

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-L940-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-L940-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
METALIC FINISH REFLECTOR  
Light Source: -  
Ballast/Driver: -

**Summary**

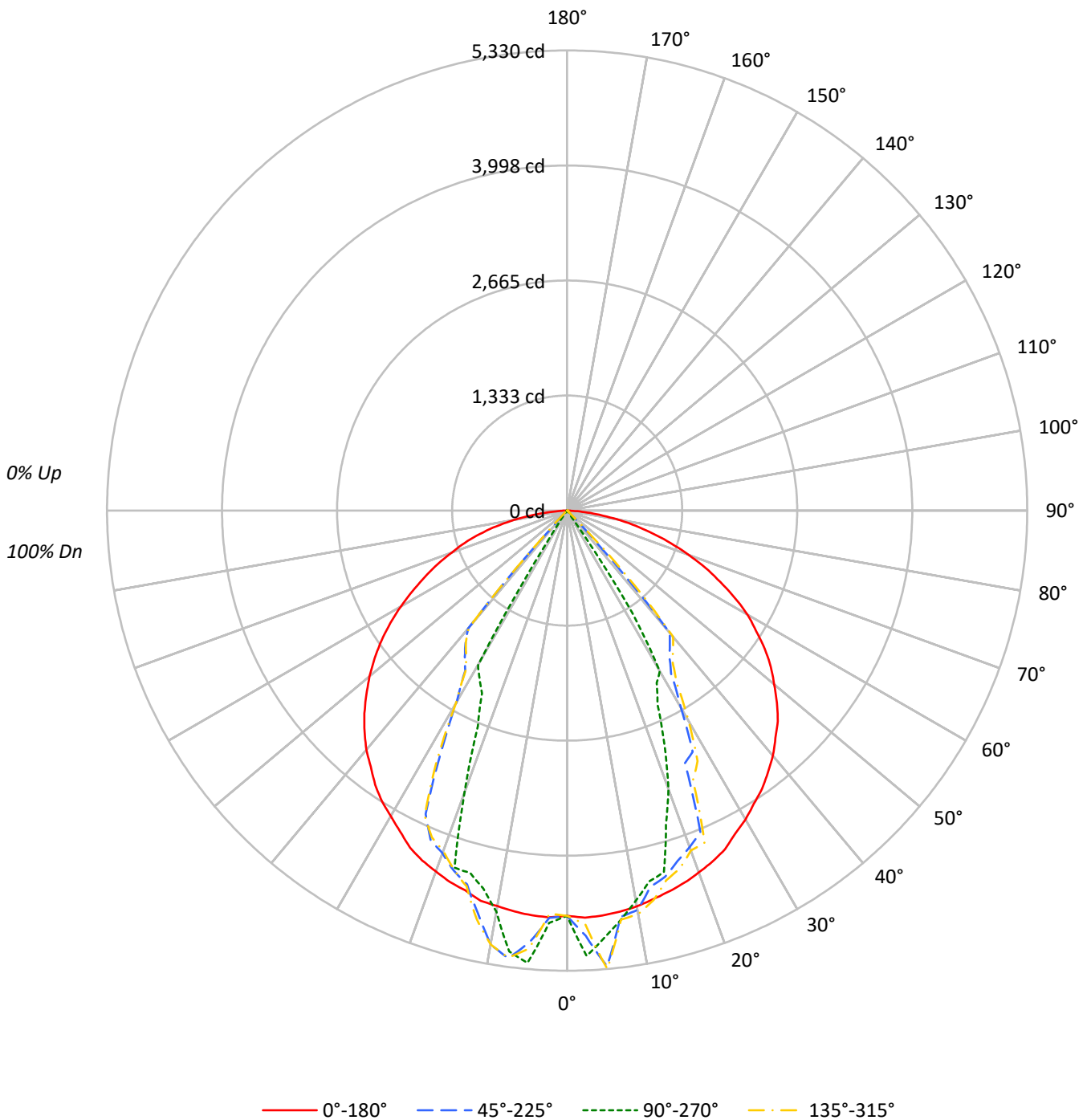
Lumens per Lamp: N/A  
Luminaire Lumens: 6672.9 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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



TEST NUMBER: P#  
CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L940-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L940-CD1-U

**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°	18962	18962	18962	18962
5°	19065	19502	19060	20652
10°	19046	17647	19034	18157
15°	19021	16472	18974	16515
20°	19071	12974	19017	13134
25°	19156	9389	19063	8860
30°	19101	8236	18899	7918
35°	19194	182	18912	220
40°	19300	40	18838	40
45°	19414	23	18685	17
50°	19321	18	18435	18
55°	19275	13	18090	13
60°	18994	14	17509	14
65°	18110	22	16821	15
70°	16943	24	16129	24
75°	15188	27	15437	27
80°	12643	31	13367	31
85°	7922	37	8087	37



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L940-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	470.8	7.1
10°-20°	1284.3	19.2
20°-30°	1634.2	24.5
30°-40°	1380.5	20.7
40°-50°	902.5	13.5
50°-60°	568.6	8.5
60°-70°	302.7	4.5
70°-80°	110.3	1.7
80°-90°	19.0	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°	3389.3	50.8
0°-40°	4769.8	71.5
0°-60°	6240.9	93.5
0°-90°	6672.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6672.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4693	4693	4693	4693	4693	
5°	4707	4966	4706	5259	4707	448
15°	4566	4334	4555	4345	4566	1291
25°	4328	2475	4307	2335	4328	1990
35°	3934	46	3876	56	3934	2461
45°	3451	6	3321	4	3451	2654
55°	2797	3	2625	3	2797	2492
65°	1958	4	1818	3	1958	1939
75°	1030	4	1046	4	1030	1093
85°	201	4	206	4	201	255
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0
2.5°	4719.7	4722.5	4723.9	4726.8	4731.0	4732.4	4735.2	4732.4	4732.4	4732.4	4732.4
5°	4707.0	4712.7	4716.9	4722.5	4732.4	4733.8	4745.1	4746.5	4752.1	4763.4	4771.8
7.5°	4685.9	4691.5	4700.0	4714.1	4728.2	4743.7	4763.4	4784.5	4814.1	4842.2	4877.5
10°	4654.9	4662.0	4671.8	4684.5	4753.5	4763.4	4807.0	4867.6	4884.5	4973.2	5039.4
12.5°	4609.9	4633.8	4659.1	4670.4	4736.6	4840.8	4987.3	4957.7	4925.3	5215.5	5211.3
15°	4566.2	4598.6	4585.9	4677.5	4738.0	4919.7	4857.7	4990.1	5232.4	5173.2	5176.1
17.5°	4519.7	4526.8	4597.2	4673.2	4781.7	4874.6	4950.7	5132.4	5180.3	5184.5	5132.4
20°	4460.6	4494.4	4597.2	4666.2	4849.3	4893.0	5057.7	5150.7	5131.0	5083.1	4994.4
22.5°	4400.0	4502.8	4607.0	4704.2	4832.4	4949.3	5031.0	5074.6	4971.8	4783.1	4681.7
25°	4328.2	4388.7	4525.3	4667.6	4828.2	4895.8	4943.7	4873.2	4739.4	4570.4	4400.0
27.5°	4216.9	4314.1	4488.7	4649.3	4794.4	4876.1	4798.6	4629.6	4414.1	4302.8	4225.3
30°	4131.0	4257.7	4401.4	4556.3	4707.0	4754.9	4557.7	4364.8	4216.9	4105.6	4088.7
32.5°	4026.8	4207.0	4343.7	4491.5	4618.3	4554.9	4363.4	4114.1	3991.5	3949.3	3966.2
35°	3933.8	4070.4	4249.3	4394.4	4485.9	4343.7	4040.8	3885.9	3826.8	3850.7	3819.7
37.5°	3822.5	4002.8	4167.6	4293.0	4262.0	4047.9	3791.5	3693.0	3700.0	3680.3	3621.1
40°	3707.0	3878.9	4050.7	4169.0	4060.6	3733.8	3563.4	3542.2	3546.5	3483.1	3398.6
42.5°	3571.8	3728.2	3900.0	4007.0	3773.2	3518.3	3402.8	3405.6	3369.0	3280.3	3235.2
45°	3450.7	3594.4	3773.2	3783.1	3495.8	3283.1	3249.3	3212.7	3131.0	3101.4	3067.6
47.5°	3295.8	3454.9	3602.8	3549.3	3223.9	3091.5	3066.2	2985.9	2945.1	2922.5	2894.4
50°	3131.0	3291.5	3426.8	3274.6	2967.6	2936.6	2853.5	2790.1	2762.0	2738.0	2712.7
52.5°	2974.6	3107.0	3245.1	2983.1	2770.4	2740.8	2646.5	2609.9	2581.7	2554.9	2549.3
55°	2797.2	2914.1	3008.4	2705.6	2581.7	2512.7	2445.1	2419.7	2393.0	2380.3	2401.4
57.5°	2595.8	2728.2	2714.1	2432.4	2377.5	2277.5	2252.1	2235.2	2215.5	2223.9	2047.9
60°	2414.1	2515.5	2446.5	2232.4	2139.4	2071.8	2049.3	2038.0	2049.3	1877.5	1650.7
62.5°	2190.1	2304.2	2164.8	1998.6	1900.0	1867.6	1847.9	1863.4	1698.6	1509.9	1454.9
65°	1957.7	2081.7	1876.1	1747.9	1685.9	1657.7	1656.3	1525.4	1363.4	1290.1	1290.1
67.5°	1733.8	1862.0	1597.2	1490.1	1466.2	1469.0	1387.3	1188.7	1143.7	1094.4	952.1
70°	1495.8	1608.4	1319.7	1254.9	1240.8	1231.0	1032.4	978.9	925.4	794.4	783.1
72.5°	1259.2	1314.1	1060.6	1045.1	1042.3	866.2	826.8	735.2	673.2	657.7	650.7
75°	1029.6	1012.7	838.0	852.1	718.3	656.3	593.0	539.4	531.0	525.4	131.0
77.5°	812.7	728.2	660.6	574.6	514.1	436.6	423.9	415.5	273.2	98.6	80.3
80°	591.5	471.8	439.4	373.2	318.3	305.6	312.7	95.8	76.1	63.4	54.9
82.5°	376.1	301.4	246.5	215.5	209.9	91.5	67.6	54.9	47.9	40.8	33.8
85°	201.4	133.8	123.9	104.2	62.0	42.3	35.2	26.8	22.5	18.3	16.9
87.5°	63.4	53.5	43.7	35.2	21.1	14.1	11.3	9.9	8.5	7.0	7.0
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0
2.5°	4729.6	4732.4	4731.0	4735.2	4735.2	4740.8	4745.1	4749.3	4757.7	4762.0	4794.4
5°	4790.1	4797.2	4818.3	4838.0	4862.0	4869.0	4909.9	4919.7	4967.6	4973.2	5131.0
7.5°	4925.3	4952.1	5002.8	5053.5	5104.2	5136.6	5193.0	5228.2	5266.2	5300.0	5425.3
10°	5088.7	5133.8	5183.1	5233.8	5263.4	5325.3	5359.1	5364.8	5354.9	5300.0	5097.2
12.5°	5249.3	5294.4	5273.2	5283.1	5318.3	5208.4	5223.9	5145.1	5200.0	4928.2	4726.8
15°	5226.8	5223.9	5171.8	5002.8	5031.0	4821.1	4736.6	4671.8	4723.9	4695.8	4664.8
17.5°	5159.1	5031.0	4940.8	4738.0	4652.1	4593.0	4594.4	4595.8	4570.4	4597.2	4518.3
20°	4873.2	4729.6	4595.8	4523.9	4498.6	4456.3	4477.5	4456.3	4457.7	4466.2	4345.1
22.5°	4493.0	4449.3	4371.8	4394.4	4385.9	4423.9	4395.8	4352.1	4366.2	4302.8	4211.3
25°	4339.4	4288.7	4285.9	4294.4	4281.7	4264.8	4239.4	4173.2	4169.0	4149.3	4107.0
27.5°	4184.5	4187.3	4195.8	4170.4	4125.3	4091.5	4053.5	4021.1	4033.8	4011.3	3953.5
30°	4077.5	4076.1	4025.3	4002.8	3919.7	3921.1	3911.3	3891.5	3878.9	3880.3	3843.7
32.5°	3925.3	3881.7	3823.9	3795.8	3788.7	3763.4	3743.7	3747.9	3757.7	3722.5	3760.6
35°	3769.0	3678.9	3670.4	3646.5	3623.9	3607.0	3614.1	3585.9	3584.5	3580.3	3270.4
37.5°	3559.2	3515.5	3511.3	3485.9	3470.4	3466.2	3439.4	3443.7	3456.3	3478.9	2788.7
40°	3385.9	3346.5	3336.6	3335.2	3301.4	3298.6	3305.6	3332.4	3350.7	3209.9	2657.7
42.5°	3200.0	3202.8	3171.8	3152.1	3156.3	3169.0	3202.8	3109.9	2694.4	2567.6	2429.6
45°	3040.8	3026.8	3009.9	3004.2	3040.8	3015.5	2643.7	2439.4	2390.1	2384.5	1997.2
47.5°	2874.6	2870.4	2863.4	2867.6	2659.2	2370.4	2285.9	2259.2	2267.6	2262.0	1715.5
50°	2707.0	2712.7	2712.7	2369.0	2174.6	2126.8	2133.8	2157.7	2008.4	1874.6	1598.6
52.5°	2562.0	2518.3	2157.7	2033.8	1990.1	2011.3	1960.6	1773.2	1638.0	1559.2	1478.9
55°	2293.0	1971.8	1891.5	1871.8	1887.3	1700.0	1584.5	1463.4	1428.2	1419.7	1373.2
57.5°	1804.2	1739.4	1746.5	1667.6	1488.7	1383.1	1336.6	1319.7	1304.2	1293.0	112.7
60°	1595.8	1614.1	1477.5	1308.4	1236.6	1222.5	1211.3	1195.8	1193.0	1173.2	71.8
62.5°	1460.6	1284.5	1166.2	1123.9	1107.0	1102.8	1081.7	1074.6	912.7	125.4	53.5
65°	1101.4	1029.6	1007.0	997.2	978.9	978.9	812.7	128.2	104.2	90.1	47.9
67.5°	898.6	893.0	881.7	869.0	591.5	123.9	108.5	94.4	81.7	71.8	42.3
70°	760.6	757.7	690.1	126.8	105.6	93.0	81.7	73.2	67.6	60.6	38.0
72.5°	623.9	126.8	107.0	93.0	80.3	73.2	66.2	59.2	53.5	49.3	31.0
75°	97.2	85.9	76.1	69.0	63.4	56.3	50.7	46.5	45.1	39.4	21.1
77.5°	70.4	60.6	54.9	49.3	43.7	39.4	33.8	29.6	26.8	22.5	15.5
80°	49.3	43.7	39.4	32.4	28.2	23.9	21.1	18.3	16.9	14.1	7.0
82.5°	28.2	23.9	21.1	16.9	15.5	12.7	11.3	9.9	9.9	7.0	7.0
85°	12.7	12.7	9.9	8.5	7.0	7.0	7.0	5.6	5.6	4.2	4.2
87.5°	5.6	5.6	5.6	5.6	5.6	4.2	4.2	4.2	4.2	4.2	2.8
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: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0
2.5°	4839.4	4857.7	4893.0	4929.6	4888.7	5035.2	5023.9	5073.2	5100.0	5112.7	5142.2
5°	5270.4	5352.1	5378.9	5298.6	5252.1	5204.2	5095.8	5014.1	5023.9	4997.2	4900.0
7.5°	5262.0	5087.3	4852.1	4745.1	4736.6	4723.9	4757.7	4777.5	4780.3	4778.9	4776.1
10°	4816.9	4726.8	4711.3	4697.2	4702.8	4650.7	4626.8	4559.2	4595.8	4576.1	4583.1
12.5°	4681.7	4660.6	4577.5	4462.0	4531.0	4478.9	4449.3	4469.0	4446.5	4425.3	4418.3
15°	4601.4	4464.8	4418.3	4390.1	4370.4	4359.2	4369.0	4346.5	4339.4	4335.2	4345.1
17.5°	4435.2	4380.3	4329.6	4254.9	4256.3	4252.1	4280.3	4322.5	4325.3	4108.4	3912.7
20°	4304.2	4259.2	4194.4	4147.9	4211.3	4098.6	3663.4	3456.3	3423.9	3423.9	3429.6
22.5°	4200.0	4100.0	4104.2	4031.0	3438.0	3316.9	3319.7	3332.4	3274.6	3077.5	3056.3
25°	4057.7	4042.2	3733.8	3226.8	3231.0	3136.6	2991.5	2787.3	2566.2	2566.2	2529.6
27.5°	3950.7	3622.5	3171.8	3150.7	2833.8	2633.8	2509.9	2322.5	2297.2	2273.2	2276.1
30°	3859.2	3064.8	3076.1	2633.8	2400.0	2233.8	2223.9	2193.0	2177.5	2173.2	2157.7
32.5°	3050.7	2984.5	2574.6	2242.3	2150.7	2123.9	2111.3	2076.1	2074.6	2047.9	1862.0
35°	2860.6	2619.7	2154.9	2064.8	2038.0	2012.7	1991.5	1336.6	157.7	63.4	54.9
37.5°	2643.7	2188.7	1993.0	1952.1	1926.8	1423.9	142.3	49.3	35.2	25.4	22.5
40°	2240.8	1954.9	1893.0	1847.9	762.0	49.3	31.0	23.9	14.1	12.7	11.3
42.5°	1890.1	1842.3	1776.1	540.8	56.3	23.9	15.5	11.3	9.9	9.9	8.5
45°	1769.0	1726.8	715.5	53.5	35.2	11.3	9.9	9.9	8.5	5.6	5.6
47.5°	1656.3	1457.7	64.8	33.8	22.5	9.9	8.5	5.6	5.6	5.6	4.2
50°	1536.6	80.3	45.1	25.4	14.1	5.6	5.6	5.6	5.6	4.2	4.2
52.5°	287.3	56.3	36.6	22.5	7.0	5.6	5.6	5.6	4.2	4.2	4.2
55°	67.6	45.1	33.8	19.7	5.6	5.6	5.6	4.2	4.2	4.2	2.8
57.5°	50.7	33.8	26.8	18.3	5.6	4.2	4.2	4.2	4.2	4.2	2.8
60°	42.3	23.9	21.1	16.9	4.2	4.2	4.2	4.2	4.2	4.2	2.8
62.5°	29.6	19.7	15.5	12.7	4.2	4.2	4.2	4.2	4.2	4.2	4.2
65°	23.9	15.5	12.7	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
67.5°	21.1	12.7	8.5	2.8	4.2	4.2	4.2	4.2	4.2	4.2	4.2
70°	16.9	4.2	4.2	2.8	4.2	4.2	4.2	4.2	4.2	4.2	4.2
72.5°	14.1	4.2	2.8	2.8	4.2	4.2	4.2	4.2	4.2	4.2	4.2
75°	14.1	7.0	2.8	2.8	4.2	4.2	5.6	5.6	4.2	4.2	4.2
77.5°	9.9	7.0	2.8	2.8	4.2	4.2	5.6	5.6	4.2	4.2	4.2
80°	5.6	7.0	2.8	4.2	4.2	8.5	9.9	5.6	4.2	4.2	4.2
82.5°	5.6	7.0	8.5	8.5	4.2	7.0	8.5	7.0	5.6	4.2	4.2
85°	5.6	4.2	5.6	7.0	4.2	7.0	7.0	5.6	5.6	4.2	4.2
87.5°	2.8	4.2	4.2	5.6	5.6	5.6	7.0	5.6	5.6	5.6	4.2
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0
2.5°	5156.3	5162.0	5073.2	5042.2	5069.0	5063.4	5039.4	4950.7	4940.8	4881.7	4795.8
5°	4928.2	4966.2	4919.7	5000.0	4962.0	5000.0	5115.5	5169.0	5256.3	5309.9	5329.6
7.5°	4769.0	4777.5	4777.5	4784.5	4791.5	4793.0	4784.5	4778.9	4754.9	4725.3	4778.9
10°	4576.1	4585.9	4602.8	4600.0	4598.6	4628.2	4635.2	4695.8	4693.0	4704.2	4745.1
12.5°	4476.1	4400.0	4469.0	4450.7	4476.1	4436.6	4509.9	4497.2	4501.4	4535.2	4622.5
15°	4309.9	4333.8	4350.7	4350.7	4360.6	4352.1	4343.7	4401.4	4436.6	4438.0	4432.4
17.5°	3990.1	3808.4	3994.4	3946.5	4328.2	4338.0	4305.6	4278.9	4278.9	4300.0	4345.1
20°	3425.3	3429.6	3431.0	3449.3	3471.8	3470.4	3471.8	4026.8	4290.1	4229.6	4188.7
22.5°	3002.8	2950.7	3047.9	3040.8	3162.0	3295.8	3423.9	3411.3	3419.7	3811.3	4163.4
25°	2407.0	2474.6	2419.7	2443.7	2580.3	2739.4	2838.0	3095.8	3376.1	3356.3	3447.9
27.5°	2266.2	2247.9	2273.2	2273.2	2291.5	2312.7	2367.6	2512.7	2762.0	3023.9	3271.8
30°	2132.4	2147.9	2150.7	2176.1	2190.1	2204.2	2212.7	2267.6	2323.9	2505.6	2811.3
32.5°	1601.4	1404.2	1847.9	1967.6	2069.0	2093.0	2109.9	2132.4	2173.2	2200.0	2353.5
35°	46.5	46.5	49.3	56.3	71.8	484.5	1845.1	2033.8	2060.6	2094.4	2122.5
37.5°	22.5	16.9	19.7	21.1	25.4	35.2	50.7	157.7	1756.3	1985.9	2016.9
40°	9.9	9.9	9.9	9.9	11.3	14.1	21.1	35.2	53.5	1412.7	1905.6
42.5°	8.5	8.5	8.5	8.5	8.5	8.5	9.9	12.7	25.4	60.6	1000.0
45°	5.6	5.6	4.2	5.6	5.6	7.0	8.5	8.5	11.3	38.0	69.0
47.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	7.0	8.5	25.4	36.6
50°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	19.7	25.4
52.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	8.5	22.5
55°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2	5.6	19.7
57.5°	2.8	2.8	2.8	2.8	2.8	4.2	2.8	2.8	4.2	4.2	18.3
60°	2.8	2.8	2.8	2.8	2.8	4.2	4.2	4.2	4.2	4.2	16.9
62.5°	4.2	4.2	2.8	4.2	2.8	2.8	4.2	4.2	4.2	4.2	11.3
65°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	2.8	4.2
67.5°	4.2	4.2	4.2	4.2	2.8	4.2	2.8	4.2	4.2	2.8	2.8
70°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	2.8	2.8	2.8	2.8
72.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	2.8	2.8	2.8	2.8
75°	4.2	4.2	4.2	4.2	4.2	4.2	5.6	5.6	2.8	2.8	2.8
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	7.0	8.5	7.0	7.0	2.8
80°	4.2	4.2	4.2	4.2	4.2	4.2	7.0	7.0	7.0	7.0	9.9
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	5.6	5.6	5.6	5.6	7.0
85°	4.2	4.2	4.2	4.2	4.2	4.2	5.6	5.6	5.6	4.2	5.6
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.6	4.2	4.2	4.2
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0
2.5°	4802.8	4754.9	4739.4	4707.0	4704.2	4707.0	4700.0	4690.1	4695.8	4685.9	4677.5
5°	5340.8	5212.7	5129.6	5018.3	4864.8	4831.0	4822.5	4774.6	4757.7	4752.1	4729.6
7.5°	4905.6	5139.4	5280.3	5328.2	5147.9	5105.6	5056.3	5016.9	4978.9	4907.0	4863.4
10°	4712.7	4723.9	4859.1	5016.9	5273.2	5308.4	5335.2	5249.3	5225.3	5042.2	5002.8
12.5°	4667.6	4669.0	4684.5	4780.3	4981.7	5004.2	5098.6	5149.3	5211.3	5246.5	5218.3
15°	4462.0	4576.1	4660.6	4669.0	4687.3	4726.8	4754.9	4931.0	5005.6	5205.6	5194.4
17.5°	4366.2	4402.8	4525.3	4625.3	4608.4	4594.4	4616.9	4640.8	4712.7	4912.7	4909.9
20°	4207.0	4323.9	4390.1	4494.4	4588.7	4593.0	4567.6	4553.5	4525.3	4557.7	4587.3
22.5°	4139.4	4157.7	4281.7	4354.9	4462.0	4500.0	4505.6	4507.0	4491.5	4474.6	4466.2
25°	4132.4	4074.6	4138.0	4229.6	4308.4	4349.3	4395.8	4411.3	4405.6	4405.6	4397.2
27.5°	3381.7	4056.3	4022.5	4083.1	4178.9	4207.0	4231.0	4278.9	4308.4	4329.6	4339.4
30°	3221.1	3342.2	3932.4	3940.8	4038.0	4035.2	4062.0	4101.4	4139.4	4188.7	4201.4
32.5°	2849.3	3146.5	3600.0	3798.6	3900.0	3909.9	3923.9	3935.2	3970.4	4025.3	4073.2
35°	2283.1	2866.2	3084.5	3731.0	3749.3	3769.0	3777.5	3804.2	3815.5	3838.0	3880.3
37.5°	2066.2	2369.0	2959.2	3226.8	3576.1	3593.0	3638.0	3649.3	3667.6	3685.9	3718.3
40°	1940.8	2023.9	2463.4	2881.7	3436.6	3447.9	3463.4	3491.5	3493.0	3514.1	3543.7
42.5°	1840.8	1894.4	2022.5	2752.1	3338.0	3336.6	3300.0	3318.3	3326.8	3349.3	3390.1
45°	1470.4	1777.5	1859.2	2247.9	2657.7	2849.3	3216.9	3156.3	3154.9	3163.4	3207.0
47.5°	74.6	1671.8	1729.6	1854.9	2509.9	2516.9	2564.8	2967.6	3029.6	3009.9	3014.1
50°	50.7	115.5	1611.3	1669.0	2163.4	2338.0	2373.2	2391.5	2623.9	2883.1	2840.8
52.5°	39.4	66.2	987.3	1549.3	1757.7	1885.9	2112.7	2242.3	2256.3	2360.6	2714.1
55°	35.2	50.7	107.0	1429.6	1494.4	1522.5	1654.9	1881.7	2064.8	2119.7	2123.9
57.5°	31.0	46.5	73.2	646.5	1359.2	1364.8	1387.3	1466.2	1631.0	1781.7	1952.1
60°	28.2	40.8	57.7	111.3	1235.2	1249.3	1253.5	1274.6	1294.4	1397.2	1593.0
62.5°	16.9	32.4	50.7	80.3	977.5	1122.5	1121.1	1135.2	1153.5	1164.8	1204.2
65°	14.1	25.4	43.7	67.6	119.7	149.3	907.0	1008.4	1019.7	1035.2	1042.3
67.5°	12.7	22.5	32.4	53.5	90.1	102.8	118.3	146.5	800.0	901.4	915.5
70°	11.3	15.5	26.8	45.1	73.2	78.9	88.7	101.4	119.7	147.9	723.9
72.5°	7.0	11.3	18.3	32.4	56.3	63.4	69.0	77.5	85.9	102.8	118.3
75°	2.8	8.5	15.5	23.9	43.7	47.9	52.1	57.7	64.8	76.1	84.5
77.5°	2.8	7.0	12.7	16.9	28.2	32.4	38.0	42.3	47.9	53.5	62.0
80°	9.9	5.6	8.5	12.7	19.7	21.1	23.9	26.8	31.0	35.2	40.8
82.5°	7.0	8.5	9.9	8.5	9.9	12.7	14.1	16.9	18.3	21.1	22.5
85°	5.6	5.6	7.0	7.0	7.0	7.0	7.0	7.0	8.5	9.9	12.7
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.6	5.6
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0
2.5°	4677.5	4674.6	4666.2	4666.2	4664.8	4670.4	4674.6	4678.9	4677.5	4685.9	4677.5
5°	4712.7	4705.6	4693.0	4681.7	4677.5	4680.3	4676.1	4680.3	4674.6	4681.7	4669.0
7.5°	4809.9	4785.9	4736.6	4716.9	4691.5	4690.1	4677.5	4674.6	4666.2	4666.2	4650.7
10°	4981.7	4866.2	4852.1	4793.0	4771.8	4669.0	4691.5	4653.5	4649.3	4631.0	4623.9
12.5°	5122.5	5032.4	5005.6	4953.5	4894.4	4685.9	4732.4	4650.7	4646.5	4609.9	4571.8
15°	5125.3	5177.5	5104.2	4960.6	4947.9	4804.2	4709.9	4681.7	4645.1	4535.2	4553.5
17.5°	4960.6	5080.3	5115.5	5084.5	4994.4	4897.2	4764.8	4708.4	4598.6	4549.3	4515.5
20°	4693.0	4814.1	4964.8	4974.6	5031.0	4962.0	4788.7	4697.2	4564.8	4478.9	4450.7
22.5°	4480.3	4569.0	4742.2	4822.5	4891.5	4915.5	4805.6	4670.4	4505.6	4422.5	4405.6
25°	4367.6	4387.3	4439.4	4533.8	4685.9	4795.8	4811.3	4667.6	4581.7	4400.0	4304.2
27.5°	4326.8	4309.9	4288.7	4336.6	4450.7	4584.5	4673.2	4697.2	4483.1	4309.9	4214.1
30°	4222.5	4232.4	4200.0	4183.1	4257.7	4395.8	4553.5	4593.0	4428.2	4249.3	4139.4
32.5°	4094.4	4111.3	4116.9	4087.3	4071.8	4167.6	4338.0	4432.4	4423.9	4163.4	4040.8
35°	3933.8	3981.7	3994.4	3995.8	3970.4	3954.9	4053.5	4249.3	4323.9	4123.9	3946.5
37.5°	3764.8	3778.9	3847.9	3866.2	3866.2	3819.7	3893.0	4049.3	4153.5	4035.2	3831.0
40°	3553.5	3598.6	3663.4	3695.8	3728.2	3732.4	3691.5	3801.4	3973.2	3943.7	3722.5
42.5°	3400.0	3429.6	3469.0	3512.7	3578.9	3595.8	3553.5	3573.2	3752.1	3829.6	3581.7
45°	3221.1	3260.6	3271.8	3319.7	3388.7	3438.0	3436.6	3395.8	3539.4	3635.2	3478.9
47.5°	3038.0	3076.1	3095.8	3119.7	3170.4	3233.8	3269.0	3250.7	3278.9	3466.2	3342.2
50°	2849.3	2870.4	2909.9	2936.6	2970.4	3007.0	3091.5	3108.4	3069.0	3218.3	3191.5
52.5°	2670.4	2677.5	2704.2	2731.0	2776.1	2802.8	2870.4	2921.1	2918.3	2962.0	3023.9
55°	2531.0	2500.0	2505.6	2526.8	2556.3	2597.2	2635.2	2714.1	2740.8	2749.3	2847.9
57.5°	1977.5	2295.8	2323.9	2322.5	2357.7	2376.1	2411.3	2463.4	2559.2	2538.0	2647.9
60°	1797.2	1832.4	2098.6	2129.6	2142.3	2159.2	2201.4	2249.3	2319.7	2364.8	2412.7
62.5°	1370.4	1584.5	1664.8	1900.0	1936.6	1946.5	1974.6	1997.2	2070.4	2173.2	2153.5
65°	1060.6	1152.1	1397.2	1493.0	1693.0	1718.3	1757.7	1781.7	1802.8	1921.1	1926.8
67.5°	916.9	931.0	997.2	1181.7	1308.4	1504.2	1528.2	1549.3	1581.7	1666.2	1718.3
70°	783.1	800.0	818.3	833.8	998.6	1128.2	1309.9	1316.9	1338.0	1394.4	1512.7
72.5°	147.9	669.0	680.3	690.1	708.4	794.4	967.6	1108.4	1116.9	1143.7	1252.1
75°	100.0	116.9	160.6	552.1	570.4	576.1	605.6	781.7	911.3	916.9	964.8
77.5°	71.8	80.3	97.2	115.5	294.4	442.3	449.3	481.7	615.5	712.7	721.1
80°	49.3	54.9	64.8	73.2	90.1	118.3	326.8	336.6	353.5	487.3	512.7
82.5°	28.2	32.4	38.0	46.5	53.5	67.6	87.3	112.7	229.6	245.1	325.4
85°	14.1	15.5	18.3	22.5	26.8	32.4	43.7	53.5	73.2	132.4	136.6
87.5°	7.0	7.0	7.0	7.0	11.3	12.7	15.5	19.7	25.4	38.0	49.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0
2.5°	4678.9	4698.6	4715.5	4719.7	4719.7	4722.5	4726.8	4729.6	4732.4	4735.2	4732.4
5°	4670.4	4691.5	4705.6	4709.9	4709.9	4718.3	4725.3	4733.8	4738.0	4738.0	4735.2
7.5°	4649.3	4664.8	4683.1	4694.4	4695.8	4709.9	4722.5	4721.1	4726.8	4729.6	4736.6
10°	4621.1	4621.1	4652.1	4660.6	4667.6	4683.1	4687.3	4695.8	4715.5	4718.3	4736.6
12.5°	4607.0	4593.0	4629.6	4633.8	4657.7	4638.0	4663.4	4671.8	4652.1	4678.9	4643.7
15°	4543.7	4560.6	4554.9	4567.6	4609.9	4587.3	4656.3	4633.8	4684.5	4623.9	4731.0
17.5°	4491.5	4488.7	4511.3	4522.5	4531.0	4578.9	4597.2	4622.5	4642.2	4625.3	4667.6
20°	4453.5	4431.0	4447.9	4460.6	4490.1	4526.8	4538.0	4500.0	4566.2	4678.9	4705.6
22.5°	4381.7	4366.2	4385.9	4385.9	4431.0	4425.3	4467.6	4443.7	4505.6	4636.6	4773.2
25°	4284.5	4285.9	4307.0	4332.4	4340.8	4404.2	4426.8	4457.7	4535.2	4691.5	4774.6
27.5°	4185.9	4177.5	4190.1	4242.2	4285.9	4332.4	4339.4	4445.1	4550.7	4657.7	4731.0
30°	4087.3	4078.9	4087.3	4125.3	4177.5	4208.4	4285.9	4426.8	4525.3	4598.6	4667.6
32.5°	3981.7	3973.2	3993.0	4021.1	4112.7	4116.9	4270.4	4402.8	4480.3	4533.8	4521.1
35°	3869.0	3857.7	3876.1	3919.7	4004.2	4035.2	4195.8	4294.4	4381.7	4407.0	4347.9
37.5°	3733.8	3714.1	3736.6	3797.2	3885.9	3976.1	4109.9	4223.9	4270.4	4202.8	4132.4
40°	3593.0	3578.9	3618.3	3649.3	3753.5	3878.9	4032.4	4112.7	4083.1	4005.6	3928.2
42.5°	3467.6	3438.0	3473.2	3532.4	3650.7	3793.0	3916.9	3962.0	3891.5	3777.5	3687.3
45°	3314.1	3278.9	3321.1	3400.0	3526.8	3688.7	3785.9	3770.4	3650.7	3552.1	3428.2
47.5°	3153.5	3111.3	3153.5	3247.9	3390.1	3562.0	3632.4	3562.0	3411.3	3287.3	3187.3
50°	2995.8	2946.5	2987.3	3129.6	3269.0	3401.4	3400.0	3263.4	3173.2	3038.0	2950.7
52.5°	2839.4	2769.0	2809.9	2964.8	3104.2	3254.9	3143.7	3016.9	2908.4	2790.1	2762.0
55°	2646.5	2570.4	2625.3	2850.7	2957.7	3046.5	2869.0	2757.7	2650.7	2591.5	2556.3
57.5°	2463.4	2380.3	2428.2	2694.4	2773.2	2795.8	2632.4	2474.6	2411.3	2391.5	2340.8
60°	2274.6	2180.3	2225.3	2532.4	2587.3	2495.8	2335.2	2212.7	2200.0	2160.6	2121.1
62.5°	2094.4	1990.1	2018.3	2331.0	2356.3	2190.1	2042.3	2009.9	1978.9	1939.4	1918.3
65°	1887.3	1778.9	1818.3	2116.9	2093.0	1878.9	1795.8	1788.7	1747.9	1715.5	1746.5
67.5°	1697.2	1569.0	1623.9	1883.1	1774.6	1600.0	1566.2	1549.3	1516.9	1535.2	1209.9
70°	1488.7	1349.3	1423.9	1631.0	1470.4	1354.9	1342.3	1316.9	1318.3	1047.9	883.1
72.5°	1256.3	1135.2	1243.7	1354.9	1163.4	1129.6	1111.3	1108.4	894.4	726.8	685.9
75°	1052.1	929.6	1046.5	1088.7	926.8	904.2	902.8	746.5	587.3	560.6	547.9
77.5°	821.1	726.8	838.0	774.6	711.3	685.9	615.5	462.0	442.3	423.9	159.2
80°	553.5	560.6	625.4	533.8	507.0	432.4	340.8	326.8	281.7	112.7	88.7
82.5°	336.6	422.5	398.6	333.8	326.8	235.2	215.5	109.9	81.7	64.8	56.3
85°	174.6	214.1	205.6	181.7	135.2	121.1	67.6	52.1	42.3	32.4	26.8
87.5°	59.2	78.9	76.1	60.6	46.5	36.6	23.9	19.7	14.1	11.3	9.9
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0
2.5°	4729.6	4729.6	4726.8	4729.6	4731.0	4728.2	4728.2	4731.0	4732.4	4733.8	4740.8
5°	4736.6	4739.4	4743.7	4752.1	4753.5	4770.4	4777.5	4781.7	4785.9	4787.3	4777.5
7.5°	4752.1	4762.0	4770.4	4769.0	4759.1	4732.4	4723.9	4716.9	4729.6	4762.0	4800.0
10°	4766.2	4721.1	4636.6	4752.1	4716.9	4749.3	4845.1	4866.2	4931.0	5022.5	5049.3
12.5°	4669.0	4793.0	4819.7	4690.1	4929.6	4840.8	4946.5	5039.4	5066.2	5159.1	5102.8
15°	4773.2	4833.8	4874.6	5004.2	4990.1	5066.2	5095.8	5077.5	5081.7	5105.6	5169.0
17.5°	4771.8	4893.0	4919.7	5007.0	5066.2	5067.6	5059.1	5050.7	5073.2	5091.5	5053.5
20°	4853.5	4893.0	4945.1	4980.3	4991.5	5005.6	5032.4	5011.3	4969.0	4928.2	4911.3
22.5°	4812.7	4901.4	4946.5	4952.1	4945.1	4901.4	4862.0	4802.8	4783.1	4762.0	4769.0
25°	4821.1	4862.0	4856.3	4833.8	4804.2	4722.5	4702.8	4677.5	4639.4	4547.9	4464.8
27.5°	4760.6	4739.4	4714.1	4659.1	4605.6	4562.0	4512.7	4431.0	4363.4	4264.8	4228.2
30°	4659.1	4574.6	4512.7	4480.3	4428.2	4354.9	4280.3	4180.3	4094.4	4074.6	4056.3
32.5°	4464.8	4381.7	4331.0	4252.1	4163.4	4076.1	3990.1	3950.7	3932.4	3935.2	3918.3
35°	4266.2	4193.0	4116.9	3998.6	3932.4	3845.1	3814.1	3805.6	3788.7	3770.4	3750.7
37.5°	4054.9	3969.0	3854.9	3784.5	3718.3	3683.1	3667.6	3654.9	3625.3	3593.0	3570.4
40°	3850.7	3695.8	3632.4	3563.4	3543.7	3528.2	3505.6	3474.6	3433.8	3428.2	3418.3
42.5°	3577.5	3466.2	3411.3	3397.2	3373.2	3346.5	3326.8	3293.0	3276.1	3287.3	3295.8
45°	3318.3	3262.0	3243.7	3226.8	3181.7	3143.7	3131.0	3119.7	3133.8	3195.8	3047.9
47.5°	3108.4	3085.9	3063.4	3035.2	2993.0	2964.8	2977.5	2988.7	3001.4	2546.5	2323.9
50°	2926.8	2895.8	2860.6	2829.6	2804.2	2801.4	2867.6	2669.0	2235.2	2223.9	1998.6
52.5°	2728.2	2681.7	2660.6	2642.3	2653.5	2695.8	2231.0	2070.4	1985.9	1725.4	1609.9
55°	2514.1	2473.2	2473.2	2490.1	2429.6	1969.0	1945.1	1681.7	1522.5	1477.5	1459.2
57.5°	2300.0	2295.8	2319.7	2121.1	1787.3	1714.1	1440.8	1383.1	1357.7	1352.1	1322.5
60°	2104.2	2143.7	1794.4	1650.7	1435.2	1294.4	1254.9	1247.9	1221.1	1211.3	1184.5
62.5°	1947.9	1615.5	1504.2	1228.2	1156.3	1138.0	1116.9	1107.0	1083.1	956.3	280.3
65°	1407.0	1329.6	1078.9	1032.4	1026.8	1000.0	991.5	891.5	209.9	140.8	119.7
67.5°	1062.0	942.3	909.9	901.4	874.6	821.1	243.7	139.4	119.7	104.2	91.5
70°	815.5	794.4	770.4	750.7	221.1	138.0	119.7	101.4	87.3	77.5	70.4
72.5°	667.6	653.5	380.3	145.1	118.3	100.0	88.7	77.5	67.6	62.0	56.3
75°	522.5	145.1	119.7	100.0	85.9	73.2	64.8	57.7	52.1	47.9	43.7
77.5°	118.3	95.8	81.7	69.0	62.0	54.9	49.3	42.3	38.0	33.8	28.2
80°	73.2	63.4	53.5	49.3	42.3	35.2	31.0	28.2	22.5	21.1	18.3
82.5°	47.9	38.0	33.8	28.2	22.5	21.1	18.3	14.1	12.7	11.3	9.9
85°	21.1	18.3	15.5	12.7	9.9	8.5	7.0	5.6	5.6	5.6	5.6
87.5°	7.0	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	2.8	2.8
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: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0
2.5°	4743.7	4769.0	4793.0	4785.9	4760.6	4721.1	4709.9	4694.4	4705.6	4729.6	4739.4
5°	4777.5	4763.4	4814.1	4888.7	5009.9	5021.1	5105.6	5125.3	5193.0	5235.2	5233.8
7.5°	4825.3	5025.3	5108.4	5198.6	5239.4	5229.6	5242.2	5232.4	5216.9	5209.9	5201.4
10°	5069.0	5221.1	5252.1	5252.1	5188.7	5102.8	5066.2	5002.8	4876.1	4878.9	4857.7
12.5°	5211.3	5264.8	5191.5	5129.6	4874.6	4776.1	4669.0	4618.3	4588.7	4543.7	4560.6
15°	5136.6	5060.6	5016.9	4816.9	4660.6	4483.1	4485.9	4454.9	4422.5	4425.3	4404.2
17.5°	5026.8	4966.2	4656.3	4518.3	4442.2	4373.2	4360.6	4319.7	4298.6	4291.5	4290.1
20°	4876.1	4657.7	4426.8	4393.0	4301.4	4222.5	4209.9	4222.5	4287.3	4171.8	3780.3
22.5°	4700.0	4385.9	4318.3	4222.5	4160.6	4129.6	4207.0	3854.9	3322.5	3387.3	3318.3
25°	4401.4	4264.8	4149.3	4076.1	4069.0	3878.9	3232.4	3164.8	2822.5	2639.4	2433.8
27.5°	4183.1	4123.9	4002.8	3990.1	3898.6	3171.8	2835.2	2463.4	2326.8	2305.6	2260.6
30°	4050.7	3966.2	3893.0	3573.2	3111.3	2553.5	2274.6	2222.5	2198.6	2173.2	2133.8
32.5°	3891.5	3811.3	3846.5	3004.2	2480.3	2198.6	2142.3	2104.2	2060.6	2043.7	1901.4
35°	3729.6	3693.0	3005.6	2525.3	2132.4	2064.8	2022.5	1983.1	1577.5	381.7	129.6
37.5°	3556.3	3547.9	2701.4	2095.8	1997.2	1933.8	1814.1	374.6	88.7	60.6	45.1
40°	3421.1	2702.8	2135.2	1964.8	1884.5	1784.5	250.7	62.0	39.4	23.9	15.5
42.5°	3331.0	2431.0	1911.3	1843.7	1669.0	184.5	63.4	26.8	15.5	12.7	9.9
45°	2567.6	1919.7	1785.9	1715.5	211.3	63.4	36.6	12.7	9.9	8.5	5.6
47.5°	2369.0	1743.7	1664.8	374.6	70.4	33.8	25.4	8.5	5.6	5.6	5.6
50°	1794.4	1611.3	1325.4	91.5	45.1	23.9	18.3	5.6	5.6	5.6	4.2
52.5°	1573.2	1487.3	142.3	60.6	35.2	18.3	11.3	4.2	4.2	4.2	4.2
55°	1438.0	943.7	84.5	46.5	29.6	16.9	7.0	4.2	4.2	4.2	2.8
57.5°	1315.5	126.8	62.0	39.4	26.8	15.5	4.2	4.2	4.2	4.2	2.8
60°	1115.5	91.5	50.7	35.2	25.4	14.1	4.2	4.2	4.2	4.2	4.2
62.5°	145.1	71.8	43.7	31.0	18.3	11.3	2.8	4.2	4.2	4.2	4.2
65°	105.6	56.3	39.4	21.1	11.3	4.2	2.8	4.2	4.2	4.2	4.2
67.5°	81.7	46.5	29.6	18.3	9.9	2.8	2.8	4.2	4.2	4.2	4.2
70°	64.8	39.4	23.9	15.5	8.5	2.8	2.8	4.2	4.2	4.2	4.2
72.5°	50.7	28.2	16.9	8.5	5.6	2.8	2.8	4.2	4.2	4.2	4.2
75°	38.0	22.5	12.7	7.0	2.8	2.8	2.8	4.2	4.2	4.2	4.2
77.5°	25.4	14.1	9.9	5.6	5.6	5.6	7.0	7.0	4.2	4.2	4.2
80°	16.9	9.9	7.0	7.0	7.0	5.6	7.0	7.0	4.2	7.0	4.2
82.5°	8.5	7.0	7.0	5.6	5.6	4.2	5.6	5.6	5.6	5.6	4.2
85°	5.6	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.6	5.6	4.2
87.5°	2.8	2.8	2.8	2.8	4.2	4.2	4.2	4.2	5.6	5.6	4.2
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0
2.5°	4726.8	4731.0	4719.7	4780.3	4749.3	4752.1	4764.8	4732.4	4739.4	4716.9	4701.4
5°	5239.4	5247.9	5256.3	5259.1	5264.8	5271.8	5263.4	5259.1	5250.7	5222.5	5193.0
7.5°	5159.1	5149.3	5145.1	5150.7	5160.6	5164.8	5157.7	5167.6	5204.2	5219.7	5229.6
10°	4736.6	4691.5	4722.5	4718.3	4683.1	4801.4	4769.0	4787.3	4800.0	4929.6	5008.4
12.5°	4535.2	4563.4	4509.9	4483.1	4518.3	4542.2	4566.2	4515.5	4585.9	4553.5	4657.7
15°	4366.2	4349.3	4343.7	4345.1	4338.0	4371.8	4380.3	4391.5	4401.4	4445.1	4462.0
17.5°	4290.1	4318.3	4329.6	4338.0	4323.9	4308.4	4293.0	4270.4	4277.5	4266.2	4298.6
20°	3516.9	3422.5	3416.9	3471.8	3411.3	3445.1	3526.8	4073.2	4054.9	4267.6	4195.8
22.5°	2935.2	2846.5	2770.4	2704.2	2798.6	2838.0	2990.1	3162.0	3440.8	3397.2	3700.0
25°	2397.2	2364.8	2345.1	2335.2	2342.3	2339.4	2373.2	2453.5	2580.3	2878.9	3264.8
27.5°	2242.3	2226.8	2219.7	2197.2	2214.1	2208.4	2235.2	2252.1	2290.1	2319.7	2445.1
30°	2119.7	2101.4	2088.7	2064.8	2081.7	2083.1	2091.5	2135.2	2150.7	2176.1	2215.5
32.5°	774.6	456.3	428.2	407.0	445.1	580.3	1018.3	1780.3	2031.0	2050.7	2095.8
35°	76.1	63.4	56.3	56.3	57.7	63.4	84.5	222.5	407.0	1573.2	1969.0
37.5°	29.6	25.4	21.1	19.7	21.1	23.9	32.4	42.3	57.7	119.7	533.8
40°	12.7	11.3	9.9	9.9	9.9	9.9	11.3	14.1	21.1	39.4	62.0
42.5°	8.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0	9.9	12.7	25.4
45°	5.6	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.6	7.0	11.3
47.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.6
50°	4.2	4.2	4.2	4.2	2.8	4.2	2.8	4.2	4.2	4.2	4.2
52.5°	4.2	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2
55°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2
57.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
60°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
62.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2	2.8
65°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2	2.8
67.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
70°	4.2	4.2	2.8	4.2	2.8	2.8	4.2	4.2	4.2	2.8	2.8
72.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	8.5	8.5	5.6
75°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	7.0	8.5	7.0
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	7.0	7.0	7.0
80°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.6	5.6	5.6
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.6	5.6	5.6
85°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0
2.5°	4674.6	4673.2	4702.8	4725.3	4716.9	4725.3	4735.2	4736.6	4739.4	4728.2	4723.9
5°	5136.6	5093.0	5008.4	4947.9	4877.5	4749.3	4685.9	4693.0	4694.4	4690.1	4695.8
7.5°	5225.3	5221.1	5191.5	5178.9	5131.0	5039.4	4893.0	4867.6	4805.6	4766.2	4733.8
10°	5002.8	5104.2	5131.0	5176.1	5204.2	5187.3	5063.4	5045.1	5005.6	4960.6	4970.4
12.5°	4762.0	4845.1	4849.3	5094.4	5149.3	5154.9	5107.0	5132.4	5138.0	5036.6	4977.5
15°	4466.2	4505.6	4588.7	4816.9	4983.1	5087.3	5118.3	5132.4	5063.4	5059.1	5035.2
17.5°	4336.6	4362.0	4400.0	4528.2	4780.3	4933.8	5064.8	5054.9	5081.7	5062.0	5001.4
20°	4173.2	4194.4	4262.0	4326.8	4450.7	4654.9	4900.0	4918.3	4953.5	4949.3	4966.2
22.5°	4170.4	4095.8	4107.0	4157.7	4287.3	4470.4	4731.0	4791.5	4814.1	4829.6	4847.9
25°	3308.4	3901.4	4009.9	4042.2	4126.8	4233.8	4540.8	4563.4	4605.6	4674.6	4725.3
27.5°	2866.2	3269.0	3702.8	3928.2	3981.7	4070.4	4253.5	4287.3	4431.0	4447.9	4526.8
30°	2262.0	2573.2	3221.1	3763.4	3852.1	3914.1	4043.7	4111.3	4173.2	4240.8	4323.9
32.5°	2128.2	2177.5	2536.6	3114.1	3804.2	3757.7	3853.5	3894.4	3962.0	4021.1	4081.7
35°	2005.6	2039.4	2115.5	2550.7	3098.6	3629.6	3694.4	3721.1	3759.2	3804.2	3847.9
37.5°	1877.5	1928.2	1980.3	2097.2	2866.2	3528.2	3526.8	3557.7	3580.3	3618.3	3654.9
40°	340.8	1770.4	1854.9	1931.0	2222.5	2814.1	3369.0	3383.1	3398.6	3422.5	3460.6
42.5°	54.9	295.8	1738.0	1811.3	1894.4	2519.7	3297.2	3239.4	3229.6	3246.5	3280.3
45°	28.2	71.8	349.3	1691.5	1766.2	2009.9	2695.8	3139.4	3129.6	3097.2	3104.2
47.5°	21.1	45.1	85.9	584.5	1653.5	1725.4	2487.3	2460.6	2647.9	3007.0	2952.1
50°	18.3	31.0	50.7	119.7	1460.6	1588.7	1915.5	2238.0	2336.6	2349.3	2780.3
52.5°	16.9	21.1	36.6	77.5	307.0	1469.0	1557.7	1670.4	1836.6	2193.0	2184.5
55°	15.5	19.7	31.0	52.1	107.0	1323.9	1415.5	1436.6	1471.8	1642.3	1867.6
57.5°	8.5	18.3	29.6	45.1	80.3	242.3	1284.5	1301.4	1329.6	1336.6	1416.9
60°	4.2	16.9	26.8	39.4	59.2	112.7	1154.9	1174.6	1191.5	1194.4	1219.7
62.5°	2.8	15.5	22.5	36.6	49.3	80.3	273.2	557.7	1060.6	1060.6	1090.1
65°	2.8	11.3	14.1	23.9	45.1	66.2	115.5	133.8	260.6	640.8	956.3
67.5°	2.8	4.2	12.7	19.7	33.8	50.7	84.5	98.6	118.3	135.2	250.7
70°	2.8	2.8	11.3	12.7	21.1	38.0	60.6	69.0	80.3	91.5	105.6
72.5°	2.8	2.8	9.9	9.9	14.1	25.4	46.5	50.7	57.7	64.8	74.6
75°	7.0	5.6	8.5	8.5	9.9	19.7	35.2	39.4	42.3	47.9	54.9
77.5°	7.0	7.0	7.0	7.0	7.0	12.7	22.5	25.4	29.6	32.4	38.0
80°	5.6	5.6	5.6	7.0	7.0	8.5	14.1	15.5	16.9	21.1	22.5
82.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	8.5	9.9	12.7
85°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.6	5.6	5.6	5.6
87.5°	4.2	4.2	4.2	2.8	2.8	4.2	4.2	4.2	4.2	4.2	4.2
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0	4693.0
2.5°	4722.5	4714.1	4707.0	4711.3	4698.6	4693.0	4697.2	4698.6	4701.4	4708.4	4709.9
5°	4709.9	4707.0	4719.7	4726.8	4723.9	4726.8	4726.8	4721.1	4712.7	4718.3	4705.6
7.5°	4701.4	4683.1	4669.0	4671.8	4657.7	4674.6	4690.1	4712.7	4719.7	4719.7	4705.6
10°	4846.5	4826.8	4747.9	4694.4	4659.1	4628.2	4701.4	4626.8	4662.0	4528.2	4681.7
12.5°	4966.2	4993.0	4957.7	4811.3	4785.9	4693.0	4746.5	4654.9	4628.2	4474.6	4523.9
15°	5014.1	4963.4	4952.1	4911.3	4856.3	4829.6	4685.9	4670.4	4626.8	4643.7	4578.9
17.5°	4971.8	4997.2	4963.4	4936.6	4880.3	4816.9	4731.0	4654.9	4594.4	4459.2	4573.2
20°	4931.0	4964.8	4863.4	4880.3	4885.9	4812.7	4767.6	4704.2	4628.2	4501.4	4402.8
22.5°	4863.4	4839.4	4847.9	4822.5	4801.4	4811.3	4749.3	4705.6	4577.5	4519.7	4385.9
25°	4753.5	4745.1	4767.6	4764.8	4714.1	4697.2	4666.2	4619.7	4569.0	4476.1	4366.2
27.5°	4574.6	4618.3	4657.7	4676.1	4649.3	4604.2	4587.3	4560.6	4525.3	4431.0	4349.3
30°	4385.9	4435.2	4480.3	4519.7	4543.7	4523.9	4508.4	4493.0	4439.4	4377.5	4285.9
32.5°	4170.4	4235.2	4297.2	4345.1	4397.2	4412.7	4401.4	4388.7	4343.7	4287.3	4214.1
35°	3921.1	4009.9	4100.0	4185.9	4208.4	4245.1	4281.7	4260.6	4236.6	4180.3	4112.7
37.5°	3709.9	3773.2	3838.0	3946.5	4025.3	4071.8	4136.6	4145.1	4104.2	4077.5	3988.7
40°	3491.5	3549.3	3643.7	3707.0	3815.5	3869.0	3938.0	3969.0	3959.2	3943.7	3866.2
42.5°	3319.7	3347.9	3409.9	3466.2	3573.2	3683.1	3743.7	3777.5	3812.7	3800.0	3760.6
45°	3136.6	3162.0	3183.1	3232.4	3336.6	3433.8	3508.4	3559.2	3622.5	3652.1	3604.2
47.5°	2954.9	2962.0	2987.3	3028.2	3090.1	3164.8	3290.1	3366.2	3425.3	3483.1	3452.1
50°	2815.5	2790.1	2794.4	2819.7	2870.4	2943.7	3033.8	3140.8	3208.4	3278.9	3285.9
52.5°	2460.6	2666.2	2616.9	2631.0	2657.7	2693.0	2787.3	2893.0	2976.1	3036.6	3097.2
55°	2064.8	2105.6	2501.4	2445.1	2462.0	2493.0	2536.6	2642.3	2722.5	2807.0	2891.5
57.5°	1601.4	1905.6	1921.1	2287.3	2278.9	2281.7	2318.3	2378.9	2459.2	2564.8	2636.6
60°	1245.1	1373.2	1622.5	1749.3	2070.4	2081.7	2102.8	2138.0	2207.0	2307.0	2421.1
62.5°	1098.6	1115.5	1204.2	1394.4	1602.8	1854.9	1900.0	1905.6	1936.6	2036.6	2169.0
65°	964.8	976.1	1002.8	1022.5	1197.2	1440.8	1657.7	1693.0	1712.7	1771.8	1884.5
67.5°	664.8	840.8	864.8	878.9	895.8	1008.4	1277.5	1456.3	1478.9	1531.0	1629.6
70°	128.2	266.2	728.2	743.7	752.1	777.5	821.1	1105.6	1254.9	1304.2	1349.3
72.5°	87.3	102.8	123.9	293.0	619.7	633.8	643.7	680.3	932.4	1076.1	1100.0
75°	63.4	70.4	83.1	102.8	126.8	412.7	511.3	529.6	547.9	756.3	877.5
77.5°	45.1	50.7	56.3	66.2	77.5	100.0	143.7	395.8	414.1	423.9	598.6
80°	25.4	31.0	38.0	43.7	49.3	56.3	73.2	91.5	204.2	298.6	314.1
82.5°	14.1	16.9	19.7	23.9	26.8	33.8	40.8	49.3	64.8	95.8	202.8
85°	7.0	7.0	7.0	9.9	11.3	15.5	18.3	21.1	29.6	40.8	56.3
87.5°	4.2	4.2	5.6	5.6	5.6	7.0	7.0	7.0	8.5	12.7	18.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-78SL-RM-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	356°	357°	358°	359°	360°
0°	4693.0	4693.0	4693.0	4693.0	4693.0
2.5°	4711.3	4707.0	4707.0	4723.9	4719.7
5°	4702.8	4698.6	4697.2	4715.5	4707.0
7.5°	4695.8	4680.3	4676.1	4693.0	4685.9
10°	4667.6	4656.3	4663.4	4657.7	4654.9
12.5°	4619.7	4612.7	4583.1	4585.9	4609.9
15°	4533.8	4562.0	4511.3	4556.3	4566.2
17.5°	4376.1	4439.4	4488.7	4515.5	4519.7
20°	4446.5	4467.6	4442.2	4443.7	4460.6
22.5°	4354.9	4364.8	4371.8	4363.4	4400.0
25°	4208.4	4170.4	4252.1	4269.0	4328.2
27.5°	4163.4	4132.4	4170.4	4167.6	4216.9
30°	4126.8	4026.8	4043.7	4070.4	4131.0
32.5°	4074.6	3916.9	3900.0	3959.2	4026.8
35°	3983.1	3833.8	3794.4	3832.4	3933.8
37.5°	3905.6	3718.3	3639.4	3690.1	3822.5
40°	3790.1	3628.2	3505.6	3550.7	3707.0
42.5°	3652.1	3550.7	3362.0	3393.0	3571.8
45°	3512.7	3422.5	3222.5	3238.0	3450.7
47.5°	3370.4	3287.3	3077.5	3080.3	3295.8
50°	3231.0	3121.1	2947.9	2898.6	3131.0
52.5°	3049.3	2947.9	2816.9	2736.6	2974.6
55°	2877.5	2763.4	2667.6	2543.7	2797.2
57.5°	2709.9	2583.1	2518.3	2359.2	2595.8
60°	2480.3	2419.7	2323.9	2171.8	2414.1
62.5°	2245.1	2225.3	2128.2	1970.4	2190.1
65°	1970.4	2016.9	1916.9	1781.7	1957.7
67.5°	1711.3	1794.4	1684.5	1601.4	1733.8
70°	1435.2	1531.0	1469.0	1439.4	1495.8
72.5°	1163.4	1256.3	1262.0	1240.8	1259.2
75°	898.6	1001.4	1057.7	1025.4	1029.6
77.5°	681.7	731.0	793.0	818.3	812.7
80°	421.1	507.0	557.7	609.9	591.5
82.5°	212.7	284.5	346.5	402.8	376.1
85°	88.7	114.1	159.2	209.9	201.4
87.5°	26.8	45.1	47.9	67.6	63.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)