

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: P1214197

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

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33524)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-62SL-RM-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

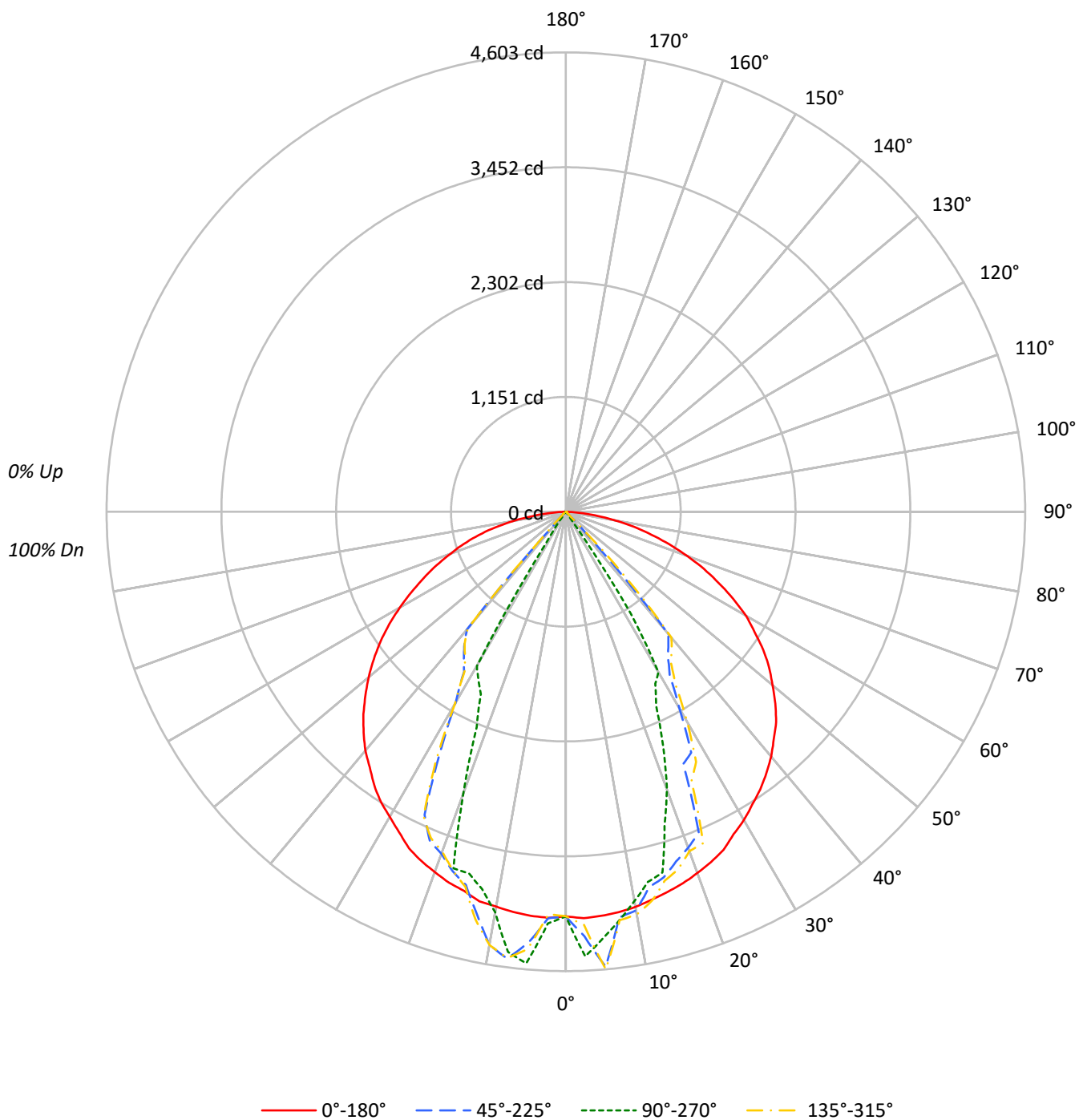
Lumens per Lamp: N/A
Luminaire Lumens: 5762.9 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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°	32752	32752	32752	32752
5°	32886	33686	32876	35673
10°	32807	30481	32787	31362
15°	32718	28451	32637	28525
20°	32756	22410	32662	22686
25°	32850	16217	32690	15304
30°	32700	14226	32354	13676
35°	32797	313	32316	380
40°	32910	68	32122	68
45°	33025	41	31785	30
50°	32774	31	31270	31
55°	32580	22	30579	22
60°	31966	24	29467	24
65°	30300	38	28140	25
70°	28108	42	26759	42
75°	24863	47	25272	47
80°	20196	54	21351	54
85°	11880	63	12133	63

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 35660 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.6	7.1
10°-20°	1109.1	19.2
20°-30°	1411.3	24.5
30°-40°	1192.2	20.7
40°-50°	779.4	13.5
50°-60°	491.1	8.5
60°-70°	261.4	4.5
70°-80°	95.3	1.7
80°-90°	16.4	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2927.1	50.8
0°-40°	4119.3	71.5
0°-60°	5389.8	93.5
0°-90°	5762.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5762.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4053	4053	4053	4053	4053	
5°	4065	4289	4064	4542	4065	387
15°	3944	3743	3934	3752	3944	1115
25°	3738	2137	3720	2017	3738	1719
35°	3397	40	3348	49	3397	2125
45°	2980	5	2868	4	2980	2292
55°	2416	2	2267	2	2416	2152
65°	1691	4	1570	2	1691	1675
75°	889	4	904	4	889	944
85°	174	4	178	4	174	220
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°	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0
2.5°	4076.1	4078.5	4079.7	4082.2	4085.8	4087.0	4089.5	4087.0	4087.0	4087.0	4087.0
5°	4065.1	4070.0	4073.7	4078.5	4087.0	4088.2	4098.0	4099.2	4104.1	4113.8	4121.1
7.5°	4046.9	4051.8	4059.1	4071.2	4083.4	4096.8	4113.8	4132.0	4157.6	4181.9	4212.3
10°	4020.1	4026.2	4034.7	4045.7	4105.3	4113.8	4151.5	4203.8	4218.4	4295.0	4352.2
12.5°	3981.2	4001.9	4023.8	4033.5	4090.7	4180.7	4307.2	4281.7	4253.7	4504.2	4500.6
15°	3943.5	3971.5	3960.5	4039.6	4091.9	4248.8	4195.3	4309.6	4518.8	4467.8	4470.2
17.5°	3903.4	3909.4	3970.3	4035.9	4129.6	4209.9	4275.6	4432.5	4473.8	4477.5	4432.5
20°	3852.3	3881.5	3970.3	4029.9	4188.0	4225.7	4368.0	4448.3	4431.3	4389.9	4313.3
22.5°	3800.0	3888.8	3978.8	4062.7	4173.4	4274.4	4344.9	4382.6	4293.8	4130.8	4043.2
25°	3737.9	3790.2	3908.2	4031.1	4169.7	4228.1	4269.5	4208.7	4093.1	3947.1	3800.0
27.5°	3641.8	3725.8	3876.6	4015.3	4140.6	4211.1	4144.2	3998.2	3812.1	3716.0	3649.1
30°	3567.6	3677.1	3801.2	3935.0	4065.1	4106.5	3936.2	3769.6	3641.8	3545.7	3531.1
32.5°	3477.6	3633.3	3751.3	3879.0	3988.5	3933.8	3768.3	3553.0	3447.2	3410.7	3425.3
35°	3397.3	3515.3	3669.8	3795.1	3874.2	3751.3	3489.8	3356.0	3304.9	3325.6	3298.8
37.5°	3301.3	3456.9	3599.3	3707.5	3680.8	3495.9	3274.5	3189.3	3195.4	3178.4	3127.3
40°	3201.5	3349.9	3498.3	3600.5	3506.8	3224.6	3077.4	3059.2	3062.8	3008.1	2935.1
42.5°	3084.7	3219.8	3368.2	3460.6	3258.7	3038.5	2938.8	2941.2	2909.6	2832.9	2794.0
45°	2980.1	3104.2	3258.7	3267.2	3019.1	2835.4	2806.2	2774.6	2704.0	2678.5	2649.3
47.5°	2846.3	2983.8	3111.5	3065.3	2784.3	2670.0	2648.1	2578.7	2543.4	2524.0	2499.7
50°	2704.0	2842.7	2959.4	2828.1	2562.9	2536.1	2464.4	2409.6	2385.3	2364.6	2342.7
52.5°	2569.0	2683.3	2802.5	2576.3	2392.6	2367.1	2285.6	2253.9	2229.6	2206.5	2201.6
55°	2415.7	2516.7	2598.2	2336.7	2229.6	2170.0	2111.6	2089.7	2066.6	2055.7	2073.9
57.5°	2241.8	2356.1	2344.0	2100.7	2053.2	1966.9	1945.0	1930.4	1913.4	1920.7	1768.6
60°	2084.9	2172.5	2112.8	1928.0	1847.7	1789.3	1769.8	1760.1	1769.8	1621.4	1425.6
62.5°	1891.5	1990.0	1869.6	1726.0	1640.9	1612.9	1595.9	1609.3	1467.0	1304.0	1256.5
65°	1690.8	1797.8	1620.2	1509.5	1456.0	1431.7	1430.5	1317.3	1177.5	1114.2	1114.2
67.5°	1497.4	1608.1	1379.4	1286.9	1266.2	1268.7	1198.1	1026.6	987.7	945.1	822.3
70°	1291.8	1389.1	1139.7	1083.8	1071.6	1063.1	891.6	845.4	799.2	686.0	676.3
72.5°	1087.4	1134.9	915.9	902.6	900.1	748.1	714.0	634.9	581.4	568.0	562.0
75°	889.2	874.6	723.7	735.9	620.4	566.8	512.1	465.9	458.6	453.7	113.1
77.5°	701.9	628.9	570.5	496.3	444.0	377.1	366.1	358.8	236.0	85.1	69.3
80°	510.9	407.5	379.5	322.3	274.9	264.0	270.0	82.7	65.7	54.7	47.4
82.5°	324.8	260.3	212.9	186.1	181.2	79.1	58.4	47.4	41.4	35.3	29.2
85°	173.9	115.6	107.0	90.0	53.5	36.5	30.4	23.1	19.5	15.8	14.6
87.5°	54.7	46.2	37.7	30.4	18.2	12.2	9.7	8.5	7.3	6.1	6.1
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):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0
2.5°	4084.6	4087.0	4085.8	4089.5	4089.5	4094.3	4098.0	4101.6	4108.9	4112.6	4140.6
5°	4136.9	4143.0	4161.2	4178.3	4198.9	4205.0	4240.3	4248.8	4290.2	4295.0	4431.3
7.5°	4253.7	4276.8	4320.6	4364.4	4408.2	4436.1	4484.8	4515.2	4548.0	4577.2	4685.5
10°	4394.8	4433.7	4476.3	4520.1	4545.6	4599.1	4628.3	4633.2	4624.7	4577.2	4402.1
12.5°	4533.4	4572.4	4554.1	4562.6	4593.0	4498.2	4511.5	4443.4	4490.9	4256.1	4082.2
15°	4514.0	4511.5	4466.5	4320.6	4344.9	4163.7	4090.7	4034.7	4079.7	4055.4	4028.6
17.5°	4455.6	4344.9	4267.1	4091.9	4017.7	3966.6	3967.8	3969.0	3947.1	3970.3	3902.1
20°	4208.7	4084.6	3969.0	3907.0	3885.1	3848.6	3866.9	3848.6	3849.8	3857.1	3752.5
22.5°	3880.2	3842.5	3775.6	3795.1	3787.8	3820.6	3796.3	3758.6	3770.8	3716.0	3637.0
25°	3747.7	3703.9	3701.4	3708.7	3697.8	3683.2	3661.3	3604.1	3600.5	3583.5	3547.0
27.5°	3613.9	3616.3	3623.6	3601.7	3562.8	3533.6	3500.7	3472.8	3483.7	3464.2	3414.4
30°	3521.4	3520.2	3476.4	3456.9	3385.2	3386.4	3377.9	3360.9	3349.9	3351.1	3319.5
32.5°	3390.0	3352.3	3302.5	3278.1	3272.1	3250.2	3233.1	3236.8	3245.3	3214.9	3247.7
35°	3255.0	3177.2	3169.9	3149.2	3129.7	3115.1	3121.2	3096.9	3095.7	3092.0	2824.4
37.5°	3073.8	3036.1	3032.4	3010.5	2997.2	2993.5	2970.4	2974.0	2985.0	3004.5	2408.4
40°	2924.2	2890.1	2881.6	2880.4	2851.2	2848.8	2854.8	2878.0	2893.8	2772.1	2295.3
42.5°	2763.6	2766.0	2739.3	2722.3	2725.9	2736.9	2766.0	2685.8	2326.9	2217.5	2098.3
45°	2626.2	2614.0	2599.4	2594.5	2626.2	2604.3	2283.1	2106.8	2064.2	2059.3	1724.8
47.5°	2482.6	2479.0	2472.9	2476.5	2296.5	2047.2	1974.2	1951.1	1958.4	1953.5	1481.5
50°	2337.9	2342.7	2342.7	2045.9	1878.1	1836.7	1842.8	1863.5	1734.6	1619.0	1380.6
52.5°	2212.6	2174.9	1863.5	1756.5	1718.7	1737.0	1693.2	1531.4	1414.6	1346.5	1277.2
55°	1980.3	1702.9	1633.6	1616.6	1629.9	1468.2	1368.4	1263.8	1233.4	1226.1	1186.0
57.5°	1558.2	1502.2	1508.3	1440.2	1285.7	1194.5	1154.3	1139.7	1126.4	1116.6	97.3
60°	1378.2	1394.0	1276.0	1130.0	1068.0	1055.8	1046.1	1032.7	1030.3	1013.2	62.0
62.5°	1261.4	1109.3	1007.2	970.7	956.1	952.4	934.2	928.1	788.2	108.3	46.2
65°	951.2	889.2	869.7	861.2	845.4	845.4	701.9	110.7	90.0	77.8	41.4
67.5°	776.0	771.2	761.5	750.5	510.9	107.0	93.7	81.5	70.5	62.0	36.5
70°	656.8	654.4	596.0	109.5	91.2	80.3	70.5	63.3	58.4	52.3	32.8
72.5°	538.9	109.5	92.4	80.3	69.3	63.3	57.2	51.1	46.2	42.6	26.8
75°	83.9	74.2	65.7	59.6	54.7	48.7	43.8	40.1	38.9	34.1	18.2
77.5°	60.8	52.3	47.4	42.6	37.7	34.1	29.2	25.5	23.1	19.5	13.4
80°	42.6	37.7	34.1	28.0	24.3	20.7	18.2	15.8	14.6	12.2	6.1
82.5°	24.3	20.7	18.2	14.6	13.4	10.9	9.7	8.5	8.5	6.1	6.1
85°	10.9	10.9	8.5	7.3	6.1	6.1	6.1	4.9	4.9	3.6	3.6
87.5°	4.9	4.9	4.9	4.9	4.9	3.6	3.6	3.6	3.6	3.6	2.4
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):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0
2.5°	4179.5	4195.3	4225.7	4257.3	4222.0	4348.6	4338.8	4381.4	4404.5	4415.5	4441.0
5°	4551.7	4622.2	4645.3	4576.0	4535.9	4494.5	4400.9	4330.3	4338.8	4315.7	4231.8
7.5°	4544.4	4393.6	4190.4	4098.0	4090.7	4079.7	4108.9	4126.0	4128.4	4127.2	4124.7
10°	4160.0	4082.2	4068.8	4056.6	4061.5	4016.5	3995.8	3937.4	3969.0	3952.0	3958.1
12.5°	4043.2	4025.0	3953.2	3853.5	3913.1	3868.1	3842.5	3859.6	3840.1	3821.9	3815.8
15°	3973.9	3855.9	3815.8	3791.5	3774.4	3764.7	3773.2	3753.7	3747.7	3744.0	3752.5
17.5°	3830.4	3782.9	3739.1	3674.7	3675.9	3672.2	3696.6	3733.1	3735.5	3548.2	3379.1
20°	3717.3	3678.3	3622.4	3582.2	3637.0	3539.7	3163.8	2985.0	2957.0	2957.0	2961.9
22.5°	3627.2	3540.9	3544.5	3481.3	2969.2	2864.6	2867.0	2878.0	2828.1	2657.8	2639.5
25°	3504.4	3491.0	3224.6	2786.7	2790.4	2708.9	2583.6	2407.2	2216.2	2216.2	2184.6
27.5°	3411.9	3128.5	2739.3	2721.0	2447.4	2274.6	2167.6	2005.8	1983.9	1963.2	1965.7
30°	3332.9	2646.8	2656.6	2274.6	2072.7	1929.2	1920.7	1893.9	1880.5	1876.9	1863.5
32.5°	2634.7	2577.5	2223.5	1936.5	1857.4	1834.3	1823.4	1792.9	1791.7	1768.6	1608.1
35°	2470.5	2262.5	1861.1	1783.2	1760.1	1738.2	1720.0	1154.3	136.2	54.7	47.4
37.5°	2283.1	1890.3	1721.2	1685.9	1664.0	1229.8	122.9	42.6	30.4	21.9	19.5
40°	1935.3	1688.3	1634.8	1595.9	658.1	42.6	26.8	20.7	12.2	10.9	9.7
42.5°	1632.4	1591.0	1533.9	467.1	48.7	20.7	13.4	9.7	8.5	8.5	7.3
45°	1527.8	1491.3	617.9	46.2	30.4	9.7	8.5	8.5	7.3	4.9	4.9
47.5°	1430.5	1259.0	56.0	29.2	19.5	8.5	7.3	4.9	4.9	4.9	3.6
50°	1327.1	69.3	38.9	21.9	12.2	4.9	4.9	4.9	4.9	3.6	3.6
52.5°	248.1	48.7	31.6	19.5	6.1	4.9	4.9	4.9	3.6	3.6	3.6
55°	58.4	38.9	29.2	17.0	4.9	4.9	4.9	3.6	3.6	3.6	2.4
57.5°	43.8	29.2	23.1	15.8	4.9	3.6	3.6	3.6	3.6	3.6	2.4
60°	36.5	20.7	18.2	14.6	3.6	3.6	3.6	3.6	3.6	3.6	2.4
62.5°	25.5	17.0	13.4	10.9	3.6	3.6	3.6	3.6	3.6	3.6	3.6
65°	20.7	13.4	10.9	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
67.5°	18.2	10.9	7.3	2.4	3.6	3.6	3.6	3.6	3.6	3.6	3.6
70°	14.6	3.6	3.6	2.4	3.6	3.6	3.6	3.6	3.6	3.6	3.6
72.5°	12.2	3.6	2.4	2.4	3.6	3.6	3.6	3.6	3.6	3.6	3.6
75°	12.2	6.1	2.4	2.4	3.6	3.6	4.9	4.9	3.6	3.6	3.6
77.5°	8.5	6.1	2.4	2.4	3.6	3.6	4.9	4.9	3.6	3.6	3.6
80°	4.9	6.1	2.4	3.6	3.6	7.3	8.5	4.9	3.6	3.6	3.6
82.5°	4.9	6.1	7.3	7.3	3.6	6.1	7.3	6.1	4.9	3.6	3.6
85°	4.9	3.6	4.9	6.1	3.6	6.1	6.1	4.9	4.9	3.6	3.6
87.5°	2.4	3.6	3.6	4.9	4.9	4.9	6.1	4.9	4.9	4.9	3.6
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: P1214197

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

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0
2.5°	4453.2	4458.0	4381.4	4354.6	4377.7	4372.9	4352.2	4275.6	4267.1	4216.0	4141.8
5°	4256.1	4289.0	4248.8	4318.1	4285.3	4318.1	4417.9	4464.1	4539.5	4585.7	4602.8
7.5°	4118.7	4126.0	4126.0	4132.0	4138.1	4139.3	4132.0	4127.2	4106.5	4080.9	4127.2
10°	3952.0	3960.5	3975.1	3972.7	3971.5	3997.0	4003.1	4055.4	4053.0	4062.7	4098.0
12.5°	3865.7	3800.0	3859.6	3843.8	3865.7	3831.6	3894.8	3883.9	3887.5	3916.7	3992.2
15°	3722.1	3742.8	3757.4	3757.4	3765.9	3758.6	3751.3	3801.2	3831.6	3832.8	3827.9
17.5°	3446.0	3289.1	3449.6	3408.3	3737.9	3746.4	3718.5	3695.4	3695.4	3713.6	3752.5
20°	2958.2	2961.9	2963.1	2978.9	2998.4	2997.2	2998.4	3477.6	3705.1	3652.8	3617.5
22.5°	2593.3	2548.3	2632.2	2626.2	2730.8	2846.3	2957.0	2946.1	2953.4	3291.5	3595.6
25°	2078.8	2137.2	2089.7	2110.4	2228.4	2365.9	2451.0	2673.6	2915.7	2898.6	2977.7
27.5°	1957.2	1941.3	1963.2	1963.2	1979.0	1997.3	2044.7	2170.0	2385.3	2611.6	2825.6
30°	1841.6	1855.0	1857.4	1879.3	1891.5	1903.6	1910.9	1958.4	2007.0	2163.9	2427.9
32.5°	1383.0	1212.7	1595.9	1699.3	1786.9	1807.5	1822.1	1841.6	1876.9	1900.0	2032.6
35°	40.1	40.1	42.6	48.7	62.0	418.4	1593.5	1756.5	1779.6	1808.8	1833.1
37.5°	19.5	14.6	17.0	18.2	21.9	30.4	43.8	136.2	1516.8	1715.1	1741.9
40°	8.5	8.5	8.5	8.5	9.7	12.2	18.2	30.4	46.2	1220.0	1645.8
42.5°	7.3	7.3	7.3	7.3	7.3	7.3	8.5	10.9	21.9	52.3	863.6
45°	4.9	4.9	3.6	4.9	4.9	6.1	7.3	7.3	9.7	32.8	59.6
47.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	6.1	7.3	21.9	31.6
50°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	17.0	21.9
52.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	7.3	19.5
55°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6	3.6	4.9	17.0
57.5°	2.4	2.4	2.4	2.4	2.4	3.6	2.4	2.4	3.6	3.6	15.8
60°	2.4	2.4	2.4	2.4	2.4	3.6	3.6	3.6	3.6	3.6	14.6
62.5°	3.6	3.6	2.4	3.6	2.4	2.4	3.6	3.6	3.6	3.6	9.7
65°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	2.4	3.6
67.5°	3.6	3.6	3.6	3.6	2.4	3.6	2.4	3.6	3.6	2.4	2.4
70°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	2.4	2.4	2.4	2.4
72.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	2.4	2.4	2.4	2.4
75°	3.6	3.6	3.6	3.6	3.6	3.6	4.9	4.9	2.4	2.4	2.4
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	6.1	7.3	6.1	6.1	2.4
80°	3.6	3.6	3.6	3.6	3.6	3.6	6.1	6.1	6.1	6.1	8.5
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	4.9	4.9	4.9	4.9	6.1
85°	3.6	3.6	3.6	3.6	3.6	3.6	4.9	4.9	4.9	3.6	4.9
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.9	3.6	3.6	3.6
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: P1214197

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

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0
2.5°	4147.9	4106.5	4093.1	4065.1	4062.7	4065.1	4059.1	4050.5	4055.4	4046.9	4039.6
5°	4612.5	4501.8	4430.0	4334.0	4201.4	4172.2	4164.9	4123.5	4108.9	4104.1	4084.6
7.5°	4236.6	4438.6	4560.2	4601.6	4445.9	4409.4	4366.8	4332.7	4299.9	4237.9	4200.2
10°	4070.0	4079.7	4196.5	4332.7	4554.1	4584.5	4607.6	4533.4	4512.8	4354.6	4320.6
12.5°	4031.1	4032.3	4045.7	4128.4	4302.3	4321.8	4403.3	4447.1	4500.6	4531.0	4506.7
15°	3853.5	3952.0	4025.0	4032.3	4048.1	4082.2	4106.5	4258.5	4323.0	4495.7	4486.0
17.5°	3770.8	3802.4	3908.2	3994.6	3980.0	3967.8	3987.3	4008.0	4070.0	4242.7	4240.3
20°	3633.3	3734.3	3791.5	3881.5	3963.0	3966.6	3944.7	3932.6	3908.2	3936.2	3961.7
22.5°	3574.9	3590.7	3697.8	3761.0	3853.5	3886.3	3891.2	3892.4	3879.0	3864.4	3857.1
25°	3568.9	3519.0	3573.7	3652.8	3720.9	3756.2	3796.3	3809.7	3804.8	3804.8	3797.5
27.5°	2920.5	3503.2	3474.0	3526.3	3609.0	3633.3	3654.0	3695.4	3720.9	3739.1	3747.7
30°	2781.9	2886.5	3396.1	3403.4	3487.4	3484.9	3508.0	3542.1	3574.9	3617.5	3628.5
32.5°	2460.7	2717.4	3109.1	3280.6	3368.2	3376.7	3388.8	3398.6	3429.0	3476.4	3517.8
35°	1971.7	2475.3	2663.9	3222.2	3238.0	3255.0	3262.3	3285.4	3295.2	3314.6	3351.1
37.5°	1784.4	2045.9	2555.6	2786.7	3088.4	3103.0	3141.9	3151.6	3167.4	3183.3	3211.2
40°	1676.2	1747.9	2127.4	2488.7	2968.0	2977.7	2991.1	3015.4	3016.6	3034.9	3060.4
42.5°	1589.8	1636.0	1746.7	2376.8	2882.8	2881.6	2850.0	2865.8	2873.1	2892.5	2927.8
45°	1269.9	1535.1	1605.6	1941.3	2295.3	2460.7	2778.2	2725.9	2724.7	2732.0	2769.7
47.5°	64.5	1443.8	1493.7	1602.0	2167.6	2173.7	2215.0	2562.9	2616.4	2599.4	2603.0
50°	43.8	99.7	1391.5	1441.4	1868.4	2019.2	2049.6	2065.4	2266.1	2489.9	2453.4
52.5°	34.1	57.2	852.7	1338.0	1518.0	1628.7	1824.6	1936.5	1948.6	2038.7	2344.0
55°	30.4	43.8	92.4	1234.6	1290.6	1314.9	1429.2	1625.1	1783.2	1830.6	1834.3
57.5°	26.8	40.1	63.3	558.3	1173.8	1178.7	1198.1	1266.2	1408.6	1538.7	1685.9
60°	24.3	35.3	49.9	96.1	1066.8	1078.9	1082.6	1100.8	1117.9	1206.6	1375.7
62.5°	14.6	28.0	43.8	69.3	844.2	969.5	968.2	980.4	996.2	1005.9	1040.0
65°	12.2	21.9	37.7	58.4	103.4	128.9	783.3	870.9	880.7	894.0	900.1
67.5°	10.9	19.5	28.0	46.2	77.8	88.8	102.2	126.5	690.9	778.5	790.6
70°	9.7	13.4	23.1	38.9	63.3	68.1	76.6	87.6	103.4	127.7	625.2
72.5°	6.1	9.7	15.8	28.0	48.7	54.7	59.6	66.9	74.2	88.8	102.2
75°	2.4	7.3	13.4	20.7	37.7	41.4	45.0	49.9	56.0	65.7	73.0
77.5°	2.4	6.1	10.9	14.6	24.3	28.0	32.8	36.5	41.4	46.2	53.5
80°	8.5	4.9	7.3	10.9	17.0	18.2	20.7	23.1	26.8	30.4	35.3
82.5°	6.1	7.3	8.5	7.3	8.5	10.9	12.2	14.6	15.8	18.2	19.5
85°	4.9	4.9	6.1	6.1	6.1	6.1	6.1	6.1	7.3	8.5	10.9
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.9	4.9
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: P1214197

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

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0
2.5°	4039.6	4037.2	4029.9	4029.9	4028.6	4033.5	4037.2	4040.8	4039.6	4046.9	4039.6
5°	4070.0	4063.9	4053.0	4043.2	4039.6	4042.0	4038.4	4042.0	4037.2	4043.2	4032.3
7.5°	4153.9	4133.3	4090.7	4073.7	4051.8	4050.5	4039.6	4037.2	4029.9	4029.9	4016.5
10°	4302.3	4202.6	4190.4	4139.3	4121.1	4032.3	4051.8	4018.9	4015.3	3999.5	3993.4
12.5°	4424.0	4346.1	4323.0	4278.0	4226.9	4046.9	4087.0	4016.5	4012.8	3981.2	3948.4
15°	4426.4	4471.4	4408.2	4284.1	4273.1	4149.1	4067.6	4043.2	4011.6	3916.7	3932.6
17.5°	4284.1	4387.5	4417.9	4391.1	4313.3	4229.3	4115.0	4066.4	3971.5	3928.9	3899.7
20°	4053.0	4157.6	4287.7	4296.2	4344.9	4285.3	4135.7	4056.6	3942.3	3868.1	3843.8
22.5°	3869.3	3945.9	4095.5	4164.9	4224.5	4245.2	4150.3	4033.5	3891.2	3819.4	3804.8
25°	3772.0	3789.0	3834.0	3915.5	4046.9	4141.8	4155.1	4031.1	3956.9	3800.0	3717.3
27.5°	3736.7	3722.1	3703.9	3745.2	3843.8	3959.3	4035.9	4056.6	3871.7	3722.1	3639.4
30°	3646.7	3655.2	3627.2	3612.6	3677.1	3796.3	3932.6	3966.6	3824.3	3669.8	3574.9
32.5°	3536.0	3550.6	3555.5	3529.9	3516.5	3599.3	3746.4	3827.9	3820.6	3595.6	3489.8
35°	3397.3	3438.7	3449.6	3450.9	3429.0	3415.6	3500.7	3669.8	3734.3	3561.6	3408.3
37.5°	3251.4	3263.5	3323.1	3339.0	3339.0	3298.8	3362.1	3497.1	3587.1	3484.9	3308.5
40°	3068.9	3107.8	3163.8	3191.8	3219.8	3223.4	3188.1	3283.0	3431.4	3405.9	3214.9
42.5°	2936.3	2961.9	2995.9	3033.6	3090.8	3105.4	3068.9	3086.0	3240.4	3307.3	3093.3
45°	2781.9	2815.9	2825.6	2867.0	2926.6	2969.2	2968.0	2932.7	3056.8	3139.5	3004.5
47.5°	2623.7	2656.6	2673.6	2694.3	2738.1	2792.8	2823.2	2807.4	2831.7	2993.5	2886.5
50°	2460.7	2479.0	2513.0	2536.1	2565.3	2597.0	2670.0	2684.5	2650.5	2779.4	2756.3
52.5°	2306.3	2312.3	2335.4	2358.6	2397.5	2420.6	2479.0	2522.8	2520.3	2558.0	2611.6
55°	2185.8	2159.1	2163.9	2182.2	2207.7	2243.0	2275.8	2344.0	2367.1	2374.4	2459.5
57.5°	1707.8	1982.7	2007.0	2005.8	2036.2	2052.0	2082.4	2127.4	2210.2	2191.9	2286.8
60°	1552.1	1582.5	1812.4	1839.2	1850.1	1864.7	1901.2	1942.6	2003.4	2042.3	2083.7
62.5°	1183.5	1368.4	1437.8	1640.9	1672.5	1681.0	1705.4	1724.8	1788.1	1876.9	1859.8
65°	915.9	995.0	1206.6	1289.4	1462.1	1484.0	1518.0	1538.7	1557.0	1659.1	1664.0
67.5°	791.9	804.0	861.2	1020.5	1130.0	1299.1	1319.8	1338.0	1366.0	1439.0	1484.0
70°	676.3	690.9	706.7	720.1	862.4	974.3	1131.2	1137.3	1155.6	1204.2	1306.4
72.5°	127.7	577.8	587.5	596.0	611.8	686.0	835.7	957.3	964.6	987.7	1081.4
75°	86.4	101.0	138.7	476.8	492.6	497.5	523.0	675.1	787.0	791.9	833.2
77.5°	62.0	69.3	83.9	99.7	254.2	381.9	388.0	416.0	531.6	615.5	622.8
80°	42.6	47.4	56.0	63.3	77.8	102.2	282.2	290.7	305.3	420.9	442.8
82.5°	24.3	28.0	32.8	40.1	46.2	58.4	75.4	97.3	198.3	211.6	281.0
85°	12.2	13.4	15.8	19.5	23.1	28.0	37.7	46.2	63.3	114.3	118.0
87.5°	6.1	6.1	6.1	6.1	9.7	10.9	13.4	17.0	21.9	32.8	42.6
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: P1214197

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

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0
2.5°	4040.8	4057.8	4072.4	4076.1	4076.1	4078.5	4082.2	4084.6	4087.0	4089.5	4087.0
5°	4033.5	4051.8	4063.9	4067.6	4067.6	4074.9	4080.9	4088.2	4091.9	4091.9	4089.5
7.5°	4015.3	4028.6	4044.5	4054.2	4055.4	4067.6	4078.5	4077.3	4082.2	4084.6	4090.7
10°	3990.9	3990.9	4017.7	4025.0	4031.1	4044.5	4048.1	4055.4	4072.4	4074.9	4090.7
12.5°	3978.8	3966.6	3998.2	4001.9	4022.6	4005.5	4027.4	4034.7	4017.7	4040.8	4010.4
15°	3924.0	3938.6	3933.8	3944.7	3981.2	3961.7	4021.3	4001.9	4045.7	3993.4	4085.8
17.5°	3879.0	3876.6	3896.1	3905.8	3913.1	3954.4	3970.3	3992.2	4009.2	3994.6	4031.1
20°	3846.2	3826.7	3841.3	3852.3	3877.8	3909.4	3919.2	3886.3	3943.5	4040.8	4063.9
22.5°	3784.2	3770.8	3787.8	3787.8	3826.7	3821.9	3858.4	3837.7	3891.2	4004.3	4122.3
25°	3700.2	3701.4	3719.7	3741.6	3748.9	3803.6	3823.1	3849.8	3916.7	4051.8	4123.5
27.5°	3615.1	3607.8	3618.7	3663.7	3701.4	3741.6	3747.7	3838.9	3930.1	4022.6	4085.8
30°	3529.9	3522.6	3529.9	3562.8	3607.8	3634.5	3701.4	3823.1	3908.2	3971.5	4031.1
32.5°	3438.7	3431.4	3448.4	3472.8	3551.8	3555.5	3688.1	3802.4	3869.3	3915.5	3904.6
35°	3341.4	3331.7	3347.5	3385.2	3458.2	3484.9	3623.6	3708.7	3784.2	3806.0	3755.0
37.5°	3224.6	3207.6	3227.1	3279.4	3356.0	3433.8	3549.4	3647.9	3688.1	3629.7	3568.9
40°	3103.0	3090.8	3124.9	3151.6	3241.6	3349.9	3482.5	3551.8	3526.3	3459.4	3392.5
42.5°	2994.7	2969.2	2999.6	3050.7	3152.9	3275.7	3382.7	3421.7	3360.9	3262.3	3184.5
45°	2862.1	2831.7	2868.2	2936.3	3045.8	3185.7	3269.6	3256.2	3152.9	3067.7	2960.7
47.5°	2723.5	2687.0	2723.5	2805.0	2927.8	3076.2	3137.0	3076.2	2946.1	2839.0	2752.7
50°	2587.2	2544.7	2579.9	2702.8	2823.2	2937.6	2936.3	2818.3	2740.5	2623.7	2548.3
52.5°	2452.2	2391.4	2426.7	2560.5	2680.9	2811.1	2715.0	2605.5	2511.8	2409.6	2385.3
55°	2285.6	2219.9	2267.3	2461.9	2554.4	2631.0	2477.8	2381.7	2289.2	2238.1	2207.7
57.5°	2127.4	2055.7	2097.0	2326.9	2395.0	2414.5	2273.4	2137.2	2082.4	2065.4	2021.6
60°	1964.5	1883.0	1921.9	2187.0	2234.5	2155.4	2016.8	1910.9	1900.0	1865.9	1831.9
62.5°	1808.8	1718.7	1743.1	2013.1	2035.0	1891.5	1763.7	1735.8	1709.0	1675.0	1656.7
65°	1629.9	1536.3	1570.3	1828.2	1807.5	1622.6	1550.9	1544.8	1509.5	1481.5	1508.3
67.5°	1465.7	1355.0	1402.5	1626.3	1532.6	1381.8	1352.6	1338.0	1310.0	1325.9	1044.9
70°	1285.7	1165.3	1229.8	1408.6	1269.9	1170.2	1159.2	1137.3	1138.5	905.0	762.7
72.5°	1085.0	980.4	1074.1	1170.2	1004.7	975.5	959.7	957.3	772.4	627.7	592.4
75°	908.6	802.8	903.8	940.3	800.4	780.9	779.7	644.7	507.2	484.1	473.2
77.5°	709.1	627.7	723.7	669.0	614.3	592.4	531.6	399.0	381.9	366.1	137.5
80°	478.0	484.1	540.1	461.0	437.9	373.4	294.4	282.2	243.3	97.3	76.6
82.5°	290.7	364.9	344.2	288.3	282.2	203.1	186.1	94.9	70.5	56.0	48.7
85°	150.8	184.9	177.6	156.9	116.8	104.6	58.4	45.0	36.5	28.0	23.1
87.5°	51.1	68.1	65.7	52.3	40.1	31.6	20.7	17.0	12.2	9.7	8.5
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: P1214197

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

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0
2.5°	4084.6	4084.6	4082.2	4084.6	4085.8	4083.4	4083.4	4085.8	4087.0	4088.2	4094.3
5°	4090.7	4093.1	4096.8	4104.1	4105.3	4119.9	4126.0	4129.6	4133.3	4134.5	4126.0
7.5°	4104.1	4112.6	4119.9	4118.7	4110.1	4087.0	4079.7	4073.7	4084.6	4112.6	4145.4
10°	4116.2	4077.3	4004.3	4104.1	4073.7	4101.6	4184.3	4202.6	4258.5	4337.6	4360.7
12.5°	4032.3	4139.3	4162.4	4050.5	4257.3	4180.7	4271.9	4352.2	4375.3	4455.6	4406.9
15°	4122.3	4174.6	4209.9	4321.8	4309.6	4375.3	4400.9	4385.0	4388.7	4409.4	4464.1
17.5°	4121.1	4225.7	4248.8	4324.2	4375.3	4376.5	4369.2	4361.9	4381.4	4397.2	4364.4
20°	4191.6	4225.7	4270.7	4301.1	4310.8	4323.0	4346.1	4327.9	4291.4	4256.1	4241.5
22.5°	4156.4	4233.0	4271.9	4276.8	4270.7	4233.0	4198.9	4147.9	4130.8	4112.6	4118.7
25°	4163.7	4198.9	4194.1	4174.6	4149.1	4078.5	4061.5	4039.6	4006.8	3927.7	3855.9
27.5°	4111.4	4093.1	4071.2	4023.8	3977.6	3939.8	3897.3	3826.7	3768.3	3683.2	3651.6
30°	4023.8	3950.8	3897.3	3869.3	3824.3	3761.0	3696.6	3610.2	3536.0	3519.0	3503.2
32.5°	3855.9	3784.2	3740.4	3672.2	3595.6	3520.2	3446.0	3411.9	3396.1	3398.6	3384.0
35°	3684.4	3621.2	3555.5	3453.3	3396.1	3320.7	3294.0	3286.7	3272.1	3256.2	3239.2
37.5°	3502.0	3427.8	3329.2	3268.4	3211.2	3180.8	3167.4	3156.5	3131.0	3103.0	3083.5
40°	3325.6	3191.8	3137.0	3077.4	3060.4	3047.0	3027.6	3000.8	2965.5	2960.7	2952.2
42.5°	3089.6	2993.5	2946.1	2933.9	2913.2	2890.1	2873.1	2843.9	2829.3	2839.0	2846.3
45°	2865.8	2817.1	2801.3	2786.7	2747.8	2715.0	2704.0	2694.3	2706.4	2760.0	2632.2
47.5°	2684.5	2665.1	2645.6	2621.3	2584.8	2560.5	2571.4	2581.2	2592.1	2199.2	2007.0
50°	2527.6	2500.9	2470.5	2443.7	2421.8	2419.4	2476.5	2305.0	1930.4	1920.7	1726.0
52.5°	2356.1	2316.0	2297.7	2281.9	2291.7	2328.1	1926.7	1788.1	1715.1	1490.1	1390.3
55°	2171.2	2136.0	2136.0	2150.6	2098.3	1700.5	1679.8	1452.4	1314.9	1276.0	1260.2
57.5°	1986.3	1982.7	2003.4	1831.9	1543.6	1480.3	1244.4	1194.5	1172.6	1167.7	1142.2
60°	1817.3	1851.3	1549.7	1425.6	1239.5	1117.9	1083.8	1077.7	1054.6	1046.1	1023.0
62.5°	1682.3	1395.2	1299.1	1060.7	998.6	982.8	964.6	956.1	935.4	825.9	242.1
65°	1215.2	1148.3	931.7	891.6	886.7	863.6	856.3	770.0	181.2	121.6	103.4
67.5°	917.1	813.8	785.8	778.5	755.4	709.1	210.4	120.4	103.4	90.0	79.1
70°	704.3	686.0	665.4	648.3	191.0	119.2	103.4	87.6	75.4	66.9	60.8
72.5°	576.6	564.4	328.4	125.3	102.2	86.4	76.6	66.9	58.4	53.5	48.7
75°	451.3	125.3	103.4	86.4	74.2	63.3	56.0	49.9	45.0	41.4	37.7
77.5°	102.2	82.7	70.5	59.6	53.5	47.4	42.6	36.5	32.8	29.2	24.3
80°	63.3	54.7	46.2	42.6	36.5	30.4	26.8	24.3	19.5	18.2	15.8
82.5°	41.4	32.8	29.2	24.3	19.5	18.2	15.8	12.2	10.9	9.7	8.5
85°	18.2	15.8	13.4	10.9	8.5	7.3	6.1	4.9	4.9	4.9	4.9
87.5°	6.1	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	2.4	2.4
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: P1214197

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

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0
2.5°	4096.8	4118.7	4139.3	4133.3	4111.4	4077.3	4067.6	4054.2	4063.9	4084.6	4093.1
5°	4126.0	4113.8	4157.6	4222.0	4326.7	4336.4	4409.4	4426.4	4484.8	4521.3	4520.1
7.5°	4167.3	4340.0	4411.8	4489.7	4524.9	4516.4	4527.4	4518.8	4505.5	4499.4	4492.1
10°	4377.7	4509.1	4535.9	4535.9	4481.1	4406.9	4375.3	4320.6	4211.1	4213.5	4195.3
12.5°	4500.6	4546.8	4483.6	4430.0	4209.9	4124.7	4032.3	3988.5	3963.0	3924.0	3938.6
15°	4436.1	4370.4	4332.7	4160.0	4025.0	3871.7	3874.2	3847.4	3819.4	3821.9	3803.6
17.5°	4341.3	4289.0	4021.3	3902.1	3836.5	3776.9	3765.9	3730.6	3712.4	3706.3	3705.1
20°	4211.1	4022.6	3823.1	3793.9	3714.8	3646.7	3635.8	3646.7	3702.7	3602.9	3264.8
22.5°	4059.1	3787.8	3729.4	3646.7	3593.2	3566.4	3633.3	3329.2	2869.4	2925.4	2865.8
25°	3801.2	3683.2	3583.5	3520.2	3514.1	3349.9	2791.6	2733.2	2437.6	2279.5	2101.9
27.5°	3612.6	3561.6	3456.9	3446.0	3366.9	2739.3	2448.6	2127.4	2009.5	1991.2	1952.3
30°	3498.3	3425.3	3362.1	3086.0	2687.0	2205.3	1964.5	1919.4	1898.8	1876.9	1842.8
32.5°	3360.9	3291.5	3321.9	2594.5	2142.0	1898.8	1850.1	1817.3	1779.6	1765.0	1642.1
35°	3221.0	3189.3	2595.8	2181.0	1841.6	1783.2	1746.7	1712.7	1362.3	329.6	111.9
37.5°	3071.4	3064.1	2333.0	1810.0	1724.8	1670.1	1566.7	323.6	76.6	52.3	38.9
40°	2954.6	2334.2	1844.0	1696.8	1627.5	1541.2	216.5	53.5	34.1	20.7	13.4
42.5°	2876.7	2099.5	1650.6	1592.2	1441.4	159.3	54.7	23.1	13.4	10.9	8.5
45°	2217.5	1657.9	1542.4	1481.5	182.5	54.7	31.6	10.9	8.5	7.3	4.9
47.5°	2045.9	1505.9	1437.8	323.6	60.8	29.2	21.9	7.3	4.9	4.9	4.9
50°	1549.7	1391.5	1144.6	79.1	38.9	20.7	15.8	4.9	4.9	4.9	3.6
52.5°	1358.7	1284.5	122.9	52.3	30.4	15.8	9.7	3.6	3.6	3.6	3.6
55°	1241.9	815.0	73.0	40.1	25.5	14.6	6.1	3.6	3.6	3.6	2.4
57.5°	1136.1	109.5	53.5	34.1	23.1	13.4	3.6	3.6	3.6	3.6	2.4
60°	963.4	79.1	43.8	30.4	21.9	12.2	3.6	3.6	3.6	3.6	3.6
62.5°	125.3	62.0	37.7	26.8	15.8	9.7	2.4	3.6	3.6	3.6	3.6
65°	91.2	48.7	34.1	18.2	9.7	3.6	2.4	3.6	3.6	3.6	3.6
67.5°	70.5	40.1	25.5	15.8	8.5	2.4	2.4	3.6	3.6	3.6	3.6
70°	56.0	34.1	20.7	13.4	7.3	2.4	2.4	3.6	3.6	3.6	3.6
72.5°	43.8	24.3	14.6	7.3	4.9	2.4	2.4	3.6	3.6	3.6	3.6
75°	32.8	19.5	10.9	6.1	2.4	2.4	2.4	3.6	3.6	3.6	3.6
77.5°	21.9	12.2	8.5	4.9	4.9	4.9	6.1	6.1	3.6	3.6	3.6
80°	14.6	8.5	6.1	6.1	6.1	4.9	6.1	6.1	3.6	6.1	3.6
82.5°	7.3	6.1	6.1	4.9	4.9	3.6	4.9	4.9	4.9	4.9	3.6
85°	4.9	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.9	4.9	3.6
87.5°	2.4	2.4	2.4	2.4	3.6	3.6	3.6	3.6	4.9	4.9	3.6
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: P1214197

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

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0
2.5°	4082.2	4085.8	4076.1	4128.4	4101.6	4104.1	4115.0	4087.0	4093.1	4073.7	4060.3
5°	4524.9	4532.2	4539.5	4542.0	4546.8	4552.9	4545.6	4542.0	4534.7	4510.3	4484.8
7.5°	4455.6	4447.1	4443.4	4448.3	4456.8	4460.5	4454.4	4462.9	4494.5	4507.9	4516.4
10°	4090.7	4051.8	4078.5	4074.9	4044.5	4146.6	4118.7	4134.5	4145.4	4257.3	4325.4
12.5°	3916.7	3941.1	3894.8	3871.7	3902.1	3922.8	3943.5	3899.7	3960.5	3932.6	4022.6
15°	3770.8	3756.2	3751.3	3752.5	3746.4	3775.6	3782.9	3792.7	3801.2	3838.9	3853.5
17.5°	3705.1	3729.4	3739.1	3746.4	3734.3	3720.9	3707.5	3688.1	3694.1	3684.4	3712.4
20°	3037.3	2955.8	2950.9	2998.4	2946.1	2975.3	3045.8	3517.8	3502.0	3685.6	3623.6
22.5°	2534.9	2458.3	2392.6	2335.4	2416.9	2451.0	2582.4	2730.8	2971.6	2933.9	3195.4
25°	2070.3	2042.3	2025.3	2016.8	2022.8	2020.4	2049.6	2118.9	2228.4	2486.3	2819.6
27.5°	1936.5	1923.1	1917.0	1897.6	1912.1	1907.3	1930.4	1945.0	1977.8	2003.4	2111.6
30°	1830.6	1814.8	1803.9	1783.2	1797.8	1799.0	1806.3	1844.0	1857.4	1879.3	1913.4
32.5°	669.0	394.1	369.8	351.5	384.4	501.1	879.4	1537.5	1754.0	1771.0	1810.0
35°	65.7	54.7	48.7	48.7	49.9	54.7	73.0	192.2	351.5	1358.7	1700.5
37.5°	25.5	21.9	18.2	17.0	18.2	20.7	28.0	36.5	49.9	103.4	461.0
40°	10.9	9.7	8.5	8.5	8.5	8.5	9.7	12.2	18.2	34.1	53.5
42.5°	7.3	6.1	6.1	6.1	6.1	6.1	6.1	6.1	8.5	10.9	21.9
45°	4.9	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.9	6.1	9.7
47.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.9
50°	3.6	3.6	3.6	3.6	2.4	3.6	2.4	3.6	3.6	3.6	3.6
52.5°	3.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6	3.6
55°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6
57.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
60°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
62.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6	3.6	2.4
65°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6	2.4
67.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
70°	3.6	3.6	2.4	3.6	2.4	2.4	3.6	3.6	3.6	2.4	2.4
72.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	7.3	7.3	4.9
75°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	6.1	7.3	6.1
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	6.1	6.1	6.1
80°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.9	4.9	4.9
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.9	4.9	4.9
85°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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: P1214197

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

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0
2.5°	4037.2	4035.9	4061.5	4080.9	4073.7	4080.9	4089.5	4090.7	4093.1	4083.4	4079.7
5°	4436.1	4398.4	4325.4	4273.1	4212.3	4101.6	4046.9	4053.0	4054.2	4050.5	4055.4
7.5°	4512.8	4509.1	4483.6	4472.6	4431.3	4352.2	4225.7	4203.8	4150.3	4116.2	4088.2
10°	4320.6	4408.2	4431.3	4470.2	4494.5	4479.9	4372.9	4357.1	4323.0	4284.1	4292.6
12.5°	4112.6	4184.3	4188.0	4399.6	4447.1	4451.9	4410.6	4432.5	4437.3	4349.8	4298.7
15°	3857.1	3891.2	3963.0	4160.0	4303.5	4393.6	4420.3	4432.5	4372.9	4369.2	4348.6
17.5°	3745.2	3767.1	3800.0	3910.7	4128.4	4261.0	4374.1	4365.6	4388.7	4371.7	4319.4
20°	3604.1	3622.4	3680.8	3736.7	3843.8	4020.1	4231.8	4247.6	4278.0	4274.4	4289.0
22.5°	3601.7	3537.2	3547.0	3590.7	3702.7	3860.8	4085.8	4138.1	4157.6	4171.0	4186.8
25°	2857.3	3369.4	3463.0	3491.0	3564.0	3656.4	3921.6	3941.1	3977.6	4037.2	4080.9
27.5°	2475.3	2823.2	3197.9	3392.5	3438.7	3515.3	3673.5	3702.7	3826.7	3841.3	3909.4
30°	1953.5	2222.3	2781.9	3250.2	3326.8	3380.3	3492.2	3550.6	3604.1	3662.5	3734.3
32.5°	1837.9	1880.5	2190.7	2689.4	3285.4	3245.3	3328.0	3363.3	3421.7	3472.8	3525.1
35°	1732.1	1761.3	1827.0	2202.9	2676.0	3134.6	3190.6	3213.7	3246.5	3285.4	3323.1
37.5°	1621.4	1665.2	1710.2	1811.2	2475.3	3047.0	3045.8	3072.6	3092.0	3124.9	3156.5
40°	294.4	1529.0	1602.0	1667.7	1919.4	2430.3	2909.6	2921.7	2935.1	2955.8	2988.6
42.5°	47.4	255.4	1501.0	1564.3	1636.0	2176.1	2847.5	2797.7	2789.2	2803.8	2832.9
45°	24.3	62.0	301.7	1460.9	1525.3	1735.8	2328.1	2711.3	2702.8	2674.8	2680.9
47.5°	18.2	38.9	74.2	504.8	1428.0	1490.1	2148.1	2125.0	2286.8	2597.0	2549.5
50°	15.8	26.8	43.8	103.4	1261.4	1372.1	1654.3	1932.8	2018.0	2028.9	2401.1
52.5°	14.6	18.2	31.6	66.9	265.2	1268.7	1345.3	1442.6	1586.2	1893.9	1886.6
55°	13.4	17.0	26.8	45.0	92.4	1143.4	1222.5	1240.7	1271.1	1418.3	1612.9
57.5°	7.3	15.8	25.5	38.9	69.3	209.2	1109.3	1123.9	1148.3	1154.3	1223.7
60°	3.6	14.6	23.1	34.1	51.1	97.3	997.4	1014.5	1029.1	1031.5	1053.4
62.5°	2.4	13.4	19.5	31.6	42.6	69.3	236.0	481.7	915.9	915.9	941.5
65°	2.4	9.7	12.2	20.7	38.9	57.2	99.7	115.6	225.0	553.5	825.9
67.5°	2.4	3.6	10.9	17.0	29.2	43.8	73.0	85.1	102.2	116.8	216.5
70°	2.4	2.4	9.7	10.9	18.2	32.8	52.3	59.6	69.3	79.1	91.2
72.5°	2.4	2.4	8.5	8.5	12.2	21.9	40.1	43.8	49.9	56.0	64.5
75°	6.1	4.9	7.3	7.3	8.5	17.0	30.4	34.1	36.5	41.4	47.4
77.5°	6.1	6.1	6.1	6.1	6.1	10.9	19.5	21.9	25.5	28.0	32.8
80°	4.9	4.9	4.9	6.1	6.1	7.3	12.2	13.4	14.6	18.2	19.5
82.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	7.3	8.5	10.9
85°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.9	4.9	4.9	4.9
87.5°	3.6	3.6	3.6	2.4	2.4	3.6	3.6	3.6	3.6	3.6	3.6
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: P1214197

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

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0
2.5°	4078.5	4071.2	4065.1	4068.8	4057.8	4053.0	4056.6	4057.8	4060.3	4066.4	4067.6
5°	4067.6	4065.1	4076.1	4082.2	4079.7	4082.2	4082.2	4077.3	4070.0	4074.9	4063.9
7.5°	4060.3	4044.5	4032.3	4034.7	4022.6	4037.2	4050.5	4070.0	4076.1	4076.1	4063.9
10°	4185.6	4168.5	4100.4	4054.2	4023.8	3997.0	4060.3	3995.8	4026.2	3910.7	4043.2
12.5°	4289.0	4312.1	4281.7	4155.1	4133.3	4053.0	4099.2	4020.1	3997.0	3864.4	3907.0
15°	4330.3	4286.5	4276.8	4241.5	4194.1	4171.0	4046.9	4033.5	3995.8	4010.4	3954.4
17.5°	4293.8	4315.7	4286.5	4263.4	4214.8	4160.0	4085.8	4020.1	3967.8	3851.1	3949.6
20°	4258.5	4287.7	4200.2	4214.8	4219.6	4156.4	4117.4	4062.7	3997.0	3887.5	3802.4
22.5°	4200.2	4179.5	4186.8	4164.9	4146.6	4155.1	4101.6	4063.9	3953.2	3903.4	3787.8
25°	4105.3	4098.0	4117.4	4115.0	4071.2	4056.6	4029.9	3989.7	3945.9	3865.7	3770.8
27.5°	3950.8	3988.5	4022.6	4038.4	4015.3	3976.3	3961.7	3938.6	3908.2	3826.7	3756.2
30°	3787.8	3830.4	3869.3	3903.4	3924.0	3907.0	3893.6	3880.2	3834.0	3780.5	3701.4
32.5°	3601.7	3657.6	3711.2	3752.5	3797.5	3810.9	3801.2	3790.2	3751.3	3702.7	3639.4
35°	3386.4	3463.0	3540.9	3615.1	3634.5	3666.2	3697.8	3679.5	3658.9	3610.2	3551.8
37.5°	3203.9	3258.7	3314.6	3408.3	3476.4	3516.5	3572.5	3579.8	3544.5	3521.4	3444.8
40°	3015.4	3065.3	3146.8	3201.5	3295.2	3341.4	3401.0	3427.8	3419.2	3405.9	3339.0
42.5°	2867.0	2891.3	2944.9	2993.5	3086.0	3180.8	3233.1	3262.3	3292.7	3281.8	3247.7
45°	2708.9	2730.8	2749.0	2791.6	2881.6	2965.5	3030.0	3073.8	3128.5	3154.1	3112.7
47.5°	2552.0	2558.0	2579.9	2615.2	2668.7	2733.2	2841.5	2907.1	2958.2	3008.1	2981.3
50°	2431.5	2409.6	2413.3	2435.2	2479.0	2542.2	2620.1	2712.5	2770.9	2831.7	2837.8
52.5°	2125.0	2302.6	2260.0	2272.2	2295.3	2325.7	2407.2	2498.4	2570.2	2622.5	2674.8
55°	1783.2	1818.5	2160.3	2111.6	2126.2	2153.0	2190.7	2281.9	2351.3	2424.2	2497.2
57.5°	1383.0	1645.8	1659.1	1975.4	1968.1	1970.5	2002.2	2054.5	2123.8	2215.0	2277.1
60°	1075.3	1186.0	1401.3	1510.7	1788.1	1797.8	1816.1	1846.5	1906.1	1992.4	2091.0
62.5°	948.8	963.4	1040.0	1204.2	1384.2	1602.0	1640.9	1645.8	1672.5	1758.9	1873.2
65°	833.2	843.0	866.1	883.1	1033.9	1244.4	1431.7	1462.1	1479.1	1530.2	1627.5
67.5°	574.1	726.2	746.9	759.0	773.6	870.9	1103.3	1257.7	1277.2	1322.2	1407.3
70°	110.7	229.9	628.9	642.2	649.5	671.4	709.1	954.9	1083.8	1126.4	1165.3
72.5°	75.4	88.8	107.0	253.0	535.2	547.4	555.9	587.5	805.2	929.3	950.0
75°	54.7	60.8	71.8	88.8	109.5	356.4	441.5	457.4	473.2	653.2	757.8
77.5°	38.9	43.8	48.7	57.2	66.9	86.4	124.1	341.8	357.6	366.1	517.0
80°	21.9	26.8	32.8	37.7	42.6	48.7	63.3	79.1	176.4	257.9	271.3
82.5°	12.2	14.6	17.0	20.7	23.1	29.2	35.3	42.6	56.0	82.7	175.2
85°	6.1	6.1	6.1	8.5	9.7	13.4	15.8	18.2	25.5	35.3	48.7
87.5°	3.6	3.6	4.9	4.9	4.9	6.1	6.1	6.1	7.3	10.9	15.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1214197

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

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	4053.0	4053.0	4053.0	4053.0	4053.0
2.5°	4068.8	4065.1	4065.1	4079.7	4076.1
5°	4061.5	4057.8	4056.6	4072.4	4065.1
7.5°	4055.4	4042.0	4038.4	4053.0	4046.9
10°	4031.1	4021.3	4027.4	4022.6	4020.1
12.5°	3989.7	3983.6	3958.1	3960.5	3981.2
15°	3915.5	3939.8	3896.1	3935.0	3943.5
17.5°	3779.3	3834.0	3876.6	3899.7	3903.4
20°	3840.1	3858.4	3836.5	3837.7	3852.3
22.5°	3761.0	3769.6	3775.6	3768.3	3800.0
25°	3634.5	3601.7	3672.2	3686.8	3737.9
27.5°	3595.6	3568.9	3601.7	3599.3	3641.8
30°	3564.0	3477.6	3492.2	3515.3	3567.6
32.5°	3519.0	3382.7	3368.2	3419.2	3477.6
35°	3439.9	3311.0	3276.9	3309.8	3397.3
37.5°	3373.0	3211.2	3143.1	3186.9	3301.3
40°	3273.3	3133.4	3027.6	3066.5	3201.5
42.5°	3154.1	3066.5	2903.5	2930.3	3084.7
45°	3033.6	2955.8	2783.1	2796.5	2980.1
47.5°	2910.8	2839.0	2657.8	2660.2	2846.3
50°	2790.4	2695.5	2545.9	2503.3	2704.0
52.5°	2633.5	2545.9	2432.8	2363.4	2569.0
55°	2485.1	2386.5	2303.8	2196.8	2415.7
57.5°	2340.3	2230.8	2174.9	2037.4	2241.8
60°	2142.0	2089.7	2007.0	1875.7	2084.9
62.5°	1938.9	1921.9	1837.9	1701.7	1891.5
65°	1701.7	1741.9	1655.5	1538.7	1690.8
67.5°	1477.9	1549.7	1454.8	1383.0	1497.4
70°	1239.5	1322.2	1268.7	1243.1	1291.8
72.5°	1004.7	1085.0	1089.9	1071.6	1087.4
75°	776.0	864.8	913.5	885.5	889.2
77.5°	588.7	631.3	684.8	706.7	701.9
80°	363.7	437.9	481.7	526.7	510.9
82.5°	183.7	245.7	299.2	347.9	324.8
85°	76.6	98.5	137.5	181.2	173.9
87.5°	23.1	38.9	41.4	58.4	54.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)