

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: P456650

Luminaire Tested: **GALN-SA7D-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42460 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 433
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

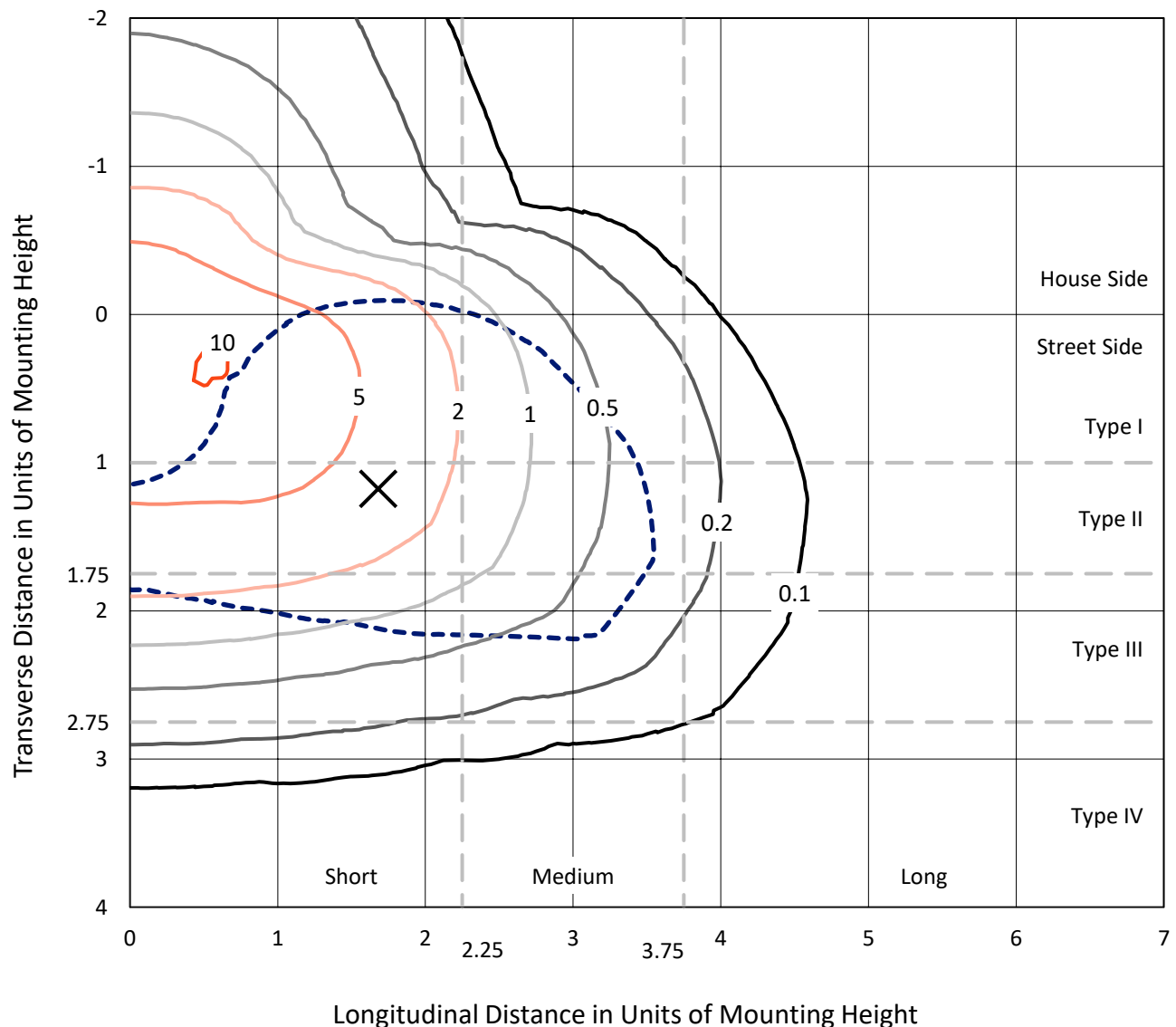


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

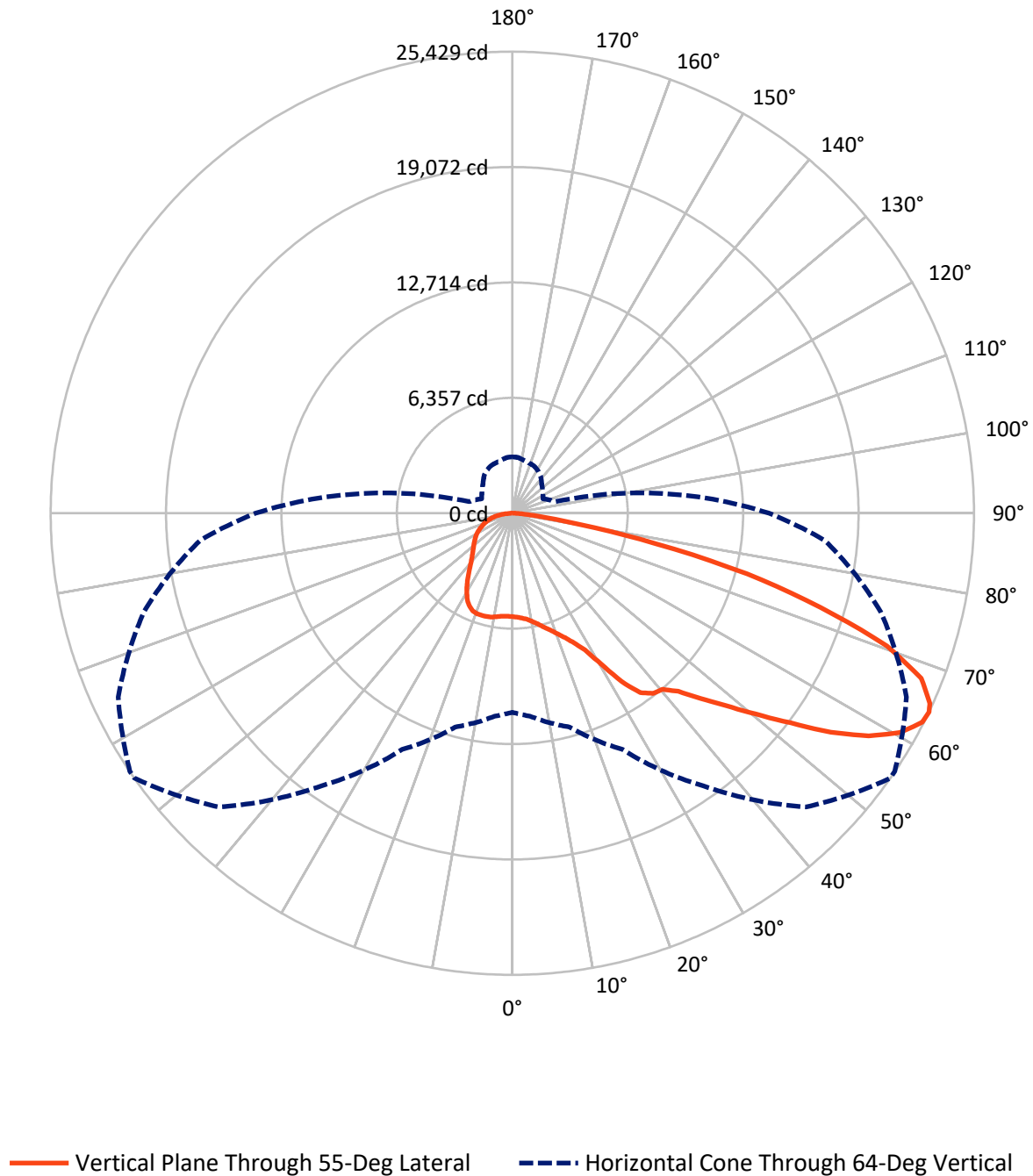


Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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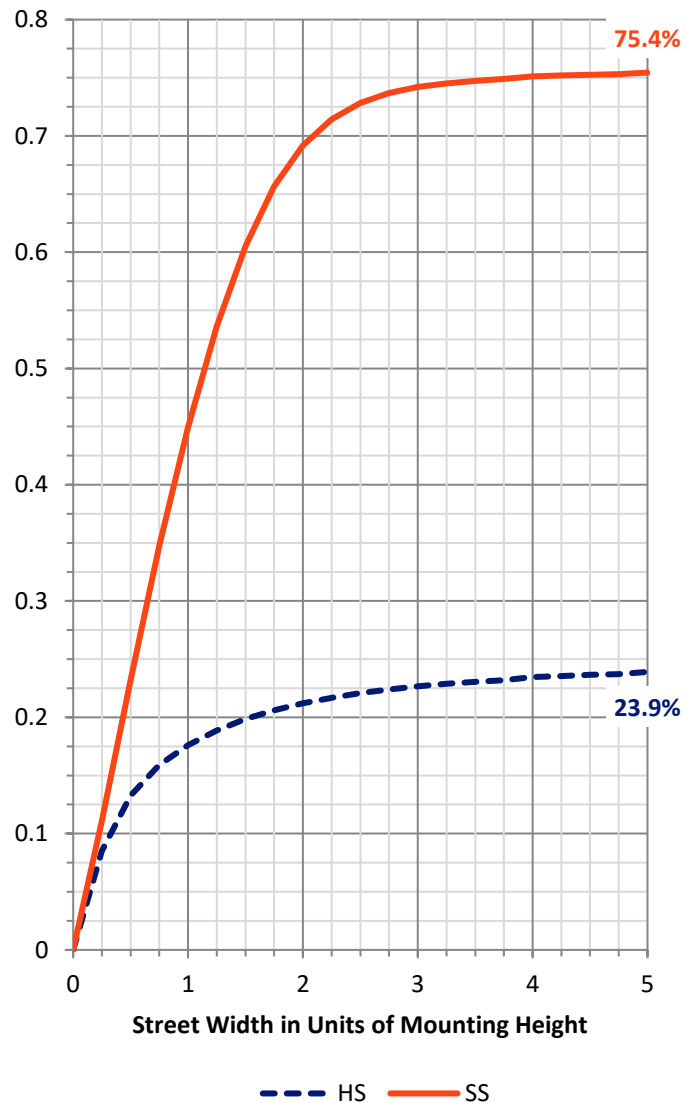
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10314.4	0.0	10314.4
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	32145.6	0.0	32145.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	42460.0	0.0	42460.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.2	1.3
10°-20°	1748.5	4.1
20°-30°	3112.8	7.3
30°-40°	4789.4	11.3
40°-50°	6789.4	16.0
50°-60°	9827.5	23.1
60°-70°	10170.4	24.0
70°-80°	4762.8	11.2
80°-90°	705.1	1.7
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°	42460.0	100.0
0°-180°	42460.0	100.0

Coefficient of Utilization



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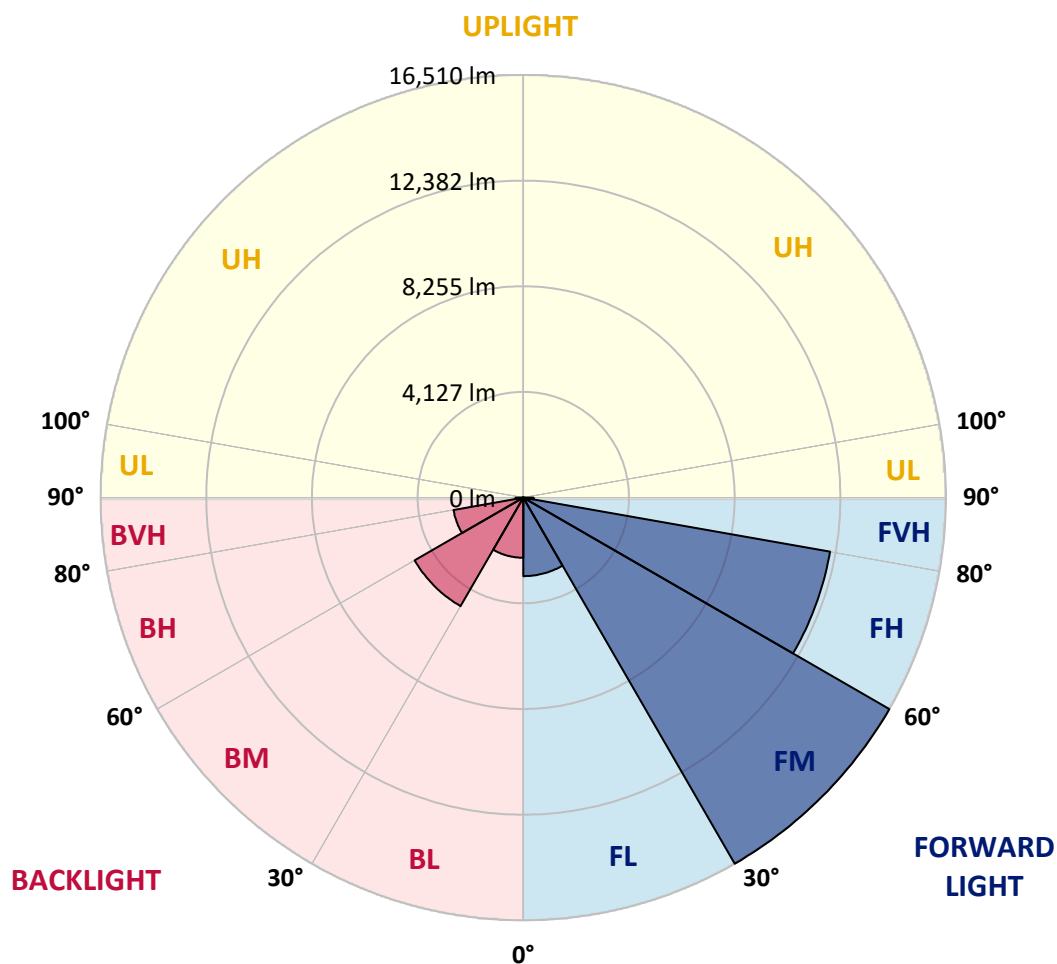
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3066.3	7.2			
FM	(30°-60°)	16509.6	38.9			
FH	(60°-80°)	12166.0	28.7			G5
FVH	(80°-90°)	403.7	1.0			G3/500
BL	(0°-30°)	2349.2	5.5	B3/2500		
BM	(30°-60°)	4896.6	11.5	B3/5000		
BH	(60°-80°)	2767.1	6.5	B4/5000		G4/5000
BVH	(80°-90°)	301.4	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5696.9	5696.9	5696.9	5696.9	5696.9	5696.9	5696.9	5696.9	5696.9	5696.9	5696.9
2.5°	5760.8	5758.4	5765.5	5758.4	5763.1	5746.6	5739.5	5744.2	5737.1	5725.3	5704.0
5°	5831.8	5829.4	5831.8	5822.3	5827.0	5817.6	5801.0	5805.7	5793.9	5767.9	5737.1
7.5°	5952.5	5943.0	5943.0	5940.6	5931.2	5917.0	5905.1	5900.4	5888.6	5855.4	5808.1
10°	6108.7	6108.7	6111.0	6092.1	6103.9	6077.9	6066.1	6063.7	6023.5	5980.9	5914.6
12.5°	6314.6	6326.4	6319.3	6309.8	6305.1	6295.6	6255.4	6264.9	6219.9	6146.5	6066.1
15°	6570.2	6589.1	6577.3	6572.6	6560.7	6525.2	6508.7	6501.6	6442.4	6335.9	6229.4
17.5°	6908.6	6885.0	6875.5	6863.7	6814.0	6787.9	6759.5	6754.8	6702.7	6577.3	6411.6
20°	7204.5	7237.6	7218.7	7206.9	7157.2	7107.5	7086.2	7079.1	7034.1	6896.8	6631.7
22.5°	7557.1	7564.2	7571.3	7542.9	7519.3	7481.4	7443.5	7431.7	7415.1	7273.1	6948.9
25°	7933.5	7961.9	7938.2	7909.8	7881.4	7879.0	7914.5	7909.8	7902.7	7765.4	7370.2
27.5°	8546.5	8572.5	8579.6	8548.8	8440.0	8449.4	8529.9	8555.9	8664.8	8437.6	7912.2
30°	8892.0	8918.0	8977.2	9093.2	9266.0	9417.4	9611.5	9670.7	9774.8	9346.4	8555.9
32.5°	9105.0	9114.5	9221.0	9436.4	9954.7	10520.4	11048.2	11069.5	11135.7	10534.6	9145.3
35°	9441.1	9448.2	9533.4	9770.1	10378.4	11320.3	12136.9	12162.9	12108.5	10903.8	9419.8
37.5°	9855.3	9874.2	9928.7	10125.1	10851.7	11990.1	12588.9	12570.0	12087.2	11197.3	9905.0
40°	10458.8	10458.8	10394.9	10660.0	11351.1	12373.5	12747.5	12714.4	12586.6	12046.9	10643.4
42.5°	10991.3	10981.9	11133.4	11313.2	11975.9	12965.2	13412.6	13467.0	13677.6	13114.4	11483.6
45°	11684.8	11727.4	11812.6	12139.2	13038.6	13975.9	14553.4	14605.4	14903.6	14371.1	12465.9
47.5°	12385.4	12399.6	12667.0	13102.5	14354.5	15346.2	15819.6	15904.8	16177.0	15840.9	13523.8
50°	12882.4	13017.3	13445.7	14132.1	15710.7	17017.2	17386.4	17488.2	17968.6	17440.8	14756.9
52.5°	13407.8	13540.4	14063.4	15109.6	17268.1	18726.0	19180.4	19249.1	19748.5	19059.7	16018.4
55°	13857.5	13980.6	14574.7	15975.8	18508.3	20470.3	21294.0	21213.5	21452.5	20307.0	16991.1
57.5°	13930.9	14030.3	14778.2	16529.6	19440.8	21966.1	23147.2	23194.5	22917.6	21239.5	17793.5
60°	13362.9	13566.4	14425.6	16470.5	19859.7	23007.5	24529.4	24562.5	23776.7	21717.6	18113.0
62.5°	12357.0	12335.7	13374.7	15519.0	19272.7	23244.2	25343.5	25308.0	24112.8	21488.0	17803.0
64°	10967.7	11223.3	12193.7	14349.8	18326.0	22879.7	25428.7	25409.8	23951.9	21009.9	17275.2
65°	10120.4	10106.2	11064.7	13393.6	17384.0	22330.6	25277.3	25251.2	23615.8	20581.6	16865.7
67.5°	7306.3	7339.4	8286.1	10335.7	14132.1	20183.9	24290.3	24193.3	22290.4	19161.5	15308.4
70°	4425.9	4444.8	5188.0	6856.6	10144.0	16316.6	21895.1	21899.9	20262.0	17040.8	13029.1
72.5°	2331.3	2381.0	2679.2	3893.4	6160.7	11448.1	17762.7	18184.0	17395.9	14543.9	10293.1
75°	1297.0	1304.1	1514.7	1919.5	3143.1	6406.9	13351.0	13471.7	13772.3	11706.1	7611.6
77.5°	989.3	1003.5	1069.8	1240.2	1711.2	2970.3	8080.2	8686.1	9706.2	8253.0	4343.0
80°	802.3	816.5	873.3	975.1	1138.4	1408.2	3753.7	4080.3	5195.1	3663.8	1694.6
82.5°	624.8	615.4	688.7	755.0	828.4	833.1	1540.8	1704.1	2115.9	1576.3	733.7
85°	463.9	463.9	523.1	508.9	534.9	487.6	679.3	750.3	847.3	669.8	340.8
87.5°	184.6	203.5	343.2	307.7	239.0	191.7	250.9	265.1	293.5	262.7	142.0
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°	5696.9	5696.9	5696.9	5696.9	5696.9	5696.9	5696.9	5696.9	5696.9	5696.9	5696.9
2.5°	5706.3	5713.4	5696.9	5685.0	5680.3	5673.2	5666.1	5668.4	5677.9	5687.4	5685.0
5°	5734.7	5737.1	5708.7	5694.5	5685.0	5675.5	5675.5	5682.6	5701.6	5715.8	5715.8
7.5°	5805.7	5805.7	5765.5	5739.5	5725.3	5708.7	5704.0	5706.3	5720.5	5739.5	5741.8
10°	5917.0	5907.5	5855.4	5815.2	5789.2	5748.9	5713.4	5694.5	5701.6	5713.4	5713.4
12.5°	6051.9	6025.8	5959.6	5905.1	5841.2	5765.5	5692.1	5654.2	5651.9	5663.7	5659.0
15°	6196.2	6167.8	6075.5	5976.1	5864.9	5753.7	5666.1	5611.6	5569.0	5557.2	5583.2
17.5°	6364.3	6305.1	6177.3	6040.0	5874.4	5730.0	5592.7	5481.5	5405.7	5384.4	5391.5
20°	6567.8	6489.7	6316.9	6101.6	5867.3	5644.8	5431.8	5282.7	5159.6	5121.7	5126.5
22.5°	6849.5	6714.6	6461.3	6132.3	5808.1	5483.8	5188.0	4993.9	4844.8	4785.6	4821.1
25°	7169.0	7022.2	6598.6	6125.2	5654.2	5225.9	4899.2	4646.0	4511.1	4423.5	4442.5
27.5°	7609.2	7348.9	6745.3	6061.3	5434.1	4911.1	4532.4	4293.3	4170.3	4125.3	4146.6
30°	8172.5	7772.5	6903.9	5888.6	5086.2	4513.5	4163.2	4007.0	3933.6	3876.8	3895.7
32.5°	8579.6	8070.7	6939.4	5597.4	4709.9	4151.3	3912.3	3796.3	3715.9	3661.4	3673.2
35°	8870.7	8324.0	6922.8	5240.1	4317.0	3853.1	3713.5	3618.8	3488.6	3370.3	3349.0
37.5°	9261.2	8641.1	6802.1	4849.5	3928.9	3651.9	3552.5	3377.4	3190.4	3031.9	3024.8
40°	9860.0	9012.7	6544.2	4390.4	3597.5	3502.8	3382.1	3154.9	2953.7	2825.9	2816.5
42.5°	10477.8	9355.9	6193.9	3907.6	3325.3	3346.6	3199.9	2975.0	2852.0	2769.1	2759.7
45°	11232.8	9727.5	5815.2	3488.6	3124.2	3199.9	3041.3	2911.1	2837.8	2783.3	2769.1
47.5°	12049.3	10108.5	5389.2	3112.3	2953.7	3065.0	2975.0	2915.9	2875.6	2837.8	2821.2
50°	12929.7	10534.6	4989.2	2809.4	2799.9	2925.3	2967.9	2946.6	2923.0	2911.1	2896.9
52.5°	13895.4	10970.0	4653.1	2596.4	2665.0	2825.9	2970.3	2986.9	2986.9	2979.8	2970.3
55°	14548.6	11273.0	4312.3	2423.6	2527.7	2745.5	2965.6	3029.5	3053.2	3043.7	3034.2
57.5°	15031.4	11438.7	3883.9	2274.5	2411.8	2667.4	2939.5	3034.2	3057.9	3069.7	3065.0
60°	15130.9	11284.8	3323.0	2118.3	2286.3	2553.8	2844.9	2963.2	2994.0	3067.4	3074.5
62.5°	14683.5	10811.5	2764.4	1964.4	2132.5	2381.0	2717.1	2882.7	2944.3	3057.9	3069.7
64°	14134.4	10281.3	2454.4	1867.4	2033.1	2283.9	2653.2	2861.4	2941.9	3093.4	3102.9
65°	13732.1	9895.5	2260.3	1805.9	1969.2	2220.0	2617.7	2868.5	2963.2	3147.8	3162.0
67.5°	12250.5	8567.8	1869.8	1661.5	1817.7	2111.2	2624.8	2927.7	2958.5	3169.1	3166.8
70°	10136.9	6821.1	1566.8	1528.9	1670.9	2023.6	2596.4	2833.0	2835.4	2975.0	2941.9
72.5°	7590.3	5041.3	1358.5	1391.7	1507.6	1815.3	2452.0	2705.2	2665.0	2683.9	2650.8
75°	5214.0	3334.8	1169.2	1244.9	1337.2	1604.7	2248.4	2456.7	2392.8	2369.2	2345.5
77.5°	2783.3	1843.7	972.7	1100.6	1162.1	1386.9	1962.1	2163.2	2097.0	2004.7	1973.9
80°	1126.6	868.6	783.4	911.2	946.7	1117.1	1633.1	1758.5	1708.8	1547.9	1495.8
82.5°	565.7	520.7	615.4	717.1	719.5	797.6	1214.2	1332.5	1221.3	1024.8	979.8
85°	295.8	305.3	423.7	504.1	445.0	430.8	729.0	807.1	740.8	643.8	579.9
87.5°	106.5	123.1	222.5	220.1	156.2	82.8	160.9	78.1	42.6	26.0	33.1
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)