

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: P648438

Luminaire Tested: **GALN-SA5B-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648438
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-SA5B-835-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA 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: 12335.4 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

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

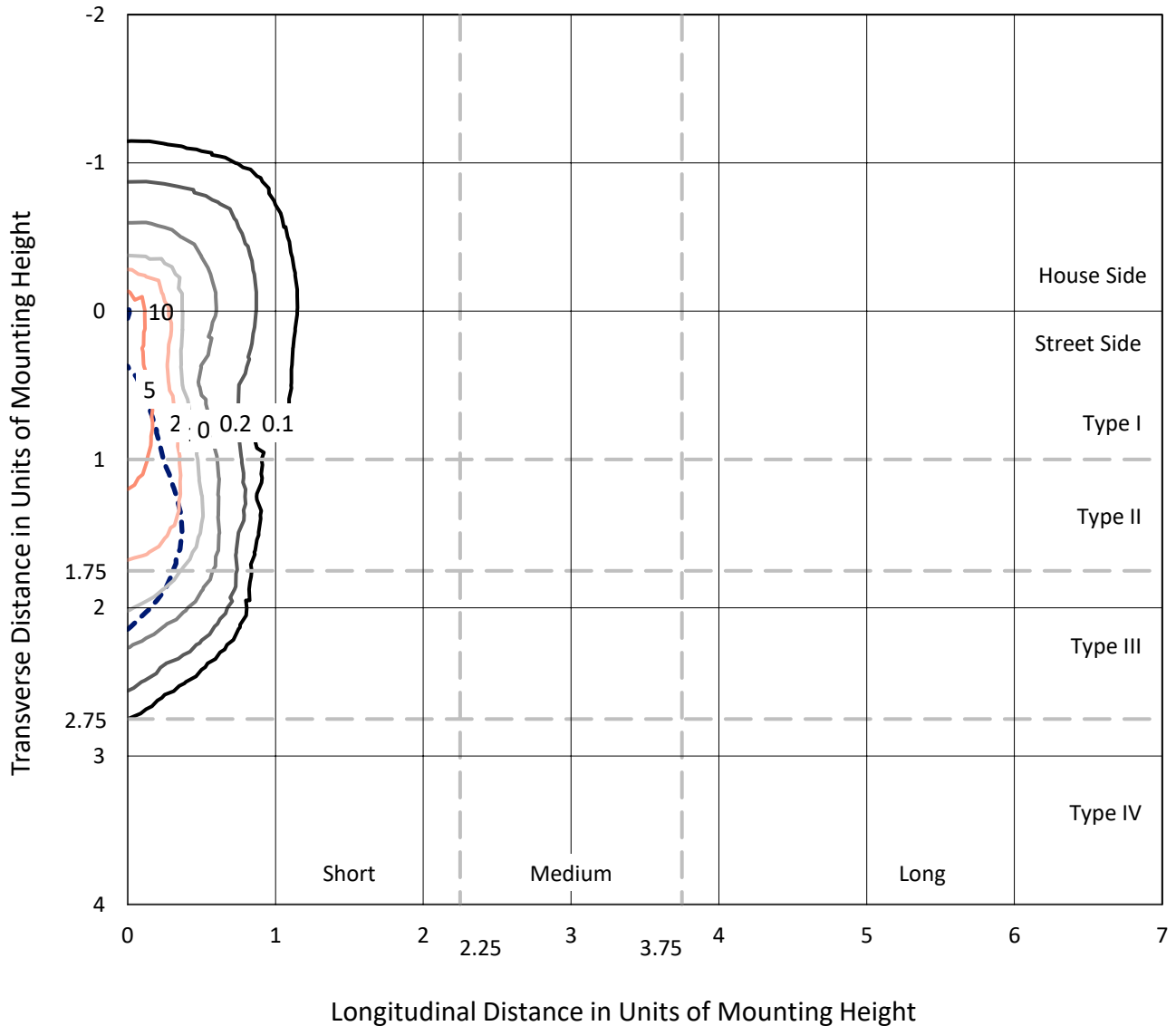




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Iso-Footcandle Lines of Horizontal Illumination

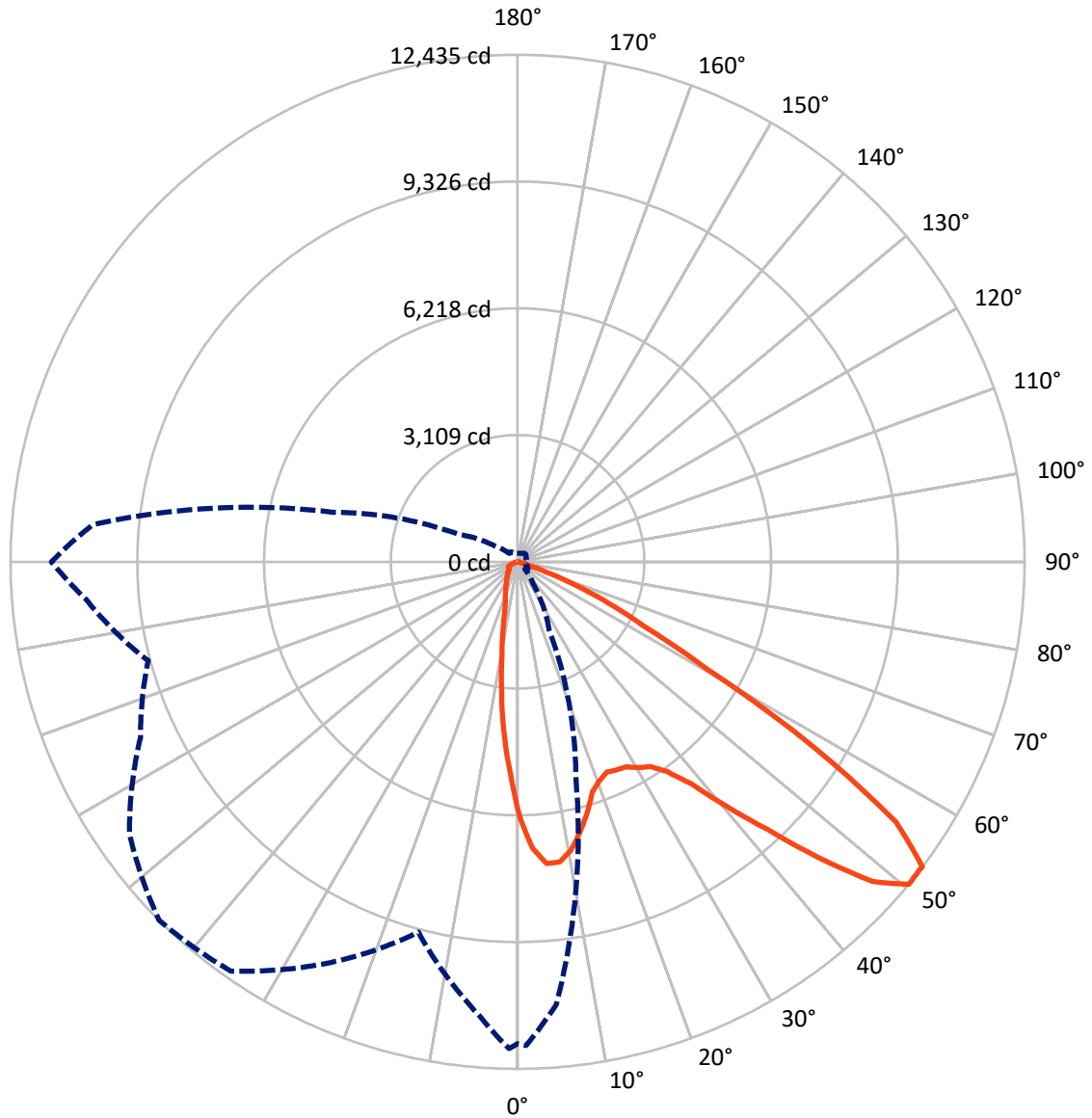
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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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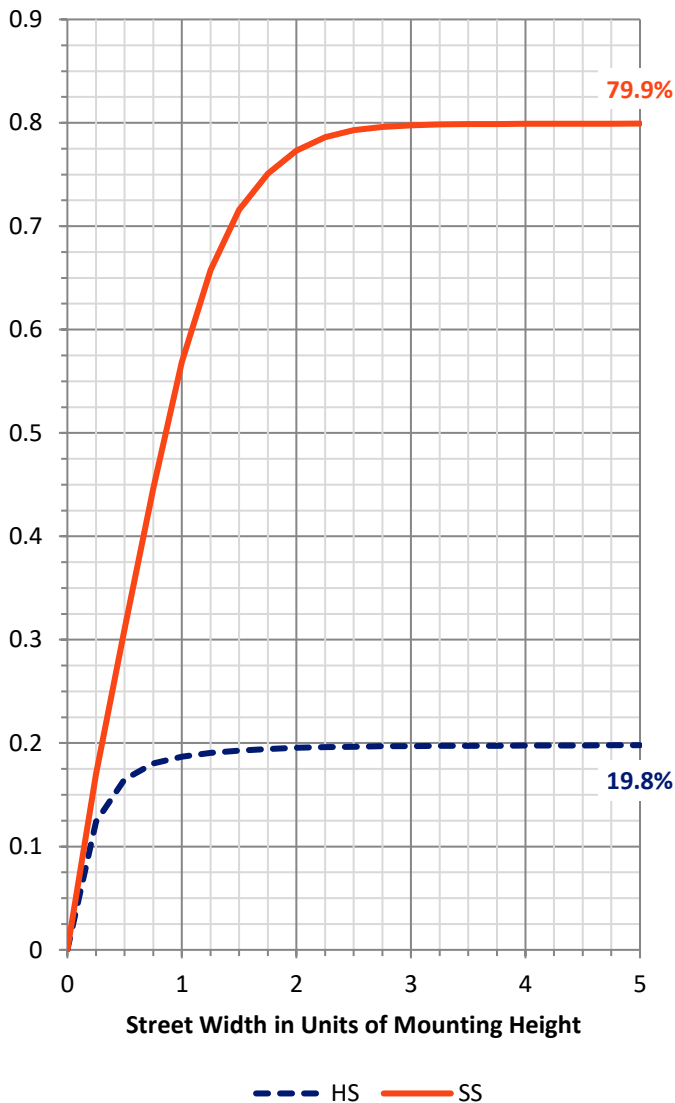
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2470.8	0.0	2470.8
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	9864.6	0.0	9864.6
	% Fixture	80.0	0.0	80.0
Total	Lumens	12335.4	0.0	12335.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.0	3.7
10°-20°	906.2	7.3
20°-30°	1361.4	11.0
30°-40°	2043.4	16.6
40°-50°	2871.9	23.3
50°-60°	3097.9	25.1
60°-70°	1438.3	11.7
70°-80°	135.3	1.1
80°-90°	24.9	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°	12335.4	100.0
0°-180°	12335.4	100.0

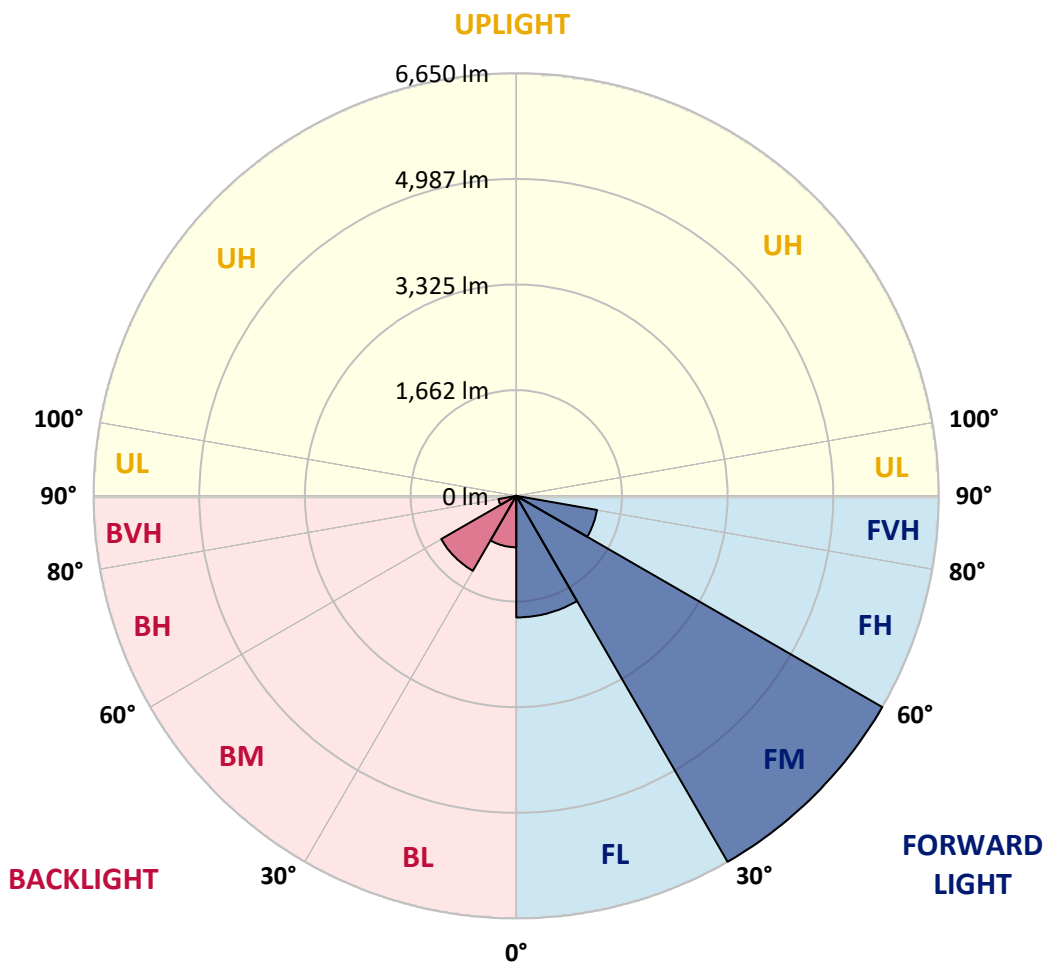


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1913.7	15.5			
FM (30°-60°)	6649.7	53.9			
FH (60°-80°)	1289.9	10.5			G1/1800
FVH (80°-90°)	11.2	0.1			G1/100
BL (0°-30°)	809.9	6.6	B2/1000		
BM (30°-60°)	1363.5	11.1	B2/2500		
BH (60°-80°)	283.7	2.3	B1/500		G1/500
BVH (80°-90°)	13.7	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-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6255.6	6255.6	6255.6	6255.6	6255.6	6255.6	6255.6	6255.6	6255.6	6255.6	6255.6
2.5°	6502.8	6402.4	6275.2	6170.0	6013.3	5697.6	5611.9	5509.1	5423.4	5308.4	5146.9
5°	5913.0	5881.1	5822.4	5426.0	5139.5	4757.7	4444.5	4312.4	4138.5	3996.7	3893.9
7.5°	5462.6	5335.4	5149.4	4750.5	4292.8	3884.1	3536.5	3333.4	3103.3	3025.0	2885.5
10°	4980.5	5009.9	4735.7	4175.3	3622.2	3291.8	3076.4	2880.6	2672.6	2535.5	2337.3
12.5°	4826.3	4730.9	4520.3	3827.8	3355.4	3047.0	2785.1	2542.9	2322.6	2102.4	1911.5
15°	4926.6	4779.8	4486.1	3754.3	3149.9	2765.6	2437.6	2109.6	1906.5	1625.1	1426.9
17.5°	5286.4	5169.0	4774.9	3832.6	3044.6	2496.4	2009.3	1671.5	1360.8	1106.2	1005.9
20°	5886.0	5719.6	5225.2	3933.0	2887.9	2170.9	1630.0	1213.9	920.3	812.5	756.2
22.5°	6473.5	6382.9	5758.7	4126.3	2748.4	1882.1	1223.7	817.5	687.7	668.1	631.4
25°	7591.9	7320.2	6573.8	4476.3	2640.7	1610.4	922.7	658.3	582.5	567.8	572.7
27.5°	8257.6	8030.0	7327.5	4708.8	2520.9	1402.4	780.7	604.5	553.1	521.3	509.0
30°	8896.4	8632.0	7702.0	4845.9	2263.9	1182.1	692.6	580.0	567.8	521.3	506.6
32.5°	9388.2	9128.8	8242.9	5051.4	2158.7	1040.1	570.3	452.8	420.9	416.1	460.1
35°	10142.1	9865.6	8705.5	5164.0	2077.8	966.7	494.4	403.8	367.1	352.4	354.9
37.5°	10844.5	10656.1	9133.8	5208.1	1992.2	944.7	442.9	362.2	330.4	320.6	318.1
40°	11431.9	11010.9	9540.0	5254.6	1955.5	903.1	411.2	330.4	308.3	293.7	293.7
42.5°	11701.1	11272.8	9995.2	5227.7	1945.7	837.0	411.2	303.5	286.3	271.7	269.2
45°	11642.3	11468.6	10198.4	5215.4	1945.7	770.9	374.4	296.1	271.7	252.0	247.2
47.5°	11794.1	11566.5	10452.9	5266.8	1906.5	724.4	315.7	310.9	257.0	232.5	227.6
50°	11821.0	11865.0	10895.9	5533.6	1820.9	665.7	247.2	305.9	247.2	210.5	205.6
52°	11997.2	11723.2	11030.5	5675.6	1730.4	621.6	208.0	261.8	237.4	195.8	190.9
52.5°	11754.9	11933.6	11062.3	5726.9	1740.1	592.3	200.7	257.0	232.5	195.8	183.5
55°	11483.2	11654.6	10932.6	5837.1	1595.7	465.0	156.6	186.0	210.5	171.3	164.0
57.5°	9980.6	10154.3	9500.8	5345.1	1299.5	327.9	129.7	139.5	186.0	159.1	151.7
60°	8871.9	8747.0	7973.7	4459.2	922.7	183.5	102.8	107.7	203.1	146.8	144.4
62.5°	8108.3	7841.5	6664.3	3443.5	562.9	122.4	80.7	83.2	156.6	137.0	137.0
65°	5998.6	5700.0	4427.4	2082.8	276.6	85.7	61.2	66.1	97.9	117.4	117.4
67.5°	3423.9	3308.9	2139.1	939.8	115.0	53.9	46.5	51.4	75.9	95.4	90.6
70°	1573.7	1412.1	822.3	198.3	53.9	36.7	36.7	41.6	61.2	70.9	66.1
72.5°	460.1	435.7	200.7	31.8	22.0	22.0	24.5	31.8	46.5	53.9	48.9
75°	34.3	22.0	14.7	9.8	9.8	14.7	19.6	31.8	46.5	51.4	41.6
77.5°	2.4	4.9	2.4	2.4	7.4	14.7	22.0	39.2	61.2	63.7	46.5
80°	2.4	2.4	0.0	2.4	7.4	14.7	24.5	44.1	68.5	73.4	39.2
82.5°	0.0	0.0	0.0	2.4	9.8	19.6	29.4	46.5	63.7	78.3	41.6
85°	0.0	0.0	0.0	2.4	14.7	26.9	34.3	12.2	7.4	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°	6255.6	6255.6	6255.6	6255.6	6255.6	6255.6	6255.6	6255.6	6255.6	6255.6	6255.6
2.5°	5261.9	5198.3	5173.8	5195.8	5188.5	5181.2	5315.8	5286.4	5281.5	5325.6	5315.8
5°	3950.2	3837.6	4145.9	4021.1	4150.8	4229.1	4243.8	4251.1	4341.7	4246.3	4371.1
7.5°	2814.5	2843.9	2841.4	2924.7	3074.0	3206.2	3284.5	3223.2	3218.4	3206.2	3152.3
10°	2249.2	2197.8	2188.0	2168.4	2214.9	2327.5	2422.9	2347.0	2293.3	2366.6	2344.6
12.5°	1838.0	1767.0	1727.8	1649.5	1652.0	1727.8	1727.8	1727.8	1781.7	1823.3	1855.2
15°	1409.7	1351.0	1351.0	1272.7	1255.5	1258.0	1297.1	1302.1	1387.7	1412.1	1424.4
17.5°	986.3	954.5	991.2	1023.0	1003.4	1008.3	1023.0	1027.9	1040.1	1030.3	1054.9
20°	758.7	753.8	763.6	819.9	861.5	886.0	868.8	844.4	829.7	795.4	795.4
22.5°	643.7	653.5	670.6	717.1	770.9	785.6	766.0	709.8	665.7	660.8	663.3
25°	572.7	582.5	609.4	638.8	668.1	692.6	673.1	631.4	607.0	584.9	584.9
27.5°	528.6	533.5	548.3	570.3	594.7	614.3	607.0	584.9	558.0	548.3	526.2
30°	494.4	501.7	518.8	523.7	545.8	555.5	543.3	538.5	521.3	509.0	501.7
32.5°	477.2	474.8	487.0	492.0	494.4	501.7	487.0	494.4	492.0	472.4	465.0
35°	359.8	379.4	411.2	438.1	445.4	455.2	452.8	442.9	416.1	394.0	367.1
37.5°	323.1	335.3	352.4	374.4	403.8	416.1	411.2	386.7	354.9	340.2	335.3
40°	298.6	305.9	320.6	335.3	364.6	386.7	369.6	347.5	323.1	310.9	303.5
42.5°	276.6	279.0	286.3	301.1	323.1	357.4	327.9	298.6	288.8	281.5	276.6
45°	252.0	252.0	261.8	269.2	293.7	325.5	296.1	269.2	264.3	259.4	257.0
47.5°	232.5	235.0	239.8	249.6	269.2	291.3	271.7	249.6	237.4	235.0	230.0
50°	208.0	210.5	220.3	230.0	254.6	266.8	254.6	230.0	217.8	210.5	210.5
52°	188.5	195.8	205.6	225.2	242.3	261.8	247.2	220.3	205.6	198.3	193.3
52.5°	186.0	190.9	200.7	222.7	242.3	259.4	244.8	217.8	200.7	195.8	190.9
55°	166.4	173.7	190.9	217.8	239.8	259.4	239.8	215.4	190.9	178.7	173.7
57.5°	159.1	164.0	186.0	220.3	237.4	259.4	239.8	215.4	190.9	168.9	164.0
60°	151.7	161.5	186.0	212.9	235.0	261.8	242.3	212.9	186.0	159.1	159.1
62.5°	144.4	151.7	183.5	208.0	225.2	252.0	232.5	208.0	178.7	151.7	149.3
65°	124.8	137.0	161.5	173.7	193.3	217.8	198.3	181.1	156.6	134.6	132.2
67.5°	95.4	100.4	120.0	134.6	146.8	168.9	159.1	137.0	120.0	102.8	102.8
70°	66.1	70.9	85.7	93.0	105.2	117.4	110.2	93.0	80.7	70.9	68.5
72.5°	46.5	48.9	53.9	58.7	63.7	68.5	66.1	53.9	46.5	44.1	41.6
75°	36.7	41.6	44.1	41.6	39.2	36.7	36.7	31.8	26.9	24.5	24.5
77.5°	36.7	39.2	36.7	31.8	26.9	24.5	22.0	19.6	14.7	12.2	14.7
80°	31.8	31.8	31.8	26.9	24.5	22.0	19.6	17.1	14.7	12.2	12.2
82.5°	34.3	34.3	31.8	26.9	26.9	22.0	22.0	19.6	17.1	12.2	12.2
85°	0.0	0.0	0.0	4.9	12.2	22.0	22.0	19.6	17.1	14.7	14.7
87.5°	0.0	0.0	0.0	0.0	2.4	4.9	9.8	12.2	14.7	14.7	14.7
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°	6255.6	6255.6	6255.6	6255.6	6255.6	6255.6	6255.6	6255.6	6255.6	6255.6	6255.6
2.5°	5403.9	5496.9	5673.1	5849.3	5957.0	6084.3	6314.3	6436.7	6595.8	6674.1	6828.3
5°	4353.9	4574.2	4652.5	4853.2	5068.6	5284.0	5626.6	6003.5	6316.8	6532.2	6811.2
7.5°	3176.7	3228.2	3531.6	3666.2	4018.7	4410.2	4877.7	5352.5	5748.9	6101.4	6314.3
10°	2381.3	2569.8	2760.7	3017.7	3301.6	3705.4	4153.3	4677.0	5191.0	5543.4	5812.6
12.5°	1913.9	2063.2	2317.7	2594.2	2944.2	3211.0	3661.3	4180.2	4845.9	5191.0	5545.8
15°	1448.9	1639.8	1928.5	2214.9	2584.4	2865.9	3321.2	3974.6	4831.2	5306.0	5611.9
17.5°	1074.4	1204.1	1463.6	1784.1	2161.1	2557.5	3171.9	3952.6	4995.1	5560.6	5876.3
20°	822.3	866.4	1030.3	1316.7	1725.4	2244.3	2929.6	4048.0	5479.7	6179.7	6500.3
22.5°	665.7	685.3	748.9	947.1	1343.6	1970.2	2814.5	4114.1	6025.5	6921.3	7349.6
25°	580.0	575.1	616.8	702.4	1049.9	1713.2	2667.7	4363.7	6693.7	7792.6	8176.8
27.5°	528.6	528.6	548.3	609.4	871.2	1546.7	2574.7	4542.4	7366.7	8558.6	8766.6
30°	501.7	506.6	562.9	582.5	724.4	1348.6	2420.5	4723.5	8010.4	9048.1	9334.5
32.5°	465.0	445.4	433.2	482.2	609.4	1169.9	2266.3	4799.4	8531.7	9647.7	9892.4
35°	357.4	347.5	362.2	398.9	523.7	1018.1	2095.0	4885.1	9131.3	10342.8	10391.7
37.5°	323.1	320.6	330.4	362.2	440.5	886.0	1972.6	4863.0	9589.0	10917.9	10785.7
40°	298.6	298.6	305.9	332.9	394.0	792.9	1845.4	4843.4	10032.0	11564.0	11177.3
42.5°	279.0	279.0	291.3	308.3	374.4	731.8	1749.9	4816.5	10404.0	11960.5	11407.4
45°	252.0	259.4	279.0	296.1	379.4	690.1	1678.9	4713.7	10531.2	11955.6	11297.3
47.5°	232.5	242.3	261.8	286.3	342.6	677.9	1630.0	4623.1	10487.2	11661.9	10952.2
50°	210.5	222.7	249.6	291.3	291.3	653.5	1578.6	4704.0	10455.3	11434.3	10621.8
52°	195.8	205.6	239.8	283.9	254.6	602.0	1546.7	4860.6	10585.1	11404.9	10475.0
52.5°	193.3	200.7	232.5	279.0	242.3	592.3	1524.7	4897.3	10626.6	11331.5	10575.3
55°	171.3	181.1	212.9	217.8	198.3	487.0	1453.8	4980.5	10421.1	11187.1	10479.8
57.5°	161.5	166.4	188.5	178.7	171.3	367.1	1250.6	4850.8	9256.2	9936.5	9750.5
60°	149.3	154.2	176.2	139.5	144.4	257.0	939.8	4212.0	7432.8	8279.6	8614.9
62.5°	144.4	142.0	166.4	112.6	122.4	186.0	663.3	3423.9	5726.9	6816.0	7396.1
65°	127.2	124.8	120.0	95.4	105.2	144.4	396.5	2234.5	4035.8	5156.7	5474.9
67.5°	97.9	102.8	88.1	75.9	88.1	112.6	220.3	1001.0	2117.0	3093.6	3350.5
70°	68.5	73.4	70.9	66.1	78.3	93.0	127.2	342.6	876.2	1625.1	1791.5
72.5°	41.6	51.4	53.9	56.3	68.5	80.7	90.6	110.2	232.5	575.1	714.6
75°	24.5	34.3	41.6	48.9	56.3	68.5	75.9	78.3	80.7	107.7	173.7
77.5°	17.1	24.5	36.7	46.5	56.3	68.5	80.7	85.7	80.7	75.9	80.7
80°	14.7	24.5	34.3	44.1	58.7	70.9	80.7	80.7	78.3	68.5	73.4
82.5°	14.7	24.5	36.7	46.5	56.3	68.5	78.3	80.7	73.4	68.5	70.9
85°	17.1	26.9	39.2	48.9	61.2	56.3	51.4	41.6	39.2	31.8	34.3
87.5°	17.1	24.5	24.5	26.9	29.4	29.4	29.4	26.9	22.0	19.6	19.6
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°	6255.6	6255.6	6255.6	6255.6	6255.6	6255.6	6255.6	6255.6	6255.6	6255.6
2.5°	6835.7	7031.4	7024.1	7029.0	6999.6	6801.4	6705.9	6463.6	6532.2	6502.8
5°	7097.5	7290.8	7457.3	7437.7	7212.5	6943.3	6544.4	6167.5	6064.7	5913.0
7.5°	6835.7	7300.6	7454.9	7432.8	7099.9	6754.9	6118.5	5741.7	5563.0	5462.6
10°	6419.6	6958.0	7148.9	7188.1	6962.9	6439.2	5854.3	5249.7	5154.3	4980.5
12.5°	6182.2	6573.8	6691.2	6796.4	6718.1	6326.6	5653.5	5073.5	4941.4	4826.3
15°	5988.9	6221.3	6270.3	6390.2	6436.7	6226.3	5758.7	5264.4	4938.9	4926.6
17.5°	6167.5	6072.0	5893.4	5930.1	6076.9	6228.7	6030.4	5641.3	5325.6	5286.4
20°	6463.6	6042.6	5638.9	5729.4	5851.8	6316.8	6441.6	6167.5	5986.3	5886.0
22.5°	6803.8	6094.1	5558.0	5602.1	5834.6	6515.0	7107.3	6955.5	6617.8	6473.5
25°	7432.8	6236.0	5621.7	5651.1	5969.3	6791.6	7709.3	7821.9	7621.3	7591.9
27.5°	8047.1	6603.1	5761.2	5695.2	6037.8	7060.8	8074.1	8678.5	8326.1	8257.6
30°	8360.4	6901.7	5969.3	5856.7	6321.7	7224.7	8294.3	9236.6	8928.2	8896.4
32.5°	8840.1	7173.4	6130.8	5986.3	6480.7	7427.9	8705.5	9846.0	9547.4	9388.2
35°	9040.8	7469.5	6485.7	6316.8	6936.0	7711.8	8915.9	10389.3	10296.3	10142.1
37.5°	9427.5	7787.6	6904.2	6894.4	7486.7	8081.3	9295.3	11128.4	11111.2	10844.5
40°	9459.3	8135.2	7565.0	7873.3	8338.3	8725.0	9628.2	11334.0	11613.0	11431.9
42.5°	9508.2	8744.6	8707.9	8962.5	9361.4	9278.2	9640.4	11382.9	11808.8	11701.1
45°	9530.2	9354.0	9870.4	10340.3	10506.8	10002.6	9525.4	11289.9	11911.5	11642.3
47.5°	9354.0	9877.8	10810.3	11718.2	11767.2	10448.0	9476.4	11194.5	11972.8	11794.1
50°	9378.5	10205.7	11622.8	12435.3	12256.7	10842.0	9400.5	11135.7	11940.9	11821.0
52°	9319.7	10213.1	11737.8	12420.7	12295.8	10624.2	9270.8	10910.6	11911.5	11997.2
52.5°	9385.8	10169.0	11617.9	12430.4	12268.9	10732.0	9253.7	11035.4	11928.7	11754.9
55°	9158.2	9645.2	10915.5	11260.6	11236.1	9740.7	8727.5	10621.8	11480.8	11483.2
57.5°	8277.2	8360.4	8561.1	8553.7	8441.1	7658.0	7464.7	9767.6	10235.1	9980.6
60°	7293.3	6121.0	5580.1	5359.9	5235.1	5107.7	6603.1	8935.5	8979.6	8871.9
62.5°	6302.1	4243.8	3524.3	3463.1	3492.5	3957.4	6382.9	8605.1	8340.8	8108.3
65°	5085.7	3093.6	2560.0	2479.2	2765.6	3267.3	5166.5	6598.3	6192.0	5998.6
67.5°	3193.9	2256.5	1730.4	1578.6	1923.7	2249.2	3394.5	4145.9	3690.7	3423.9
70°	1894.3	1260.4	783.2	702.4	790.5	1199.2	1901.7	2068.1	1710.8	1573.7
72.5°	746.4	462.6	217.8	186.0	193.3	420.9	699.9	682.9	516.4	460.1
75°	200.7	139.5	75.9	61.2	51.4	78.3	112.6	73.4	26.9	34.3
77.5°	93.0	83.2	66.1	51.4	39.2	29.4	14.7	4.9	4.9	2.4
80°	80.7	70.9	61.2	51.4	39.2	24.5	12.2	2.4	2.4	2.4
82.5°	75.9	66.1	56.3	46.5	36.7	24.5	12.2	2.4	0.0	0.0
85°	31.8	41.6	46.5	44.1	39.2	24.5	12.2	2.4	0.0	0.0
87.5°	17.1	14.7	12.2	9.8	7.4	4.9	4.9	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)