

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: P652396

Luminaire Tested: **GALN-SA5B-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652396
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-SA5B-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 17210.2 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

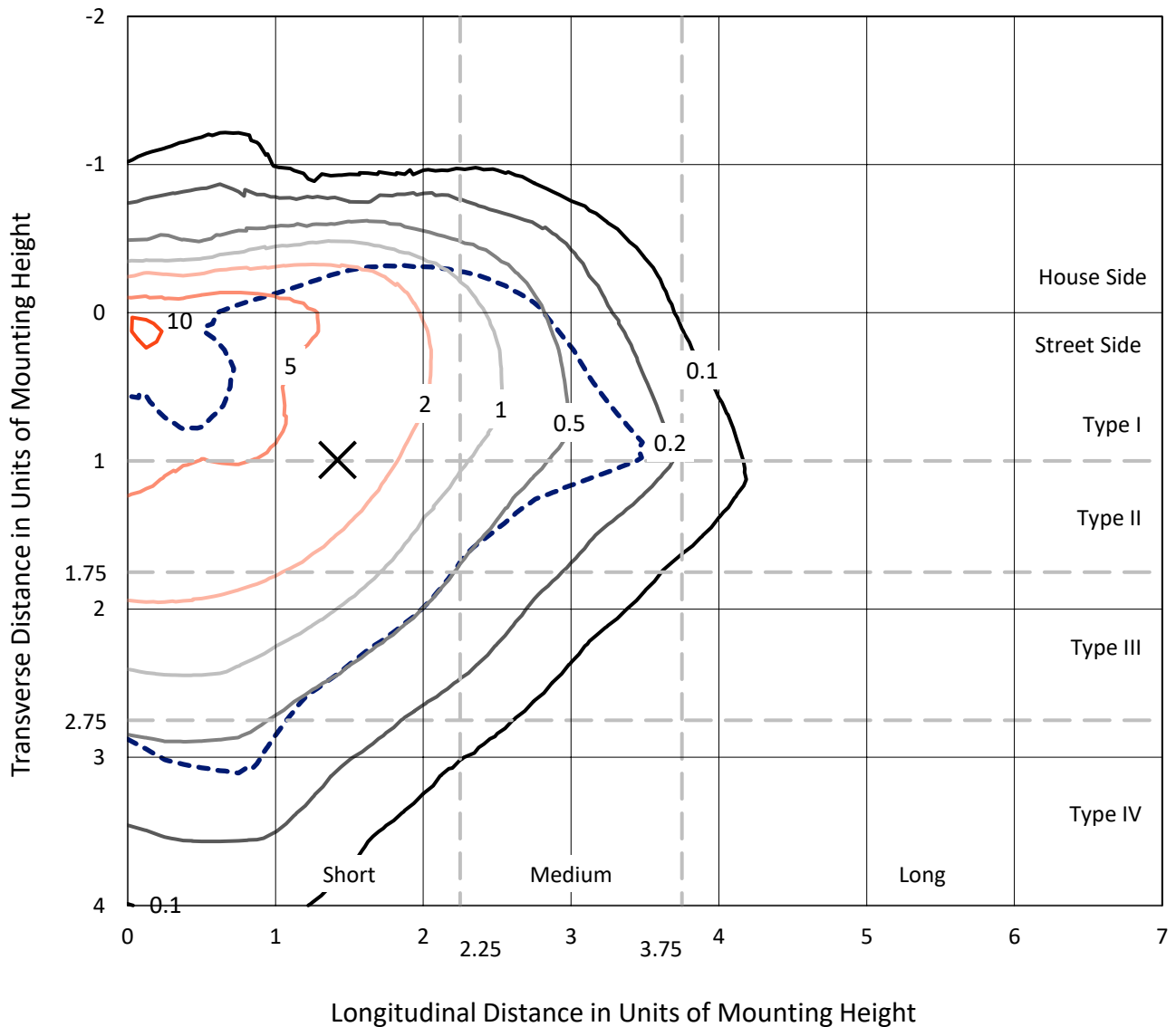
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

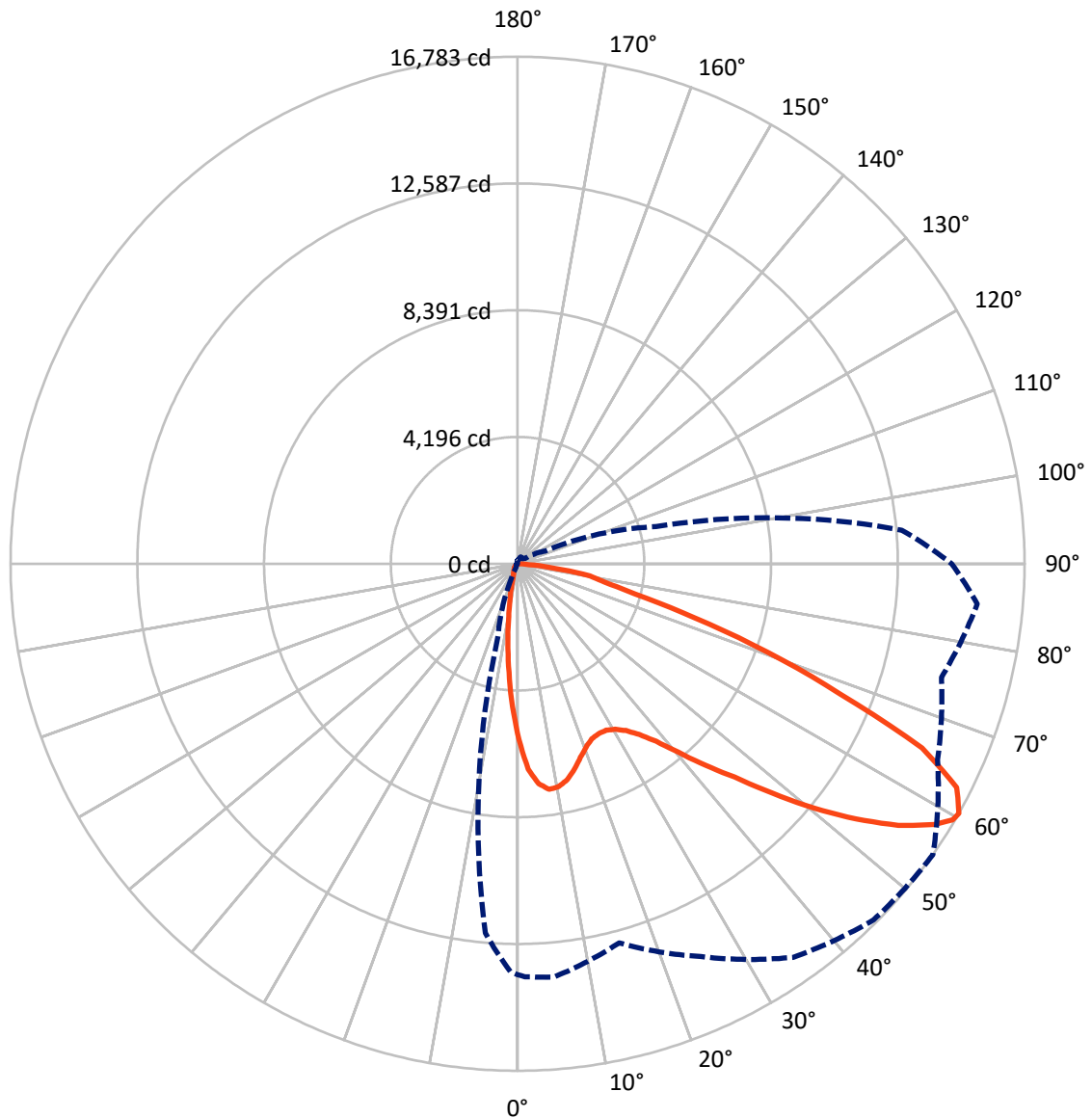
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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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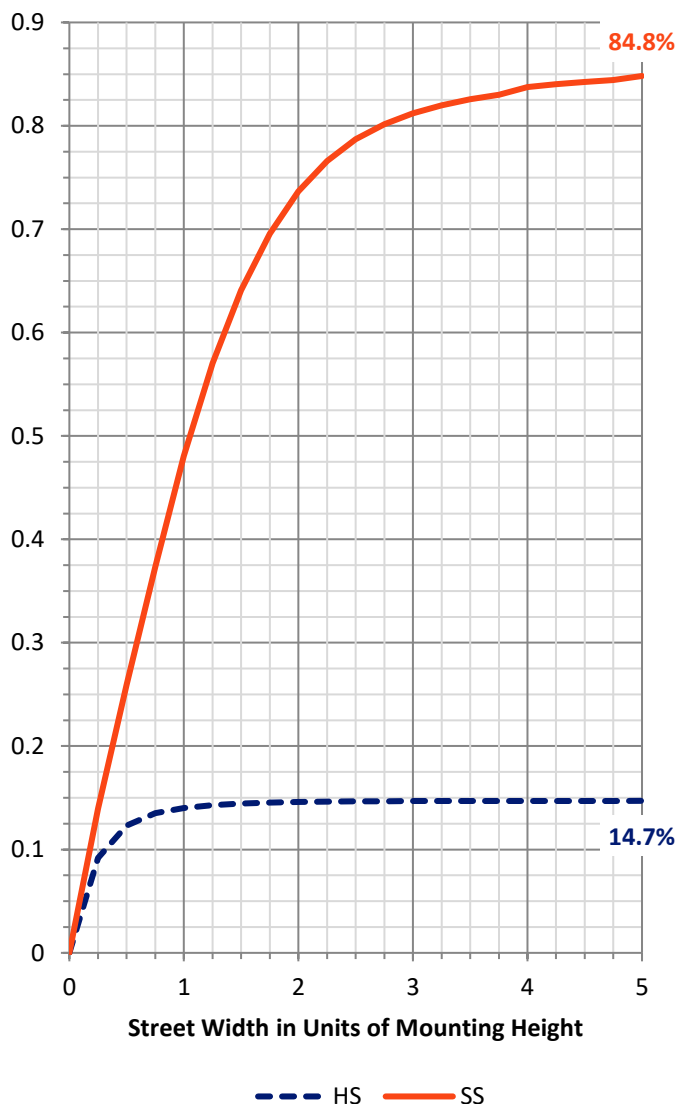
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2554.1	0.0	2554.1
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	14656.1	0.0	14656.1
	% Fixture	85.2	0.0	85.2
Total	Lumens	17210.2	0.0	17210.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.5	2.5
10°-20°	849.8	4.9
20°-30°	1257.8	7.3
30°-40°	1874.9	10.9
40°-50°	2745.8	16.0
50°-60°	3964.1	23.0
60°-70°	4170.0	24.2
70°-80°	1715.4	10.0
80°-90°	200.9	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°	17210.2	100.0
0°-180°	17210.2	100.0

Coefficient of Utilization

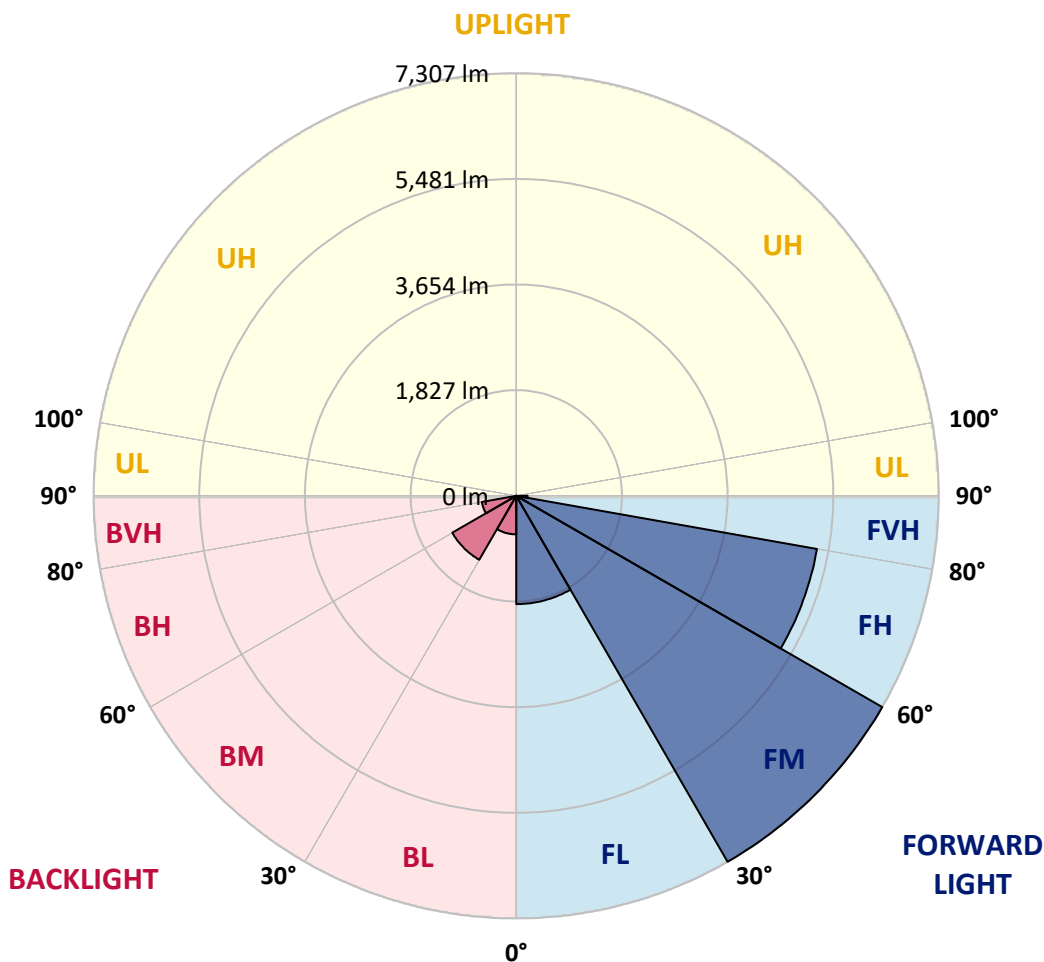


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1872.7	10.9			
FM (30°-60°)	7307.5	42.5			
FH (60°-80°)	5280.9	30.7			G3/7500
FVH (80°-90°)	195.0	1.1			G2/225
BL (0°-30°)	666.4	3.9	B2/1000		
BM (30°-60°)	1277.3	7.4	B2/2500		
BH (60°-80°)	604.5	3.5	B2/1000		G2/1000
BVH (80°-90°)	5.9	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°	5827.4	5827.4	5827.4	5827.4	5827.4	5827.4	5827.4	5827.4	5827.4	5827.4	5827.4
2.5°	6366.5	6355.9	6450.0	6603.6	6758.6	6839.4	6823.5	6816.9	6688.4	6594.4	6397.0
5°	6353.3	6407.6	6575.8	6991.7	7307.0	7459.3	7504.4	7314.9	7064.6	6701.6	6253.8
7.5°	5973.0	6040.7	6314.8	6965.2	7525.6	7856.8	7844.8	7541.5	7024.9	6463.2	5824.7
10°	5501.5	5581.0	5902.8	6692.3	7419.6	7856.8	7880.6	7496.4	6854.0	6133.3	5461.7
12.5°	5169.0	5263.0	5619.4	6438.0	7146.7	7577.2	7605.1	7326.9	6725.5	6006.2	5264.3
15°	5056.3	5145.2	5506.8	6309.5	6856.6	7088.5	7081.8	7052.7	6675.1	6036.6	5274.9
17.5°	5249.8	5322.6	5730.7	6367.8	6585.0	6561.2	6595.6	6736.1	6685.7	6292.3	5608.8
20°	5749.2	5823.3	6261.8	6546.7	6377.1	6226.1	6242.0	6476.5	6783.8	6773.2	6130.7
22.5°	6436.7	6562.6	6959.9	6893.7	6349.3	6018.1	5985.0	6289.7	6950.7	7326.9	6835.4
25°	7307.0	7434.2	7744.2	7447.5	6485.7	5969.1	5938.6	6232.7	7153.4	7867.4	7628.9
27.5°	8038.3	8135.0	8443.6	7986.6	6687.0	5990.3	5939.9	6240.6	7317.6	8327.0	8297.9
30°	8623.8	8695.3	8876.8	8238.3	6860.6	6083.0	6024.8	6357.2	7390.5	8550.9	8839.7
32.5°	9095.3	9215.9	9272.9	8507.2	7109.6	6257.9	6158.5	6581.1	7568.0	8827.8	9408.0
35°	9634.5	9773.6	9700.8	8764.1	7438.1	6530.8	6408.8	6944.1	7836.9	9083.5	10067.7
37.5°	10318.1	10478.4	10193.5	9034.4	7785.2	6941.4	6884.4	7454.0	8244.9	9449.1	10775.1
40°	11025.4	11118.2	10671.8	9362.9	8211.8	7538.8	7593.1	8211.8	8778.8	9887.6	11527.5
42.5°	11577.8	11665.3	11163.2	9638.4	8647.6	8247.5	8474.1	9125.9	9390.8	10336.6	12089.2
45°	12000.4	12074.6	11503.6	9939.2	9235.8	9274.2	9702.0	10067.7	10004.1	10610.8	12522.3
47.5°	12329.0	12392.6	11765.9	10262.4	10116.7	10530.0	11184.4	11339.4	10639.9	10907.5	12914.5
50°	12464.0	12482.6	11848.1	10674.4	11116.8	12130.2	12812.5	12718.4	11368.6	11237.4	13331.7
52.5°	12640.2	12636.3	12082.6	11066.5	12057.4	13560.9	14241.8	14028.6	12192.5	11731.5	13800.6
55°	13102.5	13107.8	12584.6	11622.9	12858.8	14716.1	15444.6	15289.6	13061.5	12566.1	14347.8
57.5°	13664.2	13684.1	13298.6	12273.3	13624.5	15553.3	16342.7	16283.2	14236.5	13494.7	14864.4
59°	13737.1	13776.8	13636.4	12731.6	14078.8	15810.2	16650.1	16708.4	14865.8	14106.7	15143.9
60°	13604.6	13670.9	13734.5	12991.3	14345.1	15903.0	16668.6	16782.6	15338.7	14522.6	15271.0
62.5°	13027.1	13131.7	13451.0	13790.0	14677.6	15614.2	16076.5	16315.0	15924.2	15615.5	15283.0
65°	12270.6	12324.9	12786.0	13931.8	14032.5	14265.6	14408.7	14714.7	15220.8	16036.8	14735.9
67.5°	11030.7	11191.0	11755.3	13109.2	12128.9	11853.4	11817.6	11513.0	12827.0	15032.6	13387.4
70°	9112.6	9184.1	9879.6	10747.2	9153.6	8729.7	8899.3	8785.3	9943.1	12941.0	10775.1
72.5°	6891.1	7052.7	7732.2	8566.8	6228.7	5678.9	6146.6	6104.2	7468.7	10400.1	7402.4
75°	4902.7	5007.3	5873.7	6704.3	4362.2	3695.9	3864.1	4021.7	5214.0	8211.8	4374.1
77.5°	3368.7	3458.8	4109.2	4433.8	3181.9	3048.1	2788.5	2940.8	3416.4	4872.2	2380.5
80°	2032.1	2028.1	2456.0	2535.4	2216.2	2573.9	2159.3	2424.2	2065.2	2085.1	922.0
82.5°	1319.4	1306.2	1502.2	1637.3	1233.3	1296.9	870.4	1254.5	1345.9	581.6	291.4
85°	590.8	615.9	722.0	952.4	540.5	287.5	177.5	385.5	573.6	292.8	0.0
87.5°	61.0	47.7	127.2	231.9	74.2	8.0	26.5	13.3	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°	5827.4	5827.4	5827.4	5827.4	5827.4	5827.4	5827.4	5827.4	5827.4	5827.4	5827.4
2.5°	6305.6	6228.7	5999.5	5784.9	5600.8	5375.6	5229.9	5000.8	4861.7	4819.3	4825.8
5°	6052.5	5831.3	5395.5	5047.1	4659.0	4437.7	4101.2	3778.0	3603.2	3538.3	3509.2
7.5°	5522.7	5285.5	4759.6	4212.6	3796.6	3408.4	3158.0	2873.3	2678.5	2518.2	2490.5
10°	5129.3	4817.9	4166.1	3578.0	3249.5	2958.0	2707.7	2422.8	2193.7	2010.9	1960.5
12.5°	4893.4	4545.0	3817.8	3325.0	3013.7	2714.3	2388.4	2058.6	1824.1	1626.7	1535.3
15°	4851.1	4447.0	3719.7	3143.5	2759.3	2397.7	1964.5	1608.2	1367.0	1180.3	1123.3
17.5°	5106.7	4623.1	3705.2	2954.1	2426.9	1914.2	1463.8	1168.4	896.8	792.1	751.1
20°	5562.4	4934.5	3703.8	2734.2	2085.1	1474.4	1028.0	761.7	651.8	601.4	577.6
22.5°	6183.7	5358.4	3774.1	2544.7	1730.0	1087.6	733.9	606.7	543.1	502.1	492.8
25°	6942.7	5986.3	3946.3	2416.3	1458.5	853.1	605.4	519.3	466.3	447.7	439.8
27.5°	7617.0	6587.7	4135.7	2283.7	1263.8	755.0	561.7	475.6	433.2	418.6	406.7
30°	8198.6	7133.4	4227.1	2108.9	1107.4	691.5	569.6	508.7	453.0	409.3	389.5
32.5°	8683.4	7552.1	4286.7	1949.9	975.0	565.7	450.4	393.4	368.3	352.4	339.1
35°	9290.1	8005.1	4250.9	1859.9	907.4	515.3	410.7	339.1	296.7	264.9	251.7
37.5°	9925.9	8458.2	4188.7	1785.7	876.9	478.2	390.8	321.9	275.5	242.5	225.2
40°	10584.3	8878.1	4115.9	1716.8	849.2	454.4	378.9	307.3	261.0	225.2	206.6
42.5°	11187.1	9287.4	4086.7	1671.7	804.1	458.3	369.6	300.7	246.4	209.3	193.4
45°	11674.5	9675.5	4126.5	1647.9	755.0	451.7	372.2	292.8	234.5	198.7	182.8
47.5°	12195.2	10224.0	4255.0	1624.1	707.4	419.9	392.1	291.4	229.2	192.1	174.8
50°	12800.5	10926.1	4549.0	1565.8	649.1	385.5	417.3	290.1	222.5	184.1	166.9
52.5°	13607.3	11723.5	4852.3	1463.8	564.3	352.4	398.7	286.1	209.3	174.8	157.6
55°	14331.9	12563.4	5109.3	1343.2	457.0	304.7	359.0	269.0	186.8	158.9	143.1
57.5°	14631.3	13037.7	5101.4	1176.3	365.6	267.6	295.4	246.4	162.9	140.4	127.2
59°	14521.3	12978.1	4930.5	1053.1	333.8	247.8	245.1	243.7	152.3	127.2	116.6
60°	14366.3	12760.8	4746.4	992.2	313.9	234.5	225.2	241.1	143.1	119.3	108.7
62.5°	13772.9	11860.0	4135.7	888.9	287.5	198.7	180.1	204.0	127.2	103.4	94.0
65°	12913.1	10475.7	3501.2	859.8	279.5	164.2	149.7	145.7	108.7	87.5	79.5
67.5°	11236.1	8864.9	2836.2	839.8	282.2	137.8	131.1	109.9	90.1	72.8	67.5
70°	8996.0	6912.3	2322.2	817.4	284.8	112.6	109.9	87.5	72.8	61.0	55.7
72.5°	5465.7	4097.3	1828.1	710.1	276.9	90.1	98.1	66.3	53.0	43.7	41.0
75°	3379.3	2804.4	1133.9	552.4	182.8	66.3	68.9	41.0	35.7	27.8	27.8
77.5°	1957.9	1771.1	405.4	198.7	80.8	39.8	30.4	21.2	19.8	11.9	11.9
80°	812.1	650.4	140.4	67.5	43.7	18.6	6.6	1.3	0.0	0.0	0.0
82.5°	237.2	210.6	38.4	30.4	13.3	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°	5827.4	5827.4	5827.4	5827.4	5827.4	5827.4	5827.4	5827.4	5827.4	5827.4	5827.4
2.5°	4713.3	4669.6	4649.7	4717.3	4655.0	4734.5	4673.5	4700.0	4778.1	4812.6	4901.3
5°	3527.7	3482.7	3461.4	3563.4	3558.1	3608.5	3603.2	3649.5	3689.3	3600.5	3691.9
7.5°	2457.3	2426.9	2477.2	2556.6	2641.4	2613.7	2613.7	2551.3	2572.5	2559.3	2555.4
10°	1869.1	1764.5	1738.0	1735.3	1767.1	1773.8	1738.0	1651.9	1683.7	1692.9	1748.6
12.5°	1470.4	1389.6	1266.4	1210.8	1196.2	1208.1	1090.2	1014.8	1050.5	1029.3	1083.6
15°	1054.4	988.3	915.3	853.1	835.9	812.1	683.6	593.5	582.9	586.8	596.1
17.5°	752.4	707.4	707.4	641.2	605.4	533.9	468.9	429.2	425.2	429.2	435.8
20°	555.1	531.2	528.6	511.3	471.6	423.9	378.9	370.9	368.3	374.9	377.5
22.5°	478.2	453.0	431.9	430.5	393.4	353.7	332.5	321.9	323.2	325.9	332.5
25°	427.9	401.4	378.9	365.6	339.1	311.3	291.4	286.1	286.1	290.1	291.4
27.5°	392.1	359.0	339.1	320.6	296.7	272.9	255.7	251.7	249.0	251.7	258.4
30°	366.9	333.8	308.6	280.8	262.3	239.8	225.2	219.9	218.6	219.9	225.2
32.5°	313.9	294.1	274.3	249.0	226.5	211.9	196.0	186.8	186.8	189.4	194.7
35°	237.2	226.5	225.2	218.6	200.0	184.1	165.6	156.3	156.3	161.6	164.2
37.5°	209.3	189.4	186.8	184.1	176.2	155.0	137.8	129.9	128.5	132.5	137.8
40°	190.7	168.2	156.3	153.7	155.0	131.1	112.6	104.6	104.6	106.0	111.3
42.5°	176.2	149.7	128.5	125.8	131.1	109.9	91.4	83.4	83.4	83.4	90.1
45°	164.2	133.8	108.7	95.4	103.4	90.1	74.2	66.3	63.6	66.3	68.9
47.5°	156.3	121.9	95.4	76.9	76.9	71.6	59.6	50.4	47.7	49.0	53.0
50°	149.7	111.3	80.8	62.2	55.7	56.9	45.1	38.4	35.7	35.7	39.8
52.5°	139.1	100.7	70.2	53.0	42.4	38.4	33.1	27.8	26.5	27.8	30.4
55°	125.8	91.4	61.0	43.7	33.1	26.5	23.9	19.8	18.6	19.8	23.9
57.5°	111.3	76.9	49.0	34.5	22.5	17.2	15.9	13.3	10.6	11.9	14.5
59°	102.0	68.9	42.4	27.8	17.2	11.9	11.9	9.3	6.6	8.0	11.9
60°	98.1	63.6	35.7	23.9	14.5	9.3	9.3	6.6	4.0	5.3	9.3
62.5°	83.4	53.0	27.8	14.5	6.6	1.3	4.0	1.3	0.0	1.3	4.0
65°	70.2	42.4	18.6	6.6	0.0	0.0	0.0	0.0	0.0	0.0	1.3
67.5°	58.3	31.8	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	46.3	21.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	31.8	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	19.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.0	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°	5827.4	5827.4	5827.4	5827.4	5827.4	5827.4	5827.4	5827.4	5827.4	5827.4
2.5°	4906.6	5096.1	5212.7	5432.6	5657.7	5831.3	6048.6	6243.2	6324.1	6366.5
5°	3784.7	4048.2	4272.1	4607.3	4918.6	5297.5	5681.6	6134.7	6308.2	6353.3
7.5°	2656.0	2924.9	3159.4	3547.5	3991.3	4498.7	5073.6	5648.5	5901.5	5973.0
10°	1918.2	2205.6	2491.7	2879.9	3294.5	3844.3	4443.0	5154.4	5445.8	5501.5
12.5°	1210.8	1519.4	1984.4	2464.0	2902.4	3344.8	3971.5	4745.1	5066.9	5169.0
15°	702.1	932.6	1283.6	1908.9	2466.6	3052.1	3735.6	4591.4	4951.7	5056.3
17.5°	470.3	549.8	790.9	1269.1	2005.6	2781.9	3676.0	4717.3	5116.0	5249.8
20°	396.1	431.9	516.6	773.6	1544.6	2540.7	3691.9	5059.0	5582.3	5749.2
22.5°	348.4	381.5	435.8	556.4	1078.3	2241.3	3767.4	5547.8	6223.4	6436.7
25°	307.3	340.4	388.1	461.0	724.6	1895.6	3933.0	6263.2	7072.6	7307.0
27.5°	272.9	303.3	344.4	406.7	557.7	1510.2	4080.0	6959.9	7847.5	8038.3
30°	241.1	266.3	306.0	353.7	463.6	1164.4	4154.2	7569.3	8411.9	8623.8
32.5°	209.3	233.1	271.6	310.0	381.5	887.5	4102.6	8017.1	8960.3	9095.3
35°	178.8	204.0	235.8	271.6	329.8	716.7	3844.3	8520.4	9528.5	9634.5
37.5°	153.7	174.8	208.0	235.8	298.1	573.6	3531.6	8973.5	10165.7	10318.1
40°	129.9	151.0	184.1	209.3	274.3	451.7	3249.5	9476.9	10837.3	11025.4
42.5°	106.0	131.1	160.3	201.3	235.8	344.4	2907.7	9884.9	11342.1	11577.8
45°	84.8	112.6	144.4	200.0	205.3	262.3	2577.8	10202.8	11788.5	12000.4
47.5°	67.5	95.4	139.1	186.8	168.2	208.0	2389.8	10535.3	12159.3	12329.0
50°	54.3	79.5	145.7	164.2	140.4	176.2	2384.5	10906.3	12351.4	12464.0
52.5°	43.7	64.9	123.2	125.8	119.3	155.0	2527.5	11323.5	12547.6	12640.2
55°	37.1	54.3	80.8	92.8	107.3	140.4	2634.9	11966.0	13015.1	13102.5
57.5°	29.2	46.3	62.2	74.2	95.4	128.5	2649.4	12461.4	13607.3	13664.2
59°	25.1	39.8	55.7	66.3	87.5	120.5	2589.8	12491.9	13645.6	13737.1
60°	21.2	35.7	49.0	62.2	80.8	114.0	2524.9	12270.6	13502.6	13604.6
62.5°	15.9	27.8	35.7	50.4	66.3	98.1	2217.5	11498.3	12955.5	13027.1
65°	10.6	19.8	26.5	37.1	51.6	84.8	1806.9	10496.9	12110.4	12270.6
67.5°	6.6	14.5	21.2	27.8	42.4	71.6	1287.6	9001.3	10927.4	11030.7
70°	4.0	9.3	15.9	22.5	33.1	56.9	764.4	7114.9	9091.4	9112.6
72.5°	2.7	6.6	10.6	15.9	26.5	51.6	370.9	4637.8	6638.0	6891.1
75°	1.3	4.0	6.6	11.9	21.2	42.4	177.5	3098.5	4829.9	4902.7
77.5°	0.0	1.3	4.0	8.0	15.9	33.1	103.4	2034.7	3293.2	3368.7
80°	0.0	0.0	2.7	6.6	11.9	21.2	62.2	1200.2	1995.0	2032.1
82.5°	0.0	0.0	1.3	5.3	8.0	15.9	31.8	527.2	1306.2	1319.4
85°	0.0	0.0	1.3	5.3	6.6	10.6	11.9	71.6	580.2	590.8
87.5°	0.0	0.0	1.3	6.6	6.6	6.6	6.6	4.0	49.0	61.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)