

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-LD5-200HL-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-LD5-200HL-RM-UNV-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

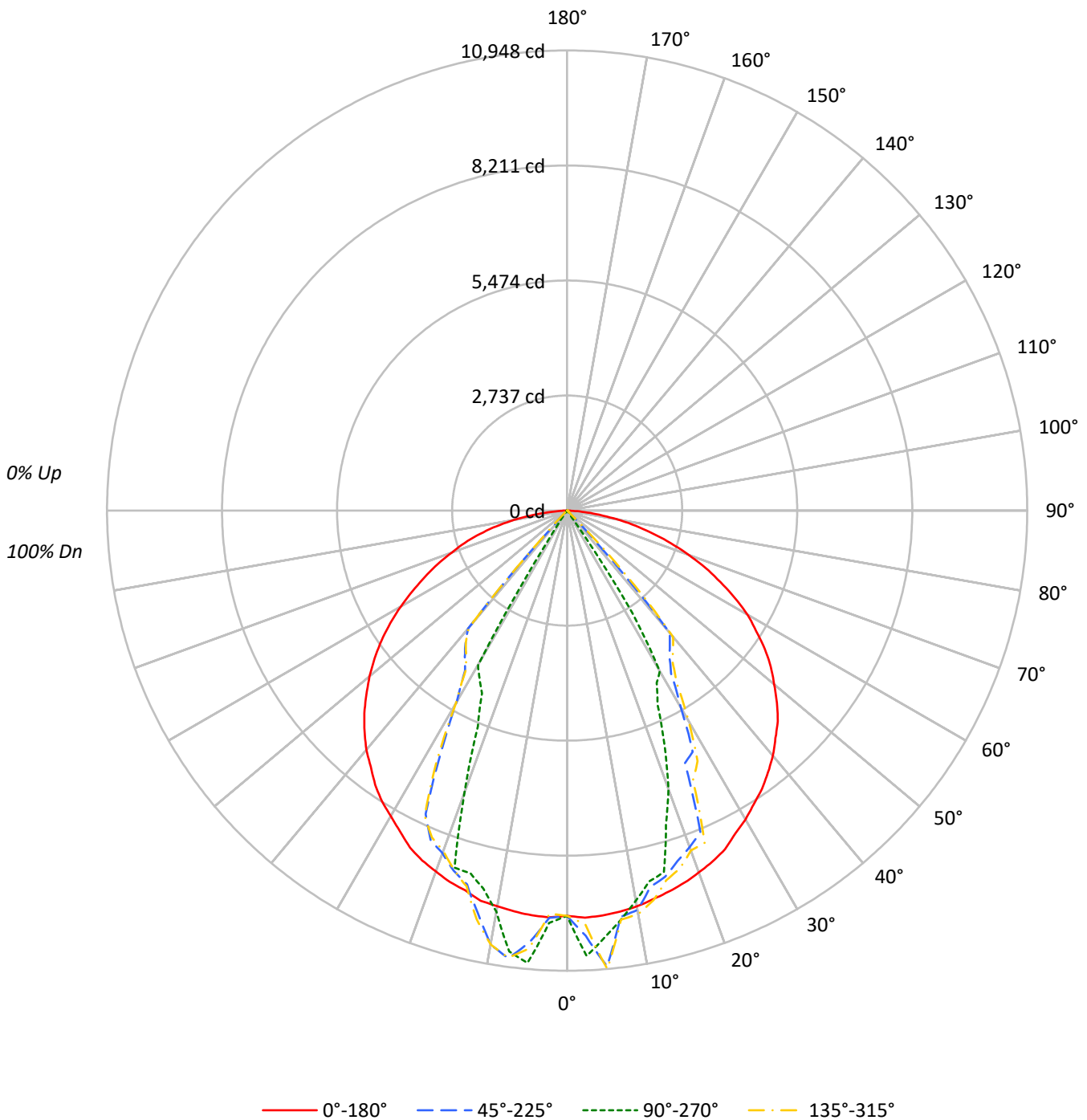
Lumens per Lamp: N/A
Luminaire Lumens: 13707.1 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 158
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-LD5-200HL-RM-UNV-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RM-UNV-L930-CD1-U

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°	38950	38950	38950	38950
5°	39162	40059	39150	42422
10°	39122	36249	39099	37296
15°	39071	33834	38975	33923
20°	39174	26650	39063	26978
25°	39349	19286	39157	18199
30°	39235	16918	38821	16263
35°	39426	373	38847	452
40°	39644	81	38695	81
45°	39879	48	38382	36
50°	39688	38	37867	38
55°	39592	27	37159	27
60°	39016	28	35966	28
65°	37201	46	34551	31
70°	34803	51	33131	51
75°	31197	57	31709	57
80°	25972	65	27455	65
85°	16273	76	16615	76



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RM-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	967.1	7.1
10°-20°	2638.0	19.2
20°-30°	3356.8	24.5
30°-40°	2835.6	20.7
40°-50°	1853.9	13.5
50°-60°	1168.1	8.5
60°-70°	621.8	4.5
70°-80°	226.7	1.7
80°-90°	39.0	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°	6962.0	50.8
0°-40°	9797.6	71.5
0°-60°	12819.5	93.5
0°-90°	13707.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13707.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9640	9640	9640	9640	9640	
5°	9669	10201	9666	10803	9669	919
15°	9379	8902	9356	8925	9379	2652
25°	8890	5083	8847	4797	8890	4088
35°	8080	96	7962	116	8080	5055
45°	7088	12	6822	9	7088	5451
55°	5746	6	5393	6	5746	5120
65°	4021	9	3735	6	4021	3983
75°	2115	9	2150	9	2115	2245
85°	414	9	422	9	414	523
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8
2.5°	9694.8	9700.5	9703.4	9709.2	9717.9	9720.8	9726.6	9720.8	9720.8	9720.8	9720.8
5°	9668.7	9680.3	9689.0	9700.5	9720.8	9723.7	9746.8	9749.7	9761.3	9784.4	9801.8
7.5°	9625.3	9636.9	9654.3	9683.2	9712.1	9743.9	9784.4	9827.8	9888.6	9946.5	10018.8
10°	9561.7	9576.1	9596.4	9622.4	9764.2	9784.4	9874.1	9998.5	10033.2	10215.5	10351.5
12.5°	9469.1	9518.3	9570.4	9593.5	9729.5	9943.6	10244.4	10183.7	10117.1	10713.1	10704.4
15°	9379.4	9446.0	9419.9	9608.0	9732.4	10105.6	9978.3	10250.2	10747.8	10626.3	10632.1
17.5°	9283.9	9298.4	9443.1	9599.3	9822.1	10013.0	10169.2	10542.4	10640.8	10649.5	10542.4
20°	9162.4	9231.9	9443.1	9584.8	9960.9	10050.6	10389.1	10580.0	10539.5	10441.2	10258.9
22.5°	9038.0	9249.2	9463.3	9662.9	9926.2	10166.3	10334.1	10423.8	10212.6	9824.9	9616.6
25°	8890.5	9014.9	9295.5	9587.7	9917.5	10056.4	10154.8	10010.1	9735.3	9388.1	9038.0
27.5°	8661.9	8861.5	9220.3	9550.1	9848.1	10015.9	9856.8	9509.6	9067.0	8838.4	8679.3
30°	8485.4	8745.8	9040.9	9359.2	9668.7	9767.1	9362.1	8965.7	8661.9	8433.4	8398.7
32.5°	8271.4	8641.7	8922.3	9226.1	9486.5	9356.3	8962.8	8450.7	8199.0	8112.2	8147.0
35°	8080.4	8361.0	8728.5	9026.5	9214.5	8922.3	8300.3	7982.0	7860.5	7909.7	7846.1
37.5°	7851.9	8222.2	8560.7	8818.1	8754.5	8314.8	7788.2	7585.7	7600.2	7559.7	7438.1
40°	7614.6	7967.6	8320.5	8563.6	8340.8	7669.6	7319.5	7276.1	7284.8	7154.6	6981.0
42.5°	7336.9	7658.0	8011.0	8230.9	7750.6	7226.9	6989.7	6995.5	6920.3	6738.0	6645.4
45°	7088.1	7383.2	7750.6	7770.8	7180.7	6743.8	6674.4	6599.1	6431.3	6370.6	6301.2
47.5°	6769.8	7096.8	7400.5	7290.6	6622.3	6350.3	6298.3	6133.4	6049.5	6003.2	5945.3
50°	6431.3	6761.2	7038.9	6726.4	6095.7	6032.1	5861.4	5731.2	5673.4	5624.2	5572.1
52.5°	6110.2	6382.2	6665.7	6127.6	5690.7	5630.0	5436.1	5360.9	5303.0	5248.1	5236.5
55°	5745.7	5985.8	6179.6	5557.6	5303.0	5161.3	5022.4	4970.3	4915.4	4889.3	4932.7
57.5°	5332.0	5603.9	5575.0	4996.4	4883.5	4678.1	4626.1	4591.3	4550.8	4568.2	4206.6
60°	4958.8	5167.1	5025.3	4585.6	4394.6	4255.7	4209.5	4186.3	4209.5	3856.5	3390.7
62.5°	4498.8	4733.1	4446.7	4105.3	3902.8	3836.2	3795.7	3827.6	3489.1	3101.4	2988.6
65°	4021.4	4276.0	3853.6	3590.3	3463.0	3405.2	3402.3	3133.2	2800.5	2650.1	2650.1
67.5°	3561.4	3824.7	3280.8	3060.9	3011.7	3017.5	2849.7	2441.8	2349.2	2247.9	1955.7
70°	3072.5	3303.9	2710.8	2577.7	2548.8	2528.6	2120.6	2010.7	1900.8	1631.7	1608.6
72.5°	2586.4	2699.3	2178.5	2146.7	2140.9	1779.3	1698.2	1510.2	1382.9	1351.1	1336.6
75°	2114.9	2080.1	1721.4	1750.3	1475.5	1348.2	1218.0	1108.1	1090.7	1079.1	269.1
77.5°	1669.3	1495.7	1356.9	1180.4	1056.0	896.9	870.8	853.5	561.3	202.5	164.9
80°	1215.1	969.2	902.6	766.7	653.8	627.8	642.3	196.7	156.2	130.2	112.8
82.5°	772.5	619.1	506.3	442.6	431.1	188.1	138.9	112.8	98.4	83.9	69.4
85°	413.7	274.8	254.6	214.1	127.3	86.8	72.3	55.0	46.3	37.6	34.7
87.5°	130.2	109.9	89.7	72.3	43.4	28.9	23.1	20.3	17.4	14.5	14.5
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-LD5-200HL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8
2.5°	9715.0	9720.8	9717.9	9726.6	9726.6	9738.2	9746.8	9755.5	9772.9	9781.5	9848.1
5°	9839.4	9853.9	9897.3	9937.8	9987.0	10001.4	10085.3	10105.6	10203.9	10215.5	10539.5
7.5°	10117.1	10172.1	10276.3	10380.4	10484.6	10551.1	10666.8	10739.2	10817.3	10886.7	11144.2
10°	10452.7	10545.3	10646.6	10750.7	10811.5	10938.8	11008.2	11019.8	10999.5	10886.7	10470.1
12.5°	10782.6	10875.1	10831.7	10852.0	10924.3	10698.7	10730.5	10568.5	10681.3	10122.9	9709.2
15°	10736.3	10730.5	10623.4	10276.3	10334.1	9903.1	9729.5	9596.4	9703.4	9645.6	9581.9
17.5°	10597.4	10334.1	10149.0	9732.4	9555.9	9434.4	9437.3	9440.2	9388.1	9443.1	9281.0
20°	10010.1	9715.0	9440.2	9292.6	9240.5	9153.7	9197.1	9153.7	9156.6	9174.0	8925.2
22.5°	9229.0	9139.3	8980.2	9026.5	9009.1	9087.2	9029.3	8939.7	8968.6	8838.4	8650.3
25°	8913.6	8809.5	8803.7	8821.0	8795.0	8760.3	8708.2	8572.2	8563.6	8523.1	8436.3
27.5°	8595.4	8601.2	8618.5	8566.4	8473.9	8404.4	8326.3	8259.8	8285.8	8239.5	8120.9
30°	8375.5	8372.6	8268.5	8222.2	8051.5	8054.4	8034.1	7993.6	7967.6	7970.5	7895.3
32.5°	8063.1	7973.4	7854.7	7796.9	7782.4	7730.3	7689.8	7698.5	7718.8	7646.4	7724.6
35°	7741.9	7556.8	7539.4	7490.2	7443.9	7409.2	7423.7	7365.8	7362.9	7354.2	6717.8
37.5°	7310.8	7221.2	7212.5	7160.4	7128.6	7119.9	7064.9	7073.6	7099.7	7145.9	5728.3
40°	6955.0	6874.0	6853.7	6850.8	6781.4	6775.6	6790.1	6845.1	6882.7	6593.4	5459.3
42.5°	6573.1	6578.9	6515.2	6474.7	6483.4	6509.5	6578.9	6388.0	5534.5	5274.1	4990.6
45°	6246.2	6217.3	6182.5	6171.0	6246.2	6194.1	5430.3	5010.8	4909.6	4898.0	4102.4
47.5°	5904.8	5896.1	5881.7	5890.3	5462.2	4869.1	4695.5	4640.5	4657.9	4646.3	3523.8
50°	5560.5	5572.1	5572.1	4866.2	4466.9	4368.6	4383.0	4432.2	4125.6	3850.7	3283.7
52.5°	5262.5	5172.9	4432.2	4177.6	4087.9	4131.3	4027.2	3642.4	3364.7	3202.7	3037.7
55°	4710.0	4050.3	3885.4	3844.9	3876.7	3492.0	3254.7	3005.9	2933.6	2916.2	2820.8
57.5°	3706.1	3573.0	3587.4	3425.4	3058.0	2841.0	2745.5	2710.8	2679.0	2655.9	231.4
60°	3277.9	3315.5	3034.9	2687.7	2540.1	2511.2	2488.1	2456.2	2450.5	2409.9	147.5
62.5°	3000.1	2638.5	2395.5	2308.7	2274.0	2265.3	2221.9	2207.4	1874.7	257.5	109.9
65°	2262.4	2114.9	2068.6	2048.3	2010.7	2010.7	1669.3	263.3	214.1	185.2	98.4
67.5°	1845.8	1834.2	1811.1	1785.0	1215.1	254.6	222.8	193.8	167.8	147.5	86.8
70°	1562.3	1556.5	1417.6	260.4	217.0	190.9	167.8	150.4	138.9	124.4	78.1
72.5°	1281.6	260.4	219.9	190.9	164.9	150.4	136.0	121.5	109.9	101.3	63.6
75°	199.6	176.5	156.2	141.8	130.2	115.7	104.2	95.5	92.6	81.0	43.4
77.5°	144.7	124.4	112.8	101.3	89.7	81.0	69.4	60.8	55.0	46.3	31.8
80°	101.3	89.7	81.0	66.5	57.9	49.2	43.4	37.6	34.7	28.9	14.5
82.5°	57.9	49.2	43.4	34.7	31.8	26.0	23.1	20.3	20.3	14.5	14.5
85°	26.0	26.0	20.3	17.4	14.5	14.5	14.5	11.6	11.6	8.7	8.7
87.5°	11.6	11.6	11.6	11.6	11.6	8.7	8.7	8.7	8.7	8.7	5.8
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-LD5-200HL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8
2.5°	9940.7	9978.3	10050.6	10125.8	10041.9	10342.8	10319.7	10420.9	10475.9	10501.9	10562.7
5°	10826.0	10993.8	11048.7	10883.8	10788.3	10690.0	10467.2	10299.4	10319.7	10264.7	10065.1
7.5°	10808.6	10449.9	9966.7	9746.8	9729.5	9703.4	9772.9	9813.4	9819.2	9816.3	9810.5
10°	9894.4	9709.2	9677.4	9648.5	9660.0	9553.0	9503.8	9364.9	9440.2	9399.7	9414.1
12.5°	9616.6	9573.2	9402.6	9165.3	9307.1	9200.0	9139.3	9179.8	9133.5	9090.1	9075.6
15°	9451.7	9171.1	9075.6	9017.8	8977.3	8954.1	8974.4	8928.1	8913.6	8904.9	8925.2
17.5°	9110.4	8997.5	8893.4	8740.0	8742.9	8734.2	8792.1	8878.9	8884.7	8439.2	8037.0
20°	8841.3	8748.7	8615.6	8520.2	8650.3	8418.9	7524.9	7099.7	7033.1	7033.1	7044.7
22.5°	8627.2	8421.8	8430.5	8280.0	7062.0	6813.2	6819.0	6845.1	6726.4	6321.4	6278.0
25°	8335.0	8303.2	7669.6	6628.1	6636.8	6442.9	6144.9	5725.4	5271.2	5271.2	5196.0
27.5°	8115.1	7441.0	6515.2	6471.9	5820.9	5410.1	5155.5	4770.7	4718.6	4669.5	4675.2
30°	7927.1	6295.4	6318.5	5410.1	4929.8	4588.4	4568.2	4504.5	4472.7	4464.0	4432.2
32.5°	6266.4	6130.5	5288.6	4605.8	4417.8	4362.8	4336.7	4264.4	4261.5	4206.6	3824.7
35°	5875.9	5381.2	4426.4	4241.3	4186.3	4134.2	4090.8	2745.5	324.0	130.2	112.8
37.5°	5430.3	4495.9	4093.7	4009.8	3957.8	2924.9	292.2	101.3	72.3	52.1	46.3
40°	4602.9	4015.6	3888.3	3795.7	1565.2	101.3	63.6	49.2	28.9	26.0	23.1
42.5°	3882.5	3784.2	3648.2	1110.9	115.7	49.2	31.8	23.1	20.3	20.3	17.4
45°	3633.7	3546.9	1469.7	109.9	72.3	23.1	20.3	20.3	17.4	11.6	11.6
47.5°	3402.3	2994.4	133.1	69.4	46.3	20.3	17.4	11.6	11.6	11.6	8.7
50°	3156.4	164.9	92.6	52.1	28.9	11.6	11.6	11.6	11.6	8.7	8.7
52.5°	590.2	115.7	75.2	46.3	14.5	11.6	11.6	11.6	8.7	8.7	8.7
55°	138.9	92.6	69.4	40.5	11.6	11.6	11.6	8.7	8.7	8.7	5.8
57.5°	104.2	69.4	55.0	37.6	11.6	8.7	8.7	8.7	8.7	8.7	5.8
60°	86.8	49.2	43.4	34.7	8.7	8.7	8.7	8.7	8.7	8.7	5.8
62.5°	60.8	40.5	31.8	26.0	8.7	8.7	8.7	8.7	8.7	8.7	8.7
65°	49.2	31.8	26.0	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
67.5°	43.4	26.0	17.4	5.8	8.7	8.7	8.7	8.7	8.7	8.7	8.7
70°	34.7	8.7	8.7	5.8	8.7	8.7	8.7	8.7	8.7	8.7	8.7
72.5°	28.9	8.7	5.8	5.8	8.7	8.7	8.7	8.7	8.7	8.7	8.7
75°	28.9	14.5	5.8	5.8	8.7	8.7	11.6	11.6	8.7	8.7	8.7
77.5°	20.3	14.5	5.8	5.8	8.7	8.7	11.6	11.6	8.7	8.7	8.7
80°	11.6	14.5	5.8	8.7	8.7	17.4	20.3	11.6	8.7	8.7	8.7
82.5°	11.6	14.5	17.4	17.4	8.7	14.5	17.4	14.5	11.6	8.7	8.7
85°	11.6	8.7	11.6	14.5	8.7	14.5	14.5	11.6	11.6	8.7	8.7
87.5°	5.8	8.7	8.7	11.6	11.6	11.6	14.5	11.6	11.6	11.6	8.7
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-LD5-200HL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8
2.5°	10591.6	10603.2	10420.9	10357.3	10412.2	10400.7	10351.5	10169.2	10149.0	10027.5	9851.0
5°	10122.9	10201.0	10105.6	10270.5	10192.4	10270.5	10507.7	10617.7	10797.0	10907.0	10947.5
7.5°	9796.0	9813.4	9813.4	9827.8	9842.3	9845.2	9827.8	9816.3	9767.1	9706.3	9816.3
10°	9399.7	9419.9	9454.6	9448.8	9446.0	9506.7	9521.2	9645.6	9639.8	9662.9	9746.8
12.5°	9194.3	9038.0	9179.8	9142.2	9194.3	9113.2	9263.7	9237.6	9246.3	9315.8	9495.1
15°	8852.9	8902.0	8936.8	8936.8	8957.0	8939.7	8922.3	9040.9	9113.2	9116.1	9104.6
17.5°	8196.1	7822.9	8204.8	8106.4	8890.5	8910.7	8844.2	8789.2	8789.2	8832.6	8925.2
20°	7036.0	7044.7	7047.6	7085.2	7131.5	7128.6	7131.5	8271.4	8812.4	8688.0	8604.1
22.5°	6168.1	6061.0	6260.7	6246.2	6495.0	6769.8	7033.1	7007.1	7024.4	7828.7	8552.0
25°	4944.3	5083.2	4970.3	5019.5	5300.1	5627.1	5829.6	6359.0	6934.7	6894.2	7082.3
27.5°	4655.0	4617.4	4669.5	4669.5	4707.1	4750.5	4863.3	5161.3	5673.4	6211.5	6720.7
30°	4380.1	4412.0	4417.8	4469.8	4498.8	4527.7	4545.0	4657.9	4773.6	5146.8	5774.6
32.5°	3289.4	2884.4	3795.7	4041.7	4250.0	4299.1	4333.9	4380.1	4464.0	4519.0	4834.4
35°	95.5	95.5	101.3	115.7	147.5	995.2	3790.0	4177.6	4232.6	4302.0	4359.9
37.5°	46.3	34.7	40.5	43.4	52.1	72.3	104.2	324.0	3607.7	4079.3	4142.9
40°	20.3	20.3	20.3	20.3	23.1	28.9	43.4	72.3	109.9	2901.8	3914.4
42.5°	17.4	17.4	17.4	17.4	17.4	17.4	20.3	26.0	52.1	124.4	2054.1
45°	11.6	11.6	8.7	11.6	11.6	14.5	17.4	17.4	23.1	78.1	141.8
47.5°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	14.5	17.4	52.1	75.2
50°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	40.5	52.1
52.5°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	17.4	46.3
55°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	8.7	8.7	11.6	40.5
57.5°	5.8	5.8	5.8	5.8	5.8	8.7	5.8	5.8	8.7	8.7	37.6
60°	5.8	5.8	5.8	5.8	5.8	8.7	8.7	8.7	8.7	8.7	34.7
62.5°	8.7	8.7	5.8	8.7	5.8	5.8	8.7	8.7	8.7	8.7	23.1
65°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	5.8	8.7
67.5°	8.7	8.7	8.7	8.7	5.8	8.7	5.8	8.7	8.7	5.8	5.8
70°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	5.8	5.8	5.8	5.8
72.5°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	5.8	5.8	5.8	5.8
75°	8.7	8.7	8.7	8.7	8.7	8.7	11.6	11.6	5.8	5.8	5.8
77.5°	8.7	8.7	8.7	8.7	8.7	8.7	14.5	17.4	14.5	14.5	5.8
80°	8.7	8.7	8.7	8.7	8.7	8.7	14.5	14.5	14.5	14.5	20.3
82.5°	8.7	8.7	8.7	8.7	8.7	8.7	11.6	11.6	11.6	11.6	14.5
85°	8.7	8.7	8.7	8.7	8.7	8.7	11.6	11.6	11.6	8.7	11.6
87.5°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	11.6	8.7	8.7	8.7
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-LD5-200HL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8
2.5°	9865.4	9767.1	9735.3	9668.7	9662.9	9668.7	9654.3	9634.0	9645.6	9625.3	9608.0
5°	10970.6	10707.3	10536.6	10308.1	9992.7	9923.3	9906.0	9807.6	9772.9	9761.3	9715.0
7.5°	10076.6	10556.9	10846.2	10944.6	10574.3	10487.5	10386.2	10305.2	10227.1	10079.5	9989.9
10°	9680.3	9703.4	9981.2	10305.2	10831.7	10904.1	10959.0	10782.6	10733.4	10357.3	10276.3
12.5°	9587.7	9590.6	9622.4	9819.2	10232.9	10279.2	10473.0	10577.1	10704.4	10776.8	10718.9
15°	9165.3	9399.7	9573.2	9590.6	9628.2	9709.2	9767.1	10128.7	10282.1	10692.9	10669.7
17.5°	8968.6	9043.8	9295.5	9500.9	9466.2	9437.3	9483.6	9532.7	9680.3	10091.1	10085.3
20°	8641.7	8881.8	9017.8	9231.9	9425.7	9434.4	9382.3	9353.4	9295.5	9362.1	9422.8
22.5°	8502.8	8540.4	8795.0	8945.4	9165.3	9243.4	9255.0	9257.9	9226.1	9191.4	9174.0
25°	8488.3	8369.7	8499.9	8688.0	8850.0	8933.9	9029.3	9061.2	9049.6	9049.6	9032.2
27.5°	6946.3	8332.1	8262.7	8387.1	8583.8	8641.7	8690.9	8789.2	8850.0	8893.4	8913.6
30°	6616.5	6865.3	8077.5	8094.9	8294.5	8288.7	8343.7	8424.7	8502.8	8604.1	8630.1
32.5°	5852.7	6463.2	7394.7	7802.7	8011.0	8031.2	8060.2	8083.3	8155.6	8268.5	8366.8
35°	4689.7	5887.4	6335.9	7663.8	7701.4	7741.9	7759.3	7814.2	7837.4	7883.7	7970.5
37.5°	4244.2	4866.2	6078.4	6628.1	7345.6	7380.3	7472.9	7496.0	7533.6	7571.2	7637.8
40°	3986.7	4157.4	5060.0	5919.3	7059.1	7082.3	7114.1	7172.0	7174.9	7218.3	7279.0
42.5°	3781.3	3891.2	4154.5	5653.1	6856.6	6853.7	6778.5	6816.1	6833.5	6879.8	6963.7
45°	3020.4	3651.1	3818.9	4617.4	5459.3	5852.7	6607.8	6483.4	6480.5	6497.9	6587.6
47.5°	153.3	3434.1	3552.7	3810.2	5155.5	5170.0	5268.3	6095.7	6223.0	6182.5	6191.2
50°	104.2	237.2	3309.7	3428.3	4443.8	4802.5	4874.9	4912.5	5389.8	5922.2	5835.4
52.5°	81.0	136.0	2028.1	3182.4	3610.6	3873.9	4339.6	4605.8	4634.7	4848.8	5575.0
55°	72.3	104.2	219.9	2936.5	3069.6	3127.4	3399.4	3865.2	4241.3	4354.1	4362.8
57.5°	63.6	95.5	150.4	1327.9	2791.8	2803.4	2849.7	3011.7	3350.2	3659.8	4009.8
60°	57.9	83.9	118.6	228.6	2537.2	2566.2	2574.9	2618.2	2658.8	2869.9	3272.1
62.5°	34.7	66.5	104.2	164.9	2007.8	2305.8	2302.9	2331.8	2369.4	2392.6	2473.6
65°	28.9	52.1	89.7	138.9	245.9	306.7	1863.2	2071.5	2094.6	2126.4	2140.9
67.5°	26.0	46.3	66.5	109.9	185.2	211.2	243.0	300.9	1643.3	1851.6	1880.5
70°	23.1	31.8	55.0	92.6	150.4	162.0	182.3	208.3	245.9	303.8	1487.1
72.5°	14.5	23.1	37.6	66.5	115.7	130.2	141.8	159.1	176.5	211.2	243.0
75°	5.8	17.4	31.8	49.2	89.7	98.4	107.0	118.6	133.1	156.2	173.6
77.5°	5.8	14.5	26.0	34.7	57.9	66.5	78.1	86.8	98.4	109.9	127.3
80°	20.3	11.6	17.4	26.0	40.5	43.4	49.2	55.0	63.6	72.3	83.9
82.5°	14.5	17.4	20.3	17.4	20.3	26.0	28.9	34.7	37.6	43.4	46.3
85°	11.6	11.6	14.5	14.5	14.5	14.5	14.5	14.5	17.4	20.3	26.0
87.5°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	11.6	11.6
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-LD5-200HL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8
2.5°	9608.0	9602.2	9584.8	9584.8	9581.9	9593.5	9602.2	9610.9	9608.0	9625.3	9608.0
5°	9680.3	9665.8	9639.8	9616.6	9608.0	9613.7	9605.1	9613.7	9602.2	9616.6	9590.6
7.5°	9879.9	9830.7	9729.5	9689.0	9636.9	9634.0	9608.0	9602.2	9584.8	9584.8	9553.0
10°	10232.9	9995.6	9966.7	9845.2	9801.8	9590.6	9636.9	9558.8	9550.1	9512.5	9498.0
12.5°	10522.2	10337.0	10282.1	10175.0	10053.5	9625.3	9720.8	9553.0	9544.3	9469.1	9391.0
15°	10528.0	10635.0	10484.6	10189.5	10163.4	9868.3	9674.5	9616.6	9541.4	9315.8	9353.4
17.5°	10189.5	10435.4	10507.7	10444.1	10258.9	10059.3	9787.3	9671.6	9446.0	9344.7	9275.3
20°	9639.8	9888.6	10198.2	10218.4	10334.1	10192.4	9836.5	9648.5	9376.5	9200.0	9142.2
22.5°	9202.9	9385.2	9741.0	9906.0	10047.7	10096.9	9871.2	9593.5	9255.0	9084.3	9049.6
25°	8971.5	9012.0	9119.0	9312.9	9625.3	9851.0	9882.8	9587.7	9411.2	9038.0	8841.3
27.5°	8887.6	8852.9	8809.5	8907.8	9142.2	9417.0	9599.3	9648.5	9208.7	8852.9	8656.1
30°	8673.5	8693.7	8627.2	8592.5	8745.8	9029.3	9353.4	9434.4	9095.9	8728.5	8502.8
32.5°	8410.2	8444.9	8456.5	8395.8	8363.9	8560.7	8910.7	9104.6	9087.2	8552.0	8300.3
35°	8080.4	8178.8	8204.8	8207.7	8155.6	8123.8	8326.3	8728.5	8881.8	8471.0	8106.4
37.5°	7733.2	7762.2	7903.9	7941.5	7941.5	7846.1	7996.5	8317.6	8531.7	8288.7	7869.2
40°	7299.3	7391.9	7524.9	7591.5	7658.0	7666.7	7582.8	7808.5	8161.4	8100.7	7646.4
42.5°	6983.9	7044.7	7125.7	7215.4	7351.4	7386.1	7299.3	7339.8	7707.2	7866.3	7357.1
45°	6616.5	6697.5	6720.7	6819.0	6960.8	7062.0	7059.1	6975.2	7270.3	7467.1	7145.9
47.5°	6240.4	6318.5	6359.0	6408.2	6512.4	6642.5	6714.9	6677.3	6735.1	7119.9	6865.3
50°	5852.7	5896.1	5977.1	6032.1	6101.5	6176.8	6350.3	6385.1	6304.1	6610.7	6555.7
52.5°	5485.3	5499.8	5554.7	5609.7	5702.3	5757.3	5896.1	6000.3	5994.5	6084.2	6211.5
55°	5198.9	5135.2	5146.8	5190.2	5251.0	5334.9	5413.0	5575.0	5630.0	5647.3	5849.8
57.5°	4061.9	4715.7	4773.6	4770.7	4843.0	4880.6	4953.0	5060.0	5256.8	5213.4	5439.0
60°	3691.6	3763.9	4310.7	4374.4	4400.4	4435.1	4521.9	4620.3	4764.9	4857.5	4955.9
62.5°	2815.0	3254.7	3419.6	3902.8	3978.0	3998.3	4056.1	4102.4	4252.8	4464.0	4423.5
65°	2178.5	2366.6	2869.9	3066.7	3477.5	3529.6	3610.6	3659.8	3703.2	3946.2	3957.8
67.5°	1883.4	1912.3	2048.3	2427.3	2687.7	3089.8	3139.0	3182.4	3248.9	3422.5	3529.6
70°	1608.6	1643.3	1680.9	1712.7	2051.2	2317.4	2690.6	2705.0	2748.4	2864.2	3107.2
72.5°	303.8	1374.2	1397.4	1417.6	1455.2	1631.7	1987.6	2276.9	2294.2	2349.2	2572.0
75°	205.4	240.1	329.8	1134.1	1171.7	1183.3	1244.0	1605.7	1871.8	1883.4	1981.8
77.5°	147.5	164.9	199.6	237.2	604.7	908.4	922.9	989.4	1264.3	1463.9	1481.3
80°	101.3	112.8	133.1	150.4	185.2	243.0	671.2	691.4	726.2	1001.0	1053.1
82.5°	57.9	66.5	78.1	95.5	109.9	138.9	179.4	231.4	471.6	503.4	668.3
85°	28.9	31.8	37.6	46.3	55.0	66.5	89.7	109.9	150.4	272.0	280.6
87.5°	14.5	14.5	14.5	14.5	23.1	26.0	31.8	40.5	52.1	78.1	101.3
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-LD5-200HL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8
2.5°	9610.9	9651.4	9686.1	9694.8	9694.8	9700.5	9709.2	9715.0	9720.8	9726.6	9720.8
5°	9593.5	9636.9	9665.8	9674.5	9674.5	9691.9	9706.3	9723.7	9732.4	9732.4	9726.6
7.5°	9550.1	9581.9	9619.5	9642.7	9645.6	9674.5	9700.5	9697.6	9709.2	9715.0	9729.5
10°	9492.2	9492.2	9555.9	9573.2	9587.7	9619.5	9628.2	9645.6	9686.1	9691.9	9729.5
12.5°	9463.3	9434.4	9509.6	9518.3	9567.5	9527.0	9579.0	9596.4	9555.9	9610.9	9538.5
15°	9333.1	9367.8	9356.3	9382.3	9469.1	9422.8	9564.6	9518.3	9622.4	9498.0	9717.9
17.5°	9226.1	9220.3	9266.6	9289.7	9307.1	9405.4	9443.1	9495.1	9535.6	9500.9	9587.7
20°	9148.0	9101.7	9136.4	9162.4	9223.2	9298.4	9321.5	9243.4	9379.4	9610.9	9665.8
22.5°	9000.4	8968.6	9009.1	9009.1	9101.7	9090.1	9176.9	9127.7	9255.0	9524.1	9804.7
25°	8800.8	8803.7	8847.1	8899.2	8916.5	9046.7	9093.0	9156.6	9315.8	9636.9	9807.6
27.5°	8598.3	8580.9	8607.0	8714.0	8803.7	8899.2	8913.6	9130.6	9347.6	9567.5	9717.9
30°	8395.8	8378.4	8395.8	8473.9	8580.9	8644.6	8803.7	9093.0	9295.5	9446.0	9587.7
32.5°	8178.8	8161.4	8201.9	8259.8	8447.8	8456.5	8771.9	9043.8	9202.9	9312.9	9286.8
35°	7947.3	7924.2	7961.8	8051.5	8225.1	8288.7	8618.5	8821.0	9000.4	9052.5	8931.0
37.5°	7669.6	7629.1	7675.4	7799.8	7982.0	8167.2	8442.0	8676.4	8771.9	8633.0	8488.3
40°	7380.3	7351.4	7432.4	7496.0	7710.1	7967.6	8282.9	8447.8	8387.1	8228.0	8068.8
42.5°	7122.8	7062.0	7134.4	7255.9	7498.9	7791.1	8045.7	8138.3	7993.6	7759.3	7574.1
45°	6807.4	6735.1	6821.9	6983.9	7244.3	7577.0	7776.6	7744.8	7498.9	7296.4	7041.8
47.5°	6477.6	6390.8	6477.6	6671.5	6963.7	7316.6	7461.3	7316.6	7007.1	6752.5	6547.1
50°	6153.6	6052.4	6136.3	6428.5	6714.9	6986.8	6983.9	6703.3	6518.1	6240.4	6061.0
52.5°	5832.5	5687.8	5771.7	6090.0	6376.4	6685.9	6457.4	6197.0	5974.2	5731.2	5673.4
55°	5436.1	5279.9	5392.7	5855.6	6075.5	6257.8	5893.2	5664.7	5444.8	5323.3	5251.0
57.5°	5060.0	4889.3	4987.7	5534.5	5696.5	5742.8	5407.2	5083.2	4953.0	4912.5	4808.3
60°	4672.3	4478.5	4571.1	5201.8	5314.6	5126.6	4796.7	4545.0	4519.0	4438.0	4357.0
62.5°	4302.0	4087.9	4145.8	4788.1	4840.1	4498.8	4195.0	4128.4	4064.8	3983.8	3940.4
65°	3876.7	3654.0	3735.0	4348.3	4299.1	3859.4	3688.7	3674.2	3590.3	3523.8	3587.4
67.5°	3486.2	3222.9	3335.7	3868.1	3645.3	3286.6	3217.1	3182.4	3115.9	3153.5	2485.2
70°	3058.0	2771.6	2924.9	3350.2	3020.4	2783.2	2757.1	2705.0	2707.9	2152.5	1814.0
72.5°	2580.6	2331.8	2554.6	2783.2	2389.7	2320.3	2282.7	2276.9	1837.1	1492.8	1408.9
75°	2161.1	1909.4	2149.6	2236.4	1903.7	1857.4	1854.5	1533.3	1206.4	1151.5	1125.4
77.5°	1686.7	1492.8	1721.4	1591.2	1461.0	1408.9	1264.3	948.9	908.4	870.8	326.9
80°	1137.0	1151.5	1284.5	1096.5	1041.5	888.2	700.1	671.2	578.6	231.4	182.3
82.5°	691.4	867.9	818.7	685.7	671.2	483.1	442.6	225.7	167.8	133.1	115.7
85°	358.7	439.8	422.4	373.2	277.7	248.8	138.9	107.0	86.8	66.5	55.0
87.5°	121.5	162.0	156.2	124.4	95.5	75.2	49.2	40.5	28.9	23.1	20.3
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-LD5-200HL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8
2.5°	9715.0	9715.0	9709.2	9715.0	9717.9	9712.1	9712.1	9717.9	9720.8	9723.7	9738.2
5°	9729.5	9735.3	9743.9	9761.3	9764.2	9798.9	9813.4	9822.1	9830.7	9833.6	9813.4
7.5°	9761.3	9781.5	9798.9	9796.0	9775.8	9720.8	9703.4	9689.0	9715.0	9781.5	9859.7
10°	9790.2	9697.6	9524.1	9761.3	9689.0	9755.5	9952.2	9995.6	10128.7	10316.8	10371.7
12.5°	9590.6	9845.2	9900.2	9634.0	10125.8	9943.6	10160.5	10351.5	10406.5	10597.4	10481.7
15°	9804.7	9929.1	10013.0	10279.2	10250.2	10406.5	10467.2	10429.6	10438.3	10487.5	10617.7
17.5°	9801.8	10050.6	10105.6	10284.9	10406.5	10409.4	10392.0	10374.6	10420.9	10458.5	10380.4
20°	9969.6	10050.6	10157.7	10230.0	10253.1	10282.1	10337.0	10293.6	10206.8	10122.9	10088.2
22.5°	9885.7	10068.0	10160.5	10172.1	10157.7	10068.0	9987.0	9865.4	9824.9	9781.5	9796.0
25°	9903.1	9987.0	9975.4	9929.1	9868.3	9700.5	9660.0	9608.0	9529.9	9341.8	9171.1
27.5°	9778.7	9735.3	9683.2	9570.4	9460.4	9370.7	9269.5	9101.7	8962.8	8760.3	8685.1
30°	9570.4	9396.8	9269.5	9202.9	9095.9	8945.4	8792.1	8586.7	8410.2	8369.7	8332.1
32.5°	9171.1	9000.4	8896.3	8734.2	8552.0	8372.6	8196.1	8115.1	8077.5	8083.3	8048.6
35°	8763.2	8612.7	8456.5	8213.5	8077.5	7898.1	7834.5	7817.1	7782.4	7744.8	7704.3
37.5°	8329.2	8152.7	7918.4	7773.7	7637.8	7565.4	7533.6	7507.6	7446.8	7380.3	7334.0
40°	7909.7	7591.5	7461.3	7319.5	7279.0	7247.2	7200.9	7137.3	7053.4	7041.8	7021.5
42.5°	7348.5	7119.9	7007.1	6978.1	6929.0	6874.0	6833.5	6764.1	6729.3	6752.5	6769.8
45°	6816.1	6700.4	6662.8	6628.1	6535.5	6457.4	6431.3	6408.2	6437.1	6564.4	6260.7
47.5°	6385.1	6338.8	6292.5	6234.6	6147.8	6090.0	6116.0	6139.1	6165.2	5230.7	4773.6
50°	6011.8	5948.2	5875.9	5812.2	5760.1	5754.4	5890.3	5482.4	4591.3	4568.2	4105.3
52.5°	5603.9	5508.5	5465.1	5427.4	5450.6	5537.4	4582.7	4252.8	4079.3	3544.0	3306.8
55°	5164.2	5080.3	5080.3	5115.0	4990.6	4044.5	3995.4	3454.4	3127.4	3034.9	2997.2
57.5°	4724.4	4715.7	4764.9	4357.0	3671.3	3520.9	2959.6	2841.0	2788.9	2777.4	2716.6
60°	4322.3	4403.3	3685.8	3390.7	2948.1	2658.8	2577.7	2563.3	2508.3	2488.1	2433.1
62.5°	4001.1	3318.4	3089.8	2522.8	2375.2	2337.6	2294.2	2274.0	2224.8	1964.4	575.7
65°	2890.2	2731.1	2216.1	2120.6	2109.1	2054.1	2036.7	1831.3	431.1	289.3	245.9
67.5°	2181.4	1935.5	1868.9	1851.6	1796.6	1686.7	500.5	286.4	245.9	214.1	188.1
70°	1675.1	1631.7	1582.5	1542.0	454.2	283.5	245.9	208.3	179.4	159.1	144.7
72.5°	1371.3	1342.4	781.1	298.0	243.0	205.4	182.3	159.1	138.9	127.3	115.7
75°	1073.3	298.0	245.9	205.4	176.5	150.4	133.1	118.6	107.0	98.4	89.7
77.5°	243.0	196.7	167.8	141.8	127.3	112.8	101.3	86.8	78.1	69.4	57.9
80°	150.4	130.2	109.9	101.3	86.8	72.3	63.6	57.9	46.3	43.4	37.6
82.5°	98.4	78.1	69.4	57.9	46.3	43.4	37.6	28.9	26.0	23.1	20.3
85°	43.4	37.6	31.8	26.0	20.3	17.4	14.5	11.6	11.6	11.6	11.6
87.5°	14.5	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	5.8	5.8
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-LD5-200HL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8
2.5°	9743.9	9796.0	9845.2	9830.7	9778.7	9697.6	9674.5	9642.7	9665.8	9715.0	9735.3
5°	9813.4	9784.4	9888.6	10041.9	10290.7	10313.9	10487.5	10528.0	10666.8	10753.6	10750.7
7.5°	9911.7	10322.6	10493.3	10678.4	10762.3	10742.1	10768.1	10747.8	10716.0	10701.6	10684.2
10°	10412.2	10724.7	10788.3	10788.3	10658.2	10481.7	10406.5	10276.3	10015.9	10021.7	9978.3
12.5°	10704.4	10814.4	10663.9	10536.6	10013.0	9810.5	9590.6	9486.5	9425.7	9333.1	9367.8
15°	10551.1	10394.9	10305.2	9894.4	9573.2	9208.7	9214.5	9150.9	9084.3	9090.1	9046.7
17.5°	10325.5	10201.0	9564.6	9281.0	9124.8	8983.1	8957.0	8873.1	8829.7	8815.3	8812.4
20°	10015.9	9567.5	9093.0	9023.6	8835.5	8673.5	8647.5	8673.5	8806.6	8569.3	7765.1
22.5°	9654.3	9009.1	8870.2	8673.5	8546.2	8482.6	8641.7	7918.4	6824.8	6957.9	6816.1
25°	9040.9	8760.3	8523.1	8372.6	8358.1	7967.6	6639.6	6500.8	5797.8	5421.7	4999.3
27.5°	8592.5	8471.0	8222.2	8196.1	8008.1	6515.2	5823.8	5060.0	4779.4	4736.0	4643.4
30°	8320.5	8147.0	7996.5	7339.8	6390.8	5245.2	4672.3	4565.3	4516.1	4464.0	4383.0
32.5°	7993.6	7828.7	7901.0	6171.0	5094.7	4516.1	4400.4	4322.3	4232.6	4197.9	3905.7
35°	7660.9	7585.7	6173.9	5187.3	4380.1	4241.3	4154.5	4073.5	3240.3	784.0	266.2
37.5°	7305.1	7287.7	5549.0	4304.9	4102.4	3972.2	3726.3	769.6	182.3	124.4	92.6
40°	7027.3	5551.8	4385.9	4035.9	3871.0	3665.5	515.0	127.3	81.0	49.2	31.8
42.5°	6842.2	4993.5	3925.9	3787.1	3428.3	379.0	130.2	55.0	31.8	26.0	20.3
45°	5274.1	3943.3	3668.4	3523.8	434.0	130.2	75.2	26.0	20.3	17.4	11.6
47.5°	4866.2	3581.6	3419.6	769.6	144.7	69.4	52.1	17.4	11.6	11.6	11.6
50°	3685.8	3309.7	2722.4	188.1	92.6	49.2	37.6	11.6	11.6	11.6	8.7
52.5°	3231.6	3055.1	292.2	124.4	72.3	37.6	23.1	8.7	8.7	8.7	8.7
55°	2953.8	1938.4	173.6	95.5	60.8	34.7	14.5	8.7	8.7	8.7	5.8
57.5°	2702.1	260.4	127.3	81.0	55.0	31.8	8.7	8.7	8.7	8.7	5.8
60°	2291.3	188.1	104.2	72.3	52.1	28.9	8.7	8.7	8.7	8.7	8.7
62.5°	298.0	147.5	89.7	63.6	37.6	23.1	5.8	8.7	8.7	8.7	8.7
65°	217.0	115.7	81.0	43.4	23.1	8.7	5.8	8.7	8.7	8.7	8.7
67.5°	167.8	95.5	60.8	37.6	20.3	5.8	5.8	8.7	8.7	8.7	8.7
70°	133.1	81.0	49.2	31.8	17.4	5.8	5.8	8.7	8.7	8.7	8.7
72.5°	104.2	57.9	34.7	17.4	11.6	5.8	5.8	8.7	8.7	8.7	8.7
75°	78.1	46.3	26.0	14.5	5.8	5.8	5.8	8.7	8.7	8.7	8.7
77.5°	52.1	28.9	20.3	11.6	11.6	11.6	14.5	14.5	8.7	8.7	8.7
80°	34.7	20.3	14.5	14.5	14.5	11.6	14.5	14.5	8.7	14.5	8.7
82.5°	17.4	14.5	14.5	11.6	11.6	8.7	11.6	11.6	11.6	11.6	8.7
85°	11.6	8.7	8.7	8.7	8.7	8.7	8.7	8.7	11.6	11.6	8.7
87.5°	5.8	5.8	5.8	5.8	8.7	8.7	8.7	8.7	11.6	11.6	8.7
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-LD5-200HL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8
2.5°	9709.2	9717.9	9694.8	9819.2	9755.5	9761.3	9787.3	9720.8	9735.3	9689.0	9657.1
5°	10762.3	10779.7	10797.0	10802.8	10814.4	10828.8	10811.5	10802.8	10785.5	10727.6	10666.8
7.5°	10597.4	10577.1	10568.5	10580.0	10600.3	10609.0	10594.5	10614.8	10690.0	10721.8	10742.1
10°	9729.5	9636.9	9700.5	9691.9	9619.5	9862.6	9796.0	9833.6	9859.7	10125.8	10287.8
12.5°	9315.8	9373.6	9263.7	9208.7	9281.0	9330.2	9379.4	9275.3	9419.9	9353.4	9567.5
15°	8968.6	8933.9	8922.3	8925.2	8910.7	8980.2	8997.5	9020.7	9040.9	9130.6	9165.3
17.5°	8812.4	8870.2	8893.4	8910.7	8881.8	8850.0	8818.1	8771.9	8786.3	8763.2	8829.7
20°	7224.1	7030.2	7018.6	7131.5	7007.1	7076.5	7244.3	8366.8	8329.2	8766.1	8618.5
22.5°	6029.2	5846.9	5690.7	5554.7	5748.6	5829.6	6142.0	6495.0	7067.8	6978.1	7600.2
25°	4924.0	4857.5	4817.0	4796.7	4811.2	4805.4	4874.9	5039.8	5300.1	5913.5	6706.2
27.5°	4605.8	4574.0	4559.5	4513.2	4547.9	4536.4	4591.3	4626.1	4704.2	4764.9	5022.4
30°	4354.1	4316.5	4290.5	4241.3	4276.0	4278.9	4296.2	4385.9	4417.8	4469.8	4550.8
32.5°	1591.2	937.4	879.5	836.1	914.2	1192.0	2091.7	3656.9	4171.8	4212.3	4304.9
35°	156.2	130.2	115.7	115.7	118.6	130.2	173.6	457.1	836.1	3231.6	4044.5
37.5°	60.8	52.1	43.4	40.5	43.4	49.2	66.5	86.8	118.6	245.9	1096.5
40°	26.0	23.1	20.3	20.3	20.3	20.3	23.1	28.9	43.4	81.0	127.3
42.5°	17.4	14.5	14.5	14.5	14.5	14.5	14.5	14.5	20.3	26.0	52.1
45°	11.6	8.7	8.7	8.7	8.7	8.7	8.7	8.7	11.6	14.5	23.1
47.5°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	11.6
50°	8.7	8.7	8.7	8.7	5.8	8.7	5.8	8.7	8.7	8.7	8.7
52.5°	8.7	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	8.7	8.7
55°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	8.7
57.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
60°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
62.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	8.7	8.7	5.8
65°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	8.7	5.8
67.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
70°	8.7	8.7	5.8	8.7	5.8	5.8	8.7	8.7	8.7	5.8	5.8
72.5°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	17.4	17.4	11.6
75°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	14.5	17.4	14.5
77.5°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	14.5	14.5	14.5
80°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	11.6	11.6	11.6
82.5°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	11.6	11.6	11.6
85°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
87.5°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
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-LD5-200HL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8
2.5°	9602.2	9599.3	9660.0	9706.3	9689.0	9706.3	9726.6	9729.5	9735.3	9712.1	9703.4
5°	10551.1	10461.4	10287.8	10163.4	10018.8	9755.5	9625.3	9639.8	9642.7	9634.0	9645.6
7.5°	10733.4	10724.7	10663.9	10637.9	10539.5	10351.5	10050.6	9998.5	9871.2	9790.2	9723.7
10°	10276.3	10484.6	10539.5	10632.1	10690.0	10655.3	10400.7	10363.1	10282.1	10189.5	10209.7
12.5°	9781.5	9952.2	9960.9	10464.3	10577.1	10588.7	10490.4	10542.4	10554.0	10345.7	10224.2
15°	9174.0	9255.0	9425.7	9894.4	10235.8	10449.9	10513.5	10542.4	10400.7	10392.0	10342.8
17.5°	8907.8	8959.9	9038.0	9301.3	9819.2	10134.5	10403.6	10383.3	10438.3	10397.8	10273.4
20°	8572.2	8615.6	8754.5	8887.6	9142.2	9561.7	10065.1	10102.7	10175.0	10166.3	10201.0
22.5°	8566.4	8413.1	8436.3	8540.4	8806.6	9182.7	9717.9	9842.3	9888.6	9920.4	9958.0
25°	6795.9	8013.9	8236.6	8303.2	8476.8	8696.6	9327.3	9373.6	9460.4	9602.2	9706.3
27.5°	5887.4	6714.9	7605.9	8068.8	8178.8	8361.0	8737.1	8806.6	9101.7	9136.4	9298.4
30°	4646.3	5285.7	6616.5	7730.3	7912.6	8039.9	8306.1	8444.9	8572.2	8711.1	8881.8
32.5°	4371.5	4472.7	5210.5	6396.6	7814.2	7718.8	7915.5	7999.4	8138.3	8259.8	8384.2
35°	4119.8	4189.2	4345.4	5239.4	6364.8	7455.5	7588.6	7643.6	7721.7	7814.2	7903.9
37.5°	3856.5	3960.6	4067.7	4307.8	5887.4	7247.2	7244.3	7308.0	7354.2	7432.4	7507.6
40°	700.1	3636.6	3810.2	3966.4	4565.3	5780.4	6920.3	6949.2	6981.0	7030.2	7108.3
42.5°	112.8	607.5	3570.1	3720.5	3891.2	5175.7	6772.7	6654.1	6633.9	6668.6	6738.0
45°	57.9	147.5	717.5	3474.6	3627.9	4128.4	5537.4	6448.7	6428.5	6361.9	6376.4
47.5°	43.4	92.6	176.5	1200.6	3396.5	3544.0	5109.2	5054.2	5439.0	6176.8	6063.9
50°	37.6	63.6	104.2	245.9	3000.1	3263.4	3934.6	4597.1	4799.6	4825.7	5711.0
52.5°	34.7	43.4	75.2	159.1	630.7	3017.5	3199.8	3431.2	3772.6	4504.5	4487.2
55°	31.8	40.5	63.6	107.0	219.9	2719.5	2907.6	2951.0	3023.3	3373.3	3836.2
57.5°	17.4	37.6	60.8	92.6	164.9	497.6	2638.5	2673.2	2731.1	2745.5	2910.5
60°	8.7	34.7	55.0	81.0	121.5	231.4	2372.3	2412.8	2447.6	2453.3	2505.4
62.5°	5.8	31.8	46.3	75.2	101.3	164.9	561.3	1145.7	2178.5	2178.5	2239.3
65°	5.8	23.1	28.9	49.2	92.6	136.0	237.2	274.8	535.2	1316.4	1964.4
67.5°	5.8	8.7	26.0	40.5	69.4	104.2	173.6	202.5	243.0	277.7	515.0
70°	5.8	5.8	23.1	26.0	43.4	78.1	124.4	141.8	164.9	188.1	217.0
72.5°	5.8	5.8	20.3	20.3	28.9	52.1	95.5	104.2	118.6	133.1	153.3
75°	14.5	11.6	17.4	17.4	20.3	40.5	72.3	81.0	86.8	98.4	112.8
77.5°	14.5	14.5	14.5	14.5	14.5	26.0	46.3	52.1	60.8	66.5	78.1
80°	11.6	11.6	11.6	14.5	14.5	17.4	28.9	31.8	34.7	43.4	46.3
82.5°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	17.4	20.3	26.0
85°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	11.6	11.6	11.6	11.6
87.5°	8.7	8.7	8.7	5.8	5.8	8.7	8.7	8.7	8.7	8.7	8.7
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-LD5-200HL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8
2.5°	9700.5	9683.2	9668.7	9677.4	9651.4	9639.8	9648.5	9651.4	9657.1	9671.6	9674.5
5°	9674.5	9668.7	9694.8	9709.2	9703.4	9709.2	9709.2	9697.6	9680.3	9691.9	9665.8
7.5°	9657.1	9619.5	9590.6	9596.4	9567.5	9602.2	9634.0	9680.3	9694.8	9694.8	9665.8
10°	9955.1	9914.6	9752.6	9642.7	9570.4	9506.7	9657.1	9503.8	9576.1	9301.3	9616.6
12.5°	10201.0	10256.0	10183.7	9882.8	9830.7	9639.8	9749.7	9561.7	9506.7	9191.4	9292.6
15°	10299.4	10195.3	10172.1	10088.2	9975.4	9920.4	9625.3	9593.5	9503.8	9538.5	9405.4
17.5°	10212.6	10264.7	10195.3	10140.3	10024.6	9894.4	9717.9	9561.7	9437.3	9159.5	9393.9
20°	10128.7	10198.2	9989.9	10024.6	10036.1	9885.7	9793.1	9662.9	9506.7	9246.3	9043.8
22.5°	9989.9	9940.7	9958.0	9906.0	9862.6	9882.8	9755.5	9665.8	9402.6	9283.9	9009.1
25°	9764.2	9746.8	9793.1	9787.3	9683.2	9648.5	9584.8	9489.3	9385.2	9194.3	8968.6
27.5°	9396.8	9486.5	9567.5	9605.1	9550.1	9457.5	9422.8	9367.8	9295.5	9101.7	8933.9
30°	9009.1	9110.4	9202.9	9283.9	9333.1	9292.6	9260.8	9229.0	9119.0	8991.7	8803.7
32.5°	8566.4	8699.5	8826.8	8925.2	9032.2	9064.1	9040.9	9014.9	8922.3	8806.6	8656.1
35°	8054.4	8236.6	8421.8	8598.3	8644.6	8719.8	8795.0	8751.6	8702.4	8586.7	8447.8
37.5°	7620.4	7750.6	7883.7	8106.4	8268.5	8363.9	8497.0	8514.4	8430.5	8375.5	8193.2
40°	7172.0	7290.6	7484.4	7614.6	7837.4	7947.3	8089.1	8152.7	8132.5	8100.7	7941.5
42.5°	6819.0	6876.9	7004.2	7119.9	7339.8	7565.4	7689.8	7759.3	7831.6	7805.6	7724.6
45°	6442.9	6495.0	6538.4	6639.6	6853.7	7053.4	7206.7	7310.8	7441.0	7501.8	7403.4
47.5°	6069.7	6084.2	6136.3	6220.2	6347.4	6500.8	6758.3	6914.5	7036.0	7154.6	7091.0
50°	5783.3	5731.2	5739.9	5792.0	5896.1	6046.6	6231.7	6451.6	6590.5	6735.1	6749.6
52.5°	5054.2	5476.6	5375.4	5404.3	5459.3	5531.6	5725.4	5942.4	6113.1	6237.5	6361.9
55°	4241.3	4325.2	5138.1	5022.4	5057.1	5120.8	5210.5	5427.4	5592.3	5765.9	5939.5
57.5°	3289.4	3914.4	3946.2	4698.4	4681.0	4686.8	4762.0	4886.4	5051.3	5268.3	5415.9
60°	2557.5	2820.8	3332.8	3593.2	4252.8	4276.0	4319.4	4391.7	4533.5	4738.9	4973.2
62.5°	2256.6	2291.3	2473.6	2864.2	3292.3	3810.2	3902.8	3914.4	3978.0	4183.4	4455.4
65°	1981.8	2004.9	2059.9	2100.4	2459.1	2959.6	3405.2	3477.5	3518.0	3639.5	3871.0
67.5°	1365.5	1727.2	1776.4	1805.3	1840.0	2071.5	2624.0	2991.5	3037.7	3144.8	3347.3
70°	263.3	546.8	1495.7	1527.6	1544.9	1597.0	1686.7	2271.1	2577.7	2679.0	2771.6
72.5°	179.4	211.2	254.6	601.8	1273.0	1301.9	1322.1	1397.4	1915.2	2210.3	2259.5
75°	130.2	144.7	170.7	211.2	260.4	847.7	1050.2	1087.8	1125.4	1553.6	1802.4
77.5°	92.6	104.2	115.7	136.0	159.1	205.4	295.1	813.0	850.6	870.8	1229.6
80°	52.1	63.6	78.1	89.7	101.3	115.7	150.4	188.1	419.5	613.3	645.2
82.5°	28.9	34.7	40.5	49.2	55.0	69.4	83.9	101.3	133.1	196.7	416.6
85°	14.5	14.5	14.5	20.3	23.1	31.8	37.6	43.4	60.8	83.9	115.7
87.5°	8.7	8.7	11.6	11.6	11.6	14.5	14.5	14.5	17.4	26.0	37.6
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-LD5-200HL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	9639.8	9639.8	9639.8	9639.8	9639.8
2.5°	9677.4	9668.7	9668.7	9703.4	9694.8
5°	9660.0	9651.4	9648.5	9686.1	9668.7
7.5°	9645.6	9613.7	9605.1	9639.8	9625.3
10°	9587.7	9564.6	9579.0	9567.5	9561.7
12.5°	9489.3	9474.9	9414.1	9419.9	9469.1
15°	9312.9	9370.7	9266.6	9359.2	9379.4
17.5°	8988.8	9119.0	9220.3	9275.3	9283.9
20°	9133.5	9176.9	9124.8	9127.7	9162.4
22.5°	8945.4	8965.7	8980.2	8962.8	9038.0
25°	8644.6	8566.4	8734.2	8769.0	8890.5
27.5°	8552.0	8488.3	8566.4	8560.7	8661.9
30°	8476.8	8271.4	8306.1	8361.0	8485.4
32.5°	8369.7	8045.7	8011.0	8132.5	8271.4
35°	8181.7	7875.0	7794.0	7872.1	8080.4
37.5°	8022.5	7637.8	7475.8	7579.9	7851.9
40°	7785.3	7452.6	7200.9	7293.5	7614.6
42.5°	7501.8	7293.5	6905.8	6969.5	7336.9
45°	7215.4	7030.2	6619.4	6651.2	7088.1
47.5°	6923.2	6752.5	6321.4	6327.2	6769.8
50°	6636.8	6411.1	6055.2	5954.0	6431.3
52.5°	6263.5	6055.2	5786.2	5621.3	6110.2
55°	5910.6	5676.2	5479.5	5224.9	5745.7
57.5°	5566.3	5305.9	5172.9	4845.9	5332.0
60°	5094.7	4970.3	4773.6	4461.2	4958.8
62.5°	4611.6	4571.1	4371.5	4047.4	4498.8
65°	4047.4	4142.9	3937.5	3659.8	4021.4
67.5°	3515.1	3685.8	3460.1	3289.4	3561.4
70°	2948.1	3144.8	3017.5	2956.7	3072.5
72.5°	2389.7	2580.6	2592.2	2548.8	2586.4
75°	1845.8	2057.0	2172.7	2106.2	2114.9
77.5°	1400.3	1501.5	1628.8	1680.9	1669.3
80°	865.0	1041.5	1145.7	1252.7	1215.1
82.5°	436.9	584.4	711.7	827.4	772.5
85°	182.3	234.3	326.9	431.1	413.7
87.5°	55.0	92.6	98.4	138.9	130.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)