

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-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33524)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-170HL-RM-UNV-L935-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

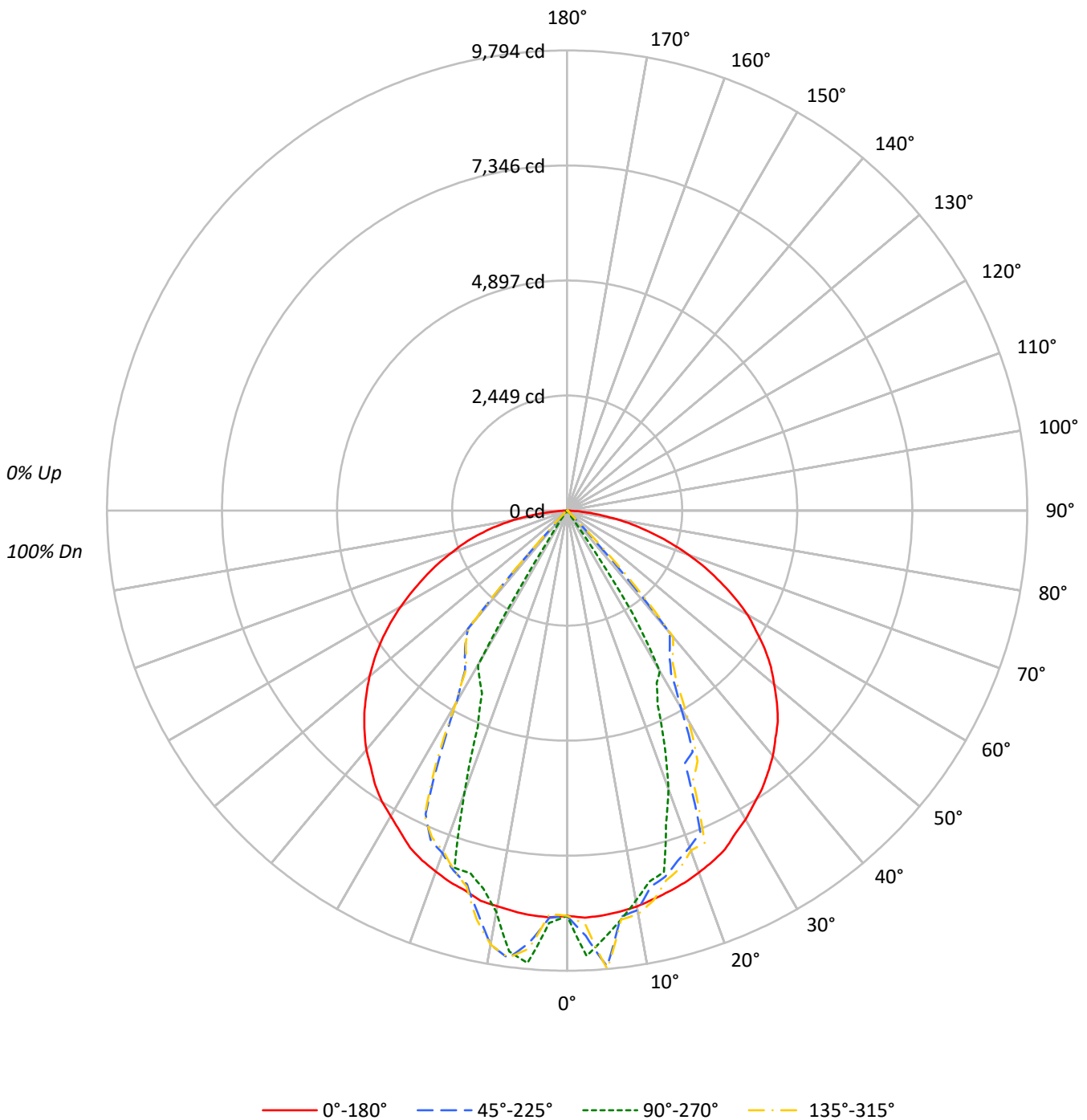
Lumens per Lamp: N/A
Luminaire Lumens: 12263.1 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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



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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	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°	34847	34847	34847	34847
5°	35036	35839	35026	37953
10°	35001	32430	34980	33366
15°	34955	30270	34869	30349
20°	35047	23842	34948	24136
25°	35204	17254	35032	16282
30°	35102	15136	34731	14550
35°	35272	334	34754	404
40°	35467	73	34618	73
45°	35678	43	34338	32
50°	35507	34	33878	34
55°	35421	24	33245	24
60°	34906	25	32177	25
65°	33282	41	30911	28
70°	31137	45	29641	45
75°	27911	51	28368	51
80°	23236	58	24563	58
85°	14558	68	14865	68



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	865.3	7.1
10°-20°	2360.1	19.2
20°-30°	3003.2	24.5
30°-40°	2536.9	20.7
40°-50°	1658.5	13.5
50°-60°	1045.0	8.5
60°-70°	556.3	4.5
70°-80°	202.8	1.7
80°-90°	34.9	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6228.5	50.8
0°-40°	8765.4	71.5
0°-60°	11469.0	93.5
0°-90°	12263.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12263.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8624	8624	8624	8624	8624	
5°	8650	9126	8648	9665	8650	823
15°	8391	7964	8371	7985	8391	2372
25°	7954	4548	7915	4291	7954	3658
35°	7229	85	7123	104	7229	4522
45°	6341	10	6103	8	6341	4877
55°	5140	5	4825	5	5140	4580
65°	3598	8	3342	5	3598	3563
75°	1892	8	1923	8	1892	2008
85°	370	8	378	8	370	468
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°	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3
2.5°	8673.4	8678.6	8681.2	8686.4	8694.1	8696.7	8701.9	8696.7	8696.7	8696.7	8696.7
5°	8650.1	8660.5	8668.3	8678.6	8696.7	8699.3	8720.0	8722.6	8733.0	8753.7	8769.2
7.5°	8611.3	8621.7	8637.2	8663.1	8689.0	8717.4	8753.7	8792.5	8846.9	8898.6	8963.3
10°	8554.4	8567.3	8585.4	8608.7	8735.6	8753.7	8833.9	8945.2	8976.3	9139.3	9261.0
12.5°	8471.5	8515.5	8562.1	8582.8	8704.5	8896.0	9165.2	9110.9	9051.3	9584.5	9576.8
15°	8391.3	8450.8	8427.5	8595.8	8707.1	9041.0	8927.1	9170.4	9615.6	9506.9	9512.1
17.5°	8305.9	8318.8	8448.3	8588.0	8787.3	8958.2	9097.9	9431.8	9519.8	9527.6	9431.8
20°	8197.2	8259.3	8448.3	8575.1	8911.6	8991.8	9294.6	9465.5	9429.2	9341.2	9178.2
22.5°	8085.9	8274.8	8466.4	8645.0	8880.5	9095.3	9245.5	9325.7	9136.7	8789.9	8603.6
25°	7953.9	8065.2	8316.2	8577.7	8872.7	8997.0	9085.0	8955.6	8709.7	8399.1	8085.9
27.5°	7749.4	7928.0	8249.0	8544.0	8810.6	8960.7	8818.4	8507.8	8111.8	7907.3	7764.9
30°	7591.5	7824.5	8088.5	8373.2	8650.1	8738.1	8375.8	8021.2	7749.4	7544.9	7513.9
32.5°	7400.0	7731.3	7982.4	8254.1	8487.1	8370.6	8018.6	7560.5	7335.3	7257.6	7288.7
35°	7229.2	7480.2	7808.9	8075.5	8243.8	7982.4	7425.9	7141.2	7032.4	7076.4	7019.5
37.5°	7024.7	7356.0	7658.8	7889.2	7832.2	7438.8	6967.7	6786.6	6799.5	6763.3	6654.6
40°	6812.4	7128.2	7444.0	7661.4	7462.1	6861.6	6548.4	6509.6	6517.4	6400.9	6245.6
42.5°	6564.0	6851.3	7167.0	7363.8	6934.1	6465.6	6253.4	6258.5	6191.2	6028.2	5945.4
45°	6341.4	6605.4	6934.1	6952.2	6424.2	6033.4	5971.2	5903.9	5753.8	5699.5	5637.3
47.5°	6056.7	6349.1	6620.9	6522.5	5924.6	5681.3	5634.8	5487.2	5412.2	5370.7	5319.0
50°	5753.8	6048.9	6297.4	6017.8	5453.6	5396.6	5243.9	5127.4	5075.7	5031.7	4985.1
52.5°	5466.5	5709.8	5963.5	5482.0	5091.2	5036.9	4863.4	4796.1	4744.4	4695.2	4684.8
55°	5140.4	5355.2	5528.6	4972.1	4744.4	4617.6	4493.3	4446.7	4397.5	4374.2	4413.1
57.5°	4770.3	5013.6	4987.7	4470.0	4369.1	4185.3	4138.7	4107.7	4071.4	4086.9	3763.4
60°	4436.4	4622.7	4495.9	4102.5	3931.6	3807.4	3766.0	3745.3	3766.0	3450.2	3033.5
62.5°	4024.8	4234.5	3978.2	3672.8	3491.6	3432.1	3395.9	3424.3	3121.5	2774.7	2673.7
65°	3597.8	3825.5	3447.6	3212.1	3098.2	3046.4	3043.9	2803.1	2505.5	2370.9	2370.9
67.5°	3186.2	3421.7	2935.1	2738.4	2694.4	2699.6	2549.5	2184.5	2101.7	2011.1	1749.7
70°	2748.8	2955.9	2425.2	2306.2	2280.3	2262.2	1897.2	1798.9	1700.5	1459.8	1439.1
72.5°	2314.0	2414.9	1949.0	1920.5	1915.4	1591.8	1519.3	1351.1	1237.2	1208.7	1195.8
75°	1892.1	1861.0	1540.0	1565.9	1320.0	1206.2	1089.7	991.3	975.8	965.4	240.7
77.5°	1493.5	1338.2	1213.9	1056.0	944.7	802.4	779.1	763.6	502.1	181.2	147.5
80°	1087.1	867.1	807.6	685.9	585.0	561.7	574.6	176.0	139.8	116.5	100.9
82.5°	691.1	553.9	453.0	396.0	385.7	168.2	124.2	100.9	88.0	75.1	62.1
85°	370.1	245.9	227.8	191.5	113.9	77.6	64.7	49.2	41.4	33.6	31.1
87.5°	116.5	98.4	80.2	64.7	38.8	25.9	20.7	18.1	15.5	12.9	12.9
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°	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3
2.5°	8691.6	8696.7	8694.1	8701.9	8701.9	8712.3	8720.0	8727.8	8743.3	8751.1	8810.6
5°	8802.9	8815.8	8854.6	8890.9	8934.9	8947.8	9022.9	9041.0	9129.0	9139.3	9429.2
7.5°	9051.3	9100.5	9193.7	9286.9	9380.0	9439.6	9543.1	9607.8	9677.7	9739.8	9970.2
10°	9351.6	9434.4	9525.0	9618.2	9672.5	9786.4	9848.5	9858.9	9840.8	9739.8	9367.1
12.5°	9646.6	9729.5	9690.6	9708.8	9773.5	9571.6	9600.1	9455.1	9556.1	9056.5	8686.4
15°	9605.2	9600.1	9504.3	9193.7	9245.5	8859.8	8704.5	8585.4	8681.2	8629.4	8572.5
17.5°	9481.0	9245.5	9079.8	8707.1	8549.2	8440.5	8443.1	8445.7	8399.1	8448.3	8303.3
20°	8955.6	8691.6	8445.7	8313.7	8267.1	8189.4	8228.2	8189.4	8192.0	8207.5	7984.9
22.5°	8256.7	8176.5	8034.1	8075.5	8060.0	8129.9	8078.1	7997.9	8023.8	7907.3	7739.1
25°	7974.6	7881.4	7876.2	7891.8	7868.5	7837.4	7790.8	7669.2	7661.4	7625.2	7547.5
27.5°	7689.9	7695.1	7710.6	7664.0	7581.2	7519.0	7449.2	7389.6	7412.9	7371.5	7265.4
30°	7493.2	7490.6	7397.4	7356.0	7203.3	7205.9	7187.7	7151.5	7128.2	7130.8	7063.5
32.5°	7213.6	7133.4	7027.3	6975.5	6962.6	6916.0	6879.7	6887.5	6905.6	6840.9	6910.8
35°	6926.3	6760.7	6745.1	6701.1	6659.7	6628.7	6641.6	6589.8	6587.3	6579.5	6010.1
37.5°	6540.7	6460.4	6452.7	6406.1	6377.6	6369.8	6320.7	6328.4	6351.7	6393.1	5124.9
40°	6222.3	6149.8	6131.7	6129.1	6067.0	6061.8	6074.8	6123.9	6157.6	5898.8	4884.1
42.5°	5880.6	5885.8	5828.9	5792.6	5800.4	5823.7	5885.8	5715.0	4951.4	4718.5	4464.8
45°	5588.2	5562.3	5531.2	5520.9	5588.2	5541.6	4858.3	4483.0	4392.4	4382.0	3670.2
47.5°	5282.7	5275.0	5262.0	5269.8	4886.7	4356.1	4200.8	4151.7	4167.2	4156.8	3152.6
50°	4974.7	4985.1	4985.1	4353.5	3996.4	3908.4	3921.3	3965.3	3690.9	3445.0	2937.7
52.5°	4708.1	4627.9	3965.3	3737.5	3657.3	3696.1	3602.9	3258.7	3010.2	2865.3	2717.7
55°	4213.8	3623.6	3476.1	3439.9	3468.3	3124.1	2911.9	2689.3	2624.5	2609.0	2523.6
57.5°	3315.6	3196.6	3209.5	3064.6	2735.8	2541.7	2456.3	2425.2	2396.8	2376.1	207.1
60°	2932.6	2966.2	2715.1	2404.5	2272.5	2246.7	2225.9	2197.5	2192.3	2156.1	132.0
62.5°	2684.1	2360.5	2143.1	2065.5	2034.4	2026.6	1987.8	1974.9	1677.2	230.4	98.4
65°	2024.1	1892.1	1850.6	1832.5	1798.9	1798.9	1493.5	235.5	191.5	165.7	88.0
67.5°	1651.3	1641.0	1620.3	1597.0	1087.1	227.8	199.3	173.4	150.1	132.0	77.6
70°	1397.7	1392.5	1268.3	232.9	194.1	170.8	150.1	134.6	124.2	111.3	69.9
72.5°	1146.6	232.9	196.7	170.8	147.5	134.6	121.7	108.7	98.4	90.6	56.9
75°	178.6	157.9	139.8	126.8	116.5	103.5	93.2	85.4	82.8	72.5	38.8
77.5°	129.4	111.3	100.9	90.6	80.2	72.5	62.1	54.4	49.2	41.4	28.5
80°	90.6	80.2	72.5	59.5	51.8	44.0	38.8	33.6	31.1	25.9	12.9
82.5°	51.8	44.0	38.8	31.1	28.5	23.3	20.7	18.1	18.1	12.9	12.9
85°	23.3	23.3	18.1	15.5	12.9	12.9	12.9	10.4	10.4	7.8	7.8
87.5°	10.4	10.4	10.4	10.4	10.4	7.8	7.8	7.8	7.8	7.8	5.2
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°	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3
2.5°	8893.4	8927.1	8991.8	9059.1	8984.0	9253.2	9232.5	9323.1	9372.3	9395.6	9449.9
5°	9685.5	9835.6	9884.8	9737.2	9651.8	9563.8	9364.5	9214.4	9232.5	9183.3	9004.7
7.5°	9669.9	9349.0	8916.7	8720.0	8704.5	8681.2	8743.3	8779.6	8784.7	8782.1	8777.0
10°	8852.0	8686.4	8657.9	8632.0	8642.4	8546.6	8502.6	8378.4	8445.7	8409.4	8422.4
12.5°	8603.6	8564.7	8412.0	8199.8	8326.6	8230.8	8176.5	8212.7	8171.3	8132.5	8119.5
15°	8456.0	8205.0	8119.5	8067.8	8031.5	8010.8	8028.9	7987.5	7974.6	7966.8	7984.9
17.5°	8150.6	8049.7	7956.5	7819.3	7821.9	7814.1	7865.9	7943.5	7948.7	7550.1	7190.3
20°	7909.9	7827.1	7708.0	7622.6	7739.1	7532.0	6732.2	6351.7	6292.2	6292.2	6302.5
22.5°	7718.3	7534.6	7542.3	7407.8	6318.1	6095.5	6100.7	6123.9	6017.8	5655.5	5616.6
25°	7456.9	7428.5	6861.6	5929.8	5937.6	5764.2	5497.6	5122.3	4715.9	4715.9	4648.6
27.5°	7260.2	6657.1	5828.9	5790.1	5207.7	4840.1	4612.4	4268.1	4221.5	4177.5	4182.7
30°	7092.0	5632.2	5652.9	4840.1	4410.5	4105.1	4086.9	4030.0	4001.5	3993.8	3965.3
32.5°	5606.3	5484.6	4731.4	4120.6	3952.4	3903.2	3879.9	3815.2	3812.6	3763.4	3421.7
35°	5256.9	4814.3	3960.1	3794.5	3745.3	3698.7	3659.9	2456.3	289.9	116.5	100.9
37.5°	4858.3	4022.2	3662.5	3587.4	3540.8	2616.8	261.4	90.6	64.7	46.6	41.4
40°	4118.0	3592.6	3478.7	3395.9	1400.3	90.6	56.9	44.0	25.9	23.3	20.7
42.5°	3473.5	3385.5	3263.9	993.9	103.5	44.0	28.5	20.7	18.1	18.1	15.5
45°	3250.9	3173.3	1314.9	98.4	64.7	20.7	18.1	18.1	15.5	10.4	10.4
47.5°	3043.9	2678.9	119.1	62.1	41.4	18.1	15.5	10.4	10.4	10.4	7.8
50°	2823.8	147.5	82.8	46.6	25.9	10.4	10.4	10.4	10.4	7.8	7.8
52.5°	528.0	103.5	67.3	41.4	12.9	10.4	10.4	10.4	7.8	7.8	7.8
55°	124.2	82.8	62.1	36.2	10.4	10.4	10.4	7.8	7.8	7.8	5.2
57.5°	93.2	62.1	49.2	33.6	10.4	7.8	7.8	7.8	7.8	7.8	5.2
60°	77.6	44.0	38.8	31.1	7.8	7.8	7.8	7.8	7.8	7.8	5.2
62.5°	54.4	36.2	28.5	23.3	7.8	7.8	7.8	7.8	7.8	7.8	7.8
65°	44.0	28.5	23.3	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
67.5°	38.8	23.3	15.5	5.2	7.8	7.8	7.8	7.8	7.8	7.8	7.8
70°	31.1	7.8	7.8	5.2	7.8	7.8	7.8	7.8	7.8	7.8	7.8
72.5°	25.9	7.8	5.2	5.2	7.8	7.8	7.8	7.8	7.8	7.8	7.8
75°	25.9	12.9	5.2	5.2	7.8	7.8	10.4	10.4	7.8	7.8	7.8
77.5°	18.1	12.9	5.2	5.2	7.8	7.8	10.4	10.4	7.8	7.8	7.8
80°	10.4	12.9	5.2	7.8	7.8	15.5	18.1	10.4	7.8	7.8	7.8
82.5°	10.4	12.9	15.5	15.5	7.8	12.9	15.5	12.9	10.4	7.8	7.8
85°	10.4	7.8	10.4	12.9	7.8	12.9	12.9	10.4	10.4	7.8	7.8
87.5°	5.2	7.8	7.8	10.4	10.4	10.4	12.9	10.4	10.4	10.4	7.8
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3
2.5°	9475.8	9486.2	9323.1	9266.2	9315.3	9305.0	9261.0	9097.9	9079.8	8971.1	8813.2
5°	9056.5	9126.4	9041.0	9188.5	9118.6	9188.5	9400.8	9499.1	9659.6	9757.9	9794.2
7.5°	8764.0	8779.6	8779.6	8792.5	8805.4	8808.0	8792.5	8782.1	8738.1	8683.8	8782.1
10°	8409.4	8427.5	8458.6	8453.4	8450.8	8505.2	8518.1	8629.4	8624.3	8645.0	8720.0
12.5°	8225.7	8085.9	8212.7	8179.1	8225.7	8153.2	8287.8	8264.5	8272.2	8334.4	8494.8
15°	7920.2	7964.2	7995.3	7995.3	8013.4	7997.9	7982.4	8088.5	8153.2	8155.8	8145.4
17.5°	7332.7	6998.8	7340.5	7252.5	7953.9	7972.0	7912.5	7863.3	7863.3	7902.1	7984.9
20°	6294.8	6302.5	6305.1	6338.8	6380.2	6377.6	6380.2	7400.0	7884.0	7772.7	7697.6
22.5°	5518.3	5422.5	5601.1	5588.2	5810.8	6056.7	6292.2	6268.9	6284.4	7004.0	7651.1
25°	4423.4	4547.7	4446.7	4490.7	4741.8	5034.3	5215.5	5689.1	6204.2	6167.9	6336.2
27.5°	4164.6	4130.9	4177.5	4177.5	4211.2	4250.0	4351.0	4617.6	5075.7	5557.1	6012.7
30°	3918.7	3947.2	3952.4	3998.9	4024.8	4050.7	4066.2	4167.2	4270.7	4604.6	5166.3
32.5°	2942.9	2580.5	3395.9	3615.9	3802.2	3846.2	3877.3	3918.7	3993.8	4042.9	4325.1
35°	85.4	85.4	90.6	103.5	132.0	890.4	3390.7	3737.5	3786.7	3848.8	3900.6
37.5°	41.4	31.1	36.2	38.8	46.6	64.7	93.2	289.9	3227.6	3649.5	3706.5
40°	18.1	18.1	18.1	18.1	20.7	25.9	38.8	64.7	98.4	2596.1	3502.0
42.5°	15.5	15.5	15.5	15.5	15.5	15.5	18.1	23.3	46.6	111.3	1837.7
45°	10.4	10.4	7.8	10.4	10.4	12.9	15.5	15.5	20.7	69.9	126.8
47.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	12.9	15.5	46.6	67.3
50°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	36.2	46.6
52.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	15.5	41.4
55°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	7.8	7.8	10.4	36.2
57.5°	5.2	5.2	5.2	5.2	5.2	7.8	5.2	5.2	7.8	7.8	33.6
60°	5.2	5.2	5.2	5.2	5.2	7.8	7.8	7.8	7.8	7.8	31.1
62.5°	7.8	7.8	5.2	7.8	5.2	5.2	7.8	7.8	7.8	7.8	20.7
65°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	5.2	7.8
67.5°	7.8	7.8	7.8	7.8	5.2	7.8	5.2	7.8	7.8	5.2	5.2
70°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	5.2	5.2	5.2	5.2
72.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	5.2	5.2	5.2	5.2
75°	7.8	7.8	7.8	7.8	7.8	7.8	10.4	10.4	5.2	5.2	5.2
77.5°	7.8	7.8	7.8	7.8	7.8	7.8	12.9	15.5	12.9	12.9	5.2
80°	7.8	7.8	7.8	7.8	7.8	7.8	12.9	12.9	12.9	12.9	18.1
82.5°	7.8	7.8	7.8	7.8	7.8	7.8	10.4	10.4	10.4	10.4	12.9
85°	7.8	7.8	7.8	7.8	7.8	7.8	10.4	10.4	10.4	7.8	10.4
87.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	10.4	7.8	7.8	7.8
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3
2.5°	8826.1	8738.1	8709.7	8650.1	8645.0	8650.1	8637.2	8619.1	8629.4	8611.3	8595.8
5°	9814.9	9579.3	9426.6	9222.2	8940.0	8877.9	8862.4	8774.4	8743.3	8733.0	8691.6
7.5°	9015.1	9444.8	9703.6	9791.6	9460.3	9382.6	9292.0	9219.6	9149.7	9017.7	8937.4
10°	8660.5	8681.2	8929.7	9219.6	9690.6	9755.4	9804.5	9646.6	9602.6	9266.2	9193.7
12.5°	8577.7	8580.3	8608.7	8784.7	9154.9	9196.3	9369.7	9462.9	9576.8	9641.5	9589.7
15°	8199.8	8409.4	8564.7	8580.3	8613.9	8686.4	8738.1	9061.7	9198.9	9566.4	9545.7
17.5°	8023.8	8091.1	8316.2	8500.0	8469.0	8443.1	8484.5	8528.5	8660.5	9028.0	9022.9
20°	7731.3	7946.1	8067.8	8259.3	8432.7	8440.5	8393.9	8368.0	8316.2	8375.8	8430.1
22.5°	7607.1	7640.7	7868.5	8003.1	8199.8	8269.7	8280.0	8282.6	8254.1	8223.1	8207.5
25°	7594.1	7488.0	7604.5	7772.7	7917.6	7992.7	8078.1	8106.6	8096.2	8096.2	8080.7
27.5°	6214.5	7454.3	7392.2	7503.5	7679.5	7731.3	7775.3	7863.3	7917.6	7956.5	7974.6
30°	5919.5	6142.1	7226.6	7242.1	7420.7	7415.5	7464.7	7537.2	7607.1	7697.6	7720.9
32.5°	5236.2	5782.3	6615.7	6980.7	7167.0	7185.2	7211.0	7231.7	7296.5	7397.4	7485.4
35°	4195.7	5267.2	5668.4	6856.4	6890.1	6926.3	6941.9	6991.0	7011.7	7053.2	7130.8
37.5°	3797.1	4353.5	5438.0	5929.8	6571.7	6602.8	6685.6	6706.3	6740.0	6773.6	6833.1
40°	3566.7	3719.4	4527.0	5295.7	6315.5	6336.2	6364.7	6416.4	6419.0	6457.8	6512.2
42.5°	3382.9	3481.3	3716.8	5057.6	6134.3	6131.7	6064.4	6098.1	6113.6	6155.0	6230.1
45°	2702.2	3266.5	3416.6	4130.9	4884.1	5236.2	5911.7	5800.4	5797.8	5813.4	5893.6
47.5°	137.2	3072.3	3178.4	3408.8	4612.4	4625.3	4713.3	5453.6	5567.5	5531.2	5539.0
50°	93.2	212.2	2961.0	3067.2	3975.6	4296.6	4361.3	4395.0	4822.0	5298.3	5220.6
52.5°	72.5	121.7	1814.4	2847.1	3230.2	3465.8	3882.5	4120.6	4146.5	4338.0	4987.7
55°	64.7	93.2	196.7	2627.1	2746.2	2798.0	3041.3	3458.0	3794.5	3895.4	3903.2
57.5°	56.9	85.4	134.6	1188.0	2497.7	2508.1	2549.5	2694.4	2997.3	3274.2	3587.4
60°	51.8	75.1	106.1	204.5	2270.0	2295.8	2303.6	2342.4	2378.7	2567.6	2927.4
62.5°	31.1	59.5	93.2	147.5	1796.3	2062.9	2060.3	2086.2	2119.8	2140.5	2213.0
65°	25.9	46.6	80.2	124.2	220.0	274.4	1666.9	1853.2	1873.9	1902.4	1915.4
67.5°	23.3	41.4	59.5	98.4	165.7	188.9	217.4	269.2	1470.2	1656.5	1682.4
70°	20.7	28.5	49.2	82.8	134.6	144.9	163.1	186.4	220.0	271.8	1330.4
72.5°	12.9	20.7	33.6	59.5	103.5	116.5	126.8	142.4	157.9	188.9	217.4
75°	5.2	15.5	28.5	44.0	80.2	88.0	95.8	106.1	119.1	139.8	155.3
77.5°	5.2	12.9	23.3	31.1	51.8	59.5	69.9	77.6	88.0	98.4	113.9
80°	18.1	10.4	15.5	23.3	36.2	38.8	44.0	49.2	56.9	64.7	75.1
82.5°	12.9	15.5	18.1	15.5	18.1	23.3	25.9	31.1	33.6	38.8	41.4
85°	10.4	10.4	12.9	12.9	12.9	12.9	12.9	12.9	15.5	18.1	23.3
87.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	10.4	10.4
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3
2.5°	8595.8	8590.6	8575.1	8575.1	8572.5	8582.8	8590.6	8598.4	8595.8	8611.3	8595.8
5°	8660.5	8647.6	8624.3	8603.6	8595.8	8601.0	8593.2	8601.0	8590.6	8603.6	8580.3
7.5°	8839.1	8795.1	8704.5	8668.3	8621.7	8619.1	8595.8	8590.6	8575.1	8575.1	8546.6
10°	9154.9	8942.6	8916.7	8808.0	8769.2	8580.3	8621.7	8551.8	8544.0	8510.4	8497.4
12.5°	9413.7	9248.0	9198.9	9103.1	8994.4	8611.3	8696.7	8546.6	8538.8	8471.5	8401.7
15°	9418.9	9514.6	9380.0	9116.0	9092.7	8828.7	8655.3	8603.6	8536.3	8334.4	8368.0
17.5°	9116.0	9336.0	9400.8	9343.8	9178.2	8999.6	8756.3	8652.7	8450.8	8360.3	8298.1
20°	8624.3	8846.9	9123.8	9141.9	9245.5	9118.6	8800.3	8632.0	8388.7	8230.8	8179.1
22.5°	8233.4	8396.5	8714.8	8862.4	8989.2	9033.2	8831.3	8582.8	8280.0	8127.3	8096.2
25°	8026.4	8062.6	8158.4	8331.8	8611.3	8813.2	8841.7	8577.7	8419.8	8085.9	7909.9
27.5°	7951.3	7920.2	7881.4	7969.4	8179.1	8425.0	8588.0	8632.0	8238.6	7920.2	7744.2
30°	7759.8	7777.9	7718.3	7687.3	7824.5	8078.1	8368.0	8440.5	8137.7	7808.9	7607.1
32.5°	7524.2	7555.3	7565.6	7511.3	7482.8	7658.8	7972.0	8145.4	8129.9	7651.1	7425.9
35°	7229.2	7317.2	7340.5	7343.0	7296.5	7268.0	7449.2	7808.9	7946.1	7578.6	7252.5
37.5°	6918.6	6944.4	7071.3	7104.9	7104.9	7019.5	7154.1	7441.4	7632.9	7415.5	7040.2
40°	6530.3	6613.1	6732.2	6791.7	6851.3	6859.0	6784.0	6985.9	7301.6	7247.3	6840.9
42.5°	6248.2	6302.5	6375.0	6455.3	6576.9	6608.0	6530.3	6566.6	6895.3	7037.6	6582.1
45°	5919.5	5991.9	6012.7	6100.7	6227.5	6318.1	6315.5	6240.4	6504.4	6680.4	6393.1
47.5°	5583.0	5652.9	5689.1	5733.1	5826.3	5942.8	6007.5	5973.8	6025.6	6369.8	6142.1
50°	5236.2	5275.0	5347.5	5396.6	5458.8	5526.0	5681.3	5712.4	5639.9	5914.3	5865.1
52.5°	4907.4	4920.4	4969.6	5018.7	5101.6	5150.7	5275.0	5368.2	5363.0	5443.2	5557.1
55°	4651.2	4594.3	4604.6	4643.4	4697.8	4772.8	4842.7	4987.7	5036.9	5052.4	5233.6
57.5°	3634.0	4219.0	4270.7	4268.1	4332.8	4366.5	4431.2	4527.0	4703.0	4664.1	4866.0
60°	3302.7	3367.4	3856.6	3913.5	3936.8	3967.9	4045.5	4133.5	4263.0	4345.8	4433.8
62.5°	2518.4	2911.9	3059.4	3491.6	3558.9	3577.0	3628.8	3670.2	3804.8	3993.8	3957.5
65°	1949.0	2117.2	2567.6	2743.6	3111.2	3157.7	3230.2	3274.2	3313.0	3530.5	3540.8
67.5°	1685.0	1710.9	1832.5	2171.6	2404.5	2764.3	2808.3	2847.1	2906.7	3062.0	3157.7
70°	1439.1	1470.2	1503.8	1532.3	1835.1	2073.2	2407.1	2420.1	2458.9	2562.4	2779.8
72.5°	271.8	1229.4	1250.2	1268.3	1301.9	1459.8	1778.2	2037.0	2052.5	2101.7	2301.0
75°	183.8	214.8	295.1	1014.6	1048.3	1058.6	1113.0	1436.5	1674.6	1685.0	1773.0
77.5°	132.0	147.5	178.6	212.2	541.0	812.7	825.7	885.2	1131.1	1309.7	1325.2
80°	90.6	100.9	119.1	134.6	165.7	217.4	600.5	618.6	649.7	895.6	942.1
82.5°	51.8	59.5	69.9	85.4	98.4	124.2	160.5	207.1	421.9	450.4	597.9
85°	25.9	28.5	33.6	41.4	49.2	59.5	80.2	98.4	134.6	243.3	251.1
87.5°	12.9	12.9	12.9	12.9	20.7	23.3	28.5	36.2	46.6	69.9	90.6
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3
2.5°	8598.4	8634.6	8665.7	8673.4	8673.4	8678.6	8686.4	8691.6	8696.7	8701.9	8696.7
5°	8582.8	8621.7	8647.6	8655.3	8655.3	8670.8	8683.8	8699.3	8707.1	8707.1	8701.9
7.5°	8544.0	8572.5	8606.1	8626.8	8629.4	8655.3	8678.6	8676.0	8686.4	8691.6	8704.5
10°	8492.3	8492.3	8549.2	8564.7	8577.7	8606.1	8613.9	8629.4	8665.7	8670.8	8704.5
12.5°	8466.4	8440.5	8507.8	8515.5	8559.6	8523.3	8569.9	8585.4	8549.2	8598.4	8533.7
15°	8349.9	8381.0	8370.6	8393.9	8471.5	8430.1	8557.0	8515.5	8608.7	8497.4	8694.1
17.5°	8254.1	8249.0	8290.4	8311.1	8326.6	8414.6	8448.3	8494.8	8531.1	8500.0	8577.7
20°	8184.2	8142.8	8173.9	8197.2	8251.5	8318.8	8339.5	8269.7	8391.3	8598.4	8647.6
22.5°	8052.2	8023.8	8060.0	8060.0	8142.8	8132.5	8210.1	8166.1	8280.0	8520.7	8771.8
25°	7873.6	7876.2	7915.1	7961.7	7977.2	8093.7	8135.1	8192.0	8334.4	8621.7	8774.4
27.5°	7692.5	7676.9	7700.2	7796.0	7876.2	7961.7	7974.6	8168.7	8362.8	8559.6	8694.1
30°	7511.3	7495.8	7511.3	7581.2	7676.9	7733.9	7876.2	8135.1	8316.2	8450.8	8577.7
32.5°	7317.2	7301.6	7337.9	7389.6	7557.9	7565.6	7847.8	8091.1	8233.4	8331.8	8308.5
35°	7110.1	7089.4	7123.0	7203.3	7358.6	7415.5	7710.6	7891.8	8052.2	8098.8	7990.1
37.5°	6861.6	6825.4	6866.8	6978.1	7141.2	7306.8	7552.7	7762.4	7847.8	7723.5	7594.1
40°	6602.8	6576.9	6649.4	6706.3	6897.9	7128.2	7410.3	7557.9	7503.5	7361.2	7218.8
42.5°	6372.4	6318.1	6382.8	6491.5	6708.9	6970.3	7198.1	7280.9	7151.5	6941.9	6776.2
45°	6090.3	6025.6	6103.2	6248.2	6481.1	6778.8	6957.4	6928.9	6708.9	6527.7	6300.0
47.5°	5795.2	5717.6	5795.2	5968.6	6230.1	6545.8	6675.3	6545.8	6268.9	6041.1	5857.4
50°	5505.3	5414.8	5489.8	5751.2	6007.5	6250.8	6248.2	5997.1	5831.5	5583.0	5422.5
52.5°	5218.0	5088.6	5163.7	5448.4	5704.6	5981.6	5777.1	5544.2	5344.9	5127.4	5075.7
55°	4863.4	4723.7	4824.6	5238.7	5435.5	5598.5	5272.4	5067.9	4871.2	4762.5	4697.8
57.5°	4527.0	4374.2	4462.3	4951.4	5096.4	5137.8	4837.6	4547.7	4431.2	4395.0	4301.8
60°	4180.1	4006.7	4089.5	4653.8	4754.7	4586.5	4291.4	4066.2	4042.9	3970.5	3898.0
62.5°	3848.8	3657.3	3709.1	4283.7	4330.2	4024.8	3753.1	3693.5	3636.6	3564.1	3525.3
65°	3468.3	3269.0	3341.5	3890.2	3846.2	3452.8	3300.1	3287.2	3212.1	3152.6	3209.5
67.5°	3118.9	2883.4	2984.3	3460.6	3261.3	2940.3	2878.2	2847.1	2787.6	2821.3	2223.4
70°	2735.8	2479.6	2616.8	2997.3	2702.2	2490.0	2466.7	2420.1	2422.7	1925.7	1622.9
72.5°	2308.8	2086.2	2285.5	2490.0	2137.9	2075.8	2042.2	2037.0	1643.6	1335.6	1260.5
75°	1933.5	1708.3	1923.1	2000.8	1703.1	1661.7	1659.1	1371.8	1079.3	1030.1	1006.9
77.5°	1509.0	1335.6	1540.0	1423.6	1307.1	1260.5	1131.1	849.0	812.7	779.1	292.5
80°	1017.2	1030.1	1149.2	981.0	931.8	794.6	626.4	600.5	517.7	207.1	163.1
82.5°	618.6	776.5	732.5	613.4	600.5	432.2	396.0	201.9	150.1	119.1	103.5
85°	321.0	393.4	377.9	333.9	248.5	222.6	124.2	95.8	77.6	59.5	49.2
87.5°	108.7	144.9	139.8	111.3	85.4	67.3	44.0	36.2	25.9	20.7	18.1
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3
2.5°	8691.6	8691.6	8686.4	8691.6	8694.1	8689.0	8689.0	8694.1	8696.7	8699.3	8712.3
5°	8704.5	8709.7	8717.4	8733.0	8735.6	8766.6	8779.6	8787.3	8795.1	8797.7	8779.6
7.5°	8733.0	8751.1	8766.6	8764.0	8745.9	8696.7	8681.2	8668.3	8691.6	8751.1	8821.0
10°	8758.9	8676.0	8520.7	8733.0	8668.3	8727.8	8903.8	8942.6	9061.7	9229.9	9279.1
12.5°	8580.3	8808.0	8857.2	8619.1	9059.1	8896.0	9090.2	9261.0	9310.2	9481.0	9377.5
15°	8771.8	8883.1	8958.2	9196.3	9170.4	9310.2	9364.5	9330.9	9338.6	9382.6	9499.1
17.5°	8769.2	8991.8	9041.0	9201.5	9310.2	9312.8	9297.2	9281.7	9323.1	9356.8	9286.9
20°	8919.3	8991.8	9087.6	9152.3	9173.0	9198.9	9248.0	9209.2	9131.6	9056.5	9025.4
22.5°	8844.3	9007.3	9090.2	9100.5	9087.6	9007.3	8934.9	8826.1	8789.9	8751.1	8764.0
25°	8859.8	8934.9	8924.5	8883.1	8828.7	8678.6	8642.4	8595.8	8525.9	8357.7	8205.0
27.5°	8748.5	8709.7	8663.1	8562.1	8463.8	8383.5	8293.0	8142.8	8018.6	7837.4	7770.1
30°	8562.1	8406.8	8293.0	8233.4	8137.7	8003.1	7865.9	7682.1	7524.2	7488.0	7454.3
32.5°	8205.0	8052.2	7959.1	7814.1	7651.1	7490.6	7332.7	7260.2	7226.6	7231.7	7200.7
35°	7840.0	7705.4	7565.6	7348.2	7226.6	7066.1	7009.2	6993.6	6962.6	6928.9	6892.7
37.5°	7451.8	7293.9	7084.2	6954.8	6833.1	6768.4	6740.0	6716.7	6662.3	6602.8	6561.4
40°	7076.4	6791.7	6675.3	6548.4	6512.2	6483.7	6442.3	6385.4	6310.3	6300.0	6281.8
42.5°	6574.3	6369.8	6268.9	6243.0	6199.0	6149.8	6113.6	6051.5	6020.4	6041.1	6056.7
45°	6098.1	5994.5	5960.9	5929.8	5847.0	5777.1	5753.8	5733.1	5759.0	5872.9	5601.1
47.5°	5712.4	5671.0	5629.6	5577.8	5500.2	5448.4	5471.7	5492.4	5515.7	4679.7	4270.7
50°	5378.5	5321.6	5256.9	5199.9	5153.3	5148.2	5269.8	4904.9	4107.7	4086.9	3672.8
52.5°	5013.6	4928.1	4889.3	4855.7	4876.4	4954.0	4099.9	3804.8	3649.5	3170.7	2958.4
55°	4620.1	4545.1	4545.1	4576.1	4464.8	3618.5	3574.5	3090.4	2798.0	2715.1	2681.5
57.5°	4226.7	4219.0	4263.0	3898.0	3284.6	3150.0	2647.8	2541.7	2495.1	2484.8	2430.4
60°	3866.9	3939.4	3297.5	3033.5	2637.5	2378.7	2306.2	2293.2	2244.1	2225.9	2176.8
62.5°	3579.6	2968.8	2764.3	2257.0	2125.0	2091.4	2052.5	2034.4	1990.4	1757.5	515.1
65°	2585.7	2443.4	1982.6	1897.2	1886.9	1837.7	1822.2	1638.4	385.7	258.8	220.0
67.5°	1951.6	1731.6	1672.1	1656.5	1607.3	1509.0	447.8	256.2	220.0	191.5	168.2
70°	1498.6	1459.8	1415.8	1379.6	406.4	253.7	220.0	186.4	160.5	142.4	129.4
72.5°	1226.9	1201.0	698.8	266.6	217.4	183.8	163.1	142.4	124.2	113.9	103.5
75°	960.3	266.6	220.0	183.8	157.9	134.6	119.1	106.1	95.8	88.0	80.2
77.5°	217.4	176.0	150.1	126.8	113.9	100.9	90.6	77.6	69.9	62.1	51.8
80°	134.6	116.5	98.4	90.6	77.6	64.7	56.9	51.8	41.4	38.8	33.6
82.5°	88.0	69.9	62.1	51.8	41.4	38.8	33.6	25.9	23.3	20.7	18.1
85°	38.8	33.6	28.5	23.3	18.1	15.5	12.9	10.4	10.4	10.4	10.4
87.5°	12.9	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	5.2	5.2
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3
2.5°	8717.4	8764.0	8808.0	8795.1	8748.5	8676.0	8655.3	8626.8	8647.6	8691.6	8709.7
5°	8779.6	8753.7	8846.9	8984.0	9206.6	9227.3	9382.6	9418.9	9543.1	9620.8	9618.2
7.5°	8867.6	9235.1	9387.8	9553.5	9628.5	9610.4	9633.7	9615.6	9587.1	9574.2	9558.6
10°	9315.3	9594.9	9651.8	9651.8	9535.3	9377.5	9310.2	9193.7	8960.7	8965.9	8927.1
12.5°	9576.8	9675.1	9540.5	9426.6	8958.2	8777.0	8580.3	8487.1	8432.7	8349.9	8381.0
15°	9439.6	9299.8	9219.6	8852.0	8564.7	8238.6	8243.8	8186.8	8127.3	8132.5	8093.7
17.5°	9237.7	9126.4	8557.0	8303.3	8163.5	8036.7	8013.4	7938.4	7899.5	7886.6	7884.0
20°	8960.7	8559.6	8135.1	8072.9	7904.7	7759.8	7736.5	7759.8	7878.8	7666.6	6947.0
22.5°	8637.2	8060.0	7935.8	7759.8	7645.9	7588.9	7731.3	7084.2	6105.8	6224.9	6098.1
25°	8088.5	7837.4	7625.2	7490.6	7477.6	7128.2	5940.2	5815.9	5187.0	4850.5	4472.6
27.5°	7687.3	7578.6	7356.0	7332.7	7164.5	5828.9	5210.3	4527.0	4275.9	4237.1	4154.2
30°	7444.0	7288.7	7154.1	6566.6	5717.6	4692.6	4180.1	4084.4	4040.4	3993.8	3921.3
32.5°	7151.5	7004.0	7068.7	5520.9	4558.0	4040.4	3936.8	3866.9	3786.7	3755.6	3494.2
35°	6853.9	6786.6	5523.5	4640.8	3918.7	3794.5	3716.8	3644.3	2898.9	701.4	238.1
37.5°	6535.5	6520.0	4964.4	3851.4	3670.2	3553.8	3333.7	688.5	163.1	111.3	82.8
40°	6287.0	4967.0	3923.9	3610.7	3463.2	3279.4	460.7	113.9	72.5	44.0	28.5
42.5°	6121.4	4467.4	3512.3	3388.1	3067.2	339.1	116.5	49.2	28.5	23.3	18.1
45°	4718.5	3527.9	3282.0	3152.6	388.2	116.5	67.3	23.3	18.1	15.5	10.4
47.5°	4353.5	3204.3	3059.4	688.5	129.4	62.1	46.6	15.5	10.4	10.4	10.4
50°	3297.5	2961.0	2435.6	168.2	82.8	44.0	33.6	10.4	10.4	10.4	7.8
52.5°	2891.1	2733.3	261.4	111.3	64.7	33.6	20.7	7.8	7.8	7.8	7.8
55°	2642.7	1734.2	155.3	85.4	54.4	31.1	12.9	7.8	7.8	7.8	5.2
57.5°	2417.5	232.9	113.9	72.5	49.2	28.5	7.8	7.8	7.8	7.8	5.2
60°	2049.9	168.2	93.2	64.7	46.6	25.9	7.8	7.8	7.8	7.8	7.8
62.5°	266.6	132.0	80.2	56.9	33.6	20.7	5.2	7.8	7.8	7.8	7.8
65°	194.1	103.5	72.5	38.8	20.7	7.8	5.2	7.8	7.8	7.8	7.8
67.5°	150.1	85.4	54.4	33.6	18.1	5.2	5.2	7.8	7.8	7.8	7.8
70°	119.1	72.5	44.0	28.5	15.5	5.2	5.2	7.8	7.8	7.8	7.8
72.5°	93.2	51.8	31.1	15.5	10.4	5.2	5.2	7.8	7.8	7.8	7.8
75°	69.9	41.4	23.3	12.9	5.2	5.2	5.2	7.8	7.8	7.8	7.8
77.5°	46.6	25.9	18.1	10.4	10.4	10.4	12.9	12.9	7.8	7.8	7.8
80°	31.1	18.1	12.9	12.9	12.9	10.4	12.9	12.9	7.8	12.9	7.8
82.5°	15.5	12.9	12.9	10.4	10.4	7.8	10.4	10.4	10.4	10.4	7.8
85°	10.4	7.8	7.8	7.8	7.8	7.8	7.8	7.8	10.4	10.4	7.8
87.5°	5.2	5.2	5.2	5.2	7.8	7.8	7.8	7.8	10.4	10.4	7.8
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3
2.5°	8686.4	8694.1	8673.4	8784.7	8727.8	8733.0	8756.3	8696.7	8709.7	8668.3	8639.8
5°	9628.5	9644.1	9659.6	9664.8	9675.1	9688.1	9672.5	9664.8	9649.2	9597.5	9543.1
7.5°	9481.0	9462.9	9455.1	9465.5	9483.6	9491.3	9478.4	9496.5	9563.8	9592.3	9610.4
10°	8704.5	8621.7	8678.6	8670.8	8606.1	8823.6	8764.0	8797.7	8821.0	9059.1	9204.0
12.5°	8334.4	8386.1	8287.8	8238.6	8303.3	8347.3	8391.3	8298.1	8427.5	8368.0	8559.6
15°	8023.8	7992.7	7982.4	7984.9	7972.0	8034.1	8049.7	8070.4	8088.5	8168.7	8199.8
17.5°	7884.0	7935.8	7956.5	7972.0	7946.1	7917.6	7889.2	7847.8	7860.7	7840.0	7899.5
20°	6463.0	6289.6	6279.2	6380.2	6268.9	6331.0	6481.1	7485.4	7451.8	7842.6	7710.6
22.5°	5394.0	5231.0	5091.2	4969.6	5143.0	5215.5	5495.0	5810.8	6323.2	6243.0	6799.5
25°	4405.3	4345.8	4309.5	4291.4	4304.4	4299.2	4361.3	4508.8	4741.8	5290.5	5999.7
27.5°	4120.6	4092.1	4079.2	4037.8	4068.8	4058.5	4107.7	4138.7	4208.6	4263.0	4493.3
30°	3895.4	3861.8	3838.5	3794.5	3825.5	3828.1	3843.6	3923.9	3952.4	3998.9	4071.4
32.5°	1423.6	838.6	786.8	748.0	817.9	1066.4	1871.4	3271.6	3732.3	3768.6	3851.4
35°	139.8	116.5	103.5	103.5	106.1	116.5	155.3	409.0	748.0	2891.1	3618.5
37.5°	54.4	46.6	38.8	36.2	38.8	44.0	59.5	77.6	106.1	220.0	981.0
40°	23.3	20.7	18.1	18.1	18.1	18.1	20.7	25.9	38.8	72.5	113.9
42.5°	15.5	12.9	12.9	12.9	12.9	12.9	12.9	12.9	18.1	23.3	46.6
45°	10.4	7.8	7.8	7.8	7.8	7.8	7.8	7.8	10.4	12.9	20.7
47.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	10.4
50°	7.8	7.8	7.8	7.8	5.2	7.8	5.2	7.8	7.8	7.8	7.8
52.5°	7.8	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	7.8	7.8
55°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	7.8
57.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
60°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
62.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	7.8	7.8	5.2
65°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	7.8	5.2
67.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
70°	7.8	7.8	5.2	7.8	5.2	5.2	7.8	7.8	7.8	5.2	5.2
72.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	15.5	15.5	10.4
75°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	12.9	15.5	12.9
77.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	12.9	12.9	12.9
80°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	10.4	10.4	10.4
82.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	10.4	10.4	10.4
85°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
87.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3
2.5°	8590.6	8588.0	8642.4	8683.8	8668.3	8683.8	8701.9	8704.5	8709.7	8689.0	8681.2
5°	9439.6	9359.3	9204.0	9092.7	8963.3	8727.8	8611.3	8624.3	8626.8	8619.1	8629.4
7.5°	9602.6	9594.9	9540.5	9517.2	9429.2	9261.0	8991.8	8945.2	8831.3	8758.9	8699.3
10°	9193.7	9380.0	9429.2	9512.1	9563.8	9532.8	9305.0	9271.3	9198.9	9116.0	9134.2
12.5°	8751.1	8903.8	8911.6	9361.9	9462.9	9473.2	9385.2	9431.8	9442.2	9255.8	9147.1
15°	8207.5	8280.0	8432.7	8852.0	9157.5	9349.0	9405.9	9431.8	9305.0	9297.2	9253.2
17.5°	7969.4	8016.0	8085.9	8321.4	8784.7	9066.9	9307.6	9289.5	9338.6	9302.4	9191.1
20°	7669.2	7708.0	7832.2	7951.3	8179.1	8554.4	9004.7	9038.4	9103.1	9095.3	9126.4
22.5°	7664.0	7526.8	7547.5	7640.7	7878.8	8215.3	8694.1	8805.4	8846.9	8875.3	8909.0
25°	6079.9	7169.6	7368.9	7428.5	7583.8	7780.5	8344.7	8386.1	8463.8	8590.6	8683.8
27.5°	5267.2	6007.5	6804.7	7218.8	7317.2	7480.2	7816.7	7878.8	8142.8	8173.9	8318.8
30°	4156.8	4728.8	5919.5	6916.0	7079.0	7192.9	7431.0	7555.3	7669.2	7793.4	7946.1
32.5°	3910.9	4001.5	4661.6	5722.8	6991.0	6905.6	7081.6	7156.7	7280.9	7389.6	7500.9
35°	3685.8	3747.9	3887.6	4687.4	5694.3	6670.1	6789.1	6838.3	6908.2	6991.0	7071.3
37.5°	3450.2	3543.4	3639.2	3854.0	5267.2	6483.7	6481.1	6538.1	6579.5	6649.4	6716.7
40°	626.4	3253.5	3408.8	3548.6	4084.4	5171.4	6191.2	6217.1	6245.6	6289.6	6359.5
42.5°	100.9	543.5	3194.0	3328.6	3481.3	4630.5	6059.2	5953.1	5935.0	5966.1	6028.2
45°	51.8	132.0	641.9	3108.6	3245.7	3693.5	4954.0	5769.3	5751.2	5691.7	5704.6
47.5°	38.8	82.8	157.9	1074.1	3038.7	3170.7	4571.0	4521.8	4866.0	5526.0	5425.1
50°	33.6	56.9	93.2	220.0	2684.1	2919.6	3520.1	4112.8	4294.0	4317.3	5109.3
52.5°	31.1	38.8	67.3	142.4	564.3	2699.6	2862.7	3069.7	3375.2	4030.0	4014.5
55°	28.5	36.2	56.9	95.8	196.7	2433.0	2601.3	2640.1	2704.8	3018.0	3432.1
57.5°	15.5	33.6	54.4	82.8	147.5	445.2	2360.5	2391.6	2443.4	2456.3	2603.8
60°	7.8	31.1	49.2	72.5	108.7	207.1	2122.4	2158.7	2189.7	2194.9	2241.5
62.5°	5.2	28.5	41.4	67.3	90.6	147.5	502.1	1025.0	1949.0	1949.0	2003.4
65°	5.2	20.7	25.9	44.0	82.8	121.7	212.2	245.9	478.8	1177.7	1757.5
67.5°	5.2	7.8	23.3	36.2	62.1	93.2	155.3	181.2	217.4	248.5	460.7
70°	5.2	5.2	20.7	23.3	38.8	69.9	111.3	126.8	147.5	168.2	194.1
72.5°	5.2	5.2	18.1	18.1	25.9	46.6	85.4	93.2	106.1	119.1	137.2
75°	12.9	10.4	15.5	15.5	18.1	36.2	64.7	72.5	77.6	88.0	100.9
77.5°	12.9	12.9	12.9	12.9	12.9	23.3	41.4	46.6	54.4	59.5	69.9
80°	10.4	10.4	10.4	12.9	12.9	15.5	25.9	28.5	31.1	38.8	41.4
82.5°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	15.5	18.1	23.3
85°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	10.4	10.4	10.4	10.4
87.5°	7.8	7.8	7.8	5.2	5.2	7.8	7.8	7.8	7.8	7.8	7.8
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3	8624.3
2.5°	8678.6	8663.1	8650.1	8657.9	8634.6	8624.3	8632.0	8634.6	8639.8	8652.7	8655.3
5°	8655.3	8650.1	8673.4	8686.4	8681.2	8686.4	8686.4	8676.0	8660.5	8670.8	8647.6
7.5°	8639.8	8606.1	8580.3	8585.4	8559.6	8590.6	8619.1	8660.5	8673.4	8673.4	8647.6
10°	8906.4	8870.1	8725.2	8626.8	8562.1	8505.2	8639.8	8502.6	8567.3	8321.4	8603.6
12.5°	9126.4	9175.6	9110.9	8841.7	8795.1	8624.3	8722.6	8554.4	8505.2	8223.1	8313.7
15°	9214.4	9121.2	9100.5	9025.4	8924.5	8875.3	8611.3	8582.8	8502.6	8533.7	8414.6
17.5°	9136.7	9183.3	9121.2	9072.0	8968.5	8852.0	8694.1	8554.4	8443.1	8194.6	8404.3
20°	9061.7	9123.8	8937.4	8968.5	8978.9	8844.3	8761.4	8645.0	8505.2	8272.2	8091.1
22.5°	8937.4	8893.4	8909.0	8862.4	8823.6	8841.7	8727.8	8647.6	8412.0	8305.9	8060.0
25°	8735.6	8720.0	8761.4	8756.3	8663.1	8632.0	8575.1	8489.7	8396.5	8225.7	8023.8
27.5°	8406.8	8487.1	8559.6	8593.2	8544.0	8461.2	8430.1	8381.0	8316.2	8142.8	7992.7
30°	8060.0	8150.6	8233.4	8305.9	8349.9	8313.7	8285.2	8256.7	8158.4	8044.5	7876.2
32.5°	7664.0	7783.1	7896.9	7984.9	8080.7	8109.2	8088.5	8065.2	7982.4	7878.8	7744.2
35°	7205.9	7368.9	7534.6	7692.5	7733.9	7801.2	7868.5	7829.6	7785.6	7682.1	7557.9
37.5°	6817.6	6934.1	7053.2	7252.5	7397.4	7482.8	7601.9	7617.4	7542.3	7493.2	7330.1
40°	6416.4	6522.5	6696.0	6812.4	7011.7	7110.1	7236.9	7293.9	7275.7	7247.3	7104.9
42.5°	6100.7	6152.4	6266.3	6369.8	6566.6	6768.4	6879.7	6941.9	7006.6	6983.3	6910.8
45°	5764.2	5810.8	5849.6	5940.2	6131.7	6310.3	6447.5	6540.7	6657.1	6711.5	6623.5
47.5°	5430.3	5443.2	5489.8	5564.9	5678.8	5815.9	6046.3	6186.1	6294.8	6400.9	6344.0
50°	5174.0	5127.4	5135.2	5181.8	5275.0	5409.6	5575.2	5771.9	5896.2	6025.6	6038.5
52.5°	4521.8	4899.7	4809.1	4835.0	4884.1	4948.9	5122.3	5316.4	5469.1	5580.4	5691.7
55°	3794.5	3869.5	4596.8	4493.3	4524.4	4581.3	4661.6	4855.7	5003.2	5158.5	5313.8
57.5°	2942.9	3502.0	3530.5	4203.4	4187.9	4193.1	4260.4	4371.7	4519.2	4713.3	4845.3
60°	2288.1	2523.6	2981.7	3214.7	3804.8	3825.5	3864.4	3929.1	4055.9	4239.7	4449.3
62.5°	2018.9	2049.9	2213.0	2562.4	2945.5	3408.8	3491.6	3502.0	3558.9	3742.7	3986.0
65°	1773.0	1793.7	1842.9	1879.1	2200.1	2647.8	3046.4	3111.2	3147.4	3256.1	3463.2
67.5°	1221.7	1545.2	1589.2	1615.1	1646.2	1853.2	2347.6	2676.3	2717.7	2813.5	2994.7
70°	235.5	489.2	1338.2	1366.6	1382.2	1428.7	1509.0	2031.8	2306.2	2396.8	2479.6
72.5°	160.5	188.9	227.8	538.4	1138.9	1164.7	1182.9	1250.2	1713.5	1977.5	2021.5
75°	116.5	129.4	152.7	188.9	232.9	758.4	939.6	973.2	1006.9	1389.9	1612.5
77.5°	82.8	93.2	103.5	121.7	142.4	183.8	264.0	727.3	761.0	779.1	1100.0
80°	46.6	56.9	69.9	80.2	90.6	103.5	134.6	168.2	375.3	548.7	577.2
82.5°	25.9	31.1	36.2	44.0	49.2	62.1	75.1	90.6	119.1	176.0	372.7
85°	12.9	12.9	12.9	18.1	20.7	28.5	33.6	38.8	54.4	75.1	103.5
87.5°	7.8	7.8	10.4	10.4	10.4	12.9	12.9	12.9	15.5	23.3	33.6
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	8624.3	8624.3	8624.3	8624.3	8624.3
2.5°	8657.9	8650.1	8650.1	8681.2	8673.4
5°	8642.4	8634.6	8632.0	8665.7	8650.1
7.5°	8629.4	8601.0	8593.2	8624.3	8611.3
10°	8577.7	8557.0	8569.9	8559.6	8554.4
12.5°	8489.7	8476.7	8422.4	8427.5	8471.5
15°	8331.8	8383.5	8290.4	8373.2	8391.3
17.5°	8041.9	8158.4	8249.0	8298.1	8305.9
20°	8171.3	8210.1	8163.5	8166.1	8197.2
22.5°	8003.1	8021.2	8034.1	8018.6	8085.9
25°	7733.9	7664.0	7814.1	7845.2	7953.9
27.5°	7651.1	7594.1	7664.0	7658.8	7749.4
30°	7583.8	7400.0	7431.0	7480.2	7591.5
32.5°	7488.0	7198.1	7167.0	7275.7	7400.0
35°	7319.7	7045.4	6972.9	7042.8	7229.2
37.5°	7177.4	6833.1	6688.2	6781.4	7024.7
40°	6965.2	6667.5	6442.3	6525.1	6812.4
42.5°	6711.5	6525.1	6178.3	6235.2	6564.0
45°	6455.3	6289.6	5922.1	5950.5	6341.4
47.5°	6193.8	6041.1	5655.5	5660.6	6056.7
50°	5937.6	5735.7	5417.3	5326.7	5753.8
52.5°	5603.7	5417.3	5176.6	5029.1	5466.5
55°	5287.9	5078.3	4902.3	4674.5	5140.4
57.5°	4979.9	4747.0	4627.9	4335.4	4770.3
60°	4558.0	4446.7	4270.7	3991.2	4436.4
62.5°	4125.8	4089.5	3910.9	3621.0	4024.8
65°	3621.0	3706.5	3522.7	3274.2	3597.8
67.5°	3144.8	3297.5	3095.6	2942.9	3186.2
70°	2637.5	2813.5	2699.6	2645.3	2748.8
72.5°	2137.9	2308.8	2319.1	2280.3	2314.0
75°	1651.3	1840.3	1943.8	1884.3	1892.1
77.5°	1252.7	1343.3	1457.2	1503.8	1493.5
80°	773.9	931.8	1025.0	1120.7	1087.1
82.5°	390.8	522.8	636.7	740.3	691.1
85°	163.1	209.7	292.5	385.7	370.1
87.5°	49.2	82.8	88.0	124.2	116.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)