

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: P1213879

Luminaire Tested: 4SNLED-LD5-76SL-RM-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213879
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-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

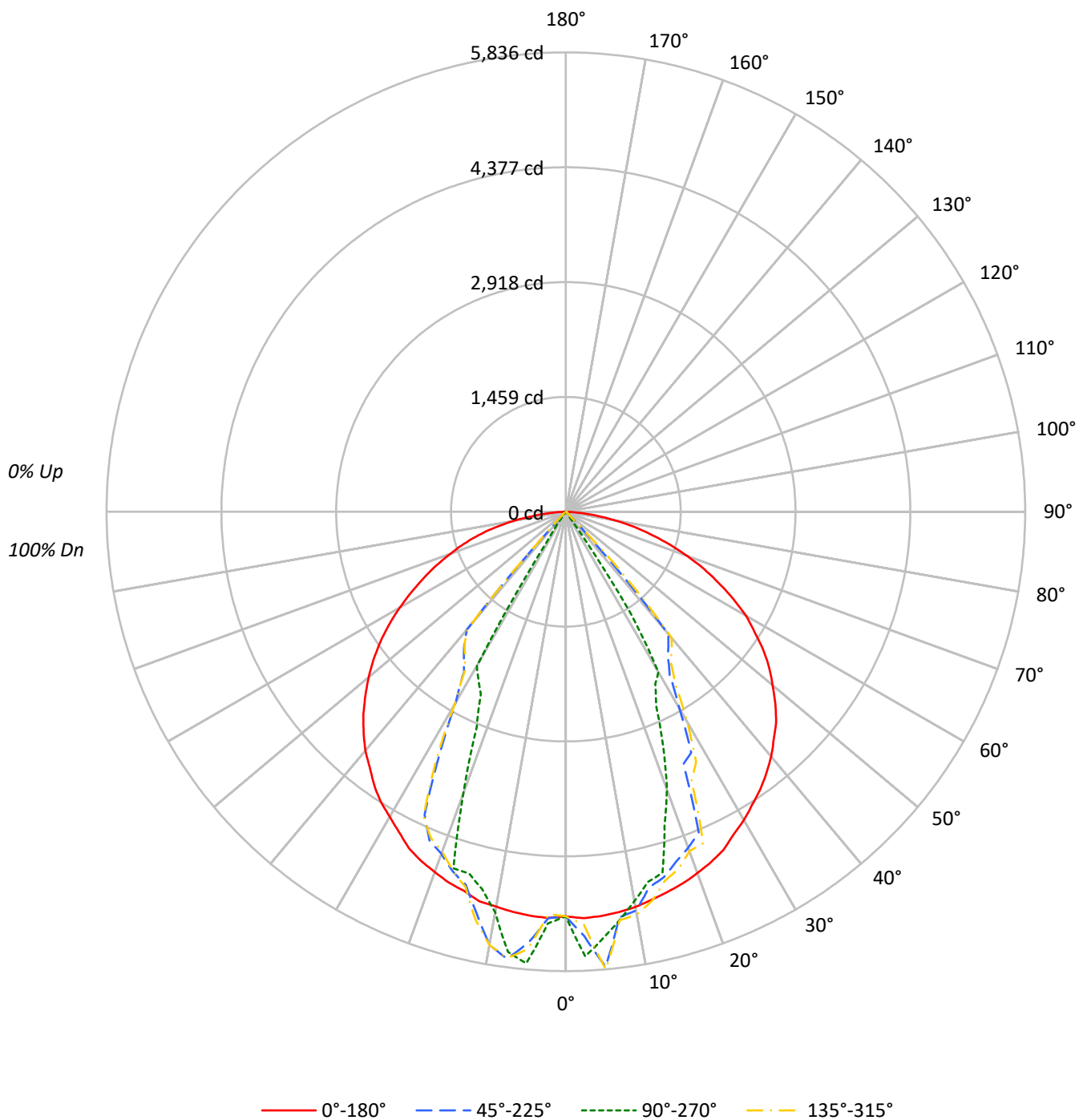
Lumens per Lamp: N/A
Luminaire Lumens: 7307.0 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	41527	41527	41527	41527
5°	41697	42710	41684	45229
10°	41597	38648	41571	39764
15°	41483	36074	41381	36167
20°	41532	28413	41414	28763
25°	41652	20562	41448	19404
30°	41461	18038	41023	17340
35°	41584	398	40974	482
40°	41726	87	40728	87
45°	41874	52	40302	38
50°	41555	40	39647	40
55°	41309	28	38772	28
60°	40529	30	37361	30
65°	38416	49	35681	33
70°	35639	54	33927	54
75°	31524	60	32041	60
80°	25608	68	27071	68
85°	15064	81	15385	81

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 45214 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.6	7.1
10°-20°	1406.3	19.2
20°-30°	1789.5	24.5
30°-40°	1511.6	20.7
40°-50°	988.3	13.5
50°-60°	622.7	8.5
60°-70°	331.5	4.5
70°-80°	120.8	1.7
80°-90°	20.8	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°	3711.3	50.8
0°-40°	5222.9	71.5
0°-60°	6833.9	93.5
0°-90°	7307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7307.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5139	5139	5139	5139	5139	
5°	5154	5438	5153	5759	5154	490
15°	5000	4746	4988	4758	5000	1413
25°	4739	2710	4716	2557	4739	2179
35°	4308	51	4244	62	4308	2695
45°	3779	6	3637	5	3779	2906
55°	3063	3	2875	3	3063	2729
65°	2144	5	1991	3	2144	2123
75°	1127	5	1146	5	1127	1197
85°	220	5	225	5	220	279
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°	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8
2.5°	5168.1	5171.2	5172.8	5175.8	5180.5	5182.0	5185.1	5182.0	5182.0	5182.0	5182.0
5°	5154.3	5160.4	5165.0	5171.2	5182.0	5183.6	5195.9	5197.4	5203.6	5215.9	5225.2
7.5°	5131.1	5137.3	5146.5	5162.0	5177.4	5194.4	5215.9	5239.1	5271.5	5302.3	5340.9
10°	5097.2	5104.9	5115.7	5129.6	5205.1	5215.9	5263.8	5330.1	5348.6	5445.7	5518.2
12.5°	5047.8	5074.1	5101.8	5114.2	5186.6	5300.8	5461.2	5428.8	5393.3	5711.0	5706.4
15°	5000.0	5035.5	5021.6	5121.9	5188.2	5387.1	5319.3	5464.2	5729.5	5664.7	5667.8
17.5°	4949.1	4956.8	5034.0	5117.2	5236.0	5337.8	5421.1	5620.0	5672.5	5677.1	5620.0
20°	4884.4	4921.4	5034.0	5109.5	5310.0	5357.8	5538.3	5640.1	5618.5	5566.0	5468.9
22.5°	4818.0	4930.6	5044.8	5151.2	5291.5	5419.5	5509.0	5556.8	5444.2	5237.5	5126.5
25°	4739.4	4805.7	4955.3	5111.1	5286.9	5360.9	5413.4	5336.2	5189.7	5004.7	4818.0
27.5°	4617.5	4724.0	4915.2	5091.0	5249.9	5339.3	5254.5	5069.4	4833.5	4711.6	4626.8
30°	4523.5	4662.3	4819.6	4989.2	5154.3	5206.7	4990.8	4779.5	4617.5	4495.7	4477.2
32.5°	4409.3	4606.7	4756.3	4918.3	5057.1	4987.7	4777.9	4505.0	4370.8	4324.5	4343.0
35°	4307.5	4457.1	4653.0	4811.9	4912.1	4756.3	4424.8	4255.1	4190.3	4216.6	4182.6
37.5°	4185.7	4383.1	4563.6	4700.8	4666.9	4432.5	4151.8	4043.8	4051.5	4029.9	3965.2
40°	4059.2	4247.4	4435.6	4565.1	4446.4	4088.5	3901.9	3878.8	3883.4	3814.0	3721.5
42.5°	3911.2	4082.4	4270.5	4387.7	4131.7	3852.6	3726.1	3729.2	3689.1	3591.9	3542.6
45°	3778.6	3935.9	4131.7	4142.5	3827.9	3595.0	3558.0	3517.9	3428.5	3396.1	3359.1
47.5°	3608.9	3783.2	3945.1	3886.5	3530.2	3385.3	3357.5	3269.6	3224.9	3200.2	3169.4
50°	3428.5	3604.3	3752.3	3585.8	3249.6	3215.6	3124.6	3055.2	3024.4	2998.2	2970.4
52.5°	3257.3	3402.2	3553.4	3266.5	3033.6	3001.2	2897.9	2857.8	2827.0	2797.7	2791.5
55°	3062.9	3190.9	3294.3	2962.7	2827.0	2751.4	2677.4	2649.6	2620.3	2606.4	2629.6
57.5°	2842.4	2987.4	2971.9	2663.5	2603.3	2493.8	2466.1	2447.6	2426.0	2435.2	2242.5
60°	2643.4	2754.5	2678.9	2444.5	2342.7	2268.7	2244.0	2231.7	2244.0	2055.8	1807.5
62.5°	2398.2	2523.1	2370.5	2188.5	2080.5	2045.0	2023.5	2040.4	1860.0	1653.3	1593.2
65°	2143.7	2279.5	2054.3	1914.0	1846.1	1815.2	1813.7	1670.3	1492.9	1412.7	1412.7
67.5°	1898.5	2038.9	1748.9	1631.7	1605.5	1608.6	1519.1	1301.7	1252.3	1198.3	1042.6
70°	1637.9	1761.3	1445.1	1374.2	1358.7	1347.9	1130.5	1071.9	1013.3	869.8	857.5
72.5°	1378.8	1438.9	1161.3	1144.4	1141.3	948.5	905.3	805.1	737.2	720.2	712.5
75°	1127.4	1108.9	917.6	933.1	786.6	718.7	649.3	590.7	581.4	575.3	143.4
77.5°	889.9	797.4	723.3	629.2	562.9	478.1	464.2	455.0	299.2	108.0	87.9
80°	647.8	516.7	481.2	408.7	348.6	334.7	342.4	104.9	83.3	69.4	60.1
82.5°	411.8	330.0	269.9	236.0	229.8	100.2	74.0	60.1	52.4	44.7	37.0
85°	220.5	146.5	135.7	114.1	67.9	46.3	38.6	29.3	24.7	20.0	18.5
87.5°	69.4	58.6	47.8	38.6	23.1	15.4	12.3	10.8	9.3	7.7	7.7
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°	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8
2.5°	5178.9	5182.0	5180.5	5185.1	5185.1	5191.3	5195.9	5200.5	5209.8	5214.4	5249.9
5°	5245.2	5253.0	5276.1	5297.7	5323.9	5331.6	5376.3	5387.1	5439.6	5445.7	5618.5
7.5°	5393.3	5422.6	5478.1	5533.6	5589.2	5624.6	5686.3	5724.9	5766.5	5803.5	5940.8
10°	5572.2	5621.6	5675.5	5731.1	5763.4	5831.3	5868.3	5874.5	5863.7	5803.5	5581.5
12.5°	5748.0	5797.4	5774.2	5785.0	5823.6	5703.3	5720.3	5633.9	5694.0	5396.4	5175.8
15°	5723.3	5720.3	5663.2	5478.1	5509.0	5279.2	5186.6	5115.7	5172.8	5141.9	5108.0
17.5°	5649.3	5509.0	5410.3	5188.2	5094.1	5029.3	5030.9	5032.4	5004.7	5034.0	4947.6
20°	5336.2	5178.9	5032.4	4953.8	4926.0	4879.7	4902.9	4879.7	4881.3	4890.5	4757.9
22.5°	4919.8	4872.0	4787.2	4811.9	4802.6	4844.3	4813.4	4765.6	4781.0	4711.6	4611.4
25°	4751.7	4696.2	4693.1	4702.4	4688.5	4670.0	4642.2	4569.7	4565.1	4543.5	4497.2
27.5°	4582.1	4585.2	4594.4	4566.6	4517.3	4480.3	4438.6	4403.2	4417.0	4392.4	4329.1
30°	4464.9	4463.3	4407.8	4383.1	4292.1	4293.7	4282.9	4261.3	4247.4	4248.9	4208.8
32.5°	4298.3	4250.5	4187.3	4156.4	4148.7	4120.9	4099.3	4104.0	4114.8	4076.2	4117.8
35°	4127.1	4028.4	4019.1	3992.9	3968.2	3949.7	3957.5	3926.6	3925.1	3920.4	3581.1
37.5°	3897.3	3849.5	3844.9	3817.1	3800.1	3795.5	3766.2	3770.8	3784.7	3809.4	3053.7
40°	3707.6	3664.4	3653.6	3652.1	3615.1	3612.0	3619.7	3649.0	3669.0	3514.8	2910.3
42.5°	3504.0	3507.1	3473.2	3451.6	3456.2	3470.1	3507.1	3405.3	2950.4	2811.6	2660.4
45°	3329.8	3314.3	3295.8	3289.7	3329.8	3302.0	2894.8	2671.2	2617.2	2611.1	2186.9
47.5°	3147.8	3143.1	3135.4	3140.1	2911.8	2595.6	2503.1	2473.8	2483.0	2476.9	1878.5
50°	2964.2	2970.4	2970.4	2594.1	2381.3	2328.8	2336.5	2362.8	2199.3	2052.8	1750.5
52.5°	2805.4	2757.6	2362.8	2227.0	2179.2	2202.4	2146.8	1941.7	1793.7	1707.3	1619.4
55°	2510.8	2159.2	2071.3	2049.7	2066.6	1861.5	1735.0	1602.4	1563.9	1554.6	1503.7
57.5°	1975.6	1904.7	1912.4	1826.0	1630.2	1514.5	1463.6	1445.1	1428.1	1415.8	123.4
60°	1747.4	1767.4	1617.8	1432.8	1354.1	1338.7	1326.3	1309.4	1306.3	1284.7	78.7
62.5°	1599.3	1406.5	1277.0	1230.7	1212.2	1207.6	1184.5	1176.7	999.4	137.3	58.6
65°	1206.1	1127.4	1102.7	1091.9	1071.9	1071.9	889.9	140.3	114.1	98.7	52.4
67.5°	984.0	977.8	965.5	951.6	647.8	135.7	118.8	103.3	89.5	78.7	46.3
70°	832.8	829.7	755.7	138.8	115.7	101.8	89.5	80.2	74.0	66.3	41.6
72.5°	683.2	138.8	117.2	101.8	87.9	80.2	72.5	64.8	58.6	54.0	33.9
75°	106.4	94.1	83.3	75.6	69.4	61.7	55.5	50.9	49.4	43.2	23.1
77.5°	77.1	66.3	60.1	54.0	47.8	43.2	37.0	32.4	29.3	24.7	17.0
80°	54.0	47.8	43.2	35.5	30.8	26.2	23.1	20.0	18.5	15.4	7.7
82.5°	30.8	26.2	23.1	18.5	17.0	13.9	12.3	10.8	10.8	7.7	7.7
85°	13.9	13.9	10.8	9.3	7.7	7.7	7.7	6.2	6.2	4.6	4.6
87.5°	6.2	6.2	6.2	6.2	6.2	4.6	4.6	4.6	4.6	4.6	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8
2.5°	5299.2	5319.3	5357.8	5397.9	5353.2	5513.6	5501.3	5555.2	5584.5	5598.4	5630.8
5°	5771.2	5860.6	5889.9	5802.0	5751.1	5698.7	5579.9	5490.5	5501.3	5472.0	5365.5
7.5°	5761.9	5570.7	5313.1	5195.9	5186.6	5172.8	5209.8	5231.4	5234.4	5232.9	5229.8
10°	5274.5	5175.8	5158.9	5143.5	5149.6	5092.6	5066.3	4992.3	5032.4	5010.8	5018.5
12.5°	5126.5	5103.4	5012.4	4885.9	4961.5	4904.4	4872.0	4893.6	4868.9	4845.8	4838.1
15°	5038.6	4889.0	4838.1	4807.2	4785.7	4773.3	4784.1	4759.4	4751.7	4747.1	4757.9
17.5°	4856.6	4796.4	4740.9	4659.2	4660.7	4656.1	4686.9	4733.2	4736.3	4498.8	4284.4
20°	4713.2	4663.8	4592.9	4542.0	4611.4	4488.0	4011.4	3784.7	3749.2	3749.2	3755.4
22.5°	4599.0	4489.5	4494.2	4414.0	3764.7	3632.0	3635.1	3649.0	3585.8	3369.9	3346.7
25°	4443.3	4426.3	4088.5	3533.3	3538.0	3434.6	3275.8	3052.1	2810.0	2810.0	2769.9
27.5°	4326.1	3966.7	3473.2	3450.0	3103.0	2884.0	2748.3	2543.2	2515.4	2489.2	2492.3
30°	4225.8	3356.0	3368.3	2884.0	2628.0	2446.0	2435.2	2401.3	2384.3	2379.7	2362.8
32.5°	3340.5	3268.1	2819.3	2455.3	2355.0	2325.7	2311.9	2273.3	2271.8	2242.5	2038.9
35°	3132.3	2868.6	2359.7	2261.0	2231.7	2203.9	2180.8	1463.6	172.7	69.4	60.1
37.5°	2894.8	2396.7	2182.3	2137.6	2109.8	1559.2	155.8	54.0	38.6	27.8	24.7
40°	2453.7	2140.7	2072.8	2023.5	834.4	54.0	33.9	26.2	15.4	13.9	12.3
42.5°	2069.7	2017.3	1944.8	592.2	61.7	26.2	17.0	12.3	10.8	10.8	9.3
45°	1937.1	1890.8	783.5	58.6	38.6	12.3	10.8	10.8	9.3	6.2	6.2
47.5°	1813.7	1596.2	70.9	37.0	24.7	10.8	9.3	6.2	6.2	6.2	4.6
50°	1682.6	87.9	49.4	27.8	15.4	6.2	6.2	6.2	6.2	4.6	4.6
52.5°	314.6	61.7	40.1	24.7	7.7	6.2	6.2	6.2	4.6	4.6	4.6
55°	74.0	49.4	37.0	21.6	6.2	6.2	6.2	4.6	4.6	4.6	3.1
57.5°	55.5	37.0	29.3	20.0	6.2	4.6	4.6	4.6	4.6	4.6	3.1
60°	46.3	26.2	23.1	18.5	4.6	4.6	4.6	4.6	4.6	4.6	3.1
62.5°	32.4	21.6	17.0	13.9	4.6	4.6	4.6	4.6	4.6	4.6	4.6
65°	26.2	17.0	13.9	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
67.5°	23.1	13.9	9.3	3.1	4.6	4.6	4.6	4.6	4.6	4.6	4.6
70°	18.5	4.6	4.6	3.1	4.6	4.6	4.6	4.6	4.6	4.6	4.6
72.5°	15.4	4.6	3.1	3.1	4.6	4.6	4.6	4.6	4.6	4.6	4.6
75°	15.4	7.7	3.1	3.1	4.6	4.6	6.2	6.2	4.6	4.6	4.6
77.5°	10.8	7.7	3.1	3.1	4.6	4.6	6.2	6.2	4.6	4.6	4.6
80°	6.2	7.7	3.1	4.6	4.6	9.3	10.8	6.2	4.6	4.6	4.6
82.5°	6.2	7.7	9.3	9.3	4.6	7.7	9.3	7.7	6.2	4.6	4.6
85°	6.2	4.6	6.2	7.7	4.6	7.7	7.7	6.2	6.2	4.6	4.6
87.5°	3.1	4.6	4.6	6.2	6.2	6.2	7.7	6.2	6.2	6.2	4.6
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: P1213879

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8
2.5°	5646.2	5652.4	5555.2	5521.3	5550.6	5544.4	5518.2	5421.1	5410.3	5345.5	5251.4
5°	5396.4	5438.0	5387.1	5475.0	5433.4	5475.0	5601.5	5660.1	5755.7	5814.3	5835.9
7.5°	5222.1	5231.4	5231.4	5239.1	5246.8	5248.3	5239.1	5232.9	5206.7	5174.3	5232.9
10°	5010.8	5021.6	5040.1	5037.0	5035.5	5067.9	5075.6	5141.9	5138.8	5151.2	5195.9
12.5°	4901.3	4818.0	4893.6	4873.6	4901.3	4858.1	4938.3	4924.5	4929.1	4966.1	5061.7
15°	4719.3	4745.6	4764.1	4764.1	4774.9	4765.6	4756.3	4819.6	4858.1	4859.7	4853.5
17.5°	4369.2	4170.3	4373.9	4321.4	4739.4	4750.2	4714.7	4685.4	4685.4	4708.5	4757.9
20°	3750.8	3755.4	3757.0	3777.0	3801.7	3800.1	3801.7	4409.3	4697.7	4631.4	4586.7
22.5°	3288.1	3231.0	3337.5	3329.8	3462.4	3608.9	3749.2	3735.4	3744.6	4173.4	4558.9
25°	2635.7	2709.8	2649.6	2675.8	2825.4	2999.7	3107.7	3389.9	3696.8	3675.2	3775.5
27.5°	2481.5	2461.5	2489.2	2489.2	2509.3	2532.4	2592.5	2751.4	3024.4	3311.2	3582.7
30°	2335.0	2352.0	2355.0	2382.8	2398.2	2413.6	2422.9	2483.0	2544.7	2743.7	3078.4
32.5°	1753.6	1537.6	2023.5	2154.5	2265.6	2291.8	2310.3	2335.0	2379.7	2409.0	2577.1
35°	50.9	50.9	54.0	61.7	78.7	530.5	2020.4	2227.0	2256.3	2293.3	2324.2
37.5°	24.7	18.5	21.6	23.1	27.8	38.6	55.5	172.7	1923.2	2174.6	2208.5
40°	10.8	10.8	10.8	10.8	12.3	15.4	23.1	38.6	58.6	1546.9	2086.7
42.5°	9.3	9.3	9.3	9.3	9.3	9.3	10.8	13.9	27.8	66.3	1095.0
45°	6.2	6.2	4.6	6.2	6.2	7.7	9.3	9.3	12.3	41.6	75.6
47.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	7.7	9.3	27.8	40.1
50°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	21.6	27.8
52.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	9.3	24.7
55°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.6	4.6	6.2	21.6
57.5°	3.1	3.1	3.1	3.1	3.1	4.6	3.1	3.1	4.6	4.6	20.0
60°	3.1	3.1	3.1	3.1	3.1	4.6	4.6	4.6	4.6	4.6	18.5
62.5°	4.6	4.6	3.1	4.6	3.1	3.1	4.6	4.6	4.6	4.6	12.3
65°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	3.1	4.6
67.5°	4.6	4.6	4.6	4.6	3.1	4.6	3.1	4.6	4.6	3.1	3.1
70°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	3.1	3.1	3.1	3.1
72.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	3.1	3.1	3.1	3.1
75°	4.6	4.6	4.6	4.6	4.6	4.6	6.2	6.2	3.1	3.1	3.1
77.5°	4.6	4.6	4.6	4.6	4.6	4.6	7.7	9.3	7.7	7.7	3.1
80°	4.6	4.6	4.6	4.6	4.6	4.6	7.7	7.7	7.7	7.7	10.8
82.5°	4.6	4.6	4.6	4.6	4.6	4.6	6.2	6.2	6.2	6.2	7.7
85°	4.6	4.6	4.6	4.6	4.6	4.6	6.2	6.2	6.2	4.6	6.2
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	6.2	4.6	4.6	4.6
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: P1213879

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8
2.5°	5259.1	5206.7	5189.7	5154.3	5151.2	5154.3	5146.5	5135.7	5141.9	5131.1	5121.9
5°	5848.3	5707.9	5616.9	5495.1	5327.0	5290.0	5280.7	5228.3	5209.8	5203.6	5178.9
7.5°	5371.7	5627.7	5782.0	5834.4	5637.0	5590.7	5536.7	5493.6	5451.9	5373.3	5325.4
10°	5160.4	5172.8	5320.8	5493.6	5774.2	5812.8	5842.1	5748.0	5721.8	5521.3	5478.1
12.5°	5111.1	5112.6	5129.6	5234.4	5455.0	5479.7	5583.0	5638.5	5706.4	5744.9	5714.1
15°	4885.9	5010.8	5103.4	5112.6	5132.7	5175.8	5206.7	5399.5	5481.2	5700.2	5687.9
17.5°	4781.0	4821.1	4955.3	5064.8	5046.3	5030.9	5055.5	5081.8	5160.4	5379.4	5376.3
20°	4606.7	4734.8	4807.2	4921.4	5024.7	5029.3	5001.6	4986.1	4955.3	4990.8	5023.2
22.5°	4532.7	4552.8	4688.5	4768.7	4885.9	4927.5	4933.7	4935.2	4918.3	4899.8	4890.5
25°	4525.0	4461.8	4531.2	4631.4	4717.8	4762.5	4813.4	4830.4	4824.2	4824.2	4815.0
27.5°	3703.0	4441.7	4404.7	4471.0	4575.9	4606.7	4633.0	4685.4	4717.8	4740.9	4751.7
30°	3527.2	3659.8	4306.0	4315.3	4421.7	4418.6	4447.9	4491.1	4532.7	4586.7	4600.6
32.5°	3120.0	3445.4	3942.0	4159.5	4270.5	4281.3	4296.8	4309.1	4347.6	4407.8	4460.2
35°	2500.0	3138.5	3377.6	4085.5	4105.5	4127.1	4136.4	4165.7	4178.0	4202.7	4248.9
37.5°	2262.5	2594.1	3240.3	3533.3	3915.8	3934.3	3983.7	3996.0	4016.1	4036.1	4071.6
40°	2125.2	2216.2	2697.4	3155.5	3763.1	3775.5	3792.4	3823.3	3824.8	3848.0	3880.3
42.5°	2015.7	2074.3	2214.7	3013.6	3655.2	3653.6	3613.5	3633.6	3642.8	3667.5	3712.2
45°	1610.1	1946.3	2035.8	2461.5	2910.3	3120.0	3522.5	3456.2	3454.7	3463.9	3511.7
47.5°	81.7	1830.7	1893.9	2031.2	2748.3	2756.0	2808.5	3249.6	3317.4	3295.8	3300.4
50°	55.5	126.5	1764.4	1827.6	2368.9	2560.2	2598.7	2618.8	2873.2	3157.0	3110.7
52.5°	43.2	72.5	1081.1	1696.5	1924.7	2065.1	2313.4	2455.3	2470.7	2584.8	2971.9
55°	38.6	55.5	117.2	1565.4	1636.3	1667.2	1812.2	2060.5	2261.0	2321.1	2325.7
57.5°	33.9	50.9	80.2	707.9	1488.3	1494.5	1519.1	1605.5	1785.9	1951.0	2137.6
60°	30.8	44.7	63.2	121.8	1352.6	1368.0	1372.6	1395.8	1417.3	1529.9	1744.3
62.5°	18.5	35.5	55.5	87.9	1070.3	1229.2	1227.6	1243.1	1263.1	1275.5	1318.6
65°	15.4	27.8	47.8	74.0	131.1	163.5	993.2	1104.3	1116.6	1133.6	1141.3
67.5°	13.9	24.7	35.5	58.6	98.7	112.6	129.6	160.4	876.0	987.0	1002.5
70°	12.3	17.0	29.3	49.4	80.2	86.4	97.2	111.0	131.1	161.9	792.7
72.5°	7.7	12.3	20.0	35.5	61.7	69.4	75.6	84.8	94.1	112.6	129.6
75°	3.1	9.3	17.0	26.2	47.8	52.4	57.1	63.2	70.9	83.3	92.5
77.5°	3.1	7.7	13.9	18.5	30.8	35.5	41.6	46.3	52.4	58.6	67.9
80°	10.8	6.2	9.3	13.9	21.6	23.1	26.2	29.3	33.9	38.6	44.7
82.5°	7.7	9.3	10.8	9.3	10.8	13.9	15.4	18.5	20.0	23.1	24.7
85°	6.2	6.2	7.7	7.7	7.7	7.7	7.7	7.7	9.3	10.8	13.9
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	6.2	6.2
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: P1213879

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8
2.5°	5121.9	5118.8	5109.5	5109.5	5108.0	5114.2	5118.8	5123.4	5121.9	5131.1	5121.9
5°	5160.4	5152.7	5138.8	5126.5	5121.9	5124.9	5120.3	5124.9	5118.8	5126.5	5112.6
7.5°	5266.8	5240.6	5186.6	5165.0	5137.3	5135.7	5121.9	5118.8	5109.5	5109.5	5092.6
10°	5455.0	5328.5	5313.1	5248.3	5225.2	5112.6	5137.3	5095.6	5091.0	5071.0	5063.3
12.5°	5609.2	5510.5	5481.2	5424.1	5359.4	5131.1	5182.0	5092.6	5087.9	5047.8	5006.2
15°	5612.3	5669.4	5589.2	5431.9	5418.0	5260.7	5157.3	5126.5	5086.4	4966.1	4986.1
17.5°	5431.9	5563.0	5601.5	5567.6	5468.9	5362.5	5217.5	5155.8	5035.5	4981.5	4944.5
20°	5138.8	5271.5	5436.5	5447.3	5509.0	5433.4	5243.7	5143.5	4998.5	4904.4	4873.6
22.5°	4905.9	5003.1	5192.8	5280.7	5356.3	5382.5	5262.2	5114.2	4933.7	4842.7	4824.2
25°	4782.6	4804.2	4861.2	4964.6	5131.1	5251.4	5268.4	5111.1	5017.0	4818.0	4713.2
27.5°	4737.8	4719.3	4696.2	4748.6	4873.6	5020.1	5117.2	5143.5	4909.0	4719.3	4614.5
30°	4623.7	4634.5	4599.0	4580.5	4662.3	4813.4	4986.1	5029.3	4848.9	4653.0	4532.7
32.5°	4483.4	4501.9	4508.0	4475.7	4458.7	4563.6	4750.2	4853.5	4844.3	4558.9	4424.8
35°	4307.5	4360.0	4373.9	4375.4	4347.6	4330.7	4438.6	4653.0	4734.8	4515.8	4321.4
37.5°	4122.5	4137.9	4213.5	4233.5	4233.5	4182.6	4262.8	4434.0	4548.1	4418.6	4195.0
40°	3891.1	3940.5	4011.4	4046.9	4082.4	4087.0	4042.3	4162.6	4350.7	4318.3	4076.2
42.5°	3723.0	3755.4	3798.6	3846.4	3918.9	3937.4	3891.1	3912.7	4108.6	4193.4	3922.0
45°	3527.2	3570.3	3582.7	3635.1	3710.7	3764.7	3763.1	3718.4	3875.7	3980.6	3809.4
47.5°	3326.7	3368.3	3389.9	3416.1	3471.6	3541.0	3579.6	3559.5	3590.4	3795.5	3659.8
50°	3120.0	3143.1	3186.3	3215.6	3252.6	3292.7	3385.3	3403.8	3360.6	3524.1	3494.8
52.5°	2924.1	2931.8	2961.1	2990.5	3039.8	3069.1	3143.1	3198.7	3195.6	3243.4	3311.2
55°	2771.5	2737.5	2743.7	2766.8	2799.2	2843.9	2885.6	2971.9	3001.2	3010.5	3118.5
57.5°	2165.3	2513.9	2544.7	2543.2	2581.8	2601.8	2640.4	2697.4	2802.3	2779.2	2899.5
60°	1967.9	2006.5	2298.0	2331.9	2345.8	2364.3	2410.6	2463.0	2540.1	2589.5	2641.9
62.5°	1500.6	1735.0	1823.0	2080.5	2120.6	2131.4	2162.3	2186.9	2267.1	2379.7	2358.1
65°	1161.3	1261.6	1529.9	1634.8	1853.8	1881.6	1924.7	1951.0	1974.1	2103.7	2109.8
67.5°	1004.0	1019.4	1091.9	1294.0	1432.8	1647.1	1673.4	1696.5	1732.0	1824.5	1881.6
70°	857.5	876.0	896.1	913.0	1093.5	1235.4	1434.3	1442.0	1465.2	1526.8	1656.4
72.5°	161.9	732.6	744.9	755.7	775.8	869.8	1059.5	1213.8	1223.0	1252.3	1371.1
75°	109.5	128.0	175.8	604.6	624.6	630.8	663.2	856.0	997.8	1004.0	1056.5
77.5°	78.7	87.9	106.4	126.5	322.3	484.3	492.0	527.5	674.0	780.4	789.6
80°	54.0	60.1	70.9	80.2	98.7	129.6	357.8	368.6	387.1	533.6	561.4
82.5°	30.8	35.5	41.6	50.9	58.6	74.0	95.6	123.4	251.4	268.4	356.3
85°	15.4	17.0	20.0	24.7	29.3	35.5	47.8	58.6	80.2	145.0	149.6
87.5°	7.7	7.7	7.7	7.7	12.3	13.9	17.0	21.6	27.8	41.6	54.0
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: P1213879

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8
2.5°	5123.4	5145.0	5163.5	5168.1	5168.1	5171.2	5175.8	5178.9	5182.0	5185.1	5182.0
5°	5114.2	5137.3	5152.7	5157.3	5157.3	5166.6	5174.3	5183.6	5188.2	5188.2	5185.1
7.5°	5091.0	5108.0	5128.0	5140.4	5141.9	5157.3	5171.2	5169.7	5175.8	5178.9	5186.6
10°	5060.2	5060.2	5094.1	5103.4	5111.1	5128.0	5132.7	5141.9	5163.5	5166.6	5186.6
12.5°	5044.8	5029.3	5069.4	5074.1	5100.3	5078.7	5106.4	5115.7	5094.1	5123.4	5084.8
15°	4975.3	4993.9	4987.7	5001.6	5047.8	5023.2	5098.7	5074.1	5129.6	5063.3	5180.5
17.5°	4918.3	4915.2	4939.9	4952.2	4961.5	5013.9	5034.0	5061.7	5083.3	5064.8	5111.1
20°	4876.6	4852.0	4870.5	4884.4	4916.7	4956.8	4969.2	4927.5	5000.0	5123.4	5152.7
22.5°	4798.0	4781.0	4802.6	4802.6	4852.0	4845.8	4892.1	4865.8	4933.7	5077.1	5226.7
25°	4691.6	4693.1	4716.2	4744.0	4753.3	4822.7	4847.3	4881.3	4966.1	5137.3	5228.3
27.5°	4583.6	4574.4	4588.2	4645.3	4693.1	4744.0	4751.7	4867.4	4983.1	5100.3	5180.5
30°	4475.7	4466.4	4475.7	4517.3	4574.4	4608.3	4693.1	4847.3	4955.3	5035.5	5111.1
32.5°	4360.0	4350.7	4372.3	4403.2	4503.4	4508.0	4676.1	4821.1	4905.9	4964.6	4950.7
35°	4236.6	4224.3	4244.3	4292.1	4384.7	4418.6	4594.4	4702.4	4798.0	4825.7	4761.0
37.5°	4088.5	4067.0	4091.6	4157.9	4255.1	4353.8	4500.3	4625.3	4676.1	4602.1	4525.0
40°	3934.3	3918.9	3962.1	3996.0	4110.1	4247.4	4415.5	4503.4	4471.0	4386.2	4301.4
42.5°	3797.1	3764.7	3803.2	3868.0	3997.6	4153.3	4289.0	4338.4	4261.3	4136.4	4037.7
45°	3629.0	3590.4	3636.7	3723.0	3861.8	4039.2	4145.6	4128.6	3997.6	3889.6	3753.9
47.5°	3453.1	3406.9	3453.1	3556.5	3712.2	3900.4	3977.5	3900.4	3735.4	3599.6	3490.1
50°	3280.4	3226.4	3271.1	3426.9	3579.6	3724.6	3723.0	3573.4	3474.7	3326.7	3231.0
52.5°	3109.2	3032.1	3076.8	3246.5	3399.2	3564.2	3442.3	3303.5	3184.8	3055.2	3024.4
55°	2897.9	2814.6	2874.8	3121.5	3238.8	3335.9	3141.6	3019.8	2902.5	2837.8	2799.2
57.5°	2697.4	2606.4	2658.9	2950.4	3036.7	3061.4	2882.5	2709.8	2640.4	2618.8	2563.2
60°	2490.8	2387.4	2436.8	2773.0	2833.1	2732.9	2557.1	2422.9	2409.0	2365.8	2322.7
62.5°	2293.3	2179.2	2210.1	2552.4	2580.2	2398.2	2236.3	2200.8	2166.9	2123.7	2100.6
65°	2066.6	1947.9	1991.1	2318.0	2291.8	2057.4	1966.4	1958.7	1914.0	1878.5	1912.4
67.5°	1858.4	1718.1	1778.2	2062.0	1943.3	1752.0	1715.0	1696.5	1661.0	1681.1	1324.8
70°	1630.2	1477.5	1559.2	1785.9	1610.1	1483.7	1469.8	1442.0	1443.6	1147.4	967.0
72.5°	1375.7	1243.1	1361.8	1483.7	1273.9	1236.9	1216.8	1213.8	979.3	795.8	751.1
75°	1152.1	1017.9	1145.9	1192.2	1014.8	990.1	988.6	817.4	643.1	613.8	599.9
77.5°	899.1	795.8	917.6	848.2	778.8	751.1	674.0	505.9	484.3	464.2	174.3
80°	606.1	613.8	684.8	584.5	555.2	473.5	373.2	357.8	308.5	123.4	97.2
82.5°	368.6	462.7	436.5	365.5	357.8	257.6	236.0	120.3	89.5	70.9	61.7
85°	191.2	234.4	225.2	199.0	148.1	132.6	74.0	57.1	46.3	35.5	29.3
87.5°	64.8	86.4	83.3	66.3	50.9	40.1	26.2	21.6	15.4	12.3	10.8
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: P1213879

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8
2.5°	5178.9	5178.9	5175.8	5178.9	5180.5	5177.4	5177.4	5180.5	5182.0	5183.6	5191.3
5°	5186.6	5189.7	5194.4	5203.6	5205.1	5223.7	5231.4	5236.0	5240.6	5242.2	5231.4
7.5°	5203.6	5214.4	5223.7	5222.1	5211.3	5182.0	5172.8	5165.0	5178.9	5214.4	5256.0
10°	5219.0	5169.7	5077.1	5203.6	5165.0	5200.5	5305.4	5328.5	5399.5	5499.7	5529.0
12.5°	5112.6	5248.3	5277.6	5135.7	5397.9	5300.8	5416.4	5518.2	5547.5	5649.3	5587.6
15°	5226.7	5293.1	5337.8	5479.7	5464.2	5547.5	5579.9	5559.9	5564.5	5590.7	5660.1
17.5°	5225.2	5357.8	5387.1	5482.8	5547.5	5549.1	5539.8	5530.6	5555.2	5575.3	5533.6
20°	5314.6	5357.8	5414.9	5453.5	5465.8	5481.2	5510.5	5487.4	5441.1	5396.4	5377.9
22.5°	5269.9	5367.1	5416.4	5422.6	5414.9	5367.1	5323.9	5259.1	5237.5	5214.4	5222.1
25°	5279.2	5323.9	5317.7	5293.1	5260.7	5171.2	5149.6	5121.9	5080.2	4980.0	4889.0
27.5°	5212.9	5189.7	5162.0	5101.8	5043.2	4995.4	4941.4	4852.0	4777.9	4670.0	4629.9
30°	5101.8	5009.3	4941.4	4905.9	4848.9	4768.7	4686.9	4577.4	4483.4	4461.8	4441.7
32.5°	4889.0	4798.0	4742.5	4656.1	4558.9	4463.3	4369.2	4326.1	4306.0	4309.1	4290.6
35°	4671.5	4591.3	4508.0	4378.5	4306.0	4210.4	4176.5	4167.2	4148.7	4128.6	4107.1
37.5°	4440.2	4346.1	4221.2	4144.1	4071.6	4033.0	4016.1	4002.2	3969.8	3934.3	3909.6
40°	4216.6	4046.9	3977.5	3901.9	3880.3	3863.4	3838.7	3804.8	3760.0	3753.9	3743.1
42.5°	3917.4	3795.5	3735.4	3719.9	3693.7	3664.4	3642.8	3605.8	3587.3	3599.6	3608.9
45°	3633.6	3571.9	3551.8	3533.3	3484.0	3442.3	3428.5	3416.1	3431.5	3499.4	3337.5
47.5°	3403.8	3379.1	3354.4	3323.6	3277.3	3246.5	3260.3	3272.7	3286.6	2788.4	2544.7
50°	3204.8	3170.9	3132.3	3098.4	3070.7	3067.6	3140.1	2922.6	2447.6	2435.2	2188.5
52.5°	2987.4	2936.5	2913.3	2893.3	2905.6	2951.9	2442.9	2267.1	2174.6	1889.3	1762.8
55°	2752.9	2708.2	2708.2	2726.7	2660.4	2156.1	2129.9	1841.5	1667.2	1617.8	1597.8
57.5°	2518.5	2513.9	2540.1	2322.7	1957.1	1876.9	1577.7	1514.5	1486.7	1480.6	1448.2
60°	2304.1	2347.3	1964.8	1807.5	1571.6	1417.3	1374.2	1366.4	1337.1	1326.3	1297.0
62.5°	2133.0	1769.0	1647.1	1344.9	1266.2	1246.2	1223.0	1212.2	1186.0	1047.2	306.9
65°	1540.7	1455.9	1181.4	1130.5	1124.3	1095.0	1085.8	976.3	229.8	154.2	131.1
67.5°	1162.9	1031.8	996.3	987.0	957.7	899.1	266.8	152.7	131.1	114.1	100.2
70°	893.0	869.8	843.6	822.0	242.1	151.1	131.1	111.0	95.6	84.8	77.1
72.5°	731.0	715.6	416.4	158.9	129.6	109.5	97.2	84.8	74.0	67.9	61.7
75°	572.2	158.9	131.1	109.5	94.1	80.2	70.9	63.2	57.1	52.4	47.8
77.5°	129.6	104.9	89.5	75.6	67.9	60.1	54.0	46.3	41.6	37.0	30.8
80°	80.2	69.4	58.6	54.0	46.3	38.6	33.9	30.8	24.7	23.1	20.0
82.5°	52.4	41.6	37.0	30.8	24.7	23.1	20.0	15.4	13.9	12.3	10.8
85°	23.1	20.0	17.0	13.9	10.8	9.3	7.7	6.2	6.2	6.2	6.2
87.5°	7.7	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	3.1	3.1
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: P1213879

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8
2.5°	5194.4	5222.1	5248.3	5240.6	5212.9	5169.7	5157.3	5140.4	5152.7	5178.9	5189.7
5°	5231.4	5215.9	5271.5	5353.2	5485.8	5498.2	5590.7	5612.3	5686.3	5732.6	5731.1
7.5°	5283.8	5502.8	5593.8	5692.5	5737.2	5726.4	5740.3	5729.5	5712.6	5704.8	5695.6
10°	5550.6	5717.2	5751.1	5751.1	5681.7	5587.6	5547.5	5478.1	5339.3	5342.4	5319.3
12.5°	5706.4	5765.0	5684.8	5616.9	5337.8	5229.8	5112.6	5057.1	5024.7	4975.3	4993.9
15°	5624.6	5541.4	5493.6	5274.5	5103.4	4909.0	4912.1	4878.2	4842.7	4845.8	4822.7
17.5°	5504.3	5438.0	5098.7	4947.6	4864.3	4788.7	4774.9	4730.1	4707.0	4699.3	4697.7
20°	5339.3	5100.3	4847.3	4810.3	4710.1	4623.7	4609.8	4623.7	4694.7	4568.2	4139.4
22.5°	5146.5	4802.6	4728.6	4623.7	4555.9	4521.9	4606.7	4221.2	3638.2	3709.1	3633.6
25°	4819.6	4670.0	4543.5	4463.3	4455.6	4247.4	3539.5	3465.5	3090.7	2890.2	2665.0
27.5°	4580.5	4515.8	4383.1	4369.2	4269.0	3473.2	3104.6	2697.4	2547.8	2524.7	2475.3
30°	4435.6	4343.0	4262.8	3912.7	3406.9	2796.1	2490.8	2433.7	2407.5	2379.7	2336.5
32.5°	4261.3	4173.4	4211.9	3289.7	2715.9	2407.5	2345.8	2304.1	2256.3	2237.8	2082.1
35°	4083.9	4043.8	3291.2	2765.3	2335.0	2261.0	2214.7	2171.5	1727.3	418.0	141.9
37.5°	3894.2	3885.0	2958.1	2294.9	2186.9	2117.5	1986.4	410.2	97.2	66.3	49.4
40°	3746.2	2959.6	2338.1	2151.5	2063.6	1954.1	274.5	67.9	43.2	26.2	17.0
42.5°	3647.5	2662.0	2092.9	2018.8	1827.6	202.0	69.4	29.3	17.0	13.9	10.8
45°	2811.6	2102.1	1955.6	1878.5	231.3	69.4	40.1	13.9	10.8	9.3	6.2
47.5°	2594.1	1909.3	1823.0	410.2	77.1	37.0	27.8	9.3	6.2	6.2	6.2
50°	1964.8	1764.4	1451.3	100.2	49.4	26.2	20.0	6.2	6.2	6.2	4.6
52.5°	1722.7	1628.6	155.8	66.3	38.6	20.0	12.3	4.6	4.6	4.6	4.6
55°	1574.7	1033.3	92.5	50.9	32.4	18.5	7.7	4.6	4.6	4.6	3.1
57.5°	1440.5	138.8	67.9	43.2	29.3	17.0	4.6	4.6	4.6	4.6	3.1
60°	1221.5	100.2	55.5	38.6	27.8	15.4	4.6	4.6	4.6	4.6	4.6
62.5°	158.9	78.7	47.8	33.9	20.0	12.3	3.1	4.6	4.6	4.6	4.6
65°	115.7	61.7	43.2	23.1	12.3	4.6	3.1	4.6	4.6	4.6	4.6
67.5°	89.5	50.9	32.4	20.0	10.8	3.1	3.1	4.6	4.6	4.6	4.6
70°	70.9	43.2	26.2	17.0	9.3	3.1	3.1	4.6	4.6	4.6	4.6
72.5°	55.5	30.8	18.5	9.3	6.2	3.1	3.1	4.6	4.6	4.6	4.6
75°	41.6	24.7	13.9	7.7	3.1	3.1	3.1	4.6	4.6	4.6	4.6
77.5°	27.8	15.4	10.8	6.2	6.2	6.2	7.7	7.7	4.6	4.6	4.6
80°	18.5	10.8	7.7	7.7	7.7	6.2	7.7	7.7	4.6	7.7	4.6
82.5°	9.3	7.7	7.7	6.2	6.2	4.6	6.2	6.2	6.2	6.2	4.6
85°	6.2	4.6	4.6	4.6	4.6	4.6	4.6	4.6	6.2	6.2	4.6
87.5°	3.1	3.1	3.1	3.1	4.6	4.6	4.6	4.6	6.2	6.2	4.6
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: P1213879

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8
2.5°	5175.8	5180.5	5168.1	5234.4	5200.5	5203.6	5217.5	5182.0	5189.7	5165.0	5148.1
5°	5737.2	5746.5	5755.7	5758.8	5765.0	5772.7	5763.4	5758.8	5749.6	5718.7	5686.3
7.5°	5649.3	5638.5	5633.9	5640.1	5650.9	5655.5	5647.8	5658.6	5698.7	5715.6	5726.4
10°	5186.6	5137.3	5171.2	5166.6	5128.0	5257.6	5222.1	5242.2	5256.0	5397.9	5484.3
12.5°	4966.1	4996.9	4938.3	4909.0	4947.6	4973.8	5000.0	4944.5	5021.6	4986.1	5100.3
15°	4781.0	4762.5	4756.3	4757.9	4750.2	4787.2	4796.4	4808.8	4819.6	4867.4	4885.9
17.5°	4697.7	4728.6	4740.9	4750.2	4734.8	4717.8	4700.8	4676.1	4683.9	4671.5	4707.0
20°	3851.0	3747.7	3741.5	3801.7	3735.4	3772.4	3861.8	4460.2	4440.2	4673.1	4594.4
22.5°	3214.1	3116.9	3033.6	2961.1	3064.5	3107.7	3274.2	3462.4	3767.8	3719.9	4051.5
25°	2624.9	2589.5	2567.9	2557.1	2564.8	2561.7	2598.7	2686.6	2825.4	3152.4	3575.0
27.5°	2455.3	2438.3	2430.6	2405.9	2424.4	2418.3	2447.6	2466.1	2507.7	2540.1	2677.4
30°	2321.1	2301.1	2287.2	2261.0	2279.5	2281.0	2290.3	2338.1	2355.0	2382.8	2426.0
32.5°	848.2	499.7	468.8	445.7	487.4	635.4	1115.1	1949.4	2223.9	2245.5	2294.9
35°	83.3	69.4	61.7	61.7	63.2	69.4	92.5	243.7	445.7	1722.7	2156.1
37.5°	32.4	27.8	23.1	21.6	23.1	26.2	35.5	46.3	63.2	131.1	584.5
40°	13.9	12.3	10.8	10.8	10.8	10.8	12.3	15.4	23.1	43.2	67.9
42.5°	9.3	7.7	7.7	7.7	7.7	7.7	7.7	7.7	10.8	13.9	27.8
45°	6.2	4.6	4.6	4.6	4.6	4.6	4.6	4.6	6.2	7.7	12.3
47.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	6.2
50°	4.6	4.6	4.6	4.6	3.1	4.6	3.1	4.6	4.6	4.6	4.6
52.5°	4.6	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.6	4.6
55°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.6
57.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
60°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
62.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.6	4.6	3.1
65°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.6	3.1
67.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
70°	4.6	4.6	3.1	4.6	3.1	3.1	4.6	4.6	4.6	3.1	3.1
72.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	9.3	9.3	6.2
75°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	7.7	9.3	7.7
77.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	7.7	7.7	7.7
80°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	6.2	6.2	6.2
82.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	6.2	6.2	6.2
85°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
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: P1213879

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8
2.5°	5118.8	5117.2	5149.6	5174.3	5165.0	5174.3	5185.1	5186.6	5189.7	5177.4	5172.8
5°	5624.6	5576.8	5484.3	5418.0	5340.9	5200.5	5131.1	5138.8	5140.4	5135.7	5141.9
7.5°	5721.8	5717.2	5684.8	5670.9	5618.5	5518.2	5357.8	5330.1	5262.2	5219.0	5183.6
10°	5478.1	5589.2	5618.5	5667.8	5698.7	5680.2	5544.4	5524.4	5481.2	5431.9	5442.7
12.5°	5214.4	5305.4	5310.0	5578.4	5638.5	5644.7	5592.3	5620.0	5626.2	5515.1	5450.4
15°	4890.5	4933.7	5024.7	5274.5	5456.5	5570.7	5604.6	5620.0	5544.4	5539.8	5513.6
17.5°	4748.6	4776.4	4818.0	4958.4	5234.4	5402.6	5546.0	5535.2	5564.5	5542.9	5476.6
20°	4569.7	4592.9	4666.9	4737.8	4873.6	5097.2	5365.5	5385.6	5424.1	5419.5	5438.0
22.5°	4566.6	4484.9	4497.2	4552.8	4694.7	4895.2	5180.5	5246.8	5271.5	5288.4	5308.5
25°	3622.8	4272.1	4390.8	4426.3	4518.8	4636.1	4972.3	4996.9	5043.2	5118.8	5174.3
27.5°	3138.5	3579.6	4054.6	4301.4	4360.0	4457.1	4657.6	4694.7	4852.0	4870.5	4956.8
30°	2476.9	2817.7	3527.2	4120.9	4218.1	4286.0	4427.8	4501.9	4569.7	4643.8	4734.8
32.5°	2330.4	2384.3	2777.6	3409.9	4165.7	4114.8	4219.6	4264.4	4338.4	4403.2	4469.5
35°	2196.2	2233.2	2316.5	2793.0	3393.0	3974.4	4045.4	4074.7	4116.3	4165.7	4213.5
37.5°	2055.8	2111.4	2168.4	2296.4	3138.5	3863.4	3861.8	3895.8	3920.4	3962.1	4002.2
40°	373.2	1938.6	2031.2	2114.4	2433.7	3081.4	3689.1	3704.5	3721.5	3747.7	3789.3
42.5°	60.1	323.9	1903.2	1983.4	2074.3	2759.1	3610.4	3547.2	3536.4	3554.9	3591.9
45°	30.8	78.7	382.5	1852.3	1934.0	2200.8	2951.9	3437.7	3426.9	3391.4	3399.2
47.5°	23.1	49.4	94.1	640.0	1810.6	1889.3	2723.6	2694.3	2899.5	3292.7	3232.6
50°	20.0	33.9	55.5	131.1	1599.3	1739.7	2097.5	2450.7	2558.6	2572.5	3044.4
52.5°	18.5	23.1	40.1	84.8	336.2	1608.6	1705.7	1829.1	2011.1	2401.3	2392.1
55°	17.0	21.6	33.9	57.1	117.2	1449.7	1550.0	1573.1	1611.7	1798.3	2045.0
57.5°	9.3	20.0	32.4	49.4	87.9	265.3	1406.5	1425.1	1455.9	1463.6	1551.5
60°	4.6	18.5	29.3	43.2	64.8	123.4	1264.7	1286.2	1304.8	1307.8	1335.6
62.5°	3.1	17.0	24.7	40.1	54.0	87.9	299.2	610.7	1161.3	1161.3	1193.7
65°	3.1	12.3	15.4	26.2	49.4	72.5	126.5	146.5	285.3	701.7	1047.2
67.5°	3.1	4.6	13.9	21.6	37.0	55.5	92.5	108.0	129.6	148.1	274.5
70°	3.1	3.1	12.3	13.9	23.1	41.6	66.3	75.6	87.9	100.2	115.7
72.5°	3.1	3.1	10.8	10.8	15.4	27.8	50.9	55.5	63.2	70.9	81.7
75°	7.7	6.2	9.3	9.3	10.8	21.6	38.6	43.2	46.3	52.4	60.1
77.5°	7.7	7.7	7.7	7.7	7.7	13.9	24.7	27.8	32.4	35.5	41.6
80°	6.2	6.2	6.2	7.7	7.7	9.3	15.4	17.0	18.5	23.1	24.7
82.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	9.3	10.8	13.9
85°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	6.2	6.2	6.2	6.2
87.5°	4.6	4.6	4.6	3.1	3.1	4.6	4.6	4.6	4.6	4.6	4.6
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: P1213879

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8	5138.8
2.5°	5171.2	5162.0	5154.3	5158.9	5145.0	5138.8	5143.5	5145.0	5148.1	5155.8	5157.3
5°	5157.3	5154.3	5168.1	5175.8	5172.8	5175.8	5175.8	5169.7	5160.4	5166.6	5152.7
7.5°	5148.1	5128.0	5112.6	5115.7	5100.3	5118.8	5135.7	5160.4	5168.1	5168.1	5152.7
10°	5306.9	5285.3	5199.0	5140.4	5101.8	5067.9	5148.1	5066.3	5104.9	4958.4	5126.5
12.5°	5438.0	5467.3	5428.8	5268.4	5240.6	5138.8	5197.4	5097.2	5067.9	4899.8	4953.8
15°	5490.5	5434.9	5422.6	5377.9	5317.7	5288.4	5131.1	5114.2	5066.3	5084.8	5013.9
17.5°	5444.2	5472.0	5434.9	5405.6	5344.0	5274.5	5180.5	5097.2	5030.9	4882.8	5007.7
20°	5399.5	5436.5	5325.4	5344.0	5350.1	5269.9	5220.6	5151.2	5067.9	4929.1	4821.1
22.5°	5325.4	5299.2	5308.5	5280.7	5257.6	5268.4	5200.5	5152.7	5012.4	4949.1	4802.6
25°	5205.1	5195.9	5220.6	5217.5	5162.0	5143.5	5109.5	5058.6	5003.1	4901.3	4781.0
27.5°	5009.3	5057.1	5100.3	5120.3	5091.0	5041.7	5023.2	4993.9	4955.3	4852.0	4762.5
30°	4802.6	4856.6	4905.9	4949.1	4975.3	4953.8	4936.8	4919.8	4861.2	4793.4	4693.1
32.5°	4566.6	4637.6	4705.5	4757.9	4815.0	4831.9	4819.6	4805.7	4756.3	4694.7	4614.5
35°	4293.7	4390.8	4489.5	4583.6	4608.3	4648.4	4688.5	4665.4	4639.1	4577.4	4503.4
37.5°	4062.3	4131.7	4202.7	4321.4	4407.8	4458.7	4529.6	4538.9	4494.2	4464.9	4367.7
40°	3823.3	3886.5	3989.8	4059.2	4178.0	4236.6	4312.2	4346.1	4335.3	4318.3	4233.5
42.5°	3635.1	3666.0	3733.8	3795.5	3912.7	4033.0	4099.3	4136.4	4174.9	4161.0	4117.8
45°	3434.6	3462.4	3485.5	3539.5	3653.6	3760.0	3841.8	3897.3	3966.7	3999.1	3946.7
47.5°	3235.7	3243.4	3271.1	3315.9	3383.7	3465.5	3602.7	3686.0	3750.8	3814.0	3780.1
50°	3083.0	3055.2	3059.9	3087.6	3143.1	3223.3	3322.0	3439.3	3513.3	3590.4	3598.1
52.5°	2694.3	2919.5	2865.5	2881.0	2910.3	2948.8	3052.1	3167.8	3258.8	3325.1	3391.4
55°	2261.0	2305.7	2739.1	2677.4	2695.9	2729.8	2777.6	2893.3	2981.2	3073.7	3166.3
57.5°	1753.6	2086.7	2103.7	2504.6	2495.4	2498.5	2538.6	2604.9	2692.8	2808.5	2887.1
60°	1363.4	1503.7	1776.7	1915.5	2267.1	2279.5	2302.6	2341.2	2416.7	2526.2	2651.2
62.5°	1203.0	1221.5	1318.6	1526.8	1755.1	2031.2	2080.5	2086.7	2120.6	2230.1	2375.1
65°	1056.5	1068.8	1098.1	1119.7	1310.9	1577.7	1815.2	1853.8	1875.4	1940.2	2063.6
67.5°	727.9	920.7	947.0	962.4	980.9	1104.3	1398.8	1594.7	1619.4	1676.4	1784.4
70°	140.3	291.5	797.4	814.3	823.6	851.3	899.1	1210.7	1374.2	1428.1	1477.5
72.5°	95.6	112.6	135.7	320.8	678.6	694.0	704.8	744.9	1021.0	1178.3	1204.5
75°	69.4	77.1	91.0	112.6	138.8	451.9	559.8	579.9	599.9	828.2	960.8
77.5°	49.4	55.5	61.7	72.5	84.8	109.5	157.3	433.4	453.4	464.2	655.5
80°	27.8	33.9	41.6	47.8	54.0	61.7	80.2	100.2	223.6	327.0	343.9
82.5°	15.4	18.5	21.6	26.2	29.3	37.0	44.7	54.0	70.9	104.9	222.1
85°	7.7	7.7	7.7	10.8	12.3	17.0	20.0	23.1	32.4	44.7	61.7
87.5°	4.6	4.6	6.2	6.2	6.2	7.7	7.7	7.7	9.3	13.9	20.0
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: P1213879

CATALOG NUMBER: 4SNLED-LD5-76SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	5138.8	5138.8	5138.8	5138.8	5138.8
2.5°	5158.9	5154.3	5154.3	5172.8	5168.1
5°	5149.6	5145.0	5143.5	5163.5	5154.3
7.5°	5141.9	5124.9	5120.3	5138.8	5131.1
10°	5111.1	5098.7	5106.4	5100.3	5097.2
12.5°	5058.6	5050.9	5018.5	5021.6	5047.8
15°	4964.6	4995.4	4939.9	4989.2	5000.0
17.5°	4791.8	4861.2	4915.2	4944.5	4949.1
20°	4868.9	4892.1	4864.3	4865.8	4884.4
22.5°	4768.7	4779.5	4787.2	4777.9	4818.0
25°	4608.3	4566.6	4656.1	4674.6	4739.4
27.5°	4558.9	4525.0	4566.6	4563.6	4617.5
30°	4518.8	4409.3	4427.8	4457.1	4523.5
32.5°	4461.8	4289.0	4270.5	4335.3	4409.3
35°	4361.5	4198.0	4154.9	4196.5	4307.5
37.5°	4276.7	4071.6	3985.2	4040.7	4185.7
40°	4150.2	3972.9	3838.7	3888.1	4059.2
42.5°	3999.1	3888.1	3681.4	3715.3	3911.2
45°	3846.4	3747.7	3528.7	3545.7	3778.6
47.5°	3690.6	3599.6	3369.9	3372.9	3608.9
50°	3538.0	3417.7	3228.0	3174.0	3428.5
52.5°	3339.0	3228.0	3084.5	2996.6	3257.3
55°	3150.8	3025.9	2921.1	2785.3	3062.9
57.5°	2967.3	2828.5	2757.6	2583.3	2842.4
60°	2715.9	2649.6	2544.7	2378.2	2643.4
62.5°	2458.4	2436.8	2330.4	2157.6	2398.2
65°	2157.6	2208.5	2099.0	1951.0	2143.7
67.5°	1873.9	1964.8	1844.5	1753.6	1898.5
70°	1571.6	1676.4	1608.6	1576.2	1637.9
72.5°	1273.9	1375.7	1381.9	1358.7	1378.8
75°	984.0	1096.6	1158.2	1122.8	1127.4
77.5°	746.5	800.4	868.3	896.1	889.9
80°	461.1	555.2	610.7	667.8	647.8
82.5°	232.9	311.5	379.4	441.1	411.8
85°	97.2	124.9	174.3	229.8	220.5
87.5°	29.3	49.4	52.4	74.0	69.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)