

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-L935-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-L935-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

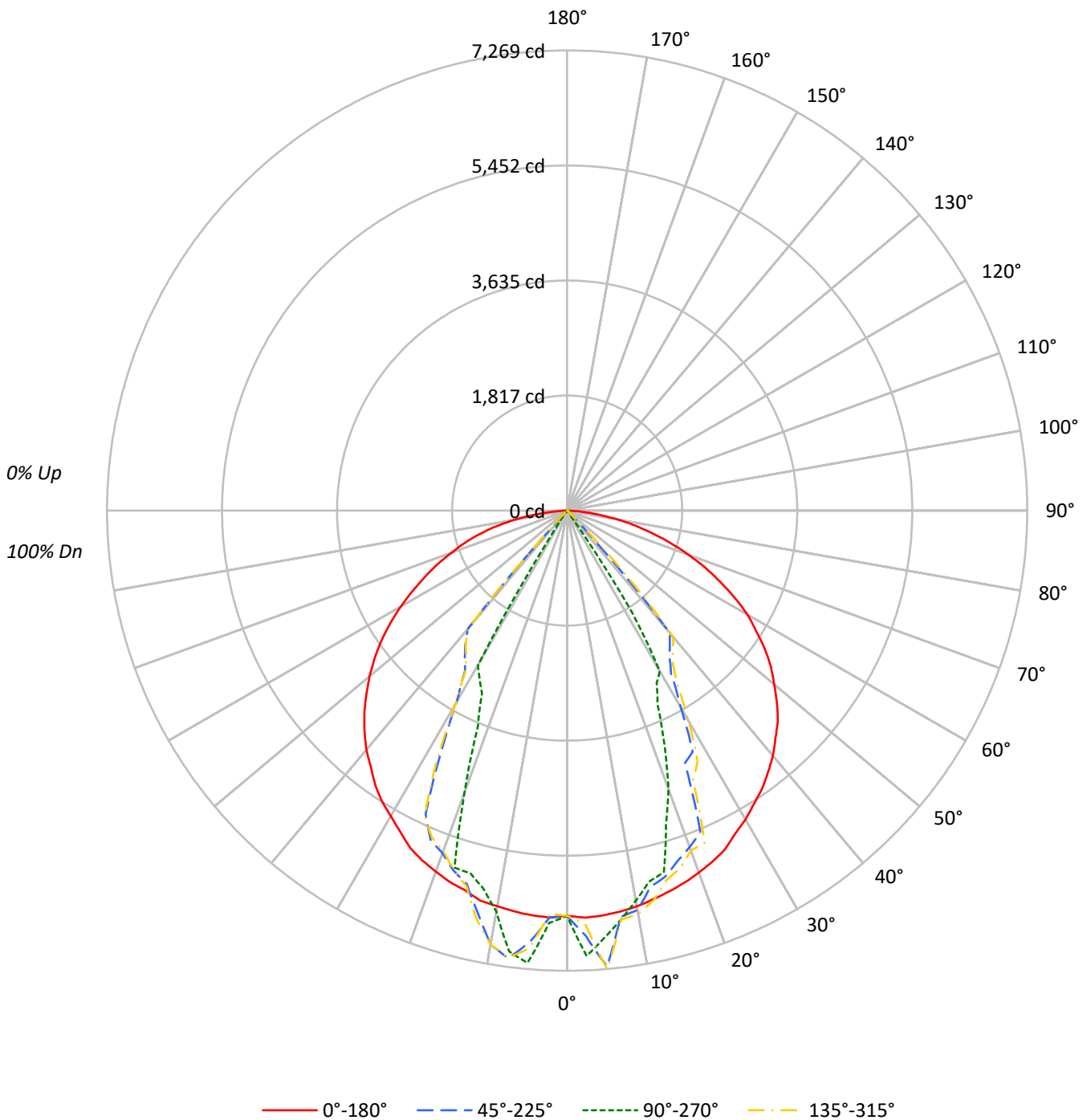
Lumens per Lamp: N/A
Luminaire Lumens: 9101.0 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: 8SNLED-LD5-109SL-RM-UNV-L935-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	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°	25861	25861	25861	25861
5°	26002	26598	25995	28167
10°	25976	24068	25960	24763
15°	25942	22465	25878	22523
20°	26010	17694	25936	17913
25°	26126	12805	25999	12084
30°	26051	11233	25776	10798
35°	26177	248	25793	300
40°	26322	54	25692	54
45°	26479	32	25484	24
50°	26351	25	25143	25
55°	26287	17	24673	17
60°	25906	19	23880	19
65°	24700	31	22941	20
70°	23108	34	21998	34
75°	20714	38	21053	38
80°	17245	43	18230	43
85°	10805	51	11033	51



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-109SL-RM-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.1	7.1
10°-20°	1751.6	19.2
20°-30°	2228.8	24.5
30°-40°	1882.8	20.7
40°-50°	1230.9	13.5
50°-60°	775.6	8.5
60°-70°	412.9	4.5
70°-80°	150.5	1.7
80°-90°	25.9	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°	4622.5	50.8
0°-40°	6505.3	71.5
0°-60°	8511.7	93.5
0°-90°	9101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9101.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6400	6400	6400	6400	6400	
5°	6420	6773	6418	7173	6420	610
15°	6228	5911	6212	5926	6228	1761
25°	5903	3375	5874	3185	5903	2715
35°	5365	63	5286	77	5365	3356
45°	4706	8	4530	6	4706	3619
55°	3815	4	3581	4	3815	3399
65°	2670	6	2480	4	2670	2644
75°	1404	6	1427	6	1404	1490
85°	275	6	280	6	275	347
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-109SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5
2.5°	6437.0	6440.8	6442.8	6446.6	6452.4	6454.3	6458.1	6454.3	6454.3	6454.3	6454.3
5°	6419.7	6427.4	6433.2	6440.8	6454.3	6456.2	6471.6	6473.5	6481.2	6496.5	6508.1
7.5°	6390.9	6398.6	6410.1	6429.3	6448.5	6469.7	6496.5	6525.4	6565.7	6604.1	6652.1
10°	6348.6	6358.2	6371.7	6389.0	6483.1	6496.5	6556.1	6638.7	6661.7	6782.8	6873.1
12.5°	6287.2	6319.8	6354.4	6369.8	6460.1	6602.2	6802.0	6761.6	6717.5	7113.2	7107.4
15°	6227.6	6271.8	6254.5	6379.4	6462.0	6709.8	6625.3	6805.8	7136.2	7055.5	7059.4
17.5°	6164.2	6173.8	6269.9	6373.6	6521.5	6648.3	6752.0	6999.8	7065.1	7070.9	6999.8
20°	6083.6	6129.7	6269.9	6364.0	6613.7	6673.3	6898.0	7024.8	6997.9	6932.6	6811.6
22.5°	6001.0	6141.2	6283.3	6415.9	6590.7	6750.1	6861.5	6921.1	6780.8	6523.4	6385.1
25°	5903.0	5985.6	6171.9	6365.9	6584.9	6677.1	6742.4	6646.4	6463.9	6233.4	6001.0
27.5°	5751.2	5883.8	6122.0	6341.0	6538.8	6650.2	6544.6	6314.1	6020.2	5868.4	5762.8
30°	5634.1	5806.9	6002.9	6214.2	6419.7	6485.0	6216.1	5952.9	5751.2	5599.5	5576.4
32.5°	5491.9	5737.8	5924.1	6125.8	6298.7	6212.3	5951.0	5611.0	5443.9	5386.3	5409.3
35°	5365.1	5551.5	5795.4	5993.3	6118.1	5924.1	5511.1	5299.8	5219.1	5251.8	5209.5
37.5°	5213.4	5459.3	5684.0	5855.0	5812.7	5520.7	5171.1	5036.7	5046.3	5019.4	4938.7
40°	5055.9	5290.2	5524.6	5685.9	5538.0	5092.4	4859.9	4831.1	4836.9	4750.4	4635.2
42.5°	4871.5	5084.7	5319.0	5465.0	5146.1	4798.5	4640.9	4644.8	4594.8	4473.8	4412.4
45°	4706.3	4902.2	5146.1	5159.6	4767.7	4477.7	4431.6	4381.6	4270.2	4229.9	4183.8
47.5°	4495.0	4712.0	4913.7	4840.7	4397.0	4216.4	4181.8	4072.3	4016.6	3985.9	3947.5
50°	4270.2	4489.2	4673.6	4466.1	4047.4	4005.1	3891.8	3805.3	3766.9	3734.3	3699.7
52.5°	4057.0	4237.5	4425.8	4068.5	3778.4	3738.1	3609.4	3559.5	3521.0	3484.5	3476.9
55°	3814.9	3974.4	4103.1	3690.1	3521.0	3426.9	3334.7	3300.1	3263.6	3246.4	3275.2
57.5°	3540.3	3720.8	3701.6	3317.4	3242.5	3106.1	3071.6	3048.5	3021.6	3033.1	2793.0
60°	3292.5	3430.8	3336.6	3044.7	2917.9	2825.7	2794.9	2779.6	2794.9	2560.6	2251.3
62.5°	2987.0	3142.6	2952.5	2725.8	2591.3	2547.1	2520.2	2541.4	2316.6	2059.2	1984.3
65°	2670.1	2839.1	2558.7	2383.9	2299.3	2260.9	2259.0	2080.4	1859.5	1759.6	1759.6
67.5°	2364.7	2539.5	2178.3	2032.3	1999.7	2003.5	1892.1	1621.3	1559.8	1492.6	1298.5
70°	2040.0	2193.7	1799.9	1711.5	1692.3	1678.9	1408.0	1335.0	1262.0	1083.4	1068.0
72.5°	1717.3	1792.2	1446.5	1425.3	1421.5	1181.4	1127.6	1002.7	918.2	897.1	887.5
75°	1404.2	1381.1	1142.9	1162.2	979.7	895.1	808.7	735.7	724.2	716.5	178.6
77.5°	1108.4	993.1	900.9	783.7	701.1	595.5	578.2	566.7	372.7	134.5	109.5
80°	806.8	643.5	599.3	509.0	434.1	416.8	426.4	130.6	103.7	86.4	74.9
82.5°	512.9	411.1	336.2	293.9	286.2	124.9	92.2	74.9	65.3	55.7	46.1
85°	274.7	182.5	169.0	142.1	84.5	57.6	48.0	36.5	30.7	25.0	23.1
87.5°	86.4	73.0	59.5	48.0	28.8	19.2	15.4	13.4	11.5	9.6	9.6
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5
2.5°	6450.4	6454.3	6452.4	6458.1	6458.1	6465.8	6471.6	6477.3	6488.9	6494.6	6538.8
5°	6533.0	6542.7	6571.5	6598.4	6631.0	6640.6	6696.3	6709.8	6775.1	6782.8	6997.9
7.5°	6717.5	6754.0	6823.1	6892.3	6961.4	7005.6	7082.4	7130.5	7182.3	7228.4	7399.4
10°	6940.3	7001.8	7069.0	7138.1	7178.5	7263.0	7309.1	7316.8	7303.3	7228.4	6951.8
12.5°	7159.3	7220.7	7191.9	7205.4	7253.4	7103.6	7124.7	7017.1	7092.0	6721.3	6446.6
15°	7128.5	7124.7	7053.6	6823.1	6861.5	6575.3	6460.1	6371.7	6442.8	6404.3	6362.1
17.5°	7036.3	6861.5	6738.6	6462.0	6344.8	6264.1	6266.0	6268.0	6233.4	6269.9	6162.3
20°	6646.4	6450.4	6268.0	6170.0	6135.4	6077.8	6106.6	6077.8	6079.7	6091.2	5926.0
22.5°	6127.7	6068.2	5962.5	5993.3	5981.7	6033.6	5995.2	5935.6	5954.9	5868.4	5743.5
25°	5918.4	5849.2	5845.4	5856.9	5839.6	5816.5	5782.0	5691.7	5685.9	5659.0	5601.4
27.5°	5707.1	5710.9	5722.4	5687.8	5626.4	5580.3	5528.4	5484.2	5501.5	5470.8	5392.0
30°	5561.1	5559.1	5490.0	5459.3	5345.9	5347.8	5334.4	5307.5	5290.2	5292.1	5242.2
32.5°	5353.6	5294.1	5215.3	5176.9	5167.3	5132.7	5105.8	5111.6	5125.0	5077.0	5128.9
35°	5140.4	5017.4	5005.9	4973.3	4942.5	4919.5	4929.1	4890.7	4888.7	4883.0	4460.4
37.5°	4854.2	4794.6	4788.9	4754.3	4733.1	4727.4	4690.9	4696.6	4713.9	4744.7	3803.4
40°	4617.9	4564.1	4550.7	4548.7	4502.6	4498.8	4508.4	4544.9	4569.9	4377.8	3624.8
42.5°	4364.3	4368.2	4325.9	4299.0	4304.8	4322.1	4368.2	4241.4	3674.7	3501.8	3313.6
45°	4147.3	4128.1	4105.0	4097.3	4147.3	4112.7	3605.6	3327.0	3259.8	3252.1	2723.9
47.5°	3920.6	3914.8	3905.2	3911.0	3626.7	3232.9	3117.7	3081.2	3092.7	3085.0	2339.7
50°	3692.0	3699.7	3699.7	3231.0	2965.9	2900.6	2910.2	2942.8	2739.2	2556.7	2180.2
52.5°	3494.2	3434.6	2942.8	2773.8	2714.3	2743.1	2673.9	2418.4	2234.0	2126.5	2017.0
55°	3127.3	2689.3	2579.8	2552.9	2574.0	2318.5	2161.0	1995.8	1947.8	1936.3	1872.9
57.5°	2460.7	2372.3	2381.9	2274.4	2030.4	1886.3	1823.0	1799.9	1778.8	1763.4	153.7
60°	2176.4	2201.4	2015.0	1784.5	1686.6	1667.4	1652.0	1630.9	1627.0	1600.1	98.0
62.5°	1992.0	1751.9	1590.5	1532.9	1509.8	1504.1	1475.3	1465.7	1244.8	171.0	73.0
65°	1502.2	1404.2	1373.5	1360.0	1335.0	1335.0	1108.4	174.8	142.1	122.9	65.3
67.5°	1225.5	1217.9	1202.5	1185.2	806.8	169.0	147.9	128.7	111.4	98.0	57.6
70°	1037.3	1033.5	941.3	172.9	144.1	126.8	111.4	99.9	92.2	82.6	51.9
72.5°	851.0	172.9	146.0	126.8	109.5	99.9	90.3	80.7	73.0	67.2	42.3
75°	132.5	117.2	103.7	94.1	86.4	76.8	69.2	63.4	61.5	53.8	28.8
77.5°	96.0	82.6	74.9	67.2	59.5	53.8	46.1	40.3	36.5	30.7	21.1
80°	67.2	59.5	53.8	44.2	38.4	32.7	28.8	25.0	23.1	19.2	9.6
82.5°	38.4	32.7	28.8	23.1	21.1	17.3	15.4	13.4	13.4	9.6	9.6
85°	17.3	17.3	13.4	11.5	9.6	9.6	9.6	7.7	7.7	5.8	5.8
87.5°	7.7	7.7	7.7	7.7	7.7	5.8	5.8	5.8	5.8	5.8	3.8
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5
2.5°	6600.3	6625.3	6673.3	6723.2	6667.5	6867.3	6851.9	6919.2	6955.6	6972.9	7013.3
5°	7188.1	7299.5	7336.0	7226.5	7163.1	7097.8	6949.9	6838.5	6851.9	6815.4	6682.9
7.5°	7176.6	6938.4	6617.6	6471.6	6460.1	6442.8	6488.9	6515.8	6519.6	6517.7	6513.8
10°	6569.5	6446.6	6425.5	6406.3	6414.0	6342.9	6310.2	6218.0	6268.0	6241.1	6250.7
12.5°	6385.1	6356.3	6243.0	6085.5	6179.6	6108.5	6068.2	6095.1	6064.3	6035.5	6025.9
15°	6275.6	6089.3	6025.9	5987.5	5960.6	5945.2	5958.7	5928.0	5918.4	5912.6	5926.0
17.5°	6049.0	5974.1	5904.9	5803.1	5805.0	5799.3	5837.7	5895.3	5899.1	5603.3	5336.3
20°	5870.3	5808.9	5720.5	5657.1	5743.5	5589.9	4996.3	4713.9	4669.8	4669.8	4677.4
22.5°	5728.2	5591.8	5597.6	5497.7	4689.0	4523.8	4527.6	4544.9	4466.1	4197.2	4168.4
25°	5534.2	5513.0	5092.4	4400.8	4406.6	4277.9	4080.0	3801.5	3499.9	3499.9	3450.0
27.5°	5388.2	4940.6	4325.9	4297.1	3864.9	3592.1	3423.1	3167.6	3133.0	3100.4	3104.2
30°	5263.3	4179.9	4195.3	3592.1	3273.2	3046.6	3033.1	2990.9	2969.7	2964.0	2942.8
32.5°	4160.7	4070.4	3511.4	3058.1	2933.2	2896.7	2879.5	2831.4	2829.5	2793.0	2539.5
35°	3901.4	3572.9	2939.0	2816.1	2779.6	2745.0	2716.2	1823.0	215.1	86.4	74.9
37.5°	3605.6	2985.1	2718.1	2662.4	2627.8	1942.0	194.0	67.2	48.0	34.6	30.7
40°	3056.2	2666.2	2581.7	2520.2	1039.2	67.2	42.3	32.7	19.2	17.3	15.4
42.5°	2577.9	2512.6	2422.3	737.6	76.8	32.7	21.1	15.4	13.4	13.4	11.5
45°	2412.7	2355.0	975.8	73.0	48.0	15.4	13.4	13.4	11.5	7.7	7.7
47.5°	2259.0	1988.2	88.4	46.1	30.7	13.4	11.5	7.7	7.7	7.7	5.8
50°	2095.7	109.5	61.5	34.6	19.2	7.7	7.7	7.7	7.7	5.8	5.8
52.5°	391.9	76.8	49.9	30.7	9.6	7.7	7.7	7.7	5.8	5.8	5.8
55°	92.2	61.5	46.1	26.9	7.7	7.7	7.7	5.8	5.8	5.8	3.8
57.5°	69.2	46.1	36.5	25.0	7.7	5.8	5.8	5.8	5.8	5.8	3.8
60°	57.6	32.7	28.8	23.1	5.8	5.8	5.8	5.8	5.8	5.8	3.8
62.5°	40.3	26.9	21.1	17.3	5.8	5.8	5.8	5.8	5.8	5.8	5.8
65°	32.7	21.1	17.3	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
67.5°	28.8	17.3	11.5	3.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
70°	23.1	5.8	5.8	3.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
72.5°	19.2	5.8	3.8	3.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
75°	19.2	9.6	3.8	3.8	5.8	5.8	7.7	7.7	5.8	5.8	5.8
77.5°	13.4	9.6	3.8	3.8	5.8	5.8	7.7	7.7	5.8	5.8	5.8
80°	7.7	9.6	3.8	5.8	5.8	11.5	13.4	7.7	5.8	5.8	5.8
82.5°	7.7	9.6	11.5	11.5	5.8	9.6	11.5	9.6	7.7	5.8	5.8
85°	7.7	5.8	7.7	9.6	5.8	9.6	9.6	7.7	7.7	5.8	5.8
87.5°	3.8	5.8	5.8	7.7	7.7	7.7	9.6	7.7	7.7	7.7	5.8
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5
2.5°	7032.5	7040.2	6919.2	6876.9	6913.4	6905.7	6873.1	6752.0	6738.6	6657.9	6540.7
5°	6721.3	6773.2	6709.8	6819.3	6767.4	6819.3	6976.8	7049.8	7168.9	7241.9	7268.8
7.5°	6504.2	6515.8	6515.8	6525.4	6535.0	6536.9	6525.4	6517.7	6485.0	6444.7	6517.7
10°	6241.1	6254.5	6277.6	6273.7	6271.8	6312.1	6321.7	6404.3	6400.5	6415.9	6471.6
12.5°	6104.7	6001.0	6095.1	6070.1	6104.7	6050.9	6150.8	6133.5	6139.3	6185.4	6304.5
15°	5878.0	5910.7	5933.7	5933.7	5947.2	5935.6	5924.1	6002.9	6050.9	6052.8	6045.1
17.5°	5442.0	5194.2	5447.7	5382.4	5903.0	5916.4	5872.3	5835.8	5835.8	5864.6	5926.0
20°	4671.7	4677.4	4679.4	4704.3	4735.1	4733.1	4735.1	5491.9	5851.1	5768.5	5712.8
22.5°	4095.4	4024.3	4156.9	4147.3	4312.5	4495.0	4669.8	4652.5	4664.0	5198.0	5678.2
25°	3282.9	3375.1	3300.1	3332.8	3519.1	3736.2	3870.7	4222.2	4604.4	4577.6	4702.4
27.5°	3090.8	3065.8	3100.4	3100.4	3125.3	3154.1	3229.1	3426.9	3766.9	4124.2	4462.3
30°	2908.3	2929.4	2933.2	2967.8	2987.0	3006.2	3017.8	3092.7	3169.5	3417.3	3834.2
32.5°	2184.1	1915.2	2520.2	2683.5	2821.8	2854.5	2877.5	2908.3	2964.0	3000.5	3209.9
35°	63.4	63.4	67.2	76.8	98.0	660.8	2516.4	2773.8	2810.3	2856.4	2894.8
37.5°	30.7	23.1	26.9	28.8	34.6	48.0	69.2	215.1	2395.4	2708.5	2750.8
40°	13.4	13.4	13.4	13.4	15.4	19.2	28.8	48.0	73.0	1926.7	2599.0
42.5°	11.5	11.5	11.5	11.5	11.5	11.5	13.4	17.3	34.6	82.6	1363.9
45°	7.7	7.7	5.8	7.7	7.7	9.6	11.5	11.5	15.4	51.9	94.1
47.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	9.6	11.5	34.6	49.9
50°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	26.9	34.6
52.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	11.5	30.7
55°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.8	5.8	7.7	26.9
57.5°	3.8	3.8	3.8	3.8	3.8	5.8	3.8	3.8	5.8	5.8	25.0
60°	3.8	3.8	3.8	3.8	3.8	5.8	5.8	5.8	5.8	5.8	23.1
62.5°	5.8	5.8	3.8	5.8	3.8	3.8	5.8	5.8	5.8	5.8	15.4
65°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	3.8	5.8
67.5°	5.8	5.8	5.8	5.8	3.8	5.8	3.8	5.8	5.8	3.8	3.8
70°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	3.8	3.8	3.8	3.8
72.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	3.8	3.8	3.8	3.8
75°	5.8	5.8	5.8	5.8	5.8	5.8	7.7	7.7	3.8	3.8	3.8
77.5°	5.8	5.8	5.8	5.8	5.8	5.8	9.6	11.5	9.6	9.6	3.8
80°	5.8	5.8	5.8	5.8	5.8	5.8	9.6	9.6	9.6	9.6	13.4
82.5°	5.8	5.8	5.8	5.8	5.8	5.8	7.7	7.7	7.7	7.7	9.6
85°	5.8	5.8	5.8	5.8	5.8	5.8	7.7	7.7	7.7	5.8	7.7
87.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	7.7	5.8	5.8	5.8
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5
2.5°	6550.3	6485.0	6463.9	6419.7	6415.9	6419.7	6410.1	6396.7	6404.3	6390.9	6379.4
5°	7284.1	7109.3	6996.0	6844.2	6634.9	6588.8	6577.2	6511.9	6488.9	6481.2	6450.4
7.5°	6690.6	7009.4	7201.5	7266.8	7021.0	6963.3	6896.1	6842.3	6790.5	6692.5	6632.9
10°	6427.4	6442.8	6627.2	6842.3	7191.9	7239.9	7276.4	7159.3	7126.6	6876.9	6823.1
12.5°	6365.9	6367.8	6389.0	6519.6	6794.3	6825.0	6953.7	7022.9	7107.4	7155.4	7117.0
15°	6085.5	6241.1	6356.3	6367.8	6392.8	6446.6	6485.0	6725.1	6826.9	7099.7	7084.4
17.5°	5954.9	6004.8	6171.9	6308.3	6285.2	6266.0	6296.8	6329.4	6427.4	6700.2	6696.3
20°	5737.8	5897.2	5987.5	6129.7	6258.4	6264.1	6229.5	6210.3	6171.9	6216.1	6256.4
22.5°	5645.6	5670.6	5839.6	5939.5	6085.5	6137.3	6145.0	6146.9	6125.8	6102.8	6091.2
25°	5636.0	5557.2	5643.7	5768.5	5876.1	5931.8	5995.2	6016.3	6008.6	6008.6	5997.1
27.5°	4612.1	5532.2	5486.1	5568.7	5699.4	5737.8	5770.4	5835.8	5876.1	5904.9	5918.4
30°	4393.1	4558.3	5363.2	5374.7	5507.3	5503.4	5539.9	5593.7	5645.6	5712.8	5730.1
32.5°	3886.0	4291.3	4909.9	5180.7	5319.0	5332.5	5351.7	5367.0	5415.1	5490.0	5555.3
35°	3113.8	3909.1	4206.8	5088.5	5113.5	5140.4	5151.9	5188.4	5203.8	5234.5	5292.1
37.5°	2818.0	3231.0	4035.9	4400.8	4877.2	4900.3	4961.7	4977.1	5002.1	5027.0	5071.2
40°	2647.0	2760.4	3359.7	3930.2	4687.0	4702.4	4723.5	4762.0	4763.9	4792.7	4833.0
42.5°	2510.6	2583.6	2758.4	3753.5	4552.6	4550.7	4500.7	4525.7	4537.2	4567.9	4623.7
45°	2005.4	2424.2	2535.6	3065.8	3624.8	3886.0	4387.4	4304.8	4302.9	4314.4	4373.9
47.5°	101.8	2280.1	2358.9	2529.9	3423.1	3432.7	3498.0	4047.4	4131.9	4105.0	4110.8
50°	69.2	157.5	2197.5	2276.3	2950.5	3188.7	3236.7	3261.7	3578.7	3932.1	3874.5
52.5°	53.8	90.3	1346.6	2113.0	2397.3	2572.1	2881.4	3058.1	3077.3	3219.5	3701.6
55°	48.0	69.2	146.0	1949.7	2038.1	2076.5	2257.1	2566.3	2816.1	2891.0	2896.7
57.5°	42.3	63.4	99.9	881.7	1853.7	1861.4	1892.1	1999.7	2224.4	2430.0	2662.4
60°	38.4	55.7	78.8	151.8	1684.6	1703.9	1709.6	1738.4	1765.3	1905.6	2172.6
62.5°	23.1	44.2	69.2	109.5	1333.1	1531.0	1529.1	1548.3	1573.2	1588.6	1642.4
65°	19.2	34.6	59.5	92.2	163.3	203.6	1237.1	1375.4	1390.7	1411.9	1421.5
67.5°	17.3	30.7	44.2	73.0	122.9	140.2	161.4	199.8	1091.1	1229.4	1248.6
70°	15.4	21.1	36.5	61.5	99.9	107.6	121.0	138.3	163.3	201.7	987.4
72.5°	9.6	15.4	25.0	44.2	76.8	86.4	94.1	105.7	117.2	140.2	161.4
75°	3.8	11.5	21.1	32.7	59.5	65.3	71.1	78.8	88.4	103.7	115.3
77.5°	3.8	9.6	17.3	23.1	38.4	44.2	51.9	57.6	65.3	73.0	84.5
80°	13.4	7.7	11.5	17.3	26.9	28.8	32.7	36.5	42.3	48.0	55.7
82.5°	9.6	11.5	13.4	11.5	13.4	17.3	19.2	23.1	25.0	28.8	30.7
85°	7.7	7.7	9.6	9.6	9.6	9.6	9.6	9.6	11.5	13.4	17.3
87.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	7.7	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-109SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5
2.5°	6379.4	6375.5	6364.0	6364.0	6362.1	6369.8	6375.5	6381.3	6379.4	6390.9	6379.4
5°	6427.4	6417.8	6400.5	6385.1	6379.4	6383.2	6377.5	6383.2	6375.5	6385.1	6367.8
7.5°	6559.9	6527.3	6460.1	6433.2	6398.6	6396.7	6379.4	6375.5	6364.0	6364.0	6342.9
10°	6794.3	6636.8	6617.6	6536.9	6508.1	6367.8	6398.6	6346.7	6341.0	6316.0	6306.4
12.5°	6986.4	6863.4	6826.9	6755.9	6675.2	6390.9	6454.3	6342.9	6337.1	6287.2	6235.3
15°	6990.2	7061.3	6961.4	6765.5	6748.2	6552.3	6423.6	6385.1	6335.2	6185.4	6210.3
17.5°	6765.5	6928.8	6976.8	6934.5	6811.6	6679.0	6498.5	6421.6	6271.8	6204.6	6158.5
20°	6400.5	6565.7	6771.2	6784.7	6861.5	6767.4	6531.1	6406.3	6225.7	6108.5	6070.1
22.5°	6110.4	6231.5	6467.7	6577.2	6671.4	6704.0	6554.2	6369.8	6145.0	6031.7	6008.6
25°	5956.8	5983.7	6054.7	6183.4	6390.9	6540.7	6561.9	6365.9	6248.8	6001.0	5870.3
27.5°	5901.1	5878.0	5849.2	5914.5	6070.1	6252.6	6373.6	6406.3	6114.3	5878.0	5747.4
30°	5758.9	5772.4	5728.2	5705.1	5806.9	5995.2	6210.3	6264.1	6039.4	5795.4	5645.6
32.5°	5584.1	5607.2	5614.8	5574.5	5553.4	5684.0	5916.4	6045.1	6033.6	5678.2	5511.1
35°	5365.1	5430.4	5447.7	5449.6	5415.1	5393.9	5528.4	5795.4	5897.2	5624.5	5382.4
37.5°	5134.6	5153.8	5248.0	5272.9	5272.9	5209.5	5309.4	5522.6	5664.8	5503.4	5224.9
40°	4846.5	4907.9	4996.3	5040.5	5084.7	5090.4	5034.7	5184.6	5418.9	5378.6	5077.0
42.5°	4637.1	4677.4	4731.2	4790.8	4881.1	4904.1	4846.5	4873.4	5117.3	5223.0	4884.9
45°	4393.1	4446.9	4462.3	4527.6	4621.7	4689.0	4687.0	4631.3	4827.3	4957.9	4744.7
47.5°	4143.4	4195.3	4222.2	4254.8	4324.0	4410.4	4458.5	4433.5	4471.9	4727.4	4558.3
50°	3886.0	3914.8	3968.6	4005.1	4051.2	4101.2	4216.4	4239.5	4185.7	4389.3	4352.8
52.5°	3642.1	3651.7	3688.2	3724.7	3786.1	3822.6	3914.8	3984.0	3980.1	4039.7	4124.2
55°	3451.9	3409.6	3417.3	3446.1	3486.5	3542.2	3594.0	3701.6	3738.1	3749.6	3884.1
57.5°	2697.0	3131.1	3169.5	3167.6	3215.6	3240.6	3288.6	3359.7	3490.3	3461.5	3611.3
60°	2451.1	2499.1	2862.2	2904.4	2921.7	2944.8	3002.4	3067.7	3163.8	3225.2	3290.5
62.5°	1869.1	2161.0	2270.5	2591.3	2641.3	2654.7	2693.1	2723.9	2823.8	2964.0	2937.1
65°	1446.5	1571.3	1905.6	2036.2	2308.9	2343.5	2397.3	2430.0	2458.8	2620.1	2627.8
67.5°	1250.5	1269.7	1360.0	1611.7	1784.5	2051.5	2084.2	2113.0	2157.2	2272.4	2343.5
70°	1068.0	1091.1	1116.1	1137.2	1361.9	1538.7	1786.5	1796.1	1824.9	1901.7	2063.1
72.5°	201.7	912.4	927.8	941.3	966.2	1083.4	1319.7	1511.8	1523.3	1559.8	1707.7
75°	136.4	159.4	219.0	753.0	778.0	785.7	826.0	1066.1	1242.8	1250.5	1315.8
77.5°	98.0	109.5	132.5	157.5	401.5	603.2	612.8	657.0	839.4	972.0	983.5
80°	67.2	74.9	88.4	99.9	122.9	161.4	445.7	459.1	482.2	664.6	699.2
82.5°	38.4	44.2	51.9	63.4	73.0	92.2	119.1	153.7	313.1	334.2	443.7
85°	19.2	21.1	25.0	30.7	36.5	44.2	59.5	73.0	99.9	180.6	186.3
87.5°	9.6	9.6	9.6	9.6	15.4	17.3	21.1	26.9	34.6	51.9	67.2
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-LD5-109SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5
2.5°	6381.3	6408.2	6431.2	6437.0	6437.0	6440.8	6446.6	6450.4	6454.3	6458.1	6454.3
5°	6369.8	6398.6	6417.8	6423.6	6423.6	6435.1	6444.7	6456.2	6462.0	6462.0	6458.1
7.5°	6341.0	6362.1	6387.1	6402.4	6404.3	6423.6	6440.8	6438.9	6446.6	6450.4	6460.1
10°	6302.5	6302.5	6344.8	6356.3	6365.9	6387.1	6392.8	6404.3	6431.2	6435.1	6460.1
12.5°	6283.3	6264.1	6314.1	6319.8	6352.5	6325.6	6360.2	6371.7	6344.8	6381.3	6333.3
15°	6196.9	6219.9	6212.3	6229.5	6287.2	6256.4	6350.6	6319.8	6389.0	6306.4	6452.4
17.5°	6125.8	6122.0	6152.7	6168.1	6179.6	6244.9	6269.9	6304.5	6331.4	6308.3	6365.9
20°	6073.9	6043.2	6066.3	6083.6	6123.9	6173.8	6189.2	6137.3	6227.6	6381.3	6417.8
22.5°	5976.0	5954.9	5981.7	5981.7	6043.2	6035.5	6093.2	6060.5	6145.0	6323.7	6510.0
25°	5843.4	5845.4	5874.2	5908.7	5920.3	6006.7	6037.5	6079.7	6185.4	6398.6	6511.9
27.5°	5709.0	5697.4	5714.7	5785.8	5845.4	5908.7	5918.4	6062.4	6206.5	6352.5	6452.4
30°	5574.5	5563.0	5574.5	5626.4	5697.4	5739.7	5845.4	6037.5	6171.9	6271.8	6365.9
32.5°	5430.4	5418.9	5445.8	5484.2	5609.1	5614.8	5824.2	6004.8	6110.4	6183.4	6166.2
35°	5276.8	5261.4	5286.4	5345.9	5461.2	5503.4	5722.4	5856.9	5976.0	6010.6	5929.9
37.5°	5092.4	5065.5	5096.2	5178.8	5299.8	5422.8	5605.2	5760.8	5824.2	5732.0	5636.0
40°	4900.3	4881.1	4934.8	4977.1	5119.3	5290.2	5499.6	5609.1	5568.7	5463.1	5357.4
42.5°	4729.3	4689.0	4737.0	4817.7	4979.0	5173.0	5342.1	5403.5	5307.5	5151.9	5029.0
45°	4519.9	4471.9	4529.5	4637.1	4810.0	5030.9	5163.4	5142.3	4979.0	4844.6	4675.5
47.5°	4300.9	4243.3	4300.9	4429.6	4623.7	4858.0	4954.1	4858.0	4652.5	4483.4	4347.0
50°	4085.8	4018.6	4074.3	4268.3	4458.5	4639.0	4637.1	4450.8	4327.8	4143.4	4024.3
52.5°	3872.6	3776.5	3832.2	4043.5	4233.7	4439.2	4287.5	4114.6	3966.7	3805.3	3766.9
55°	3609.4	3505.7	3580.6	3887.9	4033.9	4154.9	3912.9	3761.2	3615.2	3534.5	3486.5
57.5°	3359.7	3246.4	3311.7	3674.7	3782.3	3813.0	3590.2	3375.1	3288.6	3261.7	3192.6
60°	3102.3	2973.6	3035.1	3453.8	3528.7	3403.9	3184.9	3017.8	3000.5	2946.7	2892.9
62.5°	2856.4	2714.3	2752.7	3179.1	3213.7	2987.0	2785.3	2741.2	2698.9	2645.1	2616.3
65°	2574.0	2426.1	2479.9	2887.1	2854.5	2562.5	2449.2	2439.6	2383.9	2339.7	2381.9
67.5°	2314.7	2139.9	2214.8	2568.3	2420.4	2182.2	2136.1	2113.0	2068.8	2093.8	1650.1
70°	2030.4	1840.2	1942.0	2224.4	2005.4	1847.9	1830.6	1796.1	1798.0	1429.2	1204.4
72.5°	1713.5	1548.3	1696.2	1847.9	1586.7	1540.6	1515.6	1511.8	1219.8	991.2	935.5
75°	1434.9	1267.8	1427.2	1484.9	1264.0	1233.2	1231.3	1018.1	801.0	764.5	747.2
77.5°	1119.9	991.2	1142.9	1056.5	970.1	935.5	839.4	630.1	603.2	578.2	217.1
80°	754.9	764.5	852.9	728.0	691.5	589.7	464.9	445.7	384.2	153.7	121.0
82.5°	459.1	576.3	543.6	455.3	445.7	320.8	293.9	149.8	111.4	88.4	76.8
85°	238.2	292.0	280.5	247.8	184.4	165.2	92.2	71.1	57.6	44.2	36.5
87.5°	80.7	107.6	103.7	82.6	63.4	49.9	32.7	26.9	19.2	15.4	13.4
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-LD5-109SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5
2.5°	6450.4	6450.4	6446.6	6450.4	6452.4	6448.5	6448.5	6452.4	6454.3	6456.2	6465.8
5°	6460.1	6463.9	6469.7	6481.2	6483.1	6506.2	6515.8	6521.5	6527.3	6529.2	6515.8
7.5°	6481.2	6494.6	6506.2	6504.2	6490.8	6454.3	6442.8	6433.2	6450.4	6494.6	6546.5
10°	6500.4	6438.9	6323.7	6481.2	6433.2	6477.3	6608.0	6636.8	6725.1	6850.0	6886.5
12.5°	6367.8	6536.9	6573.4	6396.7	6723.2	6602.2	6746.3	6873.1	6909.5	7036.3	6959.5
15°	6510.0	6592.6	6648.3	6825.0	6805.8	6909.5	6949.9	6924.9	6930.7	6963.3	7049.8
17.5°	6508.1	6673.3	6709.8	6828.9	6909.5	6911.5	6899.9	6888.4	6919.2	6944.1	6892.3
20°	6619.5	6673.3	6744.3	6792.4	6807.7	6826.9	6863.4	6834.6	6777.0	6721.3	6698.2
22.5°	6563.8	6684.8	6746.3	6754.0	6744.3	6684.8	6631.0	6550.3	6523.4	6494.6	6504.2
25°	6575.3	6631.0	6623.3	6592.6	6552.3	6440.8	6414.0	6379.4	6327.5	6202.6	6089.3
27.5°	6492.7	6463.9	6429.3	6354.4	6281.4	6221.9	6154.6	6043.2	5951.0	5816.5	5766.6
30°	6354.4	6239.1	6154.6	6110.4	6039.4	5939.5	5837.7	5701.3	5584.1	5557.2	5532.2
32.5°	6089.3	5976.0	5906.8	5799.3	5678.2	5559.1	5442.0	5388.2	5363.2	5367.0	5344.0
35°	5818.5	5718.6	5614.8	5453.5	5363.2	5244.1	5201.9	5190.3	5167.3	5142.3	5115.4
37.5°	5530.3	5413.2	5257.6	5161.5	5071.2	5023.2	5002.1	4984.8	4944.4	4900.3	4869.5
40°	5251.8	5040.5	4954.1	4859.9	4833.0	4811.9	4781.2	4738.9	4683.2	4675.5	4662.1
42.5°	4879.1	4727.4	4652.5	4633.3	4600.6	4564.1	4537.2	4491.1	4468.1	4483.4	4495.0
45°	4525.7	4448.8	4423.9	4400.8	4339.4	4287.5	4270.2	4254.8	4274.0	4358.6	4156.9
47.5°	4239.5	4208.7	4178.0	4139.6	4082.0	4043.5	4060.8	4076.2	4093.5	3473.0	3169.5
50°	3991.7	3949.4	3901.4	3859.1	3824.6	3820.7	3911.0	3640.1	3048.5	3033.1	2725.8
52.5°	3720.8	3657.4	3628.6	3603.6	3619.0	3676.6	3042.7	2823.8	2708.5	2353.1	2195.6
55°	3428.8	3373.1	3373.1	3396.2	3313.6	2685.4	2652.8	2293.6	2076.5	2015.0	1990.1
57.5°	3136.9	3131.1	3163.8	2892.9	2437.6	2337.8	1965.1	1886.3	1851.8	1844.1	1803.7
60°	2869.9	2923.6	2447.3	2251.3	1957.4	1765.3	1711.5	1701.9	1665.4	1652.0	1615.5
62.5°	2656.6	2203.3	2051.5	1675.0	1577.1	1552.1	1523.3	1509.8	1477.2	1304.3	382.3
65°	1919.0	1813.3	1471.4	1408.0	1400.4	1363.9	1352.3	1215.9	286.2	192.1	163.3
67.5°	1448.4	1285.1	1240.9	1229.4	1192.9	1119.9	332.3	190.2	163.3	142.1	124.9
70°	1112.2	1083.4	1050.7	1023.9	301.6	188.3	163.3	138.3	119.1	105.7	96.0
72.5°	910.5	891.3	518.6	197.9	161.4	136.4	121.0	105.7	92.2	84.5	76.8
75°	712.7	197.9	163.3	136.4	117.2	99.9	88.4	78.8	71.1	65.3	59.5
77.5°	161.4	130.6	111.4	94.1	84.5	74.9	67.2	57.6	51.9	46.1	38.4
80°	99.9	86.4	73.0	67.2	57.6	48.0	42.3	38.4	30.7	28.8	25.0
82.5°	65.3	51.9	46.1	38.4	30.7	28.8	25.0	19.2	17.3	15.4	13.4
85°	28.8	25.0	21.1	17.3	13.4	11.5	9.6	7.7	7.7	7.7	7.7
87.5°	9.6	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	3.8	3.8
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5
2.5°	6469.7	6504.2	6536.9	6527.3	6492.7	6438.9	6423.6	6402.4	6417.8	6450.4	6463.9
5°	6515.8	6496.5	6565.7	6667.5	6832.7	6848.1	6963.3	6990.2	7082.4	7140.1	7138.1
7.5°	6581.1	6853.8	6967.2	7090.1	7145.8	7132.4	7149.7	7136.2	7115.1	7105.5	7094.0
10°	6913.4	7120.8	7163.1	7163.1	7076.7	6959.5	6909.5	6823.1	6650.2	6654.1	6625.3
12.5°	7107.4	7180.4	7080.5	6996.0	6648.3	6513.8	6367.8	6298.7	6258.4	6196.9	6219.9
15°	7005.6	6901.9	6842.3	6569.5	6356.3	6114.3	6118.1	6075.9	6031.7	6035.5	6006.7
17.5°	6855.8	6773.2	6350.6	6162.3	6058.6	5964.5	5947.2	5891.5	5862.6	5853.0	5851.1
20°	6650.2	6352.5	6037.5	5991.3	5866.5	5758.9	5741.6	5758.9	5847.3	5689.8	5155.7
22.5°	6410.1	5981.7	5889.5	5758.9	5674.4	5632.1	5737.8	5257.6	4531.4	4619.8	4525.7
25°	6002.9	5816.5	5659.0	5559.1	5549.5	5290.2	4408.5	4316.3	3849.5	3599.8	3319.3
27.5°	5705.1	5624.5	5459.3	5442.0	5317.1	4325.9	3866.8	3359.7	3173.4	3144.5	3083.1
30°	5524.6	5409.3	5309.4	4873.4	4243.3	3482.6	3102.3	3031.2	2998.6	2964.0	2910.2
32.5°	5307.5	5198.0	5246.0	4097.3	3382.7	2998.6	2921.7	2869.9	2810.3	2787.3	2593.2
35°	5086.6	5036.7	4099.2	3444.2	2908.3	2816.1	2758.4	2704.7	2151.4	520.6	176.7
37.5°	4850.3	4838.8	3684.3	2858.3	2723.9	2637.4	2474.1	511.0	121.0	82.6	61.5
40°	4665.9	3686.2	2912.1	2679.7	2570.2	2433.8	341.9	84.5	53.8	32.7	21.1
42.5°	4543.0	3315.5	2606.7	2514.5	2276.3	251.6	86.4	36.5	21.1	17.3	13.4
45°	3501.8	2618.2	2435.7	2339.7	288.1	86.4	49.9	17.3	13.4	11.5	7.7
47.5°	3231.0	2378.1	2270.5	511.0	96.0	46.1	34.6	11.5	7.7	7.7	7.7
50°	2447.3	2197.5	1807.6	124.9	61.5	32.7	25.0	7.7	7.7	7.7	5.8
52.5°	2145.7	2028.5	194.0	82.6	48.0	25.0	15.4	5.8	5.8	5.8	5.8
55°	1961.3	1287.0	115.3	63.4	40.3	23.1	9.6	5.8	5.8	5.8	3.8
57.5°	1794.1	172.9	84.5	53.8	36.5	21.1	5.8	5.8	5.8	5.8	3.8
60°	1521.4	124.9	69.2	48.0	34.6	19.2	5.8	5.8	5.8	5.8	5.8
62.5°	197.9	98.0	59.5	42.3	25.0	15.4	3.8	5.8	5.8	5.8	5.8
65°	144.1	76.8	53.8	28.8	15.4	5.8	3.8	5.8	5.8	5.8	5.8
67.5°	111.4	63.4	40.3	25.0	13.4	3.8	3.8	5.8	5.8	5.8	5.8
70°	88.4	53.8	32.7	21.1	11.5	3.8	3.8	5.8	5.8	5.8	5.8
72.5°	69.2	38.4	23.1	11.5	7.7	3.8	3.8	5.8	5.8	5.8	5.8
75°	51.9	30.7	17.3	9.6	3.8	3.8	3.8	5.8	5.8	5.8	5.8
77.5°	34.6	19.2	13.4	7.7	7.7	7.7	9.6	9.6	5.8	5.8	5.8
80°	23.1	13.4	9.6	9.6	9.6	7.7	9.6	9.6	5.8	9.6	5.8
82.5°	11.5	9.6	9.6	7.7	7.7	5.8	7.7	7.7	7.7	7.7	5.8
85°	7.7	5.8	5.8	5.8	5.8	5.8	5.8	5.8	7.7	7.7	5.8
87.5°	3.8	3.8	3.8	3.8	5.8	5.8	5.8	5.8	7.7	7.7	5.8
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5
2.5°	6446.6	6452.4	6437.0	6519.6	6477.3	6481.2	6498.5	6454.3	6463.9	6433.2	6412.0
5°	7145.8	7157.3	7168.9	7172.7	7180.4	7190.0	7178.5	7172.7	7161.2	7122.8	7082.4
7.5°	7036.3	7022.9	7017.1	7024.8	7038.2	7044.0	7034.4	7047.9	7097.8	7118.9	7132.4
10°	6460.1	6398.6	6440.8	6435.1	6387.1	6548.4	6504.2	6529.2	6546.5	6723.2	6830.8
12.5°	6185.4	6223.8	6150.8	6114.3	6162.3	6195.0	6227.6	6158.5	6254.5	6210.3	6352.5
15°	5954.9	5931.8	5924.1	5926.0	5916.4	5962.5	5974.1	5989.4	6002.9	6062.4	6085.5
17.5°	5851.1	5889.5	5904.9	5916.4	5897.2	5876.1	5855.0	5824.2	5833.8	5818.5	5862.6
20°	4796.5	4667.8	4660.2	4735.1	4652.5	4698.6	4810.0	5555.3	5530.3	5820.4	5722.4
22.5°	4003.2	3882.2	3778.4	3688.2	3816.9	3870.7	4078.1	4312.5	4692.8	4633.3	5046.3
25°	3269.4	3225.2	3198.3	3184.9	3194.5	3190.6	3236.7	3346.2	3519.1	3926.4	4452.7
27.5°	3058.1	3037.0	3027.4	2996.6	3019.7	3012.0	3048.5	3071.6	3123.4	3163.8	3334.7
30°	2891.0	2866.0	2848.7	2816.1	2839.1	2841.0	2852.6	2912.1	2933.2	2967.8	3021.6
32.5°	1056.5	622.4	584.0	555.1	607.0	791.4	1388.8	2428.0	2770.0	2796.9	2858.3
35°	103.7	86.4	76.8	76.8	78.8	86.4	115.3	303.5	555.1	2145.7	2685.4
37.5°	40.3	34.6	28.8	26.9	28.8	32.7	44.2	57.6	78.8	163.3	728.0
40°	17.3	15.4	13.4	13.4	13.4	13.4	15.4	19.2	28.8	53.8	84.5
42.5°	11.5	9.6	9.6	9.6	9.6	9.6	9.6	9.6	13.4	17.3	34.6
45°	7.7	5.8	5.8	5.8	5.8	5.8	5.8	5.8	7.7	9.6	15.4
47.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	7.7
50°	5.8	5.8	5.8	5.8	3.8	5.8	3.8	5.8	5.8	5.8	5.8
52.5°	5.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.8	5.8
55°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.8
57.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
60°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
62.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.8	5.8	3.8
65°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.8	3.8
67.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
70°	5.8	5.8	3.8	5.8	3.8	3.8	5.8	5.8	5.8	3.8	3.8
72.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	11.5	11.5	7.7
75°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	9.6	11.5	9.6
77.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	9.6	9.6	9.6
80°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	7.7	7.7	7.7
82.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	7.7	7.7	7.7
85°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
87.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5
2.5°	6375.5	6373.6	6414.0	6444.7	6433.2	6444.7	6458.1	6460.1	6463.9	6448.5	6442.8
5°	7005.6	6946.0	6830.8	6748.2	6652.1	6477.3	6390.9	6400.5	6402.4	6396.7	6404.3
7.5°	7126.6	7120.8	7080.5	7063.2	6997.9	6873.1	6673.3	6638.7	6554.2	6500.4	6456.2
10°	6823.1	6961.4	6997.9	7059.4	7097.8	7074.7	6905.7	6880.7	6826.9	6765.5	6778.9
12.5°	6494.6	6608.0	6613.7	6948.0	7022.9	7030.6	6965.3	6999.8	7007.5	6869.2	6788.5
15°	6091.2	6145.0	6258.4	6569.5	6796.2	6938.4	6980.6	6999.8	6905.7	6899.9	6867.3
17.5°	5914.5	5949.1	6001.0	6175.8	6519.6	6729.0	6907.6	6894.2	6930.7	6903.8	6821.2
20°	5691.7	5720.5	5812.7	5901.1	6070.1	6348.6	6682.9	6707.9	6755.9	6750.1	6773.2
22.5°	5687.8	5586.0	5601.4	5670.6	5847.3	6097.0	6452.4	6535.0	6565.7	6586.8	6611.8
25°	4512.2	5320.9	5468.9	5513.0	5628.3	5774.3	6193.0	6223.8	6281.4	6375.5	6444.7
27.5°	3909.1	4458.5	5050.1	5357.4	5430.4	5551.5	5801.2	5847.3	6043.2	6066.3	6173.8
30°	3085.0	3509.5	4393.1	5132.7	5253.7	5338.2	5515.0	5607.2	5691.7	5783.9	5897.2
32.5°	2902.5	2969.7	3459.6	4247.2	5188.4	5125.0	5255.6	5311.3	5403.5	5484.2	5566.8
35°	2735.4	2781.5	2885.2	3478.8	4226.0	4950.2	5038.6	5075.1	5126.9	5188.4	5248.0
37.5°	2560.6	2629.7	2700.8	2860.2	3909.1	4811.9	4810.0	4852.2	4883.0	4934.8	4984.8
40°	464.9	2414.6	2529.9	2633.6	3031.2	3838.0	4594.8	4614.0	4635.2	4667.8	4719.7
42.5°	74.9	403.4	2370.4	2470.3	2583.6	3436.5	4496.9	4418.1	4404.7	4427.7	4473.8
45°	38.4	98.0	476.4	2307.0	2408.8	2741.2	3676.6	4281.7	4268.3	4224.1	4233.7
47.5°	28.8	61.5	117.2	797.2	2255.2	2353.1	3392.3	3355.8	3611.3	4101.2	4026.2
50°	25.0	42.3	69.2	163.3	1992.0	2166.8	2612.5	3052.3	3186.8	3204.1	3791.9
52.5°	23.1	28.8	49.9	105.7	418.8	2003.5	2124.5	2278.2	2504.9	2990.9	2979.3
55°	21.1	26.9	42.3	71.1	146.0	1805.7	1930.5	1959.3	2007.4	2239.8	2547.1
57.5°	11.5	25.0	40.3	61.5	109.5	330.4	1751.9	1774.9	1813.3	1823.0	1932.4
60°	5.8	23.1	36.5	53.8	80.7	153.7	1575.2	1602.0	1625.1	1628.9	1663.5
62.5°	3.8	21.1	30.7	49.9	67.2	109.5	372.7	760.7	1446.5	1446.5	1486.8
65°	3.8	15.4	19.2	32.7	61.5	90.3	157.5	182.5	355.4	874.0	1304.3
67.5°	3.8	5.8	17.3	26.9	46.1	69.2	115.3	134.5	161.4	184.4	341.9
70°	3.8	3.8	15.4	17.3	28.8	51.9	82.6	94.1	109.5	124.9	144.1
72.5°	3.8	3.8	13.4	13.4	19.2	34.6	63.4	69.2	78.8	88.4	101.8
75°	9.6	7.7	11.5	11.5	13.4	26.9	48.0	53.8	57.6	65.3	74.9
77.5°	9.6	9.6	9.6	9.6	9.6	17.3	30.7	34.6	40.3	44.2	51.9
80°	7.7	7.7	7.7	9.6	9.6	11.5	19.2	21.1	23.1	28.8	30.7
82.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	11.5	13.4	17.3
85°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	7.7	7.7	7.7	7.7
87.5°	5.8	5.8	5.8	3.8	3.8	5.8	5.8	5.8	5.8	5.8	5.8
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5	6400.5
2.5°	6440.8	6429.3	6419.7	6425.5	6408.2	6400.5	6406.3	6408.2	6412.0	6421.6	6423.6
5°	6423.6	6419.7	6437.0	6446.6	6442.8	6446.6	6446.6	6438.9	6427.4	6435.1	6417.8
7.5°	6412.0	6387.1	6367.8	6371.7	6352.5	6375.5	6396.7	6427.4	6437.0	6437.0	6417.8
10°	6609.9	6583.0	6475.4	6402.4	6354.4	6312.1	6412.0	6310.2	6358.2	6175.8	6385.1
12.5°	6773.2	6809.7	6761.6	6561.9	6527.3	6400.5	6473.5	6348.6	6312.1	6102.8	6170.0
15°	6838.5	6769.3	6754.0	6698.2	6623.3	6586.8	6390.9	6369.8	6310.2	6333.3	6244.9
17.5°	6780.8	6815.4	6769.3	6732.8	6656.0	6569.5	6452.4	6348.6	6266.0	6081.6	6237.2
20°	6725.1	6771.2	6632.9	6656.0	6663.7	6563.8	6502.3	6415.9	6312.1	6139.3	6004.8
22.5°	6632.9	6600.3	6611.8	6577.2	6548.4	6561.9	6477.3	6417.8	6243.0	6164.2	5981.7
25°	6483.1	6471.6	6502.3	6498.5	6429.3	6406.3	6364.0	6300.6	6231.5	6104.7	5954.9
27.5°	6239.1	6298.7	6352.5	6377.5	6341.0	6279.5	6256.4	6219.9	6171.9	6043.2	5931.8
30°	5981.7	6049.0	6110.4	6164.2	6196.9	6170.0	6148.9	6127.7	6054.7	5970.2	5845.4
32.5°	5687.8	5776.2	5860.7	5926.0	5997.1	6018.2	6002.9	5985.6	5924.1	5847.3	5747.4
35°	5347.8	5468.9	5591.8	5709.0	5739.7	5789.7	5839.6	5810.8	5778.1	5701.3	5609.1
37.5°	5059.7	5146.1	5234.5	5382.4	5490.0	5553.4	5641.7	5653.3	5597.6	5561.1	5440.0
40°	4762.0	4840.7	4969.4	5055.9	5203.8	5276.8	5370.9	5413.2	5399.7	5378.6	5272.9
42.5°	4527.6	4566.0	4650.5	4727.4	4873.4	5023.2	5105.8	5151.9	5199.9	5182.6	5128.9
45°	4277.9	4312.5	4341.3	4408.5	4550.7	4683.2	4785.0	4854.2	4940.6	4980.9	4915.6
47.5°	4030.1	4039.7	4074.3	4130.0	4214.5	4316.3	4487.3	4591.0	4671.7	4750.4	4708.2
50°	3839.9	3805.3	3811.1	3845.7	3914.8	4014.7	4137.7	4283.7	4375.9	4471.9	4481.5
52.5°	3355.8	3636.3	3569.1	3588.3	3624.8	3672.8	3801.5	3945.6	4058.9	4141.5	4224.1
55°	2816.1	2871.8	3411.6	3334.7	3357.8	3400.0	3459.6	3603.6	3713.1	3828.4	3943.6
57.5°	2184.1	2599.0	2620.1	3119.6	3108.0	3111.9	3161.8	3244.4	3353.9	3498.0	3596.0
60°	1698.1	1872.9	2212.9	2385.8	2823.8	2839.1	2867.9	2916.0	3010.1	3146.5	3302.1
62.5°	1498.3	1521.4	1642.4	1901.7	2186.0	2529.9	2591.3	2599.0	2641.3	2777.6	2958.2
65°	1315.8	1331.2	1367.7	1394.6	1632.8	1965.1	2260.9	2308.9	2335.8	2416.5	2570.2
67.5°	906.7	1146.8	1179.4	1198.7	1221.7	1375.4	1742.3	1986.2	2017.0	2088.0	2222.5
70°	174.8	363.1	993.1	1014.2	1025.8	1060.3	1119.9	1507.9	1711.5	1778.8	1840.2
72.5°	119.1	140.2	169.0	399.6	845.2	864.4	877.9	927.8	1271.6	1467.6	1500.2
75°	86.4	96.0	113.3	140.2	172.9	562.8	697.3	722.3	747.2	1031.5	1196.7
77.5°	61.5	69.2	76.8	90.3	105.7	136.4	195.9	539.8	564.8	578.2	816.4
80°	34.6	42.3	51.9	59.5	67.2	76.8	99.9	124.9	278.5	407.2	428.4
82.5°	19.2	23.1	26.9	32.7	36.5	46.1	55.7	67.2	88.4	130.6	276.6
85°	9.6	9.6	9.6	13.4	15.4	21.1	25.0	28.8	40.3	55.7	76.8
87.5°	5.8	5.8	7.7	7.7	7.7	9.6	9.6	9.6	11.5	17.3	25.0
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-LD5-109SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	6400.5	6400.5	6400.5	6400.5	6400.5
2.5°	6425.5	6419.7	6419.7	6442.8	6437.0
5°	6414.0	6408.2	6406.3	6431.2	6419.7
7.5°	6404.3	6383.2	6377.5	6400.5	6390.9
10°	6365.9	6350.6	6360.2	6352.5	6348.6
12.5°	6300.6	6291.0	6250.7	6254.5	6287.2
15°	6183.4	6221.9	6152.7	6214.2	6227.6
17.5°	5968.3	6054.7	6122.0	6158.5	6164.2
20°	6064.3	6093.2	6058.6	6060.5	6083.6
22.5°	5939.5	5952.9	5962.5	5951.0	6001.0
25°	5739.7	5687.8	5799.3	5822.3	5903.0
27.5°	5678.2	5636.0	5687.8	5684.0	5751.2
30°	5628.3	5491.9	5515.0	5551.5	5634.1
32.5°	5557.2	5342.1	5319.0	5399.7	5491.9
35°	5432.4	5228.7	5175.0	5226.8	5365.1
37.5°	5326.7	5071.2	4963.7	5032.8	5213.4
40°	5169.2	4948.3	4781.2	4842.6	5055.9
42.5°	4980.9	4842.6	4585.2	4627.5	4871.5
45°	4790.8	4667.8	4395.1	4416.2	4706.3
47.5°	4596.8	4483.4	4197.2	4201.1	4495.0
50°	4406.6	4256.8	4020.5	3953.3	4270.2
52.5°	4158.8	4020.5	3841.8	3732.3	4057.0
55°	3924.4	3768.8	3638.2	3469.2	3814.9
57.5°	3695.8	3523.0	3434.6	3217.5	3540.3
60°	3382.7	3300.1	3169.5	2962.1	3292.5
62.5°	3061.9	3035.1	2902.5	2687.4	2987.0
65°	2687.4	2750.8	2614.4	2430.0	2670.1
67.5°	2333.9	2447.3	2297.4	2184.1	2364.7
70°	1957.4	2088.0	2003.5	1963.2	2040.0
72.5°	1586.7	1713.5	1721.1	1692.3	1717.3
75°	1225.5	1365.8	1442.6	1398.4	1404.2
77.5°	929.7	997.0	1081.5	1116.1	1108.4
80°	574.4	691.5	760.7	831.8	806.8
82.5°	290.1	388.0	472.5	549.4	512.9
85°	121.0	155.6	217.1	286.2	274.7
87.5°	36.5	61.5	65.3	92.2	86.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)