

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-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33524)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-200HL-RM-UNV-L935-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14549.0 lumens
Efficiency: N/A
Efficacy: 92.1 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

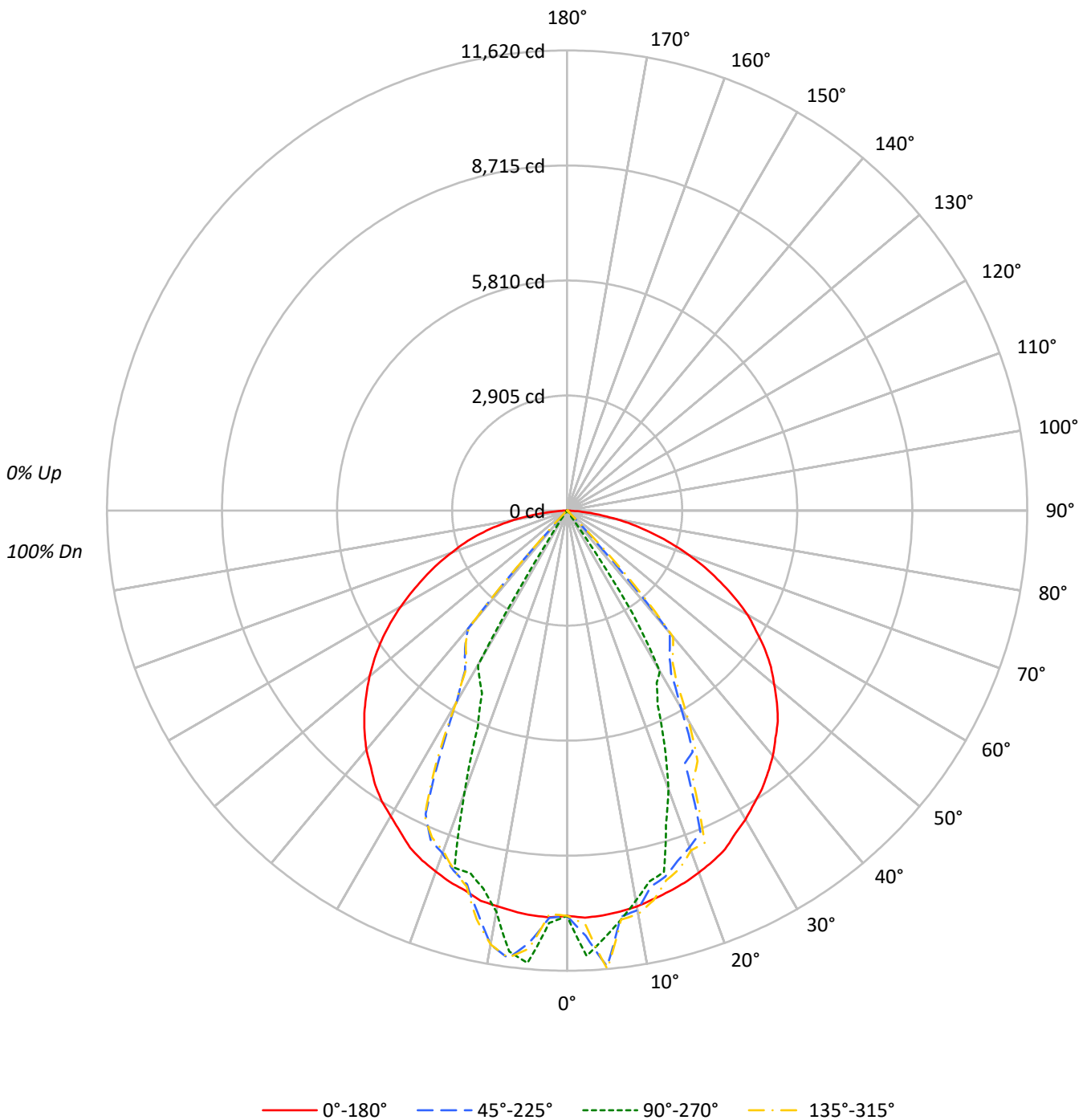
Input Watts (W): 158
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65					65			
5	85	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45					45			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	41342	41342	41342	41342
5°	41568	42520	41556	45028
10°	41525	38476	41500	39587
15°	41471	35913	41369	36006
20°	41581	28287	41462	28636
25°	41766	20471	41562	19317
30°	41646	17957	41206	17262
35°	41848	396	41233	480
40°	42079	86	41072	86
45°	42329	51	40740	38
50°	42126	40	40193	40
55°	42023	28	39442	28
60°	41413	30	38175	30
65°	39486	49	36673	32
70°	36941	54	35167	54
75°	33113	60	33656	60
80°	27566	68	29142	68
85°	17272	81	17634	81



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1026.5	7.1
10°-20°	2800.1	19.2
20°-30°	3563.0	24.5
30°-40°	3009.8	20.7
40°-50°	1967.7	13.5
50°-60°	1239.8	8.5
60°-70°	660.0	4.5
70°-80°	240.6	1.7
80°-90°	41.4	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°	7389.6	50.8
0°-40°	10399.4	71.5
0°-60°	13607.0	93.5
0°-90°	14549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14549.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	10232	10232	10232	10232	10232	
5°	10263	10828	10260	11466	10263	976
15°	9956	9449	9931	9474	9956	2814
25°	9437	5395	9390	5091	9437	4340
35°	8577	101	8451	123	8577	5365
45°	7524	12	7241	9	7524	5786
55°	6099	6	5724	6	6099	5434
65°	4268	9	3964	6	4268	4227
75°	2245	9	2282	9	2245	2383
85°	439	9	448	9	439	555
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9
2.5°	10290.3	10296.4	10299.5	10305.6	10314.9	10317.9	10324.1	10317.9	10317.9	10317.9	10317.9
5°	10262.7	10274.9	10284.1	10296.4	10317.9	10321.0	10345.6	10348.6	10360.9	10385.5	10403.9
7.5°	10216.6	10228.9	10247.3	10278.0	10308.7	10342.5	10385.5	10431.5	10496.0	10557.5	10634.2
10°	10149.0	10164.4	10185.9	10213.5	10364.0	10385.5	10480.7	10612.7	10649.6	10843.0	10987.4
12.5°	10050.8	10103.0	10158.2	10182.8	10327.1	10554.4	10873.7	10809.3	10738.6	11371.2	11362.0
15°	9955.6	10026.2	9998.6	10198.2	10330.2	10726.3	10591.2	10879.9	11408.1	11279.1	11285.2
17.5°	9854.2	9869.6	10023.1	10189.0	10425.4	10628.1	10793.9	11190.0	11294.4	11303.7	11190.0
20°	9725.3	9799.0	10023.1	10173.6	10572.8	10668.0	11027.3	11230.0	11187.0	11082.6	10889.1
22.5°	9593.2	9817.4	10044.6	10256.5	10536.0	10790.8	10968.9	11064.1	10840.0	10428.5	10207.4
25°	9436.6	9568.6	9866.5	10176.7	10526.7	10674.1	10778.5	10625.0	10333.3	9964.8	9593.2
27.5°	9194.0	9405.9	9786.7	10136.7	10453.0	10631.2	10462.3	10093.8	9623.9	9381.3	9212.4
30°	9006.7	9283.1	9596.3	9934.1	10262.7	10367.1	9937.1	9516.4	9194.0	8951.4	8914.6
32.5°	8779.5	9172.5	9470.4	9792.8	10069.2	9931.0	9513.4	8969.8	8702.7	8610.6	8647.4
35°	8576.8	8874.6	9264.6	9580.9	9780.5	9470.4	8810.2	8472.4	8343.4	8395.6	8328.0
37.5°	8334.2	8727.2	9086.5	9359.8	9292.3	8825.5	8266.6	8051.7	8067.0	8024.0	7895.1
40°	8082.4	8457.0	8831.7	9089.6	8853.2	8140.7	7769.2	7723.1	7732.3	7594.1	7409.9
42.5°	7787.6	8128.4	8503.1	8736.5	8226.7	7670.9	7419.1	7425.2	7345.4	7151.9	7053.7
45°	7523.5	7836.7	8226.7	8248.2	7621.8	7158.1	7084.4	7004.5	6826.4	6761.9	6688.2
47.5°	7185.7	7532.7	7855.1	7738.4	7029.1	6740.4	6685.2	6510.1	6421.1	6371.9	6310.5
50°	6826.4	7176.5	7471.3	7139.6	6470.2	6402.6	6221.5	6083.3	6021.9	5969.7	5914.4
52.5°	6485.6	6774.2	7075.2	6504.0	6040.3	5975.8	5770.1	5690.2	5628.8	5570.5	5558.2
55°	6098.6	6353.5	6559.3	5899.0	5628.8	5478.3	5330.9	5275.7	5217.3	5189.7	5235.7
57.5°	5659.5	5948.2	5917.5	5303.3	5183.5	4965.5	4910.2	4873.4	4830.4	4848.8	4465.0
60°	5263.4	5484.5	5334.0	4867.2	4664.6	4517.2	4468.0	4443.5	4468.0	4093.4	3599.0
62.5°	4775.1	5023.8	4719.8	4357.5	4142.5	4071.9	4028.9	4062.7	3703.4	3291.9	3172.1
65°	4268.4	4538.7	4090.3	3810.9	3675.8	3614.3	3611.3	3325.7	2972.5	2812.9	2812.9
67.5°	3780.2	4059.6	3482.3	3248.9	3196.7	3202.9	3024.7	2591.8	2493.5	2386.0	2075.9
70°	3261.2	3506.9	2877.4	2736.1	2705.4	2683.9	2250.9	2134.2	2017.5	1731.9	1707.4
72.5°	2745.3	2865.1	2312.3	2278.5	2272.4	1888.5	1802.6	1603.0	1467.8	1434.1	1418.7
75°	2244.8	2207.9	1827.1	1857.8	1566.1	1431.0	1292.8	1176.1	1157.7	1145.4	285.6
77.5°	1771.9	1587.6	1440.2	1252.9	1120.8	952.0	924.3	905.9	595.7	215.0	175.0
80°	1289.7	1028.7	958.1	813.8	694.0	666.4	681.7	208.8	165.8	138.2	119.8
82.5°	819.9	657.2	537.4	469.8	457.6	199.6	147.4	119.8	104.4	89.1	73.7
85°	439.1	291.7	270.2	227.2	135.1	92.1	76.8	58.3	49.1	39.9	36.8
87.5°	138.2	116.7	95.2	76.8	46.1	30.7	24.6	21.5	18.4	15.4	15.4
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°	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9
2.5°	10311.8	10317.9	10314.9	10324.1	10324.1	10336.4	10345.6	10354.8	10373.2	10382.4	10453.0
5°	10443.8	10459.2	10505.2	10548.2	10600.4	10615.8	10704.9	10726.3	10830.8	10843.0	11187.0
7.5°	10738.6	10797.0	10907.5	11018.1	11128.6	11199.3	11322.1	11398.9	11481.8	11555.5	11828.8
10°	11094.8	11193.1	11300.6	11411.1	11475.6	11610.7	11684.4	11696.7	11675.2	11555.5	11113.3
12.5°	11444.9	11543.2	11497.1	11518.6	11595.4	11355.9	11389.6	11217.7	11337.4	10744.8	10305.6
15°	11395.8	11389.6	11276.0	10907.5	10968.9	10511.4	10327.1	10185.9	10299.5	10238.1	10170.5
17.5°	11248.4	10968.9	10772.4	10330.2	10142.9	10013.9	10017.0	10020.1	9964.8	10023.1	9851.2
20°	10625.0	10311.8	10020.1	9863.4	9808.2	9716.0	9762.1	9716.0	9719.1	9737.5	9473.5
22.5°	9795.9	9700.7	9531.8	9580.9	9562.5	9645.4	9584.0	9488.8	9519.5	9381.3	9181.7
25°	9461.2	9350.6	9344.5	9362.9	9335.3	9298.4	9243.1	9098.8	9089.6	9046.6	8954.5
27.5°	9123.4	9129.5	9147.9	9092.7	8994.4	8920.7	8837.8	8767.2	8794.8	8745.7	8619.8
30°	8890.0	8886.9	8776.4	8727.2	8546.1	8549.1	8527.6	8484.7	8457.0	8460.1	8380.2
32.5°	8558.4	8463.2	8337.3	8275.8	8260.5	8205.2	8162.2	8171.4	8192.9	8116.2	8199.1
35°	8217.5	8021.0	8002.5	7950.3	7901.2	7864.3	7879.7	7818.3	7815.2	7806.0	7130.4
37.5°	7759.9	7664.7	7655.5	7600.3	7566.5	7557.3	7498.9	7508.1	7535.8	7584.9	6080.2
40°	7382.2	7296.2	7274.8	7271.7	7198.0	7191.8	7207.2	7265.5	7305.5	6998.4	5794.6
42.5°	6976.9	6983.0	6915.5	6872.5	6881.7	6909.3	6983.0	6780.4	5874.5	5598.1	5297.2
45°	6629.9	6599.2	6562.3	6550.0	6629.9	6574.6	5763.9	5318.6	5211.2	5198.9	4354.4
47.5°	6267.5	6258.3	6243.0	6252.2	5797.7	5168.2	4983.9	4925.6	4944.0	4931.7	3740.2
50°	5902.1	5914.4	5914.4	5165.1	4741.3	4636.9	4652.3	4704.5	4379.0	4087.3	3485.4
52.5°	5585.8	5490.6	4704.5	4434.3	4339.1	4385.1	4274.6	3866.2	3571.4	3399.4	3224.4
55°	4999.3	4299.1	4124.1	4081.1	4114.9	3706.5	3454.7	3190.6	3113.8	3095.4	2994.0
57.5°	3933.7	3792.5	3807.8	3635.8	3245.8	3015.5	2914.2	2877.4	2843.6	2819.0	245.7
60°	3479.2	3519.2	3221.3	2852.8	2696.2	2665.5	2640.9	2607.1	2601.0	2558.0	156.6
62.5°	3184.4	2800.6	2542.6	2450.5	2413.7	2404.4	2358.4	2343.0	1989.9	273.3	116.7
65°	2401.4	2244.8	2195.6	2174.1	2134.2	2134.2	1771.9	279.4	227.2	196.5	104.4
67.5°	1959.2	1946.9	1922.3	1894.7	1289.7	270.2	236.5	205.7	178.1	156.6	92.1
70°	1658.2	1652.1	1504.7	276.4	230.3	202.7	178.1	159.7	147.4	132.0	82.9
72.5°	1360.4	276.4	233.4	202.7	175.0	159.7	144.3	129.0	116.7	107.5	67.6
75°	211.9	187.3	165.8	150.5	138.2	122.8	110.5	101.3	98.3	86.0	46.1
77.5°	153.5	132.0	119.8	107.5	95.2	86.0	73.7	64.5	58.3	49.1	33.8
80°	107.5	95.2	86.0	70.6	61.4	52.2	46.1	39.9	36.8	30.7	15.4
82.5°	61.4	52.2	46.1	36.8	33.8	27.6	24.6	21.5	21.5	15.4	15.4
85°	27.6	27.6	21.5	18.4	15.4	15.4	15.4	12.3	12.3	9.2	9.2
87.5°	12.3	12.3	12.3	12.3	12.3	9.2	9.2	9.2	9.2	9.2	6.1
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°	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9
2.5°	10551.3	10591.2	10668.0	10747.8	10658.8	10978.2	10953.6	11061.1	11119.4	11147.0	11211.5
5°	11491.0	11669.1	11727.4	11552.4	11451.1	11346.6	11110.2	10932.1	10953.6	10895.2	10683.4
7.5°	11472.6	11091.8	10578.9	10345.6	10327.1	10299.5	10373.2	10416.2	10422.3	10419.3	10413.1
10°	10502.2	10305.6	10271.9	10241.2	10253.4	10139.8	10087.6	9940.2	10020.1	9977.1	9992.4
12.5°	10207.4	10161.3	9980.1	9728.3	9878.8	9765.2	9700.7	9743.7	9694.6	9648.5	9633.1
15°	10032.3	9734.5	9633.1	9571.7	9528.7	9504.2	9525.7	9476.5	9461.2	9452.0	9473.5
17.5°	9670.0	9550.2	9439.7	9276.9	9280.0	9270.8	9332.2	9424.3	9430.5	8957.6	8530.7
20°	9384.4	9286.1	9144.9	9043.5	9181.7	8936.1	7987.2	7535.8	7465.1	7465.1	7477.4
22.5°	9157.2	8939.1	8948.3	8788.7	7495.9	7231.8	7237.9	7265.5	7139.6	6709.7	6663.7
25°	8847.0	8813.2	8140.7	7035.2	7044.4	6838.7	6522.4	6077.1	5595.0	5595.0	5515.2
27.5°	8613.6	7898.1	6915.5	6869.4	6178.5	5742.4	5472.2	5063.8	5008.5	4956.3	4962.4
30°	8414.0	6682.1	6706.7	5742.4	5232.7	4870.3	4848.8	4781.3	4747.5	4738.3	4704.5
32.5°	6651.4	6507.1	5613.4	4888.7	4689.1	4630.8	4603.1	4526.4	4523.3	4465.0	4059.6
35°	6236.8	5711.7	4698.3	4501.8	4443.5	4388.2	4342.1	2914.2	343.9	138.2	119.8
37.5°	5763.9	4772.0	4345.2	4256.1	4200.9	3104.6	310.2	107.5	76.8	55.3	49.1
40°	4885.7	4262.3	4127.2	4028.9	1661.3	107.5	67.6	52.2	30.7	27.6	24.6
42.5°	4121.0	4016.6	3872.3	1179.2	122.8	52.2	33.8	24.6	21.5	21.5	18.4
45°	3856.9	3764.8	1560.0	116.7	76.8	24.6	21.5	21.5	18.4	12.3	12.3
47.5°	3611.3	3178.3	141.3	73.7	49.1	21.5	18.4	12.3	12.3	12.3	9.2
50°	3350.3	175.0	98.3	55.3	30.7	12.3	12.3	12.3	12.3	9.2	9.2
52.5°	626.4	122.8	79.8	49.1	15.4	12.3	12.3	12.3	9.2	9.2	9.2
55°	147.4	98.3	73.7	43.0	12.3	12.3	12.3	9.2	9.2	9.2	6.1
57.5°	110.5	73.7	58.3	39.9	12.3	9.2	9.2	9.2	9.2	9.2	6.1
60°	92.1	52.2	46.1	36.8	9.2	9.2	9.2	9.2	9.2	9.2	6.1
62.5°	64.5	43.0	33.8	27.6	9.2	9.2	9.2	9.2	9.2	9.2	9.2
65°	52.2	33.8	27.6	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
67.5°	46.1	27.6	18.4	6.1	9.2	9.2	9.2	9.2	9.2	9.2	9.2
70°	36.8	9.2	9.2	6.1	9.2	9.2	9.2	9.2	9.2	9.2	9.2
72.5°	30.7	9.2	6.1	6.1	9.2	9.2	9.2	9.2	9.2	9.2	9.2
75°	30.7	15.4	6.1	6.1	9.2	9.2	12.3	12.3	9.2	9.2	9.2
77.5°	21.5	15.4	6.1	6.1	9.2	9.2	12.3	12.3	9.2	9.2	9.2
80°	12.3	15.4	6.1	9.2	9.2	18.4	21.5	12.3	9.2	9.2	9.2
82.5°	12.3	15.4	18.4	18.4	9.2	15.4	18.4	15.4	12.3	9.2	9.2
85°	12.3	9.2	12.3	15.4	9.2	15.4	15.4	12.3	12.3	9.2	9.2
87.5°	6.1	9.2	9.2	12.3	12.3	12.3	15.4	12.3	12.3	12.3	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9
2.5°	11242.2	11254.5	11061.1	10993.5	11051.9	11039.6	10987.4	10793.9	10772.4	10643.4	10456.1
5°	10744.8	10827.7	10726.3	10901.4	10818.5	10901.4	11153.2	11269.9	11460.3	11577.0	11620.0
7.5°	10397.8	10416.2	10416.2	10431.5	10446.9	10450.0	10431.5	10419.3	10367.1	10302.6	10419.3
10°	9977.1	9998.6	10035.4	10029.3	10026.2	10090.7	10106.0	10238.1	10231.9	10256.5	10345.6
12.5°	9759.0	9593.2	9743.7	9703.8	9759.0	9673.1	9832.7	9805.1	9814.3	9888.0	10078.4
15°	9396.7	9448.9	9485.7	9485.7	9507.2	9488.8	9470.4	9596.3	9673.1	9676.1	9663.8
17.5°	8699.6	8303.5	8708.8	8604.4	9436.6	9458.1	9387.5	9329.1	9329.1	9375.2	9473.5
20°	7468.2	7477.4	7480.5	7520.4	7569.6	7566.5	7569.6	8779.5	9353.7	9221.6	9132.6
22.5°	6547.0	6433.4	6645.2	6629.9	6894.0	7185.7	7465.1	7437.5	7455.9	8309.6	9077.3
25°	5248.0	5395.4	5275.7	5327.9	5625.7	5972.7	6187.7	6749.6	7360.7	7317.7	7517.3
27.5°	4940.9	4901.0	4956.3	4956.3	4996.2	5042.3	5162.0	5478.3	6021.9	6593.0	7133.5
30°	4649.2	4683.0	4689.1	4744.4	4775.1	4805.8	4824.2	4944.0	5066.8	5463.0	6129.3
32.5°	3491.5	3061.6	4028.9	4289.9	4511.0	4563.2	4600.1	4649.2	4738.3	4796.6	5131.3
35°	101.3	101.3	107.5	122.8	156.6	1056.4	4022.8	4434.3	4492.6	4566.3	4627.7
37.5°	49.1	36.8	43.0	46.1	55.3	76.8	110.5	343.9	3829.3	4329.8	4397.4
40°	21.5	21.5	21.5	21.5	24.6	30.7	46.1	76.8	116.7	3080.0	4154.8
42.5°	18.4	18.4	18.4	18.4	18.4	18.4	21.5	27.6	55.3	132.0	2180.3
45°	12.3	12.3	9.2	12.3	12.3	15.4	18.4	18.4	24.6	82.9	150.5
47.5°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	15.4	18.4	55.3	79.8
50°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	43.0	55.3
52.5°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	18.4	49.1
55°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	9.2	9.2	12.3	43.0
57.5°	6.1	6.1	6.1	6.1	6.1	9.2	6.1	6.1	9.2	9.2	39.9
60°	6.1	6.1	6.1	6.1	6.1	9.2	9.2	9.2	9.2	9.2	36.8
62.5°	9.2	9.2	6.1	9.2	6.1	6.1	9.2	9.2	9.2	9.2	24.6
65°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	6.1	9.2
67.5°	9.2	9.2	9.2	9.2	6.1	9.2	6.1	9.2	9.2	6.1	6.1
70°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	6.1	6.1	6.1	6.1
72.5°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	6.1	6.1	6.1	6.1
75°	9.2	9.2	9.2	9.2	9.2	9.2	12.3	12.3	6.1	6.1	6.1
77.5°	9.2	9.2	9.2	9.2	9.2	9.2	15.4	18.4	15.4	15.4	6.1
80°	9.2	9.2	9.2	9.2	9.2	9.2	15.4	15.4	15.4	15.4	21.5
82.5°	9.2	9.2	9.2	9.2	9.2	9.2	12.3	12.3	12.3	12.3	15.4
85°	9.2	9.2	9.2	9.2	9.2	9.2	12.3	12.3	12.3	9.2	12.3
87.5°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	12.3	9.2	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9
2.5°	10471.5	10367.1	10333.3	10262.7	10256.5	10262.7	10247.3	10225.8	10238.1	10216.6	10198.2
5°	11644.5	11365.1	11183.9	10941.3	10606.6	10532.9	10514.5	10410.1	10373.2	10360.9	10311.8
7.5°	10695.6	11205.4	11512.5	11616.9	11223.8	11131.7	11024.2	10938.2	10855.3	10698.7	10603.5
10°	10274.9	10299.5	10594.3	10938.2	11497.1	11573.9	11632.2	11444.9	11392.7	10993.5	10907.5
12.5°	10176.7	10179.7	10213.5	10422.3	10861.5	10910.6	11116.3	11226.9	11362.0	11438.8	11377.4
15°	9728.3	9977.1	10161.3	10179.7	10219.7	10305.6	10367.1	10750.9	10913.7	11349.7	11325.2
17.5°	9519.5	9599.4	9866.5	10084.5	10047.7	10017.0	10066.1	10118.3	10274.9	10711.0	10704.9
20°	9172.5	9427.4	9571.7	9799.0	10004.7	10013.9	9958.6	9927.9	9866.5	9937.1	10001.6
22.5°	9025.1	9065.0	9335.3	9495.0	9728.3	9811.2	9823.5	9826.6	9792.8	9756.0	9737.5
25°	9009.8	8883.9	9022.0	9221.6	9393.6	9482.7	9584.0	9617.8	9605.5	9605.5	9587.1
27.5°	7373.0	8843.9	8770.2	8902.3	9111.1	9172.5	9224.7	9329.1	9393.6	9439.7	9461.2
30°	7022.9	7287.0	8573.7	8592.1	8804.0	8797.9	8856.2	8942.2	9025.1	9132.6	9160.2
32.5°	6212.3	6860.2	7849.0	8282.0	8503.1	8524.6	8555.3	8579.8	8656.6	8776.4	8880.8
35°	4977.8	6249.1	6725.1	8134.6	8174.5	8217.5	8235.9	8294.3	8318.8	8368.0	8460.1
37.5°	4504.9	5165.1	6451.8	7035.2	7796.8	7833.6	7931.9	7956.5	7996.4	8036.3	8106.9
40°	4231.6	4412.8	5370.8	6282.9	7492.8	7517.3	7551.1	7612.5	7615.6	7661.7	7726.2
42.5°	4013.6	4130.2	4409.7	6000.4	7277.8	7274.8	7194.9	7234.8	7253.3	7302.4	7391.4
45°	3205.9	3875.4	4053.5	4901.0	5794.6	6212.3	7013.7	6881.7	6878.6	6897.0	6992.2
47.5°	162.8	3645.1	3771.0	4044.3	5472.2	5487.5	5591.9	6470.2	6605.3	6562.3	6571.5
50°	110.5	251.8	3513.0	3638.9	4716.8	5097.5	5174.3	5214.2	5720.9	6286.0	6193.8
52.5°	86.0	144.3	2152.6	3377.9	3832.4	4111.8	4606.2	4888.7	4919.4	5146.7	5917.5
55°	76.8	110.5	233.4	3116.9	3258.1	3319.5	3608.2	4102.6	4501.8	4621.6	4630.8
57.5°	67.6	101.3	159.7	1409.5	2963.3	2975.6	3024.7	3196.7	3556.0	3884.6	4256.1
60°	61.4	89.1	125.9	242.6	2693.1	2723.8	2733.0	2779.1	2822.1	3046.2	3473.1
62.5°	36.8	70.6	110.5	175.0	2131.1	2447.4	2444.4	2475.1	2515.0	2539.6	2625.5
65°	30.7	55.3	95.2	147.4	261.0	325.5	1977.6	2198.7	2223.3	2257.0	2272.4
67.5°	27.6	49.1	70.6	116.7	196.5	224.2	257.9	319.4	1744.2	1965.3	1996.0
70°	24.6	33.8	58.3	98.3	159.7	172.0	193.5	221.1	261.0	322.4	1578.4
72.5°	15.4	24.6	39.9	70.6	122.8	138.2	150.5	168.9	187.3	224.2	257.9
75°	6.1	18.4	33.8	52.2	95.2	104.4	113.6	125.9	141.3	165.8	184.2
77.5°	6.1	15.4	27.6	36.8	61.4	70.6	82.9	92.1	104.4	116.7	135.1
80°	21.5	12.3	18.4	27.6	43.0	46.1	52.2	58.3	67.6	76.8	89.1
82.5°	15.4	18.4	21.5	18.4	21.5	27.6	30.7	36.8	39.9	46.1	49.1
85°	12.3	12.3	15.4	15.4	15.4	15.4	15.4	15.4	18.4	21.5	27.6
87.5°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	12.3	12.3
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9
2.5°	10198.2	10192.0	10173.6	10173.6	10170.5	10182.8	10192.0	10201.2	10198.2	10216.6	10198.2
5°	10274.9	10259.6	10231.9	10207.4	10198.2	10204.3	10195.1	10204.3	10192.0	10207.4	10179.7
7.5°	10486.8	10434.6	10327.1	10284.1	10228.9	10225.8	10198.2	10192.0	10173.6	10173.6	10139.8
10°	10861.5	10609.7	10578.9	10450.0	10403.9	10179.7	10228.9	10146.0	10136.7	10096.8	10081.5
12.5°	11168.5	10972.0	10913.7	10800.0	10671.1	10216.6	10317.9	10139.8	10130.6	10050.8	9967.9
15°	11174.7	11288.3	11128.6	10815.4	10787.8	10474.5	10268.8	10207.4	10127.5	9888.0	9927.9
17.5°	10815.4	11076.4	11153.2	11085.6	10889.1	10677.2	10388.6	10265.7	10026.2	9918.7	9845.0
20°	10231.9	10496.0	10824.6	10846.1	10968.9	10818.5	10440.8	10241.2	9952.5	9765.2	9703.8
22.5°	9768.3	9961.7	10339.4	10514.5	10664.9	10717.1	10477.6	10182.8	9823.5	9642.3	9605.5
25°	9522.6	9565.6	9679.2	9884.9	10216.6	10456.1	10489.9	10176.7	9989.4	9593.2	9384.4
27.5°	9433.5	9396.7	9350.6	9455.0	9703.8	9995.5	10189.0	10241.2	9774.4	9396.7	9187.9
30°	9206.3	9227.8	9157.2	9120.3	9283.1	9584.0	9927.9	10013.9	9654.6	9264.6	9025.1
32.5°	8926.9	8963.7	8976.0	8911.5	8877.7	9086.5	9458.1	9663.8	9645.4	9077.3	8810.2
35°	8576.8	8681.2	8708.8	8711.9	8656.6	8622.8	8837.8	9264.6	9427.4	8991.3	8604.4
37.5°	8208.3	8239.0	8389.5	8429.4	8429.4	8328.0	8487.7	8828.6	9055.8	8797.9	8352.6
40°	7747.7	7845.9	7987.2	8057.8	8128.4	8137.7	8048.6	8288.1	8662.8	8598.3	8116.2
42.5°	7412.9	7477.4	7563.4	7658.6	7802.9	7839.8	7747.7	7790.6	8180.6	8349.5	7809.1
45°	7022.9	7108.9	7133.5	7237.9	7388.4	7495.9	7492.8	7403.7	7717.0	7925.8	7584.9
47.5°	6623.7	6706.7	6749.6	6801.8	6912.4	7050.6	7127.4	7087.4	7148.8	7557.3	7287.0
50°	6212.3	6258.3	6344.3	6402.6	6476.3	6556.2	6740.4	6777.3	6691.3	7016.8	6958.5
52.5°	5822.3	5837.6	5896.0	5954.3	6052.6	6110.9	6258.3	6368.9	6362.7	6457.9	6593.0
55°	5518.2	5450.7	5463.0	5509.0	5573.5	5662.6	5745.5	5917.5	5975.8	5994.2	6209.2
57.5°	4311.4	5005.4	5066.8	5063.8	5140.5	5180.5	5257.2	5370.8	5579.7	5533.6	5773.1
60°	3918.4	3995.1	4575.5	4643.1	4670.7	4707.6	4799.7	4904.1	5057.6	5155.9	5260.3
62.5°	2987.9	3454.7	3629.7	4142.5	4222.4	4243.9	4305.3	4354.4	4514.1	4738.3	4695.3
65°	2312.3	2511.9	3046.2	3255.1	3691.1	3746.4	3832.4	3884.6	3930.6	4188.6	4200.9
67.5°	1999.1	2029.8	2174.1	2576.4	2852.8	3279.6	3331.8	3377.9	3448.5	3632.8	3746.4
70°	1707.4	1744.2	1784.1	1817.9	2177.2	2459.7	2855.9	2871.2	2917.3	3040.1	3298.1
72.5°	322.4	1458.6	1483.2	1504.7	1544.6	1731.9	2109.6	2416.7	2435.2	2493.5	2730.0
75°	218.0	254.9	350.1	1203.8	1243.7	1256.0	1320.4	1704.3	1986.8	1999.1	2103.5
77.5°	156.6	175.0	211.9	251.8	641.8	964.2	979.6	1050.2	1341.9	1553.8	1572.3
80°	107.5	119.8	141.3	159.7	196.5	257.9	712.4	733.9	770.8	1062.5	1117.8
82.5°	61.4	70.6	82.9	101.3	116.7	147.4	190.4	245.7	500.5	534.3	709.4
85°	30.7	33.8	39.9	49.1	58.3	70.6	95.2	116.7	159.7	288.7	297.9
87.5°	15.4	15.4	15.4	15.4	24.6	27.6	33.8	43.0	55.3	82.9	107.5
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9
2.5°	10201.2	10244.2	10281.1	10290.3	10290.3	10296.4	10305.6	10311.8	10317.9	10324.1	10317.9
5°	10182.8	10228.9	10259.6	10268.8	10268.8	10287.2	10302.6	10321.0	10330.2	10330.2	10324.1
7.5°	10136.7	10170.5	10210.4	10235.0	10238.1	10268.8	10296.4	10293.4	10305.6	10311.8	10327.1
10°	10075.3	10075.3	10142.9	10161.3	10176.7	10210.4	10219.7	10238.1	10281.1	10287.2	10327.1
12.5°	10044.6	10013.9	10093.8	10103.0	10155.2	10112.2	10167.5	10185.9	10142.9	10201.2	10124.5
15°	9906.4	9943.3	9931.0	9958.6	10050.8	10001.6	10152.1	10103.0	10213.5	10081.5	10314.9
17.5°	9792.8	9786.7	9835.8	9860.4	9878.8	9983.2	10023.1	10078.4	10121.4	10084.5	10176.7
20°	9709.9	9660.8	9697.6	9725.3	9789.7	9869.6	9894.2	9811.2	9955.6	10201.2	10259.6
22.5°	9553.3	9519.5	9562.5	9562.5	9660.8	9648.5	9740.6	9688.4	9823.5	10109.1	10407.0
25°	9341.4	9344.5	9390.5	9445.8	9464.2	9602.4	9651.6	9719.1	9888.0	10228.9	10410.1
27.5°	9126.5	9108.0	9135.7	9249.3	9344.5	9445.8	9461.2	9691.5	9921.8	10155.2	10314.9
30°	8911.5	8893.1	8911.5	8994.4	9108.0	9175.6	9344.5	9651.6	9866.5	10026.2	10176.7
32.5°	8681.2	8662.8	8705.8	8767.2	8966.8	8976.0	9310.7	9599.4	9768.3	9884.9	9857.3
35°	8435.5	8411.0	8450.9	8546.1	8730.3	8797.9	9147.9	9362.9	9553.3	9608.6	9479.6
37.5°	8140.7	8097.7	8146.9	8278.9	8472.4	8668.9	8960.6	9209.4	9310.7	9163.3	9009.8
40°	7833.6	7802.9	7888.9	7956.5	8183.7	8457.0	8791.7	8966.8	8902.3	8733.4	8564.5
42.5°	7560.3	7495.9	7572.6	7701.6	7959.5	8269.7	8539.9	8638.2	8484.7	8235.9	8039.4
45°	7225.6	7148.8	7241.0	7412.9	7689.3	8042.5	8254.3	8220.6	7959.5	7744.6	7474.4
47.5°	6875.5	6783.4	6875.5	7081.3	7391.4	7766.1	7919.6	7766.1	7437.5	7167.3	6949.2
50°	6531.6	6424.1	6513.2	6823.3	7127.4	7416.0	7412.9	7115.1	6918.5	6623.7	6433.4
52.5°	6190.8	6037.2	6126.3	6464.1	6768.1	7096.6	6854.1	6577.7	6341.2	6083.3	6021.9
55°	5770.1	5604.2	5724.0	6215.3	6448.7	6642.2	6255.2	6012.6	5779.3	5650.3	5573.5
57.5°	5370.8	5189.7	5294.1	5874.5	6046.4	6095.6	5739.3	5395.4	5257.2	5214.2	5103.7
60°	4959.4	4753.6	4851.9	5521.3	5641.1	5441.5	5091.4	4824.2	4796.6	4710.6	4624.6
62.5°	4566.3	4339.1	4400.5	5082.2	5137.5	4775.1	4452.7	4382.0	4314.5	4228.5	4182.4
65°	4114.9	3878.4	3964.4	4615.4	4563.2	4096.5	3915.3	3899.9	3810.9	3740.2	3807.8
67.5°	3700.3	3420.9	3540.6	4105.7	3869.2	3488.4	3414.7	3377.9	3307.3	3347.2	2637.8
70°	3245.8	2941.8	3104.6	3556.0	3205.9	2954.1	2926.5	2871.2	2874.3	2284.7	1925.4
72.5°	2739.2	2475.1	2711.5	2954.1	2536.5	2462.8	2422.9	2416.7	1950.0	1584.5	1495.5
75°	2293.9	2026.7	2281.6	2373.7	2020.6	1971.5	1968.4	1627.5	1280.5	1222.2	1194.5
77.5°	1790.3	1584.5	1827.1	1688.9	1550.8	1495.5	1341.9	1007.2	964.2	924.3	347.0
80°	1206.8	1222.2	1363.4	1163.8	1105.5	942.7	743.1	712.4	614.2	245.7	193.5
82.5°	733.9	921.2	869.0	727.8	712.4	512.8	469.8	239.5	178.1	141.3	122.8
85°	380.8	466.8	448.3	396.1	294.8	264.1	147.4	113.6	92.1	70.6	58.3
87.5°	129.0	172.0	165.8	132.0	101.3	79.8	52.2	43.0	30.7	24.6	21.5
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9
2.5°	10311.8	10311.8	10305.6	10311.8	10314.9	10308.7	10308.7	10314.9	10317.9	10321.0	10336.4
5°	10327.1	10333.3	10342.5	10360.9	10364.0	10400.8	10416.2	10425.4	10434.6	10437.7	10416.2
7.5°	10360.9	10382.4	10400.8	10397.8	10376.3	10317.9	10299.5	10284.1	10311.8	10382.4	10465.3
10°	10391.6	10293.4	10109.1	10360.9	10284.1	10354.8	10563.6	10609.7	10750.9	10950.5	11008.9
12.5°	10179.7	10450.0	10508.3	10225.8	10747.8	10554.4	10784.7	10987.4	11045.7	11248.4	11125.6
15°	10407.0	10539.0	10628.1	10910.6	10879.9	11045.7	11110.2	11070.3	11079.5	11131.7	11269.9
17.5°	10403.9	10668.0	10726.3	10916.7	11045.7	11048.8	11030.4	11011.9	11061.1	11101.0	11018.1
20°	10582.0	10668.0	10781.6	10858.4	10883.0	10913.7	10972.0	10925.9	10833.8	10744.8	10707.9
22.5°	10493.0	10686.4	10784.7	10797.0	10781.6	10686.4	10600.4	10471.5	10428.5	10382.4	10397.8
25°	10511.4	10600.4	10588.2	10539.0	10474.5	10296.4	10253.4	10198.2	10115.3	9915.7	9734.5
27.5°	10379.3	10333.3	10278.0	10158.2	10041.6	9946.4	9838.9	9660.8	9513.4	9298.4	9218.6
30°	10158.2	9974.0	9838.9	9768.3	9654.6	9495.0	9332.2	9114.2	8926.9	8883.9	8843.9
32.5°	9734.5	9553.3	9442.7	9270.8	9077.3	8886.9	8699.6	8613.6	8573.7	8579.8	8543.0
35°	9301.5	9141.8	8976.0	8718.0	8573.7	8383.3	8315.8	8297.3	8260.5	8220.6	8177.6
37.5°	8840.9	8653.5	8404.8	8251.3	8106.9	8030.2	7996.4	7968.8	7904.3	7833.6	7784.5
40°	8395.6	8057.8	7919.6	7769.2	7726.2	7692.4	7643.3	7575.7	7486.6	7474.4	7452.9
42.5°	7799.9	7557.3	7437.5	7406.8	7354.6	7296.2	7253.3	7179.6	7142.7	7167.3	7185.7
45°	7234.8	7112.0	7072.1	7035.2	6937.0	6854.1	6826.4	6801.8	6832.6	6967.7	6645.2
47.5°	6777.3	6728.1	6679.0	6617.6	6525.5	6464.1	6491.7	6516.3	6543.9	5552.0	5066.8
50°	6381.1	6313.6	6236.8	6169.3	6114.0	6107.8	6252.2	5819.2	4873.4	4848.8	4357.5
52.5°	5948.2	5846.8	5800.8	5760.8	5785.4	5877.5	4864.2	4514.1	4329.8	3761.7	3509.9
55°	5481.4	5392.3	5392.3	5429.2	5297.2	4293.0	4240.8	3666.5	3319.5	3221.3	3181.4
57.5°	5014.6	5005.4	5057.6	4624.6	3896.9	3737.2	3141.4	3015.5	2960.3	2948.0	2883.5
60°	4587.8	4673.8	3912.2	3599.0	3129.2	2822.1	2736.1	2720.7	2662.4	2640.9	2582.6
62.5°	4246.9	3522.2	3279.6	2677.7	2521.1	2481.2	2435.2	2413.7	2361.5	2085.1	611.1
65°	3067.7	2898.8	2352.2	2250.9	2238.6	2180.3	2161.9	1943.8	457.6	307.1	261.0
67.5°	2315.4	2054.4	1983.7	1965.3	1907.0	1790.3	531.3	304.0	261.0	227.2	199.6
70°	1778.0	1731.9	1679.7	1636.7	482.1	300.9	261.0	221.1	190.4	168.9	153.5
72.5°	1455.6	1424.9	829.1	316.3	257.9	218.0	193.5	168.9	147.4	135.1	122.8
75°	1139.3	316.3	261.0	218.0	187.3	159.7	141.3	125.9	113.6	104.4	95.2
77.5°	257.9	208.8	178.1	150.5	135.1	119.8	107.5	92.1	82.9	73.7	61.4
80°	159.7	138.2	116.7	107.5	92.1	76.8	67.6	61.4	49.1	46.1	39.9
82.5°	104.4	82.9	73.7	61.4	49.1	46.1	39.9	30.7	27.6	24.6	21.5
85°	46.1	39.9	33.8	27.6	21.5	18.4	15.4	12.3	12.3	12.3	12.3
87.5°	15.4	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	6.1	6.1
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-LD5-200HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9
2.5°	10342.5	10397.8	10450.0	10434.6	10379.3	10293.4	10268.8	10235.0	10259.6	10311.8	10333.3
5°	10416.2	10385.5	10496.0	10658.8	10922.9	10947.4	11131.7	11174.7	11322.1	11414.2	11411.1
7.5°	10520.6	10956.7	11137.8	11334.4	11423.4	11401.9	11429.6	11408.1	11374.3	11358.9	11340.5
10°	11051.9	11383.5	11451.1	11451.1	11312.9	11125.6	11045.7	10907.5	10631.2	10637.3	10591.2
12.5°	11362.0	11478.7	11319.0	11183.9	10628.1	10413.1	10179.7	10069.2	10004.7	9906.4	9943.3
15°	11199.3	11033.4	10938.2	10502.2	10161.3	9774.4	9780.5	9713.0	9642.3	9648.5	9602.4
17.5°	10959.7	10827.7	10152.1	9851.2	9685.3	9534.9	9507.2	9418.2	9372.1	9356.8	9353.7
20°	10631.2	10155.2	9651.6	9577.9	9378.3	9206.3	9178.7	9206.3	9347.6	9095.7	8242.1
22.5°	10247.3	9562.5	9415.1	9206.3	9071.2	9003.6	9172.5	8404.8	7244.0	7385.3	7234.8
25°	9596.3	9298.4	9046.6	8886.9	8871.6	8457.0	7047.5	6900.1	6153.9	5754.7	5306.4
27.5°	9120.3	8991.3	8727.2	8699.6	8500.0	6915.5	6181.5	5370.8	5073.0	5026.9	4928.7
30°	8831.7	8647.4	8487.7	7790.6	6783.4	5567.4	4959.4	4845.7	4793.5	4738.3	4652.3
32.5°	8484.7	8309.6	8386.4	6550.0	5407.7	4793.5	4670.7	4587.8	4492.6	4455.7	4145.6
35°	8131.5	8051.7	6553.1	5506.0	4649.2	4501.8	4409.7	4323.7	3439.3	832.2	282.5
37.5°	7753.8	7735.4	5889.8	4569.4	4354.4	4216.2	3955.2	816.8	193.5	132.0	98.3
40°	7459.0	5892.9	4655.4	4283.8	4108.7	3890.7	546.6	135.1	86.0	52.2	33.8
42.5°	7262.5	5300.2	4167.1	4019.7	3638.9	402.3	138.2	58.3	33.8	27.6	21.5
45°	5598.1	4185.5	3893.8	3740.2	460.6	138.2	79.8	27.6	21.5	18.4	12.3
47.5°	5165.1	3801.7	3629.7	816.8	153.5	73.7	55.3	18.4	12.3	12.3	12.3
50°	3912.2	3513.0	2889.6	199.6	98.3	52.2	39.9	12.3	12.3	12.3	9.2
52.5°	3430.1	3242.8	310.2	132.0	76.8	39.9	24.6	9.2	9.2	9.2	9.2
55°	3135.3	2057.4	184.2	101.3	64.5	36.8	15.4	9.2	9.2	9.2	6.1
57.5°	2868.1	276.4	135.1	86.0	58.3	33.8	9.2	9.2	9.2	9.2	6.1
60°	2432.1	199.6	110.5	76.8	55.3	30.7	9.2	9.2	9.2	9.2	9.2
62.5°	316.3	156.6	95.2	67.6	39.9	24.6	6.1	9.2	9.2	9.2	9.2
65°	230.3	122.8	86.0	46.1	24.6	9.2	6.1	9.2	9.2	9.2	9.2
67.5°	178.1	101.3	64.5	39.9	21.5	6.1	6.1	9.2	9.2	9.2	9.2
70°	141.3	86.0	52.2	33.8	18.4	6.1	6.1	9.2	9.2	9.2	9.2
72.5°	110.5	61.4	36.8	18.4	12.3	6.1	6.1	9.2	9.2	9.2	9.2
75°	82.9	49.1	27.6	15.4	6.1	6.1	6.1	9.2	9.2	9.2	9.2
77.5°	55.3	30.7	21.5	12.3	12.3	12.3	15.4	15.4	9.2	9.2	9.2
80°	36.8	21.5	15.4	15.4	15.4	12.3	15.4	15.4	9.2	15.4	9.2
82.5°	18.4	15.4	15.4	12.3	12.3	9.2	12.3	12.3	12.3	12.3	9.2
85°	12.3	9.2	9.2	9.2	9.2	9.2	9.2	9.2	12.3	12.3	9.2
87.5°	6.1	6.1	6.1	6.1	9.2	9.2	9.2	9.2	12.3	12.3	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9
2.5°	10305.6	10314.9	10290.3	10422.3	10354.8	10360.9	10388.6	10317.9	10333.3	10284.1	10250.4
5°	11423.4	11441.8	11460.3	11466.4	11478.7	11494.0	11475.6	11466.4	11448.0	11386.6	11322.1
7.5°	11248.4	11226.9	11217.7	11230.0	11251.5	11260.7	11245.3	11266.8	11346.6	11380.4	11401.9
10°	10327.1	10228.9	10296.4	10287.2	10210.4	10468.4	10397.8	10437.7	10465.3	10747.8	10919.8
12.5°	9888.0	9949.4	9832.7	9774.4	9851.2	9903.4	9955.6	9845.0	9998.6	9927.9	10155.2
15°	9519.5	9482.7	9470.4	9473.5	9458.1	9531.8	9550.2	9574.8	9596.3	9691.5	9728.3
17.5°	9353.7	9415.1	9439.7	9458.1	9427.4	9393.6	9359.8	9310.7	9326.1	9301.5	9372.1
20°	7667.8	7462.1	7449.8	7569.6	7437.5	7511.2	7689.3	8880.8	8840.9	9304.6	9147.9
22.5°	6399.6	6206.1	6040.3	5896.0	6101.7	6187.7	6519.3	6894.0	7502.0	7406.8	8067.0
25°	5226.5	5155.9	5112.9	5091.4	5106.8	5100.6	5174.3	5349.4	5625.7	6276.7	7118.1
27.5°	4888.7	4855.0	4839.6	4790.5	4827.3	4815.0	4873.4	4910.2	4993.1	5057.6	5330.9
30°	4621.6	4581.7	4554.0	4501.8	4538.7	4541.7	4560.2	4655.4	4689.1	4744.4	4830.4
32.5°	1688.9	994.9	933.5	887.5	970.4	1265.2	2220.2	3881.5	4428.1	4471.1	4569.4
35°	165.8	138.2	122.8	122.8	125.9	138.2	184.2	485.2	887.5	3430.1	4293.0
37.5°	64.5	55.3	46.1	43.0	46.1	52.2	70.6	92.1	125.9	261.0	1163.8
40°	27.6	24.6	21.5	21.5	21.5	21.5	24.6	30.7	46.1	86.0	135.1
42.5°	18.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	21.5	27.6	55.3
45°	12.3	9.2	9.2	9.2	9.2	9.2	9.2	9.2	12.3	15.4	24.6
47.5°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	12.3
50°	9.2	9.2	9.2	9.2	6.1	9.2	6.1	9.2	9.2	9.2	9.2
52.5°	9.2	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	9.2	9.2
55°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	9.2
57.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
60°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
62.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	9.2	9.2	6.1
65°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	9.2	6.1
67.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
70°	9.2	9.2	6.1	9.2	6.1	6.1	9.2	9.2	9.2	6.1	6.1
72.5°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	18.4	18.4	12.3
75°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	15.4	18.4	15.4
77.5°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	15.4	15.4	15.4
80°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	12.3	12.3	12.3
82.5°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	12.3	12.3	12.3
85°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
87.5°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9
2.5°	10192.0	10189.0	10253.4	10302.6	10284.1	10302.6	10324.1	10327.1	10333.3	10308.7	10299.5
5°	11199.3	11104.1	10919.8	10787.8	10634.2	10354.8	10216.6	10231.9	10235.0	10225.8	10238.1
7.5°	11392.7	11383.5	11319.0	11291.4	11187.0	10987.4	10668.0	10612.7	10477.6	10391.6	10321.0
10°	10907.5	11128.6	11187.0	11285.2	11346.6	11309.8	11039.6	10999.6	10913.7	10815.4	10836.9
12.5°	10382.4	10563.6	10572.8	11107.1	11226.9	11239.2	11134.8	11190.0	11202.3	10981.2	10852.2
15°	9737.5	9823.5	10004.7	10502.2	10864.5	11091.8	11159.3	11190.0	11039.6	11030.4	10978.2
17.5°	9455.0	9510.3	9593.2	9872.7	10422.3	10757.1	11042.6	11021.1	11079.5	11036.5	10904.5
20°	9098.8	9144.9	9292.3	9433.5	9703.8	10149.0	10683.4	10723.3	10800.0	10790.8	10827.7
22.5°	9092.7	8929.9	8954.5	9065.0	9347.6	9746.8	10314.9	10446.9	10496.0	10529.8	10569.7
25°	7213.3	8506.1	8742.6	8813.2	8997.5	9230.9	9900.3	9949.4	10041.6	10192.0	10302.6
27.5°	6249.1	7127.4	8073.2	8564.5	8681.2	8874.6	9273.9	9347.6	9660.8	9697.6	9869.6
30°	4931.7	5610.4	7022.9	8205.2	8398.7	8533.8	8816.3	8963.7	9098.8	9246.2	9427.4
32.5°	4640.0	4747.5	5530.5	6789.6	8294.3	8192.9	8401.7	8490.8	8638.2	8767.2	8899.2
35°	4372.8	4446.5	4612.4	5561.2	6755.8	7913.5	8054.7	8113.1	8196.0	8294.3	8389.5
37.5°	4093.4	4203.9	4317.6	4572.4	6249.1	7692.4	7689.3	7756.9	7806.0	7888.9	7968.8
40°	743.1	3860.0	4044.3	4210.1	4845.7	6135.5	7345.4	7376.1	7409.9	7462.1	7545.0
42.5°	119.8	644.9	3789.4	3949.1	4130.2	5493.7	7188.8	7062.9	7041.4	7078.2	7151.9
45°	61.4	156.6	761.6	3688.0	3850.8	4382.0	5877.5	6844.8	6823.3	6752.7	6768.1
47.5°	46.1	98.3	187.3	1274.4	3605.1	3761.7	5423.1	5364.7	5773.1	6556.2	6436.4
50°	39.9	67.6	110.5	261.0	3184.4	3463.9	4176.3	4879.5	5094.5	5122.1	6061.8
52.5°	36.8	46.1	79.8	168.9	669.4	3202.9	3396.3	3642.0	4004.3	4781.3	4762.8
55°	33.8	43.0	67.6	113.6	233.4	2886.6	3086.2	3132.2	3209.0	3580.6	4071.9
57.5°	18.4	39.9	64.5	98.3	175.0	528.2	2800.6	2837.4	2898.8	2914.2	3089.2
60°	9.2	36.8	58.3	86.0	129.0	245.7	2518.1	2561.1	2597.9	2604.0	2659.3
62.5°	6.1	33.8	49.1	79.8	107.5	175.0	595.7	1216.0	2312.3	2312.3	2376.8
65°	6.1	24.6	30.7	52.2	98.3	144.3	251.8	291.7	568.1	1397.2	2085.1
67.5°	6.1	9.2	27.6	43.0	73.7	110.5	184.2	215.0	257.9	294.8	546.6
70°	6.1	6.1	24.6	27.6	46.1	82.9	132.0	150.5	175.0	199.6	230.3
72.5°	6.1	6.1	21.5	21.5	30.7	55.3	101.3	110.5	125.9	141.3	162.8
75°	15.4	12.3	18.4	18.4	21.5	43.0	76.8	86.0	92.1	104.4	119.8
77.5°	15.4	15.4	15.4	15.4	15.4	27.6	49.1	55.3	64.5	70.6	82.9
80°	12.3	12.3	12.3	15.4	15.4	18.4	30.7	33.8	36.8	46.1	49.1
82.5°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	18.4	21.5	27.6
85°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	12.3	12.3	12.3	12.3
87.5°	9.2	9.2	9.2	6.1	6.1	9.2	9.2	9.2	9.2	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9	10231.9
2.5°	10296.4	10278.0	10262.7	10271.9	10244.2	10231.9	10241.2	10244.2	10250.4	10265.7	10268.8
5°	10268.8	10262.7	10290.3	10305.6	10299.5	10305.6	10305.6	10293.4	10274.9	10287.2	10259.6
7.5°	10250.4	10210.4	10179.7	10185.9	10155.2	10192.0	10225.8	10274.9	10290.3	10290.3	10259.6
10°	10566.7	10523.7	10351.7	10235.0	10158.2	10090.7	10250.4	10087.6	10164.4	9872.7	10207.4
12.5°	10827.7	10886.0	10809.3	10489.9	10434.6	10231.9	10348.6	10149.0	10090.7	9756.0	9863.4
15°	10932.1	10821.5	10797.0	10707.9	10588.2	10529.8	10216.6	10182.8	10087.6	10124.5	9983.2
17.5°	10840.0	10895.2	10821.5	10763.2	10640.4	10502.2	10314.9	10149.0	10017.0	9722.2	9970.9
20°	10750.9	10824.6	10603.5	10640.4	10652.6	10493.0	10394.7	10256.5	10090.7	9814.3	9599.4
22.5°	10603.5	10551.3	10569.7	10514.5	10468.4	10489.9	10354.8	10259.6	9980.1	9854.2	9562.5
25°	10364.0	10345.6	10394.7	10388.6	10278.0	10241.2	10173.6	10072.3	9961.7	9759.0	9519.5
27.5°	9974.0	10069.2	10155.2	10195.1	10136.7	10038.5	10001.6	9943.3	9866.5	9660.8	9482.7
30°	9562.5	9670.0	9768.3	9854.2	9906.4	9863.4	9829.7	9795.9	9679.2	9544.1	9344.5
32.5°	9092.7	9233.9	9369.0	9473.5	9587.1	9620.9	9596.3	9568.6	9470.4	9347.6	9187.9
35°	8549.1	8742.6	8939.1	9126.5	9175.6	9255.4	9335.3	9289.2	9237.0	9114.2	8966.8
37.5°	8088.5	8226.7	8368.0	8604.4	8776.4	8877.7	9019.0	9037.4	8948.3	8890.0	8696.5
40°	7612.5	7738.4	7944.2	8082.4	8318.8	8435.5	8586.0	8653.5	8632.1	8598.3	8429.4
42.5°	7237.9	7299.3	7434.4	7557.3	7790.6	8030.2	8162.2	8235.9	8312.7	8285.1	8199.1
45°	6838.7	6894.0	6940.0	7047.5	7274.8	7486.6	7649.4	7759.9	7898.1	7962.6	7858.2
47.5°	6442.6	6457.9	6513.2	6602.2	6737.4	6900.1	7173.4	7339.2	7468.2	7594.1	7526.6
50°	6138.6	6083.3	6092.5	6147.8	6258.3	6418.0	6614.5	6847.9	6995.3	7148.8	7164.2
52.5°	5364.7	5813.0	5705.6	5736.3	5794.6	5871.4	6077.1	6307.4	6488.6	6620.7	6752.7
55°	4501.8	4590.9	5453.8	5330.9	5367.8	5435.3	5530.5	5760.8	5935.9	6120.1	6304.4
57.5°	3491.5	4154.8	4188.6	4987.0	4968.6	4974.7	5054.6	5186.6	5361.6	5591.9	5748.6
60°	2714.6	2994.0	3537.6	3813.9	4514.1	4538.7	4584.7	4661.5	4812.0	5030.0	5278.7
62.5°	2395.2	2432.1	2625.5	3040.1	3494.6	4044.3	4142.5	4154.8	4222.4	4440.4	4729.1
65°	2103.5	2128.1	2186.4	2229.4	2610.2	3141.4	3614.3	3691.1	3734.1	3863.1	4108.7
67.5°	1449.4	1833.3	1885.5	1916.2	1953.0	2198.7	2785.2	3175.2	3224.4	3338.0	3552.9
70°	279.4	580.4	1587.6	1621.4	1639.8	1695.1	1790.3	2410.6	2736.1	2843.6	2941.8
72.5°	190.4	224.2	270.2	638.7	1351.2	1381.9	1403.4	1483.2	2032.9	2346.1	2398.3
75°	138.2	153.5	181.2	224.2	276.4	899.7	1114.7	1154.6	1194.5	1649.0	1913.1
77.5°	98.3	110.5	122.8	144.3	168.9	218.0	313.2	862.9	902.8	924.3	1305.1
80°	55.3	67.6	82.9	95.2	107.5	122.8	159.7	199.6	445.3	651.0	684.8
82.5°	30.7	36.8	43.0	52.2	58.3	73.7	89.1	107.5	141.3	208.8	442.2
85°	15.4	15.4	15.4	21.5	24.6	33.8	39.9	46.1	64.5	89.1	122.8
87.5°	9.2	9.2	12.3	12.3	12.3	15.4	15.4	15.4	18.4	27.6	39.9
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-LD5-200HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	10231.9	10231.9	10231.9	10231.9	10231.9
2.5°	10271.9	10262.7	10262.7	10299.5	10290.3
5°	10253.4	10244.2	10241.2	10281.1	10262.7
7.5°	10238.1	10204.3	10195.1	10231.9	10216.6
10°	10176.7	10152.1	10167.5	10155.2	10149.0
12.5°	10072.3	10056.9	9992.4	9998.6	10050.8
15°	9884.9	9946.4	9835.8	9934.1	9955.6
17.5°	9541.0	9679.2	9786.7	9845.0	9854.2
20°	9694.6	9740.6	9685.3	9688.4	9725.3
22.5°	9495.0	9516.4	9531.8	9513.4	9593.2
25°	9175.6	9092.7	9270.8	9307.6	9436.6
27.5°	9077.3	9009.8	9092.7	9086.5	9194.0
30°	8997.5	8779.5	8816.3	8874.6	9006.7
32.5°	8883.9	8539.9	8503.1	8632.1	8779.5
35°	8684.3	8358.7	8272.8	8355.7	8576.8
37.5°	8515.4	8106.9	7935.0	8045.5	8334.2
40°	8263.6	7910.4	7643.3	7741.5	8082.4
42.5°	7962.6	7741.5	7330.0	7397.6	7787.6
45°	7658.6	7462.1	7026.0	7059.8	7523.5
47.5°	7348.5	7167.3	6709.7	6715.9	7185.7
50°	7044.4	6804.9	6427.2	6319.7	6826.4
52.5°	6648.3	6427.2	6141.6	5966.6	6485.6
55°	6273.7	6024.9	5816.1	5545.9	6098.6
57.5°	5908.2	5631.9	5490.6	5143.6	5659.5
60°	5407.7	5275.7	5066.8	4735.2	5263.4
62.5°	4894.9	4851.9	4640.0	4296.1	4775.1
65°	4296.1	4397.4	4179.4	3884.6	4268.4
67.5°	3731.0	3912.2	3672.7	3491.5	3780.2
70°	3129.2	3338.0	3202.9	3138.4	3261.2
72.5°	2536.5	2739.2	2751.4	2705.4	2745.3
75°	1959.2	2183.3	2306.2	2235.6	2244.8
77.5°	1486.3	1593.8	1728.9	1784.1	1771.9
80°	918.2	1105.5	1216.0	1329.7	1289.7
82.5°	463.7	620.3	755.4	878.3	819.9
85°	193.5	248.7	347.0	457.6	439.1
87.5°	58.3	98.3	104.4	147.4	138.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)