

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: P457103

Luminaire Tested: **GALN-SA8B-830-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35740 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 325
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

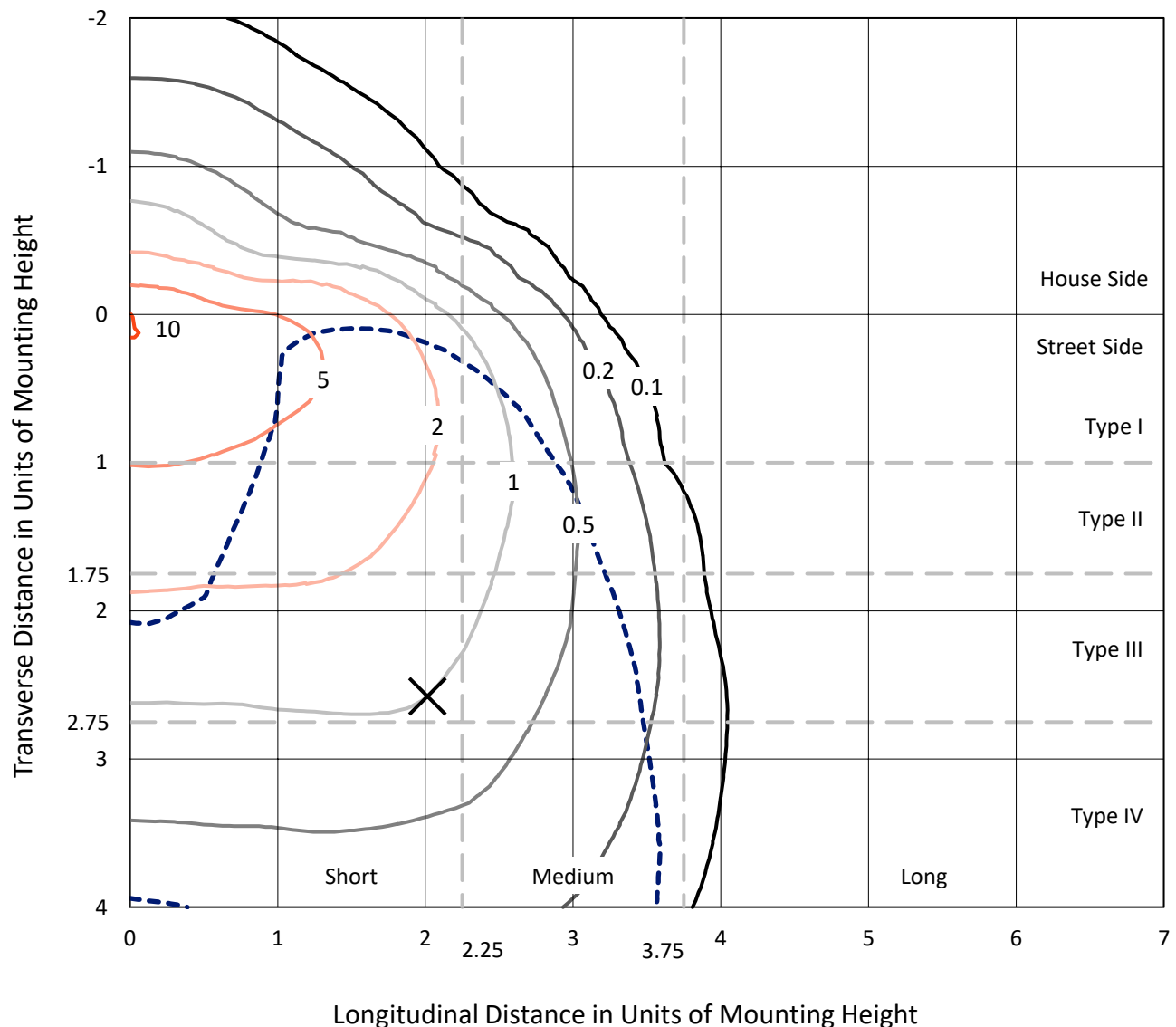


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd



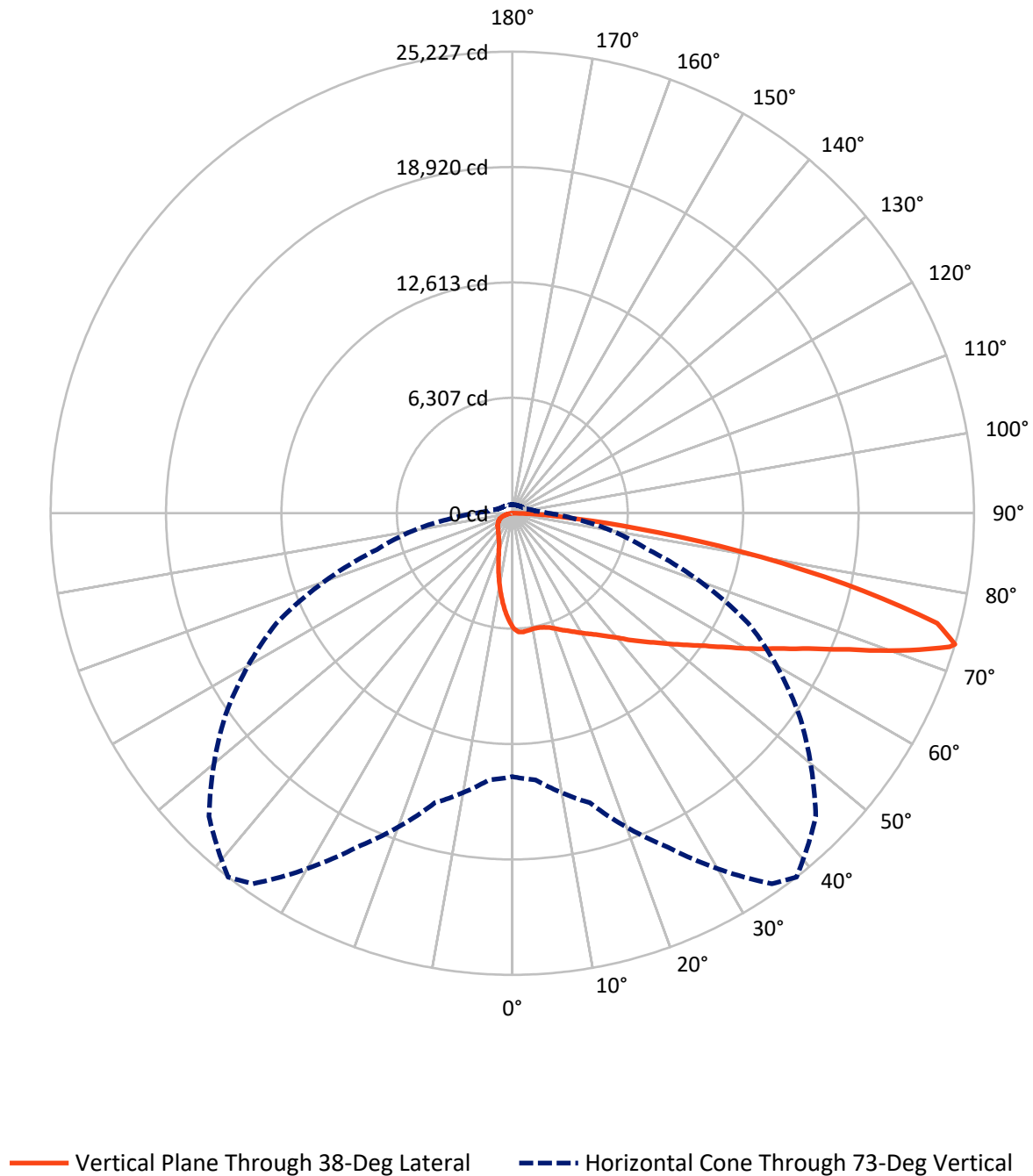
Based on 25 foot mounting height. Maximum calculated value = 10.2 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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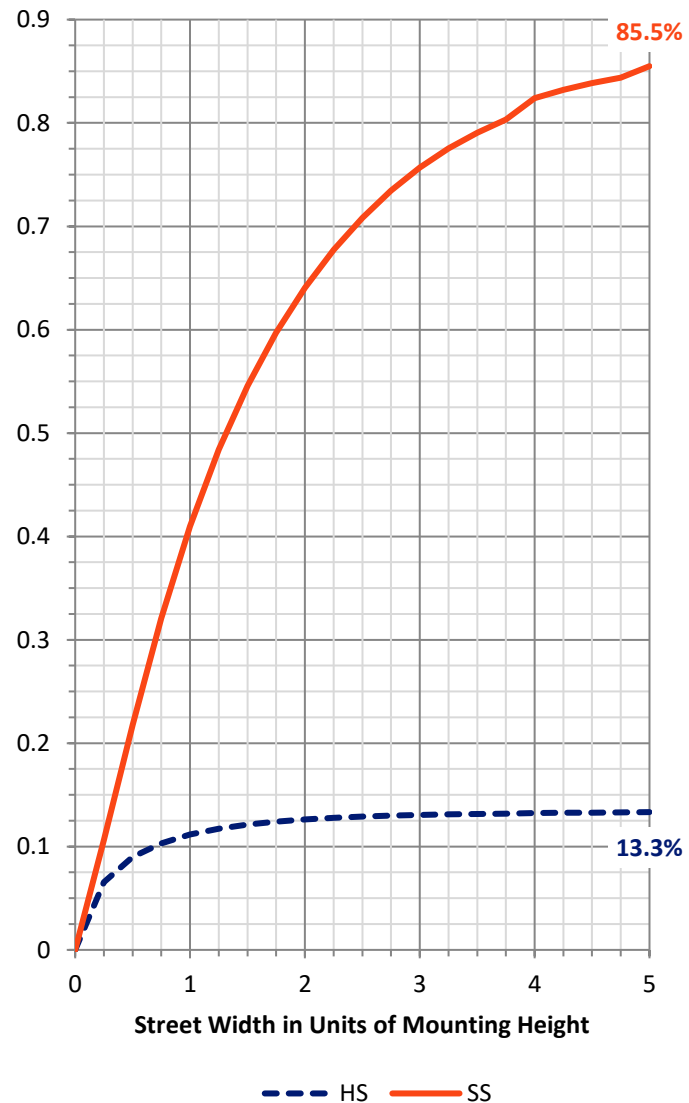
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4804.5	0.0	4804.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	30935.5	0.0	30935.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	35740.0	0.0	35740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.1	1.5
10°-20°	1405.5	3.9
20°-30°	2188.6	6.1
30°-40°	3210.1	9.0
40°-50°	4761.9	13.3
50°-60°	6746.6	18.9
60°-70°	8558.3	23.9
70°-80°	7124.1	19.9
80°-90°	1197.0	3.3
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°-90°	35740.0	100.0
0°-180°	35740.0	100.0

Coefficient of Utilization



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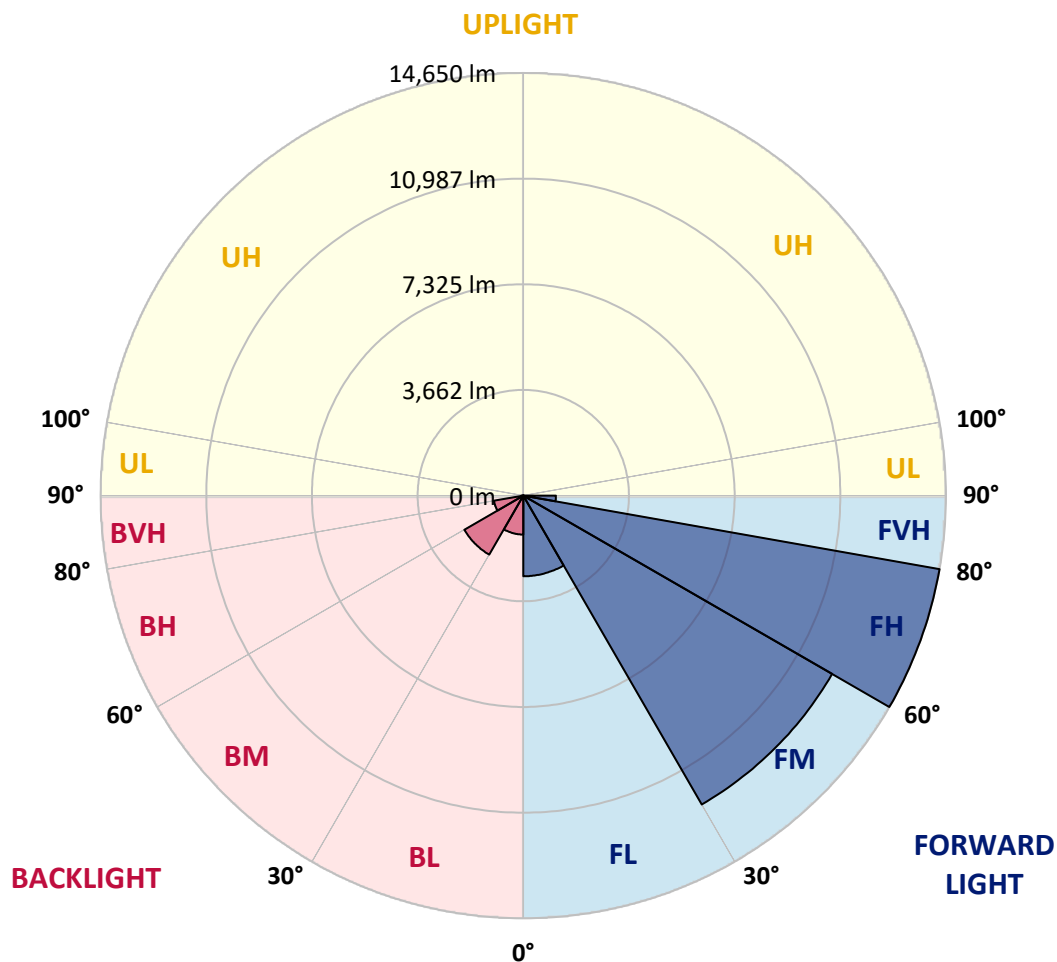
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2793.9	7.8			
FM	(30°-60°)	12359.9	34.6			
FH	(60°-80°)	14649.7	41.0			G5
FVH	(80°-90°)	1132.0	3.2			G5
BL	(0°-30°)	1348.2	3.8	B3/2500		
BM	(30°-60°)	2358.7	6.6	B2/2500		
BH	(60°-80°)	1032.7	2.9	B3/2500		G3/2500
BVH	(80°-90°)	64.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6278.9	6278.9	6278.9	6278.9	6278.9	6278.9	6278.9	6278.9	6278.9	6278.9	6278.9
2.5°	6531.2	6563.5	6547.3	6525.1	6511.0	6496.9	6476.7	6418.2	6371.8	6321.3	6242.6
5°	6579.6	6599.8	6585.7	6557.4	6525.1	6511.0	6472.7	6396.0	6321.3	6236.5	6119.5
7.5°	6551.4	6559.5	6543.3	6509.0	6480.7	6454.5	6410.1	6325.3	6234.5	6131.6	5978.2
10°	6450.5	6480.7	6480.7	6452.5	6424.2	6410.1	6365.7	6285.0	6202.2	6085.2	5903.5
12.5°	6367.7	6400.0	6426.2	6418.2	6416.2	6416.2	6381.8	6321.3	6224.4	6113.4	5897.5
15°	6311.2	6349.6	6406.1	6438.4	6458.5	6464.6	6450.5	6398.0	6299.1	6169.9	5921.7
17.5°	6299.1	6345.5	6448.4	6519.1	6571.6	6569.5	6565.5	6492.9	6383.9	6250.7	5951.9
20°	6353.6	6414.1	6557.4	6668.4	6745.1	6731.0	6708.8	6613.9	6486.8	6337.4	5980.2
22.5°	6517.1	6579.6	6737.1	6858.2	6932.8	6932.8	6866.2	6741.1	6605.9	6438.4	6018.6
25°	6751.2	6819.8	6987.3	7110.4	7144.8	7118.5	7051.9	6900.5	6745.1	6583.7	6099.3
27.5°	7037.8	7120.5	7275.9	7378.9	7368.8	7348.6	7280.0	7086.2	6930.8	6783.5	6236.5
30°	7395.0	7455.6	7617.0	7641.3	7604.9	7600.9	7504.0	7310.3	7164.9	7051.9	6432.3
32.5°	7732.1	7786.6	7915.7	7925.8	7861.3	7869.3	7778.5	7600.9	7518.1	7477.8	6761.3
35°	8089.3	8117.6	8228.6	8216.5	8174.1	8168.0	8131.7	7962.2	7988.4	8061.1	7227.5
37.5°	8388.0	8444.5	8507.1	8517.2	8515.2	8535.4	8559.6	8478.9	8630.2	8858.3	7839.1
40°	8662.5	8711.0	8803.8	8836.1	8914.8	8955.2	9037.9	9039.9	9389.1	9764.5	8591.9
42.5°	8848.2	8931.0	9104.5	9163.1	9354.8	9475.9	9599.0	9730.2	10236.8	10719.2	9479.9
45°	9009.7	9118.7	9407.3	9588.9	9849.3	9996.6	10257.0	10531.5	11260.1	11891.8	10382.1
47.5°	9253.9	9350.8	9681.8	10002.7	10396.2	10565.8	10955.3	11365.0	12317.6	13009.9	11245.9
50°	9593.0	9651.5	9988.5	10511.3	11013.8	11231.8	11746.5	12337.8	13447.9	14113.9	12004.8
52.5°	10026.9	10051.1	10319.5	11015.8	11677.8	11948.3	12630.5	13320.7	14436.9	15072.6	12606.3
55°	10539.5	10499.2	10709.1	11550.7	12436.7	12789.9	13522.6	14315.8	15548.9	15847.6	13044.2
57.5°	11046.1	10983.6	11151.1	12200.6	13373.2	13799.1	14652.8	15341.1	16541.9	16572.2	13351.0
60°	11583.0	11536.6	11736.4	12963.5	14521.6	15026.2	15815.4	16404.7	17502.6	17076.8	13399.5
62.5°	12134.0	12059.3	12343.9	13821.3	15815.4	16273.5	17038.4	17534.9	18445.2	17264.5	12933.2
65°	12668.8	12634.5	13074.5	14840.5	17288.7	17809.4	18552.2	18889.2	19200.0	16981.9	11776.7
67.5°	13238.0	13306.6	14009.0	16200.8	19210.1	19864.0	20665.3	20348.4	19416.0	15643.8	9917.9
70°	14105.9	14150.3	15236.1	17983.0	21686.6	22475.7	22863.2	20867.1	18374.5	13102.8	7455.6
72.5°	14479.2	14675.0	16332.0	19854.0	24500.1	24982.4	23601.9	19710.7	15306.7	8900.7	3917.5
73°	14396.5	14630.6	16382.5	20138.5	24720.1	25226.7	23444.5	19115.3	14229.0	7665.5	3358.4
75°	13365.1	13653.8	15726.5	19900.4	24292.2	23989.4	20913.6	16291.7	9615.2	3485.6	1529.9
77.5°	10545.6	10628.3	12460.9	16069.7	19129.4	18568.3	15651.9	10182.3	3927.6	1295.7	867.9
80°	5289.9	5594.7	7023.7	9205.4	12791.9	12608.3	9879.5	4815.6	1636.8	760.9	575.2
82.5°	2545.1	2761.0	3421.0	4488.7	7068.1	6900.5	4892.3	2631.9	1039.4	444.0	339.1
85°	1638.9	1800.3	2177.7	2141.4	2906.3	2775.2	2197.9	1992.1	615.6	232.1	236.1
87.5°	1081.8	1184.7	1420.9	1136.3	1057.6	956.7	970.8	1122.2	121.1	88.8	32.3
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°	6278.9	6278.9	6278.9	6278.9	6278.9	6278.9	6278.9	6278.9	6278.9	6278.9	6278.9
2.5°	6210.3	6184.1	6097.3	6012.5	5931.8	5855.1	5804.6	5738.0	5693.6	5705.7	5723.9
5°	6054.9	5996.4	5843.0	5693.6	5552.3	5384.8	5249.6	5140.6	5057.8	5027.6	5021.5
7.5°	5891.4	5792.5	5572.5	5316.2	5076.0	4868.1	4627.9	4508.9	4369.6	4321.2	4305.0
10°	5792.5	5659.3	5350.5	4993.3	4632.0	4286.9	4026.5	3814.6	3622.8	3586.5	3568.3
12.5°	5764.2	5588.7	5172.9	4712.7	4232.4	3808.5	3423.0	3144.5	2958.8	2916.4	2853.9
15°	5748.1	5530.1	5007.4	4430.2	3820.6	3303.9	2898.3	2573.3	2403.8	2290.8	2292.8
17.5°	5734.0	5463.5	4821.7	4121.4	3465.4	2870.0	2422.0	2129.3	1973.9	1913.3	1907.3
20°	5713.8	5384.8	4607.8	3796.4	3059.7	2474.4	2068.8	1850.8	1745.8	1695.4	1693.3
22.5°	5705.7	5308.1	4397.9	3465.4	2700.5	2169.7	1834.6	1681.2	1614.6	1580.3	1580.3
25°	5725.9	5253.6	4177.9	3150.6	2381.6	1909.3	1673.2	1568.2	1529.9	1511.7	1505.6
27.5°	5788.5	5229.4	3959.9	2835.7	2088.9	1731.7	1564.2	1491.5	1463.3	1449.1	1451.2
30°	5907.5	5227.4	3746.0	2524.9	1871.0	1596.5	1477.4	1426.9	1404.7	1396.7	1394.6
32.5°	6099.3	5271.8	3536.1	2268.6	1687.3	1483.4	1396.7	1360.3	1350.2	1344.2	1342.2
35°	6424.2	5396.9	3328.2	2034.4	1546.0	1382.5	1320.0	1301.8	1287.7	1293.7	1295.7
37.5°	6862.2	5612.9	3130.4	1850.8	1439.0	1307.9	1255.4	1239.2	1231.2	1237.2	1243.3
40°	7449.5	5923.7	2964.9	1703.4	1362.3	1245.3	1198.9	1184.7	1176.7	1186.8	1188.8
42.5°	8097.4	6282.9	2827.6	1588.4	1299.8	1192.8	1148.4	1132.3	1126.2	1132.3	1134.3
45°	8763.4	6700.7	2757.0	1505.6	1247.3	1154.5	1108.0	1089.9	1075.8	1071.7	1077.8
47.5°	9419.4	7064.0	2755.0	1455.2	1204.9	1120.2	1069.7	1049.5	1031.3	1021.3	1019.2
50°	9954.2	7352.6	2803.4	1433.0	1168.6	1081.8	1031.3	1011.2	986.9	966.8	970.8
52.5°	10357.9	7540.3	2825.6	1422.9	1148.4	1041.4	991.0	972.8	944.6	918.3	918.3
55°	10618.2	7584.7	2771.1	1412.8	1132.3	999.1	944.6	928.4	900.2	873.9	873.9
57.5°	10707.0	7447.5	2575.3	1388.6	1116.1	962.7	898.1	884.0	861.8	835.6	831.5
60°	10501.2	6983.3	2232.2	1315.9	1083.8	924.4	847.7	841.6	833.6	811.4	809.3
62.5°	9708.0	5998.4	1858.8	1221.1	1029.3	884.0	801.3	811.4	817.4	805.3	803.3
65°	8388.0	4870.1	1588.4	1089.9	956.7	827.5	750.8	777.0	793.2	793.2	789.2
67.5°	6803.7	3739.9	1338.1	976.9	865.8	750.8	694.3	714.5	726.6	722.5	732.6
70°	4835.8	2533.0	1089.9	847.7	750.8	664.0	621.6	621.6	613.6	609.5	609.5
72.5°	2345.3	1447.1	884.0	708.4	639.8	567.1	532.8	518.7	502.6	500.5	490.4
73°	1959.8	1297.8	843.6	682.2	613.6	553.0	514.7	492.5	482.4	474.3	472.3
75°	1192.8	984.9	704.4	575.2	522.7	476.3	442.0	421.8	411.7	405.7	403.7
77.5°	785.1	734.7	547.0	440.0	399.6	371.4	357.2	337.1	331.0	322.9	322.9
80°	585.3	561.1	391.5	310.8	286.6	262.4	258.3	254.3	238.2	228.1	224.0
82.5°	377.4	399.6	266.4	207.9	181.6	161.5	163.5	169.5	153.4	139.3	135.2
85°	268.4	288.6	161.5	94.9	76.7	66.6	74.7	66.6	68.6	54.5	44.4
87.5°	44.4	76.7	28.3	12.1	6.1	4.0	0.0	0.0	0.0	0.0	0.0
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)