

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: P648163

Luminaire Tested: **GALN-SA9A-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648163
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-SA9A-835-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 17945.6 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 - G2

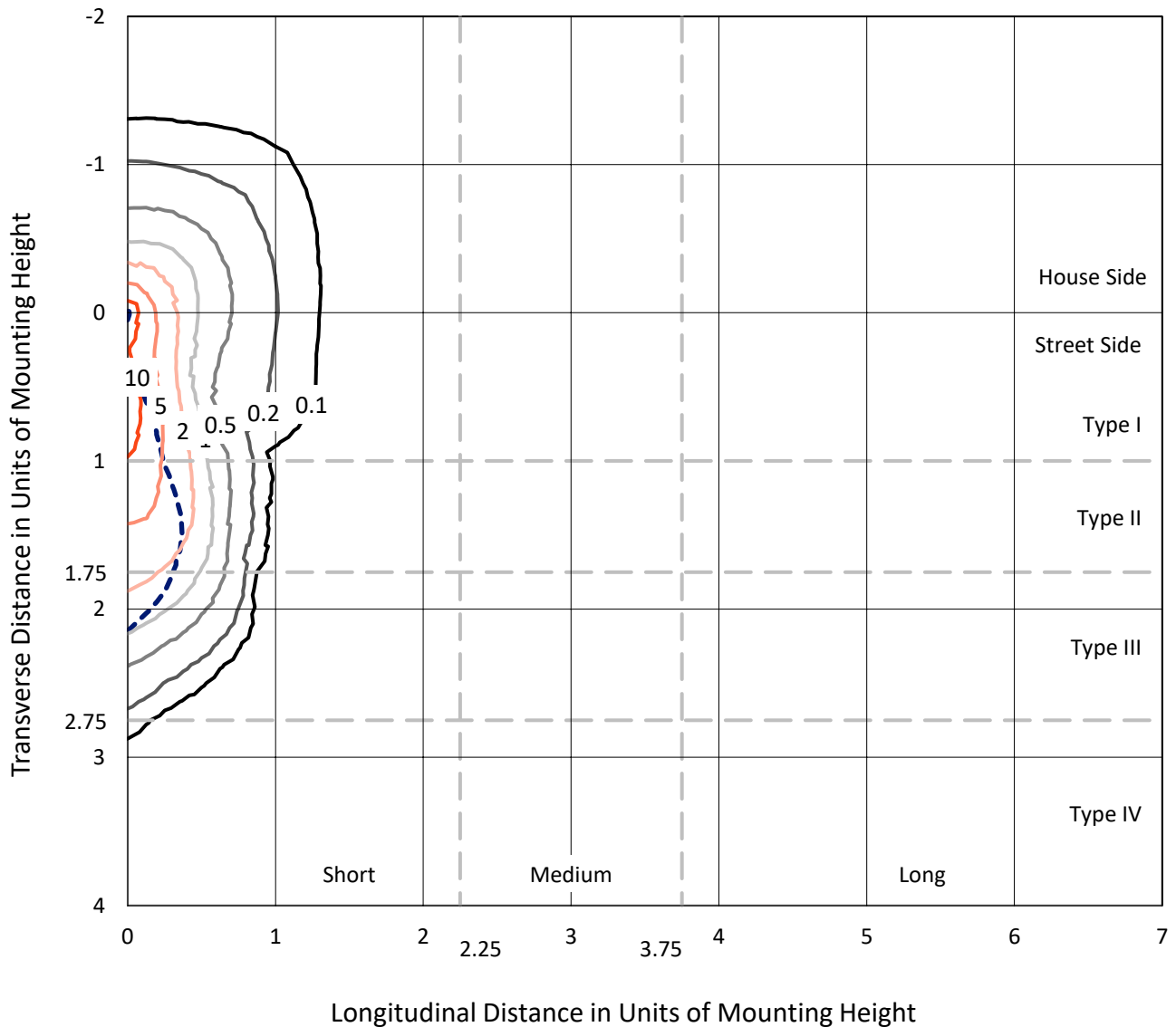
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

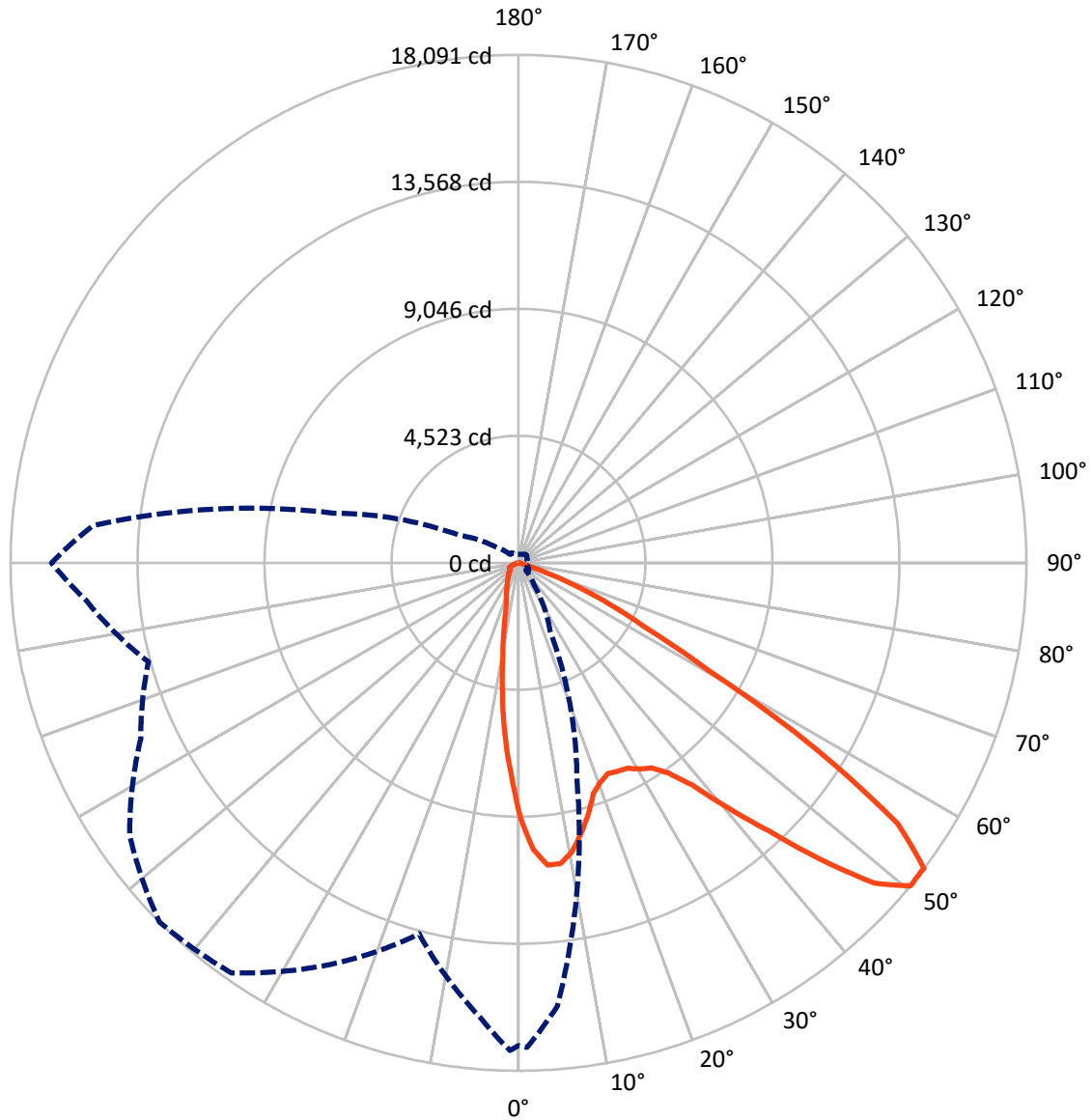
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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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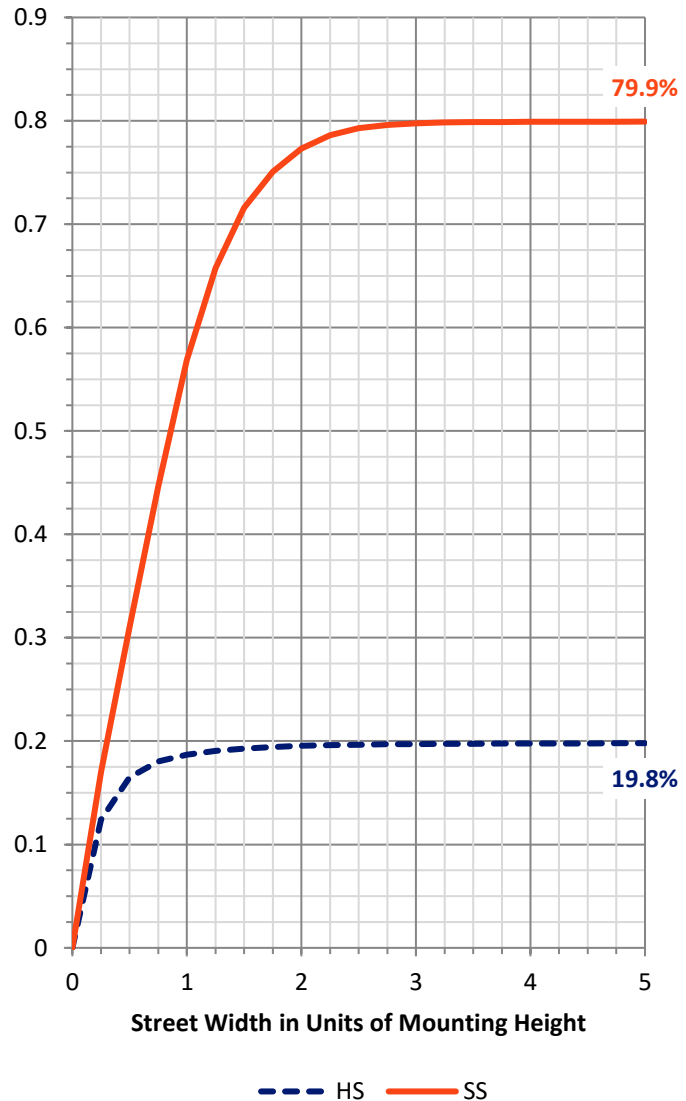
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3594.5	0.0	3594.5
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	14351.1	0.0	14351.1
	% Fixture	80.0	0.0	80.0
Total	Lumens	17945.6	0.0	17945.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.3	3.7
10°-20°	1318.4	7.3
20°-30°	1980.6	11.0
30°-40°	2972.8	16.6
40°-50°	4178.1	23.3
50°-60°	4506.8	25.1
60°-70°	2092.5	11.7
70°-80°	196.9	1.1
80°-90°	36.3	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°	17945.6	100.0
0°-180°	17945.6	100.0

Coefficient of Utilization

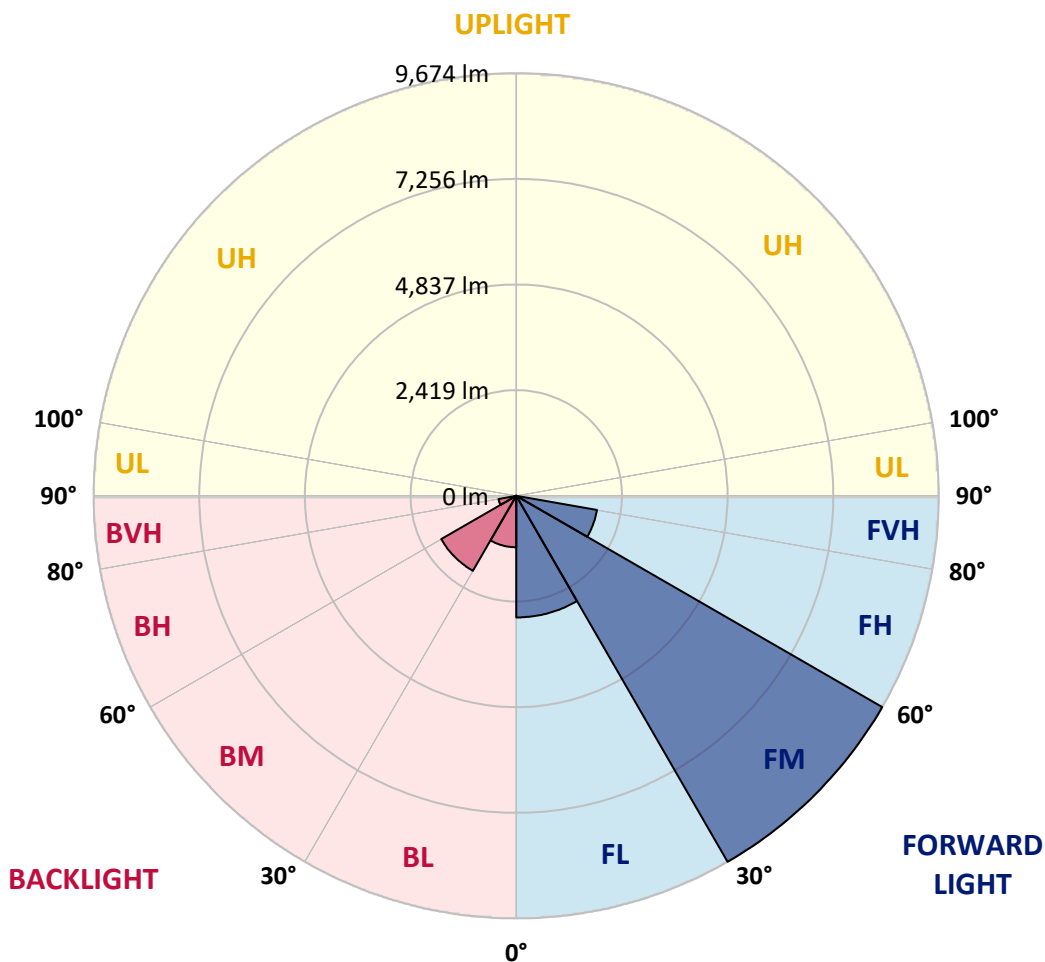


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2784.1	15.5			
FM (30°-60°)	9674.0	53.9			
FH (60°-80°)	1876.6	10.5			G2/5000
FVH (80°-90°)	16.3	0.1			G1/100
BL (0°-30°)	1178.2	6.6	B3/2500		
BM (30°-60°)	1983.6	11.1	B2/2500		
BH (60°-80°)	412.8	2.3	B1/500		G1/500
BVH (80°-90°)	19.9	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-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9100.7	9100.7	9100.7	9100.7	9100.7	9100.7	9100.7	9100.7	9100.7	9100.7	9100.7
2.5°	9460.3	9314.3	9129.2	8976.1	8748.1	8288.8	8164.3	8014.7	7890.1	7722.7	7487.8
5°	8602.2	8555.9	8470.5	7893.7	7477.1	6921.6	6465.9	6273.6	6020.8	5814.3	5664.8
7.5°	7947.1	7761.9	7491.4	6911.0	6245.1	5650.5	5144.9	4849.4	4514.7	4400.8	4197.8
10°	7245.6	7288.4	6889.6	6074.2	5269.6	4788.9	4475.5	4190.7	3888.1	3688.7	3400.3
12.5°	7021.3	6882.5	6576.3	5568.6	4881.5	4432.9	4051.9	3699.4	3379.0	3058.5	2780.7
15°	7167.3	6953.7	6526.4	5461.8	4582.4	4023.4	3546.3	3069.1	2773.6	2364.2	2075.8
17.5°	7690.7	7519.8	6946.5	5575.7	4429.3	3631.7	2923.2	2431.8	1979.7	1609.4	1463.3
20°	8563.0	8320.9	7601.7	5721.8	4201.4	3158.2	2371.3	1766.0	1338.8	1182.1	1100.2
22.5°	9417.5	9285.8	8377.9	6003.0	3998.5	2738.1	1780.2	1189.2	1000.5	972.0	918.6
25°	11044.7	10649.5	9563.6	6512.2	3841.8	2342.8	1342.3	957.8	847.4	826.1	833.2
27.5°	12013.2	11682.0	10660.2	6850.4	3667.3	2040.2	1135.8	879.5	804.7	758.4	740.6
30°	12942.4	12557.9	11205.0	7049.8	3293.5	1719.7	1007.6	843.8	826.1	758.4	737.0
32.5°	13658.1	13280.7	11991.8	7348.9	3140.4	1513.2	829.6	658.7	612.4	605.3	669.4
35°	14754.8	14352.4	12664.7	7512.7	3022.8	1406.4	719.2	587.5	534.1	512.7	516.3
37.5°	15776.7	15502.5	13287.8	7576.8	2898.3	1374.3	644.5	527.0	480.7	466.4	462.8
40°	16631.2	16018.8	13878.9	7644.4	2844.9	1313.8	598.1	480.7	448.7	427.3	427.3
42.5°	17022.8	16399.7	14541.2	7605.3	2830.6	1217.7	598.1	441.5	416.6	395.2	391.7
45°	16937.4	16684.6	14836.7	7587.4	2830.6	1121.6	544.7	430.8	395.2	366.8	359.6
47.5°	17158.1	16827.0	15207.0	7662.2	2773.6	1053.9	459.3	452.2	373.9	338.3	331.1
50°	17197.3	17261.4	15851.4	8050.3	2649.0	968.5	359.6	445.1	359.6	306.2	299.1
52°	17453.6	17054.8	16047.2	8256.8	2517.3	904.4	302.6	381.0	345.4	284.9	277.7
52.5°	17101.1	17361.1	16093.5	8331.6	2531.5	861.6	292.0	373.9	338.3	284.9	267.0
55°	16705.9	16955.2	15904.8	8491.8	2321.4	676.5	227.9	270.6	306.2	249.2	238.6
57.5°	14519.8	14772.5	13821.9	7776.1	1890.6	477.1	188.7	203.0	270.6	231.5	220.7
60°	12906.9	12725.2	11600.1	6487.2	1342.3	267.0	149.6	156.7	295.5	213.6	210.1
62.5°	11796.0	11407.9	9695.3	5009.6	818.9	178.1	117.5	121.1	227.9	199.4	199.4
65°	8726.8	8292.4	6441.0	3030.0	402.3	124.7	89.0	96.2	142.4	170.9	170.9
67.5°	4981.1	4813.8	3111.9	1367.3	167.3	78.3	67.7	74.8	110.4	138.8	131.7
70°	2289.4	2054.4	1196.3	288.4	78.3	53.4	53.4	60.5	89.0	103.3	96.2
72.5°	669.4	633.8	292.0	46.3	32.0	32.0	35.6	46.3	67.7	78.3	71.2
75°	49.9	32.0	21.4	14.3	14.3	21.4	28.5	46.3	67.7	74.8	60.5
77.5°	3.5	7.1	3.5	3.5	10.6	21.4	32.0	57.0	89.0	92.6	67.7
80°	3.5	3.5	0.0	3.5	10.6	21.4	35.6	64.1	99.7	106.8	57.0
82.5°	0.0	0.0	0.0	3.5	14.3	28.5	42.8	67.7	92.6	113.9	60.5
85°	0.0	0.0	0.0	3.5	21.4	39.2	49.9	17.8	10.6	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°	9100.7	9100.7	9100.7	9100.7	9100.7	9100.7	9100.7	9100.7	9100.7	9100.7	9100.7
2.5°	7655.1	7562.5	7526.9	7559.0	7548.3	7537.6	7733.5	7690.7	7683.6	7747.7	7733.5
5°	5746.7	5582.9	6031.5	5849.9	6038.7	6152.6	6174.0	6184.6	6316.4	6177.5	6359.1
7.5°	4094.6	4137.3	4133.8	4254.8	4472.0	4664.3	4778.2	4689.2	4682.1	4664.3	4586.0
10°	3272.1	3197.3	3183.1	3154.6	3222.3	3386.1	3524.9	3414.5	3336.2	3443.0	3411.0
12.5°	2673.9	2570.7	2513.7	2399.8	2403.3	2513.7	2513.7	2513.7	2592.0	2652.6	2698.8
15°	2050.8	1965.4	1965.4	1851.5	1826.5	1830.1	1887.1	1894.2	2018.8	2054.4	2072.2
17.5°	1434.8	1388.6	1442.0	1488.3	1459.8	1467.0	1488.3	1495.5	1513.2	1499.0	1534.6
20°	1103.8	1096.7	1110.8	1192.7	1253.3	1288.9	1264.0	1228.4	1207.0	1157.2	1157.2
22.5°	936.4	950.6	975.6	1043.3	1121.6	1142.9	1114.4	1032.5	968.5	961.4	964.9
25°	833.2	847.4	886.6	929.3	972.0	1007.6	979.1	918.6	883.0	851.0	851.0
27.5°	769.1	776.2	797.6	829.6	865.2	893.7	883.0	851.0	811.8	797.6	765.5
30°	719.2	729.9	754.8	761.9	794.0	808.2	790.4	783.3	758.4	740.6	729.9
32.5°	694.3	690.8	708.5	715.7	719.2	729.9	708.5	719.2	715.7	687.2	676.5
35°	523.4	551.9	598.1	637.4	648.0	662.3	658.7	644.5	605.3	573.2	534.1
37.5°	470.0	487.8	512.7	544.7	587.5	605.3	598.1	562.6	516.3	494.9	487.8
40°	434.4	445.1	466.4	487.8	530.5	562.6	537.6	505.6	470.0	452.2	441.5
42.5°	402.3	405.9	416.6	437.9	470.0	519.8	477.1	434.4	420.2	409.4	402.3
45°	366.8	366.8	381.0	391.7	427.3	473.6	430.8	391.7	384.5	377.4	373.9
47.5°	338.3	341.8	348.9	363.2	391.7	423.7	395.2	363.2	345.4	341.8	334.7
50°	302.6	306.2	320.5	334.7	370.3	388.1	370.3	334.7	316.9	306.2	306.2
52°	274.1	284.9	299.1	327.5	352.5	381.0	359.6	320.5	299.1	288.4	281.3
52.5°	270.6	277.7	292.0	324.0	352.5	377.4	356.0	316.9	292.0	284.9	277.7
55°	242.1	252.8	277.7	316.9	348.9	377.4	348.9	313.4	277.7	260.0	252.8
57.5°	231.5	238.6	270.6	320.5	345.4	377.4	348.9	313.4	277.7	245.7	238.6
60°	220.7	235.0	270.6	309.8	341.8	381.0	352.5	309.8	270.6	231.5	231.5
62.5°	210.1	220.7	267.0	302.6	327.5	366.8	338.3	302.6	260.0	220.7	217.2
65°	181.6	199.4	235.0	252.8	281.3	316.9	288.4	263.5	227.9	195.8	192.3
67.5°	138.8	146.0	174.5	195.8	213.6	245.7	231.5	199.4	174.5	149.6	149.6
70°	96.2	103.3	124.7	135.3	153.1	170.9	160.2	135.3	117.5	103.3	99.7
72.5°	67.7	71.2	78.3	85.4	92.6	99.7	96.2	78.3	67.7	64.1	60.5
75°	53.4	60.5	64.1	60.5	57.0	53.4	53.4	46.3	39.2	35.6	35.6
77.5°	53.4	57.0	53.4	46.3	39.2	35.6	32.0	28.5	21.4	17.8	21.4
80°	46.3	46.3	46.3	39.2	35.6	32.0	28.5	24.9	21.4	17.8	17.8
82.5°	49.9	49.9	46.3	39.2	39.2	32.0	32.0	28.5	24.9	17.8	17.8
85°	0.0	0.0	0.0	7.1	17.8	32.0	32.0	28.5	24.9	21.4	21.4
87.5°	0.0	0.0	0.0	0.0	3.5	7.1	14.3	17.8	21.4	21.4	21.4
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°	9100.7	9100.7	9100.7	9100.7	9100.7	9100.7	9100.7	9100.7	9100.7	9100.7	9100.7
2.5°	7861.6	7996.9	8253.3	8509.6	8666.3	8851.4	9186.2	9364.1	9595.6	9709.5	9933.8
5°	6334.2	6654.6	6768.6	7060.5	7373.8	7687.2	8185.6	8734.0	9189.7	9503.0	9908.9
7.5°	4621.6	4696.3	5137.8	5333.6	5846.3	6416.1	7096.1	7786.9	8363.6	8876.3	9186.2
10°	3464.4	3738.5	4016.2	4390.1	4803.2	5390.6	6042.2	6804.1	7551.9	8064.6	8456.2
12.5°	2784.3	3001.5	3371.8	3774.1	4283.3	4671.4	5326.5	6081.3	7049.8	7551.9	8068.1
15°	2107.8	2385.6	2805.6	3222.3	3759.9	4169.4	4831.6	5782.3	7028.4	7719.2	8164.3
17.5°	1563.1	1751.8	2129.2	2595.6	3143.9	3720.7	4614.5	5750.2	7267.0	8089.5	8548.8
20°	1196.3	1260.4	1499.0	1915.5	2510.1	3265.0	4261.9	5889.1	7972.0	8990.3	9456.7
22.5°	968.5	996.9	1089.5	1377.9	1954.8	2866.2	4094.6	5985.3	8766.0	10069.1	10692.3
25°	843.8	836.7	897.2	1021.9	1527.5	2492.4	3880.9	6348.4	9738.0	11336.7	11895.6
27.5°	769.1	769.1	797.6	886.6	1267.5	2250.3	3745.6	6608.3	10717.2	12451.1	12753.7
30°	729.9	737.0	818.9	847.4	1053.9	1961.8	3521.3	6871.8	11653.5	13163.2	13579.8
32.5°	676.5	648.0	630.2	701.4	886.6	1701.9	3297.1	6982.2	12412.0	14035.5	14391.6
35°	519.8	505.6	527.0	580.4	761.9	1481.2	3047.8	7106.8	13284.3	15046.8	15117.9
37.5°	470.0	466.4	480.7	527.0	640.9	1288.9	2869.8	7074.7	13950.1	15883.5	15691.2
40°	434.4	434.4	445.1	484.2	573.2	1153.6	2684.6	7046.2	14594.6	16823.5	16260.9
42.5°	405.9	405.9	423.7	448.7	544.7	1064.6	2545.8	7007.1	15135.7	17400.2	16595.5
45°	366.8	377.4	405.9	430.8	551.9	1004.0	2442.5	6857.5	15320.9	17393.1	16435.3
47.5°	338.3	352.5	381.0	416.6	498.5	986.3	2371.3	6725.8	15256.8	16965.8	15933.3
50°	306.2	324.0	363.2	423.7	423.7	950.6	2296.5	6843.3	15210.5	16634.7	15452.7
52°	284.9	299.1	348.9	413.0	370.3	875.9	2250.3	7071.2	15399.2	16592.0	15239.0
52.5°	281.3	292.0	338.3	405.9	352.5	861.6	2218.2	7124.6	15459.7	16485.2	15385.0
55°	249.2	263.5	309.8	316.9	288.4	708.5	2115.0	7245.6	15160.7	16275.1	15246.1
57.5°	235.0	242.1	274.1	260.0	249.2	534.1	1819.5	7056.9	13465.9	14455.7	14185.1
60°	217.2	224.3	256.4	203.0	210.1	373.9	1367.3	6127.7	10813.3	12045.2	12533.0
62.5°	210.1	206.5	242.1	163.8	178.1	270.6	964.9	4981.1	8331.6	9916.0	10759.8
65°	185.2	181.6	174.5	138.8	153.1	210.1	576.8	3250.8	5871.2	7502.0	7964.8
67.5°	142.4	149.6	128.2	110.4	128.2	163.8	320.5	1456.2	3079.9	4500.4	4874.3
70°	99.7	106.8	103.3	96.2	113.9	135.3	185.2	498.5	1274.6	2364.2	2606.3
72.5°	60.5	74.8	78.3	81.9	99.7	117.5	131.7	160.2	338.3	836.7	1039.7
75°	35.6	49.9	60.5	71.2	81.9	99.7	110.4	113.9	117.5	156.7	252.8
77.5°	24.9	35.6	53.4	67.7	81.9	99.7	117.5	124.7	117.5	110.4	117.5
80°	21.4	35.6	49.9	64.1	85.4	103.3	117.5	117.5	113.9	99.7	106.8
82.5°	21.4	35.6	53.4	67.7	81.9	99.7	113.9	117.5	106.8	99.7	103.3
85°	24.9	39.2	57.0	71.2	89.0	81.9	74.8	60.5	57.0	46.3	49.9
87.5°	24.9	35.6	35.6	39.2	42.8	42.8	42.8	39.2	32.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9100.7	9100.7	9100.7	9100.7	9100.7	9100.7	9100.7	9100.7	9100.7	9100.7
2.5°	9944.5	10229.3	10218.7	10225.8	10183.1	9894.7	9755.8	9403.3	9503.0	9460.3
5°	10325.5	10606.8	10848.9	10820.4	10492.8	10101.2	9520.8	8972.5	8822.9	8602.2
7.5°	9944.5	10621.0	10845.3	10813.3	10329.0	9827.0	8901.3	8353.0	8093.0	7947.1
10°	9339.2	10122.5	10400.3	10457.2	10129.7	9367.7	8516.8	7637.3	7498.5	7245.6
12.5°	8993.9	9563.6	9734.4	9887.6	9773.6	9203.9	8224.8	7380.9	7188.6	7021.3
15°	8712.6	9050.9	9122.0	9296.5	9364.1	9058.0	8377.9	7658.7	7185.1	7167.3
17.5°	8972.5	8833.6	8573.7	8627.1	8840.8	9061.5	8773.1	8207.0	7747.7	7690.7
20°	9403.3	8790.9	8203.4	8335.2	8513.2	9189.7	9371.3	8972.5	8709.0	8563.0
22.5°	9898.2	8865.7	8086.0	8150.0	8488.3	9478.1	10339.7	10118.9	9627.6	9417.5
25°	10813.3	9072.2	8178.5	8221.2	8684.1	9880.4	11215.6	11379.4	11087.4	11044.7
27.5°	11706.9	9606.2	8381.5	8285.3	8783.8	10272.1	11746.1	12625.6	12112.9	12013.2
30°	12162.7	10040.6	8684.1	8520.3	9196.8	10510.6	12066.6	13437.4	12988.7	12942.4
32.5°	12860.5	10435.8	8919.1	8709.0	9428.3	10806.2	12664.7	14324.0	13889.6	13658.1
35°	13152.5	10866.7	9435.4	9189.7	10090.5	11219.1	12970.9	15114.4	14979.1	14754.8
37.5°	13715.1	11329.5	10044.2	10030.0	10891.6	11756.8	13522.8	16189.6	16164.7	15776.7
40°	13761.4	11835.1	11005.5	11454.2	12130.6	12693.2	14007.1	16488.7	16894.6	16631.2
42.5°	13832.6	12721.7	12668.3	13038.6	13619.0	13497.9	14024.9	16560.0	17179.5	17022.8
45°	13864.7	13608.3	14359.5	15043.2	15285.3	14551.8	13857.5	16424.7	17329.0	16937.4
47.5°	13608.3	14370.2	15726.8	17047.7	17119.0	15199.8	13786.3	16285.8	17418.0	17158.1
50°	13643.9	14847.3	16908.9	18091.0	17831.0	15773.1	13676.0	16200.3	17371.7	17197.3
52°	13558.4	14858.1	17076.2	18069.6	17888.0	15456.2	13487.3	15872.7	17329.0	17453.6
52.5°	13654.6	14793.9	16901.8	18083.9	17848.9	15612.9	13462.3	16054.3	17353.9	17101.1
55°	13323.4	14032.0	15879.9	16381.9	16346.3	14170.8	12696.8	15452.7	16702.3	16705.9
57.5°	12041.7	12162.7	12454.7	12444.0	12280.2	11140.8	10859.6	14210.0	14890.1	14519.8
60°	10610.4	8904.8	8118.0	7797.5	7615.9	7430.8	9606.2	12999.4	13063.5	12906.9
62.5°	9168.3	6174.0	5127.2	5038.1	5080.9	5757.3	9285.8	12518.8	12134.2	11796.0
65°	7398.7	4500.4	3724.3	3606.8	4023.4	4753.3	7516.3	9599.1	9008.1	8726.8
67.5°	4646.5	3282.8	2517.3	2296.5	2798.6	3272.1	4938.5	6031.5	5369.3	4981.1
70°	2755.8	1833.6	1139.3	1021.9	1150.1	1744.7	2766.5	3008.6	2488.8	2289.4
72.5°	1085.9	672.9	316.9	270.6	281.3	612.4	1018.3	993.4	751.3	669.4
75°	292.0	203.0	110.4	89.0	74.8	113.9	163.8	106.8	39.2	49.9
77.5°	135.3	121.1	96.2	74.8	57.0	42.8	21.4	7.1	7.1	3.5
80°	117.5	103.3	89.0	74.8	57.0	35.6	17.8	3.5	3.5	3.5
82.5°	110.4	96.2	81.9	67.7	53.4	35.6	17.8	3.5	0.0	0.0
85°	46.3	60.5	67.7	64.1	57.0	35.6	17.8	3.5	0.0	0.0
87.5°	24.9	21.4	17.8	14.3	10.6	7.1	7.1	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)