

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: P1213510

Luminaire Tested: 4SNLED-LD5-65SL-RM-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213510
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-LD5-65SL-RM-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

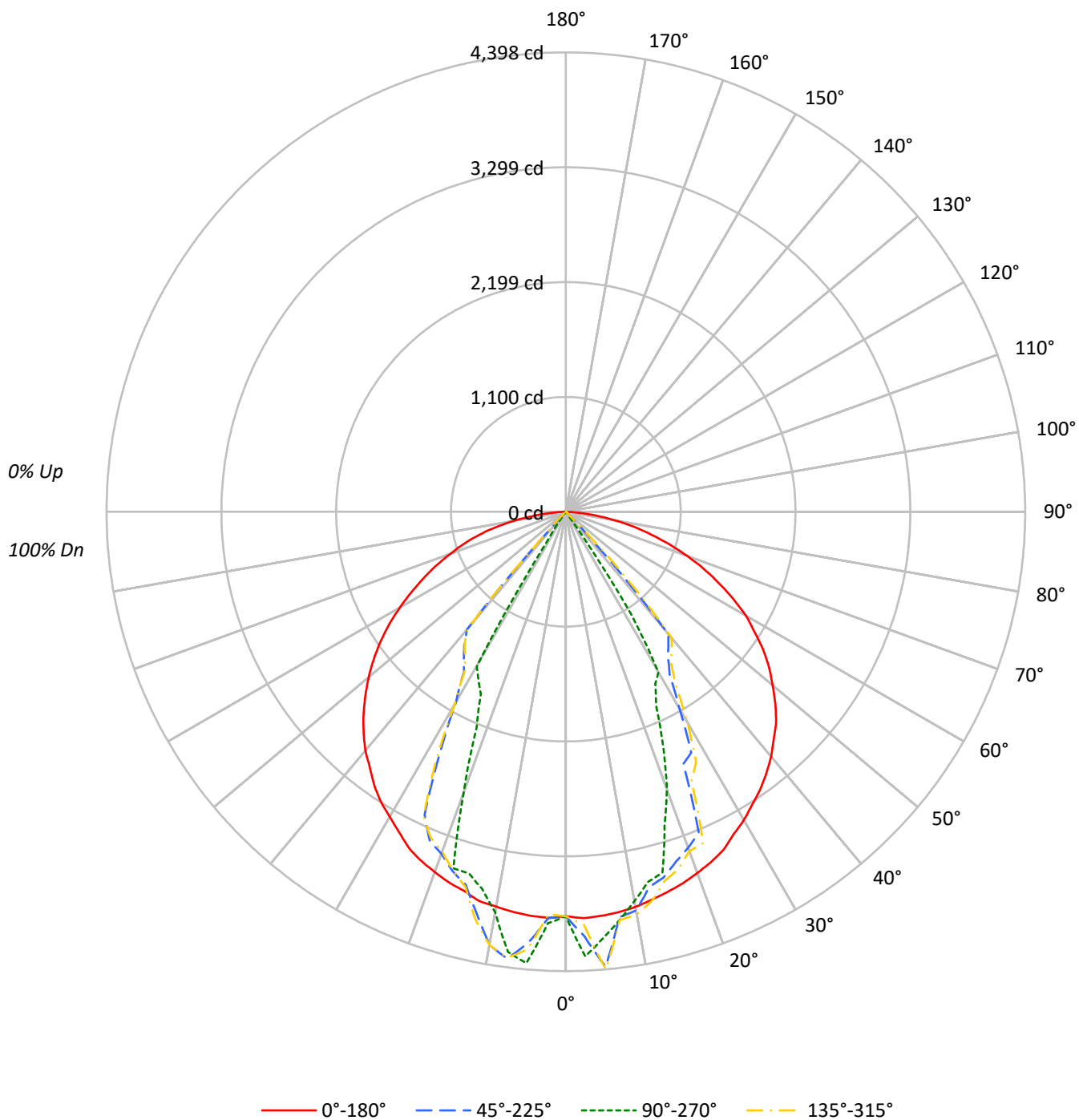
Lumens per Lamp: N/A
Luminaire Lumens: 5506.0 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	31291	31291	31291	31291
5°	31420	32183	31410	34081
10°	31344	29122	31325	29962
15°	31258	27182	31181	27253
20°	31295	21410	31206	21674
25°	31385	15494	31232	14621
30°	31242	13592	30912	13066
35°	31334	300	30875	363
40°	31442	65	30689	65
45°	31553	38	30368	29
50°	31312	30	29876	30
55°	31128	21	29215	21
60°	30540	23	28153	23
65°	28949	37	26886	24
70°	26855	41	25565	41
75°	23753	46	24145	46
80°	19295	52	20398	52
85°	11354	61	11593	61

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 34070 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.5	7.1
10°-20°	1059.7	19.2
20°-30°	1348.4	24.5
30°-40°	1139.0	20.7
40°-50°	744.7	13.5
50°-60°	469.2	8.5
60°-70°	249.8	4.5
70°-80°	91.1	1.7
80°-90°	15.7	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°	2796.6	50.8
0°-40°	3935.6	71.5
0°-60°	5149.5	93.5
0°-90°	5506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5506.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3872	3872	3872	3872	3872	
5°	3884	4098	3883	4339	3884	369
15°	3768	3576	3758	3585	3768	1065
25°	3571	2042	3554	1927	3571	1642
35°	3246	38	3198	46	3246	2031
45°	2847	5	2740	4	2847	2190
55°	2308	2	2166	2	2308	2056
65°	1615	4	1500	2	1615	1600
75°	850	4	864	4	850	902
85°	166	4	170	4	166	210
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°	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2
2.5°	3894.3	3896.6	3897.8	3900.1	3903.6	3904.8	3907.1	3904.8	3904.8	3904.8	3904.8
5°	3883.9	3888.5	3892.0	3896.6	3904.8	3905.9	3915.2	3916.4	3921.0	3930.3	3937.3
7.5°	3866.4	3871.1	3878.0	3889.7	3901.3	3914.1	3930.3	3947.8	3972.2	3995.4	4024.5
10°	3840.9	3846.7	3854.8	3865.3	3922.2	3930.3	3966.4	4016.3	4030.3	4103.5	4158.1
12.5°	3803.7	3823.4	3844.3	3853.6	3908.3	3994.3	4115.1	4090.7	4064.0	4303.4	4299.9
15°	3767.6	3794.4	3783.9	3859.4	3909.4	4059.3	4008.2	4117.4	4317.3	4268.5	4270.8
17.5°	3729.3	3735.1	3793.2	3856.0	3945.4	4022.1	4084.9	4234.8	4274.3	4277.8	4234.8
20°	3680.5	3708.4	3793.2	3850.2	4001.2	4037.3	4173.2	4249.9	4233.7	4194.1	4120.9
22.5°	3630.5	3715.3	3801.3	3881.5	3987.3	4083.7	4151.1	4187.2	4102.3	3946.6	3862.9
25°	3571.2	3621.2	3733.9	3851.3	3983.8	4039.6	4079.1	4021.0	3910.6	3771.1	3630.5
27.5°	3479.4	3559.6	3703.7	3836.2	3955.9	4023.3	3959.4	3819.9	3642.1	3550.3	3486.4
30°	3408.5	3513.1	3631.7	3759.5	3883.9	3923.4	3760.7	3601.5	3479.4	3387.6	3373.7
32.5°	3322.5	3471.3	3584.0	3706.0	3810.6	3758.3	3600.3	3394.6	3293.5	3258.6	3272.6
35°	3245.8	3358.6	3506.2	3625.9	3701.4	3584.0	3334.2	3206.3	3157.5	3177.3	3151.7
37.5°	3154.0	3302.8	3438.8	3542.2	3516.6	3340.0	3128.5	3047.1	3052.9	3036.7	2987.8
40°	3058.7	3200.5	3342.3	3439.9	3350.4	3080.8	2940.2	2922.8	2926.3	2874.0	2804.2
42.5°	2947.2	3076.2	3217.9	3306.3	3113.4	2903.0	2807.7	2810.0	2779.8	2706.6	2669.4
45°	2847.2	2965.8	3113.4	3121.5	2884.4	2708.9	2681.0	2650.8	2583.4	2559.0	2531.1
47.5°	2719.4	2850.7	2972.7	2928.6	2660.1	2550.9	2530.0	2463.7	2430.0	2411.4	2388.2
50°	2583.4	2715.9	2827.5	2702.0	2448.6	2423.0	2354.5	2302.2	2278.9	2259.2	2238.3
52.5°	2454.4	2563.7	2677.6	2461.4	2285.9	2261.5	2183.7	2153.4	2130.2	2108.1	2103.5
55°	2308.0	2404.5	2482.3	2232.5	2130.2	2073.2	2017.5	1996.5	1974.5	1964.0	1981.4
57.5°	2141.8	2251.1	2239.4	2007.0	1961.7	1879.2	1858.3	1844.3	1828.0	1835.0	1689.7
60°	1991.9	2075.6	2018.6	1842.0	1765.3	1709.5	1690.9	1681.6	1690.9	1549.1	1362.0
62.5°	1807.1	1901.3	1786.2	1649.1	1567.7	1541.0	1524.7	1537.5	1401.5	1245.8	1200.5
65°	1615.4	1717.6	1548.0	1442.2	1391.1	1367.8	1366.7	1258.6	1124.9	1064.5	1064.5
67.5°	1430.6	1536.3	1317.9	1229.5	1209.8	1212.1	1144.7	980.8	943.7	903.0	785.6
70°	1234.2	1327.2	1088.9	1035.5	1023.8	1015.7	851.8	807.7	763.5	655.4	646.1
72.5°	1038.9	1084.3	875.1	862.3	860.0	714.7	682.2	606.6	555.5	542.7	536.9
75°	849.5	835.6	691.5	703.1	592.7	541.6	489.3	445.1	438.1	433.5	108.1
77.5°	670.6	600.8	545.0	474.2	424.2	360.3	349.8	342.8	225.5	81.3	66.2
80°	488.1	389.3	362.6	308.0	262.6	252.2	258.0	79.0	62.8	52.3	45.3
82.5°	310.3	248.7	203.4	177.8	173.2	75.5	55.8	45.3	39.5	33.7	27.9
85°	166.2	110.4	102.3	86.0	51.1	34.9	29.1	22.1	18.6	15.1	13.9
87.5°	52.3	44.2	36.0	29.1	17.4	11.6	9.3	8.1	7.0	5.8	5.8
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°	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2
2.5°	3902.4	3904.8	3903.6	3907.1	3907.1	3911.7	3915.2	3918.7	3925.7	3929.2	3955.9
5°	3952.4	3958.2	3975.7	3991.9	4011.7	4017.5	4051.2	4059.3	4098.8	4103.5	4233.7
7.5°	4064.0	4086.1	4127.9	4169.7	4211.6	4238.3	4284.8	4313.8	4345.2	4373.1	4476.5
10°	4198.8	4236.0	4276.7	4318.5	4342.9	4394.0	4421.9	4426.6	4418.4	4373.1	4205.8
12.5°	4331.3	4368.5	4351.0	4359.2	4388.2	4297.6	4310.4	4245.3	4290.6	4066.3	3900.1
15°	4312.7	4310.4	4267.4	4127.9	4151.1	3978.0	3908.3	3854.8	3897.8	3874.6	3849.0
17.5°	4256.9	4151.1	4076.8	3909.4	3838.5	3789.7	3790.9	3792.0	3771.1	3793.2	3728.1
20°	4021.0	3902.4	3792.0	3732.8	3711.9	3677.0	3694.4	3677.0	3678.2	3685.1	3585.2
22.5°	3707.2	3671.2	3607.3	3625.9	3618.9	3650.3	3627.0	3591.0	3602.6	3550.3	3474.8
25°	3580.5	3538.7	3536.4	3543.3	3532.9	3518.9	3498.0	3443.4	3439.9	3423.6	3388.8
27.5°	3452.7	3455.0	3462.0	3441.1	3403.9	3376.0	3344.6	3317.9	3328.4	3309.8	3262.1
30°	3364.4	3363.2	3321.4	3302.8	3234.2	3235.4	3227.2	3211.0	3200.5	3201.7	3171.5
32.5°	3238.9	3202.8	3155.2	3132.0	3126.1	3105.2	3089.0	3092.4	3100.6	3071.5	3102.9
35°	3109.9	3035.5	3028.5	3008.8	2990.2	2976.2	2982.0	2958.8	2957.6	2954.1	2698.5
37.5°	2936.7	2900.7	2897.2	2876.3	2863.5	2860.0	2837.9	2841.4	2851.9	2870.5	2301.0
40°	2793.8	2761.2	2753.1	2751.9	2724.0	2721.7	2727.5	2749.6	2764.7	2648.5	2192.9
42.5°	2640.4	2642.7	2617.1	2600.9	2604.3	2614.8	2642.7	2566.0	2223.2	2118.6	2004.7
45°	2509.0	2497.4	2483.5	2478.8	2509.0	2488.1	2181.3	2012.8	1972.1	1967.5	1647.9
47.5°	2371.9	2368.4	2362.6	2366.1	2194.1	1955.9	1886.1	1864.1	1871.0	1866.4	1415.5
50°	2233.6	2238.3	2238.3	1954.7	1794.3	1754.8	1760.6	1780.4	1657.2	1546.8	1319.0
52.5°	2113.9	2077.9	1780.4	1678.1	1642.1	1659.5	1617.7	1463.1	1351.6	1286.5	1220.2
55°	1892.0	1627.0	1560.7	1544.5	1557.3	1402.7	1307.4	1207.5	1178.4	1171.4	1133.1
57.5°	1488.7	1435.2	1441.0	1376.0	1228.4	1141.2	1102.9	1088.9	1076.1	1066.8	93.0
60°	1316.7	1331.8	1219.1	1079.6	1020.4	1008.7	999.4	986.7	984.3	968.1	59.3
62.5°	1205.1	1059.9	962.2	927.4	913.4	910.0	892.5	886.7	753.1	103.4	44.2
65°	908.8	849.5	830.9	822.8	807.7	807.7	670.6	105.8	86.0	74.4	39.5
67.5°	741.4	736.8	727.5	717.0	488.1	102.3	89.5	77.9	67.4	59.3	34.9
70°	627.6	625.2	569.4	104.6	87.2	76.7	67.4	60.4	55.8	50.0	31.4
72.5°	514.8	104.6	88.3	76.7	66.2	60.4	54.6	48.8	44.2	40.7	25.6
75°	80.2	70.9	62.8	56.9	52.3	46.5	41.8	38.4	37.2	32.5	17.4
77.5°	58.1	50.0	45.3	40.7	36.0	32.5	27.9	24.4	22.1	18.6	12.8
80°	40.7	36.0	32.5	26.7	23.2	19.8	17.4	15.1	13.9	11.6	5.8
82.5°	23.2	19.8	17.4	13.9	12.8	10.5	9.3	8.1	8.1	5.8	5.8
85°	10.5	10.5	8.1	7.0	5.8	5.8	5.8	4.6	4.6	3.5	3.5
87.5°	4.6	4.6	4.6	4.6	4.6	3.5	3.5	3.5	3.5	3.5	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2
2.5°	3993.1	4008.2	4037.3	4067.5	4033.8	4154.6	4145.3	4186.0	4208.1	4218.5	4243.0
5°	4348.7	4416.1	4438.2	4371.9	4333.6	4294.1	4204.6	4137.2	4145.3	4123.3	4043.1
7.5°	4341.7	4197.6	4003.6	3915.2	3908.3	3897.8	3925.7	3942.0	3944.3	3943.1	3940.8
10°	3974.5	3900.1	3887.3	3875.7	3880.4	3837.4	3817.6	3761.8	3792.0	3775.8	3781.6
12.5°	3862.9	3845.5	3776.9	3681.6	3738.6	3695.6	3671.2	3687.5	3668.9	3651.4	3645.6
15°	3796.7	3684.0	3645.6	3622.4	3606.1	3596.8	3604.9	3586.3	3580.5	3577.0	3585.2
17.5°	3659.6	3614.2	3572.4	3510.8	3512.0	3508.5	3531.7	3566.6	3568.9	3389.9	3228.4
20°	3551.5	3514.3	3460.8	3422.5	3474.8	3381.8	3022.7	2851.9	2825.1	2825.1	2829.8
22.5°	3465.5	3383.0	3386.5	3326.0	2836.8	2736.8	2739.2	2749.6	2702.0	2539.3	2521.8
25°	3348.1	3335.3	3080.8	2662.4	2665.9	2588.1	2468.4	2299.9	2117.4	2117.4	2087.2
27.5°	3259.8	2989.0	2617.1	2599.7	2338.2	2173.2	2070.9	1916.4	1895.4	1875.7	1878.0
30°	3184.2	2528.8	2538.1	2173.2	1980.3	1843.1	1835.0	1809.4	1796.7	1793.2	1780.4
32.5°	2517.2	2462.6	2124.4	1850.1	1774.6	1752.5	1742.0	1713.0	1711.8	1689.7	1536.3
35°	2360.3	2161.6	1778.1	1703.7	1681.6	1660.7	1643.3	1102.9	130.2	52.3	45.3
37.5°	2181.3	1806.0	1644.4	1610.7	1589.8	1174.9	117.4	40.7	29.1	20.9	18.6
40°	1849.0	1613.0	1561.9	1524.7	628.7	40.7	25.6	19.8	11.6	10.5	9.3
42.5°	1559.6	1520.1	1465.5	446.3	46.5	19.8	12.8	9.3	8.1	8.1	7.0
45°	1459.6	1424.8	590.4	44.2	29.1	9.3	8.1	8.1	7.0	4.6	4.6
47.5°	1366.7	1202.8	53.5	27.9	18.6	8.1	7.0	4.6	4.6	4.6	3.5
50°	1267.9	66.2	37.2	20.9	11.6	4.6	4.6	4.6	4.6	3.5	3.5
52.5°	237.1	46.5	30.2	18.6	5.8	4.6	4.6	4.6	3.5	3.5	3.5
55°	55.8	37.2	27.9	16.3	4.6	4.6	4.6	3.5	3.5	3.5	2.3
57.5°	41.8	27.9	22.1	15.1	4.6	3.5	3.5	3.5	3.5	3.5	2.3
60°	34.9	19.8	17.4	13.9	3.5	3.5	3.5	3.5	3.5	3.5	2.3
62.5°	24.4	16.3	12.8	10.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
65°	19.8	12.8	10.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
67.5°	17.4	10.5	7.0	2.3	3.5	3.5	3.5	3.5	3.5	3.5	3.5
70°	13.9	3.5	3.5	2.3	3.5	3.5	3.5	3.5	3.5	3.5	3.5
72.5°	11.6	3.5	2.3	2.3	3.5	3.5	3.5	3.5	3.5	3.5	3.5
75°	11.6	5.8	2.3	2.3	3.5	3.5	4.6	4.6	3.5	3.5	3.5
77.5°	8.1	5.8	2.3	2.3	3.5	3.5	4.6	4.6	3.5	3.5	3.5
80°	4.6	5.8	2.3	3.5	3.5	7.0	8.1	4.6	3.5	3.5	3.5
82.5°	4.6	5.8	7.0	7.0	3.5	5.8	7.0	5.8	4.6	3.5	3.5
85°	4.6	3.5	4.6	5.8	3.5	5.8	5.8	4.6	4.6	3.5	3.5
87.5°	2.3	3.5	3.5	4.6	4.6	4.6	5.8	4.6	4.6	4.6	3.5
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: P1213510

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2
2.5°	4254.6	4259.2	4186.0	4160.4	4182.5	4177.9	4158.1	4084.9	4076.8	4028.0	3957.1
5°	4066.3	4097.7	4059.3	4125.6	4094.2	4125.6	4220.9	4265.0	4337.1	4381.2	4397.5
7.5°	3935.0	3942.0	3942.0	3947.8	3953.6	3954.7	3947.8	3943.1	3923.4	3899.0	3943.1
10°	3775.8	3783.9	3797.9	3795.5	3794.4	3818.8	3824.6	3874.6	3872.2	3881.5	3915.2
12.5°	3693.3	3630.5	3687.5	3672.3	3693.3	3660.7	3721.2	3710.7	3714.2	3742.1	3814.1
15°	3556.1	3575.9	3589.8	3589.8	3598.0	3591.0	3584.0	3631.7	3660.7	3661.9	3657.2
17.5°	3292.3	3142.4	3295.8	3256.3	3571.2	3579.4	3552.6	3530.6	3530.6	3548.0	3585.2
20°	2826.3	2829.8	2831.0	2846.1	2864.7	2863.5	2864.7	3322.5	3539.9	3489.9	3456.2
22.5°	2477.7	2434.7	2514.9	2509.0	2609.0	2719.4	2825.1	2814.7	2821.7	3144.7	3435.3
25°	1986.1	2041.9	1996.5	2016.3	2129.0	2260.4	2341.7	2554.4	2785.6	2769.4	2844.9
27.5°	1869.9	1854.8	1875.7	1875.7	1890.8	1908.2	1953.5	2073.2	2278.9	2495.1	2699.6
30°	1759.5	1772.3	1774.6	1795.5	1807.1	1818.7	1825.7	1871.0	1917.5	2067.4	2319.6
32.5°	1321.3	1158.6	1524.7	1623.5	1707.2	1726.9	1740.9	1759.5	1793.2	1815.3	1941.9
35°	38.4	38.4	40.7	46.5	59.3	399.8	1522.4	1678.1	1700.2	1728.1	1751.3
37.5°	18.6	13.9	16.3	17.4	20.9	29.1	41.8	130.2	1449.2	1638.6	1664.2
40°	8.1	8.1	8.1	8.1	9.3	11.6	17.4	29.1	44.2	1165.6	1572.4
42.5°	7.0	7.0	7.0	7.0	7.0	7.0	8.1	10.5	20.9	50.0	825.1
45°	4.6	4.6	3.5	4.6	4.6	5.8	7.0	7.0	9.3	31.4	56.9
47.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	5.8	7.0	20.9	30.2
50°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	16.3	20.9
52.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	7.0	18.6
55°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.5	3.5	4.6	16.3
57.5°	2.3	2.3	2.3	2.3	2.3	3.5	2.3	2.3	3.5	3.5	15.1
60°	2.3	2.3	2.3	2.3	2.3	3.5	3.5	3.5	3.5	3.5	13.9
62.5°	3.5	3.5	2.3	3.5	2.3	2.3	3.5	3.5	3.5	3.5	9.3
65°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	2.3	3.5
67.5°	3.5	3.5	3.5	3.5	2.3	3.5	2.3	3.5	3.5	2.3	2.3
70°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	2.3	2.3	2.3	2.3
72.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	2.3	2.3	2.3	2.3
75°	3.5	3.5	3.5	3.5	3.5	3.5	4.6	4.6	2.3	2.3	2.3
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	5.8	7.0	5.8	5.8	2.3
80°	3.5	3.5	3.5	3.5	3.5	3.5	5.8	5.8	5.8	5.8	8.1
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	4.6	4.6	4.6	4.6	5.8
85°	3.5	3.5	3.5	3.5	3.5	3.5	4.6	4.6	4.6	3.5	4.6
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.6	3.5	3.5	3.5
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: P1213510

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2
2.5°	3962.9	3923.4	3910.6	3883.9	3881.5	3883.9	3878.0	3869.9	3874.6	3866.4	3859.4
5°	4406.8	4301.1	4232.5	4140.7	4014.0	3986.1	3979.1	3939.6	3925.7	3921.0	3902.4
7.5°	4047.7	4240.6	4356.8	4396.4	4247.6	4212.7	4172.1	4139.5	4108.1	4048.9	4012.8
10°	3888.5	3897.8	4009.4	4139.5	4351.0	4380.1	4402.2	4331.3	4311.5	4160.4	4127.9
12.5°	3851.3	3852.5	3865.3	3944.3	4110.5	4129.1	4206.9	4248.8	4299.9	4328.9	4305.7
15°	3681.6	3775.8	3845.5	3852.5	3867.6	3900.1	3923.4	4068.6	4130.2	4295.2	4286.0
17.5°	3602.6	3632.8	3733.9	3816.4	3802.5	3790.9	3809.5	3829.2	3888.5	4053.5	4051.2
20°	3471.3	3567.8	3622.4	3708.4	3786.2	3789.7	3768.8	3757.2	3733.9	3760.7	3785.1
22.5°	3415.5	3430.6	3532.9	3593.3	3681.6	3713.0	3717.7	3718.8	3706.0	3692.1	3685.1
25°	3409.7	3362.1	3414.4	3489.9	3555.0	3588.7	3627.0	3639.8	3635.2	3635.2	3628.2
27.5°	2790.3	3346.9	3319.1	3369.0	3448.1	3471.3	3491.1	3530.6	3555.0	3572.4	3580.5
30°	2657.8	2757.7	3244.7	3251.7	3331.8	3329.5	3351.6	3384.1	3415.5	3456.2	3466.6
32.5°	2351.0	2596.2	2970.4	3134.3	3217.9	3226.1	3237.7	3247.0	3276.1	3321.4	3360.9
35°	1883.8	2364.9	2545.1	3078.5	3093.6	3109.9	3116.8	3138.9	3148.2	3166.8	3201.7
37.5°	1704.9	1954.7	2441.6	2662.4	2950.7	2964.6	3001.8	3011.1	3026.2	3041.3	3068.0
40°	1601.4	1670.0	2032.6	2377.7	2835.6	2844.9	2857.7	2880.9	2882.1	2899.5	2923.9
42.5°	1518.9	1563.1	1668.8	2270.8	2754.3	2753.1	2722.9	2738.0	2745.0	2763.6	2797.3
45°	1213.3	1466.6	1534.0	1854.8	2192.9	2351.0	2654.3	2604.3	2603.2	2610.2	2646.2
47.5°	61.6	1379.5	1427.1	1530.5	2070.9	2076.7	2116.2	2448.6	2499.8	2483.5	2487.0
50°	41.8	95.3	1329.5	1377.1	1785.0	1929.1	1958.2	1973.3	2165.1	2378.9	2344.0
52.5°	32.5	54.6	814.7	1278.3	1450.3	1556.1	1743.2	1850.1	1861.7	1947.7	2239.4
55°	29.1	41.8	88.3	1179.6	1233.0	1256.3	1365.5	1552.6	1703.7	1749.0	1752.5
57.5°	25.6	38.4	60.4	533.4	1121.5	1126.1	1144.7	1209.8	1345.8	1470.1	1610.7
60°	23.2	33.7	47.6	91.8	1019.2	1030.8	1034.3	1051.7	1068.0	1152.8	1314.4
62.5°	13.9	26.7	41.8	66.2	806.5	926.2	925.1	936.7	951.8	961.1	993.6
65°	11.6	20.9	36.0	55.8	98.8	123.2	748.4	832.1	841.4	854.2	860.0
67.5°	10.5	18.6	26.7	44.2	74.4	84.8	97.6	120.9	660.1	743.8	755.4
70°	9.3	12.8	22.1	37.2	60.4	65.1	73.2	83.7	98.8	122.0	597.3
72.5°	5.8	9.3	15.1	26.7	46.5	52.3	56.9	63.9	70.9	84.8	97.6
75°	2.3	7.0	12.8	19.8	36.0	39.5	43.0	47.6	53.5	62.8	69.7
77.5°	2.3	5.8	10.5	13.9	23.2	26.7	31.4	34.9	39.5	44.2	51.1
80°	8.1	4.6	7.0	10.5	16.3	17.4	19.8	22.1	25.6	29.1	33.7
82.5°	5.8	7.0	8.1	7.0	8.1	10.5	11.6	13.9	15.1	17.4	18.6
85°	4.6	4.6	5.8	5.8	5.8	5.8	5.8	5.8	7.0	8.1	10.5
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213510

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2
2.5°	3859.4	3857.1	3850.2	3850.2	3849.0	3853.6	3857.1	3860.6	3859.4	3866.4	3859.4
5°	3888.5	3882.7	3872.2	3862.9	3859.4	3861.8	3858.3	3861.8	3857.1	3862.9	3852.5
7.5°	3968.7	3948.9	3908.3	3892.0	3871.1	3869.9	3859.4	3857.1	3850.2	3850.2	3837.4
10°	4110.5	4015.2	4003.6	3954.7	3937.3	3852.5	3871.1	3839.7	3836.2	3821.1	3815.3
12.5°	4226.7	4152.3	4130.2	4087.2	4038.4	3866.4	3904.8	3837.4	3833.9	3803.7	3772.3
15°	4229.0	4272.0	4211.6	4093.0	4082.6	3964.0	3886.2	3862.9	3832.7	3742.1	3757.2
17.5°	4093.0	4191.8	4220.9	4195.3	4120.9	4040.7	3931.5	3885.0	3794.4	3753.7	3725.8
20°	3872.2	3972.2	4096.5	4104.7	4151.1	4094.2	3951.3	3875.7	3766.5	3695.6	3672.3
22.5°	3696.7	3770.0	3912.9	3979.1	4036.1	4055.8	3965.2	3853.6	3717.7	3649.1	3635.2
25°	3603.8	3620.0	3663.0	3740.9	3866.4	3957.1	3969.9	3851.3	3780.4	3630.5	3551.5
27.5°	3570.1	3556.1	3538.7	3578.2	3672.3	3782.7	3856.0	3875.7	3699.1	3556.1	3477.1
30°	3484.1	3492.2	3465.5	3451.5	3513.1	3627.0	3757.2	3789.7	3653.7	3506.2	3415.5
32.5°	3378.3	3392.3	3396.9	3372.5	3359.7	3438.8	3579.4	3657.2	3650.3	3435.3	3334.2
35°	3245.8	3285.4	3295.8	3297.0	3276.1	3263.3	3344.6	3506.2	3567.8	3402.7	3256.3
37.5°	3106.4	3118.0	3175.0	3190.1	3190.1	3151.7	3212.1	3341.1	3427.1	3329.5	3161.0
40°	2932.1	2969.3	3022.7	3049.4	3076.2	3079.7	3046.0	3136.6	3278.4	3254.0	3071.5
42.5°	2805.4	2829.8	2862.3	2898.4	2953.0	2966.9	2932.1	2948.3	3095.9	3159.8	2955.3
45°	2657.8	2690.3	2699.6	2739.2	2796.1	2836.8	2835.6	2801.9	2920.4	2999.5	2870.5
47.5°	2506.7	2538.1	2554.4	2574.1	2616.0	2668.3	2697.3	2682.2	2705.4	2860.0	2757.7
50°	2351.0	2368.4	2401.0	2423.0	2450.9	2481.2	2550.9	2564.8	2532.3	2655.5	2633.4
52.5°	2203.4	2209.2	2231.3	2253.4	2290.6	2312.6	2368.4	2410.3	2407.9	2444.0	2495.1
55°	2088.4	2062.8	2067.4	2084.9	2109.3	2143.0	2174.4	2239.4	2261.5	2268.5	2349.8
57.5°	1631.6	1894.3	1917.5	1916.4	1945.4	1960.5	1989.6	2032.6	2111.6	2094.2	2184.8
60°	1482.9	1511.9	1731.6	1757.1	1767.6	1781.6	1816.4	1855.9	1914.0	1951.2	1990.7
62.5°	1130.8	1307.4	1373.6	1567.7	1597.9	1606.1	1629.3	1647.9	1708.3	1793.2	1776.9
65°	875.1	950.6	1152.8	1231.9	1396.9	1417.8	1450.3	1470.1	1487.5	1585.2	1589.8
67.5°	756.5	768.2	822.8	975.0	1079.6	1241.2	1260.9	1278.3	1305.1	1374.8	1417.8
70°	646.1	660.1	675.2	688.0	824.0	930.9	1080.8	1086.6	1104.0	1150.5	1248.1
72.5°	122.0	552.0	561.3	569.4	584.6	655.4	798.4	914.6	921.6	943.7	1033.1
75°	82.5	96.5	132.5	455.6	470.7	475.3	499.7	645.0	751.9	756.5	796.1
77.5°	59.3	66.2	80.2	95.3	242.9	364.9	370.7	397.4	507.9	588.0	595.0
80°	40.7	45.3	53.5	60.4	74.4	97.6	269.6	277.8	291.7	402.1	423.0
82.5°	23.2	26.7	31.4	38.4	44.2	55.8	72.1	93.0	189.4	202.2	268.5
85°	11.6	12.8	15.1	18.6	22.1	26.7	36.0	44.2	60.4	109.2	112.7
87.5°	5.8	5.8	5.8	5.8	9.3	10.5	12.8	16.3	20.9	31.4	40.7
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: P1213510

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2
2.5°	3860.6	3876.9	3890.8	3894.3	3894.3	3896.6	3900.1	3902.4	3904.8	3907.1	3904.8
5°	3853.6	3871.1	3882.7	3886.2	3886.2	3893.1	3899.0	3905.9	3909.4	3909.4	3907.1
7.5°	3836.2	3849.0	3864.1	3873.4	3874.6	3886.2	3896.6	3895.5	3900.1	3902.4	3908.3
10°	3813.0	3813.0	3838.5	3845.5	3851.3	3864.1	3867.6	3874.6	3890.8	3893.1	3908.3
12.5°	3801.3	3789.7	3819.9	3823.4	3843.2	3826.9	3847.8	3854.8	3838.5	3860.6	3831.6
15°	3749.0	3763.0	3758.3	3768.8	3803.7	3785.1	3842.0	3823.4	3865.3	3815.3	3903.6
17.5°	3706.0	3703.7	3722.3	3731.6	3738.6	3778.1	3793.2	3814.1	3830.4	3816.4	3851.3
20°	3674.7	3656.1	3670.0	3680.5	3704.9	3735.1	3744.4	3713.0	3767.6	3860.6	3882.7
22.5°	3615.4	3602.6	3618.9	3618.9	3656.1	3651.4	3686.3	3666.5	3717.7	3825.7	3938.5
25°	3535.2	3536.4	3553.8	3574.7	3581.7	3634.0	3652.6	3678.2	3742.1	3871.1	3939.6
27.5°	3453.9	3446.9	3457.3	3500.3	3536.4	3574.7	3580.5	3667.7	3754.9	3843.2	3903.6
30°	3372.5	3365.5	3372.5	3403.9	3446.9	3472.5	3536.4	3652.6	3733.9	3794.4	3851.3
32.5°	3285.4	3278.4	3294.7	3317.9	3393.4	3396.9	3523.6	3632.8	3696.7	3740.9	3730.5
35°	3192.4	3183.1	3198.2	3234.2	3303.9	3329.5	3462.0	3543.3	3615.4	3636.3	3587.5
37.5°	3080.8	3064.5	3083.1	3133.1	3206.3	3280.7	3391.1	3485.2	3523.6	3467.8	3409.7
40°	2964.6	2953.0	2985.5	3011.1	3097.1	3200.5	3327.2	3393.4	3369.0	3305.1	3241.2
42.5°	2861.2	2836.8	2865.8	2914.6	3012.3	3129.6	3231.9	3269.1	3211.0	3116.8	3042.5
45°	2734.5	2705.4	2740.3	2805.4	2910.0	3043.6	3123.8	3111.0	3012.3	2930.9	2828.6
47.5°	2602.0	2567.2	2602.0	2679.9	2797.3	2939.0	2997.1	2939.0	2814.7	2712.4	2629.9
50°	2471.9	2431.2	2464.9	2582.3	2697.3	2806.6	2805.4	2692.7	2618.3	2506.7	2434.7
52.5°	2342.9	2284.8	2318.5	2446.3	2561.3	2685.7	2593.9	2489.3	2399.8	2302.2	2278.9
55°	2183.7	2120.9	2166.2	2352.2	2440.5	2513.7	2367.3	2275.5	2187.1	2138.3	2109.3
57.5°	2032.6	1964.0	2003.5	2223.2	2288.2	2306.8	2172.0	2041.9	1989.6	1973.3	1931.5
60°	1876.8	1799.0	1836.2	2089.5	2134.8	2059.3	1926.8	1825.7	1815.3	1782.7	1750.2
62.5°	1728.1	1642.1	1665.3	1923.3	1944.3	1807.1	1685.1	1658.4	1632.8	1600.3	1582.8
65°	1557.3	1467.8	1500.3	1746.7	1726.9	1550.3	1481.7	1475.9	1442.2	1415.5	1441.0
67.5°	1400.4	1294.6	1339.9	1553.8	1464.3	1320.2	1292.3	1278.3	1251.6	1266.7	998.3
70°	1228.4	1113.3	1174.9	1345.8	1213.3	1118.0	1107.5	1086.6	1087.8	864.6	728.7
72.5°	1036.6	936.7	1026.2	1118.0	959.9	932.0	916.9	914.6	738.0	599.7	566.0
75°	868.1	767.0	863.5	898.3	764.7	746.1	744.9	615.9	484.6	462.5	452.1
77.5°	677.5	599.7	691.5	639.2	586.9	566.0	507.9	381.2	364.9	349.8	131.3
80°	456.7	462.5	516.0	440.4	418.4	356.8	281.2	269.6	232.4	93.0	73.2
82.5°	277.8	348.6	328.9	275.4	269.6	194.1	177.8	90.6	67.4	53.5	46.5
85°	144.1	176.6	169.7	149.9	111.6	99.9	55.8	43.0	34.9	26.7	22.1
87.5°	48.8	65.1	62.8	50.0	38.4	30.2	19.8	16.3	11.6	9.3	8.1
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: P1213510

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2
2.5°	3902.4	3902.4	3900.1	3902.4	3903.6	3901.3	3901.3	3903.6	3904.8	3905.9	3911.7
5°	3908.3	3910.6	3914.1	3921.0	3922.2	3936.1	3942.0	3945.4	3948.9	3950.1	3942.0
7.5°	3921.0	3929.2	3936.1	3935.0	3926.9	3904.8	3897.8	3892.0	3902.4	3929.2	3960.6
10°	3932.7	3895.5	3825.7	3921.0	3892.0	3918.7	3997.7	4015.2	4068.6	4144.2	4166.3
12.5°	3852.5	3954.7	3976.8	3869.9	4067.5	3994.3	4081.4	4158.1	4180.2	4256.9	4210.4
15°	3938.5	3988.4	4022.1	4129.1	4117.4	4180.2	4204.6	4189.5	4193.0	4212.7	4265.0
17.5°	3937.3	4037.3	4059.3	4131.4	4180.2	4181.4	4174.4	4167.4	4186.0	4201.1	4169.7
20°	4004.7	4037.3	4080.3	4109.3	4118.6	4130.2	4152.3	4134.9	4100.0	4066.3	4052.4
22.5°	3971.0	4044.2	4081.4	4086.1	4080.3	4044.2	4011.7	3962.9	3946.6	3929.2	3935.0
25°	3978.0	4011.7	4007.0	3988.4	3964.0	3896.6	3880.4	3859.4	3828.1	3752.5	3684.0
27.5°	3928.0	3910.6	3889.7	3844.3	3800.2	3764.2	3723.5	3656.1	3600.3	3518.9	3488.7
30°	3844.3	3774.6	3723.5	3696.7	3653.7	3593.3	3531.7	3449.2	3378.3	3362.1	3346.9
32.5°	3684.0	3615.4	3573.6	3508.5	3435.3	3363.2	3292.3	3259.8	3244.7	3247.0	3233.1
35°	3520.1	3459.7	3396.9	3299.3	3244.7	3172.6	3147.1	3140.1	3126.1	3111.0	3094.8
37.5°	3345.8	3274.9	3180.8	3122.7	3068.0	3039.0	3026.2	3015.7	2991.3	2964.6	2946.0
40°	3177.3	3049.4	2997.1	2940.2	2923.9	2911.1	2892.6	2867.0	2833.3	2828.6	2820.5
42.5°	2951.8	2860.0	2814.7	2803.1	2783.3	2761.2	2745.0	2717.1	2703.1	2712.4	2719.4
45°	2738.0	2691.5	2676.4	2662.4	2625.3	2593.9	2583.4	2574.1	2585.7	2636.9	2514.9
47.5°	2564.8	2546.2	2527.6	2504.4	2469.5	2446.3	2456.8	2466.0	2476.5	2101.1	1917.5
50°	2414.9	2389.3	2360.3	2334.7	2313.8	2311.5	2366.1	2202.2	1844.3	1835.0	1649.1
52.5°	2251.1	2212.7	2195.3	2180.2	2189.5	2224.3	1840.8	1708.3	1638.6	1423.6	1328.3
55°	2074.4	2040.7	2040.7	2054.7	2004.7	1624.7	1604.9	1387.6	1256.3	1219.1	1204.0
57.5°	1897.8	1894.3	1914.0	1750.2	1474.7	1414.3	1188.9	1141.2	1120.3	1115.6	1091.2
60°	1736.2	1768.8	1480.6	1362.0	1184.2	1068.0	1035.5	1029.7	1007.6	999.4	977.4
62.5°	1607.2	1333.0	1241.2	1013.4	954.1	939.0	921.6	913.4	893.7	789.1	231.3
65°	1161.0	1097.1	890.2	851.8	847.2	825.1	818.1	735.6	173.2	116.2	98.8
67.5°	876.2	777.5	750.7	743.8	721.7	677.5	201.0	115.1	98.8	86.0	75.5
70°	672.9	655.4	635.7	619.4	182.5	113.9	98.8	83.7	72.1	63.9	58.1
72.5°	550.9	539.2	313.8	119.7	97.6	82.5	73.2	63.9	55.8	51.1	46.5
75°	431.2	119.7	98.8	82.5	70.9	60.4	53.5	47.6	43.0	39.5	36.0
77.5°	97.6	79.0	67.4	56.9	51.1	45.3	40.7	34.9	31.4	27.9	23.2
80°	60.4	52.3	44.2	40.7	34.9	29.1	25.6	23.2	18.6	17.4	15.1
82.5°	39.5	31.4	27.9	23.2	18.6	17.4	15.1	11.6	10.5	9.3	8.1
85°	17.4	15.1	12.8	10.5	8.1	7.0	5.8	4.6	4.6	4.6	4.6
87.5°	5.8	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213510

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2
2.5°	3914.1	3935.0	3954.7	3948.9	3928.0	3895.5	3886.2	3873.4	3882.7	3902.4	3910.6
5°	3942.0	3930.3	3972.2	4033.8	4133.7	4143.0	4212.7	4229.0	4284.8	4319.7	4318.5
7.5°	3981.5	4146.5	4215.1	4289.4	4323.1	4315.0	4325.5	4317.3	4304.5	4298.7	4291.8
10°	4182.5	4308.0	4333.6	4333.6	4281.3	4210.4	4180.2	4127.9	4023.3	4025.6	4008.2
12.5°	4299.9	4344.1	4283.6	4232.5	4022.1	3940.8	3852.5	3810.6	3786.2	3749.0	3763.0
15°	4238.3	4175.5	4139.5	3974.5	3845.5	3699.1	3701.4	3675.8	3649.1	3651.4	3634.0
17.5°	4147.7	4097.7	3842.0	3728.1	3665.4	3608.4	3598.0	3564.3	3546.8	3541.0	3539.9
20°	4023.3	3843.2	3652.6	3624.7	3549.2	3484.1	3473.6	3484.1	3537.5	3442.2	3119.2
22.5°	3878.0	3618.9	3563.1	3484.1	3432.9	3407.4	3471.3	3180.8	2741.5	2794.9	2738.0
25°	3631.7	3518.9	3423.6	3363.2	3357.4	3200.5	2667.1	2611.3	2328.9	2177.8	2008.2
27.5°	3451.5	3402.7	3302.8	3292.3	3216.8	2617.1	2339.4	2032.6	1919.8	1902.4	1865.2
30°	3342.3	3272.6	3212.1	2948.3	2567.2	2106.9	1876.8	1833.8	1814.1	1793.2	1760.6
32.5°	3211.0	3144.7	3173.8	2478.8	2046.5	1814.1	1767.6	1736.2	1700.2	1686.3	1568.9
35°	3077.3	3047.1	2480.0	2083.7	1759.5	1703.7	1668.8	1636.3	1301.6	314.9	106.9
37.5°	2934.4	2927.4	2229.0	1729.3	1647.9	1595.6	1496.8	309.1	73.2	50.0	37.2
40°	2822.8	2230.1	1761.8	1621.2	1554.9	1472.4	206.9	51.1	32.5	19.8	12.8
42.5°	2748.4	2005.8	1577.0	1521.2	1377.1	152.2	52.3	22.1	12.8	10.5	8.1
45°	2118.6	1584.0	1473.6	1415.5	174.3	52.3	30.2	10.5	8.1	7.0	4.6
47.5°	1954.7	1438.7	1373.6	309.1	58.1	27.9	20.9	7.0	4.6	4.6	4.6
50°	1480.6	1329.5	1093.6	75.5	37.2	19.8	15.1	4.6	4.6	4.6	3.5
52.5°	1298.1	1227.2	117.4	50.0	29.1	15.1	9.3	3.5	3.5	3.5	3.5
55°	1186.5	778.6	69.7	38.4	24.4	13.9	5.8	3.5	3.5	3.5	2.3
57.5°	1085.4	104.6	51.1	32.5	22.1	12.8	3.5	3.5	3.5	3.5	2.3
60°	920.4	75.5	41.8	29.1	20.9	11.6	3.5	3.5	3.5	3.5	3.5
62.5°	119.7	59.3	36.0	25.6	15.1	9.3	2.3	3.5	3.5	3.5	3.5
65°	87.2	46.5	32.5	17.4	9.3	3.5	2.3	3.5	3.5	3.5	3.5
67.5°	67.4	38.4	24.4	15.1	8.1	2.3	2.3	3.5	3.5	3.5	3.5
70°	53.5	32.5	19.8	12.8	7.0	2.3	2.3	3.5	3.5	3.5	3.5
72.5°	41.8	23.2	13.9	7.0	4.6	2.3	2.3	3.5	3.5	3.5	3.5
75°	31.4	18.6	10.5	5.8	2.3	2.3	2.3	3.5	3.5	3.5	3.5
77.5°	20.9	11.6	8.1	4.6	4.6	4.6	5.8	5.8	3.5	3.5	3.5
80°	13.9	8.1	5.8	5.8	5.8	4.6	5.8	5.8	3.5	5.8	3.5
82.5°	7.0	5.8	5.8	4.6	4.6	3.5	4.6	4.6	4.6	4.6	3.5
85°	4.6	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.6	4.6	3.5
87.5°	2.3	2.3	2.3	2.3	3.5	3.5	3.5	3.5	4.6	4.6	3.5
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: P1213510

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2
2.5°	3900.1	3903.6	3894.3	3944.3	3918.7	3921.0	3931.5	3904.8	3910.6	3892.0	3879.2
5°	4323.1	4330.1	4337.1	4339.4	4344.1	4349.9	4342.9	4339.4	4332.4	4309.2	4284.8
7.5°	4256.9	4248.8	4245.3	4249.9	4258.1	4261.5	4255.7	4263.9	4294.1	4306.9	4315.0
10°	3908.3	3871.1	3896.6	3893.1	3864.1	3961.7	3935.0	3950.1	3960.6	4067.5	4132.5
12.5°	3742.1	3765.3	3721.2	3699.1	3728.1	3747.9	3767.6	3725.8	3783.9	3757.2	3843.2
15°	3602.6	3588.7	3584.0	3585.2	3579.4	3607.3	3614.2	3623.5	3631.7	3667.7	3681.6
17.5°	3539.9	3563.1	3572.4	3579.4	3567.8	3555.0	3542.2	3523.6	3529.4	3520.1	3546.8
20°	2901.8	2824.0	2819.3	2864.7	2814.7	2842.6	2910.0	3360.9	3345.8	3521.3	3462.0
22.5°	2421.9	2348.7	2285.9	2231.3	2309.2	2341.7	2467.2	2609.0	2839.1	2803.1	3052.9
25°	1978.0	1951.2	1935.0	1926.8	1932.6	1930.3	1958.2	2024.4	2129.0	2375.4	2693.8
27.5°	1850.1	1837.3	1831.5	1812.9	1826.9	1822.2	1844.3	1858.3	1889.6	1914.0	2017.5
30°	1749.0	1733.9	1723.4	1703.7	1717.6	1718.8	1725.8	1761.8	1774.6	1795.5	1828.0
32.5°	639.2	376.5	353.3	335.9	367.2	478.8	840.2	1468.9	1675.8	1692.1	1729.3
35°	62.8	52.3	46.5	46.5	47.6	52.3	69.7	183.6	335.9	1298.1	1624.7
37.5°	24.4	20.9	17.4	16.3	17.4	19.8	26.7	34.9	47.6	98.8	440.4
40°	10.5	9.3	8.1	8.1	8.1	8.1	9.3	11.6	17.4	32.5	51.1
42.5°	7.0	5.8	5.8	5.8	5.8	5.8	5.8	5.8	8.1	10.5	20.9
45°	4.6	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.6	5.8	9.3
47.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.6
50°	3.5	3.5	3.5	3.5	2.3	3.5	2.3	3.5	3.5	3.5	3.5
52.5°	3.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.5	3.5
55°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.5
57.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
60°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
62.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.5	3.5	2.3
65°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.5	2.3
67.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
70°	3.5	3.5	2.3	3.5	2.3	2.3	3.5	3.5	3.5	2.3	2.3
72.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	7.0	7.0	4.6
75°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	5.8	7.0	5.8
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	5.8	5.8	5.8
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.6	4.6	4.6
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.6	4.6	4.6
85°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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: P1213510

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2
2.5°	3857.1	3856.0	3880.4	3899.0	3892.0	3899.0	3907.1	3908.3	3910.6	3901.3	3897.8
5°	4238.3	4202.3	4132.5	4082.6	4024.5	3918.7	3866.4	3872.2	3873.4	3869.9	3874.6
7.5°	4311.5	4308.0	4283.6	4273.2	4233.7	4158.1	4037.3	4016.3	3965.2	3932.7	3905.9
10°	4127.9	4211.6	4233.7	4270.8	4294.1	4280.1	4177.9	4162.8	4130.2	4093.0	4101.2
12.5°	3929.2	3997.7	4001.2	4203.4	4248.8	4253.4	4213.9	4234.8	4239.5	4155.8	4107.0
15°	3685.1	3717.7	3786.2	3974.5	4111.6	4197.6	4223.2	4234.8	4177.9	4174.4	4154.6
17.5°	3578.2	3599.1	3630.5	3736.3	3944.3	4071.0	4179.0	4170.9	4193.0	4176.7	4126.7
20°	3443.4	3460.8	3516.6	3570.1	3672.3	3840.9	4043.1	4058.2	4087.2	4083.7	4097.7
22.5°	3441.1	3379.5	3388.8	3430.6	3537.5	3688.6	3903.6	3953.6	3972.2	3985.0	4000.1
25°	2729.9	3219.1	3308.6	3335.3	3405.1	3493.4	3746.7	3765.3	3800.2	3857.1	3899.0
27.5°	2364.9	2697.3	3055.3	3241.2	3285.4	3358.6	3509.6	3537.5	3656.1	3670.0	3735.1
30°	1866.4	2123.2	2657.8	3105.2	3178.4	3229.6	3336.5	3392.3	3443.4	3499.2	3567.8
32.5°	1756.0	1796.7	2093.0	2569.5	3138.9	3100.6	3179.6	3213.3	3269.1	3317.9	3367.9
35°	1654.9	1682.8	1745.5	2104.6	2556.7	2994.8	3048.3	3070.4	3101.7	3138.9	3175.0
37.5°	1549.1	1591.0	1634.0	1730.4	2364.9	2911.1	2910.0	2935.6	2954.1	2985.5	3015.7
40°	281.2	1460.8	1530.5	1593.3	1833.8	2321.9	2779.8	2791.4	2804.2	2824.0	2855.4
42.5°	45.3	244.0	1434.1	1494.5	1563.1	2079.1	2720.6	2672.9	2664.8	2678.7	2706.6
45°	23.2	59.3	288.2	1395.7	1457.3	1658.4	2224.3	2590.4	2582.3	2555.5	2561.3
47.5°	17.4	37.2	70.9	482.3	1364.3	1423.6	2052.3	2030.2	2184.8	2481.2	2435.8
50°	15.1	25.6	41.8	98.8	1205.1	1310.9	1580.5	1846.6	1928.0	1938.4	2294.1
52.5°	13.9	17.4	30.2	63.9	253.3	1212.1	1285.3	1378.3	1515.4	1809.4	1802.5
55°	12.8	16.3	25.6	43.0	88.3	1092.4	1167.9	1185.4	1214.4	1355.0	1541.0
57.5°	7.0	15.1	24.4	37.2	66.2	199.9	1059.9	1073.8	1097.1	1102.9	1169.1
60°	3.5	13.9	22.1	32.5	48.8	93.0	953.0	969.2	983.2	985.5	1006.4
62.5°	2.3	12.8	18.6	30.2	40.7	66.2	225.5	460.2	875.1	875.1	899.5
65°	2.3	9.3	11.6	19.8	37.2	54.6	95.3	110.4	215.0	528.8	789.1
67.5°	2.3	3.5	10.5	16.3	27.9	41.8	69.7	81.3	97.6	111.6	206.9
70°	2.3	2.3	9.3	10.5	17.4	31.4	50.0	56.9	66.2	75.5	87.2
72.5°	2.3	2.3	8.1	8.1	11.6	20.9	38.4	41.8	47.6	53.5	61.6
75°	5.8	4.6	7.0	7.0	8.1	16.3	29.1	32.5	34.9	39.5	45.3
77.5°	5.8	5.8	5.8	5.8	5.8	10.5	18.6	20.9	24.4	26.7	31.4
80°	4.6	4.6	4.6	5.8	5.8	7.0	11.6	12.8	13.9	17.4	18.6
82.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	7.0	8.1	10.5
85°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.6	4.6	4.6	4.6
87.5°	3.5	3.5	3.5	2.3	2.3	3.5	3.5	3.5	3.5	3.5	3.5
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: P1213510

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2	3872.2
2.5°	3896.6	3889.7	3883.9	3887.3	3876.9	3872.2	3875.7	3876.9	3879.2	3885.0	3886.2
5°	3886.2	3883.9	3894.3	3900.1	3897.8	3900.1	3900.1	3895.5	3888.5	3893.1	3882.7
7.5°	3879.2	3864.1	3852.5	3854.8	3843.2	3857.1	3869.9	3888.5	3894.3	3894.3	3882.7
10°	3998.9	3982.6	3917.6	3873.4	3844.3	3818.8	3879.2	3817.6	3846.7	3736.3	3862.9
12.5°	4097.7	4119.8	4090.7	3969.9	3948.9	3872.2	3916.4	3840.9	3818.8	3692.1	3732.8
15°	4137.2	4095.4	4086.1	4052.4	4007.0	3985.0	3866.4	3853.6	3817.6	3831.6	3778.1
17.5°	4102.3	4123.3	4095.4	4073.3	4026.8	3974.5	3903.6	3840.9	3790.9	3679.3	3773.4
20°	4068.6	4096.5	4012.8	4026.8	4031.4	3971.0	3933.8	3881.5	3818.8	3714.2	3632.8
22.5°	4012.8	3993.1	4000.1	3979.1	3961.7	3969.9	3918.7	3882.7	3776.9	3729.3	3618.9
25°	3922.2	3915.2	3933.8	3931.5	3889.7	3875.7	3850.2	3811.8	3770.0	3693.3	3602.6
27.5°	3774.6	3810.6	3843.2	3858.3	3836.2	3799.0	3785.1	3763.0	3733.9	3656.1	3588.7
30°	3618.9	3659.6	3696.7	3729.3	3749.0	3732.8	3720.0	3707.2	3663.0	3611.9	3536.4
32.5°	3441.1	3494.5	3545.7	3585.2	3628.2	3641.0	3631.7	3621.2	3584.0	3537.5	3477.1
35°	3235.4	3308.6	3383.0	3453.9	3472.5	3502.7	3532.9	3515.5	3495.7	3449.2	3393.4
37.5°	3061.1	3113.4	3166.8	3256.3	3321.4	3359.7	3413.2	3420.2	3386.5	3364.4	3291.2
40°	2880.9	2928.6	3006.4	3058.7	3148.2	3192.4	3249.3	3274.9	3266.8	3254.0	3190.1
42.5°	2739.2	2762.4	2813.5	2860.0	2948.3	3039.0	3089.0	3116.8	3145.9	3135.4	3102.9
45°	2588.1	2609.0	2626.4	2667.1	2753.1	2833.3	2894.9	2936.7	2989.0	3013.4	2973.9
47.5°	2438.2	2444.0	2464.9	2498.6	2549.7	2611.3	2714.7	2777.5	2826.3	2874.0	2848.4
50°	2323.1	2302.2	2305.7	2326.6	2368.4	2428.9	2503.2	2591.6	2647.3	2705.4	2711.3
52.5°	2030.2	2199.9	2159.2	2170.9	2192.9	2222.0	2299.9	2387.0	2455.6	2505.6	2555.5
55°	1703.7	1737.4	2064.0	2017.5	2031.4	2057.0	2093.0	2180.2	2246.4	2316.1	2385.9
57.5°	1321.3	1572.4	1585.2	1887.3	1880.3	1882.7	1912.9	1962.8	2029.1	2116.2	2175.5
60°	1027.3	1133.1	1338.8	1443.4	1708.3	1717.6	1735.1	1764.1	1821.1	1903.6	1997.7
62.5°	906.5	920.4	993.6	1150.5	1322.5	1530.5	1567.7	1572.4	1597.9	1680.4	1789.7
65°	796.1	805.4	827.4	843.7	987.8	1188.9	1367.8	1396.9	1413.2	1462.0	1554.9
67.5°	548.5	693.8	713.6	725.2	739.1	832.1	1054.1	1201.6	1220.2	1263.2	1344.6
70°	105.8	219.6	600.8	613.6	620.6	641.5	677.5	912.3	1035.5	1076.1	1113.3
72.5°	72.1	84.8	102.3	241.7	511.3	523.0	531.1	561.3	769.3	887.9	907.6
75°	52.3	58.1	68.6	84.8	104.6	340.5	421.9	437.0	452.1	624.1	724.0
77.5°	37.2	41.8	46.5	54.6	63.9	82.5	118.5	326.6	341.7	349.8	493.9
80°	20.9	25.6	31.4	36.0	40.7	46.5	60.4	75.5	168.5	246.4	259.2
82.5°	11.6	13.9	16.3	19.8	22.1	27.9	33.7	40.7	53.5	79.0	167.3
85°	5.8	5.8	5.8	8.1	9.3	12.8	15.1	17.4	24.4	33.7	46.5
87.5°	3.5	3.5	4.6	4.6	4.6	5.8	5.8	5.8	7.0	10.5	15.1
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: P1213510

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	3872.2	3872.2	3872.2	3872.2	3872.2
2.5°	3887.3	3883.9	3883.9	3897.8	3894.3
5°	3880.4	3876.9	3875.7	3890.8	3883.9
7.5°	3874.6	3861.8	3858.3	3872.2	3866.4
10°	3851.3	3842.0	3847.8	3843.2	3840.9
12.5°	3811.8	3806.0	3781.6	3783.9	3803.7
15°	3740.9	3764.2	3722.3	3759.5	3767.6
17.5°	3610.8	3663.0	3703.7	3725.8	3729.3
20°	3668.9	3686.3	3665.4	3666.5	3680.5
22.5°	3593.3	3601.5	3607.3	3600.3	3630.5
25°	3472.5	3441.1	3508.5	3522.4	3571.2
27.5°	3435.3	3409.7	3441.1	3438.8	3479.4
30°	3405.1	3322.5	3336.5	3358.6	3408.5
32.5°	3362.1	3231.9	3217.9	3266.8	3322.5
35°	3286.5	3163.3	3130.8	3162.2	3245.8
37.5°	3222.6	3068.0	3003.0	3044.8	3154.0
40°	3127.3	2993.7	2892.6	2929.7	3058.7
42.5°	3013.4	2929.7	2774.0	2799.6	2947.2
45°	2898.4	2824.0	2659.0	2671.7	2847.2
47.5°	2781.0	2712.4	2539.3	2541.6	2719.4
50°	2665.9	2575.3	2432.3	2391.7	2583.4
52.5°	2516.0	2432.3	2324.3	2258.0	2454.4
55°	2374.2	2280.1	2201.1	2098.8	2308.0
57.5°	2235.9	2131.4	2077.9	1946.6	2141.8
60°	2046.5	1996.5	1917.5	1792.0	1991.9
62.5°	1852.4	1836.2	1756.0	1625.8	1807.1
65°	1625.8	1664.2	1581.7	1470.1	1615.4
67.5°	1412.0	1480.6	1389.9	1321.3	1430.6
70°	1184.2	1263.2	1212.1	1187.7	1234.2
72.5°	959.9	1036.6	1041.3	1023.8	1038.9
75°	741.4	826.3	872.8	846.0	849.5
77.5°	562.5	603.1	654.3	675.2	670.6
80°	347.5	418.4	460.2	503.2	488.1
82.5°	175.5	234.8	285.9	332.4	310.3
85°	73.2	94.1	131.3	173.2	166.2
87.5°	22.1	37.2	39.5	55.8	52.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)