

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: P1213528

Luminaire Tested: 4SNLED-LD5-76SL-RM-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213528
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-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

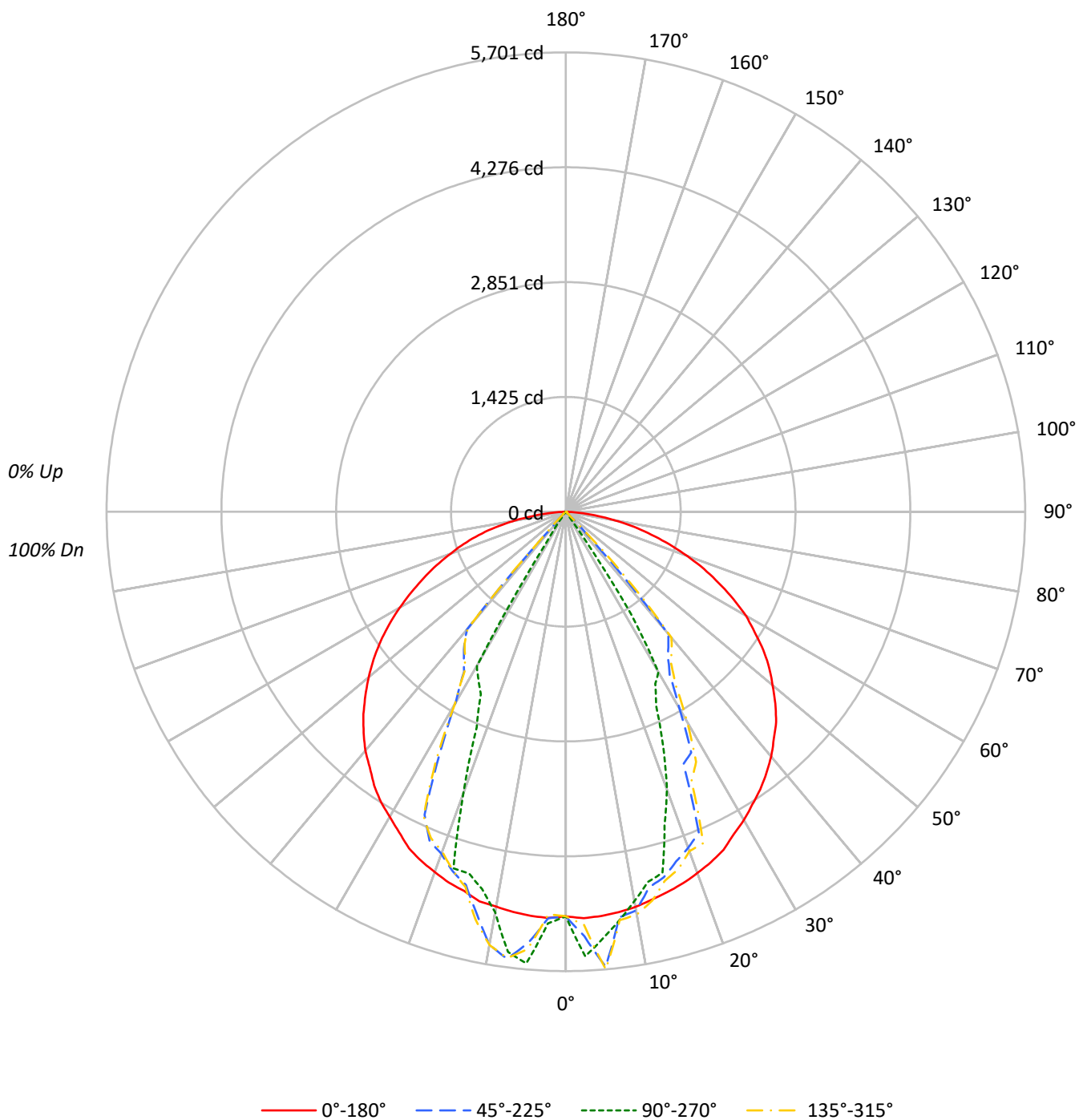
Lumens per Lamp: N/A
Luminaire Lumens: 7137.9 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	40567	40567	40567	40567
5°	40732	41723	40720	44183
10°	40635	37754	40610	38844
15°	40524	35239	40424	35330
20°	40571	27756	40455	28098
25°	40688	20087	40490	18955
30°	40502	17620	40074	16939
35°	40622	388	40027	471
40°	40762	84	39786	84
45°	40906	50	39370	37
50°	40594	39	38731	39
55°	40354	28	37875	28
60°	39592	29	36497	29
65°	37529	48	34855	32
70°	34815	52	33143	52
75°	30794	59	31300	59
80°	25015	67	26442	67
85°	14716	79	15030	79

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 44169 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.6	7.1
10°-20°	1373.8	19.2
20°-30°	1748.1	24.5
30°-40°	1476.7	20.7
40°-50°	965.4	13.5
50°-60°	608.3	8.5
60°-70°	323.8	4.5
70°-80°	118.0	1.7
80°-90°	20.3	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°	3625.5	50.8
0°-40°	5102.1	71.5
0°-60°	6675.8	93.5
0°-90°	7137.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7137.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5020	5020	5020	5020	5020	
5°	5035	5312	5034	5626	5035	479
15°	4884	4636	4872	4648	4884	1381
25°	4630	2647	4607	2498	4630	2129
35°	4208	50	4146	60	4208	2632
45°	3691	6	3553	4	3691	2839
55°	2992	3	2808	3	2992	2666
65°	2094	4	1945	3	2094	2074
75°	1101	4	1119	4	1101	1169
85°	215	4	220	4	215	272
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°	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0
2.5°	5048.6	5051.6	5053.1	5056.1	5060.7	5062.2	5065.2	5062.2	5062.2	5062.2	5062.2
5°	5035.0	5041.1	5045.6	5051.6	5062.2	5063.7	5075.7	5077.2	5083.3	5095.3	5104.3
7.5°	5012.4	5018.5	5027.5	5042.6	5057.6	5074.2	5095.3	5117.9	5149.5	5179.7	5217.3
10°	4979.3	4986.8	4997.4	5010.9	5084.8	5095.3	5142.0	5206.8	5224.9	5319.8	5390.6
12.5°	4931.1	4956.7	4983.8	4995.9	5066.7	5178.2	5334.9	5303.2	5268.6	5578.9	5574.4
15°	4884.4	4919.0	4905.5	5003.4	5068.2	5262.5	5196.2	5337.9	5597.0	5533.7	5536.7
17.5°	4834.7	4842.2	4917.5	4998.9	5114.9	5214.3	5295.7	5490.0	5541.3	5545.8	5490.0
20°	4771.4	4807.5	4917.5	4991.4	5187.2	5233.9	5410.2	5509.6	5488.5	5437.3	5342.4
22.5°	4706.6	4816.6	4928.1	5032.0	5169.1	5294.2	5381.6	5428.3	5318.3	5116.4	5007.9
25°	4629.8	4694.6	4840.7	4992.9	5164.6	5236.9	5288.1	5212.8	5069.7	4888.9	4706.6
27.5°	4510.7	4614.7	4801.5	4973.3	5128.5	5215.8	5133.0	4952.2	4721.7	4602.6	4519.8
30°	4418.8	4554.4	4708.1	4873.8	5035.0	5086.3	4875.3	4668.9	4510.7	4391.7	4373.6
32.5°	4307.4	4500.2	4646.3	4804.5	4940.1	4872.3	4667.4	4400.8	4269.7	4224.5	4242.6
35°	4207.9	4354.1	4545.4	4700.6	4798.5	4646.3	4322.4	4156.7	4093.4	4119.0	4085.9
37.5°	4088.9	4281.7	4458.0	4592.1	4559.0	4330.0	4055.8	3950.3	3957.8	3936.7	3873.5
40°	3965.4	4149.2	4333.0	4459.5	4343.5	3994.0	3811.7	3789.1	3793.6	3725.8	3635.4
42.5°	3820.7	3988.0	4171.8	4286.3	4036.2	3763.5	3639.9	3642.9	3603.8	3508.9	3460.6
45°	3691.2	3844.8	4036.2	4046.7	3739.4	3511.9	3475.7	3436.5	3349.2	3317.5	3281.4
47.5°	3525.4	3695.7	3853.9	3796.6	3448.6	3307.0	3279.9	3194.0	3150.3	3126.2	3096.1
50°	3349.2	3520.9	3665.5	3502.8	3174.4	3141.3	3052.4	2984.6	2954.4	2928.8	2901.7
52.5°	3181.9	3323.5	3471.2	3191.0	2963.5	2931.8	2830.9	2791.7	2761.6	2733.0	2726.9
55°	2992.1	3117.1	3218.1	2894.2	2761.6	2687.8	2615.4	2588.3	2559.7	2546.1	2568.7
57.5°	2776.7	2918.3	2903.2	2601.9	2543.1	2436.2	2409.0	2391.0	2369.9	2378.9	2190.6
60°	2582.3	2690.8	2617.0	2388.0	2288.5	2216.2	2192.1	2180.0	2192.1	2008.3	1765.7
62.5°	2342.8	2464.8	2315.6	2137.9	2032.4	1997.7	1976.7	1993.2	1817.0	1615.1	1556.3
65°	2094.2	2226.7	2006.8	1869.7	1803.4	1773.3	1771.8	1631.6	1458.4	1380.0	1380.0
67.5°	1854.6	1991.7	1708.5	1594.0	1568.4	1571.4	1484.0	1271.6	1223.4	1170.6	1018.5
70°	1600.0	1720.5	1411.7	1342.4	1327.3	1316.8	1104.3	1047.1	989.8	849.7	837.7
72.5°	1346.9	1405.7	1134.5	1117.9	1114.9	926.6	884.4	786.4	720.2	703.6	696.0
75°	1101.3	1083.2	896.4	911.5	768.4	702.1	634.3	577.0	568.0	562.0	140.1
77.5°	869.3	778.9	706.6	614.7	549.9	467.0	453.5	444.4	292.3	105.5	85.9
80°	632.8	504.7	470.1	399.2	340.5	326.9	334.5	102.4	81.4	67.8	58.8
82.5°	402.3	322.4	263.7	230.5	224.5	97.9	72.3	58.8	51.2	43.7	36.2
85°	215.4	143.1	132.6	111.5	66.3	45.2	37.7	28.6	24.1	19.6	18.1
87.5°	67.8	57.3	46.7	37.7	22.6	15.1	12.1	10.5	9.0	7.5	7.5
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):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0
2.5°	5059.1	5062.2	5060.7	5065.2	5065.2	5071.2	5075.7	5080.2	5089.3	5093.8	5128.5
5°	5123.9	5131.5	5154.1	5175.2	5200.8	5208.3	5252.0	5262.5	5313.8	5319.8	5488.5
7.5°	5268.6	5297.2	5351.4	5405.7	5459.9	5494.6	5554.8	5592.5	5633.2	5669.3	5803.4
10°	5443.3	5491.5	5544.3	5598.5	5630.1	5696.4	5732.6	5738.6	5728.1	5669.3	5452.4
12.5°	5615.1	5663.3	5640.7	5651.2	5688.9	5571.4	5588.0	5503.6	5562.3	5271.6	5056.1
15°	5591.0	5588.0	5532.2	5351.4	5381.6	5157.1	5066.7	4997.4	5053.1	5023.0	4989.8
17.5°	5518.7	5381.6	5285.1	5068.2	4976.3	4913.0	4914.5	4916.0	4888.9	4917.5	4833.2
20°	5212.8	5059.1	4916.0	4839.2	4812.1	4766.9	4789.5	4766.9	4768.4	4777.4	4647.8
22.5°	4806.0	4759.3	4676.5	4700.6	4691.5	4732.2	4702.1	4655.4	4670.4	4602.6	4504.7
25°	4641.8	4587.6	4584.6	4593.6	4580.0	4562.0	4534.9	4464.0	4459.5	4438.4	4393.2
27.5°	4476.1	4479.1	4488.1	4461.0	4412.8	4376.7	4336.0	4301.3	4314.9	4290.8	4229.0
30°	4361.6	4360.1	4305.8	4281.7	4192.9	4194.4	4183.8	4162.7	4149.2	4150.7	4111.5
32.5°	4198.9	4152.2	4090.4	4060.3	4052.7	4025.6	4004.5	4009.1	4019.6	3981.9	4022.6
35°	4031.6	3935.2	3926.2	3900.6	3876.5	3858.4	3865.9	3835.8	3834.3	3829.8	3498.3
37.5°	3807.2	3760.5	3755.9	3728.8	3712.3	3707.7	3679.1	3683.6	3697.2	3721.3	2983.1
40°	3621.9	3579.7	3569.1	3567.6	3531.5	3528.4	3536.0	3564.6	3584.2	3433.5	2842.9
42.5°	3423.0	3426.0	3392.9	3371.8	3376.3	3389.8	3426.0	3326.6	2882.1	2746.5	2598.9
45°	3252.7	3237.7	3219.6	3213.6	3252.7	3225.6	2827.9	2609.4	2556.7	2550.7	2136.4
47.5°	3075.0	3070.4	3062.9	3067.4	2844.5	2535.6	2445.2	2416.6	2425.6	2419.6	1835.0
50°	2895.7	2901.7	2901.7	2534.1	2326.2	2275.0	2282.5	2308.1	2148.4	2005.3	1710.0
52.5°	2740.5	2693.8	2308.1	2175.5	2128.8	2151.4	2097.2	1896.8	1752.2	1667.8	1581.9
55°	2452.7	2109.2	2023.4	2002.3	2018.8	1818.5	1694.9	1565.4	1527.7	1518.6	1468.9
57.5°	1929.9	1860.6	1868.2	1783.8	1592.5	1479.5	1429.8	1411.7	1395.1	1383.1	120.5
60°	1707.0	1726.6	1580.4	1399.6	1322.8	1307.7	1295.7	1279.1	1276.1	1255.0	76.8
62.5°	1562.3	1374.0	1247.5	1202.3	1184.2	1179.7	1157.1	1149.5	976.3	134.1	57.3
65°	1178.2	1101.3	1077.2	1066.7	1047.1	1047.1	869.3	137.1	111.5	96.4	51.2
67.5°	961.2	955.2	943.1	929.6	632.8	132.6	116.0	100.9	87.4	76.8	45.2
70°	813.6	810.5	738.2	135.6	113.0	99.4	87.4	78.3	72.3	64.8	40.7
72.5°	667.4	135.6	114.5	99.4	85.9	78.3	70.8	63.3	57.3	52.7	33.1
75°	104.0	91.9	81.4	73.8	67.8	60.3	54.2	49.7	48.2	42.2	22.6
77.5°	75.3	64.8	58.8	52.7	46.7	42.2	36.2	31.6	28.6	24.1	16.6
80°	52.7	46.7	42.2	34.7	30.1	25.6	22.6	19.6	18.1	15.1	7.5
82.5°	30.1	25.6	22.6	18.1	16.6	13.6	12.1	10.5	10.5	7.5	7.5
85°	13.6	13.6	10.5	9.0	7.5	7.5	7.5	6.0	6.0	4.5	4.5
87.5°	6.0	6.0	6.0	6.0	6.0	4.5	4.5	4.5	4.5	4.5	3.0
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°	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0
2.5°	5176.7	5196.2	5233.9	5273.1	5229.4	5386.1	5374.0	5426.8	5455.4	5468.9	5500.6
5°	5637.7	5725.1	5753.7	5667.8	5618.1	5566.9	5450.9	5363.5	5374.0	5345.4	5241.4
7.5°	5628.6	5441.8	5190.2	5075.7	5066.7	5053.1	5089.3	5110.4	5113.4	5111.9	5108.9
10°	5152.6	5056.1	5039.6	5024.5	5030.5	4974.8	4949.2	4876.8	4916.0	4894.9	4902.5
12.5°	5007.9	4985.3	4896.4	4772.9	4846.7	4791.0	4759.3	4780.4	4756.3	4733.7	4726.2
15°	4922.0	4775.9	4726.2	4696.1	4675.0	4662.9	4673.5	4649.4	4641.8	4637.3	4647.8
17.5°	4744.3	4685.5	4631.3	4551.4	4552.9	4548.4	4578.5	4623.7	4626.8	4394.7	4185.3
20°	4604.2	4555.9	4486.6	4436.9	4504.7	4384.2	3918.7	3697.2	3662.5	3662.5	3668.6
22.5°	4492.7	4385.7	4390.2	4311.9	3677.6	3548.0	3551.0	3564.6	3502.8	3291.9	3269.3
25°	4340.5	4323.9	3994.0	3451.6	3456.1	3355.2	3200.0	2981.6	2745.0	2745.0	2705.8
27.5°	4226.0	3875.0	3392.9	3370.3	3031.3	2817.3	2684.8	2484.4	2457.3	2431.6	2434.7
30°	4128.1	3278.4	3290.4	2817.3	2567.2	2389.5	2378.9	2345.8	2329.2	2324.7	2308.1
32.5°	3263.3	3192.5	2754.1	2398.5	2300.6	2271.9	2258.4	2220.7	2219.2	2190.6	1991.7
35°	3059.9	2802.3	2305.1	2208.7	2180.0	2152.9	2130.3	1429.8	168.7	67.8	58.8
37.5°	2827.9	2341.2	2131.8	2088.1	2061.0	1523.2	152.2	52.7	37.7	27.1	24.1
40°	2397.0	2091.2	2024.9	1976.7	815.1	52.7	33.1	25.6	15.1	13.6	12.1
42.5°	2021.9	1970.6	1899.8	578.5	60.3	25.6	16.6	12.1	10.5	10.5	9.0
45°	1892.3	1847.1	765.4	57.3	37.7	12.1	10.5	10.5	9.0	6.0	6.0
47.5°	1771.8	1559.3	69.3	36.2	24.1	10.5	9.0	6.0	6.0	6.0	4.5
50°	1643.7	85.9	48.2	27.1	15.1	6.0	6.0	6.0	6.0	4.5	4.5
52.5°	307.3	60.3	39.2	24.1	7.5	6.0	6.0	6.0	4.5	4.5	4.5
55°	72.3	48.2	36.2	21.1	6.0	6.0	6.0	4.5	4.5	4.5	3.0
57.5°	54.2	36.2	28.6	19.6	6.0	4.5	4.5	4.5	4.5	4.5	3.0
60°	45.2	25.6	22.6	18.1	4.5	4.5	4.5	4.5	4.5	4.5	3.0
62.5°	31.6	21.1	16.6	13.6	4.5	4.5	4.5	4.5	4.5	4.5	4.5
65°	25.6	16.6	13.6	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
67.5°	22.6	13.6	9.0	3.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5
70°	18.1	4.5	4.5	3.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5
72.5°	15.1	4.5	3.0	3.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5
75°	15.1	7.5	3.0	3.0	4.5	4.5	6.0	6.0	4.5	4.5	4.5
77.5°	10.5	7.5	3.0	3.0	4.5	4.5	6.0	6.0	4.5	4.5	4.5
80°	6.0	7.5	3.0	4.5	4.5	9.0	10.5	6.0	4.5	4.5	4.5
82.5°	6.0	7.5	9.0	9.0	4.5	7.5	9.0	7.5	6.0	4.5	4.5
85°	6.0	4.5	6.0	7.5	4.5	7.5	7.5	6.0	6.0	4.5	4.5
87.5°	3.0	4.5	4.5	6.0	6.0	6.0	7.5	6.0	6.0	6.0	4.5
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: P1213528

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0
2.5°	5515.6	5521.7	5426.8	5393.6	5422.2	5416.2	5390.6	5295.7	5285.1	5221.9	5130.0
5°	5271.6	5312.3	5262.5	5348.4	5307.7	5348.4	5472.0	5529.2	5622.6	5679.9	5701.0
7.5°	5101.3	5110.4	5110.4	5117.9	5125.4	5126.9	5117.9	5111.9	5086.3	5054.6	5111.9
10°	4894.9	4905.5	4923.6	4920.5	4919.0	4950.7	4958.2	5023.0	5020.0	5032.0	5075.7
12.5°	4788.0	4706.6	4780.4	4760.8	4788.0	4745.8	4824.1	4810.6	4815.1	4851.2	4944.6
15°	4610.2	4635.8	4653.9	4653.9	4664.4	4655.4	4646.3	4708.1	4745.8	4747.3	4741.3
17.5°	4268.2	4073.8	4272.7	4221.5	4629.8	4640.3	4605.7	4577.0	4577.0	4599.6	4647.8
20°	3664.0	3668.6	3670.1	3689.7	3713.8	3712.3	3713.8	4307.4	4589.1	4524.3	4480.6
22.5°	3212.1	3156.3	3260.3	3252.7	3382.3	3525.4	3662.5	3649.0	3658.0	4076.8	4453.5
25°	2574.8	2647.1	2588.3	2613.9	2760.1	2930.3	3035.8	3311.5	3611.3	3590.2	3688.1
27.5°	2424.1	2404.5	2431.6	2431.6	2451.2	2473.8	2532.6	2687.8	2954.4	3234.7	3499.8
30°	2281.0	2297.6	2300.6	2327.7	2342.8	2357.8	2366.9	2425.6	2485.9	2680.2	3007.2
32.5°	1713.0	1502.1	1976.7	2104.7	2213.2	2238.8	2256.9	2281.0	2324.7	2353.3	2517.5
35°	49.7	49.7	52.7	60.3	76.8	518.3	1973.6	2175.5	2204.1	2240.3	2270.4
37.5°	24.1	18.1	21.1	22.6	27.1	37.7	54.2	168.7	1878.7	2124.3	2157.4
40°	10.5	10.5	10.5	10.5	12.1	15.1	22.6	37.7	57.3	1511.1	2038.4
42.5°	9.0	9.0	9.0	9.0	9.0	9.0	10.5	13.6	27.1	64.8	1069.7
45°	6.0	6.0	4.5	6.0	6.0	7.5	9.0	9.0	12.1	40.7	73.8
47.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	7.5	9.0	27.1	39.2
50°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	21.1	27.1
52.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	9.0	24.1
55°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	4.5	6.0	21.1
57.5°	3.0	3.0	3.0	3.0	3.0	4.5	3.0	3.0	4.5	4.5	19.6
60°	3.0	3.0	3.0	3.0	3.0	4.5	4.5	4.5	4.5	4.5	18.1
62.5°	4.5	4.5	3.0	4.5	3.0	3.0	4.5	4.5	4.5	4.5	12.1
65°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	3.0	4.5
67.5°	4.5	4.5	4.5	4.5	3.0	4.5	3.0	4.5	4.5	3.0	3.0
70°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	3.0	3.0	3.0	3.0
72.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	3.0	3.0	3.0	3.0
75°	4.5	4.5	4.5	4.5	4.5	4.5	6.0	6.0	3.0	3.0	3.0
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	7.5	9.0	7.5	7.5	3.0
80°	4.5	4.5	4.5	4.5	4.5	4.5	7.5	7.5	7.5	7.5	10.5
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	6.0	6.0	6.0	6.0	7.5
85°	4.5	4.5	4.5	4.5	4.5	4.5	6.0	6.0	6.0	4.5	6.0
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.0	4.5	4.5	4.5
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: P1213528

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0
2.5°	5137.5	5086.3	5069.7	5035.0	5032.0	5035.0	5027.5	5017.0	5023.0	5012.4	5003.4
5°	5713.0	5575.9	5487.0	5368.0	5203.8	5167.6	5158.6	5107.4	5089.3	5083.3	5059.1
7.5°	5247.5	5497.6	5648.2	5699.4	5506.6	5461.4	5408.7	5366.5	5325.8	5249.0	5202.3
10°	5041.1	5053.1	5197.8	5366.5	5640.7	5678.4	5707.0	5615.1	5589.5	5393.6	5351.4
12.5°	4992.9	4994.4	5010.9	5113.4	5328.8	5352.9	5453.9	5508.1	5574.4	5612.1	5581.9
15°	4772.9	4894.9	4985.3	4994.4	5013.9	5056.1	5086.3	5274.6	5354.4	5568.4	5556.3
17.5°	4670.4	4709.6	4840.7	4947.7	4929.6	4914.5	4938.6	4964.2	5041.1	5255.0	5252.0
20°	4500.2	4625.2	4696.1	4807.5	4908.5	4913.0	4885.9	4870.8	4840.7	4875.3	4907.0
22.5°	4427.9	4447.5	4580.0	4658.4	4772.9	4813.6	4819.6	4821.1	4804.5	4786.5	4777.4
25°	4420.4	4358.6	4426.4	4524.3	4608.7	4652.4	4702.1	4718.7	4712.6	4712.6	4703.6
27.5°	3617.3	4339.0	4302.8	4367.6	4470.1	4500.2	4525.8	4577.0	4608.7	4631.3	4641.8
30°	3445.6	3575.2	4206.4	4215.5	4319.4	4316.4	4345.0	4387.2	4427.9	4480.6	4494.2
32.5°	3047.8	3365.7	3850.9	4063.3	4171.8	4182.3	4197.4	4209.4	4247.1	4305.8	4357.1
35°	2442.2	3065.9	3299.4	3991.0	4010.6	4031.6	4040.7	4069.3	4081.4	4105.5	4150.7
37.5°	2210.2	2534.1	3165.4	3451.6	3825.2	3843.3	3891.5	3903.6	3923.2	3942.8	3977.4
40°	2076.1	2165.0	2635.0	3082.5	3676.1	3688.1	3704.7	3734.8	3736.4	3759.0	3790.6
42.5°	1969.1	2026.4	2163.5	2943.9	3570.6	3569.1	3530.0	3549.5	3558.6	3582.7	3626.4
45°	1572.9	1901.3	1988.7	2404.5	2842.9	3047.8	3441.1	3376.3	3374.8	3383.8	3430.5
47.5°	79.8	1788.3	1850.1	1984.2	2684.8	2692.3	2743.5	3174.4	3240.7	3219.6	3224.1
50°	54.2	123.5	1723.5	1785.3	2314.1	2500.9	2538.6	2558.2	2806.8	3084.0	3038.8
52.5°	42.2	70.8	1056.1	1657.3	1880.2	2017.3	2259.9	2398.5	2413.6	2525.1	2903.2
55°	37.7	54.2	114.5	1529.2	1598.5	1628.6	1770.2	2012.8	2208.7	2267.4	2271.9
57.5°	33.1	49.7	78.3	691.5	1453.9	1459.9	1484.0	1568.4	1744.6	1905.8	2088.1
60°	30.1	43.7	61.8	119.0	1321.3	1336.4	1340.9	1363.5	1384.6	1494.5	1704.0
62.5°	18.1	34.7	54.2	85.9	1045.6	1200.8	1199.2	1214.3	1233.9	1246.0	1288.1
65°	15.1	27.1	46.7	72.3	128.1	159.7	970.2	1078.7	1090.8	1107.3	1114.9
67.5°	13.6	24.1	34.7	57.3	96.4	110.0	126.6	156.7	855.7	964.2	979.3
70°	12.1	16.6	28.6	48.2	78.3	84.4	94.9	108.5	128.1	158.2	774.4
72.5°	7.5	12.1	19.6	34.7	60.3	67.8	73.8	82.9	91.9	110.0	126.6
75°	3.0	9.0	16.6	25.6	46.7	51.2	55.7	61.8	69.3	81.4	90.4
77.5°	3.0	7.5	13.6	18.1	30.1	34.7	40.7	45.2	51.2	57.3	66.3
80°	10.5	6.0	9.0	13.6	21.1	22.6	25.6	28.6	33.1	37.7	43.7
82.5°	7.5	9.0	10.5	9.0	10.5	13.6	15.1	18.1	19.6	22.6	24.1
85°	6.0	6.0	7.5	7.5	7.5	7.5	7.5	7.5	9.0	10.5	13.6
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.0	6.0
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: P1213528

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0
2.5°	5003.4	5000.4	4991.4	4991.4	4989.8	4995.9	5000.4	5004.9	5003.4	5012.4	5003.4
5°	5041.1	5033.5	5020.0	5007.9	5003.4	5006.4	5001.9	5006.4	5000.4	5007.9	4994.4
7.5°	5145.0	5119.4	5066.7	5045.6	5018.5	5017.0	5003.4	5000.4	4991.4	4991.4	4974.8
10°	5328.8	5205.3	5190.2	5126.9	5104.3	4994.4	5018.5	4977.8	4973.3	4953.7	4946.2
12.5°	5479.5	5383.1	5354.4	5298.7	5235.4	5012.4	5062.2	4974.8	4970.3	4931.1	4890.4
15°	5482.5	5538.2	5459.9	5306.2	5292.7	5139.0	5038.1	5007.9	4968.8	4851.2	4870.8
17.5°	5306.2	5434.3	5472.0	5438.8	5342.4	5238.4	5096.8	5036.5	4919.0	4866.3	4830.1
20°	5020.0	5149.5	5310.7	5321.3	5381.6	5307.7	5122.4	5024.5	4882.9	4791.0	4760.8
22.5°	4792.5	4887.4	5072.7	5158.6	5232.4	5258.0	5140.5	4995.9	4819.6	4730.7	4712.6
25°	4672.0	4693.0	4748.8	4849.7	5012.4	5130.0	5146.5	4992.9	4901.0	4706.6	4604.2
27.5°	4628.3	4610.2	4587.6	4638.8	4760.8	4904.0	4998.9	5024.5	4795.5	4610.2	4507.7
30°	4516.8	4527.3	4492.7	4474.6	4554.4	4702.1	4870.8	4913.0	4736.7	4545.4	4427.9
32.5°	4379.7	4397.8	4403.8	4372.1	4355.6	4458.0	4640.3	4741.3	4732.2	4453.5	4322.4
35°	4207.9	4259.1	4272.7	4274.2	4247.1	4230.5	4336.0	4545.4	4625.2	4411.3	4221.5
37.5°	4027.1	4042.2	4116.0	4135.6	4135.6	4085.9	4164.2	4331.5	4442.9	4316.4	4097.9
40°	3801.1	3849.4	3918.7	3953.3	3988.0	3992.5	3948.8	4066.3	4250.1	4218.5	3981.9
42.5°	3636.9	3668.6	3710.7	3757.4	3828.3	3846.3	3801.1	3822.2	4013.6	4096.4	3831.3
45°	3445.6	3487.8	3499.8	3551.0	3624.9	3677.6	3676.1	3632.4	3786.1	3888.5	3721.3
47.5°	3249.7	3290.4	3311.5	3337.1	3391.3	3459.1	3496.8	3477.2	3507.4	3707.7	3575.2
50°	3047.8	3070.4	3112.6	3141.3	3177.4	3216.6	3307.0	3325.1	3282.9	3442.6	3413.9
52.5°	2856.5	2864.0	2892.7	2921.3	2969.5	2998.1	3070.4	3124.7	3121.7	3168.4	3234.7
55°	2707.4	2674.2	2680.2	2702.8	2734.5	2778.2	2818.8	2903.2	2931.8	2940.9	3046.3
57.5°	2115.3	2455.8	2485.9	2484.4	2522.0	2541.6	2579.3	2635.0	2737.5	2714.9	2832.4
60°	1922.4	1960.1	2244.8	2278.0	2291.5	2309.6	2354.8	2406.0	2481.4	2529.6	2580.8
62.5°	1465.9	1694.9	1780.8	2032.4	2071.6	2082.1	2112.2	2136.4	2214.7	2324.7	2303.6
65°	1134.5	1232.4	1494.5	1597.0	1810.9	1838.0	1880.2	1905.8	1928.4	2055.0	2061.0
67.5°	980.8	995.9	1066.7	1264.0	1399.6	1609.0	1634.7	1657.3	1691.9	1782.3	1838.0
70°	837.7	855.7	875.3	891.9	1068.2	1206.8	1401.1	1408.7	1431.3	1491.5	1618.1
72.5°	158.2	715.6	727.7	738.2	757.8	849.7	1035.0	1185.7	1194.7	1223.4	1339.4
75°	107.0	125.0	171.8	590.6	610.2	616.2	647.8	836.2	974.8	980.8	1032.0
77.5°	76.8	85.9	104.0	123.5	314.9	473.1	480.6	515.3	658.4	762.3	771.4
80°	52.7	58.8	69.3	78.3	96.4	126.6	349.5	360.1	378.2	521.3	548.4
82.5°	30.1	34.7	40.7	49.7	57.3	72.3	93.4	120.5	245.6	262.1	348.0
85°	15.1	16.6	19.6	24.1	28.6	34.7	46.7	57.3	78.3	141.6	146.1
87.5°	7.5	7.5	7.5	7.5	12.1	13.6	16.6	21.1	27.1	40.7	52.7
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: P1213528

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0
2.5°	5004.9	5026.0	5044.1	5048.6	5048.6	5051.6	5056.1	5059.1	5062.2	5065.2	5062.2
5°	4995.9	5018.5	5033.5	5038.1	5038.1	5047.1	5054.6	5063.7	5068.2	5068.2	5065.2
7.5°	4973.3	4989.8	5009.4	5021.5	5023.0	5038.1	5051.6	5050.1	5056.1	5059.1	5066.7
10°	4943.1	4943.1	4976.3	4985.3	4992.9	5009.4	5013.9	5023.0	5044.1	5047.1	5066.7
12.5°	4928.1	4913.0	4952.2	4956.7	4982.3	4961.2	4988.3	4997.4	4976.3	5004.9	4967.2
15°	4860.3	4878.4	4872.3	4885.9	4931.1	4907.0	4980.8	4956.7	5010.9	4946.2	5060.7
17.5°	4804.5	4801.5	4825.6	4837.7	4846.7	4897.9	4917.5	4944.6	4965.7	4947.7	4992.9
20°	4763.9	4739.7	4757.8	4771.4	4803.0	4842.2	4854.3	4813.6	4884.4	5004.9	5033.5
22.5°	4687.0	4670.4	4691.5	4691.5	4739.7	4733.7	4778.9	4753.3	4819.6	4959.7	5105.9
25°	4583.1	4584.6	4607.2	4634.3	4643.3	4711.1	4735.2	4768.4	4851.2	5018.5	5107.4
27.5°	4477.6	4468.6	4482.1	4537.9	4584.6	4634.3	4641.8	4754.8	4867.8	4982.3	5060.7
30°	4372.1	4363.1	4372.1	4412.8	4468.6	4501.7	4584.6	4735.2	4840.7	4919.0	4992.9
32.5°	4259.1	4250.1	4271.2	4301.3	4399.3	4403.8	4568.0	4709.6	4792.5	4849.7	4836.2
35°	4138.6	4126.6	4146.2	4192.9	4283.3	4316.4	4488.1	4593.6	4687.0	4714.1	4650.9
37.5°	3994.0	3972.9	3997.0	4061.8	4156.7	4253.1	4396.2	4518.3	4568.0	4495.7	4420.4
40°	3843.3	3828.3	3870.4	3903.6	4015.1	4149.2	4313.4	4399.3	4367.6	4284.8	4201.9
42.5°	3709.2	3677.6	3715.3	3778.5	3905.1	4057.3	4189.8	4238.1	4162.7	4040.7	3944.3
45°	3545.0	3507.4	3552.6	3636.9	3772.5	3945.8	4049.7	4033.2	3905.1	3799.6	3667.1
47.5°	3373.3	3328.1	3373.3	3474.2	3626.4	3810.2	3885.5	3810.2	3649.0	3516.4	3409.4
50°	3204.5	3151.8	3195.5	3347.7	3496.8	3638.4	3636.9	3490.8	3394.4	3249.7	3156.3
52.5°	3037.3	2962.0	3005.7	3171.4	3320.5	3481.7	3362.7	3227.1	3111.1	2984.6	2954.4
55°	2830.9	2749.5	2808.3	3049.3	3163.9	3258.8	3068.9	2949.9	2835.4	2772.1	2734.5
57.5°	2635.0	2546.1	2597.4	2882.1	2966.5	2990.6	2815.8	2647.1	2579.3	2558.2	2504.0
60°	2433.2	2332.2	2380.4	2708.9	2767.6	2669.7	2497.9	2366.9	2353.3	2311.1	2268.9
62.5°	2240.3	2128.8	2159.0	2493.4	2520.5	2342.8	2184.6	2149.9	2116.8	2074.6	2052.0
65°	2018.8	1902.8	1945.0	2264.4	2238.8	2009.8	1920.9	1913.4	1869.7	1835.0	1868.2
67.5°	1815.4	1678.3	1737.1	2014.3	1898.3	1711.5	1675.3	1657.3	1622.6	1642.2	1294.2
70°	1592.5	1443.3	1523.2	1744.6	1572.9	1449.3	1435.8	1408.7	1410.2	1120.9	944.6
72.5°	1343.9	1214.3	1330.3	1449.3	1244.4	1208.3	1188.7	1185.7	956.7	777.4	733.7
75°	1125.4	994.4	1119.4	1164.6	991.3	967.2	965.7	798.5	628.3	599.6	586.1
77.5°	878.3	777.4	896.4	828.6	760.8	733.7	658.4	494.2	473.1	453.5	170.2
80°	592.1	599.6	668.9	571.0	542.4	462.5	364.6	349.5	301.3	120.5	94.9
82.5°	360.1	452.0	426.4	357.1	349.5	251.6	230.5	117.5	87.4	69.3	60.3
85°	186.8	229.0	220.0	194.4	144.6	129.6	72.3	55.7	45.2	34.7	28.6
87.5°	63.3	84.4	81.4	64.8	49.7	39.2	25.6	21.1	15.1	12.1	10.5
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: P1213528

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0
2.5°	5059.1	5059.1	5056.1	5059.1	5060.7	5057.6	5057.6	5060.7	5062.2	5063.7	5071.2
5°	5066.7	5069.7	5074.2	5083.3	5084.8	5102.8	5110.4	5114.9	5119.4	5120.9	5110.4
7.5°	5083.3	5093.8	5102.8	5101.3	5090.8	5062.2	5053.1	5045.6	5059.1	5093.8	5134.5
10°	5098.3	5050.1	4959.7	5083.3	5045.6	5080.2	5182.7	5205.3	5274.6	5372.5	5401.1
12.5°	4994.4	5126.9	5155.6	5017.0	5273.1	5178.2	5291.2	5390.6	5419.2	5518.7	5458.4
15°	5105.9	5170.6	5214.3	5352.9	5337.9	5419.2	5450.9	5431.3	5435.8	5461.4	5529.2
17.5°	5104.3	5233.9	5262.5	5355.9	5419.2	5420.7	5411.7	5402.7	5426.8	5446.3	5405.7
20°	5191.7	5233.9	5289.7	5327.3	5339.4	5354.4	5383.1	5360.5	5315.3	5271.6	5253.5
22.5°	5148.0	5243.0	5291.2	5297.2	5289.7	5243.0	5200.8	5137.5	5116.4	5093.8	5101.3
25°	5157.1	5200.8	5194.7	5170.6	5139.0	5051.6	5030.5	5003.4	4962.7	4864.8	4775.9
27.5°	5092.3	5069.7	5042.6	4983.8	4926.6	4879.9	4827.1	4739.7	4667.4	4562.0	4522.8
30°	4983.8	4893.4	4827.1	4792.5	4736.7	4658.4	4578.5	4471.6	4379.7	4358.6	4339.0
32.5°	4775.9	4687.0	4632.8	4548.4	4453.5	4360.1	4268.2	4226.0	4206.4	4209.4	4191.3
35°	4563.5	4485.1	4403.8	4277.2	4206.4	4113.0	4079.9	4070.8	4052.7	4033.2	4012.1
37.5°	4337.5	4245.6	4123.6	4048.2	3977.4	3939.7	3923.2	3909.6	3878.0	3843.3	3819.2
40°	4119.0	3953.3	3885.5	3811.7	3790.6	3774.0	3749.9	3716.8	3673.1	3667.1	3656.5
42.5°	3826.8	3707.7	3649.0	3633.9	3608.3	3579.7	3558.6	3522.4	3504.3	3516.4	3525.4
45°	3549.5	3489.3	3469.7	3451.6	3403.4	3362.7	3349.2	3337.1	3352.2	3418.5	3260.3
47.5°	3325.1	3301.0	3276.8	3246.7	3201.5	3171.4	3184.9	3197.0	3210.6	2723.9	2485.9
50°	3130.7	3097.6	3059.9	3026.7	2999.6	2996.6	3067.4	2855.0	2391.0	2378.9	2137.9
52.5°	2918.3	2868.6	2846.0	2826.4	2838.4	2883.6	2386.4	2214.7	2124.3	1845.6	1722.0
55°	2689.3	2645.6	2645.6	2663.7	2598.9	2106.2	2080.6	1798.9	1628.6	1580.4	1560.8
57.5°	2460.3	2455.8	2481.4	2268.9	1911.9	1833.5	1541.2	1479.5	1452.4	1446.3	1414.7
60°	2250.9	2293.0	1919.4	1765.7	1535.2	1384.6	1342.4	1334.8	1306.2	1295.7	1267.0
62.5°	2083.6	1728.1	1609.0	1313.8	1236.9	1217.3	1194.7	1184.2	1158.6	1023.0	299.8
65°	1505.1	1422.2	1154.1	1104.3	1098.3	1069.7	1060.6	953.7	224.5	150.7	128.1
67.5°	1136.0	1007.9	973.3	964.2	935.6	878.3	260.6	149.2	128.1	111.5	97.9
70°	872.3	849.7	824.1	803.0	236.5	147.6	128.1	108.5	93.4	82.9	75.3
72.5°	714.1	699.1	406.8	155.2	126.6	107.0	94.9	82.9	72.3	66.3	60.3
75°	558.9	155.2	128.1	107.0	91.9	78.3	69.3	61.8	55.7	51.2	46.7
77.5°	126.6	102.4	87.4	73.8	66.3	58.8	52.7	45.2	40.7	36.2	30.1
80°	78.3	67.8	57.3	52.7	45.2	37.7	33.1	30.1	24.1	22.6	19.6
82.5°	51.2	40.7	36.2	30.1	24.1	22.6	19.6	15.1	13.6	12.1	10.5
85°	22.6	19.6	16.6	13.6	10.5	9.0	7.5	6.0	6.0	6.0	6.0
87.5°	7.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	3.0	3.0
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: P1213528

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0
2.5°	5074.2	5101.3	5126.9	5119.4	5092.3	5050.1	5038.1	5021.5	5033.5	5059.1	5069.7
5°	5110.4	5095.3	5149.5	5229.4	5359.0	5371.0	5461.4	5482.5	5554.8	5600.0	5598.5
7.5°	5161.6	5375.5	5464.4	5560.8	5604.5	5594.0	5607.5	5597.0	5580.4	5572.9	5563.9
10°	5422.2	5584.9	5618.1	5618.1	5550.3	5458.4	5419.2	5351.4	5215.8	5218.8	5196.2
12.5°	5574.4	5631.7	5553.3	5487.0	5214.3	5108.9	4994.4	4940.1	4908.5	4860.3	4878.4
15°	5494.6	5413.2	5366.5	5152.6	4985.3	4795.5	4798.5	4765.4	4730.7	4733.7	4711.1
17.5°	5377.0	5312.3	4980.8	4833.2	4751.8	4678.0	4664.4	4620.7	4598.1	4590.6	4589.1
20°	5215.8	4982.3	4735.2	4699.1	4601.1	4516.8	4503.2	4516.8	4586.1	4462.5	4043.7
22.5°	5027.5	4691.5	4619.2	4516.8	4450.5	4417.3	4500.2	4123.6	3554.1	3623.4	3549.5
25°	4708.1	4562.0	4438.4	4360.1	4352.6	4149.2	3457.6	3385.3	3019.2	2823.4	2603.4
27.5°	4474.6	4411.3	4281.7	4268.2	4170.3	3392.9	3032.8	2635.0	2488.9	2466.3	2418.1
30°	4333.0	4242.6	4164.2	3822.2	3328.1	2731.5	2433.2	2377.4	2351.8	2324.7	2282.5
32.5°	4162.7	4076.8	4114.5	3213.6	2653.1	2351.8	2291.5	2250.9	2204.1	2186.1	2033.9
35°	3989.5	3950.3	3215.1	2701.3	2281.0	2208.7	2163.5	2121.3	1687.4	408.3	138.6
37.5°	3804.2	3795.1	2889.6	2241.8	2136.4	2068.6	1940.5	400.8	94.9	64.8	48.2
40°	3659.5	2891.2	2284.0	2101.7	2015.8	1908.9	268.2	66.3	42.2	25.6	16.6
42.5°	3563.1	2600.4	2044.4	1972.1	1785.3	197.4	67.8	28.6	16.6	13.6	10.5
45°	2746.5	2053.5	1910.4	1835.0	226.0	67.8	39.2	13.6	10.5	9.0	6.0
47.5°	2534.1	1865.2	1780.8	400.8	75.3	36.2	27.1	9.0	6.0	6.0	6.0
50°	1919.4	1723.5	1417.7	97.9	48.2	25.6	19.6	6.0	6.0	6.0	4.5
52.5°	1682.9	1591.0	152.2	64.8	37.7	19.6	12.1	4.5	4.5	4.5	4.5
55°	1538.2	1009.4	90.4	49.7	31.6	18.1	7.5	4.5	4.5	4.5	3.0
57.5°	1407.2	135.6	66.3	42.2	28.6	16.6	4.5	4.5	4.5	4.5	3.0
60°	1193.2	97.9	54.2	37.7	27.1	15.1	4.5	4.5	4.5	4.5	4.5
62.5°	155.2	76.8	46.7	33.1	19.6	12.1	3.0	4.5	4.5	4.5	4.5
65°	113.0	60.3	42.2	22.6	12.1	4.5	3.0	4.5	4.5	4.5	4.5
67.5°	87.4	49.7	31.6	19.6	10.5	3.0	3.0	4.5	4.5	4.5	4.5
70°	69.3	42.2	25.6	16.6	9.0	3.0	3.0	4.5	4.5	4.5	4.5
72.5°	54.2	30.1	18.1	9.0	6.0	3.0	3.0	4.5	4.5	4.5	4.5
75°	40.7	24.1	13.6	7.5	3.0	3.0	3.0	4.5	4.5	4.5	4.5
77.5°	27.1	15.1	10.5	6.0	6.0	6.0	7.5	7.5	4.5	4.5	4.5
80°	18.1	10.5	7.5	7.5	7.5	6.0	7.5	7.5	4.5	7.5	4.5
82.5°	9.0	7.5	7.5	6.0	6.0	4.5	6.0	6.0	6.0	6.0	4.5
85°	6.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.0	6.0	4.5
87.5°	3.0	3.0	3.0	3.0	4.5	4.5	4.5	4.5	6.0	6.0	4.5
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: P1213528

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0
2.5°	5056.1	5060.7	5048.6	5113.4	5080.2	5083.3	5096.8	5062.2	5069.7	5045.6	5029.0
5°	5604.5	5613.6	5622.6	5625.6	5631.7	5639.2	5630.1	5625.6	5616.6	5586.5	5554.8
7.5°	5518.7	5508.1	5503.6	5509.6	5520.2	5524.7	5517.2	5527.7	5566.9	5583.4	5594.0
10°	5066.7	5018.5	5051.6	5047.1	5009.4	5136.0	5101.3	5120.9	5134.5	5273.1	5357.5
12.5°	4851.2	4881.4	4824.1	4795.5	4833.2	4858.8	4884.4	4830.1	4905.5	4870.8	4982.3
15°	4670.4	4652.4	4646.3	4647.8	4640.3	4676.5	4685.5	4697.6	4708.1	4754.8	4772.9
17.5°	4589.1	4619.2	4631.3	4640.3	4625.2	4608.7	4592.1	4568.0	4575.5	4563.5	4598.1
20°	3762.0	3661.0	3655.0	3713.8	3649.0	3685.1	3772.5	4357.1	4337.5	4565.0	4488.1
22.5°	3139.7	3044.8	2963.5	2892.7	2993.6	3035.8	3198.5	3382.3	3680.6	3633.9	3957.8
25°	2564.2	2529.6	2508.5	2497.9	2505.5	2502.5	2538.6	2624.5	2760.1	3079.5	3492.3
27.5°	2398.5	2381.9	2374.4	2350.3	2368.4	2362.3	2391.0	2409.0	2449.7	2481.4	2615.4
30°	2267.4	2247.8	2234.3	2208.7	2226.7	2228.3	2237.3	2284.0	2300.6	2327.7	2369.9
32.5°	828.6	488.1	458.0	435.4	476.1	620.7	1089.3	1904.3	2172.5	2193.6	2241.8
35°	81.4	67.8	60.3	60.3	61.8	67.8	90.4	238.0	435.4	1682.9	2106.2
37.5°	31.6	27.1	22.6	21.1	22.6	25.6	34.7	45.2	61.8	128.1	571.0
40°	13.6	12.1	10.5	10.5	10.5	10.5	12.1	15.1	22.6	42.2	66.3
42.5°	9.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	10.5	13.6	27.1
45°	6.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.0	7.5	12.1
47.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.0
50°	4.5	4.5	4.5	4.5	3.0	4.5	3.0	4.5	4.5	4.5	4.5
52.5°	4.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	4.5
55°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5
57.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
60°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
62.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	4.5	3.0
65°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	3.0
67.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
70°	4.5	4.5	3.0	4.5	3.0	3.0	4.5	4.5	4.5	3.0	3.0
72.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	9.0	9.0	6.0
75°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	7.5	9.0	7.5
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	7.5	7.5	7.5
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.0	6.0	6.0
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.0	6.0	6.0
85°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
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: P1213528

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0
2.5°	5000.4	4998.9	5030.5	5054.6	5045.6	5054.6	5065.2	5066.7	5069.7	5057.6	5053.1
5°	5494.6	5447.8	5357.5	5292.7	5217.3	5080.2	5012.4	5020.0	5021.5	5017.0	5023.0
7.5°	5589.5	5584.9	5553.3	5539.8	5488.5	5390.6	5233.9	5206.8	5140.5	5098.3	5063.7
10°	5351.4	5459.9	5488.5	5536.7	5566.9	5548.8	5416.2	5396.6	5354.4	5306.2	5316.8
12.5°	5093.8	5182.7	5187.2	5449.4	5508.1	5514.1	5462.9	5490.0	5496.1	5387.6	5324.3
15°	4777.4	4819.6	4908.5	5152.6	5330.3	5441.8	5475.0	5490.0	5416.2	5411.7	5386.1
17.5°	4638.8	4665.9	4706.6	4843.7	5113.4	5277.6	5417.7	5407.2	5435.8	5414.7	5349.9
20°	4464.0	4486.6	4559.0	4628.3	4760.8	4979.3	5241.4	5261.0	5298.7	5294.2	5312.3
22.5°	4461.0	4381.2	4393.2	4447.5	4586.1	4781.9	5060.7	5125.4	5149.5	5166.1	5185.7
25°	3539.0	4173.3	4289.3	4323.9	4414.3	4528.8	4857.3	4881.4	4926.6	5000.4	5054.6
27.5°	3065.9	3496.8	3960.8	4201.9	4259.1	4354.1	4549.9	4586.1	4739.7	4757.8	4842.2
30°	2419.6	2752.5	3445.6	4025.6	4120.5	4186.8	4325.4	4397.8	4464.0	4536.4	4625.2
32.5°	2276.5	2329.2	2713.4	3331.1	4069.3	4019.6	4122.0	4165.7	4238.1	4301.3	4366.1
35°	2145.4	2181.5	2262.9	2728.4	3314.5	3882.5	3951.8	3980.4	4021.1	4069.3	4116.0
37.5°	2008.3	2062.5	2118.3	2243.3	3065.9	3774.0	3772.5	3805.7	3829.8	3870.4	3909.6
40°	364.6	1893.8	1984.2	2065.5	2377.4	3010.2	3603.8	3618.8	3635.4	3661.0	3701.7
42.5°	58.8	316.4	1859.1	1937.5	2026.4	2695.3	3526.9	3465.2	3454.6	3472.7	3508.9
45°	30.1	76.8	373.6	1809.4	1889.3	2149.9	2883.6	3358.2	3347.7	3313.0	3320.5
47.5°	22.6	48.2	91.9	625.2	1768.7	1845.6	2660.6	2632.0	2832.4	3216.6	3157.8
50°	19.6	33.1	54.2	128.1	1562.3	1699.4	2049.0	2394.0	2499.4	2513.0	2974.0
52.5°	18.1	22.6	39.2	82.9	328.4	1571.4	1666.3	1786.8	1964.6	2345.8	2336.7
55°	16.6	21.1	33.1	55.7	114.5	1416.2	1514.1	1536.7	1574.4	1756.7	1997.7
57.5°	9.0	19.6	31.6	48.2	85.9	259.1	1374.0	1392.1	1422.2	1429.8	1515.6
60°	4.5	18.1	28.6	42.2	63.3	120.5	1235.4	1256.5	1274.6	1277.6	1304.7
62.5°	3.0	16.6	24.1	39.2	52.7	85.9	292.3	596.6	1134.5	1134.5	1166.1
65°	3.0	12.1	15.1	25.6	48.2	70.8	123.5	143.1	278.7	685.5	1023.0
67.5°	3.0	4.5	13.6	21.1	36.2	54.2	90.4	105.5	126.6	144.6	268.2
70°	3.0	3.0	12.1	13.6	22.6	40.7	64.8	73.8	85.9	97.9	113.0
72.5°	3.0	3.0	10.5	10.5	15.1	27.1	49.7	54.2	61.8	69.3	79.8
75°	7.5	6.0	9.0	9.0	10.5	21.1	37.7	42.2	45.2	51.2	58.8
77.5°	7.5	7.5	7.5	7.5	7.5	13.6	24.1	27.1	31.6	34.7	40.7
80°	6.0	6.0	6.0	7.5	7.5	9.0	15.1	16.6	18.1	22.6	24.1
82.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	9.0	10.5	13.6
85°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.0	6.0	6.0	6.0
87.5°	4.5	4.5	4.5	3.0	3.0	4.5	4.5	4.5	4.5	4.5	4.5
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: P1213528

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0	5020.0
2.5°	5051.6	5042.6	5035.0	5039.6	5026.0	5020.0	5024.5	5026.0	5029.0	5036.5	5038.1
5°	5038.1	5035.0	5048.6	5056.1	5053.1	5056.1	5056.1	5050.1	5041.1	5047.1	5033.5
7.5°	5029.0	5009.4	4994.4	4997.4	4982.3	5000.4	5017.0	5041.1	5048.6	5048.6	5033.5
10°	5184.2	5163.1	5078.7	5021.5	4983.8	4950.7	5029.0	4949.2	4986.8	4843.7	5007.9
12.5°	5312.3	5340.9	5303.2	5146.5	5119.4	5020.0	5077.2	4979.3	4950.7	4786.5	4839.2
15°	5363.5	5309.2	5297.2	5253.5	5194.7	5166.1	5012.4	4995.9	4949.2	4967.2	4897.9
17.5°	5318.3	5345.4	5309.2	5280.6	5220.4	5152.6	5060.7	4979.3	4914.5	4769.9	4891.9
20°	5274.6	5310.7	5202.3	5220.4	5226.4	5148.0	5099.8	5032.0	4950.7	4815.1	4709.6
22.5°	5202.3	5176.7	5185.7	5158.6	5136.0	5146.5	5080.2	5033.5	4896.4	4834.7	4691.5
25°	5084.8	5075.7	5099.8	5096.8	5042.6	5024.5	4991.4	4941.6	4887.4	4788.0	4670.4
27.5°	4893.4	4940.1	4982.3	5001.9	4973.3	4925.1	4907.0	4878.4	4840.7	4739.7	4652.4
30°	4691.5	4744.3	4792.5	4834.7	4860.3	4839.2	4822.6	4806.0	4748.8	4682.5	4584.6
32.5°	4461.0	4530.3	4596.6	4647.8	4703.6	4720.2	4708.1	4694.6	4646.3	4586.1	4507.7
35°	4194.4	4289.3	4385.7	4477.6	4501.7	4540.9	4580.0	4557.5	4531.8	4471.6	4399.3
37.5°	3968.4	4036.2	4105.5	4221.5	4305.8	4355.6	4424.9	4433.9	4390.2	4361.6	4266.7
40°	3734.8	3796.6	3897.6	3965.4	4081.4	4138.6	4212.4	4245.6	4235.0	4218.5	4135.6
42.5°	3551.0	3581.2	3647.5	3707.7	3822.2	3939.7	4004.5	4040.7	4078.4	4064.8	4022.6
45°	3355.2	3382.3	3404.9	3457.6	3569.1	3673.1	3752.9	3807.2	3875.0	3906.6	3855.4
47.5°	3160.8	3168.4	3195.5	3239.2	3305.5	3385.3	3519.4	3600.8	3664.0	3725.8	3692.7
50°	3011.7	2984.6	2989.1	3016.2	3070.4	3148.8	3245.2	3359.7	3432.0	3507.4	3514.9
52.5°	2632.0	2852.0	2799.3	2814.3	2842.9	2880.6	2981.6	3094.5	3183.4	3248.2	3313.0
55°	2208.7	2252.4	2675.7	2615.4	2633.5	2666.7	2713.4	2826.4	2912.2	3002.6	3093.0
57.5°	1713.0	2038.4	2055.0	2446.7	2437.7	2440.7	2479.9	2544.6	2630.5	2743.5	2820.3
60°	1331.8	1468.9	1735.6	1871.2	2214.7	2226.7	2249.3	2287.0	2360.8	2467.8	2589.8
62.5°	1175.1	1193.2	1288.1	1491.5	1714.5	1984.2	2032.4	2038.4	2071.6	2178.5	2320.2
65°	1032.0	1044.1	1072.7	1093.8	1280.6	1541.2	1773.3	1810.9	1832.0	1895.3	2015.8
67.5°	711.1	899.4	925.0	940.1	958.2	1078.7	1366.5	1557.8	1581.9	1637.7	1743.1
70°	137.1	284.7	778.9	795.5	804.5	831.6	878.3	1182.7	1342.4	1395.1	1443.3
72.5°	93.4	110.0	132.6	313.4	662.9	678.0	688.5	727.7	997.4	1151.0	1176.7
75°	67.8	75.3	88.9	110.0	135.6	441.4	546.9	566.5	586.1	809.0	938.6
77.5°	48.2	54.2	60.3	70.8	82.9	107.0	153.7	423.4	442.9	453.5	640.3
80°	27.1	33.1	40.7	46.7	52.7	60.3	78.3	97.9	218.5	319.4	336.0
82.5°	15.1	18.1	21.1	25.6	28.6	36.2	43.7	52.7	69.3	102.4	216.9
85°	7.5	7.5	7.5	10.5	12.1	16.6	19.6	22.6	31.6	43.7	60.3
87.5°	4.5	4.5	6.0	6.0	6.0	7.5	7.5	7.5	9.0	13.6	19.6
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: P1213528

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	5020.0	5020.0	5020.0	5020.0	5020.0
2.5°	5039.6	5035.0	5035.0	5053.1	5048.6
5°	5030.5	5026.0	5024.5	5044.1	5035.0
7.5°	5023.0	5006.4	5001.9	5020.0	5012.4
10°	4992.9	4980.8	4988.3	4982.3	4979.3
12.5°	4941.6	4934.1	4902.5	4905.5	4931.1
15°	4849.7	4879.9	4825.6	4873.8	4884.4
17.5°	4681.0	4748.8	4801.5	4830.1	4834.7
20°	4756.3	4778.9	4751.8	4753.3	4771.4
22.5°	4658.4	4668.9	4676.5	4667.4	4706.6
25°	4501.7	4461.0	4548.4	4566.5	4629.8
27.5°	4453.5	4420.4	4461.0	4458.0	4510.7
30°	4414.3	4307.4	4325.4	4354.1	4418.8
32.5°	4358.6	4189.8	4171.8	4235.0	4307.4
35°	4260.7	4101.0	4058.8	4099.4	4207.9
37.5°	4177.8	3977.4	3893.0	3947.3	4088.9
40°	4054.2	3881.0	3749.9	3798.1	3965.4
42.5°	3906.6	3798.1	3596.2	3629.4	3820.7
45°	3757.4	3661.0	3447.1	3463.7	3691.2
47.5°	3605.3	3516.4	3291.9	3294.9	3525.4
50°	3456.1	3338.6	3153.3	3100.6	3349.2
52.5°	3261.8	3153.3	3013.2	2927.3	3181.9
55°	3078.0	2955.9	2853.5	2720.9	2992.1
57.5°	2898.7	2763.1	2693.8	2523.5	2776.7
60°	2653.1	2588.3	2485.9	2323.2	2582.3
62.5°	2401.5	2380.4	2276.5	2107.7	2342.8
65°	2107.7	2157.4	2050.5	1905.8	2094.2
67.5°	1830.5	1919.4	1801.9	1713.0	1854.6
70°	1535.2	1637.7	1571.4	1539.7	1600.0
72.5°	1244.4	1343.9	1349.9	1327.3	1346.9
75°	961.2	1071.2	1131.5	1096.8	1101.3
77.5°	729.2	781.9	848.2	875.3	869.3
80°	450.5	542.4	596.6	652.4	632.8
82.5°	227.5	304.3	370.6	430.9	402.3
85°	94.9	122.0	170.2	224.5	215.4
87.5°	28.6	48.2	51.2	72.3	67.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)