

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-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-LD5-170HL-RM-UNV-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

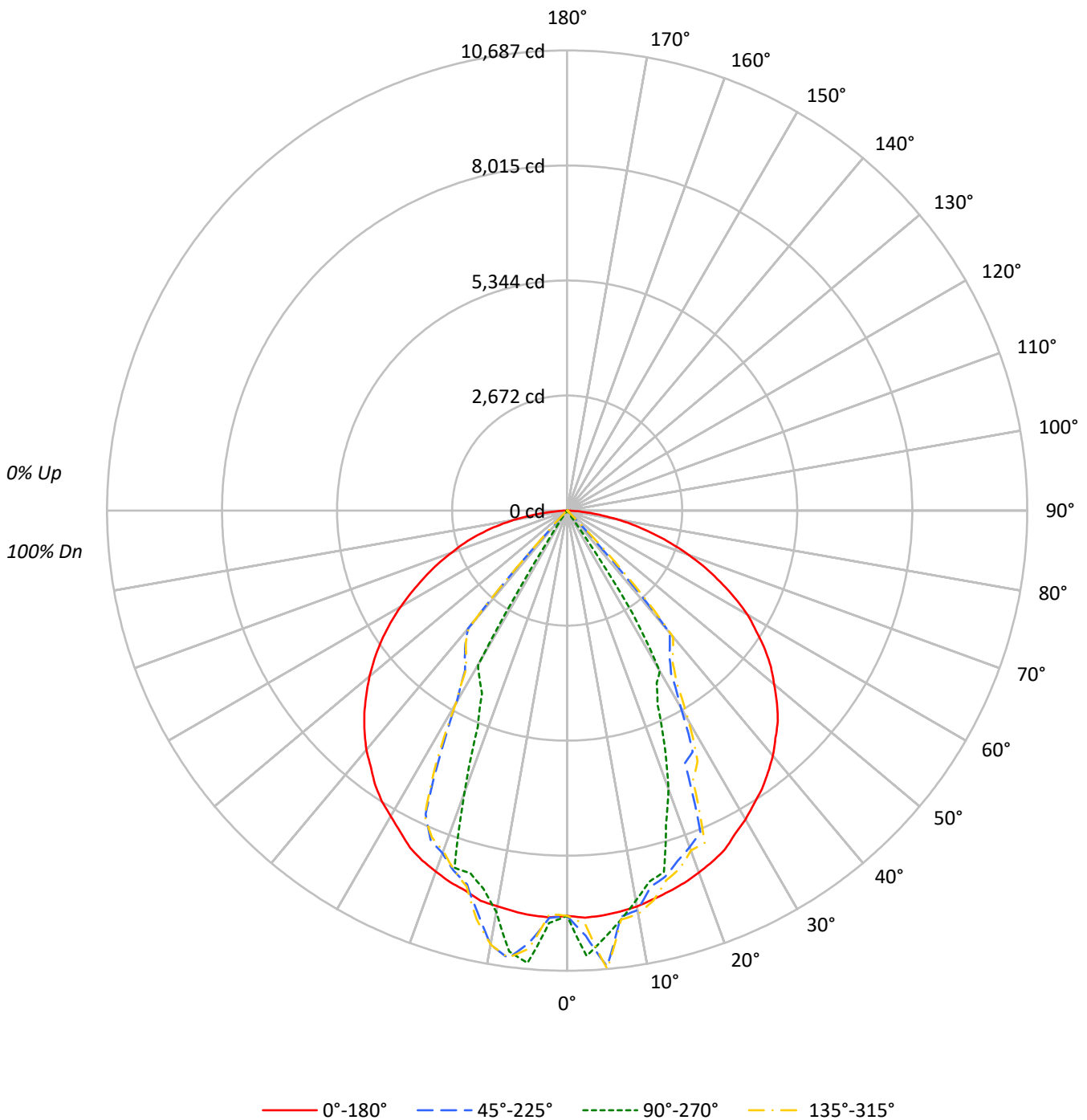
Lumens per Lamp: N/A
Luminaire Lumens: 13381.0 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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#
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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°	38023	38023	38023	38023
5°	38231	39106	38219	41414
10°	38192	35387	38169	36409
15°	38142	33030	38047	33116
20°	38242	26016	38134	26337
25°	38413	18827	38226	17767
30°	38302	16515	37898	15877
35°	38488	364	37923	441
40°	38701	79	37774	79
45°	38931	47	37469	35
50°	38744	37	36966	37
55°	38650	26	36276	26
60°	38088	27	35111	27
65°	36316	45	33730	30
70°	33975	49	32344	49
75°	30455	55	30954	55
80°	25354	63	26803	63
85°	15887	74	16218	74



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	944.1	7.1
10°-20°	2575.3	19.2
20°-30°	3277.0	24.5
30°-40°	2768.2	20.7
40°-50°	1809.8	13.5
50°-60°	1140.3	8.5
60°-70°	607.0	4.5
70°-80°	221.3	1.7
80°-90°	38.1	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°	6796.4	50.8
0°-40°	9564.6	71.5
0°-60°	12514.6	93.5
0°-90°	13381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13381.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9410	9410	9410	9410	9410	
5°	9439	9958	9436	10546	9439	898
15°	9156	8690	9134	8713	9156	2588
25°	8679	4962	8637	4683	8679	3991
35°	7888	93	7772	113	7888	4935
45°	6920	11	6660	8	6920	5321
55°	5609	6	5264	6	5609	4998
65°	3926	8	3646	6	3926	3888
75°	2065	8	2098	8	2065	2191
85°	404	8	412	8	404	511
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°	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5
2.5°	9464.2	9469.8	9472.7	9478.3	9486.8	9489.6	9495.2	9489.6	9489.6	9489.6	9489.6
5°	9438.8	9450.1	9458.5	9469.8	9489.6	9492.4	9515.0	9517.8	9529.1	9551.7	9568.7
7.5°	9396.4	9407.7	9424.6	9452.9	9481.1	9512.2	9551.7	9594.1	9653.4	9709.9	9780.5
10°	9334.3	9348.4	9368.2	9393.6	9532.0	9551.7	9639.3	9760.7	9794.6	9972.6	10105.3
12.5°	9243.9	9291.9	9342.7	9365.3	9498.1	9707.1	10000.8	9941.5	9876.5	10458.3	10449.9
15°	9156.3	9221.3	9195.9	9379.5	9500.9	9865.2	9741.0	10006.4	10492.2	10373.6	10379.3
17.5°	9063.1	9077.3	9218.5	9371.0	9588.5	9774.9	9927.4	10291.7	10387.7	10396.2	10291.7
20°	8944.5	9012.3	9218.5	9356.9	9724.0	9811.6	10142.0	10328.4	10288.9	10192.8	10014.9
22.5°	8823.1	9029.2	9238.2	9433.1	9690.1	9924.5	10088.3	10175.9	9969.7	9591.3	9387.9
25°	8679.0	8800.5	9074.4	9359.7	9681.7	9817.2	9913.2	9772.0	9503.7	9164.8	8823.1
27.5°	8455.9	8650.8	9001.0	9323.0	9613.9	9777.7	9622.3	9283.4	8851.3	8628.2	8472.9
30°	8283.6	8537.8	8825.9	9136.6	9438.8	9534.8	9139.4	8752.5	8455.9	8232.8	8198.9
32.5°	8074.6	8436.1	8710.1	9006.6	9260.8	9133.7	8749.6	8249.7	8004.0	7919.3	7953.2
35°	7888.2	8162.2	8520.9	8811.8	8995.4	8710.1	8102.9	7792.2	7673.6	7721.6	7659.5
37.5°	7665.1	8026.6	8357.1	8608.4	8546.3	8117.0	7603.0	7405.3	7419.4	7379.9	7261.2
40°	7433.5	7778.1	8122.6	8359.9	8142.4	7487.2	7145.4	7103.1	7111.6	6984.5	6815.0
42.5°	7162.4	7475.9	7820.4	8035.1	7566.3	7055.1	6823.5	6829.1	6755.7	6577.8	6487.4
45°	6919.5	7207.6	7566.3	7586.0	7009.9	6583.4	6515.6	6442.2	6278.4	6219.1	6151.3
47.5°	6608.8	6928.0	7224.5	7117.2	6464.8	6199.3	6148.5	5987.5	5905.6	5860.4	5803.9
50°	6278.4	6600.4	6871.5	6566.5	5950.8	5888.6	5722.0	5594.9	5538.4	5490.4	5439.6
52.5°	5964.9	6230.4	6507.2	5981.8	5555.4	5496.1	5306.8	5233.4	5176.9	5123.3	5112.0
55°	5609.0	5843.4	6032.7	5425.5	5176.9	5038.5	4903.0	4852.1	4798.5	4773.0	4815.4
57.5°	5205.2	5470.6	5442.4	4877.5	4767.4	4566.9	4516.0	4482.1	4442.6	4459.5	4106.5
60°	4840.8	5044.2	4905.8	4476.5	4290.1	4154.5	4109.3	4086.7	4109.3	3764.8	3310.1
62.5°	4391.8	4620.5	4340.9	4007.7	3810.0	3745.0	3705.5	3736.5	3406.1	3027.6	2917.5
65°	3925.8	4174.3	3761.9	3504.9	3380.7	3324.2	3321.4	3058.7	2733.9	2587.0	2587.0
67.5°	3476.7	3733.7	3202.7	2988.1	2940.1	2945.7	2781.9	2383.7	2293.3	2194.5	1909.2
70°	2999.4	3225.3	2646.4	2516.4	2488.2	2468.4	2070.2	1962.9	1855.6	1592.9	1570.3
72.5°	2524.9	2635.1	2126.7	2095.6	2090.0	1736.9	1657.9	1474.3	1350.0	1318.9	1304.8
75°	2064.6	2030.7	1680.5	1708.7	1440.4	1316.1	1189.0	1081.7	1064.8	1053.5	262.7
77.5°	1629.6	1460.2	1324.6	1152.3	1030.9	875.5	850.1	833.2	547.9	197.7	161.0
80°	1186.2	946.1	881.2	748.4	638.3	612.9	627.0	192.1	152.5	127.1	110.1
82.5°	754.1	604.4	494.3	432.1	420.8	183.6	135.6	110.1	96.0	81.9	67.8
85°	403.9	268.3	248.5	209.0	124.3	84.7	70.6	53.7	45.2	36.7	33.9
87.5°	127.1	107.3	87.6	70.6	42.4	28.2	22.6	19.8	16.9	14.1	14.1
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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CATALOG NUMBER: 8SNLED-LD5-170HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5
2.5°	9484.0	9489.6	9486.8	9495.2	9495.2	9506.5	9515.0	9523.5	9540.4	9548.9	9613.9
5°	9605.4	9619.5	9661.9	9701.4	9749.4	9763.6	9845.5	9865.2	9961.3	9972.6	10288.9
7.5°	9876.5	9930.2	10031.9	10133.5	10235.2	10300.2	10413.1	10483.7	10560.0	10627.8	10879.1
10°	10204.1	10294.5	10393.4	10495.0	10554.4	10678.6	10746.4	10757.7	10737.9	10627.8	10221.1
12.5°	10526.1	10616.5	10574.1	10593.9	10664.5	10444.2	10475.3	10317.1	10427.3	9882.2	9478.3
15°	10480.9	10475.3	10370.8	10031.9	10088.3	9667.5	9498.1	9368.2	9472.7	9416.2	9354.0
17.5°	10345.4	10088.3	9907.6	9500.9	9328.6	9210.0	9212.8	9215.6	9164.8	9218.5	9060.3
20°	9772.0	9484.0	9215.6	9071.6	9020.8	8936.0	8978.4	8936.0	8938.9	8955.8	8712.9
22.5°	9009.5	8921.9	8766.6	8811.8	8794.8	8871.1	8814.6	8727.0	8755.3	8628.2	8444.6
25°	8701.6	8600.0	8594.3	8611.2	8585.8	8551.9	8501.1	8368.4	8359.9	8320.3	8235.6
27.5°	8391.0	8396.6	8413.5	8362.7	8272.3	8204.6	8128.3	8063.3	8088.8	8043.6	7927.8
30°	8176.3	8173.5	8071.8	8026.6	7860.0	7862.8	7843.0	7803.5	7778.1	7780.9	7707.5
32.5°	7871.3	7783.7	7667.9	7611.5	7597.3	7546.5	7507.0	7515.4	7535.2	7464.6	7540.8
35°	7557.8	7377.0	7360.1	7312.1	7266.9	7233.0	7247.1	7190.6	7187.8	7179.3	6558.0
37.5°	7137.0	7049.4	7040.9	6990.1	6959.0	6950.6	6896.9	6905.4	6930.8	6976.0	5592.1
40°	6789.6	6710.5	6690.7	6687.9	6620.1	6614.5	6628.6	6682.3	6719.0	6436.5	5329.4
42.5°	6416.8	6422.4	6360.3	6320.8	6329.2	6354.6	6422.4	6236.0	5402.9	5148.7	4871.9
45°	6097.6	6069.4	6035.5	6024.2	6097.6	6046.8	5301.2	4891.7	4792.8	4781.5	4004.8
47.5°	5764.4	5755.9	5741.8	5750.2	5332.3	4753.3	4583.8	4530.2	4547.1	4535.8	3440.0
50°	5428.3	5439.6	5439.6	4750.4	4360.7	4264.7	4278.8	4326.8	4027.4	3759.1	3205.6
52.5°	5137.4	5049.8	4326.8	4078.3	3990.7	4033.1	3931.4	3555.8	3284.6	3126.5	2965.5
55°	4597.9	3954.0	3793.0	3753.5	3784.5	3408.9	3177.3	2934.4	2863.8	2846.9	2753.7
57.5°	3617.9	3488.0	3502.1	3344.0	2985.3	2773.4	2680.2	2646.4	2615.3	2592.7	225.9
60°	3199.9	3236.6	2962.7	2623.8	2479.7	2451.5	2428.9	2397.8	2392.2	2352.6	144.0
62.5°	2928.8	2575.7	2338.5	2253.8	2219.9	2211.4	2169.1	2154.9	1830.1	251.4	107.3
65°	2208.6	2064.6	2019.4	1999.6	1962.9	1962.9	1629.6	257.0	209.0	180.8	96.0
67.5°	1801.9	1790.6	1768.0	1742.6	1186.2	248.5	217.5	189.2	163.8	144.0	84.7
70°	1525.1	1519.5	1383.9	254.2	211.8	186.4	163.8	146.9	135.6	121.4	76.3
72.5°	1251.2	254.2	214.6	186.4	161.0	146.9	132.7	118.6	107.3	98.9	62.1
75°	194.9	172.3	152.5	138.4	127.1	113.0	101.7	93.2	90.4	79.1	42.4
77.5°	141.2	121.4	110.1	98.9	87.6	79.1	67.8	59.3	53.7	45.2	31.1
80°	98.9	87.6	79.1	65.0	56.5	48.0	42.4	36.7	33.9	28.2	14.1
82.5°	56.5	48.0	42.4	33.9	31.1	25.4	22.6	19.8	19.8	14.1	14.1
85°	25.4	25.4	19.8	16.9	14.1	14.1	14.1	11.3	11.3	8.5	8.5
87.5°	11.3	11.3	11.3	11.3	11.3	8.5	8.5	8.5	8.5	8.5	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5
2.5°	9704.2	9741.0	9811.6	9885.0	9803.1	10096.8	10074.2	10173.1	10226.7	10252.2	10311.5
5°	10568.5	10732.3	10785.9	10625.0	10531.8	10435.7	10218.3	10054.5	10074.2	10020.6	9825.7
7.5°	10551.5	10201.3	9729.7	9515.0	9498.1	9472.7	9540.4	9580.0	9585.6	9582.8	9577.2
10°	9659.1	9478.3	9447.2	9419.0	9430.3	9325.8	9277.8	9142.2	9215.6	9176.1	9190.2
12.5°	9387.9	9345.6	9178.9	8947.3	9085.7	8981.2	8921.9	8961.5	8916.3	8873.9	8859.8
15°	9226.9	8953.0	8859.8	8803.3	8763.8	8741.2	8760.9	8715.7	8701.6	8693.2	8712.9
17.5°	8893.7	8783.5	8681.9	8532.2	8535.0	8526.5	8583.0	8667.7	8673.4	8238.4	7845.9
20°	8631.0	8540.6	8410.7	8317.5	8444.6	8218.7	7346.0	6930.8	6865.8	6865.8	6877.1
22.5°	8422.0	8221.5	8230.0	8083.1	6894.1	6651.2	6656.8	6682.3	6566.5	6171.1	6128.7
25°	8136.8	8105.7	7487.2	6470.4	6478.9	6289.7	5998.8	5589.3	5145.8	5145.8	5072.4
27.5°	7922.1	7264.1	6360.3	6317.9	5682.5	5281.4	5032.9	4657.2	4606.4	4558.4	4564.0
30°	7738.5	6145.6	6168.2	5281.4	4812.6	4479.3	4459.5	4397.4	4366.3	4357.9	4326.8
32.5°	6117.4	5984.7	5162.8	4496.3	4312.7	4259.0	4233.6	4163.0	4160.2	4106.5	3733.7
35°	5736.1	5253.2	4321.2	4140.4	4086.7	4035.9	3993.5	2680.2	316.3	127.1	110.1
37.5°	5301.2	4388.9	3996.4	3914.5	3863.6	2855.4	285.3	98.9	70.6	50.8	45.2
40°	4493.4	3920.1	3795.8	3705.5	1527.9	98.9	62.1	48.0	28.2	25.4	22.6
42.5°	3790.2	3694.2	3561.4	1084.5	113.0	48.0	31.1	22.6	19.8	19.8	16.9
45°	3547.3	3462.6	1434.7	107.3	70.6	22.6	19.8	19.8	16.9	11.3	11.3
47.5°	3321.4	2923.1	129.9	67.8	45.2	19.8	16.9	11.3	11.3	11.3	8.5
50°	3081.3	161.0	90.4	50.8	28.2	11.3	11.3	11.3	11.3	8.5	8.5
52.5°	576.2	113.0	73.4	45.2	14.1	11.3	11.3	11.3	8.5	8.5	8.5
55°	135.6	90.4	67.8	39.5	11.3	11.3	11.3	8.5	8.5	8.5	5.6
57.5°	101.7	67.8	53.7	36.7	11.3	8.5	8.5	8.5	8.5	8.5	5.6
60°	84.7	48.0	42.4	33.9	8.5	8.5	8.5	8.5	8.5	8.5	5.6
62.5°	59.3	39.5	31.1	25.4	8.5	8.5	8.5	8.5	8.5	8.5	8.5
65°	48.0	31.1	25.4	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
67.5°	42.4	25.4	16.9	5.6	8.5	8.5	8.5	8.5	8.5	8.5	8.5
70°	33.9	8.5	8.5	5.6	8.5	8.5	8.5	8.5	8.5	8.5	8.5
72.5°	28.2	8.5	5.6	5.6	8.5	8.5	8.5	8.5	8.5	8.5	8.5
75°	28.2	14.1	5.6	5.6	8.5	8.5	11.3	11.3	8.5	8.5	8.5
77.5°	19.8	14.1	5.6	5.6	8.5	8.5	11.3	11.3	8.5	8.5	8.5
80°	11.3	14.1	5.6	8.5	8.5	16.9	19.8	11.3	8.5	8.5	8.5
82.5°	11.3	14.1	16.9	16.9	8.5	14.1	16.9	14.1	11.3	8.5	8.5
85°	11.3	8.5	11.3	14.1	8.5	14.1	14.1	11.3	11.3	8.5	8.5
87.5°	5.6	8.5	8.5	11.3	11.3	11.3	14.1	11.3	11.3	11.3	8.5
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5
2.5°	10339.7	10351.0	10173.1	10110.9	10164.6	10153.3	10105.3	9927.4	9907.6	9789.0	9616.7
5°	9882.2	9958.4	9865.2	10026.2	9950.0	10026.2	10257.8	10365.1	10540.2	10647.6	10687.1
7.5°	9563.0	9580.0	9580.0	9594.1	9608.2	9611.0	9594.1	9582.8	9534.8	9475.5	9582.8
10°	9176.1	9195.9	9229.8	9224.1	9221.3	9280.6	9294.7	9416.2	9410.5	9433.1	9515.0
12.5°	8975.6	8823.1	8961.5	8924.7	8975.6	8896.5	9043.4	9017.9	9026.4	9094.2	9269.3
15°	8642.3	8690.3	8724.2	8724.2	8744.0	8727.0	8710.1	8825.9	8896.5	8899.3	8888.0
17.5°	8001.2	7636.9	8009.7	7913.6	8679.0	8698.8	8633.8	8580.2	8580.2	8622.5	8712.9
20°	6868.7	6877.1	6880.0	6916.7	6961.9	6959.0	6961.9	8074.6	8602.8	8481.3	8399.4
22.5°	6021.4	5916.9	6111.8	6097.6	6340.5	6608.8	6865.8	6840.4	6857.4	7642.5	8348.6
25°	4826.7	4962.3	4852.1	4900.1	5174.1	5493.2	5690.9	6207.8	6769.8	6730.3	6913.9
27.5°	4544.3	4507.6	4558.4	4558.4	4595.1	4637.5	4747.6	5038.5	5538.4	6063.7	6560.8
30°	4276.0	4307.0	4312.7	4363.5	4391.8	4420.0	4437.0	4547.1	4660.1	5024.4	5637.3
32.5°	3211.2	2815.8	3705.5	3945.5	4148.9	4196.9	4230.8	4276.0	4357.9	4411.5	4719.4
35°	93.2	93.2	98.9	113.0	144.0	971.6	3699.8	4078.3	4131.9	4199.7	4256.2
37.5°	45.2	33.9	39.5	42.4	50.8	70.6	101.7	316.3	3521.9	3982.2	4044.4
40°	19.8	19.8	19.8	19.8	22.6	28.2	42.4	70.6	107.3	2832.8	3821.3
42.5°	16.9	16.9	16.9	16.9	16.9	16.9	19.8	25.4	50.8	121.4	2005.2
45°	11.3	11.3	8.5	11.3	11.3	14.1	16.9	16.9	22.6	76.3	138.4
47.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	14.1	16.9	50.8	73.4
50°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	39.5	50.8
52.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	16.9	45.2
55°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	8.5	8.5	11.3	39.5
57.5°	5.6	5.6	5.6	5.6	5.6	8.5	5.6	5.6	8.5	8.5	36.7
60°	5.6	5.6	5.6	5.6	5.6	8.5	8.5	8.5	8.5	8.5	33.9
62.5°	8.5	8.5	5.6	8.5	5.6	5.6	8.5	8.5	8.5	8.5	22.6
65°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	5.6	8.5
67.5°	8.5	8.5	8.5	8.5	5.6	8.5	5.6	8.5	8.5	5.6	5.6
70°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	5.6	5.6	5.6	5.6
72.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	5.6	5.6	5.6	5.6
75°	8.5	8.5	8.5	8.5	8.5	8.5	11.3	11.3	5.6	5.6	5.6
77.5°	8.5	8.5	8.5	8.5	8.5	8.5	14.1	16.9	14.1	14.1	5.6
80°	8.5	8.5	8.5	8.5	8.5	8.5	14.1	14.1	14.1	14.1	19.8
82.5°	8.5	8.5	8.5	8.5	8.5	8.5	11.3	11.3	11.3	11.3	14.1
85°	8.5	8.5	8.5	8.5	8.5	8.5	11.3	11.3	11.3	8.5	11.3
87.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	11.3	8.5	8.5	8.5
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5
2.5°	9630.8	9534.8	9503.7	9438.8	9433.1	9438.8	9424.6	9404.9	9416.2	9396.4	9379.5
5°	10709.7	10452.7	10286.0	10062.9	9755.1	9687.3	9670.4	9574.3	9540.4	9529.1	9484.0
7.5°	9837.0	10305.8	10588.2	10684.3	10322.8	10238.0	10139.2	10060.1	9983.9	9839.8	9752.3
10°	9450.1	9472.7	9743.8	10060.1	10574.1	10644.7	10698.4	10526.1	10478.1	10110.9	10031.9
12.5°	9359.7	9362.5	9393.6	9585.6	9989.5	10034.7	10223.9	10325.6	10449.9	10520.5	10464.0
15°	8947.3	9176.1	9345.6	9362.5	9399.2	9478.3	9534.8	9887.8	10037.5	10438.6	10416.0
17.5°	8755.3	8828.7	9074.4	9275.0	9241.1	9212.8	9258.0	9306.0	9450.1	9851.1	9845.5
20°	8436.1	8670.6	8803.3	9012.3	9201.5	9210.0	9159.2	9130.9	9074.4	9139.4	9198.7
22.5°	8300.6	8337.3	8585.8	8732.7	8947.3	9023.6	9034.9	9037.7	9006.6	8972.8	8955.8
25°	8286.5	8170.7	8297.8	8481.3	8639.5	8721.4	8814.6	8845.7	8834.4	8834.4	8817.4
27.5°	6781.1	8133.9	8066.2	8187.6	8379.7	8436.1	8484.2	8580.2	8639.5	8681.9	8701.6
30°	6459.1	6702.0	7885.4	7902.4	8097.2	8091.6	8145.2	8224.3	8300.6	8399.4	8424.8
32.5°	5713.5	6309.5	7218.9	7617.1	7820.4	7840.2	7868.5	7891.1	7961.7	8071.8	8167.8
35°	4578.2	5747.4	6185.2	7481.5	7518.2	7557.8	7574.7	7628.4	7651.0	7696.2	7780.9
37.5°	4143.2	4750.4	5933.8	6470.4	7170.9	7204.8	7295.1	7317.7	7354.4	7391.2	7456.1
40°	3891.9	4058.5	4939.7	5778.5	6891.3	6913.9	6944.9	7001.4	7004.2	7046.6	7105.9
42.5°	3691.3	3798.7	4055.7	5518.7	6693.6	6690.7	6617.3	6654.0	6671.0	6716.2	6798.1
45°	2948.6	3564.2	3728.1	4507.6	5329.4	5713.5	6450.7	6329.2	6326.4	6343.3	6430.9
47.5°	149.7	3352.4	3468.2	3719.6	5032.9	5047.0	5143.0	5950.8	6075.0	6035.5	6044.0
50°	101.7	231.6	3231.0	3346.8	4338.1	4688.3	4758.9	4795.6	5261.6	5781.3	5696.6
52.5°	79.1	132.7	1979.8	3106.7	3524.7	3781.7	4236.4	4496.3	4524.5	4733.5	5442.4
55°	70.6	101.7	214.6	2866.7	2996.6	3053.1	3318.5	3773.2	4140.4	4250.6	4259.0
57.5°	62.1	93.2	146.9	1296.3	2725.4	2736.7	2781.9	2940.1	3270.5	3572.7	3914.5
60°	56.5	81.9	115.8	223.1	2476.9	2505.1	2513.6	2556.0	2595.5	2801.7	3194.3
62.5°	33.9	65.0	101.7	161.0	1960.1	2251.0	2248.1	2276.4	2313.1	2335.7	2414.8
65°	28.2	50.8	87.6	135.6	240.1	299.4	1818.8	2022.2	2044.8	2075.9	2090.0
67.5°	25.4	45.2	65.0	107.3	180.8	206.2	237.2	293.7	1604.2	1807.5	1835.8
70°	22.6	31.1	53.7	90.4	146.9	158.2	177.9	203.3	240.1	296.6	1451.7
72.5°	14.1	22.6	36.7	65.0	113.0	127.1	138.4	155.3	172.3	206.2	237.2
75°	5.6	16.9	31.1	48.0	87.6	96.0	104.5	115.8	129.9	152.5	169.5
77.5°	5.6	14.1	25.4	33.9	56.5	65.0	76.3	84.7	96.0	107.3	124.3
80°	19.8	11.3	16.9	25.4	39.5	42.4	48.0	53.7	62.1	70.6	81.9
82.5°	14.1	16.9	19.8	16.9	19.8	25.4	28.2	33.9	36.7	42.4	45.2
85°	11.3	11.3	14.1	14.1	14.1	14.1	14.1	14.1	16.9	19.8	25.4
87.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	11.3	11.3
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5
2.5°	9379.5	9373.8	9356.9	9356.9	9354.0	9365.3	9373.8	9382.3	9379.5	9396.4	9379.5
5°	9450.1	9435.9	9410.5	9387.9	9379.5	9385.1	9376.6	9385.1	9373.8	9387.9	9362.5
7.5°	9644.9	9596.9	9498.1	9458.5	9407.7	9404.9	9379.5	9373.8	9356.9	9356.9	9325.8
10°	9989.5	9757.9	9729.7	9611.0	9568.7	9362.5	9407.7	9331.4	9323.0	9286.3	9272.1
12.5°	10271.9	10091.2	10037.5	9933.0	9814.4	9396.4	9489.6	9325.8	9317.3	9243.9	9167.6
15°	10277.6	10382.1	10235.2	9947.1	9921.7	9633.6	9444.4	9387.9	9314.5	9094.2	9130.9
17.5°	9947.1	10187.2	10257.8	10195.7	10014.9	9820.0	9554.6	9441.6	9221.3	9122.4	9054.7
20°	9410.5	9653.4	9955.6	9975.4	10088.3	9950.0	9602.6	9419.0	9153.5	8981.2	8924.7
22.5°	8984.1	9162.0	9509.4	9670.4	9808.7	9856.8	9636.5	9365.3	9034.9	8868.3	8834.4
25°	8758.1	8797.7	8902.1	9091.4	9396.4	9616.7	9647.8	9359.7	9187.4	8823.1	8631.0
27.5°	8676.2	8642.3	8600.0	8696.0	8924.7	9193.1	9371.0	9419.0	8989.7	8642.3	8450.3
30°	8467.2	8487.0	8422.0	8388.1	8537.8	8814.6	9130.9	9210.0	8879.6	8520.9	8300.6
32.5°	8210.2	8244.1	8255.4	8196.1	8165.0	8357.1	8698.8	8888.0	8871.1	8348.6	8102.9
35°	7888.2	7984.3	8009.7	8012.5	7961.7	7930.6	8128.3	8520.9	8670.6	8269.5	7913.6
37.5°	7549.3	7577.6	7715.9	7752.7	7752.7	7659.5	7806.3	8119.8	8328.8	8091.6	7682.1
40°	7125.7	7216.1	7346.0	7410.9	7475.9	7484.4	7402.5	7622.7	7967.3	7908.0	7464.6
42.5°	6817.8	6877.1	6956.2	7043.8	7176.5	7210.4	7125.7	7165.2	7523.9	7679.2	7182.2
45°	6459.1	6538.2	6560.8	6656.8	6795.2	6894.1	6891.3	6809.4	7097.4	7289.5	6976.0
47.5°	6092.0	6168.2	6207.8	6255.8	6357.5	6484.6	6555.2	6518.5	6574.9	6950.6	6702.0
50°	5713.5	5755.9	5835.0	5888.6	5956.4	6029.9	6199.3	6233.2	6154.1	6453.5	6399.8
52.5°	5354.8	5369.0	5422.6	5476.3	5566.7	5620.3	5755.9	5857.6	5851.9	5939.5	6063.7
55°	5075.2	5013.1	5024.4	5066.8	5126.1	5208.0	5284.2	5442.4	5496.1	5513.0	5710.7
57.5°	3965.3	4603.6	4660.1	4657.2	4727.9	4764.6	4835.2	4939.7	5131.7	5089.4	5309.7
60°	3603.8	3674.4	4208.2	4270.3	4295.7	4329.6	4414.4	4510.4	4651.6	4742.0	4838.0
62.5°	2748.0	3177.3	3338.3	3810.0	3883.4	3903.2	3959.6	4004.8	4151.7	4357.9	4318.3
65°	2126.7	2310.3	2801.7	2993.7	3394.8	3445.6	3524.7	3572.7	3615.1	3852.3	3863.6
67.5°	1838.6	1866.9	1999.6	2369.6	2623.8	3016.3	3064.4	3106.7	3171.7	3341.1	3445.6
70°	1570.3	1604.2	1640.9	1672.0	2002.4	2262.3	2626.6	2640.7	2683.1	2796.0	3033.3
72.5°	296.6	1341.5	1364.1	1383.9	1420.6	1592.9	1940.3	2222.7	2239.7	2293.3	2510.8
75°	200.5	234.4	322.0	1107.1	1143.8	1155.1	1214.4	1567.5	1827.3	1838.6	1934.6
77.5°	144.0	161.0	194.9	231.6	590.3	886.8	900.9	965.9	1234.2	1429.1	1446.0
80°	98.9	110.1	129.9	146.9	180.8	237.2	655.2	675.0	708.9	977.2	1028.0
82.5°	56.5	65.0	76.3	93.2	107.3	135.6	175.1	225.9	460.4	491.4	652.4
85°	28.2	31.1	36.7	45.2	53.7	65.0	87.6	107.3	146.9	265.5	274.0
87.5°	14.1	14.1	14.1	14.1	22.6	25.4	31.1	39.5	50.8	76.3	98.9
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5
2.5°	9382.3	9421.8	9455.7	9464.2	9464.2	9469.8	9478.3	9484.0	9489.6	9495.2	9489.6
5°	9365.3	9407.7	9435.9	9444.4	9444.4	9461.4	9475.5	9492.4	9500.9	9500.9	9495.2
7.5°	9323.0	9354.0	9390.8	9413.3	9416.2	9444.4	9469.8	9467.0	9478.3	9484.0	9498.1
10°	9266.5	9266.5	9328.6	9345.6	9359.7	9390.8	9399.2	9416.2	9455.7	9461.4	9498.1
12.5°	9238.2	9210.0	9283.4	9291.9	9339.9	9300.4	9351.2	9368.2	9328.6	9382.3	9311.7
15°	9111.1	9145.0	9133.7	9159.2	9243.9	9198.7	9337.1	9291.9	9393.6	9272.1	9486.8
17.5°	9006.6	9001.0	9046.2	9068.8	9085.7	9181.8	9218.5	9269.3	9308.8	9275.0	9359.7
20°	8930.4	8885.2	8919.1	8944.5	9003.8	9077.3	9099.8	9023.6	9156.3	9382.3	9435.9
22.5°	8786.4	8755.3	8794.8	8794.8	8885.2	8873.9	8958.6	8910.6	9034.9	9297.5	9571.5
25°	8591.5	8594.3	8636.7	8687.5	8704.4	8831.5	8876.7	8938.9	9094.2	9407.7	9574.3
27.5°	8393.8	8376.8	8402.3	8506.7	8594.3	8687.5	8701.6	8913.4	9125.3	9339.9	9486.8
30°	8196.1	8179.1	8196.1	8272.3	8376.8	8439.0	8594.3	8876.7	9074.4	9221.3	9359.7
32.5°	7984.3	7967.3	8006.9	8063.3	8246.9	8255.4	8563.2	8828.7	8984.1	9091.4	9066.0
35°	7758.3	7735.7	7772.4	7860.0	8029.4	8091.6	8413.5	8611.2	8786.4	8837.2	8718.6
37.5°	7487.2	7447.6	7492.8	7614.3	7792.2	7973.0	8241.3	8470.0	8563.2	8427.7	8286.5
40°	7204.8	7176.5	7255.6	7317.7	7526.7	7778.1	8085.9	8246.9	8187.6	8032.3	7876.9
42.5°	6953.4	6894.1	6964.7	7083.3	7320.5	7605.8	7854.3	7944.7	7803.5	7574.7	7394.0
45°	6645.5	6574.9	6659.7	6817.8	7072.0	7396.8	7591.7	7560.6	7320.5	7122.8	6874.3
47.5°	6323.6	6238.8	6323.6	6512.8	6798.1	7142.6	7283.8	7142.6	6840.4	6591.9	6391.4
50°	6007.3	5908.4	5990.3	6275.6	6555.2	6820.7	6817.8	6543.9	6363.1	6092.0	5916.9
52.5°	5693.8	5552.5	5634.5	5945.1	6224.7	6526.9	6303.8	6049.6	5832.2	5594.9	5538.4
55°	5306.8	5154.3	5264.5	5716.4	5931.0	6108.9	5753.1	5530.0	5315.3	5196.7	5126.1
57.5°	4939.7	4773.0	4869.1	5402.9	5561.0	5606.2	5278.6	4962.3	4835.2	4795.6	4694.0
60°	4561.2	4372.0	4462.4	5078.1	5188.2	5004.6	4682.7	4437.0	4411.5	4332.5	4253.4
62.5°	4199.7	3990.7	4047.2	4674.2	4725.0	4391.8	4095.2	4030.3	3968.1	3889.0	3846.7
65°	3784.5	3567.1	3646.2	4244.9	4196.9	3767.6	3601.0	3586.8	3504.9	3440.0	3502.1
67.5°	3403.3	3146.3	3256.4	3776.1	3558.6	3208.4	3140.6	3106.7	3041.8	3078.5	2426.1
70°	2985.3	2705.7	2855.4	3270.5	2948.6	2717.0	2691.5	2640.7	2643.5	2101.3	1770.8
72.5°	2519.3	2276.4	2493.8	2717.0	2332.9	2265.1	2228.4	2222.7	1793.4	1457.3	1375.4
75°	2109.7	1864.0	2098.4	2183.2	1858.4	1813.2	1810.4	1496.9	1177.7	1124.1	1098.6
77.5°	1646.6	1457.3	1680.5	1553.4	1426.3	1375.4	1234.2	926.4	886.8	850.1	319.1
80°	1109.9	1124.1	1254.0	1070.4	1016.7	867.1	683.5	655.2	564.9	225.9	177.9
82.5°	675.0	847.3	799.3	669.4	655.2	471.7	432.1	220.3	163.8	129.9	113.0
85°	350.2	429.3	412.3	364.3	271.1	242.9	135.6	104.5	84.7	65.0	53.7
87.5°	118.6	158.2	152.5	121.4	93.2	73.4	48.0	39.5	28.2	22.6	19.8
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-LD5-170HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5
2.5°	9484.0	9484.0	9478.3	9484.0	9486.8	9481.1	9481.1	9486.8	9489.6	9492.4	9506.5
5°	9498.1	9503.7	9512.2	9529.1	9532.0	9565.9	9580.0	9588.5	9596.9	9599.7	9580.0
7.5°	9529.1	9548.9	9565.9	9563.0	9543.3	9489.6	9472.7	9458.5	9484.0	9548.9	9625.2
10°	9557.4	9467.0	9297.5	9529.1	9458.5	9523.5	9715.5	9757.9	9887.8	10071.4	10125.1
12.5°	9362.5	9611.0	9664.7	9404.9	9885.0	9707.1	9918.9	10105.3	10159.0	10345.4	10232.4
15°	9571.5	9692.9	9774.9	10034.7	10006.4	10159.0	10218.3	10181.6	10190.0	10238.0	10365.1
17.5°	9568.7	9811.6	9865.2	10040.3	10159.0	10161.8	10144.8	10127.9	10173.1	10209.8	10133.5
20°	9732.5	9811.6	9916.1	9986.7	10009.3	10037.5	10091.2	10048.8	9964.1	9882.2	9848.3
22.5°	9650.6	9828.5	9918.9	9930.2	9916.1	9828.5	9749.4	9630.8	9591.3	9548.9	9563.0
25°	9667.5	9749.4	9738.1	9692.9	9633.6	9469.8	9430.3	9379.5	9303.2	9119.6	8953.0
27.5°	9546.1	9503.7	9452.9	9342.7	9235.4	9147.9	9049.0	8885.2	8749.6	8551.9	8478.5
30°	9342.7	9173.3	9049.0	8984.1	8879.6	8732.7	8583.0	8382.5	8210.2	8170.7	8133.9
32.5°	8953.0	8786.4	8684.7	8526.5	8348.6	8173.5	8001.2	7922.1	7885.4	7891.1	7857.2
35°	8554.8	8407.9	8255.4	8018.1	7885.4	7710.3	7648.2	7631.2	7597.3	7560.6	7521.1
37.5°	8131.1	7958.8	7730.1	7588.9	7456.1	7385.5	7354.4	7329.0	7269.7	7204.8	7159.6
40°	7721.6	7410.9	7283.8	7145.4	7105.9	7074.8	7029.6	6967.5	6885.6	6874.3	6854.5
42.5°	7173.7	6950.6	6840.4	6812.2	6764.2	6710.5	6671.0	6603.2	6569.3	6591.9	6608.8
45°	6654.0	6541.0	6504.3	6470.4	6380.1	6303.8	6278.4	6255.8	6284.0	6408.3	6111.8
47.5°	6233.2	6188.0	6142.8	6086.3	6001.6	5945.1	5970.5	5993.1	6018.6	5106.3	4660.1
50°	5868.9	5806.7	5736.1	5674.0	5623.2	5617.5	5750.2	5352.0	4482.1	4459.5	4007.7
52.5°	5470.6	5377.4	5335.1	5298.4	5321.0	5405.7	4473.7	4151.7	3982.2	3459.8	3228.2
55°	5041.4	4959.4	4959.4	4993.3	4871.9	3948.4	3900.3	3372.2	3053.1	2962.7	2926.0
57.5°	4612.1	4603.6	4651.6	4253.4	3584.0	3437.2	2889.2	2773.4	2722.6	2711.3	2652.0
60°	4219.5	4298.6	3598.1	3310.1	2877.9	2595.5	2516.4	2502.3	2448.7	2428.9	2375.2
62.5°	3906.0	3239.5	3016.3	2462.8	2318.7	2282.0	2239.7	2219.9	2171.9	1917.7	562.0
65°	2821.5	2666.1	2163.4	2070.2	2058.9	2005.2	1988.3	1787.8	420.8	282.4	240.1
67.5°	2129.5	1889.4	1824.5	1807.5	1753.9	1646.6	488.6	279.6	240.1	209.0	183.6
70°	1635.3	1592.9	1544.9	1505.3	443.4	276.8	240.1	203.3	175.1	155.3	141.2
72.5°	1338.7	1310.5	762.6	290.9	237.2	200.5	177.9	155.3	135.6	124.3	113.0
75°	1047.8	290.9	240.1	200.5	172.3	146.9	129.9	115.8	104.5	96.0	87.6
77.5°	237.2	192.1	163.8	138.4	124.3	110.1	98.9	84.7	76.3	67.8	56.5
80°	146.9	127.1	107.3	98.9	84.7	70.6	62.1	56.5	45.2	42.4	36.7
82.5°	96.0	76.3	67.8	56.5	45.2	42.4	36.7	28.2	25.4	22.6	19.8
85°	42.4	36.7	31.1	25.4	19.8	16.9	14.1	11.3	11.3	11.3	11.3
87.5°	14.1	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5
2.5°	9512.2	9563.0	9611.0	9596.9	9546.1	9467.0	9444.4	9413.3	9435.9	9484.0	9503.7
5°	9580.0	9551.7	9653.4	9803.1	10046.0	10068.6	10238.0	10277.6	10413.1	10497.9	10495.0
7.5°	9676.0	10077.1	10243.7	10424.4	10506.3	10486.6	10512.0	10492.2	10461.2	10447.0	10430.1
10°	10164.6	10469.6	10531.8	10531.8	10404.7	10232.4	10159.0	10031.9	9777.7	9783.3	9741.0
12.5°	10449.9	10557.2	10410.3	10286.0	9774.9	9577.2	9362.5	9260.8	9201.5	9111.1	9145.0
15°	10300.2	10147.7	10060.1	9659.1	9345.6	8989.7	8995.4	8933.2	8868.3	8873.9	8831.5
17.5°	10079.9	9958.4	9337.1	9060.3	8907.8	8769.4	8744.0	8662.1	8619.7	8605.6	8602.8
20°	9777.7	9339.9	8876.7	8808.9	8625.4	8467.2	8441.8	8467.2	8597.1	8365.5	7580.4
22.5°	9424.6	8794.8	8659.3	8467.2	8342.9	8280.8	8436.1	7730.1	6662.5	6792.4	6654.0
25°	8825.9	8551.9	8320.3	8173.5	8159.4	7778.1	6481.7	6346.2	5659.9	5292.7	4880.4
27.5°	8388.1	8269.5	8026.6	8001.2	7817.6	6360.3	5685.3	4939.7	4665.7	4623.4	4533.0
30°	8122.6	7953.2	7806.3	7165.2	6238.8	5120.4	4561.2	4456.7	4408.7	4357.9	4278.8
32.5°	7803.5	7642.5	7713.1	6024.2	4973.6	4408.7	4295.7	4219.5	4131.9	4098.0	3812.8
35°	7478.7	7405.3	6027.0	5063.9	4276.0	4140.4	4055.7	3976.6	3163.2	765.4	259.8
37.5°	7131.3	7114.4	5417.0	4202.5	4004.8	3877.7	3637.7	751.3	177.9	121.4	90.4
40°	6860.2	5419.8	4281.6	3939.9	3778.9	3578.4	502.7	124.3	79.1	48.0	31.1
42.5°	6679.4	4874.7	3832.6	3697.0	3346.8	370.0	127.1	53.7	31.1	25.4	19.8
45°	5148.7	3849.5	3581.2	3440.0	423.6	127.1	73.4	25.4	19.8	16.9	11.3
47.5°	4750.4	3496.5	3338.3	751.3	141.2	67.8	50.8	16.9	11.3	11.3	11.3
50°	3598.1	3231.0	2657.7	183.6	90.4	48.0	36.7	11.3	11.3	11.3	8.5
52.5°	3154.7	2982.4	285.3	121.4	70.6	36.7	22.6	8.5	8.5	8.5	8.5
55°	2883.6	1892.3	169.5	93.2	59.3	33.9	14.1	8.5	8.5	8.5	5.6
57.5°	2637.9	254.2	124.3	79.1	53.7	31.1	8.5	8.5	8.5	8.5	5.6
60°	2236.8	183.6	101.7	70.6	50.8	28.2	8.5	8.5	8.5	8.5	8.5
62.5°	290.9	144.0	87.6	62.1	36.7	22.6	5.6	8.5	8.5	8.5	8.5
65°	211.8	113.0	79.1	42.4	22.6	8.5	5.6	8.5	8.5	8.5	8.5
67.5°	163.8	93.2	59.3	36.7	19.8	5.6	5.6	8.5	8.5	8.5	8.5
70°	129.9	79.1	48.0	31.1	16.9	5.6	5.6	8.5	8.5	8.5	8.5
72.5°	101.7	56.5	33.9	16.9	11.3	5.6	5.6	8.5	8.5	8.5	8.5
75°	76.3	45.2	25.4	14.1	5.6	5.6	5.6	8.5	8.5	8.5	8.5
77.5°	50.8	28.2	19.8	11.3	11.3	11.3	14.1	14.1	8.5	8.5	8.5
80°	33.9	19.8	14.1	14.1	14.1	11.3	14.1	14.1	8.5	14.1	8.5
82.5°	16.9	14.1	14.1	11.3	11.3	8.5	11.3	11.3	11.3	11.3	8.5
85°	11.3	8.5	8.5	8.5	8.5	8.5	8.5	8.5	11.3	11.3	8.5
87.5°	5.6	5.6	5.6	5.6	8.5	8.5	8.5	8.5	11.3	11.3	8.5
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5
2.5°	9478.3	9486.8	9464.2	9585.6	9523.5	9529.1	9554.6	9489.6	9503.7	9458.5	9427.5
5°	10506.3	10523.3	10540.2	10545.9	10557.2	10571.3	10554.4	10545.9	10528.9	10472.5	10413.1
7.5°	10345.4	10325.6	10317.1	10328.4	10348.2	10356.7	10342.5	10362.3	10435.7	10466.8	10486.6
10°	9498.1	9407.7	9469.8	9461.4	9390.8	9628.0	9563.0	9599.7	9625.2	9885.0	10043.2
12.5°	9094.2	9150.7	9043.4	8989.7	9060.3	9108.3	9156.3	9054.7	9195.9	9130.9	9339.9
15°	8755.3	8721.4	8710.1	8712.9	8698.8	8766.6	8783.5	8806.1	8825.9	8913.4	8947.3
17.5°	8602.8	8659.3	8681.9	8698.8	8670.6	8639.5	8608.4	8563.2	8577.4	8554.8	8619.7
20°	7052.2	6863.0	6851.7	6961.9	6840.4	6908.2	7072.0	8167.8	8131.1	8557.6	8413.5
22.5°	5885.8	5707.9	5555.4	5422.6	5611.9	5690.9	5996.0	6340.5	6899.7	6812.2	7419.4
25°	4806.9	4742.0	4702.4	4682.7	4696.8	4691.1	4758.9	4919.9	5174.1	5772.8	6546.7
27.5°	4496.3	4465.2	4451.1	4405.9	4439.8	4428.5	4482.1	4516.0	4592.3	4651.6	4903.0
30°	4250.6	4213.8	4188.4	4140.4	4174.3	4177.1	4194.1	4281.6	4312.7	4363.5	4442.6
32.5°	1553.4	915.1	858.6	816.2	892.5	1163.6	2042.0	3569.9	4072.6	4112.2	4202.5
35°	152.5	127.1	113.0	113.0	115.8	127.1	169.5	446.2	816.2	3154.7	3948.4
37.5°	59.3	50.8	42.4	39.5	42.4	48.0	65.0	84.7	115.8	240.1	1070.4
40°	25.4	22.6	19.8	19.8	19.8	19.8	22.6	28.2	42.4	79.1	124.3
42.5°	16.9	14.1	14.1	14.1	14.1	14.1	14.1	14.1	19.8	25.4	50.8
45°	11.3	8.5	8.5	8.5	8.5	8.5	8.5	8.5	11.3	14.1	22.6
47.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	11.3
50°	8.5	8.5	8.5	8.5	5.6	8.5	5.6	8.5	8.5	8.5	8.5
52.5°	8.5	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	8.5	8.5
55°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	8.5
57.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
60°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
62.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	8.5	8.5	5.6
65°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	8.5	5.6
67.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
70°	8.5	8.5	5.6	8.5	5.6	5.6	8.5	8.5	8.5	5.6	5.6
72.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	16.9	16.9	11.3
75°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	14.1	16.9	14.1
77.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	14.1	14.1	14.1
80°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	11.3	11.3	11.3
82.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	11.3	11.3	11.3
85°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
87.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5
2.5°	9373.8	9371.0	9430.3	9475.5	9458.5	9475.5	9495.2	9498.1	9503.7	9481.1	9472.7
5°	10300.2	10212.6	10043.2	9921.7	9780.5	9523.5	9396.4	9410.5	9413.3	9404.9	9416.2
7.5°	10478.1	10469.6	10410.3	10384.9	10288.9	10105.3	9811.6	9760.7	9636.5	9557.4	9492.4
10°	10031.9	10235.2	10288.9	10379.3	10435.7	10401.8	10153.3	10116.6	10037.5	9947.1	9966.9
12.5°	9548.9	9715.5	9724.0	10215.4	10325.6	10336.9	10240.9	10291.7	10303.0	10099.6	9981.0
15°	8955.8	9034.9	9201.5	9659.1	9992.3	10201.3	10263.5	10291.7	10153.3	10144.8	10096.8
17.5°	8696.0	8746.8	8823.1	9080.1	9585.6	9893.5	10156.1	10136.4	10190.0	10150.5	10029.0
20°	8368.4	8410.7	8546.3	8676.2	8924.7	9334.3	9825.7	9862.4	9933.0	9924.5	9958.4
22.5°	8362.7	8213.0	8235.6	8337.3	8597.1	8964.3	9486.8	9608.2	9653.4	9684.5	9721.2
25°	6634.2	7823.3	8040.7	8105.7	8275.2	8489.8	9105.5	9150.7	9235.4	9373.8	9475.5
27.5°	5747.4	6555.2	7425.0	7876.9	7984.3	8162.2	8529.3	8597.1	8885.2	8919.1	9077.3
30°	4535.8	5160.0	6459.1	7546.5	7724.4	7848.7	8108.5	8244.1	8368.4	8503.9	8670.6
32.5°	4267.5	4366.3	5086.5	6244.5	7628.4	7535.2	7727.2	7809.2	7944.7	8063.3	8184.8
35°	4021.8	4089.6	4242.1	5114.8	6213.4	7278.2	7408.1	7461.8	7538.0	7628.4	7715.9
37.5°	3764.8	3866.4	3970.9	4205.4	5747.4	7074.8	7072.0	7134.1	7179.3	7255.6	7329.0
40°	683.5	3550.1	3719.6	3872.1	4456.7	5642.9	6755.7	6783.9	6815.0	6863.0	6939.3
42.5°	110.1	593.1	3485.2	3632.0	3798.7	5052.6	6611.7	6495.9	6476.1	6510.0	6577.8
45°	56.5	144.0	700.4	3392.0	3541.7	4030.3	5405.7	6295.3	6275.6	6210.6	6224.7
47.5°	42.4	90.4	172.3	1172.1	3315.7	3459.8	4987.7	4934.0	5309.7	6029.9	5919.7
50°	36.7	62.1	101.7	240.1	2928.8	3185.8	3841.0	4487.8	4685.5	4710.9	5575.1
52.5°	33.9	42.4	73.4	155.3	615.7	2945.7	3123.7	3349.6	3682.9	4397.4	4380.5
55°	31.1	39.5	62.1	104.5	214.6	2654.8	2838.4	2880.8	2951.4	3293.1	3745.0
57.5°	16.9	36.7	59.3	90.4	161.0	485.8	2575.7	2609.6	2666.1	2680.2	2841.2
60°	8.5	33.9	53.7	79.1	118.6	225.9	2315.9	2355.5	2389.3	2395.0	2445.8
62.5°	5.6	31.1	45.2	73.4	98.9	161.0	547.9	1118.4	2126.7	2126.7	2186.0
65°	5.6	22.6	28.2	48.0	90.4	132.7	231.6	268.3	522.5	1285.1	1917.7
67.5°	5.6	8.5	25.4	39.5	67.8	101.7	169.5	197.7	237.2	271.1	502.7
70°	5.6	5.6	22.6	25.4	42.4	76.3	121.4	138.4	161.0	183.6	211.8
72.5°	5.6	5.6	19.8	19.8	28.2	50.8	93.2	101.7	115.8	129.9	149.7
75°	14.1	11.3	16.9	16.9	19.8	39.5	70.6	79.1	84.7	96.0	110.1
77.5°	14.1	14.1	14.1	14.1	14.1	25.4	45.2	50.8	59.3	65.0	76.3
80°	11.3	11.3	11.3	14.1	14.1	16.9	28.2	31.1	33.9	42.4	45.2
82.5°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	16.9	19.8	25.4
85°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	11.3	11.3	11.3	11.3
87.5°	8.5	8.5	8.5	5.6	5.6	8.5	8.5	8.5	8.5	8.5	8.5
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5	9410.5
2.5°	9469.8	9452.9	9438.8	9447.2	9421.8	9410.5	9419.0	9421.8	9427.5	9441.6	9444.4
5°	9444.4	9438.8	9464.2	9478.3	9472.7	9478.3	9478.3	9467.0	9450.1	9461.4	9435.9
7.5°	9427.5	9390.8	9362.5	9368.2	9339.9	9373.8	9404.9	9450.1	9464.2	9464.2	9435.9
10°	9718.4	9678.8	9520.7	9413.3	9342.7	9280.6	9427.5	9277.8	9348.4	9080.1	9387.9
12.5°	9958.4	10012.1	9941.5	9647.8	9596.9	9410.5	9517.8	9334.3	9280.6	8972.8	9071.6
15°	10054.5	9952.8	9930.2	9848.3	9738.1	9684.5	9396.4	9365.3	9277.8	9311.7	9181.8
17.5°	9969.7	10020.6	9952.8	9899.1	9786.2	9659.1	9486.8	9334.3	9212.8	8941.7	9170.5
20°	9887.8	9955.6	9752.3	9786.2	9797.4	9650.6	9560.2	9433.1	9280.6	9026.4	8828.7
22.5°	9752.3	9704.2	9721.2	9670.4	9628.0	9647.8	9523.5	9435.9	9178.9	9063.1	8794.8
25°	9532.0	9515.0	9560.2	9554.6	9452.9	9419.0	9356.9	9263.7	9162.0	8975.6	8755.3
27.5°	9173.3	9260.8	9339.9	9376.6	9323.0	9232.6	9198.7	9145.0	9074.4	8885.2	8721.4
30°	8794.8	8893.7	8984.1	9063.1	9111.1	9071.6	9040.5	9009.5	8902.1	8777.9	8594.3
32.5°	8362.7	8492.6	8616.9	8712.9	8817.4	8848.5	8825.9	8800.5	8710.1	8597.1	8450.3
35°	7862.8	8040.7	8221.5	8393.8	8439.0	8512.4	8585.8	8543.5	8495.5	8382.5	8246.9
37.5°	7439.2	7566.3	7696.2	7913.6	8071.8	8165.0	8294.9	8311.9	8230.0	8176.3	7998.4
40°	7001.4	7117.2	7306.4	7433.5	7651.0	7758.3	7896.7	7958.8	7939.1	7908.0	7752.7
42.5°	6656.8	6713.3	6837.6	6950.6	7165.2	7385.5	7507.0	7574.7	7645.3	7619.9	7540.8
45°	6289.7	6340.5	6382.9	6481.7	6690.7	6885.6	7035.3	7137.0	7264.1	7323.4	7227.3
47.5°	5925.4	5939.5	5990.3	6072.2	6196.5	6346.2	6597.5	6750.0	6868.7	6984.5	6922.3
50°	5645.7	5594.9	5603.4	5654.2	5755.9	5902.8	6083.5	6298.2	6433.7	6574.9	6589.1
52.5°	4934.0	5346.4	5247.5	5275.8	5329.4	5400.0	5589.3	5801.1	5967.7	6089.2	6210.6
55°	4140.4	4222.3	5015.9	4903.0	4936.9	4999.0	5086.5	5298.4	5459.3	5628.8	5798.3
57.5°	3211.2	3821.3	3852.3	4586.6	4569.7	4575.3	4648.8	4770.2	4931.2	5143.0	5287.1
60°	2496.7	2753.7	3253.6	3507.8	4151.7	4174.3	4216.7	4287.3	4425.7	4626.2	4854.9
62.5°	2202.9	2236.8	2414.8	2796.0	3214.0	3719.6	3810.0	3821.3	3883.4	4083.9	4349.4
65°	1934.6	1957.2	2010.9	2050.4	2400.6	2889.2	3324.2	3394.8	3434.3	3553.0	3778.9
67.5°	1333.1	1686.1	1734.1	1762.4	1796.2	2022.2	2561.6	2920.3	2965.5	3070.0	3267.7
70°	257.0	533.8	1460.2	1491.2	1508.2	1559.0	1646.6	2217.1	2516.4	2615.3	2705.7
72.5°	175.1	206.2	248.5	587.5	1242.7	1270.9	1290.7	1364.1	1869.7	2157.8	2205.8
75°	127.1	141.2	166.6	206.2	254.2	827.5	1025.2	1061.9	1098.6	1516.6	1759.5
77.5°	90.4	101.7	113.0	132.7	155.3	200.5	288.1	793.6	830.3	850.1	1200.3
80°	50.8	62.1	76.3	87.6	98.9	113.0	146.9	183.6	409.5	598.7	629.8
82.5°	28.2	33.9	39.5	48.0	53.7	67.8	81.9	98.9	129.9	192.1	406.7
85°	14.1	14.1	14.1	19.8	22.6	31.1	36.7	42.4	59.3	81.9	113.0
87.5°	8.5	8.5	11.3	11.3	11.3	14.1	14.1	14.1	16.9	25.4	36.7
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	9410.5	9410.5	9410.5	9410.5	9410.5
2.5°	9447.2	9438.8	9438.8	9472.7	9464.2
5°	9430.3	9421.8	9419.0	9455.7	9438.8
7.5°	9416.2	9385.1	9376.6	9410.5	9396.4
10°	9359.7	9337.1	9351.2	9339.9	9334.3
12.5°	9263.7	9249.5	9190.2	9195.9	9243.9
15°	9091.4	9147.9	9046.2	9136.6	9156.3
17.5°	8775.1	8902.1	9001.0	9054.7	9063.1
20°	8916.3	8958.6	8907.8	8910.6	8944.5
22.5°	8732.7	8752.5	8766.6	8749.6	8823.1
25°	8439.0	8362.7	8526.5	8560.4	8679.0
27.5°	8348.6	8286.5	8362.7	8357.1	8455.9
30°	8275.2	8074.6	8108.5	8162.2	8283.6
32.5°	8170.7	7854.3	7820.4	7939.1	8074.6
35°	7987.1	7687.7	7608.6	7684.9	7888.2
37.5°	7831.7	7456.1	7298.0	7399.6	7665.1
40°	7600.2	7275.4	7029.6	7120.0	7433.5
42.5°	7323.4	7120.0	6741.6	6803.7	7162.4
45°	7043.8	6863.0	6462.0	6493.0	6919.5
47.5°	6758.5	6591.9	6171.1	6176.7	6608.8
50°	6478.9	6258.6	5911.2	5812.4	6278.4
52.5°	6114.6	5911.2	5648.6	5487.6	5964.9
55°	5770.0	5541.2	5349.2	5100.7	5609.0
57.5°	5433.9	5179.7	5049.8	4730.7	5205.2
60°	4973.6	4852.1	4660.1	4355.0	4840.8
62.5°	4501.9	4462.4	4267.5	3951.2	4391.8
65°	3951.2	4044.4	3843.9	3572.7	3925.8
67.5°	3431.5	3598.1	3377.8	3211.2	3476.7
70°	2877.9	3070.0	2945.7	2886.4	2999.4
72.5°	2332.9	2519.3	2530.6	2488.2	2524.9
75°	1801.9	2008.1	2121.0	2056.1	2064.6
77.5°	1367.0	1465.8	1590.1	1640.9	1629.6
80°	844.5	1016.7	1118.4	1222.9	1186.2
82.5°	426.5	570.5	694.8	807.7	754.1
85°	177.9	228.8	319.1	420.8	403.9
87.5°	53.7	90.4	96.0	135.6	127.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)