

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: P1214212

Luminaire Tested: 4SNLED-LD5-65SL-RM-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214212
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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

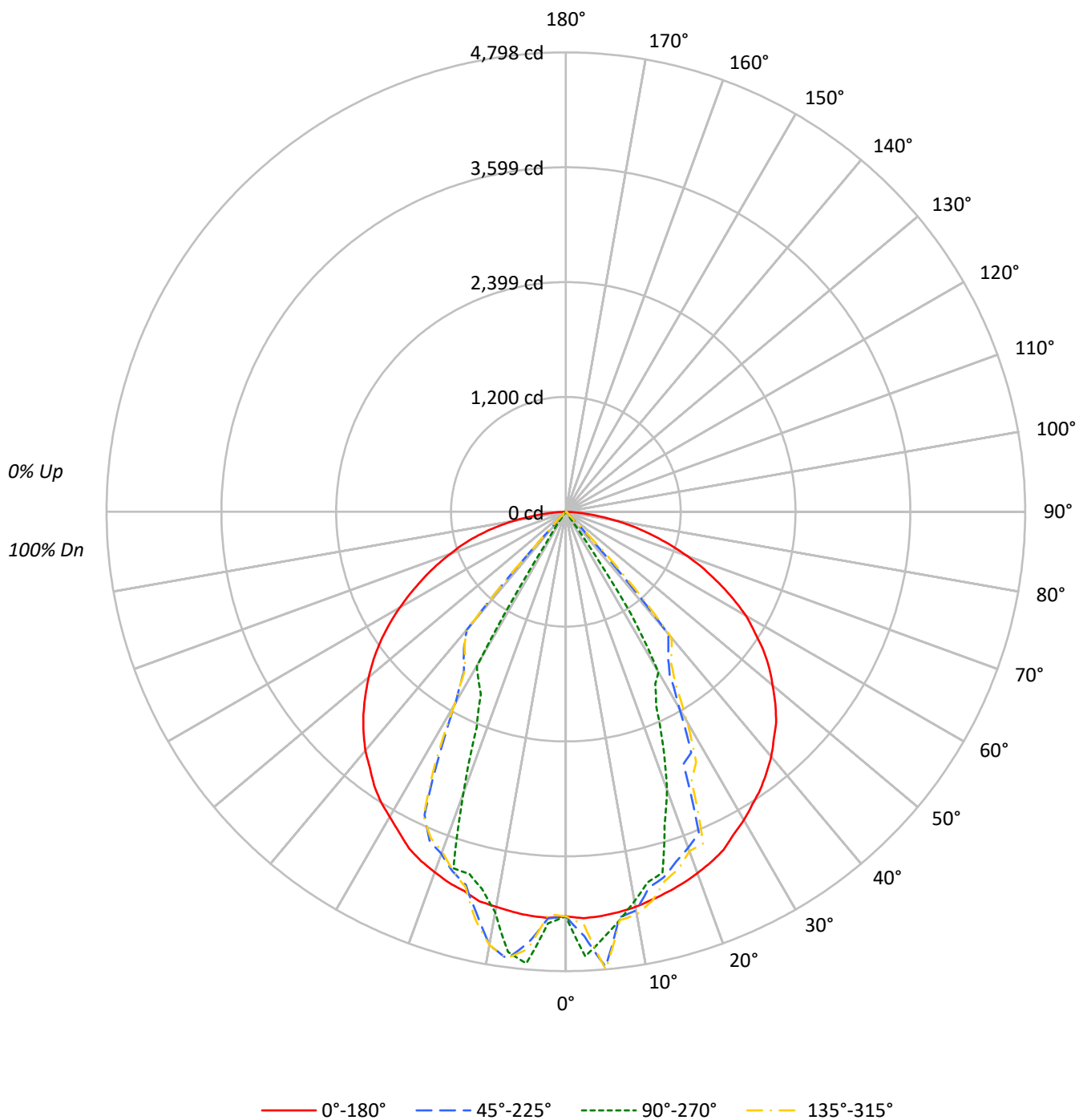
Lumens per Lamp: N/A
Luminaire Lumens: 6008.0 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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°	34145	34145	34145	34145
5°	34284	35117	34274	37188
10°	34202	31777	34181	32695
15°	34108	29660	34024	29738
20°	34148	23362	34051	23650
25°	34246	16906	34079	15954
30°	34090	14830	33730	14257
35°	34192	327	33690	396
40°	34309	71	33487	71
45°	34429	42	33137	32
50°	34168	33	32599	33
55°	33965	23	31879	23
60°	33324	24	30720	24
65°	31586	40	29337	26
70°	29303	44	27895	44
75°	25920	49	26345	49
80°	21054	57	22256	57
85°	12386	67	12646	67

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 37176 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.9	7.1
10°-20°	1156.3	19.2
20°-30°	1471.3	24.5
30°-40°	1242.9	20.7
40°-50°	812.6	13.5
50°-60°	512.0	8.5
60°-70°	272.5	4.5
70°-80°	99.4	1.7
80°-90°	17.1	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°	3051.5	50.8
0°-40°	4294.4	71.5
0°-60°	5619.0	93.5
0°-90°	6008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6008.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4225	4225	4225	4225	4225	
5°	4238	4471	4237	4735	4238	403
15°	4111	3902	4101	3912	4111	1162
25°	3897	2228	3878	2102	3897	1792
35°	3542	42	3490	51	3542	2216
45°	3107	5	2990	4	3107	2389
55°	2518	2	2364	2	2518	2244
65°	1763	4	1637	2	1763	1746
75°	927	4	942	4	927	984
85°	181	4	185	4	181	229
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°	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3
2.5°	4249.4	4251.9	4253.2	4255.7	4259.5	4260.8	4263.3	4260.8	4260.8	4260.8	4260.8
5°	4238.0	4243.0	4246.8	4251.9	4260.8	4262.0	4272.2	4273.5	4278.5	4288.7	4296.3
7.5°	4218.9	4224.0	4231.6	4244.3	4257.0	4270.9	4288.7	4307.7	4334.3	4359.7	4391.4
10°	4191.0	4197.4	4206.3	4217.7	4279.8	4288.7	4328.0	4382.5	4397.7	4477.6	4537.2
12.5°	4150.5	4172.0	4194.8	4205.0	4264.6	4358.4	4490.3	4463.7	4434.5	4695.7	4691.9
15°	4111.1	4140.3	4128.9	4211.3	4265.9	4429.4	4373.6	4492.8	4711.0	4657.7	4660.2
17.5°	4069.3	4075.6	4139.0	4207.5	4305.2	4388.9	4457.3	4620.9	4664.0	4667.8	4620.9
20°	4016.0	4046.5	4139.0	4201.2	4366.0	4405.3	4553.7	4637.4	4619.7	4576.5	4496.6
22.5°	3961.5	4054.1	4147.9	4235.4	4350.8	4456.1	4529.6	4568.9	4476.4	4306.4	4215.1
25°	3896.8	3951.4	4074.4	4202.4	4347.0	4407.9	4451.0	4387.6	4267.1	4115.0	3961.5
27.5°	3796.7	3884.2	4041.4	4186.0	4316.6	4390.1	4320.4	4168.2	3974.2	3874.0	3804.3
30°	3719.3	3833.4	3962.8	4102.3	4238.0	4281.1	4103.5	3929.8	3796.7	3696.5	3681.3
32.5°	3625.5	3787.8	3910.8	4043.9	4158.1	4101.0	3928.5	3704.1	3593.8	3555.7	3570.9
35°	3541.8	3664.8	3825.8	3956.4	4038.9	3910.8	3638.1	3498.7	3445.4	3467.0	3439.1
37.5°	3441.6	3603.9	3752.3	3865.1	3837.2	3644.5	3413.7	3324.9	3331.3	3313.5	3260.3
40°	3337.6	3492.3	3647.0	3753.5	3655.9	3361.7	3208.3	3189.2	3193.0	3136.0	3059.9
42.5°	3215.9	3356.6	3511.3	3607.7	3397.2	3167.7	3063.7	3066.2	3033.3	2953.4	2912.8
45°	3106.8	3236.2	3397.2	3406.1	3147.4	2955.9	2925.5	2892.5	2819.0	2792.3	2761.9
47.5°	2967.3	3110.6	3243.8	3195.6	2902.7	2783.5	2760.6	2688.4	2651.6	2631.3	2605.9
50°	2819.0	2963.5	3085.3	2948.3	2671.9	2644.0	2569.1	2512.1	2486.7	2465.2	2442.3
52.5°	2678.2	2797.4	2921.7	2685.8	2494.3	2467.7	2382.7	2349.8	2324.4	2300.3	2295.2
55°	2518.4	2623.7	2708.6	2436.0	2324.4	2262.3	2201.4	2178.6	2154.5	2143.1	2162.1
57.5°	2337.1	2456.3	2443.6	2190.0	2140.5	2050.5	2027.7	2012.5	1994.7	2002.3	1843.8
60°	2173.5	2264.8	2202.7	2009.9	1926.2	1865.4	1845.1	1834.9	1845.1	1690.4	1486.2
62.5°	1971.9	2074.6	1949.1	1799.4	1710.7	1681.5	1663.7	1677.7	1529.3	1359.4	1309.9
65°	1762.6	1874.2	1689.1	1573.7	1517.9	1492.5	1491.3	1373.3	1227.5	1161.6	1161.6
67.5°	1561.0	1676.4	1438.0	1341.6	1320.1	1322.6	1249.1	1070.3	1029.7	985.3	857.2
70°	1346.7	1448.2	1188.2	1129.9	1117.2	1108.3	929.5	881.3	833.1	715.2	705.1
72.5°	1133.7	1183.1	954.9	940.9	938.4	779.9	744.4	661.9	606.1	592.2	585.9
75°	927.0	911.8	754.5	767.2	646.7	590.9	533.9	485.7	478.1	473.0	117.9
77.5°	731.7	655.6	594.7	517.4	462.9	393.1	381.7	374.1	246.0	88.8	72.3
80°	532.6	424.8	395.6	336.0	286.6	275.2	281.5	86.2	68.5	57.1	49.5
82.5°	338.6	271.4	221.9	194.0	188.9	82.4	60.9	49.5	43.1	36.8	30.4
85°	181.3	120.5	111.6	93.8	55.8	38.0	31.7	24.1	20.3	16.5	15.2
87.5°	57.1	48.2	39.3	31.7	19.0	12.7	10.1	8.9	7.6	6.3	6.3
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):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3
2.5°	4258.2	4260.8	4259.5	4263.3	4263.3	4268.4	4272.2	4276.0	4283.6	4287.4	4316.6
5°	4312.8	4319.1	4338.1	4355.9	4377.4	4383.8	4420.6	4429.4	4472.6	4477.6	4619.7
7.5°	4434.5	4458.6	4504.3	4549.9	4595.6	4624.7	4675.4	4707.1	4741.4	4771.8	4884.7
10°	4581.6	4622.2	4666.6	4712.2	4738.9	4794.6	4825.1	4830.2	4821.3	4771.8	4589.2
12.5°	4726.2	4766.7	4747.7	4756.6	4788.3	4689.4	4703.3	4632.3	4681.8	4437.0	4255.7
15°	4705.9	4703.3	4656.4	4504.3	4529.6	4340.7	4264.6	4206.3	4253.2	4227.8	4199.9
17.5°	4645.0	4529.6	4448.5	4265.9	4188.5	4135.2	4136.5	4137.8	4115.0	4139.0	4068.0
20°	4387.6	4258.2	4137.8	4073.1	4050.3	4012.2	4031.3	4012.2	4013.5	4021.1	3912.1
22.5°	4045.2	4005.9	3936.2	3956.4	3948.8	3983.1	3957.7	3918.4	3931.1	3874.0	3791.6
25°	3907.0	3861.3	3858.8	3866.4	3855.0	3839.8	3817.0	3757.3	3753.5	3735.8	3697.7
27.5°	3767.5	3770.0	3777.6	3754.8	3714.2	3683.8	3649.6	3620.4	3631.8	3611.5	3559.5
30°	3671.1	3669.9	3624.2	3603.9	3529.1	3530.4	3521.5	3503.7	3492.3	3493.6	3460.6
32.5°	3534.2	3494.9	3442.9	3417.5	3411.2	3388.3	3370.6	3374.4	3383.3	3351.6	3385.8
35°	3393.4	3312.3	3304.6	3283.1	3262.8	3247.6	3253.9	3228.6	3227.3	3223.5	2944.5
37.5°	3204.5	3165.2	3161.3	3138.5	3124.6	3120.8	3096.7	3100.5	3111.9	3132.2	2510.8
40°	3048.5	3013.0	3004.1	3002.8	2972.4	2969.9	2976.2	3000.3	3016.8	2890.0	2392.9
42.5°	2881.1	2883.6	2855.7	2838.0	2841.8	2853.2	2883.6	2799.9	2425.9	2311.7	2187.5
45°	2737.8	2725.1	2709.9	2704.8	2737.8	2715.0	2380.2	2196.3	2151.9	2146.9	1798.2
47.5°	2588.2	2584.4	2578.0	2581.8	2394.2	2134.2	2058.1	2034.0	2041.6	2036.6	1544.5
50°	2437.3	2442.3	2442.3	2132.9	1957.9	1914.8	1921.2	1942.7	1808.3	1687.8	1439.3
52.5°	2306.7	2267.3	1942.7	1831.1	1791.8	1810.8	1765.2	1596.5	1474.8	1403.8	1331.5
55°	2064.5	1775.3	1703.0	1685.3	1699.2	1530.6	1426.6	1317.5	1285.8	1278.2	1236.4
57.5°	1624.4	1566.1	1572.4	1501.4	1340.4	1245.3	1203.4	1188.2	1174.3	1164.1	101.4
60°	1436.7	1453.2	1330.2	1178.1	1113.4	1100.7	1090.6	1076.6	1074.1	1056.3	64.7
62.5°	1315.0	1156.5	1050.0	1011.9	996.7	992.9	973.9	967.6	821.7	112.9	48.2
65°	991.6	927.0	906.7	897.8	881.3	881.3	731.7	115.4	93.8	81.2	43.1
67.5°	809.0	804.0	793.8	782.4	532.6	111.6	97.6	85.0	73.5	64.7	38.0
70°	684.8	682.2	621.4	114.1	95.1	83.7	73.5	65.9	60.9	54.5	34.2
72.5°	561.8	114.1	96.4	83.7	72.3	65.9	59.6	53.3	48.2	44.4	27.9
75°	87.5	77.4	68.5	62.1	57.1	50.7	45.7	41.8	40.6	35.5	19.0
77.5°	63.4	54.5	49.5	44.4	39.3	35.5	30.4	26.6	24.1	20.3	13.9
80°	44.4	39.3	35.5	29.2	25.4	21.6	19.0	16.5	15.2	12.7	6.3
82.5°	25.4	21.6	19.0	15.2	13.9	11.4	10.1	8.9	8.9	6.3	6.3
85°	11.4	11.4	8.9	7.6	6.3	6.3	6.3	5.1	5.1	3.8	3.8
87.5°	5.1	5.1	5.1	5.1	5.1	3.8	3.8	3.8	3.8	3.8	2.5
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°	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3
2.5°	4357.2	4373.6	4405.3	4438.3	4401.5	4533.4	4523.3	4567.7	4591.8	4603.2	4629.8
5°	4745.2	4818.7	4842.8	4770.6	4728.7	4685.6	4587.9	4514.4	4523.3	4499.2	4411.7
7.5°	4737.6	4580.3	4368.6	4272.2	4264.6	4253.2	4283.6	4301.4	4303.9	4302.6	4300.1
10°	4336.9	4255.7	4241.8	4229.1	4234.2	4187.2	4165.7	4104.8	4137.8	4120.0	4126.4
12.5°	4215.1	4196.1	4121.3	4017.3	4079.4	4032.5	4005.9	4023.6	4003.4	3984.3	3978.0
15°	4142.8	4019.8	3978.0	3952.6	3934.9	3924.7	3933.6	3913.3	3907.0	3903.2	3912.1
17.5°	3993.2	3943.8	3898.1	3830.9	3832.2	3828.4	3853.7	3891.8	3894.3	3699.0	3522.8
20°	3875.3	3834.7	3776.4	3734.5	3791.6	3690.1	3298.3	3111.9	3082.7	3082.7	3087.8
22.5°	3781.4	3691.4	3695.2	3629.3	3095.4	2986.4	2988.9	3000.3	2948.3	2770.8	2751.8
25°	3653.4	3639.4	3361.7	2905.2	2909.0	2824.0	2693.4	2509.5	2310.5	2310.5	2277.5
27.5°	3557.0	3261.5	2855.7	2836.7	2551.4	2371.3	2259.7	2091.1	2068.3	2046.7	2049.2
30°	3474.6	2759.4	2769.5	2371.3	2160.8	2011.2	2002.3	1974.4	1960.5	1956.7	1942.7
32.5°	2746.7	2687.1	2318.1	2018.8	1936.4	1912.3	1900.9	1869.2	1867.9	1843.8	1676.4
35°	2575.5	2358.6	1940.2	1859.0	1834.9	1812.1	1793.1	1203.4	142.0	57.1	49.5
37.5°	2380.2	1970.6	1794.3	1757.6	1734.7	1282.0	128.1	44.4	31.7	22.8	20.3
40°	2017.5	1760.1	1704.3	1663.7	686.0	44.4	27.9	21.6	12.7	11.4	10.1
42.5°	1701.8	1658.7	1599.1	486.9	50.7	21.6	13.9	10.1	8.9	8.9	7.6
45°	1592.7	1554.7	644.2	48.2	31.7	10.1	8.9	8.9	7.6	5.1	5.1
47.5°	1491.3	1312.5	58.3	30.4	20.3	8.9	7.6	5.1	5.1	5.1	3.8
50°	1383.5	72.3	40.6	22.8	12.7	5.1	5.1	5.1	5.1	3.8	3.8
52.5°	258.7	50.7	33.0	20.3	6.3	5.1	5.1	5.1	3.8	3.8	3.8
55°	60.9	40.6	30.4	17.8	5.1	5.1	5.1	3.8	3.8	3.8	2.5
57.5°	45.7	30.4	24.1	16.5	5.1	3.8	3.8	3.8	3.8	3.8	2.5
60°	38.0	21.6	19.0	15.2	3.8	3.8	3.8	3.8	3.8	3.8	2.5
62.5°	26.6	17.8	13.9	11.4	3.8	3.8	3.8	3.8	3.8	3.8	3.8
65°	21.6	13.9	11.4	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
67.5°	19.0	11.4	7.6	2.5	3.8	3.8	3.8	3.8	3.8	3.8	3.8
70°	15.2	3.8	3.8	2.5	3.8	3.8	3.8	3.8	3.8	3.8	3.8
72.5°	12.7	3.8	2.5	2.5	3.8	3.8	3.8	3.8	3.8	3.8	3.8
75°	12.7	6.3	2.5	2.5	3.8	3.8	5.1	5.1	3.8	3.8	3.8
77.5°	8.9	6.3	2.5	2.5	3.8	3.8	5.1	5.1	3.8	3.8	3.8
80°	5.1	6.3	2.5	3.8	3.8	7.6	8.9	5.1	3.8	3.8	3.8
82.5°	5.1	6.3	7.6	7.6	3.8	6.3	7.6	6.3	5.1	3.8	3.8
85°	5.1	3.8	5.1	6.3	3.8	6.3	6.3	5.1	5.1	3.8	3.8
87.5°	2.5	3.8	3.8	5.1	5.1	5.1	6.3	5.1	5.1	5.1	3.8
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: P1214212

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3
2.5°	4642.5	4647.5	4567.7	4539.8	4563.9	4558.8	4537.2	4457.3	4448.5	4395.2	4317.8
5°	4437.0	4471.3	4429.4	4501.7	4467.5	4501.7	4605.7	4653.9	4732.5	4780.7	4798.5
7.5°	4293.8	4301.4	4301.4	4307.7	4314.0	4315.3	4307.7	4302.6	4281.1	4254.4	4302.6
10°	4120.0	4128.9	4144.1	4141.6	4140.3	4166.9	4173.3	4227.8	4225.3	4235.4	4272.2
12.5°	4030.0	3961.5	4023.6	4007.2	4030.0	3994.5	4060.4	4049.0	4052.8	4083.2	4161.9
15°	3880.4	3901.9	3917.1	3917.1	3926.0	3918.4	3910.8	3962.8	3994.5	3995.8	3990.7
17.5°	3592.5	3428.9	3596.3	3553.2	3896.8	3905.7	3876.6	3852.5	3852.5	3871.5	3912.1
20°	3084.0	3087.8	3089.1	3105.6	3125.8	3124.6	3125.8	3625.5	3862.6	3808.1	3771.3
22.5°	2703.6	2656.6	2744.1	2737.8	2846.9	2967.3	3082.7	3071.3	3078.9	3431.5	3748.5
25°	2167.2	2228.0	2178.6	2200.1	2323.1	2466.4	2555.2	2787.3	3039.6	3021.9	3104.3
27.5°	2040.4	2023.9	2046.7	2046.7	2063.2	2082.2	2131.7	2262.3	2486.7	2722.6	2945.8
30°	1919.9	1933.8	1936.4	1959.2	1971.9	1984.6	1992.2	2041.6	2092.3	2255.9	2531.1
32.5°	1441.8	1264.3	1663.7	1771.5	1862.8	1884.4	1899.6	1919.9	1956.7	1980.8	2119.0
35°	41.8	41.8	44.4	50.7	64.7	436.2	1661.2	1831.1	1855.2	1885.6	1911.0
37.5°	20.3	15.2	17.8	19.0	22.8	31.7	45.7	142.0	1581.3	1788.0	1815.9
40°	8.9	8.9	8.9	8.9	10.1	12.7	19.0	31.7	48.2	1271.9	1715.7
42.5°	7.6	7.6	7.6	7.6	7.6	7.6	8.9	11.4	22.8	54.5	900.3
45°	5.1	5.1	3.8	5.1	5.1	6.3	7.6	7.6	10.1	34.2	62.1
47.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	6.3	7.6	22.8	33.0
50°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	17.8	22.8
52.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	7.6	20.3
55°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.8	3.8	5.1	17.8
57.5°	2.5	2.5	2.5	2.5	2.5	3.8	2.5	2.5	3.8	3.8	16.5
60°	2.5	2.5	2.5	2.5	2.5	3.8	3.8	3.8	3.8	3.8	15.2
62.5°	3.8	3.8	2.5	3.8	2.5	2.5	3.8	3.8	3.8	3.8	10.1
65°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.5	3.8
67.5°	3.8	3.8	3.8	3.8	2.5	3.8	2.5	3.8	3.8	2.5	2.5
70°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.5	2.5	2.5	2.5
72.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.5	2.5	2.5	2.5
75°	3.8	3.8	3.8	3.8	3.8	3.8	5.1	5.1	2.5	2.5	2.5
77.5°	3.8	3.8	3.8	3.8	3.8	3.8	6.3	7.6	6.3	6.3	2.5
80°	3.8	3.8	3.8	3.8	3.8	3.8	6.3	6.3	6.3	6.3	8.9
82.5°	3.8	3.8	3.8	3.8	3.8	3.8	5.1	5.1	5.1	5.1	6.3
85°	3.8	3.8	3.8	3.8	3.8	3.8	5.1	5.1	5.1	3.8	5.1
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.1	3.8	3.8	3.8
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: P1214212

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3
2.5°	4324.2	4281.1	4267.1	4238.0	4235.4	4238.0	4231.6	4222.7	4227.8	4218.9	4211.3
5°	4808.6	4693.2	4618.4	4518.2	4380.0	4349.5	4341.9	4298.8	4283.6	4278.5	4258.2
7.5°	4416.8	4627.3	4754.1	4797.2	4634.9	4596.8	4552.4	4516.9	4482.7	4418.0	4378.7
10°	4243.0	4253.2	4374.9	4516.9	4747.7	4779.4	4803.5	4726.2	4704.6	4539.8	4504.3
12.5°	4202.4	4203.7	4217.7	4303.9	4485.2	4505.5	4590.5	4636.1	4691.9	4723.6	4698.3
15°	4017.3	4120.0	4196.1	4203.7	4220.2	4255.7	4281.1	4439.6	4506.8	4686.9	4676.7
17.5°	3931.1	3964.0	4074.4	4164.4	4149.2	4136.5	4156.8	4178.4	4243.0	4423.1	4420.6
20°	3787.8	3893.0	3952.6	4046.5	4131.4	4135.2	4112.4	4099.7	4074.4	4103.5	4130.2
22.5°	3726.9	3743.4	3855.0	3920.9	4017.3	4051.5	4056.6	4057.9	4043.9	4028.7	4021.1
25°	3720.6	3668.6	3725.6	3808.1	3879.1	3915.9	3957.7	3971.7	3966.6	3966.6	3959.0
27.5°	3044.7	3652.1	3621.7	3676.2	3762.4	3787.8	3809.3	3852.5	3879.1	3898.1	3907.0
30°	2900.1	3009.2	3540.5	3548.1	3635.6	3633.1	3657.2	3692.7	3726.9	3771.3	3782.7
32.5°	2565.3	2832.9	3241.2	3420.0	3511.3	3520.2	3532.9	3543.0	3574.7	3624.2	3667.3
35°	2055.6	2580.6	2777.1	3359.2	3375.7	3393.4	3401.0	3425.1	3435.3	3455.5	3493.6
37.5°	1860.3	2132.9	2664.3	2905.2	3219.7	3234.9	3275.5	3285.6	3302.1	3318.6	3347.8
40°	1747.4	1822.2	2217.9	2594.5	3094.1	3104.3	3118.2	3143.6	3144.9	3163.9	3190.5
42.5°	1657.4	1705.6	1821.0	2477.8	3005.4	3004.1	2971.1	2987.6	2995.2	3015.5	3052.3
45°	1323.9	1600.3	1673.9	2023.9	2392.9	2565.3	2896.3	2841.8	2840.5	2848.1	2887.4
47.5°	67.2	1505.2	1557.2	1670.1	2259.7	2266.1	2309.2	2671.9	2727.7	2709.9	2713.7
50°	45.7	104.0	1450.7	1502.7	1947.8	2105.0	2136.7	2153.2	2362.5	2595.8	2557.7
52.5°	35.5	59.6	888.9	1394.9	1582.6	1698.0	1902.1	2018.8	2031.5	2125.3	2443.6
55°	31.7	45.7	96.4	1287.1	1345.4	1370.8	1490.0	1694.2	1859.0	1908.5	1912.3
57.5°	27.9	41.8	65.9	582.1	1223.7	1228.8	1249.1	1320.1	1468.4	1604.1	1757.6
60°	25.4	36.8	52.0	100.2	1112.1	1124.8	1128.6	1147.6	1165.4	1257.9	1434.2
62.5°	15.2	29.2	45.7	72.3	880.1	1010.7	1009.4	1022.1	1038.6	1048.7	1084.2
65°	12.7	22.8	39.3	60.9	107.8	134.4	816.6	908.0	918.1	932.0	938.4
67.5°	11.4	20.3	29.2	48.2	81.2	92.6	106.5	131.9	720.3	811.6	824.3
70°	10.1	13.9	24.1	40.6	65.9	71.0	79.9	91.3	107.8	133.1	651.8
72.5°	6.3	10.1	16.5	29.2	50.7	57.1	62.1	69.7	77.4	92.6	106.5
75°	2.5	7.6	13.9	21.6	39.3	43.1	46.9	52.0	58.3	68.5	76.1
77.5°	2.5	6.3	11.4	15.2	25.4	29.2	34.2	38.0	43.1	48.2	55.8
80°	8.9	5.1	7.6	11.4	17.8	19.0	21.6	24.1	27.9	31.7	36.8
82.5°	6.3	7.6	8.9	7.6	8.9	11.4	12.7	15.2	16.5	19.0	20.3
85°	5.1	5.1	6.3	6.3	6.3	6.3	6.3	6.3	7.6	8.9	11.4
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.1	5.1
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: P1214212

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3
2.5°	4211.3	4208.8	4201.2	4201.2	4199.9	4205.0	4208.8	4212.6	4211.3	4218.9	4211.3
5°	4243.0	4236.7	4225.3	4215.1	4211.3	4213.9	4210.1	4213.9	4208.8	4215.1	4203.7
7.5°	4330.5	4309.0	4264.6	4246.8	4224.0	4222.7	4211.3	4208.8	4201.2	4201.2	4187.2
10°	4485.2	4381.3	4368.6	4315.3	4296.3	4203.7	4224.0	4189.8	4186.0	4169.5	4163.1
12.5°	4612.0	4530.9	4506.8	4459.9	4406.6	4218.9	4260.8	4187.2	4183.4	4150.5	4116.2
15°	4614.6	4661.5	4595.6	4466.2	4454.8	4325.5	4240.5	4215.1	4182.2	4083.2	4099.7
17.5°	4466.2	4574.0	4605.7	4577.8	4496.6	4409.1	4289.9	4239.2	4140.3	4095.9	4065.5
20°	4225.3	4334.3	4470.0	4478.9	4529.6	4467.5	4311.5	4229.1	4109.9	4032.5	4007.2
22.5°	4033.8	4113.7	4269.7	4341.9	4404.1	4425.6	4326.7	4205.0	4056.6	3981.8	3966.6
25°	3932.3	3950.1	3997.0	4082.0	4218.9	4317.8	4331.8	4202.4	4125.1	3961.5	3875.3
27.5°	3895.6	3880.4	3861.3	3904.4	4007.2	4127.6	4207.5	4229.1	4036.3	3880.4	3794.1
30°	3801.7	3810.6	3781.4	3766.2	3833.4	3957.7	4099.7	4135.2	3986.9	3825.8	3726.9
32.5°	3686.3	3701.6	3706.6	3680.0	3666.0	3752.3	3905.7	3990.7	3983.1	3748.5	3638.1
35°	3541.8	3584.9	3596.3	3597.6	3574.7	3560.8	3649.6	3825.8	3893.0	3713.0	3553.2
37.5°	3389.6	3402.3	3464.4	3480.9	3480.9	3439.1	3505.0	3645.8	3739.6	3633.1	3449.2
40°	3199.4	3240.0	3298.3	3327.5	3356.6	3360.4	3323.7	3422.6	3577.3	3550.7	3351.6
42.5°	3061.2	3087.8	3123.3	3162.6	3222.2	3237.4	3199.4	3217.1	3378.2	3447.9	3224.8
45°	2900.1	2935.6	2945.8	2988.9	3051.0	3095.4	3094.1	3057.4	3186.7	3272.9	3132.2
47.5°	2735.3	2769.5	2787.3	2808.8	2854.5	2911.5	2943.2	2926.8	2952.1	3120.8	3009.2
50°	2565.3	2584.4	2619.9	2644.0	2674.4	2707.4	2783.5	2798.7	2763.2	2897.6	2873.5
52.5°	2404.3	2410.6	2434.7	2458.8	2499.4	2523.5	2584.4	2630.0	2627.5	2666.8	2722.6
55°	2278.8	2250.9	2255.9	2275.0	2301.6	2338.4	2372.6	2443.6	2467.7	2475.3	2564.1
57.5°	1780.4	2067.0	2092.3	2091.1	2122.8	2139.3	2171.0	2217.9	2304.1	2285.1	2384.0
60°	1618.1	1649.8	1889.5	1917.4	1928.8	1944.0	1982.0	2025.1	2088.5	2129.1	2172.2
62.5°	1233.9	1426.6	1498.9	1710.7	1743.6	1752.5	1777.9	1798.2	1864.1	1956.7	1938.9
65°	954.9	1037.3	1257.9	1344.2	1524.2	1547.1	1582.6	1604.1	1623.2	1729.7	1734.7
67.5°	825.5	838.2	897.8	1063.9	1178.1	1354.3	1375.9	1394.9	1424.1	1500.2	1547.1
70°	705.1	720.3	736.8	750.7	899.1	1015.7	1179.3	1185.7	1204.7	1255.4	1361.9
72.5°	133.1	602.3	612.5	621.4	637.8	715.2	871.2	998.0	1005.6	1029.7	1127.3
75°	90.0	105.3	144.6	497.1	513.6	518.6	545.3	703.8	820.5	825.5	868.6
77.5°	64.7	72.3	87.5	104.0	265.0	398.2	404.5	433.7	554.2	641.7	649.3
80°	44.4	49.5	58.3	65.9	81.2	106.5	294.2	303.1	318.3	438.8	461.6
82.5°	25.4	29.2	34.2	41.8	48.2	60.9	78.6	101.4	206.7	220.6	292.9
85°	12.7	13.9	16.5	20.3	24.1	29.2	39.3	48.2	65.9	119.2	123.0
87.5°	6.3	6.3	6.3	6.3	10.1	11.4	13.9	17.8	22.8	34.2	44.4
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: P1214212

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3
2.5°	4212.6	4230.3	4245.6	4249.4	4249.4	4251.9	4255.7	4258.2	4260.8	4263.3	4260.8
5°	4205.0	4224.0	4236.7	4240.5	4240.5	4248.1	4254.4	4262.0	4265.9	4265.9	4263.3
7.5°	4186.0	4199.9	4216.4	4226.5	4227.8	4240.5	4251.9	4250.6	4255.7	4258.2	4264.6
10°	4160.6	4160.6	4188.5	4196.1	4202.4	4216.4	4220.2	4227.8	4245.6	4248.1	4264.6
12.5°	4147.9	4135.2	4168.2	4172.0	4193.6	4175.8	4198.6	4206.3	4188.5	4212.6	4180.9
15°	4090.9	4106.1	4101.0	4112.4	4150.5	4130.2	4192.3	4172.0	4217.7	4163.1	4259.5
17.5°	4043.9	4041.4	4061.7	4071.8	4079.4	4122.6	4139.0	4161.9	4179.6	4164.4	4202.4
20°	4009.7	3989.4	4004.6	4016.0	4042.7	4075.6	4085.8	4051.5	4111.1	4212.6	4236.7
22.5°	3945.0	3931.1	3948.8	3948.8	3989.4	3984.3	4022.4	4000.8	4056.6	4174.6	4297.6
25°	3857.5	3858.8	3877.8	3900.6	3908.3	3965.3	3985.6	4013.5	4083.2	4224.0	4298.8
27.5°	3768.8	3761.2	3772.6	3819.5	3858.8	3900.6	3907.0	4002.1	4097.2	4193.6	4259.5
30°	3680.0	3672.4	3680.0	3714.2	3761.2	3789.1	3858.8	3985.6	4074.4	4140.3	4202.4
32.5°	3584.9	3577.3	3595.0	3620.4	3702.8	3706.6	3844.8	3964.0	4033.8	4082.0	4070.6
35°	3483.4	3473.3	3489.8	3529.1	3605.2	3633.1	3777.6	3866.4	3945.0	3967.9	3914.6
37.5°	3361.7	3344.0	3364.2	3418.8	3498.7	3579.8	3700.3	3803.0	3844.8	3784.0	3720.6
40°	3234.9	3222.2	3257.7	3285.6	3379.5	3492.3	3630.5	3702.8	3676.2	3606.4	3536.7
42.5°	3122.0	3095.4	3127.1	3180.4	3286.9	3415.0	3526.6	3567.1	3503.7	3401.0	3319.9
45°	2983.8	2952.1	2990.2	3061.2	3175.3	3321.1	3408.6	3394.7	3286.9	3198.1	3086.5
47.5°	2839.3	2801.2	2839.3	2924.2	3052.3	3207.0	3270.4	3207.0	3071.3	2959.7	2869.7
50°	2697.2	2652.8	2689.6	2817.7	2943.2	3062.4	3061.2	2938.2	2857.0	2735.3	2656.6
52.5°	2556.5	2493.1	2529.8	2669.3	2794.9	2930.6	2830.4	2716.2	2618.6	2512.1	2486.7
55°	2382.7	2314.3	2363.7	2566.6	2663.0	2742.9	2583.1	2482.9	2386.5	2333.3	2301.6
57.5°	2217.9	2143.1	2186.2	2425.9	2496.9	2517.2	2370.1	2228.0	2171.0	2153.2	2107.6
60°	2048.0	1963.0	2003.6	2280.0	2329.5	2247.1	2102.5	1992.2	1980.8	1945.2	1909.7
62.5°	1885.6	1791.8	1817.2	2098.7	2121.5	1971.9	1838.7	1809.6	1781.7	1746.2	1727.1
65°	1699.2	1601.6	1637.1	1905.9	1884.4	1691.6	1616.8	1610.5	1573.7	1544.5	1572.4
67.5°	1528.0	1412.7	1462.1	1695.4	1597.8	1440.5	1410.1	1394.9	1365.7	1382.2	1089.3
70°	1340.4	1214.8	1282.0	1468.4	1323.9	1219.9	1208.5	1185.7	1186.9	943.5	795.1
72.5°	1131.1	1022.1	1119.7	1219.9	1047.4	1017.0	1000.5	998.0	805.2	654.3	617.6
75°	947.3	836.9	942.2	980.2	834.4	814.1	812.8	672.1	528.8	504.7	493.3
77.5°	739.3	654.3	754.5	697.4	640.4	617.6	554.2	415.9	398.2	381.7	143.3
80°	498.4	504.7	563.0	480.6	456.5	389.3	306.9	294.2	253.6	101.4	79.9
82.5°	303.1	380.4	358.9	300.5	294.2	211.8	194.0	98.9	73.5	58.3	50.7
85°	157.2	192.7	185.1	163.6	121.7	109.1	60.9	46.9	38.0	29.2	24.1
87.5°	53.3	71.0	68.5	54.5	41.8	33.0	21.6	17.8	12.7	10.1	8.9
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: P1214212

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3
2.5°	4258.2	4258.2	4255.7	4258.2	4259.5	4257.0	4257.0	4259.5	4260.8	4262.0	4268.4
5°	4264.6	4267.1	4270.9	4278.5	4279.8	4295.0	4301.4	4305.2	4309.0	4310.2	4301.4
7.5°	4278.5	4287.4	4295.0	4293.8	4284.9	4260.8	4253.2	4246.8	4258.2	4287.4	4321.6
10°	4291.2	4250.6	4174.6	4278.5	4246.8	4276.0	4362.2	4381.3	4439.6	4522.0	4546.1
12.5°	4203.7	4315.3	4339.4	4222.7	4438.3	4358.4	4453.5	4537.2	4561.3	4645.0	4594.3
15°	4297.6	4352.1	4388.9	4505.5	4492.8	4561.3	4587.9	4571.5	4575.3	4596.8	4653.9
17.5°	4296.3	4405.3	4429.4	4508.1	4561.3	4562.6	4555.0	4547.4	4567.7	4584.1	4549.9
20°	4369.8	4405.3	4452.3	4484.0	4494.1	4506.8	4530.9	4511.9	4473.8	4437.0	4421.8
22.5°	4333.1	4413.0	4453.5	4458.6	4452.3	4413.0	4377.4	4324.2	4306.4	4287.4	4293.8
25°	4340.7	4377.4	4372.4	4352.1	4325.5	4251.9	4234.2	4211.3	4177.1	4094.7	4019.8
27.5°	4286.1	4267.1	4244.3	4194.8	4146.7	4107.3	4063.0	3989.4	3928.5	3839.8	3806.8
30°	4194.8	4118.8	4063.0	4033.8	3986.9	3920.9	3853.7	3763.7	3686.3	3668.6	3652.1
32.5°	4019.8	3945.0	3899.4	3828.4	3748.5	3669.9	3592.5	3557.0	3540.5	3543.0	3527.8
35°	3841.0	3775.1	3706.6	3600.1	3540.5	3461.9	3434.0	3426.4	3411.2	3394.7	3376.9
37.5°	3650.8	3573.5	3470.8	3407.4	3347.8	3316.1	3302.1	3290.7	3264.1	3234.9	3214.6
40°	3467.0	3327.5	3270.4	3208.3	3190.5	3176.6	3156.3	3128.4	3091.6	3086.5	3077.7
42.5°	3220.9	3120.8	3071.3	3058.6	3037.1	3013.0	2995.2	2964.8	2949.6	2959.7	2967.3
45°	2987.6	2936.9	2920.4	2905.2	2864.6	2830.4	2819.0	2808.8	2821.5	2877.3	2744.1
47.5°	2798.7	2778.4	2758.1	2732.7	2694.7	2669.3	2680.7	2690.9	2702.3	2292.7	2092.3
50°	2635.1	2607.2	2575.5	2547.6	2524.8	2522.2	2581.8	2403.0	2012.5	2002.3	1799.4
52.5°	2456.3	2414.4	2395.4	2378.9	2389.1	2427.1	2008.7	1864.1	1788.0	1553.4	1449.4
55°	2263.5	2226.8	2226.8	2242.0	2187.5	1772.8	1751.2	1514.1	1370.8	1330.2	1313.7
57.5°	2070.8	2067.0	2088.5	1909.7	1609.2	1543.3	1297.3	1245.3	1222.4	1217.4	1190.7
60°	1894.5	1930.0	1615.5	1486.2	1292.2	1165.4	1129.9	1123.5	1099.4	1090.6	1066.5
62.5°	1753.8	1454.5	1354.3	1105.8	1041.1	1024.6	1005.6	996.7	975.2	861.0	252.3
65°	1266.8	1197.1	971.4	929.5	924.4	900.3	892.7	802.7	188.9	126.8	107.8
67.5°	956.1	848.4	819.2	811.6	787.5	739.3	219.4	125.5	107.8	93.8	82.4
70°	734.2	715.2	693.6	675.9	199.1	124.3	107.8	91.3	78.6	69.7	63.4
72.5°	601.1	588.4	342.4	130.6	106.5	90.0	79.9	69.7	60.9	55.8	50.7
75°	470.5	130.6	107.8	90.0	77.4	65.9	58.3	52.0	46.9	43.1	39.3
77.5°	106.5	86.2	73.5	62.1	55.8	49.5	44.4	38.0	34.2	30.4	25.4
80°	65.9	57.1	48.2	44.4	38.0	31.7	27.9	25.4	20.3	19.0	16.5
82.5°	43.1	34.2	30.4	25.4	20.3	19.0	16.5	12.7	11.4	10.1	8.9
85°	19.0	16.5	13.9	11.4	8.9	7.6	6.3	5.1	5.1	5.1	5.1
87.5°	6.3	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.5	2.5
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: P1214212

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3
2.5°	4270.9	4293.8	4315.3	4309.0	4286.1	4250.6	4240.5	4226.5	4236.7	4258.2	4267.1
5°	4301.4	4288.7	4334.3	4401.5	4510.6	4520.7	4596.8	4614.6	4675.4	4713.5	4712.2
7.5°	4344.5	4524.5	4599.4	4680.5	4717.3	4708.4	4719.8	4711.0	4697.0	4690.7	4683.1
10°	4563.9	4700.8	4728.7	4728.7	4671.6	4594.3	4561.3	4504.3	4390.1	4392.7	4373.6
12.5°	4691.9	4740.1	4674.2	4618.4	4388.9	4300.1	4203.7	4158.1	4131.4	4090.9	4106.1
15°	4624.7	4556.2	4516.9	4336.9	4196.1	4036.3	4038.9	4011.0	3981.8	3984.3	3965.3
17.5°	4525.8	4471.3	4192.3	4068.0	3999.6	3937.4	3926.0	3889.2	3870.2	3863.9	3862.6
20°	4390.1	4193.6	3985.6	3955.2	3872.7	3801.7	3790.3	3801.7	3860.1	3756.1	3403.6
22.5°	4231.6	3948.8	3888.0	3801.7	3745.9	3718.0	3787.8	3470.8	2991.4	3049.8	2987.6
25°	3962.8	3839.8	3735.8	3669.9	3663.5	3492.3	2910.3	2849.4	2541.3	2376.4	2191.3
27.5°	3766.2	3713.0	3603.9	3592.5	3510.1	2855.7	2552.7	2217.9	2094.9	2075.9	2035.3
30°	3647.0	3570.9	3505.0	3217.1	2801.2	2299.0	2048.0	2001.0	1979.5	1956.7	1921.2
32.5°	3503.7	3431.5	3463.2	2704.8	2233.1	1979.5	1928.8	1894.5	1855.2	1840.0	1711.9
35°	3357.9	3324.9	2706.1	2273.7	1919.9	1859.0	1821.0	1785.5	1420.3	343.7	116.7
37.5°	3201.9	3194.3	2432.2	1886.9	1798.2	1741.1	1633.3	337.3	79.9	54.5	40.6
40°	3080.2	2433.5	1922.4	1769.0	1696.7	1606.7	225.7	55.8	35.5	21.6	13.9
42.5°	2999.0	2188.7	1720.8	1659.9	1502.7	166.1	57.1	24.1	13.9	11.4	8.9
45°	2311.7	1728.4	1607.9	1544.5	190.2	57.1	33.0	11.4	8.9	7.6	5.1
47.5°	2132.9	1569.9	1498.9	337.3	63.4	30.4	22.8	7.6	5.1	5.1	5.1
50°	1615.5	1450.7	1193.3	82.4	40.6	21.6	16.5	5.1	5.1	5.1	3.8
52.5°	1416.5	1339.1	128.1	54.5	31.7	16.5	10.1	3.8	3.8	3.8	3.8
55°	1294.7	849.6	76.1	41.8	26.6	15.2	6.3	3.8	3.8	3.8	2.5
57.5°	1184.4	114.1	55.8	35.5	24.1	13.9	3.8	3.8	3.8	3.8	2.5
60°	1004.3	82.4	45.7	31.7	22.8	12.7	3.8	3.8	3.8	3.8	3.8
62.5°	130.6	64.7	39.3	27.9	16.5	10.1	2.5	3.8	3.8	3.8	3.8
65°	95.1	50.7	35.5	19.0	10.1	3.8	2.5	3.8	3.8	3.8	3.8
67.5°	73.5	41.8	26.6	16.5	8.9	2.5	2.5	3.8	3.8	3.8	3.8
70°	58.3	35.5	21.6	13.9	7.6	2.5	2.5	3.8	3.8	3.8	3.8
72.5°	45.7	25.4	15.2	7.6	5.1	2.5	2.5	3.8	3.8	3.8	3.8
75°	34.2	20.3	11.4	6.3	2.5	2.5	2.5	3.8	3.8	3.8	3.8
77.5°	22.8	12.7	8.9	5.1	5.1	5.1	6.3	6.3	3.8	3.8	3.8
80°	15.2	8.9	6.3	6.3	6.3	5.1	6.3	6.3	3.8	6.3	3.8
82.5°	7.6	6.3	6.3	5.1	5.1	3.8	5.1	5.1	5.1	5.1	3.8
85°	5.1	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.1	5.1	3.8
87.5°	2.5	2.5	2.5	2.5	3.8	3.8	3.8	3.8	5.1	5.1	3.8
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: P1214212

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3
2.5°	4255.7	4259.5	4249.4	4303.9	4276.0	4278.5	4289.9	4260.8	4267.1	4246.8	4232.9
5°	4717.3	4724.9	4732.5	4735.0	4740.1	4746.5	4738.9	4735.0	4727.4	4702.1	4675.4
7.5°	4645.0	4636.1	4632.3	4637.4	4646.3	4650.1	4643.7	4652.6	4685.6	4699.5	4708.4
10°	4264.6	4224.0	4251.9	4248.1	4216.4	4322.9	4293.8	4310.2	4321.6	4438.3	4509.3
12.5°	4083.2	4108.6	4060.4	4036.3	4068.0	4089.6	4111.1	4065.5	4128.9	4099.7	4193.6
15°	3931.1	3915.9	3910.8	3912.1	3905.7	3936.2	3943.8	3953.9	3962.8	4002.1	4017.3
17.5°	3862.6	3888.0	3898.1	3905.7	3893.0	3879.1	3865.1	3844.8	3851.2	3841.0	3870.2
20°	3166.4	3081.5	3076.4	3125.8	3071.3	3101.7	3175.3	3667.3	3650.8	3842.3	3777.6
22.5°	2642.7	2562.8	2494.3	2434.7	2519.7	2555.2	2692.2	2846.9	3097.9	3058.6	3331.3
25°	2158.3	2129.1	2111.4	2102.5	2108.8	2106.3	2136.7	2209.0	2323.1	2592.0	2939.4
27.5°	2018.8	2004.8	1998.5	1978.2	1993.4	1988.4	2012.5	2027.7	2061.9	2088.5	2201.4
30°	1908.5	1892.0	1880.6	1859.0	1874.2	1875.5	1883.1	1922.4	1936.4	1959.2	1994.7
32.5°	697.4	410.9	385.5	366.5	400.7	522.5	916.8	1602.9	1828.6	1846.3	1886.9
35°	68.5	57.1	50.7	50.7	52.0	57.1	76.1	200.4	366.5	1416.5	1772.8
37.5°	26.6	22.8	19.0	17.8	19.0	21.6	29.2	38.0	52.0	107.8	480.6
40°	11.4	10.1	8.9	8.9	8.9	8.9	10.1	12.7	19.0	35.5	55.8
42.5°	7.6	6.3	6.3	6.3	6.3	6.3	6.3	6.3	8.9	11.4	22.8
45°	5.1	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.1	6.3	10.1
47.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.1
50°	3.8	3.8	3.8	3.8	2.5	3.8	2.5	3.8	3.8	3.8	3.8
52.5°	3.8	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.8	3.8
55°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.8
57.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
60°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
62.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.8	3.8	2.5
65°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.8	2.5
67.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
70°	3.8	3.8	2.5	3.8	2.5	2.5	3.8	3.8	3.8	2.5	2.5
72.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	7.6	7.6	5.1
75°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	6.3	7.6	6.3
77.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	6.3	6.3	6.3
80°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.1	5.1	5.1
82.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.1	5.1	5.1
85°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
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: P1214212

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3
2.5°	4208.8	4207.5	4234.2	4254.4	4246.8	4254.4	4263.3	4264.6	4267.1	4257.0	4253.2
5°	4624.7	4585.4	4509.3	4454.8	4391.4	4276.0	4218.9	4225.3	4226.5	4222.7	4227.8
7.5°	4704.6	4700.8	4674.2	4662.8	4619.7	4537.2	4405.3	4382.5	4326.7	4291.2	4262.0
10°	4504.3	4595.6	4619.7	4660.2	4685.6	4670.4	4558.8	4542.3	4506.8	4466.2	4475.1
12.5°	4287.4	4362.2	4366.0	4586.7	4636.1	4641.2	4598.1	4620.9	4626.0	4534.7	4481.4
15°	4021.1	4056.6	4131.4	4336.9	4486.5	4580.3	4608.2	4620.9	4558.8	4555.0	4533.4
17.5°	3904.4	3927.3	3961.5	4076.9	4303.9	4442.1	4560.1	4551.2	4575.3	4557.5	4503.0
20°	3757.3	3776.4	3837.2	3895.6	4007.2	4191.0	4411.7	4428.2	4459.9	4456.1	4471.3
22.5°	3754.8	3687.6	3697.7	3743.4	3860.1	4024.9	4259.5	4314.0	4334.3	4348.3	4364.8
25°	2978.7	3512.6	3610.3	3639.4	3715.5	3811.9	4088.3	4108.6	4146.7	4208.8	4254.4
27.5°	2580.6	2943.2	3333.8	3536.7	3584.9	3664.8	3829.6	3860.1	3989.4	4004.6	4075.6
30°	2036.6	2316.8	2900.1	3388.3	3468.2	3524.0	3640.7	3701.6	3757.3	3818.2	3893.0
32.5°	1916.1	1960.5	2283.8	2803.7	3425.1	3383.3	3469.5	3506.3	3567.1	3620.4	3674.9
35°	1805.8	1836.2	1904.7	2296.5	2789.8	3267.9	3326.2	3350.3	3384.5	3425.1	3464.4
37.5°	1690.4	1736.0	1782.9	1888.2	2580.6	3176.6	3175.3	3203.2	3223.5	3257.7	3290.7
40°	306.9	1594.0	1670.1	1738.6	2001.0	2533.6	3033.3	3046.0	3059.9	3081.5	3115.7
42.5°	49.5	266.3	1564.8	1630.8	1705.6	2268.6	2968.6	2916.6	2907.7	2922.9	2953.4
45°	25.4	64.7	314.5	1523.0	1590.2	1809.6	2427.1	2826.6	2817.7	2788.5	2794.9
47.5°	19.0	40.6	77.4	526.3	1488.7	1553.4	2239.4	2215.4	2384.0	2707.4	2657.9
50°	16.5	27.9	45.7	107.8	1315.0	1430.4	1724.6	2015.0	2103.8	2115.2	2503.2
52.5°	15.2	19.0	33.0	69.7	276.4	1322.6	1402.5	1504.0	1653.6	1974.4	1966.8
55°	13.9	17.8	27.9	46.9	96.4	1192.0	1274.4	1293.5	1325.2	1478.6	1681.5
57.5°	7.6	16.5	26.6	40.6	72.3	218.1	1156.5	1171.7	1197.1	1203.4	1275.7
60°	3.8	15.2	24.1	35.5	53.3	101.4	1039.8	1057.6	1072.8	1075.3	1098.2
62.5°	2.5	13.9	20.3	33.0	44.4	72.3	246.0	502.2	954.9	954.9	981.5
65°	2.5	10.1	12.7	21.6	40.6	59.6	104.0	120.5	234.6	577.0	861.0
67.5°	2.5	3.8	11.4	17.8	30.4	45.7	76.1	88.8	106.5	121.7	225.7
70°	2.5	2.5	10.1	11.4	19.0	34.2	54.5	62.1	72.3	82.4	95.1
72.5°	2.5	2.5	8.9	8.9	12.7	22.8	41.8	45.7	52.0	58.3	67.2
75°	6.3	5.1	7.6	7.6	8.9	17.8	31.7	35.5	38.0	43.1	49.5
77.5°	6.3	6.3	6.3	6.3	6.3	11.4	20.3	22.8	26.6	29.2	34.2
80°	5.1	5.1	5.1	6.3	6.3	7.6	12.7	13.9	15.2	19.0	20.3
82.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	7.6	8.9	11.4
85°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.1	5.1	5.1	5.1
87.5°	3.8	3.8	3.8	2.5	2.5	3.8	3.8	3.8	3.8	3.8	3.8
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: P1214212

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3	4225.3
2.5°	4251.9	4244.3	4238.0	4241.8	4230.3	4225.3	4229.1	4230.3	4232.9	4239.2	4240.5
5°	4240.5	4238.0	4249.4	4255.7	4253.2	4255.7	4255.7	4250.6	4243.0	4248.1	4236.7
7.5°	4232.9	4216.4	4203.7	4206.3	4193.6	4208.8	4222.7	4243.0	4249.4	4249.4	4236.7
10°	4363.5	4345.7	4274.7	4226.5	4194.8	4166.9	4232.9	4165.7	4197.4	4076.9	4215.1
12.5°	4471.3	4495.4	4463.7	4331.8	4309.0	4225.3	4273.5	4191.0	4166.9	4028.7	4073.1
15°	4514.4	4468.7	4458.6	4421.8	4372.4	4348.3	4218.9	4205.0	4165.7	4180.9	4122.6
17.5°	4476.4	4499.2	4468.7	4444.7	4393.9	4336.9	4259.5	4191.0	4136.5	4014.8	4117.5
20°	4439.6	4470.0	4378.7	4393.9	4399.0	4333.1	4292.5	4235.4	4166.9	4052.8	3964.0
22.5°	4378.7	4357.2	4364.8	4341.9	4322.9	4331.8	4276.0	4236.7	4121.3	4069.3	3948.8
25°	4279.8	4272.2	4292.5	4289.9	4244.3	4229.1	4201.2	4159.3	4113.7	4030.0	3931.1
27.5°	4118.8	4158.1	4193.6	4210.1	4186.0	4145.4	4130.2	4106.1	4074.4	3989.4	3915.9
30°	3948.8	3993.2	4033.8	4069.3	4090.9	4073.1	4059.2	4045.2	3997.0	3941.2	3858.8
32.5°	3754.8	3813.1	3868.9	3912.1	3959.0	3972.9	3962.8	3951.4	3910.8	3860.1	3794.1
35°	3530.4	3610.3	3691.4	3768.8	3789.1	3822.0	3855.0	3836.0	3814.4	3763.7	3702.8
37.5°	3340.1	3397.2	3455.5	3553.2	3624.2	3666.0	3724.4	3732.0	3695.2	3671.1	3591.2
40°	3143.6	3195.6	3280.5	3337.6	3435.3	3483.4	3545.6	3573.5	3564.6	3550.7	3480.9
42.5°	2988.9	3014.2	3070.0	3120.8	3217.1	3316.1	3370.6	3401.0	3432.7	3421.3	3385.8
45°	2824.0	2846.9	2865.9	2910.3	3004.1	3091.6	3158.8	3204.5	3261.5	3288.2	3245.0
47.5°	2660.5	2666.8	2689.6	2726.4	2782.2	2849.4	2962.3	3030.7	3084.0	3136.0	3108.1
50°	2534.9	2512.1	2515.9	2538.7	2584.4	2650.3	2731.5	2827.8	2888.7	2952.1	2958.5
52.5°	2215.4	2400.5	2356.1	2368.8	2392.9	2424.6	2509.5	2604.7	2679.5	2734.0	2788.5
55°	1859.0	1895.8	2252.1	2201.4	2216.6	2244.5	2283.8	2378.9	2451.2	2527.3	2603.4
57.5°	1441.8	1715.7	1729.7	2059.4	2051.8	2054.3	2087.3	2141.8	2214.1	2309.2	2373.9
60°	1121.0	1236.4	1460.8	1575.0	1864.1	1874.2	1893.3	1925.0	1987.1	2077.1	2179.8
62.5°	989.1	1004.3	1084.2	1255.4	1443.1	1670.1	1710.7	1715.7	1743.6	1833.7	1952.9
65°	868.6	878.8	902.9	920.6	1077.9	1297.3	1492.5	1524.2	1542.0	1595.3	1696.7
67.5°	598.5	757.0	778.6	791.3	806.5	908.0	1150.2	1311.2	1331.5	1378.4	1467.2
70°	115.4	239.7	655.6	669.6	677.2	700.0	739.3	995.5	1129.9	1174.3	1214.8
72.5°	78.6	92.6	111.6	263.8	558.0	570.6	579.5	612.5	839.5	968.8	990.4
75°	57.1	63.4	74.8	92.6	114.1	371.6	460.3	476.8	493.3	681.0	790.0
77.5°	40.6	45.7	50.7	59.6	69.7	90.0	129.3	356.3	372.8	381.7	538.9
80°	22.8	27.9	34.2	39.3	44.4	50.7	65.9	82.4	183.9	268.8	282.8
82.5°	12.7	15.2	17.8	21.6	24.1	30.4	36.8	44.4	58.3	86.2	182.6
85°	6.3	6.3	6.3	8.9	10.1	13.9	16.5	19.0	26.6	36.8	50.7
87.5°	3.8	3.8	5.1	5.1	5.1	6.3	6.3	6.3	7.6	11.4	16.5
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: P1214212

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	4225.3	4225.3	4225.3	4225.3	4225.3
2.5°	4241.8	4238.0	4238.0	4253.2	4249.4
5°	4234.2	4230.3	4229.1	4245.6	4238.0
7.5°	4227.8	4213.9	4210.1	4225.3	4218.9
10°	4202.4	4192.3	4198.6	4193.6	4191.0
12.5°	4159.3	4153.0	4126.4	4128.9	4150.5
15°	4082.0	4107.3	4061.7	4102.3	4111.1
17.5°	3940.0	3997.0	4041.4	4065.5	4069.3
20°	4003.4	4022.4	3999.6	4000.8	4016.0
22.5°	3920.9	3929.8	3936.2	3928.5	3961.5
25°	3789.1	3754.8	3828.4	3843.6	3896.8
27.5°	3748.5	3720.6	3754.8	3752.3	3796.7
30°	3715.5	3625.5	3640.7	3664.8	3719.3
32.5°	3668.6	3526.6	3511.3	3564.6	3625.5
35°	3586.2	3451.7	3416.2	3450.5	3541.8
37.5°	3516.4	3347.8	3276.7	3322.4	3441.6
40°	3412.4	3266.6	3156.3	3196.9	3337.6
42.5°	3288.2	3196.9	3026.9	3054.8	3215.9
45°	3162.6	3081.5	2901.4	2915.3	3106.8
47.5°	3034.5	2959.7	2770.8	2773.3	2967.3
50°	2909.0	2810.1	2654.1	2609.7	2819.0
52.5°	2745.4	2654.1	2536.2	2463.9	2678.2
55°	2590.7	2488.0	2401.8	2290.2	2518.4
57.5°	2439.8	2325.7	2267.3	2124.1	2337.1
60°	2233.1	2178.6	2092.3	1955.4	2173.5
62.5°	2021.3	2003.6	1916.1	1774.1	1971.9
65°	1774.1	1815.9	1725.9	1604.1	1762.6
67.5°	1540.7	1615.5	1516.6	1441.8	1561.0
70°	1292.2	1378.4	1322.6	1296.0	1346.7
72.5°	1047.4	1131.1	1136.2	1117.2	1133.7
75°	809.0	901.6	952.3	923.2	927.0
77.5°	613.8	658.1	713.9	736.8	731.7
80°	379.2	456.5	502.2	549.1	532.6
82.5°	191.5	256.2	312.0	362.7	338.6
85°	79.9	102.7	143.3	188.9	181.3
87.5°	24.1	40.6	43.1	60.9	57.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)