

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-LD5-120SL-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-LD5-120SL-RM-UNV-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

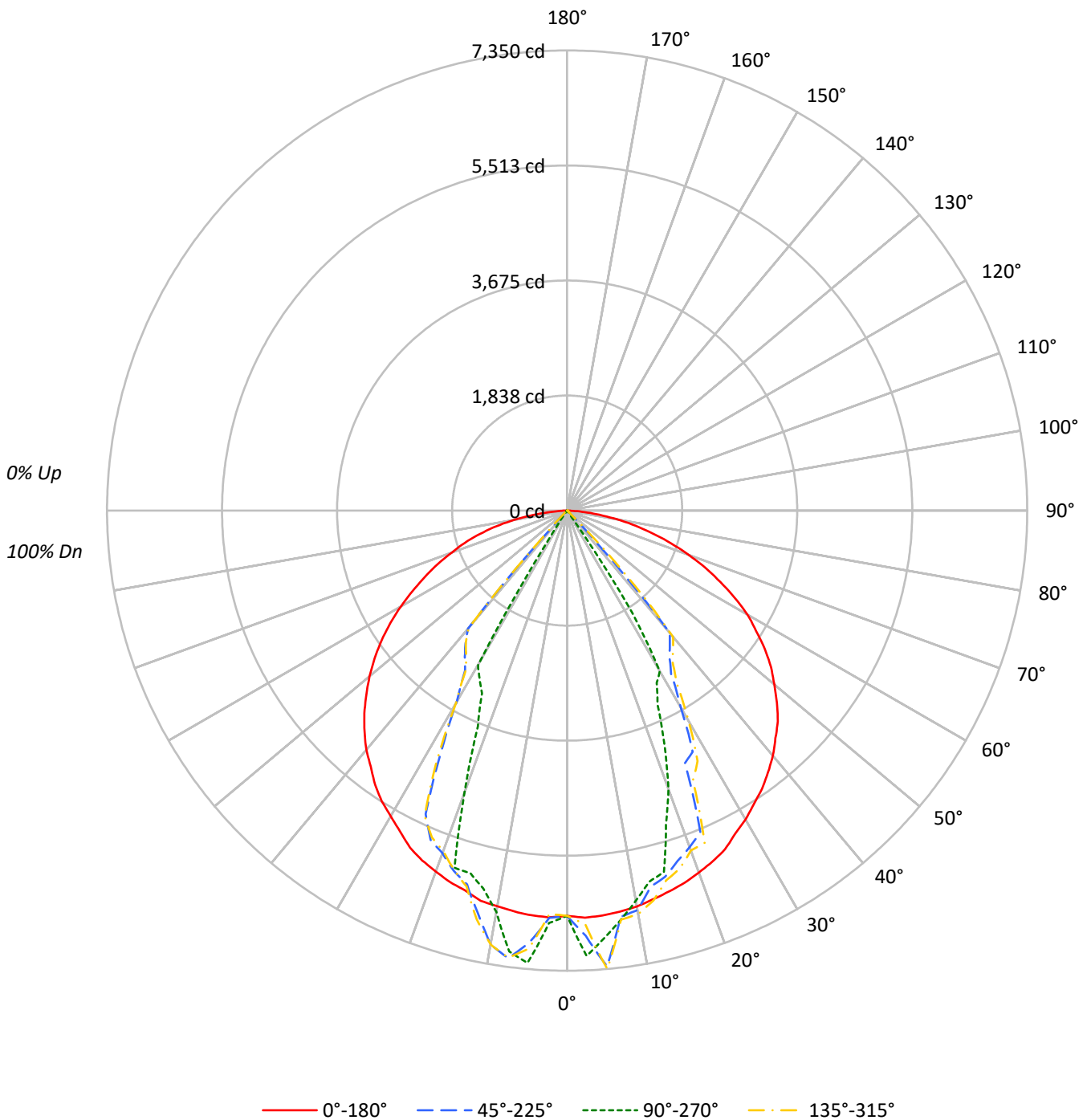
Lumens per Lamp: N/A
Luminaire Lumens: 9203.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 92
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#
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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	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°	26151	26151	26151	26151
5°	26294	26896	26286	28483
10°	26267	24338	26251	25041
15°	26232	22717	26168	22776
20°	26302	17893	26227	18113
25°	26419	12949	26290	12219
30°	26343	11359	26065	10919
35°	26471	250	26082	303
40°	26617	55	25980	55
45°	26775	32	25770	24
50°	26647	25	25424	25
55°	26582	18	24949	18
60°	26196	19	24148	19
65°	24977	31	23198	21
70°	23367	34	22245	34
75°	20945	38	21289	38
80°	17437	43	18433	43
85°	10927	51	11155	51



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	649.3	7.1
10°-20°	1771.2	19.2
20°-30°	2253.8	24.5
30°-40°	1903.9	20.7
40°-50°	1244.7	13.5
50°-60°	784.3	8.5
60°-70°	417.5	4.5
70°-80°	152.2	1.7
80°-90°	26.2	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°	4674.3	50.8
0°-40°	6578.2	71.5
0°-60°	8607.1	93.5
0°-90°	9203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9203.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6472	6472	6472	6472	6472	
5°	6492	6849	6490	7253	6492	617
15°	6297	5977	6282	5992	6297	1780
25°	5969	3413	5940	3221	5969	2745
35°	5425	64	5346	78	5425	3394
45°	4759	8	4580	6	4759	3660
55°	3858	4	3621	4	3858	3437
65°	2700	6	2508	4	2700	2674
75°	1420	6	1443	6	1420	1507
85°	278	6	284	6	278	351
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2
2.5°	6509.1	6513.0	6515.0	6518.9	6524.7	6526.6	6530.5	6526.6	6526.6	6526.6	6526.6
5°	6491.7	6499.4	6505.3	6513.0	6526.6	6528.6	6544.1	6546.1	6553.8	6569.4	6581.0
7.5°	6462.5	6470.3	6482.0	6501.4	6520.8	6542.2	6569.4	6598.5	6639.3	6678.1	6726.7
10°	6419.8	6429.5	6443.1	6460.6	6555.8	6569.4	6629.6	6713.1	6736.4	6858.8	6950.1
12.5°	6357.6	6390.7	6425.6	6441.2	6532.5	6676.2	6878.2	6837.4	6792.7	7192.9	7187.1
15°	6297.4	6342.1	6324.6	6450.9	6534.4	6785.0	6699.5	6882.1	7216.2	7134.6	7138.5
17.5°	6233.3	6243.0	6340.2	6445.0	6594.6	6722.8	6827.7	7078.3	7144.3	7150.2	7078.3
20°	6151.7	6198.4	6340.2	6435.3	6687.8	6748.1	6975.3	7103.5	7076.3	7010.3	6887.9
22.5°	6068.2	6210.0	6353.7	6487.8	6664.5	6825.8	6938.4	6998.6	6856.8	6596.6	6456.7
25°	5969.1	6052.7	6241.1	6437.3	6658.7	6752.0	6818.0	6720.9	6536.3	6303.2	6068.2
27.5°	5815.7	5949.7	6190.6	6412.0	6612.1	6724.8	6617.9	6384.8	6087.6	5934.2	5827.3
30°	5697.2	5872.0	6070.2	6283.8	6491.7	6557.7	6285.8	6019.6	5815.7	5662.2	5638.9
32.5°	5553.5	5802.1	5990.5	6194.5	6369.3	6281.9	6017.7	5673.9	5504.9	5446.6	5469.9
35°	5425.3	5613.7	5860.4	6060.4	6186.7	5990.5	5572.9	5359.2	5277.6	5310.7	5267.9
37.5°	5271.8	5520.4	5747.7	5920.6	5877.8	5582.6	5229.1	5093.1	5102.8	5075.6	4994.0
40°	5112.5	5349.5	5586.5	5749.6	5600.1	5149.4	4914.4	4885.3	4891.1	4803.7	4687.1
42.5°	4926.0	5141.7	5378.6	5526.3	5203.8	4852.2	4693.0	4696.8	4646.3	4524.0	4461.8
45°	4759.0	4957.1	5203.8	5217.4	4821.2	4527.8	4481.2	4430.7	4318.1	4277.3	4230.7
47.5°	4545.3	4764.8	4968.8	4895.0	4446.3	4263.7	4228.7	4118.0	4061.7	4030.6	3991.7
50°	4318.1	4539.5	4726.0	4516.2	4092.7	4050.0	3935.4	3848.0	3809.1	3776.1	3741.2
52.5°	4102.5	4285.0	4475.4	4114.1	3820.8	3780.0	3649.9	3599.4	3560.5	3523.6	3515.8
55°	3857.7	4018.9	4149.1	3731.4	3560.5	3465.3	3372.1	3337.1	3300.2	3282.7	3311.9
57.5°	3579.9	3762.5	3743.1	3354.6	3278.9	3140.9	3106.0	3082.7	3055.5	3067.1	2824.3
60°	3329.4	3469.2	3374.0	3078.8	2950.6	2857.3	2826.3	2810.7	2826.3	2589.3	2276.5
62.5°	3020.5	3177.8	2985.5	2756.3	2620.4	2575.7	2548.5	2569.9	2342.6	2082.3	2006.5
65°	2700.0	2870.9	2587.3	2410.6	2325.1	2286.3	2284.3	2103.7	1880.3	1779.3	1779.3
67.5°	2391.2	2567.9	2202.7	2055.1	2022.1	2026.0	1913.3	1639.4	1577.3	1509.3	1313.1
70°	2062.9	2218.3	1820.1	1730.7	1711.3	1697.7	1423.8	1350.0	1276.2	1095.5	1080.0
72.5°	1736.5	1812.3	1462.7	1441.3	1437.4	1194.6	1140.2	1014.0	928.5	907.1	897.4
75°	1419.9	1396.6	1155.8	1175.2	990.6	905.2	817.8	744.0	732.3	724.5	180.6
77.5°	1120.8	1004.2	911.0	792.5	709.0	602.2	584.7	573.0	376.8	136.0	110.7
80°	815.8	650.7	606.0	514.7	439.0	421.5	431.2	132.1	104.9	87.4	75.8
82.5°	518.6	415.7	339.9	297.2	289.4	126.3	93.2	75.8	66.0	56.3	46.6
85°	277.8	184.5	170.9	143.7	85.5	58.3	48.6	36.9	31.1	25.3	23.3
87.5°	87.4	73.8	60.2	48.6	29.1	19.4	15.5	13.6	11.7	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2
2.5°	6522.7	6526.6	6524.7	6530.5	6530.5	6538.3	6544.1	6549.9	6561.6	6567.4	6612.1
5°	6606.3	6616.0	6645.1	6672.3	6705.3	6715.0	6771.4	6785.0	6851.0	6858.8	7076.3
7.5°	6792.7	6829.6	6899.6	6969.5	7039.4	7084.1	7161.8	7210.4	7262.8	7309.4	7482.3
10°	7018.1	7080.2	7148.2	7218.1	7258.9	7344.4	7391.0	7398.8	7385.2	7309.4	7029.7
12.5°	7239.5	7301.7	7272.5	7286.1	7334.7	7183.2	7204.5	7095.8	7171.5	6796.6	6518.9
15°	7208.4	7204.5	7132.7	6899.6	6938.4	6649.0	6532.5	6443.1	6515.0	6476.1	6433.4
17.5°	7115.2	6938.4	6814.1	6534.4	6415.9	6334.3	6336.3	6338.2	6303.2	6340.2	6231.4
20°	6720.9	6522.7	6338.2	6239.1	6204.2	6145.9	6175.0	6145.9	6147.8	6159.5	5992.5
22.5°	6196.4	6136.2	6029.4	6060.4	6048.8	6101.2	6062.4	6002.2	6021.6	5934.2	5807.9
25°	5984.7	5914.8	5910.9	5922.5	5905.0	5881.7	5846.8	5755.5	5749.6	5722.5	5664.2
27.5°	5771.0	5774.9	5786.6	5751.6	5689.4	5642.8	5590.4	5545.7	5563.2	5532.1	5452.5
30°	5623.4	5621.4	5551.5	5520.4	5405.8	5407.8	5394.2	5367.0	5349.5	5351.4	5300.9
32.5°	5413.6	5353.4	5273.7	5234.9	5225.2	5190.2	5163.0	5168.9	5182.5	5133.9	5186.3
35°	5198.0	5073.7	5062.0	5029.0	4997.9	4974.6	4984.3	4945.5	4943.5	4937.7	4510.4
37.5°	4908.6	4848.4	4842.5	4807.6	4786.2	4780.4	4743.5	4749.3	4766.8	4797.8	3846.0
40°	4669.6	4615.3	4601.7	4599.7	4553.1	4549.2	4558.9	4595.8	4621.1	4426.8	3665.4
42.5°	4413.2	4417.1	4374.4	4347.2	4353.0	4370.5	4417.1	4288.9	3715.9	3541.1	3350.7
45°	4193.7	4174.3	4151.0	4143.2	4193.7	4158.8	3646.0	3364.3	3296.3	3288.6	2754.4
47.5°	3964.5	3958.7	3949.0	3954.8	3667.3	3269.1	3152.6	3115.7	3127.3	3119.6	2365.9
50°	3733.4	3741.2	3741.2	3267.2	2999.1	2933.1	2942.8	2975.8	2769.9	2585.4	2204.7
52.5°	3533.3	3473.1	2975.8	2804.9	2744.7	2773.8	2703.9	2445.5	2259.1	2150.3	2039.6
55°	3162.3	2719.4	2608.7	2581.5	2602.9	2344.5	2185.3	2018.2	1969.6	1958.0	1893.9
57.5°	2488.3	2398.9	2408.6	2299.9	2053.2	1907.5	1843.4	1820.1	1798.7	1783.2	155.4
60°	2200.8	2226.0	2037.6	1804.5	1705.5	1686.0	1670.5	1649.1	1645.3	1618.1	99.1
62.5°	2014.3	1771.5	1608.3	1550.1	1526.8	1520.9	1491.8	1482.1	1258.7	172.9	73.8
65°	1519.0	1419.9	1388.9	1375.3	1350.0	1350.0	1120.8	176.8	143.7	124.3	66.0
67.5°	1239.3	1231.5	1216.0	1198.5	815.8	170.9	149.6	130.1	112.7	99.1	58.3
70°	1048.9	1045.0	951.8	174.8	145.7	128.2	112.7	101.0	93.2	83.5	52.4
72.5°	860.5	174.8	147.6	128.2	110.7	101.0	91.3	81.6	73.8	68.0	42.7
75°	134.0	118.5	104.9	95.2	87.4	77.7	69.9	64.1	62.2	54.4	29.1
77.5°	97.1	83.5	75.8	68.0	60.2	54.4	46.6	40.8	36.9	31.1	21.4
80°	68.0	60.2	54.4	44.7	38.8	33.0	29.1	25.3	23.3	19.4	9.7
82.5°	38.8	33.0	29.1	23.3	21.4	17.5	15.5	13.6	13.6	9.7	9.7
85°	17.5	17.5	13.6	11.7	9.7	9.7	9.7	7.8	7.8	5.8	5.8
87.5°	7.8	7.8	7.8	7.8	7.8	5.8	5.8	5.8	5.8	5.8	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2
2.5°	6674.3	6699.5	6748.1	6798.6	6742.2	6944.3	6928.7	6996.7	7033.6	7051.1	7091.9
5°	7268.6	7381.3	7418.2	7307.5	7243.4	7177.3	7027.8	6915.1	6928.7	6891.8	6757.8
7.5°	7257.0	7016.1	6691.7	6544.1	6532.5	6515.0	6561.6	6588.8	6592.7	6590.7	6586.8
10°	6643.2	6518.9	6497.5	6478.1	6485.8	6414.0	6380.9	6287.7	6338.2	6311.0	6320.7
12.5°	6456.7	6427.6	6313.0	6153.7	6248.9	6177.0	6136.2	6163.4	6132.3	6103.2	6093.5
15°	6346.0	6157.6	6093.5	6054.6	6027.4	6011.9	6025.5	5994.4	5984.7	5978.9	5992.5
17.5°	6116.8	6041.0	5971.1	5868.1	5870.1	5864.3	5903.1	5961.4	5965.3	5666.1	5396.1
20°	5936.1	5874.0	5784.6	5720.5	5807.9	5652.5	5052.3	4766.8	4722.1	4722.1	4729.9
22.5°	5792.4	5654.5	5660.3	5559.3	4741.5	4574.5	4578.4	4595.8	4516.2	4244.2	4215.1
25°	5596.2	5574.8	5149.4	4450.1	4456.0	4325.8	4125.8	3844.1	3539.1	3539.1	3488.6
27.5°	5448.6	4996.0	4374.4	4345.3	3908.2	3632.4	3461.4	3203.1	3168.1	3135.1	3139.0
30°	5322.3	4226.8	4242.3	3632.4	3309.9	3080.7	3067.1	3024.4	3003.0	2997.2	2975.8
32.5°	4207.3	4116.0	3550.8	3092.4	2966.1	2929.2	2911.7	2863.2	2861.2	2824.3	2567.9
35°	3945.1	3613.0	2971.9	2847.6	2810.7	2775.8	2746.6	1843.4	217.6	87.4	75.8
37.5°	3646.0	3018.6	2748.6	2692.2	2657.3	1963.8	196.2	68.0	48.6	35.0	31.1
40°	3090.4	2696.1	2610.7	2548.5	1050.9	68.0	42.7	33.0	19.4	17.5	15.5
42.5°	2606.8	2540.7	2449.4	745.9	77.7	33.0	21.4	15.5	13.6	13.6	11.7
45°	2439.7	2381.4	986.8	73.8	48.6	15.5	13.6	13.6	11.7	7.8	7.8
47.5°	2284.3	2010.4	89.4	46.6	31.1	13.6	11.7	7.8	7.8	7.8	5.8
50°	2119.2	110.7	62.2	35.0	19.4	7.8	7.8	7.8	7.8	5.8	5.8
52.5°	396.3	77.7	50.5	31.1	9.7	7.8	7.8	7.8	5.8	5.8	5.8
55°	93.2	62.2	46.6	27.2	7.8	7.8	7.8	5.8	5.8	5.8	3.9
57.5°	69.9	46.6	36.9	25.3	7.8	5.8	5.8	5.8	5.8	5.8	3.9
60°	58.3	33.0	29.1	23.3	5.8	5.8	5.8	5.8	5.8	5.8	3.9
62.5°	40.8	27.2	21.4	17.5	5.8	5.8	5.8	5.8	5.8	5.8	5.8
65°	33.0	21.4	17.5	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
67.5°	29.1	17.5	11.7	3.9	5.8	5.8	5.8	5.8	5.8	5.8	5.8
70°	23.3	5.8	5.8	3.9	5.8	5.8	5.8	5.8	5.8	5.8	5.8
72.5°	19.4	5.8	3.9	3.9	5.8	5.8	5.8	5.8	5.8	5.8	5.8
75°	19.4	9.7	3.9	3.9	5.8	5.8	7.8	7.8	5.8	5.8	5.8
77.5°	13.6	9.7	3.9	3.9	5.8	5.8	7.8	7.8	5.8	5.8	5.8
80°	7.8	9.7	3.9	5.8	5.8	11.7	13.6	7.8	5.8	5.8	5.8
82.5°	7.8	9.7	11.7	11.7	5.8	9.7	11.7	9.7	7.8	5.8	5.8
85°	7.8	5.8	7.8	9.7	5.8	9.7	9.7	7.8	7.8	5.8	5.8
87.5°	3.9	5.8	5.8	7.8	7.8	7.8	9.7	7.8	7.8	7.8	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-LD5-120SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2
2.5°	7111.3	7119.1	6996.7	6954.0	6990.9	6983.1	6950.1	6827.7	6814.1	6732.5	6614.0
5°	6796.6	6849.1	6785.0	6895.7	6843.2	6895.7	7055.0	7128.8	7249.2	7323.0	7350.2
7.5°	6577.1	6588.8	6588.8	6598.5	6608.2	6610.2	6598.5	6590.7	6557.7	6516.9	6590.7
10°	6311.0	6324.6	6347.9	6344.0	6342.1	6382.9	6392.6	6476.1	6472.2	6487.8	6544.1
12.5°	6173.1	6068.2	6163.4	6138.1	6173.1	6118.7	6219.7	6202.2	6208.1	6254.7	6375.1
15°	5943.9	5976.9	6000.2	6000.2	6013.8	6002.2	5990.5	6070.2	6118.7	6120.7	6112.9
17.5°	5503.0	5252.4	5508.8	5442.7	5969.1	5982.7	5938.1	5901.2	5901.2	5930.3	5992.5
20°	4724.0	4729.9	4731.8	4757.1	4788.1	4786.2	4788.1	5553.5	5916.7	5833.2	5776.8
22.5°	4141.3	4069.4	4203.5	4193.7	4360.8	4545.3	4722.1	4704.6	4716.3	5256.3	5741.9
25°	3319.6	3412.9	3337.1	3370.1	3558.6	3778.1	3914.0	4269.5	4656.0	4628.9	4755.1
27.5°	3125.4	3100.1	3135.1	3135.1	3160.4	3189.5	3265.3	3465.3	3809.1	4170.4	4512.3
30°	2940.9	2962.2	2966.1	3001.1	3020.5	3039.9	3051.6	3127.3	3205.0	3455.6	3877.1
32.5°	2208.6	1936.6	2548.5	2713.6	2853.5	2886.5	2909.8	2940.9	2997.2	3034.1	3245.8
35°	64.1	64.1	68.0	77.7	99.1	668.2	2544.6	2804.9	2841.8	2888.4	2927.3
37.5°	31.1	23.3	27.2	29.1	35.0	48.6	69.9	217.6	2422.2	2738.9	2781.6
40°	13.6	13.6	13.6	13.6	15.5	19.4	29.1	48.6	73.8	1948.3	2628.1
42.5°	11.7	11.7	11.7	11.7	11.7	11.7	13.6	17.5	35.0	83.5	1379.1
45°	7.8	7.8	5.8	7.8	7.8	9.7	11.7	11.7	15.5	52.4	95.2
47.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	9.7	11.7	35.0	50.5
50°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	27.2	35.0
52.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	11.7	31.1
55°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.8	5.8	7.8	27.2
57.5°	3.9	3.9	3.9	3.9	3.9	5.8	3.9	3.9	5.8	5.8	25.3
60°	3.9	3.9	3.9	3.9	3.9	5.8	5.8	5.8	5.8	5.8	23.3
62.5°	5.8	5.8	3.9	5.8	3.9	3.9	5.8	5.8	5.8	5.8	15.5
65°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	3.9	5.8
67.5°	5.8	5.8	5.8	5.8	3.9	5.8	3.9	5.8	5.8	3.9	3.9
70°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	3.9	3.9	3.9	3.9
72.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	3.9	3.9	3.9	3.9
75°	5.8	5.8	5.8	5.8	5.8	5.8	7.8	7.8	3.9	3.9	3.9
77.5°	5.8	5.8	5.8	5.8	5.8	5.8	9.7	11.7	9.7	9.7	3.9
80°	5.8	5.8	5.8	5.8	5.8	5.8	9.7	9.7	9.7	9.7	13.6
82.5°	5.8	5.8	5.8	5.8	5.8	5.8	7.8	7.8	7.8	7.8	9.7
85°	5.8	5.8	5.8	5.8	5.8	5.8	7.8	7.8	7.8	5.8	7.8
87.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	7.8	5.8	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-LD5-120SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2
2.5°	6623.7	6557.7	6536.3	6491.7	6487.8	6491.7	6482.0	6468.4	6476.1	6462.5	6450.9
5°	7365.8	7189.0	7074.4	6920.9	6709.2	6662.6	6650.9	6584.9	6561.6	6553.8	6522.7
7.5°	6765.5	7088.0	7282.2	7348.3	7099.6	7041.4	6973.4	6919.0	6866.6	6767.5	6707.3
10°	6499.4	6515.0	6701.4	6919.0	7272.5	7321.1	7358.0	7239.5	7206.5	6954.0	6899.6
12.5°	6437.3	6439.2	6460.6	6592.7	6870.4	6901.5	7031.7	7101.6	7187.1	7235.6	7196.8
15°	6153.7	6311.0	6427.6	6439.2	6464.5	6518.9	6557.7	6800.5	6903.5	7179.3	7163.7
17.5°	6021.6	6072.1	6241.1	6379.0	6355.7	6336.3	6367.3	6400.4	6499.4	6775.3	6771.4
20°	5802.1	5963.3	6054.6	6198.4	6328.5	6334.3	6299.4	6279.9	6241.1	6285.8	6326.6
22.5°	5708.9	5734.1	5905.0	6006.1	6153.7	6206.1	6213.9	6215.8	6194.5	6171.2	6159.5
25°	5699.1	5619.5	5706.9	5833.2	5941.9	5998.3	6062.4	6083.7	6076.0	6076.0	6064.3
27.5°	4663.8	5594.3	5547.6	5631.2	5763.2	5802.1	5835.1	5901.2	5941.9	5971.1	5984.7
30°	4442.4	4609.4	5423.3	5435.0	5569.0	5565.1	5602.0	5656.4	5708.9	5776.8	5794.3
32.5°	3929.6	4339.4	4964.9	5238.8	5378.6	5392.2	5411.7	5427.2	5475.8	5551.5	5617.6
35°	3148.7	3952.9	4254.0	5145.5	5170.8	5198.0	5209.6	5246.6	5262.1	5293.2	5351.4
37.5°	2849.6	3267.2	4081.1	4450.1	4931.9	4955.2	5017.3	5032.9	5058.1	5083.4	5128.1
40°	2676.7	2791.3	3397.3	3974.2	4739.6	4755.1	4776.5	4815.3	4817.3	4846.4	4887.2
42.5°	2538.8	2612.6	2789.4	3795.5	4603.6	4601.7	4551.2	4576.4	4588.1	4619.1	4675.5
45°	2027.9	2451.4	2564.0	3100.1	3665.4	3929.6	4436.6	4353.0	4351.1	4362.7	4423.0
47.5°	102.9	2305.7	2385.3	2558.2	3461.4	3471.2	3537.2	4092.7	4178.2	4151.0	4156.8
50°	69.9	159.3	2222.2	2301.8	2983.6	3224.5	3273.0	3298.3	3618.8	3976.2	3917.9
52.5°	54.4	91.3	1361.7	2136.7	2424.2	2600.9	2913.7	3092.4	3111.8	3255.5	3743.1
55°	48.6	69.9	147.6	1971.6	2060.9	2099.8	2282.4	2595.1	2847.6	2923.4	2929.2
57.5°	42.7	64.1	101.0	891.6	1874.5	1882.2	1913.3	2022.1	2249.4	2457.2	2692.2
60°	38.8	56.3	79.6	153.5	1703.5	1723.0	1728.8	1757.9	1785.1	1926.9	2196.9
62.5°	23.3	44.7	69.9	110.7	1348.1	1548.1	1546.2	1565.6	1590.9	1606.4	1660.8
65°	19.4	35.0	60.2	93.2	165.1	205.9	1250.9	1390.8	1406.3	1427.7	1437.4
67.5°	17.5	31.1	44.7	73.8	124.3	141.8	163.2	202.0	1103.3	1243.2	1262.6
70°	15.5	21.4	36.9	62.2	101.0	108.8	122.4	139.9	165.1	204.0	998.4
72.5°	9.7	15.5	25.3	44.7	77.7	87.4	95.2	106.8	118.5	141.8	163.2
75°	3.9	11.7	21.4	33.0	60.2	66.0	71.9	79.6	89.4	104.9	116.5
77.5°	3.9	9.7	17.5	23.3	38.8	44.7	52.4	58.3	66.0	73.8	85.5
80°	13.6	7.8	11.7	17.5	27.2	29.1	33.0	36.9	42.7	48.6	56.3
82.5°	9.7	11.7	13.6	11.7	13.6	17.5	19.4	23.3	25.3	29.1	31.1
85°	7.8	7.8	9.7	9.7	9.7	9.7	9.7	9.7	11.7	13.6	17.5
87.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	7.8	7.8
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-LD5-120SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2
2.5°	6450.9	6447.0	6435.3	6435.3	6433.4	6441.2	6447.0	6452.8	6450.9	6462.5	6450.9
5°	6499.4	6489.7	6472.2	6456.7	6450.9	6454.8	6448.9	6454.8	6447.0	6456.7	6439.2
7.5°	6633.5	6600.4	6532.5	6505.3	6470.3	6468.4	6450.9	6447.0	6435.3	6435.3	6414.0
10°	6870.4	6711.2	6691.7	6610.2	6581.0	6439.2	6470.3	6417.8	6412.0	6386.8	6377.1
12.5°	7064.7	6940.4	6903.5	6831.6	6750.0	6462.5	6526.6	6414.0	6408.1	6357.6	6305.2
15°	7068.6	7140.4	7039.4	6841.3	6823.8	6625.7	6495.5	6456.7	6406.2	6254.7	6279.9
17.5°	6841.3	7006.4	7055.0	7012.2	6887.9	6753.9	6571.3	6493.6	6342.1	6274.1	6227.5
20°	6472.2	6639.3	6847.1	6860.7	6938.4	6843.2	6604.3	6478.1	6295.5	6177.0	6138.1
22.5°	6178.9	6301.3	6540.2	6650.9	6746.1	6779.1	6627.6	6441.2	6213.9	6099.3	6076.0
25°	6023.5	6050.7	6122.6	6252.7	6462.5	6614.0	6635.4	6437.3	6318.8	6068.2	5936.1
27.5°	5967.2	5943.9	5914.8	5980.8	6138.1	6322.7	6445.0	6478.1	6182.8	5943.9	5811.8
30°	5823.5	5837.1	5792.4	5769.1	5872.0	6062.4	6279.9	6334.3	6107.1	5860.4	5708.9
32.5°	5646.7	5670.0	5677.8	5637.0	5615.6	5747.7	5982.7	6112.9	6101.2	5741.9	5572.9
35°	5425.3	5491.3	5508.8	5510.7	5475.8	5454.4	5590.4	5860.4	5963.3	5687.5	5442.7
37.5°	5192.2	5211.6	5306.8	5332.0	5332.0	5267.9	5368.9	5584.5	5728.3	5565.1	5283.5
40°	4900.8	4963.0	5052.3	5097.0	5141.7	5147.5	5091.2	5242.7	5479.6	5438.9	5133.9
42.5°	4689.1	4729.9	4784.3	4844.5	4935.8	4959.1	4900.8	4928.0	5174.7	5281.5	4939.6
45°	4442.4	4496.8	4512.3	4578.4	4673.5	4741.5	4739.6	4683.2	4881.4	5013.5	4797.8
47.5°	4189.9	4242.3	4269.5	4302.5	4372.5	4459.9	4508.4	4483.2	4522.0	4780.4	4609.4
50°	3929.6	3958.7	4013.1	4050.0	4096.6	4147.1	4263.7	4287.0	4232.6	4438.5	4401.6
52.5°	3682.9	3692.6	3729.5	3766.4	3828.6	3865.5	3958.7	4028.6	4024.8	4085.0	4170.4
55°	3490.6	3447.8	3455.6	3484.8	3525.5	3581.9	3634.3	3743.1	3780.0	3791.7	3927.6
57.5°	2727.2	3166.2	3205.0	3203.1	3251.7	3276.9	3325.5	3397.3	3529.4	3500.3	3651.8
60°	2478.6	2527.1	2894.2	2937.0	2954.5	2977.8	3036.0	3102.1	3199.2	3261.4	3327.4
62.5°	1890.0	2185.3	2296.0	2620.4	2670.9	2684.5	2723.3	2754.4	2855.4	2997.2	2970.0
65°	1462.7	1588.9	1926.9	2059.0	2334.8	2369.8	2424.2	2457.2	2486.3	2649.5	2657.3
67.5°	1264.5	1284.0	1375.3	1629.7	1804.5	2074.5	2107.6	2136.7	2181.4	2297.9	2369.8
70°	1080.0	1103.3	1128.6	1149.9	1377.2	1555.9	1806.5	1816.2	1845.3	1923.0	2086.2
72.5°	204.0	922.7	938.2	951.8	977.1	1095.5	1334.5	1528.7	1540.4	1577.3	1726.8
75°	137.9	161.2	221.4	761.4	786.7	794.5	835.3	1078.1	1256.8	1264.5	1330.6
77.5°	99.1	110.7	134.0	159.3	406.0	609.9	619.6	664.3	848.8	982.9	994.5
80°	68.0	75.8	89.4	101.0	124.3	163.2	450.6	464.2	487.6	672.1	707.1
82.5°	38.8	44.7	52.4	64.1	73.8	93.2	120.4	155.4	316.6	338.0	448.7
85°	19.4	21.4	25.3	31.1	36.9	44.7	60.2	73.8	101.0	182.6	188.4
87.5°	9.7	9.7	9.7	9.7	15.5	17.5	21.4	27.2	35.0	52.4	68.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2
2.5°	6452.8	6480.0	6503.3	6509.1	6509.1	6513.0	6518.9	6522.7	6526.6	6530.5	6526.6
5°	6441.2	6470.3	6489.7	6495.5	6495.5	6507.2	6516.9	6528.6	6534.4	6534.4	6530.5
7.5°	6412.0	6433.4	6458.6	6474.2	6476.1	6495.5	6513.0	6511.1	6518.9	6522.7	6532.5
10°	6373.2	6373.2	6415.9	6427.6	6437.3	6458.6	6464.5	6476.1	6503.3	6507.2	6532.5
12.5°	6353.7	6334.3	6384.8	6390.7	6423.7	6396.5	6431.4	6443.1	6415.9	6452.8	6404.3
15°	6266.3	6289.6	6281.9	6299.4	6357.6	6326.6	6421.7	6390.7	6460.6	6377.1	6524.7
17.5°	6194.5	6190.6	6221.7	6237.2	6248.9	6314.9	6340.2	6375.1	6402.3	6379.0	6437.3
20°	6142.0	6110.9	6134.3	6151.7	6192.5	6243.0	6258.6	6206.1	6297.4	6452.8	6489.7
22.5°	6043.0	6021.6	6048.8	6048.8	6110.9	6103.2	6161.4	6128.4	6213.9	6394.5	6583.0
25°	5908.9	5910.9	5940.0	5975.0	5986.6	6074.0	6105.1	6147.8	6254.7	6470.3	6584.9
27.5°	5773.0	5761.3	5778.8	5850.7	5910.9	5975.0	5984.7	6130.4	6276.1	6423.7	6524.7
30°	5637.0	5625.3	5637.0	5689.4	5761.3	5804.0	5910.9	6105.1	6241.1	6342.1	6437.3
32.5°	5491.3	5479.6	5506.8	5545.7	5671.9	5677.8	5889.5	6072.1	6178.9	6252.7	6235.3
35°	5335.9	5320.4	5345.6	5405.8	5522.4	5565.1	5786.6	5922.5	6043.0	6077.9	5996.3
37.5°	5149.4	5122.2	5153.3	5236.8	5359.2	5483.5	5668.1	5825.4	5889.5	5796.3	5699.1
40°	4955.2	4935.8	4990.1	5032.9	5176.6	5349.5	5561.2	5671.9	5631.2	5524.3	5417.5
42.5°	4782.3	4741.5	4790.1	4871.7	5034.8	5231.0	5401.9	5464.1	5367.0	5209.6	5085.3
45°	4570.6	4522.0	4580.3	4689.1	4863.9	5087.3	5221.3	5199.9	5034.8	4898.9	4727.9
47.5°	4349.1	4290.9	4349.1	4479.3	4675.5	4912.5	5009.6	4912.5	4704.6	4533.7	4395.8
50°	4131.6	4063.6	4119.9	4316.1	4508.4	4691.0	4689.1	4500.7	4376.3	4189.9	4069.4
52.5°	3916.0	3818.9	3875.2	4088.9	4281.2	4489.0	4335.5	4160.7	4011.2	3848.0	3809.1
55°	3649.9	3545.0	3620.7	3931.5	4079.1	4201.5	3956.8	3803.3	3655.7	3574.1	3525.5
57.5°	3397.3	3282.7	3348.8	3715.9	3824.7	3855.8	3630.4	3412.9	3325.5	3298.3	3228.3
60°	3137.1	3006.9	3069.1	3492.5	3568.3	3442.0	3220.6	3051.6	3034.1	2979.7	2925.3
62.5°	2888.4	2744.7	2783.5	3214.8	3249.7	3020.5	2816.6	2771.9	2729.1	2674.8	2645.6
65°	2602.9	2453.3	2507.7	2919.5	2886.5	2591.2	2476.6	2466.9	2410.6	2365.9	2408.6
67.5°	2340.7	2163.9	2239.6	2597.1	2447.5	2206.6	2160.0	2136.7	2092.0	2117.3	1668.6
70°	2053.2	1860.9	1963.8	2249.4	2027.9	1868.6	1851.2	1816.2	1818.1	1445.2	1217.9
72.5°	1732.7	1565.6	1715.2	1868.6	1604.5	1557.8	1532.6	1528.7	1233.5	1002.3	946.0
75°	1451.0	1282.0	1443.2	1501.5	1278.1	1247.1	1245.1	1029.5	810.0	773.1	755.6
77.5°	1132.4	1002.3	1155.8	1068.3	980.9	946.0	848.8	637.1	609.9	584.7	219.5
80°	763.4	773.1	862.4	736.2	699.3	596.3	470.1	450.6	388.5	155.4	122.4
82.5°	464.2	582.7	549.7	460.4	450.6	324.4	297.2	151.5	112.7	89.4	77.7
85°	240.9	295.3	283.6	250.6	186.5	167.1	93.2	71.9	58.3	44.7	36.9
87.5°	81.6	108.8	104.9	83.5	64.1	50.5	33.0	27.2	19.4	15.5	13.6
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-LD5-120SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2
2.5°	6522.7	6522.7	6518.9	6522.7	6524.7	6520.8	6520.8	6524.7	6526.6	6528.6	6538.3
5°	6532.5	6536.3	6542.2	6553.8	6555.8	6579.1	6588.8	6594.6	6600.4	6602.4	6588.8
7.5°	6553.8	6567.4	6579.1	6577.1	6563.5	6526.6	6515.0	6505.3	6522.7	6567.4	6619.9
10°	6573.2	6511.1	6394.5	6553.8	6505.3	6549.9	6682.0	6711.2	6800.5	6926.8	6963.7
12.5°	6439.2	6610.2	6647.1	6468.4	6798.6	6676.2	6821.9	6950.1	6987.0	7115.2	7037.5
15°	6583.0	6666.5	6722.8	6901.5	6882.1	6987.0	7027.8	7002.5	7008.4	7041.4	7128.8
17.5°	6581.0	6748.1	6785.0	6905.4	6987.0	6988.9	6977.3	6965.6	6996.7	7022.0	6969.5
20°	6693.7	6748.1	6819.9	6868.5	6884.0	6903.5	6940.4	6911.2	6853.0	6796.6	6773.3
22.5°	6637.3	6759.7	6821.9	6829.6	6819.9	6759.7	6705.3	6623.7	6596.6	6567.4	6577.1
25°	6649.0	6705.3	6697.6	6666.5	6625.7	6513.0	6485.8	6450.9	6398.4	6272.2	6157.6
27.5°	6565.5	6536.3	6501.4	6425.6	6351.8	6291.6	6223.6	6110.9	6017.7	5881.7	5831.2
30°	6425.6	6309.1	6223.6	6178.9	6107.1	6006.1	5903.1	5765.2	5646.7	5619.5	5594.3
32.5°	6157.6	6043.0	5973.0	5864.3	5741.9	5621.4	5503.0	5448.6	5423.3	5427.2	5403.9
35°	5883.7	5782.7	5677.8	5514.6	5423.3	5302.9	5260.2	5248.5	5225.2	5199.9	5172.7
37.5°	5592.3	5473.8	5316.5	5219.4	5128.1	5079.5	5058.1	5040.7	4999.9	4955.2	4924.1
40°	5310.7	5097.0	5009.6	4914.4	4887.2	4865.8	4834.8	4792.0	4735.7	4727.9	4714.3
42.5°	4933.8	4780.4	4704.6	4685.2	4652.2	4615.3	4588.1	4541.4	4518.1	4533.7	4545.3
45°	4576.4	4498.7	4473.5	4450.1	4388.0	4335.5	4318.1	4302.5	4321.9	4407.4	4203.5
47.5°	4287.0	4255.9	4224.8	4186.0	4127.7	4088.9	4106.3	4121.9	4139.4	3511.9	3205.0
50°	4036.4	3993.7	3945.1	3902.4	3867.4	3863.5	3954.8	3680.9	3082.7	3067.1	2756.3
52.5°	3762.5	3698.4	3669.3	3644.0	3659.6	3717.8	3076.8	2855.4	2738.9	2379.5	2220.2
55°	3467.3	3410.9	3410.9	3434.2	3350.7	2715.5	2682.5	2319.3	2099.8	2037.6	2012.4
57.5°	3172.0	3166.2	3199.2	2925.3	2465.0	2364.0	1987.1	1907.5	1872.5	1864.8	1824.0
60°	2902.0	2956.4	2474.7	2276.5	1979.4	1785.1	1730.7	1721.0	1684.1	1670.5	1633.6
62.5°	2686.4	2228.0	2074.5	1693.8	1594.8	1569.5	1540.4	1526.8	1493.7	1318.9	386.5
65°	1940.5	1833.7	1487.9	1423.8	1416.0	1379.1	1367.5	1229.6	289.4	194.2	165.1
67.5°	1464.6	1299.5	1254.8	1243.2	1206.3	1132.4	336.0	192.3	165.1	143.7	126.3
70°	1124.7	1095.5	1062.5	1035.3	305.0	190.4	165.1	139.9	120.4	106.8	97.1
72.5°	920.7	901.3	524.5	200.1	163.2	137.9	122.4	106.8	93.2	85.5	77.7
75°	720.6	200.1	165.1	137.9	118.5	101.0	89.4	79.6	71.9	66.0	60.2
77.5°	163.2	132.1	112.7	95.2	85.5	75.8	68.0	58.3	52.4	46.6	38.8
80°	101.0	87.4	73.8	68.0	58.3	48.6	42.7	38.8	31.1	29.1	25.3
82.5°	66.0	52.4	46.6	38.8	31.1	29.1	25.3	19.4	17.5	15.5	13.6
85°	29.1	25.3	21.4	17.5	13.6	11.7	9.7	7.8	7.8	7.8	7.8
87.5°	9.7	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	3.9	3.9
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-LD5-120SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2
2.5°	6542.2	6577.1	6610.2	6600.4	6565.5	6511.1	6495.5	6474.2	6489.7	6522.7	6536.3
5°	6588.8	6569.4	6639.3	6742.2	6909.3	6924.8	7041.4	7068.6	7161.8	7220.1	7218.1
7.5°	6654.8	6930.7	7045.3	7169.6	7225.9	7212.3	7229.8	7216.2	7194.8	7185.1	7173.5
10°	6990.9	7200.7	7243.4	7243.4	7156.0	7037.5	6987.0	6899.6	6724.8	6728.6	6699.5
12.5°	7187.1	7260.9	7159.9	7074.4	6722.8	6586.8	6439.2	6369.3	6328.5	6266.3	6289.6
15°	7084.1	6979.2	6919.0	6643.2	6427.6	6182.8	6186.7	6144.0	6099.3	6103.2	6074.0
17.5°	6932.6	6849.1	6421.7	6231.4	6126.5	6031.3	6013.8	5957.5	5928.4	5918.6	5916.7
20°	6724.8	6423.7	6105.1	6058.5	5932.2	5823.5	5806.0	5823.5	5912.8	5753.5	5213.5
22.5°	6482.0	6048.8	5955.5	5823.5	5738.0	5695.3	5802.1	5316.5	4582.2	4671.6	4576.4
25°	6070.2	5881.7	5722.5	5621.4	5611.7	5349.5	4457.9	4364.7	3892.7	3640.1	3356.6
27.5°	5769.1	5687.5	5520.4	5503.0	5376.7	4374.4	3910.1	3397.3	3208.9	3179.8	3117.6
30°	5586.5	5469.9	5368.9	4928.0	4290.9	3521.7	3137.1	3065.2	3032.2	2997.2	2942.8
32.5°	5367.0	5256.3	5304.8	4143.2	3420.7	3032.2	2954.5	2902.0	2841.8	2818.5	2622.3
35°	5143.6	5093.1	4145.2	3482.8	2940.9	2847.6	2789.4	2735.0	2175.5	526.4	178.7
37.5°	4904.7	4893.0	3725.6	2890.4	2754.4	2667.0	2501.9	516.7	122.4	83.5	62.2
40°	4718.2	3727.6	2944.8	2709.7	2599.0	2461.1	345.8	85.5	54.4	33.0	21.4
42.5°	4593.9	3352.7	2635.9	2542.7	2301.8	254.5	87.4	36.9	21.4	17.5	13.6
45°	3541.1	2647.6	2463.0	2365.9	291.4	87.4	50.5	17.5	13.6	11.7	7.8
47.5°	3267.2	2404.8	2296.0	516.7	97.1	46.6	35.0	11.7	7.8	7.8	7.8
50°	2474.7	2222.2	1827.8	126.3	62.2	33.0	25.3	7.8	7.8	7.8	5.8
52.5°	2169.7	2051.2	196.2	83.5	48.6	25.3	15.5	5.8	5.8	5.8	5.8
55°	1983.2	1301.4	116.5	64.1	40.8	23.3	9.7	5.8	5.8	5.8	3.9
57.5°	1814.2	174.8	85.5	54.4	36.9	21.4	5.8	5.8	5.8	5.8	3.9
60°	1538.4	126.3	69.9	48.6	35.0	19.4	5.8	5.8	5.8	5.8	5.8
62.5°	200.1	99.1	60.2	42.7	25.3	15.5	3.9	5.8	5.8	5.8	5.8
65°	145.7	77.7	54.4	29.1	15.5	5.8	3.9	5.8	5.8	5.8	5.8
67.5°	112.7	64.1	40.8	25.3	13.6	3.9	3.9	5.8	5.8	5.8	5.8
70°	89.4	54.4	33.0	21.4	11.7	3.9	3.9	5.8	5.8	5.8	5.8
72.5°	69.9	38.8	23.3	11.7	7.8	3.9	3.9	5.8	5.8	5.8	5.8
75°	52.4	31.1	17.5	9.7	3.9	3.9	3.9	5.8	5.8	5.8	5.8
77.5°	35.0	19.4	13.6	7.8	7.8	7.8	9.7	9.7	5.8	5.8	5.8
80°	23.3	13.6	9.7	9.7	9.7	7.8	9.7	9.7	5.8	9.7	5.8
82.5°	11.7	9.7	9.7	7.8	7.8	5.8	7.8	7.8	7.8	7.8	5.8
85°	7.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	7.8	7.8	5.8
87.5°	3.9	3.9	3.9	3.9	5.8	5.8	5.8	5.8	7.8	7.8	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-LD5-120SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2
2.5°	6518.9	6524.7	6509.1	6592.7	6549.9	6553.8	6571.3	6526.6	6536.3	6505.3	6483.9
5°	7225.9	7237.6	7249.2	7253.1	7260.9	7270.6	7258.9	7253.1	7241.4	7202.6	7161.8
7.5°	7115.2	7101.6	7095.8	7103.5	7117.1	7123.0	7113.2	7126.8	7177.3	7198.7	7212.3
10°	6532.5	6470.3	6513.0	6507.2	6458.6	6621.8	6577.1	6602.4	6619.9	6798.6	6907.3
12.5°	6254.7	6293.5	6219.7	6182.8	6231.4	6264.4	6297.4	6227.5	6324.6	6279.9	6423.7
15°	6021.6	5998.3	5990.5	5992.5	5982.7	6029.4	6041.0	6056.6	6070.2	6130.4	6153.7
17.5°	5916.7	5955.5	5971.1	5982.7	5963.3	5941.9	5920.6	5889.5	5899.2	5883.7	5928.4
20°	4850.3	4720.1	4712.4	4788.1	4704.6	4751.2	4863.9	5617.6	5592.3	5885.6	5786.6
22.5°	4048.1	3925.7	3820.8	3729.5	3859.6	3914.0	4123.8	4360.8	4745.4	4685.2	5102.8
25°	3306.0	3261.4	3234.2	3220.6	3230.3	3226.4	3273.0	3383.7	3558.6	3970.4	4502.6
27.5°	3092.4	3071.0	3061.3	3030.2	3053.5	3045.8	3082.7	3106.0	3158.4	3199.2	3372.1
30°	2923.4	2898.1	2880.7	2847.6	2870.9	2872.9	2884.5	2944.8	2966.1	3001.1	3055.5
32.5°	1068.3	629.4	590.5	561.4	613.8	800.3	1404.4	2455.3	2801.0	2828.2	2890.4
35°	104.9	87.4	77.7	77.7	79.6	87.4	116.5	306.9	561.4	2169.7	2715.5
37.5°	40.8	35.0	29.1	27.2	29.1	33.0	44.7	58.3	79.6	165.1	736.2
40°	17.5	15.5	13.6	13.6	13.6	13.6	15.5	19.4	29.1	54.4	85.5
42.5°	11.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	13.6	17.5	35.0
45°	7.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	7.8	9.7	15.5
47.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	7.8
50°	5.8	5.8	5.8	5.8	3.9	5.8	3.9	5.8	5.8	5.8	5.8
52.5°	5.8	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.8	5.8
55°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.8
57.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
60°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
62.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.8	5.8	3.9
65°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.8	3.9
67.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
70°	5.8	5.8	3.9	5.8	3.9	3.9	5.8	5.8	5.8	3.9	3.9
72.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	11.7	11.7	7.8
75°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	9.7	11.7	9.7
77.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	9.7	9.7	9.7
80°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	7.8	7.8	7.8
82.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	7.8	7.8	7.8
85°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
87.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	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-LD5-120SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2
2.5°	6447.0	6445.0	6485.8	6516.9	6505.3	6516.9	6530.5	6532.5	6536.3	6520.8	6515.0
5°	7084.1	7023.9	6907.3	6823.8	6726.7	6549.9	6462.5	6472.2	6474.2	6468.4	6476.1
7.5°	7206.5	7200.7	7159.9	7142.4	7076.3	6950.1	6748.1	6713.1	6627.6	6573.2	6528.6
10°	6899.6	7039.4	7076.3	7138.5	7177.3	7154.0	6983.1	6957.9	6903.5	6841.3	6854.9
12.5°	6567.4	6682.0	6687.8	7025.8	7101.6	7109.4	7043.3	7078.3	7086.1	6946.2	6864.6
15°	6159.5	6213.9	6328.5	6643.2	6872.4	7016.1	7058.9	7078.3	6983.1	6977.3	6944.3
17.5°	5980.8	6015.8	6068.2	6245.0	6592.7	6804.4	6985.0	6971.4	7008.4	6981.2	6897.6
20°	5755.5	5784.6	5877.8	5967.2	6138.1	6419.8	6757.8	6783.0	6831.6	6825.8	6849.1
22.5°	5751.6	5648.6	5664.2	5734.1	5912.8	6165.3	6524.7	6608.2	6639.3	6660.7	6685.9
25°	4562.8	5380.6	5530.2	5574.8	5691.4	5839.0	6262.5	6293.5	6351.8	6447.0	6516.9
27.5°	3952.9	4508.4	5106.7	5417.5	5491.3	5613.7	5866.2	5912.8	6110.9	6134.3	6243.0
30°	3119.6	3548.9	4442.4	5190.2	5312.6	5398.1	5576.8	5670.0	5755.5	5848.7	5963.3
32.5°	2935.0	3003.0	3498.3	4294.8	5246.6	5182.5	5314.5	5370.9	5464.1	5545.7	5629.2
35°	2766.0	2812.7	2917.6	3517.8	4273.4	5005.7	5095.0	5131.9	5184.4	5246.6	5306.8
37.5°	2589.3	2659.2	2731.1	2892.3	3952.9	4865.8	4863.9	4906.6	4937.7	4990.1	5040.7
40°	470.1	2441.7	2558.2	2663.1	3065.2	3881.0	4646.3	4665.8	4687.1	4720.1	4772.6
42.5°	75.8	407.9	2397.0	2498.0	2612.6	3475.0	4547.3	4467.6	4454.0	4477.3	4524.0
45°	38.8	99.1	481.7	2332.9	2435.8	2771.9	3717.8	4329.7	4316.1	4271.4	4281.2
47.5°	29.1	62.2	118.5	806.1	2280.4	2379.5	3430.4	3393.5	3651.8	4147.1	4071.4
50°	25.3	42.7	69.9	165.1	2014.3	2191.1	2641.7	3086.6	3222.5	3240.0	3834.4
52.5°	23.3	29.1	50.5	106.8	423.5	2026.0	2148.3	2303.7	2533.0	3024.4	3012.7
55°	21.4	27.2	42.7	71.9	147.6	1825.9	1952.2	1981.3	2029.9	2264.9	2575.7
57.5°	11.7	25.3	40.8	62.2	110.7	334.1	1771.5	1794.8	1833.7	1843.4	1954.1
60°	5.8	23.3	36.9	54.4	81.6	155.4	1592.8	1620.0	1643.3	1647.2	1682.2
62.5°	3.9	21.4	31.1	50.5	68.0	110.7	376.8	769.2	1462.7	1462.7	1503.5
65°	3.9	15.5	19.4	33.0	62.2	91.3	159.3	184.5	359.4	883.8	1318.9
67.5°	3.9	5.8	17.5	27.2	46.6	69.9	116.5	136.0	163.2	186.5	345.8
70°	3.9	3.9	15.5	17.5	29.1	52.4	83.5	95.2	110.7	126.3	145.7
72.5°	3.9	3.9	13.6	13.6	19.4	35.0	64.1	69.9	79.6	89.4	102.9
75°	9.7	7.8	11.7	11.7	13.6	27.2	48.6	54.4	58.3	66.0	75.8
77.5°	9.7	9.7	9.7	9.7	9.7	17.5	31.1	35.0	40.8	44.7	52.4
80°	7.8	7.8	7.8	9.7	9.7	11.7	19.4	21.4	23.3	29.1	31.1
82.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	11.7	13.6	17.5
85°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	7.8	7.8	7.8	7.8
87.5°	5.8	5.8	5.8	3.9	3.9	5.8	5.8	5.8	5.8	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-LD5-120SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2	6472.2
2.5°	6513.0	6501.4	6491.7	6497.5	6480.0	6472.2	6478.1	6480.0	6483.9	6493.6	6495.5
5°	6495.5	6491.7	6509.1	6518.9	6515.0	6518.9	6518.9	6511.1	6499.4	6507.2	6489.7
7.5°	6483.9	6458.6	6439.2	6443.1	6423.7	6447.0	6468.4	6499.4	6509.1	6509.1	6489.7
10°	6684.0	6656.8	6548.0	6474.2	6425.6	6382.9	6483.9	6380.9	6429.5	6245.0	6456.7
12.5°	6849.1	6886.0	6837.4	6635.4	6600.4	6472.2	6546.1	6419.8	6382.9	6171.2	6239.1
15°	6915.1	6845.2	6829.6	6773.3	6697.6	6660.7	6462.5	6441.2	6380.9	6404.3	6314.9
17.5°	6856.8	6891.8	6845.2	6808.3	6730.6	6643.2	6524.7	6419.8	6336.3	6149.8	6307.1
20°	6800.5	6847.1	6707.3	6730.6	6738.4	6637.3	6575.2	6487.8	6382.9	6208.1	6072.1
22.5°	6707.3	6674.3	6685.9	6650.9	6621.8	6635.4	6549.9	6489.7	6313.0	6233.3	6048.8
25°	6555.8	6544.1	6575.2	6571.3	6501.4	6478.1	6435.3	6371.2	6301.3	6173.1	6021.6
27.5°	6309.1	6369.3	6423.7	6448.9	6412.0	6349.9	6326.6	6289.6	6241.1	6110.9	5998.3
30°	6048.8	6116.8	6178.9	6233.3	6266.3	6239.1	6217.8	6196.4	6122.6	6037.1	5910.9
32.5°	5751.6	5840.9	5926.4	5992.5	6064.3	6085.7	6070.2	6052.7	5990.5	5912.8	5811.8
35°	5407.8	5530.2	5654.5	5773.0	5804.0	5854.5	5905.0	5875.9	5842.9	5765.2	5671.9
37.5°	5116.4	5203.8	5293.2	5442.7	5551.5	5615.6	5705.0	5716.6	5660.3	5623.4	5501.0
40°	4815.3	4895.0	5025.1	5112.5	5262.1	5335.9	5431.1	5473.8	5460.2	5438.9	5332.0
42.5°	4578.4	4617.2	4702.7	4780.4	4928.0	5079.5	5163.0	5209.6	5258.2	5240.7	5186.3
45°	4325.8	4360.8	4389.9	4457.9	4601.7	4735.7	4838.6	4908.6	4996.0	5036.8	4970.7
47.5°	4075.3	4085.0	4119.9	4176.3	4261.7	4364.7	4537.6	4642.5	4724.0	4803.7	4760.9
50°	3883.0	3848.0	3853.8	3888.8	3958.7	4059.7	4184.0	4331.7	4424.9	4522.0	4531.7
52.5°	3393.5	3677.1	3609.1	3628.5	3665.4	3714.0	3844.1	3989.8	4104.4	4187.9	4271.4
55°	2847.6	2904.0	3449.8	3372.1	3395.4	3438.1	3498.3	3644.0	3754.8	3871.3	3987.8
57.5°	2208.6	2628.1	2649.5	3154.5	3142.9	3146.8	3197.3	3280.8	3391.5	3537.2	3636.3
60°	1717.1	1893.9	2237.7	2412.5	2855.4	2870.9	2900.1	2948.6	3043.8	3181.7	3339.1
62.5°	1515.1	1538.4	1660.8	1923.0	2210.5	2558.2	2620.4	2628.1	2670.9	2808.8	2991.4
65°	1330.6	1346.1	1383.0	1410.2	1651.1	1987.1	2286.3	2334.8	2362.0	2443.6	2599.0
67.5°	916.8	1159.6	1192.7	1212.1	1235.4	1390.8	1761.8	2008.5	2039.6	2111.4	2247.4
70°	176.8	367.1	1004.2	1025.6	1037.3	1072.2	1132.4	1524.8	1730.7	1798.7	1860.9
72.5°	120.4	141.8	170.9	404.0	854.7	874.1	887.7	938.2	1285.9	1484.0	1517.1
75°	87.4	97.1	114.6	141.8	174.8	569.1	705.1	730.4	755.6	1043.1	1210.1
77.5°	62.2	69.9	77.7	91.3	106.8	137.9	198.1	545.8	571.1	584.7	825.5
80°	35.0	42.7	52.4	60.2	68.0	77.7	101.0	126.3	281.7	411.8	433.2
82.5°	19.4	23.3	27.2	33.0	36.9	46.6	56.3	68.0	89.4	132.1	279.7
85°	9.7	9.7	9.7	13.6	15.5	21.4	25.3	29.1	40.8	56.3	77.7
87.5°	5.8	5.8	7.8	7.8	7.8	9.7	9.7	9.7	11.7	17.5	25.3
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-LD5-120SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	6472.2	6472.2	6472.2	6472.2	6472.2
2.5°	6497.5	6491.7	6491.7	6515.0	6509.1
5°	6485.8	6480.0	6478.1	6503.3	6491.7
7.5°	6476.1	6454.8	6448.9	6472.2	6462.5
10°	6437.3	6421.7	6431.4	6423.7	6419.8
12.5°	6371.2	6361.5	6320.7	6324.6	6357.6
15°	6252.7	6291.6	6221.7	6283.8	6297.4
17.5°	6035.2	6122.6	6190.6	6227.5	6233.3
20°	6132.3	6161.4	6126.5	6128.4	6151.7
22.5°	6006.1	6019.6	6029.4	6017.7	6068.2
25°	5804.0	5751.6	5864.3	5887.6	5969.1
27.5°	5741.9	5699.1	5751.6	5747.7	5815.7
30°	5691.4	5553.5	5576.8	5613.7	5697.2
32.5°	5619.5	5401.9	5378.6	5460.2	5553.5
35°	5493.2	5287.3	5233.0	5285.4	5425.3
37.5°	5386.4	5128.1	5019.3	5089.2	5271.8
40°	5227.1	5003.7	4834.8	4896.9	5112.5
42.5°	5036.8	4896.9	4636.6	4679.4	4926.0
45°	4844.5	4720.1	4444.3	4465.7	4759.0
47.5°	4648.3	4533.7	4244.2	4248.1	4545.3
50°	4456.0	4304.5	4065.5	3997.6	4318.1
52.5°	4205.4	4065.5	3884.9	3774.2	4102.5
55°	3968.4	3811.1	3679.0	3508.1	3857.7
57.5°	3737.3	3562.5	3473.1	3253.6	3579.9
60°	3420.7	3337.1	3205.0	2995.3	3329.4
62.5°	3096.3	3069.1	2935.0	2717.5	3020.5
65°	2717.5	2781.6	2643.7	2457.2	2700.0
67.5°	2360.1	2474.7	2323.2	2208.6	2391.2
70°	1979.4	2111.4	2026.0	1985.2	2062.9
72.5°	1604.5	1732.7	1740.4	1711.3	1736.5
75°	1239.3	1381.1	1458.8	1414.1	1419.9
77.5°	940.1	1008.1	1093.6	1128.6	1120.8
80°	580.8	699.3	769.2	841.1	815.8
82.5°	293.3	392.4	477.8	555.5	518.6
85°	122.4	157.3	219.5	289.4	277.8
87.5°	36.9	62.2	66.0	93.2	87.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)