

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-LD5-109SL-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-LD5-109SL-RM-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

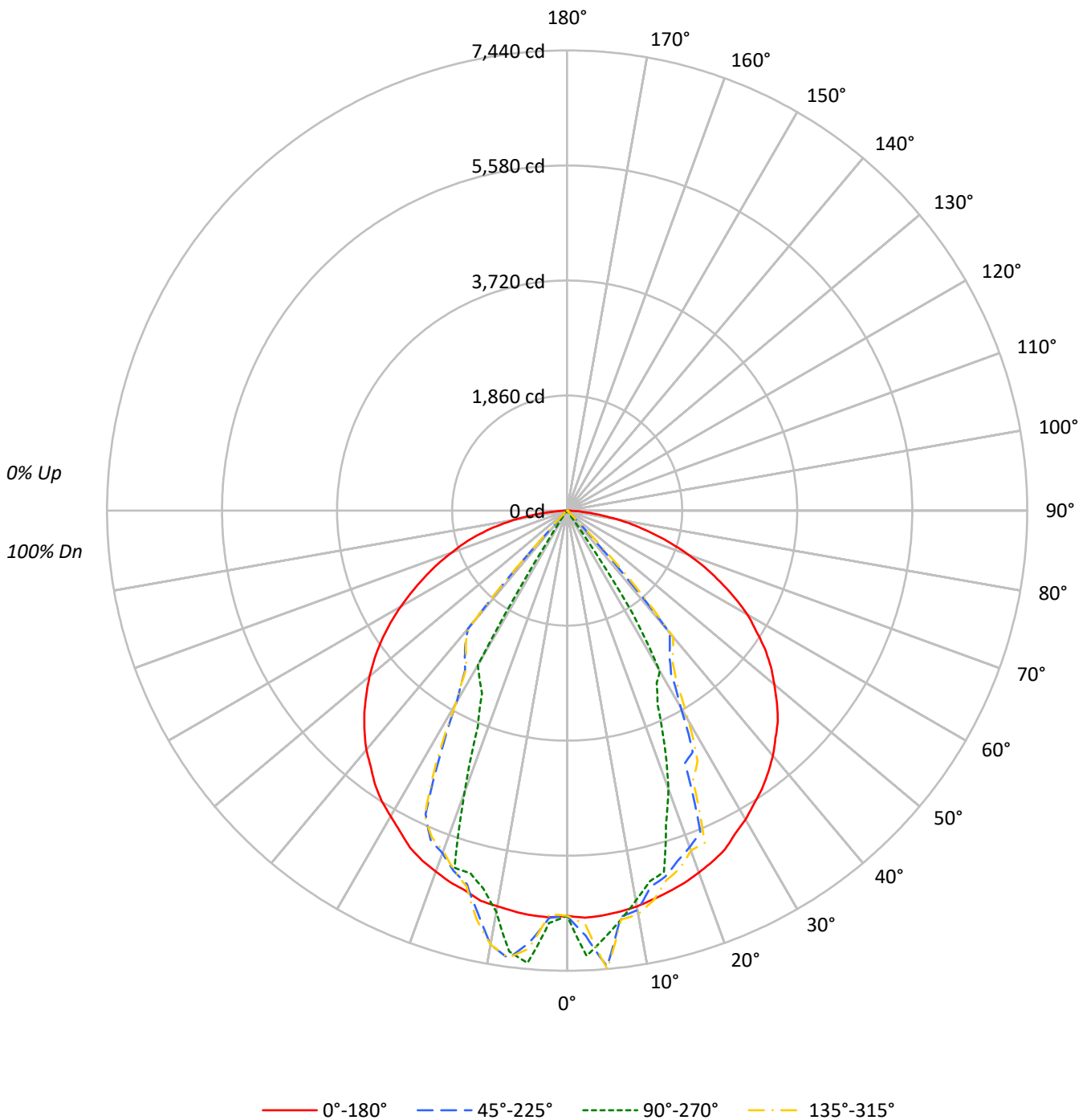
Lumens per Lamp: N/A
Luminaire Lumens: 9316.0 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 82
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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CATALOG NUMBER: 8SNLED-LD5-109SL-RM-UNV-L940-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°	26472	26472	26472	26472
5°	26617	27227	26609	28833
10°	26589	24637	26574	25348
15°	26554	22996	26489	23055
20°	26625	18112	26549	18336
25°	26743	13108	26613	12369
30°	26667	11498	26385	11053
35°	26796	253	26403	307
40°	26944	55	26299	55
45°	27104	33	26086	25
50°	26974	26	25736	26
55°	26909	18	25256	18
60°	26517	19	24445	19
65°	25284	31	23483	21
70°	23654	34	22518	34
75°	21203	38	21551	38
80°	17651	44	18660	44
85°	11061	52	11293	52



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-109SL-RM-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.3	7.1
10°-20°	1792.9	19.2
20°-30°	2281.5	24.5
30°-40°	1927.2	20.7
40°-50°	1260.0	13.5
50°-60°	793.9	8.5
60°-70°	422.6	4.5
70°-80°	154.1	1.7
80°-90°	26.5	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°	4731.7	50.8
0°-40°	6659.0	71.5
0°-60°	8712.8	93.5
0°-90°	9316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9316.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6552	6552	6552	6552	6552	
5°	6571	6933	6569	7342	6571	625
15°	6375	6050	6359	6066	6375	1802
25°	6042	3455	6013	3260	6042	2779
35°	5492	65	5411	79	5492	3436
45°	4817	8	4636	6	4817	3705
55°	3905	4	3665	4	3905	3479
65°	2733	6	2538	4	2733	2707
75°	1437	6	1461	6	1437	1526
85°	281	6	287	6	281	356
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-109SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7
2.5°	6589.1	6593.0	6595.0	6598.9	6604.8	6606.8	6610.7	6606.8	6606.8	6606.8	6606.8
5°	6571.4	6579.2	6585.1	6593.0	6606.8	6608.7	6624.5	6626.4	6634.3	6650.0	6661.8
7.5°	6541.9	6549.7	6561.5	6581.2	6600.9	6622.5	6650.0	6679.5	6720.8	6760.1	6809.3
10°	6498.6	6508.4	6522.2	6539.9	6636.3	6650.0	6711.0	6795.5	6819.1	6943.0	7035.4
12.5°	6435.7	6469.1	6504.5	6520.2	6612.7	6758.2	6962.7	6921.4	6876.1	7281.2	7275.3
15°	6374.7	6420.0	6402.3	6530.1	6614.6	6868.3	6781.8	6966.6	7304.8	7222.2	7226.1
17.5°	6309.9	6319.7	6418.0	6524.2	6675.6	6805.4	6911.5	7165.2	7232.0	7237.9	7165.2
20°	6227.3	6274.5	6418.0	6514.3	6770.0	6830.9	7061.0	7190.8	7163.2	7096.4	6972.5
22.5°	6142.7	6286.3	6431.8	6567.4	6746.4	6909.6	7023.6	7084.6	6941.0	6677.6	6536.0
25°	6042.4	6127.0	6317.7	6516.3	6740.5	6834.9	6901.7	6803.4	6616.6	6380.6	6142.7
27.5°	5887.1	6022.8	6266.6	6490.8	6693.3	6807.3	6699.2	6463.2	6162.4	6007.0	5898.9
30°	5767.2	5944.1	6144.7	6361.0	6571.4	6638.2	6362.9	6093.6	5887.1	5731.8	5708.2
32.5°	5621.6	5873.3	6064.1	6270.5	6447.5	6359.0	6091.6	5743.6	5572.5	5513.5	5537.1
35°	5491.9	5682.6	5932.3	6134.9	6262.7	6064.1	5641.3	5425.0	5342.4	5375.9	5332.6
37.5°	5336.5	5588.2	5818.3	5993.3	5950.0	5651.1	5293.3	5155.6	5165.5	5137.9	5055.4
40°	5175.3	5415.2	5655.1	5820.2	5668.8	5212.7	4974.7	4945.2	4951.1	4862.7	4744.7
42.5°	4986.5	5204.8	5444.7	5594.1	5267.7	4911.8	4750.6	4754.5	4703.4	4579.5	4516.6
45°	4817.4	5018.0	5267.7	5281.5	4880.4	4583.4	4536.3	4485.1	4371.1	4329.8	4282.6
47.5°	4601.1	4823.3	5029.8	4955.1	4500.9	4316.0	4280.6	4168.6	4111.5	4080.1	4040.7
50°	4371.1	4595.2	4784.0	4571.6	4143.0	4099.7	3983.7	3895.2	3855.9	3822.5	3787.1
52.5°	4152.8	4337.7	4530.4	4164.6	3867.7	3826.4	3694.7	3643.6	3604.2	3566.9	3559.0
55°	3905.1	4068.3	4200.0	3777.3	3604.2	3507.9	3413.5	3378.1	3340.7	3323.0	3352.5
57.5°	3623.9	3808.7	3789.1	3395.8	3319.1	3179.5	3144.1	3120.5	3093.0	3104.8	2859.0
60°	3370.2	3511.8	3415.5	3116.6	2986.8	2892.4	2861.0	2845.2	2861.0	2621.1	2304.5
62.5°	3057.6	3216.9	3022.2	2790.2	2652.5	2607.3	2579.8	2601.4	2371.4	2107.9	2031.2
65°	2733.2	2906.2	2619.1	2440.2	2353.7	2314.3	2312.4	2129.5	1903.4	1801.1	1801.1
67.5°	2420.5	2599.4	2229.8	2080.3	2046.9	2050.8	1936.8	1659.6	1596.6	1527.8	1329.2
70°	2088.2	2245.5	1842.4	1752.0	1732.3	1718.5	1441.3	1366.6	1291.9	1109.0	1093.3
72.5°	1757.9	1834.6	1480.6	1459.0	1455.1	1209.3	1154.2	1026.4	939.9	918.3	908.4
75°	1437.4	1413.8	1169.9	1189.6	1002.8	916.3	827.8	753.1	741.3	733.4	182.9
77.5°	1134.6	1016.6	922.2	802.2	717.7	609.6	591.9	580.1	381.5	137.6	112.1
80°	825.8	658.7	613.5	521.1	444.4	426.7	436.5	133.7	106.2	88.5	76.7
82.5°	525.0	420.8	344.1	300.8	293.0	127.8	94.4	76.7	66.9	57.0	47.2
85°	281.2	186.8	173.0	145.5	86.5	59.0	49.2	37.4	31.5	25.6	23.6
87.5°	88.5	74.7	61.0	49.2	29.5	19.7	15.7	13.8	11.8	9.8	9.8
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-LD5-109SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7
2.5°	6602.8	6606.8	6604.8	6610.7	6610.7	6618.6	6624.5	6630.4	6642.2	6648.1	6693.3
5°	6687.4	6697.2	6726.7	6754.2	6787.7	6797.5	6854.5	6868.3	6935.1	6943.0	7163.2
7.5°	6876.1	6913.5	6984.3	7055.1	7125.9	7171.1	7249.7	7298.9	7352.0	7399.2	7574.2
10°	7104.2	7167.2	7236.0	7306.8	7348.1	7434.6	7481.8	7489.6	7475.9	7399.2	7116.0
12.5°	7328.4	7391.3	7361.8	7375.6	7424.7	7271.4	7293.0	7182.9	7259.6	6880.1	6598.9
15°	7296.9	7293.0	7220.2	6984.3	7023.6	6730.6	6612.7	6522.2	6595.0	6555.6	6512.4
17.5°	7202.6	7023.6	6897.8	6614.6	6494.7	6412.1	6414.1	6416.0	6380.6	6418.0	6307.9
20°	6803.4	6602.8	6416.0	6315.8	6280.4	6221.4	6250.9	6221.4	6223.3	6235.1	6066.0
22.5°	6272.5	6211.5	6103.4	6134.9	6123.1	6176.1	6136.8	6075.9	6095.5	6007.0	5879.2
25°	6058.2	5987.4	5983.4	5995.2	5977.5	5954.0	5918.6	5826.1	5820.2	5792.7	5733.7
27.5°	5841.9	5845.8	5857.6	5822.2	5759.3	5712.1	5659.0	5613.8	5631.5	5600.0	5519.4
30°	5692.4	5690.5	5619.7	5588.2	5472.2	5474.2	5460.4	5432.9	5415.2	5417.2	5366.0
32.5°	5480.1	5419.1	5338.5	5299.2	5289.3	5254.0	5226.4	5232.3	5246.1	5196.9	5250.0
35°	5261.8	5136.0	5124.2	5090.7	5059.3	5035.7	5045.5	5006.2	5004.2	4998.3	4565.7
37.5°	4968.8	4907.9	4902.0	4866.6	4845.0	4839.1	4801.7	4807.6	4825.3	4856.8	3893.3
40°	4727.0	4671.9	4658.2	4656.2	4609.0	4605.1	4614.9	4652.3	4677.8	4481.2	3710.4
42.5°	4467.4	4471.4	4428.1	4400.6	4406.5	4424.2	4471.4	4341.6	3761.5	3584.6	3391.9
45°	4245.2	4225.6	4202.0	4194.1	4245.2	4209.8	3690.7	3405.6	3336.8	3328.9	2788.2
47.5°	4013.2	4007.3	3997.5	4003.4	3712.4	3309.3	3191.3	3153.9	3165.7	3157.9	2395.0
50°	3779.2	3787.1	3787.1	3307.3	3036.0	2969.1	2978.9	3012.4	2803.9	2617.1	2231.7
52.5°	3576.7	3515.7	3012.4	2839.3	2778.4	2807.9	2737.1	2475.6	2286.8	2176.7	2064.6
55°	3201.1	2752.8	2640.7	2613.2	2634.8	2373.3	2212.1	2043.0	1993.8	1982.0	1917.1
57.5°	2518.8	2428.4	2438.2	2328.1	2078.4	1930.9	1866.0	1842.4	1820.8	1805.1	157.3
60°	2227.8	2253.4	2062.6	1826.7	1726.4	1706.7	1691.0	1669.4	1665.5	1637.9	100.3
62.5°	2039.1	1793.3	1628.1	1569.1	1545.5	1539.6	1510.1	1500.3	1274.2	175.0	74.7
65°	1537.6	1437.4	1405.9	1392.1	1366.6	1366.6	1134.6	178.9	145.5	125.8	66.9
67.5°	1254.5	1246.6	1230.9	1213.2	825.8	173.0	151.4	131.7	114.0	100.3	59.0
70°	1061.8	1057.9	963.5	177.0	147.5	129.8	114.0	102.2	94.4	84.6	53.1
72.5°	871.1	177.0	149.4	129.8	112.1	102.2	92.4	82.6	74.7	68.8	43.3
75°	135.7	119.9	106.2	96.3	88.5	78.7	70.8	64.9	62.9	55.1	29.5
77.5°	98.3	84.6	76.7	68.8	61.0	55.1	47.2	41.3	37.4	31.5	21.6
80°	68.8	61.0	55.1	45.2	39.3	33.4	29.5	25.6	23.6	19.7	9.8
82.5°	39.3	33.4	29.5	23.6	21.6	17.7	15.7	13.8	13.8	9.8	9.8
85°	17.7	17.7	13.8	11.8	9.8	9.8	9.8	7.9	7.9	5.9	5.9
87.5°	7.9	7.9	7.9	7.9	7.9	5.9	5.9	5.9	5.9	5.9	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-LD5-109SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7
2.5°	6756.2	6781.8	6830.9	6882.0	6825.0	7029.5	7013.8	7082.6	7120.0	7137.7	7179.0
5°	7357.9	7471.9	7509.3	7397.2	7332.3	7265.5	7114.1	7000.0	7013.8	6976.4	6840.8
7.5°	7346.1	7102.3	6773.9	6624.5	6612.7	6595.0	6642.2	6669.7	6673.6	6671.7	6667.7
10°	6724.7	6598.9	6577.3	6557.6	6565.5	6492.7	6459.3	6364.9	6416.0	6388.5	6398.3
12.5°	6536.0	6506.5	6390.5	6229.2	6325.6	6252.8	6211.5	6239.1	6207.6	6178.1	6168.3
15°	6423.9	6233.2	6168.3	6129.0	6101.4	6085.7	6099.5	6068.0	6058.2	6052.3	6066.0
17.5°	6191.9	6115.2	6044.4	5940.2	5942.2	5936.3	5975.6	6034.6	6038.5	5735.7	5462.4
20°	6009.0	5946.1	5855.6	5790.8	5879.2	5721.9	5114.3	4825.3	4780.1	4780.1	4787.9
22.5°	5863.5	5723.9	5729.8	5627.5	4799.7	4630.6	4634.6	4652.3	4571.6	4296.4	4266.9
25°	5664.9	5643.3	5212.7	4504.8	4510.7	4378.9	4176.4	3891.3	3582.6	3582.6	3531.5
27.5°	5515.5	5057.3	4428.1	4398.6	3956.2	3677.0	3503.9	3242.4	3207.0	3173.6	3177.5
30°	5387.7	4278.7	4294.4	3677.0	3350.6	3118.6	3104.8	3061.5	3039.9	3034.0	3012.4
32.5°	4259.0	4166.6	3594.4	3130.3	3002.5	2965.2	2947.5	2898.3	2896.4	2859.0	2599.4
35°	3993.6	3657.3	3008.4	2882.6	2845.2	2809.8	2780.3	1866.0	220.2	88.5	76.7
37.5°	3690.7	3055.6	2782.3	2725.3	2689.9	1987.9	198.6	68.8	49.2	35.4	31.5
40°	3128.4	2729.2	2642.7	2579.8	1063.8	68.8	43.3	33.4	19.7	17.7	15.7
42.5°	2638.8	2571.9	2479.5	755.1	78.7	33.4	21.6	15.7	13.8	13.8	11.8
45°	2469.7	2410.7	998.9	74.7	49.2	15.7	13.8	13.8	11.8	7.9	7.9
47.5°	2312.4	2035.1	90.4	47.2	31.5	13.8	11.8	7.9	7.9	7.9	5.9
50°	2145.2	112.1	62.9	35.4	19.7	7.9	7.9	7.9	7.9	5.9	5.9
52.5°	401.1	78.7	51.1	31.5	9.8	7.9	7.9	7.9	5.9	5.9	5.9
55°	94.4	62.9	47.2	27.5	7.9	7.9	7.9	5.9	5.9	5.9	3.9
57.5°	70.8	47.2	37.4	25.6	7.9	5.9	5.9	5.9	5.9	5.9	3.9
60°	59.0	33.4	29.5	23.6	5.9	5.9	5.9	5.9	5.9	5.9	3.9
62.5°	41.3	27.5	21.6	17.7	5.9	5.9	5.9	5.9	5.9	5.9	5.9
65°	33.4	21.6	17.7	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
67.5°	29.5	17.7	11.8	3.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
70°	23.6	5.9	5.9	3.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
72.5°	19.7	5.9	3.9	3.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
75°	19.7	9.8	3.9	3.9	5.9	5.9	7.9	7.9	5.9	5.9	5.9
77.5°	13.8	9.8	3.9	3.9	5.9	5.9	7.9	7.9	5.9	5.9	5.9
80°	7.9	9.8	3.9	5.9	5.9	11.8	13.8	7.9	5.9	5.9	5.9
82.5°	7.9	9.8	11.8	11.8	5.9	9.8	11.8	9.8	7.9	5.9	5.9
85°	7.9	5.9	7.9	9.8	5.9	9.8	9.8	7.9	7.9	5.9	5.9
87.5°	3.9	5.9	5.9	7.9	7.9	7.9	9.8	7.9	7.9	7.9	5.9
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-LD5-109SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7
2.5°	7198.6	7206.5	7082.6	7039.4	7076.7	7068.8	7035.4	6911.5	6897.8	6815.2	6695.2
5°	6880.1	6933.2	6868.3	6980.4	6927.3	6980.4	7141.6	7216.3	7338.2	7412.9	7440.5
7.5°	6657.9	6669.7	6669.7	6679.5	6689.3	6691.3	6679.5	6671.7	6638.2	6596.9	6671.7
10°	6388.5	6402.3	6425.9	6421.9	6420.0	6461.3	6471.1	6555.6	6551.7	6567.4	6624.5
12.5°	6248.9	6142.7	6239.1	6213.5	6248.9	6193.8	6296.1	6278.4	6284.3	6331.5	6453.4
15°	6016.9	6050.3	6073.9	6073.9	6087.7	6075.9	6064.1	6144.7	6193.8	6195.8	6187.9
17.5°	5570.5	5316.9	5576.4	5509.6	6042.4	6056.2	6011.0	5973.6	5973.6	6003.1	6066.0
20°	4782.0	4787.9	4789.9	4815.5	4846.9	4845.0	4846.9	5621.6	5989.3	5904.8	5847.8
22.5°	4192.1	4119.4	4255.1	4245.2	4414.3	4601.1	4780.1	4762.4	4774.2	5320.8	5812.4
25°	3360.4	3454.8	3378.1	3411.5	3602.3	3824.5	3962.1	4321.9	4713.2	4685.7	4813.5
27.5°	3163.8	3138.2	3173.6	3173.6	3199.2	3228.7	3305.3	3507.9	3855.9	4221.6	4567.7
30°	2977.0	2998.6	3002.5	3037.9	3057.6	3077.3	3089.1	3165.7	3244.4	3498.0	3924.7
32.5°	2235.7	1960.4	2579.8	2746.9	2888.5	2921.9	2945.5	2977.0	3034.0	3071.4	3285.7
35°	64.9	64.9	68.8	78.7	100.3	676.4	2575.9	2839.3	2876.7	2923.9	2963.2
37.5°	31.5	23.6	27.5	29.5	35.4	49.2	70.8	220.2	2452.0	2772.5	2815.7
40°	13.8	13.8	13.8	13.8	15.7	19.7	29.5	49.2	74.7	1972.2	2660.4
42.5°	11.8	11.8	11.8	11.8	11.8	11.8	13.8	17.7	35.4	84.6	1396.1
45°	7.9	7.9	5.9	7.9	7.9	9.8	11.8	11.8	15.7	53.1	96.3
47.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	9.8	11.8	35.4	51.1
50°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	27.5	35.4
52.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	11.8	31.5
55°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.9	5.9	7.9	27.5
57.5°	3.9	3.9	3.9	3.9	3.9	5.9	3.9	3.9	5.9	5.9	25.6
60°	3.9	3.9	3.9	3.9	3.9	5.9	5.9	5.9	5.9	5.9	23.6
62.5°	5.9	5.9	3.9	5.9	3.9	3.9	5.9	5.9	5.9	5.9	15.7
65°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	3.9	5.9
67.5°	5.9	5.9	5.9	5.9	3.9	5.9	3.9	5.9	5.9	3.9	3.9
70°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	3.9	3.9	3.9	3.9
72.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	3.9	3.9	3.9	3.9
75°	5.9	5.9	5.9	5.9	5.9	5.9	7.9	7.9	3.9	3.9	3.9
77.5°	5.9	5.9	5.9	5.9	5.9	5.9	9.8	11.8	9.8	9.8	3.9
80°	5.9	5.9	5.9	5.9	5.9	5.9	9.8	9.8	9.8	9.8	13.8
82.5°	5.9	5.9	5.9	5.9	5.9	5.9	7.9	7.9	7.9	7.9	9.8
85°	5.9	5.9	5.9	5.9	5.9	5.9	7.9	7.9	7.9	5.9	7.9
87.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	7.9	5.9	5.9	5.9
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-LD5-109SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7
2.5°	6705.1	6638.2	6616.6	6571.4	6567.4	6571.4	6561.5	6547.8	6555.6	6541.9	6530.1
5°	7456.2	7277.3	7161.3	7005.9	6791.6	6744.4	6732.6	6665.8	6642.2	6634.3	6602.8
7.5°	6848.6	7175.0	7371.7	7438.5	7186.8	7127.8	7059.0	7004.0	6950.9	6850.6	6789.6
10°	6579.2	6595.0	6783.7	7004.0	7361.8	7411.0	7448.3	7328.4	7295.0	7039.4	6984.3
12.5°	6516.3	6518.3	6539.9	6673.6	6954.8	6986.3	7118.0	7188.8	7275.3	7324.5	7285.1
15°	6229.2	6388.5	6506.5	6518.3	6543.8	6598.9	6638.2	6884.0	6988.2	7267.4	7251.7
17.5°	6095.5	6146.7	6317.7	6457.3	6433.7	6414.1	6445.5	6479.0	6579.2	6858.5	6854.5
20°	5873.3	6036.5	6129.0	6274.5	6406.2	6412.1	6376.7	6357.0	6317.7	6362.9	6404.2
22.5°	5779.0	5804.5	5977.5	6079.8	6229.2	6282.3	6290.2	6292.2	6270.5	6246.9	6235.1
25°	5769.1	5688.5	5777.0	5904.8	6014.9	6071.9	6136.8	6158.4	6150.6	6150.6	6138.8
27.5°	4721.1	5662.9	5615.7	5700.3	5834.0	5873.3	5906.8	5973.6	6014.9	6044.4	6058.2
30°	4496.9	4666.0	5489.9	5501.7	5637.4	5633.4	5670.8	5725.9	5779.0	5847.8	5865.5
32.5°	3977.8	4392.7	5025.9	5303.1	5444.7	5458.4	5478.1	5493.8	5543.0	5619.7	5686.5
35°	3187.4	4001.4	4306.2	5208.7	5234.3	5261.8	5273.6	5311.0	5326.7	5358.2	5417.2
37.5°	2884.6	3307.3	4131.2	4504.8	4992.4	5016.0	5079.0	5094.7	5120.2	5145.8	5191.0
40°	2709.6	2825.6	3439.1	4023.0	4797.8	4813.5	4835.1	4874.5	4876.4	4905.9	4947.2
42.5°	2570.0	2644.7	2823.6	3842.1	4660.1	4658.2	4607.0	4632.6	4644.4	4675.9	4732.9
45°	2052.8	2481.5	2595.5	3138.2	3710.4	3977.8	4491.0	4406.5	4404.5	4416.3	4477.3
47.5°	104.2	2334.0	2414.6	2589.6	3503.9	3513.8	3580.6	4143.0	4229.5	4202.0	4207.9
50°	70.8	161.2	2249.4	2330.1	3020.2	3264.1	3313.2	3338.8	3663.2	4025.0	3966.0
52.5°	55.1	92.4	1378.4	2162.9	2453.9	2632.9	2949.4	3130.3	3150.0	3295.5	3789.1
55°	49.2	70.8	149.4	1995.8	2086.2	2125.6	2310.4	2627.0	2882.6	2959.3	2965.2
57.5°	43.3	64.9	102.2	902.5	1897.5	1905.3	1936.8	2046.9	2277.0	2487.4	2725.3
60°	39.3	57.0	80.6	155.3	1724.4	1744.1	1750.0	1779.5	1807.0	1950.6	2223.9
62.5°	23.6	45.2	70.8	112.1	1364.6	1567.1	1565.2	1584.8	1610.4	1626.1	1681.2
65°	19.7	35.4	61.0	94.4	167.1	208.4	1266.3	1407.9	1423.6	1445.2	1455.1
67.5°	17.7	31.5	45.2	74.7	125.8	143.5	165.2	204.5	1116.9	1258.4	1278.1
70°	15.7	21.6	37.4	62.9	102.2	110.1	123.9	141.6	167.1	206.5	1010.7
72.5°	9.8	15.7	25.6	45.2	78.7	88.5	96.3	108.1	119.9	143.5	165.2
75°	3.9	11.8	21.6	33.4	61.0	66.9	72.8	80.6	90.4	106.2	118.0
77.5°	3.9	9.8	17.7	23.6	39.3	45.2	53.1	59.0	66.9	74.7	86.5
80°	13.8	7.9	11.8	17.7	27.5	29.5	33.4	37.4	43.3	49.2	57.0
82.5°	9.8	11.8	13.8	11.8	13.8	17.7	19.7	23.6	25.6	29.5	31.5
85°	7.9	7.9	9.8	9.8	9.8	9.8	9.8	9.8	11.8	13.8	17.7
87.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	7.9	7.9
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-LD5-109SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7
2.5°	6530.1	6526.1	6514.3	6514.3	6512.4	6520.2	6526.1	6532.0	6530.1	6541.9	6530.1
5°	6579.2	6569.4	6551.7	6536.0	6530.1	6534.0	6528.1	6534.0	6526.1	6536.0	6518.3
7.5°	6714.9	6681.5	6612.7	6585.1	6549.7	6547.8	6530.1	6526.1	6514.3	6514.3	6492.7
10°	6954.8	6793.6	6773.9	6691.3	6661.8	6518.3	6549.7	6496.7	6490.8	6465.2	6455.4
12.5°	7151.4	7025.6	6988.2	6915.5	6832.9	6541.9	6606.8	6492.7	6486.8	6435.7	6382.6
15°	7155.4	7228.1	7125.9	6925.3	6907.6	6707.0	6575.3	6536.0	6484.9	6331.5	6357.0
17.5°	6925.3	7092.4	7141.6	7098.3	6972.5	6836.8	6652.0	6573.3	6420.0	6351.1	6304.0
20°	6551.7	6720.8	6931.2	6945.0	7023.6	6927.3	6685.4	6557.6	6372.8	6252.8	6213.5
22.5°	6254.8	6378.7	6620.5	6732.6	6829.0	6862.4	6709.0	6520.2	6290.2	6174.2	6150.6
25°	6097.5	6125.0	6197.8	6329.5	6541.9	6695.2	6716.9	6516.3	6396.4	6142.7	6009.0
27.5°	6040.5	6016.9	5987.4	6054.2	6213.5	6400.3	6524.2	6557.6	6258.7	6016.9	5883.2
30°	5895.0	5908.7	5863.5	5839.9	5944.1	6136.8	6357.0	6412.1	6182.0	5932.3	5779.0
32.5°	5716.0	5739.6	5747.5	5706.2	5684.6	5818.3	6056.2	6187.9	6176.1	5812.4	5641.3
35°	5491.9	5558.7	5576.4	5578.4	5543.0	5521.4	5659.0	5932.3	6036.5	5757.3	5509.6
37.5°	5255.9	5275.6	5371.9	5397.5	5397.5	5332.6	5434.9	5653.1	5798.6	5633.4	5348.3
40°	4961.0	5023.9	5114.3	5159.6	5204.8	5210.7	5153.7	5307.0	5546.9	5505.6	5196.9
42.5°	4746.6	4787.9	4843.0	4903.9	4996.4	5020.0	4961.0	4988.5	5238.2	5346.4	5000.3
45°	4496.9	4552.0	4567.7	4634.6	4730.9	4799.7	4797.8	4740.7	4941.3	5075.0	4856.8
47.5°	4241.3	4294.4	4321.9	4355.4	4426.1	4514.6	4563.8	4538.2	4577.5	4839.1	4666.0
50°	3977.8	4007.3	4062.4	4099.7	4146.9	4198.0	4316.0	4339.6	4284.6	4493.0	4455.6
52.5°	3728.1	3737.9	3775.3	3812.7	3875.6	3912.9	4007.3	4078.1	4074.2	4135.1	4221.6
55°	3533.4	3490.2	3498.0	3527.5	3568.8	3625.9	3678.9	3789.1	3826.4	3838.2	3975.9
57.5°	2760.7	3205.1	3244.4	3242.4	3291.6	3317.1	3366.3	3439.1	3572.8	3543.3	3696.6
60°	2509.0	2558.2	2929.8	2973.0	2990.7	3014.3	3073.3	3140.2	3238.5	3301.4	3368.3
62.5°	1913.2	2212.1	2324.2	2652.5	2703.7	2717.4	2756.8	2788.2	2890.5	3034.0	3006.5
65°	1480.6	1608.4	1950.6	2084.3	2363.5	2398.9	2453.9	2487.4	2516.9	2682.0	2689.9
67.5°	1280.1	1299.7	1392.1	1649.7	1826.7	2100.0	2133.4	2162.9	2208.2	2326.1	2398.9
70°	1093.3	1116.9	1142.4	1164.0	1394.1	1575.0	1828.7	1838.5	1868.0	1946.6	2111.8
72.5°	206.5	934.0	949.7	963.5	989.0	1109.0	1350.8	1547.5	1559.3	1596.6	1748.0
75°	139.6	163.2	224.2	770.8	796.4	804.2	845.5	1091.3	1272.2	1280.1	1346.9
77.5°	100.3	112.1	135.7	161.2	411.0	617.4	627.2	672.5	859.3	994.9	1006.7
80°	68.8	76.7	90.4	102.2	125.8	165.2	456.2	469.9	493.5	680.3	715.7
82.5°	39.3	45.2	53.1	64.9	74.7	94.4	121.9	157.3	320.5	342.1	454.2
85°	19.7	21.6	25.6	31.5	37.4	45.2	61.0	74.7	102.2	184.8	190.7
87.5°	9.8	9.8	9.8	9.8	15.7	17.7	21.6	27.5	35.4	53.1	68.8
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-LD5-109SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7
2.5°	6532.0	6559.6	6583.2	6589.1	6589.1	6593.0	6598.9	6602.8	6606.8	6610.7	6606.8
5°	6520.2	6549.7	6569.4	6575.3	6575.3	6587.1	6596.9	6608.7	6614.6	6614.6	6610.7
7.5°	6490.8	6512.4	6537.9	6553.7	6555.6	6575.3	6593.0	6591.0	6598.9	6602.8	6612.7
10°	6451.4	6451.4	6494.7	6506.5	6516.3	6537.9	6543.8	6555.6	6583.2	6587.1	6612.7
12.5°	6431.8	6412.1	6463.2	6469.1	6502.6	6475.0	6510.4	6522.2	6494.7	6532.0	6482.9
15°	6343.3	6366.9	6359.0	6376.7	6435.7	6404.2	6500.6	6469.1	6539.9	6455.4	6604.8
17.5°	6270.5	6266.6	6298.1	6313.8	6325.6	6392.4	6418.0	6453.4	6480.9	6457.3	6516.3
20°	6217.4	6186.0	6209.6	6227.3	6268.6	6319.7	6335.4	6282.3	6374.7	6532.0	6569.4
22.5°	6117.2	6095.5	6123.1	6123.1	6186.0	6178.1	6237.1	6203.7	6290.2	6473.1	6663.8
25°	5981.5	5983.4	6012.9	6048.3	6060.1	6148.6	6180.1	6223.3	6331.5	6549.7	6665.8
27.5°	5843.8	5832.0	5849.7	5922.5	5983.4	6048.3	6058.2	6205.6	6353.1	6502.6	6604.8
30°	5706.2	5694.4	5706.2	5759.3	5832.0	5875.3	5983.4	6180.1	6317.7	6420.0	6516.3
32.5°	5558.7	5546.9	5574.5	5613.8	5741.6	5747.5	5961.8	6146.7	6254.8	6329.5	6311.8
35°	5401.4	5385.7	5411.3	5472.2	5590.2	5633.4	5857.6	5995.2	6117.2	6152.5	6070.0
37.5°	5212.7	5185.1	5216.6	5301.1	5425.0	5550.9	5737.7	5896.9	5961.8	5867.4	5769.1
40°	5016.0	4996.4	5051.4	5094.7	5240.2	5415.2	5629.5	5741.6	5700.3	5592.2	5484.0
42.5°	4841.0	4799.7	4848.9	4931.5	5096.6	5295.2	5468.3	5531.2	5432.9	5273.6	5147.8
45°	4626.7	4577.5	4636.5	4746.6	4923.6	5149.7	5285.4	5263.8	5096.6	4959.0	4786.0
47.5°	4402.5	4343.6	4402.5	4534.3	4732.9	4972.8	5071.1	4972.8	4762.4	4589.3	4449.7
50°	4182.3	4113.5	4170.5	4369.1	4563.8	4748.6	4746.6	4555.9	4430.1	4241.3	4119.4
52.5°	3964.1	3865.7	3922.8	4139.1	4333.7	4544.1	4388.8	4211.8	4060.4	3895.2	3855.9
55°	3694.7	3588.5	3665.2	3979.8	4129.2	4253.1	4005.4	3850.0	3700.6	3618.0	3568.8
57.5°	3439.1	3323.0	3389.9	3761.5	3871.6	3903.1	3675.0	3454.8	3366.3	3338.8	3268.0
60°	3175.6	3043.8	3106.8	3535.4	3612.1	3484.3	3260.1	3089.1	3071.4	3016.3	2961.2
62.5°	2923.9	2778.4	2817.7	3254.2	3289.6	3057.6	2851.1	2805.9	2762.6	2707.6	2678.1
65°	2634.8	2483.4	2538.5	2955.3	2921.9	2623.0	2507.0	2497.2	2440.2	2395.0	2438.2
67.5°	2369.4	2190.5	2267.1	2628.9	2477.5	2233.7	2186.5	2162.9	2117.7	2143.3	1689.1
70°	2078.4	1883.7	1987.9	2277.0	2052.8	1891.6	1873.9	1838.5	1840.5	1462.9	1232.9
72.5°	1753.9	1584.8	1736.2	1891.6	1624.2	1577.0	1551.4	1547.5	1248.6	1014.6	957.6
75°	1468.8	1297.8	1461.0	1519.9	1293.8	1262.4	1260.4	1042.1	819.9	782.6	764.9
77.5°	1146.4	1014.6	1169.9	1081.5	993.0	957.6	859.3	644.9	617.4	591.9	222.2
80°	772.8	782.6	873.0	745.2	707.9	603.7	475.8	456.2	393.3	157.3	123.9
82.5°	469.9	589.9	556.5	466.0	456.2	328.4	300.8	153.4	114.0	90.4	78.7
85°	243.8	298.9	287.1	253.7	188.8	169.1	94.4	72.8	59.0	45.2	37.4
87.5°	82.6	110.1	106.2	84.6	64.9	51.1	33.4	27.5	19.7	15.7	13.8
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-LD5-109SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7
2.5°	6602.8	6602.8	6598.9	6602.8	6604.8	6600.9	6600.9	6604.8	6606.8	6608.7	6618.6
5°	6612.7	6616.6	6622.5	6634.3	6636.3	6659.9	6669.7	6675.6	6681.5	6683.5	6669.7
7.5°	6634.3	6648.1	6659.9	6657.9	6644.1	6606.8	6595.0	6585.1	6602.8	6648.1	6701.1
10°	6654.0	6591.0	6473.1	6634.3	6585.1	6630.4	6764.1	6793.6	6884.0	7011.8	7049.2
12.5°	6518.3	6691.3	6728.7	6547.8	6882.0	6758.2	6905.6	7035.4	7072.8	7202.6	7123.9
15°	6663.8	6748.3	6805.4	6986.3	6966.6	7072.8	7114.1	7088.5	7094.4	7127.8	7216.3
17.5°	6661.8	6830.9	6868.3	6990.2	7072.8	7074.7	7062.9	7051.1	7082.6	7108.2	7055.1
20°	6775.9	6830.9	6903.7	6952.8	6968.6	6988.2	7025.6	6996.1	6937.1	6880.1	6856.5
22.5°	6718.8	6842.7	6905.6	6913.5	6903.7	6842.7	6787.7	6705.1	6677.6	6648.1	6657.9
25°	6730.6	6787.7	6779.8	6748.3	6707.0	6593.0	6565.5	6530.1	6477.0	6349.2	6233.2
27.5°	6646.1	6616.6	6581.2	6504.5	6429.8	6368.8	6300.0	6186.0	6091.6	5954.0	5902.8
30°	6504.5	6386.5	6300.0	6254.8	6182.0	6079.8	5975.6	5836.0	5716.0	5688.5	5662.9
32.5°	6233.2	6117.2	6046.4	5936.3	5812.4	5690.5	5570.5	5515.5	5489.9	5493.8	5470.2
35°	5955.9	5853.7	5747.5	5582.3	5489.9	5368.0	5324.7	5312.9	5289.3	5263.8	5236.3
37.5°	5661.0	5541.0	5381.8	5283.4	5191.0	5141.9	5120.2	5102.5	5061.3	5016.0	4984.6
40°	5375.9	5159.6	5071.1	4974.7	4947.2	4925.6	4894.1	4850.9	4793.8	4786.0	4772.2
42.5°	4994.4	4839.1	4762.4	4742.7	4709.3	4671.9	4644.4	4597.2	4573.6	4589.3	4601.1
45°	4632.6	4553.9	4528.4	4504.8	4441.9	4388.8	4371.1	4355.4	4375.0	4461.5	4255.1
47.5°	4339.6	4308.2	4276.7	4237.4	4178.4	4139.1	4156.8	4172.5	4190.2	3555.1	3244.4
50°	4086.0	4042.7	3993.6	3950.3	3914.9	3911.0	4003.4	3726.1	3120.5	3104.8	2790.2
52.5°	3808.7	3743.8	3714.3	3688.8	3704.5	3763.5	3114.6	2890.5	2772.5	2408.7	2247.5
55°	3509.8	3452.8	3452.8	3476.4	3391.9	2748.9	2715.5	2347.8	2125.6	2062.6	2037.1
57.5°	3211.0	3205.1	3238.5	2961.2	2495.2	2393.0	2011.5	1930.9	1895.5	1887.6	1846.4
60°	2937.7	2992.7	2505.1	2304.5	2003.7	1807.0	1752.0	1742.1	1704.8	1691.0	1653.7
62.5°	2719.4	2255.3	2100.0	1714.6	1614.3	1588.8	1559.3	1545.5	1512.1	1335.1	391.3
65°	1964.3	1856.2	1506.2	1441.3	1433.4	1396.1	1384.3	1244.7	293.0	196.6	167.1
67.5°	1482.6	1315.5	1270.2	1258.4	1221.1	1146.4	340.2	194.7	167.1	145.5	127.8
70°	1138.5	1109.0	1075.6	1048.0	308.7	192.7	167.1	141.6	121.9	108.1	98.3
72.5°	932.0	912.4	530.9	202.5	165.2	139.6	123.9	108.1	94.4	86.5	78.7
75°	729.5	202.5	167.1	139.6	119.9	102.2	90.4	80.6	72.8	66.9	61.0
77.5°	165.2	133.7	114.0	96.3	86.5	76.7	68.8	59.0	53.1	47.2	39.3
80°	102.2	88.5	74.7	68.8	59.0	49.2	43.3	39.3	31.5	29.5	25.6
82.5°	66.9	53.1	47.2	39.3	31.5	29.5	25.6	19.7	17.7	15.7	13.8
85°	29.5	25.6	21.6	17.7	13.8	11.8	9.8	7.9	7.9	7.9	7.9
87.5°	9.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	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-LD5-109SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7
2.5°	6622.5	6657.9	6691.3	6681.5	6646.1	6591.0	6575.3	6553.7	6569.4	6602.8	6616.6
5°	6669.7	6650.0	6720.8	6825.0	6994.1	7009.9	7127.8	7155.4	7249.7	7308.7	7306.8
7.5°	6736.5	7015.8	7131.8	7257.6	7314.6	7300.9	7318.6	7304.8	7283.2	7273.3	7261.5
10°	7076.7	7289.1	7332.3	7332.3	7243.8	7123.9	7072.8	6984.3	6807.3	6811.3	6781.8
12.5°	7275.3	7350.0	7247.8	7161.3	6805.4	6667.7	6518.3	6447.5	6406.2	6343.3	6366.9
15°	7171.1	7064.9	7004.0	6724.7	6506.5	6258.7	6262.7	6219.4	6174.2	6178.1	6148.6
17.5°	7017.7	6933.2	6500.6	6307.9	6201.7	6105.4	6087.7	6030.6	6001.1	5991.3	5989.3
20°	6807.3	6502.6	6180.1	6132.9	6005.1	5895.0	5877.3	5895.0	5985.4	5824.2	5277.5
22.5°	6561.5	6123.1	6028.7	5895.0	5808.4	5765.2	5873.3	5381.8	4638.5	4728.9	4632.6
25°	6144.7	5954.0	5792.7	5690.5	5680.6	5415.2	4512.7	4418.3	3940.5	3684.8	3397.8
27.5°	5839.9	5757.3	5588.2	5570.5	5442.7	4428.1	3958.2	3439.1	3248.3	3218.8	3155.9
30°	5655.1	5537.1	5434.9	4988.5	4343.6	3564.9	3175.6	3102.8	3069.4	3034.0	2978.9
32.5°	5432.9	5320.8	5370.0	4194.1	3462.7	3069.4	2990.7	2937.7	2876.7	2853.1	2654.5
35°	5206.8	5155.6	4196.1	3525.6	2977.0	2882.6	2823.6	2768.5	2202.3	532.9	180.9
37.5°	4964.9	4953.1	3771.4	2925.9	2788.2	2699.7	2532.6	523.0	123.9	84.6	62.9
40°	4776.1	3773.3	2980.9	2743.0	2630.9	2491.3	350.0	86.5	55.1	33.4	21.6
42.5°	4650.3	3393.8	2668.3	2573.9	2330.1	257.6	88.5	37.4	21.6	17.7	13.8
45°	3584.6	2680.1	2493.3	2395.0	294.9	88.5	51.1	17.7	13.8	11.8	7.9
47.5°	3307.3	2434.3	2324.2	523.0	98.3	47.2	35.4	11.8	7.9	7.9	7.9
50°	2505.1	2249.4	1850.3	127.8	62.9	33.4	25.6	7.9	7.9	7.9	5.9
52.5°	2196.4	2076.4	198.6	84.6	49.2	25.6	15.7	5.9	5.9	5.9	5.9
55°	2007.6	1317.4	118.0	64.9	41.3	23.6	9.8	5.9	5.9	5.9	3.9
57.5°	1836.5	177.0	86.5	55.1	37.4	21.6	5.9	5.9	5.9	5.9	3.9
60°	1557.3	127.8	70.8	49.2	35.4	19.7	5.9	5.9	5.9	5.9	5.9
62.5°	202.5	100.3	61.0	43.3	25.6	15.7	3.9	5.9	5.9	5.9	5.9
65°	147.5	78.7	55.1	29.5	15.7	5.9	3.9	5.9	5.9	5.9	5.9
67.5°	114.0	64.9	41.3	25.6	13.8	3.9	3.9	5.9	5.9	5.9	5.9
70°	90.4	55.1	33.4	21.6	11.8	3.9	3.9	5.9	5.9	5.9	5.9
72.5°	70.8	39.3	23.6	11.8	7.9	3.9	3.9	5.9	5.9	5.9	5.9
75°	53.1	31.5	17.7	9.8	3.9	3.9	3.9	5.9	5.9	5.9	5.9
77.5°	35.4	19.7	13.8	7.9	7.9	7.9	9.8	9.8	5.9	5.9	5.9
80°	23.6	13.8	9.8	9.8	9.8	7.9	9.8	9.8	5.9	9.8	5.9
82.5°	11.8	9.8	9.8	7.9	7.9	5.9	7.9	7.9	7.9	7.9	5.9
85°	7.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	7.9	7.9	5.9
87.5°	3.9	3.9	3.9	3.9	5.9	5.9	5.9	5.9	7.9	7.9	5.9
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-LD5-109SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7
2.5°	6598.9	6604.8	6589.1	6673.6	6630.4	6634.3	6652.0	6606.8	6616.6	6585.1	6563.5
5°	7314.6	7326.4	7338.2	7342.2	7350.0	7359.9	7348.1	7342.2	7330.4	7291.0	7249.7
7.5°	7202.6	7188.8	7182.9	7190.8	7204.5	7210.4	7200.6	7214.4	7265.5	7287.1	7300.9
10°	6612.7	6549.7	6593.0	6587.1	6537.9	6703.1	6657.9	6683.5	6701.1	6882.0	6992.2
12.5°	6331.5	6370.8	6296.1	6258.7	6307.9	6341.3	6374.7	6304.0	6402.3	6357.0	6502.6
15°	6095.5	6071.9	6064.1	6066.0	6056.2	6103.4	6115.2	6130.9	6144.7	6205.6	6229.2
17.5°	5989.3	6028.7	6044.4	6056.2	6036.5	6014.9	5993.3	5961.8	5971.6	5955.9	6001.1
20°	4909.8	4778.1	4770.2	4846.9	4762.4	4809.6	4923.6	5686.5	5661.0	5957.9	5857.6
22.5°	4097.8	3973.9	3867.7	3775.3	3907.0	3962.1	4174.5	4414.3	4803.7	4742.7	5165.5
25°	3346.6	3301.4	3273.9	3260.1	3270.0	3266.0	3313.2	3425.3	3602.3	4019.1	4557.9
27.5°	3130.3	3108.7	3098.9	3067.4	3091.0	3083.2	3120.5	3144.1	3197.2	3238.5	3413.5
30°	2959.3	2933.7	2916.0	2882.6	2906.2	2908.2	2920.0	2980.9	3002.5	3037.9	3093.0
32.5°	1081.5	637.1	597.8	568.3	621.4	810.1	1421.6	2485.4	2835.4	2862.9	2925.9
35°	106.2	88.5	78.7	78.7	80.6	88.5	118.0	310.7	568.3	2196.4	2748.9
37.5°	41.3	35.4	29.5	27.5	29.5	33.4	45.2	59.0	80.6	167.1	745.2
40°	17.7	15.7	13.8	13.8	13.8	13.8	15.7	19.7	29.5	55.1	86.5
42.5°	11.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	13.8	17.7	35.4
45°	7.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	7.9	9.8	15.7
47.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	7.9
50°	5.9	5.9	5.9	5.9	3.9	5.9	3.9	5.9	5.9	5.9	5.9
52.5°	5.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.9	5.9
55°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.9
57.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
60°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
62.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.9	5.9	3.9
65°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.9	3.9
67.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
70°	5.9	5.9	3.9	5.9	3.9	3.9	5.9	5.9	5.9	3.9	3.9
72.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	11.8	11.8	7.9
75°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	9.8	11.8	9.8
77.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	9.8	9.8	9.8
80°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	7.9	7.9	7.9
82.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	7.9	7.9	7.9
85°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
87.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
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-LD5-109SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7
2.5°	6526.1	6524.2	6565.5	6596.9	6585.1	6596.9	6610.7	6612.7	6616.6	6600.9	6595.0
5°	7171.1	7110.1	6992.2	6907.6	6809.3	6630.4	6541.9	6551.7	6553.7	6547.8	6555.6
7.5°	7295.0	7289.1	7247.8	7230.1	7163.2	7035.4	6830.9	6795.5	6709.0	6654.0	6608.7
10°	6984.3	7125.9	7163.2	7226.1	7265.5	7241.9	7068.8	7043.3	6988.2	6925.3	6939.1
12.5°	6648.1	6764.1	6770.0	7112.1	7188.8	7196.7	7129.8	7165.2	7173.1	7031.5	6948.9
15°	6235.1	6290.2	6406.2	6724.7	6956.8	7102.3	7145.5	7165.2	7068.8	7062.9	7029.5
17.5°	6054.2	6089.6	6142.7	6321.7	6673.6	6887.9	7070.8	7057.0	7094.4	7066.9	6982.3
20°	5826.1	5855.6	5950.0	6040.5	6213.5	6498.6	6840.8	6866.3	6915.5	6909.6	6933.2
22.5°	5822.2	5718.0	5733.7	5804.5	5985.4	6241.0	6604.8	6689.3	6720.8	6742.4	6768.0
25°	4618.8	5446.6	5598.1	5643.3	5761.3	5910.7	6339.3	6370.8	6429.8	6526.1	6596.9
27.5°	4001.4	4563.8	5169.4	5484.0	5558.7	5682.6	5938.2	5985.4	6186.0	6209.6	6319.7
30°	3157.9	3592.4	4496.9	5254.0	5377.8	5464.3	5645.2	5739.6	5826.1	5920.5	6036.5
32.5°	2971.1	3039.9	3541.3	4347.5	5311.0	5246.1	5379.8	5436.8	5531.2	5613.8	5698.3
35°	2800.0	2847.2	2953.4	3561.0	4325.9	5067.2	5157.6	5195.0	5248.1	5311.0	5371.9
37.5°	2621.1	2691.9	2764.6	2927.8	4001.4	4925.6	4923.6	4966.9	4998.3	5051.4	5102.5
40°	475.8	2471.6	2589.6	2695.8	3102.8	3928.7	4703.4	4723.1	4744.7	4778.1	4831.2
42.5°	76.7	412.9	2426.4	2528.7	2644.7	3517.7	4603.1	4522.5	4508.7	4532.3	4579.5
45°	39.3	100.3	487.6	2361.5	2465.7	2805.9	3763.5	4382.9	4369.1	4323.9	4333.7
47.5°	29.5	62.9	119.9	816.0	2308.4	2408.7	3472.5	3435.1	3696.6	4198.0	4121.4
50°	25.6	43.3	70.8	167.1	2039.1	2218.0	2674.2	3124.4	3262.1	3279.8	3881.5
52.5°	23.6	29.5	51.1	108.1	428.7	2050.8	2174.7	2332.0	2564.1	3061.5	3049.7
55°	21.6	27.5	43.3	72.8	149.4	1848.3	1976.1	2005.6	2054.8	2292.7	2607.3
57.5°	11.8	25.6	41.3	62.9	112.1	338.2	1793.3	1816.9	1856.2	1866.0	1978.1
60°	5.9	23.6	37.4	55.1	82.6	157.3	1612.4	1639.9	1663.5	1667.4	1702.8
62.5°	3.9	21.6	31.5	51.1	68.8	112.1	381.5	778.7	1480.6	1480.6	1521.9
65°	3.9	15.7	19.7	33.4	62.9	92.4	161.2	186.8	363.8	894.7	1335.1
67.5°	3.9	5.9	17.7	27.5	47.2	70.8	118.0	137.6	165.2	188.8	350.0
70°	3.9	3.9	15.7	17.7	29.5	53.1	84.6	96.3	112.1	127.8	147.5
72.5°	3.9	3.9	13.8	13.8	19.7	35.4	64.9	70.8	80.6	90.4	104.2
75°	9.8	7.9	11.8	11.8	13.8	27.5	49.2	55.1	59.0	66.9	76.7
77.5°	9.8	9.8	9.8	9.8	9.8	17.7	31.5	35.4	41.3	45.2	53.1
80°	7.9	7.9	7.9	9.8	9.8	11.8	19.7	21.6	23.6	29.5	31.5
82.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	11.8	13.8	17.7
85°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	7.9	7.9	7.9
87.5°	5.9	5.9	5.9	3.9	3.9	5.9	5.9	5.9	5.9	5.9	5.9
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-LD5-109SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7	6551.7
2.5°	6593.0	6581.2	6571.4	6577.3	6559.6	6551.7	6557.6	6559.6	6563.5	6573.3	6575.3
5°	6575.3	6571.4	6589.1	6598.9	6595.0	6598.9	6598.9	6591.0	6579.2	6587.1	6569.4
7.5°	6563.5	6537.9	6518.3	6522.2	6502.6	6526.1	6547.8	6579.2	6589.1	6589.1	6569.4
10°	6766.0	6738.5	6628.4	6553.7	6504.5	6461.3	6563.5	6459.3	6508.4	6321.7	6536.0
12.5°	6933.2	6970.5	6921.4	6716.9	6681.5	6551.7	6626.4	6498.6	6461.3	6246.9	6315.8
15°	7000.0	6929.2	6913.5	6856.5	6779.8	6742.4	6541.9	6520.2	6459.3	6482.9	6392.4
17.5°	6941.0	6976.4	6929.2	6891.9	6813.2	6724.7	6604.8	6498.6	6414.1	6225.3	6384.6
20°	6884.0	6931.2	6789.6	6813.2	6821.1	6718.8	6655.9	6567.4	6461.3	6284.3	6146.7
22.5°	6789.6	6756.2	6768.0	6732.6	6703.1	6716.9	6630.4	6569.4	6390.5	6309.9	6123.1
25°	6636.3	6624.5	6655.9	6652.0	6581.2	6557.6	6514.3	6449.5	6378.7	6248.9	6095.5
27.5°	6386.5	6447.5	6502.6	6528.1	6490.8	6427.8	6404.2	6366.9	6317.7	6186.0	6071.9
30°	6123.1	6191.9	6254.8	6309.9	6343.3	6315.8	6294.1	6272.5	6197.8	6111.3	5983.4
32.5°	5822.2	5912.7	5999.2	6066.0	6138.8	6160.4	6144.7	6127.0	6064.1	5985.4	5883.2
35°	5474.2	5598.1	5723.9	5843.8	5875.3	5926.4	5977.5	5948.1	5914.6	5836.0	5741.6
37.5°	5179.2	5267.7	5358.2	5509.6	5619.7	5684.6	5775.0	5786.8	5729.8	5692.4	5568.6
40°	4874.5	4955.1	5086.8	5175.3	5326.7	5401.4	5497.8	5541.0	5527.3	5505.6	5397.5
42.5°	4634.6	4673.9	4760.4	4839.1	4988.5	5141.9	5226.4	5273.6	5322.8	5305.1	5250.0
45°	4378.9	4414.3	4443.8	4512.7	4658.2	4793.8	4898.1	4968.8	5057.3	5098.6	5031.8
47.5°	4125.3	4135.1	4170.5	4227.5	4314.1	4418.3	4593.3	4699.5	4782.0	4862.7	4819.4
50°	3930.6	3895.2	3901.1	3936.5	4007.3	4109.6	4235.4	4384.8	4479.2	4577.5	4587.4
52.5°	3435.1	3722.2	3653.4	3673.0	3710.4	3759.6	3891.3	4038.8	4154.8	4239.3	4323.9
55°	2882.6	2939.6	3492.1	3413.5	3437.1	3480.3	3541.3	3688.8	3800.9	3918.8	4036.8
57.5°	2235.7	2660.4	2682.0	3193.3	3181.5	3185.4	3236.5	3321.1	3433.2	3580.6	3680.9
60°	1738.2	1917.1	2265.2	2442.1	2890.5	2906.2	2935.7	2984.8	3081.2	3220.8	3380.1
62.5°	1533.7	1557.3	1681.2	1946.6	2237.6	2589.6	2652.5	2660.4	2703.7	2843.3	3028.1
65°	1346.9	1362.6	1400.0	1427.5	1671.4	2011.5	2314.3	2363.5	2391.0	2473.6	2630.9
67.5°	928.1	1173.9	1207.3	1227.0	1250.6	1407.9	1783.4	2033.2	2064.6	2137.4	2275.0
70°	178.9	371.6	1016.6	1038.2	1050.0	1085.4	1146.4	1543.5	1752.0	1820.8	1883.7
72.5°	121.9	143.5	173.0	409.0	865.2	884.8	898.6	949.7	1301.7	1502.3	1535.7
75°	88.5	98.3	116.0	143.5	177.0	576.1	713.8	739.3	764.9	1055.9	1225.0
77.5°	62.9	70.8	78.7	92.4	108.1	139.6	200.6	552.5	578.1	591.9	835.7
80°	35.4	43.3	53.1	61.0	68.8	78.7	102.2	127.8	285.1	416.9	438.5
82.5°	19.7	23.6	27.5	33.4	37.4	47.2	57.0	68.8	90.4	133.7	283.1
85°	9.8	9.8	9.8	13.8	15.7	21.6	25.6	29.5	41.3	57.0	78.7
87.5°	5.9	5.9	7.9	7.9	7.9	9.8	9.8	9.8	11.8	17.7	25.6
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-LD5-109SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	6551.7	6551.7	6551.7	6551.7	6551.7
2.5°	6577.3	6571.4	6571.4	6595.0	6589.1
5°	6565.5	6559.6	6557.6	6583.2	6571.4
7.5°	6555.6	6534.0	6528.1	6551.7	6541.9
10°	6516.3	6500.6	6510.4	6502.6	6498.6
12.5°	6449.5	6439.6	6398.3	6402.3	6435.7
15°	6329.5	6368.8	6298.1	6361.0	6374.7
17.5°	6109.3	6197.8	6266.6	6304.0	6309.9
20°	6207.6	6237.1	6201.7	6203.7	6227.3
22.5°	6079.8	6093.6	6103.4	6091.6	6142.7
25°	5875.3	5822.2	5936.3	5959.9	6042.4
27.5°	5812.4	5769.1	5822.2	5818.3	5887.1
30°	5761.3	5621.6	5645.2	5682.6	5767.2
32.5°	5688.5	5468.3	5444.7	5527.3	5621.6
35°	5560.7	5352.3	5297.2	5350.3	5491.9
37.5°	5452.5	5191.0	5080.9	5151.7	5336.5
40°	5291.3	5065.2	4894.1	4957.0	5175.3
42.5°	5098.6	4957.0	4693.6	4736.8	4986.5
45°	4903.9	4778.1	4498.9	4520.5	4817.4
47.5°	4705.4	4589.3	4296.4	4300.3	4601.1
50°	4510.7	4357.3	4115.5	4046.6	4371.1
52.5°	4257.0	4115.5	3932.6	3820.5	4152.8
55°	4017.1	3857.9	3724.2	3551.1	3905.1
57.5°	3783.2	3606.2	3515.7	3293.6	3623.9
60°	3462.7	3378.1	3244.4	3032.0	3370.2
62.5°	3134.3	3106.8	2971.1	2750.9	3057.6
65°	2750.9	2815.7	2676.1	2487.4	2733.2
67.5°	2389.1	2505.1	2351.7	2235.7	2420.5
70°	2003.7	2137.4	2050.8	2009.6	2088.2
72.5°	1624.2	1753.9	1761.8	1732.3	1757.9
75°	1254.5	1398.0	1476.7	1431.5	1437.4
77.5°	951.7	1020.5	1107.0	1142.4	1134.6
80°	587.9	707.9	778.7	851.4	825.8
82.5°	296.9	397.2	483.7	562.4	525.0
85°	123.9	159.3	222.2	293.0	281.2
87.5°	37.4	62.9	66.9	94.4	88.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)