

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: P652451

Luminaire Tested: **GALN-SA6B-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20379.1 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

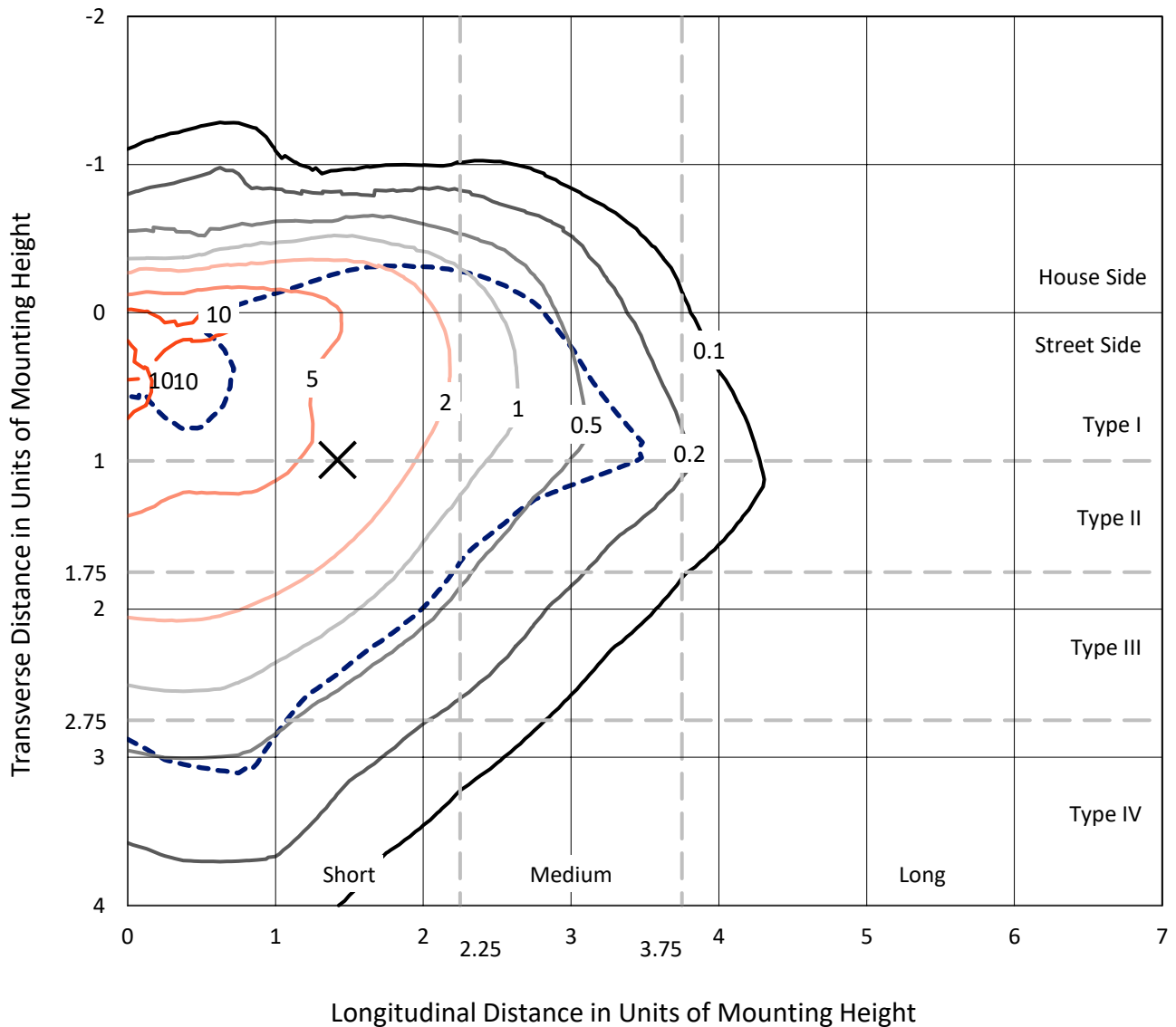
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

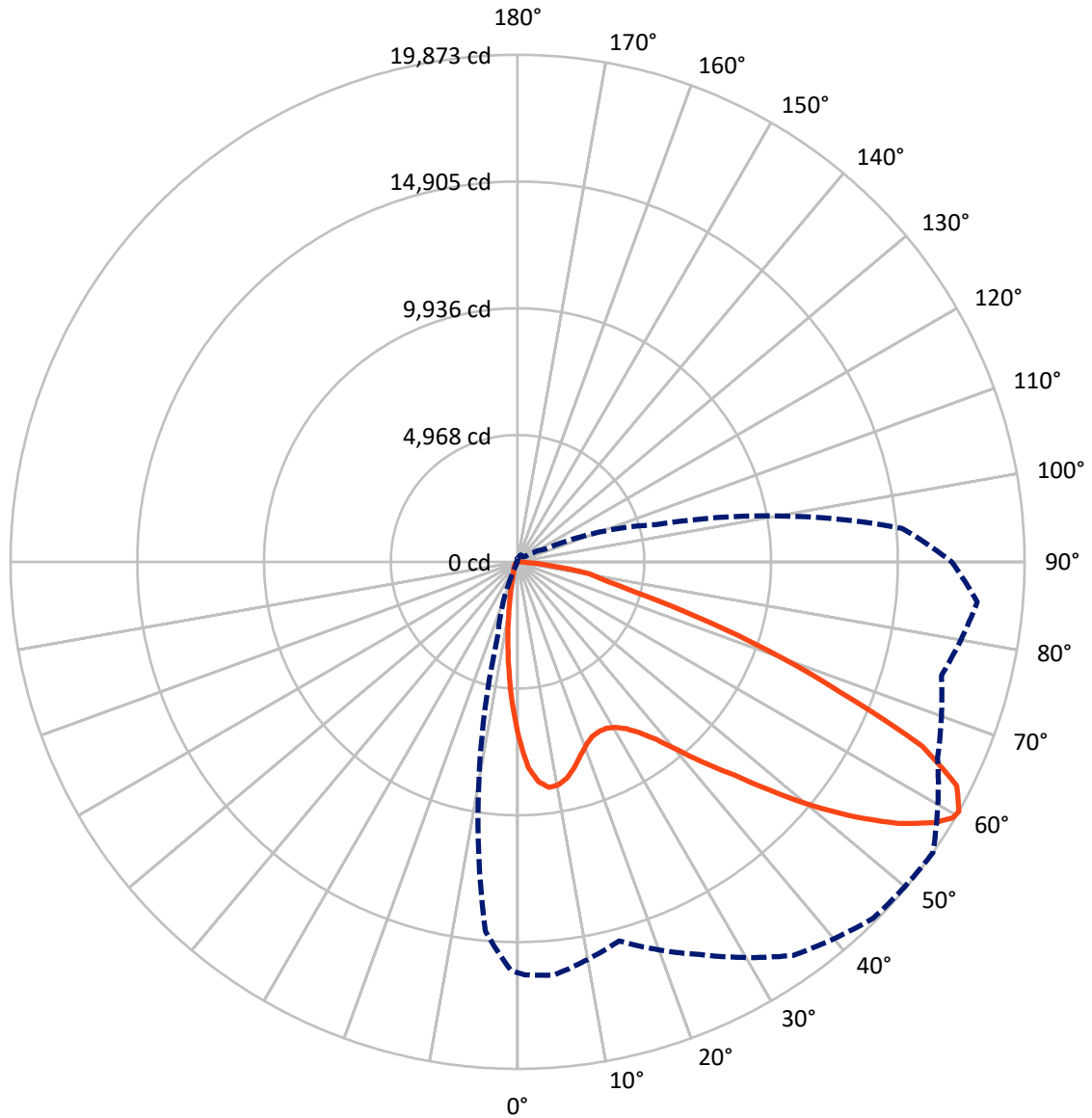
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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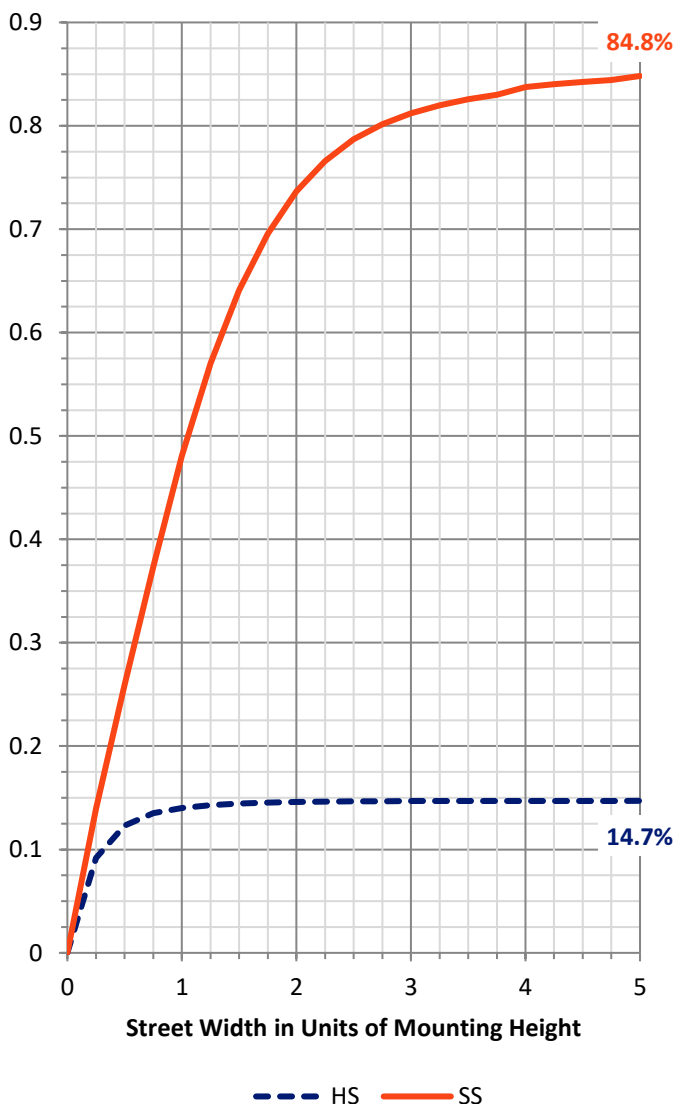
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3024.4	0.0	3024.4
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	17354.7	0.0	17354.7
	% Fixture	85.2	0.0	85.2
Total	Lumens	20379.1	0.0	20379.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.0	2.5
10°-20°	1006.2	4.9
20°-30°	1489.4	7.3
30°-40°	2220.1	10.9
40°-50°	3251.4	16.0
50°-60°	4694.0	23.0
60°-70°	4937.8	24.2
70°-80°	2031.3	10.0
80°-90°	237.9	1.2
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°	20379.1	100.0
0°-180°	20379.1	100.0

Coefficient of Utilization



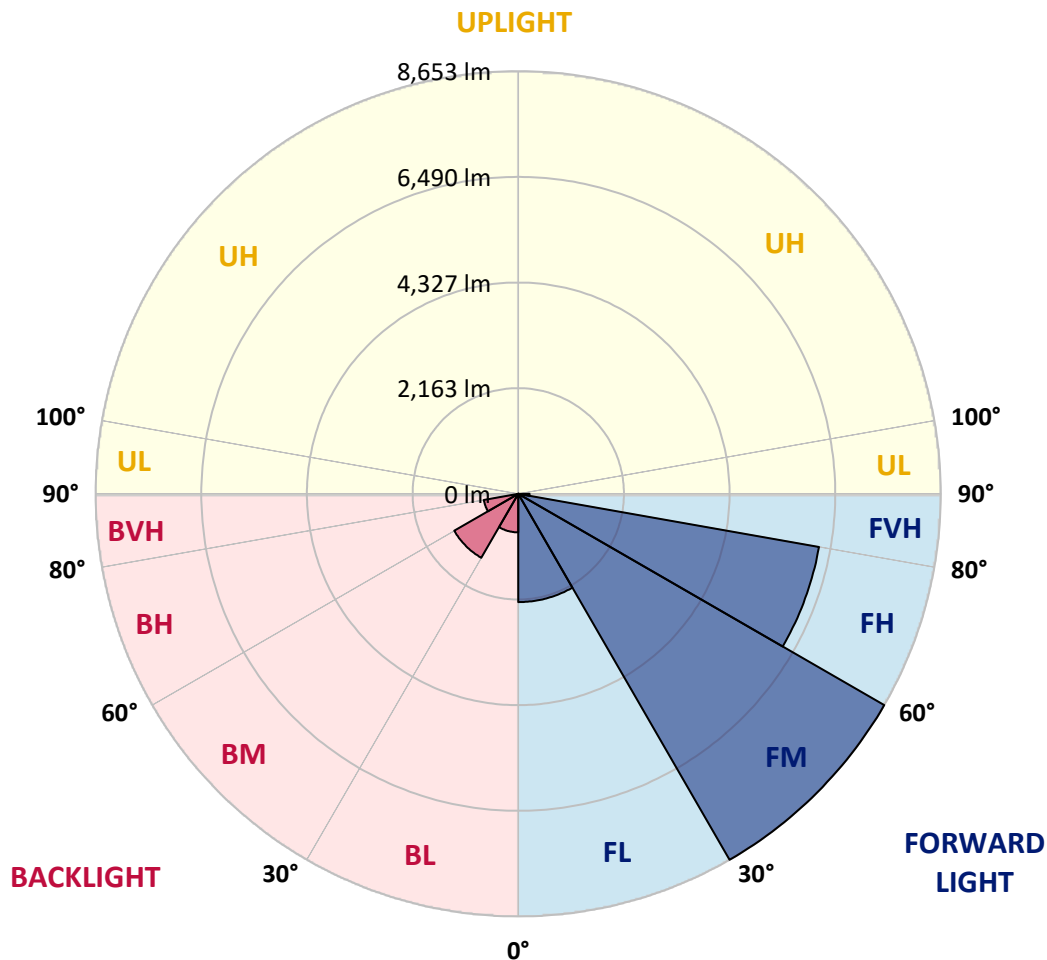
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2217.5	10.9			
FM (30°-60°)	8653.0	42.5			
FH (60°-80°)	6253.2	30.7			G3/7500
FVH (80°-90°)	230.9	1.1			G3/500
BL (0°-30°)	789.1	3.9	B2/1000		
BM (30°-60°)	1512.5	7.4	B2/2500		
BH (60°-80°)	715.9	3.5	B2/1000		G2/1000
BVH (80°-90°)	7.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6900.3	6900.3	6900.3	6900.3	6900.3	6900.3	6900.3	6900.3	6900.3	6900.3	6900.3
2.5°	7538.7	7526.2	7637.5	7819.5	8003.0	8098.7	8079.9	8072.1	7919.9	7808.5	7574.8
5°	7523.1	7587.3	7786.6	8279.1	8652.5	8832.9	8886.2	8661.9	8365.4	7935.6	7405.4
7.5°	7072.9	7152.9	7477.6	8247.8	8911.2	9303.4	9289.3	8930.1	8318.3	7653.3	6897.2
10°	6514.5	6608.6	6989.7	7924.6	8785.8	9303.4	9331.7	8876.8	8116.0	7262.6	6467.4
12.5°	6120.7	6232.1	6654.1	7623.4	8462.6	8972.5	9005.3	8676.0	7963.8	7112.1	6233.7
15°	5987.4	6092.5	6520.7	7471.3	8119.1	8393.6	8385.8	8351.3	7904.2	7148.2	6246.2
17.5°	6216.4	6302.7	6785.8	7540.3	7797.6	7769.3	7810.1	7976.4	7916.8	7450.9	6641.5
20°	6807.7	6895.6	7414.8	7752.1	7551.3	7372.5	7391.3	7668.9	8032.8	8020.3	7259.5
22.5°	7621.9	7770.9	8241.5	8163.1	7518.4	7126.2	7086.9	7447.7	8230.5	8676.0	8094.0
25°	8652.5	8803.0	9170.1	8818.7	7679.9	7068.2	7032.1	7380.3	8470.5	9316.0	9033.6
27.5°	9518.4	9632.8	9998.3	9457.1	7918.4	7093.2	7033.6	7389.7	8665.0	9860.3	9825.7
30°	10211.7	10296.4	10511.2	9755.2	8123.8	7203.1	7134.0	7527.8	8751.3	10125.4	10467.3
32.5°	10770.1	10912.8	10980.3	10073.6	8418.7	7410.1	7292.5	7792.9	8961.4	10453.2	11140.2
35°	11408.5	11573.2	11486.9	10377.9	8807.7	7733.2	7588.9	8222.6	9279.9	10756.0	11921.4
37.5°	12217.9	12407.7	12070.5	10697.9	9218.7	8219.5	8152.1	8826.5	9763.0	11188.9	12759.1
40°	13055.5	13165.4	12636.7	11086.9	9723.8	8927.0	8991.3	9723.8	10395.2	11708.1	13650.0
42.5°	13709.6	13813.2	13218.7	11413.2	10239.8	9766.2	10034.4	10806.2	11119.9	12239.8	14315.2
45°	14210.0	14297.8	13621.8	11769.3	10936.4	10981.9	11488.5	11921.4	11846.2	12564.5	14828.1
47.5°	14599.0	14674.4	13932.4	12152.0	11979.5	12468.8	13243.7	13427.3	12599.1	12915.9	15292.4
50°	14759.0	14781.0	14029.6	12639.8	13163.8	14363.8	15171.6	15060.2	13461.8	13306.5	15786.5
52.5°	14967.7	14963.0	14307.3	13104.1	14277.5	16057.9	16864.2	16611.6	14437.4	13891.6	16341.8
55°	15515.1	15521.4	14901.8	13763.0	15226.5	17425.7	18288.4	18104.9	15466.5	14879.8	16989.6
57.5°	16180.2	16203.7	15747.3	14533.2	16133.2	18417.1	19351.9	19281.4	16857.8	15979.4	17601.4
59°	16266.5	16313.5	16147.3	15075.9	16671.1	18721.3	19715.8	19784.9	17603.0	16704.1	17932.3
60°	16109.6	16188.1	16263.3	15383.3	16986.4	18831.2	19737.8	19872.7	18162.9	17196.7	18082.9
62.5°	15425.7	15549.6	15927.6	16329.2	17380.2	18489.2	19036.6	19318.9	18856.2	18490.7	18097.1
65°	14530.0	14594.4	15140.2	16497.1	16616.3	16892.3	17061.8	17424.1	18023.3	18989.6	17449.2
67.5°	13061.8	13251.6	13919.8	15522.9	14362.2	14036.0	13993.6	13632.8	15188.9	17800.6	15852.3
70°	10790.5	10875.1	11698.6	12726.1	10839.1	10337.2	10537.9	10403.0	11774.0	15323.8	12759.1
72.5°	8159.9	8351.3	9156.0	10144.2	7375.6	6724.6	7278.4	7228.1	8843.8	12315.2	8765.4
75°	5805.4	5929.3	6955.2	7938.7	5165.4	4376.4	4575.6	4762.3	6174.0	9723.8	5179.6
77.5°	3988.9	4095.7	4865.9	5250.1	3767.8	3609.4	3301.9	3482.3	4045.5	5769.3	2818.8
80°	2406.3	2401.6	2908.2	3002.3	2624.3	3047.8	2556.8	2870.6	2445.5	2469.0	1091.8
82.5°	1562.3	1546.7	1778.8	1938.8	1460.4	1535.7	1030.6	1485.5	1593.7	688.6	345.1
85°	699.6	729.4	854.9	1127.9	640.0	340.4	210.2	456.5	679.2	346.7	0.0
87.5°	72.2	56.4	150.6	274.5	87.8	9.4	31.4	15.7	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6900.3	6900.3	6900.3	6900.3	6900.3	6900.3	6900.3	6900.3	6900.3	6900.3	6900.3
2.5°	7466.6	7375.6	7104.3	6850.1	6632.0	6365.4	6192.9	5921.5	5756.8	5706.6	5714.4
5°	7167.0	6905.0	6388.9	5976.4	5516.8	5254.8	4856.4	4473.7	4266.6	4189.8	4155.2
7.5°	6539.5	6258.7	5636.0	4988.1	4495.6	4036.0	3739.6	3402.3	3171.7	2981.9	2949.0
10°	6073.6	5705.0	4933.3	4236.8	3847.8	3502.7	3206.2	2869.0	2597.6	2381.1	2321.6
12.5°	5794.4	5381.9	4520.7	3937.2	3568.6	3214.0	2828.2	2437.6	2159.9	1926.2	1818.0
15°	5744.3	5265.8	4404.7	3722.4	3267.5	2839.2	2326.2	1904.3	1618.8	1397.7	1330.2
17.5°	6047.0	5474.4	4387.4	3498.0	2873.7	2266.7	1733.3	1383.5	1061.9	938.1	889.4
20°	6586.6	5843.1	4385.8	3237.6	2469.0	1745.8	1217.3	902.0	771.8	712.2	683.9
22.5°	7322.3	6345.0	4469.0	3013.3	2048.6	1287.8	869.0	718.4	643.1	594.5	583.5
25°	8221.1	7088.5	4672.8	2861.2	1727.1	1010.2	716.9	614.9	552.1	530.2	520.7
27.5°	9019.5	7800.7	4897.2	2704.3	1496.5	894.1	665.1	563.1	512.9	495.7	481.6
30°	9708.1	8446.9	5005.5	2497.3	1311.4	818.8	674.5	602.3	536.5	484.7	461.2
32.5°	10282.2	8942.6	5076.0	2309.0	1154.5	669.8	533.4	465.9	436.1	417.2	401.6
35°	11000.6	9479.1	5033.6	2202.3	1074.5	610.2	486.3	401.6	351.4	313.7	298.1
37.5°	11753.6	10015.6	4960.0	2114.5	1038.4	566.2	462.7	381.1	326.3	287.0	266.7
40°	12533.2	10512.8	4873.7	2032.9	1005.5	538.1	448.6	363.9	309.0	266.7	244.7
42.5°	13246.9	10997.5	4839.2	1979.5	952.2	542.7	437.7	356.1	291.7	247.8	229.0
45°	13824.2	11457.1	4886.2	1951.4	894.1	534.9	440.8	346.7	277.6	235.3	216.5
47.5°	14440.6	12106.5	5038.3	1923.1	837.6	497.3	464.3	345.1	271.4	227.4	207.1
50°	15157.4	12937.9	5386.6	1854.1	768.6	456.5	494.1	343.5	263.5	218.1	197.6
52.5°	16112.7	13882.2	5745.8	1733.3	668.3	417.2	472.1	338.8	247.8	207.1	186.7
55°	16970.8	14876.7	6050.2	1590.6	541.2	360.8	425.1	318.4	221.2	188.2	169.4
57.5°	17325.3	15438.2	6040.7	1392.9	432.9	316.9	349.8	291.7	192.9	166.3	150.6
59°	17195.1	15367.7	5838.4	1247.0	395.3	293.3	290.2	288.6	180.4	150.6	138.0
60°	17011.6	15110.4	5620.3	1174.9	371.7	277.6	266.7	285.5	169.4	141.2	128.6
62.5°	16308.8	14043.8	4897.2	1052.5	340.4	235.3	213.4	241.5	150.6	122.4	111.3
65°	15290.8	12404.6	4145.8	1018.0	331.0	194.5	177.3	172.6	128.6	103.5	94.1
67.5°	13305.0	10497.1	3358.4	994.5	334.1	163.2	155.3	130.2	106.6	86.3	80.0
70°	10652.4	8185.0	2749.7	967.8	337.2	133.3	130.2	103.5	86.3	72.2	65.9
72.5°	6472.1	4851.7	2164.6	840.7	327.8	106.6	116.1	78.5	62.7	51.8	48.6
75°	4001.6	3320.8	1342.7	654.1	216.5	78.5	81.6	48.6	42.4	33.0	33.0
77.5°	2318.4	2097.2	480.0	235.3	95.7	47.1	36.1	25.1	23.5	14.1	14.1
80°	961.5	770.2	166.3	80.0	51.8	22.0	7.8	1.6	0.0	0.0	0.0
82.5°	280.8	249.4	45.5	36.1	15.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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°	6900.3	6900.3	6900.3	6900.3	6900.3	6900.3	6900.3	6900.3	6900.3	6900.3	6900.3
2.5°	5581.1	5529.3	5505.9	5585.8	5512.1	5606.2	5534.0	5565.4	5658.0	5698.8	5803.8
5°	4177.2	4123.8	4098.8	4219.5	4213.2	4272.9	4266.6	4321.5	4368.6	4263.4	4371.7
7.5°	2909.8	2873.7	2933.3	3027.4	3127.8	3094.9	3094.9	3021.1	3046.3	3030.5	3025.8
10°	2213.3	2089.4	2058.0	2054.9	2092.5	2100.4	2058.0	1956.1	1993.7	2004.7	2070.5
12.5°	1741.1	1645.5	1499.6	1433.7	1416.4	1430.5	1290.9	1201.5	1243.9	1218.8	1283.1
15°	1248.6	1170.2	1083.9	1010.2	989.8	961.5	809.4	702.7	690.2	694.9	705.9
17.5°	891.0	837.6	837.6	759.2	716.9	632.2	555.3	508.2	503.5	508.2	516.0
20°	657.2	629.0	625.9	605.5	558.4	502.0	448.6	439.2	436.1	443.9	447.1
22.5°	566.2	536.5	511.3	509.8	465.9	418.8	393.8	381.1	382.7	385.9	393.8
25°	506.7	475.2	448.6	432.9	401.6	368.6	345.1	338.8	338.8	343.5	345.1
27.5°	464.3	425.1	401.6	379.6	351.4	323.1	302.8	298.1	294.9	298.1	305.9
30°	434.5	395.3	365.5	332.5	310.6	283.9	266.7	260.4	258.9	260.4	266.7
32.5°	371.7	348.3	324.7	294.9	268.2	251.0	232.1	221.2	221.2	224.3	230.6
35°	280.8	268.2	266.7	258.9	236.8	218.1	196.0	185.1	185.1	191.4	194.5
37.5°	247.8	224.3	221.2	218.1	208.7	183.5	163.2	153.7	152.1	156.8	163.2
40°	225.9	199.2	185.1	182.0	183.5	155.3	133.3	123.9	123.9	125.5	131.8
42.5°	208.7	177.3	152.1	149.0	155.3	130.2	108.2	98.8	98.8	98.8	106.6
45°	194.5	158.4	128.6	112.9	122.4	106.6	87.8	78.5	75.3	78.5	81.6
47.5°	185.1	144.3	112.9	91.0	91.0	84.7	70.6	59.6	56.4	58.0	62.7
50°	177.3	131.8	95.7	73.8	65.9	67.4	53.3	45.5	42.4	42.4	47.1
52.5°	164.7	119.3	83.2	62.7	50.2	45.5	39.2	33.0	31.4	33.0	36.1
55°	149.0	108.2	72.2	51.8	39.2	31.4	28.3	23.5	22.0	23.5	28.3
57.5°	131.8	91.0	58.0	40.8	26.7	20.4	18.8	15.7	12.5	14.1	17.2
59°	120.8	81.6	50.2	33.0	20.4	14.1	14.1	11.0	7.8	9.4	14.1
60°	116.1	75.3	42.4	28.3	17.2	11.0	11.0	7.8	4.7	6.3	11.0
62.5°	98.8	62.7	33.0	17.2	7.8	1.6	4.7	1.6	0.0	1.6	4.7
65°	83.2	50.2	22.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	1.6
67.5°	69.0	37.7	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	54.9	25.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	37.7	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	23.5	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6900.3	6900.3	6900.3	6900.3	6900.3	6900.3	6900.3	6900.3	6900.3	6900.3
2.5°	5810.1	6034.4	6172.4	6432.9	6699.5	6905.0	7162.3	7392.9	7488.5	7538.7
5°	4481.5	4793.7	5058.8	5455.7	5824.3	6272.9	6727.7	7264.2	7469.7	7523.1
7.5°	3145.1	3463.5	3741.1	4200.7	4726.3	5327.0	6007.8	6688.6	6988.1	7072.9
10°	2271.4	2611.7	2950.6	3410.2	3901.1	4552.1	5261.1	6103.5	6448.5	6514.5
12.5°	1433.7	1799.2	2349.8	2917.6	3436.8	3960.8	4702.7	5618.7	5999.9	6120.7
15°	831.3	1104.3	1520.0	2260.4	2920.7	3614.1	4423.5	5436.8	5863.5	5987.4
17.5°	556.8	650.9	936.5	1502.7	2374.9	3294.1	4352.9	5585.8	6058.0	6216.4
20°	469.0	511.3	611.7	916.1	1829.0	3008.6	4371.7	5990.5	6610.1	6807.7
22.5°	412.5	451.8	516.0	658.8	1276.8	2654.1	4461.1	6569.3	7369.3	7621.9
25°	363.9	403.1	459.6	545.9	858.0	2244.7	4657.2	7416.4	8374.8	8652.5
27.5°	323.1	359.2	407.8	481.6	660.4	1788.2	4831.3	8241.5	9292.5	9518.4
30°	285.5	315.3	362.4	418.8	549.0	1378.8	4919.2	8963.0	9960.6	10211.7
32.5°	247.8	276.1	321.6	367.1	451.8	1051.0	4858.0	9493.2	10610.1	10770.1
35°	211.8	241.5	279.2	321.6	390.6	848.7	4552.1	10089.3	11283.0	11408.5
37.5°	182.0	207.1	246.2	279.2	353.0	679.2	4181.9	10625.8	12037.5	12217.9
40°	153.7	178.8	218.1	247.8	324.7	534.9	3847.8	11221.8	12832.8	13055.5
42.5°	125.5	155.3	189.8	238.4	279.2	407.8	3443.1	11705.0	13430.4	13709.6
45°	100.4	133.3	171.0	236.8	243.1	310.6	3052.5	12081.4	13959.1	14210.0
47.5°	80.0	112.9	164.7	221.2	199.2	246.2	2829.8	12475.1	14398.3	14599.0
50°	64.3	94.1	172.6	194.5	166.3	208.7	2823.5	12914.4	14625.7	14759.0
52.5°	51.8	76.9	145.9	149.0	141.2	183.5	2992.9	13408.5	14857.9	14967.7
55°	43.9	64.3	95.7	109.8	127.1	166.3	3119.9	14169.3	15411.6	15515.1
57.5°	34.5	54.9	73.8	87.8	112.9	152.1	3137.2	14755.9	16112.7	16180.2
59°	29.8	47.1	65.9	78.5	103.5	142.7	3066.6	14792.0	16158.2	16266.5
60°	25.1	42.4	58.0	73.8	95.7	134.9	2989.8	14530.0	15988.8	16109.6
62.5°	18.8	33.0	42.4	59.6	78.5	116.1	2625.9	13615.5	15341.0	15425.7
65°	12.5	23.5	31.4	43.9	61.1	100.4	2139.6	12429.6	14340.2	14530.0
67.5°	7.8	17.2	25.1	33.0	50.2	84.7	1524.6	10658.7	12939.5	13061.8
70°	4.7	11.0	18.8	26.7	39.2	67.4	905.1	8425.0	10765.4	10790.5
72.5°	3.1	7.8	12.5	18.8	31.4	61.1	439.2	5491.7	7860.3	8159.9
75°	1.6	4.7	7.8	14.1	25.1	50.2	210.2	3668.9	5719.1	5805.4
77.5°	0.0	1.6	4.7	9.4	18.8	39.2	122.4	2409.4	3899.5	3988.9
80°	0.0	0.0	3.1	7.8	14.1	25.1	73.8	1421.1	2362.3	2406.3
82.5°	0.0	0.0	1.6	6.3	9.4	18.8	37.7	624.3	1546.7	1562.3
85°	0.0	0.0	1.6	6.3	7.8	12.5	14.1	84.7	687.0	699.6
87.5°	0.0	0.0	1.6	7.8	7.8	7.8	7.8	4.7	58.0	72.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)