

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: P652343

Luminaire Tested: **GALN-SA4B-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652343
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-SA4B-840-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 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: 10465.4 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 164
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

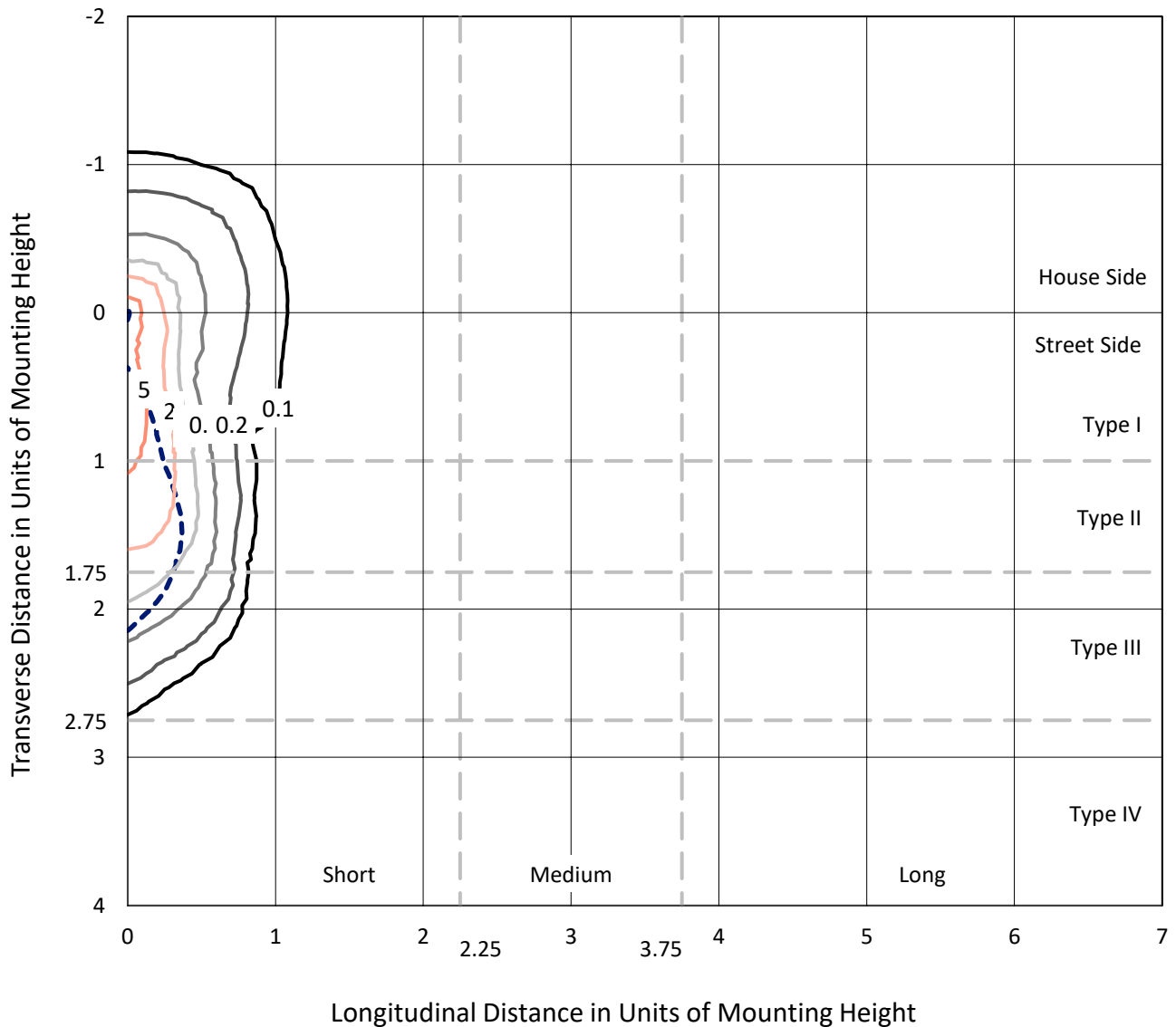




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Iso-Footcandle Lines of Horizontal Illumination

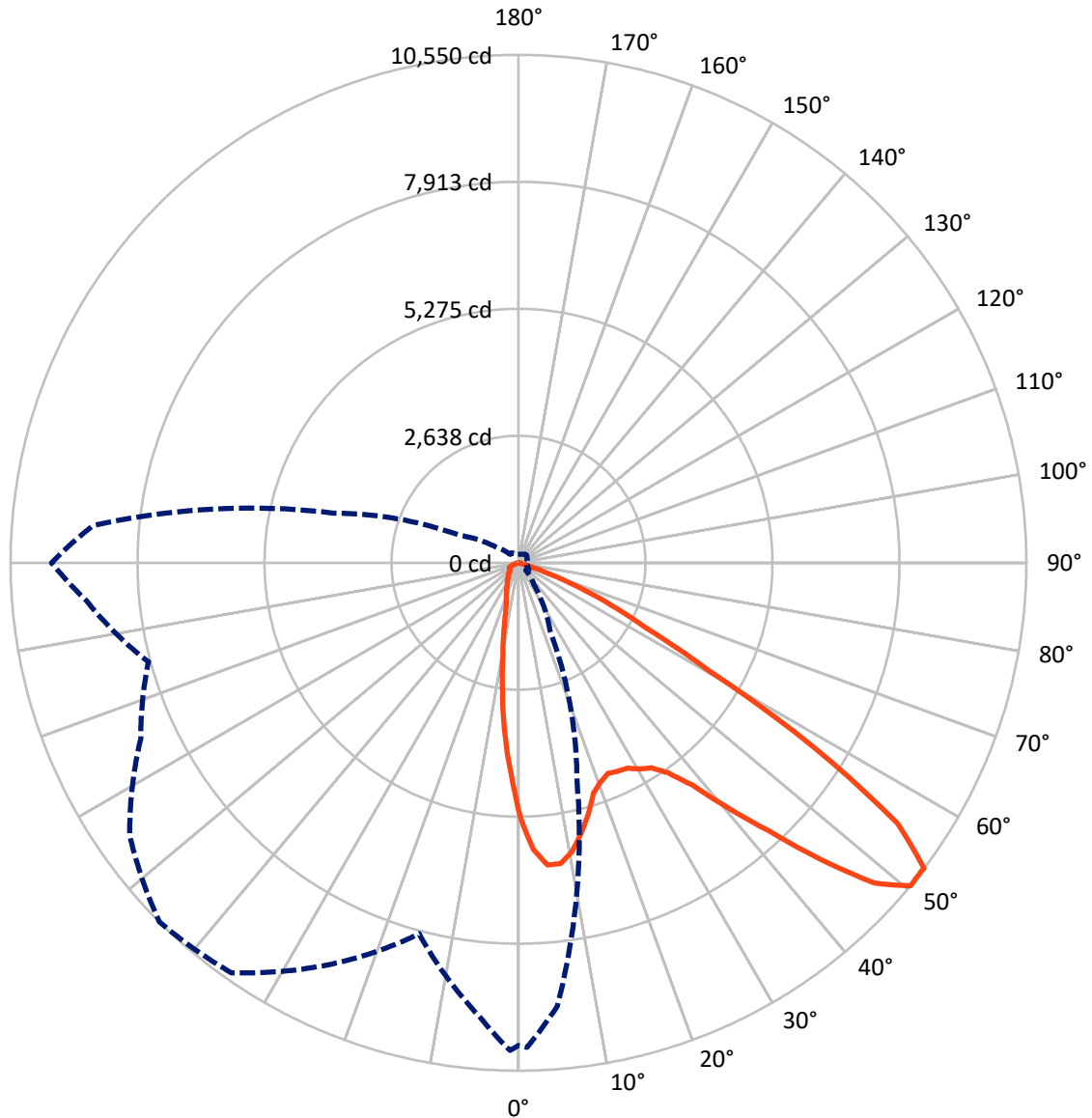
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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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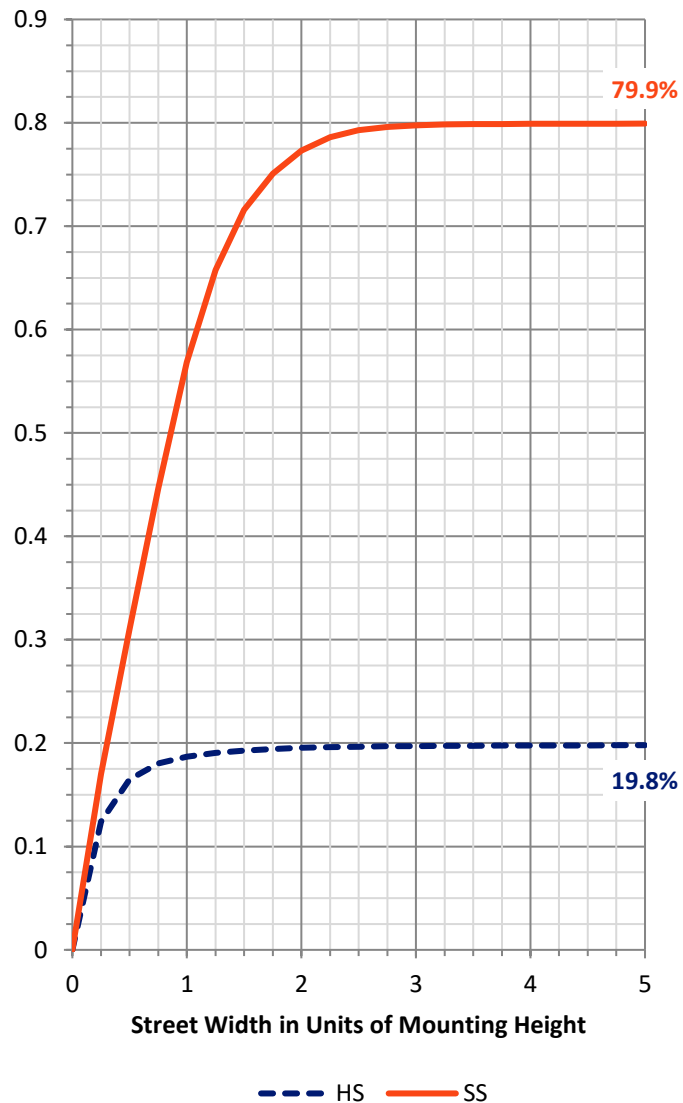
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2096.2	0.0	2096.2
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	8369.2	0.0	8369.2
	% Fixture	80.0	0.0	80.0
Total	Lumens	10465.4	0.0	10465.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.8	3.7
10°-20°	768.8	7.3
20°-30°	1155.0	11.0
30°-40°	1733.7	16.6
40°-50°	2436.5	23.3
50°-60°	2628.2	25.1
60°-70°	1220.3	11.7
70°-80°	114.8	1.1
80°-90°	21.2	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°	10465.4	100.0
0°-180°	10465.4	100.0

Coefficient of Utilization



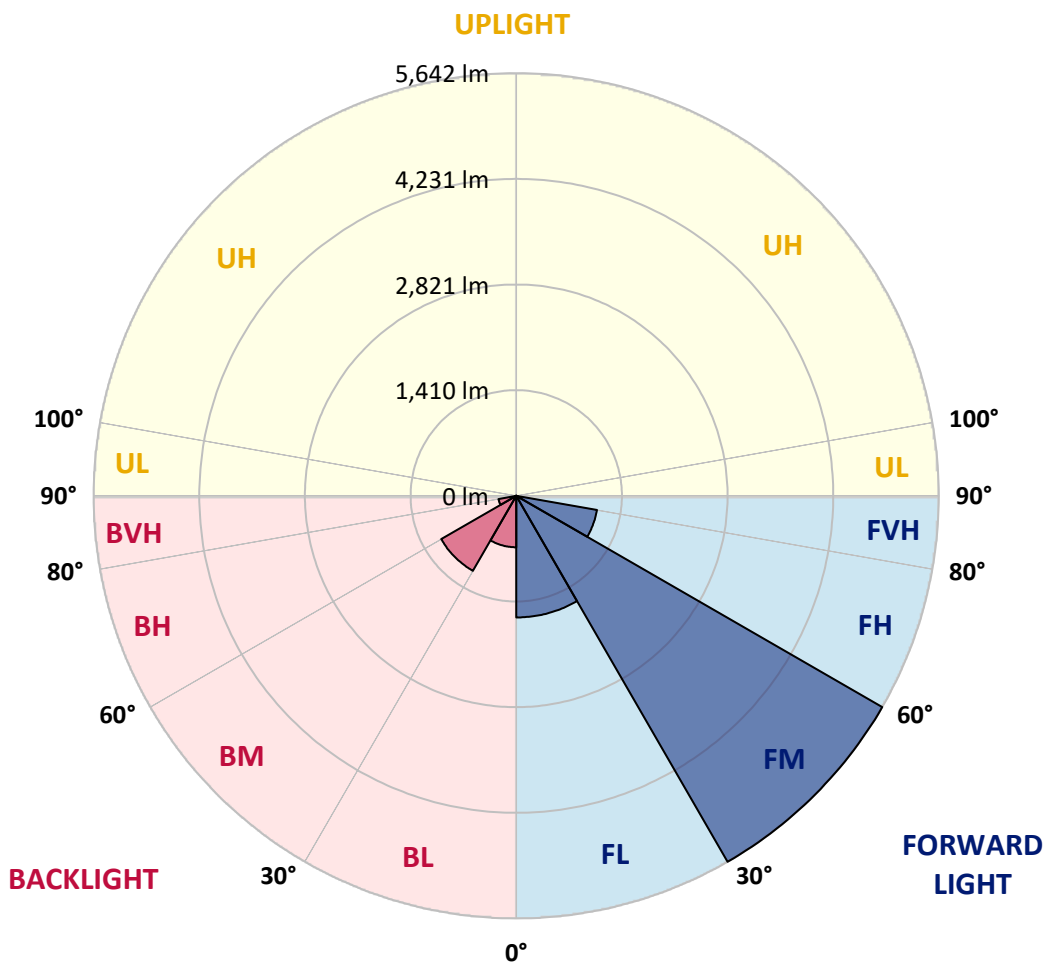
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1623.6	15.5			
FM	(30°-60°)	5641.6	53.9			
FH	(60°-80°)	1094.4	10.5			G1/1800
FVH	(80°-90°)	9.5	0.1			G0/10
BL	(0°-30°)	687.1	6.6	B2/1000		
BM	(30°-60°)	1156.8	11.1	B2/2500		
BH	(60°-80°)	240.7	2.3	B1/500		G1/500
BVH	(80°-90°)	11.6	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°	5307.3	5307.3	5307.3	5307.3	5307.3	5307.3	5307.3	5307.3	5307.3	5307.3	5307.3
2.5°	5517.0	5431.9	5323.9	5234.6	5101.7	4833.9	4761.2	4673.9	4601.3	4503.7	4366.6
5°	5016.6	4989.6	4939.8	4603.4	4360.4	4036.5	3770.7	3658.6	3511.2	3390.7	3303.5
7.5°	4634.5	4526.5	4368.7	4030.3	3642.0	3295.2	3000.4	2828.0	2632.8	2566.4	2448.1
10°	4225.4	4250.4	4017.8	3542.4	3073.1	2792.8	2610.0	2443.9	2267.4	2151.1	1983.0
12.5°	4094.7	4013.7	3835.1	3247.5	2846.8	2585.1	2363.0	2157.4	1970.5	1783.6	1621.7
15°	4179.8	4055.2	3806.0	3185.2	2672.4	2346.3	2068.1	1789.8	1617.5	1378.7	1210.5
17.5°	4485.1	4385.4	4051.1	3251.6	2583.0	2117.9	1704.7	1418.2	1154.4	938.6	853.4
20°	4993.8	4852.6	4433.1	3336.8	2450.2	1841.8	1382.9	1029.9	780.7	689.4	641.6
22.5°	5492.1	5415.3	4885.8	3500.8	2331.8	1596.7	1038.2	693.5	583.5	566.8	535.7
25°	6441.0	6210.5	5577.2	3797.7	2240.4	1366.3	782.8	558.6	494.2	481.7	485.8
27.5°	7005.8	6812.7	6216.8	3995.0	2138.7	1189.8	662.4	512.8	469.3	442.3	431.9
30°	7547.7	7323.4	6534.4	4111.3	1920.7	1002.9	587.6	492.1	481.7	442.3	429.8
32.5°	7965.1	7744.9	6993.3	4285.7	1831.4	882.5	483.8	384.2	357.2	353.0	390.4
35°	8604.6	8370.0	7385.7	4381.2	1762.9	820.1	419.4	342.6	311.4	299.0	301.1
37.5°	9200.5	9040.7	7749.1	4418.6	1690.2	801.5	375.8	307.3	280.3	272.0	270.0
40°	9698.8	9341.7	8093.8	4458.1	1659.0	766.2	348.8	280.3	261.6	249.2	249.2
42.5°	9927.2	9563.9	8480.1	4435.2	1650.7	710.1	348.8	257.5	243.0	230.5	228.4
45°	9877.5	9730.0	8652.4	4424.8	1650.7	654.0	317.7	251.2	230.5	213.9	209.7
47.5°	10006.1	9813.0	8868.3	4468.4	1617.5	614.6	267.9	263.7	218.0	197.3	193.1
50°	10029.0	10066.3	9244.1	4694.7	1544.8	564.8	209.7	259.5	209.7	178.5	174.4
52°	10178.5	9945.9	9358.3	4815.1	1468.0	527.4	176.5	222.2	201.4	166.1	162.0
52.5°	9972.9	10124.5	9385.3	4858.8	1476.3	502.5	170.3	218.0	197.3	166.1	155.8
55°	9742.5	9887.8	9275.3	4952.2	1353.8	394.5	132.9	157.8	178.5	145.3	139.1
57.5°	8467.5	8615.0	8060.6	4534.8	1102.6	278.2	110.1	118.3	157.8	135.0	128.8
60°	7527.0	7421.1	6764.9	3783.2	782.8	155.8	87.2	91.3	172.3	124.6	122.5
62.5°	6879.1	6652.8	5654.0	2921.5	477.6	103.8	68.5	70.6	132.9	116.3	116.3
65°	5089.2	4835.9	3756.2	1767.0	234.6	72.7	51.9	56.1	83.1	99.7	99.7
67.5°	2904.9	2807.3	1814.8	797.4	97.6	45.7	39.4	43.6	64.3	81.0	76.9
70°	1335.1	1198.1	697.7	168.2	45.7	31.1	31.1	35.3	51.9	60.2	56.1
72.5°	390.4	369.6	170.3	27.0	18.7	18.7	20.8	27.0	39.4	45.7	41.5
75°	29.1	18.7	12.4	8.3	8.3	12.4	16.7	27.0	39.4	43.6	35.3
77.5°	2.1	4.1	2.1	2.1	6.2	12.4	18.7	33.2	51.9	54.0	39.4
80°	2.1	2.1	0.0	2.1	6.2	12.4	20.8	37.3	58.1	62.3	33.2
82.5°	0.0	0.0	0.0	2.1	8.3	16.7	24.9	39.4	54.0	66.4	35.3
85°	0.0	0.0	0.0	2.1	12.4	22.9	29.1	10.3	6.2	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°	5307.3	5307.3	5307.3	5307.3	5307.3	5307.3	5307.3	5307.3	5307.3	5307.3	5307.3
2.5°	4464.3	4410.3	4389.5	4408.2	4402.0	4395.7	4509.9	4485.1	4480.8	4518.3	4509.9
5°	3351.3	3255.8	3517.4	3411.5	3521.6	3588.0	3600.5	3606.7	3683.5	3602.6	3708.5
7.5°	2387.9	2412.7	2410.7	2481.3	2607.9	2720.0	2786.6	2734.6	2730.5	2720.0	2674.4
10°	1908.2	1864.6	1856.3	1839.7	1879.1	1974.7	2055.7	1991.2	1945.6	2007.9	1989.2
12.5°	1559.4	1499.2	1465.9	1399.5	1401.6	1465.9	1465.9	1465.9	1511.6	1546.9	1573.9
15°	1196.0	1146.2	1146.2	1079.8	1065.2	1067.2	1100.5	1104.7	1177.3	1198.1	1208.4
17.5°	836.8	809.8	840.9	867.9	851.3	855.5	867.9	872.1	882.5	874.1	894.9
20°	643.7	639.5	647.8	695.6	730.9	751.7	737.1	716.4	703.9	674.8	674.8
22.5°	546.1	554.4	568.9	608.4	654.0	666.5	649.9	602.2	564.8	560.6	562.7
25°	485.8	494.2	517.0	541.9	566.8	587.6	571.0	535.7	514.9	496.3	496.3
27.5°	448.5	452.6	465.1	483.8	504.6	521.2	514.9	496.3	473.4	465.1	446.4
30°	419.4	425.6	440.2	444.4	463.1	471.4	461.0	456.8	442.3	431.9	425.6
32.5°	404.9	402.8	413.2	417.4	419.4	425.6	413.2	419.4	417.4	400.7	394.5
35°	305.2	321.9	348.8	371.6	377.9	386.2	384.2	375.8	353.0	334.3	311.4
37.5°	274.1	284.4	299.0	317.7	342.6	353.0	348.8	328.1	301.1	288.6	284.4
40°	253.3	259.5	272.0	284.4	309.4	328.1	313.5	294.9	274.1	263.7	257.5
42.5°	234.6	236.7	243.0	255.4	274.1	303.2	278.2	253.3	245.0	238.8	234.6
45°	213.9	213.9	222.2	228.4	249.2	276.2	251.2	228.4	224.2	220.1	218.0
47.5°	197.3	199.3	203.5	211.8	228.4	247.1	230.5	211.8	201.4	199.3	195.2
50°	176.5	178.5	186.9	195.2	216.0	226.3	216.0	195.2	184.8	178.5	178.5
52°	159.9	166.1	174.4	191.0	205.5	222.2	209.7	186.9	174.4	168.2	164.0
52.5°	157.8	162.0	170.3	189.0	205.5	220.1	207.6	184.8	170.3	166.1	162.0
55°	141.2	147.4	162.0	184.8	203.5	220.1	203.5	182.7	162.0	151.5	147.4
57.5°	135.0	139.1	157.8	186.9	201.4	220.1	203.5	182.7	162.0	143.3	139.1
60°	128.8	137.1	157.8	180.6	199.3	222.2	205.5	180.6	157.8	135.0	135.0
62.5°	122.5	128.8	155.8	176.5	191.0	213.9	197.3	176.5	151.5	128.8	126.7
65°	105.9	116.3	137.1	147.4	164.0	184.8	168.2	153.7	132.9	114.2	112.1
67.5°	81.0	85.1	101.8	114.2	124.6	143.3	135.0	116.3	101.8	87.2	87.2
70°	56.1	60.2	72.7	78.9	89.3	99.7	93.4	78.9	68.5	60.2	58.1
72.5°	39.4	41.5	45.7	49.9	54.0	58.1	56.1	45.7	39.4	37.3	35.3
75°	31.1	35.3	37.3	35.3	33.2	31.1	31.1	27.0	22.9	20.8	20.8
77.5°	31.1	33.2	31.1	27.0	22.9	20.8	18.7	16.7	12.4	10.3	12.4
80°	27.0	27.0	27.0	22.9	20.8	18.7	16.7	14.5	12.4	10.3	10.3
82.5°	29.1	29.1	27.0	22.9	22.9	18.7	18.7	16.7	14.5	10.3	10.3
85°	0.0	0.0	0.0	4.1	10.3	18.7	18.7	16.7	14.5	12.4	12.4
87.5°	0.0	0.0	0.0	0.0	2.1	4.1	8.3	10.3	12.4	12.4	12.4
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5307.3	5307.3	5307.3	5307.3	5307.3	5307.3	5307.3	5307.3	5307.3	5307.3	5307.3
2.5°	4584.7	4663.6	4813.1	4962.6	5054.0	5161.9	5357.1	5460.9	5595.9	5662.4	5793.1
5°	3693.9	3880.8	3947.2	4117.5	4300.2	4483.0	4773.7	5093.4	5359.2	5541.9	5778.6
7.5°	2695.2	2738.8	2996.2	3110.4	3409.4	3741.7	4138.2	4541.1	4877.5	5176.4	5357.1
10°	2020.3	2180.2	2342.2	2560.2	2801.0	3143.7	3523.6	3968.0	4404.1	4703.0	4931.5
12.5°	1623.7	1750.4	1966.3	2201.0	2497.9	2724.3	3106.3	3546.5	4111.3	4404.1	4705.1
15°	1229.2	1391.2	1636.2	1879.1	2192.7	2431.5	2817.7	3372.1	4098.8	4501.6	4761.2
17.5°	911.6	1021.6	1241.7	1513.7	1833.5	2169.9	2691.0	3353.4	4238.0	4717.6	4985.4
20°	697.7	735.0	874.1	1117.1	1463.8	1904.0	2485.5	3434.4	4649.0	5242.9	5514.9
22.5°	564.8	581.4	635.4	803.6	1140.0	1671.5	2387.9	3490.4	5112.1	5872.0	6235.4
25°	492.1	487.9	523.3	595.9	890.8	1453.5	2263.3	3702.3	5678.9	6611.3	6937.2
27.5°	448.5	448.5	465.1	517.0	739.2	1312.3	2184.4	3853.8	6250.0	7261.2	7437.6
30°	425.6	429.8	477.6	494.2	614.6	1144.1	2053.6	4007.4	6796.0	7676.5	7919.4
32.5°	394.5	377.9	367.5	409.1	517.0	992.5	1922.8	4071.8	7238.3	8185.2	8392.8
35°	303.2	294.9	307.3	338.4	444.4	863.8	1777.4	4144.5	7747.0	8774.8	8816.4
37.5°	274.1	272.0	280.3	307.3	373.7	751.7	1673.6	4125.8	8135.3	9262.9	9150.7
40°	253.3	253.3	259.5	282.4	334.3	672.7	1565.6	4109.2	8511.2	9811.0	9482.9
42.5°	236.7	236.7	247.1	261.6	317.7	620.8	1484.6	4086.3	8826.8	10147.3	9678.1
45°	213.9	220.1	236.7	251.2	321.9	585.5	1424.4	3999.1	8934.8	10143.2	9584.6
47.5°	197.3	205.5	222.2	243.0	290.7	575.2	1382.9	3922.3	8897.4	9894.0	9291.9
50°	178.5	189.0	211.8	247.1	247.1	554.4	1339.3	3990.9	8870.4	9700.9	9011.6
52°	166.1	174.4	203.5	240.9	216.0	510.8	1312.3	4123.8	8980.5	9676.0	8887.0
52.5°	164.0	170.3	197.3	236.7	205.5	502.5	1293.6	4154.9	9015.7	9613.7	8972.1
55°	145.3	153.7	180.6	184.8	168.2	413.2	1233.4	4225.4	8841.3	9491.2	8891.1
57.5°	137.1	141.2	159.9	151.5	145.3	311.4	1061.0	4115.4	7852.9	8430.2	8272.4
60°	126.7	130.8	149.5	118.3	122.5	218.0	797.4	3573.5	6306.0	7024.5	7309.0
62.5°	122.5	120.4	141.2	95.5	103.8	157.8	562.7	2904.9	4858.8	5782.8	6274.9
65°	108.0	105.9	101.8	81.0	89.3	122.5	336.4	1895.8	3424.0	4375.0	4644.9
67.5°	83.1	87.2	74.8	64.3	74.8	95.5	186.9	849.2	1796.1	2624.6	2842.6
70°	58.1	62.3	60.2	56.1	66.4	78.9	108.0	290.7	743.4	1378.7	1519.9
72.5°	35.3	43.6	45.7	47.8	58.1	68.5	76.9	93.4	197.3	487.9	606.3
75°	20.8	29.1	35.3	41.5	47.8	58.1	64.3	66.4	68.5	91.3	147.4
77.5°	14.5	20.8	31.1	39.4	47.8	58.1	68.5	72.7	68.5	64.3	68.5
80°	12.4	20.8	29.1	37.3	49.9	60.2	68.5	68.5	66.4	58.1	62.3
82.5°	12.4	20.8	31.1	39.4	47.8	58.1	66.4	68.5	62.3	58.1	60.2
85°	14.5	22.9	33.2	41.5	51.9	47.8	43.6	35.3	33.2	27.0	29.1
87.5°	14.5	20.8	20.8	22.9	24.9	24.9	24.9	22.9	18.7	16.7	16.7
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5307.3	5307.3	5307.3	5307.3	5307.3	5307.3	5307.3	5307.3	5307.3	5307.3
2.5°	5799.4	5965.5	5959.2	5963.4	5938.5	5770.4	5689.4	5483.7	5541.9	5517.0
5°	6021.6	6185.6	6326.8	6310.2	6119.1	5890.8	5552.3	5232.5	5145.3	5016.6
7.5°	5799.4	6193.9	6324.7	6306.0	6023.7	5730.8	5191.0	4871.2	4719.7	4634.5
10°	5446.4	5903.2	6065.1	6098.4	5907.4	5463.0	4966.8	4453.9	4372.9	4225.4
12.5°	5245.0	5577.2	5676.9	5766.1	5699.7	5367.5	4796.5	4304.4	4192.2	4094.7
15°	5081.0	5278.2	5319.7	5421.5	5460.9	5282.3	4885.8	4466.3	4190.2	4179.8
17.5°	5232.5	5151.5	5000.0	5031.1	5155.7	5284.4	5116.2	4786.1	4518.3	4485.1
20°	5483.7	5126.7	4784.0	4860.8	4964.7	5359.2	5465.1	5232.5	5078.9	4993.8
22.5°	5772.4	5170.2	4715.5	4752.9	4950.1	5527.4	6029.9	5901.1	5614.6	5492.1
25°	6306.0	5290.6	4769.5	4794.4	5064.3	5762.0	6540.6	6636.2	6465.9	6441.0
27.5°	6827.2	5602.2	4887.8	4831.8	5122.4	5990.4	6850.0	7363.0	7063.9	7005.8
30°	7093.0	5855.5	5064.3	4968.8	5363.3	6129.5	7036.9	7836.4	7574.7	7547.7
32.5°	7500.0	6085.9	5201.4	5078.9	5498.3	6301.9	7385.7	8353.3	8100.0	7965.1
35°	7670.3	6337.2	5502.5	5359.2	5884.5	6542.7	7564.3	8814.4	8735.4	8604.6
37.5°	7998.3	6607.1	5857.6	5849.2	6351.7	6856.3	7886.1	9441.4	9426.9	9200.5
40°	8025.3	6901.9	6418.2	6679.8	7074.3	7402.4	8168.5	9615.8	9852.5	9698.8
42.5°	8066.8	7419.0	7387.8	7603.8	7942.2	7871.6	8179.0	9657.4	10018.7	9927.2
45°	8085.5	7936.0	8374.1	8772.8	8914.0	8486.3	8081.3	9578.4	10105.9	9877.5
47.5°	7936.0	8380.3	9171.4	9941.8	9983.3	8864.1	8039.8	9497.4	10157.8	10006.1
50°	7956.8	8658.6	9860.8	10550.2	10398.6	9198.4	7975.5	9447.6	10130.8	10029.0
52°	7906.9	8664.8	9958.4	10537.7	10431.8	9013.7	7865.4	9256.6	10105.9	10178.5
52.5°	7963.0	8627.5	9856.7	10546.1	10409.0	9105.0	7850.9	9362.5	10120.3	9972.9
55°	7769.9	8183.1	9260.8	9553.5	9532.7	8264.1	7404.4	9011.6	9740.4	9742.5
57.5°	7022.4	7093.0	7263.2	7257.0	7161.5	6497.1	6333.0	8286.9	8683.5	8467.5
60°	6187.7	5193.1	4734.2	4547.3	4441.4	4333.4	5602.2	7580.9	7618.3	7527.0
62.5°	5346.7	3600.5	2990.0	2938.1	2963.0	3357.5	5415.3	7300.6	7076.3	6879.1
65°	4314.8	2624.6	2171.9	2103.4	2346.3	2772.0	4383.3	5597.9	5253.3	5089.2
67.5°	2709.7	1914.5	1468.0	1339.3	1632.0	1908.2	2880.0	3517.4	3131.2	2904.9
70°	1607.2	1069.3	664.5	595.9	670.7	1017.4	1613.4	1754.6	1451.4	1335.1
72.5°	633.3	392.4	184.8	157.8	164.0	357.2	593.8	579.3	438.2	390.4
75°	170.3	118.3	64.3	51.9	43.6	66.4	95.5	62.3	22.9	29.1
77.5°	78.9	70.6	56.1	43.6	33.2	24.9	12.4	4.1	4.1	2.1
80°	68.5	60.2	51.9	43.6	33.2	20.8	10.3	2.1	2.1	2.1
82.5°	64.3	56.1	47.8	39.4	31.1	20.8	10.3	2.1	0.0	0.0
85°	27.0	35.3	39.4	37.3	33.2	20.8	10.3	2.1	0.0	0.0
87.5°	14.5	12.4	10.3	8.3	6.2	4.1	4.1	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)