

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: P1213177

Luminaire Tested: 4SNLED-LD5-76SL-RM-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213177
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-LD5-76SL-RM-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

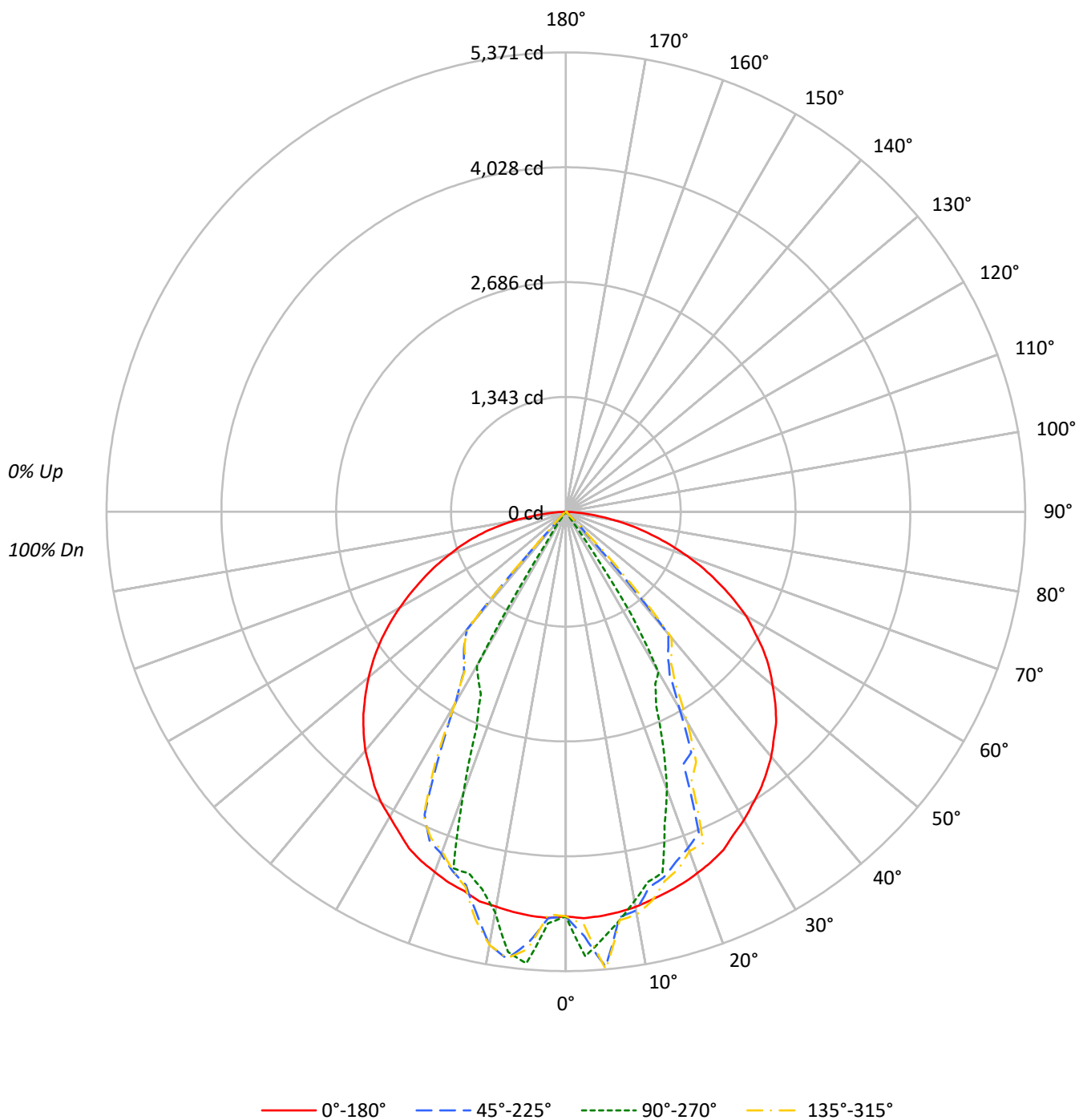
Lumens per Lamp: N/A
Luminaire Lumens: 6725.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1213177

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L930-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1213177

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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°	38219	38219	38219	38219
5°	38375	39308	38364	41627
10°	38284	35569	38261	36597
15°	38179	33200	38085	33286
20°	38223	26150	38114	26472
25°	38334	18924	38147	17858
30°	38159	16601	37756	15959
35°	38273	366	37711	444
40°	38403	79	37484	79
45°	38539	47	37091	36
50°	38245	37	36490	37
55°	38020	26	35684	26
60°	37302	27	34385	27
65°	35357	46	32839	30
70°	32800	50	31224	50
75°	29013	56	29488	56
80°	23568	64	24912	64
85°	13868	75	14155	75

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 41612 cd/sqm

TEST NUMBER: P1213177

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.5	7.1
10°-20°	1294.3	19.2
20°-30°	1646.9	24.5
30°-40°	1391.2	20.7
40°-50°	909.5	13.5
50°-60°	573.1	8.5
60°-70°	305.1	4.5
70°-80°	111.2	1.7
80°-90°	19.2	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3415.7	50.8
0°-40°	4806.9	71.5
0°-60°	6289.6	93.5
0°-90°	6725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6725.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4730	4730	4730	4730	4730	
5°	4744	5005	4742	5300	4744	451
15°	4602	4368	4590	4379	4602	1301
25°	4362	2494	4341	2353	4362	2006
35°	3964	47	3906	57	3964	2480
45°	3478	6	3347	4	3478	2674
55°	2819	3	2646	3	2819	2512
65°	1973	4	1832	3	1973	1954
75°	1038	4	1055	4	1038	1101
85°	203	4	207	4	203	257
90°	0	0	0	0	0	

TEST NUMBER: P1213177

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5
2.5°	4756.5	4759.3	4760.8	4763.6	4767.8	4769.3	4772.1	4769.3	4769.3	4769.3	4769.3
5°	4743.7	4749.4	4753.7	4759.3	4769.3	4770.7	4782.0	4783.5	4789.1	4800.5	4809.0
7.5°	4722.4	4728.1	4736.6	4750.8	4765.0	4780.6	4800.5	4821.8	4851.6	4880.0	4915.5
10°	4691.2	4698.3	4708.2	4721.0	4790.6	4800.5	4844.5	4905.5	4922.6	5012.0	5078.7
12.5°	4645.8	4669.9	4695.5	4706.8	4773.5	4878.6	5026.2	4996.4	4963.7	5256.1	5251.9
15°	4601.8	4634.4	4621.6	4713.9	4774.9	4958.1	4895.6	5029.0	5273.2	5213.5	5216.4
17.5°	4554.9	4562.0	4633.0	4709.7	4818.9	4912.6	4989.3	5172.4	5220.6	5224.9	5172.4
20°	4495.3	4529.4	4633.0	4702.6	4887.1	4931.1	5097.2	5190.8	5171.0	5122.7	5033.3
22.5°	4434.3	4537.9	4642.9	4740.9	4870.0	4987.9	5070.2	5114.2	5010.6	4820.4	4718.2
25°	4361.9	4422.9	4560.6	4704.0	4865.8	4933.9	4982.2	4911.2	4776.4	4606.0	4434.3
27.5°	4249.8	4347.7	4523.7	4685.5	4831.7	4914.0	4836.0	4665.6	4448.5	4336.3	4258.3
30°	4163.2	4290.9	4435.7	4591.8	4743.7	4792.0	4593.3	4398.8	4249.8	4137.6	4120.6
32.5°	4058.1	4239.8	4377.5	4526.5	4654.3	4590.4	4397.4	4146.1	4022.6	3980.1	3997.1
35°	3964.5	4102.1	4282.4	4428.6	4520.9	4377.5	4072.3	3916.2	3856.6	3880.7	3849.5
37.5°	3852.3	4034.0	4200.1	4326.4	4295.2	4079.4	3821.1	3721.7	3728.8	3709.0	3649.3
40°	3735.9	3909.1	4082.3	4201.5	4092.2	3762.9	3591.1	3569.9	3574.1	3510.2	3425.1
42.5°	3599.7	3757.2	3930.4	4038.3	3802.6	3545.7	3429.3	3432.2	3395.3	3305.8	3260.4
45°	3477.6	3622.4	3802.6	3812.6	3523.0	3308.7	3274.6	3237.7	3155.4	3125.6	3091.5
47.5°	3321.5	3481.8	3630.9	3577.0	3249.1	3115.6	3090.1	3009.2	2968.0	2945.3	2916.9
50°	3155.4	3317.2	3453.5	3300.2	2990.7	2959.5	2875.8	2811.9	2783.5	2759.4	2733.8
52.5°	2997.8	3131.3	3270.4	3006.3	2792.0	2762.2	2667.1	2630.2	2601.8	2574.8	2569.2
55°	2819.0	2936.8	3031.9	2726.7	2601.8	2532.3	2464.1	2438.6	2411.6	2398.8	2420.1
57.5°	2616.0	2749.4	2735.2	2451.3	2396.0	2295.2	2269.7	2252.6	2232.8	2241.3	2063.8
60°	2432.9	2535.1	2465.5	2249.8	2156.1	2088.0	2065.3	2053.9	2065.3	1892.1	1663.6
62.5°	2207.2	2322.2	2181.7	2014.2	1914.8	1882.2	1862.3	1877.9	1711.8	1521.6	1466.3
65°	1973.0	2097.9	1890.7	1761.5	1699.1	1670.7	1669.2	1537.2	1374.0	1300.2	1300.2
67.5°	1747.3	1876.5	1609.6	1501.8	1477.6	1480.5	1398.1	1198.0	1152.6	1102.9	959.5
70°	1507.4	1621.0	1330.0	1264.7	1250.5	1240.6	1040.4	986.5	932.6	800.6	789.2
72.5°	1269.0	1324.3	1068.8	1053.2	1050.4	872.9	833.2	740.9	678.5	662.9	655.8
75°	1037.6	1020.6	844.6	858.8	723.9	661.5	597.6	543.6	535.1	529.4	132.0
77.5°	819.0	733.8	665.7	579.1	518.1	440.0	427.2	418.7	275.4	99.4	80.9
80°	596.2	475.5	442.9	376.1	320.8	308.0	315.1	96.5	76.6	63.9	55.4
82.5°	379.0	303.8	248.4	217.2	211.5	92.3	68.1	55.4	48.3	41.2	34.1
85°	203.0	134.8	124.9	105.0	62.5	42.6	35.5	27.0	22.7	18.5	17.0
87.5°	63.9	53.9	44.0	35.5	21.3	14.2	11.4	9.9	8.5	7.1	7.1
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: P1213177

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5
2.5°	4766.4	4769.3	4767.8	4772.1	4772.1	4777.8	4782.0	4786.3	4794.8	4799.1	4831.7
5°	4827.5	4834.6	4855.9	4875.7	4899.9	4907.0	4948.1	4958.1	5006.3	5012.0	5171.0
7.5°	4963.7	4990.7	5041.8	5092.9	5144.0	5176.6	5233.4	5268.9	5307.2	5341.3	5467.6
10°	5128.4	5173.8	5223.5	5274.6	5304.4	5366.8	5400.9	5406.6	5396.7	5341.3	5136.9
12.5°	5290.2	5335.6	5314.3	5324.3	5359.7	5249.0	5264.6	5185.2	5240.5	4966.6	4763.6
15°	5267.5	5264.6	5212.1	5041.8	5070.2	4858.7	4773.5	4708.2	4760.8	4732.4	4701.1
17.5°	5199.4	5070.2	4979.3	4774.9	4688.4	4628.7	4630.2	4631.6	4606.0	4633.0	4553.5
20°	4911.2	4766.4	4631.6	4559.2	4533.6	4491.1	4512.4	4491.1	4492.5	4501.0	4378.9
22.5°	4528.0	4484.0	4405.9	4428.6	4420.1	4458.4	4430.0	4386.0	4400.2	4336.3	4244.1
25°	4373.2	4322.1	4319.3	4327.8	4315.1	4298.0	4272.5	4205.8	4201.5	4181.6	4139.0
27.5°	4217.1	4219.9	4228.5	4202.9	4157.5	4123.4	4085.1	4052.5	4065.2	4042.5	3984.3
30°	4109.2	4107.8	4056.7	4034.0	3950.3	3951.7	3941.7	3921.9	3909.1	3910.5	3873.6
32.5°	3955.9	3911.9	3853.7	3825.3	3818.3	3792.7	3772.8	3777.1	3787.0	3751.5	3789.9
35°	3798.4	3707.5	3699.0	3674.9	3652.2	3635.1	3642.2	3613.9	3612.4	3608.2	3295.9
37.5°	3586.9	3542.9	3538.6	3513.1	3497.5	3493.2	3466.2	3470.5	3483.3	3506.0	2810.5
40°	3412.3	3372.6	3362.6	3361.2	3327.1	3324.3	3331.4	3358.4	3376.8	3234.9	2678.5
42.5°	3224.9	3227.8	3196.5	3176.7	3180.9	3193.7	3227.8	3134.1	2715.4	2587.6	2448.5
45°	3064.5	3050.3	3033.3	3027.6	3064.5	3039.0	2664.3	2458.4	2408.8	2403.1	2012.7
47.5°	2897.0	2892.8	2885.7	2889.9	2679.9	2388.9	2303.7	2276.8	2285.3	2279.6	1728.9
50°	2728.1	2733.8	2733.8	2387.5	2191.6	2143.3	2150.4	2174.6	2024.1	1889.3	1611.0
52.5°	2581.9	2537.9	2174.6	2049.6	2005.6	2026.9	1975.8	1787.1	1650.8	1571.3	1490.4
55°	2310.8	1987.2	1906.3	1886.4	1902.0	1713.2	1596.9	1474.8	1439.3	1430.8	1383.9
57.5°	1818.3	1753.0	1760.1	1680.6	1500.3	1393.9	1347.0	1330.0	1314.4	1303.0	113.6
60°	1608.2	1626.7	1489.0	1318.6	1246.3	1232.1	1220.7	1205.1	1202.3	1182.4	72.4
62.5°	1471.9	1294.5	1175.3	1132.7	1115.7	1111.4	1090.1	1083.0	919.8	126.3	53.9
65°	1110.0	1037.6	1014.9	1005.0	986.5	986.5	819.0	129.2	105.0	90.8	48.3
67.5°	905.6	899.9	888.6	875.8	596.2	124.9	109.3	95.1	82.3	72.4	42.6
70°	766.5	763.7	695.5	127.7	106.5	93.7	82.3	73.8	68.1	61.0	38.3
72.5°	628.8	127.7	107.9	93.7	80.9	73.8	66.7	59.6	53.9	49.7	31.2
75°	97.9	86.6	76.6	69.6	63.9	56.8	51.1	46.8	45.4	39.7	21.3
77.5°	71.0	61.0	55.4	49.7	44.0	39.7	34.1	29.8	27.0	22.7	15.6
80°	49.7	44.0	39.7	32.6	28.4	24.1	21.3	18.5	17.0	14.2	7.1
82.5°	28.4	24.1	21.3	17.0	15.6	12.8	11.4	9.9	9.9	7.1	7.1
85°	12.8	12.8	9.9	8.5	7.1	7.1	7.1	5.7	5.7	4.3	4.3
87.5°	5.7	5.7	5.7	5.7	5.7	4.3	4.3	4.3	4.3	4.3	2.8
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: P1213177

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5
2.5°	4877.1	4895.6	4931.1	4968.0	4926.8	5074.4	5063.1	5112.8	5139.7	5152.5	5182.3
5°	5311.5	5393.8	5420.8	5339.9	5293.0	5244.8	5135.5	5053.2	5063.1	5036.1	4938.2
7.5°	5303.0	5127.0	4889.9	4782.0	4773.5	4760.8	4794.8	4814.7	4817.5	4816.1	4813.3
10°	4854.4	4763.6	4748.0	4733.8	4739.5	4686.9	4662.8	4594.7	4631.6	4611.7	4618.8
12.5°	4718.2	4696.9	4613.1	4496.7	4566.3	4513.8	4484.0	4503.8	4481.1	4459.8	4452.7
15°	4637.3	4499.6	4452.7	4424.3	4404.5	4393.1	4403.1	4380.3	4373.2	4369.0	4378.9
17.5°	4469.8	4414.4	4363.3	4288.1	4289.5	4285.2	4313.6	4356.2	4359.1	4140.5	3943.2
20°	4337.8	4292.3	4227.0	4180.2	4244.1	4130.5	3691.9	3483.3	3450.6	3450.6	3456.3
22.5°	4232.7	4131.9	4136.2	4062.4	3464.8	3342.7	3345.6	3358.4	3300.2	3101.4	3080.2
25°	4089.4	4073.7	3762.9	3251.9	3256.2	3161.1	3014.9	2809.0	2586.2	2586.2	2549.3
27.5°	3981.5	3650.8	3196.5	3175.3	2855.9	2654.3	2529.4	2340.6	2315.1	2291.0	2293.8
30°	3889.2	3088.7	3100.0	2654.3	2418.7	2251.2	2241.3	2210.0	2194.4	2190.2	2174.6
32.5°	3074.5	3007.8	2594.7	2259.7	2167.5	2140.5	2127.7	2092.2	2090.8	2063.8	1876.5
35°	2882.9	2640.1	2171.7	2080.9	2053.9	2028.4	2007.1	1347.0	159.0	63.9	55.4
37.5°	2664.3	2205.8	2008.5	1967.3	1941.8	1435.0	143.4	49.7	35.5	25.5	22.7
40°	2258.3	1970.2	1907.7	1862.3	767.9	49.7	31.2	24.1	14.2	12.8	11.4
42.5°	1904.9	1856.6	1789.9	545.1	56.8	24.1	15.6	11.4	9.9	9.9	8.5
45°	1782.8	1740.2	721.1	53.9	35.5	11.4	9.9	9.9	8.5	5.7	5.7
47.5°	1669.2	1469.1	65.3	34.1	22.7	9.9	8.5	5.7	5.7	5.7	4.3
50°	1548.6	80.9	45.4	25.5	14.2	5.7	5.7	5.7	5.7	4.3	4.3
52.5°	289.6	56.8	36.9	22.7	7.1	5.7	5.7	5.7	4.3	4.3	4.3
55°	68.1	45.4	34.1	19.9	5.7	5.7	5.7	4.3	4.3	4.3	2.8
57.5°	51.1	34.1	27.0	18.5	5.7	4.3	4.3	4.3	4.3	4.3	2.8
60°	42.6	24.1	21.3	17.0	4.3	4.3	4.3	4.3	4.3	4.3	2.8
62.5°	29.8	19.9	15.6	12.8	4.3	4.3	4.3	4.3	4.3	4.3	4.3
65°	24.1	15.6	12.8	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
67.5°	21.3	12.8	8.5	2.8	4.3	4.3	4.3	4.3	4.3	4.3	4.3
70°	17.0	4.3	4.3	2.8	4.3	4.3	4.3	4.3	4.3	4.3	4.3
72.5°	14.2	4.3	2.8	2.8	4.3	4.3	4.3	4.3	4.3	4.3	4.3
75°	14.2	7.1	2.8	2.8	4.3	4.3	5.7	5.7	4.3	4.3	4.3
77.5°	9.9	7.1	2.8	2.8	4.3	4.3	5.7	5.7	4.3	4.3	4.3
80°	5.7	7.1	2.8	4.3	4.3	8.5	9.9	5.7	4.3	4.3	4.3
82.5°	5.7	7.1	8.5	8.5	4.3	7.1	8.5	7.1	5.7	4.3	4.3
85°	5.7	4.3	5.7	7.1	4.3	7.1	7.1	5.7	5.7	4.3	4.3
87.5°	2.8	4.3	4.3	5.7	5.7	5.7	7.1	5.7	5.7	5.7	4.3
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: P1213177

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5
2.5°	5196.5	5202.2	5112.8	5081.5	5108.5	5102.8	5078.7	4989.3	4979.3	4919.7	4833.1
5°	4966.6	5004.9	4958.1	5039.0	5000.6	5039.0	5155.4	5209.3	5297.3	5351.2	5371.1
7.5°	4806.2	4814.7	4814.7	4821.8	4828.9	4830.3	4821.8	4816.1	4792.0	4762.2	4816.1
10°	4611.7	4621.6	4638.7	4635.8	4634.4	4664.2	4671.3	4732.4	4729.5	4740.9	4782.0
12.5°	4510.9	4434.3	4503.8	4485.4	4510.9	4471.2	4545.0	4532.2	4536.5	4570.5	4658.6
15°	4343.4	4367.6	4384.6	4384.6	4394.5	4386.0	4377.5	4435.7	4471.2	4472.6	4466.9
17.5°	4021.2	3838.1	4025.5	3977.2	4361.9	4371.8	4339.2	4312.2	4312.2	4333.5	4378.9
20°	3452.0	3456.3	3457.7	3476.2	3498.9	3497.5	3498.9	4058.1	4323.6	4262.5	4221.4
22.5°	3026.2	2973.7	3071.6	3064.5	3186.6	3321.5	3450.6	3437.8	3446.4	3841.0	4195.8
25°	2425.8	2493.9	2438.6	2462.7	2600.4	2760.8	2860.1	3119.9	3402.4	3382.5	3474.8
27.5°	2283.9	2265.4	2291.0	2291.0	2309.4	2330.7	2386.1	2532.3	2783.5	3047.5	3297.3
30°	2149.0	2164.6	2167.5	2193.0	2207.2	2221.4	2229.9	2285.3	2342.1	2525.2	2833.2
32.5°	1613.9	1415.2	1862.3	1982.9	2085.1	2109.3	2126.3	2149.0	2190.2	2217.1	2371.9
35°	46.8	46.8	49.7	56.8	72.4	488.3	1859.4	2049.6	2076.6	2110.7	2139.1
37.5°	22.7	17.0	19.9	21.3	25.5	35.5	51.1	159.0	1770.0	2001.4	2032.6
40°	9.9	9.9	9.9	9.9	11.4	14.2	21.3	35.5	53.9	1423.7	1920.5
42.5°	8.5	8.5	8.5	8.5	8.5	8.5	9.9	12.8	25.5	61.0	1007.8
45°	5.7	5.7	4.3	5.7	5.7	7.1	8.5	8.5	11.4	38.3	69.6
47.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	7.1	8.5	25.5	36.9
50°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	19.9	25.5
52.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	8.5	22.7
55°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3	4.3	5.7	19.9
57.5°	2.8	2.8	2.8	2.8	2.8	4.3	2.8	2.8	4.3	4.3	18.5
60°	2.8	2.8	2.8	2.8	2.8	4.3	4.3	4.3	4.3	4.3	17.0
62.5°	4.3	4.3	2.8	4.3	2.8	2.8	4.3	4.3	4.3	4.3	11.4
65°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	2.8	4.3
67.5°	4.3	4.3	4.3	4.3	2.8	4.3	2.8	4.3	4.3	2.8	2.8
70°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	2.8	2.8	2.8	2.8
72.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	2.8	2.8	2.8	2.8
75°	4.3	4.3	4.3	4.3	4.3	4.3	5.7	5.7	2.8	2.8	2.8
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	7.1	8.5	7.1	7.1	2.8
80°	4.3	4.3	4.3	4.3	4.3	4.3	7.1	7.1	7.1	7.1	9.9
82.5°	4.3	4.3	4.3	4.3	4.3	4.3	5.7	5.7	5.7	5.7	7.1
85°	4.3	4.3	4.3	4.3	4.3	4.3	5.7	5.7	5.7	4.3	5.7
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.7	4.3	4.3	4.3
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: P1213177

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5
2.5°	4840.2	4792.0	4776.4	4743.7	4740.9	4743.7	4736.6	4726.7	4732.4	4722.4	4713.9
5°	5382.5	5253.3	5169.5	5057.4	4902.7	4868.6	4860.1	4811.8	4794.8	4789.1	4766.4
7.5°	4943.9	5179.5	5321.4	5369.7	5188.0	5145.4	5095.7	5056.0	5017.7	4945.3	4901.3
10°	4749.4	4760.8	4897.0	5056.0	5314.3	5349.8	5376.8	5290.2	5266.1	5081.5	5041.8
12.5°	4704.0	4705.4	4721.0	4817.5	5020.5	5043.2	5138.3	5189.4	5251.9	5287.4	5259.0
15°	4496.7	4611.7	4696.9	4705.4	4723.8	4763.6	4792.0	4969.4	5044.6	5246.2	5234.8
17.5°	4400.2	4437.1	4560.6	4661.4	4644.4	4630.2	4652.9	4677.0	4749.4	4951.0	4948.1
20°	4239.8	4357.6	4424.3	4529.4	4624.5	4628.7	4603.2	4589.0	4560.6	4593.3	4623.1
22.5°	4171.7	4190.1	4315.1	4388.9	4496.7	4535.1	4540.7	4542.2	4526.5	4509.5	4501.0
25°	4164.6	4106.4	4170.3	4262.5	4342.0	4383.2	4430.0	4445.6	4440.0	4440.0	4431.4
27.5°	3408.0	4087.9	4053.9	4114.9	4211.4	4239.8	4264.0	4312.2	4342.0	4363.3	4373.2
30°	3246.2	3368.3	3963.0	3971.6	4069.5	4066.7	4093.6	4133.4	4171.7	4221.4	4234.1
32.5°	2871.5	3171.0	3628.0	3828.2	3930.4	3940.3	3954.5	3965.9	4001.4	4056.7	4105.0
35°	2300.9	2888.5	3108.5	3760.1	3778.5	3798.4	3806.9	3833.9	3845.2	3867.9	3910.5
37.5°	2082.3	2387.5	2982.2	3251.9	3603.9	3621.0	3666.4	3677.7	3696.2	3714.6	3747.3
40°	1956.0	2039.7	2482.6	2904.1	3463.4	3474.8	3490.4	3518.8	3520.2	3541.5	3571.3
42.5°	1855.2	1909.1	2038.3	2773.6	3364.0	3362.6	3325.7	3344.2	3352.7	3375.4	3416.6
45°	1481.9	1791.3	1873.6	2265.4	2678.5	2871.5	3242.0	3180.9	3179.5	3188.0	3232.0
47.5°	75.2	1684.9	1743.1	1869.4	2529.4	2536.5	2584.8	2990.7	3053.2	3033.3	3037.6
50°	51.1	116.4	1623.8	1682.0	2180.2	2356.2	2391.7	2410.2	2644.4	2905.6	2863.0
52.5°	39.7	66.7	995.0	1561.4	1771.4	1900.6	2129.1	2259.7	2273.9	2379.0	2735.2
55°	35.5	51.1	107.9	1440.7	1506.0	1534.4	1667.8	1896.4	2080.9	2136.2	2140.5
57.5°	31.2	46.8	73.8	651.5	1369.7	1375.4	1398.1	1477.6	1643.7	1795.6	1967.3
60°	28.4	41.2	58.2	112.1	1244.8	1259.0	1263.3	1284.6	1304.5	1408.1	1605.4
62.5°	17.0	32.6	51.1	80.9	985.1	1131.3	1129.9	1144.1	1162.5	1173.9	1213.6
65°	14.2	25.5	44.0	68.1	120.7	150.5	914.1	1016.3	1027.7	1043.3	1050.4
67.5°	12.8	22.7	32.6	53.9	90.8	103.6	119.2	147.6	806.2	908.4	922.6
70°	11.4	15.6	27.0	45.4	73.8	79.5	89.4	102.2	120.7	149.0	729.6
72.5°	7.1	11.4	18.5	32.6	56.8	63.9	69.6	78.1	86.6	103.6	119.2
75°	2.8	8.5	15.6	24.1	44.0	48.3	52.5	58.2	65.3	76.6	85.2
77.5°	2.8	7.1	12.8	17.0	28.4	32.6	38.3	42.6	48.3	53.9	62.5
80°	9.9	5.7	8.5	12.8	19.9	21.3	24.1	27.0	31.2	35.5	41.2
82.5°	7.1	8.5	9.9	8.5	9.9	12.8	14.2	17.0	18.5	21.3	22.7
85°	5.7	5.7	7.1	7.1	7.1	7.1	7.1	7.1	8.5	9.9	12.8
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.7	5.7
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: P1213177

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5
2.5°	4713.9	4711.1	4702.6	4702.6	4701.1	4706.8	4711.1	4715.3	4713.9	4722.4	4713.9
5°	4749.4	4742.3	4729.5	4718.2	4713.9	4716.7	4712.5	4716.7	4711.1	4718.2	4705.4
7.5°	4847.3	4823.2	4773.5	4753.7	4728.1	4726.7	4713.9	4711.1	4702.6	4702.6	4686.9
10°	5020.5	4904.1	4889.9	4830.3	4809.0	4705.4	4728.1	4689.8	4685.5	4667.1	4660.0
12.5°	5162.4	5071.6	5044.6	4992.1	4932.5	4722.4	4769.3	4686.9	4682.7	4645.8	4607.5
15°	5165.3	5217.8	5144.0	4999.2	4986.4	4841.7	4746.6	4718.2	4681.3	4570.5	4589.0
17.5°	4999.2	5119.9	5155.4	5124.1	5033.3	4935.3	4801.9	4745.1	4634.4	4584.7	4550.7
20°	4729.5	4851.6	5003.5	5013.4	5070.2	5000.6	4826.0	4733.8	4600.4	4513.8	4485.4
22.5°	4515.2	4604.6	4779.2	4860.1	4929.7	4953.8	4843.1	4706.8	4540.7	4457.0	4440.0
25°	4401.6	4421.5	4474.0	4569.1	4722.4	4833.1	4848.8	4704.0	4617.4	4434.3	4337.8
27.5°	4360.5	4343.4	4322.1	4370.4	4485.4	4620.2	4709.7	4733.8	4518.0	4343.4	4246.9
30°	4255.4	4265.4	4232.7	4215.7	4290.9	4430.0	4589.0	4628.7	4462.7	4282.4	4171.7
32.5°	4126.3	4143.3	4149.0	4119.2	4103.6	4200.1	4371.8	4466.9	4458.4	4195.8	4072.3
35°	3964.5	4012.7	4025.5	4026.9	4001.4	3985.7	4085.1	4282.4	4357.6	4156.1	3977.2
37.5°	3794.1	3808.3	3877.9	3896.3	3896.3	3849.5	3923.3	4080.8	4185.9	4066.7	3860.8
40°	3581.2	3626.6	3691.9	3724.6	3757.2	3761.5	3720.3	3831.0	4004.2	3974.4	3751.5
42.5°	3426.5	3456.3	3496.0	3540.0	3606.8	3623.8	3581.2	3601.1	3781.3	3859.4	3609.6
45°	3246.2	3286.0	3297.3	3345.6	3415.1	3464.8	3463.4	3422.2	3567.0	3663.5	3506.0
47.5°	3061.7	3100.0	3119.9	3144.0	3195.1	3259.0	3294.5	3276.0	3304.4	3493.2	3368.3
50°	2871.5	2892.8	2932.5	2959.5	2993.6	3030.5	3115.6	3132.7	3092.9	3243.4	3216.4
52.5°	2691.2	2698.3	2725.3	2752.3	2797.7	2824.7	2892.8	2943.9	2941.0	2985.1	3047.5
55°	2550.7	2519.5	2525.2	2546.4	2576.3	2617.4	2655.7	2735.2	2762.2	2770.7	2870.1
57.5°	1992.9	2313.7	2342.1	2340.6	2376.1	2394.6	2430.1	2482.6	2579.1	2557.8	2668.5
60°	1811.2	1846.7	2114.9	2146.2	2158.9	2176.0	2218.6	2266.8	2337.8	2383.2	2431.5
62.5°	1381.1	1596.9	1677.8	1914.8	1951.7	1961.6	1990.0	2012.7	2086.6	2190.2	2170.3
65°	1068.8	1161.1	1408.1	1504.6	1706.1	1731.7	1771.4	1795.6	1816.9	1936.1	1941.8
67.5°	924.0	938.2	1005.0	1190.9	1318.6	1515.9	1540.1	1561.4	1594.0	1679.2	1731.7
70°	789.2	806.2	824.7	840.3	1006.4	1137.0	1320.1	1327.2	1348.5	1405.2	1524.5
72.5°	149.0	674.2	685.6	695.5	714.0	800.6	975.1	1117.1	1125.6	1152.6	1261.9
75°	100.8	117.8	161.8	556.4	574.9	580.5	610.4	787.8	918.4	924.0	972.3
77.5°	72.4	80.9	97.9	116.4	296.7	445.7	452.8	485.4	620.3	718.2	726.7
80°	49.7	55.4	65.3	73.8	90.8	119.2	329.3	339.2	356.3	491.1	516.7
82.5°	28.4	32.6	38.3	46.8	53.9	68.1	88.0	113.6	231.4	247.0	327.9
85°	14.2	15.6	18.5	22.7	27.0	32.6	44.0	53.9	73.8	133.4	137.7
87.5°	7.1	7.1	7.1	7.1	11.4	12.8	15.6	19.9	25.5	38.3	49.7
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: P1213177

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5
2.5°	4715.3	4735.2	4752.2	4756.5	4756.5	4759.3	4763.6	4766.4	4769.3	4772.1	4769.3
5°	4706.8	4728.1	4742.3	4746.6	4746.6	4755.1	4762.2	4770.7	4774.9	4774.9	4772.1
7.5°	4685.5	4701.1	4719.6	4730.9	4732.4	4746.6	4759.3	4757.9	4763.6	4766.4	4773.5
10°	4657.1	4657.1	4688.4	4696.9	4704.0	4719.6	4723.8	4732.4	4752.2	4755.1	4773.5
12.5°	4642.9	4628.7	4665.6	4669.9	4694.0	4674.2	4699.7	4708.2	4688.4	4715.3	4679.8
15°	4579.1	4596.1	4590.4	4603.2	4645.8	4623.1	4692.6	4669.9	4721.0	4660.0	4767.8
17.5°	4526.5	4523.7	4546.4	4557.8	4566.3	4614.5	4633.0	4658.6	4678.4	4661.4	4704.0
20°	4488.2	4465.5	4482.5	4495.3	4525.1	4562.0	4573.4	4535.1	4601.8	4715.3	4742.3
22.5°	4415.8	4400.2	4420.1	4420.1	4465.5	4459.8	4502.4	4478.3	4540.7	4672.7	4810.4
25°	4317.9	4319.3	4340.6	4366.2	4374.7	4438.5	4461.3	4492.5	4570.5	4728.1	4811.8
27.5°	4218.5	4210.0	4222.8	4275.3	4319.3	4366.2	4373.2	4479.7	4586.2	4694.0	4767.8
30°	4119.2	4110.7	4119.2	4157.5	4210.0	4241.2	4319.3	4461.3	4560.6	4634.4	4704.0
32.5°	4012.7	4004.2	4024.1	4052.5	4144.7	4149.0	4303.7	4437.1	4515.2	4569.1	4556.4
35°	3899.2	3887.8	3906.3	3950.3	4035.4	4066.7	4228.5	4327.8	4415.8	4441.4	4381.8
37.5°	3762.9	3743.0	3765.7	3826.8	3916.2	4007.0	4141.9	4256.9	4303.7	4235.6	4164.6
40°	3621.0	3606.8	3646.5	3677.7	3782.8	3909.1	4063.8	4144.7	4114.9	4036.8	3958.8
42.5°	3494.6	3464.8	3500.3	3559.9	3679.1	3822.5	3947.4	3992.8	3921.9	3806.9	3716.1
45°	3339.9	3304.4	3347.0	3426.5	3554.2	3717.5	3815.4	3799.8	3679.1	3579.8	3454.9
47.5°	3178.1	3135.5	3178.1	3273.2	3416.6	3589.7	3660.7	3589.7	3437.8	3312.9	3212.2
50°	3019.1	2969.4	3010.6	3154.0	3294.5	3427.9	3426.5	3288.8	3198.0	3061.7	2973.7
52.5°	2861.6	2790.6	2831.8	2987.9	3128.4	3280.3	3168.2	3040.4	2931.1	2811.9	2783.5
55°	2667.1	2590.5	2645.8	2872.9	2980.8	3070.2	2891.4	2779.2	2671.4	2611.7	2576.3
57.5°	2482.6	2398.8	2447.1	2715.4	2794.8	2817.6	2652.9	2493.9	2430.1	2410.2	2359.1
60°	2292.4	2197.3	2242.7	2552.1	2607.5	2515.2	2353.4	2229.9	2217.1	2177.4	2137.7
62.5°	2110.7	2005.6	2034.0	2349.1	2374.7	2207.2	2058.2	2025.5	1994.3	1954.5	1933.3
65°	1902.0	1792.7	1832.5	2133.4	2109.3	1893.5	1809.8	1802.7	1761.5	1728.9	1760.1
67.5°	1710.4	1581.2	1636.6	1897.8	1788.5	1612.5	1578.4	1561.4	1528.7	1547.2	1219.3
70°	1500.3	1359.8	1435.0	1643.7	1481.9	1365.5	1352.7	1327.2	1328.6	1056.1	890.0
72.5°	1266.1	1144.1	1253.4	1365.5	1172.4	1138.4	1119.9	1117.1	901.3	732.4	691.3
75°	1060.3	936.8	1054.6	1097.2	934.0	911.3	909.9	752.3	591.9	564.9	552.2
77.5°	827.5	732.4	844.6	780.7	716.8	691.3	620.3	465.6	445.7	427.2	160.4
80°	557.8	564.9	630.2	538.0	511.0	435.8	343.5	329.3	283.9	113.6	89.4
82.5°	339.2	425.8	401.7	336.4	329.3	237.0	217.2	110.7	82.3	65.3	56.8
85°	176.0	215.8	207.2	183.1	136.3	122.1	68.1	52.5	42.6	32.6	27.0
87.5°	59.6	79.5	76.6	61.0	46.8	36.9	24.1	19.9	14.2	11.4	9.9
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: P1213177

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5
2.5°	4766.4	4766.4	4763.6	4766.4	4767.8	4765.0	4765.0	4767.8	4769.3	4770.7	4777.8
5°	4773.5	4776.4	4780.6	4789.1	4790.6	4807.6	4814.7	4818.9	4823.2	4824.6	4814.7
7.5°	4789.1	4799.1	4807.6	4806.2	4796.2	4769.3	4760.8	4753.7	4766.4	4799.1	4837.4
10°	4803.3	4757.9	4672.7	4789.1	4753.7	4786.3	4882.8	4904.1	4969.4	5061.7	5088.6
12.5°	4705.4	4830.3	4857.3	4726.7	4968.0	4878.6	4985.0	5078.7	5105.7	5199.4	5142.6
15°	4810.4	4871.5	4912.6	5043.2	5029.0	5105.7	5135.5	5117.0	5121.3	5145.4	5209.3
17.5°	4809.0	4931.1	4958.1	5046.1	5105.7	5107.1	5098.6	5090.1	5112.8	5131.2	5092.9
20°	4891.3	4931.1	4983.6	5019.1	5030.4	5044.6	5071.6	5050.3	5007.7	4966.6	4949.5
22.5°	4850.2	4939.6	4985.0	4990.7	4983.6	4939.6	4899.9	4840.2	4820.4	4799.1	4806.2
25°	4858.7	4899.9	4894.2	4871.5	4841.7	4759.3	4739.5	4713.9	4675.6	4583.3	4499.6
27.5°	4797.7	4776.4	4750.8	4695.5	4641.5	4597.5	4547.8	4465.5	4397.4	4298.0	4261.1
30°	4695.5	4610.3	4547.8	4515.2	4462.7	4388.9	4313.6	4212.9	4126.3	4106.4	4087.9
32.5°	4499.6	4415.8	4364.7	4285.2	4195.8	4107.8	4021.2	3981.5	3963.0	3965.9	3948.8
35°	4299.4	4225.6	4149.0	4029.7	3963.0	3875.0	3843.8	3835.3	3818.3	3799.8	3779.9
37.5°	4086.5	3999.9	3885.0	3814.0	3747.3	3711.8	3696.2	3683.4	3653.6	3621.0	3598.2
40°	3880.7	3724.6	3660.7	3591.1	3571.3	3555.7	3532.9	3501.7	3460.6	3454.9	3444.9
42.5°	3605.3	3493.2	3437.8	3423.7	3399.5	3372.6	3352.7	3318.6	3301.6	3312.9	3321.5
45°	3344.2	3287.4	3268.9	3251.9	3206.5	3168.2	3155.4	3144.0	3158.2	3220.7	3071.6
47.5°	3132.7	3110.0	3087.2	3058.9	3016.3	2987.9	3000.7	3012.0	3024.8	2566.3	2342.1
50°	2949.6	2918.3	2882.9	2851.6	2826.1	2823.2	2889.9	2689.8	2252.6	2241.3	2014.2
52.5°	2749.4	2702.6	2681.3	2662.8	2674.2	2716.8	2248.4	2086.6	2001.4	1738.8	1622.4
55°	2533.7	2492.5	2492.5	2509.5	2448.5	1984.4	1960.2	1694.8	1534.4	1489.0	1470.5
57.5°	2317.9	2313.7	2337.8	2137.7	1801.2	1727.4	1452.1	1393.9	1368.3	1362.6	1332.8
60°	2120.6	2160.4	1808.3	1663.6	1446.4	1304.5	1264.7	1257.6	1230.6	1220.7	1193.7
62.5°	1963.1	1628.1	1515.9	1237.7	1165.3	1146.9	1125.6	1115.7	1091.5	963.8	282.5
65°	1418.0	1339.9	1087.3	1040.4	1034.8	1007.8	999.3	898.5	211.5	141.9	120.7
67.5°	1070.2	949.6	916.9	908.4	881.5	827.5	245.6	140.5	120.7	105.0	92.3
70°	821.8	800.6	776.4	756.6	222.8	139.1	120.7	102.2	88.0	78.1	71.0
72.5°	672.8	658.6	383.2	146.2	119.2	100.8	89.4	78.1	68.1	62.5	56.8
75°	526.6	146.2	120.7	100.8	86.6	73.8	65.3	58.2	52.5	48.3	44.0
77.5°	119.2	96.5	82.3	69.6	62.5	55.4	49.7	42.6	38.3	34.1	28.4
80°	73.8	63.9	53.9	49.7	42.6	35.5	31.2	28.4	22.7	21.3	18.5
82.5°	48.3	38.3	34.1	28.4	22.7	21.3	18.5	14.2	12.8	11.4	9.9
85°	21.3	18.5	15.6	12.8	9.9	8.5	7.1	5.7	5.7	5.7	5.7
87.5°	7.1	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	2.8	2.8
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: P1213177

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5
2.5°	4780.6	4806.2	4830.3	4823.2	4797.7	4757.9	4746.6	4730.9	4742.3	4766.4	4776.4
5°	4814.7	4800.5	4851.6	4926.8	5048.9	5060.2	5145.4	5165.3	5233.4	5276.0	5274.6
7.5°	4862.9	5064.5	5148.3	5239.1	5280.3	5270.3	5283.1	5273.2	5257.5	5250.5	5241.9
10°	5108.5	5261.8	5293.0	5293.0	5229.2	5142.6	5105.7	5041.8	4914.0	4916.9	4895.6
12.5°	5251.9	5305.8	5232.0	5169.5	4912.6	4813.3	4705.4	4654.3	4624.5	4579.1	4596.1
15°	5176.6	5100.0	5056.0	4854.4	4696.9	4518.0	4520.9	4489.6	4457.0	4459.8	4438.5
17.5°	5065.9	5004.9	4692.6	4553.5	4476.9	4407.3	4394.5	4353.4	4332.1	4325.0	4323.6
20°	4914.0	4694.0	4461.3	4427.2	4334.9	4255.4	4242.7	4255.4	4320.7	4204.3	3809.7
22.5°	4736.6	4420.1	4352.0	4255.4	4193.0	4161.8	4239.8	3885.0	3348.4	3413.7	3344.2
25°	4435.7	4298.0	4181.6	4107.8	4100.7	3909.1	3257.6	3189.4	2844.5	2660.0	2452.8
27.5°	4215.7	4156.1	4034.0	4021.2	3929.0	3196.5	2857.3	2482.6	2344.9	2323.6	2278.2
30°	4082.3	3997.1	3923.3	3601.1	3135.5	2573.4	2292.4	2239.9	2215.7	2190.2	2150.4
32.5°	3921.9	3841.0	3876.4	3027.6	2499.6	2215.7	2158.9	2120.6	2076.6	2059.6	1916.2
35°	3758.6	3721.7	3029.1	2545.0	2149.0	2080.9	2038.3	1998.5	1589.8	384.7	130.6
37.5°	3584.0	3575.5	2722.5	2112.1	2012.7	1948.9	1828.2	377.6	89.4	61.0	45.4
40°	3447.8	2723.9	2151.8	1980.1	1899.2	1798.4	252.7	62.5	39.7	24.1	15.6
42.5°	3356.9	2449.9	1926.2	1858.0	1682.0	185.9	63.9	27.0	15.6	12.8	9.9
45°	2587.6	1934.7	1799.8	1728.9	212.9	63.9	36.9	12.8	9.9	8.5	5.7
47.5°	2387.5	1757.2	1677.8	377.6	71.0	34.1	25.5	8.5	5.7	5.7	5.7
50°	1808.3	1623.8	1335.7	92.3	45.4	24.1	18.5	5.7	5.7	5.7	4.3
52.5°	1585.5	1498.9	143.4	61.0	35.5	18.5	11.4	4.3	4.3	4.3	4.3
55°	1449.2	951.0	85.2	46.8	29.8	17.0	7.1	4.3	4.3	4.3	2.8
57.5°	1325.7	127.7	62.5	39.7	27.0	15.6	4.3	4.3	4.3	4.3	2.8
60°	1124.2	92.3	51.1	35.5	25.5	14.2	4.3	4.3	4.3	4.3	4.3
62.5°	146.2	72.4	44.0	31.2	18.5	11.4	2.8	4.3	4.3	4.3	4.3
65°	106.5	56.8	39.7	21.3	11.4	4.3	2.8	4.3	4.3	4.3	4.3
67.5°	82.3	46.8	29.8	18.5	9.9	2.8	2.8	4.3	4.3	4.3	4.3
70°	65.3	39.7	24.1	15.6	8.5	2.8	2.8	4.3	4.3	4.3	4.3
72.5°	51.1	28.4	17.0	8.5	5.7	2.8	2.8	4.3	4.3	4.3	4.3
75°	38.3	22.7	12.8	7.1	2.8	2.8	2.8	4.3	4.3	4.3	4.3
77.5°	25.5	14.2	9.9	5.7	5.7	5.7	7.1	7.1	4.3	4.3	4.3
80°	17.0	9.9	7.1	7.1	7.1	5.7	7.1	7.1	4.3	7.1	4.3
82.5°	8.5	7.1	7.1	5.7	5.7	4.3	5.7	5.7	5.7	5.7	4.3
85°	5.7	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.7	5.7	4.3
87.5°	2.8	2.8	2.8	2.8	4.3	4.3	4.3	4.3	5.7	5.7	4.3
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: P1213177

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5
2.5°	4763.6	4767.8	4756.5	4817.5	4786.3	4789.1	4801.9	4769.3	4776.4	4753.7	4738.0
5°	5280.3	5288.8	5297.3	5300.1	5305.8	5312.9	5304.4	5300.1	5291.6	5263.2	5233.4
7.5°	5199.4	5189.4	5185.2	5190.8	5200.8	5205.0	5197.9	5207.9	5244.8	5260.4	5270.3
10°	4773.5	4728.1	4759.3	4755.1	4719.6	4838.8	4806.2	4824.6	4837.4	4968.0	5047.5
12.5°	4570.5	4598.9	4545.0	4518.0	4553.5	4577.6	4601.8	4550.7	4621.6	4589.0	4694.0
15°	4400.2	4383.2	4377.5	4378.9	4371.8	4405.9	4414.4	4425.8	4435.7	4479.7	4496.7
17.5°	4323.6	4352.0	4363.3	4371.8	4357.6	4342.0	4326.4	4303.7	4310.8	4299.4	4332.1
20°	3544.3	3449.2	3443.5	3498.9	3437.8	3471.9	3554.2	4105.0	4086.5	4300.9	4228.5
22.5°	2958.1	2868.7	2792.0	2725.3	2820.4	2860.1	3013.4	3186.6	3467.7	3423.7	3728.8
25°	2415.9	2383.2	2363.3	2353.4	2360.5	2357.7	2391.7	2472.6	2600.4	2901.3	3290.2
27.5°	2259.7	2244.1	2237.0	2214.3	2231.3	2225.7	2252.6	2269.7	2308.0	2337.8	2464.1
30°	2136.2	2117.8	2105.0	2080.9	2097.9	2099.3	2107.8	2151.8	2167.5	2193.0	2232.8
32.5°	780.7	459.9	431.5	410.2	448.5	584.8	1026.2	1794.2	2046.8	2066.7	2112.1
35°	76.6	63.9	56.8	56.8	58.2	63.9	85.2	224.3	410.2	1585.5	1984.4
37.5°	29.8	25.5	21.3	19.9	21.3	24.1	32.6	42.6	58.2	120.7	538.0
40°	12.8	11.4	9.9	9.9	9.9	9.9	11.4	14.2	21.3	39.7	62.5
42.5°	8.5	7.1	7.1	7.1	7.1	7.1	7.1	7.1	9.9	12.8	25.5
45°	5.7	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.7	7.1	11.4
47.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.7
50°	4.3	4.3	4.3	4.3	2.8	4.3	2.8	4.3	4.3	4.3	4.3
52.5°	4.3	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3	4.3
55°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3
57.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
60°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
62.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3	4.3	2.8
65°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3	2.8
67.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
70°	4.3	4.3	2.8	4.3	2.8	2.8	4.3	4.3	4.3	2.8	2.8
72.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	8.5	8.5	5.7
75°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	7.1	8.5	7.1
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	7.1	7.1	7.1
80°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.7	5.7	5.7
82.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.7	5.7	5.7
85°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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: P1213177

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5
2.5°	4711.1	4709.7	4739.5	4762.2	4753.7	4762.2	4772.1	4773.5	4776.4	4765.0	4760.8
5°	5176.6	5132.6	5047.5	4986.4	4915.5	4786.3	4722.4	4729.5	4730.9	4726.7	4732.4
7.5°	5266.1	5261.8	5232.0	5219.2	5171.0	5078.7	4931.1	4905.5	4843.1	4803.3	4770.7
10°	5041.8	5144.0	5171.0	5216.4	5244.8	5227.7	5102.8	5084.4	5044.6	4999.2	5009.1
12.5°	4799.1	4882.8	4887.1	5134.1	5189.4	5195.1	5146.8	5172.4	5178.1	5075.9	5016.2
15°	4501.0	4540.7	4624.5	4854.4	5021.9	5127.0	5158.2	5172.4	5102.8	5098.6	5074.4
17.5°	4370.4	4396.0	4434.3	4563.5	4817.5	4972.2	5104.3	5094.3	5121.3	5101.4	5040.4
20°	4205.8	4227.0	4295.2	4360.5	4485.4	4691.2	4938.2	4956.6	4992.1	4987.9	5004.9
22.5°	4202.9	4127.7	4139.0	4190.1	4320.7	4505.3	4767.8	4828.9	4851.6	4867.2	4885.7
25°	3334.2	3931.8	4041.1	4073.7	4158.9	4266.8	4576.2	4598.9	4641.5	4711.1	4762.2
27.5°	2888.5	3294.5	3731.7	3958.8	4012.7	4102.1	4286.7	4320.7	4465.5	4482.5	4562.0
30°	2279.6	2593.3	3246.2	3792.7	3882.1	3944.6	4075.2	4143.3	4205.8	4273.9	4357.6
32.5°	2144.8	2194.4	2556.4	3138.3	3833.9	3787.0	3883.5	3924.7	3992.8	4052.5	4113.5
35°	2021.3	2055.3	2132.0	2570.6	3122.7	3657.9	3723.2	3750.1	3788.4	3833.9	3877.9
37.5°	1892.1	1943.2	1995.7	2113.5	2888.5	3555.7	3554.2	3585.5	3608.2	3646.5	3683.4
40°	343.5	1784.2	1869.4	1946.0	2239.9	2836.0	3395.3	3409.5	3425.1	3449.2	3487.5
42.5°	55.4	298.1	1751.6	1825.4	1909.1	2539.4	3322.9	3264.7	3254.7	3271.8	3305.8
45°	28.4	72.4	352.0	1704.7	1780.0	2025.5	2716.8	3163.9	3154.0	3121.3	3128.4
47.5°	21.3	45.4	86.6	589.1	1666.4	1738.8	2506.7	2479.7	2668.5	3030.5	2975.1
50°	18.5	31.2	51.1	120.7	1471.9	1601.1	1930.4	2255.5	2354.8	2367.6	2801.9
52.5°	17.0	21.3	36.9	78.1	309.4	1480.5	1569.9	1683.4	1850.9	2210.0	2201.5
55°	15.6	19.9	31.2	52.5	107.9	1334.3	1426.5	1447.8	1483.3	1655.0	1882.2
57.5°	8.5	18.5	29.8	45.4	80.9	244.1	1294.5	1311.5	1339.9	1347.0	1427.9
60°	4.3	17.0	27.0	39.7	59.6	113.6	1163.9	1183.8	1200.8	1203.7	1229.2
62.5°	2.8	15.6	22.7	36.9	49.7	80.9	275.4	562.1	1068.8	1068.8	1098.6
65°	2.8	11.4	14.2	24.1	45.4	66.7	116.4	134.8	262.6	645.8	963.8
67.5°	2.8	4.3	12.8	19.9	34.1	51.1	85.2	99.4	119.2	136.3	252.7
70°	2.8	2.8	11.4	12.8	21.3	38.3	61.0	69.6	80.9	92.3	106.5
72.5°	2.8	2.8	9.9	9.9	14.2	25.5	46.8	51.1	58.2	65.3	75.2
75°	7.1	5.7	8.5	8.5	9.9	19.9	35.5	39.7	42.6	48.3	55.4
77.5°	7.1	7.1	7.1	7.1	7.1	12.8	22.7	25.5	29.8	32.6	38.3
80°	5.7	5.7	5.7	7.1	7.1	8.5	14.2	15.6	17.0	21.3	22.7
82.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	8.5	9.9	12.8
85°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.7	5.7	5.7	5.7
87.5°	4.3	4.3	4.3	2.8	2.8	4.3	4.3	4.3	4.3	4.3	4.3
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: P1213177

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5	4729.5
2.5°	4759.3	4750.8	4743.7	4748.0	4735.2	4729.5	4733.8	4735.2	4738.0	4745.1	4746.6
5°	4746.6	4743.7	4756.5	4763.6	4760.8	4763.6	4763.6	4757.9	4749.4	4755.1	4742.3
7.5°	4738.0	4719.6	4705.4	4708.2	4694.0	4711.1	4726.7	4749.4	4756.5	4756.5	4742.3
10°	4884.2	4864.4	4784.9	4730.9	4695.5	4664.2	4738.0	4662.8	4698.3	4563.5	4718.2
12.5°	5004.9	5031.9	4996.4	4848.8	4823.2	4729.5	4783.5	4691.2	4664.2	4509.5	4559.2
15°	5053.2	5002.1	4990.7	4949.5	4894.2	4867.2	4722.4	4706.8	4662.8	4679.8	4614.5
17.5°	5010.6	5036.1	5002.1	4975.1	4918.3	4854.4	4767.8	4691.2	4630.2	4493.9	4608.9
20°	4969.4	5003.5	4901.3	4918.3	4924.0	4850.2	4804.8	4740.9	4664.2	4536.5	4437.1
22.5°	4901.3	4877.1	4885.7	4860.1	4838.8	4848.8	4786.3	4742.3	4613.1	4554.9	4420.1
25°	4790.6	4782.0	4804.8	4801.9	4750.8	4733.8	4702.6	4655.7	4604.6	4510.9	4400.2
27.5°	4610.3	4654.3	4694.0	4712.5	4685.5	4640.1	4623.1	4596.1	4560.6	4465.5	4383.2
30°	4420.1	4469.8	4515.2	4554.9	4579.1	4559.2	4543.6	4528.0	4474.0	4411.6	4319.3
32.5°	4202.9	4268.2	4330.7	4378.9	4431.4	4447.1	4435.7	4422.9	4377.5	4320.7	4246.9
35°	3951.7	4041.1	4131.9	4218.5	4241.2	4278.1	4315.1	4293.8	4269.6	4212.9	4144.7
37.5°	3738.8	3802.6	3867.9	3977.2	4056.7	4103.6	4168.9	4177.4	4136.2	4109.2	4019.8
40°	3518.8	3577.0	3672.1	3735.9	3845.2	3899.2	3968.7	3999.9	3990.0	3974.4	3896.3
42.5°	3345.6	3374.0	3436.4	3493.2	3601.1	3711.8	3772.8	3806.9	3842.4	3829.6	3789.9
45°	3161.1	3186.6	3207.9	3257.6	3362.6	3460.6	3535.8	3586.9	3650.8	3680.6	3632.3
47.5°	2978.0	2985.1	3010.6	3051.8	3114.2	3189.4	3315.8	3392.4	3452.0	3510.2	3479.0
50°	2837.4	2811.9	2816.1	2841.7	2892.8	2966.6	3057.4	3165.3	3233.4	3304.4	3311.5
52.5°	2479.7	2687.0	2637.3	2651.5	2678.5	2713.9	2809.0	2915.5	2999.2	3060.3	3121.3
55°	2080.9	2122.0	2520.9	2464.1	2481.2	2512.4	2556.4	2662.8	2743.7	2828.9	2914.1
57.5°	1613.9	1920.5	1936.1	2305.1	2296.6	2299.5	2336.4	2397.4	2478.3	2584.8	2657.2
60°	1254.8	1383.9	1635.2	1762.9	2086.6	2097.9	2119.2	2154.7	2224.2	2325.0	2440.0
62.5°	1107.2	1124.2	1213.6	1405.2	1615.3	1869.4	1914.8	1920.5	1951.7	2052.5	2185.9
65°	972.3	983.7	1010.6	1030.5	1206.5	1452.1	1670.7	1706.1	1726.0	1785.6	1899.2
67.5°	670.0	847.4	871.5	885.7	902.8	1016.3	1287.4	1467.7	1490.4	1542.9	1642.3
70°	129.2	268.3	733.8	749.5	758.0	783.5	827.5	1114.2	1264.7	1314.4	1359.8
72.5°	88.0	103.6	124.9	295.2	624.5	638.7	648.7	685.6	939.7	1084.4	1108.6
75°	63.9	71.0	83.7	103.6	127.7	415.9	515.3	533.7	552.2	762.2	884.3
77.5°	45.4	51.1	56.8	66.7	78.1	100.8	144.8	398.9	417.3	427.2	603.3
80°	25.5	31.2	38.3	44.0	49.7	56.8	73.8	92.3	205.8	300.9	316.5
82.5°	14.2	17.0	19.9	24.1	27.0	34.1	41.2	49.7	65.3	96.5	204.4
85°	7.1	7.1	7.1	9.9	11.4	15.6	18.5	21.3	29.8	41.2	56.8
87.5°	4.3	4.3	5.7	5.7	5.7	7.1	7.1	7.1	8.5	12.8	18.5
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: P1213177

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	4729.5	4729.5	4729.5	4729.5	4729.5
2.5°	4748.0	4743.7	4743.7	4760.8	4756.5
5°	4739.5	4735.2	4733.8	4752.2	4743.7
7.5°	4732.4	4716.7	4712.5	4729.5	4722.4
10°	4704.0	4692.6	4699.7	4694.0	4691.2
12.5°	4655.7	4648.6	4618.8	4621.6	4645.8
15°	4569.1	4597.5	4546.4	4591.8	4601.8
17.5°	4410.2	4474.0	4523.7	4550.7	4554.9
20°	4481.1	4502.4	4476.9	4478.3	4495.3
22.5°	4388.9	4398.8	4405.9	4397.4	4434.3
25°	4241.2	4202.9	4285.2	4302.3	4361.9
27.5°	4195.8	4164.6	4202.9	4200.1	4249.8
30°	4158.9	4058.1	4075.2	4102.1	4163.2
32.5°	4106.4	3947.4	3930.4	3990.0	4058.1
35°	4014.1	3863.7	3823.9	3862.3	3964.5
37.5°	3936.1	3747.3	3667.8	3718.9	3852.3
40°	3819.7	3656.4	3532.9	3578.4	3735.9
42.5°	3680.6	3578.4	3388.2	3419.4	3599.7
45°	3540.0	3449.2	3247.6	3263.3	3477.6
47.5°	3396.7	3312.9	3101.4	3104.3	3321.5
50°	3256.2	3145.4	2970.9	2921.2	3155.4
52.5°	3073.1	2970.9	2838.8	2757.9	2997.8
55°	2899.9	2784.9	2688.4	2563.5	2819.0
57.5°	2731.0	2603.2	2537.9	2377.5	2616.0
60°	2499.6	2438.6	2342.1	2188.8	2432.9
62.5°	2262.6	2242.7	2144.8	1985.8	2207.2
65°	1985.8	2032.6	1931.8	1795.6	1973.0
67.5°	1724.6	1808.3	1697.6	1613.9	1747.3
70°	1446.4	1542.9	1480.5	1450.7	1507.4
72.5°	1172.4	1266.1	1271.8	1250.5	1269.0
75°	905.6	1009.2	1066.0	1033.3	1037.6
77.5°	687.0	736.7	799.1	824.7	819.0
80°	424.4	511.0	562.1	614.6	596.2
82.5°	214.3	286.7	349.2	406.0	379.0
85°	89.4	115.0	160.4	211.5	203.0
87.5°	27.0	45.4	48.3	68.1	63.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)