

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-LD5-136SL-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-LD5-136SL-RM-UNV-L950-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
METALIC FINISH REFLECTOR  
Light Source: -  
Ballast/Driver: -

**Summary**

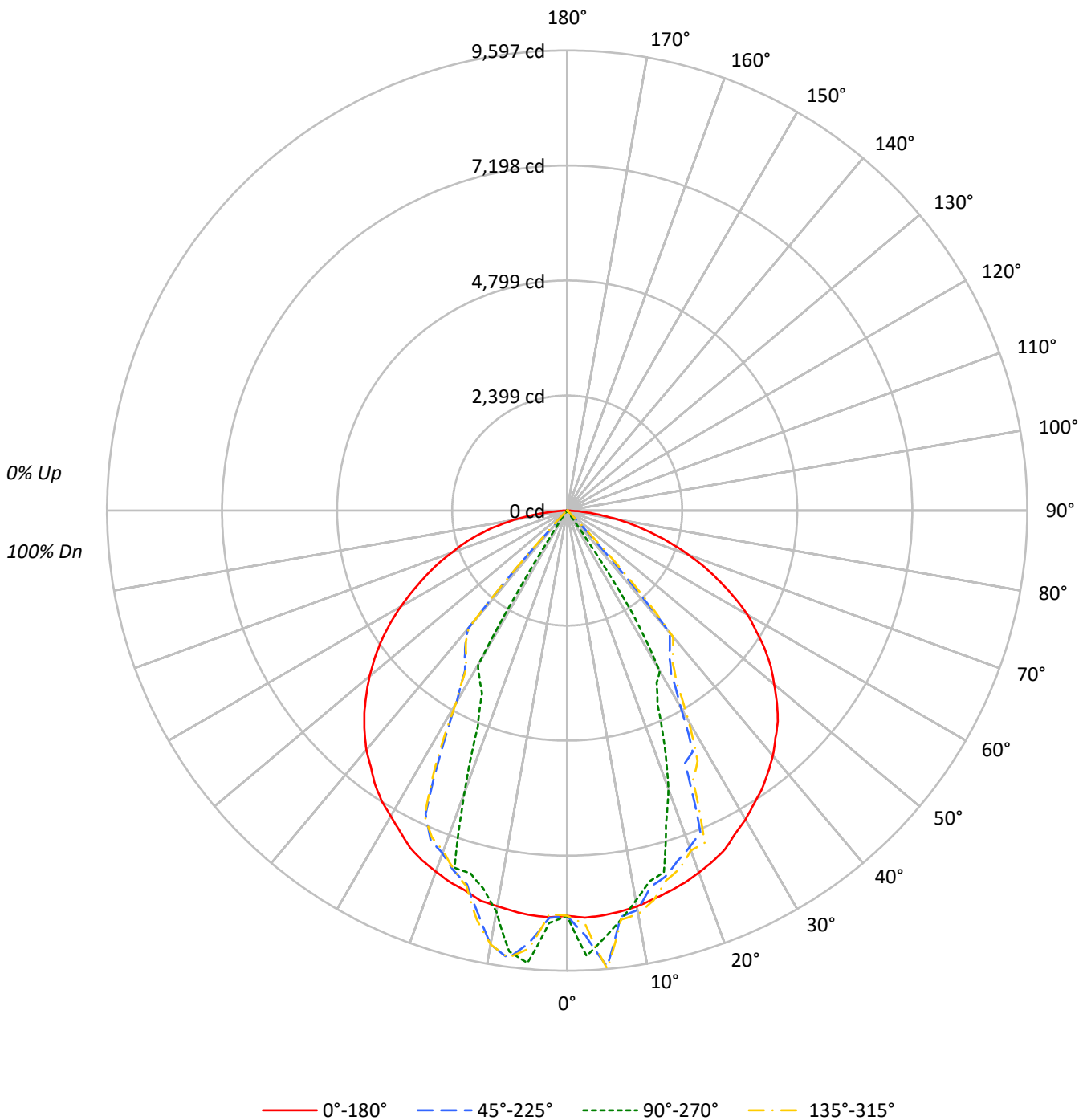
Lumens per Lamp: N/A  
Luminaire Lumens: 12016.0 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 110  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P#  
CATALOG NUMBER: 8SNLED-LD5-136SL-RM-UNV-L950-CD1-U

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	34144	34144	34144	34144
5°	34331	35117	34321	37189
10°	34296	31777	34275	32695
15°	34251	29660	34166	29737
20°	34341	23362	34244	23650
25°	34495	16907	34326	15954
30°	34395	14831	34032	14257
35°	34562	327	34055	396
40°	34753	71	33921	71
45°	34959	42	33647	32
50°	34792	33	33195	33
55°	34708	23	32575	23
60°	34203	25	31529	25
65°	32611	40	30289	27
70°	30509	44	29045	44
75°	27347	49	27797	49
80°	22768	57	24070	57
85°	14267	67	14566	67



TEST NUMBER: P#

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	847.8	7.1
10°-20°	2312.6	19.2
20°-30°	2942.7	24.5
30°-40°	2485.8	20.7
40°-50°	1625.1	13.5
50°-60°	1024.0	8.5
60°-70°	545.1	4.5
70°-80°	198.7	1.7
80°-90°	34.2	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°	6103.1	50.8
0°-40°	8588.9	71.5
0°-60°	11238.0	93.5
0°-90°	12016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12016.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	8450	8450	8450	8450	8450	
5°	8476	8943	8473	9470	8476	806
15°	8222	7804	8202	7824	8222	2324
25°	7794	4456	7756	4205	7794	3584
35°	7084	84	6980	101	7084	4431
45°	6214	10	5980	8	6214	4779
55°	5037	5	4727	5	5037	4488
65°	3525	8	3274	5	3525	3491
75°	1854	8	1884	8	1854	1968
85°	363	8	370	8	363	459
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-RM-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5
2.5°	8498.7	8503.8	8506.3	8511.4	8519.0	8521.6	8526.6	8521.6	8521.6	8521.6	8521.6
5°	8475.9	8486.1	8493.7	8503.8	8521.6	8524.1	8544.4	8546.9	8557.1	8577.4	8592.6
7.5°	8437.9	8448.0	8463.2	8488.6	8514.0	8541.9	8577.4	8615.4	8668.7	8719.4	8782.8
10°	8382.1	8394.8	8412.5	8435.3	8559.6	8577.4	8656.0	8765.0	8795.5	8955.2	9074.5
12.5°	8300.9	8344.0	8389.7	8410.0	8529.2	8716.8	8980.6	8927.4	8869.0	9391.5	9383.9
15°	8222.3	8280.6	8257.8	8422.7	8531.7	8858.9	8747.3	8985.7	9421.9	9315.4	9320.5
17.5°	8138.6	8151.3	8278.1	8415.0	8610.3	8777.7	8914.7	9241.8	9328.1	9335.7	9241.8
20°	8032.1	8092.9	8278.1	8402.4	8732.1	8810.7	9107.4	9274.8	9239.3	9153.1	8993.3
22.5°	7923.0	8108.2	8295.8	8470.8	8701.6	8912.1	9059.2	9137.9	8952.7	8612.9	8430.3
25°	7793.7	7902.7	8148.7	8404.9	8694.0	8815.8	8902.0	8775.2	8534.2	8229.9	7923.0
27.5°	7593.3	7768.3	8082.8	8371.9	8633.2	8780.3	8640.8	8336.4	7948.4	7748.0	7608.5
30°	7438.6	7666.9	7925.6	8204.5	8475.9	8562.1	8207.1	7859.6	7593.3	7393.0	7362.5
32.5°	7250.9	7575.6	7821.6	8087.9	8316.1	8202.0	7857.1	7408.2	7187.5	7111.4	7141.9
35°	7083.5	7329.6	7651.7	7912.9	8077.7	7821.6	7276.3	6997.3	6890.8	6933.9	6878.1
37.5°	6883.2	7207.8	7504.6	7730.3	7674.5	7289.0	6827.4	6649.9	6662.5	6627.0	6520.5
40°	6675.2	6984.6	7294.1	7507.1	7311.8	6723.4	6416.5	6378.5	6386.1	6272.0	6119.8
42.5°	6431.8	6713.3	7022.7	7215.4	6794.4	6335.4	6127.4	6132.5	6066.5	5906.8	5825.6
45°	6213.6	6472.3	6794.4	6812.2	6294.8	5911.8	5851.0	5785.0	5637.9	5584.7	5523.8
47.5°	5934.7	6221.2	6487.5	6391.2	5805.3	5566.9	5521.3	5376.7	5303.2	5262.6	5211.8
50°	5637.9	5927.1	6170.5	5896.6	5343.7	5287.9	5138.3	5024.2	4973.4	4930.3	4884.7
52.5°	5356.4	5594.8	5843.4	5371.6	4988.7	4935.4	4765.5	4699.5	4648.8	4600.6	4590.5
55°	5036.9	5247.4	5417.3	4872.0	4648.8	4524.5	4402.8	4357.2	4309.0	4286.1	4324.2
57.5°	4674.2	4912.6	4887.2	4380.0	4281.1	4101.0	4055.4	4024.9	3989.4	4004.6	3687.6
60°	4347.0	4529.6	4405.3	4019.8	3852.5	3730.7	3690.1	3669.9	3690.1	3380.7	2972.4
62.5°	3943.8	4149.2	3898.1	3598.8	3421.3	3363.0	3327.5	3355.4	3058.6	2718.8	2619.9
65°	3525.3	3748.5	3378.2	3147.4	3035.8	2985.1	2982.5	2746.7	2455.0	2323.1	2323.1
67.5°	3122.0	3352.8	2876.0	2683.3	2640.2	2645.2	2498.1	2140.5	2059.4	1970.6	1714.5
70°	2693.4	2896.3	2376.4	2259.7	2234.4	2216.6	1859.0	1762.6	1666.3	1430.4	1410.1
72.5°	2267.3	2366.3	1909.7	1881.8	1876.8	1559.8	1488.7	1323.9	1212.3	1184.4	1171.7
75°	1853.9	1823.5	1509.0	1534.4	1293.5	1181.9	1067.7	971.4	956.1	946.0	235.9
77.5°	1463.4	1311.2	1189.5	1034.8	925.7	786.2	763.4	748.2	492.0	177.5	144.6
80°	1065.2	849.6	791.3	672.1	573.2	550.4	563.0	172.5	137.0	114.1	98.9
82.5°	677.2	542.7	443.8	388.0	377.9	164.9	121.7	98.9	86.2	73.5	60.9
85°	362.7	240.9	223.2	187.7	111.6	76.1	63.4	48.2	40.6	33.0	30.4
87.5°	114.1	96.4	78.6	63.4	38.0	25.4	20.3	17.8	15.2	12.7	12.7
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°	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5
2.5°	8516.5	8521.6	8519.0	8526.6	8526.6	8536.8	8544.4	8552.0	8567.2	8574.8	8633.2
5°	8625.5	8638.2	8676.3	8711.8	8754.9	8767.6	8841.1	8858.9	8945.1	8955.2	9239.3
7.5°	8869.0	8917.2	9008.5	9099.8	9191.1	9249.4	9350.9	9414.3	9482.8	9543.6	9769.4
10°	9163.2	9244.4	9333.1	9424.4	9477.7	9589.3	9650.2	9660.3	9642.6	9543.6	9178.4
12.5°	9452.3	9533.5	9495.5	9513.2	9576.6	9378.8	9406.7	9264.7	9363.6	8874.1	8511.4
15°	9411.8	9406.7	9312.9	9008.5	9059.2	8681.3	8529.2	8412.5	8506.3	8455.6	8399.8
17.5°	9290.0	9059.2	8896.9	8531.7	8377.0	8270.5	8273.0	8275.6	8229.9	8278.1	8136.1
20°	8775.2	8516.5	8275.6	8146.2	8100.6	8024.5	8062.5	8024.5	8027.0	8042.2	7824.1
22.5°	8090.4	8011.8	7872.3	7912.9	7897.7	7966.1	7915.4	7836.8	7862.2	7748.0	7583.2
25°	7814.0	7722.7	7717.6	7732.8	7710.0	7679.6	7633.9	7514.7	7507.1	7471.6	7395.5
27.5°	7535.0	7540.1	7555.3	7509.6	7428.5	7367.6	7299.1	7240.8	7263.6	7223.0	7119.1
30°	7342.2	7339.7	7248.4	7207.8	7058.2	7060.7	7043.0	7007.5	6984.6	6987.2	6921.2
32.5°	7068.3	6989.7	6885.7	6835.0	6822.3	6776.7	6741.2	6748.8	6766.5	6703.1	6771.6
35°	6786.8	6624.5	6609.3	6566.2	6525.6	6495.2	6507.8	6457.1	6454.6	6447.0	5889.0
37.5°	6408.9	6330.3	6322.7	6277.0	6249.1	6241.5	6193.4	6201.0	6223.8	6264.4	5021.6
40°	6097.0	6026.0	6008.2	6005.7	5944.8	5939.7	5952.4	6000.6	6033.6	5780.0	4785.8
42.5°	5762.2	5767.3	5711.5	5676.0	5683.6	5706.4	5767.3	5599.9	4851.7	4623.5	4374.9
45°	5475.6	5450.2	5419.8	5409.7	5475.6	5430.0	4760.4	4392.7	4303.9	4293.8	3596.3
47.5°	5176.3	5168.7	5156.1	5163.7	4788.3	4268.4	4116.2	4068.0	4083.2	4073.1	3089.1
50°	4874.5	4884.7	4884.7	4265.9	3915.9	3829.6	3842.3	3885.4	3616.6	3375.7	2878.6
52.5°	4613.3	4534.7	3885.4	3662.2	3583.6	3621.7	3530.4	3193.0	2949.6	2807.6	2663.0
55°	4128.9	3550.7	3406.1	3370.6	3398.5	3061.2	2853.2	2635.1	2571.7	2556.5	2472.8
57.5°	3248.8	3132.2	3144.9	3002.8	2680.7	2490.5	2406.8	2376.4	2348.5	2328.2	202.9
60°	2873.5	2906.5	2660.5	2356.1	2226.8	2201.4	2181.1	2153.2	2148.1	2112.6	129.3
62.5°	2630.0	2313.0	2100.0	2023.9	1993.4	1985.8	1947.8	1935.1	1643.4	225.7	96.4
65°	1983.3	1853.9	1813.4	1795.6	1762.6	1762.6	1463.4	230.8	187.7	162.3	86.2
67.5°	1618.1	1607.9	1587.6	1564.8	1065.2	223.2	195.3	169.9	147.1	129.3	76.1
70°	1369.5	1364.5	1242.7	228.3	190.2	167.4	147.1	131.9	121.7	109.1	68.5
72.5°	1123.5	228.3	192.7	167.4	144.6	131.9	119.2	106.5	96.4	88.8	55.8
75°	175.0	154.7	137.0	124.3	114.1	101.4	91.3	83.7	81.2	71.0	38.0
77.5°	126.8	109.1	98.9	88.8	78.6	71.0	60.9	53.3	48.2	40.6	27.9
80°	88.8	78.6	71.0	58.3	50.7	43.1	38.0	33.0	30.4	25.4	12.7
82.5°	50.7	43.1	38.0	30.4	27.9	22.8	20.3	17.8	17.8	12.7	12.7
85°	22.8	22.8	17.8	15.2	12.7	12.7	12.7	10.1	10.1	7.6	7.6
87.5°	10.1	10.1	10.1	10.1	10.1	7.6	7.6	7.6	7.6	7.6	5.1
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#

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**CANDELA DISTRIBUTION (continued):**

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5
2.5°	8714.3	8747.3	8810.7	8876.6	8803.1	9066.8	9046.6	9135.3	9183.5	9206.3	9259.6
5°	9490.4	9637.5	9685.7	9541.1	9457.4	9371.2	9175.9	9028.8	9046.6	8998.4	8823.4
7.5°	9475.2	9160.7	8737.1	8544.4	8529.2	8506.3	8567.2	8602.7	8607.8	8605.3	8600.2
10°	8673.7	8511.4	8483.5	8458.2	8468.3	8374.5	8331.3	8209.6	8275.6	8240.0	8252.7
12.5°	8430.3	8392.2	8242.6	8034.6	8158.9	8065.1	8011.8	8047.3	8006.7	7968.7	7956.0
15°	8285.7	8039.7	7956.0	7905.3	7869.8	7849.5	7867.2	7826.6	7814.0	7806.4	7824.1
17.5°	7986.4	7887.5	7796.2	7661.8	7664.3	7656.7	7707.4	7783.5	7788.6	7398.0	7045.5
20°	7750.6	7669.4	7552.7	7469.0	7583.2	7380.3	6596.6	6223.8	6165.5	6165.5	6175.6
22.5°	7562.9	7382.8	7390.4	7258.5	6190.8	5972.7	5977.8	6000.6	5896.6	5541.6	5503.5
25°	7306.7	7278.8	6723.4	5810.4	5818.0	5648.1	5386.8	5019.1	4620.9	4620.9	4555.0
27.5°	7114.0	6523.1	5711.5	5673.4	5102.8	4742.7	4519.5	4182.2	4136.5	4093.4	4098.5
30°	6949.1	5518.7	5539.0	4742.7	4321.6	4022.4	4004.6	3948.8	3920.9	3913.3	3885.4
32.5°	5493.4	5374.2	4636.1	4037.6	3872.7	3824.6	3801.7	3738.3	3735.8	3687.6	3352.8
35°	5151.0	4717.3	3880.4	3718.0	3669.9	3624.2	3586.2	2406.8	284.1	114.1	98.9
37.5°	4760.4	3941.2	3588.7	3515.1	3469.5	2564.1	256.2	88.8	63.4	45.7	40.6
40°	4035.1	3520.2	3408.6	3327.5	1372.1	88.8	55.8	43.1	25.4	22.8	20.3
42.5°	3403.6	3317.3	3198.1	973.9	101.4	43.1	27.9	20.3	17.8	17.8	15.2
45°	3185.4	3109.4	1288.4	96.4	63.4	20.3	17.8	17.8	15.2	10.1	10.1
47.5°	2982.5	2624.9	116.7	60.9	40.6	17.8	15.2	10.1	10.1	10.1	7.6
50°	2767.0	144.6	81.2	45.7	25.4	10.1	10.1	10.1	10.1	7.6	7.6
52.5°	517.4	101.4	65.9	40.6	12.7	10.1	10.1	10.1	7.6	7.6	7.6
55°	121.7	81.2	60.9	35.5	10.1	10.1	10.1	7.6	7.6	7.6	5.1
57.5°	91.3	60.9	48.2	33.0	10.1	7.6	7.6	7.6	7.6	7.6	5.1
60°	76.1	43.1	38.0	30.4	7.6	7.6	7.6	7.6	7.6	7.6	5.1
62.5°	53.3	35.5	27.9	22.8	7.6	7.6	7.6	7.6	7.6	7.6	7.6
65°	43.1	27.9	22.8	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
67.5°	38.0	22.8	15.2	5.1	7.6	7.6	7.6	7.6	7.6	7.6	7.6
70°	30.4	7.6	7.6	5.1	7.6	7.6	7.6	7.6	7.6	7.6	7.6
72.5°	25.4	7.6	5.1	5.1	7.6	7.6	7.6	7.6	7.6	7.6	7.6
75°	25.4	12.7	5.1	5.1	7.6	7.6	10.1	10.1	7.6	7.6	7.6
77.5°	17.8	12.7	5.1	5.1	7.6	7.6	10.1	10.1	7.6	7.6	7.6
80°	10.1	12.7	5.1	7.6	7.6	15.2	17.8	10.1	7.6	7.6	7.6
82.5°	10.1	12.7	15.2	15.2	7.6	12.7	15.2	12.7	10.1	7.6	7.6
85°	10.1	7.6	10.1	12.7	7.6	12.7	12.7	10.1	10.1	7.6	7.6
87.5°	5.1	7.6	7.6	10.1	10.1	10.1	12.7	10.1	10.1	10.1	7.6
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-LD5-136SL-RM-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5
2.5°	9285.0	9295.1	9135.3	9079.5	9127.7	9117.6	9074.5	8914.7	8896.9	8790.4	8635.7
5°	8874.1	8942.6	8858.9	9003.4	8935.0	9003.4	9211.4	9307.8	9465.0	9561.4	9596.9
7.5°	8587.5	8602.7	8602.7	8615.4	8628.1	8630.6	8615.4	8605.3	8562.1	8508.9	8605.3
10°	8240.0	8257.8	8288.2	8283.2	8280.6	8333.9	8346.6	8455.6	8450.5	8470.8	8544.4
12.5°	8060.0	7923.0	8047.3	8014.3	8060.0	7989.0	8120.8	8098.0	8105.6	8166.5	8323.7
15°	7760.7	7803.8	7834.3	7834.3	7852.0	7836.8	7821.6	7925.6	7989.0	7991.5	7981.4
17.5°	7185.0	6857.8	7192.6	7106.4	7793.7	7811.4	7753.1	7704.9	7704.9	7743.0	7824.1
20°	6168.0	6175.6	6178.1	6211.1	6251.7	6249.1	6251.7	7250.9	7725.2	7616.1	7542.6
22.5°	5407.1	5313.3	5488.3	5475.6	5693.7	5934.7	6165.5	6142.6	6157.8	6862.9	7496.9
25°	4334.3	4456.1	4357.2	4400.3	4646.3	4932.9	5110.4	5574.5	6079.2	6043.7	6208.6
27.5°	4080.7	4047.7	4093.4	4093.4	4126.4	4164.4	4263.3	4524.5	4973.4	5445.2	5891.5
30°	3839.8	3867.7	3872.7	3918.4	3943.8	3969.1	3984.3	4083.2	4184.7	4511.9	5062.2
32.5°	2883.6	2528.6	3327.5	3543.0	3725.6	3768.8	3799.2	3839.8	3913.3	3961.5	4238.0
35°	83.7	83.7	88.8	101.4	129.3	872.4	3322.4	3662.2	3710.4	3771.3	3822.0
37.5°	40.6	30.4	35.5	38.0	45.7	63.4	91.3	284.1	3162.6	3576.0	3631.8
40°	17.8	17.8	17.8	17.8	20.3	25.4	38.0	63.4	96.4	2543.8	3431.5
42.5°	15.2	15.2	15.2	15.2	15.2	15.2	17.8	22.8	45.7	109.1	1800.7
45°	10.1	10.1	7.6	10.1	10.1	12.7	15.2	15.2	20.3	68.5	124.3
47.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	12.7	15.2	45.7	65.9
50°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	35.5	45.7
52.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	15.2	40.6
55°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	7.6	7.6	10.1	35.5
57.5°	5.1	5.1	5.1	5.1	5.1	7.6	5.1	5.1	7.6	7.6	33.0
60°	5.1	5.1	5.1	5.1	5.1	7.6	7.6	7.6	7.6	7.6	30.4
62.5°	7.6	7.6	5.1	7.6	5.1	5.1	7.6	7.6	7.6	7.6	20.3
65°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	5.1	7.6
67.5°	7.6	7.6	7.6	7.6	5.1	7.6	5.1	7.6	7.6	5.1	5.1
70°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	5.1	5.1	5.1	5.1
72.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	5.1	5.1	5.1	5.1
75°	7.6	7.6	7.6	7.6	7.6	7.6	10.1	10.1	5.1	5.1	5.1
77.5°	7.6	7.6	7.6	7.6	7.6	7.6	12.7	15.2	12.7	12.7	5.1
80°	7.6	7.6	7.6	7.6	7.6	7.6	12.7	12.7	12.7	12.7	17.8
82.5°	7.6	7.6	7.6	7.6	7.6	7.6	10.1	10.1	10.1	10.1	12.7
85°	7.6	7.6	7.6	7.6	7.6	7.6	10.1	10.1	10.1	7.6	10.1
87.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	10.1	7.6	7.6	7.6
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-LD5-136SL-RM-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5
2.5°	8648.4	8562.1	8534.2	8475.9	8470.8	8475.9	8463.2	8445.5	8455.6	8437.9	8422.7
5°	9617.2	9386.4	9236.8	9036.4	8760.0	8699.1	8683.9	8597.6	8567.2	8557.1	8516.5
7.5°	8833.5	9254.5	9508.1	9594.4	9269.7	9193.7	9104.9	9033.9	8965.4	8836.0	8757.4
10°	8486.1	8506.3	8749.8	9033.9	9495.5	9558.9	9607.0	9452.3	9409.2	9079.5	9008.5
12.5°	8404.9	8407.4	8435.3	8607.8	8970.5	9011.0	9181.0	9272.3	9383.9	9447.3	9396.5
15°	8034.6	8240.0	8392.2	8407.4	8440.4	8511.4	8562.1	8879.2	9013.6	9373.7	9353.4
17.5°	7862.2	7928.1	8148.7	8328.8	8298.4	8273.0	8313.6	8356.7	8486.1	8846.2	8841.1
20°	7575.6	7786.1	7905.3	8092.9	8262.9	8270.5	8224.8	8199.5	8148.7	8207.1	8260.3
22.5°	7453.8	7486.8	7710.0	7841.9	8034.6	8103.1	8113.2	8115.8	8087.9	8057.4	8042.2
25°	7441.2	7337.2	7451.3	7616.1	7758.2	7831.7	7915.4	7943.3	7933.2	7933.2	7918.0
27.5°	6089.4	7304.2	7243.3	7352.4	7524.8	7575.6	7618.7	7704.9	7758.2	7796.2	7814.0
30°	5800.2	6018.4	7081.0	7096.2	7271.2	7266.2	7314.3	7385.4	7453.8	7542.6	7565.4
32.5°	5130.7	5665.8	6482.5	6840.1	7022.7	7040.4	7065.8	7086.1	7149.5	7248.4	7334.6
35°	4111.1	5161.1	5554.2	6718.3	6751.3	6786.8	6802.0	6850.2	6870.5	6911.1	6987.2
37.5°	3720.6	4265.9	5328.5	5810.4	6439.4	6469.8	6551.0	6571.2	6604.2	6637.2	6695.5
40°	3494.9	3644.5	4435.8	5189.0	6188.3	6208.6	6236.5	6287.2	6289.7	6327.8	6381.0
42.5°	3314.8	3411.2	3642.0	4955.7	6010.7	6008.2	5942.3	5975.2	5990.5	6031.0	6104.6
45°	2647.8	3200.7	3347.8	4047.7	4785.8	5130.7	5792.6	5683.6	5681.0	5696.3	5774.9
47.5°	134.4	3010.4	3114.4	3340.1	4519.5	4532.2	4618.4	5343.7	5455.3	5419.8	5427.4
50°	91.3	208.0	2901.4	3005.4	3895.6	4210.1	4273.5	4306.4	4724.9	5191.6	5115.5
52.5°	71.0	119.2	1777.9	2789.8	3165.2	3395.9	3804.3	4037.6	4063.0	4250.6	4887.2
55°	63.4	91.3	192.7	2574.2	2690.9	2741.6	2980.0	3388.3	3718.0	3817.0	3824.6
57.5°	55.8	83.7	131.9	1164.1	2447.4	2457.6	2498.1	2640.2	2936.9	3208.3	3515.1
60°	50.7	73.5	104.0	200.4	2224.2	2249.6	2257.2	2295.2	2330.7	2515.9	2868.4
62.5°	30.4	58.3	91.3	144.6	1760.1	2021.3	2018.8	2044.2	2077.1	2097.4	2168.4
65°	25.4	45.7	78.6	121.7	215.6	268.8	1633.3	1815.9	1836.2	1864.1	1876.8
67.5°	22.8	40.6	58.3	96.4	162.3	185.1	213.0	263.8	1440.5	1623.2	1648.5
70°	20.3	27.9	48.2	81.2	131.9	142.0	159.8	182.6	215.6	266.3	1303.6
72.5°	12.7	20.3	33.0	58.3	101.4	114.1	124.3	139.5	154.7	185.1	213.0
75°	5.1	15.2	27.9	43.1	78.6	86.2	93.8	104.0	116.7	137.0	152.2
77.5°	5.1	12.7	22.8	30.4	50.7	58.3	68.5	76.1	86.2	96.4	111.6
80°	17.8	10.1	15.2	22.8	35.5	38.0	43.1	48.2	55.8	63.4	73.5
82.5°	12.7	15.2	17.8	15.2	17.8	22.8	25.4	30.4	33.0	38.0	40.6
85°	10.1	10.1	12.7	12.7	12.7	12.7	12.7	12.7	15.2	17.8	22.8
87.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	10.1	10.1
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-LD5-136SL-RM-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5
2.5°	8422.7	8417.6	8402.4	8402.4	8399.8	8410.0	8417.6	8425.2	8422.7	8437.9	8422.7
5°	8486.1	8473.4	8450.5	8430.3	8422.7	8427.7	8420.1	8427.7	8417.6	8430.3	8407.4
7.5°	8661.1	8617.9	8529.2	8493.7	8448.0	8445.5	8422.7	8417.6	8402.4	8402.4	8374.5
10°	8970.5	8762.5	8737.1	8630.6	8592.6	8407.4	8448.0	8379.5	8371.9	8339.0	8326.3
12.5°	9224.1	9061.8	9013.6	8919.7	8813.2	8437.9	8521.6	8374.5	8366.9	8300.9	8232.4
15°	9229.2	9323.0	9191.1	8932.4	8909.6	8650.9	8481.0	8430.3	8364.3	8166.5	8199.5
17.5°	8932.4	9148.0	9211.4	9155.6	8993.3	8818.3	8579.9	8478.4	8280.6	8191.9	8131.0
20°	8450.5	8668.7	8940.0	8957.8	9059.2	8935.0	8623.0	8458.2	8219.8	8065.1	8014.3
22.5°	8067.6	8227.4	8539.3	8683.9	8808.2	8851.3	8653.4	8410.0	8113.2	7963.6	7933.2
25°	7864.7	7900.2	7994.0	8164.0	8437.9	8635.7	8663.6	8404.9	8250.2	7923.0	7750.6
27.5°	7791.1	7760.7	7722.7	7808.9	8014.3	8255.3	8415.0	8458.2	8072.7	7760.7	7588.2
30°	7603.5	7621.2	7562.9	7532.5	7666.9	7915.4	8199.5	8270.5	7973.7	7651.7	7453.8
32.5°	7372.7	7403.1	7413.3	7360.0	7332.1	7504.6	7811.4	7981.4	7966.1	7496.9	7276.3
35°	7083.5	7169.8	7192.6	7195.1	7149.5	7121.6	7299.1	7651.7	7786.1	7425.9	7106.4
37.5°	6779.2	6804.6	6928.8	6961.8	6961.8	6878.1	7010.0	7291.5	7479.2	7266.2	6898.4
40°	6398.8	6479.9	6596.6	6654.9	6713.3	6720.9	6647.3	6845.1	7154.6	7101.3	6703.1
42.5°	6122.3	6175.6	6246.6	6325.2	6444.4	6474.9	6398.8	6434.3	6756.4	6895.9	6449.5
45°	5800.2	5871.3	5891.5	5977.8	6102.0	6190.8	6188.3	6114.7	6373.4	6545.9	6264.4
47.5°	5470.5	5539.0	5574.5	5617.6	5708.9	5823.1	5886.5	5853.5	5904.2	6241.5	6018.4
50°	5130.7	5168.7	5239.7	5287.9	5348.8	5414.7	5566.9	5597.3	5526.3	5795.2	5747.0
52.5°	4808.6	4821.3	4869.5	4917.7	4998.8	5047.0	5168.7	5260.0	5255.0	5333.6	5445.2
55°	4557.5	4501.7	4511.9	4549.9	4603.2	4676.7	4745.2	4887.2	4935.4	4950.6	5128.2
57.5°	3560.8	4134.0	4184.7	4182.2	4245.6	4278.5	4341.9	4435.8	4608.2	4570.2	4768.0
60°	3236.2	3299.6	3778.9	3834.7	3857.5	3888.0	3964.0	4050.3	4177.1	4258.2	4344.5
62.5°	2467.7	2853.2	2997.8	3421.3	3487.2	3505.0	3555.7	3596.3	3728.2	3913.3	3877.8
65°	1909.7	2074.6	2515.9	2688.4	3048.5	3094.1	3165.2	3208.3	3246.3	3459.3	3469.5
67.5°	1651.1	1676.4	1795.6	2127.9	2356.1	2708.6	2751.8	2789.8	2848.1	3000.3	3094.1
70°	1410.1	1440.5	1473.5	1501.4	1798.2	2031.5	2358.6	2371.3	2409.4	2510.8	2723.9
72.5°	266.3	1204.7	1225.0	1242.7	1275.7	1430.4	1742.4	1996.0	2011.2	2059.4	2254.7
75°	180.1	210.5	289.1	994.2	1027.2	1037.3	1090.6	1407.6	1640.9	1651.1	1737.3
77.5°	129.3	144.6	175.0	208.0	530.1	796.4	809.0	867.4	1108.3	1283.3	1298.5
80°	88.8	98.9	116.7	131.9	162.3	213.0	588.4	606.1	636.6	877.5	923.2
82.5°	50.7	58.3	68.5	83.7	96.4	121.7	157.2	202.9	413.4	441.3	585.9
85°	25.4	27.9	33.0	40.6	48.2	58.3	78.6	96.4	131.9	238.4	246.0
87.5°	12.7	12.7	12.7	12.7	20.3	22.8	27.9	35.5	45.7	68.5	88.8
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-LD5-136SL-RM-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5
2.5°	8425.2	8460.7	8491.1	8498.7	8498.7	8503.8	8511.4	8516.5	8521.6	8526.6	8521.6
5°	8410.0	8448.0	8473.4	8481.0	8481.0	8496.2	8508.9	8524.1	8531.7	8531.7	8526.6
7.5°	8371.9	8399.8	8432.8	8453.1	8455.6	8481.0	8503.8	8501.3	8511.4	8516.5	8529.2
10°	8321.2	8321.2	8377.0	8392.2	8404.9	8432.8	8440.4	8455.6	8491.1	8496.2	8529.2
12.5°	8295.8	8270.5	8336.4	8344.0	8387.1	8351.6	8397.3	8412.5	8377.0	8425.2	8361.8
15°	8181.7	8212.1	8202.0	8224.8	8300.9	8260.3	8384.6	8344.0	8435.3	8326.3	8519.0
17.5°	8087.9	8082.8	8123.4	8143.7	8158.9	8245.1	8278.1	8323.7	8359.2	8328.8	8404.9
20°	8019.4	7978.8	8009.3	8032.1	8085.3	8151.3	8171.6	8103.1	8222.3	8425.2	8473.4
22.5°	7890.1	7862.2	7897.7	7897.7	7978.8	7968.7	8044.8	8001.6	8113.2	8349.1	8595.1
25°	7715.1	7717.6	7755.6	7801.3	7816.5	7930.6	7971.2	8027.0	8166.5	8448.0	8597.6
27.5°	7537.5	7522.3	7545.1	7639.0	7717.6	7801.3	7814.0	8004.2	8194.4	8387.1	8519.0
30°	7360.0	7344.8	7360.0	7428.5	7522.3	7578.1	7717.6	7971.2	8148.7	8280.6	8404.9
32.5°	7169.8	7154.6	7190.1	7240.8	7405.6	7413.3	7689.7	7928.1	8067.6	8164.0	8141.1
35°	6966.9	6946.6	6979.6	7058.2	7210.4	7266.2	7555.3	7732.8	7890.1	7935.7	7829.2
37.5°	6723.4	6687.9	6728.5	6837.5	6997.3	7159.6	7400.6	7606.0	7689.7	7568.0	7441.2
40°	6469.8	6444.4	6515.4	6571.2	6758.9	6984.6	7261.1	7405.6	7352.4	7212.9	7073.4
42.5°	6244.1	6190.8	6254.2	6360.7	6573.8	6829.9	7053.1	7134.3	7007.5	6802.0	6639.7
45°	5967.6	5904.2	5980.3	6122.3	6350.6	6642.3	6817.3	6789.4	6573.8	6396.2	6173.1
47.5°	5678.5	5602.4	5678.5	5848.4	6104.6	6414.0	6540.8	6414.0	6142.6	5919.4	5739.4
50°	5394.5	5305.7	5379.2	5635.4	5886.5	6124.9	6122.3	5876.3	5714.0	5470.5	5313.3
52.5°	5112.9	4986.1	5059.7	5338.7	5589.7	5861.1	5660.8	5432.5	5237.2	5024.2	4973.4
55°	4765.5	4628.5	4727.4	5133.2	5326.0	5485.8	5166.2	4965.8	4773.1	4666.6	4603.2
57.5°	4435.8	4286.1	4372.4	4851.7	4993.7	5034.3	4740.1	4456.1	4341.9	4306.4	4215.1
60°	4095.9	3926.0	4007.2	4560.1	4659.0	4494.1	4205.0	3984.3	3961.5	3890.5	3819.5
62.5°	3771.3	3583.6	3634.3	4197.4	4243.0	3943.8	3677.5	3619.1	3563.3	3492.3	3454.3
65°	3398.5	3203.2	3274.2	3811.9	3768.8	3383.3	3233.6	3220.9	3147.4	3089.1	3144.9
67.5°	3056.1	2825.3	2924.2	3390.9	3195.6	2881.1	2820.2	2789.8	2731.5	2764.4	2178.6
70°	2680.7	2429.7	2564.1	2936.9	2647.8	2439.8	2417.0	2371.3	2373.9	1886.9	1590.2
72.5°	2262.3	2044.2	2239.4	2439.8	2094.9	2034.0	2001.0	1996.0	1610.5	1308.7	1235.1
75°	1894.5	1673.9	1884.4	1960.5	1668.8	1628.2	1625.7	1344.2	1057.6	1009.4	986.6
77.5°	1478.6	1308.7	1509.0	1394.9	1280.8	1235.1	1108.3	831.9	796.4	763.4	286.6
80°	996.7	1009.4	1126.1	961.2	913.0	778.6	613.8	588.4	507.2	202.9	159.8
82.5°	606.1	760.9	717.7	601.1	588.4	423.5	388.0	197.8	147.1	116.7	101.4
85°	314.5	385.5	370.3	327.2	243.5	218.1	121.7	93.8	76.1	58.3	48.2
87.5°	106.5	142.0	137.0	109.1	83.7	65.9	43.1	35.5	25.4	20.3	17.8
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-LD5-136SL-RM-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5
2.5°	8516.5	8516.5	8511.4	8516.5	8519.0	8514.0	8514.0	8519.0	8521.6	8524.1	8536.8
5°	8529.2	8534.2	8541.9	8557.1	8559.6	8590.0	8602.7	8610.3	8617.9	8620.5	8602.7
7.5°	8557.1	8574.8	8590.0	8587.5	8569.8	8521.6	8506.3	8493.7	8516.5	8574.8	8643.3
10°	8582.4	8501.3	8349.1	8557.1	8493.7	8552.0	8724.5	8762.5	8879.2	9044.0	9092.2
12.5°	8407.4	8630.6	8678.8	8445.5	8876.6	8716.8	8907.1	9074.5	9122.6	9290.0	9188.6
15°	8595.1	8704.2	8777.7	9011.0	8985.7	9122.6	9175.9	9142.9	9150.5	9193.7	9307.8
17.5°	8592.6	8810.7	8858.9	9016.1	9122.6	9125.2	9110.0	9094.7	9135.3	9168.3	9099.8
20°	8739.7	8810.7	8904.5	8967.9	8988.2	9013.6	9061.8	9023.7	8947.6	8874.1	8843.7
22.5°	8666.1	8825.9	8907.1	8917.2	8904.5	8825.9	8754.9	8648.4	8612.9	8574.8	8587.5
25°	8681.3	8754.9	8744.7	8704.2	8650.9	8503.8	8468.3	8422.7	8354.2	8189.3	8039.7
27.5°	8572.3	8534.2	8488.6	8389.7	8293.3	8214.7	8125.9	7978.8	7857.1	7679.6	7613.6
30°	8389.7	8237.5	8125.9	8067.6	7973.7	7841.9	7707.4	7527.4	7372.7	7337.2	7304.2
32.5°	8039.7	7890.1	7798.8	7656.7	7496.9	7339.7	7185.0	7114.0	7081.0	7086.1	7055.7
35°	7682.1	7550.2	7413.3	7200.2	7081.0	6923.8	6868.0	6852.8	6822.3	6789.4	6753.8
37.5°	7301.7	7147.0	6941.5	6814.7	6695.5	6632.1	6604.2	6581.4	6528.1	6469.8	6429.2
40°	6933.9	6654.9	6540.8	6416.5	6381.0	6353.1	6312.6	6256.8	6183.2	6173.1	6155.3
42.5°	6441.9	6241.5	6142.6	6117.3	6074.1	6026.0	5990.5	5929.6	5899.2	5919.4	5934.7
45°	5975.2	5873.8	5840.8	5810.4	5729.2	5660.8	5637.9	5617.6	5643.0	5754.6	5488.3
47.5°	5597.3	5556.8	5516.2	5465.5	5389.4	5338.7	5361.5	5381.8	5404.6	4585.4	4184.7
50°	5270.2	5214.4	5151.0	5095.2	5049.5	5044.5	5163.7	4806.1	4024.9	4004.6	3598.8
52.5°	4912.6	4828.9	4790.8	4757.9	4778.2	4854.2	4017.3	3728.2	3576.0	3106.8	2898.9
55°	4527.1	4453.5	4453.5	4484.0	4374.9	3545.6	3502.5	3028.2	2741.6	2660.5	2627.5
57.5°	4141.6	4134.0	4177.1	3819.5	3218.4	3086.5	2594.5	2490.5	2444.9	2434.7	2381.5
60°	3789.1	3860.1	3231.1	2972.4	2584.4	2330.7	2259.7	2247.1	2198.9	2181.1	2132.9
62.5°	3507.5	2909.0	2708.6	2211.5	2082.2	2049.2	2011.2	1993.4	1950.3	1722.1	504.7
65°	2533.6	2394.2	1942.7	1859.0	1848.9	1800.7	1785.5	1605.4	377.9	253.6	215.6
67.5°	1912.3	1696.7	1638.4	1623.2	1575.0	1478.6	438.8	251.1	215.6	187.7	164.9
70°	1468.4	1430.4	1387.3	1351.8	398.2	248.5	215.6	182.6	157.2	139.5	126.8
72.5°	1202.1	1176.8	684.8	261.2	213.0	180.1	159.8	139.5	121.7	111.6	101.4
75°	940.9	261.2	215.6	180.1	154.7	131.9	116.7	104.0	93.8	86.2	78.6
77.5°	213.0	172.5	147.1	124.3	111.6	98.9	88.8	76.1	68.5	60.9	50.7
80°	131.9	114.1	96.4	88.8	76.1	63.4	55.8	50.7	40.6	38.0	33.0
82.5°	86.2	68.5	60.9	50.7	40.6	38.0	33.0	25.4	22.8	20.3	17.8
85°	38.0	33.0	27.9	22.8	17.8	15.2	12.7	10.1	10.1	10.1	10.1
87.5°	12.7	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	5.1	5.1
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-LD5-136SL-RM-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5
2.5°	8541.9	8587.5	8630.6	8617.9	8572.3	8501.3	8481.0	8453.1	8473.4	8516.5	8534.2
5°	8602.7	8577.4	8668.7	8803.1	9021.2	9041.5	9193.7	9229.2	9350.9	9427.0	9424.4
7.5°	8689.0	9049.1	9198.7	9361.0	9434.6	9416.8	9439.7	9421.9	9394.0	9381.3	9366.1
10°	9127.7	9401.6	9457.4	9457.4	9343.3	9188.6	9122.6	9008.5	8780.3	8785.3	8747.3
12.5°	9383.9	9480.2	9348.4	9236.8	8777.7	8600.2	8407.4	8316.1	8262.9	8181.7	8212.1
15°	9249.4	9112.5	9033.9	8673.7	8392.2	8072.7	8077.7	8021.9	7963.6	7968.7	7930.6
17.5°	9051.6	8942.6	8384.6	8136.1	7999.1	7874.8	7852.0	7778.5	7740.4	7727.7	7725.2
20°	8780.3	8387.1	7971.2	7910.3	7745.5	7603.5	7580.6	7603.5	7720.1	7512.2	6807.1
22.5°	8463.2	7897.7	7775.9	7603.5	7491.9	7436.1	7575.6	6941.5	5982.8	6099.5	5975.2
25°	7925.6	7679.6	7471.6	7339.7	7327.0	6984.6	5820.5	5698.8	5082.5	4752.8	4382.5
27.5°	7532.5	7425.9	7207.8	7185.0	7020.1	5711.5	5105.3	4435.8	4189.8	4151.7	4070.6
30°	7294.1	7141.9	7010.0	6434.3	5602.4	4598.1	4095.9	4002.1	3959.0	3913.3	3842.3
32.5°	7007.5	6862.9	6926.3	5409.7	4466.2	3959.0	3857.5	3789.1	3710.4	3680.0	3423.8
35°	6715.8	6649.9	5412.2	4547.4	3839.8	3718.0	3642.0	3570.9	2840.5	687.3	233.3
37.5°	6403.9	6388.6	4864.4	3773.8	3596.3	3482.2	3266.6	674.6	159.8	109.1	81.2
40°	6160.4	4866.9	3844.8	3538.0	3393.4	3213.3	451.4	111.6	71.0	43.1	27.9
42.5°	5998.1	4377.4	3441.6	3319.9	3005.4	332.2	114.1	48.2	27.9	22.8	17.8
45°	4623.5	3456.8	3215.9	3089.1	380.4	114.1	65.9	22.8	17.8	15.2	10.1
47.5°	4265.9	3139.8	2997.8	674.6	126.8	60.9	45.7	15.2	10.1	10.1	10.1
50°	3231.1	2901.4	2386.5	164.9	81.2	43.1	33.0	10.1	10.1	10.1	7.6
52.5°	2832.9	2678.2	256.2	109.1	63.4	33.0	20.3	7.6	7.6	7.6	7.6
55°	2589.4	1699.2	152.2	83.7	53.3	30.4	12.7	7.6	7.6	7.6	5.1
57.5°	2368.8	228.3	111.6	71.0	48.2	27.9	7.6	7.6	7.6	7.6	5.1
60°	2008.7	164.9	91.3	63.4	45.7	25.4	7.6	7.6	7.6	7.6	7.6
62.5°	261.2	129.3	78.6	55.8	33.0	20.3	5.1	7.6	7.6	7.6	7.6
65°	190.2	101.4	71.0	38.0	20.3	7.6	5.1	7.6	7.6	7.6	7.6
67.5°	147.1	83.7	53.3	33.0	17.8	5.1	5.1	7.6	7.6	7.6	7.6
70°	116.7	71.0	43.1	27.9	15.2	5.1	5.1	7.6	7.6	7.6	7.6
72.5°	91.3	50.7	30.4	15.2	10.1	5.1	5.1	7.6	7.6	7.6	7.6
75°	68.5	40.6	22.8	12.7	5.1	5.1	5.1	7.6	7.6	7.6	7.6
77.5°	45.7	25.4	17.8	10.1	10.1	10.1	12.7	12.7	7.6	7.6	7.6
80°	30.4	17.8	12.7	12.7	12.7	10.1	12.7	12.7	7.6	12.7	7.6
82.5°	15.2	12.7	12.7	10.1	10.1	7.6	10.1	10.1	10.1	10.1	7.6
85°	10.1	7.6	7.6	7.6	7.6	7.6	7.6	7.6	10.1	10.1	7.6
87.5°	5.1	5.1	5.1	5.1	7.6	7.6	7.6	7.6	10.1	10.1	7.6
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-LD5-136SL-RM-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5
2.5°	8511.4	8519.0	8498.7	8607.8	8552.0	8557.1	8579.9	8521.6	8534.2	8493.7	8465.8
5°	9434.6	9449.8	9465.0	9470.1	9480.2	9492.9	9477.7	9470.1	9454.9	9404.2	9350.9
7.5°	9290.0	9272.3	9264.7	9274.8	9292.6	9300.2	9287.5	9305.2	9371.2	9399.1	9416.8
10°	8529.2	8448.0	8503.8	8496.2	8432.8	8645.8	8587.5	8620.5	8643.3	8876.6	9018.7
12.5°	8166.5	8217.2	8120.8	8072.7	8136.1	8179.2	8222.3	8131.0	8257.8	8199.5	8387.1
15°	7862.2	7831.7	7821.6	7824.1	7811.4	7872.3	7887.5	7907.8	7925.6	8004.2	8034.6
17.5°	7725.2	7775.9	7796.2	7811.4	7786.1	7758.2	7730.3	7689.7	7702.4	7682.1	7740.4
20°	6332.8	6162.9	6152.8	6251.7	6142.6	6203.5	6350.6	7334.6	7301.7	7684.6	7555.3
22.5°	5285.4	5125.6	4988.7	4869.5	5039.4	5110.4	5384.3	5693.7	6195.9	6117.3	6662.5
25°	4316.6	4258.2	4222.7	4205.0	4217.7	4212.6	4273.5	4418.0	4646.3	5184.0	5878.9
27.5°	4037.6	4009.7	3997.0	3956.4	3986.9	3976.7	4024.9	4055.4	4123.8	4177.1	4402.8
30°	3817.0	3784.0	3761.2	3718.0	3748.5	3751.0	3766.2	3844.8	3872.7	3918.4	3989.4
32.5°	1394.9	821.7	771.0	733.0	801.4	1044.9	1833.7	3205.7	3657.2	3692.7	3773.8
35°	137.0	114.1	101.4	101.4	104.0	114.1	152.2	400.7	733.0	2832.9	3545.6
37.5°	53.3	45.7	38.0	35.5	38.0	43.1	58.3	76.1	104.0	215.6	961.2
40°	22.8	20.3	17.8	17.8	17.8	17.8	20.3	25.4	38.0	71.0	111.6
42.5°	15.2	12.7	12.7	12.7	12.7	12.7	12.7	12.7	17.8	22.8	45.7
45°	10.1	7.6	7.6	7.6	7.6	7.6	7.6	7.6	10.1	12.7	20.3
47.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	10.1
50°	7.6	7.6	7.6	7.6	5.1	7.6	5.1	7.6	7.6	7.6	7.6
52.5°	7.6	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	7.6	7.6
55°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	7.6
57.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
60°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
62.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	7.6	7.6	5.1
65°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	7.6	5.1
67.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
70°	7.6	7.6	5.1	7.6	5.1	5.1	7.6	7.6	7.6	5.1	5.1
72.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	15.2	15.2	10.1
75°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	12.7	15.2	12.7
77.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	12.7	12.7	12.7
80°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	10.1	10.1	10.1
82.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	10.1	10.1	10.1
85°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
87.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
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-LD5-136SL-RM-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5
2.5°	8417.6	8415.0	8468.3	8508.9	8493.7	8508.9	8526.6	8529.2	8534.2	8514.0	8506.3
5°	9249.4	9170.8	9018.7	8909.6	8782.8	8552.0	8437.9	8450.5	8453.1	8445.5	8455.6
7.5°	9409.2	9401.6	9348.4	9325.5	9239.3	9074.5	8810.7	8765.0	8653.4	8582.4	8524.1
10°	9008.5	9191.1	9239.3	9320.5	9371.2	9340.7	9117.6	9084.6	9013.6	8932.4	8950.2
12.5°	8574.8	8724.5	8732.1	9173.4	9272.3	9282.4	9196.2	9241.8	9252.0	9069.4	8962.9
15°	8042.2	8113.2	8262.9	8673.7	8973.0	9160.7	9216.5	9241.8	9117.6	9110.0	9066.8
17.5°	7808.9	7854.5	7923.0	8153.8	8607.8	8884.2	9120.1	9102.3	9150.5	9115.0	9006.0
20°	7514.7	7552.7	7674.5	7791.1	8014.3	8382.1	8823.4	8856.3	8919.7	8912.1	8942.6
22.5°	7509.6	7375.2	7395.5	7486.8	7720.1	8049.8	8519.0	8628.1	8668.7	8696.6	8729.5
25°	5957.5	7025.2	7220.5	7278.8	7431.0	7623.8	8176.6	8217.2	8293.3	8417.6	8508.9
27.5°	5161.1	5886.5	6667.6	7073.4	7169.8	7329.6	7659.3	7720.1	7978.8	8009.3	8151.3
30°	4073.1	4633.6	5800.2	6776.7	6936.5	7048.0	7281.4	7403.1	7514.7	7636.4	7786.1
32.5°	3832.2	3920.9	4567.7	5607.5	6850.2	6766.5	6939.0	7012.5	7134.3	7240.8	7349.8
35°	3611.5	3672.4	3809.3	4593.0	5579.6	6535.7	6652.4	6700.6	6769.1	6850.2	6928.8
37.5°	3380.7	3472.0	3565.9	3776.4	5161.1	6353.1	6350.6	6406.4	6447.0	6515.4	6581.4
40°	613.8	3188.0	3340.1	3477.1	4002.1	5067.3	6066.5	6091.9	6119.8	6162.9	6231.4
42.5°	98.9	532.6	3129.6	3261.5	3411.2	4537.2	5937.2	5833.2	5815.5	5845.9	5906.8
45°	50.7	129.3	629.0	3046.0	3180.4	3619.1	4854.2	5653.1	5635.4	5577.1	5589.7
47.5°	38.0	81.2	154.7	1052.5	2977.5	3106.8	4478.9	4430.7	4768.0	5414.7	5315.8
50°	33.0	55.8	91.3	215.6	2630.0	2860.8	3449.2	4030.0	4207.5	4230.3	5006.4
52.5°	30.4	38.0	65.9	139.5	552.9	2645.2	2805.0	3007.9	3307.2	3948.8	3933.6
55°	27.9	35.5	55.8	93.8	192.7	2384.0	2548.9	2586.9	2650.3	2957.2	3363.0
57.5°	15.2	33.0	53.3	81.2	144.6	436.2	2313.0	2343.4	2394.2	2406.8	2551.4
60°	7.6	30.4	48.2	71.0	106.5	202.9	2079.7	2115.2	2145.6	2150.7	2196.3
62.5°	5.1	27.9	40.6	65.9	88.8	144.6	492.0	1004.3	1909.7	1909.7	1963.0
65°	5.1	20.3	25.4	43.1	81.2	119.2	208.0	240.9	469.2	1154.0	1722.1
67.5°	5.1	7.6	22.8	35.5	60.9	91.3	152.2	177.5	213.0	243.5	451.4
70°	5.1	5.1	20.3	22.8	38.0	68.5	109.1	124.3	144.6	164.9	190.2
72.5°	5.1	5.1	17.8	17.8	25.4	45.7	83.7	91.3	104.0	116.7	134.4
75°	12.7	10.1	15.2	15.2	17.8	35.5	63.4	71.0	76.1	86.2	98.9
77.5°	12.7	12.7	12.7	12.7	12.7	22.8	40.6	45.7	53.3	58.3	68.5
80°	10.1	10.1	10.1	12.7	12.7	15.2	25.4	27.9	30.4	38.0	40.6
82.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	15.2	17.8	22.8
85°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	10.1	10.1	10.1	10.1
87.5°	7.6	7.6	7.6	5.1	5.1	7.6	7.6	7.6	7.6	7.6	7.6
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-LD5-136SL-RM-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5	8450.5
2.5°	8503.8	8488.6	8475.9	8483.5	8460.7	8450.5	8458.2	8460.7	8465.8	8478.4	8481.0
5°	8481.0	8475.9	8498.7	8511.4	8506.3	8511.4	8511.4	8501.3	8486.1	8496.2	8473.4
7.5°	8465.8	8432.8	8407.4	8412.5	8387.1	8417.6	8445.5	8486.1	8498.7	8498.7	8473.4
10°	8727.0	8691.5	8549.5	8453.1	8389.7	8333.9	8465.8	8331.3	8394.8	8153.8	8430.3
12.5°	8942.6	8990.8	8927.4	8663.6	8617.9	8450.5	8546.9	8382.1	8333.9	8057.4	8146.2
15°	9028.8	8937.5	8917.2	8843.7	8744.7	8696.6	8437.9	8410.0	8331.3	8361.8	8245.1
17.5°	8952.7	8998.4	8937.5	8889.3	8787.9	8673.7	8519.0	8382.1	8273.0	8029.5	8235.0
20°	8879.2	8940.0	8757.4	8787.9	8798.0	8666.1	8585.0	8470.8	8333.9	8105.6	7928.1
22.5°	8757.4	8714.3	8729.5	8683.9	8645.8	8663.6	8552.0	8473.4	8242.6	8138.6	7897.7
25°	8559.6	8544.4	8585.0	8579.9	8488.6	8458.2	8402.4	8318.7	8227.4	8060.0	7862.2
27.5°	8237.5	8316.1	8387.1	8420.1	8371.9	8290.8	8260.3	8212.1	8148.7	7978.8	7831.7
30°	7897.7	7986.4	8067.6	8138.6	8181.7	8146.2	8118.3	8090.4	7994.0	7882.4	7717.6
32.5°	7509.6	7626.3	7737.9	7824.1	7918.0	7945.9	7925.6	7902.7	7821.6	7720.1	7588.2
35°	7060.7	7220.5	7382.8	7537.5	7578.1	7644.0	7710.0	7671.9	7628.8	7527.4	7405.6
37.5°	6680.3	6794.4	6911.1	7106.4	7248.4	7332.1	7448.8	7464.0	7390.4	7342.2	7182.5
40°	6287.2	6391.2	6561.1	6675.2	6870.5	6966.9	7091.2	7147.0	7129.2	7101.3	6961.8
42.5°	5977.8	6028.5	6140.1	6241.5	6434.3	6632.1	6741.2	6802.0	6865.4	6842.6	6771.6
45°	5648.1	5693.7	5731.8	5820.5	6008.2	6183.2	6317.6	6408.9	6523.1	6576.3	6490.1
47.5°	5320.9	5333.6	5379.2	5452.8	5564.4	5698.8	5924.5	6061.5	6168.0	6272.0	6216.2
50°	5069.8	5024.2	5031.8	5077.4	5168.7	5300.6	5462.9	5655.7	5777.4	5904.2	5916.9
52.5°	4430.7	4801.0	4712.2	4737.6	4785.8	4849.2	5019.1	5209.3	5358.9	5468.0	5577.1
55°	3718.0	3791.6	4504.3	4402.8	4433.2	4489.0	4567.7	4757.9	4902.4	5054.6	5206.8
57.5°	2883.6	3431.5	3459.3	4118.8	4103.5	4108.6	4174.6	4283.6	4428.2	4618.4	4747.7
60°	2242.0	2472.8	2921.7	3149.9	3728.2	3748.5	3786.5	3849.9	3974.2	4154.3	4359.7
62.5°	1978.2	2008.7	2168.4	2510.8	2886.2	3340.1	3421.3	3431.5	3487.2	3667.3	3905.7
65°	1737.3	1757.6	1805.8	1841.3	2155.8	2594.5	2985.1	3048.5	3084.0	3190.5	3393.4
67.5°	1197.1	1514.1	1557.2	1582.6	1613.0	1815.9	2300.3	2622.4	2663.0	2756.8	2934.4
70°	230.8	479.3	1311.2	1339.1	1354.3	1400.0	1478.6	1990.9	2259.7	2348.5	2429.7
72.5°	157.2	185.1	223.2	527.5	1115.9	1141.3	1159.0	1225.0	1679.0	1937.6	1980.8
75°	114.1	126.8	149.6	185.1	228.3	743.1	920.6	953.6	986.6	1361.9	1580.0
77.5°	81.2	91.3	101.4	119.2	139.5	180.1	258.7	712.7	745.6	763.4	1077.9
80°	45.7	55.8	68.5	78.6	88.8	101.4	131.9	164.9	367.7	537.7	565.6
82.5°	25.4	30.4	35.5	43.1	48.2	60.9	73.5	88.8	116.7	172.5	365.2
85°	12.7	12.7	12.7	17.8	20.3	27.9	33.0	38.0	53.3	73.5	101.4
87.5°	7.6	7.6	10.1	10.1	10.1	12.7	12.7	12.7	15.2	22.8	33.0
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-LD5-136SL-RM-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	356°	357°	358°	359°	360°
0°	8450.5	8450.5	8450.5	8450.5	8450.5
2.5°	8483.5	8475.9	8475.9	8506.3	8498.7
5°	8468.3	8460.7	8458.2	8491.1	8475.9
7.5°	8455.6	8427.7	8420.1	8450.5	8437.9
10°	8404.9	8384.6	8397.3	8387.1	8382.1
12.5°	8318.7	8306.0	8252.7	8257.8	8300.9
15°	8164.0	8214.7	8123.4	8204.5	8222.3
17.5°	7879.9	7994.0	8082.8	8131.0	8138.6
20°	8006.7	8044.8	7999.1	8001.6	8032.1
22.5°	7841.9	7859.6	7872.3	7857.1	7923.0
25°	7578.1	7509.6	7656.7	7687.2	7793.7
27.5°	7496.9	7441.2	7509.6	7504.6	7593.3
30°	7431.0	7250.9	7281.4	7329.6	7438.6
32.5°	7337.2	7053.1	7022.7	7129.2	7250.9
35°	7172.3	6903.5	6832.5	6900.9	7083.5
37.5°	7032.8	6695.5	6553.5	6644.8	6883.2
40°	6824.9	6533.2	6312.6	6393.7	6675.2
42.5°	6576.3	6393.7	6053.9	6109.7	6431.8
45°	6325.2	6162.9	5802.8	5830.7	6213.6
47.5°	6069.1	5919.4	5541.6	5546.6	5934.7
50°	5818.0	5620.2	5308.2	5219.5	5637.9
52.5°	5490.8	5308.2	5072.4	4927.8	5356.4
55°	5181.4	4976.0	4803.5	4580.3	5036.9
57.5°	4879.6	4651.4	4534.7	4248.1	4674.2
60°	4466.2	4357.2	4184.7	3910.8	4347.0
62.5°	4042.7	4007.2	3832.2	3548.1	3943.8
65°	3548.1	3631.8	3451.7	3208.3	3525.3
67.5°	3081.5	3231.1	3033.3	2883.6	3122.0
70°	2584.4	2756.8	2645.2	2592.0	2693.4
72.5°	2094.9	2262.3	2272.4	2234.4	2267.3
75°	1618.1	1803.2	1904.7	1846.3	1853.9
77.5°	1227.5	1316.3	1427.9	1473.5	1463.4
80°	758.3	913.0	1004.3	1098.2	1065.2
82.5°	383.0	512.3	623.9	725.3	677.2
85°	159.8	205.4	286.6	377.9	362.7
87.5°	48.2	81.2	86.2	121.7	114.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)