

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: P648108

Luminaire Tested: **GALN-SA8A-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-835-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15985 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

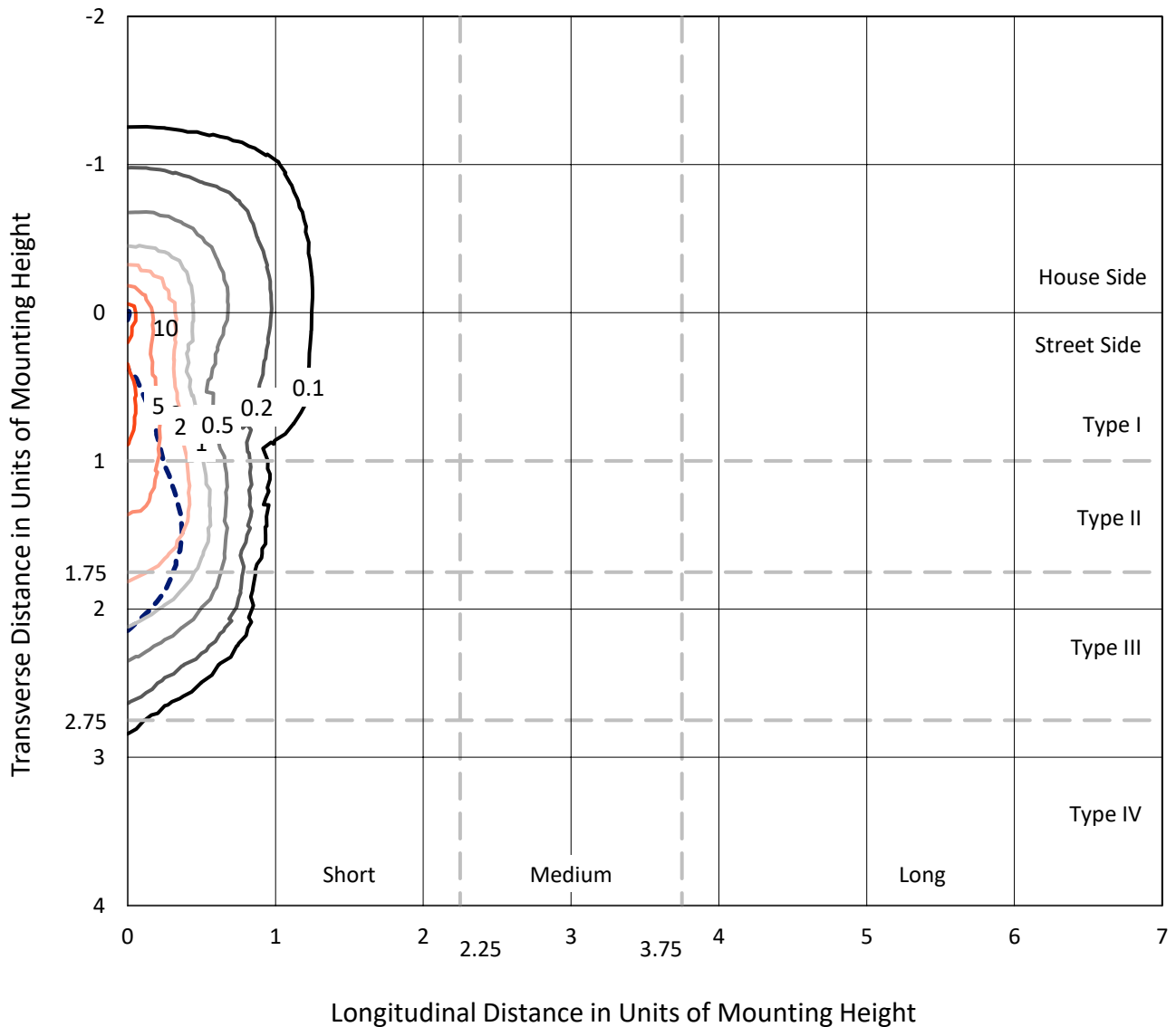
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

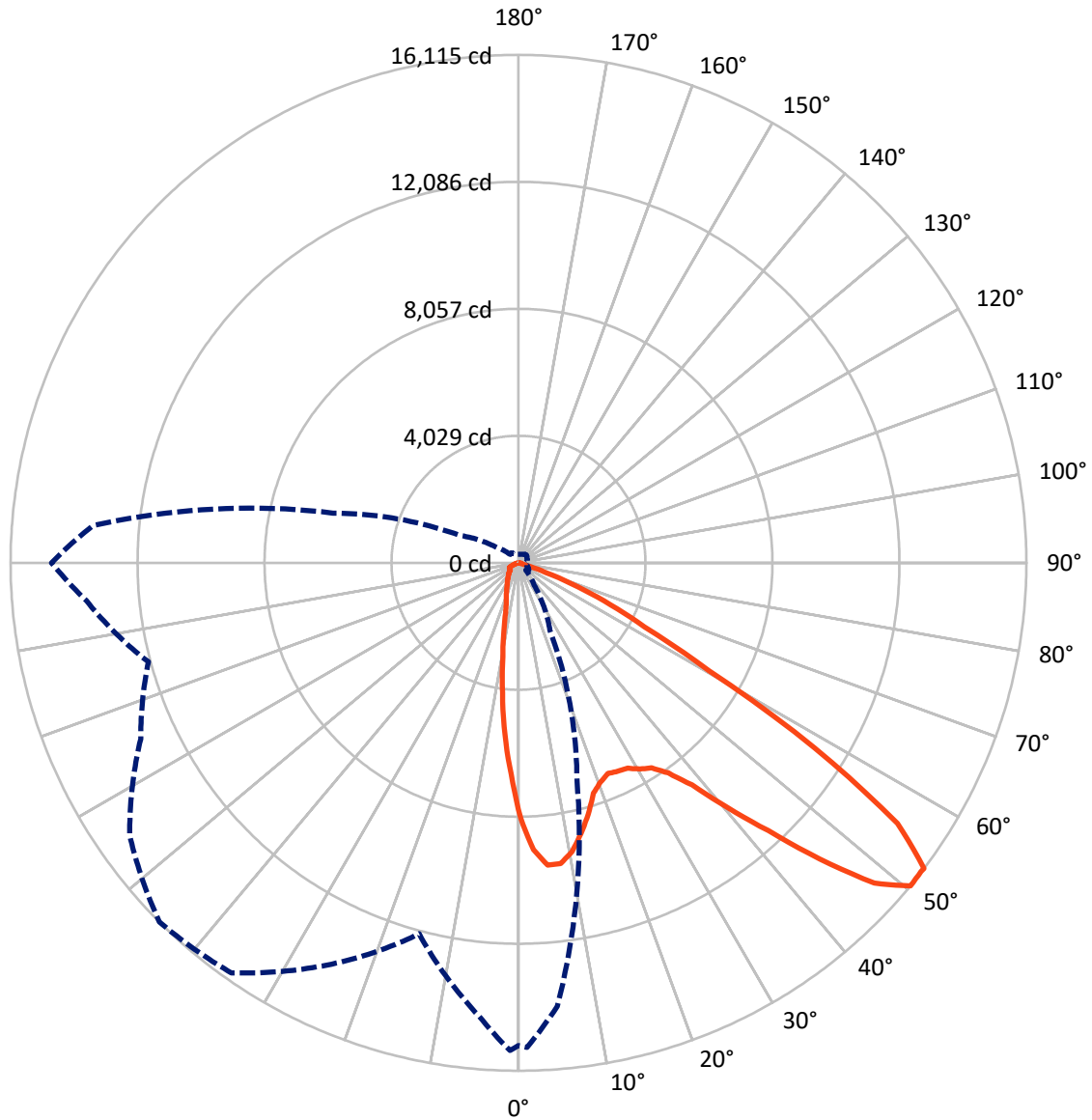
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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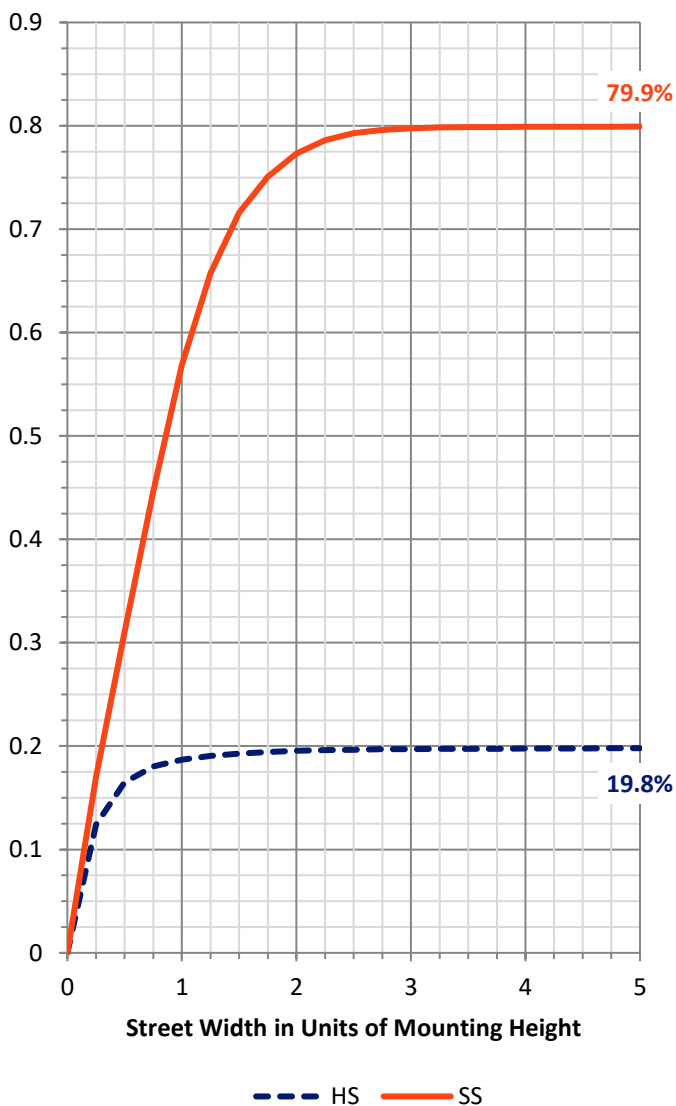
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3201.8	0.0	3201.8
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	12783.2	0.0	12783.2
	% Fixture	80.0	0.0	80.0
Total	Lumens	15985.0	0.0	15985.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.9	3.7
10°-20°	1174.3	7.3
20°-30°	1764.2	11.0
30°-40°	2648.0	16.6
40°-50°	3721.6	23.3
50°-60°	4014.4	25.1
60°-70°	1863.9	11.7
70°-80°	175.4	1.1
80°-90°	32.3	0.2
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°	15985.0	100.0
0°-180°	15985.0	100.0

Coefficient of Utilization

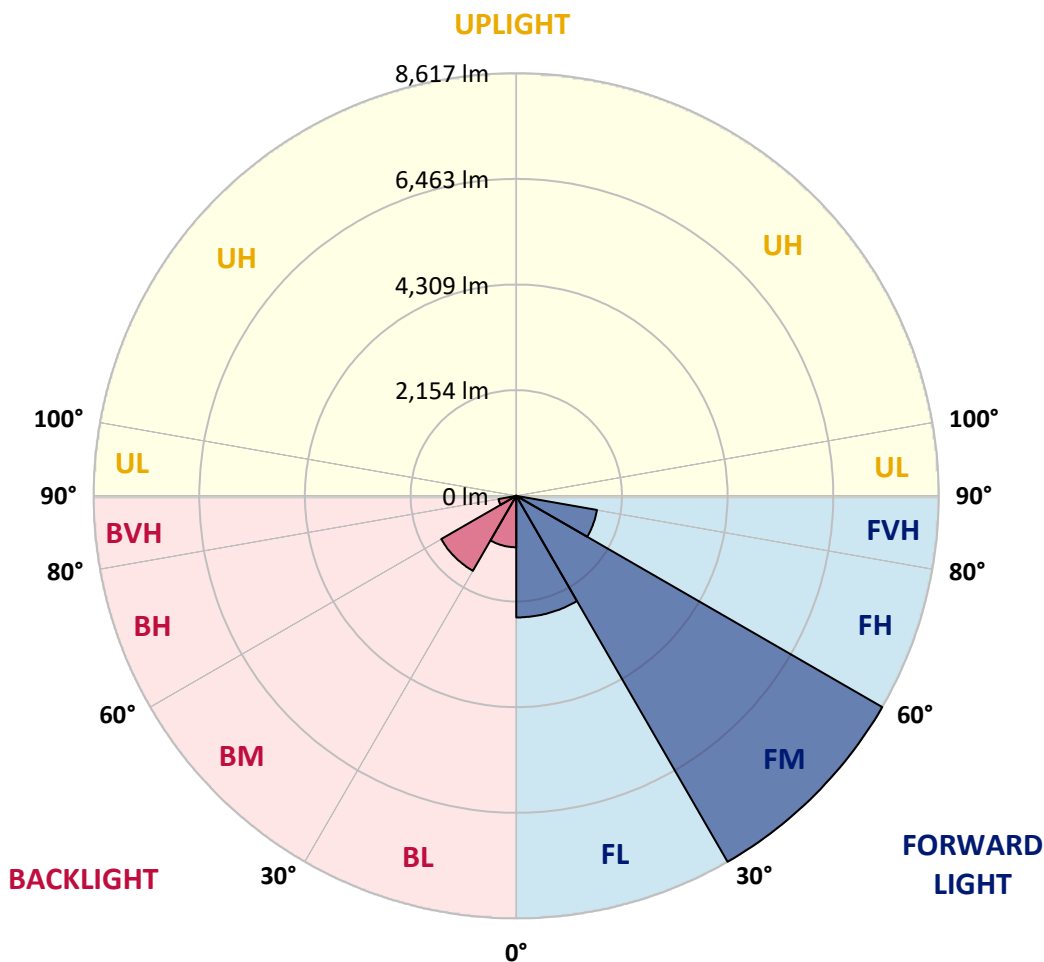


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2479.9	15.5			
FM (30°-60°)	8617.1	53.9			
FH (60°-80°)	1671.6	10.5			G1/1800
FVH (80°-90°)	14.6	0.1			G1/100
BL (0°-30°)	1049.5	6.6	B3/2500		
BM (30°-60°)	1766.9	11.1	B2/2500		
BH (60°-80°)	367.7	2.3	B1/500		G1/500
BVH (80°-90°)	17.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8106.4	8106.4	8106.4	8106.4	8106.4	8106.4	8106.4	8106.4	8106.4	8106.4	8106.4
2.5°	8426.7	8296.7	8131.8	7995.4	7792.4	7383.3	7272.3	7139.1	7028.1	6879.0	6669.7
5°	7662.4	7621.2	7545.0	7031.3	6660.2	6165.4	5759.4	5588.2	5363.0	5179.1	5045.9
7.5°	7078.8	6913.9	6672.9	6155.9	5562.8	5033.2	4582.8	4319.6	4021.5	3920.0	3739.2
10°	6454.0	6492.1	6136.8	5410.6	4693.9	4265.7	3986.6	3732.9	3463.3	3285.7	3028.8
12.5°	6254.2	6130.5	5857.8	4960.2	4348.2	3948.5	3609.2	3295.2	3009.8	2724.3	2476.9
15°	6384.3	6194.0	5813.4	4865.1	4081.7	3583.8	3158.9	2733.8	2470.6	2105.9	1849.0
17.5°	6850.5	6698.3	6187.6	4966.6	3945.4	3235.0	2603.8	2166.2	1763.4	1433.5	1303.5
20°	7627.5	7411.8	6771.1	5096.6	3742.3	2813.2	2112.2	1573.0	1192.5	1053.0	980.0
22.5°	8388.7	8271.3	7462.5	5347.2	3561.6	2438.9	1585.7	1059.3	891.2	865.8	818.2
25°	9838.0	9486.0	8518.6	5800.7	3422.0	2086.9	1195.6	853.2	754.8	735.8	742.1
27.5°	10700.7	10405.8	9495.5	6102.0	3266.7	1817.3	1011.7	783.4	716.8	675.5	659.7
30°	11528.4	11185.9	9980.7	6279.6	2933.7	1531.9	897.6	751.7	735.8	675.5	656.5
32.5°	12165.9	11829.7	10681.7	6546.0	2797.3	1347.9	739.0	586.7	545.5	539.2	596.3
35°	13142.7	12784.4	11281.1	6691.9	2692.6	1252.7	640.7	523.3	475.8	456.7	459.9
37.5°	14053.0	13808.8	11836.1	6749.0	2581.6	1224.2	574.0	469.4	428.1	415.5	412.3
40°	14814.1	14268.6	12362.6	6809.2	2534.0	1170.3	532.8	428.1	399.6	380.6	380.6
42.5°	15163.0	14608.0	12952.5	6774.4	2521.3	1084.7	532.8	393.3	371.1	352.0	348.9
45°	15086.8	14861.7	13215.7	6758.5	2521.3	999.0	485.2	383.7	352.0	326.7	320.3
47.5°	15283.5	14988.6	13545.5	6825.1	2470.6	938.7	409.1	402.8	333.0	301.3	295.0
50°	15318.4	15375.5	14119.6	7170.8	2359.6	862.6	320.3	396.4	320.3	272.7	266.4
52°	15546.8	15191.5	14294.0	7354.7	2242.3	805.6	269.6	339.4	307.6	253.7	247.3
52.5°	15232.8	15464.2	14335.2	7421.4	2255.0	767.5	260.0	333.0	301.3	253.7	237.9
55°	14880.8	15102.7	14167.1	7564.0	2067.8	602.6	203.0	241.0	272.7	222.0	212.5
57.5°	12933.4	13158.6	12311.8	6926.6	1684.1	425.0	168.1	180.8	241.0	206.2	196.6
60°	11496.7	11334.9	10332.8	5778.5	1195.6	237.9	133.2	139.5	263.2	190.3	187.1
62.5°	10507.2	10161.5	8636.0	4462.3	729.4	158.6	104.7	107.8	203.0	177.6	177.6
65°	7773.4	7386.4	5737.3	2698.9	358.4	111.0	79.3	85.7	126.8	152.2	152.2
67.5°	4436.9	4287.9	2771.9	1217.9	149.1	69.8	60.3	66.6	98.3	123.7	117.4
70°	2039.2	1829.9	1065.7	256.9	69.8	47.6	47.6	53.9	79.3	92.0	85.7
72.5°	596.3	564.5	260.0	41.3	28.6	28.6	31.7	41.3	60.3	69.8	63.4
75°	44.4	28.6	19.0	12.7	12.7	19.0	25.4	41.3	60.3	66.6	53.9
77.5°	3.2	6.3	3.2	3.2	9.6	19.0	28.6	50.7	79.3	82.4	60.3
80°	3.2	3.2	0.0	3.2	9.6	19.0	31.7	57.1	88.8	95.1	50.7
82.5°	0.0	0.0	0.0	3.2	12.7	25.4	38.1	60.3	82.4	101.5	53.9
85°	0.0	0.0	0.0	3.2	19.0	34.9	44.4	15.9	9.6	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8106.4	8106.4	8106.4	8106.4	8106.4	8106.4	8106.4	8106.4	8106.4	8106.4	8106.4
2.5°	6818.8	6736.3	6704.6	6733.1	6723.6	6714.1	6888.5	6850.5	6844.1	6901.2	6888.5
5°	5118.8	4972.9	5372.6	5210.8	5378.9	5480.4	5499.4	5509.0	5626.2	5502.5	5664.3
7.5°	3647.2	3685.3	3682.1	3790.0	3983.4	4154.7	4256.2	4176.9	4170.6	4154.7	4084.9
10°	2914.6	2848.0	2835.3	2810.0	2870.2	3016.1	3139.8	3041.5	2971.7	3066.9	3038.3
12.5°	2381.8	2289.8	2239.1	2137.6	2140.8	2239.1	2239.1	2239.1	2308.8	2362.8	2404.0
15°	1826.8	1750.7	1750.7	1649.2	1627.0	1630.1	1680.9	1687.2	1798.2	1829.9	1845.8
17.5°	1278.1	1236.9	1284.4	1325.7	1300.3	1306.7	1325.7	1332.0	1347.9	1335.2	1366.9
20°	983.1	976.8	989.5	1062.5	1116.4	1148.1	1125.9	1094.2	1075.1	1030.7	1030.7
22.5°	834.1	846.8	869.0	929.3	999.0	1018.1	992.7	919.7	862.6	856.3	859.5
25°	742.1	754.8	789.7	827.8	865.8	897.6	872.2	818.2	786.5	758.0	758.0
27.5°	685.0	691.4	710.4	739.0	770.7	796.1	786.5	758.0	723.1	710.4	681.8
30°	640.7	650.1	672.4	678.7	707.3	720.0	704.1	697.7	675.5	659.7	650.1
32.5°	618.4	615.3	631.1	637.4	640.7	650.1	631.1	640.7	637.4	612.1	602.6
35°	466.2	491.6	532.8	567.7	577.2	589.9	586.7	574.0	539.2	510.6	475.8
37.5°	418.7	434.5	456.7	485.2	523.3	539.2	532.8	501.1	459.9	440.8	434.5
40°	387.0	396.4	415.5	434.5	472.5	501.1	478.9	450.4	418.7	402.8	393.3
42.5°	358.4	361.6	371.1	390.1	418.7	463.1	425.0	387.0	374.3	364.7	358.4
45°	326.7	326.7	339.4	348.9	380.6	421.8	383.7	348.9	342.5	336.1	333.0
47.5°	301.3	304.4	310.8	323.5	348.9	377.4	352.0	323.5	307.6	304.4	298.1
50°	269.6	272.7	285.4	298.1	329.8	345.7	329.8	298.1	282.3	272.7	272.7
52°	244.2	253.7	266.4	291.7	314.0	339.4	320.3	285.4	266.4	256.9	250.6
52.5°	241.0	247.3	260.0	288.6	314.0	336.1	317.1	282.3	260.0	253.7	247.3
55°	215.6	225.2	247.3	282.3	310.8	336.1	310.8	279.1	247.3	231.5	225.2
57.5°	206.2	212.5	241.0	285.4	307.6	336.1	310.8	279.1	247.3	218.8	212.5
60°	196.6	209.3	241.0	275.9	304.4	339.4	314.0	275.9	241.0	206.2	206.2
62.5°	187.1	196.6	237.9	269.6	291.7	326.7	301.3	269.6	231.5	196.6	193.5
65°	161.8	177.6	209.3	225.2	250.6	282.3	256.9	234.7	203.0	174.5	171.2
67.5°	123.7	130.1	155.4	174.5	190.3	218.8	206.2	177.6	155.4	133.2	133.2
70°	85.7	92.0	111.0	120.5	136.4	152.2	142.7	120.5	104.7	92.0	88.8
72.5°	60.3	63.4	69.8	76.1	82.4	88.8	85.7	69.8	60.3	57.1	53.9
75°	47.6	53.9	57.1	53.9	50.7	47.6	47.6	41.3	34.9	31.7	31.7
77.5°	47.6	50.7	47.6	41.3	34.9	31.7	28.6	25.4	19.0	15.9	19.0
80°	41.3	41.3	41.3	34.9	31.7	28.6	25.4	22.2	19.0	15.9	15.9
82.5°	44.4	44.4	41.3	34.9	34.9	28.6	28.6	25.4	22.2	15.9	15.9
85°	0.0	0.0	0.0	6.3	15.9	28.6	28.6	25.4	22.2	19.0	19.0
87.5°	0.0	0.0	0.0	0.0	3.2	6.3	12.7	15.9	19.0	19.0	19.0
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°	8106.4	8106.4	8106.4	8106.4	8106.4	8106.4	8106.4	8106.4	8106.4	8106.4	8106.4
2.5°	7002.7	7123.2	7351.6	7579.9	7719.4	7884.3	8182.5	8341.1	8547.2	8648.7	8848.5
5°	5642.1	5927.5	6029.0	6289.1	6568.2	6847.3	7291.3	7779.7	8185.6	8464.8	8826.3
7.5°	4116.6	4183.3	4576.5	4750.9	5207.7	5715.0	6320.8	6936.1	7449.9	7906.6	8182.5
10°	3085.9	3330.1	3577.4	3910.5	4278.4	4801.7	5382.0	6060.7	6726.8	7183.5	7532.3
12.5°	2480.2	2673.6	3003.4	3361.8	3815.3	4161.0	4744.6	5417.0	6279.6	6726.8	7186.6
15°	1877.6	2124.9	2499.2	2870.2	3349.1	3713.8	4303.8	5150.5	6260.6	6875.8	7272.3
17.5°	1392.3	1560.4	1896.6	2312.0	2800.5	3314.2	4110.3	5122.0	6473.1	7205.6	7614.8
20°	1065.7	1122.7	1335.2	1706.2	2235.9	2908.3	3796.3	5245.7	7101.0	8008.1	8423.5
22.5°	862.6	888.0	970.5	1227.4	1741.2	2553.0	3647.2	5331.3	7808.2	8969.0	9524.0
25°	751.7	745.3	799.2	910.2	1360.5	2220.0	3456.9	5654.8	8674.1	10098.1	10596.0
27.5°	685.0	685.0	710.4	789.7	1129.1	2004.4	3336.4	5886.4	9546.3	11090.8	11360.4
30°	650.1	656.5	729.4	754.8	938.7	1747.5	3136.6	6121.0	10380.4	11725.1	12096.2
32.5°	602.6	577.2	561.3	624.8	789.7	1516.0	2936.8	6219.4	11055.9	12502.1	12819.3
35°	463.1	450.4	469.4	516.9	678.7	1319.4	2714.8	6330.3	11832.9	13402.8	13466.3
37.5°	418.7	415.5	428.1	469.4	570.9	1148.1	2556.3	6301.8	12426.0	14148.1	13976.9
40°	387.0	387.0	396.4	431.4	510.6	1027.5	2391.3	6276.4	13000.0	14985.4	14484.3
42.5°	361.6	361.6	377.4	399.6	485.2	948.3	2267.6	6241.5	13482.1	15499.2	14782.4
45°	326.7	336.1	361.6	383.7	491.6	894.3	2175.6	6108.3	13647.0	15492.8	14639.7
47.5°	301.3	314.0	339.4	371.1	444.0	878.5	2112.2	5991.0	13589.9	15112.2	14192.5
50°	272.7	288.6	323.5	377.4	377.4	846.8	2045.6	6095.7	13548.7	14817.3	13764.4
52°	253.7	266.4	310.8	367.9	329.8	780.2	2004.4	6298.6	13716.8	14779.2	13574.1
52.5°	250.6	260.0	301.3	361.6	314.0	767.5	1975.8	6346.2	13770.7	14684.1	13704.1
55°	222.0	234.7	275.9	282.3	256.9	631.1	1883.9	6454.0	13504.3	14497.0	13580.4
57.5°	209.3	215.6	244.2	231.5	222.0	475.8	1620.7	6285.9	11994.6	12876.4	12635.3
60°	193.5	199.8	228.3	180.8	187.1	333.0	1217.9	5458.1	9631.9	10729.2	11163.7
62.5°	187.1	183.9	215.6	145.9	158.6	241.0	859.5	4436.9	7421.4	8832.6	9584.3
65°	164.9	161.8	155.4	123.7	136.4	187.1	513.8	2895.6	5229.8	6682.4	7094.7
67.5°	126.8	133.2	114.2	98.3	114.2	145.9	285.4	1297.1	2743.3	4008.8	4341.8
70°	88.8	95.1	92.0	85.7	101.5	120.5	164.9	444.0	1135.4	2105.9	2321.5
72.5°	53.9	66.6	69.8	73.0	88.8	104.7	117.4	142.7	301.3	745.3	926.1
75°	31.7	44.4	53.9	63.4	73.0	88.8	98.3	101.5	104.7	139.5	225.2
77.5°	22.2	31.7	47.6	60.3	73.0	88.8	104.7	111.0	104.7	98.3	104.7
80°	19.0	31.7	44.4	57.1	76.1	92.0	104.7	104.7	101.5	88.8	95.1
82.5°	19.0	31.7	47.6	60.3	73.0	88.8	101.5	104.7	95.1	88.8	92.0
85°	22.2	34.9	50.7	63.4	79.3	73.0	66.6	53.9	50.7	41.3	44.4
87.5°	22.2	31.7	31.7	34.9	38.1	38.1	38.1	34.9	28.6	25.4	25.4
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°	8106.4	8106.4	8106.4	8106.4	8106.4	8106.4	8106.4	8106.4	8106.4	8106.4
2.5°	8858.0	9111.8	9102.2	9108.6	9070.5	8813.6	8690.0	8376.0	8464.8	8426.7
5°	9197.4	9447.9	9663.6	9638.3	9346.4	8997.6	8480.6	7992.2	7859.0	7662.4
7.5°	8858.0	9460.6	9660.4	9631.9	9200.6	8753.4	7928.8	7440.4	7208.8	7078.8
10°	8318.9	9016.6	9264.0	9314.7	9023.0	8344.3	7586.3	6802.9	6679.2	6454.0
12.5°	8011.3	8518.6	8670.9	8807.3	8705.8	8198.3	7326.2	6574.5	6403.3	6254.2
15°	7760.7	8062.0	8125.4	8280.9	8341.1	8068.3	7462.5	6821.9	6400.1	6384.3
17.5°	7992.2	7868.5	7637.0	7684.6	7874.9	8071.5	7814.6	7310.3	6901.2	6850.5
20°	8376.0	7830.5	7307.2	7424.5	7583.1	8185.6	8347.4	7992.2	7757.5	7627.5
22.5°	8816.8	7897.0	7202.5	7259.6	7560.9	8442.5	9210.0	9013.4	8575.7	8388.7
25°	9631.9	8081.0	7285.0	7323.0	7735.3	8800.9	9990.3	10136.2	9876.1	9838.0
27.5°	10427.9	8556.7	7465.7	7380.1	7824.1	9149.8	10462.8	11246.2	10789.5	10700.7
30°	10833.9	8943.7	7735.3	7589.5	8192.0	9362.3	10748.2	11969.3	11569.7	11528.4
32.5°	11455.5	9295.7	7944.6	7757.5	8398.1	9625.5	11281.1	12759.0	12372.0	12165.9
35°	11715.6	9679.4	8404.5	8185.6	8988.1	9993.4	11553.8	13463.1	13342.6	13142.7
37.5°	12216.7	10091.8	8946.9	8934.1	9701.7	10472.3	12045.4	14420.8	14398.7	14053.0
40°	12257.9	10542.1	9803.2	10202.7	10805.3	11306.4	12476.7	14687.3	15048.8	14814.1
42.5°	12321.3	11331.8	11284.2	11614.1	12131.0	12023.2	12492.6	14750.7	15302.6	15163.0
45°	12349.9	12121.5	12790.7	13399.6	13615.3	12961.9	12343.5	14630.2	15435.7	15086.8
47.5°	12121.5	12800.2	14008.6	15185.2	15248.6	13539.2	12280.1	14506.5	15515.1	15283.5
50°	12153.3	13225.2	15061.5	16114.5	15882.9	14049.8	12181.8	14430.4	15473.8	15318.4
52°	12077.1	13234.7	15210.6	16095.4	15933.7	13767.6	12013.6	14138.6	15435.7	15546.8
52.5°	12162.7	13177.7	15055.1	16108.1	15898.8	13907.1	11991.5	14300.3	15457.9	15232.8
55°	11867.8	12499.0	14145.0	14592.1	14560.4	12622.6	11309.6	13764.4	14877.5	14880.8
57.5°	10726.1	10833.9	11093.9	11084.5	10938.5	9923.7	9673.1	12657.5	13263.2	12933.4
60°	9451.1	7931.9	7231.1	6945.6	6783.8	6618.9	8556.7	11579.2	11636.2	11496.7
62.5°	8166.6	5499.4	4567.0	4487.7	4525.7	5128.3	8271.3	11151.0	10808.5	10507.2
65°	6590.4	4008.8	3317.4	3212.7	3583.8	4234.0	6695.0	8550.4	8023.9	7773.4
67.5°	4138.9	2924.1	2242.3	2045.6	2492.8	2914.6	4398.9	5372.6	4782.6	4436.9
70°	2454.8	1633.3	1014.8	910.2	1024.4	1554.0	2464.3	2679.9	2216.9	2039.2
72.5°	967.3	599.4	282.3	241.0	250.6	545.5	907.0	884.9	669.2	596.3
75°	260.0	180.8	98.3	79.3	66.6	101.5	145.9	95.1	34.9	44.4
77.5°	120.5	107.8	85.7	66.6	50.7	38.1	19.0	6.3	6.3	3.2
80°	104.7	92.0	79.3	66.6	50.7	31.7	15.9	3.2	3.2	3.2
82.5°	98.3	85.7	73.0	60.3	47.6	31.7	15.9	3.2	0.0	0.0
85°	41.3	53.9	60.3	57.1	50.7	31.7	15.9	3.2	0.0	0.0
87.5°	22.2	19.0	15.9	12.7	9.6	6.3	6.3	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

(END OF REPORT)