

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: P647007

Luminaire Tested: **GALN-SA6C-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28138 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

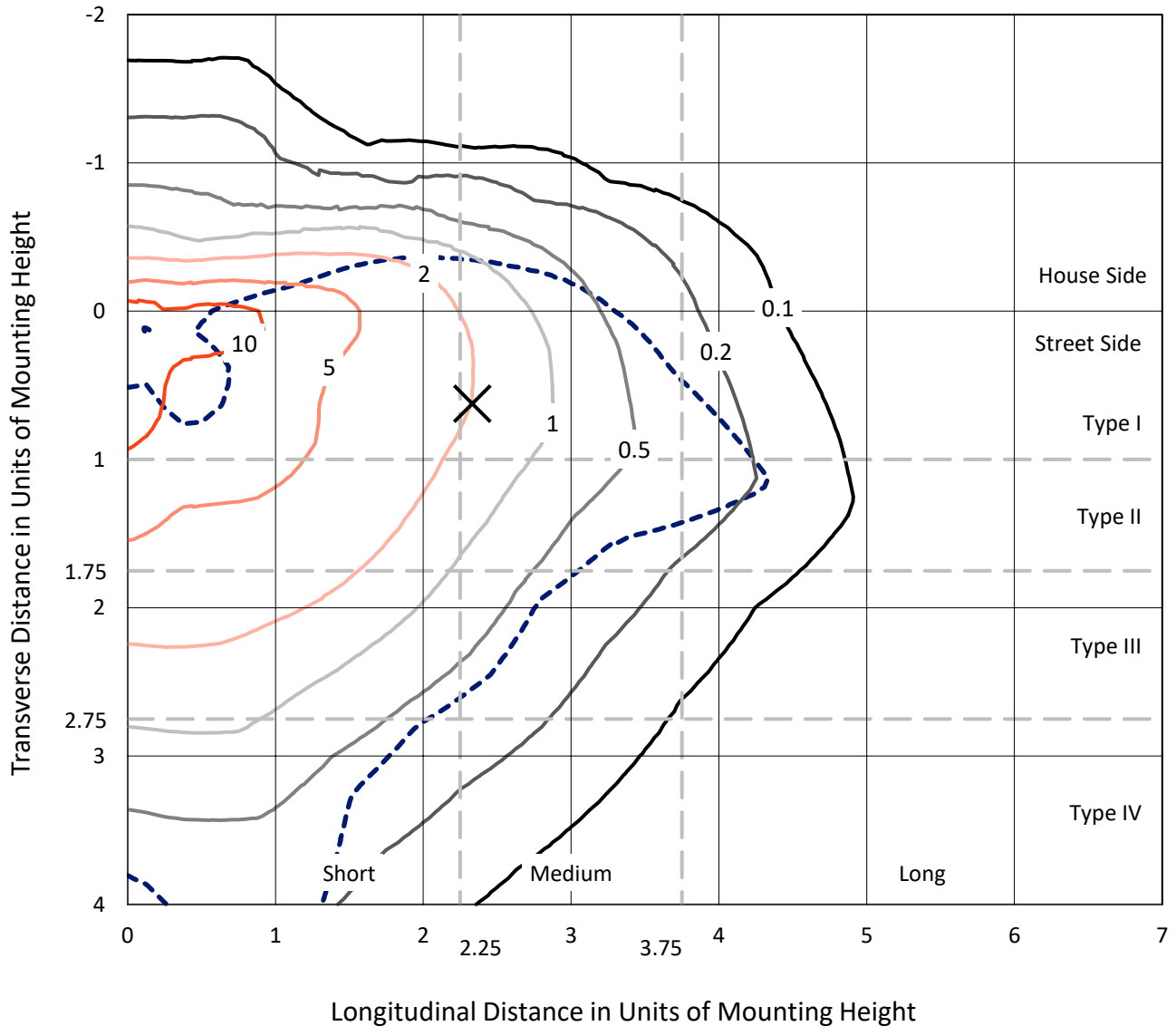
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

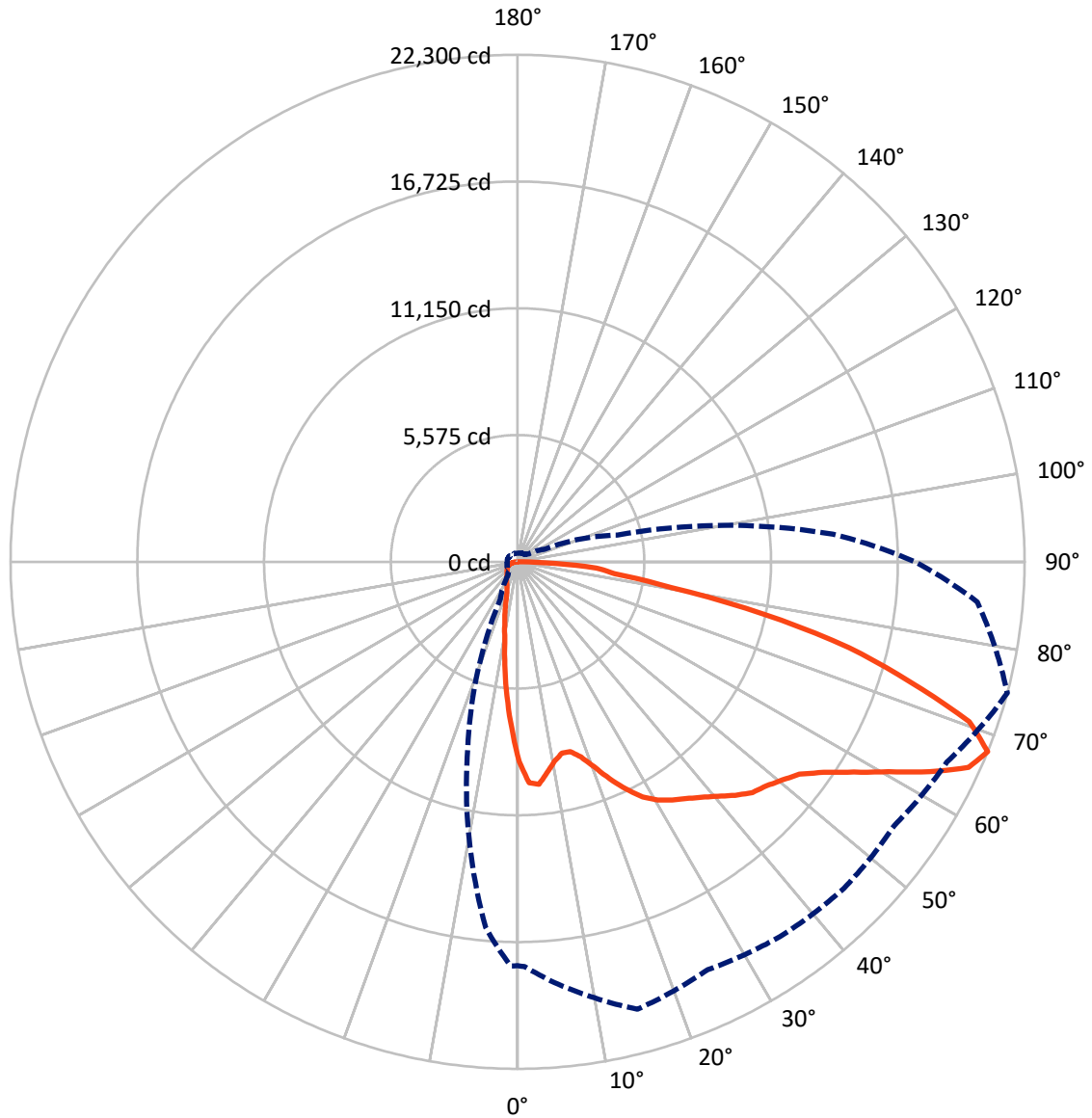
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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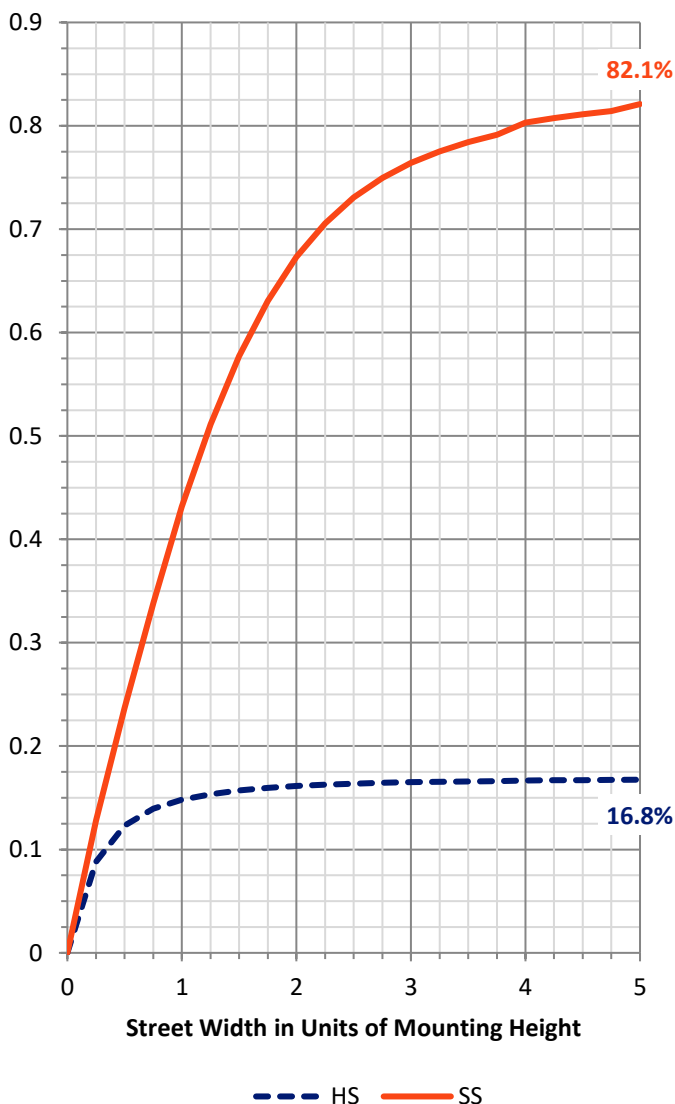
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4755.9	0.0	4755.9
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	23382.0	0.0	23382.0
	% Fixture	83.1	0.0	83.1
Total	Lumens	28138.0	0.0	28138.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.8	2.4
10°-20°	1390.6	4.9
20°-30°	2001.1	7.1
30°-40°	2882.1	10.2
40°-50°	4048.5	14.4
50°-60°	5646.3	20.1
60°-70°	6713.0	23.9
70°-80°	3953.6	14.1
80°-90°	836.0	3.0
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°	28138.0	100.0
0°-180°	28138.0	100.0

Coefficient of Utilization

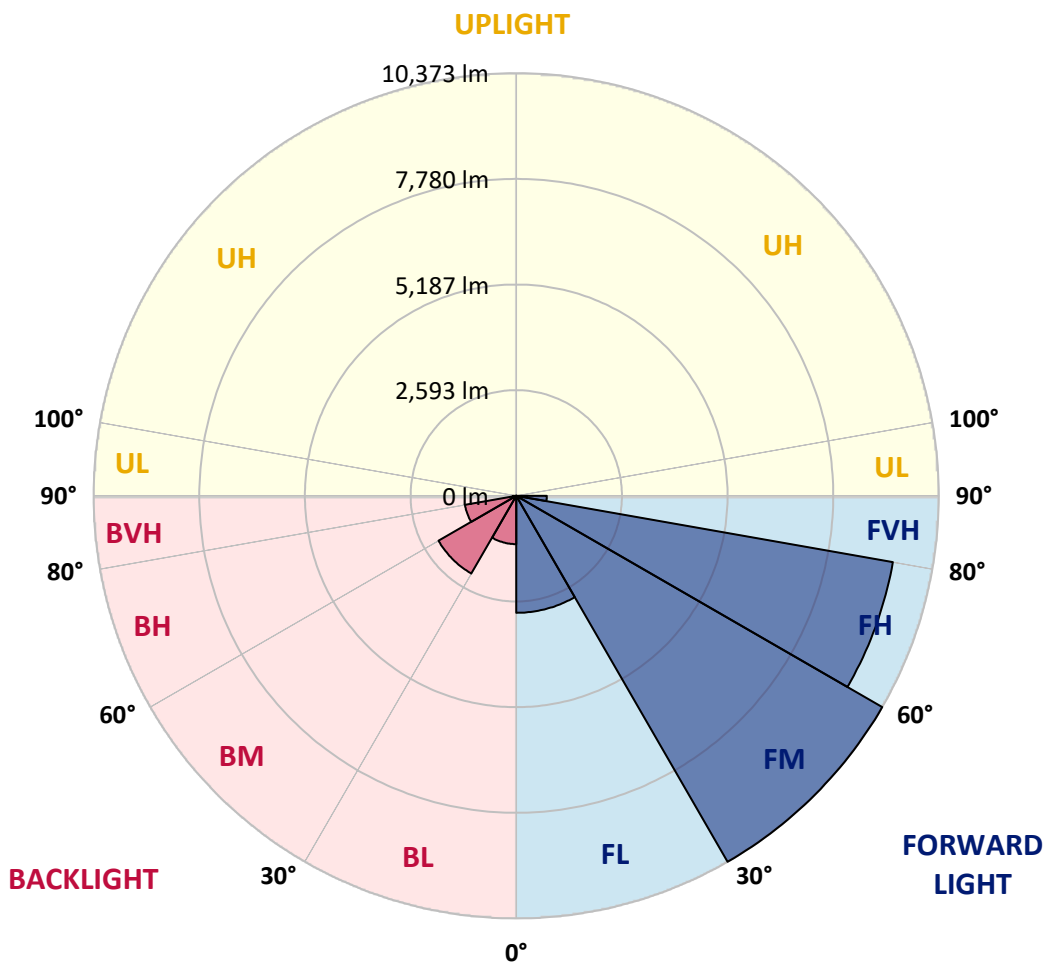


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2872.1	10.2			
FM (30°-60°)	10373.4	36.9			
FH (60°-80°)	9386.9	33.4			G4/12000
FVH (80°-90°)	749.6	2.7			G4/750
BL (0°-30°)	1186.3	4.2	B3/2500		
BM (30°-60°)	2203.5	7.8	B2/2500		
BH (60°-80°)	1279.7	4.5	B3/2500		G3/2500
BVH (80°-90°)	86.5	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°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8791.0	8791.0	8791.0	8791.0	8791.0	8791.0	8791.0	8791.0	8791.0	8791.0	8791.0
2.5°	9478.4	9491.1	9572.3	9808.6	9971.0	10030.5	10072.0	9994.4	9918.7	9734.6	9456.8
5°	9449.6	9523.6	9734.6	10265.1	10683.7	10864.2	10918.3	10685.5	10301.2	9828.5	9260.1
7.5°	8897.4	8996.7	9321.5	10211.0	10949.0	11371.2	11315.3	10894.8	10201.9	9359.4	8565.4
10°	8242.4	8352.5	8744.0	9819.4	10770.3	11351.4	11351.4	10838.9	9918.7	8917.3	8002.4
12.5°	7722.7	7838.2	8285.7	9417.1	10398.6	10949.0	11041.0	10600.7	9714.8	8637.6	7632.5
15°	7551.3	7663.2	8145.0	9173.5	10005.3	10340.9	10371.6	10227.2	9615.6	8657.4	7616.3
17.5°	7764.2	7908.6	8395.8	9245.7	9644.4	9664.3	9687.7	9801.4	9626.4	9020.1	7944.7
20°	8379.5	8534.7	9043.6	9478.4	9328.7	9123.0	9135.6	9427.9	9754.5	9619.2	8729.6
22.5°	9267.3	9402.7	9924.1	9888.0	9195.2	8771.1	8682.7	9090.5	9943.9	10366.1	9565.0
25°	10225.4	10384.2	10983.3	10496.1	9233.0	8561.8	8505.9	8892.0	10140.6	11064.5	10530.3
27.5°	11322.5	11477.7	11950.4	11109.6	9431.5	8545.6	8478.8	8874.0	10317.4	11710.4	11452.4
30°	12138.1	12280.7	12601.8	11625.6	9675.1	8653.8	8570.8	9016.5	10469.0	12152.5	12351.0
32.5°	12778.6	12926.5	13101.6	11946.8	9996.2	8850.5	8697.1	9276.4	10667.5	12489.9	13016.8
35°	13446.2	13621.3	13608.6	12231.9	10295.8	9077.9	8928.1	9651.6	10979.6	12784.0	13861.2
37.5°	14292.5	14362.9	14272.7	12488.1	10654.8	9487.5	9404.5	10209.2	11423.5	13139.5	14848.3
40°	15151.4	15292.1	14828.4	12798.4	11091.5	10257.9	10248.8	11033.8	11950.4	13556.3	15804.5
42.5°	15887.5	16006.6	15348.1	13069.1	11620.2	11198.0	11266.6	12139.9	12641.5	14039.9	16573.2
45°	16441.5	16548.0	15828.0	13330.7	12316.7	12284.3	12688.4	13325.3	13513.0	14474.8	17024.3
47.5°	16912.5	17015.3	16161.8	13727.7	13177.4	13581.6	14285.3	14561.4	14258.2	14723.8	17529.6
50°	17309.4	17340.1	16391.0	14200.5	14245.6	15171.3	15853.3	16031.9	14994.4	15081.0	17968.0
52.5°	17722.7	17683.0	16786.2	14796.0	15400.4	16679.7	17175.9	17361.8	15699.9	15521.3	18606.7
55°	18648.2	18686.1	17672.1	15546.5	16567.8	18161.1	18814.2	18635.6	16481.2	16331.4	19418.7
57.5°	19767.0	19734.5	18918.9	16721.2	17756.9	19539.6	20026.8	19739.9	17524.2	17444.8	20241.6
60°	20201.9	20245.2	19961.9	17984.3	18929.7	20746.8	21244.7	20799.1	18774.6	18738.5	20862.3
62.5°	19765.2	20008.8	20200.1	19108.4	19929.4	21634.5	22128.9	21620.1	20079.2	20340.8	21297.1
65°	18895.4	18947.8	19599.2	20061.1	20411.2	21780.7	22038.7	21768.0	21169.0	21800.5	21277.2
67.5°	17766.0	17811.1	18574.3	20373.3	19790.5	20120.7	20301.1	20221.7	20831.6	22300.3	20297.5
70°	16690.5	16654.4	17461.0	19577.5	17228.2	16726.6	16876.4	16627.4	17975.3	21078.8	18375.8
72.5°	14597.5	14727.4	15593.4	17365.4	13641.1	12825.5	13152.1	12508.0	13825.2	18052.8	14915.0
75°	11434.4	11465.0	12910.3	14574.0	10290.4	9003.9	9446.0	9177.1	10589.9	15059.4	10299.4
77.5°	7917.6	7849.0	9402.7	11131.2	7338.4	6591.4	6598.7	6470.5	7394.3	11087.9	6997.4
80°	5028.8	4924.1	5885.9	6876.5	5043.2	5395.1	5218.3	5212.8	4814.1	6840.4	4231.3
82.5°	2717.4	2832.9	3718.9	4310.6	3617.8	4169.9	3821.7	3709.8	3303.8	4281.8	2706.6
85°	1237.8	1346.1	1983.0	2932.1	2748.1	2778.7	1856.7	2190.5	2733.6	3477.1	1445.3
87.5°	120.9	155.2	409.6	1384.0	938.3	739.8	276.1	532.3	687.5	1236.0	115.5
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°	8791.0	8791.0	8791.0	8791.0	8791.0	8791.0	8791.0	8791.0	8791.0	8791.0	8791.0
2.5°	9343.1	9249.3	8929.9	8666.5	8386.8	8173.8	7896.0	7710.1	7582.0	7388.9	7365.4
5°	8913.7	8684.5	8128.7	7562.1	7073.2	6705.1	6331.6	5988.8	5786.7	5723.5	5642.3
7.5°	8190.1	7803.9	7089.4	6439.9	5878.7	5330.1	4907.9	4608.4	4408.1	4290.8	4150.1
10°	7594.6	7147.1	6277.5	5481.7	5019.8	4678.7	4307.0	3985.9	3738.7	3527.6	3412.1
12.5°	7194.0	6688.9	5710.9	5064.9	4707.6	4344.9	3910.1	3549.2	3184.7	2944.8	2841.9
15°	7073.2	6539.1	5535.8	4857.4	4344.9	3870.4	3383.2	2912.3	2551.4	2324.0	2248.2
17.5°	7369.1	6723.2	5534.0	4581.3	3919.1	3352.6	2728.2	2286.1	1916.2	1746.6	1692.5
20°	7921.2	7076.8	5550.3	4308.8	3457.2	2659.7	1984.8	1622.1	1445.3	1373.1	1346.1
22.5°	8691.7	7616.3	5599.0	4040.0	2952.0	2042.5	1486.8	1302.8	1239.6	1227.0	1221.6
25°	9640.8	8283.9	5763.2	3798.3	2526.1	1559.0	1243.2	1160.2	1124.2	1111.5	1109.7
27.5°	10514.1	9146.4	5961.7	3590.7	2114.7	1344.3	1124.2	1053.8	1017.7	1015.9	1019.5
30°	11302.6	9868.1	6127.7	3358.0	1802.5	1194.5	1046.6	976.2	941.9	940.1	950.9
32.5°	11984.7	10461.8	6250.4	3128.8	1629.3	1102.5	976.2	900.4	871.5	866.1	871.5
35°	12713.6	11053.6	6194.5	2950.2	1530.1	1026.7	923.9	849.9	815.6	799.4	799.4
37.5°	13545.5	11663.5	6098.8	2802.2	1485.0	963.6	878.8	806.6	772.3	756.1	754.3
40°	14453.1	12273.4	5967.1	2670.5	1439.9	925.7	848.1	772.3	730.8	714.6	711.0
42.5°	15254.2	12794.8	5858.8	2583.9	1365.9	932.9	821.0	747.0	694.7	673.1	671.3
45°	15950.7	13319.9	5839.0	2533.3	1304.6	922.1	813.8	727.2	665.8	642.4	638.8
47.5°	16495.6	13866.7	5952.7	2504.5	1237.8	864.3	860.7	714.6	640.6	615.3	611.7
50°	17159.7	14642.6	6212.5	2444.9	1176.5	810.2	909.4	712.8	620.7	588.2	579.2
52.5°	18043.8	15653.0	6564.4	2338.5	1088.1	759.7	867.9	712.8	597.3	564.8	554.0
55°	19380.8	16941.3	6909.0	2188.7	963.6	692.9	783.1	691.1	563.0	534.1	526.9
57.5°	20266.8	17883.3	7129.1	1981.2	808.4	644.2	674.9	656.8	528.7	498.0	498.0
60°	20311.9	18135.8	7024.4	1719.5	711.0	599.1	586.4	662.2	498.0	465.5	461.9
62.5°	19792.3	17517.0	6479.6	1485.0	658.6	550.4	530.5	581.0	467.4	434.9	429.5
65°	18980.3	15938.1	5534.0	1373.1	629.8	507.0	478.2	476.4	434.9	404.2	397.0
67.5°	17488.1	13928.0	4547.0	1308.2	615.3	458.3	431.3	422.2	397.0	371.7	368.1
70°	15288.5	11665.3	3646.7	1281.1	608.1	407.8	386.2	375.3	353.7	333.8	332.0
72.5°	11894.5	9462.2	3009.7	1263.1	604.5	360.9	337.4	323.0	310.4	292.3	292.3
75°	8543.7	6961.3	2297.0	1138.6	559.4	310.4	285.1	276.1	258.0	243.6	247.2
77.5°	5386.1	4687.7	1512.1	837.3	433.1	249.0	227.4	221.9	207.5	187.7	200.3
80°	3637.7	3296.6	882.4	526.9	272.5	182.2	175.0	173.2	157.0	135.3	137.1
82.5°	2475.6	2428.7	458.3	299.5	157.0	106.5	102.9	106.5	88.4	72.2	72.2
85°	967.2	1320.8	216.5	117.3	50.5	16.2	23.5	25.3	14.4	7.2	9.0
87.5°	18.0	135.3	5.4	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8791.0	8791.0	8791.0	8791.0	8791.0	8791.0	8791.0	8791.0	8791.0	8791.0	8791.0
2.5°	7329.4	7313.1	7340.2	7224.7	7248.2	7291.5	7313.1	7325.7	7504.4	7462.9	7576.6
5°	5718.1	5701.8	5806.5	5820.9	5875.1	5864.2	5916.6	5929.2	5994.2	6017.6	6176.4
7.5°	4159.1	4229.5	4348.5	4409.9	4501.9	4530.8	4503.7	4570.5	4435.1	4532.6	4561.4
10°	3341.7	3256.9	3206.4	3347.1	3365.2	3498.7	3444.6	3401.3	3480.7	3484.3	3560.1
12.5°	2782.4	2600.1	2479.2	2518.9	2562.2	2620.0	2629.0	2715.6	2773.3	2827.5	2872.6
15°	2181.5	2118.3	2008.2	1954.1	2015.5	2038.9	2094.9	2167.0	2228.4	2244.6	2306.0
17.5°	1674.4	1685.3	1667.2	1634.7	1672.6	1690.7	1694.3	1696.1	1712.3	1701.5	1791.7
20°	1347.9	1385.8	1430.9	1438.1	1450.7	1459.7	1443.5	1382.2	1384.0	1421.8	1450.7
22.5°	1219.8	1227.0	1277.5	1293.8	1333.4	1317.2	1270.3	1241.4	1237.8	1246.8	1261.3
25°	1118.8	1129.6	1165.7	1190.9	1221.6	1192.7	1158.4	1131.4	1127.8	1136.8	1151.2
27.5°	1028.5	1044.8	1077.3	1102.5	1131.4	1104.3	1071.8	1048.4	1046.6	1044.8	1053.8
30°	956.4	974.4	997.9	1026.7	1046.6	1023.1	992.4	979.8	978.0	974.4	978.0
32.5°	884.2	913.0	936.5	950.9	970.8	952.7	929.3	922.1	909.4	898.6	893.2
35°	803.0	833.7	869.7	887.8	907.6	889.6	873.4	842.7	821.0	819.2	822.8
37.5°	756.1	768.7	797.6	828.2	848.1	839.1	808.4	777.7	772.3	772.3	775.9
40°	714.6	720.0	732.6	772.3	808.4	781.3	743.4	734.4	734.4	732.6	734.4
42.5°	673.1	678.5	678.5	709.1	766.9	723.6	694.7	694.7	694.7	696.5	701.9
45°	635.2	637.0	635.2	656.8	711.0	674.9	655.0	660.4	664.0	667.6	671.3
47.5°	602.7	604.5	602.7	620.7	647.8	633.4	622.5	629.8	637.0	642.4	646.0
50°	573.8	572.0	575.6	586.4	599.1	602.7	595.5	606.3	609.9	617.1	626.1
52.5°	548.6	546.7	550.4	555.8	573.8	573.8	573.8	582.8	590.1	597.3	609.9
55°	519.7	521.5	526.9	534.1	557.6	554.0	555.8	563.0	570.2	581.0	588.2
57.5°	492.6	496.2	503.4	514.3	537.7	535.9	537.7	541.3	550.4	555.8	563.0
60°	461.9	469.2	478.2	485.4	508.9	507.0	516.1	523.3	528.7	528.7	532.3
62.5°	431.3	442.1	451.1	456.5	481.8	483.6	496.2	501.6	505.2	501.6	507.0
65°	400.6	416.8	420.4	427.7	452.9	454.7	469.2	481.8	478.2	474.6	483.6
67.5°	369.9	389.8	388.0	397.0	422.2	425.8	438.5	460.1	452.9	449.3	456.5
70°	335.6	350.1	351.9	357.3	391.6	386.2	406.0	425.8	420.4	422.2	422.2
72.5°	297.7	310.4	310.4	321.2	357.3	348.3	364.5	386.2	386.2	384.3	384.3
75°	252.6	259.8	267.1	283.3	321.2	310.4	321.2	341.0	344.6	341.0	341.0
77.5°	203.9	214.7	218.3	240.0	267.1	265.3	276.1	285.1	292.3	288.7	288.7
80°	144.4	155.2	169.6	193.1	209.3	214.7	220.1	227.4	231.0	231.0	234.6
82.5°	81.2	97.4	110.1	133.5	140.7	167.8	166.0	171.4	166.0	146.2	162.4
85°	18.0	34.3	48.7	61.4	70.4	97.4	102.9	115.5	95.6	88.4	88.4
87.5°	0.0	0.0	0.0	0.0	0.0	14.4	28.9	39.7	34.3	28.9	28.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8791.0	8791.0	8791.0	8791.0	8791.0	8791.0	8791.0	8791.0	8791.0	8791.0
2.5°	7672.2	7829.2	8018.7	8345.3	8574.4	8821.6	9070.6	9335.9	9406.3	9478.4
5°	6219.7	6528.3	6696.1	7134.5	7594.6	8179.2	8657.4	9180.7	9399.1	9449.6
7.5°	4711.2	4920.5	5360.8	5804.7	6374.9	6988.4	7720.9	8536.5	8791.0	8897.4
10°	3735.1	4020.2	4406.3	4882.6	5382.5	6042.9	6869.3	7822.0	8182.9	8242.4
12.5°	3179.3	3496.9	3917.3	4420.7	4893.5	5391.5	6225.1	7208.5	7594.6	7722.7
15°	2542.4	2926.7	3412.1	3942.6	4456.8	5001.7	5846.2	6955.9	7401.5	7551.3
17.5°	1997.4	2307.8	2832.9	3408.5	4018.4	4707.6	5766.8	7076.8	7625.3	7764.2
20°	1528.3	1750.2	2192.3	2800.4	3515.0	4417.1	5786.7	7533.3	8190.1	8379.5
22.5°	1320.8	1434.5	1703.3	2282.5	3081.9	4164.5	5867.9	8159.4	8951.6	9267.3
25°	1196.3	1255.9	1407.4	1786.3	2668.7	3919.1	6053.7	9002.1	10016.1	10225.4
27.5°	1089.9	1133.2	1227.0	1499.4	2293.3	3691.8	6270.2	9936.7	11010.3	11322.5
30°	988.8	1046.6	1135.0	1331.6	2053.4	3484.3	6542.7	10694.5	11847.6	12138.1
32.5°	911.2	969.0	1050.2	1214.4	1849.5	3265.9	6705.1	11360.4	12531.4	12778.6
35°	848.1	896.8	981.6	1120.6	1694.3	3099.9	6672.6	11889.1	13193.6	13446.2
37.5°	803.0	844.5	929.3	1032.1	1577.0	2926.7	6656.4	12587.4	14000.2	14292.5
40°	761.5	804.8	882.4	974.4	1459.7	2722.8	6665.4	13280.2	14859.1	15151.4
42.5°	729.0	777.7	840.9	958.2	1338.9	2558.6	6665.4	13882.9	15606.1	15887.5
45°	701.9	754.3	815.6	956.4	1243.2	2434.1	6620.3	14400.8	16201.5	16441.5
47.5°	678.5	736.2	824.6	923.9	1219.8	2343.9	6580.6	14815.8	16686.9	16912.5
50°	662.2	730.8	877.0	886.0	1227.0	2316.8	6771.9	15339.0	17114.6	17309.4
52.5°	649.6	732.6	875.2	830.0	1214.4	2334.9	7170.6	16156.4	17708.2	17722.7
55°	624.3	730.8	830.0	766.9	1162.1	2365.5	7683.0	17343.7	18637.4	18648.2
57.5°	599.1	711.0	770.5	712.8	1055.6	2365.5	8300.1	18467.8	19758.0	19767.0
60°	573.8	739.8	676.7	665.8	916.7	2322.2	8951.6	18962.2	20109.8	20201.9
62.5°	548.6	745.2	604.5	624.3	815.6	2217.6	9436.9	18415.5	19633.5	19765.2
65°	519.7	600.9	557.6	581.0	763.3	2042.5	9283.6	17414.1	18738.5	18895.4
67.5°	485.4	508.9	507.0	535.9	745.2	1784.5	8475.2	16147.4	17775.0	17766.0
70°	443.9	456.5	461.9	492.6	711.0	1584.2	7062.3	14503.6	16488.4	16690.5
72.5°	400.6	411.4	416.8	443.9	676.7	1470.6	5481.7	12239.2	14281.7	14597.5
75°	353.7	360.9	368.1	391.6	640.6	1302.8	3904.7	9343.1	10938.1	11434.4
77.5°	305.0	305.0	314.0	337.4	539.5	1075.4	2620.0	6553.5	7410.6	7917.6
80°	247.2	249.0	245.4	270.7	397.0	736.2	1488.6	4377.4	4931.3	5028.8
82.5°	189.5	184.1	185.9	198.5	295.9	501.6	794.0	2719.2	2771.5	2717.4
85°	119.1	119.1	115.5	129.9	189.5	261.6	433.1	1665.4	1301.0	1237.8
87.5°	48.7	39.7	45.1	52.3	90.2	106.5	169.6	342.8	131.7	120.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)