

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-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33524)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-200HL-RM-UNV-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

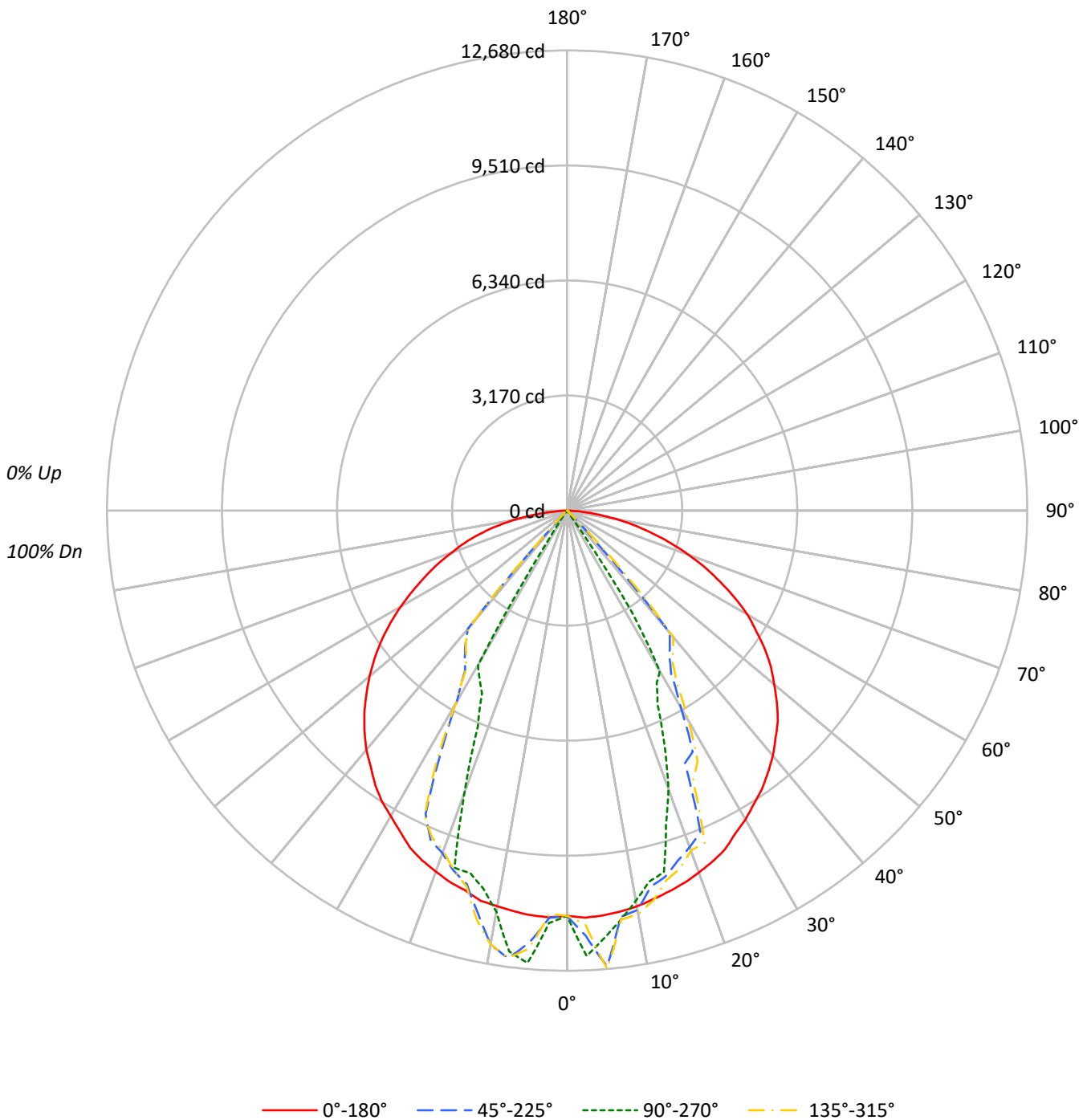
Lumens per Lamp: N/A
Luminaire Lumens: 15876.1 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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°	45113	45113	45113	45113
5°	45359	46398	45346	49136
10°	45313	41985	45285	43197
15°	45253	39188	45142	39290
20°	45373	30867	45244	31247
25°	45575	22338	45353	21079
30°	45444	19595	44964	18837
35°	45665	432	44994	523
40°	45917	94	44818	94
45°	46190	56	44455	42
50°	45968	44	43859	44
55°	45857	31	43040	31
60°	45190	33	41657	33
65°	43087	53	40018	35
70°	40311	59	38375	59
75°	36133	66	36726	66
80°	30082	75	31801	75
85°	18849	89	19243	89



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1120.2	7.1
10°-20°	3055.4	19.2
20°-30°	3888.0	24.5
30°-40°	3284.3	20.7
40°-50°	2147.2	13.5
50°-60°	1352.9	8.5
60°-70°	720.2	4.5
70°-80°	262.6	1.7
80°-90°	45.2	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	8063.6	50.8
0°-40°	11348.0	71.5
0°-60°	14848.1	93.5
0°-90°	15876.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15876.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	11165	11165	11165	11165	11165	
5°	11199	11815	11195	12512	11199	###
15°	10864	10311	10837	10338	10864	3071
25°	10297	5888	10247	5556	10297	4735
35°	9359	111	9222	134	9359	5855
45°	8210	13	7901	10	8210	6314
55°	6655	7	6246	7	6655	5930
65°	4658	10	4326	7	4658	4613
75°	2450	10	2490	10	2450	2600
85°	479	10	489	10	479	606
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2
2.5°	11228.9	11235.6	11238.9	11245.6	11255.7	11259.0	11265.7	11259.0	11259.0	11259.0	11259.0
5°	11198.7	11212.1	11222.2	11235.6	11259.0	11262.4	11289.2	11292.5	11305.9	11332.7	11352.8
7.5°	11148.4	11161.8	11181.9	11215.5	11249.0	11285.8	11332.7	11383.0	11453.4	11520.4	11604.2
10°	11074.7	11091.5	11114.9	11145.1	11309.3	11332.7	11436.6	11580.7	11620.9	11832.0	11989.5
12.5°	10967.5	11024.5	11084.8	11111.6	11269.1	11517.0	11865.5	11795.2	11718.1	12408.4	12398.3
15°	10863.6	10940.7	10910.5	11128.3	11272.4	11704.7	11557.2	11872.2	12448.6	12307.8	12314.5
17.5°	10753.0	10769.8	10937.3	11118.3	11376.3	11597.5	11778.4	12210.7	12324.6	12334.7	12210.7
20°	10612.3	10692.7	10937.3	11101.5	11537.1	11641.0	12033.1	12254.2	12207.3	12093.4	11882.3
22.5°	10468.2	10712.8	10960.8	11192.0	11496.9	11775.1	11969.4	12073.3	11828.7	11379.6	11138.4
25°	10297.3	10441.4	10766.4	11104.9	11486.9	11647.7	11761.7	11594.1	11275.8	10873.7	10468.2
27.5°	10032.6	10263.8	10679.3	11061.3	11406.5	11600.8	11416.5	11014.4	10501.7	10237.0	10052.7
30°	9828.2	10129.8	10471.6	10840.2	11198.7	11312.6	10843.5	10384.4	10032.6	9767.9	9727.7
32.5°	9580.2	10009.1	10334.2	10686.0	10987.6	10836.8	10381.1	9788.0	9496.4	9395.9	9436.1
35°	9359.1	9684.1	10109.7	10454.8	10672.6	10334.2	9613.7	9245.1	9104.4	9161.4	9087.6
37.5°	9094.3	9523.3	9915.3	10213.5	10139.8	9630.5	9020.6	8786.1	8802.8	8755.9	8615.2
40°	8819.6	9228.4	9637.2	9918.7	9660.6	8883.2	8477.8	8427.5	8437.6	8286.8	8085.7
42.5°	8497.9	8869.8	9278.6	9533.3	8977.1	8370.5	8095.8	8102.5	8015.3	7804.2	7697.0
45°	8209.7	8551.5	8977.1	9000.5	8316.9	7810.9	7730.5	7643.4	7449.0	7378.7	7298.3
47.5°	7841.1	8219.8	8571.6	8444.3	7670.2	7355.2	7294.9	7103.9	7006.7	6953.1	6886.1
50°	7449.0	7831.0	8152.7	7790.8	7060.3	6986.6	6788.9	6638.1	6571.1	6514.1	6453.8
52.5°	7077.1	7392.1	7720.5	7097.2	6591.2	6520.8	6296.3	6209.2	6142.2	6078.5	6065.1
55°	6654.9	6933.0	7157.5	6437.1	6142.2	5978.0	5817.2	5756.8	5693.2	5663.0	5713.3
57.5°	6175.7	6490.7	6457.2	5787.0	5656.3	5418.4	5358.1	5317.9	5271.0	5291.1	4872.2
60°	5743.4	5984.7	5820.5	5311.2	5090.0	4929.2	4875.6	4848.7	4875.6	4466.7	3927.3
62.5°	5210.6	5482.1	5150.3	4754.9	4520.4	4443.3	4396.4	4433.2	4041.2	3592.2	3461.5
65°	4657.7	4952.6	4463.4	4158.5	4011.0	3944.0	3940.7	3629.0	3243.7	3069.4	3069.4
67.5°	4125.0	4429.9	3799.9	3545.2	3488.3	3495.0	3300.6	2828.2	2720.9	2603.6	2265.2
70°	3558.7	3826.7	3139.8	2985.6	2952.1	2928.7	2456.2	2328.9	2201.5	1889.9	1863.1
72.5°	2995.7	3126.4	2523.2	2486.4	2479.7	2060.8	1967.0	1749.2	1601.7	1564.9	1548.1
75°	2449.5	2409.3	1993.8	2027.3	1709.0	1561.5	1410.7	1283.4	1263.3	1249.9	311.6
77.5°	1933.5	1732.4	1571.6	1367.2	1223.1	1038.8	1008.6	988.5	650.1	234.6	191.0
80°	1407.4	1122.6	1045.5	888.0	757.3	727.1	743.9	227.9	180.9	150.8	130.7
82.5°	894.7	717.1	586.4	512.7	499.3	217.8	160.8	130.7	113.9	97.2	80.4
85°	479.2	318.3	294.9	248.0	147.4	100.5	83.8	63.7	53.6	43.6	40.2
87.5°	150.8	127.3	103.9	83.8	50.3	33.5	26.8	23.5	20.1	16.8	16.8
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):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2
2.5°	11252.3	11259.0	11255.7	11265.7	11265.7	11279.1	11289.2	11299.2	11319.3	11329.4	11406.5
5°	11396.4	11413.2	11463.4	11510.3	11567.3	11584.1	11681.2	11704.7	11818.6	11832.0	12207.3
7.5°	11718.1	11781.8	11902.4	12023.0	12143.7	12220.7	12354.8	12438.5	12529.0	12609.4	12907.7
10°	12106.8	12214.0	12331.3	12451.9	12522.3	12669.7	12750.2	12763.6	12740.1	12609.4	12126.9
12.5°	12488.8	12596.0	12545.8	12569.2	12653.0	12391.6	12428.5	12240.8	12371.5	11724.8	11245.6
15°	12435.2	12428.5	12304.5	11902.4	11969.4	11470.1	11269.1	11114.9	11238.9	11171.9	11098.2
17.5°	12274.3	11969.4	11754.9	11272.4	11068.0	10927.3	10930.6	10934.0	10873.7	10937.3	10749.7
20°	11594.1	11252.3	10934.0	10763.1	10702.8	10602.2	10652.5	10602.2	10605.6	10625.7	10337.5
22.5°	10689.4	10585.5	10401.2	10454.8	10434.7	10525.2	10458.2	10354.3	10387.8	10237.0	10019.2
25°	10324.1	10203.5	10196.8	10216.9	10186.7	10146.5	10086.2	9928.7	9918.7	9871.7	9771.2
27.5°	9955.5	9962.2	9982.3	9922.0	9814.8	9734.4	9643.9	9566.8	9597.0	9543.4	9406.0
30°	9700.8	9697.5	9576.9	9523.3	9325.5	9328.9	9305.4	9258.5	9228.4	9231.7	9144.6
32.5°	9339.0	9235.1	9097.7	9030.7	9013.9	8953.6	8906.7	8916.7	8940.2	8856.4	8946.9
35°	8967.0	8752.5	8732.4	8675.5	8621.9	8581.6	8598.4	8531.4	8528.0	8518.0	7780.8
37.5°	8467.7	8363.8	8353.8	8293.5	8256.6	8246.6	8182.9	8192.9	8223.1	8276.7	6634.8
40°	8055.6	7961.7	7938.3	7934.9	7854.5	7847.8	7864.6	7928.2	7971.8	7636.7	6323.1
42.5°	7613.2	7619.9	7546.2	7499.3	7509.4	7539.5	7619.9	7398.8	6410.3	6108.7	5780.3
45°	7234.6	7201.1	7160.9	7147.5	7234.6	7174.3	6289.6	5803.8	5686.5	5673.1	4751.6
47.5°	6839.2	6829.1	6812.4	6822.4	6326.5	5639.6	5438.5	5374.8	5394.9	5381.5	4081.4
50°	6440.4	6453.8	6453.8	5636.2	5173.8	5059.9	5076.6	5133.6	4778.4	4460.0	3803.3
52.5°	6095.3	5991.4	5133.6	4838.7	4734.8	4785.1	4664.4	4218.8	3897.1	3709.4	3518.4
55°	5455.3	4691.3	4500.3	4453.3	4490.2	4044.5	3769.8	3481.6	3397.8	3377.7	3267.1
57.5°	4292.5	4138.4	4155.1	3967.5	3541.9	3290.6	3180.0	3139.8	3102.9	3076.1	268.1
60°	3796.6	3840.1	3515.1	3113.0	2942.1	2908.6	2881.8	2844.9	2838.2	2791.3	170.9
62.5°	3474.9	3056.0	2774.5	2674.0	2633.8	2623.8	2573.5	2556.7	2171.4	298.2	127.3
65°	2620.4	2449.5	2395.9	2372.4	2328.9	2328.9	1933.5	304.9	248.0	214.5	113.9
67.5°	2137.9	2124.5	2097.7	2067.5	1407.4	294.9	258.0	224.5	194.4	170.9	100.5
70°	1809.5	1802.8	1641.9	301.6	251.3	221.2	194.4	174.2	160.8	144.1	90.5
72.5°	1484.4	301.6	254.7	221.2	191.0	174.2	157.5	140.7	127.3	117.3	73.7
75°	231.2	204.4	180.9	164.2	150.8	134.0	120.6	110.6	107.2	93.8	50.3
77.5°	167.5	144.1	130.7	117.3	103.9	93.8	80.4	70.4	63.7	53.6	36.9
80°	117.3	103.9	93.8	77.1	67.0	57.0	50.3	43.6	40.2	33.5	16.8
82.5°	67.0	57.0	50.3	40.2	36.9	30.2	26.8	23.5	23.5	16.8	16.8
85°	30.2	30.2	23.5	20.1	16.8	16.8	16.8	13.4	13.4	10.1	10.1
87.5°	13.4	13.4	13.4	13.4	13.4	10.1	10.1	10.1	10.1	10.1	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2
2.5°	11513.7	11557.2	11641.0	11728.1	11631.0	11979.5	11952.7	12069.9	12133.6	12163.8	12234.1
5°	12539.1	12733.4	12797.1	12606.1	12495.5	12381.6	12123.5	11929.2	11952.7	11889.0	11657.8
7.5°	12519.0	12103.4	11543.8	11289.2	11269.1	11238.9	11319.3	11366.2	11372.9	11369.6	11362.9
10°	11460.1	11245.6	11208.8	11175.2	11188.6	11064.7	11007.7	10846.9	10934.0	10887.1	10903.8
12.5°	11138.4	11088.1	10890.4	10615.6	10779.8	10655.9	10585.5	10632.4	10578.8	10528.5	10511.8
15°	10947.4	10622.3	10511.8	10444.7	10397.8	10371.0	10394.5	10340.9	10324.1	10314.1	10337.5
17.5°	10552.0	10421.3	10300.7	10123.1	10126.4	10116.4	10183.4	10283.9	10290.6	9774.6	9308.8
20°	10240.3	10133.1	9979.0	9868.4	10019.2	9751.1	8715.7	8223.1	8146.0	8146.0	8159.4
22.5°	9992.4	9754.5	9764.5	9590.3	8179.5	7891.4	7898.1	7928.2	7790.8	7321.7	7271.4
25°	9653.9	9617.1	8883.2	7676.9	7687.0	7462.4	7117.3	6631.4	6105.3	6105.3	6018.2
27.5°	9399.3	8618.5	7546.2	7496.0	6742.0	6266.2	5971.3	5525.6	5465.3	5408.3	5415.1
30°	9181.5	7291.6	7318.4	6266.2	5709.9	5314.5	5291.1	5217.3	5180.5	5170.4	5133.6
32.5°	7258.0	7100.6	6125.4	5334.6	5116.8	5053.2	5023.0	4939.2	4935.9	4872.2	4429.9
35°	6805.7	6232.7	5126.9	4912.4	4848.7	4788.4	4738.2	3180.0	375.3	150.8	130.7
37.5°	6289.6	5207.3	4741.5	4644.3	4584.0	3387.8	338.4	117.3	83.8	60.3	53.6
40°	5331.3	4651.0	4503.6	4396.4	1812.8	117.3	73.7	57.0	33.5	30.2	26.8
42.5°	4496.9	4383.0	4225.5	1286.7	134.0	57.0	36.9	26.8	23.5	23.5	20.1
45°	4208.7	4108.2	1702.3	127.3	83.8	26.8	23.5	23.5	20.1	13.4	13.4
47.5°	3940.7	3468.2	154.1	80.4	53.6	23.5	20.1	13.4	13.4	13.4	10.1
50°	3655.8	191.0	107.2	60.3	33.5	13.4	13.4	13.4	13.4	10.1	10.1
52.5°	683.6	134.0	87.1	53.6	16.8	13.4	13.4	13.4	10.1	10.1	10.1
55°	160.8	107.2	80.4	46.9	13.4	13.4	13.4	10.1	10.1	10.1	6.7
57.5°	120.6	80.4	63.7	43.6	13.4	10.1	10.1	10.1	10.1	10.1	6.7
60°	100.5	57.0	50.3	40.2	10.1	10.1	10.1	10.1	10.1	10.1	6.7
62.5°	70.4	46.9	36.9	30.2	10.1	10.1	10.1	10.1	10.1	10.1	10.1
65°	57.0	36.9	30.2	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
67.5°	50.3	30.2	20.1	6.7	10.1	10.1	10.1	10.1	10.1	10.1	10.1
70°	40.2	10.1	10.1	6.7	10.1	10.1	10.1	10.1	10.1	10.1	10.1
72.5°	33.5	10.1	6.7	6.7	10.1	10.1	10.1	10.1	10.1	10.1	10.1
75°	33.5	16.8	6.7	6.7	10.1	10.1	13.4	13.4	10.1	10.1	10.1
77.5°	23.5	16.8	6.7	6.7	10.1	10.1	13.4	13.4	10.1	10.1	10.1
80°	13.4	16.8	6.7	10.1	10.1	20.1	23.5	13.4	10.1	10.1	10.1
82.5°	13.4	16.8	20.1	20.1	10.1	16.8	20.1	16.8	13.4	10.1	10.1
85°	13.4	10.1	13.4	16.8	10.1	16.8	16.8	13.4	13.4	10.1	10.1
87.5°	6.7	10.1	10.1	13.4	13.4	13.4	16.8	13.4	13.4	13.4	10.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2
2.5°	12267.6	12281.0	12069.9	11996.2	12059.9	12046.5	11989.5	11778.4	11754.9	11614.2	11409.8
5°	11724.8	11815.3	11704.7	11895.7	11805.2	11895.7	12170.5	12297.8	12505.5	12632.9	12679.8
7.5°	11346.1	11366.2	11366.2	11383.0	11399.8	11403.1	11383.0	11369.6	11312.6	11242.3	11369.6
10°	10887.1	10910.5	10950.7	10944.0	10940.7	11011.0	11027.8	11171.9	11165.2	11192.0	11289.2
12.5°	10649.2	10468.2	10632.4	10588.8	10649.2	10555.3	10729.6	10699.4	10709.5	10789.9	10997.6
15°	10253.7	10310.7	10350.9	10350.9	10374.4	10354.3	10334.2	10471.6	10555.3	10558.7	10545.3
17.5°	9493.1	9060.8	9503.1	9389.2	10297.3	10320.8	10243.7	10180.0	10180.0	10230.3	10337.5
20°	8149.4	8159.4	8162.8	8206.3	8260.0	8256.6	8260.0	9580.2	10206.8	10062.7	9965.6
22.5°	7144.1	7020.1	7251.3	7234.6	7522.8	7841.1	8146.0	8115.9	8136.0	9067.5	9905.3
25°	5726.7	5887.5	5756.8	5813.8	6138.8	6517.5	6752.1	7365.3	8032.1	7985.2	8203.0
27.5°	5391.6	5348.0	5408.3	5408.3	5451.9	5502.2	5632.9	5978.0	6571.1	7194.4	7784.1
30°	5073.3	5110.1	5116.8	5177.1	5210.6	5244.2	5264.3	5394.9	5529.0	5961.2	6688.4
32.5°	3810.0	3340.8	4396.4	4681.2	4922.5	4979.4	5019.6	5073.3	5170.4	5234.1	5599.3
35°	110.6	110.6	117.3	134.0	170.9	1152.7	4389.7	4838.7	4902.4	4982.8	5049.8
37.5°	53.6	40.2	46.9	50.3	60.3	83.8	120.6	375.3	4178.6	4724.8	4798.5
40°	23.5	23.5	23.5	23.5	26.8	33.5	50.3	83.8	127.3	3361.0	4533.8
42.5°	20.1	20.1	20.1	20.1	20.1	20.1	23.5	30.2	60.3	144.1	2379.1
45°	13.4	13.4	10.1	13.4	13.4	16.8	20.1	20.1	26.8	90.5	164.2
47.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	16.8	20.1	60.3	87.1
50°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	46.9	60.3
52.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	20.1	53.6
55°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	10.1	10.1	13.4	46.9
57.5°	6.7	6.7	6.7	6.7	6.7	10.1	6.7	6.7	10.1	10.1	43.6
60°	6.7	6.7	6.7	6.7	6.7	10.1	10.1	10.1	10.1	10.1	40.2
62.5°	10.1	10.1	6.7	10.1	6.7	6.7	10.1	10.1	10.1	10.1	26.8
65°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	6.7	10.1
67.5°	10.1	10.1	10.1	10.1	6.7	10.1	6.7	10.1	10.1	6.7	6.7
70°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	6.7	6.7	6.7	6.7
72.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	6.7	6.7	6.7	6.7
75°	10.1	10.1	10.1	10.1	10.1	10.1	13.4	13.4	6.7	6.7	6.7
77.5°	10.1	10.1	10.1	10.1	10.1	10.1	16.8	20.1	16.8	16.8	6.7
80°	10.1	10.1	10.1	10.1	10.1	10.1	16.8	16.8	16.8	16.8	23.5
82.5°	10.1	10.1	10.1	10.1	10.1	10.1	13.4	13.4	13.4	13.4	16.8
85°	10.1	10.1	10.1	10.1	10.1	10.1	13.4	13.4	13.4	10.1	13.4
87.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	13.4	10.1	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2
2.5°	11426.6	11312.6	11275.8	11198.7	11192.0	11198.7	11181.9	11158.5	11171.9	11148.4	11128.3
5°	12706.6	12401.7	12204.0	11939.2	11574.0	11493.6	11473.5	11359.5	11319.3	11305.9	11252.3
7.5°	11671.2	12227.4	12562.5	12676.4	12247.5	12147.0	12029.7	11935.9	11845.4	11674.5	11570.6
10°	11212.1	11238.9	11560.6	11935.9	12545.8	12629.5	12693.2	12488.8	12431.8	11996.2	11902.4
12.5°	11104.9	11108.2	11145.1	11372.9	11852.1	11905.7	12130.2	12250.9	12398.3	12482.1	12415.1
15°	10615.6	10887.1	11088.1	11108.2	11151.8	11245.6	11312.6	11731.5	11909.1	12384.9	12358.1
17.5°	10387.8	10474.9	10766.4	11004.3	10964.1	10930.6	10984.2	11041.2	11212.1	11687.9	11681.2
20°	10009.1	10287.3	10444.7	10692.7	10917.2	10927.3	10867.0	10833.5	10766.4	10843.5	10913.9
22.5°	9848.3	9891.8	10186.7	10361.0	10615.6	10706.1	10719.5	10722.9	10686.0	10645.8	10625.7
25°	9831.5	9694.1	9844.9	10062.7	10250.4	10347.6	10458.2	10495.0	10481.6	10481.6	10461.5
27.5°	8045.5	9650.6	9570.2	9714.3	9942.1	10009.1	10066.1	10180.0	10250.4	10300.7	10324.1
30°	7663.5	7951.7	9355.7	9375.8	9607.0	9600.3	9664.0	9757.8	9848.3	9965.6	9995.7
32.5°	6778.9	7485.9	8564.9	9037.4	9278.6	9302.1	9335.6	9362.4	9446.2	9576.9	9690.8
35°	5431.8	6819.1	7338.5	8876.5	8920.1	8967.0	8987.1	9050.8	9077.6	9131.2	9231.7
37.5°	4915.8	5636.2	7040.2	7676.9	8507.9	8548.1	8655.4	8682.2	8725.7	8769.3	8846.4
40°	4617.5	4815.2	5860.7	6855.9	8176.2	8203.0	8239.9	8306.9	8310.2	8360.5	8430.9
42.5°	4379.6	4507.0	4811.9	6547.7	7941.6	7938.3	7851.2	7894.7	7914.8	7968.4	8065.6
45°	3498.3	4228.8	4423.2	5348.0	6323.1	6778.9	7653.5	7509.4	7506.0	7526.1	7630.0
47.5°	177.6	3977.5	4114.9	4413.1	5971.3	5988.1	6102.0	7060.3	7207.8	7160.9	7170.9
50°	120.6	274.8	3833.4	3970.8	5147.0	5562.5	5646.3	5689.8	6242.7	6859.3	6758.8
52.5°	93.8	157.5	2349.0	3686.0	4181.9	4486.9	5026.3	5334.6	5368.1	5616.1	6457.2
55°	83.8	120.6	254.7	3401.2	3555.3	3622.3	3937.3	4476.8	4912.4	5043.1	5053.2
57.5°	73.7	110.6	174.2	1538.1	3233.6	3247.0	3300.6	3488.3	3880.3	4238.9	4644.3
60°	67.0	97.2	137.4	264.7	2938.7	2972.2	2982.3	3032.6	3079.5	3324.1	3789.9
62.5°	40.2	77.1	120.6	191.0	2325.5	2670.7	2667.3	2700.8	2744.4	2771.2	2865.0
65°	33.5	60.3	103.9	160.8	284.8	355.2	2158.0	2399.2	2426.0	2462.9	2479.7
67.5°	30.2	53.6	77.1	127.3	214.5	244.6	281.5	348.5	1903.3	2144.6	2178.1
70°	26.8	36.9	63.7	107.2	174.2	187.7	211.1	241.3	284.8	351.8	1722.4
72.5°	16.8	26.8	43.6	77.1	134.0	150.8	164.2	184.3	204.4	244.6	281.5
75°	6.7	20.1	36.9	57.0	103.9	113.9	124.0	137.4	154.1	180.9	201.1
77.5°	6.7	16.8	30.2	40.2	67.0	77.1	90.5	100.5	113.9	127.3	147.4
80°	23.5	13.4	20.1	30.2	46.9	50.3	57.0	63.7	73.7	83.8	97.2
82.5°	16.8	20.1	23.5	20.1	23.5	30.2	33.5	40.2	43.6	50.3	53.6
85°	13.4	13.4	16.8	16.8	16.8	16.8	16.8	16.8	20.1	23.5	30.2
87.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	13.4	13.4
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2
2.5°	11128.3	11121.6	11101.5	11101.5	11098.2	11111.6	11121.6	11131.7	11128.3	11148.4	11128.3
5°	11212.1	11195.3	11165.2	11138.4	11128.3	11135.0	11125.0	11135.0	11121.6	11138.4	11108.2
7.5°	11443.3	11386.3	11269.1	11222.2	11161.8	11158.5	11128.3	11121.6	11101.5	11101.5	11064.7
10°	11852.1	11577.4	11543.8	11403.1	11352.8	11108.2	11161.8	11071.4	11061.3	11017.8	11001.0
12.5°	12187.2	11972.8	11909.1	11785.1	11644.4	11148.4	11259.0	11064.7	11054.6	10967.5	10877.0
15°	12193.9	12317.9	12143.7	11801.9	11771.7	11429.9	11205.4	11138.4	11051.3	10789.9	10833.5
17.5°	11801.9	12086.7	12170.5	12096.7	11882.3	11651.1	11336.1	11202.1	10940.7	10823.4	10743.0
20°	11165.2	11453.4	11811.9	11835.4	11969.4	11805.2	11393.1	11175.2	10860.3	10655.9	10588.8
22.5°	10659.2	10870.3	11282.5	11473.5	11637.7	11694.6	11433.3	11111.6	10719.5	10521.8	10481.6
25°	10391.1	10438.0	10562.0	10786.5	11148.4	11409.8	11446.7	11104.9	10900.5	10468.2	10240.3
27.5°	10294.0	10253.7	10203.5	10317.4	10588.8	10907.2	11118.3	11175.2	10665.9	10253.7	10025.9
30°	10046.0	10069.4	9992.4	9952.2	10129.8	10458.2	10833.5	10927.3	10535.2	10109.7	9848.3
32.5°	9741.1	9781.3	9794.7	9724.3	9687.4	9915.3	10320.8	10545.3	10525.2	9905.3	9613.7
35°	9359.1	9473.0	9503.1	9506.5	9446.2	9409.3	9643.9	10109.7	10287.3	9811.4	9389.2
37.5°	8956.9	8990.5	9154.7	9198.2	9198.2	9087.6	9261.9	9633.8	9881.8	9600.3	9114.4
40°	8454.3	8561.5	8715.7	8792.8	8869.8	8879.9	8782.7	9044.1	9452.9	9382.5	8856.4
42.5°	8089.1	8159.4	8253.3	8357.1	8514.6	8554.8	8454.3	8501.2	8926.8	9111.1	8521.3
45°	7663.5	7757.3	7784.1	7898.1	8062.3	8179.5	8176.2	8079.0	8420.8	8648.7	8276.7
47.5°	7227.9	7318.4	7365.3	7422.2	7542.9	7693.7	7777.4	7733.9	7800.9	8246.6	7951.7
50°	6778.9	6829.1	6923.0	6986.6	7067.0	7154.2	7355.2	7395.4	7301.6	7656.8	7593.1
52.5°	6353.3	6370.1	6433.7	6497.4	6604.6	6668.3	6829.1	6949.8	6943.1	7046.9	7194.4
55°	6021.6	5947.8	5961.2	6011.5	6081.9	6179.1	6269.5	6457.2	6520.8	6541.0	6775.5
57.5°	4704.7	5462.0	5529.0	5525.6	5609.4	5653.0	5736.7	5860.7	6088.6	6038.3	6299.7
60°	4275.7	4359.5	4992.8	5066.6	5096.7	5136.9	5237.5	5351.4	5518.9	5626.2	5740.1
62.5°	3260.4	3769.8	3960.8	4520.4	4607.5	4630.9	4698.0	4751.6	4925.8	5170.4	5123.5
65°	2523.2	2741.0	3324.1	3552.0	4027.8	4088.1	4181.9	4238.9	4289.1	4570.6	4584.0
67.5°	2181.4	2214.9	2372.4	2811.4	3113.0	3578.8	3635.7	3686.0	3763.1	3964.1	4088.1
70°	1863.1	1903.3	1946.9	1983.7	2375.8	2684.1	3116.3	3133.1	3183.4	3317.4	3598.9
72.5°	351.8	1591.7	1618.5	1641.9	1685.5	1889.9	2302.1	2637.2	2657.3	2720.9	2978.9
75°	237.9	278.1	382.0	1313.6	1357.1	1370.5	1440.9	1859.7	2168.0	2181.4	2295.4
77.5°	170.9	191.0	231.2	274.8	700.3	1052.2	1068.9	1146.0	1464.3	1695.6	1715.7
80°	117.3	130.7	154.1	174.2	214.5	281.5	777.4	800.9	841.1	1159.4	1219.7
82.5°	67.0	77.1	90.5	110.6	127.3	160.8	207.8	268.1	546.2	583.1	774.1
85°	33.5	36.9	43.6	53.6	63.7	77.1	103.9	127.3	174.2	315.0	325.0
87.5°	16.8	16.8	16.8	16.8	26.8	30.2	36.9	46.9	60.3	90.5	117.3
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2
2.5°	11131.7	11178.6	11218.8	11228.9	11228.9	11235.6	11245.6	11252.3	11259.0	11265.7	11259.0
5°	11111.6	11161.8	11195.3	11205.4	11205.4	11225.5	11242.3	11262.4	11272.4	11272.4	11265.7
7.5°	11061.3	11098.2	11141.7	11168.5	11171.9	11205.4	11235.6	11232.2	11245.6	11252.3	11269.1
10°	10994.3	10994.3	11068.0	11088.1	11104.9	11141.7	11151.8	11171.9	11218.8	11225.5	11269.1
12.5°	10960.8	10927.3	11014.4	11024.5	11081.4	11034.5	11094.8	11114.9	11068.0	11131.7	11047.9
15°	10810.0	10850.2	10836.8	10867.0	10967.5	10913.9	11078.1	11024.5	11145.1	11001.0	11255.7
17.5°	10686.0	10679.3	10732.9	10759.7	10779.8	10893.8	10937.3	10997.6	11044.6	11004.3	11104.9
20°	10595.5	10541.9	10582.1	10612.3	10682.7	10769.8	10796.6	10706.1	10863.6	11131.7	11195.3
22.5°	10424.6	10387.8	10434.7	10434.7	10541.9	10528.5	10629.0	10572.1	10719.5	11031.2	11356.2
25°	10193.4	10196.8	10247.0	10307.4	10327.5	10478.3	10531.9	10605.6	10789.9	11161.8	11359.5
27.5°	9958.9	9938.8	9968.9	10092.9	10196.8	10307.4	10324.1	10575.4	10826.8	11081.4	11255.7
30°	9724.3	9704.2	9724.3	9814.8	9938.8	10012.5	10196.8	10531.9	10766.4	10940.7	11104.9
32.5°	9473.0	9452.9	9499.8	9566.8	9784.6	9794.7	10159.9	10474.9	10659.2	10786.5	10756.4
35°	9204.9	9178.1	9221.7	9325.5	9526.6	9600.3	9982.3	10216.9	10424.6	10485.0	10344.2
37.5°	8883.2	8836.3	8889.9	9034.0	9245.1	9459.6	9777.9	10049.3	10159.9	9999.1	9831.5
40°	8548.1	8514.6	8608.5	8682.2	8930.1	9228.4	9593.6	9784.6	9714.3	9530.0	9345.7
42.5°	8249.9	8179.5	8263.3	8404.1	8685.5	9024.0	9318.8	9426.1	9258.5	8987.1	8772.6
45°	7884.7	7800.9	7901.4	8089.1	8390.6	8776.0	9007.2	8970.4	8685.5	8451.0	8156.1
47.5°	7502.7	7402.1	7502.7	7727.2	8065.6	8474.4	8642.0	8474.4	8115.9	7821.0	7583.1
50°	7127.4	7010.1	7107.3	7445.7	7777.4	8092.4	8089.1	7764.0	7549.6	7227.9	7020.1
52.5°	6755.4	6587.9	6685.0	7053.6	7385.4	7743.9	7479.2	7177.6	6919.6	6638.1	6571.1
55°	6296.3	6115.4	6246.1	6782.2	7036.9	7248.0	6825.8	6561.1	6306.4	6165.7	6081.9
57.5°	5860.7	5663.0	5776.9	6410.3	6597.9	6651.5	6262.8	5887.5	5736.7	5689.8	5569.2
60°	5411.7	5187.2	5294.4	6024.9	6155.6	5937.8	5555.8	5264.3	5234.1	5140.3	5046.5
62.5°	4982.8	4734.8	4801.8	5545.7	5606.1	5210.6	4858.8	4781.7	4708.0	4614.2	4563.9
65°	4490.2	4232.2	4326.0	5036.4	4979.4	4470.1	4272.4	4255.6	4158.5	4081.4	4155.1
67.5°	4037.8	3732.9	3863.6	4480.2	4222.1	3806.6	3726.2	3686.0	3608.9	3652.5	2878.4
70°	3541.9	3210.2	3387.8	3880.3	3498.3	3223.6	3193.4	3133.1	3136.4	2493.1	2101.0
72.5°	2989.0	2700.8	2958.8	3223.6	2767.8	2687.4	2643.9	2637.2	2127.8	1729.1	1631.9
75°	2503.1	2211.6	2489.7	2590.2	2204.9	2151.3	2147.9	1776.0	1397.3	1333.7	1303.5
77.5°	1953.6	1729.1	1993.8	1843.0	1692.2	1631.9	1464.3	1099.1	1052.2	1008.6	378.7
80°	1316.9	1333.7	1487.8	1270.0	1206.3	1028.7	810.9	777.4	670.2	268.1	211.1
82.5°	800.9	1005.3	948.3	794.2	777.4	559.6	512.7	261.4	194.4	154.1	134.0
85°	415.5	509.3	489.2	432.3	321.7	288.2	160.8	124.0	100.5	77.1	63.7
87.5°	140.7	187.7	180.9	144.1	110.6	87.1	57.0	46.9	33.5	26.8	23.5
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2
2.5°	11252.3	11252.3	11245.6	11252.3	11255.7	11249.0	11249.0	11255.7	11259.0	11262.4	11279.1
5°	11269.1	11275.8	11285.8	11305.9	11309.3	11349.5	11366.2	11376.3	11386.3	11389.7	11366.2
7.5°	11305.9	11329.4	11349.5	11346.1	11322.7	11259.0	11238.9	11222.2	11252.3	11329.4	11419.9
10°	11339.4	11232.2	11031.2	11305.9	11222.2	11299.2	11527.1	11577.4	11731.5	11949.3	12013.0
12.5°	11108.2	11403.1	11466.8	11158.5	11728.1	11517.0	11768.4	11989.5	12053.2	12274.3	12140.3
15°	11356.2	11500.3	11597.5	11905.7	11872.2	12053.2	12123.5	12080.0	12090.0	12147.0	12297.8
17.5°	11352.8	11641.0	11704.7	11912.4	12053.2	12056.5	12036.4	12016.3	12069.9	12113.5	12023.0
20°	11547.2	11641.0	11765.0	11848.8	11875.6	11909.1	11972.8	11922.5	11822.0	11724.8	11684.6
22.5°	11450.0	11661.1	11768.4	11781.8	11765.0	11661.1	11567.3	11426.6	11379.6	11329.4	11346.1
25°	11470.1	11567.3	11553.9	11500.3	11429.9	11235.6	11188.6	11128.3	11037.9	10820.0	10622.3
27.5°	11326.0	11275.8	11215.5	11084.8	10957.4	10853.6	10736.3	10541.9	10381.1	10146.5	10059.4
30°	11084.8	10883.7	10736.3	10659.2	10535.2	10361.0	10183.4	9945.5	9741.1	9694.1	9650.6
32.5°	10622.3	10424.6	10304.0	10116.4	9905.3	9697.5	9493.1	9399.3	9355.7	9362.4	9322.2
35°	10149.9	9975.6	9794.7	9513.2	9355.7	9148.0	9074.2	9054.1	9013.9	8970.4	8923.4
37.5°	9647.2	9442.8	9171.4	9003.9	8846.4	8762.6	8725.7	8695.6	8625.2	8548.1	8494.5
40°	9161.4	8792.8	8642.0	8477.8	8430.9	8394.0	8340.4	8266.7	8169.5	8156.1	8132.6
42.5°	8511.3	8246.6	8115.9	8082.4	8025.4	7961.7	7914.8	7834.4	7794.2	7821.0	7841.1
45°	7894.7	7760.7	7717.1	7676.9	7569.7	7479.2	7449.0	7422.2	7455.7	7603.2	7251.3
47.5°	7395.4	7341.8	7288.2	7221.2	7120.7	7053.6	7083.8	7110.6	7140.8	6058.4	5529.0
50°	6963.2	6889.4	6805.7	6732.0	6671.6	6664.9	6822.4	6350.0	5317.9	5291.1	4754.9
52.5°	6490.7	6380.1	6329.8	6286.3	6313.1	6413.6	5307.8	4925.8	4724.8	4104.8	3830.1
55°	5981.4	5884.2	5884.2	5924.4	5780.3	4684.6	4627.6	4001.0	3622.3	3515.1	3471.5
57.5°	5472.0	5462.0	5518.9	5046.5	4252.3	4078.0	3428.0	3290.6	3230.3	3216.9	3146.5
60°	5006.2	5100.1	4269.0	3927.3	3414.6	3079.5	2985.6	2968.9	2905.2	2881.8	2818.1
62.5°	4634.3	3843.5	3578.8	2922.0	2751.1	2707.5	2657.3	2633.8	2576.8	2275.3	666.8
65°	3347.5	3163.2	2566.8	2456.2	2442.8	2379.1	2359.0	2121.1	499.3	335.1	284.8
67.5°	2526.6	2241.8	2164.7	2144.6	2080.9	1953.6	579.7	331.7	284.8	248.0	217.8
70°	1940.2	1889.9	1832.9	1786.0	526.1	328.4	284.8	241.3	207.8	184.3	167.5
72.5°	1588.3	1554.8	904.7	345.1	281.5	237.9	211.1	184.3	160.8	147.4	134.0
75°	1243.2	345.1	284.8	237.9	204.4	174.2	154.1	137.4	124.0	113.9	103.9
77.5°	281.5	227.9	194.4	164.2	147.4	130.7	117.3	100.5	90.5	80.4	67.0
80°	174.2	150.8	127.3	117.3	100.5	83.8	73.7	67.0	53.6	50.3	43.6
82.5°	113.9	90.5	80.4	67.0	53.6	50.3	43.6	33.5	30.2	26.8	23.5
85°	50.3	43.6	36.9	30.2	23.5	20.1	16.8	13.4	13.4	13.4	13.4
87.5°	16.8	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	6.7	6.7
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2
2.5°	11285.8	11346.1	11403.1	11386.3	11326.0	11232.2	11205.4	11168.5	11195.3	11252.3	11275.8
5°	11366.2	11332.7	11453.4	11631.0	11919.1	11945.9	12147.0	12193.9	12354.8	12455.3	12451.9
7.5°	11480.2	11956.0	12153.7	12368.2	12465.3	12441.9	12472.0	12448.6	12411.7	12395.0	12374.9
10°	12059.9	12421.8	12495.5	12495.5	12344.7	12140.3	12053.2	11902.4	11600.8	11607.5	11557.2
12.5°	12398.3	12525.7	12351.4	12204.0	11597.5	11362.9	11108.2	10987.6	10917.2	10810.0	10850.2
15°	12220.7	12039.8	11935.9	11460.1	11088.1	10665.9	10672.6	10598.9	10521.8	10528.5	10478.3
17.5°	11959.4	11815.3	11078.1	10749.7	10568.7	10404.5	10374.4	10277.2	10226.9	10210.2	10206.8
20°	11600.8	11081.4	10531.9	10451.4	10233.6	10046.0	10015.8	10046.0	10200.1	9925.4	8993.8
22.5°	11181.9	10434.7	10273.9	10046.0	9898.6	9824.8	10009.1	9171.4	7904.8	8058.9	7894.7
25°	10471.6	10146.5	9871.7	9697.5	9680.7	9228.4	7690.3	7529.5	6715.2	6279.6	5790.4
27.5°	9952.2	9811.4	9523.3	9493.1	9275.3	7546.2	6745.4	5860.7	5535.7	5485.4	5378.2
30°	9637.2	9436.1	9261.9	8501.2	7402.1	6075.2	5411.7	5287.7	5230.8	5170.4	5076.6
32.5°	9258.5	9067.5	9151.3	7147.5	5900.9	5230.8	5096.7	5006.2	4902.4	4862.2	4523.7
35°	8873.2	8786.1	7150.8	6008.2	5073.3	4912.4	4811.9	4718.1	3753.0	908.1	308.3
37.5°	8461.0	8440.9	6427.0	4986.1	4751.6	4600.8	4316.0	891.3	211.1	144.1	107.2
40°	8139.3	6430.4	5080.0	4674.5	4483.5	4245.6	596.5	147.4	93.8	57.0	36.9
42.5°	7924.9	5783.6	4547.2	4386.3	3970.8	439.0	150.8	63.7	36.9	30.2	23.5
45°	6108.7	4567.3	4248.9	4081.4	502.6	150.8	87.1	30.2	23.5	20.1	13.4
47.5°	5636.2	4148.4	3960.8	891.3	167.5	80.4	60.3	20.1	13.4	13.4	13.4
50°	4269.0	3833.4	3153.2	217.8	107.2	57.0	43.6	13.4	13.4	13.4	10.1
52.5°	3743.0	3538.5	338.4	144.1	83.8	43.6	26.8	10.1	10.1	10.1	10.1
55°	3421.3	2245.1	201.1	110.6	70.4	40.2	16.8	10.1	10.1	10.1	6.7
57.5°	3129.7	301.6	147.4	93.8	63.7	36.9	10.1	10.1	10.1	10.1	6.7
60°	2653.9	217.8	120.6	83.8	60.3	33.5	10.1	10.1	10.1	10.1	10.1
62.5°	345.1	170.9	103.9	73.7	43.6	26.8	6.7	10.1	10.1	10.1	10.1
65°	251.3	134.0	93.8	50.3	26.8	10.1	6.7	10.1	10.1	10.1	10.1
67.5°	194.4	110.6	70.4	43.6	23.5	6.7	6.7	10.1	10.1	10.1	10.1
70°	154.1	93.8	57.0	36.9	20.1	6.7	6.7	10.1	10.1	10.1	10.1
72.5°	120.6	67.0	40.2	20.1	13.4	6.7	6.7	10.1	10.1	10.1	10.1
75°	90.5	53.6	30.2	16.8	6.7	6.7	6.7	10.1	10.1	10.1	10.1
77.5°	60.3	33.5	23.5	13.4	13.4	13.4	16.8	16.8	10.1	10.1	10.1
80°	40.2	23.5	16.8	16.8	16.8	13.4	16.8	16.8	10.1	16.8	10.1
82.5°	20.1	16.8	16.8	13.4	13.4	10.1	13.4	13.4	13.4	13.4	10.1
85°	13.4	10.1	10.1	10.1	10.1	10.1	10.1	10.1	13.4	13.4	10.1
87.5°	6.7	6.7	6.7	6.7	10.1	10.1	10.1	10.1	13.4	13.4	10.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2
2.5°	11245.6	11255.7	11228.9	11372.9	11299.2	11305.9	11336.1	11259.0	11275.8	11222.2	11185.3
5°	12465.3	12485.4	12505.5	12512.3	12525.7	12542.4	12522.3	12512.3	12492.1	12425.1	12354.8
7.5°	12274.3	12250.9	12240.8	12254.2	12277.7	12287.7	12271.0	12294.4	12381.6	12418.4	12441.9
10°	11269.1	11161.8	11235.6	11225.5	11141.7	11423.2	11346.1	11389.7	11419.9	11728.1	11915.8
12.5°	10789.9	10856.9	10729.6	10665.9	10749.7	10806.6	10863.6	10743.0	10910.5	10833.5	11081.4
15°	10387.8	10347.6	10334.2	10337.5	10320.8	10401.2	10421.3	10448.1	10471.6	10575.4	10615.6
17.5°	10206.8	10273.9	10300.7	10320.8	10287.3	10250.4	10213.5	10159.9	10176.7	10149.9	10226.9
20°	8367.2	8142.7	8129.3	8260.0	8115.9	8196.3	8390.6	9690.8	9647.2	10153.2	9982.3
22.5°	6983.3	6772.2	6591.2	6433.7	6658.2	6752.1	7114.0	7522.8	8186.2	8082.4	8802.8
25°	5703.2	5626.2	5579.2	5555.8	5572.5	5565.8	5646.3	5837.3	6138.8	6849.2	7767.4
27.5°	5334.6	5297.8	5281.0	5227.4	5267.6	5254.2	5317.9	5358.1	5448.6	5518.9	5817.2
30°	5043.1	4999.5	4969.4	4912.4	4952.6	4956.0	4976.1	5080.0	5116.8	5177.1	5271.0
32.5°	1843.0	1085.7	1018.7	968.4	1058.9	1380.6	2422.7	4235.5	4832.0	4878.9	4986.1
35°	180.9	150.8	134.0	134.0	137.4	150.8	201.1	529.4	968.4	3743.0	4684.6
37.5°	70.4	60.3	50.3	46.9	50.3	57.0	77.1	100.5	137.4	284.8	1270.0
40°	30.2	26.8	23.5	23.5	23.5	23.5	26.8	33.5	50.3	93.8	147.4
42.5°	20.1	16.8	16.8	16.8	16.8	16.8	16.8	16.8	23.5	30.2	60.3
45°	13.4	10.1	10.1	10.1	10.1	10.1	10.1	10.1	13.4	16.8	26.8
47.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	13.4
50°	10.1	10.1	10.1	10.1	6.7	10.1	6.7	10.1	10.1	10.1	10.1
52.5°	10.1	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	10.1	10.1
55°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	10.1
57.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
60°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
62.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	10.1	10.1	6.7
65°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	10.1	6.7
67.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
70°	10.1	10.1	6.7	10.1	6.7	6.7	10.1	10.1	10.1	6.7	6.7
72.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	20.1	20.1	13.4
75°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	16.8	20.1	16.8
77.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	16.8	16.8	16.8
80°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	13.4	13.4	13.4
82.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	13.4	13.4	13.4
85°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
87.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2
2.5°	11121.6	11118.3	11188.6	11242.3	11222.2	11242.3	11265.7	11269.1	11275.8	11249.0	11238.9
5°	12220.7	12116.8	11915.8	11771.7	11604.2	11299.2	11148.4	11165.2	11168.5	11158.5	11171.9
7.5°	12431.8	12421.8	12351.4	12321.3	12207.3	11989.5	11641.0	11580.7	11433.3	11339.4	11262.4
10°	11902.4	12143.7	12207.3	12314.5	12381.6	12341.4	12046.5	12002.9	11909.1	11801.9	11825.3
12.5°	11329.4	11527.1	11537.1	12120.2	12250.9	12264.3	12150.4	12210.7	12224.1	11982.8	11842.1
15°	10625.7	10719.5	10917.2	11460.1	11855.5	12103.4	12177.2	12210.7	12046.5	12036.4	11979.5
17.5°	10317.4	10377.7	10468.2	10773.1	11372.9	11738.2	12049.8	12026.4	12090.0	12043.1	11899.0
20°	9928.7	9979.0	10139.8	10294.0	10588.8	11074.7	11657.8	11701.3	11785.1	11775.1	11815.3
22.5°	9922.0	9744.4	9771.2	9891.8	10200.1	10635.7	11255.7	11399.8	11453.4	11490.2	11533.8
25°	7871.3	9282.0	9540.0	9617.1	9818.1	10072.8	10803.3	10856.9	10957.4	11121.6	11242.3
27.5°	6819.1	7777.4	8809.5	9345.7	9473.0	9684.1	10119.7	10200.1	10541.9	10582.1	10769.8
30°	5381.5	6122.1	7663.5	8953.6	9164.7	9312.1	9620.4	9781.3	9928.7	10089.6	10287.3
32.5°	5063.2	5180.5	6035.0	7408.8	9050.8	8940.2	9168.1	9265.2	9426.1	9566.8	9710.9
35°	4771.7	4852.1	5033.0	6068.5	7372.0	8635.3	8789.4	8853.1	8943.5	9050.8	9154.7
37.5°	4466.7	4587.4	4711.4	4989.5	6819.1	8394.0	8390.6	8464.4	8518.0	8608.5	8695.6
40°	810.9	4212.1	4413.1	4594.1	5287.7	6695.1	8015.3	8048.9	8085.7	8142.7	8233.2
42.5°	130.7	703.7	4135.0	4309.3	4507.0	5994.8	7844.5	7707.1	7683.6	7723.8	7804.2
45°	67.0	170.9	831.0	4024.4	4202.0	4781.7	6413.6	7469.2	7445.7	7368.6	7385.4
47.5°	50.3	107.2	204.4	1390.6	3934.0	4104.8	5917.7	5854.0	6299.7	7154.2	7023.5
50°	43.6	73.7	120.6	284.8	3474.9	3779.8	4557.2	5324.6	5559.1	5589.3	6614.7
52.5°	40.2	50.3	87.1	184.3	730.5	3495.0	3706.1	3974.2	4369.6	5217.3	5197.2
55°	36.9	46.9	73.7	124.0	254.7	3149.8	3367.7	3417.9	3501.7	3907.1	4443.3
57.5°	20.1	43.6	70.4	107.2	191.0	576.4	3056.0	3096.2	3163.2	3180.0	3371.0
60°	10.1	40.2	63.7	93.8	140.7	268.1	2747.7	2794.6	2834.9	2841.6	2901.9
62.5°	6.7	36.9	53.6	87.1	117.3	191.0	650.1	1327.0	2523.2	2523.2	2593.6
65°	6.7	26.8	33.5	57.0	107.2	157.5	274.8	318.3	619.9	1524.7	2275.3
67.5°	6.7	10.1	30.2	46.9	80.4	120.6	201.1	234.6	281.5	321.7	596.5
70°	6.7	6.7	26.8	30.2	50.3	90.5	144.1	164.2	191.0	217.8	251.3
72.5°	6.7	6.7	23.5	23.5	33.5	60.3	110.6	120.6	137.4	154.1	177.6
75°	16.8	13.4	20.1	20.1	23.5	46.9	83.8	93.8	100.5	113.9	130.7
77.5°	16.8	16.8	16.8	16.8	16.8	30.2	53.6	60.3	70.4	77.1	90.5
80°	13.4	13.4	13.4	16.8	16.8	20.1	33.5	36.9	40.2	50.3	53.6
82.5°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	20.1	23.5	30.2
85°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	13.4	13.4	13.4	13.4
87.5°	10.1	10.1	10.1	6.7	6.7	10.1	10.1	10.1	10.1	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2	11165.2
2.5°	11235.6	11215.5	11198.7	11208.8	11178.6	11165.2	11175.2	11178.6	11185.3	11202.1	11205.4
5°	11205.4	11198.7	11228.9	11245.6	11238.9	11245.6	11245.6	11232.2	11212.1	11225.5	11195.3
7.5°	11185.3	11141.7	11108.2	11114.9	11081.4	11121.6	11158.5	11212.1	11228.9	11228.9	11195.3
10°	11530.4	11483.5	11295.9	11168.5	11084.8	11011.0	11185.3	11007.7	11091.5	10773.1	11138.4
12.5°	11815.3	11878.9	11795.2	11446.7	11386.3	11165.2	11292.5	11074.7	11011.0	10645.8	10763.1
15°	11929.2	11808.6	11781.8	11684.6	11553.9	11490.2	11148.4	11111.6	11007.7	11047.9	10893.8
17.5°	11828.7	11889.0	11808.6	11744.9	11610.9	11460.1	11255.7	11074.7	10930.6	10608.9	10880.4
20°	11731.5	11811.9	11570.6	11610.9	11624.3	11450.0	11342.8	11192.0	11011.0	10709.5	10474.9
22.5°	11570.6	11513.7	11533.8	11473.5	11423.2	11446.7	11299.2	11195.3	10890.4	10753.0	10434.7
25°	11309.3	11289.2	11342.8	11336.1	11215.5	11175.2	11101.5	10990.9	10870.3	10649.2	10387.8
27.5°	10883.7	10987.6	11081.4	11125.0	11061.3	10954.1	10913.9	10850.2	10766.4	10541.9	10347.6
30°	10434.7	10552.0	10659.2	10753.0	10810.0	10763.1	10726.2	10689.4	10562.0	10414.6	10196.8
32.5°	9922.0	10076.1	10223.6	10337.5	10461.5	10498.4	10471.6	10441.4	10334.2	10200.1	10025.9
35°	9328.9	9540.0	9754.5	9958.9	10012.5	10099.6	10186.7	10136.5	10079.5	9945.5	9784.6
37.5°	8826.3	8977.1	9131.2	9389.2	9576.9	9687.4	9841.6	9861.7	9764.5	9700.8	9489.7
40°	8306.9	8444.3	8668.8	8819.6	9077.6	9204.9	9369.1	9442.8	9419.4	9382.5	9198.2
42.5°	7898.1	7965.1	8112.5	8246.6	8501.2	8762.6	8906.7	8987.1	9070.9	9040.7	8946.9
45°	7462.4	7522.8	7573.0	7690.3	7938.3	8169.5	8347.1	8467.7	8618.5	8688.9	8574.9
47.5°	7030.2	7046.9	7107.3	7204.4	7351.9	7529.5	7827.7	8008.6	8149.4	8286.8	8213.0
50°	6698.4	6638.1	6648.2	6708.5	6829.1	7003.4	7217.8	7472.5	7633.3	7800.9	7817.6
52.5°	5854.0	6343.2	6226.0	6259.5	6323.1	6406.9	6631.4	6882.7	7080.4	7224.5	7368.6
55°	4912.4	5009.6	5951.2	5817.2	5857.4	5931.1	6035.0	6286.3	6477.3	6678.3	6879.4
57.5°	3810.0	4533.8	4570.6	5441.9	5421.8	5428.5	5515.6	5659.7	5850.7	6102.0	6272.9
60°	2962.2	3267.1	3860.2	4161.8	4925.8	4952.6	5002.9	5086.7	5250.9	5488.8	5760.2
62.5°	2613.7	2653.9	2865.0	3317.4	3813.3	4413.1	4520.4	4533.8	4607.5	4845.4	5160.4
65°	2295.4	2322.2	2385.8	2432.8	2848.3	3428.0	3944.0	4027.8	4074.7	4215.4	4483.5
67.5°	1581.6	2000.5	2057.5	2091.0	2131.2	2399.2	3039.3	3464.8	3518.4	3642.4	3877.0
70°	304.9	633.3	1732.4	1769.3	1789.4	1849.7	1953.6	2630.5	2985.6	3102.9	3210.2
72.5°	207.8	244.6	294.9	697.0	1474.4	1507.9	1531.4	1618.5	2218.3	2560.1	2617.1
75°	150.8	167.5	197.7	244.6	301.6	981.8	1216.4	1259.9	1303.5	1799.4	2087.6
77.5°	107.2	120.6	134.0	157.5	184.3	237.9	341.8	941.6	985.2	1008.6	1424.1
80°	60.3	73.7	90.5	103.9	117.3	134.0	174.2	217.8	485.9	710.4	747.3
82.5°	33.5	40.2	46.9	57.0	63.7	80.4	97.2	117.3	154.1	227.9	482.5
85°	16.8	16.8	16.8	23.5	26.8	36.9	43.6	50.3	70.4	97.2	134.0
87.5°	10.1	10.1	13.4	13.4	13.4	16.8	16.8	16.8	20.1	30.2	43.6
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	11165.2	11165.2	11165.2	11165.2	11165.2
2.5°	11208.8	11198.7	11198.7	11238.9	11228.9
5°	11188.6	11178.6	11175.2	11218.8	11198.7
7.5°	11171.9	11135.0	11125.0	11165.2	11148.4
10°	11104.9	11078.1	11094.8	11081.4	11074.7
12.5°	10990.9	10974.2	10903.8	10910.5	10967.5
15°	10786.5	10853.6	10732.9	10840.2	10863.6
17.5°	10411.2	10562.0	10679.3	10743.0	10753.0
20°	10578.8	10629.0	10568.7	10572.1	10612.3
22.5°	10361.0	10384.4	10401.2	10381.1	10468.2
25°	10012.5	9922.0	10116.4	10156.6	10297.3
27.5°	9905.3	9831.5	9922.0	9915.3	10032.6
30°	9818.1	9580.2	9620.4	9684.1	9828.2
32.5°	9694.1	9318.8	9278.6	9419.4	9580.2
35°	9476.3	9121.1	9027.3	9117.8	9359.1
37.5°	9292.0	8846.4	8658.7	8779.4	9094.3
40°	9017.3	8631.9	8340.4	8447.6	8819.6
42.5°	8688.9	8447.6	7998.6	8072.3	8497.9
45°	8357.1	8142.7	7666.9	7703.7	8209.7
47.5°	8018.7	7821.0	7321.7	7328.4	7841.1
50°	7687.0	7425.6	7013.4	6896.1	7449.0
52.5°	7254.7	7013.4	6701.8	6510.8	7077.1
55°	6845.9	6574.5	6346.6	6051.7	6654.9
57.5°	6447.1	6145.5	5991.4	5612.8	6175.7
60°	5900.9	5756.8	5529.0	5167.1	5743.4
62.5°	5341.3	5294.4	5063.2	4687.9	5210.6
65°	4687.9	4798.5	4560.6	4238.9	4657.7
67.5°	4071.3	4269.0	4007.7	3810.0	4125.0
70°	3414.6	3642.4	3495.0	3424.6	3558.7
72.5°	2767.8	2989.0	3002.4	2952.1	2995.7
75°	2137.9	2382.5	2516.5	2439.5	2449.5
77.5°	1621.8	1739.1	1886.6	1946.9	1933.5
80°	1001.9	1206.3	1327.0	1450.9	1407.4
82.5°	506.0	676.9	824.3	958.4	894.7
85°	211.1	271.4	378.7	499.3	479.2
87.5°	63.7	107.2	113.9	160.8	150.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)