006.0	3043.1	3137.9	3271.9	3462.6	3507.0	3523.4	3534.8	3548.2
25°	2421.5	2855.5	2934.8	2958.5	3020.4	3098.7	3323.5	3340.0	3370.9	3421.4	3458.5
27.5°	2097.8	2392.6	2710.1	2875.0	2914.2	2979.2	3113.2	3137.9	3243.1	3255.4	3313.2
30°	1655.5	1883.4	2357.6	2754.4	2819.4	2864.7	2959.6	3009.1	3054.4	3103.9	3164.7
32.5°	1557.6	1593.7	1856.6	2279.2	2784.3	2750.3	2820.4	2850.3	2899.8	2943.1	2987.4
35°	1467.9	1492.7	1548.3	1866.9	2267.9	2656.5	2703.9	2723.5	2751.3	2784.3	2816.3
37.5°	1374.1	1411.2	1449.4	1534.9	2097.8	2582.3	2581.2	2603.9	2620.4	2648.3	2675.1
40°	249.5	1295.8	1357.6	1413.3	1626.7	2059.6	2465.8	2476.1	2487.4	2505.0	2532.8
42.5°	40.2	216.5	1272.1	1325.7	1386.5	1844.2	2413.2	2371.0	2363.7	2376.1	2400.9
45°	20.6	52.6	255.7	1238.1	1292.7	1471.0	1973.0	2297.8	2290.5	2266.8	2272.0
47.5°	15.5	33.0	62.9	427.8	1210.2	1262.8	1820.5	1800.9	1938.0	2200.9	2160.7
50°	13.4	22.7	37.1	87.6	1069.0	1162.8	1402.0	1638.0	1710.2	1719.5	2034.9
52.5°	12.4	15.5	26.8	56.7	224.7	1075.2	1140.1	1222.6	1344.2	1605.0	1598.8
55°	11.3	14.4	22.7	38.1	78.3	969.0	1036.0	1051.5	1077.2	1202.0	1366.9
57.5°	6.2	13.4	21.6	33.0	58.8	177.3	940.1	952.5	973.1	978.3	1037.0
60°	3.1	12.4	19.6	28.9	43.3	82.5	845.3	859.7	872.1	874.2	892.7
62.5°	2.1	11.3	16.5	26.8	36.1	58.8	200.0	408.2	776.2	776.2	797.9
65°	2.1	8.2	10.3	17.5	33.0	48.4	84.5	97.9	190.7	469.0	699.9
67.5°	2.1	3.1	9.3	14.4	24.7	37.1	61.9	72.2	86.6	99.0	183.5
70°	2.1	2.1	8.2	9.3	15.5	27.8	44.3	50.5	58.8	67.0	77.3
72.5°	2.1	2.1	7.2	7.2	10.3	18.6	34.0	37.1	42.3	47.4	54.6
75°	5.2	4.1	6.2	6.2	7.2	14.4	25.8	28.9	30.9	35.0	40.2
77.5°	5.2	5.2	5.2	5.2	5.2	9.3	16.5	18.6	21.6	23.7	27.8
80°	4.1	4.1	4.1	5.2	5.2	6.2	10.3	11.3	12.4	15.5	16.5
82.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	6.2	7.2	9.3
85°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.1	4.1	4.1	4.1
87.5°	3.1	3.1	3.1	2.1	2.1	3.1	3.1	3.1	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8	3434.8
2.5°	3456.4	3450.3	3445.1	3448.2	3438.9	3434.8	3437.9	3438.9	3441.0	3446.1	3447.2
5°	3447.2	3445.1	3454.4	3459.5	3457.5	3459.5	3459.5	3455.4	3449.2	3453.3	3444.1
7.5°	3441.0	3427.6	3417.3	3419.3	3409.0	3421.4	3432.7	3449.2	3454.4	3454.4	3444.1
10°	3547.2	3532.7	3475.0	3435.8	3410.1	3387.4	3441.0	3386.3	3412.1	3314.2	3426.5
12.5°	3634.8	3654.4	3628.6	3521.4	3502.8	3434.8	3474.0	3407.0	3387.4	3275.0	3311.1
15°	3669.8	3632.7	3624.5	3594.6	3554.4	3534.8	3429.6	3418.3	3386.3	3398.7	3351.3
17.5°	3638.9	3657.5	3632.7	3613.1	3571.9	3525.5	3462.6	3407.0	3362.6	3263.7	3347.2
20°	3609.0	3633.7	3559.5	3571.9	3576.0	3522.4	3489.4	3443.0	3387.4	3294.6	3222.4
22.5°	3559.5	3542.0	3548.2	3529.6	3514.2	3521.4	3476.0	3444.1	3350.3	3308.0	3210.1
25°	3479.1	3472.9	3489.4	3487.4	3450.3	3437.9	3415.2	3381.2	3344.1	3276.0	3195.6
27.5°	3348.2	3380.2	3409.0	3422.4	3402.8	3369.9	3357.5	3337.9	3312.1	3243.1	3183.3
30°	3210.1	3246.1	3279.1	3308.0	3325.5	3311.1	3299.8	3288.4	3249.2	3203.9	3136.9
32.5°	3052.3	3099.8	3145.1	3180.2	3218.3	3229.7	3221.4	3212.1	3179.1	3137.9	3084.3
35°	2869.9	2934.8	3000.8	3063.7	3080.2	3107.0	3133.8	3118.3	3100.8	3059.6	3010.1
37.5°	2715.3	2761.6	2809.1	2888.4	2946.2	2980.2	3027.6	3033.8	3003.9	2984.3	2919.4
40°	2555.5	2597.7	2666.8	2713.2	2792.6	2831.7	2882.3	2904.9	2897.7	2886.4	2829.7
42.5°	2429.7	2450.3	2495.7	2536.9	2615.3	2695.7	2740.0	2764.7	2790.5	2781.2	2752.4
45°	2295.7	2314.3	2329.7	2365.8	2442.1	2513.2	2567.8	2605.0	2651.3	2673.0	2637.9
47.5°	2162.7	2167.9	2186.4	2216.3	2261.7	2316.3	2408.1	2463.7	2507.0	2549.3	2526.6
50°	2060.7	2042.1	2045.2	2063.8	2100.9	2154.5	2220.5	2298.8	2348.3	2399.8	2405.0
52.5°	1800.9	1951.4	1915.3	1925.6	1945.2	1971.0	2040.1	2117.4	2178.2	2222.5	2266.8
55°	1511.2	1541.1	1830.8	1789.6	1801.9	1824.6	1856.6	1933.9	1992.6	2054.5	2116.3
57.5°	1172.1	1394.7	1406.1	1674.1	1667.9	1670.0	1696.8	1741.1	1799.9	1877.2	1929.8
60°	911.3	1005.1	1187.5	1280.3	1515.4	1523.6	1539.1	1564.8	1615.3	1688.5	1772.0
62.5°	804.1	816.4	881.4	1020.5	1173.1	1357.6	1390.6	1394.7	1417.4	1490.6	1587.5
65°	706.1	714.4	734.0	748.4	876.2	1054.6	1213.3	1239.1	1253.5	1296.8	1379.3
67.5°	486.6	615.4	632.9	643.3	655.6	738.1	935.0	1065.9	1082.4	1120.5	1192.7
70°	93.8	194.8	532.9	544.3	550.5	569.0	601.0	809.2	918.5	954.6	987.6
72.5°	63.9	75.3	90.7	214.4	453.6	463.9	471.1	497.9	682.4	787.6	805.1
75°	46.4	51.5	60.8	75.3	92.8	302.0	374.2	387.6	401.0	553.6	642.2
77.5°	33.0	37.1	41.2	48.4	56.7	73.2	105.1	289.7	303.1	310.3	438.1
80°	18.6	22.7	27.8	32.0	36.1	41.2	53.6	67.0	149.5	218.5	229.9
82.5°	10.3	12.4	14.4	17.5	19.6	24.7	29.9	36.1	47.4	70.1	148.4
85°	5.2	5.2	5.2	7.2	8.2	11.3	13.4	15.5	21.6	29.9	41.2
87.5°	3.1	3.1	4.1	4.1	4.1	5.2	5.2	5.2	6.2	9.3	13.4
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°	3434.8	3434.8	3434.8	3434.8	3434.8
2.5°	3448.2	3445.1	3445.1	3457.5	3454.4
5°	3442.0	3438.9	3437.9	3451.3	3445.1
7.5°	3436.9	3425.5	3422.4	3434.8	3429.6
10°	3416.2	3408.0	3413.1	3409.0	3407.0
12.5°	3381.2	3376.0	3354.4	3356.4	3374.0
15°	3318.3	3338.9	3301.8	3334.8	3342.0
17.5°	3202.9	3249.2	3285.3	3304.9	3308.0
20°	3254.4	3269.9	3251.3	3252.3	3264.7
22.5°	3187.4	3194.6	3199.8	3193.6	3220.4
25°	3080.2	3052.3	3112.1	3124.5	3167.8
27.5°	3047.2	3024.5	3052.3	3050.3	3086.4
30°	3020.4	2947.2	2959.6	2979.2	3023.5
32.5°	2982.3	2866.8	2854.4	2897.7	2947.2
35°	2915.2	2806.0	2777.1	2804.9	2879.2
37.5°	2858.5	2721.4	2663.7	2700.8	2797.7
40°	2774.0	2655.5	2565.8	2598.8	2713.2
42.5°	2673.0	2598.8	2460.6	2483.3	2614.2
45°	2570.9	2505.0	2358.6	2369.9	2525.6
47.5°	2466.8	2406.0	2252.4	2254.5	2412.2
50°	2364.8	2284.4	2157.6	2121.5	2291.6
52.5°	2231.8	2157.6	2061.7	2002.9	2177.2
55°	2106.0	2022.5	1952.4	1861.7	2047.3
57.5°	1983.4	1890.6	1843.2	1726.7	1899.9
60°	1815.3	1771.0	1700.9	1589.6	1766.9
62.5°	1643.2	1628.7	1557.6	1442.2	1603.0
65°	1442.2	1476.2	1403.0	1304.0	1432.9
67.5°	1252.5	1313.3	1232.9	1172.1	1269.0
70°	1050.4	1120.5	1075.2	1053.5	1094.8
72.5°	851.5	919.5	923.6	908.2	921.6
75°	657.7	732.9	774.2	750.5	753.6
77.5°	498.9	535.0	580.4	598.9	594.8
80°	308.2	371.1	408.2	446.4	433.0
82.5°	155.7	208.2	253.6	294.8	275.2
85°	64.9	83.5	116.5	153.6	147.4
87.5°	19.6	33.0	35.0	49.5	46.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)