

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-L930-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-L930-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
METALIC FINISH REFLECTOR  
Light Source: -  
Ballast/Driver: -

**Summary**

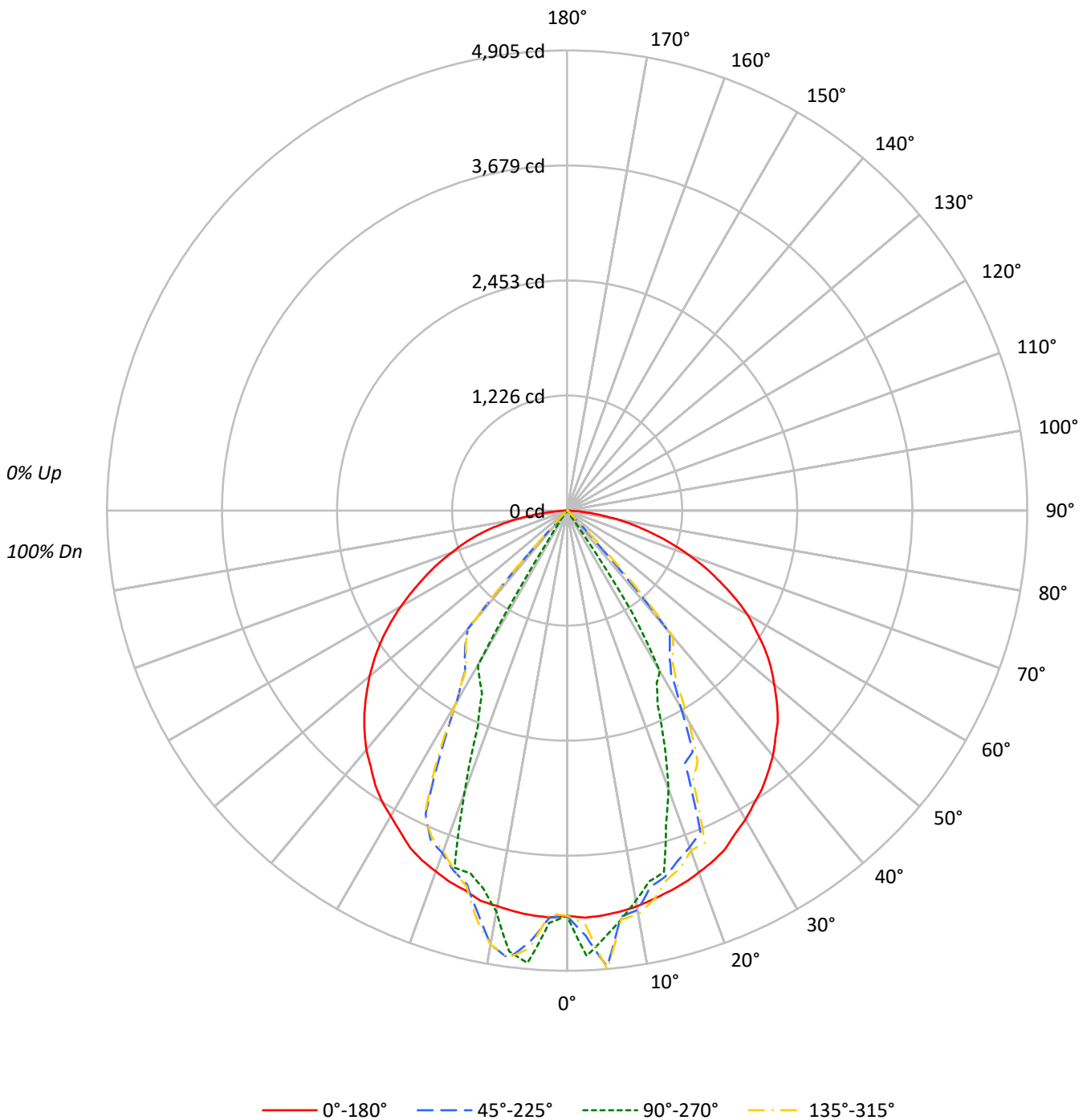
Lumens per Lamp: N/A  
Luminaire Lumens: 6141.0 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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



TEST NUMBER: P#  
CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L930-CD1-U

### 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°	17450	17450	17450	17450
5°	17546	17947	17540	19006
10°	17527	16240	17517	16709
15°	17505	15159	17461	15198
20°	17551	11940	17501	12087
25°	17629	8641	17543	8153
30°	17578	7579	17393	7286
35°	17664	167	17404	202
40°	17761	37	17336	37
45°	17867	22	17195	16
50°	17781	17	16965	17
55°	17738	12	16648	12
60°	17480	13	16113	13
65°	16667	21	15479	14
70°	15592	23	14843	23
75°	13977	25	14205	25
80°	11636	29	12301	29
85°	7293	34	7442	34



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	433.3	7.1
10°-20°	1181.9	19.2
20°-30°	1503.9	24.5
30°-40°	1270.4	20.7
40°-50°	830.6	13.5
50°-60°	523.3	8.5
60°-70°	278.6	4.5
70°-80°	101.6	1.7
80°-90°	17.5	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°	3119.1	50.8
0°-40°	4389.5	71.5
0°-60°	5743.4	93.5
0°-90°	6141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6141.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4319	4319	4319	4319	4319	
5°	4332	4570	4330	4840	4332	412
15°	4202	3988	4192	3999	4202	1188
25°	3983	2277	3964	2149	3983	1832
35°	3620	43	3567	52	3620	2265
45°	3176	5	3056	4	3176	2442
55°	2574	3	2416	3	2574	2294
65°	1802	4	1673	3	1802	1784
75°	948	4	963	4	948	1006
85°	185	4	189	4	185	234
90°	0	0	0	0	0	



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8
2.5°	4343.4	4346.0	4347.3	4349.9	4353.8	4355.1	4357.7	4355.1	4355.1	4355.1	4355.1
5°	4331.8	4337.0	4340.8	4346.0	4355.1	4356.4	4366.8	4368.1	4373.2	4383.6	4391.4
7.5°	4312.3	4317.5	4325.3	4338.3	4351.2	4365.5	4383.6	4403.1	4430.3	4456.2	4488.6
10°	4283.8	4290.3	4299.4	4311.0	4374.5	4383.6	4423.8	4479.5	4495.1	4576.7	4637.7
12.5°	4242.3	4264.4	4287.7	4298.1	4359.0	4454.9	4589.7	4562.5	4532.7	4799.7	4795.8
15°	4202.2	4232.0	4220.3	4304.6	4360.3	4527.5	4470.5	4592.3	4815.2	4760.8	4763.4
17.5°	4159.4	4165.9	4230.7	4300.7	4400.5	4486.0	4556.0	4723.2	4767.3	4771.2	4723.2
20°	4104.9	4136.1	4230.7	4294.2	4462.7	4502.9	4654.5	4740.1	4721.9	4677.8	4596.2
22.5°	4049.2	4143.8	4239.7	4329.2	4447.1	4554.7	4629.9	4670.1	4575.5	4401.8	4308.4
25°	3983.1	4038.8	4164.6	4295.5	4443.2	4505.5	4549.5	4484.7	4361.6	4206.0	4049.2
27.5°	3880.7	3970.1	4130.9	4278.6	4412.1	4487.3	4416.0	4260.5	4062.2	3959.8	3888.5
30°	3801.6	3918.3	4050.5	4193.1	4331.8	4375.8	4194.4	4016.8	3880.7	3778.3	3762.8
32.5°	3705.7	3871.6	3997.4	4133.5	4250.1	4191.8	4015.5	3786.1	3673.3	3634.4	3650.0
35°	3620.2	3745.9	3910.5	4044.0	4128.3	3997.4	3718.7	3576.1	3521.7	3543.7	3515.2
37.5°	3517.8	3683.7	3835.3	3950.7	3922.2	3725.2	3489.3	3398.5	3405.0	3386.9	3332.4
40°	3411.5	3569.6	3727.8	3836.6	3736.8	3436.1	3279.3	3259.8	3263.7	3205.4	3127.6
42.5°	3287.1	3430.9	3589.1	3687.6	3472.4	3237.8	3131.5	3134.1	3100.4	3018.8	2977.3
45°	3175.6	3307.8	3472.4	3481.5	3217.1	3021.4	2990.2	2956.5	2881.4	2854.1	2823.0
47.5°	3033.0	3179.5	3315.6	3266.3	2966.9	2845.1	2821.7	2747.9	2710.3	2689.5	2663.6
50°	2881.4	3029.1	3153.6	3013.6	2731.0	2702.5	2626.0	2567.7	2541.8	2519.7	2496.4
52.5°	2737.5	2859.3	2986.4	2745.3	2549.5	2522.3	2435.5	2401.8	2375.9	2351.2	2346.1
55°	2574.2	2681.8	2768.6	2489.9	2375.9	2312.4	2250.1	2226.8	2202.2	2190.5	2210.0
57.5°	2388.8	2510.7	2497.7	2238.5	2187.9	2095.9	2072.6	2057.0	2038.9	2046.6	1884.6
60°	2221.6	2314.9	2251.4	2054.4	1968.9	1906.7	1885.9	1875.5	1885.9	1727.8	1519.1
62.5°	2015.5	2120.5	1992.2	1839.3	1748.5	1718.7	1700.6	1714.8	1563.2	1389.5	1338.9
65°	1801.7	1915.7	1726.5	1608.5	1551.5	1525.6	1524.3	1403.7	1254.7	1187.3	1187.3
67.5°	1595.6	1713.5	1469.8	1371.3	1349.3	1351.9	1276.7	1094.0	1052.5	1007.1	876.2
70°	1376.5	1480.2	1214.5	1154.9	1141.9	1132.8	950.1	900.8	851.6	731.0	720.7
72.5°	1158.8	1209.3	976.0	961.8	959.2	797.1	760.8	676.6	619.6	605.3	598.8
75°	947.5	931.9	771.2	784.2	661.0	604.0	545.7	496.4	488.7	483.5	120.5
77.5°	747.9	670.1	607.9	528.8	473.1	401.8	390.1	382.4	251.5	90.7	73.9
80°	544.4	434.2	404.4	343.5	292.9	281.3	287.7	88.1	70.0	58.3	50.6
82.5°	346.1	277.4	226.8	198.3	193.1	84.3	62.2	50.6	44.1	37.6	31.1
85°	185.4	123.1	114.1	95.9	57.0	38.9	32.4	24.6	20.7	16.9	15.6
87.5°	58.3	49.3	40.2	32.4	19.4	13.0	10.4	9.1	7.8	6.5	6.5
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°	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8
2.5°	4352.5	4355.1	4353.8	4357.7	4357.7	4362.9	4366.8	4370.7	4378.4	4382.3	4412.1
5°	4408.2	4414.7	4434.2	4452.3	4474.3	4480.8	4518.4	4527.5	4571.6	4576.7	4721.9
7.5°	4532.7	4557.3	4604.0	4650.6	4697.3	4727.1	4778.9	4811.4	4846.3	4877.5	4992.8
10°	4683.0	4724.5	4769.9	4816.5	4843.8	4900.8	4931.9	4937.1	4928.0	4877.5	4690.8
12.5°	4830.8	4872.3	4852.8	4861.9	4894.3	4793.2	4807.5	4734.9	4785.4	4535.3	4349.9
15°	4810.1	4807.5	4759.5	4604.0	4629.9	4436.8	4359.0	4299.4	4347.3	4321.4	4292.9
17.5°	4747.8	4629.9	4546.9	4360.3	4281.2	4226.8	4228.1	4229.4	4206.0	4230.7	4158.1
20°	4484.7	4352.5	4229.4	4163.3	4139.9	4101.1	4120.5	4101.1	4102.4	4110.1	3998.7
22.5°	4134.8	4094.6	4023.3	4044.0	4036.2	4071.2	4045.3	4005.1	4018.1	3959.8	3875.5
25°	3993.5	3946.8	3944.2	3952.0	3940.3	3924.8	3901.4	3840.5	3836.6	3818.5	3779.6
27.5°	3850.9	3853.5	3861.3	3837.9	3796.5	3765.3	3730.4	3700.5	3712.2	3691.5	3638.3
30°	3752.4	3751.1	3704.4	3683.7	3607.2	3608.5	3599.4	3581.3	3569.6	3570.9	3537.2
32.5°	3612.4	3572.2	3519.1	3493.2	3486.7	3463.3	3445.2	3449.1	3458.2	3425.8	3460.8
35°	3468.5	3385.6	3377.8	3355.8	3335.0	3319.5	3326.0	3300.0	3298.7	3294.8	3009.7
37.5°	3275.4	3235.2	3231.3	3208.0	3193.7	3189.9	3165.2	3169.1	3180.8	3201.5	2566.4
40°	3116.0	3079.7	3070.6	3069.3	3038.2	3035.6	3042.1	3066.7	3083.6	2954.0	2445.9
42.5°	2944.9	2947.5	2919.0	2900.8	2904.7	2916.4	2947.5	2861.9	2479.6	2362.9	2235.9
45°	2798.4	2785.5	2769.9	2764.7	2798.4	2775.1	2432.9	2245.0	2199.6	2194.4	1838.0
47.5°	2645.5	2641.6	2635.1	2639.0	2447.2	2181.4	2103.7	2079.0	2086.8	2081.6	1578.7
50°	2491.2	2496.4	2496.4	2180.1	2001.3	1957.2	1963.7	1985.7	1848.3	1725.2	1471.1
52.5°	2357.7	2317.5	1985.7	1871.7	1831.5	1850.9	1804.3	1631.9	1507.4	1434.9	1361.0
55°	2110.2	1814.6	1740.7	1722.6	1736.9	1564.5	1458.2	1346.7	1314.3	1306.5	1263.8
57.5°	1660.4	1600.8	1607.2	1534.7	1370.0	1272.8	1230.1	1214.5	1200.2	1189.9	103.7
60°	1468.6	1485.4	1359.7	1204.1	1138.0	1125.1	1114.7	1100.4	1097.8	1079.7	66.1
62.5°	1344.1	1182.1	1073.2	1034.3	1018.8	1014.9	995.5	989.0	839.9	115.4	49.3
65°	1013.6	947.5	926.8	917.7	900.8	900.8	747.9	118.0	95.9	83.0	44.1
67.5°	827.0	821.8	811.4	799.7	544.4	114.1	99.8	86.8	75.2	66.1	38.9
70°	699.9	697.3	635.1	116.7	97.2	85.5	75.2	67.4	62.2	55.7	35.0
72.5°	574.2	116.7	98.5	85.5	73.9	67.4	60.9	54.4	49.3	45.4	28.5
75°	89.4	79.1	70.0	63.5	58.3	51.8	46.7	42.8	41.5	36.3	19.4
77.5°	64.8	55.7	50.6	45.4	40.2	36.3	31.1	27.2	24.6	20.7	14.3
80°	45.4	40.2	36.3	29.8	25.9	22.0	19.4	16.9	15.6	13.0	6.5
82.5°	25.9	22.0	19.4	15.6	14.3	11.7	10.4	9.1	9.1	6.5	6.5
85°	11.7	11.7	9.1	7.8	6.5	6.5	6.5	5.2	5.2	3.9	3.9
87.5°	5.2	5.2	5.2	5.2	5.2	3.9	3.9	3.9	3.9	3.9	2.6
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°	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8
2.5°	4453.6	4470.5	4502.9	4536.6	4499.0	4633.8	4623.4	4668.8	4693.4	4705.1	4732.3
5°	4850.2	4925.4	4950.0	4876.2	4833.4	4789.3	4689.5	4614.3	4623.4	4598.8	4509.3
7.5°	4842.5	4681.7	4465.3	4366.8	4359.0	4347.3	4378.4	4396.6	4399.2	4397.9	4395.3
10°	4432.9	4349.9	4335.7	4322.7	4327.9	4279.9	4257.9	4195.7	4229.4	4211.2	4217.7
12.5°	4308.4	4289.0	4212.5	4106.2	4169.8	4121.8	4094.6	4112.7	4092.0	4072.5	4066.1
15°	4234.6	4108.8	4066.1	4040.1	4022.0	4011.6	4020.7	4000.0	3993.5	3989.6	3998.7
17.5°	4081.6	4031.1	3984.4	3915.7	3917.0	3913.1	3939.0	3977.9	3980.5	3780.9	3600.7
20°	3961.1	3919.6	3860.0	3817.2	3875.5	3771.8	3371.3	3180.8	3151.0	3151.0	3156.2
22.5°	3865.2	3773.1	3777.0	3709.6	3163.9	3052.5	3055.1	3066.7	3013.6	2832.1	2812.7
25°	3734.2	3720.0	3436.1	2969.5	2973.4	2886.6	2753.0	2565.1	2361.6	2361.6	2327.9
27.5°	3635.7	3333.7	2919.0	2899.5	2607.9	2423.8	2309.8	2137.4	2114.0	2092.0	2094.6
30°	3551.5	2820.4	2830.8	2423.8	2208.7	2055.7	2046.6	2018.1	2003.9	2000.0	1985.7
32.5°	2807.5	2746.6	2369.4	2063.5	1979.2	1954.6	1942.9	1910.5	1909.2	1884.6	1713.5
35°	2632.5	2410.9	1983.1	1900.2	1875.5	1852.2	1832.8	1230.1	145.2	58.3	50.6
37.5°	2432.9	2014.2	1834.1	1796.5	1773.1	1310.4	130.9	45.4	32.4	23.3	20.7
40°	2062.2	1799.1	1742.0	1700.6	701.2	45.4	28.5	22.0	13.0	11.7	10.4
42.5°	1739.4	1695.4	1634.5	497.7	51.8	22.0	14.3	10.4	9.1	9.1	7.8
45°	1628.0	1589.1	658.5	49.3	32.4	10.4	9.1	9.1	7.8	5.2	5.2
47.5°	1524.3	1341.5	59.6	31.1	20.7	9.1	7.8	5.2	5.2	5.2	3.9
50°	1414.1	73.9	41.5	23.3	13.0	5.2	5.2	5.2	5.2	3.9	3.9
52.5°	264.4	51.8	33.7	20.7	6.5	5.2	5.2	5.2	3.9	3.9	3.9
55°	62.2	41.5	31.1	18.1	5.2	5.2	5.2	3.9	3.9	3.9	2.6
57.5°	46.7	31.1	24.6	16.9	5.2	3.9	3.9	3.9	3.9	3.9	2.6
60°	38.9	22.0	19.4	15.6	3.9	3.9	3.9	3.9	3.9	3.9	2.6
62.5°	27.2	18.1	14.3	11.7	3.9	3.9	3.9	3.9	3.9	3.9	3.9
65°	22.0	14.3	11.7	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
67.5°	19.4	11.7	7.8	2.6	3.9	3.9	3.9	3.9	3.9	3.9	3.9
70°	15.6	3.9	3.9	2.6	3.9	3.9	3.9	3.9	3.9	3.9	3.9
72.5°	13.0	3.9	2.6	2.6	3.9	3.9	3.9	3.9	3.9	3.9	3.9
75°	13.0	6.5	2.6	2.6	3.9	3.9	5.2	5.2	3.9	3.9	3.9
77.5°	9.1	6.5	2.6	2.6	3.9	3.9	5.2	5.2	3.9	3.9	3.9
80°	5.2	6.5	2.6	3.9	3.9	7.8	9.1	5.2	3.9	3.9	3.9
82.5°	5.2	6.5	7.8	7.8	3.9	6.5	7.8	6.5	5.2	3.9	3.9
85°	5.2	3.9	5.2	6.5	3.9	6.5	6.5	5.2	5.2	3.9	3.9
87.5°	2.6	3.9	3.9	5.2	5.2	5.2	6.5	5.2	5.2	5.2	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8
2.5°	4745.2	4750.4	4668.8	4640.3	4664.9	4659.7	4637.7	4556.0	4546.9	4492.5	4413.4
5°	4535.3	4570.3	4527.5	4601.4	4566.4	4601.4	4707.7	4756.9	4837.3	4886.5	4904.7
7.5°	4388.8	4396.6	4396.6	4403.1	4409.5	4410.8	4403.1	4397.9	4375.8	4348.6	4397.9
10°	4211.2	4220.3	4235.9	4233.3	4232.0	4259.2	4265.7	4321.4	4318.8	4329.2	4366.8
12.5°	4119.2	4049.2	4112.7	4095.9	4119.2	4082.9	4150.3	4138.6	4142.5	4173.6	4254.0
15°	3966.3	3988.3	4003.8	4003.8	4012.9	4005.1	3997.4	4050.5	4082.9	4084.2	4079.0
17.5°	3672.0	3504.8	3675.9	3631.8	3983.1	3992.2	3962.4	3937.7	3937.7	3957.2	3998.7
20°	3152.3	3156.2	3157.4	3174.3	3195.0	3193.7	3195.0	3705.7	3948.1	3892.4	3854.8
22.5°	2763.4	2715.5	2804.9	2798.4	2909.9	3033.0	3151.0	3139.3	3147.1	3507.4	3831.5
25°	2215.1	2277.4	2226.8	2248.8	2374.6	2521.0	2611.8	2849.0	3106.9	3088.8	3173.0
27.5°	2085.5	2068.7	2092.0	2092.0	2108.9	2128.3	2178.8	2312.4	2541.8	2782.9	3011.0
30°	1962.4	1976.6	1979.2	2002.6	2015.5	2028.5	2036.3	2086.8	2138.7	2305.9	2587.1
32.5°	1473.7	1292.3	1700.6	1810.7	1904.1	1926.1	1941.7	1962.4	2000.0	2024.6	2165.9
35°	42.8	42.8	45.4	51.8	66.1	445.9	1698.0	1871.7	1896.3	1927.4	1953.3
37.5°	20.7	15.6	18.1	19.4	23.3	32.4	46.7	145.2	1616.3	1827.6	1856.1
40°	9.1	9.1	9.1	9.1	10.4	13.0	19.4	32.4	49.3	1300.1	1753.7
42.5°	7.8	7.8	7.8	7.8	7.8	7.8	9.1	11.7	23.3	55.7	920.3
45°	5.2	5.2	3.9	5.2	5.2	6.5	7.8	7.8	10.4	35.0	63.5
47.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	6.5	7.8	23.3	33.7
50°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	18.1	23.3
52.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	7.8	20.7
55°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.9	3.9	5.2	18.1
57.5°	2.6	2.6	2.6	2.6	2.6	3.9	2.6	2.6	3.9	3.9	16.9
60°	2.6	2.6	2.6	2.6	2.6	3.9	3.9	3.9	3.9	3.9	15.6
62.5°	3.9	3.9	2.6	3.9	2.6	2.6	3.9	3.9	3.9	3.9	10.4
65°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	2.6	3.9
67.5°	3.9	3.9	3.9	3.9	2.6	3.9	2.6	3.9	3.9	2.6	2.6
70°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	2.6	2.6	2.6	2.6
72.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	2.6	2.6	2.6	2.6
75°	3.9	3.9	3.9	3.9	3.9	3.9	5.2	5.2	2.6	2.6	2.6
77.5°	3.9	3.9	3.9	3.9	3.9	3.9	6.5	7.8	6.5	6.5	2.6
80°	3.9	3.9	3.9	3.9	3.9	3.9	6.5	6.5	6.5	6.5	9.1
82.5°	3.9	3.9	3.9	3.9	3.9	3.9	5.2	5.2	5.2	5.2	6.5
85°	3.9	3.9	3.9	3.9	3.9	3.9	5.2	5.2	5.2	3.9	5.2
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.2	3.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8
2.5°	4419.9	4375.8	4361.6	4331.8	4329.2	4331.8	4325.3	4316.2	4321.4	4312.3	4304.6
5°	4915.0	4797.1	4720.6	4618.2	4476.9	4445.8	4438.1	4394.0	4378.4	4373.2	4352.5
7.5°	4514.5	4729.7	4859.3	4903.4	4737.5	4698.6	4653.2	4616.9	4581.9	4515.8	4475.6
10°	4337.0	4347.3	4471.8	4616.9	4852.8	4885.2	4909.9	4830.8	4808.8	4640.3	4604.0
12.5°	4295.5	4296.8	4311.0	4399.2	4584.5	4605.3	4692.1	4738.8	4795.8	4828.2	4802.3
15°	4106.2	4211.2	4289.0	4296.8	4313.6	4349.9	4375.8	4537.9	4606.6	4790.6	4780.2
17.5°	4018.1	4051.8	4164.6	4256.6	4241.0	4228.1	4248.8	4270.9	4337.0	4521.0	4518.4
20°	3871.6	3979.2	4040.1	4136.1	4222.9	4226.8	4203.5	4190.5	4164.6	4194.4	4221.6
22.5°	3809.4	3826.3	3940.3	4007.7	4106.2	4141.2	4146.4	4147.7	4133.5	4117.9	4110.1
25°	3802.9	3749.8	3808.1	3892.4	3965.0	4002.5	4045.3	4059.6	4054.4	4054.4	4046.6
27.5°	3112.1	3732.9	3701.8	3757.6	3845.7	3871.6	3893.7	3937.7	3965.0	3984.4	3993.5
30°	2964.3	3075.8	3618.9	3626.7	3716.1	3713.5	3738.1	3774.4	3809.4	3854.8	3866.5
32.5°	2622.1	2895.6	3313.0	3495.7	3589.1	3598.1	3611.1	3621.5	3653.9	3704.4	3748.5
35°	2101.1	2637.7	2838.6	3433.5	3450.4	3468.5	3476.3	3500.9	3511.3	3532.0	3570.9
37.5°	1901.5	2180.1	2723.2	2969.5	3291.0	3306.5	3348.0	3358.4	3375.2	3392.1	3421.9
40°	1786.1	1862.6	2267.0	2651.9	3162.6	3173.0	3187.3	3213.2	3214.5	3233.9	3261.1
42.5°	1694.1	1743.3	1861.3	2532.7	3071.9	3070.6	3036.9	3053.8	3061.5	3082.3	3119.9
45°	1353.2	1635.8	1710.9	2068.7	2445.9	2622.1	2960.4	2904.7	2903.4	2911.2	2951.4
47.5°	68.7	1538.5	1591.7	1707.0	2309.8	2316.2	2360.3	2731.0	2788.0	2769.9	2773.8
50°	46.7	106.3	1482.8	1536.0	1990.9	2151.6	2184.0	2200.9	2414.7	2653.2	2614.4
52.5°	36.3	60.9	908.6	1425.8	1617.6	1735.6	1944.2	2063.5	2076.5	2172.4	2497.7
55°	32.4	46.7	98.5	1315.6	1375.2	1401.2	1523.0	1731.7	1900.2	1950.7	1954.6
57.5°	28.5	42.8	67.4	594.9	1250.8	1256.0	1276.7	1349.3	1501.0	1639.6	1796.5
60°	25.9	37.6	53.1	102.4	1136.7	1149.7	1153.6	1173.0	1191.2	1285.8	1466.0
62.5°	15.6	29.8	46.7	73.9	899.5	1033.0	1031.7	1044.7	1061.6	1071.9	1108.2
65°	13.0	23.3	40.2	62.2	110.2	137.4	834.7	928.1	938.4	952.7	959.2
67.5°	11.7	20.7	29.8	49.3	83.0	94.6	108.9	134.8	736.2	829.5	842.5
70°	10.4	14.3	24.6	41.5	67.4	72.6	81.7	93.3	110.2	136.1	666.2
72.5°	6.5	10.4	16.9	29.8	51.8	58.3	63.5	71.3	79.1	94.6	108.9
75°	2.6	7.8	14.3	22.0	40.2	44.1	48.0	53.1	59.6	70.0	77.8
77.5°	2.6	6.5	11.7	15.6	25.9	29.8	35.0	38.9	44.1	49.3	57.0
80°	9.1	5.2	7.8	11.7	18.1	19.4	22.0	24.6	28.5	32.4	37.6
82.5°	6.5	7.8	9.1	7.8	9.1	11.7	13.0	15.6	16.9	19.4	20.7
85°	5.2	5.2	6.5	6.5	6.5	6.5	6.5	6.5	7.8	9.1	11.7
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.2	5.2
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: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8
2.5°	4304.6	4302.0	4294.2	4294.2	4292.9	4298.1	4302.0	4305.8	4304.6	4312.3	4304.6
5°	4337.0	4330.5	4318.8	4308.4	4304.6	4307.1	4303.3	4307.1	4302.0	4308.4	4296.8
7.5°	4426.4	4404.4	4359.0	4340.8	4317.5	4316.2	4304.6	4302.0	4294.2	4294.2	4279.9
10°	4584.5	4478.2	4465.3	4410.8	4391.4	4296.8	4317.5	4282.5	4278.6	4261.8	4255.3
12.5°	4714.1	4631.2	4606.6	4558.6	4504.2	4312.3	4355.1	4279.9	4276.0	4242.3	4207.3
15°	4716.7	4764.7	4697.3	4565.1	4553.4	4421.2	4334.4	4308.4	4274.7	4173.6	4190.5
17.5°	4565.1	4675.3	4707.7	4679.1	4596.2	4506.8	4384.9	4333.1	4232.0	4186.6	4155.5
20°	4318.8	4430.3	4569.0	4578.0	4629.9	4566.4	4406.9	4322.7	4200.9	4121.8	4095.9
22.5°	4123.1	4204.7	4364.2	4438.1	4501.6	4523.6	4422.5	4298.1	4146.4	4069.9	4054.4
25°	4019.4	4037.5	4085.5	4172.3	4312.3	4413.4	4427.7	4295.5	4216.4	4049.2	3961.1
27.5°	3981.8	3966.3	3946.8	3990.9	4095.9	4219.0	4300.7	4322.7	4125.7	3966.3	3878.1
30°	3885.9	3895.0	3865.2	3849.6	3918.3	4045.3	4190.5	4226.8	4075.1	3910.5	3809.4
32.5°	3767.9	3783.5	3788.7	3761.5	3747.2	3835.3	3992.2	4079.0	4071.2	3831.5	3718.7
35°	3620.2	3664.2	3675.9	3677.2	3653.9	3639.6	3730.4	3910.5	3979.2	3795.2	3631.8
37.5°	3464.6	3477.6	3541.1	3558.0	3558.0	3515.2	3582.6	3726.5	3822.4	3713.5	3525.6
40°	3270.2	3311.7	3371.3	3401.1	3430.9	3434.8	3397.2	3498.3	3656.5	3629.3	3425.8
42.5°	3128.9	3156.2	3192.4	3232.6	3293.5	3309.1	3270.2	3288.4	3453.0	3524.3	3296.1
45°	2964.3	3000.6	3011.0	3055.1	3118.6	3163.9	3162.6	3125.0	3257.3	3345.4	3201.5
47.5°	2795.8	2830.8	2849.0	2871.0	2917.7	2976.0	3008.4	2991.5	3017.5	3189.9	3075.8
50°	2622.1	2641.6	2677.9	2702.5	2733.6	2767.3	2845.1	2860.6	2824.3	2961.7	2937.1
52.5°	2457.5	2464.0	2488.6	2513.3	2554.7	2579.4	2641.6	2688.2	2685.6	2725.8	2782.9
55°	2329.2	2300.7	2305.9	2325.3	2352.5	2390.1	2425.1	2497.7	2522.3	2530.1	2620.8
57.5°	1819.8	2112.7	2138.7	2137.4	2169.8	2186.6	2219.0	2267.0	2355.1	2335.7	2436.8
60°	1653.9	1686.3	1931.3	1959.8	1971.5	1987.0	2025.9	2070.0	2134.8	2176.3	2220.3
62.5°	1261.2	1458.2	1532.1	1748.5	1782.2	1791.3	1817.2	1838.0	1905.4	2000.0	1981.8
65°	976.0	1060.3	1285.8	1373.9	1558.0	1581.3	1617.6	1639.6	1659.1	1768.0	1773.1
67.5°	843.8	856.8	917.7	1087.5	1204.1	1384.3	1406.3	1425.8	1455.6	1533.4	1581.3
70°	720.7	736.2	753.1	767.3	919.0	1038.2	1205.4	1211.9	1231.4	1283.2	1392.1
72.5°	136.1	615.7	626.0	635.1	652.0	731.0	890.5	1020.1	1027.9	1052.5	1152.3
75°	92.0	107.6	147.8	508.1	524.9	530.1	557.3	719.4	838.6	843.8	887.9
77.5°	66.1	73.9	89.4	106.3	270.9	407.0	413.5	443.3	566.4	655.9	663.6
80°	45.4	50.6	59.6	67.4	83.0	108.9	300.7	309.8	325.3	448.5	471.8
82.5°	25.9	29.8	35.0	42.8	49.3	62.2	80.4	103.7	211.3	225.5	299.4
85°	13.0	14.3	16.9	20.7	24.6	29.8	40.2	49.3	67.4	121.8	125.7
87.5°	6.5	6.5	6.5	6.5	10.4	11.7	14.3	18.1	23.3	35.0	45.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8
2.5°	4305.8	4324.0	4339.5	4343.4	4343.4	4346.0	4349.9	4352.5	4355.1	4357.7	4355.1
5°	4298.1	4317.5	4330.5	4334.4	4334.4	4342.1	4348.6	4356.4	4360.3	4360.3	4357.7
7.5°	4278.6	4292.9	4309.7	4320.1	4321.4	4334.4	4346.0	4344.7	4349.9	4352.5	4359.0
10°	4252.7	4252.7	4281.2	4289.0	4295.5	4309.7	4313.6	4321.4	4339.5	4342.1	4359.0
12.5°	4239.7	4226.8	4260.5	4264.4	4286.4	4268.3	4291.6	4299.4	4281.2	4305.8	4273.4
15°	4181.4	4197.0	4191.8	4203.5	4242.3	4221.6	4285.1	4264.4	4311.0	4255.3	4353.8
17.5°	4133.5	4130.9	4151.6	4162.0	4169.8	4213.8	4230.7	4254.0	4272.1	4256.6	4295.5
20°	4098.5	4077.7	4093.3	4104.9	4132.2	4165.9	4176.2	4141.2	4202.2	4305.8	4330.5
22.5°	4032.4	4018.1	4036.2	4036.2	4077.7	4072.5	4111.4	4089.4	4146.4	4267.0	4392.7
25°	3942.9	3944.2	3963.7	3987.0	3994.8	4053.1	4073.8	4102.4	4173.6	4317.5	4394.0
27.5°	3852.2	3844.4	3856.1	3904.0	3944.2	3987.0	3993.5	4090.7	4187.9	4286.4	4353.8
30°	3761.5	3753.7	3761.5	3796.5	3844.4	3872.9	3944.2	4073.8	4164.6	4232.0	4295.5
32.5°	3664.2	3656.5	3674.6	3700.5	3784.8	3788.7	3930.0	4051.8	4123.1	4172.3	4160.7
35°	3560.6	3550.2	3567.0	3607.2	3685.0	3713.5	3861.3	3952.0	4032.4	4055.7	4001.3
37.5°	3436.1	3418.0	3438.7	3494.5	3576.1	3659.1	3782.2	3887.2	3930.0	3867.7	3802.9
40°	3306.5	3293.5	3329.8	3358.4	3454.3	3569.6	3710.9	3784.8	3757.6	3686.3	3615.0
42.5°	3191.1	3163.9	3196.3	3250.8	3359.7	3490.6	3604.6	3646.1	3581.3	3476.3	3393.4
45°	3049.9	3017.5	3056.3	3128.9	3245.6	3394.6	3484.1	3469.8	3359.7	3268.9	3154.9
47.5°	2902.1	2863.2	2902.1	2988.9	3119.9	3278.0	3342.8	3278.0	3139.3	3025.2	2933.2
50°	2756.9	2711.6	2749.2	2880.1	3008.4	3130.2	3128.9	3003.2	2920.3	2795.8	2715.5
52.5°	2613.1	2548.3	2585.8	2728.4	2856.7	2995.4	2893.0	2776.4	2676.6	2567.7	2541.8
55°	2435.5	2365.5	2416.0	2623.4	2721.9	2803.6	2640.3	2537.9	2439.4	2384.9	2352.5
57.5°	2267.0	2190.5	2234.6	2479.6	2552.1	2572.9	2422.5	2277.4	2219.0	2200.9	2154.2
60°	2093.3	2006.5	2047.9	2330.5	2381.0	2296.8	2149.0	2036.3	2024.6	1988.3	1952.0
62.5°	1927.4	1831.5	1857.4	2145.1	2168.5	2015.5	1879.4	1849.6	1821.1	1784.8	1765.4
65°	1736.9	1637.1	1673.3	1948.1	1926.1	1729.1	1652.6	1646.1	1608.5	1578.7	1607.2
67.5°	1561.9	1443.9	1494.5	1733.0	1633.2	1472.4	1441.3	1425.8	1396.0	1412.8	1113.4
70°	1370.0	1241.7	1310.4	1501.0	1353.2	1246.9	1235.2	1211.9	1213.2	964.3	812.7
72.5°	1156.2	1044.7	1144.5	1246.9	1070.6	1039.5	1022.7	1020.1	823.1	668.8	631.2
75°	968.2	855.5	963.0	1001.9	852.9	832.1	830.8	687.0	540.5	515.9	504.2
77.5°	755.7	668.8	771.2	712.9	654.6	631.2	566.4	425.1	407.0	390.1	146.5
80°	509.4	515.9	575.5	491.2	466.6	397.9	313.7	300.7	259.2	103.7	81.7
82.5°	309.8	388.8	366.8	307.2	300.7	216.5	198.3	101.1	75.2	59.6	51.8
85°	160.7	197.0	189.2	167.2	124.4	111.5	62.2	48.0	38.9	29.8	24.6
87.5°	54.4	72.6	70.0	55.7	42.8	33.7	22.0	18.1	13.0	10.4	9.1
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: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8
2.5°	4352.5	4352.5	4349.9	4352.5	4353.8	4351.2	4351.2	4353.8	4355.1	4356.4	4362.9
5°	4359.0	4361.6	4365.5	4373.2	4374.5	4390.1	4396.6	4400.5	4404.4	4405.7	4396.6
7.5°	4373.2	4382.3	4390.1	4388.8	4379.7	4355.1	4347.3	4340.8	4352.5	4382.3	4417.3
10°	4386.2	4344.7	4267.0	4373.2	4340.8	4370.7	4458.8	4478.2	4537.9	4622.1	4646.7
12.5°	4296.8	4410.8	4435.5	4316.2	4536.6	4454.9	4552.1	4637.7	4662.3	4747.8	4696.0
15°	4392.7	4448.4	4486.0	4605.3	4592.3	4662.3	4689.5	4672.7	4676.6	4698.6	4756.9
17.5°	4391.4	4502.9	4527.5	4607.9	4662.3	4663.6	4655.8	4648.0	4668.8	4685.6	4650.6
20°	4466.6	4502.9	4550.8	4583.2	4593.6	4606.6	4631.2	4611.7	4572.9	4535.3	4519.7
22.5°	4429.0	4510.6	4552.1	4557.3	4550.8	4510.6	4474.3	4419.9	4401.8	4382.3	4388.8
25°	4436.8	4474.3	4469.2	4448.4	4421.2	4346.0	4327.9	4304.6	4269.6	4185.3	4108.8
27.5°	4381.0	4361.6	4338.3	4287.7	4238.4	4198.3	4152.9	4077.7	4015.5	3924.8	3891.1
30°	4287.7	4209.9	4152.9	4123.1	4075.1	4007.7	3939.0	3847.0	3767.9	3749.8	3732.9
32.5°	4108.8	4032.4	3985.7	3913.1	3831.5	3751.1	3672.0	3635.7	3618.9	3621.5	3605.9
35°	3926.1	3858.7	3788.7	3679.8	3618.9	3538.5	3510.0	3502.2	3486.7	3469.8	3451.7
37.5°	3731.6	3652.6	3547.6	3482.8	3421.9	3389.5	3375.2	3363.5	3336.3	3306.5	3285.8
40°	3543.7	3401.1	3342.8	3279.3	3261.1	3246.9	3226.1	3197.6	3160.0	3154.9	3145.8
42.5°	3292.3	3189.9	3139.3	3126.3	3104.3	3079.7	3061.5	3030.4	3014.9	3025.2	3033.0
45°	3053.8	3001.9	2985.1	2969.5	2928.0	2893.0	2881.4	2871.0	2884.0	2941.0	2804.9
47.5°	2860.6	2839.9	2819.2	2793.2	2754.3	2728.4	2740.1	2750.5	2762.1	2343.5	2138.7
50°	2693.4	2664.9	2632.5	2604.0	2580.7	2578.1	2639.0	2456.2	2057.0	2046.6	1839.3
52.5°	2510.7	2467.9	2448.4	2431.6	2442.0	2480.9	2053.1	1905.4	1827.6	1587.8	1481.5
55°	2313.6	2276.1	2276.1	2291.6	2235.9	1812.0	1790.0	1547.6	1401.2	1359.7	1342.8
57.5°	2116.6	2112.7	2134.8	1952.0	1644.8	1577.4	1326.0	1272.8	1249.5	1244.3	1217.1
60°	1936.5	1972.8	1651.3	1519.1	1320.8	1191.2	1154.9	1148.4	1123.8	1114.7	1090.1
62.5°	1792.6	1486.7	1384.3	1130.3	1064.1	1047.3	1027.9	1018.8	996.7	880.1	257.9
65°	1294.9	1223.6	992.9	950.1	944.9	920.3	912.5	820.5	193.1	129.6	110.2
67.5°	977.3	867.1	837.3	829.5	804.9	755.7	224.2	128.3	110.2	95.9	84.3
70°	750.5	731.0	709.0	690.9	203.5	127.0	110.2	93.3	80.4	71.3	64.8
72.5°	614.4	601.4	350.0	133.5	108.9	92.0	81.7	71.3	62.2	57.0	51.8
75°	480.9	133.5	110.2	92.0	79.1	67.4	59.6	53.1	48.0	44.1	40.2
77.5°	108.9	88.1	75.2	63.5	57.0	50.6	45.4	38.9	35.0	31.1	25.9
80°	67.4	58.3	49.3	45.4	38.9	32.4	28.5	25.9	20.7	19.4	16.9
82.5°	44.1	35.0	31.1	25.9	20.7	19.4	16.9	13.0	11.7	10.4	9.1
85°	19.4	16.9	14.3	11.7	9.1	7.8	6.5	5.2	5.2	5.2	5.2
87.5°	6.5	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	2.6	2.6
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: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8
2.5°	4365.5	4388.8	4410.8	4404.4	4381.0	4344.7	4334.4	4320.1	4330.5	4352.5	4361.6
5°	4396.6	4383.6	4430.3	4499.0	4610.4	4620.8	4698.6	4716.7	4778.9	4817.8	4816.5
7.5°	4440.6	4624.7	4701.2	4784.1	4821.7	4812.6	4824.3	4815.2	4801.0	4794.5	4786.7
10°	4664.9	4804.9	4833.4	4833.4	4775.1	4696.0	4662.3	4604.0	4487.3	4489.9	4470.5
12.5°	4795.8	4845.1	4777.7	4720.6	4486.0	4395.3	4296.8	4250.1	4222.9	4181.4	4197.0
15°	4727.1	4657.1	4616.9	4432.9	4289.0	4125.7	4128.3	4099.8	4069.9	4072.5	4053.1
17.5°	4626.0	4570.3	4285.1	4158.1	4088.1	4024.6	4012.9	3975.3	3955.9	3949.4	3948.1
20°	4487.3	4286.4	4073.8	4042.7	3958.5	3885.9	3874.2	3885.9	3945.5	3839.2	3478.9
22.5°	4325.3	4036.2	3974.0	3885.9	3828.9	3800.3	3871.6	3547.6	3057.6	3117.3	3053.8
25°	4050.5	3924.8	3818.5	3751.1	3744.6	3569.6	2974.7	2912.5	2597.5	2429.0	2239.8
27.5°	3849.6	3795.2	3683.7	3672.0	3587.8	2919.0	2609.2	2267.0	2141.3	2121.8	2080.3
30°	3727.8	3650.0	3582.6	3288.4	2863.2	2349.9	2093.3	2045.3	2023.3	2000.0	1963.7
32.5°	3581.3	3507.4	3539.8	2764.7	2282.5	2023.3	1971.5	1936.5	1896.3	1880.7	1749.8
35°	3432.2	3398.5	2766.0	2324.0	1962.4	1900.2	1861.3	1825.0	1451.7	351.3	119.2
37.5°	3272.8	3265.0	2486.0	1928.7	1838.0	1779.6	1669.5	344.8	81.7	55.7	41.5
40°	3148.4	2487.3	1965.0	1808.1	1734.3	1642.2	230.7	57.0	36.3	22.0	14.3
42.5°	3065.4	2237.2	1758.9	1696.7	1536.0	169.8	58.3	24.6	14.3	11.7	9.1
45°	2362.9	1766.7	1643.5	1578.7	194.4	58.3	33.7	11.7	9.1	7.8	5.2
47.5°	2180.1	1604.6	1532.1	344.8	64.8	31.1	23.3	7.8	5.2	5.2	5.2
50°	1651.3	1482.8	1219.7	84.3	41.5	22.0	16.9	5.2	5.2	5.2	3.9
52.5°	1447.8	1368.7	130.9	55.7	32.4	16.9	10.4	3.9	3.9	3.9	3.9
55°	1323.4	868.4	77.8	42.8	27.2	15.6	6.5	3.9	3.9	3.9	2.6
57.5°	1210.6	116.7	57.0	36.3	24.6	14.3	3.9	3.9	3.9	3.9	2.6
60°	1026.6	84.3	46.7	32.4	23.3	13.0	3.9	3.9	3.9	3.9	3.9
62.5°	133.5	66.1	40.2	28.5	16.9	10.4	2.6	3.9	3.9	3.9	3.9
65°	97.2	51.8	36.3	19.4	10.4	3.9	2.6	3.9	3.9	3.9	3.9
67.5°	75.2	42.8	27.2	16.9	9.1	2.6	2.6	3.9	3.9	3.9	3.9
70°	59.6	36.3	22.0	14.3	7.8	2.6	2.6	3.9	3.9	3.9	3.9
72.5°	46.7	25.9	15.6	7.8	5.2	2.6	2.6	3.9	3.9	3.9	3.9
75°	35.0	20.7	11.7	6.5	2.6	2.6	2.6	3.9	3.9	3.9	3.9
77.5°	23.3	13.0	9.1	5.2	5.2	5.2	6.5	6.5	3.9	3.9	3.9
80°	15.6	9.1	6.5	6.5	6.5	5.2	6.5	6.5	3.9	6.5	3.9
82.5°	7.8	6.5	6.5	5.2	5.2	3.9	5.2	5.2	5.2	5.2	3.9
85°	5.2	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.2	5.2	3.9
87.5°	2.6	2.6	2.6	2.6	3.9	3.9	3.9	3.9	5.2	5.2	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8
2.5°	4349.9	4353.8	4343.4	4399.2	4370.7	4373.2	4384.9	4355.1	4361.6	4340.8	4326.6
5°	4821.7	4829.5	4837.3	4839.9	4845.1	4851.5	4843.8	4839.9	4832.1	4806.2	4778.9
7.5°	4747.8	4738.8	4734.9	4740.1	4749.1	4753.0	4746.5	4755.6	4789.3	4803.6	4812.6
10°	4359.0	4317.5	4346.0	4342.1	4309.7	4418.6	4388.8	4405.7	4417.3	4536.6	4609.2
12.5°	4173.6	4199.6	4150.3	4125.7	4158.1	4180.1	4202.2	4155.5	4220.3	4190.5	4286.4
15°	4018.1	4002.5	3997.4	3998.7	3992.2	4023.3	4031.1	4041.4	4050.5	4090.7	4106.2
17.5°	3948.1	3974.0	3984.4	3992.2	3979.2	3965.0	3950.7	3930.0	3936.4	3926.1	3955.9
20°	3236.5	3149.7	3144.5	3195.0	3139.3	3170.4	3245.6	3748.5	3731.6	3927.4	3861.3
22.5°	2701.2	2619.5	2549.5	2488.6	2575.5	2611.8	2751.8	2909.9	3166.5	3126.3	3405.0
25°	2206.1	2176.3	2158.1	2149.0	2155.5	2152.9	2184.0	2257.9	2374.6	2649.4	3004.5
27.5°	2063.5	2049.2	2042.8	2022.0	2037.6	2032.4	2057.0	2072.6	2107.6	2134.8	2250.1
30°	1950.7	1933.9	1922.2	1900.2	1915.7	1917.0	1924.8	1965.0	1979.2	2002.6	2038.9
32.5°	712.9	420.0	394.0	374.6	409.6	534.0	937.1	1638.3	1869.1	1887.2	1928.7
35°	70.0	58.3	51.8	51.8	53.1	58.3	77.8	204.8	374.6	1447.8	1812.0
37.5°	27.2	23.3	19.4	18.1	19.4	22.0	29.8	38.9	53.1	110.2	491.2
40°	11.7	10.4	9.1	9.1	9.1	9.1	10.4	13.0	19.4	36.3	57.0
42.5°	7.8	6.5	6.5	6.5	6.5	6.5	6.5	6.5	9.1	11.7	23.3
45°	5.2	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.2	6.5	10.4
47.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.2
50°	3.9	3.9	3.9	3.9	2.6	3.9	2.6	3.9	3.9	3.9	3.9
52.5°	3.9	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.9	3.9
55°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.9
57.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
60°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
62.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.9	3.9	2.6
65°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.9	2.6
67.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
70°	3.9	3.9	2.6	3.9	2.6	2.6	3.9	3.9	3.9	2.6	2.6
72.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	7.8	7.8	5.2
75°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	6.5	7.8	6.5
77.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	6.5	6.5	6.5
80°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.2	5.2	5.2
82.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.2	5.2	5.2
85°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8
2.5°	4302.0	4300.7	4327.9	4348.6	4340.8	4348.6	4357.7	4359.0	4361.6	4351.2	4347.3
5°	4727.1	4686.9	4609.2	4553.4	4488.6	4370.7	4312.3	4318.8	4320.1	4316.2	4321.4
7.5°	4808.8	4804.9	4777.7	4766.0	4721.9	4637.7	4502.9	4479.5	4422.5	4386.2	4356.4
10°	4604.0	4697.3	4721.9	4763.4	4789.3	4773.8	4659.7	4642.9	4606.6	4565.1	4574.2
12.5°	4382.3	4458.8	4462.7	4688.2	4738.8	4744.0	4699.9	4723.2	4728.4	4635.1	4580.6
15°	4110.1	4146.4	4222.9	4432.9	4585.8	4681.7	4710.3	4723.2	4659.7	4655.8	4633.8
17.5°	3990.9	4014.2	4049.2	4167.2	4399.2	4540.5	4661.0	4651.9	4676.6	4658.4	4602.7
20°	3840.5	3860.0	3922.2	3981.8	4095.9	4283.8	4509.3	4526.2	4558.6	4554.7	4570.3
22.5°	3837.9	3769.2	3779.6	3826.3	3945.5	4114.0	4353.8	4409.5	4430.3	4444.5	4461.4
25°	3044.7	3590.4	3690.2	3720.0	3797.8	3896.3	4178.8	4199.6	4238.4	4302.0	4348.6
27.5°	2637.7	3008.4	3407.6	3615.0	3664.2	3745.9	3914.4	3945.5	4077.7	4093.3	4165.9
30°	2081.6	2368.1	2964.3	3463.3	3545.0	3602.0	3721.3	3783.5	3840.5	3902.7	3979.2
32.5°	1958.5	2003.9	2334.4	2865.8	3500.9	3458.2	3546.3	3583.9	3646.1	3700.5	3756.3
35°	1845.7	1876.8	1946.8	2347.3	2851.6	3340.2	3399.8	3424.5	3459.5	3500.9	3541.1
37.5°	1727.8	1774.4	1822.4	1930.0	2637.7	3246.9	3245.6	3274.1	3294.8	3329.8	3363.5
40°	313.7	1629.3	1707.0	1777.0	2045.3	2589.7	3100.4	3113.4	3127.6	3149.7	3184.7
42.5°	50.6	272.2	1599.5	1666.9	1743.3	2318.8	3034.3	2981.2	2972.1	2987.7	3018.8
45°	25.9	66.1	321.4	1556.7	1625.4	1849.6	2480.9	2889.1	2880.1	2850.3	2856.7
47.5°	19.4	41.5	79.1	537.9	1521.7	1587.8	2289.0	2264.4	2436.8	2767.3	2716.8
50°	16.9	28.5	46.7	110.2	1344.1	1462.1	1762.8	2059.6	2150.3	2162.0	2558.6
52.5°	15.6	19.4	33.7	71.3	282.6	1351.9	1433.6	1537.2	1690.2	2018.1	2010.3
55°	14.3	18.1	28.5	48.0	98.5	1218.4	1302.6	1322.1	1354.5	1511.3	1718.7
57.5°	7.8	16.9	27.2	41.5	73.9	222.9	1182.1	1197.7	1223.6	1230.1	1303.9
60°	3.9	15.6	24.6	36.3	54.4	103.7	1062.9	1081.0	1096.6	1099.1	1122.5
62.5°	2.6	14.3	20.7	33.7	45.4	73.9	251.5	513.3	976.0	976.0	1003.2
65°	2.6	10.4	13.0	22.0	41.5	60.9	106.3	123.1	239.8	589.8	880.1
67.5°	2.6	3.9	11.7	18.1	31.1	46.7	77.8	90.7	108.9	124.4	230.7
70°	2.6	2.6	10.4	11.7	19.4	35.0	55.7	63.5	73.9	84.3	97.2
72.5°	2.6	2.6	9.1	9.1	13.0	23.3	42.8	46.7	53.1	59.6	68.7
75°	6.5	5.2	7.8	7.8	9.1	18.1	32.4	36.3	38.9	44.1	50.6
77.5°	6.5	6.5	6.5	6.5	6.5	11.7	20.7	23.3	27.2	29.8	35.0
80°	5.2	5.2	5.2	6.5	6.5	7.8	13.0	14.3	15.6	19.4	20.7
82.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	7.8	9.1	11.7
85°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.2	5.2	5.2	5.2
87.5°	3.9	3.9	3.9	2.6	2.6	3.9	3.9	3.9	3.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8	4318.8
2.5°	4346.0	4338.3	4331.8	4335.7	4324.0	4318.8	4322.7	4324.0	4326.6	4333.1	4334.4
5°	4334.4	4331.8	4343.4	4349.9	4347.3	4349.9	4349.9	4344.7	4337.0	4342.1	4330.5
7.5°	4326.6	4309.7	4296.8	4299.4	4286.4	4302.0	4316.2	4337.0	4343.4	4343.4	4330.5
10°	4460.1	4441.9	4369.4	4320.1	4287.7	4259.2	4326.6	4257.9	4290.3	4167.2	4308.4
12.5°	4570.3	4594.9	4562.5	4427.7	4404.4	4318.8	4368.1	4283.8	4259.2	4117.9	4163.3
15°	4614.3	4567.7	4557.3	4519.7	4469.2	4444.5	4312.3	4298.1	4257.9	4273.4	4213.8
17.5°	4575.5	4598.8	4567.7	4543.0	4491.2	4432.9	4353.8	4283.8	4228.1	4103.6	4208.6
20°	4537.9	4569.0	4475.6	4491.2	4496.4	4429.0	4387.5	4329.2	4259.2	4142.5	4051.8
22.5°	4475.6	4453.6	4461.4	4438.1	4418.6	4427.7	4370.7	4330.5	4212.5	4159.4	4036.2
25°	4374.5	4366.8	4387.5	4384.9	4338.3	4322.7	4294.2	4251.4	4204.7	4119.2	4018.1
27.5°	4209.9	4250.1	4286.4	4303.3	4278.6	4237.2	4221.6	4197.0	4164.6	4077.7	4002.5
30°	4036.2	4081.6	4123.1	4159.4	4181.4	4163.3	4149.0	4134.8	4085.5	4028.5	3944.2
32.5°	3837.9	3897.6	3954.6	3998.7	4046.6	4060.9	4050.5	4038.8	3997.4	3945.5	3878.1
35°	3608.5	3690.2	3773.1	3852.2	3872.9	3906.6	3940.3	3920.9	3898.9	3847.0	3784.8
37.5°	3414.1	3472.4	3532.0	3631.8	3704.4	3747.2	3806.8	3814.6	3777.0	3752.4	3670.7
40°	3213.2	3266.3	3353.2	3411.5	3511.3	3560.6	3624.1	3652.6	3643.5	3629.3	3558.0
42.5°	3055.1	3081.0	3138.0	3189.9	3288.4	3389.5	3445.2	3476.3	3508.7	3497.0	3460.8
45°	2886.6	2909.9	2929.3	2974.7	3070.6	3160.0	3228.7	3275.4	3333.7	3360.9	3316.9
47.5°	2719.3	2725.8	2749.2	2786.7	2843.8	2912.5	3027.8	3097.8	3152.3	3205.4	3176.9
50°	2591.0	2567.7	2571.6	2594.9	2641.6	2709.0	2791.9	2890.4	2952.7	3017.5	3023.9
52.5°	2264.4	2453.6	2408.3	2421.2	2445.9	2478.3	2565.1	2662.3	2738.8	2794.5	2850.3
55°	1900.2	1937.8	2302.0	2250.1	2265.7	2294.2	2334.4	2431.6	2505.5	2583.3	2661.0
57.5°	1473.7	1753.7	1768.0	2105.0	2097.2	2099.8	2133.5	2189.2	2263.1	2360.3	2426.4
60°	1145.8	1263.8	1493.2	1609.8	1905.4	1915.7	1935.2	1967.6	2031.1	2123.1	2228.1
62.5°	1011.0	1026.6	1108.2	1283.2	1475.0	1707.0	1748.5	1753.7	1782.2	1874.2	1996.1
65°	887.9	898.2	922.9	941.0	1101.7	1326.0	1525.6	1558.0	1576.1	1630.6	1734.3
67.5°	611.8	773.8	795.8	808.8	824.4	928.1	1175.6	1340.2	1361.0	1408.9	1499.7
70°	118.0	245.0	670.1	684.4	692.2	715.5	755.7	1017.5	1154.9	1200.2	1241.7
72.5°	80.4	94.6	114.1	269.6	570.3	583.3	592.3	626.0	858.1	990.3	1012.3
75°	58.3	64.8	76.5	94.6	116.7	379.8	470.5	487.4	504.2	696.0	807.5
77.5°	41.5	46.7	51.8	60.9	71.3	92.0	132.2	364.2	381.1	390.1	550.9
80°	23.3	28.5	35.0	40.2	45.4	51.8	67.4	84.3	187.9	274.8	289.0
82.5°	13.0	15.6	18.1	22.0	24.6	31.1	37.6	45.4	59.6	88.1	186.6
85°	6.5	6.5	6.5	9.1	10.4	14.3	16.9	19.4	27.2	37.6	51.8
87.5°	3.9	3.9	5.2	5.2	5.2	6.5	6.5	6.5	7.8	11.7	16.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	356°	357°	358°	359°	360°
0°	4318.8	4318.8	4318.8	4318.8	4318.8
2.5°	4335.7	4331.8	4331.8	4347.3	4343.4
5°	4327.9	4324.0	4322.7	4339.5	4331.8
7.5°	4321.4	4307.1	4303.3	4318.8	4312.3
10°	4295.5	4285.1	4291.6	4286.4	4283.8
12.5°	4251.4	4244.9	4217.7	4220.3	4242.3
15°	4172.3	4198.3	4151.6	4193.1	4202.2
17.5°	4027.2	4085.5	4130.9	4155.5	4159.4
20°	4092.0	4111.4	4088.1	4089.4	4104.9
22.5°	4007.7	4016.8	4023.3	4015.5	4049.2
25°	3872.9	3837.9	3913.1	3928.7	3983.1
27.5°	3831.5	3802.9	3837.9	3835.3	3880.7
30°	3797.8	3705.7	3721.3	3745.9	3801.6
32.5°	3749.8	3604.6	3589.1	3643.5	3705.7
35°	3665.5	3528.2	3491.9	3526.9	3620.2
37.5°	3594.3	3421.9	3349.3	3395.9	3517.8
40°	3488.0	3338.9	3226.1	3267.6	3411.5
42.5°	3360.9	3267.6	3093.9	3122.5	3287.1
45°	3232.6	3149.7	2965.6	2979.9	3175.6
47.5°	3101.7	3025.2	2832.1	2834.7	3033.0
50°	2973.4	2872.3	2712.9	2667.5	2881.4
52.5°	2806.2	2712.9	2592.3	2518.4	2737.5
55°	2648.1	2543.1	2454.9	2340.9	2574.2
57.5°	2493.8	2377.2	2317.5	2171.1	2388.8
60°	2282.5	2226.8	2138.7	1998.7	2221.6
62.5°	2066.1	2047.9	1958.5	1813.3	2015.5
65°	1813.3	1856.1	1764.1	1639.6	1801.7
67.5°	1574.8	1651.3	1550.2	1473.7	1595.6
70°	1320.8	1408.9	1351.9	1324.7	1376.5
72.5°	1070.6	1156.2	1161.4	1141.9	1158.8
75°	827.0	921.6	973.4	943.6	947.5
77.5°	627.3	672.7	729.7	753.1	747.9
80°	387.6	466.6	513.3	561.2	544.4
82.5°	195.7	261.8	318.9	370.7	346.1
85°	81.7	105.0	146.5	193.1	185.4
87.5°	24.6	41.5	44.1	62.2	58.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)