

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: P456867

Luminaire Tested: **GALN-SA8A-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29291 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): 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

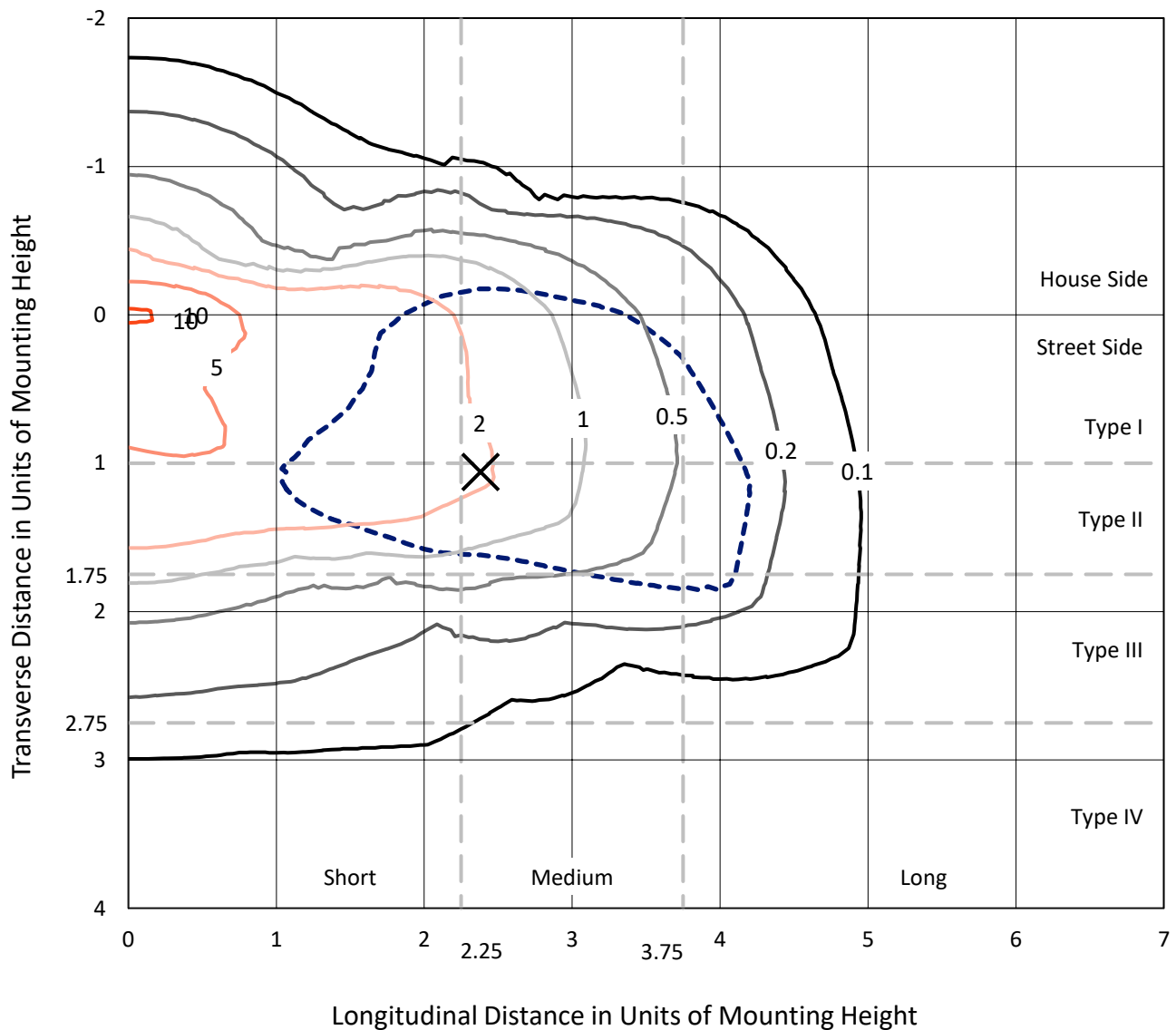


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

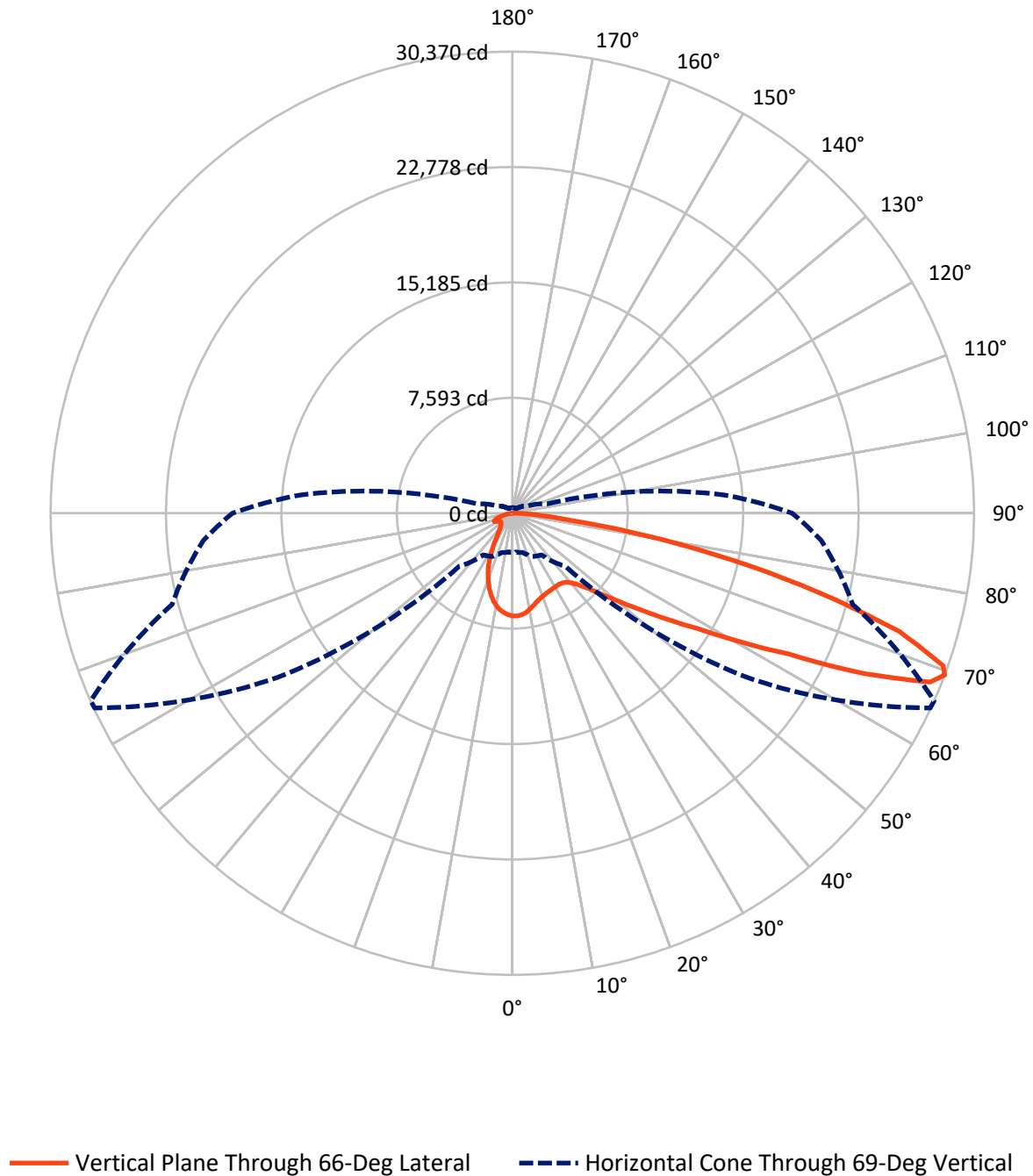


Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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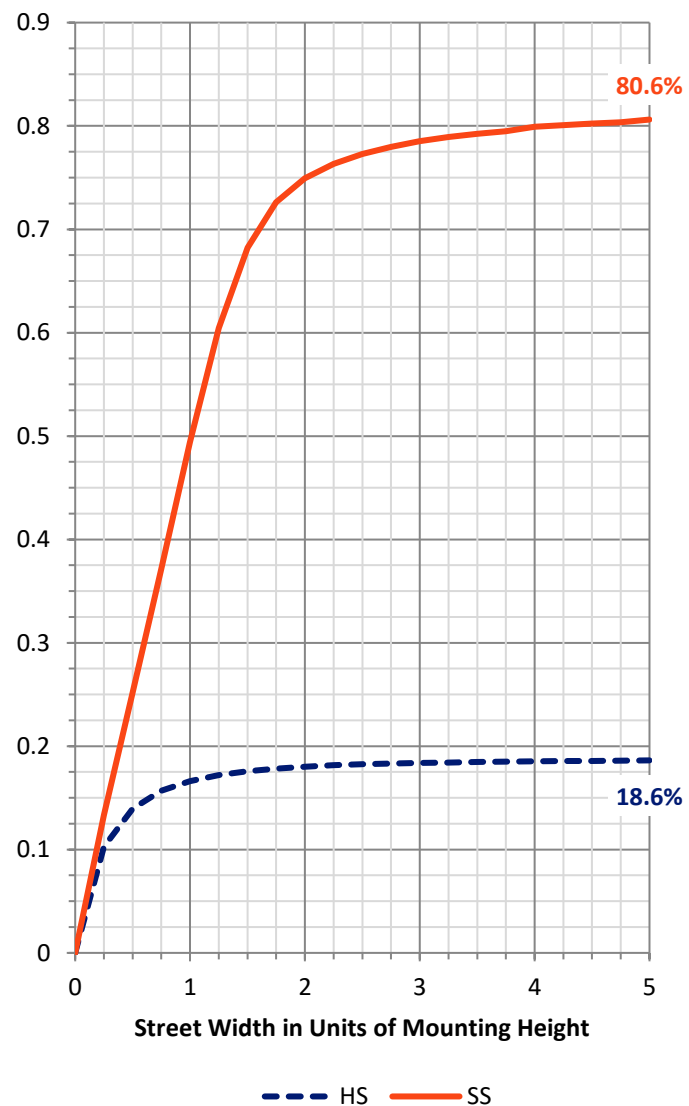
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5508.5	0.0	5508.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	23782.5	0.0	23782.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	29291.0	0.0	29291.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.4	2.0
10°-20°	1393.2	4.8
20°-30°	1896.7	6.5
30°-40°	2548.8	8.7
40°-50°	3805.7	13.0
50°-60°	6053.6	20.7
60°-70°	7445.7	25.4
70°-80°	4844.5	16.5
80°-90°	715.4	2.4
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°	29291.0	100.0
0°-180°	29291.0	100.0

Coefficient of Utilization



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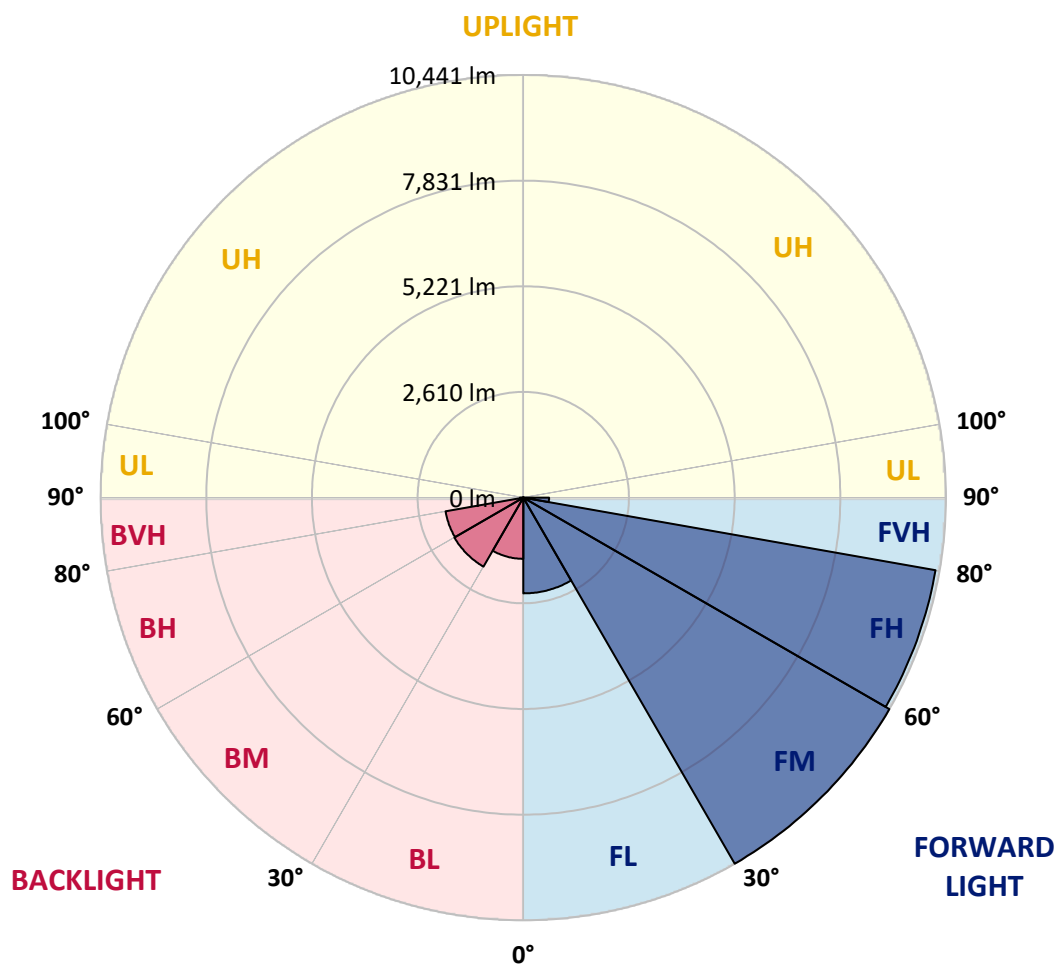
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2365.2	8.1			
FM	(30°-60°)	10441.4	35.6			
FH	(60°-80°)	10339.9	35.3			G4/12000
FVH	(80°-90°)	636.0	2.2			G4/750
BL	(0°-30°)	1512.1	5.2	B3/2500		
BM	(30°-60°)	1966.8	6.7	B2/2500		
BH	(60°-80°)	1950.3	6.7	B3/2500		G3/2500
BVH	(80°-90°)	79.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6764.1	6764.1	6764.1	6764.1	6764.1	6764.1	6764.1	6764.1	6764.1	6764.1	6764.1
2.5°	6527.3	6553.2	6582.4	6614.9	6676.5	6710.6	6734.9	6762.5	6765.7	6780.3	6769.0
5°	6045.5	6076.3	6120.1	6181.8	6274.2	6418.6	6567.8	6689.5	6704.1	6772.2	6791.7
7.5°	5643.2	5661.1	5696.8	5795.7	5927.1	6087.7	6305.1	6551.6	6587.3	6749.5	6806.3
10°	5315.6	5333.4	5375.6	5477.8	5607.6	5808.7	6047.1	6371.6	6400.8	6679.8	6809.5
12.5°	5070.6	5086.9	5132.3	5232.9	5382.1	5570.2	5833.0	6176.9	6219.1	6587.3	6778.7
15°	4884.1	4914.9	4952.2	5035.0	5192.3	5374.0	5628.6	5998.5	6032.5	6490.0	6757.6
17.5°	4804.6	4819.2	4845.2	4921.4	5036.6	5215.0	5471.3	5859.0	5899.5	6421.8	6752.8
20°	4807.9	4822.5	4827.3	4869.5	4952.2	5106.3	5359.4	5748.7	5797.3	6361.8	6760.9
22.5°	4918.2	4919.8	4901.9	4887.4	4919.8	5047.9	5279.9	5666.0	5722.7	6335.9	6767.3
25°	5088.5	5117.7	5091.7	5023.6	4963.6	5025.2	5249.1	5620.5	5674.1	6298.6	6759.2
27.5°	5364.2	5369.1	5348.0	5255.6	5099.8	5054.4	5236.1	5586.5	5631.9	6271.0	6718.7
30°	5734.1	5719.5	5700.0	5597.8	5352.9	5166.3	5263.7	5555.7	5602.7	6230.4	6670.0
32.5°	6108.8	6154.2	6136.4	6016.3	5698.4	5383.7	5352.9	5552.4	5591.3	6199.6	6616.5
35°	6506.2	6527.3	6611.6	6550.0	6224.0	5735.7	5520.0	5602.7	5633.5	6201.2	6579.2
37.5°	6817.6	6874.4	7072.3	7125.8	6819.3	6201.2	5790.9	5745.4	5758.4	6280.7	6593.8
40°	7194.0	7291.3	7546.0	7764.9	7563.8	6806.3	6251.5	6009.8	6026.1	6472.1	6689.5
42.5°	7670.9	7739.0	8081.2	8378.1	8345.6	7606.0	6809.5	6442.9	6451.0	6853.3	6957.1
45°	8228.9	8326.2	8710.6	9156.7	9232.9	8511.1	7615.7	7098.3	7093.4	7445.4	7456.7
47.5°	8942.6	9002.6	9383.8	9870.4	10178.6	9648.2	8593.8	8039.1	7987.2	8308.3	8215.9
50°	9599.5	9693.6	9982.3	10514.4	11281.6	10979.9	9880.1	9258.9	9137.2	9437.3	9281.6
52.5°	9875.3	9974.2	10217.5	10877.7	12227.3	12702.6	11513.6	10713.9	10511.1	10741.5	10684.7
55°	9396.8	9524.9	9752.0	10554.9	12642.6	14689.6	13716.4	12396.0	12248.4	12149.4	12165.7
57.5°	8110.4	8232.1	8538.7	9424.3	12146.2	16131.7	16861.6	14558.2	14241.9	13786.1	13864.0
60°	6173.7	6249.9	6408.9	7390.2	10675.0	16506.4	20433.4	17291.5	17090.3	15416.3	15471.5
62.5°	4384.5	4470.5	4580.8	5070.6	7815.2	15450.4	23229.9	21108.2	20389.6	17104.9	17051.4
65°	3560.5	3502.1	3635.1	3863.8	4585.6	11974.3	23859.3	26406.0	25416.5	19328.8	18585.9
67.5°	2927.9	2866.2	2997.6	3404.8	3487.5	6950.6	21591.6	29844.8	29646.9	21747.3	20144.7
69°	2592.1	2559.7	2674.8	3138.7	3348.0	4936.0	18809.7	30323.3	30370.3	23173.1	20384.8
70°	2335.8	2348.8	2460.7	3004.1	3284.7	4069.8	16076.5	29663.1	30062.2	23885.2	20125.2
72.5°	1719.4	1747.0	1902.7	2488.3	3224.7	3453.4	9567.1	25909.6	26615.2	23927.4	18410.7
75°	1202.0	1189.0	1326.9	1873.5	3046.3	3422.6	5618.9	20037.6	20837.3	20681.6	15469.9
77.5°	786.7	807.8	918.1	1323.6	2562.9	3396.7	3662.7	14216.0	14735.0	13831.5	9150.2
80°	554.8	553.1	614.8	903.5	1901.1	3263.6	2999.2	8960.4	8829.0	5435.6	2713.8
82.5°	317.9	340.6	412.0	635.9	1271.7	2872.7	2759.2	4285.6	3912.5	1549.1	916.5
85°	176.8	184.9	244.9	384.4	742.9	2163.9	2408.8	1949.7	1839.4	647.2	394.2
87.5°	56.8	61.6	102.2	194.7	337.4	1021.9	1364.2	900.3	830.5	233.6	159.0
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°	6764.1	6764.1	6764.1	6764.1	6764.1	6764.1	6764.1	6764.1	6764.1	6764.1	6764.1
2.5°	6773.8	6793.3	6741.4	6691.1	6645.7	6582.4	6525.7	6478.6	6446.2	6441.3	6425.1
5°	6796.5	6798.2	6699.2	6566.2	6436.4	6293.7	6146.1	6040.7	5941.7	5886.6	5859.0
7.5°	6812.8	6798.2	6619.7	6404.0	6154.2	5894.7	5635.1	5427.5	5266.9	5203.7	5228.0
10°	6806.3	6760.9	6499.7	6154.2	5790.9	5403.2	5030.1	4738.1	4470.5	4332.6	4335.8
12.5°	6770.6	6696.0	6321.3	5873.6	5339.9	4820.8	4249.9	3855.7	3545.9	3362.6	3305.8
15°	6739.8	6610.0	6112.0	5492.4	4829.0	4087.7	3391.8	2905.2	2645.6	2501.3	2499.6
17.5°	6707.3	6527.3	5883.3	5088.5	4241.8	3288.0	2558.0	2186.6	2064.9	2079.5	2055.2
20°	6673.3	6430.0	5644.9	4639.2	3526.4	2452.6	1915.7	1764.8	1798.9	1865.4	1875.1
22.5°	6634.3	6326.1	5388.6	4144.4	2773.8	1845.9	1554.0	1531.3	1618.8	1722.7	1737.3
25°	6574.3	6196.4	5065.8	3627.0	2139.5	1487.5	1360.9	1377.2	1463.1	1550.7	1560.4
27.5°	6490.0	6035.8	4739.7	2981.4	1607.5	1276.6	1244.1	1265.2	1307.4	1360.9	1373.9
30°	6376.4	5854.1	4365.0	2423.4	1287.9	1171.1	1158.2	1169.5	1193.9	1216.6	1223.1
32.5°	6262.9	5678.9	3987.1	1855.7	1148.4	1101.4	1088.4	1088.4	1088.4	1091.7	1093.3
35°	6157.4	5513.5	3581.6	1445.3	1075.4	1046.2	1028.4	1008.9	1005.7	994.3	994.3
37.5°	6099.0	5362.6	3150.1	1210.1	1021.9	1000.8	976.5	944.1	926.2	927.8	924.6
40°	6110.4	5263.7	2757.5	1077.1	978.1	955.4	918.1	880.8	869.4	869.4	866.2
42.5°	6238.5	5231.2	2381.2	1007.3	935.9	910.0	863.0	828.9	822.4	820.8	824.0
45°	6533.8	5310.7	2043.8	961.9	900.3	861.3	814.3	783.5	777.0	777.0	775.4
47.5°	7109.6	5568.6	1802.1	932.7	874.3	824.0	775.4	744.5	733.2	729.9	729.9
50°	8005.0	6128.2	1622.1	906.7	841.9	790.0	739.7	704.0	686.1	684.5	682.9
52.5°	9249.1	7000.9	1552.3	887.3	806.2	754.3	699.1	665.1	642.3	637.5	634.2
55°	10704.2	8219.1	1648.0	872.7	768.9	713.7	656.9	621.3	600.2	590.4	588.8
57.5°	12389.5	9682.2	2011.4	853.2	734.8	669.9	614.8	579.1	556.4	545.0	541.8
60°	13902.9	11185.9	2645.6	841.9	705.6	622.9	566.1	533.7	512.6	501.2	499.6
62.5°	15565.6	12619.8	3403.1	872.7	692.6	577.5	520.7	491.5	473.6	462.3	462.3
65°	17341.7	14055.4	3904.4	976.5	712.1	541.8	472.0	447.7	431.5	423.4	421.7
67.5°	18538.8	14551.7	3216.6	1083.6	760.8	502.8	425.0	405.5	395.8	387.7	387.7
69°	18409.1	13924.0	2373.1	1111.1	775.4	483.4	399.0	384.4	371.5	368.2	365.0
70°	17998.7	13208.7	1988.7	1093.3	764.0	465.5	382.8	365.0	353.6	350.4	348.7
72.5°	16031.1	11455.2	1481.0	950.5	650.5	403.9	339.0	322.8	313.1	308.2	308.2
75°	13319.0	9362.7	1156.5	755.9	509.3	340.6	290.4	277.4	269.3	266.0	264.4
77.5°	7464.8	5228.0	830.5	592.1	386.1	275.8	243.3	232.0	223.8	220.6	220.6
80°	2079.5	1493.9	488.2	390.9	262.8	209.2	193.0	184.9	173.6	165.5	170.3
82.5°	783.5	647.2	279.0	235.2	167.1	139.5	134.6	128.1	123.3	111.9	111.9
85°	381.2	314.7	178.4	124.9	92.5	73.0	69.7	66.5	63.3	55.2	56.8
87.5°	131.4	139.5	77.9	45.4	27.6	17.8	14.6	8.1	8.1	8.1	8.1
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)