

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-LD5-170HL-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-LD5-170HL-RM-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

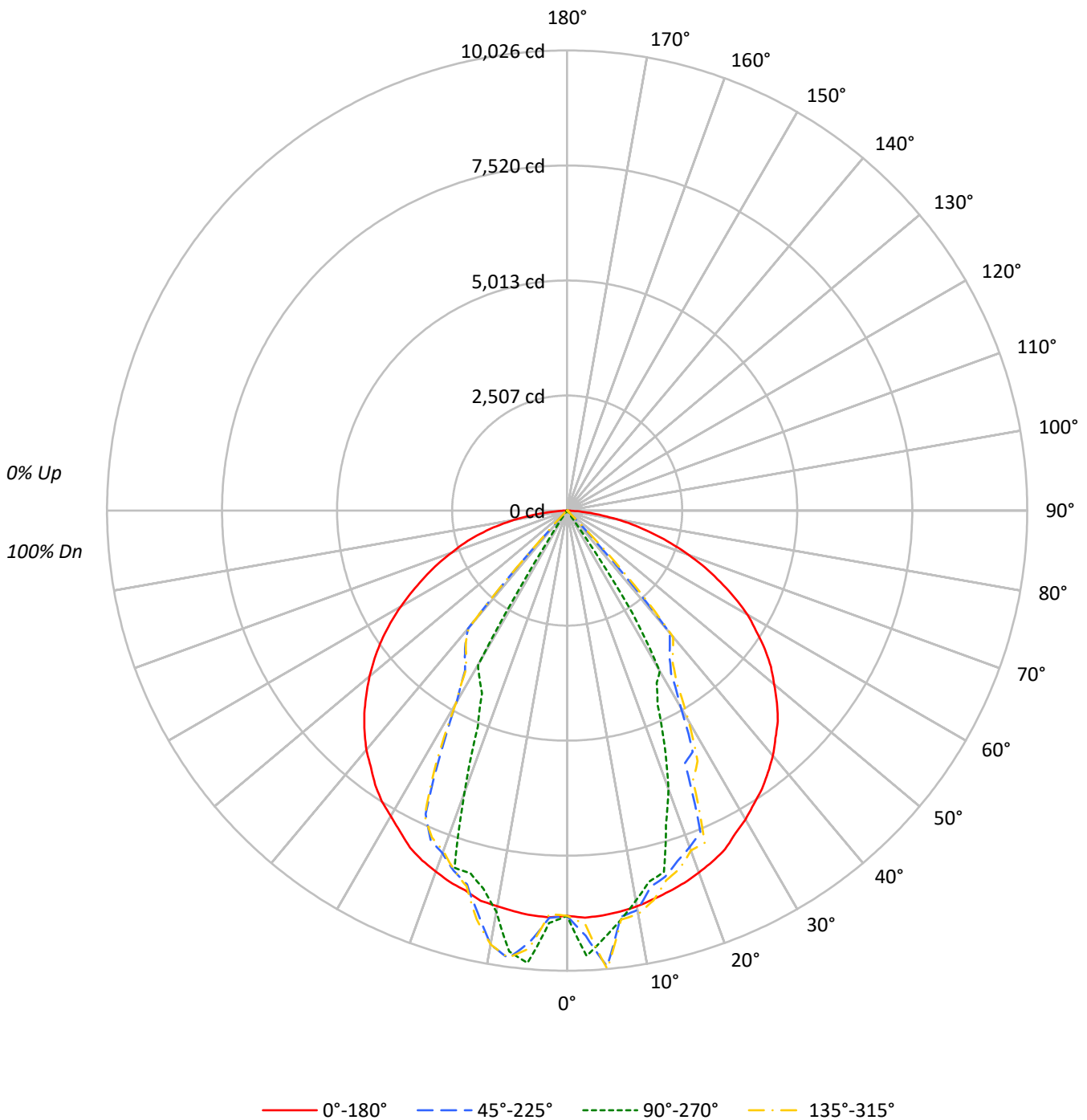
Lumens per Lamp: N/A
Luminaire Lumens: 12552.9 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 124
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-LD5-170HL-RM-UNV-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-RM-UNV-L940-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	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°	35670	35670	35670	35670
5°	35865	36687	35855	38851
10°	35829	33197	35807	34156
15°	35782	30986	35693	31067
20°	35876	24406	35774	24707
25°	36036	17662	35860	16667
30°	35932	15493	35552	14894
35°	36106	341	35576	414
40°	36306	74	35437	74
45°	36522	44	35150	33
50°	36347	34	34679	34
55°	36259	24	34031	24
60°	35731	26	32937	26
65°	34068	42	31642	28
70°	31873	46	30343	46
75°	28570	51	29039	51
80°	23785	59	25145	59
85°	14904	69	15215	69



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-RM-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	885.7	7.1
10°-20°	2415.9	19.2
20°-30°	3074.2	24.5
30°-40°	2596.9	20.7
40°-50°	1697.8	13.5
50°-60°	1069.7	8.5
60°-70°	569.4	4.5
70°-80°	207.6	1.7
80°-90°	35.7	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°	6375.8	50.8
0°-40°	8972.7	71.5
0°-60°	11740.2	93.5
0°-90°	12552.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12552.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8828	8828	8828	8828	8828	
5°	8855	9342	8852	9893	8855	842
15°	8590	8153	8569	8174	8590	2428
25°	8142	4655	8102	4393	8142	3744
35°	7400	87	7292	106	7400	4629
45°	6491	11	6248	8	6491	4992
55°	5262	5	4939	5	5262	4689
65°	3683	8	3420	5	3683	3647
75°	1937	8	1969	8	1937	2056
85°	379	8	387	8	379	479
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2
2.5°	8878.5	8883.8	8886.5	8891.8	8899.7	8902.4	8907.7	8902.4	8902.4	8902.4	8902.4
5°	8854.7	8865.3	8873.3	8883.8	8902.4	8905.0	8926.2	8928.9	8939.5	8960.7	8976.6
7.5°	8815.0	8825.6	8841.5	8868.0	8894.4	8923.6	8960.7	9000.4	9056.1	9109.1	9175.3
10°	8756.7	8769.9	8788.5	8812.3	8942.1	8960.7	9042.8	9156.7	9188.5	9355.5	9480.0
12.5°	8671.9	8716.9	8764.6	8785.8	8910.3	9106.4	9382.0	9326.3	9265.4	9811.2	9803.2
15°	8589.8	8650.7	8626.8	8799.1	8913.0	9254.8	9138.2	9387.3	9843.0	9731.7	9737.0
17.5°	8502.3	8515.6	8648.0	8791.1	8995.1	9170.0	9313.1	9654.9	9744.9	9752.9	9654.9
20°	8391.0	8454.6	8648.0	8777.9	9122.3	9204.4	9514.4	9689.3	9652.2	9562.1	9395.2
22.5°	8277.1	8470.5	8666.6	8849.4	9090.5	9310.4	9464.1	9546.2	9352.8	8997.8	8807.0
25°	8142.0	8255.9	8512.9	8780.5	9082.6	9209.7	9299.8	9167.3	8915.6	8597.7	8277.1
27.5°	7932.7	8115.5	8444.0	8746.1	9019.0	9172.6	9026.9	8709.0	8303.6	8094.3	7948.6
30°	7771.0	8009.5	8279.8	8571.2	8854.7	8944.8	8573.9	8210.9	7932.7	7723.4	7691.6
32.5°	7575.0	7914.1	8171.1	8449.3	8687.8	8568.6	8208.2	7739.3	7508.7	7429.3	7461.1
35°	7400.1	7657.1	7993.6	8266.5	8438.7	8171.1	7601.5	7310.0	7198.8	7243.8	7185.5
37.5°	7190.8	7529.9	7839.9	8075.7	8017.5	7614.7	7132.5	6947.0	6960.3	6923.2	6811.9
40°	6973.5	7296.8	7620.0	7842.6	7638.6	7023.9	6703.3	6663.5	6671.5	6552.3	6393.3
42.5°	6719.2	7013.3	7336.5	7537.9	7098.1	6618.5	6401.2	6406.5	6337.7	6170.7	6086.0
45°	6491.3	6761.6	7098.1	7116.6	6576.1	6176.0	6112.4	6043.6	5889.9	5834.2	5770.7
47.5°	6199.9	6499.3	6777.5	6676.8	6064.8	5815.7	5768.0	5617.0	5540.2	5497.8	5444.8
50°	5889.9	6191.9	6446.3	6160.1	5582.5	5524.3	5367.9	5248.7	5195.7	5150.7	5103.0
52.5°	5595.8	5844.8	6104.5	5611.7	5211.6	5156.0	4978.5	4909.6	4856.6	4806.2	4795.6
55°	5262.0	5481.9	5659.4	5089.7	4856.6	4726.7	4599.6	4551.9	4501.5	4477.7	4517.4
57.5°	4883.1	5132.1	5105.6	4575.7	4472.4	4284.3	4236.6	4204.8	4167.7	4183.6	3852.4
60°	4541.3	4732.0	4602.2	4199.5	4024.6	3897.4	3855.1	3833.9	3855.1	3531.8	3105.2
62.5°	4120.0	4334.6	4072.3	3759.7	3574.2	3513.3	3476.2	3505.3	3195.3	2840.3	2737.0
65°	3682.8	3916.0	3529.2	3288.1	3171.5	3118.5	3115.8	2869.4	2564.7	2427.0	2427.0
67.5°	3261.6	3502.7	3004.6	2803.2	2758.2	2763.5	2609.8	2236.2	2151.4	2058.7	1791.1
70°	2813.8	3025.8	2482.6	2360.7	2334.2	2315.7	1942.1	1841.4	1740.7	1494.3	1473.1
72.5°	2368.7	2472.0	1995.1	1965.9	1960.6	1629.5	1555.3	1383.1	1266.5	1237.3	1224.1
75°	1936.8	1905.0	1576.5	1603.0	1351.3	1234.7	1115.4	1014.8	998.9	988.3	246.4
77.5°	1528.8	1369.8	1242.6	1081.0	967.1	821.4	797.5	781.6	514.0	185.5	151.0
80°	1112.8	887.6	826.7	702.1	598.8	574.9	588.2	180.2	143.1	119.2	103.3
82.5°	707.4	567.0	463.7	405.4	394.8	172.2	127.2	103.3	90.1	76.8	63.6
85°	378.9	251.7	233.2	196.1	116.6	79.5	66.2	50.3	42.4	34.4	31.8
87.5°	119.2	100.7	82.1	66.2	39.7	26.5	21.2	18.5	15.9	13.2	13.2
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-LD5-170HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2
2.5°	8897.1	8902.4	8899.7	8907.7	8907.7	8918.3	8926.2	8934.2	8950.1	8958.0	9019.0
5°	9011.0	9024.3	9064.0	9101.1	9146.2	9159.4	9236.2	9254.8	9344.9	9355.5	9652.2
7.5°	9265.4	9315.7	9411.1	9506.5	9601.9	9662.8	9768.8	9835.0	9906.6	9970.2	10206.0
10°	9572.7	9657.5	9750.2	9845.6	9901.3	10017.8	10081.4	10092.0	10073.5	9970.2	9588.6
12.5°	9874.8	9959.6	9919.8	9938.4	10004.6	9797.9	9827.1	9678.7	9782.0	9270.7	8891.8
15°	9832.4	9827.1	9729.0	9411.1	9464.1	9069.3	8910.3	8788.5	8886.5	8833.5	8775.2
17.5°	9705.2	9464.1	9294.5	8913.0	8751.4	8640.1	8642.7	8645.4	8597.7	8648.0	8499.7
20°	9167.3	8897.1	8645.4	8510.3	8462.6	8383.1	8422.8	8383.1	8385.7	8401.6	8173.8
22.5°	8452.0	8369.8	8224.1	8266.5	8250.6	8322.1	8269.2	8187.0	8213.5	8094.3	7922.1
25°	8163.2	8067.8	8062.5	8078.4	8054.5	8022.8	7975.1	7850.5	7842.6	7805.5	7726.0
27.5°	7871.7	7877.0	7892.9	7845.2	7760.5	7696.9	7625.3	7564.4	7588.2	7545.8	7437.2
30°	7670.4	7667.7	7572.3	7529.9	7373.6	7376.3	7357.7	7320.6	7296.8	7299.4	7230.5
32.5°	7384.2	7302.1	7193.5	7140.5	7127.2	7079.5	7042.4	7050.4	7068.9	7002.7	7074.2
35°	7090.1	6920.6	6904.7	6859.6	6817.2	6785.4	6798.7	6745.7	6743.0	6735.1	6152.2
37.5°	6695.3	6613.2	6605.3	6557.6	6528.4	6520.5	6470.1	6478.1	6501.9	6544.3	5246.1
40°	6369.5	6295.3	6276.7	6274.1	6210.5	6205.2	6218.4	6268.8	6303.2	6038.3	4999.6
42.5°	6019.7	6025.0	5966.7	5929.6	5937.6	5961.4	6025.0	5850.1	5068.5	4830.1	4570.4
45°	5720.3	5693.8	5662.0	5651.4	5720.3	5672.6	4973.2	4589.0	4496.2	4485.6	3757.0
47.5°	5407.7	5399.7	5386.5	5394.4	5002.3	4459.1	4300.2	4249.8	4265.7	4255.1	3227.1
50°	5092.4	5103.0	5103.0	4456.5	4090.9	4000.8	4014.0	4059.1	3778.2	3526.5	3007.2
52.5°	4819.5	4737.3	4059.1	3825.9	3743.8	3783.5	3688.1	3335.7	3081.4	2933.0	2782.0
55°	4313.4	3709.3	3558.3	3521.2	3550.4	3198.0	2980.7	2752.9	2686.6	2670.7	2583.3
57.5°	3394.0	3272.2	3285.4	3137.0	2800.5	2601.8	2514.4	2482.6	2453.5	2432.3	212.0
60°	3001.9	3036.4	2779.3	2461.4	2326.3	2299.8	2278.6	2249.4	2244.1	2207.1	135.1
62.5°	2747.6	2416.4	2193.8	2114.3	2082.5	2074.6	2034.8	2021.6	1716.9	235.8	100.7
65°	2071.9	1936.8	1894.4	1875.9	1841.4	1841.4	1528.8	241.1	196.1	169.6	90.1
67.5°	1690.4	1679.8	1658.6	1634.8	1112.8	233.2	204.0	177.5	153.7	135.1	79.5
70°	1430.7	1425.4	1298.3	238.5	198.7	174.9	153.7	137.8	127.2	113.9	71.5
72.5°	1173.7	238.5	201.4	174.9	151.0	137.8	124.5	111.3	100.7	92.7	58.3
75°	182.8	161.6	143.1	129.8	119.2	106.0	95.4	87.4	84.8	74.2	39.7
77.5°	132.5	113.9	103.3	92.7	82.1	74.2	63.6	55.6	50.3	42.4	29.1
80°	92.7	82.1	74.2	60.9	53.0	45.0	39.7	34.4	31.8	26.5	13.2
82.5°	53.0	45.0	39.7	31.8	29.1	23.8	21.2	18.5	18.5	13.2	13.2
85°	23.8	23.8	18.5	15.9	13.2	13.2	13.2	10.6	10.6	7.9	7.9
87.5°	10.6	10.6	10.6	10.6	10.6	7.9	7.9	7.9	7.9	7.9	5.3
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-LD5-170HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2
2.5°	9103.8	9138.2	9204.4	9273.3	9196.5	9472.0	9450.8	9543.6	9593.9	9617.8	9673.4
5°	9914.5	10068.2	10118.5	9967.5	9880.1	9790.0	9586.0	9432.3	9450.8	9400.5	9217.7
7.5°	9898.6	9570.1	9127.6	8926.2	8910.3	8886.5	8950.1	8987.2	8992.5	8989.8	8984.5
10°	9061.4	8891.8	8862.7	8836.2	8846.8	8748.7	8703.7	8576.5	8645.4	8608.3	8621.5
12.5°	8807.0	8767.3	8610.9	8393.7	8523.5	8425.5	8369.8	8406.9	8364.5	8324.8	8311.6
15°	8656.0	8399.0	8311.6	8258.6	8221.5	8200.3	8218.8	8176.4	8163.2	8155.2	8173.8
17.5°	8343.3	8240.0	8144.6	8004.2	8006.9	7998.9	8051.9	8131.4	8136.7	7728.7	7360.4
20°	8096.9	8012.2	7890.3	7802.8	7922.1	7710.1	6891.4	6501.9	6441.0	6441.0	6451.6
22.5°	7900.9	7712.8	7720.7	7582.9	6467.5	6239.6	6244.9	6268.8	6160.1	5789.2	5749.5
25°	7633.3	7604.1	7023.9	6070.1	6078.0	5900.5	5627.6	5243.4	4827.4	4827.4	4758.5
27.5°	7431.9	6814.6	5966.7	5927.0	5330.8	4954.6	4721.4	4369.1	4321.4	4276.3	4281.6
30°	7259.7	5765.4	5786.6	4954.6	4514.8	4202.1	4183.6	4125.3	4096.2	4088.2	4059.1
32.5°	5738.9	5614.3	4843.3	4218.0	4045.8	3995.5	3971.6	3905.4	3902.7	3852.4	3502.7
35°	5381.2	4928.1	4053.8	3884.2	3833.9	3786.2	3746.4	2514.4	296.7	119.2	103.3
37.5°	4973.2	4117.4	3749.1	3672.2	3624.5	2678.7	267.6	92.7	66.2	47.7	42.4
40°	4215.4	3677.5	3561.0	3476.2	1433.4	92.7	58.3	45.0	26.5	23.8	21.2
42.5°	3555.7	3465.6	3341.0	1017.4	106.0	45.0	29.1	21.2	18.5	18.5	15.9
45°	3327.8	3248.3	1346.0	100.7	66.2	21.2	18.5	18.5	15.9	10.6	10.6
47.5°	3115.8	2742.3	121.9	63.6	42.4	18.5	15.9	10.6	10.6	10.6	7.9
50°	2890.6	151.0	84.8	47.7	26.5	10.6	10.6	10.6	10.6	7.9	7.9
52.5°	540.5	106.0	68.9	42.4	13.2	10.6	10.6	10.6	7.9	7.9	7.9
55°	127.2	84.8	63.6	37.1	10.6	10.6	10.6	7.9	7.9	7.9	5.3
57.5°	95.4	63.6	50.3	34.4	10.6	7.9	7.9	7.9	7.9	7.9	5.3
60°	79.5	45.0	39.7	31.8	7.9	7.9	7.9	7.9	7.9	7.9	5.3
62.5°	55.6	37.1	29.1	23.8	7.9	7.9	7.9	7.9	7.9	7.9	7.9
65°	45.0	29.1	23.8	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
67.5°	39.7	23.8	15.9	5.3	7.9	7.9	7.9	7.9	7.9	7.9	7.9
70°	31.8	7.9	7.9	5.3	7.9	7.9	7.9	7.9	7.9	7.9	7.9
72.5°	26.5	7.9	5.3	5.3	7.9	7.9	7.9	7.9	7.9	7.9	7.9
75°	26.5	13.2	5.3	5.3	7.9	7.9	10.6	10.6	7.9	7.9	7.9
77.5°	18.5	13.2	5.3	5.3	7.9	7.9	10.6	10.6	7.9	7.9	7.9
80°	10.6	13.2	5.3	7.9	7.9	15.9	18.5	10.6	7.9	7.9	7.9
82.5°	10.6	13.2	15.9	15.9	7.9	13.2	15.9	13.2	10.6	7.9	7.9
85°	10.6	7.9	10.6	13.2	7.9	13.2	13.2	10.6	10.6	7.9	7.9
87.5°	5.3	7.9	7.9	10.6	10.6	10.6	13.2	10.6	10.6	10.6	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-LD5-170HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2
2.5°	9699.9	9710.5	9543.6	9485.3	9535.6	9525.0	9480.0	9313.1	9294.5	9183.2	9021.6
5°	9270.7	9342.2	9254.8	9405.8	9334.3	9405.8	9623.1	9723.7	9888.0	9988.7	10025.8
7.5°	8971.3	8987.2	8987.2	9000.4	9013.7	9016.3	9000.4	8989.8	8944.8	8889.1	8989.8
10°	8608.3	8626.8	8658.6	8653.3	8650.7	8706.3	8719.6	8833.5	8828.2	8849.4	8926.2
12.5°	8420.2	8277.1	8406.9	8372.5	8420.2	8346.0	8483.8	8459.9	8467.9	8531.5	8695.7
15°	8107.5	8152.6	8184.4	8184.4	8202.9	8187.0	8171.1	8279.8	8346.0	8348.6	8338.0
17.5°	7506.1	7164.3	7514.0	7424.0	8142.0	8160.5	8099.6	8049.2	8049.2	8089.0	8173.8
20°	6443.6	6451.6	6454.2	6488.7	6531.1	6528.4	6531.1	7575.0	8070.4	7956.5	7879.7
22.5°	5648.8	5550.7	5733.6	5720.3	5948.2	6199.9	6441.0	6417.1	6433.0	7169.6	7832.0
25°	4528.0	4655.2	4551.9	4596.9	4853.9	5153.3	5338.8	5823.7	6350.9	6313.8	6486.0
27.5°	4263.1	4228.6	4276.3	4276.3	4310.8	4350.5	4453.8	4726.7	5195.7	5688.5	6154.8
30°	4011.4	4040.5	4045.8	4093.5	4120.0	4146.5	4162.4	4265.7	4371.7	4713.5	5288.4
32.5°	3012.5	2641.6	3476.2	3701.4	3892.1	3937.2	3969.0	4011.4	4088.2	4138.6	4427.4
35°	87.4	87.4	92.7	106.0	135.1	911.4	3470.9	3825.9	3876.3	3939.8	3992.8
37.5°	42.4	31.8	37.1	39.7	47.7	66.2	95.4	296.7	3304.0	3735.8	3794.1
40°	18.5	18.5	18.5	18.5	21.2	26.5	39.7	66.2	100.7	2657.5	3584.8
42.5°	15.9	15.9	15.9	15.9	15.9	15.9	18.5	23.8	47.7	113.9	1881.2
45°	10.6	10.6	7.9	10.6	10.6	13.2	15.9	15.9	21.2	71.5	129.8
47.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	13.2	15.9	47.7	68.9
50°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	37.1	47.7
52.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	15.9	42.4
55°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	7.9	7.9	10.6	37.1
57.5°	5.3	5.3	5.3	5.3	5.3	7.9	5.3	5.3	7.9	7.9	34.4
60°	5.3	5.3	5.3	5.3	5.3	7.9	7.9	7.9	7.9	7.9	31.8
62.5°	7.9	7.9	5.3	7.9	5.3	5.3	7.9	7.9	7.9	7.9	21.2
65°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	5.3	7.9
67.5°	7.9	7.9	7.9	7.9	5.3	7.9	5.3	7.9	7.9	5.3	5.3
70°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	5.3	5.3	5.3	5.3
72.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	5.3	5.3	5.3	5.3
75°	7.9	7.9	7.9	7.9	7.9	7.9	10.6	10.6	5.3	5.3	5.3
77.5°	7.9	7.9	7.9	7.9	7.9	7.9	13.2	15.9	13.2	13.2	5.3
80°	7.9	7.9	7.9	7.9	7.9	7.9	13.2	13.2	13.2	13.2	18.5
82.5°	7.9	7.9	7.9	7.9	7.9	7.9	10.6	10.6	10.6	10.6	13.2
85°	7.9	7.9	7.9	7.9	7.9	7.9	10.6	10.6	10.6	7.9	10.6
87.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	10.6	7.9	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-LD5-170HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2
2.5°	9034.9	8944.8	8915.6	8854.7	8849.4	8854.7	8841.5	8822.9	8833.5	8815.0	8799.1
5°	10047.0	9805.9	9649.6	9440.2	9151.5	9087.9	9072.0	8981.9	8950.1	8939.5	8897.1
7.5°	9228.3	9668.1	9933.1	10023.1	9684.0	9604.5	9511.8	9437.6	9366.1	9230.9	9148.8
10°	8865.3	8886.5	9140.9	9437.6	9919.8	9986.0	10036.4	9874.8	9829.7	9485.3	9411.1
12.5°	8780.5	8783.2	8812.3	8992.5	9371.4	9413.8	9591.3	9686.7	9803.2	9869.5	9816.5
15°	8393.7	8608.3	8767.3	8783.2	8817.6	8891.8	8944.8	9276.0	9416.4	9792.6	9771.4
17.5°	8213.5	8282.4	8512.9	8701.0	8669.2	8642.7	8685.1	8730.2	8865.3	9241.5	9236.2
20°	7914.1	8134.0	8258.6	8454.6	8632.1	8640.1	8592.4	8565.9	8512.9	8573.9	8629.5
22.5°	7786.9	7821.4	8054.5	8192.3	8393.7	8465.2	8475.8	8478.5	8449.3	8417.5	8401.6
25°	7773.7	7665.1	7784.3	7956.5	8104.9	8181.7	8269.2	8298.3	8287.7	8287.7	8271.8
27.5°	6361.5	7630.6	7567.0	7681.0	7861.1	7914.1	7959.2	8049.2	8104.9	8144.6	8163.2
30°	6059.5	6287.3	7397.5	7413.4	7596.2	7590.9	7641.2	7715.4	7786.9	7879.7	7903.5
32.5°	5360.0	5919.0	6772.2	7145.8	7336.5	7355.1	7381.6	7402.8	7469.0	7572.3	7662.4
35°	4294.9	5391.8	5802.5	7018.6	7053.0	7090.1	7106.0	7156.4	7177.6	7219.9	7299.4
37.5°	3886.8	4456.5	5566.6	6070.1	6727.1	6758.9	6843.7	6864.9	6899.4	6933.8	6994.7
40°	3651.0	3807.4	4634.0	5420.9	6464.8	6486.0	6515.2	6568.2	6570.8	6610.6	6666.2
42.5°	3462.9	3563.6	3804.7	5177.2	6279.4	6276.7	6207.8	6242.3	6258.2	6300.6	6377.4
45°	2766.1	3343.7	3497.4	4228.6	4999.6	5360.0	6051.5	5937.6	5934.9	5950.8	6033.0
47.5°	140.4	3145.0	3253.6	3489.4	4721.4	4734.7	4824.8	5582.5	5699.1	5662.0	5670.0
50°	95.4	217.3	3031.1	3139.7	4069.7	4398.2	4464.4	4498.9	4936.1	5423.6	5344.1
52.5°	74.2	124.5	1857.3	2914.5	3306.6	3547.7	3974.3	4218.0	4244.5	4440.6	5105.6
55°	66.2	95.4	201.4	2689.3	2811.1	2864.1	3113.2	3539.8	3884.2	3987.5	3995.5
57.5°	58.3	87.4	137.8	1216.1	2556.8	2567.4	2609.8	2758.2	3068.1	3351.6	3672.2
60°	53.0	76.8	108.6	209.3	2323.6	2350.1	2358.1	2397.8	2434.9	2628.3	2996.6
62.5°	31.8	60.9	95.4	151.0	1838.8	2111.7	2109.0	2135.5	2170.0	2191.2	2265.3
65°	26.5	47.7	82.1	127.2	225.2	280.8	1706.3	1897.1	1918.3	1947.4	1960.6
67.5°	23.8	42.4	60.9	100.7	169.6	193.4	222.6	275.6	1504.9	1695.7	1722.2
70°	21.2	29.1	50.3	84.8	137.8	148.4	166.9	190.8	225.2	278.2	1361.9
72.5°	13.2	21.2	34.4	60.9	106.0	119.2	129.8	145.7	161.6	193.4	222.6
75°	5.3	15.9	29.1	45.0	82.1	90.1	98.0	108.6	121.9	143.1	159.0
77.5°	5.3	13.2	23.8	31.8	53.0	60.9	71.5	79.5	90.1	100.7	116.6
80°	18.5	10.6	15.9	23.8	37.1	39.7	45.0	50.3	58.3	66.2	76.8
82.5°	13.2	15.9	18.5	15.9	18.5	23.8	26.5	31.8	34.4	39.7	42.4
85°	10.6	10.6	13.2	13.2	13.2	13.2	13.2	13.2	15.9	18.5	23.8
87.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	10.6	10.6
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-LD5-170HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2
2.5°	8799.1	8793.8	8777.9	8777.9	8775.2	8785.8	8793.8	8801.7	8799.1	8815.0	8799.1
5°	8865.3	8852.1	8828.2	8807.0	8799.1	8804.4	8796.4	8804.4	8793.8	8807.0	8783.2
7.5°	9048.1	9003.1	8910.3	8873.3	8825.6	8822.9	8799.1	8793.8	8777.9	8777.9	8748.7
10°	9371.4	9154.1	9127.6	9016.3	8976.6	8783.2	8825.6	8754.0	8746.1	8711.6	8698.4
12.5°	9636.3	9466.7	9416.4	9318.4	9207.1	8815.0	8902.4	8748.7	8740.8	8671.9	8600.3
15°	9641.6	9739.6	9601.9	9331.6	9307.8	9037.5	8860.0	8807.0	8738.1	8531.5	8565.9
17.5°	9331.6	9556.8	9623.1	9564.8	9395.2	9212.4	8963.3	8857.4	8650.7	8558.0	8494.4
20°	8828.2	9056.1	9339.6	9358.1	9464.1	9334.3	9008.4	8836.2	8587.1	8425.5	8372.5
22.5°	8428.1	8595.1	8920.9	9072.0	9201.8	9246.8	9040.2	8785.8	8475.8	8319.5	8287.7
25°	8216.2	8253.3	8351.3	8528.8	8815.0	9021.6	9050.8	8780.5	8618.9	8277.1	8096.9
27.5°	8139.3	8107.5	8067.8	8157.9	8372.5	8624.2	8791.1	8836.2	8433.4	8107.5	7927.4
30°	7943.3	7961.8	7900.9	7869.1	8009.5	8269.2	8565.9	8640.1	8330.1	7993.6	7786.9
32.5°	7702.2	7734.0	7744.6	7688.9	7659.8	7839.9	8160.5	8338.0	8322.1	7832.0	7601.5
35°	7400.1	7490.2	7514.0	7516.7	7469.0	7439.9	7625.3	7993.6	8134.0	7757.8	7424.0
37.5°	7082.2	7108.7	7238.5	7272.9	7272.9	7185.5	7323.3	7617.4	7813.4	7590.9	7206.7
40°	6684.7	6769.5	6891.4	6952.3	7013.3	7021.2	6944.4	7151.1	7474.3	7418.7	7002.7
42.5°	6395.9	6451.6	6525.8	6607.9	6732.4	6764.2	6684.7	6721.8	7058.3	7204.1	6737.7
45°	6059.5	6133.6	6154.8	6244.9	6374.8	6467.5	6464.8	6388.0	6658.2	6838.4	6544.3
47.5°	5715.0	5786.6	5823.7	5868.7	5964.1	6083.3	6149.5	6115.1	6168.1	6520.5	6287.3
50°	5360.0	5399.7	5473.9	5524.3	5587.8	5656.7	5815.7	5847.5	5773.3	6054.2	6003.8
52.5°	5023.5	5036.7	5087.1	5137.4	5222.2	5272.5	5399.7	5495.1	5489.8	5571.9	5688.5
55°	4761.2	4702.9	4713.5	4753.2	4808.9	4885.7	4957.3	5105.6	5156.0	5171.9	5357.3
57.5°	3719.9	4318.7	4371.7	4369.1	4435.3	4469.7	4536.0	4634.0	4814.2	4774.4	4981.1
60°	3380.8	3447.0	3947.8	4006.1	4029.9	4061.7	4141.2	4231.3	4363.8	4448.5	4538.6
62.5°	2578.0	2980.7	3131.7	3574.2	3643.1	3661.6	3714.6	3757.0	3894.8	4088.2	4051.1
65°	1995.1	2167.3	2628.3	2808.5	3184.7	3232.4	3306.6	3351.6	3391.4	3613.9	3624.5
67.5°	1724.8	1751.3	1875.9	2222.9	2461.4	2829.7	2874.7	2914.5	2975.4	3134.4	3232.4
70°	1473.1	1504.9	1539.4	1568.5	1878.5	2122.3	2464.1	2477.3	2517.0	2623.0	2845.6
72.5°	278.2	1258.5	1279.7	1298.3	1332.7	1494.3	1820.2	2085.2	2101.1	2151.4	2355.4
75°	188.1	219.9	302.0	1038.6	1073.1	1083.7	1139.3	1470.5	1714.2	1724.8	1814.9
77.5°	135.1	151.0	182.8	217.3	553.8	832.0	845.2	906.1	1157.8	1340.7	1356.6
80°	92.7	103.3	121.9	137.8	169.6	222.6	614.7	633.2	665.0	916.7	964.4
82.5°	53.0	60.9	71.5	87.4	100.7	127.2	164.3	212.0	431.9	461.0	612.0
85°	26.5	29.1	34.4	42.4	50.3	60.9	82.1	100.7	137.8	249.1	257.0
87.5°	13.2	13.2	13.2	13.2	21.2	23.8	29.1	37.1	47.7	71.5	92.7
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-LD5-170HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2
2.5°	8801.7	8838.8	8870.6	8878.5	8878.5	8883.8	8891.8	8897.1	8902.4	8907.7	8902.4
5°	8785.8	8825.6	8852.1	8860.0	8860.0	8875.9	8889.1	8905.0	8913.0	8913.0	8907.7
7.5°	8746.1	8775.2	8809.7	8830.9	8833.5	8860.0	8883.8	8881.2	8891.8	8897.1	8910.3
10°	8693.1	8693.1	8751.4	8767.3	8780.5	8809.7	8817.6	8833.5	8870.6	8875.9	8910.3
12.5°	8666.6	8640.1	8709.0	8716.9	8762.0	8724.9	8772.6	8788.5	8751.4	8801.7	8735.5
15°	8547.4	8579.2	8568.6	8592.4	8671.9	8629.5	8759.3	8716.9	8812.3	8698.4	8899.7
17.5°	8449.3	8444.0	8486.4	8507.6	8523.5	8613.6	8648.0	8695.7	8732.8	8701.0	8780.5
20°	8377.8	8335.4	8367.2	8391.0	8446.7	8515.6	8536.8	8465.2	8589.8	8801.7	8852.1
22.5°	8242.7	8213.5	8250.6	8250.6	8335.4	8324.8	8404.3	8359.2	8475.8	8722.2	8979.2
25°	8059.8	8062.5	8102.2	8149.9	8165.8	8285.1	8327.4	8385.7	8531.5	8825.6	8981.9
27.5°	7874.4	7858.5	7882.3	7980.4	8062.5	8149.9	8163.2	8361.9	8560.6	8762.0	8899.7
30°	7688.9	7673.0	7688.9	7760.5	7858.5	7916.8	8062.5	8327.4	8512.9	8650.7	8780.5
32.5°	7490.2	7474.3	7511.4	7564.4	7736.6	7744.6	8033.4	8282.4	8428.1	8528.8	8505.0
35°	7278.2	7257.0	7291.5	7373.6	7532.6	7590.9	7892.9	8078.4	8242.7	8290.4	8179.1
37.5°	7023.9	6986.8	7029.2	7143.1	7310.0	7479.6	7731.3	7945.9	8033.4	7906.2	7773.7
40°	6758.9	6732.4	6806.6	6864.9	7061.0	7296.8	7585.6	7736.6	7681.0	7535.2	7389.5
42.5°	6523.1	6467.5	6533.7	6645.0	6867.6	7135.2	7368.3	7453.1	7320.6	7106.0	6936.4
45°	6234.3	6168.1	6247.6	6395.9	6634.4	6939.1	7121.9	7092.8	6867.6	6682.1	6448.9
47.5°	5932.3	5852.8	5932.3	6109.8	6377.4	6700.6	6833.1	6700.6	6417.1	6184.0	5995.9
50°	5635.5	5542.8	5619.6	5887.2	6149.5	6398.6	6395.9	6138.9	5969.4	5715.0	5550.7
52.5°	5341.4	5209.0	5285.8	5577.2	5839.5	6123.0	5913.7	5675.3	5471.3	5248.7	5195.7
55°	4978.5	4835.4	4938.7	5362.6	5564.0	5730.9	5397.1	5187.8	4986.4	4875.1	4808.9
57.5°	4634.0	4477.7	4567.8	5068.5	5216.9	5259.3	4952.0	4655.2	4536.0	4498.9	4403.5
60°	4279.0	4101.5	4186.2	4763.8	4867.2	4695.0	4392.9	4162.4	4138.6	4064.4	3990.2
62.5°	3939.8	3743.8	3796.8	4385.0	4432.7	4120.0	3841.8	3780.9	3722.6	3648.4	3608.6
65°	3550.4	3346.3	3420.5	3982.2	3937.2	3534.5	3378.1	3364.9	3288.1	3227.1	3285.4
67.5°	3192.7	2951.6	3054.9	3542.4	3338.4	3009.9	2946.3	2914.5	2853.5	2888.0	2275.9
70°	2800.5	2538.2	2678.7	3068.1	2766.1	2548.8	2525.0	2477.3	2480.0	1971.2	1661.3
72.5°	2363.4	2135.5	2339.5	2548.8	2188.5	2124.9	2090.5	2085.2	1682.4	1367.2	1290.3
75°	1979.2	1748.7	1968.6	2048.1	1743.4	1701.0	1698.3	1404.2	1104.9	1054.5	1030.7
77.5°	1544.7	1367.2	1576.5	1457.2	1338.0	1290.3	1157.8	869.0	832.0	797.5	299.4
80°	1041.3	1054.5	1176.4	1004.2	953.8	813.4	641.2	614.7	529.9	212.0	166.9
82.5°	633.2	794.9	749.8	627.9	614.7	442.5	405.4	206.7	153.7	121.9	106.0
85°	328.5	402.7	386.8	341.8	254.4	227.9	127.2	98.0	79.5	60.9	50.3
87.5°	111.3	148.4	143.1	113.9	87.4	68.9	45.0	37.1	26.5	21.2	18.5
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-LD5-170HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2
2.5°	8897.1	8897.1	8891.8	8897.1	8899.7	8894.4	8894.4	8899.7	8902.4	8905.0	8918.3
5°	8910.3	8915.6	8923.6	8939.5	8942.1	8973.9	8987.2	8995.1	9003.1	9005.7	8987.2
7.5°	8939.5	8958.0	8973.9	8971.3	8952.7	8902.4	8886.5	8873.3	8897.1	8958.0	9029.6
10°	8966.0	8881.2	8722.2	8939.5	8873.3	8934.2	9114.4	9154.1	9276.0	9448.2	9498.5
12.5°	8783.2	9016.3	9066.7	8822.9	9273.3	9106.4	9305.1	9480.0	9530.3	9705.2	9599.2
15°	8979.2	9093.2	9170.0	9413.8	9387.3	9530.3	9586.0	9551.5	9559.5	9604.5	9723.7
17.5°	8976.6	9204.4	9254.8	9419.1	9530.3	9533.0	9517.1	9501.2	9543.6	9578.0	9506.5
20°	9130.3	9204.4	9302.5	9368.7	9389.9	9416.4	9466.7	9427.0	9347.5	9270.7	9238.9
22.5°	9053.4	9220.3	9305.1	9315.7	9302.5	9220.3	9146.2	9034.9	8997.8	8958.0	8971.3
25°	9069.3	9146.2	9135.6	9093.2	9037.5	8883.8	8846.8	8799.1	8727.5	8555.3	8399.0
27.5°	8955.4	8915.6	8868.0	8764.6	8663.9	8581.8	8489.1	8335.4	8208.2	8022.8	7953.9
30°	8764.6	8605.6	8489.1	8428.1	8330.1	8192.3	8051.9	7863.8	7702.2	7665.1	7630.6
32.5°	8399.0	8242.7	8147.3	7998.9	7832.0	7667.7	7506.1	7431.9	7397.5	7402.8	7371.0
35°	8025.4	7887.6	7744.6	7522.0	7397.5	7233.2	7174.9	7159.0	7127.2	7092.8	7055.7
37.5°	7628.0	7466.4	7251.7	7119.3	6994.7	6928.5	6899.4	6875.5	6819.9	6758.9	6716.5
40°	7243.8	6952.3	6833.1	6703.3	6666.2	6637.1	6594.7	6536.4	6459.5	6448.9	6430.4
42.5°	6729.8	6520.5	6417.1	6390.6	6345.6	6295.3	6258.2	6194.6	6162.8	6184.0	6199.9
45°	6242.3	6136.3	6101.9	6070.1	5985.3	5913.7	5889.9	5868.7	5895.2	6011.8	5733.6
47.5°	5847.5	5805.1	5762.7	5709.7	5630.2	5577.2	5601.1	5622.3	5646.1	4790.3	4371.7
50°	5505.7	5447.4	5381.2	5322.9	5275.2	5269.9	5394.4	5020.8	4204.8	4183.6	3759.7
52.5°	5132.1	5044.7	5004.9	4970.5	4991.7	5071.2	4196.8	3894.8	3735.8	3245.7	3028.4
55°	4729.4	4652.6	4652.6	4684.4	4570.4	3704.0	3659.0	3163.5	2864.1	2779.3	2744.9
57.5°	4326.7	4318.7	4363.8	3990.2	3362.2	3224.5	2710.5	2601.8	2554.1	2543.5	2487.9
60°	3958.4	4032.6	3375.5	3105.2	2699.9	2434.9	2360.7	2347.5	2297.1	2278.6	2228.2
62.5°	3664.3	3039.0	2829.7	2310.4	2175.3	2140.8	2101.1	2082.5	2037.5	1799.0	527.3
65°	2646.9	2501.1	2029.5	1942.1	1931.5	1881.2	1865.3	1677.1	394.8	265.0	225.2
67.5°	1997.7	1772.5	1711.6	1695.7	1645.4	1544.7	458.4	262.3	225.2	196.1	172.2
70°	1534.1	1494.3	1449.3	1412.2	416.0	259.7	225.2	190.8	164.3	145.7	132.5
72.5°	1255.9	1229.4	715.4	272.9	222.6	188.1	166.9	145.7	127.2	116.6	106.0
75°	983.0	272.9	225.2	188.1	161.6	137.8	121.9	108.6	98.0	90.1	82.1
77.5°	222.6	180.2	153.7	129.8	116.6	103.3	92.7	79.5	71.5	63.6	53.0
80°	137.8	119.2	100.7	92.7	79.5	66.2	58.3	53.0	42.4	39.7	34.4
82.5°	90.1	71.5	63.6	53.0	42.4	39.7	34.4	26.5	23.8	21.2	18.5
85°	39.7	34.4	29.1	23.8	18.5	15.9	13.2	10.6	10.6	10.6	10.6
87.5°	13.2	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	5.3	5.3
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-LD5-170HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2
2.5°	8923.6	8971.3	9016.3	9003.1	8955.4	8881.2	8860.0	8830.9	8852.1	8897.1	8915.6
5°	8987.2	8960.7	9056.1	9196.5	9424.4	9445.5	9604.5	9641.6	9768.8	9848.3	9845.6
7.5°	9077.3	9453.5	9609.8	9779.4	9856.2	9837.7	9861.5	9843.0	9813.8	9800.6	9784.7
10°	9535.6	9821.8	9880.1	9880.1	9760.8	9599.2	9530.3	9411.1	9172.6	9177.9	9138.2
12.5°	9803.2	9903.9	9766.1	9649.6	9170.0	8984.5	8783.2	8687.8	8632.1	8547.4	8579.2
15°	9662.8	9519.7	9437.6	9061.4	8767.3	8433.4	8438.7	8380.4	8319.5	8324.8	8285.1
17.5°	9456.1	9342.2	8759.3	8499.7	8356.6	8226.8	8202.9	8126.1	8086.3	8073.1	8070.4
20°	9172.6	8762.0	8327.4	8263.9	8091.6	7943.3	7919.4	7943.3	8065.1	7847.9	7111.3
22.5°	8841.5	8250.6	8123.4	7943.3	7826.7	7768.4	7914.1	7251.7	6250.2	6372.1	6242.3
25°	8279.8	8022.8	7805.5	7667.7	7654.5	7296.8	6080.7	5953.5	5309.6	4965.2	4578.4
27.5°	7869.1	7757.8	7529.9	7506.1	7333.9	5966.7	5333.5	4634.0	4377.0	4337.3	4252.5
30°	7620.0	7461.1	7323.3	6721.8	5852.8	4803.6	4279.0	4180.9	4135.9	4088.2	4014.0
32.5°	7320.6	7169.6	7235.8	5651.4	4665.8	4135.9	4029.9	3958.4	3876.3	3844.5	3576.9
35°	7015.9	6947.0	5654.1	4750.6	4011.4	3884.2	3804.7	3730.5	2967.5	718.0	243.8
37.5°	6690.0	6674.1	5081.8	3942.5	3757.0	3637.8	3412.6	704.8	166.9	113.9	84.8
40°	6435.7	5084.4	4016.7	3696.1	3545.1	3356.9	471.6	116.6	74.2	45.0	29.1
42.5°	6266.1	4573.1	3595.4	3468.2	3139.7	347.1	119.2	50.3	29.1	23.8	18.5
45°	4830.1	3611.3	3359.6	3227.1	397.4	119.2	68.9	23.8	18.5	15.9	10.6
47.5°	4456.5	3280.1	3131.7	704.8	132.5	63.6	47.7	15.9	10.6	10.6	10.6
50°	3375.5	3031.1	2493.2	172.2	84.8	45.0	34.4	10.6	10.6	10.6	7.9
52.5°	2959.5	2797.9	267.6	113.9	66.2	34.4	21.2	7.9	7.9	7.9	7.9
55°	2705.2	1775.2	159.0	87.4	55.6	31.8	13.2	7.9	7.9	7.9	5.3
57.5°	2474.7	238.5	116.6	74.2	50.3	29.1	7.9	7.9	7.9	7.9	5.3
60°	2098.4	172.2	95.4	66.2	47.7	26.5	7.9	7.9	7.9	7.9	7.9
62.5°	272.9	135.1	82.1	58.3	34.4	21.2	5.3	7.9	7.9	7.9	7.9
65°	198.7	106.0	74.2	39.7	21.2	7.9	5.3	7.9	7.9	7.9	7.9
67.5°	153.7	87.4	55.6	34.4	18.5	5.3	5.3	7.9	7.9	7.9	7.9
70°	121.9	74.2	45.0	29.1	15.9	5.3	5.3	7.9	7.9	7.9	7.9
72.5°	95.4	53.0	31.8	15.9	10.6	5.3	5.3	7.9	7.9	7.9	7.9
75°	71.5	42.4	23.8	13.2	5.3	5.3	5.3	7.9	7.9	7.9	7.9
77.5°	47.7	26.5	18.5	10.6	10.6	10.6	13.2	13.2	7.9	7.9	7.9
80°	31.8	18.5	13.2	13.2	13.2	10.6	13.2	13.2	7.9	13.2	7.9
82.5°	15.9	13.2	13.2	10.6	10.6	7.9	10.6	10.6	10.6	10.6	7.9
85°	10.6	7.9	7.9	7.9	7.9	7.9	7.9	7.9	10.6	10.6	7.9
87.5°	5.3	5.3	5.3	5.3	7.9	7.9	7.9	7.9	10.6	10.6	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-LD5-170HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2
2.5°	8891.8	8899.7	8878.5	8992.5	8934.2	8939.5	8963.3	8902.4	8915.6	8873.3	8844.1
5°	9856.2	9872.1	9888.0	9893.3	9903.9	9917.2	9901.3	9893.3	9877.4	9824.4	9768.8
7.5°	9705.2	9686.7	9678.7	9689.3	9707.8	9715.8	9702.6	9721.1	9790.0	9819.1	9837.7
10°	8910.3	8825.6	8883.8	8875.9	8809.7	9032.2	8971.3	9005.7	9029.6	9273.3	9421.7
12.5°	8531.5	8584.5	8483.8	8433.4	8499.7	8544.7	8589.8	8494.4	8626.8	8565.9	8762.0
15°	8213.5	8181.7	8171.1	8173.8	8160.5	8224.1	8240.0	8261.2	8279.8	8361.9	8393.7
17.5°	8070.4	8123.4	8144.6	8160.5	8134.0	8104.9	8075.7	8033.4	8046.6	8025.4	8086.3
20°	6615.9	6438.3	6427.7	6531.1	6417.1	6480.7	6634.4	7662.4	7628.0	8028.1	7892.9
22.5°	5521.6	5354.7	5211.6	5087.1	5264.6	5338.8	5624.9	5948.2	6472.8	6390.6	6960.3
25°	4509.5	4448.5	4411.5	4392.9	4406.2	4400.9	4464.4	4615.5	4853.9	5415.6	6141.6
27.5°	4218.0	4188.9	4175.6	4133.3	4165.0	4154.5	4204.8	4236.6	4308.1	4363.8	4599.6
30°	3987.5	3953.1	3929.2	3884.2	3916.0	3918.6	3934.5	4016.7	4045.8	4093.5	4167.7
32.5°	1457.2	858.4	805.5	765.7	837.2	1091.6	1915.6	3349.0	3820.6	3857.7	3942.5
35°	143.1	119.2	106.0	106.0	108.6	119.2	159.0	418.6	765.7	2959.5	3704.0
37.5°	55.6	47.7	39.7	37.1	39.7	45.0	60.9	79.5	108.6	225.2	1004.2
40°	23.8	21.2	18.5	18.5	18.5	18.5	21.2	26.5	39.7	74.2	116.6
42.5°	15.9	13.2	13.2	13.2	13.2	13.2	13.2	13.2	18.5	23.8	47.7
45°	10.6	7.9	7.9	7.9	7.9	7.9	7.9	7.9	10.6	13.2	21.2
47.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	10.6
50°	7.9	7.9	7.9	7.9	5.3	7.9	5.3	7.9	7.9	7.9	7.9
52.5°	7.9	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	7.9	7.9
55°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	7.9
57.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
60°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
62.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	7.9	7.9	5.3
65°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	7.9	5.3
67.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
70°	7.9	7.9	5.3	7.9	5.3	5.3	7.9	7.9	7.9	5.3	5.3
72.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	15.9	15.9	10.6
75°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	13.2	15.9	13.2
77.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	13.2	13.2	13.2
80°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	10.6	10.6	10.6
82.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	10.6	10.6	10.6
85°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
87.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	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-LD5-170HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2
2.5°	8793.8	8791.1	8846.8	8889.1	8873.3	8889.1	8907.7	8910.3	8915.6	8894.4	8886.5
5°	9662.8	9580.7	9421.7	9307.8	9175.3	8934.2	8815.0	8828.2	8830.9	8822.9	8833.5
7.5°	9829.7	9821.8	9766.1	9742.3	9652.2	9480.0	9204.4	9156.7	9040.2	8966.0	8905.0
10°	9411.1	9601.9	9652.2	9737.0	9790.0	9758.2	9525.0	9490.6	9416.4	9331.6	9350.2
12.5°	8958.0	9114.4	9122.3	9583.3	9686.7	9697.3	9607.2	9654.9	9665.5	9474.7	9363.4
15°	8401.6	8475.8	8632.1	9061.4	9374.0	9570.1	9628.4	9654.9	9525.0	9517.1	9472.0
17.5°	8157.9	8205.6	8277.1	8518.2	8992.5	9281.3	9527.7	9509.1	9559.5	9522.4	9408.5
20°	7850.5	7890.3	8017.5	8139.3	8372.5	8756.7	9217.7	9252.1	9318.4	9310.4	9342.2
22.5°	7845.2	7704.8	7726.0	7821.4	8065.1	8409.6	8899.7	9013.7	9056.1	9085.2	9119.7
25°	6223.7	7339.2	7543.2	7604.1	7763.1	7964.5	8542.1	8584.5	8663.9	8793.8	8889.1
27.5°	5391.8	6149.5	6965.6	7389.5	7490.2	7657.1	8001.6	8065.1	8335.4	8367.2	8515.6
30°	4255.1	4840.7	6059.5	7079.5	7246.4	7363.0	7606.8	7734.0	7850.5	7977.7	8134.0
32.5°	4003.4	4096.2	4771.8	5858.1	7156.4	7068.9	7249.1	7325.9	7453.1	7564.4	7678.3
35°	3772.9	3836.5	3979.6	4798.3	5828.9	6827.8	6949.7	7000.0	7071.6	7156.4	7238.5
37.5°	3531.8	3627.2	3725.2	3945.1	5391.8	6637.1	6634.4	6692.7	6735.1	6806.6	6875.5
40°	641.2	3330.4	3489.4	3632.5	4180.9	5293.7	6337.7	6364.2	6393.3	6438.3	6509.9
42.5°	103.3	556.4	3269.5	3407.3	3563.6	4740.0	6202.5	6093.9	6075.4	6107.1	6170.7
45°	53.0	135.1	657.1	3182.1	3322.5	3780.9	5071.2	5905.8	5887.2	5826.3	5839.5
47.5°	39.7	84.8	161.6	1099.6	3110.5	3245.7	4679.1	4628.7	4981.1	5656.7	5553.4
50°	34.4	58.3	95.4	225.2	2747.6	2988.7	3603.4	4210.1	4395.6	4419.4	5230.2
52.5°	31.8	39.7	68.9	145.7	577.6	2763.5	2930.4	3142.3	3455.0	4125.3	4109.4
55°	29.1	37.1	58.3	98.0	201.4	2490.6	2662.8	2702.5	2768.8	3089.3	3513.3
57.5°	15.9	34.4	55.6	84.8	151.0	455.7	2416.4	2448.2	2501.1	2514.4	2665.4
60°	7.9	31.8	50.3	74.2	111.3	212.0	2172.6	2209.7	2241.5	2246.8	2294.5
62.5°	5.3	29.1	42.4	68.9	92.7	151.0	514.0	1049.2	1995.1	1995.1	2050.7
65°	5.3	21.2	26.5	45.0	84.8	124.5	217.3	251.7	490.2	1205.5	1799.0
67.5°	5.3	7.9	23.8	37.1	63.6	95.4	159.0	185.5	222.6	254.4	471.6
70°	5.3	5.3	21.2	23.8	39.7	71.5	113.9	129.8	151.0	172.2	198.7
72.5°	5.3	5.3	18.5	18.5	26.5	47.7	87.4	95.4	108.6	121.9	140.4
75°	13.2	10.6	15.9	15.9	18.5	37.1	66.2	74.2	79.5	90.1	103.3
77.5°	13.2	13.2	13.2	13.2	13.2	23.8	42.4	47.7	55.6	60.9	71.5
80°	10.6	10.6	10.6	13.2	13.2	15.9	26.5	29.1	31.8	39.7	42.4
82.5°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	15.9	18.5	23.8
85°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	10.6	10.6	10.6	10.6
87.5°	7.9	7.9	7.9	5.3	5.3	7.9	7.9	7.9	7.9	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-LD5-170HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2
2.5°	8883.8	8868.0	8854.7	8862.7	8838.8	8828.2	8836.2	8838.8	8844.1	8857.4	8860.0
5°	8860.0	8854.7	8878.5	8891.8	8886.5	8891.8	8891.8	8881.2	8865.3	8875.9	8852.1
7.5°	8844.1	8809.7	8783.2	8788.5	8762.0	8793.8	8822.9	8865.3	8878.5	8878.5	8852.1
10°	9117.0	9079.9	8931.5	8830.9	8764.6	8706.3	8844.1	8703.7	8769.9	8518.2	8807.0
12.5°	9342.2	9392.6	9326.3	9050.8	9003.1	8828.2	8928.9	8756.7	8706.3	8417.5	8510.3
15°	9432.3	9336.9	9315.7	9238.9	9135.6	9085.2	8815.0	8785.8	8703.7	8735.5	8613.6
17.5°	9352.8	9400.5	9336.9	9286.6	9180.6	9061.4	8899.7	8756.7	8642.7	8388.4	8603.0
20°	9276.0	9339.6	9148.8	9180.6	9191.2	9053.4	8968.6	8849.4	8706.3	8467.9	8282.4
22.5°	9148.8	9103.8	9119.7	9072.0	9032.2	9050.8	8934.2	8852.1	8610.9	8502.3	8250.6
25°	8942.1	8926.2	8968.6	8963.3	8868.0	8836.2	8777.9	8690.4	8595.1	8420.2	8213.5
27.5°	8605.6	8687.8	8762.0	8796.4	8746.1	8661.3	8629.5	8579.2	8512.9	8335.4	8181.7
30°	8250.6	8343.3	8428.1	8502.3	8547.4	8510.3	8481.1	8452.0	8351.3	8234.7	8062.5
32.5°	7845.2	7967.1	8083.7	8173.8	8271.8	8301.0	8279.8	8255.9	8171.1	8065.1	7927.4
35°	7376.3	7543.2	7712.8	7874.4	7916.8	7985.7	8054.5	8014.8	7969.8	7863.8	7736.6
37.5°	6978.8	7098.1	7219.9	7424.0	7572.3	7659.8	7781.6	7797.5	7720.7	7670.4	7503.4
40°	6568.2	6676.8	6854.3	6973.5	7177.6	7278.2	7408.1	7466.4	7447.8	7418.7	7272.9
42.5°	6244.9	6297.9	6414.5	6520.5	6721.8	6928.5	7042.4	7106.0	7172.3	7148.4	7074.2
45°	5900.5	5948.2	5987.9	6080.7	6276.7	6459.5	6600.0	6695.3	6814.6	6870.2	6780.1
47.5°	5558.7	5571.9	5619.6	5696.5	5813.1	5953.5	6189.3	6332.4	6443.6	6552.3	6494.0
50°	5296.4	5248.7	5256.7	5304.3	5399.7	5537.5	5707.1	5908.4	6035.6	6168.1	6181.3
52.5°	4628.7	5015.5	4922.8	4949.3	4999.6	5065.9	5243.4	5442.1	5598.4	5712.4	5826.3
55°	3884.2	3961.0	4705.6	4599.6	4631.4	4689.7	4771.8	4970.5	5121.5	5280.5	5439.5
57.5°	3012.5	3584.8	3613.9	4302.8	4286.9	4292.2	4361.1	4475.0	4626.1	4824.8	4959.9
60°	2342.2	2583.3	3052.2	3290.7	3894.8	3916.0	3955.7	4022.0	4151.8	4339.9	4554.5
62.5°	2066.6	2098.4	2265.3	2623.0	3015.2	3489.4	3574.2	3584.8	3643.1	3831.2	4080.3
65°	1814.9	1836.1	1886.5	1923.6	2252.1	2710.5	3118.5	3184.7	3221.8	3333.1	3545.1
67.5°	1250.6	1581.8	1626.8	1653.3	1685.1	1897.1	2403.1	2739.6	2782.0	2880.0	3065.5
70°	241.1	500.8	1369.8	1398.9	1414.8	1462.5	1544.7	2079.9	2360.7	2453.5	2538.2
72.5°	164.3	193.4	233.2	551.1	1165.8	1192.3	1210.8	1279.7	1754.0	2024.2	2069.3
75°	119.2	132.5	156.3	193.4	238.5	776.3	961.8	996.2	1030.7	1422.8	1650.7
77.5°	84.8	95.4	106.0	124.5	145.7	188.1	270.3	744.5	779.0	797.5	1126.0
80°	47.7	58.3	71.5	82.1	92.7	106.0	137.8	172.2	384.2	561.7	590.8
82.5°	26.5	31.8	37.1	45.0	50.3	63.6	76.8	92.7	121.9	180.2	381.5
85°	13.2	13.2	13.2	18.5	21.2	29.1	34.4	39.7	55.6	76.8	106.0
87.5°	7.9	7.9	10.6	10.6	10.6	13.2	13.2	13.2	15.9	23.8	34.4
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-LD5-170HL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	8828.2	8828.2	8828.2	8828.2	8828.2
2.5°	8862.7	8854.7	8854.7	8886.5	8878.5
5°	8846.8	8838.8	8836.2	8870.6	8854.7
7.5°	8833.5	8804.4	8796.4	8828.2	8815.0
10°	8780.5	8759.3	8772.6	8762.0	8756.7
12.5°	8690.4	8677.2	8621.5	8626.8	8671.9
15°	8528.8	8581.8	8486.4	8571.2	8589.8
17.5°	8232.1	8351.3	8444.0	8494.4	8502.3
20°	8364.5	8404.3	8356.6	8359.2	8391.0
22.5°	8192.3	8210.9	8224.1	8208.2	8277.1
25°	7916.8	7845.2	7998.9	8030.7	8142.0
27.5°	7832.0	7773.7	7845.2	7839.9	7932.7
30°	7763.1	7575.0	7606.8	7657.1	7771.0
32.5°	7665.1	7368.3	7336.5	7447.8	7575.0
35°	7492.8	7212.0	7137.8	7209.4	7400.1
37.5°	7347.1	6994.7	6846.4	6941.7	7190.8
40°	7129.9	6825.2	6594.7	6679.4	6973.5
42.5°	6870.2	6679.4	6324.4	6382.7	6719.2
45°	6607.9	6438.3	6062.1	6091.3	6491.3
47.5°	6340.3	6184.0	5789.2	5794.5	6199.9
50°	6078.0	5871.3	5545.5	5452.7	5889.9
52.5°	5736.2	5545.5	5299.0	5148.0	5595.8
55°	5413.0	5198.4	5018.2	4785.0	5262.0
57.5°	5097.7	4859.2	4737.3	4437.9	4883.1
60°	4665.8	4551.9	4371.7	4085.6	4541.3
62.5°	4223.3	4186.2	4003.4	3706.7	4120.0
65°	3706.7	3794.1	3606.0	3351.6	3682.8
67.5°	3219.2	3375.5	3168.8	3012.5	3261.6
70°	2699.9	2880.0	2763.5	2707.8	2813.8
72.5°	2188.5	2363.4	2374.0	2334.2	2368.7
75°	1690.4	1883.8	1989.8	1928.9	1936.8
77.5°	1282.4	1375.1	1491.7	1539.4	1528.8
80°	792.2	953.8	1049.2	1147.2	1112.8
82.5°	400.1	535.2	651.8	757.8	707.4
85°	166.9	214.6	299.4	394.8	378.9
87.5°	50.3	84.8	90.1	127.2	119.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)