

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: P652125

Luminaire Tested: **GALN-SA9A-840-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25039.1 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

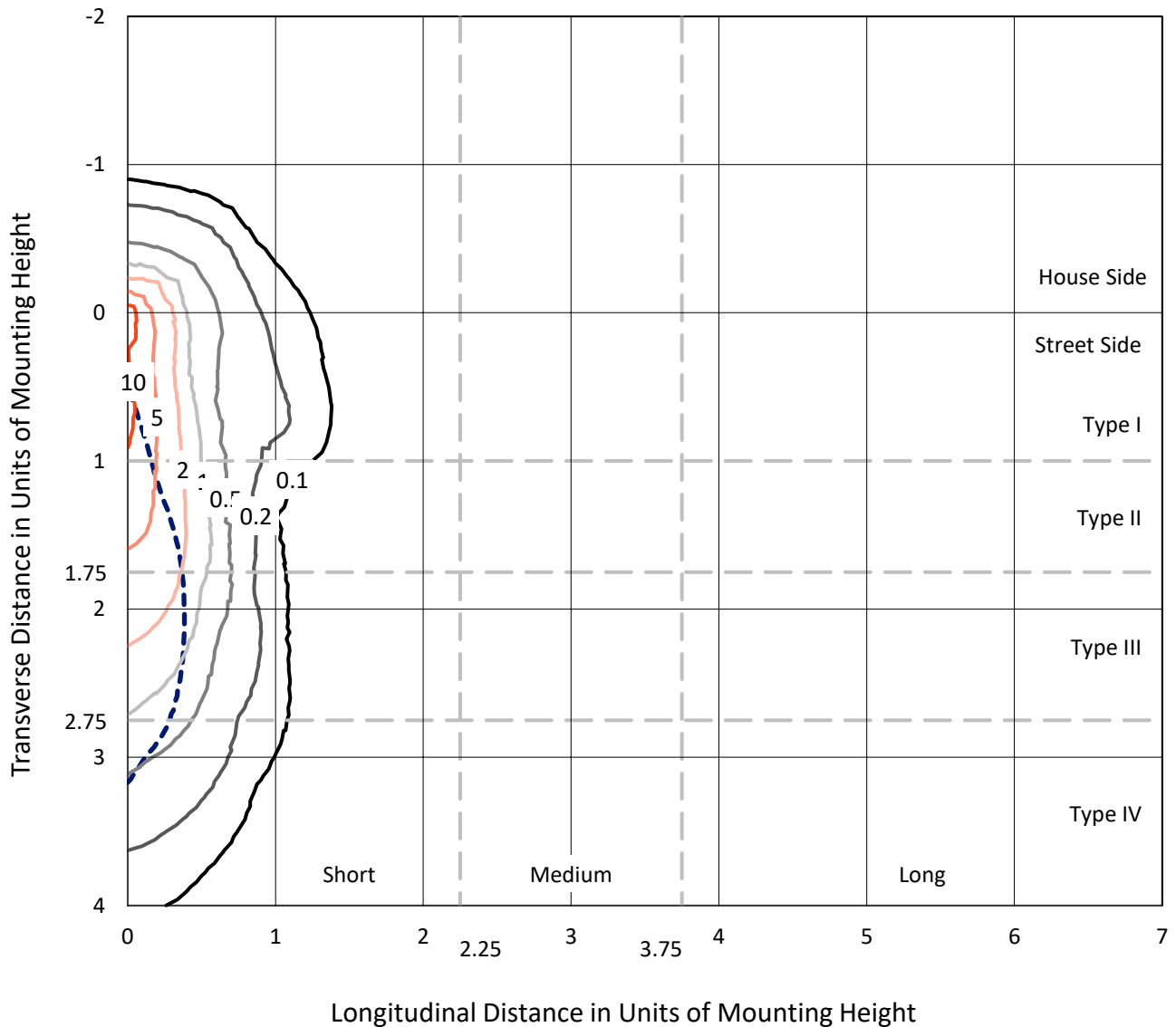
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

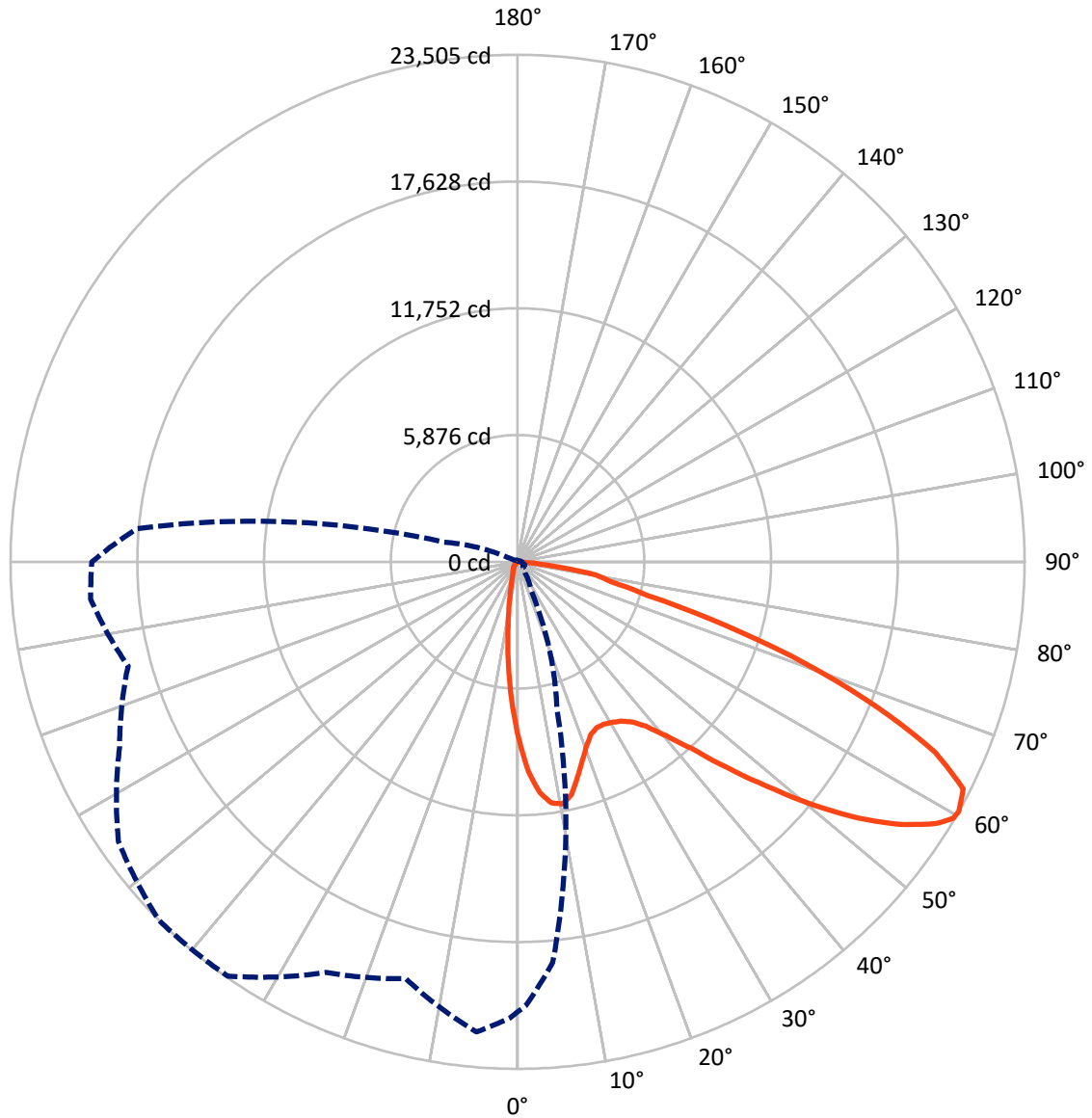
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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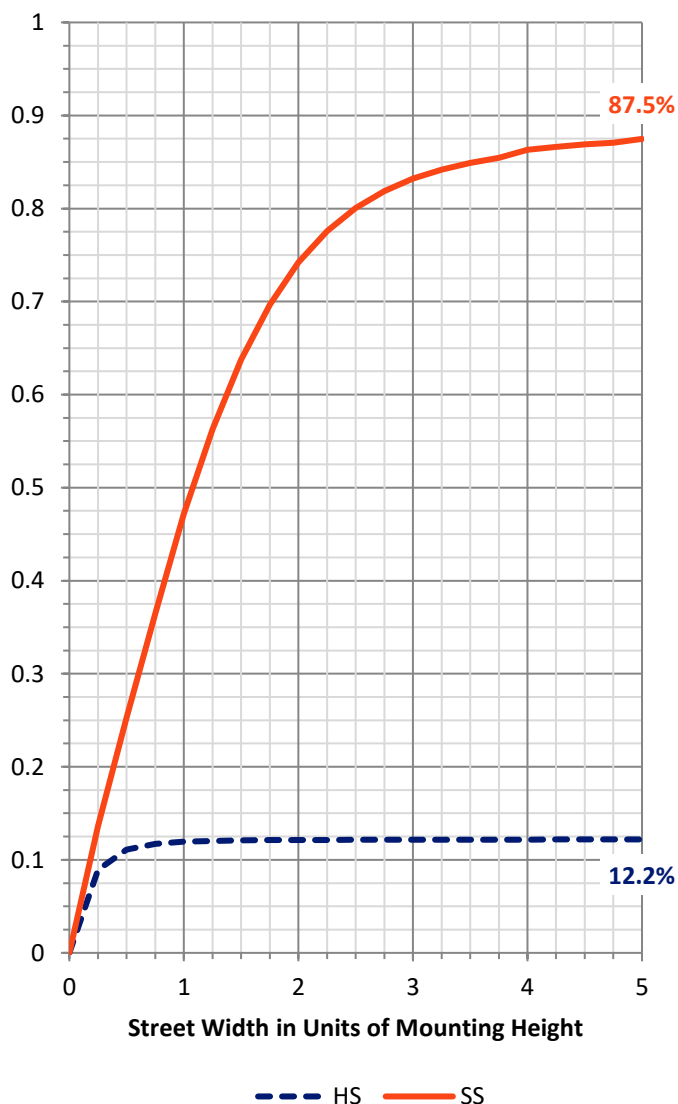
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3088.3	0.0	3088.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	21950.8	0.0	21950.8
	% Fixture	87.7	0.0	87.7
Total	Lumens	25039.1	0.0	25039.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.5	2.5
10°-20°	1222.4	4.9
20°-30°	1792.4	7.2
30°-40°	2665.6	10.6
40°-50°	3879.3	15.5
50°-60°	5594.3	22.3
60°-70°	6153.2	24.6
70°-80°	2756.1	11.0
80°-90°	360.1	1.4
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°	25039.1	100.0
0°-180°	25039.1	100.0

Coefficient of Utilization

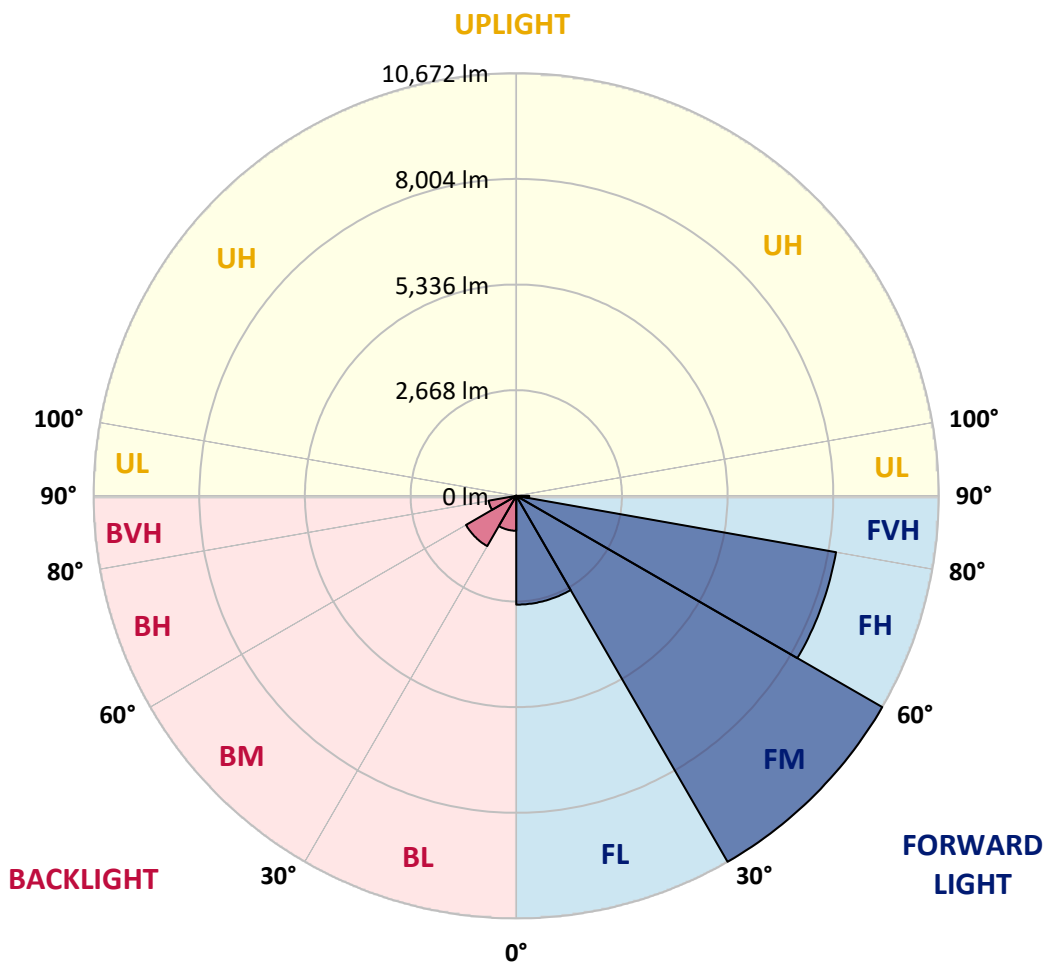


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2748.0	11.0			
FM (30°-60°)	10672.4	42.6			
FH (60°-80°)	8201.0	32.8			G4/12000
FVH (80°-90°)	329.3	1.3			G3/500
BL (0°-30°)	882.4	3.5	B2/1000		
BM (30°-60°)	1466.9	5.9	B2/2500		
BH (60°-80°)	708.2	2.8	B2/1000		G2/1000
BVH (80°-90°)	30.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8275.8	8275.8	8275.8	8275.8	8275.8	8275.8	8275.8	8275.8	8275.8	8275.8	8275.8
2.5°	9098.0	9058.1	8966.7	8688.8	8447.1	8131.1	7811.4	7560.1	7405.9	7122.3	6992.9
5°	8814.4	8833.4	8568.9	7997.9	7362.2	6928.2	6454.3	6077.4	5662.5	5399.8	5123.8
7.5°	8074.0	8035.9	7748.6	6953.0	6180.2	5552.1	4952.6	4465.3	4158.8	3913.3	3707.7
10°	7440.2	7411.6	7044.3	6020.3	5190.5	4720.3	4314.9	3888.5	3559.3	3199.5	2912.1
12.5°	7042.4	6977.7	6555.2	5485.4	4809.8	4372.0	3930.4	3487.0	3032.1	2668.5	2320.2
15°	6909.2	6815.9	6345.8	5300.8	4566.1	4010.4	3456.5	2946.4	2423.0	2021.3	1758.7
17.5°	7150.9	6996.7	6496.1	5268.4	4275.0	3538.3	2857.0	2192.7	1648.3	1341.9	1180.1
20°	7704.7	7527.8	6876.8	5236.2	3951.4	3009.2	2171.7	1549.3	1140.1	972.6	883.1
22.5°	8527.0	8283.4	7440.2	5287.5	3652.5	2493.4	1568.4	1094.4	906.0	801.3	738.5
25°	9514.8	9311.2	8154.0	5470.2	3416.5	2088.0	1212.5	894.6	763.2	698.5	650.9
27.5°	10597.9	10272.4	9077.1	5689.1	3201.4	1773.9	1063.9	799.4	679.5	620.5	595.8
30°	11368.7	11115.6	9849.9	5841.4	2933.1	1537.9	972.6	788.0	681.4	611.0	565.3
32.5°	12130.1	11806.5	10497.0	5911.8	2737.0	1374.2	841.3	687.1	597.6	561.5	515.8
35°	12944.7	12605.9	11142.2	5873.7	2590.4	1265.7	763.2	612.9	512.0	451.1	405.4
37.5°	13768.9	13411.0	11783.7	5736.7	2499.1	1222.0	702.3	582.4	483.5	420.7	371.1
40°	14747.2	14269.4	12385.2	5624.4	2403.9	1199.1	662.4	563.4	462.6	395.9	346.4
42.5°	15546.6	15091.7	12954.3	5565.4	2339.2	1145.8	662.4	548.2	449.2	375.0	323.5
45°	16304.1	15832.1	13569.0	5613.0	2312.6	1079.2	669.9	546.2	439.7	359.7	308.3
47.5°	16937.9	16528.7	14200.9	5791.9	2278.4	1006.8	630.0	572.9	434.0	346.4	293.1
50°	17686.0	17290.0	15036.5	6153.5	2217.4	934.5	580.5	616.7	432.0	335.0	279.8
52.5°	18740.4	18312.2	16189.9	6564.7	2120.3	824.2	534.9	611.0	424.5	316.0	266.4
55°	20029.0	19682.6	17526.1	7057.7	1987.1	700.5	462.6	542.4	401.6	283.6	243.6
57.5°	20855.0	20560.0	18527.2	7270.8	1783.4	572.9	407.3	454.9	367.3	253.1	217.0
59°	20952.1	20685.7	18736.6	7200.4	1650.2	523.4	380.6	390.2	357.8	236.0	201.8
60°	20870.3	20594.2	18652.9	7063.3	1526.5	489.1	357.8	346.4	359.7	226.5	190.3
62.5°	20345.0	19872.9	17840.1	6368.6	1334.2	449.2	317.9	283.6	317.9	203.7	169.4
65°	19330.5	18622.4	16231.8	5390.3	1258.1	426.4	270.3	237.9	241.7	178.9	146.6
67.5°	17558.4	16665.8	14090.5	4379.6	1225.8	428.2	228.4	213.2	186.5	152.3	129.4
70°	14756.7	13865.9	11305.9	3603.0	1210.5	428.2	194.1	182.7	156.1	127.5	112.3
72.5°	10457.0	9497.7	7626.8	2830.3	1090.6	426.4	165.6	165.6	127.5	106.6	91.3
75°	5908.0	5915.6	4794.5	2002.3	906.0	352.1	133.2	131.4	93.3	81.8	68.5
77.5°	3443.1	3382.2	3231.9	860.3	420.7	159.9	93.3	80.0	64.7	59.0	49.5
80°	1770.1	1456.0	1418.0	312.2	150.4	100.8	64.7	45.7	41.9	38.1	34.2
82.5°	523.4	525.3	468.2	125.6	83.8	66.6	32.4	24.7	22.9	20.9	20.9
85°	36.2	22.9	26.7	38.1	51.4	26.7	1.9	5.7	5.7	7.7	9.5
87.5°	3.8	1.9	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8275.8	8275.8	8275.8	8275.8	8275.8	8275.8	8275.8	8275.8	8275.8	8275.8	8275.8
2.5°	6850.2	6933.9	6777.9	6781.7	6652.2	6694.1	6541.8	6591.3	6501.9	6570.4	6772.2
5°	5154.3	5173.3	5047.7	5007.7	5026.7	5104.8	5135.2	4996.3	5055.3	4939.2	4931.6
7.5°	3631.6	3654.4	3582.1	3572.6	3709.7	3677.3	3736.3	3593.5	3458.4	3517.4	3408.9
10°	2820.8	2725.6	2577.2	2535.3	2508.6	2525.8	2525.8	2396.3	2377.3	2325.9	2403.9
12.5°	2226.9	2110.8	1970.0	1779.6	1732.0	1728.3	1657.8	1543.7	1507.5	1463.7	1528.4
15°	1617.8	1570.2	1452.2	1345.7	1237.2	1216.3	1102.0	1008.8	885.1	867.9	862.2
17.5°	1138.2	1067.8	1065.9	1005.0	942.2	900.3	793.7	687.1	639.5	633.8	633.8
20°	852.7	828.0	788.0	780.4	761.4	713.8	618.6	561.5	538.7	540.5	548.2
22.5°	717.5	700.5	664.3	647.1	639.5	597.6	527.2	489.1	477.8	477.8	479.6
25°	641.4	626.2	586.3	559.6	550.1	519.7	464.4	435.9	426.4	426.4	426.4
27.5°	584.3	565.3	523.4	500.6	483.5	449.2	414.9	386.4	376.9	376.9	378.8
30°	544.4	523.4	485.3	454.9	428.2	397.8	369.3	344.5	333.1	331.2	333.1
32.5°	491.1	472.1	434.0	414.9	384.5	348.3	325.5	302.6	291.2	293.1	291.2
35°	382.6	376.9	350.2	355.9	338.8	308.3	287.4	262.6	249.4	247.4	251.2
37.5°	348.3	325.5	295.0	297.0	291.2	279.8	245.6	218.9	209.4	209.4	211.3
40°	321.7	298.8	264.6	247.4	249.4	249.4	213.2	184.6	175.1	173.2	177.0
42.5°	298.8	276.0	237.9	209.4	201.8	211.3	180.8	152.3	142.7	138.9	142.7
45°	283.6	258.9	215.0	182.7	159.9	171.3	148.4	125.6	114.2	114.2	112.3
47.5°	268.4	245.6	198.0	157.9	133.2	127.5	121.8	100.8	89.5	87.5	89.5
50°	255.1	232.2	178.9	137.1	112.3	99.0	99.0	80.0	72.3	68.5	70.4
52.5°	241.7	217.0	161.8	121.8	97.1	80.0	70.4	64.7	59.0	57.1	59.0
55°	222.7	198.0	144.7	104.7	83.8	66.6	55.2	53.3	49.5	45.7	49.5
57.5°	199.8	177.0	127.5	89.5	66.6	51.4	45.7	43.8	39.9	38.1	38.1
59°	186.5	165.6	118.0	78.0	59.0	45.7	41.9	39.9	36.2	32.4	34.2
60°	178.9	161.8	112.3	72.3	53.3	41.9	38.1	36.2	32.4	30.4	32.4
62.5°	157.9	144.7	99.0	59.0	41.9	30.4	26.7	28.5	26.7	24.7	26.7
65°	138.9	127.5	83.8	45.7	32.4	20.9	19.0	24.7	22.9	20.9	22.9
67.5°	123.7	110.4	70.4	34.2	22.9	11.4	13.3	20.9	20.9	19.0	20.9
70°	106.6	95.2	57.1	24.7	11.4	5.7	9.5	15.2	19.0	17.2	19.0
72.5°	87.5	74.3	43.8	17.2	5.7	0.0	5.7	13.3	19.0	17.2	19.0
75°	68.5	55.2	32.4	9.5	0.0	0.0	1.9	11.4	19.0	17.2	19.0
77.5°	49.5	39.9	19.0	1.9	0.0	0.0	1.9	11.4	19.0	17.2	19.0
80°	32.4	28.5	7.7	0.0	0.0	0.0	1.9	11.4	19.0	19.0	20.9
82.5°	20.9	15.2	0.0	0.0	0.0	0.0	3.8	15.2	20.9	22.9	22.9
85°	9.5	0.0	0.0	0.0	0.0	0.0	7.7	19.0	24.7	24.7	24.7
87.5°	0.0	0.0	0.0	0.0	0.0	3.8	13.3	22.9	28.5	28.5	28.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8275.8	8275.8	8275.8	8275.8	8275.8	8275.8	8275.8	8275.8	8275.8	8275.8	8275.8
2.5°	6806.4	6926.3	7095.7	7356.5	7567.7	7900.9	8155.8	8504.2	8856.3	8962.9	9128.5
5°	5009.6	5163.8	5548.2	5898.5	6119.3	6823.5	7268.9	7971.3	8601.2	8903.9	9233.2
7.5°	3479.3	3662.1	3955.1	4444.3	4908.7	5481.6	6201.1	7004.4	7927.4	8359.5	8823.9
10°	2442.0	2670.4	3083.4	3485.0	4069.3	4613.7	5323.7	6210.6	7228.9	7739.1	8321.4
12.5°	1541.7	1745.4	2291.6	2742.8	3471.7	4103.7	4758.4	5561.6	6741.7	7265.1	7876.0
15°	881.3	1052.6	1307.6	1886.2	2695.2	3530.7	4347.3	5279.9	6492.4	7137.6	7798.0
17.5°	656.7	702.3	816.5	1143.9	1880.5	2857.0	3968.5	5194.3	6661.7	7419.3	8173.0
20°	551.9	582.4	635.7	765.1	1199.1	2200.3	3599.2	5209.5	7209.9	8161.6	8877.3
22.5°	494.8	513.9	557.7	641.4	818.5	1602.6	3167.2	5299.0	7874.2	9073.3	9899.3
25°	434.0	458.7	496.8	569.1	681.4	1111.5	2740.8	5498.8	8804.9	10230.5	11007.1
27.5°	386.4	409.2	447.3	513.9	597.6	848.9	2244.0	5670.1	9787.1	11395.4	12031.1
30°	338.8	361.6	399.7	453.0	529.2	687.1	1709.2	5770.9	10740.6	12269.0	12758.1
32.5°	298.8	317.9	354.1	401.6	464.4	582.4	1347.5	5666.3	11469.6	13062.7	13390.1
35°	258.9	281.7	312.2	355.9	411.2	496.8	1121.1	5304.6	12095.8	13879.3	13997.3
37.5°	217.0	243.6	276.0	316.0	359.7	456.8	900.3	4905.0	12765.8	14897.6	14703.4
40°	182.7	207.5	237.9	281.7	321.7	418.7	692.8	4478.6	13489.1	15853.0	15474.2
42.5°	148.4	175.1	211.3	251.2	317.9	365.4	536.7	4037.1	14138.1	16684.8	16170.9
45°	118.0	140.9	178.9	230.3	316.0	314.0	414.9	3601.2	14627.3	17278.6	16690.5
47.5°	93.3	112.3	150.4	224.6	291.2	266.4	333.1	3330.9	15141.2	17813.5	17088.3
50°	74.3	93.3	129.4	234.1	255.1	228.4	279.8	3374.7	15638.0	18085.6	17252.0
52.5°	62.8	81.8	112.3	184.6	196.0	199.8	245.6	3576.4	16279.4	18376.9	17577.5
55°	55.2	72.3	95.2	129.4	152.3	178.9	224.6	3722.9	17137.8	19001.1	18295.0
57.5°	43.8	62.8	85.6	110.4	125.6	156.1	207.5	3734.4	17914.4	19802.5	19248.6
59°	39.9	57.1	80.0	104.7	112.3	140.9	196.0	3637.3	17942.9	19922.4	19686.4
60°	36.2	55.2	76.1	97.1	106.6	133.2	186.5	3525.0	17684.0	19732.0	19867.2
62.5°	30.4	47.6	66.6	78.0	91.3	110.4	161.8	3117.7	16429.8	18869.9	19532.2
65°	26.7	41.9	57.1	64.7	76.1	95.2	142.7	2495.3	15044.1	17701.2	18572.9
67.5°	24.7	38.1	49.5	55.2	66.6	87.5	127.5	1762.5	13249.2	16218.4	17132.1
70°	22.9	36.2	43.8	51.4	59.0	74.3	108.5	1027.8	10205.8	13618.5	14583.5
72.5°	22.9	34.2	38.1	43.8	51.4	66.6	100.8	555.8	6977.7	10388.5	11635.2
75°	22.9	32.4	34.2	38.1	45.7	60.9	89.5	291.2	4511.0	7217.5	8907.7
77.5°	22.9	30.4	34.2	36.2	43.8	53.3	78.0	182.7	3005.4	5055.3	6020.3
80°	24.7	30.4	32.4	36.2	41.9	49.5	64.7	121.8	1766.4	3041.6	3664.0
82.5°	26.7	30.4	34.2	38.1	43.8	47.6	57.1	76.1	814.7	2011.8	2276.4
85°	28.5	32.4	36.2	39.9	45.7	47.6	53.3	55.2	133.2	907.9	1227.7
87.5°	30.4	34.2	38.1	41.9	49.5	49.5	49.5	49.5	45.7	97.1	247.4
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°	8275.8	8275.8	8275.8	8275.8	8275.8	8275.8	8275.8	8275.8	8275.8	8275.8
2.5°	9337.9	9552.9	9703.3	9741.4	9632.9	9583.4	9446.4	9233.2	9103.7	9098.0
5°	9840.4	10344.7	10694.9	10754.0	10544.5	10190.6	9769.9	9227.5	8909.6	8814.4
7.5°	9754.7	10637.8	11201.2	11283.1	10931.0	10255.2	9440.6	8567.0	8220.6	8074.0
10°	9402.5	10479.9	11285.0	11414.4	10944.3	9992.6	8957.2	7982.7	7552.5	7440.2
12.5°	9101.8	10190.6	10906.2	11085.1	10729.2	9779.4	8667.9	7607.7	7147.1	7042.4
15°	8970.5	9847.9	10285.7	10377.1	10318.1	9646.2	8637.4	7550.6	7023.4	6909.2
17.5°	9101.8	9556.7	9612.0	9705.2	9836.5	9632.9	8930.5	7860.8	7291.7	7150.9
20°	9446.4	9303.6	9075.1	9115.2	9415.9	9688.1	9452.1	8547.9	7855.1	7704.7
22.5°	10032.5	9240.7	8723.1	8688.8	9069.5	9872.7	10217.2	9478.7	8675.5	8527.0
25°	10752.0	9398.8	8593.7	8519.4	8934.4	10143.0	11049.0	10618.8	9741.4	9514.8
27.5°	11536.2	9726.2	8593.7	8521.3	8922.9	10382.8	11760.8	11627.6	10845.3	10597.9
30°	11966.4	9996.4	8717.4	8635.5	9063.8	10521.8	12141.5	12524.1	11675.2	11368.7
32.5°	12350.8	10371.4	8959.1	8804.9	9358.8	10727.3	12482.2	13285.4	12335.6	12130.1
35°	12704.9	10773.0	9292.2	9113.2	9747.1	11009.0	12859.1	14084.8	13254.9	12944.7
37.5°	13095.0	11239.3	9811.8	9659.5	10396.1	11557.2	13306.3	15135.5	14159.1	13768.9
40°	13519.5	11779.9	10666.4	10601.6	11427.8	12177.7	13871.6	16256.5	15190.6	14747.2
42.5°	13951.6	12402.2	11713.2	11819.8	12596.4	13047.4	14452.2	17118.7	16035.8	15546.6
45°	14343.7	13197.8	13074.1	13601.3	13959.2	13896.3	14882.3	17725.9	16772.3	16304.1
47.5°	14838.5	14357.0	14720.5	15533.3	15542.8	14819.5	15207.8	18222.7	17406.2	16937.9
50°	15392.4	15725.5	16846.6	17674.5	17451.8	15727.4	15588.4	18810.8	18060.9	17686.0
52.5°	16033.8	17257.7	18810.8	19730.2	19210.5	16717.1	16222.3	19446.5	19100.1	18740.4
55°	16780.0	18302.6	20769.4	21502.2	20978.7	17946.7	17185.4	20308.8	20274.5	20029.0
57.5°	17623.2	19406.6	21903.8	22895.5	22429.1	19389.4	18531.0	21121.5	20992.1	20855.0
59°	18289.3	19973.8	22404.4	23432.2	23150.5	20400.1	19435.2	21627.8	21157.7	20952.1
60°	18692.8	20358.3	22589.0	23504.5	23439.8	21001.6	20008.1	21875.3	21155.8	20870.3
62.5°	19890.1	21030.1	22518.5	23182.8	23436.0	22155.1	21688.7	22147.4	20763.7	20345.0
65°	20316.4	20807.4	21351.8	21270.0	21487.0	22096.0	22762.2	21848.6	19926.2	19330.5
67.5°	19486.6	18365.4	18557.7	18011.4	17904.8	19644.5	22326.4	20386.8	18287.4	17558.4
70°	16425.9	14069.6	13972.5	14223.7	13534.7	15904.4	20048.0	17571.8	15582.7	14756.7
72.5°	12929.4	9943.1	9124.7	10049.7	10028.8	12133.9	16654.3	12468.8	10527.5	10457.0
75°	10167.7	6922.5	6075.5	6225.8	6515.1	8784.0	13264.5	7917.9	6482.8	5908.0
77.5°	6825.4	4905.0	4575.6	4391.0	4703.2	5639.7	8391.9	4294.0	3635.4	3443.1
80°	3934.2	3563.1	4046.6	3673.5	3840.9	3553.6	4174.1	1970.0	1635.0	1770.1
82.5°	2560.0	2029.0	2162.2	1606.4	2196.4	2215.5	1340.0	582.4	493.0	523.4
85°	1600.8	951.7	534.9	380.6	757.6	1393.3	418.7	36.2	41.9	36.2
87.5°	414.9	157.9	66.6	99.0	121.8	108.5	97.1	5.7	1.9	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)