

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-L930-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-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

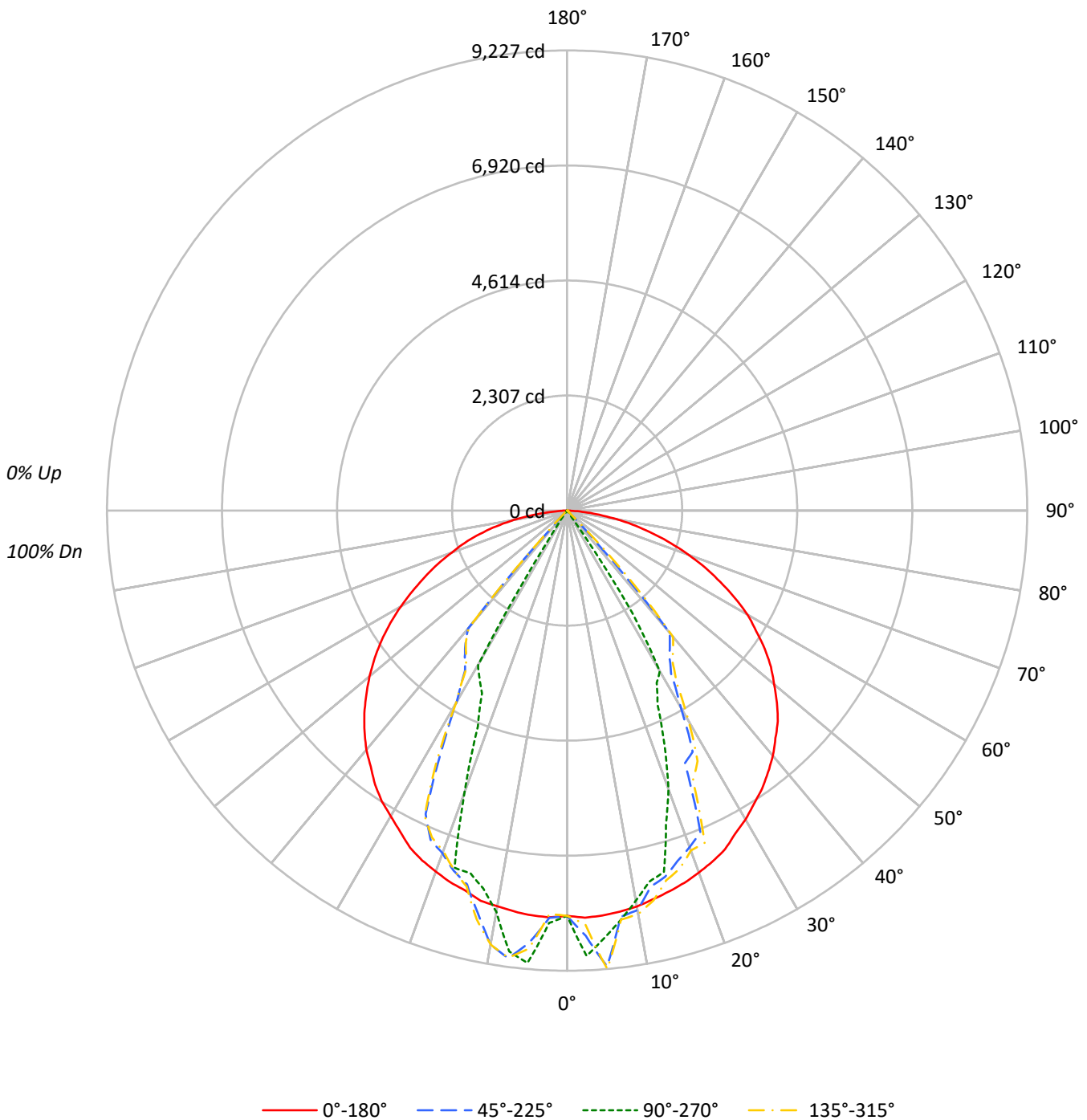
Lumens per Lamp: N/A
Luminaire Lumens: 11553.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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



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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°	32829	32829	32829	32829
5°	33008	33764	32998	35756
10°	32974	30553	32954	31435
15°	32931	28517	32850	28592
20°	33018	22462	32924	22739
25°	33165	16255	33004	15340
30°	33070	14259	32720	13708
35°	33230	314	32742	381
40°	33414	69	32614	69
45°	33612	41	32350	30
50°	33451	32	31916	32
55°	33370	22	31320	22
60°	32885	24	30314	24
65°	31355	39	29121	26
70°	29333	42	27925	42
75°	26294	47	26726	47
80°	21892	54	23142	54
85°	13716	64	14003	64



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	815.2	7.1
10°-20°	2223.5	19.2
20°-30°	2829.3	24.5
30°-40°	2390.0	20.7
40°-50°	1562.5	13.5
50°-60°	984.5	8.5
60°-70°	524.1	4.5
70°-80°	191.1	1.7
80°-90°	32.9	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°	5867.9	50.8
0°-40°	8257.9	71.5
0°-60°	10805.0	93.5
0°-90°	11553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11553.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8125	8125	8125	8125	8125	
5°	8149	8598	8147	9105	8149	775
15°	7906	7503	7886	7523	7906	2235
25°	7493	4284	7457	4043	7493	3446
35°	6811	80	6711	98	6811	4261
45°	5974	10	5750	7	5974	4594
55°	4843	5	4545	5	4843	4315
65°	3390	7	3148	5	3390	3357
75°	1782	7	1812	7	1782	1892
85°	349	7	356	7	349	441
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9
2.5°	8171.3	8176.1	8178.6	8183.5	8190.8	8193.2	8198.1	8193.2	8193.2	8193.2	8193.2
5°	8149.3	8159.1	8166.4	8176.1	8193.2	8195.6	8215.2	8217.6	8227.3	8246.9	8261.5
7.5°	8112.7	8122.5	8137.1	8161.5	8185.9	8212.7	8246.9	8283.4	8334.6	8383.4	8444.4
10°	8059.1	8071.3	8088.4	8110.3	8229.8	8246.9	8322.4	8427.3	8456.6	8610.2	8724.8
12.5°	7981.1	8022.5	8066.4	8085.9	8200.5	8381.0	8634.6	8583.4	8527.3	9029.6	9022.3
15°	7905.5	7961.6	7939.6	8098.1	8203.0	8517.5	8410.2	8639.4	9058.9	8956.4	8961.3
17.5°	7825.0	7837.2	7959.1	8090.8	8278.6	8439.5	8571.2	8885.7	8968.6	8976.0	8885.7
20°	7722.6	7781.1	7959.1	8078.6	8395.6	8471.2	8756.5	8917.4	8883.3	8800.4	8646.8
22.5°	7617.7	7795.7	7976.2	8144.4	8366.3	8568.7	8710.2	8785.8	8607.7	8281.0	8105.4
25°	7493.4	7598.2	7834.8	8081.0	8359.0	8476.1	8559.0	8437.1	8205.4	7912.8	7617.7
27.5°	7300.7	7469.0	7771.4	8049.3	8300.5	8441.9	8307.8	8015.2	7642.1	7449.5	7315.4
30°	7152.0	7371.5	7620.2	7888.4	8149.3	8232.2	7890.8	7556.8	7300.7	7108.1	7078.8
32.5°	6971.5	7283.7	7520.2	7776.2	7995.7	7886.0	7554.3	7122.7	6910.6	6837.4	6866.7
35°	6810.6	7047.1	7356.8	7608.0	7766.5	7520.2	6995.9	6727.7	6625.3	6666.7	6613.1
37.5°	6618.0	6930.1	7215.4	7432.4	7378.8	7008.1	6564.3	6393.6	6405.8	6371.7	6269.3
40°	6418.0	6715.5	7013.0	7217.8	7030.1	6464.3	6169.3	6132.7	6140.0	6030.3	5884.0
42.5°	6183.9	6454.6	6752.1	6937.4	6532.6	6091.3	5891.3	5896.2	5832.8	5679.2	5601.1
45°	5974.2	6222.9	6532.6	6549.7	6052.2	5684.0	5625.5	5562.1	5420.7	5369.5	5311.0
47.5°	5706.0	5981.5	6237.6	6144.9	5581.6	5352.4	5308.5	5169.5	5098.8	5059.8	5011.0
50°	5420.7	5698.7	5932.8	5669.4	5137.8	5084.2	4940.3	4830.6	4781.8	4740.4	4696.5
52.5°	5150.0	5379.2	5618.2	5164.6	4796.4	4745.2	4581.9	4518.5	4469.7	4423.4	4413.6
55°	4842.8	5045.2	5208.5	4684.3	4469.7	4350.2	4233.2	4189.3	4142.9	4121.0	4157.6
57.5°	4494.1	4723.3	4698.9	4211.2	4116.1	3943.0	3899.1	3869.8	3835.7	3850.3	3545.5
60°	4179.5	4355.1	4235.6	3865.0	3704.0	3587.0	3548.0	3528.4	3548.0	3250.5	2857.9
62.5°	3791.8	3989.3	3747.9	3460.2	3289.5	3233.4	3199.3	3226.1	2940.8	2614.0	2518.9
65°	3389.5	3604.0	3248.0	3026.1	2918.8	2870.1	2867.6	2640.8	2360.4	2233.6	2233.6
67.5°	3001.7	3223.6	2765.2	2579.9	2538.4	2543.3	2401.9	2058.1	1980.0	1894.7	1648.4
70°	2589.6	2784.7	2284.8	2172.7	2148.3	2131.2	1787.4	1694.7	1602.1	1375.3	1355.8
72.5°	2180.0	2275.1	1836.2	1809.3	1804.5	1499.7	1431.4	1272.9	1165.6	1138.8	1126.6
75°	1782.5	1753.2	1450.9	1475.3	1243.6	1136.3	1026.6	933.9	919.3	909.5	226.8
77.5°	1407.0	1260.7	1143.6	994.9	890.0	755.9	734.0	719.3	473.1	170.7	139.0
80°	1024.2	816.9	760.8	646.2	551.1	529.1	541.3	165.8	131.7	109.7	95.1
82.5°	651.1	521.8	426.7	373.1	363.3	158.5	117.0	95.1	82.9	70.7	58.5
85°	348.7	231.7	214.6	180.4	107.3	73.2	61.0	46.3	39.0	31.7	29.3
87.5°	109.7	92.7	75.6	61.0	36.6	24.4	19.5	17.1	14.6	12.2	12.2
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):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9
2.5°	8188.3	8193.2	8190.8	8198.1	8198.1	8207.8	8215.2	8222.5	8237.1	8244.4	8300.5
5°	8293.2	8305.4	8342.0	8376.1	8417.5	8429.7	8500.5	8517.5	8600.4	8610.2	8883.3
7.5°	8527.3	8573.6	8661.4	8749.2	8837.0	8893.0	8990.6	9051.5	9117.4	9175.9	9392.9
10°	8810.1	8888.2	8973.5	9061.3	9112.5	9219.8	9278.3	9288.1	9271.0	9175.9	8824.8
12.5°	9088.1	9166.2	9129.6	9146.6	9207.6	9017.4	9044.2	8907.7	9002.8	8532.2	8183.5
15°	9049.1	9044.2	8954.0	8661.4	8710.2	8346.8	8200.5	8088.4	8178.6	8129.8	8076.2
17.5°	8932.1	8710.2	8554.1	8203.0	8054.2	7951.8	7954.2	7956.7	7912.8	7959.1	7822.6
20°	8437.1	8188.3	7956.7	7832.3	7788.4	7715.3	7751.9	7715.3	7717.7	7732.3	7522.6
22.5°	7778.7	7703.1	7569.0	7608.0	7593.4	7659.2	7610.4	7534.8	7559.2	7449.5	7291.0
25°	7512.9	7425.1	7420.2	7434.9	7412.9	7383.6	7339.8	7225.1	7217.8	7183.7	7110.5
27.5°	7244.7	7249.5	7264.2	7220.3	7142.2	7083.7	7017.9	6961.8	6983.7	6944.7	6844.7
30°	7059.3	7056.9	6969.1	6930.1	6786.2	6788.7	6771.6	6737.5	6715.5	6717.9	6654.5
32.5°	6796.0	6720.4	6620.4	6571.6	6559.4	6515.6	6481.4	6488.7	6505.8	6444.8	6510.7
35°	6525.3	6369.2	6354.6	6313.2	6274.1	6244.9	6257.1	6208.3	6205.9	6198.6	5662.1
37.5°	6162.0	6086.4	6079.1	6035.2	6008.4	6001.0	5954.7	5962.0	5984.0	6023.0	4828.1
40°	5862.0	5793.8	5776.7	5774.3	5715.7	5710.9	5723.1	5769.4	5801.1	5557.2	4601.4
42.5°	5540.2	5545.0	5491.4	5457.3	5464.6	5486.5	5545.0	5384.1	4664.8	4445.3	4206.3
45°	5264.6	5240.2	5211.0	5201.2	5264.6	5220.7	4577.0	4223.4	4138.1	4128.3	3457.7
47.5°	4976.9	4969.6	4957.4	4964.7	4603.8	4103.9	3957.6	3911.3	3925.9	3916.2	2970.0
50°	4686.7	4696.5	4696.5	4101.5	3765.0	3682.1	3694.3	3735.7	3477.2	3245.6	2767.6
52.5°	4435.6	4360.0	3735.7	3521.1	3445.5	3482.1	3394.3	3070.0	2835.9	2699.4	2560.4
55°	3969.8	3413.8	3274.8	3240.7	3267.5	2943.2	2743.3	2533.6	2472.6	2458.0	2377.5
57.5°	3123.7	3011.5	3023.7	2887.1	2577.4	2394.6	2314.1	2284.8	2258.0	2238.5	195.1
60°	2762.8	2794.5	2557.9	2265.3	2141.0	2116.6	2097.1	2070.2	2065.4	2031.2	124.4
62.5°	2528.7	2223.9	2019.0	1945.9	1916.6	1909.3	1872.7	1860.5	1580.1	217.0	92.7
65°	1906.9	1782.5	1743.5	1726.4	1694.7	1694.7	1407.0	221.9	180.4	156.1	82.9
67.5°	1555.7	1546.0	1526.5	1504.5	1024.2	214.6	187.8	163.4	141.4	124.4	73.2
70°	1316.8	1311.9	1194.8	219.5	182.9	160.9	141.4	126.8	117.0	104.9	65.8
72.5°	1080.2	219.5	185.3	160.9	139.0	126.8	114.6	102.4	92.7	85.3	53.6
75°	168.3	148.7	131.7	119.5	109.7	97.5	87.8	80.5	78.0	68.3	36.6
77.5°	121.9	104.9	95.1	85.3	75.6	68.3	58.5	51.2	46.3	39.0	26.8
80°	85.3	75.6	68.3	56.1	48.8	41.5	36.6	31.7	29.3	24.4	12.2
82.5°	48.8	41.5	36.6	29.3	26.8	21.9	19.5	17.1	17.1	12.2	12.2
85°	21.9	21.9	17.1	14.6	12.2	12.2	12.2	9.8	9.8	7.3	7.3
87.5°	9.8	9.8	9.8	9.8	9.8	7.3	7.3	7.3	7.3	7.3	4.9
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):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9
2.5°	8378.5	8410.2	8471.2	8534.6	8463.9	8717.5	8698.0	8783.3	8829.6	8851.6	8902.8
5°	9124.7	9266.1	9312.5	9173.5	9093.0	9010.1	8822.3	8680.9	8698.0	8651.6	8483.4
7.5°	9110.1	8807.7	8400.5	8215.2	8200.5	8178.6	8237.1	8271.2	8276.1	8273.7	8268.8
10°	8339.5	8183.5	8156.6	8132.2	8142.0	8051.8	8010.3	7893.3	7956.7	7922.5	7934.7
12.5°	8105.4	8068.8	7925.0	7725.0	7844.5	7754.3	7703.1	7737.2	7698.2	7661.6	7649.4
15°	7966.4	7729.9	7649.4	7600.7	7566.5	7547.0	7564.1	7525.1	7512.9	7505.6	7522.6
17.5°	7678.7	7583.6	7495.8	7366.6	7369.0	7361.7	7410.5	7483.6	7488.5	7113.0	6774.0
20°	7451.9	7373.9	7261.7	7181.3	7291.0	7095.9	6342.4	5984.0	5927.9	5927.9	5937.6
22.5°	7271.5	7098.3	7105.7	6978.9	5952.3	5742.6	5747.4	5769.4	5669.4	5328.0	5291.4
25°	7025.2	6998.4	6464.3	5586.5	5593.8	5430.4	5179.3	4825.7	4442.9	4442.9	4379.5
27.5°	6839.9	6271.7	5491.4	5454.8	4906.2	4559.9	4345.3	4021.0	3977.1	3935.7	3940.5
30°	6681.4	5306.1	5325.6	4559.9	4155.1	3867.4	3850.3	3796.7	3769.9	3762.5	3735.7
32.5°	5281.7	5167.1	4457.5	3882.0	3723.5	3677.2	3655.2	3594.3	3591.8	3545.5	3223.6
35°	4952.5	4535.5	3730.8	3574.8	3528.4	3484.6	3448.0	2314.1	273.1	109.7	95.1
37.5°	4577.0	3789.4	3450.4	3379.7	3335.8	2465.3	246.3	85.3	61.0	43.9	39.0
40°	3879.6	3384.6	3277.3	3199.3	1319.2	85.3	53.6	41.5	24.4	21.9	19.5
42.5°	3272.4	3189.5	3074.9	936.4	97.5	41.5	26.8	19.5	17.1	17.1	14.6
45°	3062.7	2989.5	1238.7	92.7	61.0	19.5	17.1	17.1	14.6	9.8	9.8
47.5°	2867.6	2523.8	112.2	58.5	39.0	17.1	14.6	9.8	9.8	9.8	7.3
50°	2660.4	139.0	78.0	43.9	24.4	9.8	9.8	9.8	9.8	7.3	7.3
52.5°	497.4	97.5	63.4	39.0	12.2	9.8	9.8	9.8	7.3	7.3	7.3
55°	117.0	78.0	58.5	34.1	9.8	9.8	9.8	7.3	7.3	7.3	4.9
57.5°	87.8	58.5	46.3	31.7	9.8	7.3	7.3	7.3	7.3	7.3	4.9
60°	73.2	41.5	36.6	29.3	7.3	7.3	7.3	7.3	7.3	7.3	4.9
62.5°	51.2	34.1	26.8	21.9	7.3	7.3	7.3	7.3	7.3	7.3	7.3
65°	41.5	26.8	21.9	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
67.5°	36.6	21.9	14.6	4.9	7.3	7.3	7.3	7.3	7.3	7.3	7.3
70°	29.3	7.3	7.3	4.9	7.3	7.3	7.3	7.3	7.3	7.3	7.3
72.5°	24.4	7.3	4.9	4.9	7.3	7.3	7.3	7.3	7.3	7.3	7.3
75°	24.4	12.2	4.9	4.9	7.3	7.3	9.8	9.8	7.3	7.3	7.3
77.5°	17.1	12.2	4.9	4.9	7.3	7.3	9.8	9.8	7.3	7.3	7.3
80°	9.8	12.2	4.9	7.3	7.3	14.6	17.1	9.8	7.3	7.3	7.3
82.5°	9.8	12.2	14.6	14.6	7.3	12.2	14.6	12.2	9.8	7.3	7.3
85°	9.8	7.3	9.8	12.2	7.3	12.2	12.2	9.8	9.8	7.3	7.3
87.5°	4.9	7.3	7.3	9.8	9.8	9.8	12.2	9.8	9.8	9.8	7.3
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9
2.5°	8927.2	8936.9	8783.3	8729.7	8776.0	8766.2	8724.8	8571.2	8554.1	8451.7	8302.9
5°	8532.2	8598.0	8517.5	8656.5	8590.7	8656.5	8856.5	8949.1	9100.3	9193.0	9227.1
7.5°	8256.6	8271.2	8271.2	8283.4	8295.6	8298.1	8283.4	8273.7	8232.2	8181.0	8273.7
10°	7922.5	7939.6	7968.9	7964.0	7961.6	8012.8	8025.0	8129.8	8124.9	8144.4	8215.2
12.5°	7749.4	7617.7	7737.2	7705.5	7749.4	7681.1	7807.9	7786.0	7793.3	7851.8	8003.0
15°	7461.7	7503.1	7532.4	7532.4	7549.5	7534.8	7520.2	7620.2	7681.1	7683.6	7673.8
17.5°	6908.1	6593.6	6915.5	6832.6	7493.4	7510.4	7454.4	7408.0	7408.0	7444.6	7522.6
20°	5930.3	5937.6	5940.1	5971.8	6010.8	6008.4	6010.8	6971.5	7427.5	7322.7	7252.0
22.5°	5198.8	5108.6	5276.8	5264.6	5474.3	5706.0	5927.9	5905.9	5920.6	6598.5	7208.1
25°	4167.3	4284.4	4189.3	4230.7	4467.3	4742.8	4913.5	5359.7	5845.0	5810.8	5969.3
27.5°	3923.5	3891.8	3935.7	3935.7	3967.4	4003.9	4099.0	4350.2	4781.8	5235.4	5664.5
30°	3691.8	3718.6	3723.5	3767.4	3791.8	3816.2	3830.8	3925.9	4023.5	4338.0	4867.2
32.5°	2772.5	2431.1	3199.3	3406.5	3582.1	3623.5	3652.8	3691.8	3762.5	3808.9	4074.7
35°	80.5	80.5	85.3	97.5	124.4	838.8	3194.4	3521.1	3567.5	3626.0	3674.8
37.5°	39.0	29.3	34.1	36.6	43.9	61.0	87.8	273.1	3040.8	3438.2	3491.9
40°	17.1	17.1	17.1	17.1	19.5	24.4	36.6	61.0	92.7	2445.8	3299.2
42.5°	14.6	14.6	14.6	14.6	14.6	14.6	17.1	21.9	43.9	104.9	1731.3
45°	9.8	9.8	7.3	9.8	9.8	12.2	14.6	14.6	19.5	65.8	119.5
47.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	12.2	14.6	43.9	63.4
50°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	34.1	43.9
52.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	14.6	39.0
55°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	7.3	7.3	9.8	34.1
57.5°	4.9	4.9	4.9	4.9	4.9	7.3	4.9	4.9	7.3	7.3	31.7
60°	4.9	4.9	4.9	4.9	4.9	7.3	7.3	7.3	7.3	7.3	29.3
62.5°	7.3	7.3	4.9	7.3	4.9	4.9	7.3	7.3	7.3	7.3	19.5
65°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	4.9	7.3
67.5°	7.3	7.3	7.3	7.3	4.9	7.3	4.9	7.3	7.3	4.9	4.9
70°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	4.9	4.9	4.9	4.9
72.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	4.9	4.9	4.9	4.9
75°	7.3	7.3	7.3	7.3	7.3	7.3	9.8	9.8	4.9	4.9	4.9
77.5°	7.3	7.3	7.3	7.3	7.3	7.3	12.2	14.6	12.2	12.2	4.9
80°	7.3	7.3	7.3	7.3	7.3	7.3	12.2	12.2	12.2	12.2	17.1
82.5°	7.3	7.3	7.3	7.3	7.3	7.3	9.8	9.8	9.8	9.8	12.2
85°	7.3	7.3	7.3	7.3	7.3	7.3	9.8	9.8	9.8	7.3	9.8
87.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.8	7.3	7.3	7.3
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9
2.5°	8315.1	8232.2	8205.4	8149.3	8144.4	8149.3	8137.1	8120.1	8129.8	8112.7	8098.1
5°	9246.6	9024.7	8880.9	8688.2	8422.4	8363.9	8349.3	8266.4	8237.1	8227.3	8188.3
7.5°	8493.1	8897.9	9141.8	9224.7	8912.6	8839.4	8754.1	8685.8	8619.9	8495.6	8420.0
10°	8159.1	8178.6	8412.7	8685.8	9129.6	9190.5	9236.9	9088.1	9046.7	8729.7	8661.4
12.5°	8081.0	8083.5	8110.3	8276.1	8624.8	8663.8	8827.2	8915.0	9022.3	9083.2	9034.5
15°	7725.0	7922.5	8068.8	8083.5	8115.2	8183.5	8232.2	8537.0	8666.3	9012.5	8993.0
17.5°	7559.2	7622.6	7834.8	8007.9	7978.6	7954.2	7993.3	8034.7	8159.1	8505.3	8500.5
20°	7283.7	7486.1	7600.7	7781.1	7944.5	7951.8	7907.9	7883.5	7834.8	7890.8	7942.0
22.5°	7166.6	7198.3	7412.9	7539.7	7725.0	7790.9	7800.6	7803.1	7776.2	7747.0	7732.3
25°	7154.4	7054.5	7164.2	7322.7	7459.2	7530.0	7610.4	7637.2	7627.5	7627.5	7612.9
27.5°	5854.7	7022.8	6964.2	7069.1	7234.9	7283.7	7325.1	7408.0	7459.2	7495.8	7512.9
30°	5576.7	5786.5	6808.2	6822.8	6991.1	6986.2	7032.5	7100.8	7166.6	7252.0	7273.9
32.5°	4933.0	5447.5	6232.7	6576.5	6752.1	6769.2	6793.5	6813.0	6874.0	6969.1	7052.0
35°	3952.7	4962.3	5340.2	6459.5	6491.2	6525.3	6539.9	6586.3	6605.8	6644.8	6717.9
37.5°	3577.2	4101.5	5123.2	5586.5	6191.2	6220.5	6298.5	6318.0	6349.7	6381.4	6437.5
40°	3360.2	3504.1	4264.9	4989.1	5949.8	5969.3	5996.2	6044.9	6047.4	6083.9	6135.2
42.5°	3187.1	3279.7	3501.6	4764.7	5779.1	5776.7	5713.3	5745.0	5759.6	5798.6	5869.4
45°	2545.7	3077.3	3218.8	3891.8	4601.4	4933.0	5569.4	5464.6	5462.1	5476.8	5552.4
47.5°	129.2	2894.4	2994.4	3211.4	4345.3	4357.5	4440.4	5137.8	5245.1	5211.0	5218.3
50°	87.8	200.0	2789.6	2889.6	3745.5	4047.8	4108.8	4140.5	4542.8	4991.5	4918.4
52.5°	68.3	114.6	1709.4	2682.3	3043.2	3265.1	3657.7	3882.0	3906.4	4086.9	4698.9
55°	61.0	87.8	185.3	2475.0	2587.2	2636.0	2865.2	3257.8	3574.8	3669.9	3677.2
57.5°	53.6	80.5	126.8	1119.3	2353.1	2362.9	2401.9	2538.4	2823.7	3084.6	3379.7
60°	48.8	70.7	100.0	192.6	2138.5	2162.9	2170.2	2206.8	2240.9	2418.9	2757.9
62.5°	29.3	56.1	87.8	139.0	1692.3	1943.4	1941.0	1965.4	1997.1	2016.6	2084.9
65°	24.4	43.9	75.6	117.0	207.3	258.5	1570.4	1745.9	1765.4	1792.3	1804.5
67.5°	21.9	39.0	56.1	92.7	156.1	178.0	204.8	253.6	1385.0	1560.6	1585.0
70°	19.5	26.8	46.3	78.0	126.8	136.6	153.6	175.6	207.3	256.0	1253.4
72.5°	12.2	19.5	31.7	56.1	97.5	109.7	119.5	134.1	148.7	178.0	204.8
75°	4.9	14.6	26.8	41.5	75.6	82.9	90.2	100.0	112.2	131.7	146.3
77.5°	4.9	12.2	21.9	29.3	48.8	56.1	65.8	73.2	82.9	92.7	107.3
80°	17.1	9.8	14.6	21.9	34.1	36.6	41.5	46.3	53.6	61.0	70.7
82.5°	12.2	14.6	17.1	14.6	17.1	21.9	24.4	29.3	31.7	36.6	39.0
85°	9.8	9.8	12.2	12.2	12.2	12.2	12.2	12.2	14.6	17.1	21.9
87.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.8	9.8
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9
2.5°	8098.1	8093.2	8078.6	8078.6	8076.2	8085.9	8093.2	8100.5	8098.1	8112.7	8098.1
5°	8159.1	8146.9	8124.9	8105.4	8098.1	8103.0	8095.7	8103.0	8093.2	8105.4	8083.5
7.5°	8327.3	8285.9	8200.5	8166.4	8122.5	8120.1	8098.1	8093.2	8078.6	8078.6	8051.8
10°	8624.8	8424.9	8400.5	8298.1	8261.5	8083.5	8122.5	8056.7	8049.3	8017.6	8005.4
12.5°	8868.7	8712.6	8666.3	8576.0	8473.6	8112.7	8193.2	8051.8	8044.5	7981.1	7915.2
15°	8873.5	8963.8	8837.0	8588.2	8566.3	8317.6	8154.2	8105.4	8042.0	7851.8	7883.5
17.5°	8588.2	8795.5	8856.5	8802.8	8646.8	8478.5	8249.3	8151.8	7961.6	7876.2	7817.7
20°	8124.9	8334.6	8595.6	8612.6	8710.2	8590.7	8290.7	8132.2	7903.0	7754.3	7705.5
22.5°	7756.7	7910.3	8210.3	8349.3	8468.8	8510.2	8320.0	8085.9	7800.6	7656.8	7627.5
25°	7561.7	7595.8	7686.0	7849.4	8112.7	8302.9	8329.8	8081.0	7932.3	7617.7	7451.9
27.5°	7490.9	7461.7	7425.1	7508.0	7705.5	7937.2	8090.8	8132.2	7761.6	7461.7	7295.9
30°	7310.5	7327.6	7271.5	7242.2	7371.5	7610.4	7883.5	7951.8	7666.5	7356.8	7166.6
32.5°	7088.6	7117.9	7127.6	7076.4	7049.6	7215.4	7510.4	7673.8	7659.2	7208.1	6995.9
35°	6810.6	6893.5	6915.5	6917.9	6874.0	6847.2	7017.9	7356.8	7486.1	7139.8	6832.6
37.5°	6518.0	6542.4	6661.9	6693.6	6693.6	6613.1	6739.9	7010.6	7191.0	6986.2	6632.6
40°	6152.2	6230.3	6342.4	6398.5	6454.6	6461.9	6391.2	6581.4	6878.9	6827.7	6444.8
42.5°	5886.4	5937.6	6005.9	6081.5	6196.1	6225.4	6152.2	6186.4	6496.0	6630.2	6201.0
45°	5576.7	5645.0	5664.5	5747.4	5866.9	5952.3	5949.8	5879.1	6127.8	6293.7	6023.0
47.5°	5259.7	5325.6	5359.7	5401.2	5489.0	5598.7	5659.7	5628.0	5676.7	6001.0	5786.5
50°	4933.0	4969.6	5037.8	5084.2	5142.7	5206.1	5352.4	5381.7	5313.4	5571.9	5525.5
52.5°	4623.3	4635.5	4681.8	4728.2	4806.2	4852.5	4969.6	5057.4	5052.5	5128.1	5235.4
55°	4381.9	4328.3	4338.0	4374.6	4425.8	4496.5	4562.4	4698.9	4745.2	4759.9	4930.6
57.5°	3423.6	3974.7	4023.5	4021.0	4082.0	4113.7	4174.6	4264.9	4430.7	4394.1	4584.3
60°	3111.5	3172.4	3633.3	3686.9	3708.9	3738.2	3811.3	3894.2	4016.1	4094.2	4177.1
62.5°	2372.6	2743.3	2882.3	3289.5	3352.9	3369.9	3418.7	3457.7	3584.5	3762.5	3728.4
65°	1836.2	1994.7	2418.9	2584.8	2931.0	2974.9	3043.2	3084.6	3121.2	3326.1	3335.8
67.5°	1587.4	1611.8	1726.4	2045.9	2265.3	2604.3	2645.7	2682.3	2738.4	2884.7	2974.9
70°	1355.8	1385.0	1416.7	1443.6	1728.9	1953.2	2267.8	2280.0	2316.5	2414.1	2618.9
72.5°	256.0	1158.3	1177.8	1194.8	1226.5	1375.3	1675.2	1919.1	1933.7	1980.0	2167.8
75°	173.1	202.4	278.0	955.9	987.6	997.3	1048.5	1353.3	1577.7	1587.4	1670.3
77.5°	124.4	139.0	168.3	200.0	509.6	765.7	777.9	834.0	1065.6	1233.9	1248.5
80°	85.3	95.1	112.2	126.8	156.1	204.8	565.7	582.8	612.1	843.7	887.6
82.5°	48.8	56.1	65.8	80.5	92.7	117.0	151.2	195.1	397.5	424.3	563.3
85°	24.4	26.8	31.7	39.0	46.3	56.1	75.6	92.7	126.8	229.2	236.5
87.5°	12.2	12.2	12.2	12.2	19.5	21.9	26.8	34.1	43.9	65.8	85.3
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9
2.5°	8100.5	8134.7	8163.9	8171.3	8171.3	8176.1	8183.5	8188.3	8193.2	8198.1	8193.2
5°	8085.9	8122.5	8146.9	8154.2	8154.2	8168.8	8181.0	8195.6	8203.0	8203.0	8198.1
7.5°	8049.3	8076.2	8107.9	8127.4	8129.8	8154.2	8176.1	8173.7	8183.5	8188.3	8200.5
10°	8000.6	8000.6	8054.2	8068.8	8081.0	8107.9	8115.2	8129.8	8163.9	8168.8	8200.5
12.5°	7976.2	7951.8	8015.2	8022.5	8064.0	8029.8	8073.7	8088.4	8054.2	8100.5	8039.6
15°	7866.5	7895.7	7886.0	7907.9	7981.1	7942.0	8061.5	8022.5	8110.3	8005.4	8190.8
17.5°	7776.2	7771.4	7810.4	7829.9	7844.5	7927.4	7959.1	8003.0	8037.1	8007.9	8081.0
20°	7710.4	7671.4	7700.6	7722.6	7773.8	7837.2	7856.7	7790.9	7905.5	8100.5	8146.9
22.5°	7586.0	7559.2	7593.4	7593.4	7671.4	7661.6	7734.8	7693.3	7800.6	8027.4	8263.9
25°	7417.8	7420.2	7456.8	7500.7	7515.3	7625.1	7664.1	7717.7	7851.8	8122.5	8266.4
27.5°	7247.1	7232.5	7254.4	7344.6	7420.2	7500.7	7512.9	7695.8	7878.6	8064.0	8190.8
30°	7076.4	7061.8	7076.4	7142.2	7232.5	7286.1	7420.2	7664.1	7834.8	7961.6	8081.0
32.5°	6893.5	6878.9	6913.0	6961.8	7120.3	7127.6	7393.4	7622.6	7756.7	7849.4	7827.4
35°	6698.4	6678.9	6710.6	6786.2	6932.5	6986.2	7264.2	7434.9	7586.0	7629.9	7527.5
37.5°	6464.3	6430.2	6469.2	6574.1	6727.7	6883.8	7115.4	7312.9	7393.4	7276.4	7154.4
40°	6220.5	6196.1	6264.4	6318.0	6498.5	6715.5	6981.3	7120.3	7069.1	6935.0	6800.9
42.5°	6003.5	5952.3	6013.2	6115.6	6320.5	6566.8	6781.3	6859.4	6737.5	6539.9	6383.9
45°	5737.7	5676.7	5749.9	5886.4	6105.9	6386.3	6554.6	6527.7	6320.5	6149.8	5935.2
47.5°	5459.7	5386.5	5459.7	5623.1	5869.4	6166.9	6288.8	6166.9	5905.9	5691.4	5518.2
50°	5186.6	5101.2	5172.0	5418.2	5659.7	5888.9	5886.4	5649.9	5493.8	5259.7	5108.6
52.5°	4915.9	4794.0	4864.7	5132.9	5374.4	5635.3	5442.6	5223.2	5035.4	4830.6	4781.8
55°	4581.9	4450.2	4545.3	4935.4	5120.8	5274.4	4967.1	4774.5	4589.2	4486.8	4425.8
57.5°	4264.9	4121.0	4203.9	4664.8	4801.3	4840.3	4557.5	4284.4	4174.6	4140.5	4052.7
60°	3938.1	3774.7	3852.8	4384.3	4479.4	4320.9	4043.0	3830.8	3808.9	3740.6	3672.3
62.5°	3626.0	3445.5	3494.3	4035.6	4079.5	3791.8	3535.8	3479.7	3426.0	3357.8	3321.2
65°	3267.5	3079.8	3148.0	3665.0	3623.5	3252.9	3109.0	3096.8	3026.1	2970.0	3023.7
67.5°	2938.3	2716.4	2811.5	3260.2	3072.5	2770.1	2711.6	2682.3	2626.2	2657.9	2094.6
70°	2577.4	2336.0	2465.3	2823.7	2545.7	2345.8	2323.8	2280.0	2282.4	1814.2	1528.9
72.5°	2175.1	1965.4	2153.2	2345.8	2014.2	1955.6	1923.9	1919.1	1548.4	1258.2	1187.5
75°	1821.5	1609.4	1811.8	1884.9	1604.5	1565.5	1563.0	1292.4	1016.8	970.5	948.6
77.5°	1421.6	1258.2	1450.9	1341.2	1231.4	1187.5	1065.6	799.8	765.7	734.0	275.5
80°	958.3	970.5	1082.7	924.2	877.8	748.6	590.1	565.7	487.7	195.1	153.6
82.5°	582.8	731.5	690.1	577.9	565.7	407.2	373.1	190.2	141.4	112.2	97.5
85°	302.4	370.6	356.0	314.6	234.1	209.7	117.0	90.2	73.2	56.1	46.3
87.5°	102.4	136.6	131.7	104.9	80.5	63.4	41.5	34.1	24.4	19.5	17.1
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9
2.5°	8188.3	8188.3	8183.5	8188.3	8190.8	8185.9	8185.9	8190.8	8193.2	8195.6	8207.8
5°	8200.5	8205.4	8212.7	8227.3	8229.8	8259.0	8271.2	8278.6	8285.9	8288.3	8271.2
7.5°	8227.3	8244.4	8259.0	8256.6	8239.5	8193.2	8178.6	8166.4	8188.3	8244.4	8310.3
10°	8251.7	8173.7	8027.4	8227.3	8166.4	8222.5	8388.3	8424.9	8537.0	8695.5	8741.9
12.5°	8083.5	8298.1	8344.4	8120.1	8534.6	8381.0	8563.9	8724.8	8771.1	8932.1	8834.5
15°	8263.9	8368.8	8439.5	8663.8	8639.4	8771.1	8822.3	8790.6	8797.9	8839.4	8949.1
17.5°	8261.5	8471.2	8517.5	8668.7	8771.1	8773.6	8758.9	8744.3	8783.3	8815.0	8749.2
20°	8402.9	8471.2	8561.4	8622.4	8641.9	8666.3	8712.6	8676.0	8602.9	8532.2	8502.9
22.5°	8332.2	8485.8	8563.9	8573.6	8561.4	8485.8	8417.5	8315.1	8281.0	8244.4	8256.6
25°	8346.8	8417.5	8407.8	8368.8	8317.6	8176.1	8142.0	8098.1	8032.3	7873.8	7729.9
27.5°	8242.0	8205.4	8161.5	8066.4	7973.7	7898.2	7812.8	7671.4	7554.3	7383.6	7320.2
30°	8066.4	7920.1	7812.8	7756.7	7666.5	7539.7	7410.5	7237.3	7088.6	7054.5	7022.8
32.5°	7729.9	7586.0	7498.3	7361.7	7208.1	7056.9	6908.1	6839.9	6808.2	6813.0	6783.8
35°	7386.1	7259.3	7127.6	6922.8	6808.2	6657.0	6603.3	6588.7	6559.4	6527.7	6493.6
37.5°	7020.3	6871.6	6674.1	6552.1	6437.5	6376.6	6349.7	6327.8	6276.6	6220.5	6181.5
40°	6666.7	6398.5	6288.8	6169.3	6135.2	6108.3	6069.3	6015.7	5945.0	5935.2	5918.1
42.5°	6193.7	6001.0	5905.9	5881.6	5840.1	5793.8	5759.6	5701.1	5671.8	5691.4	5706.0
45°	5745.0	5647.5	5615.8	5586.5	5508.5	5442.6	5420.7	5401.2	5425.6	5532.9	5276.8
47.5°	5381.7	5342.7	5303.6	5254.9	5181.7	5132.9	5154.9	5174.4	5196.3	4408.7	4023.5
50°	5067.1	5013.5	4952.5	4898.9	4855.0	4850.1	4964.7	4620.9	3869.8	3850.3	3460.2
52.5°	4723.3	4642.8	4606.2	4574.5	4594.1	4667.2	3862.5	3584.5	3438.2	2987.1	2787.2
55°	4352.6	4281.9	4281.9	4311.2	4206.3	3409.0	3367.5	2911.5	2636.0	2557.9	2526.2
57.5°	3982.0	3974.7	4016.1	3672.3	3094.4	2967.6	2494.5	2394.6	2350.7	2340.9	2289.7
60°	3643.1	3711.3	3106.6	2857.9	2484.8	2240.9	2172.7	2160.5	2114.1	2097.1	2050.7
62.5°	3372.4	2796.9	2604.3	2126.3	2002.0	1970.3	1933.7	1916.6	1875.2	1655.7	485.3
65°	2436.0	2301.9	1867.9	1787.4	1777.6	1731.3	1716.7	1543.5	363.3	243.8	207.3
67.5°	1838.6	1631.3	1575.2	1560.6	1514.3	1421.6	421.9	241.4	207.3	180.4	158.5
70°	1411.9	1375.3	1333.8	1299.7	382.8	239.0	207.3	175.6	151.2	134.1	121.9
72.5°	1155.8	1131.4	658.4	251.2	204.8	173.1	153.6	134.1	117.0	107.3	97.5
75°	904.7	251.2	207.3	173.1	148.7	126.8	112.2	100.0	90.2	82.9	75.6
77.5°	204.8	165.8	141.4	119.5	107.3	95.1	85.3	73.2	65.8	58.5	48.8
80°	126.8	109.7	92.7	85.3	73.2	61.0	53.6	48.8	39.0	36.6	31.7
82.5°	82.9	65.8	58.5	48.8	39.0	36.6	31.7	24.4	21.9	19.5	17.1
85°	36.6	31.7	26.8	21.9	17.1	14.6	12.2	9.8	9.8	9.8	9.8
87.5°	12.2	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	4.9	4.9
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9
2.5°	8212.7	8256.6	8298.1	8285.9	8242.0	8173.7	8154.2	8127.4	8146.9	8188.3	8205.4
5°	8271.2	8246.9	8334.6	8463.9	8673.6	8693.1	8839.4	8873.5	8990.6	9063.7	9061.3
7.5°	8354.1	8700.4	8844.3	9000.3	9071.1	9054.0	9075.9	9058.9	9032.0	9019.8	9005.2
10°	8776.0	9039.4	9093.0	9093.0	8983.3	8834.5	8771.1	8661.4	8441.9	8446.8	8410.2
12.5°	9022.3	9114.9	8988.1	8880.9	8439.5	8268.8	8083.5	7995.7	7944.5	7866.5	7895.7
15°	8893.0	8761.4	8685.8	8339.5	8068.8	7761.6	7766.5	7712.8	7656.8	7661.6	7625.1
17.5°	8702.8	8598.0	8061.5	7822.6	7690.9	7571.4	7549.5	7478.7	7442.2	7430.0	7427.5
20°	8441.9	8064.0	7664.1	7605.5	7447.0	7310.5	7288.5	7310.5	7422.7	7222.7	6544.8
22.5°	8137.1	7593.4	7476.3	7310.5	7203.2	7149.6	7283.7	6674.1	5752.3	5864.5	5745.0
25°	7620.2	7383.6	7183.7	7056.9	7044.7	6715.5	5596.3	5479.2	4886.7	4569.7	4213.7
27.5°	7242.2	7139.8	6930.1	6908.1	6749.6	5491.4	4908.6	4264.9	4028.3	3991.8	3913.7
30°	7013.0	6866.7	6739.9	6186.4	5386.5	4420.9	3938.1	3847.9	3806.4	3762.5	3694.3
32.5°	6737.5	6598.5	6659.4	5201.2	4294.1	3806.4	3708.9	3643.1	3567.5	3538.2	3291.9
35°	6457.0	6393.6	5203.7	4372.2	3691.8	3574.8	3501.6	3433.3	2731.1	660.8	224.3
37.5°	6157.1	6142.5	4677.0	3628.4	3457.7	3348.0	3140.7	648.6	153.6	104.9	78.0
40°	5923.0	4679.4	3696.7	3401.6	3262.7	3089.5	434.0	107.3	68.3	41.5	26.8
42.5°	5766.9	4208.8	3309.0	3191.9	2889.6	319.4	109.7	46.3	26.8	21.9	17.1
45°	4445.3	3323.6	3092.0	2970.0	365.8	109.7	63.4	21.9	17.1	14.6	9.8
47.5°	4101.5	3018.8	2882.3	648.6	121.9	58.5	43.9	14.6	9.8	9.8	9.8
50°	3106.6	2789.6	2294.6	158.5	78.0	41.5	31.7	9.8	9.8	9.8	7.3
52.5°	2723.8	2575.0	246.3	104.9	61.0	31.7	19.5	7.3	7.3	7.3	7.3
55°	2489.7	1633.8	146.3	80.5	51.2	29.3	12.2	7.3	7.3	7.3	4.9
57.5°	2277.5	219.5	107.3	68.3	46.3	26.8	7.3	7.3	7.3	7.3	4.9
60°	1931.3	158.5	87.8	61.0	43.9	24.4	7.3	7.3	7.3	7.3	7.3
62.5°	251.2	124.4	75.6	53.6	31.7	19.5	4.9	7.3	7.3	7.3	7.3
65°	182.9	97.5	68.3	36.6	19.5	7.3	4.9	7.3	7.3	7.3	7.3
67.5°	141.4	80.5	51.2	31.7	17.1	4.9	4.9	7.3	7.3	7.3	7.3
70°	112.2	68.3	41.5	26.8	14.6	4.9	4.9	7.3	7.3	7.3	7.3
72.5°	87.8	48.8	29.3	14.6	9.8	4.9	4.9	7.3	7.3	7.3	7.3
75°	65.8	39.0	21.9	12.2	4.9	4.9	4.9	7.3	7.3	7.3	7.3
77.5°	43.9	24.4	17.1	9.8	9.8	9.8	12.2	12.2	7.3	7.3	7.3
80°	29.3	17.1	12.2	12.2	12.2	9.8	12.2	12.2	7.3	12.2	7.3
82.5°	14.6	12.2	12.2	9.8	9.8	7.3	9.8	9.8	9.8	9.8	7.3
85°	9.8	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.8	9.8	7.3
87.5°	4.9	4.9	4.9	4.9	7.3	7.3	7.3	7.3	9.8	9.8	7.3
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9
2.5°	8183.5	8190.8	8171.3	8276.1	8222.5	8227.3	8249.3	8193.2	8205.4	8166.4	8139.6
5°	9071.1	9085.7	9100.3	9105.2	9114.9	9127.1	9112.5	9105.2	9090.6	9041.8	8990.6
7.5°	8932.1	8915.0	8907.7	8917.4	8934.5	8941.8	8929.6	8946.7	9010.1	9036.9	9054.0
10°	8200.5	8122.5	8176.1	8168.8	8107.9	8312.7	8256.6	8288.3	8310.3	8534.6	8671.1
12.5°	7851.8	7900.6	7807.9	7761.6	7822.6	7864.0	7905.5	7817.7	7939.6	7883.5	8064.0
15°	7559.2	7530.0	7520.2	7522.6	7510.4	7569.0	7583.6	7603.1	7620.2	7695.8	7725.0
17.5°	7427.5	7476.3	7495.8	7510.4	7486.1	7459.2	7432.4	7393.4	7405.6	7386.1	7442.2
20°	6088.8	5925.4	5915.7	6010.8	5905.9	5964.5	6105.9	7052.0	7020.3	7388.5	7264.2
22.5°	5081.7	4928.1	4796.4	4681.8	4845.2	4913.5	5176.8	5474.3	5957.1	5881.6	6405.8
25°	4150.3	4094.2	4060.0	4043.0	4055.2	4050.3	4108.8	4247.8	4467.3	4984.2	5652.3
27.5°	3882.0	3855.2	3843.0	3804.0	3833.3	3823.5	3869.8	3899.1	3964.9	4016.1	4233.2
30°	3669.9	3638.2	3616.2	3574.8	3604.0	3606.5	3621.1	3696.7	3723.5	3767.4	3835.7
32.5°	1341.2	790.1	741.3	704.7	770.6	1004.6	1763.0	3082.2	3516.3	3550.4	3628.4
35°	131.7	109.7	97.5	97.5	100.0	109.7	146.3	385.3	704.7	2723.8	3409.0
37.5°	51.2	43.9	36.6	34.1	36.6	41.5	56.1	73.2	100.0	207.3	924.2
40°	21.9	19.5	17.1	17.1	17.1	17.1	19.5	24.4	36.6	68.3	107.3
42.5°	14.6	12.2	12.2	12.2	12.2	12.2	12.2	12.2	17.1	21.9	43.9
45°	9.8	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.8	12.2	19.5
47.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.8
50°	7.3	7.3	7.3	7.3	4.9	7.3	4.9	7.3	7.3	7.3	7.3
52.5°	7.3	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	7.3	7.3
55°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	7.3
57.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
60°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
62.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	7.3	7.3	4.9
65°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	7.3	4.9
67.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
70°	7.3	7.3	4.9	7.3	4.9	4.9	7.3	7.3	7.3	4.9	4.9
72.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	14.6	14.6	9.8
75°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	12.2	14.6	12.2
77.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	12.2	12.2	12.2
80°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.8	9.8	9.8
82.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.8	9.8	9.8
85°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
87.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9
2.5°	8093.2	8090.8	8142.0	8181.0	8166.4	8181.0	8198.1	8200.5	8205.4	8185.9	8178.6
5°	8893.0	8817.5	8671.1	8566.3	8444.4	8222.5	8112.7	8124.9	8127.4	8120.1	8129.8
7.5°	9046.7	9039.4	8988.1	8966.2	8883.3	8724.8	8471.2	8427.3	8320.0	8251.7	8195.6
10°	8661.4	8837.0	8883.3	8961.3	9010.1	8980.8	8766.2	8734.5	8666.3	8588.2	8605.3
12.5°	8244.4	8388.3	8395.6	8819.9	8915.0	8924.7	8841.8	8885.7	8895.5	8719.9	8617.5
15°	7732.3	7800.6	7944.5	8339.5	8627.3	8807.7	8861.3	8885.7	8766.2	8758.9	8717.5
17.5°	7508.0	7551.9	7617.7	7839.6	8276.1	8541.9	8768.7	8751.6	8797.9	8763.8	8659.0
20°	7225.1	7261.7	7378.8	7490.9	7705.5	8059.1	8483.4	8515.1	8576.0	8568.7	8598.0
22.5°	7220.3	7091.0	7110.5	7198.3	7422.7	7739.7	8190.8	8295.6	8334.6	8361.5	8393.2
25°	5727.9	6754.5	6942.3	6998.4	7144.7	7330.0	7861.6	7900.6	7973.7	8093.2	8181.0
27.5°	4962.3	5659.7	6410.7	6800.9	6893.5	7047.1	7364.1	7422.7	7671.4	7700.6	7837.2
30°	3916.2	4455.1	5576.7	6515.6	6669.2	6776.5	7000.8	7117.9	7225.1	7342.2	7486.1
32.5°	3684.5	3769.9	4391.7	5391.4	6586.3	6505.8	6671.6	6742.3	6859.4	6961.8	7066.6
35°	3472.4	3530.9	3662.6	4416.0	5364.6	6283.9	6396.1	6442.4	6508.2	6586.3	6661.9
37.5°	3250.5	3338.2	3428.5	3630.9	4962.3	6108.3	6105.9	6159.5	6198.6	6264.4	6327.8
40°	590.1	3065.1	3211.4	3343.1	3847.9	4872.0	5832.8	5857.2	5884.0	5925.4	5991.3
42.5°	95.1	512.1	3009.1	3135.9	3279.7	4362.4	5708.4	5608.4	5591.4	5620.6	5679.2
45°	48.8	124.4	604.7	2928.6	3057.8	3479.7	4667.2	5435.3	5418.2	5362.2	5374.4
47.5°	36.6	78.0	148.7	1012.0	2862.7	2987.1	4306.3	4260.0	4584.3	5206.1	5111.0
50°	31.7	53.6	87.8	207.3	2528.7	2750.6	3316.3	3874.7	4045.4	4067.3	4813.5
52.5°	29.3	36.6	63.4	134.1	531.6	2543.3	2696.9	2892.0	3179.7	3796.7	3782.0
55°	26.8	34.1	53.6	90.2	185.3	2292.1	2450.6	2487.2	2548.2	2843.2	3233.4
57.5°	14.6	31.7	51.2	78.0	139.0	419.4	2223.9	2253.1	2301.9	2314.1	2453.1
60°	7.3	29.3	46.3	68.3	102.4	195.1	1999.5	2033.7	2062.9	2067.8	2111.7
62.5°	4.9	26.8	39.0	63.4	85.3	139.0	473.1	965.6	1836.2	1836.2	1887.4
65°	4.9	19.5	24.4	41.5	78.0	114.6	200.0	231.7	451.1	1109.5	1655.7
67.5°	4.9	7.3	21.9	34.1	58.5	87.8	146.3	170.7	204.8	234.1	434.0
70°	4.9	4.9	19.5	21.9	36.6	65.8	104.9	119.5	139.0	158.5	182.9
72.5°	4.9	4.9	17.1	17.1	24.4	43.9	80.5	87.8	100.0	112.2	129.2
75°	12.2	9.8	14.6	14.6	17.1	34.1	61.0	68.3	73.2	82.9	95.1
77.5°	12.2	12.2	12.2	12.2	12.2	21.9	39.0	43.9	51.2	56.1	65.8
80°	9.8	9.8	9.8	12.2	12.2	14.6	24.4	26.8	29.3	36.6	39.0
82.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	14.6	17.1	21.9
85°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.8	9.8	9.8	9.8
87.5°	7.3	7.3	7.3	4.9	4.9	7.3	7.3	7.3	7.3	7.3	7.3
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9
2.5°	8176.1	8161.5	8149.3	8156.6	8134.7	8124.9	8132.2	8134.7	8139.6	8151.8	8154.2
5°	8154.2	8149.3	8171.3	8183.5	8178.6	8183.5	8183.5	8173.7	8159.1	8168.8	8146.9
7.5°	8139.6	8107.9	8083.5	8088.4	8064.0	8093.2	8120.1	8159.1	8171.3	8171.3	8146.9
10°	8390.7	8356.6	8220.0	8127.4	8066.4	8012.8	8139.6	8010.3	8071.3	7839.6	8105.4
12.5°	8598.0	8644.3	8583.4	8329.8	8285.9	8124.9	8217.6	8059.1	8012.8	7747.0	7832.3
15°	8680.9	8593.1	8573.6	8502.9	8407.8	8361.5	8112.7	8085.9	8010.3	8039.6	7927.4
17.5°	8607.7	8651.6	8593.1	8546.8	8449.2	8339.5	8190.8	8059.1	7954.2	7720.2	7917.7
20°	8537.0	8595.6	8420.0	8449.2	8459.0	8332.2	8254.2	8144.4	8012.8	7793.3	7622.6
22.5°	8420.0	8378.5	8393.2	8349.3	8312.7	8329.8	8222.5	8146.9	7925.0	7825.0	7593.4
25°	8229.8	8215.2	8254.2	8249.3	8161.5	8132.2	8078.6	7998.1	7910.3	7749.4	7559.2
27.5°	7920.1	7995.7	8064.0	8095.7	8049.3	7971.3	7942.0	7895.7	7834.8	7671.4	7530.0
30°	7593.4	7678.7	7756.7	7825.0	7866.5	7832.3	7805.5	7778.7	7686.0	7578.7	7420.2
32.5°	7220.3	7332.4	7439.7	7522.6	7612.9	7639.7	7620.2	7598.2	7520.2	7422.7	7295.9
35°	6788.7	6942.3	7098.3	7247.1	7286.1	7349.5	7412.9	7376.3	7334.9	7237.3	7120.3
37.5°	6422.9	6532.6	6644.8	6832.6	6969.1	7049.6	7161.7	7176.4	7105.7	7059.3	6905.7
40°	6044.9	6144.9	6308.3	6418.0	6605.8	6698.4	6817.9	6871.6	6854.5	6827.7	6693.6
42.5°	5747.4	5796.2	5903.5	6001.0	6186.4	6376.6	6481.4	6539.9	6600.9	6579.0	6510.7
45°	5430.4	5474.3	5510.9	5596.3	5776.7	5945.0	6074.2	6162.0	6271.7	6322.9	6240.0
47.5°	5115.9	5128.1	5172.0	5242.7	5350.0	5479.2	5696.2	5827.9	5930.3	6030.3	5976.7
50°	4874.5	4830.6	4837.9	4881.8	4969.6	5096.4	5252.4	5437.8	5554.8	5676.7	5688.9
52.5°	4260.0	4616.0	4530.7	4555.0	4601.4	4662.3	4825.7	5008.6	5152.5	5257.3	5362.2
55°	3574.8	3645.5	4330.7	4233.2	4262.4	4316.1	4391.7	4574.5	4713.5	4859.8	5006.1
57.5°	2772.5	3299.2	3326.1	3960.1	3945.4	3950.3	4013.7	4118.6	4257.5	4440.4	4564.8
60°	2155.6	2377.5	2809.1	3028.6	3584.5	3604.0	3640.6	3701.6	3821.1	3994.2	4191.7
62.5°	1902.0	1931.3	2084.9	2414.1	2775.0	3211.4	3289.5	3299.2	3352.9	3526.0	3755.2
65°	1670.3	1689.8	1736.2	1770.3	2072.7	2494.5	2870.1	2931.0	2965.2	3067.6	3262.7
67.5°	1151.0	1455.8	1497.2	1521.6	1550.9	1745.9	2211.7	2521.4	2560.4	2650.6	2821.3
70°	221.9	460.9	1260.7	1287.5	1302.1	1346.0	1421.6	1914.2	2172.7	2258.0	2336.0
72.5°	151.2	178.0	214.6	507.2	1072.9	1097.3	1114.4	1177.8	1614.3	1863.0	1904.4
75°	109.7	121.9	143.9	178.0	219.5	714.5	885.2	916.9	948.6	1309.5	1519.2
77.5°	78.0	87.8	97.5	114.6	134.1	173.1	248.7	685.2	716.9	734.0	1036.3
80°	43.9	53.6	65.8	75.6	85.3	97.5	126.8	158.5	353.6	517.0	543.8
82.5°	24.4	29.3	34.1	41.5	46.3	58.5	70.7	85.3	112.2	165.8	351.1
85°	12.2	12.2	12.2	17.1	19.5	26.8	31.7	36.6	51.2	70.7	97.5
87.5°	7.3	7.3	9.8	9.8	9.8	12.2	12.2	12.2	14.6	21.9	31.7
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	8124.9	8124.9	8124.9	8124.9	8124.9
2.5°	8156.6	8149.3	8149.3	8178.6	8171.3
5°	8142.0	8134.7	8132.2	8163.9	8149.3
7.5°	8129.8	8103.0	8095.7	8124.9	8112.7
10°	8081.0	8061.5	8073.7	8064.0	8059.1
12.5°	7998.1	7985.9	7934.7	7939.6	7981.1
15°	7849.4	7898.2	7810.4	7888.4	7905.5
17.5°	7576.3	7686.0	7771.4	7817.7	7825.0
20°	7698.2	7734.8	7690.9	7693.3	7722.6
22.5°	7539.7	7556.8	7569.0	7554.3	7617.7
25°	7286.1	7220.3	7361.7	7391.0	7493.4
27.5°	7208.1	7154.4	7220.3	7215.4	7300.7
30°	7144.7	6971.5	7000.8	7047.1	7152.0
32.5°	7054.5	6781.3	6752.1	6854.5	6971.5
35°	6896.0	6637.5	6569.2	6635.0	6810.6
37.5°	6761.8	6437.5	6301.0	6388.8	6618.0
40°	6561.9	6281.5	6069.3	6147.3	6418.0
42.5°	6322.9	6147.3	5820.6	5874.2	6183.9
45°	6081.5	5925.4	5579.2	5606.0	5974.2
47.5°	5835.2	5691.4	5328.0	5332.9	5706.0
50°	5593.8	5403.6	5103.7	5018.3	5420.7
52.5°	5279.3	5103.7	4876.9	4737.9	5150.0
55°	4981.8	4784.2	4618.4	4403.9	4842.8
57.5°	4691.6	4472.1	4360.0	4084.4	4494.1
60°	4294.1	4189.3	4023.5	3760.1	4179.5
62.5°	3886.9	3852.8	3684.5	3411.4	3791.8
65°	3411.4	3491.9	3318.7	3084.6	3389.5
67.5°	2962.7	3106.6	2916.4	2772.5	3001.7
70°	2484.8	2650.6	2543.3	2492.1	2589.6
72.5°	2014.2	2175.1	2184.9	2148.3	2180.0
75°	1555.7	1733.7	1831.3	1775.2	1782.5
77.5°	1180.2	1265.6	1372.9	1416.7	1407.0
80°	729.1	877.8	965.6	1055.9	1024.2
82.5°	368.2	492.6	599.9	697.4	651.1
85°	153.6	197.5	275.5	363.3	348.7
87.5°	46.3	78.0	82.9	117.0	109.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)