

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: McGRAW-EDISON

Report Number: P457342

Luminaire Tested: **GALN-SA8C-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457342
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45370 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 429
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: 24 FT

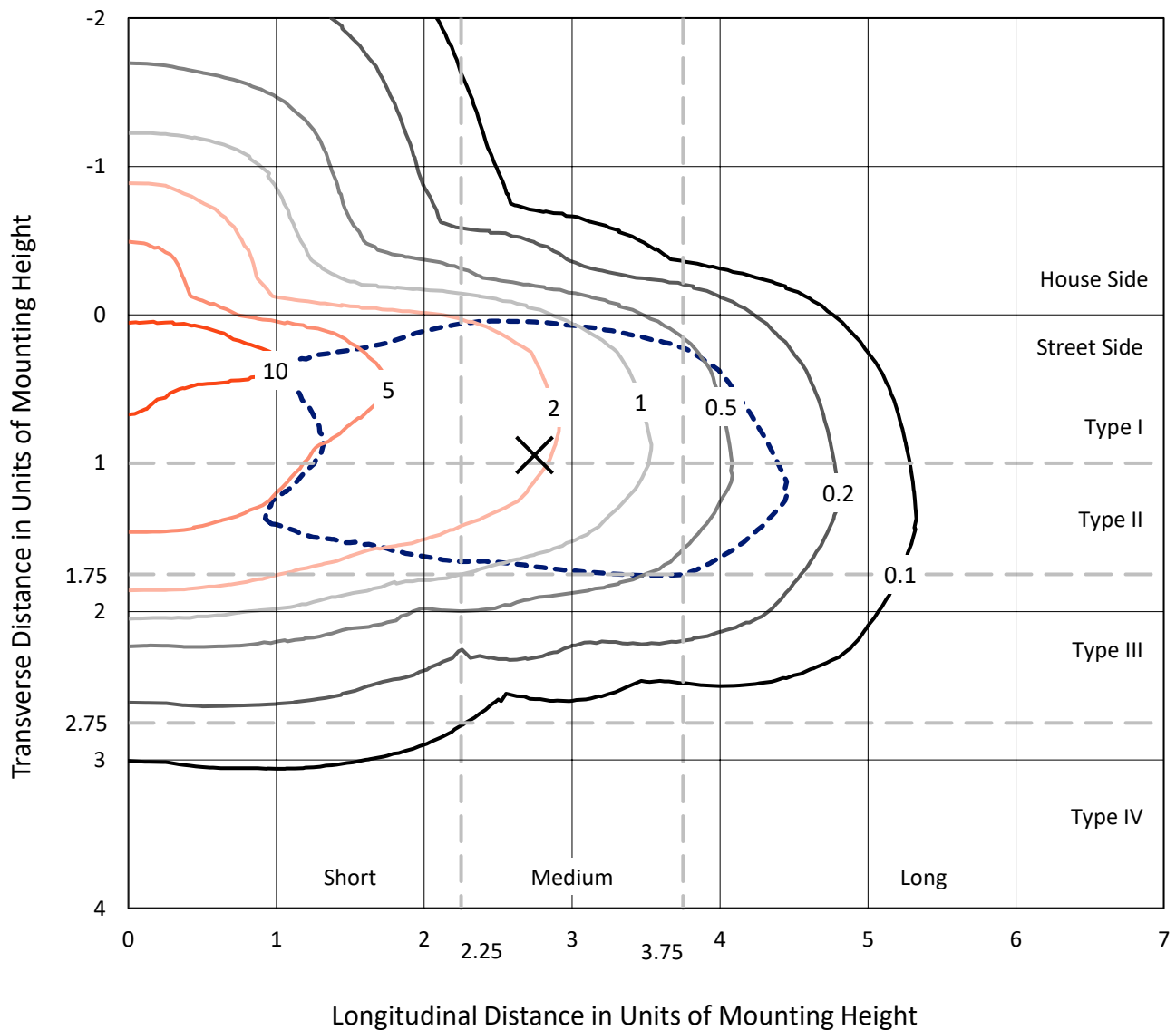


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

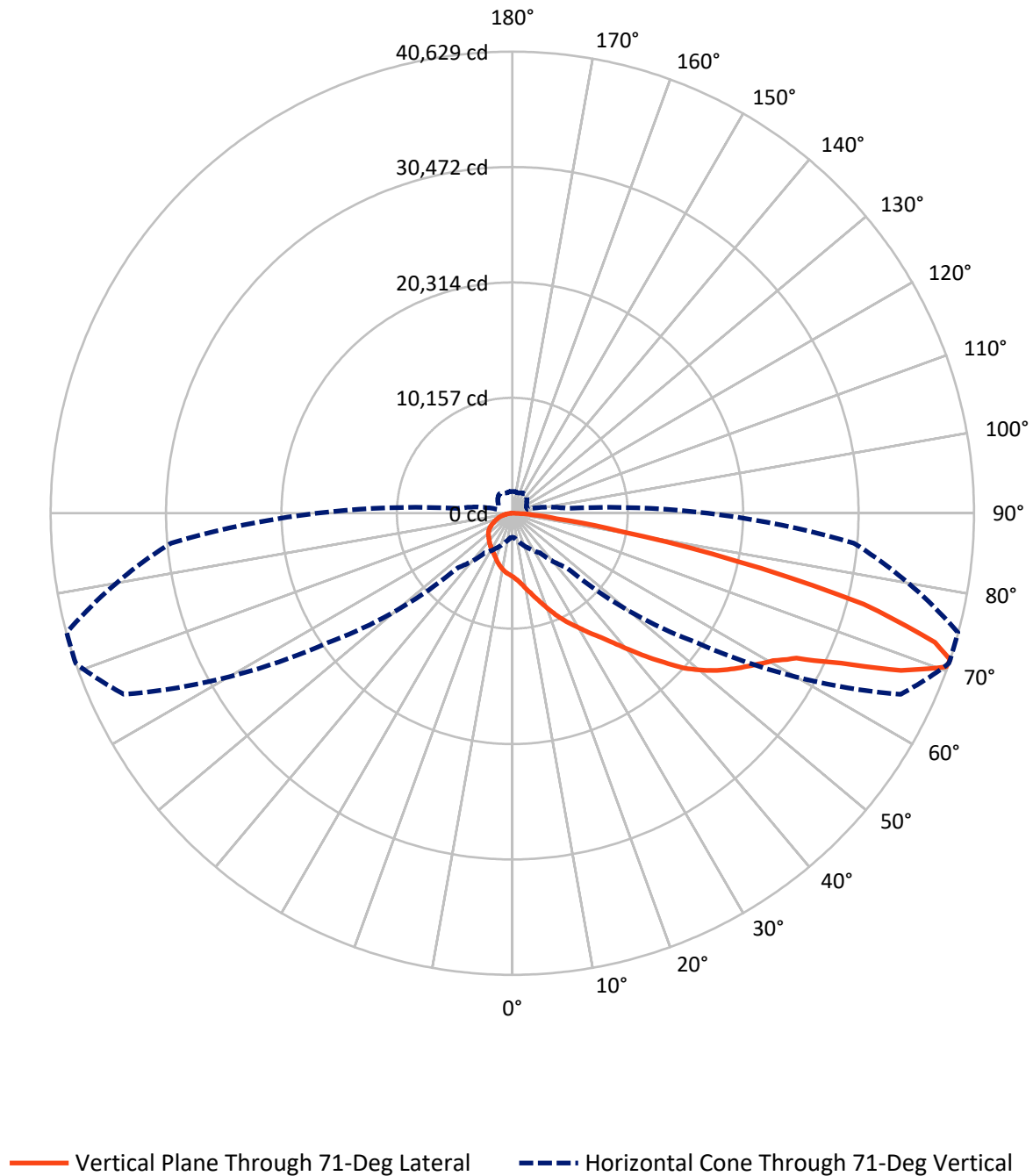


Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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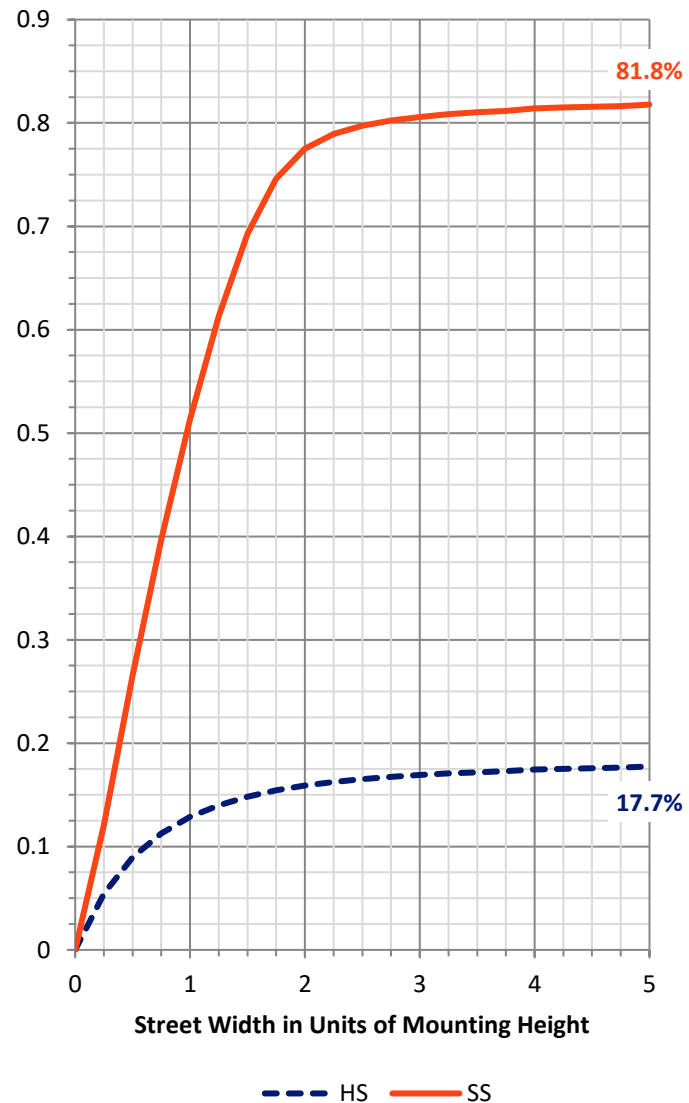
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8159.7	0.0	8159.7
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	37210.3	0.0	37210.3
	% Fixture	82.0	0.0	82.0
Total	Lumens	45370.0	0.0	45370.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.1	1.2
10°-20°	1816.4	4.0
20°-30°	3174.4	7.0
30°-40°	4721.5	10.4
40°-50°	6956.5	15.3
50°-60°	9739.2	21.5
60°-70°	10893.0	24.0
70°-80°	6653.9	14.7
80°-90°	855.9	1.9
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°-90°	45370.0	100.0
0°-180°	45370.0	100.0

Coefficient of Utilization



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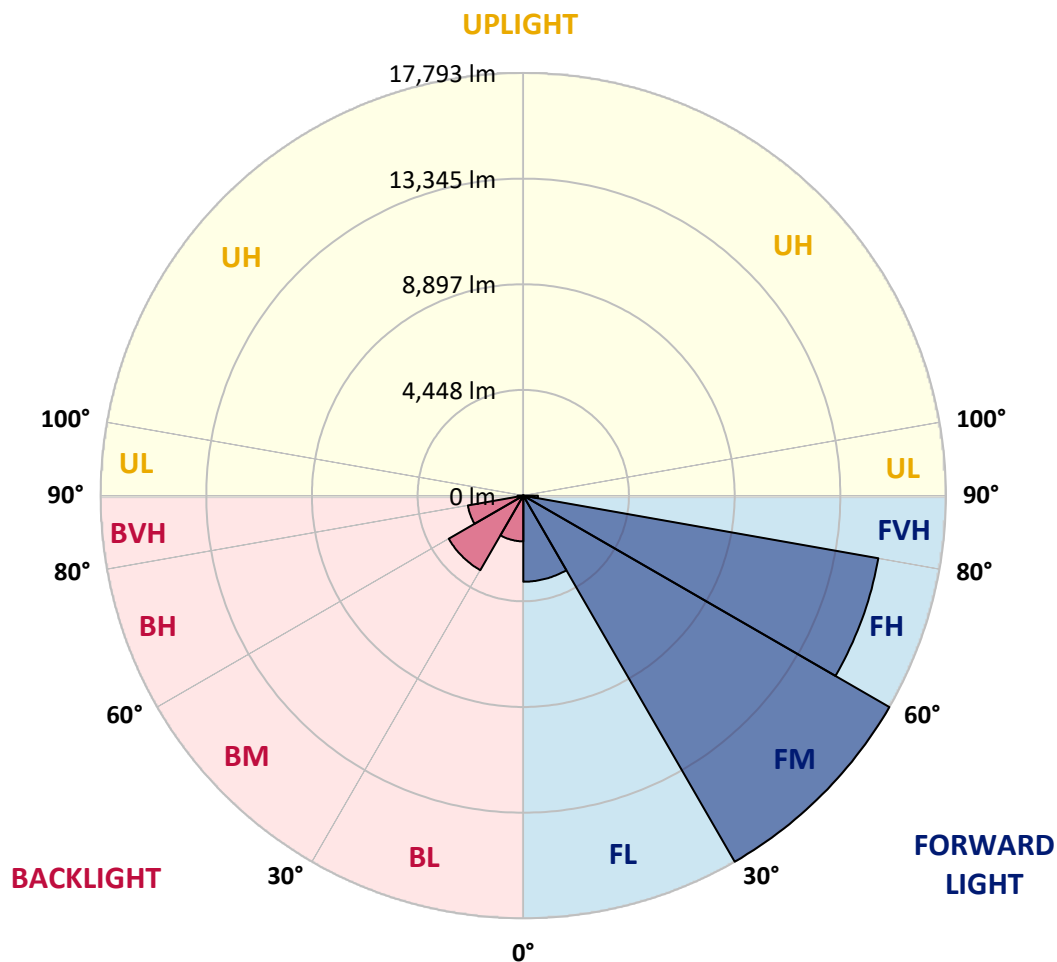
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3625.1	8.0			
FM	(30°-60°)	17793.2	39.2			
FH	(60°-80°)	15176.1	33.4			G5
FVH	(80°-90°)	615.9	1.4			G4/750
BL	(0°-30°)	1924.8	4.2	B3/2500		
BM	(30°-60°)	3624.0	8.0	B3/5000		
BH	(60°-80°)	2370.7	5.2	B3/2500		G3/2500
BVH	(80°-90°)	240.1	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	5568.3	5568.3	5568.3	5568.3	5568.3	5568.3	5568.3	5568.3	5568.3	5568.3	5568.3
2.5°	6181.7	6151.8	6154.3	6111.9	6057.0	5997.2	5912.4	5837.6	5777.7	5742.8	5640.6
5°	6850.0	6820.1	6782.7	6690.4	6650.5	6503.4	6316.4	6146.8	6017.1	5944.8	5740.3
7.5°	7391.1	7383.6	7373.7	7321.3	7219.1	7014.6	6855.0	6560.7	6368.7	6231.6	5882.5
10°	7725.3	7737.7	7745.2	7755.2	7712.8	7605.6	7386.1	7014.6	6770.2	6595.6	6067.0
12.5°	7894.8	7907.3	7949.7	8042.0	8099.3	8086.8	7907.3	7543.2	7206.6	6977.2	6264.0
15°	7999.6	8019.5	8094.3	8216.5	8408.5	8530.7	8443.4	8106.8	7737.7	7465.9	6498.4
17.5°	8114.3	8136.7	8219.0	8393.6	8645.4	8909.7	9004.5	8715.2	8313.8	7989.6	6760.2
20°	8179.1	8209.0	8326.2	8555.6	8849.9	9233.9	9548.1	9396.0	8957.1	8598.0	7062.0
22.5°	8283.8	8308.8	8408.5	8652.9	9004.5	9485.8	10091.7	10059.3	9672.8	9209.0	7393.6
25°	8568.1	8608.0	8657.9	8805.0	9144.1	9742.6	10543.1	10767.5	10366.0	9847.3	7697.8
27.5°	9104.2	9136.7	9134.2	9154.1	9346.1	9964.5	10934.6	11468.2	11054.3	10493.2	7992.1
30°	9715.2	9727.6	9737.6	9692.7	9735.1	10191.5	11293.6	12161.4	11747.5	11156.5	8248.9
32.5°	10458.3	10483.2	10398.4	10283.7	10248.8	10528.1	11590.4	12854.7	12567.9	11829.8	8503.3
35°	11336.0	11400.9	11228.8	11026.8	10884.7	11011.9	11989.4	13562.8	13408.2	12690.1	8839.9
37.5°	12338.5	12418.3	12258.7	11862.2	11660.2	11695.1	12510.5	14438.1	14470.5	13670.1	9341.1
40°	13158.9	13263.6	13268.6	12707.5	12400.8	12440.7	13171.3	15380.7	15752.3	14882.0	9932.1
42.5°	13700.0	13802.2	13909.5	13580.3	13258.6	13485.5	13941.9	16403.1	17193.6	16353.2	10757.5
45°	14293.5	14385.7	14445.6	14296.0	14116.4	14704.9	14872.0	17490.3	18729.6	17996.5	11660.2
47.5°	14981.7	15084.0	15141.3	14999.2	14931.8	15774.7	15874.4	18505.2	20370.5	19592.4	12657.7
50°	15899.4	15976.7	15946.8	15857.0	15842.0	16595.1	16837.0	19455.3	21724.5	21310.5	13692.5
52.5°	17041.5	17133.7	17166.1	17039.0	16981.6	17181.1	17612.5	20320.6	22956.3	22786.8	14797.2
55°	17732.2	17879.3	18373.1	18572.5	18709.7	17939.2	18447.9	21275.6	24061.0	24342.8	15984.2
57.5°	16847.0	17036.5	18141.1	19138.6	20427.8	19834.3	19632.3	22273.1	25165.7	25851.4	17405.5
60°	14687.5	14729.9	16153.7	17991.5	20584.9	22270.6	22103.5	23859.0	26362.6	27372.6	19278.2
62.5°	10189.0	10278.7	11961.9	14894.4	18644.9	23148.4	26307.8	26597.0	28078.3	29649.2	22023.7
65°	5254.1	5136.9	6670.5	9361.1	14056.6	21063.7	29714.1	31631.7	31798.8	33210.1	25888.9
67.5°	3234.2	3286.6	4004.8	5466.0	8311.3	15308.4	29357.5	37783.5	36903.2	37581.5	29477.2
70°	2428.8	2493.6	2987.4	3740.4	5067.1	8752.6	23609.7	39274.6	40504.0	40329.5	30569.4
71°	2112.1	2179.4	2693.1	3403.8	4256.6	6755.2	19891.7	37713.6	40628.7	40598.8	30157.9
72.5°	1800.4	1842.8	2244.3	2882.6	3588.3	4735.4	14944.3	33823.6	38895.6	39890.6	28689.2
75°	1413.9	1446.3	1625.8	2199.4	2825.3	2907.6	8019.5	25357.7	31945.9	33841.0	23884.0
77.5°	1152.1	1174.5	1266.8	1633.3	2179.4	2059.7	4206.8	16505.3	20013.9	21921.5	14069.1
80°	915.2	940.1	995.0	1107.2	1633.3	1468.7	2007.4	8363.6	9667.8	9647.8	5615.7
82.5°	710.7	718.2	783.0	812.9	1117.1	1042.3	1087.2	3541.0	3922.5	4052.1	2027.3
85°	448.9	471.3	693.2	623.4	668.3	610.9	536.1	1406.4	1733.1	1708.1	810.4
87.5°	137.1	144.6	234.4	264.3	296.7	266.8	197.0	413.9	506.2	548.6	202.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5568.3	5568.3	5568.3	5568.3	5568.3	5568.3	5568.3	5568.3	5568.3	5568.3	5568.3
2.5°	5600.7	5573.3	5476.0	5396.2	5321.4	5239.1	5169.3	5149.3	5131.9	5124.4	5121.9
5°	5653.1	5570.8	5378.8	5221.7	5097.0	4982.3	4910.0	4877.5	4845.1	4845.1	4855.1
7.5°	5727.9	5578.2	5281.5	5047.1	4890.0	4782.8	4730.4	4725.4	4732.9	4740.4	4742.9
10°	5810.2	5573.3	5139.4	4847.6	4708.0	4658.1	4660.6	4703.0	4742.9	4772.8	4777.8
12.5°	5890.0	5543.3	4972.3	4660.6	4570.8	4580.8	4650.6	4745.4	4822.7	4865.1	4867.6
15°	5979.7	5496.0	4770.3	4483.5	4453.6	4530.9	4660.6	4805.2	4922.4	4992.2	4999.7
17.5°	6054.5	5416.2	4558.4	4311.5	4348.9	4491.0	4670.6	4857.6	4999.7	5087.0	5102.0
20°	6139.3	5313.9	4338.9	4146.9	4254.1	4446.1	4650.6	4852.6	4999.7	5084.5	5104.5
22.5°	6206.6	5169.3	4129.4	4012.2	4169.3	4391.3	4583.3	4745.4	4865.1	4910.0	4939.9
25°	6234.1	4987.3	3932.5	3902.5	4102.0	4301.5	4431.2	4523.4	4560.8	4555.9	4568.3
27.5°	6219.1	4777.8	3762.9	3815.3	4017.2	4161.9	4226.7	4219.2	4151.9	4089.6	4119.5
30°	6156.8	4528.4	3620.7	3725.5	3907.5	3987.3	3977.3	3880.1	3752.9	3635.7	3643.2
32.5°	6044.6	4259.1	3488.6	3623.2	3752.9	3787.8	3720.5	3593.3	3411.3	3259.2	3236.7
35°	5949.8	4002.3	3371.4	3506.0	3598.3	3580.9	3516.0	3351.4	3186.9	3052.2	3029.8
37.5°	5934.8	3782.8	3259.2	3373.9	3426.2	3401.3	3321.5	3181.9	3122.0	3019.8	3007.3
40°	6014.6	3628.2	3144.5	3234.2	3259.2	3239.2	3151.9	3072.2	3127.0	3102.1	3102.1
42.5°	6231.6	3545.9	3042.2	3094.6	3114.5	3129.5	3067.2	2999.8	3067.2	2952.5	2915.1
45°	6575.7	3548.4	2950.0	2957.4	3017.3	3069.7	3027.3	2927.5	2892.6	2663.2	2618.3
47.5°	7081.9	3633.2	2875.2	2827.8	2935.0	3022.3	2962.4	2817.8	2663.2	2511.1	2483.7
50°	7672.9	3785.3	2807.8	2693.1	2825.3	2962.4	2917.5	2748.0	2588.4	2496.1	2478.7
52.5°	8328.7	3977.3	2725.5	2543.5	2690.6	2935.0	2927.5	2738.0	2518.6	2456.2	2441.3
55°	9139.1	4166.9	2623.3	2368.9	2570.9	2912.6	2900.1	2655.7	2503.6	2458.7	2453.7
57.5°	10081.7	4441.2	2476.2	2191.9	2433.8	2820.3	2792.9	2605.8	2453.7	2421.3	2418.8
60°	11600.4	4867.6	2266.7	2029.8	2294.1	2658.2	2693.1	2521.1	2373.9	2366.5	2364.0
62.5°	13597.8	5466.0	2049.8	1862.7	2132.1	2448.7	2548.5	2406.4	2289.2	2326.6	2331.5
65°	16355.7	5969.7	1825.3	1720.6	1952.5	2246.8	2411.3	2299.1	2194.4	2266.7	2266.7
67.5°	18153.6	5979.7	1620.9	1573.5	1770.5	2077.2	2266.7	2172.0	2072.2	2194.4	2199.4
70°	17779.6	5239.1	1451.3	1418.9	1593.4	1895.2	2107.1	2032.3	1917.6	2027.3	1987.4
71°	17176.1	4827.7	1384.0	1359.0	1523.6	1807.9	2032.3	1970.0	1855.3	1927.6	1905.1
72.5°	16213.6	4191.8	1274.2	1279.2	1418.9	1698.2	1927.6	1862.7	1748.0	1787.9	1780.5
75°	13705.0	3660.6	1089.7	1112.2	1219.4	1511.1	1718.1	1668.2	1551.0	1551.0	1543.6
77.5°	8568.1	2558.5	905.2	917.7	1034.9	1294.2	1476.2	1433.8	1321.6	1284.2	1274.2
80°	3196.8	1321.6	708.2	723.2	795.5	1019.9	1221.9	1182.0	1067.3	1024.9	985.0
82.5°	1209.4	663.3	521.2	508.7	586.0	778.0	957.6	910.2	820.4	718.2	688.2
85°	456.3	329.2	319.2	309.2	344.1	461.3	593.5	583.5	488.8	416.4	409.0
87.5°	119.7	107.2	124.7	92.3	97.3	87.3	89.8	37.4	17.5	7.5	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)