

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: P1214230

Luminaire Tested: 4SNLED-LD5-76SL-RM-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214230
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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

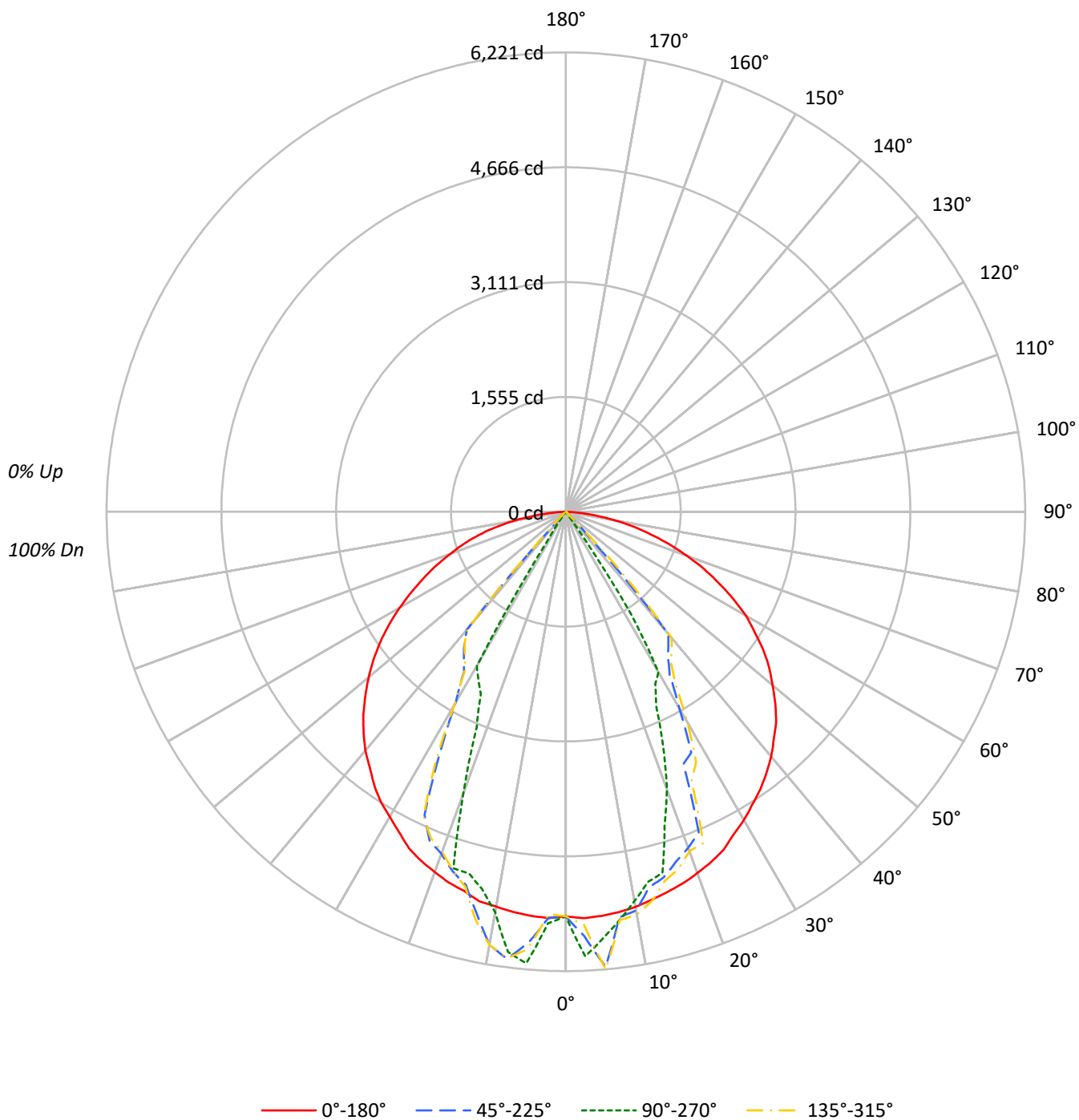
Lumens per Lamp: N/A
Luminaire Lumens: 7789.0 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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

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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°	44266	44266	44266	44266
5°	44447	45527	44434	48213
10°	44340	41197	44313	42386
15°	44219	38453	44111	38553
20°	44270	30287	44145	30661
25°	44399	21918	44183	20684
30°	44196	19227	43729	18483
35°	44328	424	43677	514
40°	44479	92	43414	92
45°	44636	55	42960	41
50°	44295	43	42263	43
55°	44035	30	41329	30
60°	43203	32	39825	32
65°	40952	52	38034	35
70°	37989	57	36166	57
75°	33604	64	34155	64
80°	27296	73	28854	73
85°	16061	86	16396	86

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 48197 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.6	7.1
10°-20°	1499.0	19.2
20°-30°	1907.5	24.5
30°-40°	1611.3	20.7
40°-50°	1053.4	13.5
50°-60°	663.8	8.5
60°-70°	353.3	4.5
70°-80°	128.8	1.7
80°-90°	22.2	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°	3956.1	50.8
0°-40°	5567.5	71.5
0°-60°	7284.7	93.5
0°-90°	7789.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7789.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5478	5478	5478	5478	5478	
5°	5494	5797	5493	6139	5494	522
15°	5330	5059	5317	5072	5330	1507
25°	5052	2888	5027	2726	5052	2323
35°	4592	54	4524	66	4592	2872
45°	4028	7	3877	5	4028	3098
55°	3265	3	3064	3	3265	2909
65°	2285	5	2122	3	2285	2263
75°	1202	5	1222	5	1202	1276
85°	235	5	240	5	235	297
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°	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8
2.5°	5509.0	5512.3	5514.0	5517.3	5522.2	5523.8	5527.1	5523.8	5523.8	5523.8	5523.8
5°	5494.2	5500.8	5505.8	5512.3	5523.8	5525.5	5538.6	5540.3	5546.9	5560.0	5569.9
7.5°	5469.6	5476.2	5486.0	5502.5	5518.9	5537.0	5560.0	5584.7	5619.2	5652.1	5693.2
10°	5433.4	5441.6	5453.1	5467.9	5548.5	5560.0	5611.0	5681.7	5701.4	5805.0	5882.2
12.5°	5380.8	5408.8	5438.4	5451.5	5528.8	5650.4	5821.4	5786.9	5749.1	6087.7	6082.8
15°	5329.8	5367.7	5352.9	5459.7	5530.4	5742.5	5670.2	5824.7	6107.5	6038.4	6041.7
17.5°	5275.6	5283.8	5366.0	5454.8	5581.4	5689.9	5778.7	5990.7	6046.6	6051.6	5990.7
20°	5206.5	5246.0	5366.0	5446.6	5660.3	5711.3	5903.6	6012.1	5989.1	5933.2	5829.6
22.5°	5135.9	5255.9	5377.5	5491.0	5640.6	5777.0	5872.4	5923.3	5803.3	5583.0	5464.7
25°	5052.0	5122.7	5282.2	5448.2	5635.6	5714.5	5770.4	5688.2	5532.1	5334.8	5135.9
27.5°	4922.1	5035.6	5239.4	5426.8	5596.2	5691.5	5601.1	5403.8	5152.3	5022.4	4932.0
30°	4821.9	4969.8	5137.5	5318.3	5494.2	5550.1	5320.0	5094.8	4922.1	4792.3	4772.5
32.5°	4700.2	4910.6	5070.1	5242.7	5390.7	5316.7	5093.1	4802.1	4659.1	4609.8	4629.5
35°	4591.7	4751.2	4959.9	5129.3	5236.1	5070.1	4716.6	4535.8	4466.7	4494.7	4458.5
37.5°	4461.8	4672.2	4864.6	5010.9	4974.7	4724.9	4425.6	4310.6	4318.8	4295.8	4226.7
40°	4327.0	4527.6	4728.1	4866.2	4739.7	4358.2	4159.3	4134.7	4139.6	4065.6	3967.0
42.5°	4169.2	4351.7	4552.2	4677.2	4404.3	4106.7	3971.9	3975.2	3932.4	3828.9	3776.3
45°	4027.8	4195.5	4404.3	4415.8	4080.4	3832.2	3792.7	3750.0	3654.6	3620.1	3580.6
47.5°	3847.0	4032.7	4205.4	4142.9	3763.1	3608.6	3579.0	3485.3	3437.6	3411.3	3378.4
50°	3654.6	3842.0	3999.9	3822.3	3463.9	3427.7	3330.7	3256.8	3223.9	3195.9	3166.3
52.5°	3472.1	3626.7	3787.8	3482.0	3233.7	3199.2	3089.1	3046.3	3013.5	2982.2	2975.6
55°	3265.0	3401.4	3511.6	3158.1	3013.5	2932.9	2854.0	2824.4	2793.2	2778.4	2803.0
57.5°	3029.9	3184.4	3168.0	2839.2	2775.1	2658.3	2628.8	2609.0	2586.0	2595.9	2390.4
60°	2817.8	2936.2	2855.6	2605.7	2497.2	2418.3	2392.0	2378.9	2392.0	2191.5	1926.8
62.5°	2556.4	2689.6	2526.8	2332.8	2217.8	2179.9	2156.9	2175.0	1982.7	1762.4	1698.3
65°	2285.2	2429.8	2189.8	2040.2	1967.9	1935.0	1933.3	1780.5	1591.4	1505.9	1505.9
67.5°	2023.8	2173.4	1864.3	1739.4	1711.4	1714.7	1619.3	1387.5	1334.9	1277.4	1111.3
70°	1745.9	1877.4	1540.4	1464.8	1448.4	1436.9	1205.1	1142.6	1080.1	927.2	914.1
72.5°	1469.7	1533.9	1237.9	1219.8	1216.6	1011.1	965.0	858.2	785.8	767.7	759.5
75°	1201.8	1182.0	978.2	994.6	838.4	766.1	692.1	629.7	619.8	613.2	152.9
77.5°	948.6	849.9	771.0	670.8	600.1	509.6	494.8	485.0	318.9	115.1	93.7
80°	690.5	550.7	512.9	435.7	371.5	356.7	365.0	111.8	88.8	74.0	64.1
82.5°	438.9	351.8	287.7	251.5	245.0	106.9	78.9	64.1	55.9	47.7	39.5
85°	235.1	156.2	144.7	121.7	72.3	49.3	41.1	31.2	26.3	21.4	19.7
87.5°	74.0	62.5	51.0	41.1	24.7	16.4	13.2	11.5	9.9	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8
2.5°	5520.6	5523.8	5522.2	5527.1	5527.1	5533.7	5538.6	5543.6	5553.4	5558.4	5596.2
5°	5591.2	5599.5	5624.1	5647.1	5675.1	5683.3	5731.0	5742.5	5798.4	5805.0	5989.1
7.5°	5749.1	5780.3	5839.5	5898.7	5957.9	5995.7	6061.4	6102.5	6146.9	6186.4	6332.7
10°	5939.8	5992.4	6049.9	6109.1	6143.6	6216.0	6255.4	6262.0	6250.5	6186.4	5949.6
12.5°	6127.2	6179.8	6155.1	6166.6	6207.7	6079.5	6097.6	6005.5	6069.6	5752.4	5517.3
15°	6100.9	6097.6	6036.8	5839.5	5872.4	5627.4	5528.8	5453.1	5514.0	5481.1	5444.9
17.5°	6022.0	5872.4	5767.2	5530.4	5430.1	5361.1	5362.7	5364.4	5334.8	5366.0	5274.0
20°	5688.2	5520.6	5364.4	5280.5	5250.9	5201.6	5226.3	5201.6	5203.3	5213.1	5071.7
22.5°	5244.4	5193.4	5103.0	5129.3	5119.4	5163.8	5130.9	5080.0	5096.4	5022.4	4915.6
25°	5065.2	5006.0	5002.7	5012.6	4997.8	4978.0	4948.4	4871.2	4866.2	4843.2	4793.9
27.5°	4884.3	4887.6	4897.5	4867.9	4815.3	4775.8	4731.4	4693.6	4708.4	4682.1	4614.7
30°	4759.4	4757.7	4698.6	4672.2	4575.3	4576.9	4565.4	4542.4	4527.6	4529.2	4486.5
32.5°	4581.8	4530.9	4463.5	4430.6	4422.4	4392.8	4369.8	4374.7	4386.2	4345.1	4389.5
35°	4399.3	4294.1	4284.3	4256.3	4230.0	4210.3	4218.5	4185.6	4184.0	4179.0	3817.4
37.5°	4154.4	4103.4	4098.5	4068.9	4050.8	4045.9	4014.6	4019.6	4034.4	4060.7	3255.1
40°	3952.2	3906.1	3894.6	3893.0	3853.5	3850.2	3858.5	3889.7	3911.1	3746.7	3102.2
42.5°	3735.2	3738.5	3702.3	3679.3	3684.2	3699.0	3738.5	3630.0	3145.0	2997.0	2835.9
45°	3549.4	3533.0	3513.2	3506.7	3549.4	3519.8	3085.8	2847.4	2789.9	2783.3	2331.2
47.5°	3355.4	3350.5	3342.3	3347.2	3103.9	2766.9	2668.2	2637.0	2646.8	2640.3	2002.4
50°	3159.8	3166.3	3166.3	2765.2	2538.3	2482.4	2490.7	2518.6	2344.3	2188.2	1865.9
52.5°	2990.4	2939.5	2518.6	2373.9	2323.0	2347.6	2288.4	2069.8	1912.0	1819.9	1726.2
55°	2676.4	2301.6	2207.9	2184.9	2203.0	1984.3	1849.5	1708.1	1667.0	1657.2	1602.9
57.5°	2106.0	2030.3	2038.6	1946.5	1737.7	1614.4	1560.2	1540.4	1522.3	1509.2	131.5
60°	1862.7	1884.0	1724.6	1527.3	1443.4	1427.0	1413.8	1395.8	1392.5	1369.5	83.8
62.5°	1704.8	1499.3	1361.2	1311.9	1292.2	1287.3	1262.6	1254.4	1065.3	146.3	62.5
65°	1285.6	1201.8	1175.5	1164.0	1142.6	1142.6	948.6	149.6	121.7	105.2	55.9
67.5°	1048.9	1042.3	1029.1	1014.3	690.5	144.7	126.6	110.1	95.4	83.8	49.3
70°	887.8	884.5	805.6	148.0	123.3	108.5	95.4	85.5	78.9	70.7	44.4
72.5°	728.3	148.0	124.9	108.5	93.7	85.5	77.3	69.0	62.5	57.5	36.2
75°	113.4	100.3	88.8	80.6	74.0	65.8	59.2	54.3	52.6	46.0	24.7
77.5°	82.2	70.7	64.1	57.5	51.0	46.0	39.5	34.5	31.2	26.3	18.1
80°	57.5	51.0	46.0	37.8	32.9	27.9	24.7	21.4	19.7	16.4	8.2
82.5°	32.9	27.9	24.7	19.7	18.1	14.8	13.2	11.5	11.5	8.2	8.2
85°	14.8	14.8	11.5	9.9	8.2	8.2	8.2	6.6	6.6	4.9	4.9
87.5°	6.6	6.6	6.6	6.6	6.6	4.9	4.9	4.9	4.9	4.9	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8
2.5°	5648.8	5670.2	5711.3	5754.0	5706.3	5877.3	5864.1	5921.7	5952.9	5967.7	6002.2
5°	6151.8	6247.2	6278.4	6184.7	6130.5	6074.6	5948.0	5852.6	5864.1	5832.9	5719.5
7.5°	6142.0	5938.1	5663.6	5538.6	5528.8	5514.0	5553.4	5576.4	5579.7	5578.1	5574.8
10°	5622.5	5517.3	5499.2	5482.7	5489.3	5428.5	5400.5	5321.6	5364.4	5341.4	5349.6
12.5°	5464.7	5440.0	5343.0	5208.2	5288.7	5227.9	5193.4	5216.4	5190.1	5165.4	5157.2
15°	5370.9	5211.5	5157.2	5124.3	5101.3	5088.2	5099.7	5073.4	5065.2	5060.2	5071.7
17.5°	5177.0	5112.8	5053.7	4966.5	4968.2	4963.2	4996.1	5045.4	5048.7	4795.5	4567.0
20°	5024.1	4971.5	4895.8	4841.6	4915.6	4784.0	4276.0	4034.4	3996.6	3996.6	4003.1
22.5°	4902.4	4785.7	4790.6	4705.1	4013.0	3871.6	3874.9	3889.7	3822.3	3592.1	3567.5
25°	4736.4	4718.3	4358.2	3766.4	3771.3	3661.2	3491.9	3253.5	2995.4	2995.4	2952.6
27.5°	4611.4	4228.4	3702.3	3677.6	3307.7	3074.3	2929.6	2711.0	2681.4	2653.4	2656.7
30°	4504.6	3577.3	3590.5	3074.3	2801.4	2607.4	2595.9	2559.7	2541.6	2536.7	2518.6
32.5°	3560.9	3483.6	3005.2	2617.2	2510.4	2479.2	2464.4	2423.3	2421.6	2390.4	2173.4
35°	3339.0	3057.8	2515.3	2410.1	2378.9	2349.3	2324.6	1560.2	184.1	74.0	64.1
37.5°	3085.8	2554.8	2326.3	2278.6	2249.0	1662.1	166.0	57.5	41.1	29.6	26.3
40°	2615.6	2281.9	2209.5	2156.9	889.4	57.5	36.2	27.9	16.4	14.8	13.2
42.5°	2206.2	2150.4	2073.1	631.3	65.8	27.9	18.1	13.2	11.5	11.5	9.9
45°	2064.9	2015.5	835.2	62.5	41.1	13.2	11.5	11.5	9.9	6.6	6.6
47.5°	1933.3	1701.5	75.6	39.5	26.3	11.5	9.9	6.6	6.6	6.6	4.9
50°	1793.6	93.7	52.6	29.6	16.4	6.6	6.6	6.6	6.6	4.9	4.9
52.5°	335.4	65.8	42.7	26.3	8.2	6.6	6.6	6.6	4.9	4.9	4.9
55°	78.9	52.6	39.5	23.0	6.6	6.6	6.6	4.9	4.9	4.9	3.3
57.5°	59.2	39.5	31.2	21.4	6.6	4.9	4.9	4.9	4.9	4.9	3.3
60°	49.3	27.9	24.7	19.7	4.9	4.9	4.9	4.9	4.9	4.9	3.3
62.5°	34.5	23.0	18.1	14.8	4.9	4.9	4.9	4.9	4.9	4.9	4.9
65°	27.9	18.1	14.8	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
67.5°	24.7	14.8	9.9	3.3	4.9	4.9	4.9	4.9	4.9	4.9	4.9
70°	19.7	4.9	4.9	3.3	4.9	4.9	4.9	4.9	4.9	4.9	4.9
72.5°	16.4	4.9	3.3	3.3	4.9	4.9	4.9	4.9	4.9	4.9	4.9
75°	16.4	8.2	3.3	3.3	4.9	4.9	6.6	6.6	4.9	4.9	4.9
77.5°	11.5	8.2	3.3	3.3	4.9	4.9	6.6	6.6	4.9	4.9	4.9
80°	6.6	8.2	3.3	4.9	4.9	9.9	11.5	6.6	4.9	4.9	4.9
82.5°	6.6	8.2	9.9	9.9	4.9	8.2	9.9	8.2	6.6	4.9	4.9
85°	6.6	4.9	6.6	8.2	4.9	8.2	8.2	6.6	6.6	4.9	4.9
87.5°	3.3	4.9	4.9	6.6	6.6	6.6	8.2	6.6	6.6	6.6	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: P1214230

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8
2.5°	6018.7	6025.3	5921.7	5885.5	5916.8	5910.2	5882.2	5778.7	5767.2	5698.1	5597.8
5°	5752.4	5796.7	5742.5	5836.2	5791.8	5836.2	5971.0	6033.5	6135.4	6197.9	6220.9
7.5°	5566.6	5576.4	5576.4	5584.7	5592.9	5594.5	5584.7	5578.1	5550.1	5515.6	5578.1
10°	5341.4	5352.9	5372.6	5369.3	5367.7	5402.2	5410.4	5481.1	5477.8	5491.0	5538.6
12.5°	5224.6	5135.9	5216.4	5195.0	5224.6	5178.6	5264.1	5249.3	5254.2	5293.7	5395.6
15°	5030.6	5058.6	5078.3	5078.3	5089.8	5080.0	5070.1	5137.5	5178.6	5180.2	5173.7
17.5°	4657.5	4445.4	4662.4	4606.5	5052.0	5063.5	5025.7	4994.5	4994.5	5019.1	5071.7
20°	3998.2	4003.1	4004.8	4026.2	4052.5	4050.8	4052.5	4700.2	5007.6	4936.9	4889.3
22.5°	3505.0	3444.2	3557.6	3549.4	3690.8	3847.0	3996.6	3981.8	3991.6	4448.7	4859.7
25°	2809.6	2888.5	2824.4	2852.3	3011.8	3197.6	3312.7	3613.5	3940.7	3917.7	4024.5
27.5°	2645.2	2623.8	2653.4	2653.4	2674.8	2699.4	2763.6	2932.9	3223.9	3529.7	3819.0
30°	2489.0	2507.1	2510.4	2540.0	2556.4	2572.9	2582.7	2646.8	2712.6	2924.7	3281.4
32.5°	1869.2	1639.1	2156.9	2296.7	2415.0	2443.0	2462.7	2489.0	2536.7	2567.9	2747.1
35°	54.3	54.3	57.5	65.8	83.8	565.5	2153.6	2373.9	2405.2	2444.6	2477.5
37.5°	26.3	19.7	23.0	24.7	29.6	41.1	59.2	184.1	2050.1	2318.0	2354.2
40°	11.5	11.5	11.5	11.5	13.2	16.4	24.7	41.1	62.5	1648.9	2224.3
42.5°	9.9	9.9	9.9	9.9	9.9	9.9	11.5	14.8	29.6	70.7	1167.2
45°	6.6	6.6	4.9	6.6	6.6	8.2	9.9	9.9	13.2	44.4	80.6
47.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	8.2	9.9	29.6	42.7
50°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	23.0	29.6
52.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	9.9	26.3
55°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.9	4.9	6.6	23.0
57.5°	3.3	3.3	3.3	3.3	3.3	4.9	3.3	3.3	4.9	4.9	21.4
60°	3.3	3.3	3.3	3.3	3.3	4.9	4.9	4.9	4.9	4.9	19.7
62.5°	4.9	4.9	3.3	4.9	3.3	3.3	4.9	4.9	4.9	4.9	13.2
65°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	3.3	4.9
67.5°	4.9	4.9	4.9	4.9	3.3	4.9	3.3	4.9	4.9	3.3	3.3
70°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	3.3	3.3	3.3	3.3
72.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	3.3	3.3	3.3	3.3
75°	4.9	4.9	4.9	4.9	4.9	4.9	6.6	6.6	3.3	3.3	3.3
77.5°	4.9	4.9	4.9	4.9	4.9	4.9	8.2	9.9	8.2	8.2	3.3
80°	4.9	4.9	4.9	4.9	4.9	4.9	8.2	8.2	8.2	8.2	11.5
82.5°	4.9	4.9	4.9	4.9	4.9	4.9	6.6	6.6	6.6	6.6	8.2
85°	4.9	4.9	4.9	4.9	4.9	4.9	6.6	6.6	6.6	4.9	6.6
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.6	4.9	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: P1214230

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8
2.5°	5606.0	5550.1	5532.1	5494.2	5491.0	5494.2	5486.0	5474.5	5481.1	5469.6	5459.7
5°	6234.0	6084.4	5987.4	5857.6	5678.4	5638.9	5629.1	5573.2	5553.4	5546.9	5520.6
7.5°	5726.1	5999.0	6163.4	6219.3	6008.8	5959.5	5902.0	5855.9	5811.5	5727.7	5676.7
10°	5500.8	5514.0	5671.8	5855.9	6155.1	6196.2	6227.5	6127.2	6099.2	5885.5	5839.5
12.5°	5448.2	5449.9	5467.9	5579.7	5814.8	5841.1	5951.3	6010.5	6082.8	6123.9	6091.0
15°	5208.2	5341.4	5440.0	5449.9	5471.2	5517.3	5550.1	5755.6	5842.8	6076.2	6063.1
17.5°	5096.4	5139.1	5282.2	5398.9	5379.2	5362.7	5389.0	5417.0	5500.8	5734.3	5731.0
20°	4910.6	5047.1	5124.3	5246.0	5356.2	5361.1	5331.5	5315.1	5282.2	5320.0	5354.5
22.5°	4831.7	4853.1	4997.8	5083.2	5208.2	5252.6	5259.2	5260.8	5242.7	5223.0	5213.1
25°	4823.5	4756.1	4830.1	4936.9	5029.0	5076.7	5130.9	5149.0	5142.4	5142.4	5132.6
27.5°	3947.2	4734.7	4695.3	4766.0	4877.7	4910.6	4938.6	4994.5	5029.0	5053.7	5065.2
30°	3759.8	3901.2	4590.0	4599.9	4713.3	4710.1	4741.3	4787.3	4831.7	4889.3	4904.1
32.5°	3325.8	3672.7	4202.1	4433.9	4552.2	4563.7	4580.2	4593.3	4634.4	4698.6	4754.4
35°	2664.9	3345.5	3600.4	4355.0	4376.3	4399.3	4409.2	4440.4	4453.6	4479.9	4529.2
37.5°	2411.7	2765.2	3454.0	3766.4	4174.1	4193.8	4246.5	4259.6	4281.0	4302.3	4340.2
40°	2265.4	2362.4	2875.4	3363.6	4011.4	4024.5	4042.6	4075.5	4077.1	4101.8	4136.3
42.5°	2148.7	2211.2	2360.8	3212.4	3896.3	3894.6	3851.9	3873.3	3883.1	3909.4	3957.1
45°	1716.3	2074.7	2170.1	2623.8	3102.2	3325.8	3754.9	3684.2	3682.6	3692.4	3743.4
47.5°	87.1	1951.4	2018.8	2165.1	2929.6	2937.8	2993.7	3463.9	3536.2	3513.2	3518.2
50°	59.2	134.8	1880.7	1948.1	2525.2	2729.0	2770.1	2791.5	3062.8	3365.3	3315.9
52.5°	46.0	77.3	1152.4	1808.4	2051.7	2201.3	2466.0	2617.2	2633.7	2755.3	3168.0
55°	41.1	59.2	124.9	1668.7	1744.3	1777.2	1931.7	2196.4	2410.1	2474.2	2479.2
57.5°	36.2	54.3	85.5	754.6	1586.5	1593.0	1619.3	1711.4	1903.8	2079.7	2278.6
60°	32.9	47.7	67.4	129.9	1441.8	1458.2	1463.2	1487.8	1510.8	1630.8	1859.4
62.5°	19.7	37.8	59.2	93.7	1140.9	1310.3	1308.6	1325.1	1346.4	1359.6	1405.6
65°	16.4	29.6	51.0	78.9	139.7	174.3	1058.7	1177.1	1190.3	1208.3	1216.6
67.5°	14.8	26.3	37.8	62.5	105.2	120.0	138.1	171.0	933.8	1052.2	1068.6
70°	13.2	18.1	31.2	52.6	85.5	92.1	103.6	118.4	139.7	172.6	845.0
72.5°	8.2	13.2	21.4	37.8	65.8	74.0	80.6	90.4	100.3	120.0	138.1
75°	3.3	9.9	18.1	27.9	51.0	55.9	60.8	67.4	75.6	88.8	98.6
77.5°	3.3	8.2	14.8	19.7	32.9	37.8	44.4	49.3	55.9	62.5	72.3
80°	11.5	6.6	9.9	14.8	23.0	24.7	27.9	31.2	36.2	41.1	47.7
82.5°	8.2	9.9	11.5	9.9	11.5	14.8	16.4	19.7	21.4	24.7	26.3
85°	6.6	6.6	8.2	8.2	8.2	8.2	8.2	8.2	9.9	11.5	14.8
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.6	6.6
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: P1214230

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8
2.5°	5459.7	5456.4	5446.6	5446.6	5444.9	5451.5	5456.4	5461.4	5459.7	5469.6	5459.7
5°	5500.8	5492.6	5477.8	5464.7	5459.7	5463.0	5458.1	5463.0	5456.4	5464.7	5449.9
7.5°	5614.3	5586.3	5528.8	5505.8	5476.2	5474.5	5459.7	5456.4	5446.6	5446.6	5428.5
10°	5814.8	5680.0	5663.6	5594.5	5569.9	5449.9	5476.2	5431.8	5426.8	5405.5	5397.3
12.5°	5979.2	5874.0	5842.8	5781.9	5712.9	5469.6	5523.8	5428.5	5423.6	5380.8	5336.4
15°	5982.5	6043.3	5957.9	5790.2	5775.4	5607.7	5497.5	5464.7	5421.9	5293.7	5315.1
17.5°	5790.2	5929.9	5971.0	5934.8	5829.6	5716.2	5561.7	5495.9	5367.7	5310.1	5270.7
20°	5477.8	5619.2	5795.1	5806.6	5872.4	5791.8	5589.6	5482.7	5328.2	5227.9	5195.0
22.5°	5229.6	5333.1	5535.3	5629.1	5709.6	5737.6	5609.3	5451.5	5259.2	5162.2	5142.4
25°	5098.0	5121.1	5181.9	5292.0	5469.6	5597.8	5615.9	5448.2	5347.9	5135.9	5024.1
27.5°	5050.4	5030.6	5006.0	5061.9	5195.0	5351.2	5454.8	5482.7	5232.9	5030.6	4918.8
30°	4928.7	4940.2	4902.4	4882.7	4969.8	5130.9	5315.1	5361.1	5168.7	4959.9	4831.7
32.5°	4779.1	4798.8	4805.4	4770.9	4752.8	4864.6	5063.5	5173.7	5163.8	4859.7	4716.6
35°	4591.7	4647.6	4662.4	4664.0	4634.4	4616.4	4731.4	4959.9	5047.1	4813.6	4606.5
37.5°	4394.4	4410.9	4491.4	4512.8	4512.8	4458.5	4544.0	4726.5	4848.2	4710.1	4471.7
40°	4147.8	4200.4	4276.0	4313.9	4351.7	4356.6	4308.9	4437.2	4637.7	4603.2	4345.1
42.5°	3968.6	4003.1	4049.2	4100.1	4177.4	4197.1	4147.8	4170.8	4379.6	4470.0	4180.7
45°	3759.8	3805.9	3819.0	3874.9	3955.5	4013.0	4011.4	3963.7	4131.4	4243.2	4060.7
47.5°	3546.1	3590.5	3613.5	3641.5	3700.6	3774.6	3815.7	3794.4	3827.2	4045.9	3901.2
50°	3325.8	3350.5	3396.5	3427.7	3467.2	3509.9	3608.6	3628.3	3582.3	3756.5	3725.3
52.5°	3117.0	3125.2	3156.5	3187.7	3240.3	3271.6	3350.5	3409.7	3406.4	3457.3	3529.7
55°	2954.3	2918.1	2924.7	2949.3	2983.9	3031.5	3075.9	3168.0	3199.2	3209.1	3324.2
57.5°	2308.2	2679.7	2712.6	2711.0	2752.1	2773.4	2814.5	2875.4	2987.1	2962.5	3090.7
60°	2097.7	2138.8	2449.6	2485.7	2500.5	2520.3	2569.6	2625.5	2707.7	2760.3	2816.2
62.5°	1599.6	1849.5	1943.2	2217.8	2260.5	2272.0	2304.9	2331.2	2416.7	2536.7	2513.7
65°	1237.9	1344.8	1630.8	1742.6	1976.1	2005.7	2051.7	2079.7	2104.3	2242.4	2249.0
67.5°	1070.2	1086.7	1164.0	1379.3	1527.3	1755.8	1783.7	1808.4	1846.2	1944.9	2005.7
70°	914.1	933.8	955.2	973.2	1165.6	1316.8	1528.9	1537.1	1561.8	1627.6	1765.7
72.5°	172.6	780.9	794.1	805.6	826.9	927.2	1129.4	1293.8	1303.7	1334.9	1461.5
75°	116.7	136.5	187.4	644.4	665.8	672.4	706.9	912.4	1063.7	1070.2	1126.1
77.5°	83.8	93.7	113.4	134.8	343.6	516.2	524.4	562.2	718.4	831.9	841.7
80°	57.5	64.1	75.6	85.5	105.2	138.1	381.4	392.9	412.6	568.8	598.4
82.5°	32.9	37.8	44.4	54.3	62.5	78.9	101.9	131.5	268.0	286.1	379.8
85°	16.4	18.1	21.4	26.3	31.2	37.8	51.0	62.5	85.5	154.5	159.5
87.5°	8.2	8.2	8.2	8.2	13.2	14.8	18.1	23.0	29.6	44.4	57.5
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: P1214230

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8
2.5°	5461.4	5484.4	5504.1	5509.0	5509.0	5512.3	5517.3	5520.6	5523.8	5527.1	5523.8
5°	5451.5	5476.2	5492.6	5497.5	5497.5	5507.4	5515.6	5525.5	5530.4	5530.4	5527.1
7.5°	5426.8	5444.9	5466.3	5479.5	5481.1	5497.5	5512.3	5510.7	5517.3	5520.6	5528.8
10°	5394.0	5394.0	5430.1	5440.0	5448.2	5466.3	5471.2	5481.1	5504.1	5507.4	5528.8
12.5°	5377.5	5361.1	5403.8	5408.8	5436.7	5413.7	5443.3	5453.1	5430.1	5461.4	5420.3
15°	5303.5	5323.3	5316.7	5331.5	5380.8	5354.5	5435.1	5408.8	5467.9	5397.3	5522.2
17.5°	5242.7	5239.4	5265.7	5278.9	5288.7	5344.6	5366.0	5395.6	5418.6	5398.9	5448.2
20°	5198.3	5172.0	5191.8	5206.5	5241.1	5283.8	5297.0	5252.6	5329.8	5461.4	5492.6
22.5°	5114.5	5096.4	5119.4	5119.4	5172.0	5165.4	5214.8	5186.8	5259.2	5412.0	5571.5
25°	5001.0	5002.7	5027.4	5056.9	5066.8	5140.8	5167.1	5203.3	5293.7	5476.2	5573.2
27.5°	4886.0	4876.1	4890.9	4951.7	5002.7	5056.9	5065.2	5188.5	5311.8	5436.7	5522.2
30°	4770.9	4761.0	4770.9	4815.3	4876.1	4912.3	5002.7	5167.1	5282.2	5367.7	5448.2
32.5°	4647.6	4637.7	4660.7	4693.6	4800.5	4805.4	4984.6	5139.1	5229.6	5292.0	5277.2
35°	4516.1	4502.9	4524.3	4575.3	4673.9	4710.1	4897.5	5012.6	5114.5	5144.1	5075.0
37.5°	4358.2	4335.2	4361.5	4432.2	4535.8	4641.0	4797.2	4930.4	4984.6	4905.7	4823.5
40°	4193.8	4177.4	4223.4	4259.6	4381.3	4527.6	4706.8	4800.5	4766.0	4675.5	4585.1
42.5°	4047.5	4013.0	4054.1	4123.2	4261.2	4427.3	4572.0	4624.6	4542.4	4409.2	4304.0
45°	3868.3	3827.2	3876.6	3968.6	4116.6	4305.6	4419.1	4401.0	4261.2	4146.2	4001.5
47.5°	3680.9	3631.6	3680.9	3791.1	3957.1	4157.7	4239.9	4157.7	3981.8	3837.1	3720.4
50°	3496.8	3439.2	3486.9	3653.0	3815.7	3970.3	3968.6	3809.1	3703.9	3546.1	3444.2
52.5°	3314.3	3232.1	3279.8	3460.6	3623.4	3799.3	3669.4	3521.4	3394.9	3256.8	3223.9
55°	3089.1	3000.3	3064.4	3327.5	3452.4	3556.0	3348.8	3219.0	3094.0	3025.0	2983.9
57.5°	2875.4	2778.4	2834.3	3145.0	3237.0	3263.3	3072.6	2888.5	2814.5	2791.5	2732.3
60°	2655.1	2544.9	2597.5	2955.9	3020.0	2913.2	2725.8	2582.7	2567.9	2521.9	2475.9
62.5°	2444.6	2323.0	2355.9	2720.8	2750.4	2556.4	2383.8	2346.0	2309.8	2263.8	2239.1
65°	2203.0	2076.4	2122.4	2470.9	2443.0	2193.1	2096.1	2087.9	2040.2	2002.4	2038.6
67.5°	1981.0	1831.4	1895.5	2198.0	2071.4	1867.6	1828.1	1808.4	1770.6	1792.0	1412.2
70°	1737.7	1575.0	1662.1	1903.8	1716.3	1581.5	1566.7	1537.1	1538.8	1223.1	1030.8
72.5°	1466.4	1325.1	1451.7	1581.5	1357.9	1318.5	1297.1	1293.8	1043.9	848.3	800.6
75°	1228.1	1085.0	1221.5	1270.8	1081.8	1055.4	1053.8	871.3	685.5	654.3	639.5
77.5°	958.5	848.3	978.2	904.2	830.2	800.6	718.4	539.2	516.2	494.8	185.8
80°	646.1	654.3	729.9	623.1	591.8	504.7	397.8	381.4	328.8	131.5	103.6
82.5°	392.9	493.2	465.3	389.6	381.4	274.5	251.5	128.2	95.4	75.6	65.8
85°	203.9	249.9	240.0	212.1	157.8	141.4	78.9	60.8	49.3	37.8	31.2
87.5°	69.0	92.1	88.8	70.7	54.3	42.7	27.9	23.0	16.4	13.2	11.5
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: P1214230

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8
2.5°	5520.6	5520.6	5517.3	5520.6	5522.2	5518.9	5518.9	5522.2	5523.8	5525.5	5533.7
5°	5528.8	5532.1	5537.0	5546.9	5548.5	5568.2	5576.4	5581.4	5586.3	5588.0	5576.4
7.5°	5546.9	5558.4	5568.2	5566.6	5555.1	5523.8	5514.0	5505.8	5520.6	5558.4	5602.8
10°	5563.3	5510.7	5412.0	5546.9	5505.8	5543.6	5655.4	5680.0	5755.6	5862.5	5893.7
12.5°	5449.9	5594.5	5625.8	5474.5	5754.0	5650.4	5773.7	5882.2	5913.5	6022.0	5956.2
15°	5571.5	5642.2	5689.9	5841.1	5824.7	5913.5	5948.0	5926.6	5931.6	5959.5	6033.5
17.5°	5569.9	5711.3	5742.5	5844.4	5913.5	5915.1	5905.2	5895.4	5921.7	5943.1	5898.7
20°	5665.2	5711.3	5772.1	5813.2	5826.3	5842.8	5874.0	5849.4	5800.0	5752.4	5732.6
22.5°	5617.5	5721.1	5773.7	5780.3	5772.1	5721.1	5675.1	5606.0	5583.0	5558.4	5566.6
25°	5627.4	5675.1	5668.5	5642.2	5607.7	5512.3	5489.3	5459.7	5415.3	5308.5	5211.5
27.5°	5556.7	5532.1	5502.5	5438.4	5375.9	5324.9	5267.4	5172.0	5093.1	4978.0	4935.3
30°	5438.4	5339.7	5267.4	5229.6	5168.7	5083.2	4996.1	4879.4	4779.1	4756.1	4734.7
32.5°	5211.5	5114.5	5055.3	4963.2	4859.7	4757.7	4657.5	4611.4	4590.0	4593.3	4573.6
35°	4979.7	4894.2	4805.4	4667.3	4590.0	4488.1	4452.0	4442.1	4422.4	4401.0	4378.0
37.5°	4733.1	4632.8	4499.6	4417.4	4340.2	4299.1	4281.0	4266.2	4231.7	4193.8	4167.5
40°	4494.7	4313.9	4239.9	4159.3	4136.3	4118.2	4091.9	4055.7	4008.1	4001.5	3990.0
42.5°	4175.8	4045.9	3981.8	3965.3	3937.4	3906.1	3883.1	3843.7	3823.9	3837.1	3847.0
45°	3873.3	3807.5	3786.1	3766.4	3713.8	3669.4	3654.6	3641.5	3657.9	3730.2	3557.6
47.5°	3628.3	3602.0	3575.7	3542.8	3493.5	3460.6	3475.4	3488.6	3503.4	2972.4	2712.6
50°	3416.2	3380.1	3339.0	3302.8	3273.2	3269.9	3347.2	3115.4	2609.0	2595.9	2332.8
52.5°	3184.4	3130.2	3105.5	3084.1	3097.3	3146.6	2604.1	2416.7	2318.0	2013.9	1879.1
55°	2934.5	2886.9	2886.9	2906.6	2835.9	2298.3	2270.4	1962.9	1777.2	1724.6	1703.2
57.5°	2684.7	2679.7	2707.7	2475.9	2086.2	2000.7	1681.8	1614.4	1584.8	1578.2	1543.7
60°	2456.1	2502.2	2094.5	1926.8	1675.2	1510.8	1464.8	1456.6	1425.3	1413.8	1382.6
62.5°	2273.7	1885.7	1755.8	1433.6	1349.7	1328.4	1303.7	1292.2	1264.2	1116.3	327.2
65°	1642.4	1551.9	1259.3	1205.1	1198.5	1167.2	1157.4	1040.7	245.0	164.4	139.7
67.5°	1239.6	1099.8	1062.0	1052.2	1020.9	958.5	284.4	162.8	139.7	121.7	106.9
70°	951.9	927.2	899.3	876.3	258.1	161.1	139.7	118.4	101.9	90.4	82.2
72.5°	779.3	762.8	443.9	169.3	138.1	116.7	103.6	90.4	78.9	72.3	65.8
75°	609.9	169.3	139.7	116.7	100.3	85.5	75.6	67.4	60.8	55.9	51.0
77.5°	138.1	111.8	95.4	80.6	72.3	64.1	57.5	49.3	44.4	39.5	32.9
80°	85.5	74.0	62.5	57.5	49.3	41.1	36.2	32.9	26.3	24.7	21.4
82.5°	55.9	44.4	39.5	32.9	26.3	24.7	21.4	16.4	14.8	13.2	11.5
85°	24.7	21.4	18.1	14.8	11.5	9.9	8.2	6.6	6.6	6.6	6.6
87.5°	8.2	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	3.3	3.3
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: P1214230

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8
2.5°	5537.0	5566.6	5594.5	5586.3	5556.7	5510.7	5497.5	5479.5	5492.6	5520.6	5532.1
5°	5576.4	5560.0	5619.2	5706.3	5847.7	5860.9	5959.5	5982.5	6061.4	6110.7	6109.1
7.5°	5632.3	5865.8	5962.8	6068.0	6115.7	6104.2	6119.0	6107.5	6089.4	6081.2	6071.3
10°	5916.8	6094.3	6130.5	6130.5	6056.5	5956.2	5913.5	5839.5	5691.5	5694.8	5670.2
12.5°	6082.8	6145.3	6059.8	5987.4	5689.9	5574.8	5449.9	5390.7	5356.2	5303.5	5323.3
15°	5995.7	5906.9	5855.9	5622.5	5440.0	5232.9	5236.1	5200.0	5162.2	5165.4	5140.8
17.5°	5867.4	5796.7	5435.1	5274.0	5185.2	5104.6	5089.8	5042.1	5017.5	5009.3	5007.6
20°	5691.5	5436.7	5167.1	5127.6	5020.8	4928.7	4913.9	4928.7	5004.3	4869.5	4412.5
22.5°	5486.0	5119.4	5040.5	4928.7	4856.4	4820.2	4910.6	4499.6	3878.2	3953.8	3873.3
25°	5137.5	4978.0	4843.2	4757.7	4749.5	4527.6	3773.0	3694.1	3294.6	3080.9	2840.8
27.5°	4882.7	4813.6	4672.2	4657.5	4550.6	3702.3	3309.4	2875.4	2715.9	2691.2	2638.6
30°	4728.1	4629.5	4544.0	4170.8	3631.6	2980.6	2655.1	2594.2	2566.3	2536.7	2490.7
32.5°	4542.4	4448.7	4489.8	3506.7	2895.1	2566.3	2500.5	2456.1	2405.2	2385.4	2219.4
35°	4353.3	4310.6	3508.3	2947.7	2489.0	2410.1	2360.8	2314.8	1841.3	445.5	151.2
37.5°	4151.1	4141.2	3153.2	2446.3	2331.2	2257.2	2117.5	437.3	103.6	70.7	52.6
40°	3993.3	3154.8	2492.3	2293.4	2199.7	2082.9	292.6	72.3	46.0	27.9	18.1
42.5°	3888.1	2837.5	2230.9	2152.0	1948.1	215.4	74.0	31.2	18.1	14.8	11.5
45°	2997.0	2240.8	2084.6	2002.4	246.6	74.0	42.7	14.8	11.5	9.9	6.6
47.5°	2765.2	2035.3	1943.2	437.3	82.2	39.5	29.6	9.9	6.6	6.6	6.6
50°	2094.5	1880.7	1547.0	106.9	52.6	27.9	21.4	6.6	6.6	6.6	4.9
52.5°	1836.3	1736.1	166.0	70.7	41.1	21.4	13.2	4.9	4.9	4.9	4.9
55°	1678.5	1101.5	98.6	54.3	34.5	19.7	8.2	4.9	4.9	4.9	3.3
57.5°	1535.5	148.0	72.3	46.0	31.2	18.1	4.9	4.9	4.9	4.9	3.3
60°	1302.0	106.9	59.2	41.1	29.6	16.4	4.9	4.9	4.9	4.9	4.9
62.5°	169.3	83.8	51.0	36.2	21.4	13.2	3.3	4.9	4.9	4.9	4.9
65°	123.3	65.8	46.0	24.7	13.2	4.9	3.3	4.9	4.9	4.9	4.9
67.5°	95.4	54.3	34.5	21.4	11.5	3.3	3.3	4.9	4.9	4.9	4.9
70°	75.6	46.0	27.9	18.1	9.9	3.3	3.3	4.9	4.9	4.9	4.9
72.5°	59.2	32.9	19.7	9.9	6.6	3.3	3.3	4.9	4.9	4.9	4.9
75°	44.4	26.3	14.8	8.2	3.3	3.3	3.3	4.9	4.9	4.9	4.9
77.5°	29.6	16.4	11.5	6.6	6.6	6.6	8.2	8.2	4.9	4.9	4.9
80°	19.7	11.5	8.2	8.2	8.2	6.6	8.2	8.2	4.9	8.2	4.9
82.5°	9.9	8.2	8.2	6.6	6.6	4.9	6.6	6.6	6.6	6.6	4.9
85°	6.6	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.6	6.6	4.9
87.5°	3.3	3.3	3.3	3.3	4.9	4.9	4.9	4.9	6.6	6.6	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: P1214230

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8
2.5°	5517.3	5522.2	5509.0	5579.7	5543.6	5546.9	5561.7	5523.8	5532.1	5505.8	5487.7
5°	6115.7	6125.5	6135.4	6138.7	6145.3	6153.5	6143.6	6138.7	6128.8	6096.0	6061.4
7.5°	6022.0	6010.5	6005.5	6012.1	6023.6	6028.5	6020.3	6031.8	6074.6	6092.7	6104.2
10°	5528.8	5476.2	5512.3	5507.4	5466.3	5604.4	5566.6	5588.0	5602.8	5754.0	5846.1
12.5°	5293.7	5326.6	5264.1	5232.9	5274.0	5301.9	5329.8	5270.7	5352.9	5315.1	5436.7
15°	5096.4	5076.7	5070.1	5071.7	5063.5	5103.0	5112.8	5126.0	5137.5	5188.5	5208.2
17.5°	5007.6	5040.5	5053.7	5063.5	5047.1	5029.0	5010.9	4984.6	4992.8	4979.7	5017.5
20°	4105.1	3994.9	3988.3	4052.5	3981.8	4021.2	4116.6	4754.4	4733.1	4981.3	4897.5
22.5°	3426.1	3322.5	3233.7	3156.5	3266.6	3312.7	3490.2	3690.8	4016.3	3965.3	4318.8
25°	2798.1	2760.3	2737.3	2725.8	2734.0	2730.7	2770.1	2863.8	3011.8	3360.3	3810.8
27.5°	2617.2	2599.2	2590.9	2564.6	2584.4	2577.8	2609.0	2628.8	2673.1	2707.7	2854.0
30°	2474.2	2452.8	2438.1	2410.1	2429.8	2431.5	2441.3	2492.3	2510.4	2540.0	2586.0
32.5°	904.2	532.7	499.8	475.1	519.5	677.3	1188.6	2078.0	2370.6	2393.7	2446.3
35°	88.8	74.0	65.8	65.8	67.4	74.0	98.6	259.8	475.1	1836.3	2298.3
37.5°	34.5	29.6	24.7	23.0	24.7	27.9	37.8	49.3	67.4	139.7	623.1
40°	14.8	13.2	11.5	11.5	11.5	11.5	13.2	16.4	24.7	46.0	72.3
42.5°	9.9	8.2	8.2	8.2	8.2	8.2	8.2	8.2	11.5	14.8	29.6
45°	6.6	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.6	8.2	13.2
47.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.6
50°	4.9	4.9	4.9	4.9	3.3	4.9	3.3	4.9	4.9	4.9	4.9
52.5°	4.9	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.9	4.9
55°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.9
57.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
60°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
62.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.9	4.9	3.3
65°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.9	3.3
67.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
70°	4.9	4.9	3.3	4.9	3.3	3.3	4.9	4.9	4.9	3.3	3.3
72.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	9.9	9.9	6.6
75°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	8.2	9.9	8.2
77.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	8.2	8.2	8.2
80°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.6	6.6	6.6
82.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.6	6.6	6.6
85°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	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: P1214230

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8
2.5°	5456.4	5454.8	5489.3	5515.6	5505.8	5515.6	5527.1	5528.8	5532.1	5518.9	5514.0
5°	5995.7	5944.7	5846.1	5775.4	5693.2	5543.6	5469.6	5477.8	5479.5	5474.5	5481.1
7.5°	6099.2	6094.3	6059.8	6045.0	5989.1	5882.2	5711.3	5681.7	5609.3	5563.3	5525.5
10°	5839.5	5957.9	5989.1	6041.7	6074.6	6054.9	5910.2	5888.8	5842.8	5790.2	5801.7
12.5°	5558.4	5655.4	5660.3	5946.3	6010.5	6017.0	5961.1	5990.7	5997.3	5878.9	5809.9
15°	5213.1	5259.2	5356.2	5622.5	5816.5	5938.1	5974.3	5990.7	5910.2	5905.2	5877.3
17.5°	5061.9	5091.5	5135.9	5285.5	5579.7	5758.9	5911.8	5900.3	5931.6	5908.5	5837.8
20°	4871.2	4895.8	4974.7	5050.4	5195.0	5433.4	5719.5	5740.8	5781.9	5777.0	5796.7
22.5°	4867.9	4780.8	4793.9	4853.1	5004.3	5218.1	5522.2	5592.9	5619.2	5637.3	5658.6
25°	3861.8	4553.9	4680.5	4718.3	4816.9	4941.9	5300.3	5326.6	5375.9	5456.4	5515.6
27.5°	3345.5	3815.7	4322.1	4585.1	4647.6	4751.2	4964.9	5004.3	5172.0	5191.8	5283.8
30°	2640.3	3003.6	3759.8	4392.8	4496.3	4568.7	4719.9	4798.8	4871.2	4950.1	5047.1
32.5°	2484.1	2541.6	2960.8	3634.9	4440.4	4386.2	4498.0	4545.7	4624.6	4693.6	4764.3
35°	2341.1	2380.5	2469.3	2977.3	3616.8	4236.6	4312.2	4343.4	4387.8	4440.4	4491.4
37.5°	2191.5	2250.6	2311.5	2447.9	3345.5	4118.2	4116.6	4152.7	4179.0	4223.4	4266.2
40°	397.8	2066.5	2165.1	2253.9	2594.2	3284.7	3932.4	3948.9	3967.0	3994.9	4039.3
42.5°	64.1	345.2	2028.7	2114.2	2211.2	2941.1	3848.6	3781.2	3769.7	3789.4	3828.9
45°	32.9	83.8	407.7	1974.4	2061.6	2346.0	3146.6	3664.5	3653.0	3615.2	3623.4
47.5°	24.7	52.6	100.3	682.3	1930.1	2013.9	2903.3	2872.1	3090.7	3509.9	3445.8
50°	21.4	36.2	59.2	139.7	1704.8	1854.4	2235.8	2612.3	2727.4	2742.2	3245.3
52.5°	19.7	24.7	42.7	90.4	358.4	1714.7	1818.3	1949.8	2143.8	2559.7	2549.8
55°	18.1	23.0	36.2	60.8	124.9	1545.4	1652.2	1676.9	1718.0	1916.9	2179.9
57.5°	9.9	21.4	34.5	52.6	93.7	282.8	1499.3	1519.1	1551.9	1560.2	1653.9
60°	4.9	19.7	31.2	46.0	69.0	131.5	1348.1	1371.1	1390.8	1394.1	1423.7
62.5°	3.3	18.1	26.3	42.7	57.5	93.7	318.9	651.0	1237.9	1237.9	1272.5
65°	3.3	13.2	16.4	27.9	52.6	77.3	134.8	156.2	304.1	748.0	1116.3
67.5°	3.3	4.9	14.8	23.0	39.5	59.2	98.6	115.1	138.1	157.8	292.6
70°	3.3	3.3	13.2	14.8	24.7	44.4	70.7	80.6	93.7	106.9	123.3
72.5°	3.3	3.3	11.5	11.5	16.4	29.6	54.3	59.2	67.4	75.6	87.1
75°	8.2	6.6	9.9	9.9	11.5	23.0	41.1	46.0	49.3	55.9	64.1
77.5°	8.2	8.2	8.2	8.2	8.2	14.8	26.3	29.6	34.5	37.8	44.4
80°	6.6	6.6	6.6	8.2	8.2	9.9	16.4	18.1	19.7	24.7	26.3
82.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	9.9	11.5	14.8
85°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.6	6.6	6.6	6.6
87.5°	4.9	4.9	4.9	3.3	3.3	4.9	4.9	4.9	4.9	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: P1214230

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8	5477.8
2.5°	5512.3	5502.5	5494.2	5499.2	5484.4	5477.8	5482.7	5484.4	5487.7	5495.9	5497.5
5°	5497.5	5494.2	5509.0	5517.3	5514.0	5517.3	5517.3	5510.7	5500.8	5507.4	5492.6
7.5°	5487.7	5466.3	5449.9	5453.1	5436.7	5456.4	5474.5	5500.8	5509.0	5509.0	5492.6
10°	5657.0	5634.0	5541.9	5479.5	5438.4	5402.2	5487.7	5400.5	5441.6	5285.5	5464.7
12.5°	5796.7	5828.0	5786.9	5615.9	5586.3	5477.8	5540.3	5433.4	5402.2	5223.0	5280.5
15°	5852.6	5793.5	5780.3	5732.6	5668.5	5637.3	5469.6	5451.5	5400.5	5420.3	5344.6
17.5°	5803.3	5832.9	5793.5	5762.2	5696.5	5622.5	5522.2	5433.4	5362.7	5204.9	5338.1
20°	5755.6	5795.1	5676.7	5696.5	5703.0	5617.5	5564.9	5491.0	5402.2	5254.2	5139.1
22.5°	5676.7	5648.8	5658.6	5629.1	5604.4	5615.9	5543.6	5492.6	5343.0	5275.6	5119.4
25°	5548.5	5538.6	5564.9	5561.7	5502.5	5482.7	5446.6	5392.3	5333.1	5224.6	5096.4
27.5°	5339.7	5390.7	5436.7	5458.1	5426.8	5374.2	5354.5	5323.3	5282.2	5172.0	5076.7
30°	5119.4	5177.0	5229.6	5275.6	5303.5	5280.5	5262.4	5244.4	5181.9	5109.6	5002.7
32.5°	4867.9	4943.5	5015.8	5071.7	5132.6	5150.7	5137.5	5122.7	5070.1	5004.3	4918.8
35°	4576.9	4680.5	4785.7	4886.0	4912.3	4955.0	4997.8	4973.1	4945.2	4879.4	4800.5
37.5°	4330.3	4404.3	4479.9	4606.5	4698.6	4752.8	4828.4	4838.3	4790.6	4759.4	4655.8
40°	4075.5	4142.9	4253.0	4327.0	4453.6	4516.1	4596.6	4632.8	4621.3	4603.2	4512.8
42.5°	3874.9	3907.8	3980.1	4045.9	4170.8	4299.1	4369.8	4409.2	4450.3	4435.5	4389.5
45°	3661.2	3690.8	3715.4	3773.0	3894.6	4008.1	4095.2	4154.4	4228.4	4262.9	4207.0
47.5°	3449.1	3457.3	3486.9	3534.6	3606.9	3694.1	3840.4	3929.2	3998.2	4065.6	4029.4
50°	3286.4	3256.8	3261.7	3291.3	3350.5	3436.0	3541.2	3666.1	3745.0	3827.2	3835.5
52.5°	2872.1	3112.1	3054.6	3071.0	3102.2	3143.3	3253.5	3376.8	3473.8	3544.5	3615.2
55°	2410.1	2457.8	2919.7	2854.0	2873.7	2909.9	2960.8	3084.1	3177.9	3276.5	3375.1
57.5°	1869.2	2224.3	2242.4	2669.9	2660.0	2663.3	2706.0	2776.7	2870.4	2993.7	3077.6
60°	1453.3	1602.9	1893.9	2041.8	2416.7	2429.8	2454.5	2495.6	2576.1	2692.9	2826.0
62.5°	1282.3	1302.0	1405.6	1627.6	1870.9	2165.1	2217.8	2224.3	2260.5	2377.2	2531.8
65°	1126.1	1139.3	1170.5	1193.5	1397.4	1681.8	1935.0	1976.1	1999.1	2068.2	2199.7
67.5°	776.0	981.5	1009.4	1025.9	1045.6	1177.1	1491.1	1699.9	1726.2	1787.0	1902.1
70°	149.6	310.7	849.9	868.0	877.9	907.5	958.5	1290.5	1464.8	1522.3	1575.0
72.5°	101.9	120.0	144.7	342.0	723.4	739.8	751.3	794.1	1088.3	1256.0	1284.0
75°	74.0	82.2	97.0	120.0	148.0	481.7	596.8	618.1	639.5	882.8	1024.2
77.5°	52.6	59.2	65.8	77.3	90.4	116.7	167.7	462.0	483.3	494.8	698.7
80°	29.6	36.2	44.4	51.0	57.5	65.8	85.5	106.9	238.4	348.5	366.6
82.5°	16.4	19.7	23.0	27.9	31.2	39.5	47.7	57.5	75.6	111.8	236.7
85°	8.2	8.2	8.2	11.5	13.2	18.1	21.4	24.7	34.5	47.7	65.8
87.5°	4.9	4.9	6.6	6.6	6.6	8.2	8.2	8.2	9.9	14.8	21.4
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: P1214230

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	5477.8	5477.8	5477.8	5477.8	5477.8
2.5°	5499.2	5494.2	5494.2	5514.0	5509.0
5°	5489.3	5484.4	5482.7	5504.1	5494.2
7.5°	5481.1	5463.0	5458.1	5477.8	5469.6
10°	5448.2	5435.1	5443.3	5436.7	5433.4
12.5°	5392.3	5384.1	5349.6	5352.9	5380.8
15°	5292.0	5324.9	5265.7	5318.3	5329.8
17.5°	5107.9	5181.9	5239.4	5270.7	5275.6
20°	5190.1	5214.8	5185.2	5186.8	5206.5
22.5°	5083.2	5094.8	5103.0	5093.1	5135.9
25°	4912.3	4867.9	4963.2	4983.0	5052.0
27.5°	4859.7	4823.5	4867.9	4864.6	4922.1
30°	4816.9	4700.2	4719.9	4751.2	4821.9
32.5°	4756.1	4572.0	4552.2	4621.3	4700.2
35°	4649.2	4475.0	4428.9	4473.3	4591.7
37.5°	4558.8	4340.2	4248.1	4307.3	4461.8
40°	4424.0	4234.9	4091.9	4144.5	4327.0
42.5°	4262.9	4144.5	3924.2	3960.4	4169.2
45°	4100.1	3994.9	3761.5	3779.6	4027.8
47.5°	3934.1	3837.1	3592.1	3595.4	3847.0
50°	3771.3	3643.1	3440.9	3383.4	3654.6
52.5°	3559.3	3440.9	3288.0	3194.3	3472.1
55°	3358.7	3225.5	3113.7	2969.1	3265.0
57.5°	3163.1	3015.1	2939.5	2753.7	3029.9
60°	2895.1	2824.4	2712.6	2535.0	2817.8
62.5°	2620.5	2597.5	2484.1	2300.0	2556.4
65°	2300.0	2354.2	2237.5	2079.7	2285.2
67.5°	1997.5	2094.5	1966.2	1869.2	2023.8
70°	1675.2	1787.0	1714.7	1680.2	1745.9
72.5°	1357.9	1466.4	1473.0	1448.4	1469.7
75°	1048.9	1168.9	1234.6	1196.8	1201.8
77.5°	795.7	853.2	925.6	955.2	948.6
80°	491.6	591.8	651.0	711.9	690.5
82.5°	248.2	332.1	404.4	470.2	438.9
85°	103.6	133.2	185.8	245.0	235.1
87.5°	31.2	52.6	55.9	78.9	74.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)