

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: P531695

Luminaire Tested: **GALN-SA7A-730-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531695
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-SA7A-730-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 16037 lumens
Efficiency: N/A
Efficacy: 74.6 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): 215
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

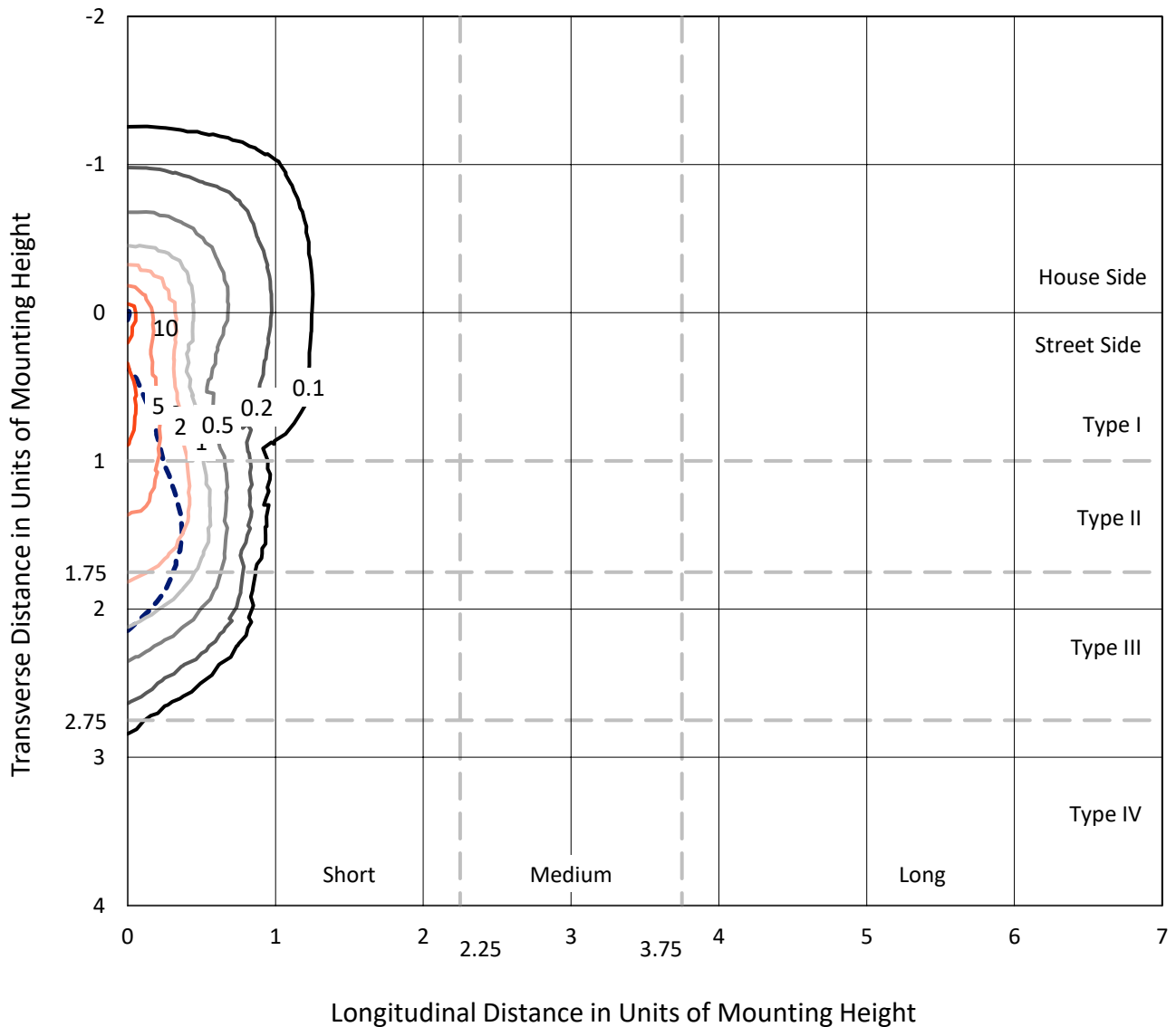




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Iso-Footcandle Lines of Horizontal Illumination

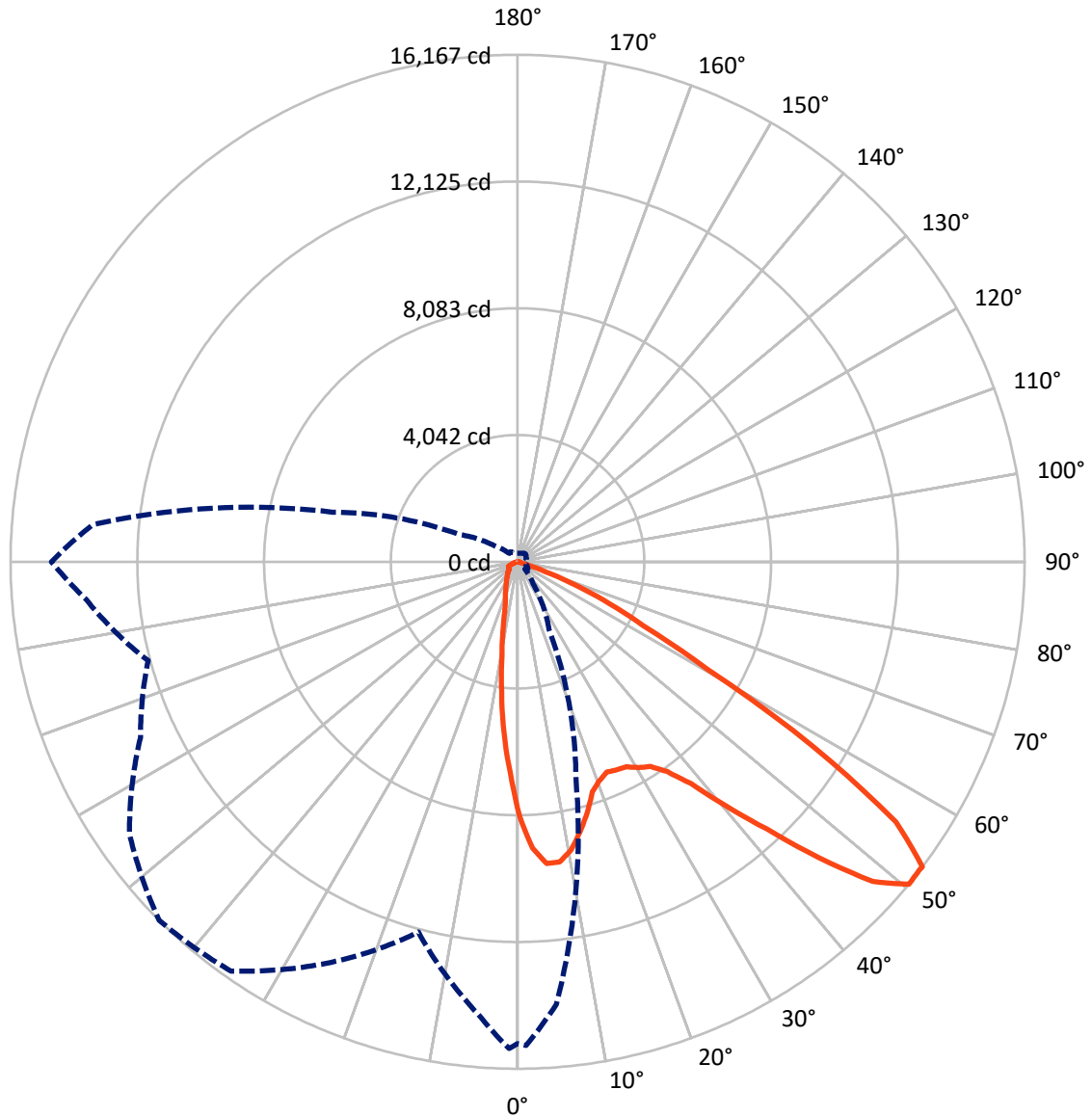
× Max cd
 - - - 1/2 Max cd



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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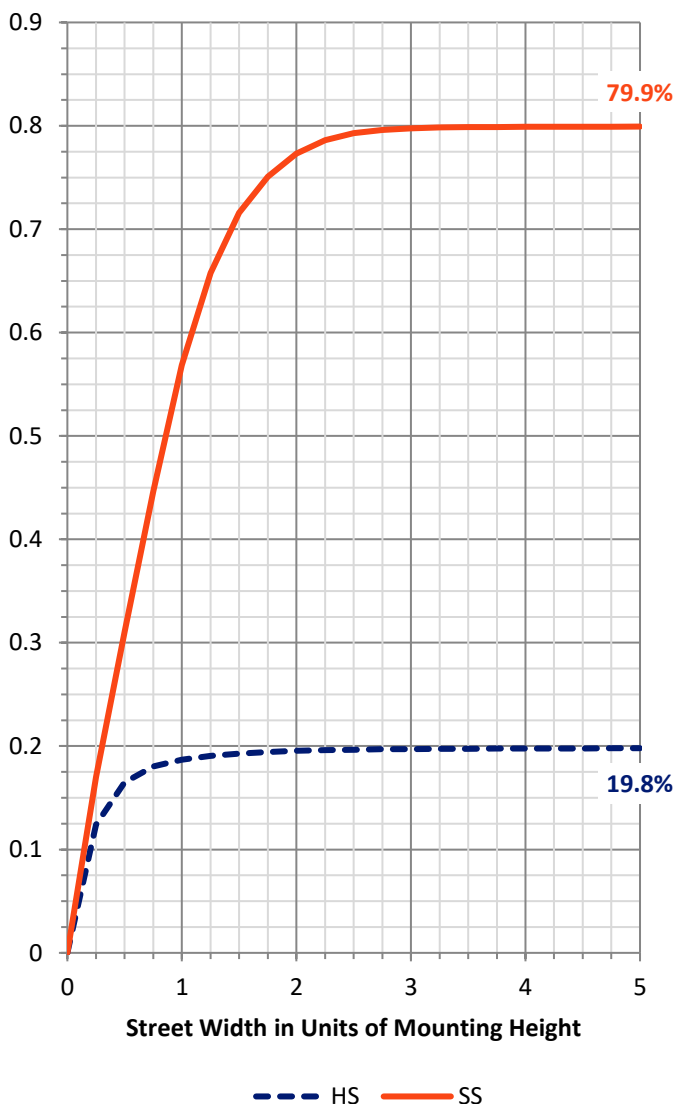
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3212.2	0.0	3212.2
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	12824.8	0.0	12824.8
	% Fixture	80.0	0.0	80.0
Total	Lumens	16037.0	0.0	16037.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.8	3.7
10°-20°	1178.2	7.3
20°-30°	1769.9	11.0
30°-40°	2656.6	16.6
40°-50°	3733.7	23.3
50°-60°	4027.5	25.1
60°-70°	1869.9	11.7
70°-80°	175.9	1.1
80°-90°	32.4	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°	16037.0	100.0
0°-180°	16037.0	100.0

Coefficient of Utilization



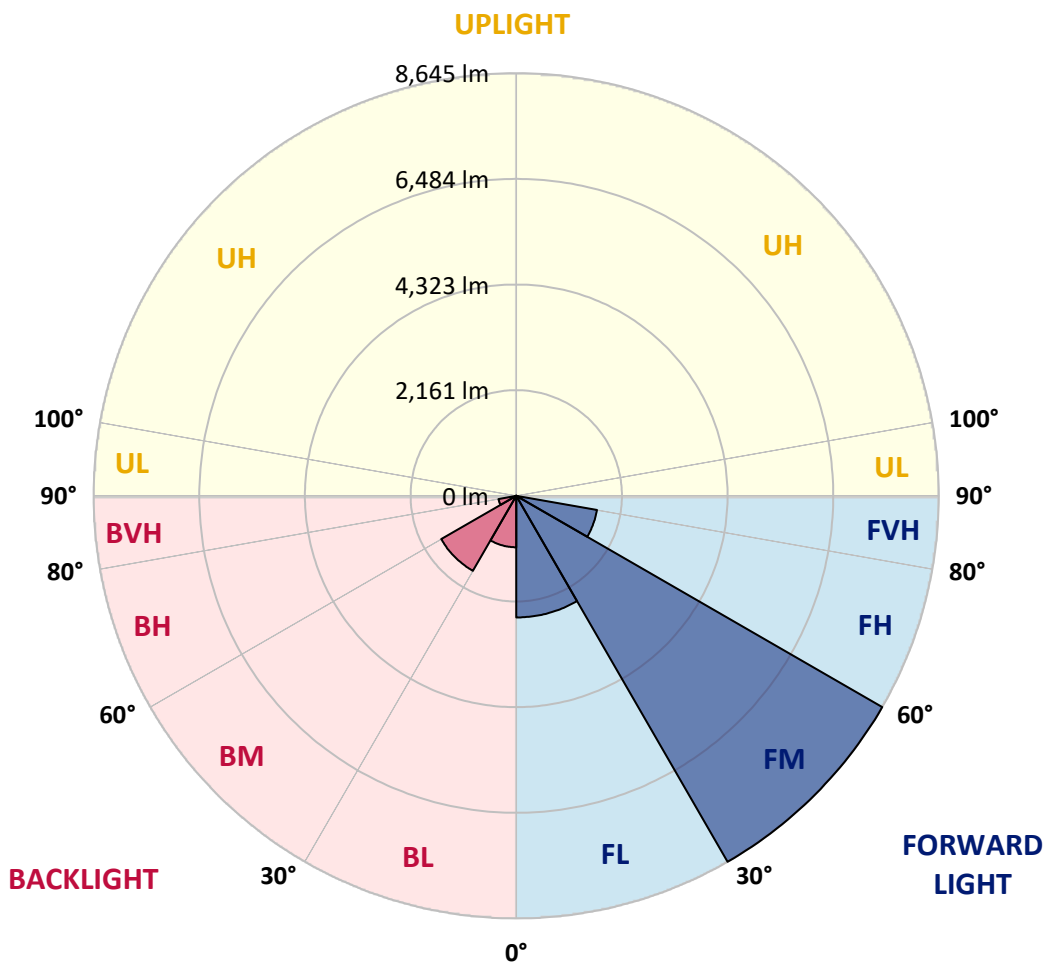
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2488.0	15.5			
FM (30°-60°)	8645.1	53.9			
FH (60°-80°)	1677.0	10.5			G1/1800
FVH (80°-90°)	14.6	0.1			G1/100
BL (0°-30°)	1052.9	6.6	B3/2500		
BM (30°-60°)	1772.7	11.1	B2/2500		
BH (60°-80°)	368.8	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°	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8
2.5°	8454.1	8323.7	8158.2	8021.4	7817.8	7407.3	7296.0	7162.3	7051.0	6901.4	6691.4
5°	7687.3	7646.0	7569.6	7054.1	6681.9	6185.5	5778.2	5606.4	5380.5	5195.9	5062.3
7.5°	7101.9	6936.4	6694.6	6175.9	5580.9	5049.6	4597.8	4333.7	4034.6	3932.8	3751.4
10°	6475.0	6513.2	6156.9	5428.2	4709.1	4279.6	3999.6	3745.0	3474.6	3296.4	3038.7
12.5°	6274.6	6150.5	5876.9	4976.4	4362.3	3961.4	3620.9	3305.9	3019.6	2733.2	2485.0
15°	6405.0	6214.1	5832.3	4880.9	4095.0	3595.5	3169.1	2742.7	2478.7	2112.7	1855.0
17.5°	6872.8	6720.0	6207.8	4982.8	3958.2	3245.5	2612.3	2173.2	1769.1	1438.2	1307.7
20°	7652.3	7436.0	6793.2	5113.2	3754.6	2822.3	2119.1	1578.2	1196.4	1056.4	983.2
22.5°	8416.0	8298.2	7486.9	5364.6	3573.2	2446.8	1590.9	1062.7	894.1	868.6	820.9
25°	9870.1	9516.9	8546.4	5819.6	3433.2	2093.7	1199.6	855.9	757.3	738.2	744.6
27.5°	10735.5	10439.6	9526.4	6121.9	3277.3	1823.2	1015.0	785.9	719.1	677.7	661.8
30°	11566.0	11222.3	10013.2	6300.0	2943.2	1536.8	900.5	754.1	738.2	677.7	658.6
32.5°	12205.5	11868.3	10716.4	6567.3	2806.4	1352.3	741.4	588.6	547.3	540.9	598.2
35°	13185.5	12826.0	11317.8	6713.7	2701.4	1256.8	642.7	525.0	477.3	458.2	461.4
37.5°	14098.7	13853.7	11874.6	6771.0	2590.0	1228.2	575.9	470.9	429.5	416.8	413.6
40°	14862.4	14315.1	12402.8	6831.4	2542.3	1174.1	534.5	429.5	400.9	381.8	381.8
42.5°	15212.4	14655.6	12994.6	6796.4	2529.6	1088.2	534.5	394.5	372.3	353.2	350.0
45°	15136.0	14910.1	13258.7	6780.5	2529.6	1002.3	486.8	385.0	353.2	327.7	321.4
47.5°	15333.3	15037.4	13589.6	6847.3	2478.7	941.8	410.5	404.1	334.1	302.3	295.9
50°	15368.3	15425.6	14165.5	7194.1	2367.3	865.5	321.4	397.7	321.4	273.6	267.3
52°	15597.4	15241.0	14340.5	7378.7	2249.6	808.2	270.5	340.5	308.6	254.5	248.2
52.5°	15282.4	15514.6	14381.9	7445.5	2262.3	770.0	260.9	334.1	302.3	254.5	238.6
55°	14929.2	15151.9	14213.3	7588.7	2074.6	604.5	203.6	241.8	273.6	222.7	213.2
57.5°	12975.5	13201.5	12351.9	6949.1	1689.6	426.4	168.6	181.4	241.8	206.8	197.3
60°	11534.2	11371.9	10366.4	5797.3	1199.6	238.6	133.6	140.0	264.1	190.9	187.7
62.5°	10541.4	10194.6	8664.1	4476.8	731.8	159.1	105.0	108.2	203.6	178.2	178.2
65°	7798.7	7410.5	5755.9	2707.7	359.5	111.4	79.5	85.9	127.3	152.7	152.7
67.5°	4451.4	4301.8	2780.9	1221.8	149.5	70.0	60.5	66.8	98.6	124.1	117.7
70°	2045.9	1835.9	1069.1	257.7	70.0	47.7	47.7	54.1	79.5	92.3	85.9
72.5°	598.2	566.4	260.9	41.4	28.6	28.6	31.8	41.4	60.5	70.0	63.6
75°	44.5	28.6	19.1	12.7	12.7	19.1	25.5	41.4	60.5	66.8	54.1
77.5°	3.2	6.4	3.2	3.2	9.5	19.1	28.6	50.9	79.5	82.7	60.5
80°	3.2	3.2	0.0	3.2	9.5	19.1	31.8	57.3	89.1	95.5	50.9
82.5°	0.0	0.0	0.0	3.2	12.7	25.5	38.2	60.5	82.7	101.8	54.1
85°	0.0	0.0	0.0	3.2	19.1	35.0	44.5	15.9	9.5	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°	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8
2.5°	6841.0	6758.2	6726.4	6755.0	6745.5	6736.0	6911.0	6872.8	6866.4	6923.7	6911.0
5°	5135.5	4989.1	5390.0	5227.8	5396.4	5498.2	5517.3	5526.9	5644.6	5520.5	5682.8
7.5°	3659.1	3697.3	3694.1	3802.3	3996.4	4168.2	4270.0	4190.5	4184.1	4168.2	4098.2
10°	2924.1	2857.3	2844.6	2819.1	2879.6	3025.9	3150.0	3051.4	2981.4	3076.8	3048.2
12.5°	2389.6	2297.3	2246.4	2144.6	2147.7	2246.4	2246.4	2246.4	2316.4	2370.5	2411.8
15°	1832.7	1756.4	1756.4	1654.6	1632.3	1635.5	1686.4	1692.7	1804.1	1835.9	1851.8
17.5°	1282.3	1240.9	1288.6	1330.0	1304.6	1310.9	1330.0	1336.4	1352.3	1339.6	1371.4
20°	986.4	980.0	992.7	1065.9	1120.0	1151.8	1129.6	1097.7	1078.6	1034.1	1034.1
22.5°	836.8	849.6	871.8	932.3	1002.3	1021.4	995.9	922.7	865.5	859.1	862.3
25°	744.6	757.3	792.3	830.5	868.6	900.5	875.0	820.9	789.1	760.5	760.5
27.5°	687.3	693.6	712.7	741.4	773.2	798.6	789.1	760.5	725.5	712.7	684.1
30°	642.7	652.3	674.5	680.9	709.6	722.3	706.4	700.0	677.7	661.8	652.3
32.5°	620.5	617.3	633.2	639.5	642.7	652.3	633.2	642.7	639.5	614.1	604.5
35°	467.7	493.2	534.5	569.5	579.1	591.8	588.6	575.9	540.9	512.3	477.3
37.5°	420.0	435.9	458.2	486.8	525.0	540.9	534.5	502.7	461.4	442.3	435.9
40°	388.2	397.7	416.8	435.9	474.1	502.7	480.5	451.8	420.0	404.1	394.5
42.5°	359.5	362.7	372.3	391.4	420.0	464.5	426.4	388.2	375.5	365.9	359.5
45°	327.7	327.7	340.5	350.0	381.8	423.2	385.0	350.0	343.6	337.3	334.1
47.5°	302.3	305.5	311.8	324.5	350.0	378.6	353.2	324.5	308.6	305.5	299.1
50°	270.5	273.6	286.4	299.1	330.9	346.8	330.9	299.1	283.2	273.6	273.6
52°	245.0	254.5	267.3	292.7	315.0	340.5	321.4	286.4	267.3	257.7	251.4
52.5°	241.8	248.2	260.9	289.5	315.0	337.3	318.2	283.2	260.9	254.5	248.2
55°	216.4	225.9	248.2	283.2	311.8	337.3	311.8	280.0	248.2	232.3	225.9
57.5°	206.8	213.2	241.8	286.4	308.6	337.3	311.8	280.0	248.2	219.5	213.2
60°	197.3	210.0	241.8	276.8	305.5	340.5	315.0	276.8	241.8	206.8	206.8
62.5°	187.7	197.3	238.6	270.5	292.7	327.7	302.3	270.5	232.3	197.3	194.1
65°	162.3	178.2	210.0	225.9	251.4	283.2	257.7	235.5	203.6	175.0	171.8
67.5°	124.1	130.5	155.9	175.0	190.9	219.5	206.8	178.2	155.9	133.6	133.6
70°	85.9	92.3	111.4	120.9	136.8	152.7	143.2	120.9	105.0	92.3	89.1
72.5°	60.5	63.6	70.0	76.4	82.7	89.1	85.9	70.0	60.5	57.3	54.1
75°	47.7	54.1	57.3	54.1	50.9	47.7	47.7	41.4	35.0	31.8	31.8
77.5°	47.7	50.9	47.7	41.4	35.0	31.8	28.6	25.5	19.1	15.9	19.1
80°	41.4	41.4	41.4	35.0	31.8	28.6	25.5	22.3	19.1	15.9	15.9
82.5°	44.5	44.5	41.4	35.0	35.0	28.6	28.6	25.5	22.3	15.9	15.9
85°	0.0	0.0	0.0	6.4	15.9	28.6	28.6	25.5	22.3	19.1	19.1
87.5°	0.0	0.0	0.0	0.0	3.2	6.4	12.7	15.9	19.1	19.1	19.1
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°	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8
2.5°	7025.5	7146.4	7375.5	7604.6	7744.6	7910.1	8209.1	8368.2	8575.1	8676.9	8877.3
5°	5660.5	5946.9	6048.7	6309.6	6589.6	6869.6	7315.0	7805.1	8212.3	8492.3	8855.1
7.5°	4130.0	4196.8	4591.4	4766.4	5224.6	5733.7	6341.4	6958.7	7474.1	7932.3	8209.1
10°	3095.9	3340.9	3589.1	3923.2	4292.3	4817.3	5399.6	6080.5	6748.7	7206.9	7556.9
12.5°	2488.2	2682.3	3013.2	3372.7	3827.8	4174.6	4760.0	5434.6	6300.0	6748.7	7210.0
15°	1883.6	2131.8	2507.3	2879.6	3360.0	3725.9	4317.8	5167.3	6281.0	6898.2	7296.0
17.5°	1396.8	1565.5	1902.7	2319.6	2809.6	3325.0	4123.7	5138.7	6494.1	7229.1	7639.6
20°	1069.1	1126.4	1339.6	1711.8	2243.2	2917.7	3808.7	5262.8	7124.1	8034.1	8451.0
22.5°	865.5	890.9	973.6	1231.4	1746.8	2561.4	3659.1	5348.7	7833.7	8998.2	9555.1
25°	754.1	747.7	801.8	913.2	1365.0	2227.3	3468.2	5673.2	8702.3	10131.0	10630.5
27.5°	687.3	687.3	712.7	792.3	1132.7	2010.9	3347.3	5905.5	9577.3	11126.9	11397.3
30°	652.3	658.6	731.8	757.3	941.8	1753.2	3146.8	6140.9	10414.2	11763.3	12135.5
32.5°	604.5	579.1	563.2	626.8	792.3	1520.9	2946.4	6239.6	11091.9	12542.8	12861.0
35°	464.5	451.8	470.9	518.6	680.9	1323.6	2723.7	6351.0	11871.4	13446.5	13510.1
37.5°	420.0	416.8	429.5	470.9	572.7	1151.8	2564.6	6322.3	12466.4	14194.2	14022.4
40°	388.2	388.2	397.7	432.7	512.3	1030.9	2399.1	6296.9	13042.4	15034.2	14531.5
42.5°	362.7	362.7	378.6	400.9	486.8	951.4	2275.0	6261.9	13526.0	15549.6	14830.6
45°	327.7	337.3	362.7	385.0	493.2	897.3	2182.7	6128.2	13691.5	15543.3	14687.4
47.5°	302.3	315.0	340.5	372.3	445.5	881.4	2119.1	6010.5	13634.2	15161.5	14238.7
50°	273.6	289.5	324.5	378.6	378.6	849.6	2052.3	6115.5	13592.8	14865.6	13809.2
52°	254.5	267.3	311.8	369.1	330.9	782.7	2010.9	6319.1	13761.5	14827.4	13618.3
52.5°	251.4	260.9	302.3	362.7	315.0	770.0	1982.3	6366.9	13815.5	14731.9	13748.7
55°	222.7	235.5	276.8	283.2	257.7	633.2	1890.0	6475.0	13548.3	14544.2	13624.6
57.5°	210.0	216.4	245.0	232.3	222.7	477.3	1625.9	6306.4	12033.7	12918.3	12676.4
60°	194.1	200.5	229.1	181.4	187.7	334.1	1221.8	5475.9	9663.2	10764.2	11200.1
62.5°	187.7	184.5	216.4	146.4	159.1	241.8	862.3	4451.4	7445.5	8861.4	9615.5
65°	165.5	162.3	155.9	124.1	136.8	187.7	515.5	2905.0	5246.9	6704.1	7117.8
67.5°	127.3	133.6	114.5	98.6	114.5	146.4	286.4	1301.4	2752.3	4021.8	4355.9
70°	89.1	95.5	92.3	85.9	101.8	120.9	165.5	445.5	1139.1	2112.7	2329.1
72.5°	54.1	66.8	70.0	73.2	89.1	105.0	117.7	143.2	302.3	747.7	929.1
75°	31.8	44.5	54.1	63.6	73.2	89.1	98.6	101.8	105.0	140.0	225.9
77.5°	22.3	31.8	47.7	60.5	73.2	89.1	105.0	111.4	105.0	98.6	105.0
80°	19.1	31.8	44.5	57.3	76.4	92.3	105.0	105.0	101.8	89.1	95.5
82.5°	19.1	31.8	47.7	60.5	73.2	89.1	101.8	105.0	95.5	89.1	92.3
85°	22.3	35.0	50.9	63.6	79.5	73.2	66.8	54.1	50.9	41.4	44.5
87.5°	22.3	31.8	31.8	35.0	38.2	38.2	38.2	35.0	28.6	25.5	25.5
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°	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8	8132.8
2.5°	8886.9	9141.4	9131.9	9138.2	9100.1	8842.3	8718.2	8403.2	8492.3	8454.1
5°	9227.3	9478.7	9695.1	9669.6	9376.9	9026.9	8508.2	8018.2	7884.6	7687.3
7.5°	8886.9	9491.4	9691.9	9663.2	9230.5	8781.9	7954.6	7464.6	7232.3	7101.9
10°	8346.0	9046.0	9294.2	9345.1	9052.3	8371.4	7611.0	6825.0	6701.0	6475.0
12.5°	8037.3	8546.4	8699.1	8836.0	8734.1	8225.1	7350.0	6596.0	6424.1	6274.6
15°	7786.0	8088.2	8151.9	8307.8	8368.2	8094.6	7486.9	6844.1	6421.0	6405.0
17.5°	8018.2	7894.1	7661.9	7709.6	7900.5	8097.8	7840.1	7334.1	6923.7	6872.8
20°	8403.2	7856.0	7331.0	7448.7	7607.8	8212.3	8374.6	8018.2	7782.8	7652.3
22.5°	8845.5	7922.8	7226.0	7283.2	7585.5	8470.1	9240.1	9042.8	8603.7	8416.0
25°	9663.2	8107.3	7308.7	7346.9	7760.5	8829.6	10022.8	10169.2	9908.2	9870.1
27.5°	10461.9	8584.6	7490.0	7404.1	7849.6	9179.6	10496.9	11282.8	10824.6	10735.5
30°	10869.2	8972.8	7760.5	7614.1	8218.7	9392.8	10783.3	12008.3	11607.3	11566.0
32.5°	11492.8	9326.0	7970.5	7782.8	8425.5	9656.9	11317.8	12800.5	12412.4	12205.5
35°	11753.7	9711.0	8431.9	8212.3	9017.3	10026.0	11591.4	13506.9	13386.0	13185.5
37.5°	12256.4	10124.6	8976.0	8963.2	9733.2	10506.4	12084.6	14467.8	14445.5	14098.7
40°	12297.8	10576.4	9835.1	10236.0	10840.5	11343.3	12517.4	14735.1	15097.8	14862.4
42.5°	12361.4	11368.7	11321.0	11651.9	12170.5	12062.4	12533.3	14798.7	15352.4	15212.4
45°	12390.1	12161.0	12832.4	13443.3	13659.6	13004.2	12383.7	14677.8	15486.0	15136.0
47.5°	12161.0	12841.9	14054.2	15234.6	15298.3	13583.3	12320.1	14553.7	15565.6	15333.3
50°	12192.8	13268.3	15110.6	16166.9	15934.6	14095.5	12221.4	14477.4	15524.2	15368.3
52°	12116.4	13277.8	15260.1	16147.8	15985.6	13812.4	12052.8	14184.6	15486.0	15597.4
52.5°	12202.4	13220.5	15104.2	16160.6	15950.6	13952.4	12030.5	14346.9	15508.3	15282.4
55°	11906.4	12539.6	14191.0	14639.6	14607.8	12663.7	11346.4	13809.2	14926.0	14929.2
57.5°	10761.0	10869.2	11130.1	11120.5	10974.2	9956.0	9704.6	12698.7	13306.5	12975.5
60°	9481.9	7957.8	7254.6	6968.2	6806.0	6640.5	8584.6	11616.9	11674.2	11534.2
62.5°	8193.2	5517.3	4581.8	4502.3	4540.5	5145.0	8298.2	11187.3	10843.7	10541.4
65°	6611.9	4021.8	3328.2	3223.2	3595.5	4247.8	6716.9	8578.2	8050.1	7798.7
67.5°	4152.3	2933.7	2249.6	2052.3	2500.9	2924.1	4413.2	5390.0	4798.2	4451.4
70°	2462.7	1638.6	1018.2	913.2	1027.7	1559.1	2472.3	2688.7	2224.1	2045.9
72.5°	970.5	601.4	283.2	241.8	251.4	547.3	910.0	887.7	671.4	598.2
75°	260.9	181.4	98.6	79.5	66.8	101.8	146.4	95.5	35.0	44.5
77.5°	120.9	108.2	85.9	66.8	50.9	38.2	19.1	6.4	6.4	3.2
80°	105.0	92.3	79.5	66.8	50.9	31.8	15.9	3.2	3.2	3.2
82.5°	98.6	85.9	73.2	60.5	47.7	31.8	15.9	3.2	0.0	0.0
85°	41.4	54.1	60.5	57.3	50.9	31.8	15.9	3.2	0.0	0.0
87.5°	22.3	19.1	15.9	12.7	9.5	6.4	6.4	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)