

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **8SNLED-LD5-78SL-RM-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33524)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-78SL-RM-UNV-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

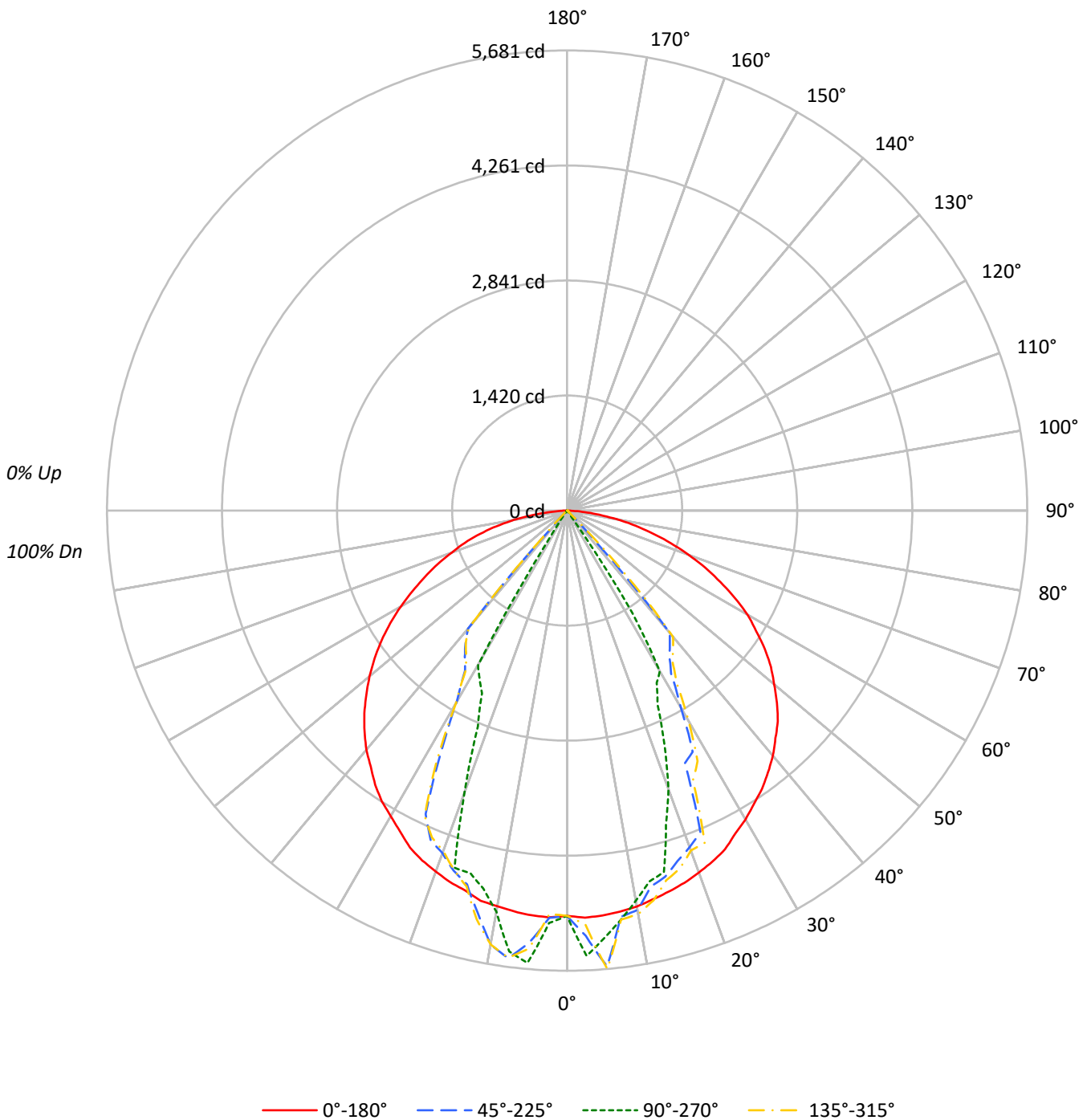
Lumens per Lamp: N/A
Luminaire Lumens: 7113.0 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 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	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					100			
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65					65			
5	85	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45					45			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	20212	20212	20212	20212
5°	20323	20788	20316	22014
10°	20302	18811	20290	19354
15°	20275	17558	20225	17604
20°	20329	13829	20271	14000
25°	20420	10008	20320	9444
30°	20361	8779	20145	8439
35°	20459	193	20159	235
40°	20572	42	20080	42
45°	20694	25	19917	19
50°	20595	20	19650	20
55°	20545	14	19283	14
60°	20247	15	18664	15
65°	19304	24	17930	16
70°	18060	26	17193	26
75°	16189	29	16455	29
80°	13479	33	14248	33
85°	8445	39	8622	39



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.9	7.1
10°-20°	1368.9	19.2
20°-30°	1742.0	24.5
30°-40°	1471.5	20.7
40°-50°	962.0	13.5
50°-60°	606.1	8.5
60°-70°	322.7	4.5
70°-80°	117.6	1.7
80°-90°	20.2	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°	3612.8	50.8
0°-40°	5084.3	71.5
0°-60°	6652.4	93.5
0°-90°	7113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7113.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5002	5002	5002	5002	5002	
5°	5017	5294	5016	5606	5017	477
15°	4867	4620	4855	4632	4867	1376
25°	4614	2638	4591	2489	4614	2122
35°	4193	50	4132	60	4193	2623
45°	3678	6	3540	4	3678	2829
55°	2982	3	2798	3	2982	2657
65°	2087	4	1938	3	2087	2067
75°	1098	4	1116	4	1098	1165
85°	215	4	219	4	215	271
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°	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4
2.5°	5030.9	5033.9	5035.4	5038.4	5042.9	5044.4	5047.4	5044.4	5044.4	5044.4	5044.4
5°	5017.4	5023.4	5027.9	5033.9	5044.4	5045.9	5057.9	5059.4	5065.4	5077.5	5086.5
7.5°	4994.9	5000.9	5009.9	5024.9	5039.9	5056.4	5077.5	5100.0	5131.5	5161.5	5199.1
10°	4961.9	4969.4	4979.9	4993.4	5067.0	5077.5	5124.0	5188.6	5206.6	5301.2	5371.7
12.5°	4913.8	4939.3	4966.4	4978.4	5048.9	5160.0	5316.2	5284.6	5250.1	5559.4	5554.9
15°	4867.3	4901.8	4888.3	4985.9	5050.4	5244.1	5178.0	5319.2	5577.4	5514.3	5517.3
17.5°	4817.7	4825.2	4900.3	4981.4	5097.0	5196.1	5277.1	5470.8	5521.8	5526.4	5470.8
20°	4754.7	4790.7	4900.3	4973.9	5169.0	5215.6	5391.2	5490.3	5469.3	5418.3	5323.7
22.5°	4690.1	4799.7	4910.8	5014.4	5151.0	5275.6	5362.7	5409.3	5299.7	5098.5	4990.4
25°	4613.6	4678.1	4823.7	4975.4	5146.5	5218.6	5269.6	5194.6	5051.9	4871.8	4690.1
27.5°	4494.9	4598.5	4784.7	4955.9	5110.5	5197.6	5115.0	4934.8	4705.1	4586.5	4504.0
30°	4403.4	4538.5	4691.6	4856.8	5017.4	5068.5	4858.3	4652.6	4494.9	4376.3	4358.3
32.5°	4292.3	4484.4	4630.1	4787.7	4922.8	4855.3	4651.1	4385.4	4254.7	4209.7	4227.7
35°	4193.2	4338.8	4529.5	4684.1	4781.7	4630.1	4307.3	4142.1	4079.1	4104.6	4071.6
37.5°	4074.6	4266.7	4442.4	4576.0	4543.0	4314.8	4041.5	3936.5	3944.0	3922.9	3859.9
40°	3951.5	4134.6	4317.8	4443.9	4328.3	3980.0	3798.3	3775.8	3780.3	3712.8	3622.7
42.5°	3807.3	3974.0	4157.2	4271.3	4022.0	3750.3	3627.2	3630.2	3591.2	3496.6	3448.5
45°	3678.2	3831.4	4022.0	4032.5	3726.3	3499.6	3463.5	3424.5	3337.4	3305.9	3269.9
47.5°	3513.1	3682.7	3840.4	3783.3	3436.5	3295.4	3268.4	3182.8	3139.3	3115.2	3085.2
50°	3337.4	3508.6	3652.7	3490.6	3163.3	3130.2	3041.7	2974.1	2944.1	2918.6	2891.5
52.5°	3170.8	3311.9	3459.0	3179.8	2953.1	2921.6	2821.0	2781.9	2751.9	2723.4	2717.4
55°	2981.6	3106.2	3206.8	2884.0	2751.9	2678.4	2606.3	2579.3	2550.7	2537.2	2559.7
57.5°	2766.9	2908.1	2893.0	2592.8	2534.2	2427.6	2400.6	2382.6	2361.6	2370.6	2182.9
60°	2573.3	2681.4	2607.8	2379.6	2280.5	2208.4	2184.4	2172.4	2184.4	2001.3	1759.5
62.5°	2334.6	2456.2	2307.5	2130.4	2025.3	1990.7	1969.7	1986.2	1810.6	1609.4	1550.9
65°	2086.8	2218.9	1999.8	1863.1	1797.1	1767.1	1765.6	1625.9	1453.3	1375.2	1375.2
67.5°	1848.1	1984.7	1702.5	1588.4	1562.9	1565.9	1478.8	1267.1	1219.1	1166.5	1014.9
70°	1594.4	1714.5	1406.7	1337.7	1322.7	1312.2	1100.5	1043.4	986.4	846.7	834.7
72.5°	1342.2	1400.7	1130.5	1114.0	1111.0	923.3	881.3	783.7	717.6	701.1	693.6
75°	1097.5	1079.4	893.3	908.3	765.7	699.6	632.1	575.0	566.0	560.0	139.6
77.5°	866.3	776.2	704.1	612.5	548.0	465.4	451.9	442.9	291.3	105.1	85.6
80°	630.6	502.9	468.4	397.8	339.3	325.8	333.3	102.1	81.1	67.6	58.6
82.5°	400.9	321.3	262.7	229.7	223.7	97.6	72.1	58.6	51.0	43.5	36.0
85°	214.7	142.6	132.1	111.1	66.1	45.0	37.5	28.5	24.0	19.5	18.0
87.5°	67.6	57.1	46.5	37.5	22.5	15.0	12.0	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°	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4
2.5°	5041.4	5044.4	5042.9	5047.4	5047.4	5053.4	5057.9	5062.4	5071.5	5076.0	5110.5
5°	5106.0	5113.5	5136.0	5157.0	5182.6	5190.1	5233.6	5244.1	5295.2	5301.2	5469.3
7.5°	5250.1	5278.6	5332.7	5386.7	5440.8	5475.3	5535.4	5572.9	5613.4	5649.5	5783.1
10°	5424.3	5472.3	5524.9	5578.9	5610.4	5676.5	5712.5	5718.5	5708.0	5649.5	5433.3
12.5°	5595.4	5643.5	5620.9	5631.4	5669.0	5551.9	5568.4	5484.3	5542.9	5253.1	5038.4
15°	5571.4	5568.4	5512.8	5332.7	5362.7	5139.0	5048.9	4979.9	5035.4	5005.4	4972.4
17.5°	5499.3	5362.7	5266.6	5050.4	4958.9	4895.8	4897.3	4898.8	4871.8	4900.3	4816.2
20°	5194.6	5041.4	4898.8	4822.2	4795.2	4750.2	4772.7	4750.2	4751.7	4760.7	4631.6
22.5°	4789.2	4742.7	4660.1	4684.1	4675.1	4715.6	4685.6	4639.1	4654.1	4586.5	4488.9
25°	4625.6	4571.5	4568.5	4577.5	4564.0	4546.0	4519.0	4448.4	4443.9	4422.9	4377.8
27.5°	4460.4	4463.4	4472.4	4445.4	4397.4	4361.3	4320.8	4286.3	4299.8	4275.8	4214.2
30°	4346.3	4344.8	4290.8	4266.7	4178.2	4179.7	4169.2	4148.1	4134.6	4136.1	4097.1
32.5°	4184.2	4137.6	4076.1	4046.1	4038.5	4011.5	3990.5	3995.0	4005.5	3968.0	4008.5
35°	4017.5	3921.4	3912.4	3886.9	3862.9	3844.9	3852.4	3822.4	3820.9	3816.4	3486.1
37.5°	3793.8	3747.3	3742.8	3715.8	3699.2	3694.7	3666.2	3670.7	3684.2	3708.3	2972.6
40°	3609.2	3567.1	3556.6	3555.1	3519.1	3516.1	3523.6	3552.1	3571.6	3421.5	2833.0
42.5°	3411.0	3414.0	3381.0	3360.0	3364.5	3378.0	3414.0	3314.9	2872.0	2736.9	2589.8
45°	3241.3	3226.3	3208.3	3202.3	3241.3	3214.3	2818.0	2600.3	2547.7	2541.7	2128.9
47.5°	3064.2	3059.7	3052.2	3056.7	2834.5	2526.7	2436.6	2408.1	2417.1	2411.1	1828.6
50°	2885.5	2891.5	2891.5	2525.2	2318.0	2267.0	2274.5	2300.0	2140.9	1998.3	1704.0
52.5°	2730.9	2684.4	2300.0	2167.9	2121.4	2143.9	2089.8	1890.2	1746.0	1662.0	1576.4
55°	2444.1	2101.8	2016.3	1995.3	2011.8	1812.1	1689.0	1559.9	1522.3	1513.3	1463.8
57.5°	1923.2	1854.1	1861.6	1777.6	1586.9	1474.3	1424.8	1406.7	1390.2	1378.2	120.1
60°	1701.0	1720.5	1574.9	1394.7	1318.2	1303.1	1291.1	1274.6	1271.6	1250.6	76.6
62.5°	1556.9	1369.2	1243.1	1198.1	1180.0	1175.5	1153.0	1145.5	972.9	133.6	57.1
65°	1174.0	1097.5	1073.4	1062.9	1043.4	1043.4	866.3	136.6	111.1	96.1	51.0
67.5°	957.8	951.8	939.8	926.3	630.6	132.1	115.6	100.6	87.1	76.6	45.0
70°	810.7	807.7	735.6	135.1	112.6	99.1	87.1	78.1	72.1	64.6	40.5
72.5°	665.1	135.1	114.1	99.1	85.6	78.1	70.6	63.1	57.1	52.5	33.0
75°	103.6	91.6	81.1	73.6	67.6	60.1	54.0	49.5	48.0	42.0	22.5
77.5°	75.1	64.6	58.6	52.5	46.5	42.0	36.0	31.5	28.5	24.0	16.5
80°	52.5	46.5	42.0	34.5	30.0	25.5	22.5	19.5	18.0	15.0	7.5
82.5°	30.0	25.5	22.5	18.0	16.5	13.5	12.0	10.5	10.5	7.5	7.5
85°	13.5	13.5	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°	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4
2.5°	5158.5	5178.0	5215.6	5254.6	5211.1	5367.2	5355.2	5407.7	5436.3	5449.8	5481.3
5°	5617.9	5705.0	5733.5	5648.0	5598.4	5547.4	5431.8	5344.7	5355.2	5326.7	5223.1
7.5°	5608.9	5422.8	5172.0	5057.9	5048.9	5035.4	5071.5	5092.5	5095.5	5094.0	5091.0
10°	5134.5	5038.4	5021.9	5006.9	5012.9	4957.4	4931.8	4859.8	4898.8	4877.8	4885.3
12.5°	4990.4	4967.9	4879.3	4756.2	4829.7	4774.2	4742.7	4763.7	4739.7	4717.1	4709.6
15°	4904.8	4759.2	4709.6	4679.6	4658.6	4646.6	4657.1	4633.1	4625.6	4621.1	4631.6
17.5°	4727.7	4669.1	4615.1	4535.5	4537.0	4532.5	4562.5	4607.5	4610.5	4379.3	4170.7
20°	4588.0	4540.0	4470.9	4421.4	4488.9	4368.8	3904.9	3684.2	3649.7	3649.7	3655.7
22.5°	4476.9	4370.3	4374.8	4296.8	3664.7	3535.6	3538.6	3552.1	3490.6	3280.4	3257.9
25°	4325.3	4308.8	3980.0	3439.5	3444.0	3343.4	3188.8	2971.1	2735.4	2735.4	2696.4
27.5°	4211.2	3861.4	3381.0	3358.4	3020.7	2807.5	2675.3	2475.7	2448.7	2423.1	2426.1
30°	4113.6	3266.9	3278.9	2807.5	2558.2	2381.1	2370.6	2337.6	2321.0	2316.5	2300.0
32.5°	3251.9	3181.3	2744.4	2390.1	2292.5	2264.0	2250.5	2212.9	2211.4	2182.9	1984.7
35°	3049.2	2792.5	2297.0	2200.9	2172.4	2145.4	2122.9	1424.8	168.1	67.6	58.6
37.5°	2818.0	2333.0	2124.4	2080.8	2053.8	1517.8	151.6	52.5	37.5	27.0	24.0
40°	2388.6	2083.8	2017.8	1969.7	812.2	52.5	33.0	25.5	15.0	13.5	12.0
42.5°	2014.8	1963.7	1893.2	576.5	60.1	25.5	16.5	12.0	10.5	10.5	9.0
45°	1885.7	1840.6	762.7	57.1	37.5	12.0	10.5	10.5	9.0	6.0	6.0
47.5°	1765.6	1553.9	69.1	36.0	24.0	10.5	9.0	6.0	6.0	6.0	4.5
50°	1637.9	85.6	48.0	27.0	15.0	6.0	6.0	6.0	6.0	4.5	4.5
52.5°	306.3	60.1	39.0	24.0	7.5	6.0	6.0	6.0	4.5	4.5	4.5
55°	72.1	48.0	36.0	21.0	6.0	6.0	6.0	4.5	4.5	4.5	3.0
57.5°	54.0	36.0	28.5	19.5	6.0	4.5	4.5	4.5	4.5	4.5	3.0
60°	45.0	25.5	22.5	18.0	4.5	4.5	4.5	4.5	4.5	4.5	3.0
62.5°	31.5	21.0	16.5	13.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
65°	25.5	16.5	13.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
67.5°	22.5	13.5	9.0	3.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5
70°	18.0	4.5	4.5	3.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5
72.5°	15.0	4.5	3.0	3.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5
75°	15.0	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: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4
2.5°	5496.3	5502.3	5407.7	5374.7	5403.2	5397.2	5371.7	5277.1	5266.6	5203.6	5112.0
5°	5253.1	5293.6	5244.1	5329.7	5289.1	5329.7	5452.8	5509.8	5602.9	5660.0	5681.0
7.5°	5083.5	5092.5	5092.5	5100.0	5107.5	5109.0	5100.0	5094.0	5068.5	5036.9	5094.0
10°	4877.8	4888.3	4906.3	4903.3	4901.8	4933.3	4940.8	5005.4	5002.4	5014.4	5057.9
12.5°	4771.2	4690.1	4763.7	4744.2	4771.2	4729.2	4807.2	4793.7	4798.2	4834.2	4927.3
15°	4594.0	4619.6	4637.6	4637.6	4648.1	4639.1	4630.1	4691.6	4729.2	4730.7	4724.6
17.5°	4253.2	4059.6	4257.7	4206.7	4613.6	4624.1	4589.5	4561.0	4561.0	4583.5	4631.6
20°	3651.2	3655.7	3657.2	3676.7	3700.8	3699.2	3700.8	4292.3	4573.0	4508.5	4464.9
22.5°	3200.8	3145.3	3248.9	3241.3	3370.5	3513.1	3649.7	3636.2	3645.2	4062.6	4437.9
25°	2565.8	2637.8	2579.3	2604.8	2750.4	2920.1	3025.2	3299.9	3598.7	3577.6	3675.2
27.5°	2415.6	2396.1	2423.1	2423.1	2442.6	2465.2	2523.7	2678.4	2944.1	3223.3	3487.6
30°	2273.0	2289.5	2292.5	2319.5	2334.6	2349.6	2358.6	2417.1	2477.2	2670.8	2996.6
32.5°	1707.0	1496.8	1969.7	2097.3	2205.4	2231.0	2249.0	2273.0	2316.5	2345.1	2508.7
35°	49.5	49.5	52.5	60.1	76.6	516.5	1966.7	2167.9	2196.4	2232.5	2262.5
37.5°	24.0	18.0	21.0	22.5	27.0	37.5	54.0	168.1	1872.1	2116.9	2149.9
40°	10.5	10.5	10.5	10.5	12.0	15.0	22.5	37.5	57.1	1505.8	2031.3
42.5°	9.0	9.0	9.0	9.0	9.0	9.0	10.5	13.5	27.0	64.6	1065.9
45°	6.0	6.0	4.5	6.0	6.0	7.5	9.0	9.0	12.0	40.5	73.6
47.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	7.5	9.0	27.0	39.0
50°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	21.0	27.0
52.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	9.0	24.0
55°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	4.5	6.0	21.0
57.5°	3.0	3.0	3.0	3.0	3.0	4.5	3.0	3.0	4.5	4.5	19.5
60°	3.0	3.0	3.0	3.0	3.0	4.5	4.5	4.5	4.5	4.5	18.0
62.5°	4.5	4.5	3.0	4.5	3.0	3.0	4.5	4.5	4.5	4.5	12.0
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: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4
2.5°	5119.5	5068.5	5051.9	5017.4	5014.4	5017.4	5009.9	4999.4	5005.4	4994.9	4985.9
5°	5693.0	5556.4	5467.8	5349.2	5185.6	5149.5	5140.5	5089.5	5071.5	5065.4	5041.4
7.5°	5229.1	5478.3	5628.4	5679.5	5487.3	5442.3	5389.7	5347.7	5307.2	5230.6	5184.1
10°	5023.4	5035.4	5179.5	5347.7	5620.9	5658.5	5687.0	5595.4	5569.9	5374.7	5332.7
12.5°	4975.4	4976.9	4993.4	5095.5	5310.2	5334.2	5434.8	5488.8	5554.9	5592.4	5562.4
15°	4756.2	4877.8	4967.9	4976.9	4996.4	5038.4	5068.5	5256.1	5335.7	5548.9	5536.9
17.5°	4654.1	4693.1	4823.7	4930.3	4912.3	4897.3	4921.3	4946.8	5023.4	5236.6	5233.6
20°	4484.4	4609.0	4679.6	4790.7	4891.3	4895.8	4868.8	4853.8	4823.7	4858.3	4889.8
22.5°	4412.4	4431.9	4564.0	4642.1	4756.2	4796.7	4802.7	4804.2	4787.7	4769.7	4760.7
25°	4404.9	4343.3	4410.9	4508.5	4592.5	4636.1	4685.6	4702.1	4696.1	4696.1	4687.1
27.5°	3604.7	4323.8	4287.8	4352.3	4454.4	4484.4	4510.0	4561.0	4592.5	4615.1	4625.6
30°	3433.5	3562.6	4191.7	4200.7	4304.3	4301.3	4329.8	4371.8	4412.4	4464.9	4478.4
32.5°	3037.2	3353.9	3837.4	4049.1	4157.2	4167.7	4182.7	4194.7	4232.2	4290.8	4341.8
35°	2433.6	3055.2	3287.9	3977.0	3996.5	4017.5	4026.5	4055.1	4067.1	4091.1	4136.1
37.5°	2202.4	2525.2	3154.3	3439.5	3811.8	3829.9	3877.9	3889.9	3909.4	3929.0	3963.5
40°	2068.8	2157.4	2625.8	3071.7	3663.2	3675.2	3691.7	3721.8	3723.3	3745.8	3777.3
42.5°	1962.2	2019.3	2155.9	2933.6	3558.1	3556.6	3517.6	3537.1	3546.1	3570.1	3613.7
45°	1567.4	1894.7	1981.7	2396.1	2833.0	3037.2	3429.0	3364.5	3363.0	3372.0	3418.5
47.5°	79.6	1782.1	1843.6	1977.2	2675.3	2682.9	2733.9	3163.3	3229.3	3208.3	3212.8
50°	54.0	123.1	1717.5	1779.1	2306.0	2492.2	2529.7	2549.2	2797.0	3073.2	3028.2
52.5°	42.0	70.6	1052.4	1651.5	1873.6	2010.3	2252.0	2390.1	2405.1	2516.2	2893.0
55°	37.5	54.0	114.1	1523.8	1592.9	1622.9	1764.0	2005.8	2200.9	2259.5	2264.0
57.5°	33.0	49.5	78.1	689.1	1448.8	1454.8	1478.8	1562.9	1738.5	1899.2	2080.8
60°	30.0	43.5	61.6	118.6	1316.7	1331.7	1336.2	1358.7	1379.7	1489.3	1698.0
62.5°	18.0	34.5	54.0	85.6	1041.9	1196.6	1195.0	1210.1	1229.6	1241.6	1283.6
65°	15.0	27.0	46.5	72.1	127.6	159.1	966.8	1074.9	1087.0	1103.5	1111.0
67.5°	13.5	24.0	34.5	57.1	96.1	109.6	126.1	156.1	852.7	960.8	975.9
70°	12.0	16.5	28.5	48.0	78.1	84.1	94.6	108.1	127.6	157.6	771.7
72.5°	7.5	12.0	19.5	34.5	60.1	67.6	73.6	82.6	91.6	109.6	126.1
75°	3.0	9.0	16.5	25.5	46.5	51.0	55.5	61.6	69.1	81.1	90.1
77.5°	3.0	7.5	13.5	18.0	30.0	34.5	40.5	45.0	51.0	57.1	66.1
80°	10.5	6.0	9.0	13.5	21.0	22.5	25.5	28.5	33.0	37.5	43.5
82.5°	7.5	9.0	10.5	9.0	10.5	13.5	15.0	18.0	19.5	22.5	24.0
85°	6.0	6.0	7.5	7.5	7.5	7.5	7.5	7.5	9.0	10.5	13.5
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: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4
2.5°	4985.9	4982.9	4973.9	4973.9	4972.4	4978.4	4982.9	4987.4	4985.9	4994.9	4985.9
5°	5023.4	5015.9	5002.4	4990.4	4985.9	4988.9	4984.4	4988.9	4982.9	4990.4	4976.9
7.5°	5127.0	5101.5	5048.9	5027.9	5000.9	4999.4	4985.9	4982.9	4973.9	4973.9	4957.4
10°	5310.2	5187.1	5172.0	5109.0	5086.5	4976.9	5000.9	4960.4	4955.9	4936.3	4928.8
12.5°	5460.3	5364.2	5335.7	5280.1	5217.1	4994.9	5044.4	4957.4	4952.9	4913.8	4873.3
15°	5463.3	5518.8	5440.8	5287.6	5274.1	5121.0	5020.4	4990.4	4951.3	4834.2	4853.8
17.5°	5287.6	5415.3	5452.8	5419.8	5323.7	5220.1	5079.0	5018.9	4901.8	4849.3	4813.2
20°	5002.4	5131.5	5292.1	5302.7	5362.7	5289.1	5104.5	5006.9	4865.8	4774.2	4744.2
22.5°	4775.7	4870.3	5054.9	5140.5	5214.1	5239.6	5122.5	4978.4	4802.7	4714.1	4696.1
25°	4655.6	4676.6	4732.2	4832.7	4994.9	5112.0	5128.5	4975.4	4883.8	4690.1	4588.0
27.5°	4612.1	4594.0	4571.5	4622.6	4744.2	4886.8	4981.4	5006.9	4778.7	4594.0	4491.9
30°	4501.0	4511.5	4476.9	4458.9	4538.5	4685.6	4853.8	4895.8	4720.1	4529.5	4412.4
32.5°	4364.3	4382.3	4388.4	4356.8	4340.3	4442.4	4624.1	4724.6	4715.6	4437.9	4307.3
35°	4193.2	4244.2	4257.7	4259.2	4232.2	4215.7	4320.8	4529.5	4609.0	4395.9	4206.7
37.5°	4013.0	4028.0	4101.6	4121.1	4121.1	4071.6	4149.6	4316.3	4427.4	4301.3	4083.6
40°	3787.8	3835.9	3904.9	3939.5	3974.0	3978.5	3935.0	4052.1	4235.2	4203.7	3968.0
42.5°	3624.2	3655.7	3697.7	3744.3	3814.9	3832.9	3787.8	3808.8	3999.5	4082.1	3817.9
45°	3433.5	3475.6	3487.6	3538.6	3612.2	3664.7	3663.2	3619.7	3772.8	3874.9	3708.3
47.5°	3238.3	3278.9	3299.9	3325.4	3379.5	3447.0	3484.6	3465.0	3495.1	3694.7	3562.6
50°	3037.2	3059.7	3101.7	3130.2	3166.3	3205.3	3295.4	3313.4	3271.4	3430.5	3402.0
52.5°	2846.5	2854.0	2882.5	2911.1	2959.1	2987.6	3059.7	3113.7	3110.7	3157.3	3223.3
55°	2697.9	2664.8	2670.8	2693.4	2724.9	2768.4	2809.0	2893.0	2921.6	2930.6	3035.7
57.5°	2107.9	2447.1	2477.2	2475.7	2513.2	2532.7	2570.3	2625.8	2727.9	2705.4	2822.5
60°	1915.7	1953.2	2237.0	2270.0	2283.5	2301.5	2346.6	2397.6	2472.7	2520.7	2571.8
62.5°	1460.8	1689.0	1774.6	2025.3	2064.3	2074.8	2104.8	2128.9	2206.9	2316.5	2295.5
65°	1130.5	1228.1	1489.3	1591.4	1804.6	1831.6	1873.6	1899.2	1921.7	2047.8	2053.8
67.5°	977.4	992.4	1062.9	1259.6	1394.7	1603.4	1628.9	1651.5	1686.0	1776.1	1831.6
70°	834.7	852.7	872.3	888.8	1064.4	1202.6	1396.2	1403.7	1426.3	1486.3	1612.4
72.5°	157.6	713.1	725.1	735.6	755.2	846.7	1031.4	1181.5	1190.5	1219.1	1334.7
75°	106.6	124.6	171.2	588.5	608.0	614.0	645.6	833.2	971.4	977.4	1028.4
77.5°	76.6	85.6	103.6	123.1	313.8	471.4	478.9	513.5	656.1	759.7	768.7
80°	52.5	58.6	69.1	78.1	96.1	126.1	348.3	358.8	376.8	519.5	546.5
82.5°	30.0	34.5	40.5	49.5	57.1	72.1	93.1	120.1	244.7	261.2	346.8
85°	15.0	16.5	19.5	24.0	28.5	34.5	46.5	57.1	78.1	141.1	145.6
87.5°	7.5	7.5	7.5	7.5	12.0	13.5	16.5	21.0	27.0	40.5	52.5
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: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4
2.5°	4987.4	5008.4	5026.4	5030.9	5030.9	5033.9	5038.4	5041.4	5044.4	5047.4	5044.4
5°	4978.4	5000.9	5015.9	5020.4	5020.4	5029.4	5036.9	5045.9	5050.4	5050.4	5047.4
7.5°	4955.9	4972.4	4991.9	5003.9	5005.4	5020.4	5033.9	5032.4	5038.4	5041.4	5048.9
10°	4925.8	4925.8	4958.9	4967.9	4975.4	4991.9	4996.4	5005.4	5026.4	5029.4	5048.9
12.5°	4910.8	4895.8	4934.8	4939.3	4964.9	4943.8	4970.9	4979.9	4958.9	4987.4	4949.8
15°	4843.3	4861.3	4855.3	4868.8	4913.8	4889.8	4963.4	4939.3	4993.4	4928.8	5042.9
17.5°	4787.7	4784.7	4808.7	4820.7	4829.7	4880.8	4900.3	4927.3	4948.3	4930.3	4975.4
20°	4747.2	4723.1	4741.2	4754.7	4786.2	4825.2	4837.2	4796.7	4867.3	4987.4	5015.9
22.5°	4670.6	4654.1	4675.1	4675.1	4723.1	4717.1	4762.2	4736.7	4802.7	4942.3	5088.0
25°	4567.0	4568.5	4591.0	4618.1	4627.1	4694.6	4718.6	4751.7	4834.2	5000.9	5089.5
27.5°	4461.9	4452.9	4466.4	4522.0	4568.5	4618.1	4625.6	4738.2	4850.8	4964.9	5042.9
30°	4356.8	4347.8	4356.8	4397.4	4452.9	4485.9	4568.5	4718.6	4823.7	4901.8	4975.4
32.5°	4244.2	4235.2	4256.2	4286.3	4383.9	4388.4	4552.0	4693.1	4775.7	4832.7	4819.2
35°	4124.1	4112.1	4131.6	4178.2	4268.2	4301.3	4472.4	4577.5	4670.6	4697.6	4634.6
37.5°	3980.0	3959.0	3983.0	4047.6	4142.1	4238.2	4380.8	4502.5	4552.0	4479.9	4404.9
40°	3829.9	3814.9	3856.9	3889.9	4001.0	4134.6	4298.3	4383.9	4352.3	4269.8	4187.2
42.5°	3696.2	3664.7	3702.3	3765.3	3891.4	4043.1	4175.2	4223.2	4148.1	4026.5	3930.5
45°	3532.6	3495.1	3540.1	3624.2	3759.3	3932.0	4035.5	4019.0	3891.4	3786.3	3654.2
47.5°	3361.5	3316.4	3361.5	3462.0	3613.7	3796.8	3871.9	3796.8	3636.2	3504.1	3397.5
50°	3193.3	3140.8	3184.3	3335.9	3484.6	3625.7	3624.2	3478.6	3382.5	3238.3	3145.3
52.5°	3026.7	2951.6	2995.1	3160.3	3308.9	3469.5	3350.9	3215.8	3100.2	2974.1	2944.1
55°	2821.0	2739.9	2798.5	3038.7	3152.8	3247.4	3058.2	2939.6	2825.5	2762.4	2724.9
57.5°	2625.8	2537.2	2588.3	2872.0	2956.1	2980.1	2806.0	2637.8	2570.3	2549.2	2495.2
60°	2424.6	2324.0	2372.1	2699.4	2757.9	2660.3	2489.2	2358.6	2345.1	2303.0	2261.0
62.5°	2232.5	2121.4	2151.4	2484.7	2511.7	2334.6	2176.9	2142.4	2109.4	2067.3	2044.8
65°	2011.8	1896.2	1938.2	2256.5	2231.0	2002.8	1914.2	1906.7	1863.1	1828.6	1861.6
67.5°	1809.1	1672.5	1731.0	2007.3	1891.7	1705.5	1669.5	1651.5	1616.9	1636.4	1289.6
70°	1586.9	1438.3	1517.8	1738.5	1567.4	1444.3	1430.8	1403.7	1405.2	1117.0	941.3
72.5°	1339.2	1210.1	1325.7	1444.3	1240.1	1204.1	1184.5	1181.5	953.3	774.7	731.1
75°	1121.5	990.9	1115.5	1160.5	987.9	963.8	962.3	795.7	626.0	597.5	584.0
77.5°	875.3	774.7	893.3	825.7	758.2	731.1	656.1	492.4	471.4	451.9	169.6
80°	590.0	597.5	666.6	569.0	540.5	460.9	363.3	348.3	300.3	120.1	94.6
82.5°	358.8	450.4	424.9	355.8	348.3	250.7	229.7	117.1	87.1	69.1	60.1
85°	186.2	228.2	219.2	193.7	144.1	129.1	72.1	55.5	45.0	34.5	28.5
87.5°	63.1	84.1	81.1	64.6	49.5	39.0	25.5	21.0	15.0	12.0	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: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4
2.5°	5041.4	5041.4	5038.4	5041.4	5042.9	5039.9	5039.9	5042.9	5044.4	5045.9	5053.4
5°	5048.9	5051.9	5056.4	5065.4	5067.0	5085.0	5092.5	5097.0	5101.5	5103.0	5092.5
7.5°	5065.4	5076.0	5085.0	5083.5	5073.0	5044.4	5035.4	5027.9	5041.4	5076.0	5116.5
10°	5080.5	5032.4	4942.3	5065.4	5027.9	5062.4	5164.5	5187.1	5256.1	5353.7	5382.2
12.5°	4976.9	5109.0	5137.5	4999.4	5254.6	5160.0	5272.6	5371.7	5400.2	5499.3	5439.3
15°	5088.0	5152.5	5196.1	5334.2	5319.2	5400.2	5431.8	5412.3	5416.8	5442.3	5509.8
17.5°	5086.5	5215.6	5244.1	5337.2	5400.2	5401.7	5392.7	5383.7	5407.7	5427.3	5386.7
20°	5173.5	5215.6	5271.1	5308.7	5320.7	5335.7	5364.2	5341.7	5296.7	5253.1	5235.1
22.5°	5130.0	5224.6	5272.6	5278.6	5271.1	5224.6	5182.6	5119.5	5098.5	5076.0	5083.5
25°	5139.0	5182.6	5176.5	5152.5	5121.0	5033.9	5012.9	4985.9	4945.3	4847.8	4759.2
27.5°	5074.5	5051.9	5024.9	4966.4	4909.3	4862.8	4810.2	4723.1	4651.1	4546.0	4507.0
30°	4966.4	4876.3	4810.2	4775.7	4720.1	4642.1	4562.5	4455.9	4364.3	4343.3	4323.8
32.5°	4759.2	4670.6	4616.6	4532.5	4437.9	4344.8	4253.2	4211.2	4191.7	4194.7	4176.7
35°	4547.5	4469.4	4388.4	4262.2	4191.7	4098.6	4065.6	4056.6	4038.5	4019.0	3998.0
37.5°	4322.3	4230.7	4109.1	4034.0	3963.5	3925.9	3909.4	3895.9	3864.4	3829.9	3805.8
40°	4104.6	3939.5	3871.9	3798.3	3777.3	3760.8	3736.8	3703.8	3660.2	3654.2	3643.7
42.5°	3813.3	3694.7	3636.2	3621.2	3595.7	3567.1	3546.1	3510.1	3492.1	3504.1	3513.1
45°	3537.1	3477.1	3457.5	3439.5	3391.5	3350.9	3337.4	3325.4	3340.4	3406.5	3248.9
47.5°	3313.4	3289.4	3265.4	3235.3	3190.3	3160.3	3173.8	3185.8	3199.3	2714.4	2477.2
50°	3119.7	3086.7	3049.2	3016.1	2989.1	2986.1	3056.7	2845.0	2382.6	2370.6	2130.4
52.5°	2908.1	2858.5	2836.0	2816.5	2828.5	2873.5	2378.1	2206.9	2116.9	1839.1	1716.0
55°	2679.9	2636.3	2636.3	2654.3	2589.8	2098.8	2073.3	1792.6	1622.9	1574.9	1555.4
57.5°	2451.7	2447.1	2472.7	2261.0	1905.2	1827.1	1535.8	1474.3	1447.3	1441.3	1409.7
60°	2243.0	2285.0	1912.7	1759.5	1529.8	1379.7	1337.7	1330.2	1301.6	1291.1	1262.6
62.5°	2076.3	1722.0	1603.4	1309.1	1232.6	1213.1	1190.5	1180.0	1154.5	1019.4	298.8
65°	1499.8	1417.2	1150.0	1100.5	1094.5	1065.9	1056.9	950.3	223.7	150.1	127.6
67.5°	1132.0	1004.4	969.9	960.8	932.3	875.3	259.7	148.6	127.6	111.1	97.6
70°	869.3	846.7	821.2	800.2	235.7	147.1	127.6	108.1	93.1	82.6	75.1
72.5°	711.6	696.6	405.4	154.6	126.1	106.6	94.6	82.6	72.1	66.1	60.1
75°	557.0	154.6	127.6	106.6	91.6	78.1	69.1	61.6	55.5	51.0	46.5
77.5°	126.1	102.1	87.1	73.6	66.1	58.6	52.5	45.0	40.5	36.0	30.0
80°	78.1	67.6	57.1	52.5	45.0	37.5	33.0	30.0	24.0	22.5	19.5
82.5°	51.0	40.5	36.0	30.0	24.0	22.5	19.5	15.0	13.5	12.0	10.5
85°	22.5	19.5	16.5	13.5	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: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4
2.5°	5056.4	5083.5	5109.0	5101.5	5074.5	5032.4	5020.4	5003.9	5015.9	5041.4	5051.9
5°	5092.5	5077.5	5131.5	5211.1	5340.2	5352.2	5442.3	5463.3	5535.4	5580.4	5578.9
7.5°	5143.5	5356.7	5445.3	5541.4	5584.9	5574.4	5587.9	5577.4	5560.9	5553.4	5544.4
10°	5403.2	5565.4	5598.4	5598.4	5530.9	5439.3	5400.2	5332.7	5197.6	5200.6	5178.0
12.5°	5554.9	5611.9	5533.9	5467.8	5196.1	5091.0	4976.9	4922.8	4891.3	4843.3	4861.3
15°	5475.3	5394.2	5347.7	5134.5	4967.9	4778.7	4781.7	4748.7	4714.1	4717.1	4694.6
17.5°	5358.2	5293.6	4963.4	4816.2	4735.2	4661.6	4648.1	4604.5	4582.0	4574.5	4573.0
20°	5197.6	4964.9	4718.6	4682.6	4585.0	4501.0	4487.4	4501.0	4570.0	4446.9	4029.5
22.5°	5009.9	4675.1	4603.0	4501.0	4434.9	4401.9	4484.4	4109.1	3541.6	3610.7	3537.1
25°	4691.6	4546.0	4422.9	4344.8	4337.3	4134.6	3445.5	3373.5	3008.6	2813.5	2594.3
27.5°	4458.9	4395.9	4266.7	4253.2	4155.6	3381.0	3022.2	2625.8	2480.2	2457.7	2409.6
30°	4317.8	4227.7	4149.6	3808.8	3316.4	2721.9	2424.6	2369.1	2343.6	2316.5	2274.5
32.5°	4148.1	4062.6	4100.1	3202.3	2643.8	2343.6	2283.5	2243.0	2196.4	2178.4	2026.8
35°	3975.5	3936.5	3203.8	2691.9	2273.0	2200.9	2155.9	2113.9	1681.5	406.9	138.1
37.5°	3790.8	3781.8	2879.5	2234.0	2128.9	2061.3	1933.7	399.4	94.6	64.6	48.0
40°	3646.7	2881.0	2276.0	2094.3	2008.8	1902.2	267.2	66.1	42.0	25.5	16.5
42.5°	3550.6	2591.3	2037.3	1965.2	1779.1	196.7	67.6	28.5	16.5	13.5	10.5
45°	2736.9	2046.3	1903.7	1828.6	225.2	67.6	39.0	13.5	10.5	9.0	6.0
47.5°	2525.2	1858.6	1774.6	399.4	75.1	36.0	27.0	9.0	6.0	6.0	6.0
50°	1912.7	1717.5	1412.7	97.6	48.0	25.5	19.5	6.0	6.0	6.0	4.5
52.5°	1677.0	1585.4	151.6	64.6	37.5	19.5	12.0	4.5	4.5	4.5	4.5
55°	1532.8	1005.9	90.1	49.5	31.5	18.0	7.5	4.5	4.5	4.5	3.0
57.5°	1402.2	135.1	66.1	42.0	28.5	16.5	4.5	4.5	4.5	4.5	3.0
60°	1189.0	97.6	54.0	37.5	27.0	15.0	4.5	4.5	4.5	4.5	4.5
62.5°	154.6	76.6	46.5	33.0	19.5	12.0	3.0	4.5	4.5	4.5	4.5
65°	112.6	60.1	42.0	22.5	12.0	4.5	3.0	4.5	4.5	4.5	4.5
67.5°	87.1	49.5	31.5	19.5	10.5	3.0	3.0	4.5	4.5	4.5	4.5
70°	69.1	42.0	25.5	16.5	9.0	3.0	3.0	4.5	4.5	4.5	4.5
72.5°	54.0	30.0	18.0	9.0	6.0	3.0	3.0	4.5	4.5	4.5	4.5
75°	40.5	24.0	13.5	7.5	3.0	3.0	3.0	4.5	4.5	4.5	4.5
77.5°	27.0	15.0	10.5	6.0	6.0	6.0	7.5	7.5	4.5	4.5	4.5
80°	18.0	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: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4
2.5°	5038.4	5042.9	5030.9	5095.5	5062.4	5065.4	5079.0	5044.4	5051.9	5027.9	5011.4
5°	5584.9	5593.9	5602.9	5605.9	5611.9	5619.4	5610.4	5605.9	5596.9	5566.9	5535.4
7.5°	5499.3	5488.8	5484.3	5490.3	5500.8	5505.3	5497.8	5508.3	5547.4	5563.9	5574.4
10°	5048.9	5000.9	5033.9	5029.4	4991.9	5118.0	5083.5	5103.0	5116.5	5254.6	5338.7
12.5°	4834.2	4864.3	4807.2	4778.7	4816.2	4841.8	4867.3	4813.2	4888.3	4853.8	4964.9
15°	4654.1	4636.1	4630.1	4631.6	4624.1	4660.1	4669.1	4681.1	4691.6	4738.2	4756.2
17.5°	4573.0	4603.0	4615.1	4624.1	4609.0	4592.5	4576.0	4552.0	4559.5	4547.5	4582.0
20°	3748.8	3648.2	3642.2	3700.8	3636.2	3672.2	3759.3	4341.8	4322.3	4549.0	4472.4
22.5°	3128.7	3034.2	2953.1	2882.5	2983.1	3025.2	3187.3	3370.5	3667.7	3621.2	3944.0
25°	2555.2	2520.7	2499.7	2489.2	2496.7	2493.7	2529.7	2615.3	2750.4	3068.7	3480.1
27.5°	2390.1	2373.6	2366.1	2342.1	2360.1	2354.1	2382.6	2400.6	2441.1	2472.7	2606.3
30°	2259.5	2240.0	2226.5	2200.9	2218.9	2220.5	2229.5	2276.0	2292.5	2319.5	2361.6
32.5°	825.7	486.4	456.4	433.9	474.4	618.5	1085.5	1897.7	2164.9	2185.9	2234.0
35°	81.1	67.6	60.1	60.1	61.6	67.6	90.1	237.2	433.9	1677.0	2098.8
37.5°	31.5	27.0	22.5	21.0	22.5	25.5	34.5	45.0	61.6	127.6	569.0
40°	13.5	12.0	10.5	10.5	10.5	10.5	12.0	15.0	22.5	42.0	66.1
42.5°	9.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	10.5	13.5	27.0
45°	6.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.0	7.5	12.0
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: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4
2.5°	4982.9	4981.4	5012.9	5036.9	5027.9	5036.9	5047.4	5048.9	5051.9	5039.9	5035.4
5°	5475.3	5428.8	5338.7	5274.1	5199.1	5062.4	4994.9	5002.4	5003.9	4999.4	5005.4
7.5°	5569.9	5565.4	5533.9	5520.3	5469.3	5371.7	5215.6	5188.6	5122.5	5080.5	5045.9
10°	5332.7	5440.8	5469.3	5517.3	5547.4	5529.4	5397.2	5377.7	5335.7	5287.6	5298.2
12.5°	5076.0	5164.5	5169.0	5430.3	5488.8	5494.8	5443.8	5470.8	5476.8	5368.7	5305.7
15°	4760.7	4802.7	4891.3	5134.5	5311.7	5422.8	5455.8	5470.8	5397.2	5392.7	5367.2
17.5°	4622.6	4649.6	4690.1	4826.7	5095.5	5259.1	5398.7	5388.2	5416.8	5395.7	5331.2
20°	4448.4	4470.9	4543.0	4612.1	4744.2	4961.9	5223.1	5242.6	5280.1	5275.6	5293.6
22.5°	4445.4	4365.8	4377.8	4431.9	4570.0	4765.2	5042.9	5107.5	5131.5	5148.0	5167.5
25°	3526.6	4158.7	4274.3	4308.8	4398.9	4513.0	4840.3	4864.3	4909.3	4982.9	5036.9
27.5°	3055.2	3484.6	3947.0	4187.2	4244.2	4338.8	4534.0	4570.0	4723.1	4741.2	4825.2
30°	2411.1	2742.9	3433.5	4011.5	4106.1	4172.2	4310.3	4382.3	4448.4	4520.5	4609.0
32.5°	2268.5	2321.0	2703.9	3319.4	4055.1	4005.5	4107.6	4151.1	4223.2	4286.3	4350.8
35°	2137.9	2173.9	2255.0	2718.9	3302.9	3868.9	3938.0	3966.5	4007.0	4055.1	4101.6
37.5°	2001.3	2055.3	2110.9	2235.5	3055.2	3760.8	3759.3	3792.3	3816.4	3856.9	3895.9
40°	363.3	1887.2	1977.2	2058.3	2369.1	2999.6	3591.2	3606.2	3622.7	3648.2	3688.7
42.5°	58.6	315.3	1852.6	1930.7	2019.3	2685.9	3514.6	3453.0	3442.5	3460.5	3496.6
45°	30.0	76.6	372.3	1803.1	1882.7	2142.4	2873.5	3346.4	3335.9	3301.4	3308.9
47.5°	22.5	48.0	91.6	623.0	1762.5	1839.1	2651.3	2622.8	2822.5	3205.3	3146.8
50°	19.5	33.0	54.0	127.6	1556.9	1693.5	2041.8	2385.6	2490.7	2504.2	2963.6
52.5°	18.0	22.5	39.0	82.6	327.3	1565.9	1660.5	1780.6	1957.7	2337.6	2328.5
55°	16.5	21.0	33.0	55.5	114.1	1411.2	1508.8	1531.3	1568.9	1750.5	1990.7
57.5°	9.0	19.5	31.5	48.0	85.6	258.2	1369.2	1387.2	1417.2	1424.8	1510.3
60°	4.5	18.0	28.5	42.0	63.1	120.1	1231.1	1252.1	1270.1	1273.1	1300.1
62.5°	3.0	16.5	24.0	39.0	52.5	85.6	291.3	594.5	1130.5	1130.5	1162.0
65°	3.0	12.0	15.0	25.5	48.0	70.6	123.1	142.6	277.7	683.1	1019.4
67.5°	3.0	4.5	13.5	21.0	36.0	54.0	90.1	105.1	126.1	144.1	267.2
70°	3.0	3.0	12.0	13.5	22.5	40.5	64.6	73.6	85.6	97.6	112.6
72.5°	3.0	3.0	10.5	10.5	15.0	27.0	49.5	54.0	61.6	69.1	79.6
75°	7.5	6.0	9.0	9.0	10.5	21.0	37.5	42.0	45.0	51.0	58.6
77.5°	7.5	7.5	7.5	7.5	7.5	13.5	24.0	27.0	31.5	34.5	40.5
80°	6.0	6.0	6.0	7.5	7.5	9.0	15.0	16.5	18.0	22.5	24.0
82.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	9.0	10.5	13.5
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: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4	5002.4
2.5°	5033.9	5024.9	5017.4	5021.9	5008.4	5002.4	5006.9	5008.4	5011.4	5018.9	5020.4
5°	5020.4	5017.4	5030.9	5038.4	5035.4	5038.4	5038.4	5032.4	5023.4	5029.4	5015.9
7.5°	5011.4	4991.9	4976.9	4979.9	4964.9	4982.9	4999.4	5023.4	5030.9	5030.9	5015.9
10°	5166.0	5145.0	5060.9	5003.9	4966.4	4933.3	5011.4	4931.8	4969.4	4826.7	4990.4
12.5°	5293.6	5322.2	5284.6	5128.5	5101.5	5002.4	5059.4	4961.9	4933.3	4769.7	4822.2
15°	5344.7	5290.6	5278.6	5235.1	5176.5	5148.0	4994.9	4978.4	4931.8	4949.8	4880.8
17.5°	5299.7	5326.7	5290.6	5262.1	5202.1	5134.5	5042.9	4961.9	4897.3	4753.2	4874.8
20°	5256.1	5292.1	5184.1	5202.1	5208.1	5130.0	5082.0	5014.4	4933.3	4798.2	4693.1
22.5°	5184.1	5158.5	5167.5	5140.5	5118.0	5128.5	5062.4	5015.9	4879.3	4817.7	4675.1
25°	5067.0	5057.9	5082.0	5079.0	5024.9	5006.9	4973.9	4924.3	4870.3	4771.2	4654.1
27.5°	4876.3	4922.8	4964.9	4984.4	4955.9	4907.8	4889.8	4861.3	4823.7	4723.1	4636.1
30°	4675.1	4727.7	4775.7	4817.7	4843.3	4822.2	4805.7	4789.2	4732.2	4666.1	4568.5
32.5°	4445.4	4514.5	4580.5	4631.6	4687.1	4703.6	4691.6	4678.1	4630.1	4570.0	4491.9
35°	4179.7	4274.3	4370.3	4461.9	4485.9	4525.0	4564.0	4541.5	4516.0	4455.9	4383.9
37.5°	3954.5	4022.0	4091.1	4206.7	4290.8	4340.3	4409.4	4418.4	4374.8	4346.3	4251.7
40°	3721.8	3783.3	3883.9	3951.5	4067.1	4124.1	4197.7	4230.7	4220.2	4203.7	4121.1
42.5°	3538.6	3568.6	3634.7	3694.7	3808.8	3925.9	3990.5	4026.5	4064.1	4050.6	4008.5
45°	3343.4	3370.5	3393.0	3445.5	3556.6	3660.2	3739.8	3793.8	3861.4	3892.9	3841.9
47.5°	3149.8	3157.3	3184.3	3227.8	3293.9	3373.5	3507.1	3588.2	3651.2	3712.8	3679.7
50°	3001.1	2974.1	2978.6	3005.6	3059.7	3137.8	3233.8	3347.9	3420.0	3495.1	3502.6
52.5°	2622.8	2842.0	2789.4	2804.5	2833.0	2870.5	2971.1	3083.7	3172.3	3236.8	3301.4
55°	2200.9	2244.5	2666.3	2606.3	2624.3	2657.3	2703.9	2816.5	2902.0	2992.1	3082.2
57.5°	1707.0	2031.3	2047.8	2438.1	2429.1	2432.1	2471.2	2535.7	2621.3	2733.9	2810.5
60°	1327.2	1463.8	1729.5	1864.6	2206.9	2218.9	2241.5	2279.0	2352.6	2459.2	2580.8
62.5°	1171.0	1189.0	1283.6	1486.3	1708.5	1977.2	2025.3	2031.3	2064.3	2170.9	2312.0
65°	1028.4	1040.4	1068.9	1090.0	1276.1	1535.8	1767.1	1804.6	1825.6	1888.7	2008.8
67.5°	708.6	896.3	921.8	936.8	954.8	1074.9	1361.7	1552.4	1576.4	1631.9	1737.0
70°	136.6	283.7	776.2	792.7	801.7	828.7	875.3	1178.5	1337.7	1390.2	1438.3
72.5°	93.1	109.6	132.1	312.3	660.6	675.6	686.1	725.1	993.9	1147.0	1172.5
75°	67.6	75.1	88.6	109.6	135.1	439.9	545.0	564.5	584.0	806.2	935.3
77.5°	48.0	54.0	60.1	70.6	82.6	106.6	153.1	421.9	441.4	451.9	638.1
80°	27.0	33.0	40.5	46.5	52.5	60.1	78.1	97.6	217.7	318.3	334.8
82.5°	15.0	18.0	21.0	25.5	28.5	36.0	43.5	52.5	69.1	102.1	216.2
85°	7.5	7.5	7.5	10.5	12.0	16.5	19.5	22.5	31.5	43.5	60.1
87.5°	4.5	4.5	6.0	6.0	6.0	7.5	7.5	7.5	9.0	13.5	19.5
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: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	5002.4	5002.4	5002.4	5002.4	5002.4
2.5°	5021.9	5017.4	5017.4	5035.4	5030.9
5°	5012.9	5008.4	5006.9	5026.4	5017.4
7.5°	5005.4	4988.9	4984.4	5002.4	4994.9
10°	4975.4	4963.4	4970.9	4964.9	4961.9
12.5°	4924.3	4916.8	4885.3	4888.3	4913.8
15°	4832.7	4862.8	4808.7	4856.8	4867.3
17.5°	4664.6	4732.2	4784.7	4813.2	4817.7
20°	4739.7	4762.2	4735.2	4736.7	4754.7
22.5°	4642.1	4652.6	4660.1	4651.1	4690.1
25°	4485.9	4445.4	4532.5	4550.5	4613.6
27.5°	4437.9	4404.9	4445.4	4442.4	4494.9
30°	4398.9	4292.3	4310.3	4338.8	4403.4
32.5°	4343.3	4175.2	4157.2	4220.2	4292.3
35°	4245.7	4086.6	4044.6	4085.1	4193.2
37.5°	4163.2	3963.5	3879.4	3933.5	4074.6
40°	4040.0	3867.4	3736.8	3784.8	3951.5
42.5°	3892.9	3784.8	3583.6	3616.7	3807.3
45°	3744.3	3648.2	3435.0	3451.5	3678.2
47.5°	3592.7	3504.1	3280.4	3283.4	3513.1
50°	3444.0	3326.9	3142.3	3089.7	3337.4
52.5°	3250.4	3142.3	3002.6	2917.1	3170.8
55°	3067.2	2945.6	2843.5	2711.4	2981.6
57.5°	2888.5	2753.4	2684.4	2514.7	2766.9
60°	2643.8	2579.3	2477.2	2315.0	2573.3
62.5°	2393.1	2372.1	2268.5	2100.3	2334.6
65°	2100.3	2149.9	2043.3	1899.2	2086.8
67.5°	1824.1	1912.7	1795.6	1707.0	1848.1
70°	1529.8	1631.9	1565.9	1534.3	1594.4
72.5°	1240.1	1339.2	1345.2	1322.7	1342.2
75°	957.8	1067.4	1127.5	1093.0	1097.5
77.5°	726.6	779.2	845.2	872.3	866.3
80°	448.9	540.5	594.5	650.1	630.6
82.5°	226.7	303.3	369.3	429.4	400.9
85°	94.6	121.6	169.6	223.7	214.7
87.5°	28.5	48.0	51.0	72.1	67.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)