

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-LD5-130HL-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-LD5-130HL-RM-UNV-L930-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
METALIC FINISH REFLECTOR  
Light Source: -  
Ballast/Driver: -

**Summary**

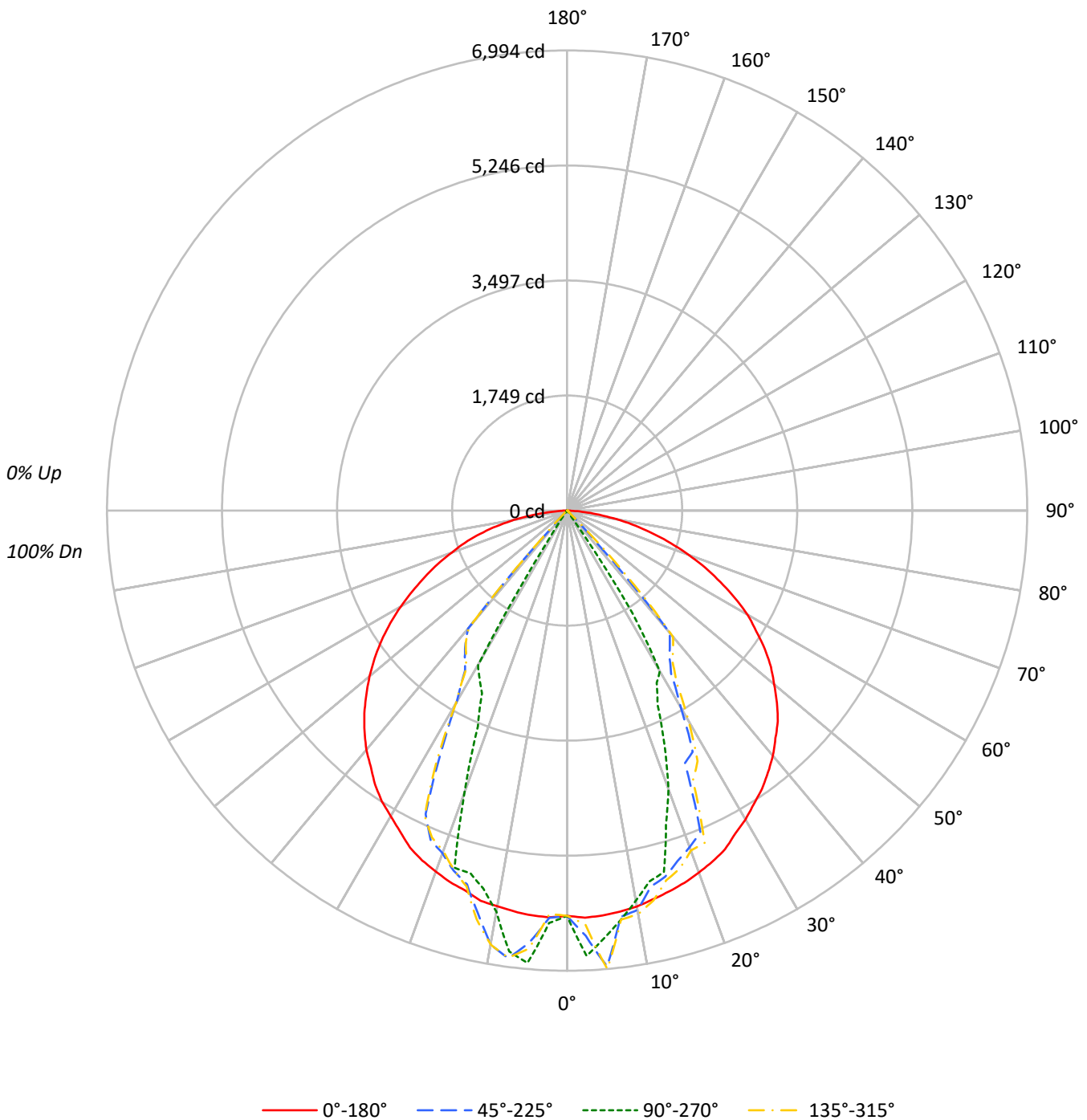
Lumens per Lamp: N/A  
Luminaire Lumens: 8756.9 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P#  
CATALOG NUMBER: 8SNLED-LD5-130HL-RM-UNV-L930-CD1-U

### 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°	24884	24884	24884	24884
5°	25020	25593	25012	27102
10°	24994	23158	24979	23827
15°	24961	21616	24899	21672
20°	25027	17026	24956	17236
25°	25139	12321	25016	11627
30°	25066	10808	24801	10390
35°	25188	238	24818	289
40°	25327	52	24721	52
45°	25478	31	24521	23
50°	25355	24	24192	24
55°	25294	17	23740	17
60°	24926	18	22977	18
65°	23767	29	22074	20
70°	22235	32	21166	32
75°	19930	36	20258	36
80°	16593	41	17542	41
85°	10396	48	10616	48



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	617.9	7.1
10°-20°	1685.3	19.2
20°-30°	2144.6	24.5
30°-40°	1811.6	20.7
40°-50°	1184.4	13.5
50°-60°	746.2	8.5
60°-70°	397.2	4.5
70°-80°	144.8	1.7
80°-90°	24.9	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°	4447.8	50.8
0°-40°	6259.4	71.5
0°-60°	8190.0	93.5
0°-90°	8756.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8756.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	6159	6159	6159	6159	6159	
5°	6177	6517	6175	6902	6177	587
15°	5992	5687	5977	5702	5992	1694
25°	5680	3248	5652	3064	5680	2612
35°	5162	61	5087	74	5162	3229
45°	4528	7	4358	6	4528	3483
55°	3671	4	3445	4	3671	3271
65°	2569	6	2386	4	2569	2544
75°	1351	6	1373	6	1351	1434
85°	264	6	270	6	264	334
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6
2.5°	6193.7	6197.4	6199.2	6202.9	6208.5	6210.3	6214.0	6210.3	6210.3	6210.3	6210.3
5°	6177.1	6184.5	6190.0	6197.4	6210.3	6212.2	6227.0	6228.8	6236.2	6251.0	6262.1
7.5°	6149.3	6156.7	6167.8	6186.3	6204.8	6225.1	6251.0	6278.7	6317.5	6354.5	6400.7
10°	6108.7	6117.9	6130.9	6147.5	6238.1	6251.0	6308.3	6387.8	6409.9	6526.4	6613.3
12.5°	6049.5	6080.9	6114.2	6129.0	6215.9	6352.7	6544.9	6506.1	6463.5	6844.3	6838.8
15°	5992.2	6034.7	6018.1	6138.2	6217.7	6456.2	6374.8	6548.6	6866.5	6788.9	6792.5
17.5°	5931.2	5940.5	6032.9	6132.7	6275.0	6397.0	6496.8	6735.3	6798.1	6803.6	6735.3
20°	5853.6	5898.0	6032.9	6123.5	6363.7	6421.0	6637.3	6759.3	6733.4	6670.6	6554.1
22.5°	5774.1	5909.1	6045.8	6173.4	6341.6	6495.0	6602.2	6659.5	6524.5	6276.9	6143.8
25°	5679.9	5759.3	5938.6	6125.3	6336.0	6424.7	6487.6	6395.2	6219.6	5997.8	5774.1
27.5°	5533.8	5661.4	5890.6	6101.3	6291.7	6398.9	6297.2	6075.4	5792.6	5646.6	5544.9
30°	5421.1	5587.4	5776.0	5979.3	6177.1	6239.9	5981.1	5727.9	5533.8	5387.8	5365.7
32.5°	5284.3	5520.9	5700.2	5894.3	6060.6	5977.4	5726.1	5398.9	5238.1	5182.7	5204.8
35°	5162.3	5341.6	5576.4	5766.7	5886.9	5700.2	5302.8	5099.5	5021.9	5053.3	5012.6
37.5°	5016.3	5252.9	5469.2	5633.7	5593.0	5312.1	4975.7	4846.3	4855.5	4829.6	4752.0
40°	4864.8	5090.3	5315.7	5471.0	5328.7	4899.9	4676.2	4648.5	4654.1	4570.9	4460.0
42.5°	4687.3	4892.5	5118.0	5258.4	4951.6	4617.1	4465.5	4469.2	4421.2	4304.7	4245.6
45°	4528.4	4716.9	4951.6	4964.6	4587.5	4308.4	4264.1	4216.0	4108.8	4070.0	4025.6
47.5°	4325.1	4533.9	4728.0	4657.7	4230.8	4057.0	4023.8	3918.4	3864.8	3835.2	3798.3
50°	4108.8	4319.5	4496.9	4297.3	3894.4	3853.7	3744.7	3661.5	3624.5	3593.1	3559.8
52.5°	3903.6	4077.4	4258.5	3914.7	3635.6	3596.8	3473.0	3424.9	3388.0	3352.8	3345.4
55°	3670.7	3824.2	3948.0	3550.6	3388.0	3297.4	3208.7	3175.4	3140.3	3123.6	3151.4
57.5°	3406.4	3580.2	3561.7	3192.0	3120.0	2988.7	2955.5	2933.3	2907.4	2918.5	2687.4
60°	3168.0	3301.1	3210.5	2929.6	2807.6	2718.9	2689.3	2674.5	2689.3	2463.8	2166.2
62.5°	2874.1	3023.8	2840.9	2622.8	2493.4	2450.9	2425.0	2445.3	2229.1	1981.4	1909.3
65°	2569.2	2731.8	2462.0	2293.8	2212.4	2175.5	2173.6	2001.7	1789.2	1693.1	1693.1
67.5°	2275.3	2443.5	2096.0	1955.5	1924.1	1927.8	1820.6	1560.0	1500.8	1436.1	1249.5
70°	1962.9	2110.8	1731.9	1646.8	1628.4	1615.4	1354.8	1284.6	1214.3	1042.4	1027.7
72.5°	1652.4	1724.5	1391.8	1371.4	1367.8	1136.7	1085.0	964.8	883.5	863.2	853.9
75°	1351.1	1328.9	1099.7	1118.2	942.6	861.3	778.1	707.9	696.8	689.4	171.9
77.5°	1066.5	955.6	866.9	754.1	674.6	573.0	556.3	545.3	358.6	129.4	105.4
80°	776.3	619.2	576.7	489.8	417.7	401.1	410.3	125.7	99.8	83.2	72.1
82.5°	493.5	395.5	323.5	282.8	275.4	120.1	88.7	72.1	62.8	53.6	44.4
85°	264.3	175.6	162.7	136.8	81.3	55.4	46.2	35.1	29.6	24.0	22.2
87.5°	83.2	70.2	57.3	46.2	27.7	18.5	14.8	12.9	11.1	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#

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**CANDELA DISTRIBUTION (continued):**

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6
2.5°	6206.6	6210.3	6208.5	6214.0	6214.0	6221.4	6227.0	6232.5	6243.6	6249.1	6291.7
5°	6286.1	6295.4	6323.1	6349.0	6380.4	6389.6	6443.2	6456.2	6519.0	6526.4	6733.4
7.5°	6463.5	6498.7	6565.2	6631.7	6698.3	6740.8	6814.7	6860.9	6910.8	6955.2	7119.7
10°	6678.0	6737.1	6801.8	6868.3	6907.1	6988.5	7032.8	7040.2	7027.3	6955.2	6689.0
12.5°	6888.7	6947.8	6920.1	6933.0	6979.2	6835.1	6855.4	6751.9	6824.0	6467.2	6202.9
15°	6859.1	6855.4	6787.0	6565.2	6602.2	6326.8	6215.9	6130.9	6199.2	6162.3	6121.6
17.5°	6770.4	6602.2	6483.9	6217.7	6105.0	6027.3	6029.2	6031.0	5997.8	6032.9	5929.4
20°	6395.2	6206.6	6031.0	5936.8	5903.5	5848.1	5875.8	5848.1	5849.9	5861.0	5702.0
22.5°	5896.1	5838.8	5737.2	5766.7	5755.6	5805.5	5768.6	5711.3	5729.8	5646.6	5526.5
25°	5694.7	5628.1	5624.4	5635.5	5618.9	5596.7	5563.4	5476.6	5471.0	5445.1	5389.7
27.5°	5491.3	5495.0	5506.1	5472.9	5413.7	5369.3	5319.4	5276.9	5293.6	5264.0	5188.2
30°	5350.9	5349.0	5282.5	5252.9	5143.9	5145.7	5132.8	5106.9	5090.3	5092.1	5044.0
32.5°	5151.2	5093.9	5018.2	4981.2	4972.0	4938.7	4912.8	4918.4	4931.3	4885.1	4935.0
35°	4946.1	4827.8	4816.7	4785.3	4755.7	4733.5	4742.8	4705.8	4704.0	4698.4	4291.8
37.5°	4670.7	4613.4	4607.8	4574.6	4554.2	4548.7	4513.6	4519.1	4535.8	4565.3	3659.7
40°	4443.3	4391.6	4378.7	4376.8	4332.4	4328.7	4338.0	4373.1	4397.1	4212.3	3487.8
42.5°	4199.4	4203.1	4162.4	4136.5	4142.1	4158.7	4203.1	4081.1	3535.8	3369.5	3188.3
45°	3990.5	3972.0	3949.8	3942.5	3990.5	3957.2	3469.3	3201.3	3136.6	3129.2	2620.9
47.5°	3772.4	3766.9	3757.6	3763.2	3489.6	3110.7	2999.8	2964.7	2975.8	2968.4	2251.2
50°	3552.5	3559.8	3559.8	3108.9	2853.8	2791.0	2800.2	2831.6	2635.7	2460.1	2097.8
52.5°	3362.1	3304.8	2831.6	2669.0	2611.7	2639.4	2572.9	2327.0	2149.6	2046.1	1940.7
55°	3009.1	2587.6	2482.3	2456.4	2476.7	2230.9	2079.4	1920.4	1874.2	1863.1	1802.1
57.5°	2367.7	2282.7	2291.9	2188.4	1953.7	1815.0	1754.0	1731.9	1711.5	1696.8	147.9
60°	2094.1	2118.2	1938.9	1717.1	1622.8	1604.3	1589.5	1569.2	1565.5	1539.6	94.3
62.5°	1916.7	1685.7	1530.4	1475.0	1452.8	1447.2	1419.5	1410.3	1197.7	164.5	70.2
65°	1445.4	1351.1	1321.5	1308.6	1284.6	1284.6	1066.5	168.2	136.8	118.3	62.8
67.5°	1179.2	1171.8	1157.0	1140.4	776.3	162.7	142.3	123.8	107.2	94.3	55.4
70°	998.1	994.4	905.7	166.3	138.6	122.0	107.2	96.1	88.7	79.5	49.9
72.5°	818.8	166.3	140.5	122.0	105.4	96.1	86.9	77.6	70.2	64.7	40.7
75°	127.5	112.7	99.8	90.6	83.2	73.9	66.5	61.0	59.1	51.8	27.7
77.5°	92.4	79.5	72.1	64.7	57.3	51.8	44.4	38.8	35.1	29.6	20.3
80°	64.7	57.3	51.8	42.5	37.0	31.4	27.7	24.0	22.2	18.5	9.2
82.5°	37.0	31.4	27.7	22.2	20.3	16.6	14.8	12.9	12.9	9.2	9.2
85°	16.6	16.6	12.9	11.1	9.2	9.2	9.2	7.4	7.4	5.5	5.5
87.5°	7.4	7.4	7.4	7.4	7.4	5.5	5.5	5.5	5.5	5.5	3.7
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°	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6
2.5°	6350.8	6374.8	6421.0	6469.1	6415.5	6607.7	6592.9	6657.6	6692.7	6709.4	6748.2
5°	6916.4	7023.6	7058.7	6953.4	6892.4	6829.5	6687.2	6580.0	6592.9	6557.8	6430.3
7.5°	6905.3	6676.1	6367.4	6227.0	6215.9	6199.2	6243.6	6269.5	6273.2	6271.3	6267.6
10°	6321.2	6202.9	6182.6	6164.1	6171.5	6103.1	6071.7	5983.0	6031.0	6005.2	6014.4
12.5°	6143.8	6116.1	6007.0	5855.5	5946.0	5877.6	5838.8	5864.7	5835.1	5807.4	5798.2
15°	6038.4	5859.2	5798.2	5761.2	5735.3	5720.5	5733.5	5703.9	5694.7	5689.1	5702.0
17.5°	5820.3	5748.3	5681.7	5583.8	5585.6	5580.1	5617.0	5672.5	5676.2	5391.5	5134.6
20°	5648.4	5589.3	5504.3	5443.3	5526.5	5378.6	4807.5	4535.8	4493.2	4493.2	4500.6
22.5°	5511.7	5380.4	5386.0	5289.9	4511.7	4352.8	4356.5	4373.1	4297.3	4038.6	4010.8
25°	5325.0	5304.7	4899.9	4234.5	4240.0	4116.2	3925.8	3657.8	3367.6	3367.6	3319.6
27.5°	5184.5	4753.9	4162.4	4134.7	3718.8	3456.3	3293.7	3047.9	3014.6	2983.2	2986.9
30°	5064.4	4021.9	4036.7	3456.3	3149.5	2931.4	2918.5	2877.8	2857.5	2851.9	2831.6
32.5°	4003.4	3916.6	3378.7	2942.5	2822.4	2787.3	2770.6	2724.4	2722.6	2687.4	2443.5
35°	3753.9	3437.9	2827.9	2709.6	2674.5	2641.2	2613.5	1754.0	207.0	83.2	72.1
37.5°	3469.3	2872.3	2615.4	2561.8	2528.5	1868.6	186.7	64.7	46.2	33.3	29.6
40°	2940.7	2565.5	2484.1	2425.0	999.9	64.7	40.7	31.4	18.5	16.6	14.8
42.5°	2480.4	2417.6	2330.7	709.8	73.9	31.4	20.3	14.8	12.9	12.9	11.1
45°	2321.5	2266.0	938.9	70.2	46.2	14.8	12.9	12.9	11.1	7.4	7.4
47.5°	2173.6	1913.0	85.0	44.4	29.6	12.9	11.1	7.4	7.4	7.4	5.5
50°	2016.5	105.4	59.1	33.3	18.5	7.4	7.4	7.4	7.4	5.5	5.5
52.5°	377.1	73.9	48.1	29.6	9.2	7.4	7.4	7.4	5.5	5.5	5.5
55°	88.7	59.1	44.4	25.9	7.4	7.4	7.4	5.5	5.5	5.5	3.7
57.5°	66.5	44.4	35.1	24.0	7.4	5.5	5.5	5.5	5.5	5.5	3.7
60°	55.4	31.4	27.7	22.2	5.5	5.5	5.5	5.5	5.5	5.5	3.7
62.5°	38.8	25.9	20.3	16.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5
65°	31.4	20.3	16.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
67.5°	27.7	16.6	11.1	3.7	5.5	5.5	5.5	5.5	5.5	5.5	5.5
70°	22.2	5.5	5.5	3.7	5.5	5.5	5.5	5.5	5.5	5.5	5.5
72.5°	18.5	5.5	3.7	3.7	5.5	5.5	5.5	5.5	5.5	5.5	5.5
75°	18.5	9.2	3.7	3.7	5.5	5.5	7.4	7.4	5.5	5.5	5.5
77.5°	12.9	9.2	3.7	3.7	5.5	5.5	7.4	7.4	5.5	5.5	5.5
80°	7.4	9.2	3.7	5.5	5.5	11.1	12.9	7.4	5.5	5.5	5.5
82.5°	7.4	9.2	11.1	11.1	5.5	9.2	11.1	9.2	7.4	5.5	5.5
85°	7.4	5.5	7.4	9.2	5.5	9.2	9.2	7.4	7.4	5.5	5.5
87.5°	3.7	5.5	5.5	7.4	7.4	7.4	9.2	7.4	7.4	7.4	5.5
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-LD5-130HL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6
2.5°	6766.7	6774.1	6657.6	6617.0	6652.1	6644.7	6613.3	6496.8	6483.9	6406.3	6293.5
5°	6467.2	6517.2	6456.2	6561.5	6511.6	6561.5	6713.1	6783.3	6897.9	6968.1	6994.0
7.5°	6258.4	6269.5	6269.5	6278.7	6288.0	6289.8	6278.7	6271.3	6239.9	6201.1	6271.3
10°	6005.2	6018.1	6040.3	6036.6	6034.7	6073.6	6082.8	6162.3	6158.6	6173.4	6227.0
12.5°	5873.9	5774.1	5864.7	5840.7	5873.9	5822.2	5918.3	5901.7	5907.2	5951.6	6066.2
15°	5655.8	5687.3	5709.4	5709.4	5722.4	5711.3	5700.2	5776.0	5822.2	5824.0	5816.6
17.5°	5236.3	4997.8	5241.8	5179.0	5679.9	5692.8	5650.3	5615.2	5615.2	5642.9	5702.0
20°	4495.1	4500.6	4502.5	4526.5	4556.1	4554.2	4556.1	5284.3	5630.0	5550.5	5496.9
22.5°	3940.6	3872.2	3999.7	3990.5	4149.5	4325.1	4493.2	4476.6	4487.7	5001.5	5463.6
25°	3158.8	3247.5	3175.4	3206.8	3386.1	3595.0	3724.3	4062.6	4430.4	4404.5	4524.7
27.5°	2973.9	2949.9	2983.2	2983.2	3007.2	3034.9	3107.0	3297.4	3624.5	3968.3	4293.6
30°	2798.3	2818.7	2822.4	2855.6	2874.1	2892.6	2903.7	2975.8	3049.7	3288.1	3689.2
32.5°	2101.5	1842.8	2425.0	2582.1	2715.2	2746.6	2768.8	2798.3	2851.9	2887.1	3088.5
35°	61.0	61.0	64.7	73.9	94.3	635.8	2421.3	2669.0	2704.1	2748.4	2785.4
37.5°	29.6	22.2	25.9	27.7	33.3	46.2	66.5	207.0	2304.8	2606.1	2646.8
40°	12.9	12.9	12.9	12.9	14.8	18.5	27.7	46.2	70.2	1853.9	2500.8
42.5°	11.1	11.1	11.1	11.1	11.1	11.1	12.9	16.6	33.3	79.5	1312.3
45°	7.4	7.4	5.5	7.4	7.4	9.2	11.1	11.1	14.8	49.9	90.6
47.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	9.2	11.1	33.3	48.1
50°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	25.9	33.3
52.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	11.1	29.6
55°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.5	5.5	7.4	25.9
57.5°	3.7	3.7	3.7	3.7	3.7	5.5	3.7	3.7	5.5	5.5	24.0
60°	3.7	3.7	3.7	3.7	3.7	5.5	5.5	5.5	5.5	5.5	22.2
62.5°	5.5	5.5	3.7	5.5	3.7	3.7	5.5	5.5	5.5	5.5	14.8
65°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	3.7	5.5
67.5°	5.5	5.5	5.5	5.5	3.7	5.5	3.7	5.5	5.5	3.7	3.7
70°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	3.7	3.7	3.7	3.7
72.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	3.7	3.7	3.7	3.7
75°	5.5	5.5	5.5	5.5	5.5	5.5	7.4	7.4	3.7	3.7	3.7
77.5°	5.5	5.5	5.5	5.5	5.5	5.5	9.2	11.1	9.2	9.2	3.7
80°	5.5	5.5	5.5	5.5	5.5	5.5	9.2	9.2	9.2	9.2	12.9
82.5°	5.5	5.5	5.5	5.5	5.5	5.5	7.4	7.4	7.4	7.4	9.2
85°	5.5	5.5	5.5	5.5	5.5	5.5	7.4	7.4	7.4	5.5	7.4
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.4	5.5	5.5	5.5
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-LD5-130HL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6
2.5°	6302.7	6239.9	6219.6	6177.1	6173.4	6177.1	6167.8	6154.9	6162.3	6149.3	6138.2
5°	7008.8	6840.6	6731.6	6585.5	6384.1	6339.7	6328.6	6265.8	6243.6	6236.2	6206.6
7.5°	6437.7	6744.5	6929.3	6992.2	6755.6	6700.1	6635.4	6583.7	6533.8	6439.5	6382.2
10°	6184.5	6199.2	6376.7	6583.7	6920.1	6966.3	7001.4	6888.7	6857.2	6617.0	6565.2
12.5°	6125.3	6127.2	6147.5	6273.2	6537.5	6567.1	6690.9	6757.4	6838.8	6885.0	6848.0
15°	5855.5	6005.2	6116.1	6127.2	6151.2	6202.9	6239.9	6470.9	6568.9	6831.4	6816.6
17.5°	5729.8	5777.8	5938.6	6069.9	6047.7	6029.2	6058.8	6090.2	6184.5	6446.9	6443.2
20°	5520.9	5674.3	5761.2	5898.0	6021.8	6027.3	5994.1	5975.6	5938.6	5981.1	6020.0
22.5°	5432.2	5456.2	5618.9	5715.0	5855.5	5905.4	5912.8	5914.6	5894.3	5872.1	5861.0
25°	5422.9	5347.2	5430.3	5550.5	5654.0	5707.6	5768.6	5788.9	5781.5	5781.5	5770.4
27.5°	4437.8	5323.1	5278.8	5358.3	5483.9	5520.9	5552.3	5615.2	5654.0	5681.7	5694.7
30°	4227.1	4386.0	5160.5	5171.6	5299.1	5295.4	5330.5	5382.3	5432.2	5496.9	5513.5
32.5°	3739.1	4129.1	4724.3	4984.9	5118.0	5130.9	5149.4	5164.2	5210.4	5282.5	5345.3
35°	2996.1	3761.3	4047.8	4896.2	4920.2	4946.1	4957.2	4992.3	5007.1	5036.7	5092.1
37.5°	2711.5	3108.9	3883.3	4234.5	4692.9	4715.0	4774.2	4789.0	4813.0	4837.0	4879.5
40°	2547.0	2656.0	3232.7	3781.6	4509.9	4524.7	4545.0	4582.0	4583.8	4611.5	4650.4
42.5°	2415.7	2486.0	2654.2	3611.6	4380.5	4378.7	4330.6	4354.6	4365.7	4395.3	4448.9
45°	1929.6	2332.6	2439.8	2949.9	3487.8	3739.1	4221.5	4142.1	4140.2	4151.3	4208.6
47.5°	98.0	2193.9	2269.7	2434.2	3293.7	3302.9	3365.8	3894.4	3975.7	3949.8	3955.4
50°	66.5	151.6	2114.5	2190.3	2839.0	3068.2	3114.4	3138.4	3443.4	3783.5	3728.0
52.5°	51.8	86.9	1295.7	2033.1	2306.7	2474.9	2772.5	2942.5	2961.0	3097.8	3561.7
55°	46.2	66.5	140.5	1876.0	1961.1	1998.0	2171.8	2469.3	2709.6	2781.7	2787.3
57.5°	40.7	61.0	96.1	848.4	1783.6	1791.0	1820.6	1924.1	2140.3	2338.1	2561.8
60°	37.0	53.6	75.8	146.0	1621.0	1639.5	1645.0	1672.7	1698.6	1833.5	2090.4
62.5°	22.2	42.5	66.5	105.4	1282.7	1473.1	1471.3	1489.7	1513.8	1528.6	1580.3
65°	18.5	33.3	57.3	88.7	157.1	195.9	1190.3	1323.4	1338.2	1358.5	1367.8
67.5°	16.6	29.6	42.5	70.2	118.3	134.9	155.3	192.2	1049.8	1182.9	1201.4
70°	14.8	20.3	35.1	59.1	96.1	103.5	116.4	133.1	157.1	194.1	950.0
72.5°	9.2	14.8	24.0	42.5	73.9	83.2	90.6	101.7	112.7	134.9	155.3
75°	3.7	11.1	20.3	31.4	57.3	62.8	68.4	75.8	85.0	99.8	110.9
77.5°	3.7	9.2	16.6	22.2	37.0	42.5	49.9	55.4	62.8	70.2	81.3
80°	12.9	7.4	11.1	16.6	25.9	27.7	31.4	35.1	40.7	46.2	53.6
82.5°	9.2	11.1	12.9	11.1	12.9	16.6	18.5	22.2	24.0	27.7	29.6
85°	7.4	7.4	9.2	9.2	9.2	9.2	9.2	9.2	11.1	12.9	16.6
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.4	7.4
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-LD5-130HL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6
2.5°	6138.2	6134.5	6123.5	6123.5	6121.6	6129.0	6134.5	6140.1	6138.2	6149.3	6138.2
5°	6184.5	6175.2	6158.6	6143.8	6138.2	6141.9	6136.4	6141.9	6134.5	6143.8	6127.2
7.5°	6312.0	6280.6	6215.9	6190.0	6156.7	6154.9	6138.2	6134.5	6123.5	6123.5	6103.1
10°	6537.5	6385.9	6367.4	6289.8	6262.1	6127.2	6156.7	6106.8	6101.3	6077.3	6068.0
12.5°	6722.3	6604.0	6568.9	6500.5	6422.9	6149.3	6210.3	6103.1	6097.6	6049.5	5999.6
15°	6726.0	6794.4	6698.3	6509.8	6493.1	6304.6	6180.8	6143.8	6095.7	5951.6	5975.6
17.5°	6509.8	6666.9	6713.1	6672.4	6554.1	6426.6	6252.8	6178.9	6034.7	5970.0	5925.7
20°	6158.6	6317.5	6515.3	6528.2	6602.2	6511.6	6284.3	6164.1	5990.4	5877.6	5840.7
22.5°	5879.5	5995.9	6223.3	6328.6	6419.2	6450.6	6306.4	6129.0	5912.8	5803.7	5781.5
25°	5731.6	5757.5	5825.9	5949.7	6149.3	6293.5	6313.8	6125.3	6012.6	5774.1	5648.4
27.5°	5678.0	5655.8	5628.1	5691.0	5840.7	6016.3	6132.7	6164.1	5883.2	5655.8	5530.2
30°	5541.2	5554.2	5511.7	5489.5	5587.4	5768.6	5975.6	6027.3	5811.1	5576.4	5432.2
32.5°	5373.0	5395.2	5402.6	5363.8	5343.5	5469.2	5692.8	5816.6	5805.5	5463.6	5302.8
35°	5162.3	5225.2	5241.8	5243.7	5210.4	5190.1	5319.4	5576.4	5674.3	5411.9	5179.0
37.5°	4940.5	4959.0	5049.6	5073.6	5073.6	5012.6	5108.7	5313.9	5450.7	5295.4	5027.4
40°	4663.3	4722.4	4807.5	4850.0	4892.5	4898.0	4844.4	4988.6	5214.1	5175.3	4885.1
42.5°	4461.8	4500.6	4552.4	4609.7	4696.6	4718.7	4663.3	4689.2	4923.9	5025.6	4700.3
45°	4227.1	4278.8	4293.6	4356.5	4447.0	4511.7	4509.9	4456.3	4644.8	4770.5	4565.3
47.5°	3986.8	4036.7	4062.6	4094.0	4160.6	4243.7	4289.9	4265.9	4302.9	4548.7	4386.0
50°	3739.1	3766.9	3818.6	3853.7	3898.1	3946.1	4057.0	4079.2	4027.5	4223.4	4188.3
52.5°	3504.4	3513.6	3548.8	3583.9	3643.0	3678.1	3766.9	3833.4	3829.7	3887.0	3968.3
55°	3321.4	3280.8	3288.1	3315.9	3354.7	3408.3	3458.2	3561.7	3596.8	3607.9	3737.3
57.5°	2595.0	3012.7	3049.7	3047.9	3094.1	3118.1	3164.3	3232.7	3358.4	3330.7	3474.8
60°	2358.4	2404.7	2754.0	2794.6	2811.3	2833.5	2888.9	2951.8	3044.2	3103.3	3166.2
62.5°	1798.4	2079.4	2184.7	2493.4	2541.4	2554.4	2591.3	2620.9	2717.0	2851.9	2826.1
65°	1391.8	1511.9	1833.5	1959.2	2221.7	2254.9	2306.7	2338.1	2365.8	2521.1	2528.5
67.5°	1203.3	1221.7	1308.6	1550.7	1717.1	1974.0	2005.4	2033.1	2075.7	2186.6	2254.9
70°	1027.7	1049.8	1073.9	1094.2	1310.5	1480.5	1718.9	1728.2	1755.9	1829.8	1985.1
72.5°	194.1	877.9	892.7	905.7	929.7	1042.4	1269.8	1454.6	1465.7	1500.8	1643.1
75°	131.2	153.4	210.7	724.5	748.6	756.0	794.8	1025.8	1195.9	1203.3	1266.1
77.5°	94.3	105.4	127.5	151.6	386.3	580.4	589.6	632.1	807.7	935.2	946.3
80°	64.7	72.1	85.0	96.1	118.3	155.3	428.8	441.7	463.9	639.5	672.8
82.5°	37.0	42.5	49.9	61.0	70.2	88.7	114.6	147.9	301.3	321.6	427.0
85°	18.5	20.3	24.0	29.6	35.1	42.5	57.3	70.2	96.1	173.7	179.3
87.5°	9.2	9.2	9.2	9.2	14.8	16.6	20.3	25.9	33.3	49.9	64.7
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-LD5-130HL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6
2.5°	6140.1	6166.0	6188.2	6193.7	6193.7	6197.4	6202.9	6206.6	6210.3	6214.0	6210.3
5°	6129.0	6156.7	6175.2	6180.8	6180.8	6191.8	6201.1	6212.2	6217.7	6217.7	6214.0
7.5°	6101.3	6121.6	6145.6	6160.4	6162.3	6180.8	6197.4	6195.5	6202.9	6206.6	6215.9
10°	6064.3	6064.3	6105.0	6116.1	6125.3	6145.6	6151.2	6162.3	6188.2	6191.8	6215.9
12.5°	6045.8	6027.3	6075.4	6080.9	6112.4	6086.5	6119.8	6130.9	6105.0	6140.1	6093.9
15°	5962.7	5984.8	5977.4	5994.1	6049.5	6020.0	6110.5	6080.9	6147.5	6068.0	6208.5
17.5°	5894.3	5890.6	5920.1	5934.9	5946.0	6008.9	6032.9	6066.2	6092.0	6069.9	6125.3
20°	5844.4	5814.8	5837.0	5853.6	5892.4	5940.5	5955.3	5905.4	5992.2	6140.1	6175.2
22.5°	5750.1	5729.8	5755.6	5755.6	5814.8	5807.4	5862.8	5831.4	5912.8	6084.6	6263.9
25°	5622.6	5624.4	5652.1	5685.4	5696.5	5779.7	5809.2	5849.9	5951.6	6156.7	6265.8
27.5°	5493.2	5482.1	5498.7	5567.1	5624.4	5685.4	5694.7	5833.3	5971.9	6112.4	6208.5
30°	5363.8	5352.7	5363.8	5413.7	5482.1	5522.8	5624.4	5809.2	5938.6	6034.7	6125.3
32.5°	5225.2	5214.1	5240.0	5276.9	5397.1	5402.6	5604.1	5777.8	5879.5	5949.7	5933.1
35°	5077.3	5062.5	5086.6	5143.9	5254.8	5295.4	5506.1	5635.5	5750.1	5783.4	5705.7
37.5°	4899.9	4874.0	4903.6	4983.1	5099.5	5217.8	5393.4	5543.1	5604.1	5515.4	5422.9
40°	4715.0	4696.6	4748.3	4789.0	4925.8	5090.3	5291.7	5397.1	5358.3	5256.6	5154.9
42.5°	4550.5	4511.7	4557.9	4635.6	4790.8	4977.5	5140.2	5199.3	5106.9	4957.2	4838.9
45°	4349.1	4302.9	4358.3	4461.8	4628.2	4840.7	4968.3	4947.9	4790.8	4661.4	4498.8
47.5°	4138.4	4082.9	4138.4	4262.2	4448.9	4674.4	4766.8	4674.4	4476.6	4314.0	4182.7
50°	3931.4	3866.7	3920.3	4107.0	4289.9	4463.7	4461.8	4282.5	4164.2	3986.8	3872.2
52.5°	3726.2	3633.8	3687.4	3890.7	4073.7	4271.5	4125.4	3959.1	3816.8	3661.5	3624.5
55°	3473.0	3373.2	3445.3	3741.0	3881.5	3997.9	3765.0	3619.0	3478.5	3400.9	3354.7
57.5°	3232.7	3123.6	3186.5	3535.8	3639.3	3668.9	3454.5	3247.5	3164.3	3138.4	3071.9
60°	2985.0	2861.2	2920.3	3323.3	3395.4	3275.2	3064.5	2903.7	2887.1	2835.3	2783.6
62.5°	2748.4	2611.7	2648.6	3059.0	3092.2	2874.1	2680.1	2637.5	2596.9	2545.1	2517.4
65°	2476.7	2334.4	2386.2	2778.0	2746.6	2465.6	2356.6	2347.4	2293.8	2251.2	2291.9
67.5°	2227.2	2059.0	2131.1	2471.2	2328.9	2099.7	2055.3	2033.1	1990.6	2014.7	1587.7
70°	1953.7	1770.7	1868.6	2140.3	1929.6	1778.1	1761.4	1728.2	1730.0	1375.1	1158.9
72.5°	1648.7	1489.7	1632.1	1778.1	1526.7	1482.3	1458.3	1454.6	1173.7	953.7	900.1
75°	1380.7	1219.9	1373.3	1428.7	1216.2	1186.6	1184.8	979.6	770.7	735.6	719.0
77.5°	1077.6	953.7	1099.7	1016.6	933.4	900.1	807.7	606.2	580.4	556.3	208.9
80°	726.4	735.6	820.7	700.5	665.4	567.4	447.3	428.8	369.7	147.9	116.4
82.5°	441.7	554.5	523.1	438.1	428.8	308.7	282.8	144.2	107.2	85.0	73.9
85°	229.2	280.9	269.9	238.4	177.4	159.0	88.7	68.4	55.4	42.5	35.1
87.5°	77.6	103.5	99.8	79.5	61.0	48.1	31.4	25.9	18.5	14.8	12.9
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-LD5-130HL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6
2.5°	6206.6	6206.6	6202.9	6206.6	6208.5	6204.8	6204.8	6208.5	6210.3	6212.2	6221.4
5°	6215.9	6219.6	6225.1	6236.2	6238.1	6260.2	6269.5	6275.0	6280.6	6282.4	6269.5
7.5°	6236.2	6249.1	6260.2	6258.4	6245.4	6210.3	6199.2	6190.0	6206.6	6249.1	6299.0
10°	6254.7	6195.5	6084.6	6236.2	6190.0	6232.5	6358.2	6385.9	6470.9	6591.1	6626.2
12.5°	6127.2	6289.8	6324.9	6154.9	6469.1	6352.7	6491.3	6613.3	6648.4	6770.4	6696.4
15°	6263.9	6343.4	6397.0	6567.1	6548.6	6648.4	6687.2	6663.2	6668.7	6700.1	6783.3
17.5°	6262.1	6421.0	6456.2	6570.8	6648.4	6650.2	6639.1	6628.0	6657.6	6681.6	6631.7
20°	6369.3	6421.0	6489.4	6535.6	6550.4	6568.9	6604.0	6576.3	6520.8	6467.2	6445.1
22.5°	6315.7	6432.1	6491.3	6498.7	6489.4	6432.1	6380.4	6302.7	6276.9	6249.1	6258.4
25°	6326.8	6380.4	6373.0	6343.4	6304.6	6197.4	6171.5	6138.2	6088.3	5968.2	5859.2
27.5°	6247.3	6219.6	6186.3	6114.2	6044.0	5986.7	5922.0	5814.8	5726.1	5596.7	5548.6
30°	6114.2	6003.3	5922.0	5879.5	5811.1	5715.0	5617.0	5485.8	5373.0	5347.2	5323.1
32.5°	5859.2	5750.1	5683.6	5580.1	5463.6	5349.0	5236.3	5184.5	5160.5	5164.2	5142.0
35°	5598.5	5502.4	5402.6	5247.4	5160.5	5045.9	5005.2	4994.1	4972.0	4947.9	4922.1
37.5°	5321.3	5208.5	5058.8	4966.4	4879.5	4833.3	4813.0	4796.4	4757.6	4715.0	4685.5
40°	5053.3	4850.0	4766.8	4676.2	4650.4	4630.0	4600.4	4559.8	4506.2	4498.8	4485.9
42.5°	4694.7	4548.7	4476.6	4458.1	4426.7	4391.6	4365.7	4321.4	4299.2	4314.0	4325.1
45°	4354.6	4280.7	4256.7	4234.5	4175.3	4125.4	4108.8	4094.0	4112.5	4193.8	3999.7
47.5°	4079.2	4049.7	4020.1	3983.1	3927.7	3890.7	3907.3	3922.1	3938.8	3341.7	3049.7
50°	3840.8	3800.1	3753.9	3713.3	3680.0	3676.3	3763.2	3502.6	2933.3	2918.5	2622.8
52.5°	3580.2	3519.2	3491.5	3467.4	3482.2	3537.7	2927.7	2717.0	2606.1	2264.2	2112.6
55°	3299.2	3245.6	3245.6	3267.8	3188.3	2583.9	2552.5	2206.9	1998.0	1938.9	1914.9
57.5°	3018.3	3012.7	3044.2	2783.6	2345.5	2249.4	1890.8	1815.0	1781.8	1774.4	1735.6
60°	2761.4	2813.1	2354.8	2166.2	1883.4	1698.6	1646.8	1637.6	1602.5	1589.5	1554.4
62.5°	2556.2	2120.0	1974.0	1611.7	1517.5	1493.4	1465.7	1452.8	1421.4	1255.0	367.8
65°	1846.5	1744.8	1415.8	1354.8	1347.4	1312.3	1301.2	1170.0	275.4	184.8	157.1
67.5°	1393.6	1236.5	1194.0	1182.9	1147.8	1077.6	319.8	183.0	157.1	136.8	120.1
70°	1070.2	1042.4	1011.0	985.2	290.2	181.1	157.1	133.1	114.6	101.7	92.4
72.5°	876.1	857.6	499.0	190.4	155.3	131.2	116.4	101.7	88.7	81.3	73.9
75°	685.7	190.4	157.1	131.2	112.7	96.1	85.0	75.8	68.4	62.8	57.3
77.5°	155.3	125.7	107.2	90.6	81.3	72.1	64.7	55.4	49.9	44.4	37.0
80°	96.1	83.2	70.2	64.7	55.4	46.2	40.7	37.0	29.6	27.7	24.0
82.5°	62.8	49.9	44.4	37.0	29.6	27.7	24.0	18.5	16.6	14.8	12.9
85°	27.7	24.0	20.3	16.6	12.9	11.1	9.2	7.4	7.4	7.4	7.4
87.5°	9.2	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	3.7	3.7
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-LD5-130HL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6
2.5°	6225.1	6258.4	6289.8	6280.6	6247.3	6195.5	6180.8	6160.4	6175.2	6206.6	6219.6
5°	6269.5	6251.0	6317.5	6415.5	6574.4	6589.2	6700.1	6726.0	6814.7	6870.2	6868.3
7.5°	6332.3	6594.8	6703.8	6822.1	6875.7	6862.8	6879.4	6866.5	6846.1	6836.9	6825.8
10°	6652.1	6851.7	6892.4	6892.4	6809.2	6696.4	6648.4	6565.2	6398.9	6402.6	6374.8
12.5°	6838.8	6909.0	6812.9	6731.6	6397.0	6267.6	6127.2	6060.6	6021.8	5962.7	5984.8
15°	6740.8	6641.0	6583.7	6321.2	6116.1	5883.2	5886.9	5846.2	5803.7	5807.4	5779.7
17.5°	6596.6	6517.2	6110.5	5929.4	5829.6	5739.0	5722.4	5668.8	5641.0	5631.8	5630.0
20°	6398.9	6112.4	5809.2	5764.9	5644.7	5541.2	5524.6	5541.2	5626.3	5474.7	4960.9
22.5°	6167.8	5755.6	5666.9	5541.2	5459.9	5419.3	5520.9	5058.8	4360.2	4445.2	4354.6
25°	5776.0	5596.7	5445.1	5349.0	5339.8	5090.3	4241.9	4153.2	3704.0	3463.7	3193.9
27.5°	5489.5	5411.9	5252.9	5236.3	5116.1	4162.4	3720.7	3232.7	3053.4	3025.7	2966.5
30°	5315.7	5204.8	5108.7	4689.2	4082.9	3351.0	2985.0	2916.6	2885.2	2851.9	2800.2
32.5°	5106.9	5001.5	5047.7	3942.5	3254.9	2885.2	2811.3	2761.4	2704.1	2681.9	2495.2
35°	4894.3	4846.3	3944.3	3314.0	2798.3	2709.6	2654.2	2602.4	2070.1	500.9	170.0
37.5°	4667.0	4655.9	3545.1	2750.3	2620.9	2537.7	2380.6	491.7	116.4	79.5	59.1
40°	4489.6	3546.9	2802.0	2578.4	2473.0	2341.8	329.0	81.3	51.8	31.4	20.3
42.5°	4371.3	3190.2	2508.2	2419.4	2190.3	242.1	83.2	35.1	20.3	16.6	12.9
45°	3369.5	2519.3	2343.7	2251.2	277.2	83.2	48.1	16.6	12.9	11.1	7.4
47.5°	3108.9	2288.2	2184.7	491.7	92.4	44.4	33.3	11.1	7.4	7.4	7.4
50°	2354.8	2114.5	1739.3	120.1	59.1	31.4	24.0	7.4	7.4	7.4	5.5
52.5°	2064.6	1951.8	186.7	79.5	46.2	24.0	14.8	5.5	5.5	5.5	5.5
55°	1887.1	1238.4	110.9	61.0	38.8	22.2	9.2	5.5	5.5	5.5	3.7
57.5°	1726.3	166.3	81.3	51.8	35.1	20.3	5.5	5.5	5.5	5.5	3.7
60°	1463.9	120.1	66.5	46.2	33.3	18.5	5.5	5.5	5.5	5.5	5.5
62.5°	190.4	94.3	57.3	40.7	24.0	14.8	3.7	5.5	5.5	5.5	5.5
65°	138.6	73.9	51.8	27.7	14.8	5.5	3.7	5.5	5.5	5.5	5.5
67.5°	107.2	61.0	38.8	24.0	12.9	3.7	3.7	5.5	5.5	5.5	5.5
70°	85.0	51.8	31.4	20.3	11.1	3.7	3.7	5.5	5.5	5.5	5.5
72.5°	66.5	37.0	22.2	11.1	7.4	3.7	3.7	5.5	5.5	5.5	5.5
75°	49.9	29.6	16.6	9.2	3.7	3.7	3.7	5.5	5.5	5.5	5.5
77.5°	33.3	18.5	12.9	7.4	7.4	7.4	9.2	9.2	5.5	5.5	5.5
80°	22.2	12.9	9.2	9.2	9.2	7.4	9.2	9.2	5.5	9.2	5.5
82.5°	11.1	9.2	9.2	7.4	7.4	5.5	7.4	7.4	7.4	7.4	5.5
85°	7.4	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.4	7.4	5.5
87.5°	3.7	3.7	3.7	3.7	5.5	5.5	5.5	5.5	7.4	7.4	5.5
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-LD5-130HL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6
2.5°	6202.9	6208.5	6193.7	6273.2	6232.5	6236.2	6252.8	6210.3	6219.6	6190.0	6169.7
5°	6875.7	6886.8	6897.9	6901.6	6909.0	6918.2	6907.1	6901.6	6890.5	6853.5	6814.7
7.5°	6770.4	6757.4	6751.9	6759.3	6772.2	6777.8	6768.5	6781.5	6829.5	6849.8	6862.8
10°	6215.9	6156.7	6197.4	6191.8	6145.6	6300.9	6258.4	6282.4	6299.0	6469.1	6572.6
12.5°	5951.6	5988.5	5918.3	5883.2	5929.4	5960.8	5992.2	5925.7	6018.1	5975.6	6112.4
15°	5729.8	5707.6	5700.2	5702.0	5692.8	5737.2	5748.3	5763.0	5776.0	5833.3	5855.5
17.5°	5630.0	5666.9	5681.7	5692.8	5674.3	5654.0	5633.7	5604.1	5613.3	5598.5	5641.0
20°	4615.2	4491.4	4484.0	4556.1	4476.6	4521.0	4628.2	5345.3	5321.3	5600.4	5506.1
22.5°	3851.9	3735.4	3635.6	3548.8	3672.6	3724.3	3924.0	4149.5	4515.4	4458.1	4855.5
25°	3145.8	3103.3	3077.4	3064.5	3073.7	3070.0	3114.4	3219.8	3386.1	3778.0	4284.4
27.5°	2942.5	2922.2	2912.9	2883.4	2905.5	2898.2	2933.3	2955.5	3005.4	3044.2	3208.7
30°	2781.7	2757.7	2741.0	2709.6	2731.8	2733.7	2744.7	2802.0	2822.4	2855.6	2907.4
32.5°	1016.6	598.9	561.9	534.2	584.1	761.5	1336.3	2336.3	2665.3	2691.1	2750.3
35°	99.8	83.2	73.9	73.9	75.8	83.2	110.9	292.0	534.2	2064.6	2583.9
37.5°	38.8	33.3	27.7	25.9	27.7	31.4	42.5	55.4	75.8	157.1	700.5
40°	16.6	14.8	12.9	12.9	12.9	12.9	14.8	18.5	27.7	51.8	81.3
42.5°	11.1	9.2	9.2	9.2	9.2	9.2	9.2	9.2	12.9	16.6	33.3
45°	7.4	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.4	9.2	14.8
47.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.4
50°	5.5	5.5	5.5	5.5	3.7	5.5	3.7	5.5	5.5	5.5	5.5
52.5°	5.5	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.5	5.5
55°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.5
57.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
60°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
62.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.5	5.5	3.7
65°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.5	3.7
67.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
70°	5.5	5.5	3.7	5.5	3.7	3.7	5.5	5.5	5.5	3.7	3.7
72.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	11.1	11.1	7.4
75°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	9.2	11.1	9.2
77.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	9.2	9.2	9.2
80°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.4	7.4	7.4
82.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.4	7.4	7.4
85°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
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-LD5-130HL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6
2.5°	6134.5	6132.7	6171.5	6201.1	6190.0	6201.1	6214.0	6215.9	6219.6	6204.8	6199.2
5°	6740.8	6683.5	6572.6	6493.1	6400.7	6232.5	6149.3	6158.6	6160.4	6154.9	6162.3
7.5°	6857.2	6851.7	6812.9	6796.2	6733.4	6613.3	6421.0	6387.8	6306.4	6254.7	6212.2
10°	6565.2	6698.3	6733.4	6792.5	6829.5	6807.3	6644.7	6620.7	6568.9	6509.8	6522.7
12.5°	6249.1	6358.2	6363.7	6685.3	6757.4	6764.8	6702.0	6735.3	6742.6	6609.6	6531.9
15°	5861.0	5912.8	6021.8	6321.2	6539.3	6676.1	6716.8	6735.3	6644.7	6639.1	6607.7
17.5°	5691.0	5724.2	5774.1	5942.3	6273.2	6474.6	6646.5	6633.6	6668.7	6642.8	6563.4
20°	5476.6	5504.3	5593.0	5678.0	5840.7	6108.7	6430.3	6454.3	6500.5	6495.0	6517.2
22.5°	5472.9	5374.9	5389.7	5456.2	5626.3	5866.5	6208.5	6288.0	6317.5	6337.9	6361.9
25°	4341.7	5119.8	5262.1	5304.7	5415.6	5556.0	5959.0	5988.5	6044.0	6134.5	6201.1
27.5°	3761.3	4289.9	4859.2	5154.9	5225.2	5341.6	5581.9	5626.3	5814.8	5837.0	5940.5
30°	2968.4	3376.9	4227.1	4938.7	5055.1	5136.5	5306.5	5395.2	5476.6	5565.3	5674.3
32.5°	2792.8	2857.5	3328.8	4086.6	4992.3	4931.3	5057.0	5110.6	5199.3	5276.9	5356.4
35°	2632.0	2676.4	2776.2	3347.3	4066.3	4763.1	4848.1	4883.2	4933.1	4992.3	5049.6
37.5°	2463.8	2530.3	2598.7	2752.1	3761.3	4630.0	4628.2	4668.8	4698.4	4748.3	4796.4
40°	447.3	2323.3	2434.2	2534.0	2916.6	3692.9	4421.2	4439.6	4460.0	4491.4	4541.3
42.5°	72.1	388.1	2280.8	2376.9	2486.0	3306.6	4326.9	4251.1	4238.2	4260.4	4304.7
45°	37.0	94.3	458.4	2219.8	2317.8	2637.5	3537.7	4119.9	4107.0	4064.4	4073.7
47.5°	27.7	59.1	112.7	767.0	2169.9	2264.2	3264.1	3229.0	3474.8	3946.1	3874.1
50°	24.0	40.7	66.5	157.1	1916.7	2084.9	2513.7	2937.0	3066.4	3083.0	3648.6
52.5°	22.2	27.7	48.1	101.7	402.9	1927.8	2044.2	2192.1	2410.2	2877.8	2866.7
55°	20.3	25.9	40.7	68.4	140.5	1737.4	1857.6	1885.3	1931.5	2155.1	2450.9
57.5°	11.1	24.0	38.8	59.1	105.4	317.9	1685.7	1707.8	1744.8	1754.0	1859.4
60°	5.5	22.2	35.1	51.8	77.6	147.9	1515.6	1541.5	1563.7	1567.4	1600.6
62.5°	3.7	20.3	29.6	48.1	64.7	105.4	358.6	731.9	1391.8	1391.8	1430.6
65°	3.7	14.8	18.5	31.4	59.1	86.9	151.6	175.6	341.9	841.0	1255.0
67.5°	3.7	5.5	16.6	25.9	44.4	66.5	110.9	129.4	155.3	177.4	329.0
70°	3.7	3.7	14.8	16.6	27.7	49.9	79.5	90.6	105.4	120.1	138.6
72.5°	3.7	3.7	12.9	12.9	18.5	33.3	61.0	66.5	75.8	85.0	98.0
75°	9.2	7.4	11.1	11.1	12.9	25.9	46.2	51.8	55.4	62.8	72.1
77.5°	9.2	9.2	9.2	9.2	9.2	16.6	29.6	33.3	38.8	42.5	49.9
80°	7.4	7.4	7.4	9.2	9.2	11.1	18.5	20.3	22.2	27.7	29.6
82.5°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	11.1	12.9	16.6
85°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.4	7.4	7.4	7.4
87.5°	5.5	5.5	5.5	3.7	3.7	5.5	5.5	5.5	5.5	5.5	5.5
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-LD5-130HL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6	6158.6
2.5°	6197.4	6186.3	6177.1	6182.6	6166.0	6158.6	6164.1	6166.0	6169.7	6178.9	6180.8
5°	6180.8	6177.1	6193.7	6202.9	6199.2	6202.9	6202.9	6195.5	6184.5	6191.8	6175.2
7.5°	6169.7	6145.6	6127.2	6130.9	6112.4	6134.5	6154.9	6184.5	6193.7	6193.7	6175.2
10°	6360.0	6334.2	6230.7	6160.4	6114.2	6073.6	6169.7	6071.7	6117.9	5942.3	6143.8
12.5°	6517.2	6552.3	6506.1	6313.8	6280.6	6158.6	6228.8	6108.7	6073.6	5872.1	5936.8
15°	6580.0	6513.5	6498.7	6445.1	6373.0	6337.9	6149.3	6129.0	6071.7	6093.9	6008.9
17.5°	6524.5	6557.8	6513.5	6478.3	6404.4	6321.2	6208.5	6108.7	6029.2	5851.8	6001.5
20°	6470.9	6515.3	6382.2	6404.4	6411.8	6315.7	6256.5	6173.4	6073.6	5907.2	5777.8
22.5°	6382.2	6350.8	6361.9	6328.6	6300.9	6313.8	6232.5	6175.2	6007.0	5931.2	5755.6
25°	6238.1	6227.0	6256.5	6252.8	6186.3	6164.1	6123.5	6062.5	5995.9	5873.9	5729.8
27.5°	6003.3	6060.6	6112.4	6136.4	6101.3	6042.1	6020.0	5984.8	5938.6	5814.8	5707.6
30°	5755.6	5820.3	5879.5	5931.2	5962.7	5936.8	5916.4	5896.1	5825.9	5744.6	5624.4
32.5°	5472.9	5557.9	5639.2	5702.0	5770.4	5790.8	5776.0	5759.3	5700.2	5626.3	5530.2
35°	5145.7	5262.1	5380.4	5493.2	5522.8	5570.8	5618.9	5591.1	5559.7	5485.8	5397.1
37.5°	4868.5	4951.6	5036.7	5179.0	5282.5	5343.5	5428.5	5439.6	5386.0	5350.9	5234.4
40°	4582.0	4657.7	4781.6	4864.8	5007.1	5077.3	5167.9	5208.5	5195.6	5175.3	5073.6
42.5°	4356.5	4393.4	4474.8	4548.7	4689.2	4833.3	4912.8	4957.2	5003.4	4986.7	4935.0
45°	4116.2	4149.5	4177.2	4241.9	4378.7	4506.2	4604.1	4670.7	4753.9	4792.7	4729.8
47.5°	3877.8	3887.0	3920.3	3973.9	4055.2	4153.2	4317.7	4417.5	4495.1	4570.9	4530.2
50°	3694.8	3661.5	3667.1	3700.3	3766.9	3863.0	3981.3	4121.7	4210.5	4302.9	4312.1
52.5°	3229.0	3498.9	3434.2	3452.6	3487.8	3534.0	3657.8	3796.4	3905.5	3985.0	4064.4
55°	2709.6	2763.2	3282.6	3208.7	3230.9	3271.5	3328.8	3467.4	3572.8	3683.7	3794.6
57.5°	2101.5	2500.8	2521.1	3001.7	2990.6	2994.3	3042.3	3121.8	3227.2	3365.8	3460.0
60°	1633.9	1802.1	2129.3	2295.6	2717.0	2731.8	2759.5	2805.7	2896.3	3027.5	3177.2
62.5°	1441.7	1463.9	1580.3	1829.8	2103.4	2434.2	2493.4	2500.8	2541.4	2672.7	2846.4
65°	1266.1	1280.9	1316.0	1341.9	1571.1	1890.8	2175.5	2221.7	2247.5	2325.2	2473.0
67.5°	872.4	1103.4	1134.9	1153.3	1175.5	1323.4	1676.4	1911.2	1940.7	2009.1	2138.5
70°	168.2	349.3	955.6	975.9	987.0	1020.3	1077.6	1450.9	1646.8	1711.5	1770.7
72.5°	114.6	134.9	162.7	384.4	813.3	831.7	844.7	892.7	1223.6	1412.1	1443.5
75°	83.2	92.4	109.1	134.9	166.3	541.6	670.9	695.0	719.0	992.5	1151.5
77.5°	59.1	66.5	73.9	86.9	101.7	131.2	188.5	519.4	543.4	556.3	785.5
80°	33.3	40.7	49.9	57.3	64.7	73.9	96.1	120.1	268.0	391.8	412.2
82.5°	18.5	22.2	25.9	31.4	35.1	44.4	53.6	64.7	85.0	125.7	266.2
85°	9.2	9.2	9.2	12.9	14.8	20.3	24.0	27.7	38.8	53.6	73.9
87.5°	5.5	5.5	7.4	7.4	7.4	9.2	9.2	9.2	11.1	16.6	24.0
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-LD5-130HL-RM-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	356°	357°	358°	359°	360°
0°	6158.6	6158.6	6158.6	6158.6	6158.6
2.5°	6182.6	6177.1	6177.1	6199.2	6193.7
5°	6171.5	6166.0	6164.1	6188.2	6177.1
7.5°	6162.3	6141.9	6136.4	6158.6	6149.3
10°	6125.3	6110.5	6119.8	6112.4	6108.7
12.5°	6062.5	6053.2	6014.4	6018.1	6049.5
15°	5949.7	5986.7	5920.1	5979.3	5992.2
17.5°	5742.7	5825.9	5890.6	5925.7	5931.2
20°	5835.1	5862.8	5829.6	5831.4	5853.6
22.5°	5715.0	5727.9	5737.2	5726.1	5774.1
25°	5522.8	5472.9	5580.1	5602.2	5679.9
27.5°	5463.6	5422.9	5472.9	5469.2	5533.8
30°	5415.6	5284.3	5306.5	5341.6	5421.1
32.5°	5347.2	5140.2	5118.0	5195.6	5284.3
35°	5227.0	5031.1	4979.4	5029.3	5162.3
37.5°	5125.4	4879.5	4776.0	4842.6	5016.3
40°	4973.8	4761.3	4600.4	4659.6	4864.8
42.5°	4792.7	4659.6	4411.9	4452.6	4687.3
45°	4609.7	4491.4	4228.9	4249.3	4528.4
47.5°	4423.0	4314.0	4038.6	4042.3	4325.1
50°	4240.0	4095.9	3868.5	3803.8	4108.8
52.5°	4001.6	3868.5	3696.6	3591.3	3903.6
55°	3776.1	3626.4	3500.7	3338.1	3670.7
57.5°	3556.2	3389.8	3304.8	3095.9	3406.4
60°	3254.9	3175.4	3049.7	2850.1	3168.0
62.5°	2946.2	2920.3	2792.8	2585.8	2874.1
65°	2585.8	2646.8	2515.6	2338.1	2569.2
67.5°	2245.7	2354.8	2210.6	2101.5	2275.3
70°	1883.4	2009.1	1927.8	1889.0	1962.9
72.5°	1526.7	1648.7	1656.1	1628.4	1652.4
75°	1179.2	1314.2	1388.1	1345.6	1351.1
77.5°	894.6	959.3	1040.6	1073.9	1066.5
80°	552.6	665.4	731.9	800.3	776.3
82.5°	279.1	373.4	454.7	528.6	493.5
85°	116.4	149.7	208.9	275.4	264.3
87.5°	35.1	59.1	62.8	88.7	83.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)