

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-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33524)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-136SL-RM-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

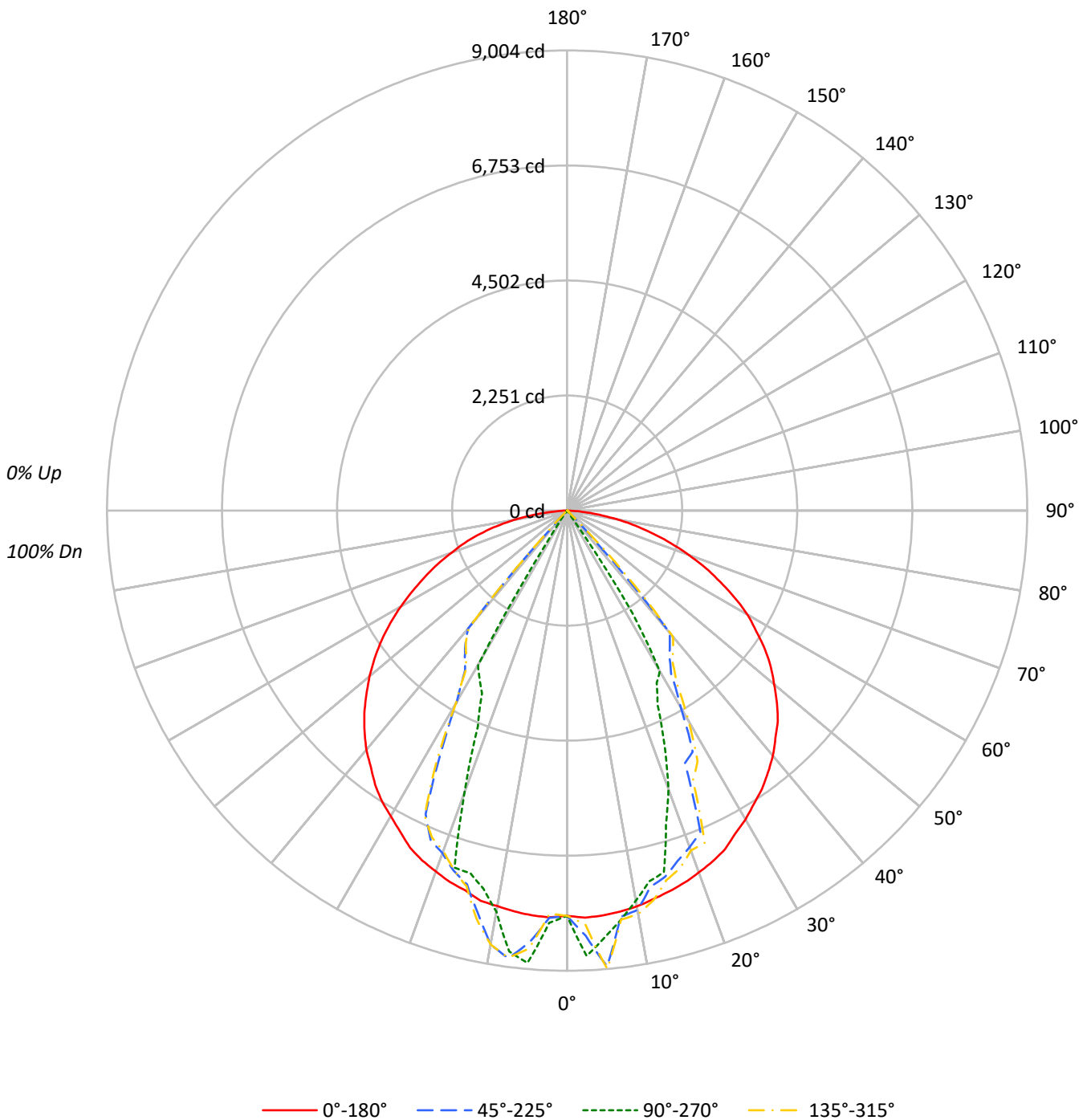
Lumens per Lamp: N/A
Luminaire Lumens: 11273.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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



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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°	32033	32033	32033	32033
5°	32208	32946	32198	34889
10°	32175	29812	32156	30673
15°	32133	27826	32053	27899
20°	32218	21917	32126	22187
25°	32362	15861	32204	14968
30°	32269	13914	31927	13375
35°	32425	307	31949	372
40°	32604	67	31824	67
45°	32798	39	31566	29
50°	32640	31	31143	31
55°	32561	22	30561	22
60°	32088	24	29579	24
65°	30595	38	28415	25
70°	28623	41	27248	41
75°	25657	46	26079	46
80°	21359	53	22580	53
85°	13382	62	13665	62



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	795.4	7.1
10°-20°	2169.6	19.2
20°-30°	2760.7	24.5
30°-40°	2332.1	20.7
40°-50°	1524.6	13.5
50°-60°	960.7	8.5
60°-70°	511.4	4.5
70°-80°	186.4	1.7
80°-90°	32.1	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5725.7	50.8
0°-40°	8057.8	71.5
0°-60°	10543.1	93.5
0°-90°	11273.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11273.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7928	7928	7928	7928	7928	
5°	7952	8390	7949	8884	7952	756
15°	7714	7321	7695	7340	7714	2181
25°	7312	4180	7276	3945	7312	3362
35°	6646	78	6548	95	6646	4157
45°	5829	10	5610	7	5829	4483
55°	4725	5	4435	5	4725	4210
65°	3307	7	3072	5	3307	3275
75°	1739	7	1768	7	1739	1846
85°	340	7	347	7	340	430
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0
2.5°	7973.2	7978.0	7980.4	7985.1	7992.3	7994.6	7999.4	7994.6	7994.6	7994.6	7994.6
5°	7951.8	7961.3	7968.5	7978.0	7994.6	7997.0	8016.1	8018.4	8027.9	8047.0	8061.3
7.5°	7916.1	7925.6	7939.9	7963.7	7987.5	8013.7	8047.0	8082.7	8132.6	8180.2	8239.7
10°	7863.8	7875.7	7892.3	7913.7	8030.3	8047.0	8120.7	8223.1	8251.6	8401.5	8513.3
12.5°	7787.6	7828.1	7870.9	7889.9	8001.8	8177.8	8425.3	8375.3	8320.6	8810.8	8803.6
15°	7713.9	7768.6	7747.2	7901.8	8004.2	8311.1	8206.4	8430.1	8839.3	8739.4	8744.1
17.5°	7635.4	7647.3	7766.2	7894.7	8077.9	8235.0	8363.4	8670.4	8751.3	8758.4	8670.4
20°	7535.4	7592.5	7766.2	7882.8	8192.1	8265.9	8544.3	8701.3	8668.0	8587.1	8437.2
22.5°	7433.1	7606.8	7782.9	7947.1	8163.6	8361.1	8499.1	8572.8	8399.1	8080.3	7909.0
25°	7311.8	7414.1	7644.9	7885.2	8156.4	8270.6	8351.5	8232.6	8006.5	7721.0	7433.1
27.5°	7123.8	7288.0	7583.0	7854.3	8099.3	8237.3	8106.5	7820.9	7456.9	7268.9	7138.1
30°	6978.7	7192.8	7435.5	7697.2	7951.8	8032.7	7699.6	7373.6	7123.8	6935.8	6907.3
32.5°	6802.6	7107.1	7337.9	7587.8	7801.9	7694.8	7371.2	6950.1	6743.1	6671.7	6700.3
35°	6645.5	6876.3	7178.5	7423.6	7578.3	7337.9	6826.4	6564.6	6464.7	6505.2	6452.8
37.5°	6457.6	6762.1	7040.5	7252.3	7199.9	6838.3	6405.2	6238.7	6250.6	6217.3	6117.3
40°	6262.5	6552.7	6843.0	7042.9	6859.7	6307.7	6019.8	5984.1	5991.2	5884.1	5741.4
42.5°	6034.0	6298.2	6588.4	6769.3	6374.3	5943.6	5748.5	5753.3	5691.4	5541.5	5465.4
45°	5829.4	6072.1	6374.3	6391.0	5905.6	5546.3	5489.2	5427.3	5289.3	5239.3	5182.2
47.5°	5567.7	5836.6	6086.4	5996.0	5446.3	5222.7	5179.9	5044.2	4975.2	4937.2	4889.6
50°	5289.3	5560.6	5789.0	5532.0	5013.3	4961.0	4820.6	4713.5	4665.9	4625.5	4582.6
52.5°	5025.2	5248.9	5482.0	5039.5	4680.2	4630.2	4470.8	4408.9	4361.4	4316.2	4306.6
55°	4725.4	4922.9	5082.3	4570.7	4361.4	4244.8	4130.6	4087.7	4042.5	4021.1	4056.8
57.5°	4385.2	4608.8	4585.0	4109.1	4016.4	3847.4	3804.6	3776.0	3742.7	3757.0	3459.6
60°	4078.2	4249.5	4132.9	3771.3	3614.2	3500.0	3462.0	3442.9	3462.0	3171.7	2788.6
62.5°	3699.9	3892.6	3657.1	3376.3	3209.8	3155.0	3121.7	3147.9	2869.5	2550.7	2457.9
65°	3307.3	3516.7	3169.3	2952.8	2848.1	2800.5	2798.1	2576.8	2303.2	2179.5	2179.5
67.5°	2929.0	3145.5	2698.2	2517.4	2476.9	2481.7	2343.7	2008.2	1932.0	1848.8	1608.4
70°	2526.9	2717.2	2229.5	2120.0	2096.2	2079.6	1744.1	1653.7	1563.2	1342.0	1322.9
72.5°	2127.1	2219.9	1791.7	1765.5	1760.7	1463.3	1396.7	1242.0	1137.3	1111.2	1099.3
75°	1739.3	1710.8	1415.7	1439.5	1213.5	1108.8	1001.7	911.3	897.0	887.5	221.3
77.5°	1372.9	1230.1	1115.9	970.8	868.5	737.6	716.2	701.9	461.6	166.6	135.6
80°	999.3	797.1	742.4	630.5	537.7	516.3	528.2	161.8	128.5	107.1	92.8
82.5°	635.3	509.2	416.4	364.0	354.5	154.7	114.2	92.8	80.9	69.0	57.1
85°	340.2	226.0	209.4	176.1	104.7	71.4	59.5	45.2	38.1	30.9	28.6
87.5°	107.1	90.4	73.8	59.5	35.7	23.8	19.0	16.7	14.3	11.9	11.9
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°	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0
2.5°	7989.9	7994.6	7992.3	7999.4	7999.4	8008.9	8016.1	8023.2	8037.5	8044.6	8099.3
5°	8092.2	8104.1	8139.8	8173.1	8213.5	8225.4	8294.4	8311.1	8392.0	8401.5	8668.0
7.5°	8320.6	8365.8	8451.5	8537.1	8622.8	8677.5	8772.7	8832.2	8896.4	8953.5	9165.3
10°	8596.6	8672.8	8756.0	8841.7	8891.7	8996.3	9053.5	9063.0	9046.3	8953.5	8610.9
12.5°	8867.9	8944.0	8908.3	8925.0	8984.5	8798.9	8825.0	8691.8	8784.6	8325.4	7985.1
15°	8829.8	8825.0	8737.0	8451.5	8499.1	8144.5	8001.8	7892.3	7980.4	7932.8	7880.4
17.5°	8715.6	8499.1	8346.8	8004.2	7859.0	7759.1	7761.5	7763.8	7721.0	7766.2	7633.0
20°	8232.6	7989.9	7763.8	7642.5	7599.7	7528.3	7564.0	7528.3	7530.7	7544.9	7340.3
22.5°	7590.1	7516.4	7385.5	7423.6	7409.3	7473.6	7426.0	7352.2	7376.0	7268.9	7114.3
25°	7330.8	7245.1	7240.4	7254.7	7233.2	7204.7	7161.9	7050.0	7042.9	7009.6	6938.2
27.5°	7069.1	7073.8	7088.1	7045.3	6969.1	6912.0	6847.8	6793.1	6814.5	6776.4	6678.9
30°	6888.2	6885.9	6800.2	6762.1	6621.7	6624.1	6607.5	6574.2	6552.7	6555.1	6493.3
32.5°	6631.3	6557.5	6460.0	6412.4	6400.5	6357.6	6324.3	6331.5	6348.1	6288.6	6352.9
35°	6367.2	6214.9	6200.6	6160.2	6122.1	6093.5	6105.4	6057.8	6055.5	6048.3	5524.9
37.5°	6012.6	5938.9	5931.7	5888.9	5862.7	5855.6	5810.4	5817.5	5838.9	5877.0	4711.1
40°	5720.0	5653.4	5636.7	5634.3	5577.2	5572.5	5584.4	5629.6	5660.5	5422.6	4489.8
42.5°	5405.9	5410.7	5358.3	5325.0	5332.1	5353.6	5410.7	5253.6	4551.7	4337.6	4104.4
45°	5137.0	5113.2	5084.7	5075.2	5137.0	5094.2	4466.1	4121.0	4037.8	4028.3	3373.9
47.5°	4856.3	4849.1	4837.2	4844.4	4492.2	4004.5	3861.7	3816.5	3830.8	3821.2	2898.1
50°	4573.1	4582.6	4582.6	4002.1	3673.7	3592.8	3604.7	3645.2	3393.0	3166.9	2700.6
52.5°	4328.0	4254.3	3645.2	3435.8	3362.0	3397.7	3312.1	2995.6	2767.2	2633.9	2498.3
55°	3873.6	3331.1	3195.5	3162.2	3188.3	2871.9	2676.8	2472.2	2412.7	2398.4	2319.9
57.5°	3048.0	2938.5	2950.4	2817.2	2515.0	2336.5	2258.0	2229.5	2203.3	2184.2	190.3
60°	2695.8	2726.7	2495.9	2210.4	2089.1	2065.3	2046.2	2020.1	2015.3	1982.0	121.3
62.5°	2467.4	2170.0	1970.1	1898.7	1870.2	1863.0	1827.3	1815.4	1541.8	211.8	90.4
65°	1860.7	1739.3	1701.2	1684.6	1653.7	1653.7	1372.9	216.5	176.1	152.3	80.9
67.5°	1518.0	1508.5	1489.5	1468.1	999.3	209.4	183.2	159.4	138.0	121.3	71.4
70°	1284.9	1280.1	1165.9	214.1	178.5	157.0	138.0	123.7	114.2	102.3	64.2
72.5°	1054.1	214.1	180.8	157.0	135.6	123.7	111.8	99.9	90.4	83.3	52.3
75°	164.2	145.1	128.5	116.6	107.1	95.2	85.7	78.5	76.1	66.6	35.7
77.5°	119.0	102.3	92.8	83.3	73.8	66.6	57.1	50.0	45.2	38.1	26.2
80°	83.3	73.8	66.6	54.7	47.6	40.4	35.7	30.9	28.6	23.8	11.9
82.5°	47.6	40.4	35.7	28.6	26.2	21.4	19.0	16.7	16.7	11.9	11.9
85°	21.4	21.4	16.7	14.3	11.9	11.9	11.9	9.5	9.5	7.1	7.1
87.5°	9.5	9.5	9.5	9.5	9.5	7.1	7.1	7.1	7.1	7.1	4.8
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°	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0
2.5°	8175.5	8206.4	8265.9	8327.7	8258.7	8506.2	8487.2	8570.4	8615.7	8637.1	8687.0
5°	8903.6	9041.6	9086.8	8951.1	8872.6	8791.7	8608.5	8470.5	8487.2	8442.0	8277.8
7.5°	8889.3	8594.2	8196.9	8016.1	8001.8	7980.4	8037.5	8070.8	8075.5	8073.2	8068.4
10°	8137.4	7985.1	7958.9	7935.2	7944.7	7856.6	7816.2	7702.0	7763.8	7730.5	7742.4
12.5°	7909.0	7873.3	7732.9	7537.8	7654.4	7566.4	7516.4	7549.7	7511.6	7475.9	7464.0
15°	7773.4	7542.6	7464.0	7416.5	7383.1	7364.1	7380.8	7342.7	7330.8	7323.7	7340.3
17.5°	7492.6	7399.8	7314.1	7188.0	7190.4	7183.3	7230.9	7302.2	7307.0	6940.6	6609.9
20°	7271.3	7195.2	7085.7	7007.2	7114.3	6923.9	6188.7	5838.9	5784.2	5784.2	5793.7
22.5°	7095.2	6926.3	6933.4	6809.7	5808.0	5603.4	5608.1	5629.6	5532.0	5198.9	5163.2
25°	6854.9	6828.8	6307.7	5451.1	5458.2	5298.8	5053.8	4708.7	4335.2	4335.2	4273.3
27.5°	6674.1	6119.7	5358.3	5322.6	4787.3	4449.4	4240.0	3923.6	3880.7	3840.3	3845.0
30°	6519.4	5177.5	5196.5	4449.4	4054.4	3773.7	3757.0	3704.7	3678.5	3671.3	3645.2
32.5°	5153.7	5041.9	4349.5	3787.9	3633.3	3588.1	3566.7	3507.2	3504.8	3459.6	3145.5
35°	4832.5	4425.6	3640.4	3488.1	3442.9	3400.1	3364.4	2258.0	266.5	107.1	92.8
37.5°	4466.1	3697.5	3366.8	3297.8	3255.0	2405.5	240.3	83.3	59.5	42.8	38.1
40°	3785.6	3302.5	3197.9	3121.7	1287.2	83.3	52.3	40.4	23.8	21.4	19.0
42.5°	3193.1	3112.2	3000.4	913.7	95.2	40.4	26.2	19.0	16.7	16.7	14.3
45°	2988.5	2917.1	1208.7	90.4	59.5	19.0	16.7	16.7	14.3	9.5	9.5
47.5°	2798.1	2462.6	109.5	57.1	38.1	16.7	14.3	9.5	9.5	9.5	7.1
50°	2595.9	135.6	76.1	42.8	23.8	9.5	9.5	9.5	9.5	7.1	7.1
52.5°	485.4	95.2	61.9	38.1	11.9	9.5	9.5	9.5	7.1	7.1	7.1
55°	114.2	76.1	57.1	33.3	9.5	9.5	9.5	7.1	7.1	7.1	4.8
57.5°	85.7	57.1	45.2	30.9	9.5	7.1	7.1	7.1	7.1	7.1	4.8
60°	71.4	40.4	35.7	28.6	7.1	7.1	7.1	7.1	7.1	7.1	4.8
62.5°	50.0	33.3	26.2	21.4	7.1	7.1	7.1	7.1	7.1	7.1	7.1
65°	40.4	26.2	21.4	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
67.5°	35.7	21.4	14.3	4.8	7.1	7.1	7.1	7.1	7.1	7.1	7.1
70°	28.6	7.1	7.1	4.8	7.1	7.1	7.1	7.1	7.1	7.1	7.1
72.5°	23.8	7.1	4.8	4.8	7.1	7.1	7.1	7.1	7.1	7.1	7.1
75°	23.8	11.9	4.8	4.8	7.1	7.1	9.5	9.5	7.1	7.1	7.1
77.5°	16.7	11.9	4.8	4.8	7.1	7.1	9.5	9.5	7.1	7.1	7.1
80°	9.5	11.9	4.8	7.1	7.1	14.3	16.7	9.5	7.1	7.1	7.1
82.5°	9.5	11.9	14.3	14.3	7.1	11.9	14.3	11.9	9.5	7.1	7.1
85°	9.5	7.1	9.5	11.9	7.1	11.9	11.9	9.5	9.5	7.1	7.1
87.5°	4.8	7.1	7.1	9.5	9.5	9.5	11.9	9.5	9.5	9.5	7.1
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0
2.5°	8710.8	8720.3	8570.4	8518.1	8563.3	8553.8	8513.3	8363.4	8346.8	8246.9	8101.7
5°	8325.4	8389.6	8311.1	8446.7	8382.5	8446.7	8641.8	8732.2	8879.8	8970.2	9003.5
7.5°	8056.5	8070.8	8070.8	8082.7	8094.6	8097.0	8082.7	8073.2	8032.7	7982.7	8073.2
10°	7730.5	7747.2	7775.7	7771.0	7768.6	7818.6	7830.5	7932.8	7928.0	7947.1	8016.1
12.5°	7561.6	7433.1	7549.7	7518.8	7561.6	7495.0	7618.7	7597.3	7604.4	7661.5	7809.0
15°	7280.8	7321.3	7349.8	7349.8	7366.5	7352.2	7337.9	7435.5	7495.0	7497.4	7487.8
17.5°	6740.7	6433.8	6747.9	6667.0	7311.8	7328.4	7273.7	7228.5	7228.5	7264.2	7340.3
20°	5786.6	5793.7	5796.1	5827.0	5865.1	5862.7	5865.1	6802.6	7247.5	7145.2	7076.2
22.5°	5072.8	4984.8	5148.9	5137.0	5341.7	5567.7	5784.2	5762.8	5777.1	6438.5	7033.4
25°	4066.3	4180.5	4087.7	4128.2	4359.0	4627.8	4794.4	5229.8	5703.3	5670.0	5824.7
27.5°	3828.4	3797.5	3840.3	3840.3	3871.2	3906.9	3999.7	4244.8	4665.9	5108.5	5527.2
30°	3602.3	3628.5	3633.3	3676.1	3699.9	3723.7	3738.0	3830.8	3925.9	4232.9	4749.2
32.5°	2705.3	2372.2	3121.7	3324.0	3495.3	3535.7	3564.3	3602.3	3671.3	3716.6	3975.9
35°	78.5	78.5	83.3	95.2	121.3	818.5	3117.0	3435.8	3481.0	3538.1	3585.7
37.5°	38.1	28.6	33.3	35.7	42.8	59.5	85.7	266.5	2967.1	3354.9	3407.2
40°	16.7	16.7	16.7	16.7	19.0	23.8	35.7	59.5	90.4	2386.5	3219.3
42.5°	14.3	14.3	14.3	14.3	14.3	14.3	16.7	21.4	42.8	102.3	1689.3
45°	9.5	9.5	7.1	9.5	9.5	11.9	14.3	14.3	19.0	64.2	116.6
47.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	11.9	14.3	42.8	61.9
50°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	33.3	42.8
52.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	14.3	38.1
55°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	7.1	7.1	9.5	33.3
57.5°	4.8	4.8	4.8	4.8	4.8	7.1	4.8	4.8	7.1	7.1	30.9
60°	4.8	4.8	4.8	4.8	4.8	7.1	7.1	7.1	7.1	7.1	28.6
62.5°	7.1	7.1	4.8	7.1	4.8	4.8	7.1	7.1	7.1	7.1	19.0
65°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	4.8	7.1
67.5°	7.1	7.1	7.1	7.1	4.8	7.1	4.8	7.1	7.1	4.8	4.8
70°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	4.8	4.8	4.8	4.8
72.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	4.8	4.8	4.8	4.8
75°	7.1	7.1	7.1	7.1	7.1	7.1	9.5	9.5	4.8	4.8	4.8
77.5°	7.1	7.1	7.1	7.1	7.1	7.1	11.9	14.3	11.9	11.9	4.8
80°	7.1	7.1	7.1	7.1	7.1	7.1	11.9	11.9	11.9	11.9	16.7
82.5°	7.1	7.1	7.1	7.1	7.1	7.1	9.5	9.5	9.5	9.5	11.9
85°	7.1	7.1	7.1	7.1	7.1	7.1	9.5	9.5	9.5	7.1	9.5
87.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	9.5	7.1	7.1	7.1
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0
2.5°	8113.6	8032.7	8006.5	7951.8	7947.1	7951.8	7939.9	7923.3	7932.8	7916.1	7901.8
5°	9022.5	8806.0	8665.6	8477.6	8218.3	8161.2	8146.9	8066.0	8037.5	8027.9	7989.9
7.5°	8287.3	8682.3	8920.2	9001.1	8696.5	8625.2	8541.9	8475.3	8411.0	8289.7	8215.9
10°	7961.3	7980.4	8208.8	8475.3	8908.3	8967.8	9013.0	8867.9	8827.4	8518.1	8451.5
12.5°	7885.2	7887.6	7913.7	8075.5	8415.8	8453.9	8613.3	8698.9	8803.6	8863.1	8815.5
15°	7537.8	7730.5	7873.3	7887.6	7918.5	7985.1	8032.7	8330.1	8456.2	8794.1	8775.1
17.5°	7376.0	7437.9	7644.9	7813.8	7785.3	7761.5	7799.5	7840.0	7961.3	8299.2	8294.4
20°	7107.1	7304.6	7416.5	7592.5	7751.9	7759.1	7716.3	7692.5	7644.9	7699.6	7749.6
22.5°	6992.9	7023.9	7233.2	7357.0	7537.8	7602.0	7611.6	7613.9	7587.8	7559.2	7544.9
25°	6981.0	6883.5	6990.6	7145.2	7278.5	7347.5	7426.0	7452.1	7442.6	7442.6	7428.4
27.5°	5712.8	6852.5	6795.4	6897.8	7059.6	7107.1	7147.6	7228.5	7278.5	7314.1	7330.8
30°	5441.6	5646.2	6643.2	6657.4	6821.6	6816.9	6862.1	6928.7	6992.9	7076.2	7097.6
32.5°	4813.4	5315.5	6081.6	6417.1	6588.4	6605.1	6628.9	6647.9	6707.4	6800.2	6881.1
35°	3856.9	4842.0	5210.8	6302.9	6333.8	6367.2	6381.4	6426.6	6445.7	6483.7	6555.1
37.5°	3490.5	4002.1	4999.0	5451.1	6041.2	6069.7	6145.9	6164.9	6195.8	6226.8	6281.5
40°	3278.8	3419.1	4161.5	4868.2	5805.6	5824.7	5850.8	5898.4	5900.8	5936.5	5986.5
42.5°	3109.8	3200.2	3416.8	4649.3	5639.1	5636.7	5574.8	5605.8	5620.0	5658.1	5727.1
45°	2484.0	3002.7	3140.8	3797.5	4489.8	4813.4	5434.5	5332.1	5329.8	5344.0	5417.8
47.5°	126.1	2824.3	2921.9	3133.6	4240.0	4251.9	4332.8	5013.3	5118.0	5084.7	5091.8
50°	85.7	195.1	2722.0	2819.5	3654.7	3949.7	4009.2	4040.1	4432.7	4870.5	4799.2
52.5°	66.6	111.8	1667.9	2617.3	2969.4	3186.0	3569.0	3787.9	3811.7	3987.8	4585.0
55°	59.5	85.7	180.8	2415.0	2524.5	2572.1	2795.7	3178.8	3488.1	3580.9	3588.1
57.5°	52.3	78.5	123.7	1092.1	2296.1	2305.6	2343.7	2476.9	2755.3	3009.9	3297.8
60°	47.6	69.0	97.6	188.0	2086.7	2110.5	2117.6	2153.3	2186.6	2360.3	2691.1
62.5°	28.6	54.7	85.7	135.6	1651.3	1896.3	1894.0	1917.8	1948.7	1967.7	2034.4
65°	23.8	42.8	73.8	114.2	202.2	252.2	1532.3	1703.6	1722.7	1748.8	1760.7
67.5°	21.4	38.1	54.7	90.4	152.3	173.7	199.9	247.5	1351.5	1522.8	1546.6
70°	19.0	26.2	45.2	76.1	123.7	133.2	149.9	171.3	202.2	249.8	1223.0
72.5°	11.9	19.0	30.9	54.7	95.2	107.1	116.6	130.9	145.1	173.7	199.9
75°	4.8	14.3	26.2	40.4	73.8	80.9	88.0	97.6	109.5	128.5	142.8
77.5°	4.8	11.9	21.4	28.6	47.6	54.7	64.2	71.4	80.9	90.4	104.7
80°	16.7	9.5	14.3	21.4	33.3	35.7	40.4	45.2	52.3	59.5	69.0
82.5°	11.9	14.3	16.7	14.3	16.7	21.4	23.8	28.6	30.9	35.7	38.1
85°	9.5	9.5	11.9	11.9	11.9	11.9	11.9	11.9	14.3	16.7	21.4
87.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0
2.5°	7901.8	7897.1	7882.8	7882.8	7880.4	7889.9	7897.1	7904.2	7901.8	7916.1	7901.8
5°	7961.3	7949.4	7928.0	7909.0	7901.8	7906.6	7899.5	7906.6	7897.1	7909.0	7887.6
7.5°	8125.5	8085.1	8001.8	7968.5	7925.6	7923.3	7901.8	7897.1	7882.8	7882.8	7856.6
10°	8415.8	8220.7	8196.9	8097.0	8061.3	7887.6	7925.6	7861.4	7854.3	7823.3	7811.4
12.5°	8653.7	8501.4	8456.2	8368.2	8268.3	7916.1	7994.6	7856.6	7849.5	7787.6	7723.4
15°	8658.5	8746.5	8622.8	8380.1	8358.7	8116.0	7956.6	7909.0	7847.1	7661.5	7692.5
17.5°	8380.1	8582.3	8641.8	8589.5	8437.2	8273.0	8049.4	7954.2	7768.6	7685.3	7628.2
20°	7928.0	8132.6	8387.2	8403.9	8499.1	8382.5	8089.8	7935.2	7711.5	7566.4	7518.8
22.5°	7568.7	7718.6	8011.3	8146.9	8263.5	8304.0	8118.4	7889.9	7611.6	7471.2	7442.6
25°	7378.4	7411.7	7499.7	7659.1	7916.1	8101.7	8127.9	7885.2	7740.0	7433.1	7271.3
27.5°	7309.4	7280.8	7245.1	7326.0	7518.8	7744.8	7894.7	7935.2	7573.5	7280.8	7119.0
30°	7133.3	7150.0	7095.2	7066.7	7192.8	7426.0	7692.5	7759.1	7480.7	7178.5	6992.9
32.5°	6916.8	6945.3	6954.9	6904.9	6878.7	7040.5	7328.4	7487.8	7473.6	7033.4	6826.4
35°	6645.5	6726.4	6747.9	6750.2	6707.4	6681.2	6847.8	7178.5	7304.6	6966.8	6667.0
37.5°	6360.0	6383.8	6500.4	6531.3	6531.3	6452.8	6576.5	6840.7	7016.7	6816.9	6471.9
40°	6003.1	6079.3	6188.7	6243.4	6298.2	6305.3	6236.3	6421.9	6712.2	6662.2	6288.6
42.5°	5743.8	5793.7	5860.4	5934.1	6045.9	6074.5	6003.1	6036.4	6338.6	6469.5	6050.7
45°	5441.6	5508.2	5527.2	5608.1	5724.7	5808.0	5805.6	5736.6	5979.3	6141.1	5877.0
47.5°	5132.3	5196.5	5229.8	5270.3	5355.9	5463.0	5522.5	5491.6	5539.1	5855.6	5646.2
50°	4813.4	4849.1	4915.8	4961.0	5018.1	5079.9	5222.7	5251.2	5184.6	5436.8	5391.6
52.5°	4511.3	4523.2	4568.4	4613.6	4689.7	4734.9	4849.1	4934.8	4930.0	5003.8	5108.5
55°	4275.7	4223.4	4232.9	4268.6	4318.5	4387.5	4451.8	4585.0	4630.2	4644.5	4811.1
57.5°	3340.6	3878.4	3925.9	3923.6	3983.0	4014.0	4073.5	4161.5	4323.3	4287.6	4473.2
60°	3036.1	3095.5	3545.2	3597.6	3619.0	3647.6	3718.9	3799.8	3918.8	3994.9	4075.8
62.5°	2315.1	2676.8	2812.4	3209.8	3271.6	3288.3	3335.9	3373.9	3497.7	3671.3	3638.0
65°	1791.7	1946.3	2360.3	2522.1	2860.0	2902.8	2969.4	3009.9	3045.6	3245.4	3255.0
67.5°	1549.0	1572.8	1684.6	1996.3	2210.4	2541.2	2581.6	2617.3	2672.0	2814.8	2902.8
70°	1322.9	1351.5	1382.4	1408.6	1687.0	1905.9	2212.8	2224.7	2260.4	2355.6	2555.4
72.5°	249.8	1130.2	1149.2	1165.9	1196.8	1342.0	1634.6	1872.6	1886.8	1932.0	2115.2
75°	168.9	197.5	271.2	932.7	963.6	973.2	1023.1	1320.5	1539.4	1549.0	1629.9
77.5°	121.3	135.6	164.2	195.1	497.3	747.1	759.0	813.7	1039.8	1204.0	1218.2
80°	83.3	92.8	109.5	123.7	152.3	199.9	552.0	568.7	597.2	823.3	866.1
82.5°	47.6	54.7	64.2	78.5	90.4	114.2	147.5	190.3	387.8	414.0	549.6
85°	23.8	26.2	30.9	38.1	45.2	54.7	73.8	90.4	123.7	223.7	230.8
87.5°	11.9	11.9	11.9	11.9	19.0	21.4	26.2	33.3	42.8	64.2	83.3
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-LD5-136SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0
2.5°	7904.2	7937.5	7966.1	7973.2	7973.2	7978.0	7985.1	7989.9	7994.6	7999.4	7994.6
5°	7889.9	7925.6	7949.4	7956.6	7956.6	7970.8	7982.7	7997.0	8004.2	8004.2	7999.4
7.5°	7854.3	7880.4	7911.4	7930.4	7932.8	7956.6	7978.0	7975.6	7985.1	7989.9	8001.8
10°	7806.7	7806.7	7859.0	7873.3	7885.2	7911.4	7918.5	7932.8	7966.1	7970.8	8001.8
12.5°	7782.9	7759.1	7820.9	7828.1	7868.5	7835.2	7878.1	7892.3	7859.0	7904.2	7844.7
15°	7675.8	7704.4	7694.8	7716.3	7787.6	7749.6	7866.2	7828.1	7913.7	7811.4	7992.3
17.5°	7587.8	7583.0	7621.1	7640.1	7654.4	7735.3	7766.2	7809.0	7842.4	7813.8	7885.2
20°	7523.5	7485.5	7514.0	7535.4	7585.4	7647.3	7666.3	7602.0	7713.9	7904.2	7949.4
22.5°	7402.2	7376.0	7409.3	7409.3	7485.5	7475.9	7547.3	7506.9	7611.6	7832.8	8063.6
25°	7238.0	7240.4	7276.1	7318.9	7333.2	7440.2	7478.3	7530.7	7661.5	7925.6	8066.0
27.5°	7071.4	7057.2	7078.6	7166.6	7240.4	7318.9	7330.8	7509.3	7687.7	7868.5	7992.3
30°	6904.9	6890.6	6904.9	6969.1	7057.2	7109.5	7240.4	7478.3	7644.9	7768.6	7885.2
32.5°	6726.4	6712.2	6745.5	6793.1	6947.7	6954.9	7214.2	7437.9	7568.7	7659.1	7637.7
35°	6536.1	6517.1	6548.0	6621.7	6764.5	6816.9	7088.1	7254.7	7402.2	7445.0	7345.1
37.5°	6307.7	6274.4	6312.4	6414.7	6564.6	6716.9	6943.0	7135.7	7214.2	7100.0	6981.0
40°	6069.7	6045.9	6112.6	6164.9	6341.0	6552.7	6812.1	6947.7	6897.8	6766.9	6636.0
42.5°	5858.0	5808.0	5867.5	5967.4	6167.3	6407.6	6617.0	6693.1	6574.2	6381.4	6229.2
45°	5598.6	5539.1	5610.5	5743.8	5957.9	6231.5	6395.7	6369.5	6167.3	6000.7	5791.4
47.5°	5327.4	5256.0	5327.4	5486.8	5727.1	6017.4	6136.4	6017.4	5762.8	5553.4	5384.5
50°	5060.9	4977.6	5046.6	5286.9	5522.5	5746.1	5743.8	5513.0	5360.7	5132.3	4984.8
52.5°	4796.8	4677.8	4746.8	5008.5	5244.1	5498.7	5310.7	5096.6	4913.4	4713.5	4665.9
55°	4470.8	4342.3	4435.1	4815.8	4996.6	5146.5	4846.7	4658.8	4477.9	4378.0	4318.5
57.5°	4161.5	4021.1	4102.0	4551.7	4685.0	4723.0	4447.0	4180.5	4073.5	4040.1	3954.5
60°	3842.7	3683.2	3759.4	4278.1	4370.9	4216.2	3945.0	3738.0	3716.6	3649.9	3583.3
62.5°	3538.1	3362.0	3409.6	3937.8	3980.7	3699.9	3450.1	3395.3	3343.0	3276.4	3240.7
65°	3188.3	3005.1	3071.7	3576.2	3535.7	3174.1	3033.7	3021.8	2952.8	2898.1	2950.4
67.5°	2867.1	2650.6	2743.4	3181.2	2998.0	2702.9	2645.8	2617.3	2562.6	2593.5	2043.9
70°	2515.0	2279.4	2405.5	2755.3	2484.0	2288.9	2267.5	2224.7	2227.1	1770.2	1491.9
72.5°	2122.4	1917.8	2101.0	2288.9	1965.3	1908.2	1877.3	1872.6	1510.9	1227.7	1158.7
75°	1777.4	1570.4	1767.9	1839.2	1565.6	1527.5	1525.2	1261.1	992.2	947.0	925.6
77.5°	1387.2	1227.7	1415.7	1308.6	1201.6	1158.7	1039.8	780.4	747.1	716.2	268.9
80°	935.1	947.0	1056.4	901.8	856.6	730.5	575.8	552.0	475.9	190.3	149.9
82.5°	568.7	713.8	673.4	563.9	552.0	397.4	364.0	185.6	138.0	109.5	95.2
85°	295.0	361.7	347.4	306.9	228.4	204.6	114.2	88.0	71.4	54.7	45.2
87.5°	99.9	133.2	128.5	102.3	78.5	61.9	40.4	33.3	23.8	19.0	16.7
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-LD5-136SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0
2.5°	7989.9	7989.9	7985.1	7989.9	7992.3	7987.5	7987.5	7992.3	7994.6	7997.0	8008.9
5°	8001.8	8006.5	8013.7	8027.9	8030.3	8058.9	8070.8	8077.9	8085.1	8087.4	8070.8
7.5°	8027.9	8044.6	8058.9	8056.5	8039.8	7994.6	7980.4	7968.5	7989.9	8044.6	8108.8
10°	8051.7	7975.6	7832.8	8027.9	7968.5	8023.2	8185.0	8220.7	8330.1	8484.8	8530.0
12.5°	7887.6	8097.0	8142.2	7923.3	8327.7	8177.8	8356.3	8513.3	8558.5	8715.6	8620.4
15°	8063.6	8166.0	8235.0	8453.9	8430.1	8558.5	8608.5	8577.6	8584.7	8625.2	8732.2
17.5°	8061.3	8265.9	8311.1	8458.6	8558.5	8560.9	8546.6	8532.4	8570.4	8601.4	8537.1
20°	8199.3	8265.9	8353.9	8413.4	8432.4	8456.2	8501.4	8465.8	8394.4	8325.4	8296.8
22.5°	8130.3	8280.2	8356.3	8365.8	8353.9	8280.2	8213.5	8113.6	8080.3	8044.6	8056.5
25°	8144.5	8213.5	8204.0	8166.0	8116.0	7978.0	7944.7	7901.8	7837.6	7682.9	7542.6
27.5°	8042.2	8006.5	7963.7	7870.9	7780.5	7706.7	7623.5	7485.5	7371.2	7204.7	7142.8
30°	7870.9	7728.2	7623.5	7568.7	7480.7	7357.0	7230.9	7061.9	6916.8	6883.5	6852.5
32.5°	7542.6	7402.2	7316.5	7183.3	7033.4	6885.9	6740.7	6674.1	6643.2	6647.9	6619.4
35°	7207.1	7083.3	6954.9	6755.0	6643.2	6495.6	6443.3	6429.0	6400.5	6369.5	6336.2
37.5°	6850.2	6705.0	6512.3	6393.3	6281.5	6222.0	6195.8	6174.4	6124.5	6069.7	6031.7
40°	6505.2	6243.4	6136.4	6019.8	5986.5	5960.3	5922.2	5869.9	5800.9	5791.4	5774.7
42.5°	6043.6	5855.6	5762.8	5739.0	5698.6	5653.4	5620.0	5562.9	5534.4	5553.4	5567.7
45°	5605.8	5510.6	5479.7	5451.1	5375.0	5310.7	5289.3	5270.3	5294.1	5398.8	5148.9
47.5°	5251.2	5213.2	5175.1	5127.5	5056.1	5008.5	5030.0	5049.0	5070.4	4301.9	3925.9
50°	4944.3	4892.0	4832.5	4780.1	4737.3	4732.5	4844.4	4508.9	3776.0	3757.0	3376.3
52.5°	4608.8	4530.3	4494.6	4463.7	4482.7	4554.1	3768.9	3497.7	3354.9	2914.7	2719.6
55°	4247.2	4178.2	4178.2	4206.7	4104.4	3326.3	3285.9	2841.0	2572.1	2495.9	2465.0
57.5°	3885.5	3878.4	3918.8	3583.3	3019.4	2895.7	2434.1	2336.5	2293.7	2284.2	2234.2
60°	3554.8	3621.4	3031.3	2788.6	2424.6	2186.6	2120.0	2108.1	2062.9	2046.2	2001.0
62.5°	3290.7	2729.1	2541.2	2074.8	1953.5	1922.5	1886.8	1870.2	1829.7	1615.6	473.5
65°	2377.0	2246.1	1822.6	1744.1	1734.6	1689.3	1675.1	1506.1	354.5	237.9	202.2
67.5°	1794.0	1591.8	1537.1	1522.8	1477.6	1387.2	411.6	235.6	202.2	176.1	154.7
70°	1377.6	1342.0	1301.5	1268.2	373.6	233.2	202.2	171.3	147.5	130.9	119.0
72.5°	1127.8	1104.0	642.4	245.1	199.9	168.9	149.9	130.9	114.2	104.7	95.2
75°	882.7	245.1	202.2	168.9	145.1	123.7	109.5	97.6	88.0	80.9	73.8
77.5°	199.9	161.8	138.0	116.6	104.7	92.8	83.3	71.4	64.2	57.1	47.6
80°	123.7	107.1	90.4	83.3	71.4	59.5	52.3	47.6	38.1	35.7	30.9
82.5°	80.9	64.2	57.1	47.6	38.1	35.7	30.9	23.8	21.4	19.0	16.7
85°	35.7	30.9	26.2	21.4	16.7	14.3	11.9	9.5	9.5	9.5	9.5
87.5°	11.9	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	4.8	4.8
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0
2.5°	8013.7	8056.5	8097.0	8085.1	8042.2	7975.6	7956.6	7930.4	7949.4	7989.9	8006.5
5°	8070.8	8047.0	8132.6	8258.7	8463.4	8482.4	8625.2	8658.5	8772.7	8844.1	8841.7
7.5°	8151.7	8489.5	8629.9	8782.2	8851.2	8834.6	8856.0	8839.3	8813.1	8801.2	8787.0
10°	8563.3	8820.3	8872.6	8872.6	8765.6	8620.4	8558.5	8451.5	8237.3	8242.1	8206.4
12.5°	8803.6	8894.0	8770.3	8665.6	8235.0	8068.4	7887.6	7801.9	7751.9	7675.8	7704.4
15°	8677.5	8549.0	8475.3	8137.4	7873.3	7573.5	7578.3	7525.9	7471.2	7475.9	7440.2
17.5°	8491.9	8389.6	7866.2	7633.0	7504.5	7387.9	7366.5	7297.5	7261.8	7249.9	7247.5
20°	8237.3	7868.5	7478.3	7421.2	7266.6	7133.3	7111.9	7133.3	7242.8	7047.7	6386.2
22.5°	7939.9	7409.3	7295.1	7133.3	7028.6	6976.3	7107.1	6512.3	5612.9	5722.4	5605.8
25°	7435.5	7204.7	7009.6	6885.9	6874.0	6552.7	5460.6	5346.4	4768.2	4458.9	4111.5
27.5°	7066.7	6966.8	6762.1	6740.7	6586.1	5358.3	4789.6	4161.5	3930.7	3895.0	3818.9
30°	6843.0	6700.3	6576.5	6036.4	5256.0	4313.8	3842.7	3754.6	3714.2	3671.3	3604.7
32.5°	6574.2	6438.5	6498.0	5075.2	4190.0	3714.2	3619.0	3554.8	3481.0	3452.4	3212.1
35°	6300.5	6238.7	5077.5	4266.2	3602.3	3488.1	3416.8	3350.1	2664.9	644.8	218.9
37.5°	6007.9	5993.6	4563.6	3540.5	3373.9	3266.9	3064.6	632.9	149.9	102.3	76.1
40°	5779.5	4566.0	3607.1	3319.2	3183.6	3014.6	423.5	104.7	66.6	40.4	26.2
42.5°	5627.2	4106.8	3228.8	3114.6	2819.5	311.7	107.1	45.2	26.2	21.4	16.7
45°	4337.6	3243.1	3017.0	2898.1	356.9	107.1	61.9	21.4	16.7	14.3	9.5
47.5°	4002.1	2945.6	2812.4	632.9	119.0	57.1	42.8	14.3	9.5	9.5	9.5
50°	3031.3	2722.0	2239.0	154.7	76.1	40.4	30.9	9.5	9.5	9.5	7.1
52.5°	2657.7	2512.6	240.3	102.3	59.5	30.9	19.0	7.1	7.1	7.1	7.1
55°	2429.3	1594.2	142.8	78.5	50.0	28.6	11.9	7.1	7.1	7.1	4.8
57.5°	2222.3	214.1	104.7	66.6	45.2	26.2	7.1	7.1	7.1	7.1	4.8
60°	1884.5	154.7	85.7	59.5	42.8	23.8	7.1	7.1	7.1	7.1	7.1
62.5°	245.1	121.3	73.8	52.3	30.9	19.0	4.8	7.1	7.1	7.1	7.1
65°	178.5	95.2	66.6	35.7	19.0	7.1	4.8	7.1	7.1	7.1	7.1
67.5°	138.0	78.5	50.0	30.9	16.7	4.8	4.8	7.1	7.1	7.1	7.1
70°	109.5	66.6	40.4	26.2	14.3	4.8	4.8	7.1	7.1	7.1	7.1
72.5°	85.7	47.6	28.6	14.3	9.5	4.8	4.8	7.1	7.1	7.1	7.1
75°	64.2	38.1	21.4	11.9	4.8	4.8	4.8	7.1	7.1	7.1	7.1
77.5°	42.8	23.8	16.7	9.5	9.5	9.5	11.9	11.9	7.1	7.1	7.1
80°	28.6	16.7	11.9	11.9	11.9	9.5	11.9	11.9	7.1	11.9	7.1
82.5°	14.3	11.9	11.9	9.5	9.5	7.1	9.5	9.5	9.5	9.5	7.1
85°	9.5	7.1	7.1	7.1	7.1	7.1	7.1	7.1	9.5	9.5	7.1
87.5°	4.8	4.8	4.8	4.8	7.1	7.1	7.1	7.1	9.5	9.5	7.1
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0
2.5°	7985.1	7992.3	7973.2	8075.5	8023.2	8027.9	8049.4	7994.6	8006.5	7968.5	7942.3
5°	8851.2	8865.5	8879.8	8884.5	8894.0	8905.9	8891.7	8884.5	8870.2	8822.7	8772.7
7.5°	8715.6	8698.9	8691.8	8701.3	8718.0	8725.1	8713.2	8729.9	8791.7	8817.9	8834.6
10°	8001.8	7925.6	7978.0	7970.8	7911.4	8111.2	8056.5	8087.4	8108.8	8327.7	8461.0
12.5°	7661.5	7709.1	7618.7	7573.5	7633.0	7673.4	7713.9	7628.2	7747.2	7692.5	7868.5
15°	7376.0	7347.5	7337.9	7340.3	7328.4	7385.5	7399.8	7418.8	7435.5	7509.3	7537.8
17.5°	7247.5	7295.1	7314.1	7328.4	7304.6	7278.5	7252.3	7214.2	7226.1	7207.1	7261.8
20°	5941.3	5781.8	5772.3	5865.1	5762.8	5819.9	5957.9	6881.1	6850.2	7209.5	7088.1
22.5°	4958.6	4808.7	4680.2	4568.4	4727.8	4794.4	5051.4	5341.7	5812.8	5739.0	6250.6
25°	4049.7	3994.9	3961.6	3945.0	3956.9	3952.1	4009.2	4144.8	4359.0	4863.4	5515.3
27.5°	3787.9	3761.8	3749.9	3711.8	3740.3	3730.8	3776.0	3804.6	3868.8	3918.8	4130.6
30°	3580.9	3550.0	3528.6	3488.1	3516.7	3519.1	3533.3	3607.1	3633.3	3676.1	3742.7
32.5°	1308.6	770.9	723.3	687.6	751.9	980.3	1720.3	3007.5	3431.0	3464.3	3540.5
35°	128.5	107.1	95.2	95.2	97.6	107.1	142.8	375.9	687.6	2657.7	3326.3
37.5°	50.0	42.8	35.7	33.3	35.7	40.4	54.7	71.4	97.6	202.2	901.8
40°	21.4	19.0	16.7	16.7	16.7	16.7	19.0	23.8	35.7	66.6	104.7
42.5°	14.3	11.9	11.9	11.9	11.9	11.9	11.9	11.9	16.7	21.4	42.8
45°	9.5	7.1	7.1	7.1	7.1	7.1	7.1	7.1	9.5	11.9	19.0
47.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	9.5
50°	7.1	7.1	7.1	7.1	4.8	7.1	4.8	7.1	7.1	7.1	7.1
52.5°	7.1	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	7.1	7.1
55°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	7.1
57.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
60°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
62.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	7.1	7.1	4.8
65°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	7.1	4.8
67.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
70°	7.1	7.1	4.8	7.1	4.8	4.8	7.1	7.1	7.1	4.8	4.8
72.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	14.3	14.3	9.5
75°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	11.9	14.3	11.9
77.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	11.9	11.9	11.9
80°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	9.5	9.5	9.5
82.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	9.5	9.5	9.5
85°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
87.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0
2.5°	7897.1	7894.7	7944.7	7982.7	7968.5	7982.7	7999.4	8001.8	8006.5	7987.5	7980.4
5°	8677.5	8603.8	8461.0	8358.7	8239.7	8023.2	7916.1	7928.0	7930.4	7923.3	7932.8
7.5°	8827.4	8820.3	8770.3	8748.9	8668.0	8513.3	8265.9	8223.1	8118.4	8051.7	7997.0
10°	8451.5	8622.8	8668.0	8744.1	8791.7	8763.2	8553.8	8522.9	8456.2	8380.1	8396.8
12.5°	8044.6	8185.0	8192.1	8606.1	8698.9	8708.4	8627.5	8670.4	8679.9	8508.6	8408.6
15°	7544.9	7611.6	7751.9	8137.4	8418.2	8594.2	8646.6	8670.4	8553.8	8546.6	8506.2
17.5°	7326.0	7368.9	7433.1	7649.6	8075.5	8334.9	8556.2	8539.5	8584.7	8551.4	8449.1
20°	7050.0	7085.7	7199.9	7309.4	7518.8	7863.8	8277.8	8308.7	8368.2	8361.1	8389.6
22.5°	7045.3	6919.2	6938.2	7023.9	7242.8	7552.1	7992.3	8094.6	8132.6	8158.8	8189.7
25°	5589.1	6590.8	6774.0	6828.8	6971.5	7152.3	7671.0	7709.1	7780.5	7897.1	7982.7
27.5°	4842.0	5522.5	6255.3	6636.0	6726.4	6876.3	7185.7	7242.8	7485.5	7514.0	7647.3
30°	3821.2	4347.1	5441.6	6357.6	6507.5	6612.2	6831.1	6945.3	7050.0	7164.2	7304.6
32.5°	3595.2	3678.5	4285.2	5260.8	6426.6	6348.1	6509.9	6578.9	6693.1	6793.1	6895.4
35°	3388.2	3445.3	3573.8	4309.0	5234.6	6131.6	6241.1	6286.3	6350.5	6426.6	6500.4
37.5°	3171.7	3257.3	3345.4	3542.9	4842.0	5960.3	5957.9	6010.3	6048.3	6112.6	6174.4
40°	575.8	2990.9	3133.6	3262.1	3754.6	4754.0	5691.4	5715.2	5741.4	5781.8	5846.1
42.5°	92.8	499.7	2936.1	3059.9	3200.2	4256.7	5570.1	5472.5	5455.9	5484.4	5541.5
45°	47.6	121.3	590.1	2857.6	2983.7	3395.3	4554.1	5303.6	5286.9	5232.2	5244.1
47.5°	35.7	76.1	145.1	987.4	2793.4	2914.7	4201.9	4156.7	4473.2	5079.9	4987.1
50°	30.9	52.3	85.7	202.2	2467.4	2683.9	3235.9	3780.8	3947.4	3968.8	4696.9
52.5°	28.6	35.7	61.9	130.9	518.7	2481.7	2631.6	2821.9	3102.7	3704.7	3690.4
55°	26.2	33.3	52.3	88.0	180.8	2236.6	2391.3	2426.9	2486.4	2774.3	3155.0
57.5°	14.3	30.9	50.0	76.1	135.6	409.2	2170.0	2198.5	2246.1	2258.0	2393.6
60°	7.1	28.6	45.2	66.6	99.9	190.3	1951.1	1984.4	2012.9	2017.7	2060.5
62.5°	4.8	26.2	38.1	61.9	83.3	135.6	461.6	942.2	1791.7	1791.7	1841.6
65°	4.8	19.0	23.8	40.4	76.1	111.8	195.1	226.0	440.2	1082.6	1615.6
67.5°	4.8	7.1	21.4	33.3	57.1	85.7	142.8	166.6	199.9	228.4	423.5
70°	4.8	4.8	19.0	21.4	35.7	64.2	102.3	116.6	135.6	154.7	178.5
72.5°	4.8	4.8	16.7	16.7	23.8	42.8	78.5	85.7	97.6	109.5	126.1
75°	11.9	9.5	14.3	14.3	16.7	33.3	59.5	66.6	71.4	80.9	92.8
77.5°	11.9	11.9	11.9	11.9	11.9	21.4	38.1	42.8	50.0	54.7	64.2
80°	9.5	9.5	9.5	11.9	11.9	14.3	23.8	26.2	28.6	35.7	38.1
82.5°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	14.3	16.7	21.4
85°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	9.5	9.5	9.5	9.5
87.5°	7.1	7.1	7.1	4.8	4.8	7.1	7.1	7.1	7.1	7.1	7.1
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0	7928.0
2.5°	7978.0	7963.7	7951.8	7958.9	7937.5	7928.0	7935.2	7937.5	7942.3	7954.2	7956.6
5°	7956.6	7951.8	7973.2	7985.1	7980.4	7985.1	7985.1	7975.6	7961.3	7970.8	7949.4
7.5°	7942.3	7911.4	7887.6	7892.3	7868.5	7897.1	7923.3	7961.3	7973.2	7973.2	7949.4
10°	8187.4	8154.1	8020.8	7930.4	7870.9	7818.6	7942.3	7816.2	7875.7	7649.6	7909.0
12.5°	8389.6	8434.8	8375.3	8127.9	8085.1	7928.0	8018.4	7863.8	7818.6	7559.2	7642.5
15°	8470.5	8384.9	8365.8	8296.8	8204.0	8158.8	7916.1	7889.9	7816.2	7844.7	7735.3
17.5°	8399.1	8442.0	8384.9	8339.6	8244.5	8137.4	7992.3	7863.8	7761.5	7533.0	7725.8
20°	8330.1	8387.2	8215.9	8244.5	8254.0	8130.3	8054.1	7947.1	7818.6	7604.4	7437.9
22.5°	8215.9	8175.5	8189.7	8146.9	8111.2	8127.9	8023.2	7949.4	7732.9	7635.4	7409.3
25°	8030.3	8016.1	8054.1	8049.4	7963.7	7935.2	7882.8	7804.3	7718.6	7561.6	7376.0
27.5°	7728.2	7801.9	7868.5	7899.5	7854.3	7778.1	7749.6	7704.4	7644.9	7485.5	7347.5
30°	7409.3	7492.6	7568.7	7635.4	7675.8	7642.5	7616.3	7590.1	7499.7	7395.0	7240.4
32.5°	7045.3	7154.7	7259.4	7340.3	7428.4	7454.5	7435.5	7414.1	7337.9	7242.8	7119.0
35°	6624.1	6774.0	6926.3	7071.4	7109.5	7171.4	7233.2	7197.6	7157.1	7061.9	6947.7
37.5°	6267.2	6374.3	6483.7	6667.0	6800.2	6878.7	6988.2	7002.4	6933.4	6888.2	6738.3
40°	5898.4	5996.0	6155.4	6262.5	6445.7	6536.1	6652.7	6705.0	6688.4	6662.2	6531.3
42.5°	5608.1	5655.7	5760.4	5855.6	6036.4	6222.0	6324.3	6381.4	6440.9	6419.5	6352.9
45°	5298.8	5341.7	5377.3	5460.6	5636.7	5800.9	5927.0	6012.6	6119.7	6169.7	6088.8
47.5°	4991.9	5003.8	5046.6	5115.6	5220.3	5346.4	5558.2	5686.7	5786.6	5884.1	5831.8
50°	4756.3	4713.5	4720.6	4763.5	4849.1	4972.9	5125.1	5306.0	5420.2	5539.1	5551.0
52.5°	4156.7	4504.1	4420.8	4444.6	4489.8	4549.3	4708.7	4887.2	5027.6	5129.9	5232.2
55°	3488.1	3557.1	4225.7	4130.6	4159.1	4211.5	4285.2	4463.7	4599.3	4742.1	4884.8
57.5°	2705.3	3219.3	3245.4	3864.1	3849.8	3854.6	3916.4	4018.7	4154.4	4332.8	4454.2
60°	2103.4	2319.9	2741.0	2955.2	3497.7	3516.7	3552.4	3611.9	3728.5	3897.4	4090.1
62.5°	1855.9	1884.5	2034.4	2355.6	2707.7	3133.6	3209.8	3219.3	3271.6	3440.5	3664.2
65°	1629.9	1648.9	1694.1	1727.4	2022.5	2434.1	2800.5	2860.0	2893.3	2993.2	3183.6
67.5°	1123.1	1420.5	1460.9	1484.7	1513.3	1703.6	2158.1	2460.3	2498.3	2586.4	2752.9
70°	216.5	449.7	1230.1	1256.3	1270.6	1313.4	1387.2	1867.8	2120.0	2203.3	2279.4
72.5°	147.5	173.7	209.4	494.9	1046.9	1070.7	1087.4	1149.2	1575.1	1817.8	1858.3
75°	107.1	119.0	140.4	173.7	214.1	697.2	863.7	894.6	925.6	1277.7	1482.3
77.5°	76.1	85.7	95.2	111.8	130.9	168.9	242.7	668.6	699.5	716.2	1011.2
80°	42.8	52.3	64.2	73.8	83.3	95.2	123.7	154.7	345.0	504.4	530.6
82.5°	23.8	28.6	33.3	40.4	45.2	57.1	69.0	83.3	109.5	161.8	342.6
85°	11.9	11.9	11.9	16.7	19.0	26.2	30.9	35.7	50.0	69.0	95.2
87.5°	7.1	7.1	9.5	9.5	9.5	11.9	11.9	11.9	14.3	21.4	30.9
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-LD5-136SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	7928.0	7928.0	7928.0	7928.0	7928.0
2.5°	7958.9	7951.8	7951.8	7980.4	7973.2
5°	7944.7	7937.5	7935.2	7966.1	7951.8
7.5°	7932.8	7906.6	7899.5	7928.0	7916.1
10°	7885.2	7866.2	7878.1	7868.5	7863.8
12.5°	7804.3	7792.4	7742.4	7747.2	7787.6
15°	7659.1	7706.7	7621.1	7697.2	7713.9
17.5°	7392.7	7499.7	7583.0	7628.2	7635.4
20°	7511.6	7547.3	7504.5	7506.9	7535.4
22.5°	7357.0	7373.6	7385.5	7371.2	7433.1
25°	7109.5	7045.3	7183.3	7211.8	7311.8
27.5°	7033.4	6981.0	7045.3	7040.5	7123.8
30°	6971.5	6802.6	6831.1	6876.3	6978.7
32.5°	6883.5	6617.0	6588.4	6688.4	6802.6
35°	6728.8	6476.6	6410.0	6474.2	6645.5
37.5°	6598.0	6281.5	6148.3	6233.9	6457.6
40°	6402.8	6129.2	5922.2	5998.4	6262.5
42.5°	6169.7	5998.4	5679.5	5731.9	6034.0
45°	5934.1	5781.8	5444.0	5470.1	5829.4
47.5°	5693.8	5553.4	5198.9	5203.7	5567.7
50°	5458.2	5272.7	4980.0	4896.7	5289.3
52.5°	5151.3	4980.0	4758.7	4623.1	5025.2
55°	4861.0	4668.3	4506.5	4297.1	4725.4
57.5°	4577.9	4363.7	4254.3	3985.4	4385.2
60°	4190.0	4087.7	3925.9	3669.0	4078.2
62.5°	3792.7	3759.4	3595.2	3328.7	3699.9
65°	3328.7	3407.2	3238.3	3009.9	3307.3
67.5°	2890.9	3031.3	2845.7	2705.3	2929.0
70°	2424.6	2586.4	2481.7	2431.7	2526.9
72.5°	1965.3	2122.4	2131.9	2096.2	2127.1
75°	1518.0	1691.7	1786.9	1732.2	1739.3
77.5°	1151.6	1234.9	1339.6	1382.4	1372.9
80°	711.4	856.6	942.2	1030.3	999.3
82.5°	359.3	480.6	585.3	680.5	635.3
85°	149.9	192.7	268.9	354.5	340.2
87.5°	45.2	76.1	80.9	114.2	107.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)