

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-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33524)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-109SL-RM-UNV-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

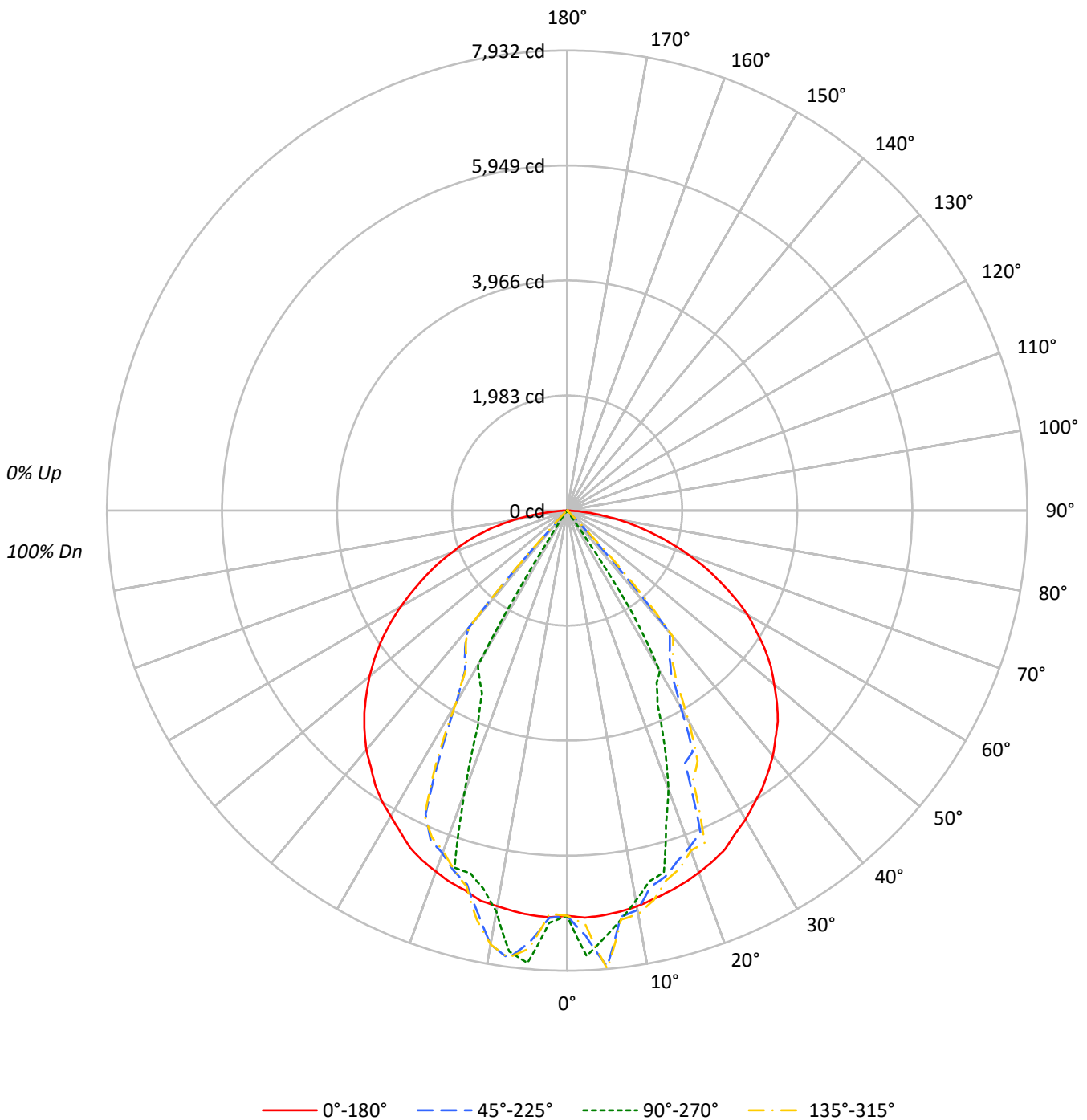
Lumens per Lamp: N/A
Luminaire Lumens: 9931.0 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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#
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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65					65			
5	85	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45					45			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	28220	28220	28220	28220
5°	28374	29024	28365	30736
10°	28345	26263	28328	27022
15°	28308	24514	28238	24578
20°	28383	19308	28302	19546
25°	28509	13973	28370	13186
30°	28427	12258	28127	11783
35°	28565	270	28145	327
40°	28722	59	28035	59
45°	28894	35	27808	26
50°	28754	27	27435	27
55°	28685	19	26922	19
60°	28268	21	26058	21
65°	26953	33	25033	22
70°	25216	37	24005	37
75°	22603	41	22973	41
80°	18818	47	19893	47
85°	11789	55	12036	55



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	700.7	7.1
10°-20°	1911.3	19.2
20°-30°	2432.1	24.5
30°-40°	2054.5	20.7
40°-50°	1343.2	13.5
50°-60°	846.3	8.5
60°-70°	450.5	4.5
70°-80°	164.3	1.7
80°-90°	28.3	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°	5044.1	50.8
0°-40°	7098.5	71.5
0°-60°	9288.0	93.5
0°-90°	9931.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9931.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6984	6984	6984	6984	6984	
5°	7005	7391	7003	7827	7005	666
15°	6796	6450	6779	6466	6796	1921
25°	6441	3683	6410	3475	6441	2962
35°	5854	69	5768	84	5854	3662
45°	5136	8	4943	6	5136	3949
55°	4163	4	3907	4	4163	3709
65°	2914	6	2706	4	2914	2886
75°	1532	6	1557	6	1532	1626
85°	300	6	306	6	300	379
90°	0	0	0	0	0	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2
2.5°	7024.0	7028.2	7030.3	7034.5	7040.8	7042.9	7047.1	7042.9	7042.9	7042.9	7042.9
5°	7005.2	7013.6	7019.9	7028.2	7042.9	7045.0	7061.8	7063.9	7072.3	7089.0	7101.6
7.5°	6973.7	6982.1	6994.7	7015.7	7036.6	7059.7	7089.0	7120.5	7164.5	7206.4	7258.8
10°	6927.6	6938.1	6952.8	6971.6	7074.4	7089.0	7154.0	7244.1	7269.3	7401.3	7499.9
12.5°	6860.6	6896.2	6933.9	6950.7	7049.2	7204.3	7422.3	7378.3	7330.1	7761.9	7755.6
15°	6795.6	6843.8	6824.9	6961.2	7051.3	7321.7	7229.5	7426.5	7787.0	7699.0	7703.2
17.5°	6726.4	6736.9	6841.7	6954.9	7116.3	7254.6	7367.8	7638.2	7709.5	7715.8	7638.2
20°	6638.4	6688.7	6841.7	6944.4	7216.9	7281.9	7527.1	7665.5	7636.1	7564.8	7432.8
22.5°	6548.2	6701.2	6856.4	7001.0	7191.7	7365.7	7487.3	7552.3	7399.3	7118.4	6967.5
25°	6441.3	6531.5	6734.8	6946.5	7185.4	7286.1	7357.3	7252.5	7053.4	6801.9	6548.2
27.5°	6275.7	6420.4	6680.3	6919.2	7135.1	7256.7	7141.4	6889.9	6569.2	6403.6	6288.3
30°	6147.9	6336.5	6550.3	6780.9	7005.2	7076.5	6783.0	6495.8	6275.7	6110.1	6085.0
32.5°	5992.8	6261.1	6464.4	6684.5	6873.1	6778.8	6493.7	6122.7	5940.4	5877.5	5902.6
35°	5854.4	6057.7	6323.9	6539.8	6676.1	6464.4	6013.7	5783.2	5695.1	5730.8	5684.6
37.5°	5688.8	5957.1	6202.4	6388.9	6342.8	6024.2	5642.7	5496.0	5506.5	5477.1	5389.1
40°	5516.9	5772.7	6028.4	6204.5	6043.1	5556.8	5303.1	5271.7	5278.0	5183.7	5057.9
42.5°	5315.7	5548.4	5804.1	5963.4	5615.5	5236.1	5064.2	5068.4	5013.9	4881.8	4814.8
45°	5135.5	5349.3	5615.5	5630.1	5202.5	4886.0	4835.7	4781.2	4659.6	4615.6	4565.3
47.5°	4904.9	5141.7	5361.8	5282.2	4798.0	4601.0	4563.2	4443.7	4383.0	4349.4	4307.5
50°	4659.6	4898.6	5099.8	4873.4	4416.5	4370.4	4246.7	4152.4	4110.5	4074.8	4037.1
52.5°	4427.0	4624.0	4829.4	4439.6	4123.0	4079.0	3938.6	3884.1	3842.2	3802.3	3794.0
55°	4162.9	4336.8	4477.3	4026.6	3842.2	3739.5	3638.8	3601.1	3561.3	3542.4	3573.9
57.5°	3863.1	4060.2	4039.2	3620.0	3538.2	3389.4	3351.7	3326.5	3297.2	3309.7	3047.7
60°	3592.7	3743.6	3640.9	3322.3	3184.0	3083.4	3049.8	3033.1	3049.8	2794.1	2456.6
62.5°	3259.4	3429.2	3221.7	2974.4	2827.6	2779.4	2750.1	2773.1	2527.9	2247.0	2165.3
65°	2913.6	3098.0	2792.0	2601.3	2509.0	2467.1	2465.0	2270.1	2029.0	1920.0	1920.0
67.5°	2580.3	2771.1	2377.0	2217.7	2182.0	2186.2	2064.7	1769.1	1702.0	1628.7	1417.0
70°	2226.1	2393.8	1964.1	1867.6	1846.7	1832.0	1536.4	1456.8	1377.1	1182.2	1165.4
72.5°	1873.9	1955.7	1578.4	1555.3	1551.1	1289.1	1230.4	1094.2	1001.9	978.9	968.4
75°	1532.3	1507.1	1247.2	1268.1	1069.0	976.8	882.5	802.8	790.2	781.8	194.9
77.5°	1209.5	1083.7	983.1	855.2	765.1	649.8	630.9	618.4	406.6	146.7	119.5
80°	880.4	702.2	654.0	555.5	473.7	454.9	465.3	142.5	113.2	94.3	81.7
82.5°	559.7	448.6	366.8	320.7	312.3	136.2	100.6	81.7	71.3	60.8	50.3
85°	299.7	199.1	184.5	155.1	92.2	62.9	52.4	39.8	33.5	27.2	25.2
87.5°	94.3	79.7	65.0	52.4	31.4	21.0	16.8	14.7	12.6	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2
2.5°	7038.7	7042.9	7040.8	7047.1	7047.1	7055.5	7061.8	7068.1	7080.6	7086.9	7135.1
5°	7128.9	7139.3	7170.8	7200.1	7235.8	7246.2	7307.0	7321.7	7393.0	7401.3	7636.1
7.5°	7330.1	7369.9	7445.4	7520.8	7596.3	7644.5	7728.3	7780.7	7837.3	7887.6	8074.2
10°	7573.2	7640.3	7713.7	7789.1	7833.1	7925.4	7975.7	7984.1	7969.4	7887.6	7585.8
12.5°	7812.2	7879.3	7847.8	7862.5	7914.9	7751.4	7774.5	7657.1	7738.8	7334.3	7034.5
15°	7778.6	7774.5	7696.9	7445.4	7487.3	7175.0	7049.2	6952.8	7030.3	6988.4	6942.3
17.5°	7678.0	7487.3	7353.1	7051.3	6923.4	6835.4	6837.5	6839.6	6801.9	6841.7	6724.3
20°	7252.5	7038.7	6839.6	6732.7	6695.0	6632.1	6663.5	6632.1	6634.2	6646.7	6466.5
22.5°	6686.6	6621.6	6506.3	6539.8	6527.3	6583.9	6541.9	6477.0	6497.9	6403.6	6267.4
25°	6458.1	6382.6	6378.4	6391.0	6372.2	6347.0	6309.3	6210.8	6204.5	6175.1	6112.2
27.5°	6227.5	6231.7	6244.3	6206.6	6139.5	6089.2	6032.6	5984.4	6003.2	5969.7	5883.8
30°	6068.2	6066.1	5990.7	5957.1	5833.5	5835.6	5820.9	5791.5	5772.7	5774.8	5720.3
32.5°	5841.8	5776.9	5690.9	5649.0	5638.5	5600.8	5571.4	5577.7	5592.4	5540.0	5596.6
35°	5609.2	5475.0	5462.4	5426.8	5393.3	5368.1	5378.6	5336.7	5334.6	5328.3	4867.2
37.5°	5296.9	5231.9	5225.6	5187.9	5164.8	5158.5	5118.7	5125.0	5143.8	5177.4	4150.3
40°	5039.0	4980.3	4965.7	4963.6	4913.3	4909.1	4919.6	4959.4	4986.6	4777.0	3955.4
42.5°	4762.4	4766.5	4720.4	4691.1	4697.4	4716.2	4766.5	4628.2	4009.8	3821.2	3615.8
45°	4525.5	4504.5	4479.4	4471.0	4525.5	4487.8	3934.4	3630.5	3557.1	3548.7	2972.3
47.5°	4278.2	4271.9	4261.4	4267.7	3957.4	3527.7	3402.0	3362.2	3374.7	3366.3	2553.1
50°	4028.7	4037.1	4037.1	3525.6	3236.4	3165.1	3175.6	3211.2	2989.0	2789.9	2379.1
52.5°	3812.8	3747.8	3211.2	3026.8	2961.8	2993.2	2917.8	2639.0	2437.8	2320.4	2200.9
55°	3412.5	2934.5	2815.1	2785.7	2808.8	2530.0	2358.1	2177.9	2125.5	2112.9	2043.7
57.5°	2685.1	2588.7	2599.2	2481.8	2215.6	2058.4	1989.2	1964.1	1941.0	1924.2	167.7
60°	2374.9	2402.1	2198.8	1947.3	1840.4	1819.4	1802.7	1779.6	1775.4	1746.1	106.9
62.5°	2173.7	1911.6	1735.6	1672.7	1647.5	1641.3	1609.8	1599.3	1358.3	186.6	79.7
65°	1639.2	1532.3	1498.7	1484.0	1456.8	1456.8	1209.5	190.7	155.1	134.2	71.3
67.5°	1337.3	1328.9	1312.2	1293.3	880.4	184.5	161.4	140.4	121.6	106.9	62.9
70°	1131.9	1127.7	1027.1	188.6	157.2	138.3	121.6	109.0	100.6	90.1	56.6
72.5°	928.6	188.6	159.3	138.3	119.5	109.0	98.5	88.0	79.7	73.4	46.1
75°	144.6	127.9	113.2	102.7	94.3	83.8	75.5	69.2	67.1	58.7	31.4
77.5°	104.8	90.1	81.7	73.4	65.0	58.7	50.3	44.0	39.8	33.5	23.1
80°	73.4	65.0	58.7	48.2	41.9	35.6	31.4	27.2	25.2	21.0	10.5
82.5°	41.9	35.6	31.4	25.2	23.1	18.9	16.8	14.7	14.7	10.5	10.5
85°	18.9	18.9	14.7	12.6	10.5	10.5	10.5	8.4	8.4	6.3	6.3
87.5°	8.4	8.4	8.4	8.4	8.4	6.3	6.3	6.3	6.3	6.3	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



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CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2
2.5°	7202.2	7229.5	7281.9	7336.4	7275.6	7493.6	7476.8	7550.2	7590.0	7608.9	7652.9
5°	7843.6	7965.2	8005.0	7885.5	7816.4	7745.1	7583.7	7462.1	7476.8	7437.0	7292.3
7.5°	7831.0	7571.1	7221.1	7061.8	7049.2	7030.3	7080.6	7110.0	7114.2	7112.1	7107.9
10°	7168.7	7034.5	7011.5	6990.5	6998.9	6921.3	6885.7	6785.1	6839.6	6810.2	6820.7
12.5°	6967.5	6936.0	6812.3	6640.5	6743.2	6665.6	6621.6	6650.9	6617.4	6586.0	6575.5
15°	6848.0	6644.7	6575.5	6533.6	6504.2	6487.4	6502.1	6468.6	6458.1	6451.8	6466.5
17.5°	6600.6	6518.9	6443.4	6332.3	6334.4	6328.1	6370.1	6432.9	6437.1	6114.3	5823.0
20°	6405.7	6338.6	6242.2	6173.0	6267.4	6099.7	5452.0	5143.8	5095.6	5095.6	5104.0
22.5°	6250.6	6101.8	6108.1	5999.1	5116.6	4936.3	4940.5	4959.4	4873.4	4580.0	4548.5
25°	6038.9	6015.8	5556.8	4802.2	4808.5	4668.0	4452.1	4148.2	3819.1	3819.1	3764.6
27.5°	5879.6	5391.2	4720.4	4689.0	4217.4	3919.7	3735.3	3456.5	3418.7	3383.1	3387.3
30°	5743.3	4561.1	4577.9	3919.7	3571.8	3324.4	3309.7	3263.6	3240.6	3234.3	3211.2
32.5°	4540.2	4441.6	3831.7	3337.0	3200.8	3160.9	3142.1	3089.7	3087.6	3047.7	2771.1
35°	4257.2	3898.8	3207.0	3072.9	3033.1	2995.3	2963.9	1989.2	234.8	94.3	81.7
37.5°	3934.4	3257.3	2966.0	2905.2	2867.5	2119.2	211.7	73.4	52.4	37.7	33.5
40°	3334.9	2909.4	2817.2	2750.1	1134.0	73.4	46.1	35.6	21.0	18.9	16.8
42.5°	2813.0	2741.7	2643.2	804.9	83.8	35.6	23.1	16.8	14.7	14.7	12.6
45°	2632.7	2569.8	1064.8	79.7	52.4	16.8	14.7	14.7	12.6	8.4	8.4
47.5°	2465.0	2169.5	96.4	50.3	33.5	14.7	12.6	8.4	8.4	8.4	6.3
50°	2286.9	119.5	67.1	37.7	21.0	8.4	8.4	8.4	8.4	6.3	6.3
52.5°	427.6	83.8	54.5	33.5	10.5	8.4	8.4	8.4	6.3	6.3	6.3
55°	100.6	67.1	50.3	29.3	8.4	8.4	8.4	6.3	6.3	6.3	4.2
57.5°	75.5	50.3	39.8	27.2	8.4	6.3	6.3	6.3	6.3	6.3	4.2
60°	62.9	35.6	31.4	25.2	6.3	6.3	6.3	6.3	6.3	6.3	4.2
62.5°	44.0	29.3	23.1	18.9	6.3	6.3	6.3	6.3	6.3	6.3	6.3
65°	35.6	23.1	18.9	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
67.5°	31.4	18.9	12.6	4.2	6.3	6.3	6.3	6.3	6.3	6.3	6.3
70°	25.2	6.3	6.3	4.2	6.3	6.3	6.3	6.3	6.3	6.3	6.3
72.5°	21.0	6.3	4.2	4.2	6.3	6.3	6.3	6.3	6.3	6.3	6.3
75°	21.0	10.5	4.2	4.2	6.3	6.3	8.4	8.4	6.3	6.3	6.3
77.5°	14.7	10.5	4.2	4.2	6.3	6.3	8.4	8.4	6.3	6.3	6.3
80°	8.4	10.5	4.2	6.3	6.3	12.6	14.7	8.4	6.3	6.3	6.3
82.5°	8.4	10.5	12.6	12.6	6.3	10.5	12.6	10.5	8.4	6.3	6.3
85°	8.4	6.3	8.4	10.5	6.3	10.5	10.5	8.4	8.4	6.3	6.3
87.5°	4.2	6.3	6.3	8.4	8.4	8.4	10.5	8.4	8.4	8.4	6.3
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-LD5-109SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2
2.5°	7673.8	7682.2	7550.2	7504.1	7543.9	7535.5	7499.9	7367.8	7353.1	7265.1	7137.2
5°	7334.3	7390.9	7321.7	7441.2	7384.6	7441.2	7613.1	7692.7	7822.7	7902.3	7931.7
7.5°	7097.4	7110.0	7110.0	7120.5	7130.9	7133.0	7120.5	7112.1	7076.5	7032.4	7112.1
10°	6810.2	6824.9	6850.1	6845.9	6843.8	6887.8	6898.3	6988.4	6984.2	7001.0	7061.8
12.5°	6661.4	6548.2	6650.9	6623.7	6661.4	6602.7	6711.7	6692.9	6699.2	6749.5	6879.4
15°	6414.1	6449.7	6474.9	6474.9	6489.5	6477.0	6464.4	6550.3	6602.7	6604.8	6596.4
17.5°	5938.3	5667.9	5944.6	5873.3	6441.3	6456.0	6407.8	6368.0	6368.0	6399.4	6466.5
20°	5097.7	5104.0	5106.1	5133.4	5166.9	5164.8	5166.9	5992.8	6384.7	6294.6	6233.8
22.5°	4468.9	4391.3	4536.0	4525.5	4705.8	4904.9	5095.6	5076.8	5089.3	5672.1	6196.1
25°	3582.2	3682.9	3601.1	3636.7	3840.1	4076.9	4223.7	4607.2	5024.4	4995.0	5131.3
27.5°	3372.6	3345.4	3383.1	3383.1	3410.4	3441.8	3523.6	3739.5	4110.5	4500.3	4869.3
30°	3173.5	3196.6	3200.8	3238.5	3259.4	3280.4	3293.0	3374.7	3458.6	3729.0	4183.8
32.5°	2383.3	2089.8	2750.1	2928.3	3079.2	3114.8	3140.0	3173.5	3234.3	3274.1	3502.6
35°	69.2	69.2	73.4	83.8	106.9	721.1	2745.9	3026.8	3066.6	3116.9	3158.8
37.5°	33.5	25.2	29.3	31.4	37.7	52.4	75.5	234.8	2613.8	2955.5	3001.6
40°	14.7	14.7	14.7	14.7	16.8	21.0	31.4	52.4	79.7	2102.4	2836.0
42.5°	12.6	12.6	12.6	12.6	12.6	12.6	14.7	18.9	37.7	90.1	1488.2
45°	8.4	8.4	6.3	8.4	8.4	10.5	12.6	12.6	16.8	56.6	102.7
47.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	10.5	12.6	37.7	54.5
50°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	29.3	37.7
52.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	12.6	33.5
55°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	6.3	6.3	8.4	29.3
57.5°	4.2	4.2	4.2	4.2	4.2	6.3	4.2	4.2	6.3	6.3	27.2
60°	4.2	4.2	4.2	4.2	4.2	6.3	6.3	6.3	6.3	6.3	25.2
62.5°	6.3	6.3	4.2	6.3	4.2	4.2	6.3	6.3	6.3	6.3	16.8
65°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	4.2	6.3
67.5°	6.3	6.3	6.3	6.3	4.2	6.3	4.2	6.3	6.3	4.2	4.2
70°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	4.2	4.2	4.2	4.2
72.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	4.2	4.2	4.2	4.2
75°	6.3	6.3	6.3	6.3	6.3	6.3	8.4	8.4	4.2	4.2	4.2
77.5°	6.3	6.3	6.3	6.3	6.3	6.3	10.5	12.6	10.5	10.5	4.2
80°	6.3	6.3	6.3	6.3	6.3	6.3	10.5	10.5	10.5	10.5	14.7
82.5°	6.3	6.3	6.3	6.3	6.3	6.3	8.4	8.4	8.4	8.4	10.5
85°	6.3	6.3	6.3	6.3	6.3	6.3	8.4	8.4	8.4	6.3	8.4
87.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	8.4	6.3	6.3	6.3
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-LD5-109SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2
2.5°	7147.7	7076.5	7053.4	7005.2	7001.0	7005.2	6994.7	6980.0	6988.4	6973.7	6961.2
5°	7948.4	7757.7	7634.0	7468.4	7239.9	7189.6	7177.1	7105.8	7080.6	7072.3	7038.7
7.5°	7300.7	7648.7	7858.3	7929.6	7661.3	7598.4	7525.0	7466.3	7409.7	7302.8	7237.9
10°	7013.6	7030.3	7231.6	7466.3	7847.8	7900.2	7940.0	7812.2	7776.5	7504.1	7445.4
12.5°	6946.5	6948.6	6971.6	7114.2	7413.9	7447.5	7587.9	7663.4	7755.6	7808.0	7766.1
15°	6640.5	6810.2	6936.0	6948.6	6975.8	7034.5	7076.5	7338.5	7449.6	7747.2	7730.4
17.5°	6497.9	6552.4	6734.8	6883.6	6858.5	6837.5	6871.0	6906.7	7013.6	7311.2	7307.0
20°	6261.1	6435.0	6533.6	6688.7	6829.1	6835.4	6797.7	6776.7	6734.8	6783.0	6827.0
22.5°	6160.5	6187.7	6372.2	6481.2	6640.5	6697.1	6705.4	6707.5	6684.5	6659.3	6646.7
25°	6150.0	6064.0	6158.4	6294.6	6412.0	6472.8	6541.9	6565.0	6556.6	6556.6	6544.0
27.5°	5032.7	6036.8	5986.5	6076.6	6219.1	6261.1	6296.7	6368.0	6412.0	6443.4	6458.1
30°	4793.8	4974.1	5852.3	5864.9	6009.5	6005.3	6045.2	6103.9	6160.5	6233.8	6252.7
32.5°	4240.4	4682.7	5357.6	5653.2	5804.1	5818.8	5839.7	5856.5	5908.9	5990.7	6061.9
35°	3397.8	4265.6	4590.5	5552.6	5579.8	5609.2	5621.8	5661.6	5678.3	5711.9	5774.8
37.5°	3075.0	3525.6	4403.9	4802.2	5322.0	5347.2	5414.2	5431.0	5458.3	5485.5	5533.7
40°	2888.4	3012.1	3666.1	4288.6	5114.5	5131.3	5154.3	5196.2	5198.3	5229.8	5273.8
42.5°	2739.6	2819.3	3010.0	4095.8	4967.8	4965.7	4911.2	4938.4	4951.0	4984.5	5045.3
45°	2188.3	2645.3	2766.9	3345.4	3955.4	4240.4	4787.5	4697.4	4695.3	4707.9	4772.8
47.5°	111.1	2488.1	2574.0	2760.6	3735.3	3745.7	3817.0	4416.5	4508.7	4479.4	4485.7
50°	75.5	171.9	2397.9	2483.9	3219.6	3479.5	3531.9	3559.2	3905.0	4290.7	4227.8
52.5°	58.7	98.5	1469.4	2305.7	2615.9	2806.7	3144.2	3337.0	3358.0	3513.1	4039.2
55°	52.4	75.5	159.3	2127.5	2224.0	2265.9	2462.9	2800.4	3072.9	3154.6	3160.9
57.5°	46.1	69.2	109.0	962.1	2022.7	2031.1	2064.7	2182.0	2427.3	2651.6	2905.2
60°	41.9	60.8	85.9	165.6	1838.3	1859.2	1865.5	1897.0	1926.3	2079.3	2370.7
62.5°	25.2	48.2	75.5	119.5	1454.7	1670.6	1668.5	1689.5	1716.7	1733.5	1792.2
65°	21.0	37.7	65.0	100.6	178.2	222.2	1349.9	1500.8	1517.6	1540.6	1551.1
67.5°	18.9	33.5	48.2	79.7	134.2	153.0	176.1	218.0	1190.6	1341.5	1362.5
70°	16.8	23.1	39.8	67.1	109.0	117.4	132.1	150.9	178.2	220.1	1077.4
72.5°	10.5	16.8	27.2	48.2	83.8	94.3	102.7	115.3	127.9	153.0	176.1
75°	4.2	12.6	23.1	35.6	65.0	71.3	77.6	85.9	96.4	113.2	125.8
77.5°	4.2	10.5	18.9	25.2	41.9	48.2	56.6	62.9	71.3	79.7	92.2
80°	14.7	8.4	12.6	18.9	29.3	31.4	35.6	39.8	46.1	52.4	60.8
82.5°	10.5	12.6	14.7	12.6	14.7	18.9	21.0	25.2	27.2	31.4	33.5
85°	8.4	8.4	10.5	10.5	10.5	10.5	10.5	10.5	12.6	14.7	18.9
87.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	8.4	8.4
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2
2.5°	6961.2	6957.0	6944.4	6944.4	6942.3	6950.7	6957.0	6963.3	6961.2	6973.7	6961.2
5°	7013.6	7003.1	6984.2	6967.5	6961.2	6965.4	6959.1	6965.4	6957.0	6967.5	6948.6
7.5°	7158.2	7122.6	7049.2	7019.9	6982.1	6980.0	6961.2	6957.0	6944.4	6944.4	6921.3
10°	7413.9	7242.0	7221.1	7133.0	7101.6	6948.6	6982.1	6925.5	6919.2	6892.0	6881.5
12.5°	7623.5	7489.4	7449.6	7372.0	7284.0	6973.7	7042.9	6921.3	6915.1	6860.6	6804.0
15°	7627.7	7705.3	7596.3	7382.5	7363.6	7149.8	7009.4	6967.5	6913.0	6749.5	6776.7
17.5°	7382.5	7560.7	7613.1	7566.9	7432.8	7288.2	7091.1	7007.3	6843.8	6770.4	6720.1
20°	6984.2	7164.5	7388.8	7403.4	7487.3	7384.6	7126.8	6990.5	6793.5	6665.6	6623.7
22.5°	6667.7	6799.8	7057.6	7177.1	7279.8	7315.4	7151.9	6950.7	6705.4	6581.8	6556.6
25°	6500.0	6529.4	6606.9	6747.4	6973.7	7137.2	7160.3	6946.5	6818.6	6548.2	6405.7
27.5°	6439.2	6414.1	6382.6	6453.9	6623.7	6822.8	6954.9	6990.5	6671.9	6414.1	6271.5
30°	6284.1	6298.8	6250.6	6225.4	6336.5	6541.9	6776.7	6835.4	6590.2	6323.9	6160.5
32.5°	6093.4	6118.5	6126.9	6082.9	6059.8	6202.4	6456.0	6596.4	6583.9	6196.1	6013.7
35°	5854.4	5925.7	5944.6	5946.7	5908.9	5885.9	6032.6	6323.9	6435.0	6137.4	5873.3
37.5°	5602.9	5623.8	5726.6	5753.8	5753.8	5684.6	5793.6	6026.3	6181.4	6005.3	5701.4
40°	5288.5	5355.5	5452.0	5500.2	5548.4	5554.7	5493.9	5657.4	5913.1	5869.1	5540.0
42.5°	5060.0	5104.0	5162.7	5227.7	5326.2	5351.4	5288.5	5317.8	5584.0	5699.3	5330.4
45°	4793.8	4852.5	4869.3	4940.5	5043.2	5116.6	5114.5	5053.7	5267.5	5410.0	5177.4
47.5°	4521.3	4577.9	4607.2	4642.9	4718.3	4812.7	4865.1	4837.8	4879.7	5158.5	4974.1
50°	4240.4	4271.9	4330.6	4370.4	4420.7	4475.2	4601.0	4626.1	4567.4	4789.6	4749.8
52.5°	3974.2	3984.7	4024.5	4064.3	4131.4	4171.2	4271.9	4347.3	4343.1	4408.1	4500.3
55°	3766.7	3720.6	3729.0	3760.4	3804.4	3865.2	3921.8	4039.2	4079.0	4091.6	4238.3
57.5°	2942.9	3416.7	3458.6	3456.5	3508.9	3536.1	3588.5	3666.1	3808.6	3777.2	3940.7
60°	2674.6	2727.0	3123.2	3169.3	3188.2	3213.3	3276.2	3347.5	3452.3	3519.4	3590.6
62.5°	2039.5	2358.1	2477.6	2827.6	2882.1	2896.8	2938.7	2972.3	3081.3	3234.3	3204.9
65°	1578.4	1714.6	2079.3	2221.9	2519.5	2557.2	2615.9	2651.6	2683.0	2859.1	2867.5
67.5°	1364.6	1385.5	1484.0	1758.6	1947.3	2238.6	2274.3	2305.7	2353.9	2479.7	2557.2
70°	1165.4	1190.6	1217.8	1240.9	1486.1	1679.0	1949.4	1959.9	1991.3	2075.1	2251.2
72.5°	220.1	995.6	1012.4	1027.1	1054.3	1182.2	1440.0	1649.6	1662.2	1702.0	1863.4
75°	148.8	174.0	239.0	821.7	848.9	857.3	901.3	1163.3	1356.2	1364.6	1435.8
77.5°	106.9	119.5	144.6	171.9	438.1	658.2	668.7	716.9	916.0	1060.6	1073.2
80°	73.4	81.7	96.4	109.0	134.2	176.1	486.3	501.0	526.1	725.3	763.0
82.5°	41.9	48.2	56.6	69.2	79.7	100.6	130.0	167.7	341.7	364.7	484.2
85°	21.0	23.1	27.2	33.5	39.8	48.2	65.0	79.7	109.0	197.0	203.3
87.5°	10.5	10.5	10.5	10.5	16.8	18.9	23.1	29.3	37.7	56.6	73.4
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2
2.5°	6963.3	6992.6	7017.8	7024.0	7024.0	7028.2	7034.5	7038.7	7042.9	7047.1	7042.9
5°	6950.7	6982.1	7003.1	7009.4	7009.4	7022.0	7032.4	7045.0	7051.3	7051.3	7047.1
7.5°	6919.2	6942.3	6969.5	6986.3	6988.4	7009.4	7028.2	7026.1	7034.5	7038.7	7049.2
10°	6877.3	6877.3	6923.4	6936.0	6946.5	6969.5	6975.8	6988.4	7017.8	7022.0	7049.2
12.5°	6856.4	6835.4	6889.9	6896.2	6931.8	6902.5	6940.2	6952.8	6923.4	6963.3	6910.9
15°	6762.0	6787.2	6778.8	6797.7	6860.6	6827.0	6929.7	6896.2	6971.6	6881.5	7040.8
17.5°	6684.5	6680.3	6713.8	6730.6	6743.2	6814.4	6841.7	6879.4	6908.8	6883.6	6946.5
20°	6627.9	6594.3	6619.5	6638.4	6682.4	6736.9	6753.7	6697.1	6795.6	6963.3	7003.1
22.5°	6521.0	6497.9	6527.3	6527.3	6594.3	6586.0	6648.8	6613.2	6705.4	6900.4	7103.7
25°	6376.4	6378.4	6409.9	6447.6	6460.2	6554.5	6588.1	6634.2	6749.5	6982.1	7105.8
27.5°	6229.6	6217.0	6235.9	6313.5	6378.4	6447.6	6458.1	6615.3	6772.5	6931.8	7040.8
30°	6082.9	6070.3	6082.9	6139.5	6217.0	6263.2	6378.4	6588.1	6734.8	6843.8	6946.5
32.5°	5925.7	5913.1	5942.5	5984.4	6120.6	6126.9	6355.4	6552.4	6667.7	6747.4	6728.5
35°	5758.0	5741.2	5768.5	5833.5	5959.2	6005.3	6244.3	6391.0	6521.0	6558.7	6470.7
37.5°	5556.8	5527.4	5561.0	5651.1	5783.2	5917.3	6116.4	6286.2	6355.4	6254.8	6150.0
40°	5347.2	5326.2	5384.9	5431.0	5586.1	5772.7	6001.1	6120.6	6076.6	5961.3	5846.0
42.5°	5160.6	5116.6	5169.0	5257.0	5433.1	5644.8	5829.3	5896.3	5791.5	5621.8	5487.6
45°	4932.1	4879.7	4942.6	5060.0	5248.6	5489.7	5634.3	5611.3	5433.1	5286.4	5101.9
47.5°	4693.2	4630.3	4693.2	4833.6	5045.3	5301.0	5405.9	5301.0	5076.8	4892.3	4743.5
50°	4458.4	4385.1	4445.8	4657.5	4865.1	5062.1	5060.0	4856.7	4722.5	4521.3	4391.3
52.5°	4225.7	4120.9	4181.7	4412.3	4619.8	4844.1	4678.5	4489.9	4328.5	4152.4	4110.5
55°	3938.6	3825.4	3907.1	4242.5	4401.8	4533.9	4269.8	4104.2	3944.9	3856.8	3804.4
57.5°	3666.1	3542.4	3613.7	4009.8	4127.2	4160.8	3917.6	3682.9	3588.5	3559.2	3483.7
60°	3385.2	3244.8	3311.8	3768.8	3850.5	3714.3	3475.3	3293.0	3274.1	3215.4	3156.7
62.5°	3116.9	2961.8	3003.7	3469.1	3506.8	3259.4	3039.4	2991.1	2945.0	2886.3	2854.9
65°	2808.8	2647.4	2706.1	3150.4	3114.8	2796.2	2672.5	2662.1	2601.3	2553.1	2599.2
67.5°	2525.8	2335.1	2416.8	2802.5	2641.1	2381.2	2330.9	2305.7	2257.5	2284.8	1800.6
70°	2215.6	2008.1	2119.2	2427.3	2188.3	2016.5	1997.6	1959.9	1962.0	1559.5	1314.3
72.5°	1869.7	1689.5	1850.9	2016.5	1731.4	1681.1	1653.8	1649.6	1331.0	1081.6	1020.8
75°	1565.8	1383.4	1557.4	1620.3	1379.2	1345.7	1343.6	1110.9	874.1	834.2	815.4
77.5°	1222.0	1081.6	1247.2	1152.9	1058.5	1020.8	916.0	687.5	658.2	630.9	236.9
80°	823.8	834.2	930.7	794.4	754.6	643.5	507.3	486.3	419.2	167.7	132.1
82.5°	501.0	628.8	593.2	496.8	486.3	350.0	320.7	163.5	121.6	96.4	83.8
85°	259.9	318.6	306.0	270.4	201.2	180.3	100.6	77.6	62.9	48.2	39.8
87.5°	88.0	117.4	113.2	90.1	69.2	54.5	35.6	29.3	21.0	16.8	14.7
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2
2.5°	7038.7	7038.7	7034.5	7038.7	7040.8	7036.6	7036.6	7040.8	7042.9	7045.0	7055.5
5°	7049.2	7053.4	7059.7	7072.3	7074.4	7099.5	7110.0	7116.3	7122.6	7124.7	7110.0
7.5°	7072.3	7086.9	7099.5	7097.4	7082.7	7042.9	7030.3	7019.9	7038.7	7086.9	7143.5
10°	7093.2	7026.1	6900.4	7072.3	7019.9	7068.1	7210.6	7242.0	7338.5	7474.7	7514.5
12.5°	6948.6	7133.0	7172.9	6980.0	7336.4	7204.3	7361.5	7499.9	7539.7	7678.0	7594.2
15°	7103.7	7193.8	7254.6	7447.5	7426.5	7539.7	7583.7	7556.5	7562.7	7598.4	7692.7
17.5°	7101.6	7281.9	7321.7	7451.7	7539.7	7541.8	7529.2	7516.6	7550.2	7577.4	7520.8
20°	7223.2	7281.9	7359.4	7411.8	7428.6	7449.6	7489.4	7457.9	7395.1	7334.3	7309.1
22.5°	7162.4	7294.4	7361.5	7369.9	7359.4	7294.4	7235.8	7147.7	7118.4	7086.9	7097.4
25°	7175.0	7235.8	7227.4	7193.8	7149.8	7028.2	6998.9	6961.2	6904.6	6768.3	6644.7
27.5°	7084.8	7053.4	7015.7	6933.9	6854.3	6789.3	6715.9	6594.3	6493.7	6347.0	6292.5
30°	6933.9	6808.1	6715.9	6667.7	6590.2	6481.2	6370.1	6221.2	6093.4	6064.0	6036.8
32.5°	6644.7	6521.0	6445.5	6328.1	6196.1	6066.1	5938.3	5879.6	5852.3	5856.5	5831.4
35°	6349.1	6240.1	6126.9	5950.8	5852.3	5722.4	5676.3	5663.7	5638.5	5611.3	5581.9
37.5°	6034.7	5906.8	5737.0	5632.2	5533.7	5481.3	5458.3	5439.4	5395.4	5347.2	5313.6
40°	5730.8	5500.2	5405.9	5303.1	5273.8	5250.7	5217.2	5171.1	5110.3	5101.9	5087.2
42.5°	5324.1	5158.5	5076.8	5055.8	5020.2	4980.3	4951.0	4900.7	4875.5	4892.3	4904.9
45°	4938.4	4854.6	4827.3	4802.2	4735.1	4678.5	4659.6	4642.9	4663.8	4756.1	4536.0
47.5°	4626.1	4592.6	4559.0	4517.1	4454.2	4412.3	4431.2	4447.9	4466.8	3789.8	3458.6
50°	4355.7	4309.6	4257.2	4211.1	4173.3	4169.2	4267.7	3972.1	3326.5	3309.7	2974.4
52.5°	4060.2	3991.0	3959.5	3932.3	3949.1	4011.9	3320.2	3081.3	2955.5	2567.7	2395.8
55°	3741.5	3680.8	3680.8	3705.9	3615.8	2930.4	2894.7	2502.7	2265.9	2198.8	2171.6
57.5°	3422.9	3416.7	3452.3	3156.7	2660.0	2551.0	2144.3	2058.4	2020.6	2012.3	1968.2
60°	3131.6	3190.3	2670.4	2456.6	2135.9	1926.3	1867.6	1857.1	1817.3	1802.7	1762.8
62.5°	2898.9	2404.2	2238.6	1827.8	1720.9	1693.7	1662.2	1647.5	1611.9	1423.3	417.1
65°	2094.0	1978.7	1605.6	1536.4	1528.1	1488.2	1475.7	1326.8	312.3	209.6	178.2
67.5°	1580.5	1402.3	1354.1	1341.5	1301.7	1222.0	362.6	207.5	178.2	155.1	136.2
70°	1213.6	1182.2	1146.6	1117.2	329.1	205.4	178.2	150.9	130.0	115.3	104.8
72.5°	993.6	972.6	565.9	215.9	176.1	148.8	132.1	115.3	100.6	92.2	83.8
75°	777.7	215.9	178.2	148.8	127.9	109.0	96.4	85.9	77.6	71.3	65.0
77.5°	176.1	142.5	121.6	102.7	92.2	81.7	73.4	62.9	56.6	50.3	41.9
80°	109.0	94.3	79.7	73.4	62.9	52.4	46.1	41.9	33.5	31.4	27.2
82.5°	71.3	56.6	50.3	41.9	33.5	31.4	27.2	21.0	18.9	16.8	14.7
85°	31.4	27.2	23.1	18.9	14.7	12.6	10.5	8.4	8.4	8.4	8.4
87.5°	10.5	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	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-LD5-109SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2
2.5°	7059.7	7097.4	7133.0	7122.6	7084.8	7026.1	7009.4	6986.3	7003.1	7038.7	7053.4
5°	7110.0	7089.0	7164.5	7275.6	7455.8	7472.6	7598.4	7627.7	7728.3	7791.2	7789.1
7.5°	7181.3	7478.9	7602.6	7736.7	7797.5	7782.8	7801.7	7787.0	7764.0	7753.5	7740.9
10°	7543.9	7770.3	7816.4	7816.4	7722.1	7594.2	7539.7	7445.4	7256.7	7260.9	7229.5
12.5°	7755.6	7835.2	7726.2	7634.0	7254.6	7107.9	6948.6	6873.1	6829.1	6762.0	6787.2
15°	7644.5	7531.3	7466.3	7168.7	6936.0	6671.9	6676.1	6630.0	6581.8	6586.0	6554.5
17.5°	7481.0	7390.9	6929.7	6724.3	6611.1	6508.4	6489.5	6428.8	6397.3	6386.8	6384.7
20°	7256.7	6931.8	6588.1	6537.8	6401.5	6284.1	6265.3	6284.1	6380.5	6208.7	5625.9
22.5°	6994.7	6527.3	6426.7	6284.1	6191.9	6145.8	6261.1	5737.0	4944.7	5041.1	4938.4
25°	6550.3	6347.0	6175.1	6066.1	6055.6	5772.7	4810.6	4709.9	4200.6	3928.1	3622.1
27.5°	6225.4	6137.4	5957.1	5938.3	5802.0	4720.4	4219.5	3666.1	3462.8	3431.3	3364.2
30°	6028.4	5902.6	5793.6	5317.8	4630.3	3800.2	3385.2	3307.7	3272.0	3234.3	3175.6
32.5°	5791.5	5672.1	5724.5	4471.0	3691.2	3272.0	3188.2	3131.6	3066.6	3041.4	2829.7
35°	5550.5	5496.0	4473.1	3758.3	3173.5	3072.9	3010.0	2951.3	2347.6	568.0	192.8
37.5°	5292.7	5280.1	4020.3	3119.0	2972.3	2878.0	2699.8	557.6	132.1	90.1	67.1
40°	5091.4	4022.4	3177.7	2924.1	2804.6	2655.8	373.1	92.2	58.7	35.6	23.1
42.5°	4957.3	3617.9	2844.4	2743.8	2483.9	274.6	94.3	39.8	23.1	18.9	14.7
45°	3821.2	2857.0	2657.9	2553.1	314.4	94.3	54.5	18.9	14.7	12.6	8.4
47.5°	3525.6	2595.0	2477.6	557.6	104.8	50.3	37.7	12.6	8.4	8.4	8.4
50°	2670.4	2397.9	1972.4	136.2	67.1	35.6	27.2	8.4	8.4	8.4	6.3
52.5°	2341.3	2213.5	211.7	90.1	52.4	27.2	16.8	6.3	6.3	6.3	6.3
55°	2140.1	1404.4	125.8	69.2	44.0	25.2	10.5	6.3	6.3	6.3	4.2
57.5°	1957.8	188.6	92.2	58.7	39.8	23.1	6.3	6.3	6.3	6.3	4.2
60°	1660.1	136.2	75.5	52.4	37.7	21.0	6.3	6.3	6.3	6.3	6.3
62.5°	215.9	106.9	65.0	46.1	27.2	16.8	4.2	6.3	6.3	6.3	6.3
65°	157.2	83.8	58.7	31.4	16.8	6.3	4.2	6.3	6.3	6.3	6.3
67.5°	121.6	69.2	44.0	27.2	14.7	4.2	4.2	6.3	6.3	6.3	6.3
70°	96.4	58.7	35.6	23.1	12.6	4.2	4.2	6.3	6.3	6.3	6.3
72.5°	75.5	41.9	25.2	12.6	8.4	4.2	4.2	6.3	6.3	6.3	6.3
75°	56.6	33.5	18.9	10.5	4.2	4.2	4.2	6.3	6.3	6.3	6.3
77.5°	37.7	21.0	14.7	8.4	8.4	8.4	10.5	10.5	6.3	6.3	6.3
80°	25.2	14.7	10.5	10.5	10.5	8.4	10.5	10.5	6.3	10.5	6.3
82.5°	12.6	10.5	10.5	8.4	8.4	6.3	8.4	8.4	8.4	8.4	6.3
85°	8.4	6.3	6.3	6.3	6.3	6.3	6.3	6.3	8.4	8.4	6.3
87.5°	4.2	4.2	4.2	4.2	6.3	6.3	6.3	6.3	8.4	8.4	6.3
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-LD5-109SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2
2.5°	7034.5	7040.8	7024.0	7114.2	7068.1	7072.3	7091.1	7042.9	7053.4	7019.9	6996.8
5°	7797.5	7810.1	7822.7	7826.9	7835.2	7845.7	7833.1	7826.9	7814.3	7772.4	7728.3
7.5°	7678.0	7663.4	7657.1	7665.5	7680.1	7686.4	7675.9	7690.6	7745.1	7768.2	7782.8
10°	7049.2	6982.1	7028.2	7022.0	6969.5	7145.6	7097.4	7124.7	7143.5	7336.4	7453.7
12.5°	6749.5	6791.4	6711.7	6671.9	6724.3	6759.9	6795.6	6720.1	6824.9	6776.7	6931.8
15°	6497.9	6472.8	6464.4	6466.5	6456.0	6506.3	6518.9	6535.7	6550.3	6615.3	6640.5
17.5°	6384.7	6426.7	6443.4	6456.0	6435.0	6412.0	6388.9	6355.4	6365.9	6349.1	6397.3
20°	5234.0	5093.5	5085.2	5166.9	5076.8	5127.1	5248.6	6061.9	6034.7	6351.2	6244.3
22.5°	4368.3	4236.2	4123.0	4024.5	4165.0	4223.7	4450.0	4705.8	5120.8	5055.8	5506.5
25°	3567.6	3519.4	3490.0	3475.3	3485.8	3481.6	3531.9	3651.4	3840.1	4284.4	4858.8
27.5°	3337.0	3313.9	3303.5	3269.9	3295.1	3286.7	3326.5	3351.7	3408.3	3452.3	3638.8
30°	3154.6	3127.4	3108.5	3072.9	3098.0	3100.1	3112.7	3177.7	3200.8	3238.5	3297.2
32.5°	1152.9	679.1	637.2	605.8	662.4	863.6	1515.5	2649.5	3022.6	3051.9	3119.0
35°	113.2	94.3	83.8	83.8	85.9	94.3	125.8	331.2	605.8	2341.3	2930.4
37.5°	44.0	37.7	31.4	29.3	31.4	35.6	48.2	62.9	85.9	178.2	794.4
40°	18.9	16.8	14.7	14.7	14.7	14.7	16.8	21.0	31.4	58.7	92.2
42.5°	12.6	10.5	10.5	10.5	10.5	10.5	10.5	10.5	14.7	18.9	37.7
45°	8.4	6.3	6.3	6.3	6.3	6.3	6.3	6.3	8.4	10.5	16.8
47.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	8.4
50°	6.3	6.3	6.3	6.3	4.2	6.3	4.2	6.3	6.3	6.3	6.3
52.5°	6.3	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	6.3	6.3
55°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	6.3
57.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
60°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
62.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	6.3	6.3	4.2
65°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	6.3	4.2
67.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
70°	6.3	6.3	4.2	6.3	4.2	4.2	6.3	6.3	6.3	4.2	4.2
72.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	12.6	12.6	8.4
75°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	10.5	12.6	10.5
77.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	10.5	10.5	10.5
80°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	8.4	8.4	8.4
82.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	8.4	8.4	8.4
85°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
87.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
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-LD5-109SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2
2.5°	6957.0	6954.9	6998.9	7032.4	7019.9	7032.4	7047.1	7049.2	7053.4	7036.6	7030.3
5°	7644.5	7579.5	7453.7	7363.6	7258.8	7068.1	6973.7	6984.2	6986.3	6980.0	6988.4
7.5°	7776.5	7770.3	7726.2	7707.4	7636.1	7499.9	7281.9	7244.1	7151.9	7093.2	7045.0
10°	7445.4	7596.3	7636.1	7703.2	7745.1	7720.0	7535.5	7508.2	7449.6	7382.5	7397.2
12.5°	7086.9	7210.6	7216.9	7581.6	7663.4	7671.7	7600.5	7638.2	7646.6	7495.7	7407.6
15°	6646.7	6705.4	6829.1	7168.7	7416.0	7571.1	7617.2	7638.2	7535.5	7529.2	7493.6
17.5°	6453.9	6491.6	6548.2	6739.0	7114.2	7342.7	7537.6	7522.9	7562.7	7533.4	7443.3
20°	6210.8	6242.2	6342.8	6439.2	6623.7	6927.6	7292.3	7319.6	7372.0	7365.7	7390.9
22.5°	6206.6	6095.5	6112.2	6187.7	6380.5	6653.0	7040.8	7130.9	7164.5	7187.5	7214.8
25°	4923.8	5806.2	5967.6	6015.8	6141.6	6300.9	6757.8	6791.4	6854.3	6957.0	7032.4
27.5°	4265.6	4865.1	5510.7	5846.0	5925.7	6057.7	6330.2	6380.5	6594.3	6619.5	6736.9
30°	3366.3	3829.6	4793.8	5600.8	5732.8	5825.1	6017.9	6118.5	6210.8	6311.4	6435.0
32.5°	3167.2	3240.6	3775.1	4634.5	5661.6	5592.4	5734.9	5795.7	5896.3	5984.4	6074.5
35°	2984.9	3035.2	3148.3	3796.0	4611.4	5401.7	5498.1	5537.9	5594.5	5661.6	5726.6
37.5°	2794.1	2869.6	2947.1	3121.1	4265.6	5250.7	5248.6	5294.8	5328.3	5384.9	5439.4
40°	507.3	2634.8	2760.6	2873.8	3307.7	4188.0	5013.9	5034.8	5057.9	5093.5	5150.1
42.5°	81.7	440.2	2586.6	2695.6	2819.3	3749.9	4907.0	4821.0	4806.4	4831.5	4881.8
45°	41.9	106.9	519.8	2517.4	2628.5	2991.1	4011.9	4672.2	4657.5	4609.3	4619.8
47.5°	31.4	67.1	127.9	869.9	2460.8	2567.7	3701.7	3661.9	3940.7	4475.2	4393.4
50°	27.2	46.1	75.5	178.2	2173.7	2364.4	2850.7	3330.7	3477.4	3496.3	4137.7
52.5°	25.2	31.4	54.5	115.3	457.0	2186.2	2318.3	2486.0	2733.3	3263.6	3251.1
55°	23.1	29.3	46.1	77.6	159.3	1970.3	2106.6	2138.0	2190.4	2444.1	2779.4
57.5°	12.6	27.2	44.0	67.1	119.5	360.5	1911.6	1936.8	1978.7	1989.2	2108.7
60°	6.3	25.2	39.8	58.7	88.0	167.7	1718.8	1748.2	1773.3	1777.5	1815.2
62.5°	4.2	23.1	33.5	54.5	73.4	119.5	406.6	830.1	1578.4	1578.4	1622.4
65°	4.2	16.8	21.0	35.6	67.1	98.5	171.9	199.1	387.8	953.7	1423.3
67.5°	4.2	6.3	18.9	29.3	50.3	75.5	125.8	146.7	176.1	201.2	373.1
70°	4.2	4.2	16.8	18.9	31.4	56.6	90.1	102.7	119.5	136.2	157.2
72.5°	4.2	4.2	14.7	14.7	21.0	37.7	69.2	75.5	85.9	96.4	111.1
75°	10.5	8.4	12.6	12.6	14.7	29.3	52.4	58.7	62.9	71.3	81.7
77.5°	10.5	10.5	10.5	10.5	10.5	18.9	33.5	37.7	44.0	48.2	56.6
80°	8.4	8.4	8.4	10.5	10.5	12.6	21.0	23.1	25.2	31.4	33.5
82.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	12.6	14.7	18.9
85°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	8.4	8.4	8.4	8.4
87.5°	6.3	6.3	6.3	4.2	4.2	6.3	6.3	6.3	6.3	6.3	6.3
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-LD5-109SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2
2.5°	7028.2	7015.7	7005.2	7011.5	6992.6	6984.2	6990.5	6992.6	6996.8	7007.3	7009.4
5°	7009.4	7005.2	7024.0	7034.5	7030.3	7034.5	7034.5	7026.1	7013.6	7022.0	7003.1
7.5°	6996.8	6969.5	6948.6	6952.8	6931.8	6957.0	6980.0	7013.6	7024.0	7024.0	7003.1
10°	7212.7	7183.4	7066.0	6986.3	6933.9	6887.8	6996.8	6885.7	6938.1	6739.0	6967.5
12.5°	7390.9	7430.7	7378.3	7160.3	7122.6	6984.2	7063.9	6927.6	6887.8	6659.3	6732.7
15°	7462.1	7386.7	7369.9	7309.1	7227.4	7187.5	6973.7	6950.7	6885.7	6910.9	6814.4
17.5°	7399.3	7437.0	7386.7	7346.8	7263.0	7168.7	7040.8	6927.6	6837.5	6636.3	6806.1
20°	7338.5	7388.8	7237.9	7263.0	7271.4	7162.4	7095.3	7001.0	6887.8	6699.2	6552.4
22.5°	7237.9	7202.2	7214.8	7177.1	7145.6	7160.3	7068.1	7003.1	6812.3	6726.4	6527.3
25°	7074.4	7061.8	7095.3	7091.1	7015.7	6990.5	6944.4	6875.2	6799.8	6661.4	6497.9
27.5°	6808.1	6873.1	6931.8	6959.1	6919.2	6852.2	6827.0	6787.2	6734.8	6594.3	6472.8
30°	6527.3	6600.6	6667.7	6726.4	6762.0	6732.7	6709.6	6686.6	6606.9	6514.7	6378.4
32.5°	6206.6	6303.0	6395.2	6466.5	6544.0	6567.1	6550.3	6531.5	6464.4	6380.5	6271.5
35°	5835.6	5967.6	6101.8	6229.6	6263.2	6317.7	6372.2	6340.7	6305.1	6221.2	6120.6
37.5°	5521.1	5615.5	5711.9	5873.3	5990.7	6059.8	6156.3	6168.8	6108.1	6068.2	5936.2
40°	5196.2	5282.2	5422.6	5516.9	5678.3	5758.0	5860.7	5906.8	5892.2	5869.1	5753.8
42.5°	4940.5	4982.4	5074.7	5158.5	5317.8	5481.3	5571.4	5621.8	5674.2	5655.3	5596.6
45°	4668.0	4705.8	4737.2	4810.6	4965.7	5110.3	5221.4	5296.9	5391.2	5435.2	5363.9
47.5°	4397.6	4408.1	4445.8	4506.6	4598.9	4709.9	4896.5	5009.7	5097.7	5183.7	5137.6
50°	4190.1	4152.4	4158.7	4196.4	4271.9	4380.9	4515.0	4674.3	4774.9	4879.7	4890.2
52.5°	3661.9	3967.9	3894.6	3915.5	3955.4	4007.8	4148.2	4305.4	4429.1	4519.2	4609.3
55°	3072.9	3133.7	3722.7	3638.8	3664.0	3710.1	3775.1	3932.3	4051.8	4177.5	4303.3
57.5°	2383.3	2836.0	2859.1	3404.1	3391.5	3395.7	3450.2	3540.3	3659.8	3817.0	3923.9
60°	1853.0	2043.7	2414.7	2603.4	3081.3	3098.0	3129.5	3181.9	3284.6	3433.4	3603.2
62.5°	1635.0	1660.1	1792.2	2075.1	2385.4	2760.6	2827.6	2836.0	2882.1	3031.0	3228.0
65°	1435.8	1452.6	1492.4	1521.8	1781.7	2144.3	2467.1	2519.5	2548.9	2636.9	2804.6
67.5°	989.4	1251.4	1287.0	1308.0	1333.1	1500.8	1901.2	2167.4	2200.9	2278.5	2425.2
70°	190.7	396.2	1083.7	1106.7	1119.3	1157.0	1222.0	1645.4	1867.6	1941.0	2008.1
72.5°	130.0	153.0	184.5	436.0	922.3	943.2	957.9	1012.4	1387.6	1601.4	1637.1
75°	94.3	104.8	123.7	153.0	188.6	614.2	760.9	788.1	815.4	1125.6	1305.9
77.5°	67.1	75.5	83.8	98.5	115.3	148.8	213.8	589.0	616.3	630.9	890.8
80°	37.7	46.1	56.6	65.0	73.4	83.8	109.0	136.2	303.9	444.4	467.4
82.5°	21.0	25.2	29.3	35.6	39.8	50.3	60.8	73.4	96.4	142.5	301.8
85°	10.5	10.5	10.5	14.7	16.8	23.1	27.2	31.4	44.0	60.8	83.8
87.5°	6.3	6.3	8.4	8.4	8.4	10.5	10.5	10.5	12.6	18.9	27.2
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	6984.2	6984.2	6984.2	6984.2	6984.2
2.5°	7011.5	7005.2	7005.2	7030.3	7024.0
5°	6998.9	6992.6	6990.5	7017.8	7005.2
7.5°	6988.4	6965.4	6959.1	6984.2	6973.7
10°	6946.5	6929.7	6940.2	6931.8	6927.6
12.5°	6875.2	6864.7	6820.7	6824.9	6860.6
15°	6747.4	6789.3	6713.8	6780.9	6795.6
17.5°	6512.6	6606.9	6680.3	6720.1	6726.4
20°	6617.4	6648.8	6611.1	6613.2	6638.4
22.5°	6481.2	6495.8	6506.3	6493.7	6548.2
25°	6263.2	6206.6	6328.1	6353.3	6441.3
27.5°	6196.1	6150.0	6206.6	6202.4	6275.7
30°	6141.6	5992.8	6017.9	6057.7	6147.9
32.5°	6064.0	5829.3	5804.1	5892.2	5992.8
35°	5927.8	5705.6	5646.9	5703.5	5854.4
37.5°	5812.5	5533.7	5416.3	5491.8	5688.8
40°	5640.6	5399.6	5217.2	5284.3	5516.9
42.5°	5435.2	5284.3	5003.4	5049.5	5315.7
45°	5227.7	5093.5	4795.9	4818.9	5135.5
47.5°	5016.0	4892.3	4580.0	4584.2	4904.9
50°	4808.5	4645.0	4387.1	4313.8	4659.6
52.5°	4538.1	4387.1	4192.2	4072.7	4427.0
55°	4282.3	4112.6	3970.0	3785.6	4162.9
57.5°	4032.9	3844.3	3747.8	3511.0	3863.1
60°	3691.2	3601.1	3458.6	3232.2	3592.7
62.5°	3341.2	3311.8	3167.2	2932.5	3259.4
65°	2932.5	3001.6	2852.8	2651.6	2913.6
67.5°	2546.8	2670.4	2506.9	2383.3	2580.3
70°	2135.9	2278.5	2186.2	2142.2	2226.1
72.5°	1731.4	1869.7	1878.1	1846.7	1873.9
75°	1337.3	1490.3	1574.2	1526.0	1532.3
77.5°	1014.5	1087.9	1180.1	1217.8	1209.5
80°	626.7	754.6	830.1	907.6	880.4
82.5°	316.5	423.4	515.6	599.5	559.7
85°	132.1	169.8	236.9	312.3	299.7
87.5°	39.8	67.1	71.3	100.6	94.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)