

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: P382836

Luminaire Tested: **GLEON-SA2A-735-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2A-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6584.2 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

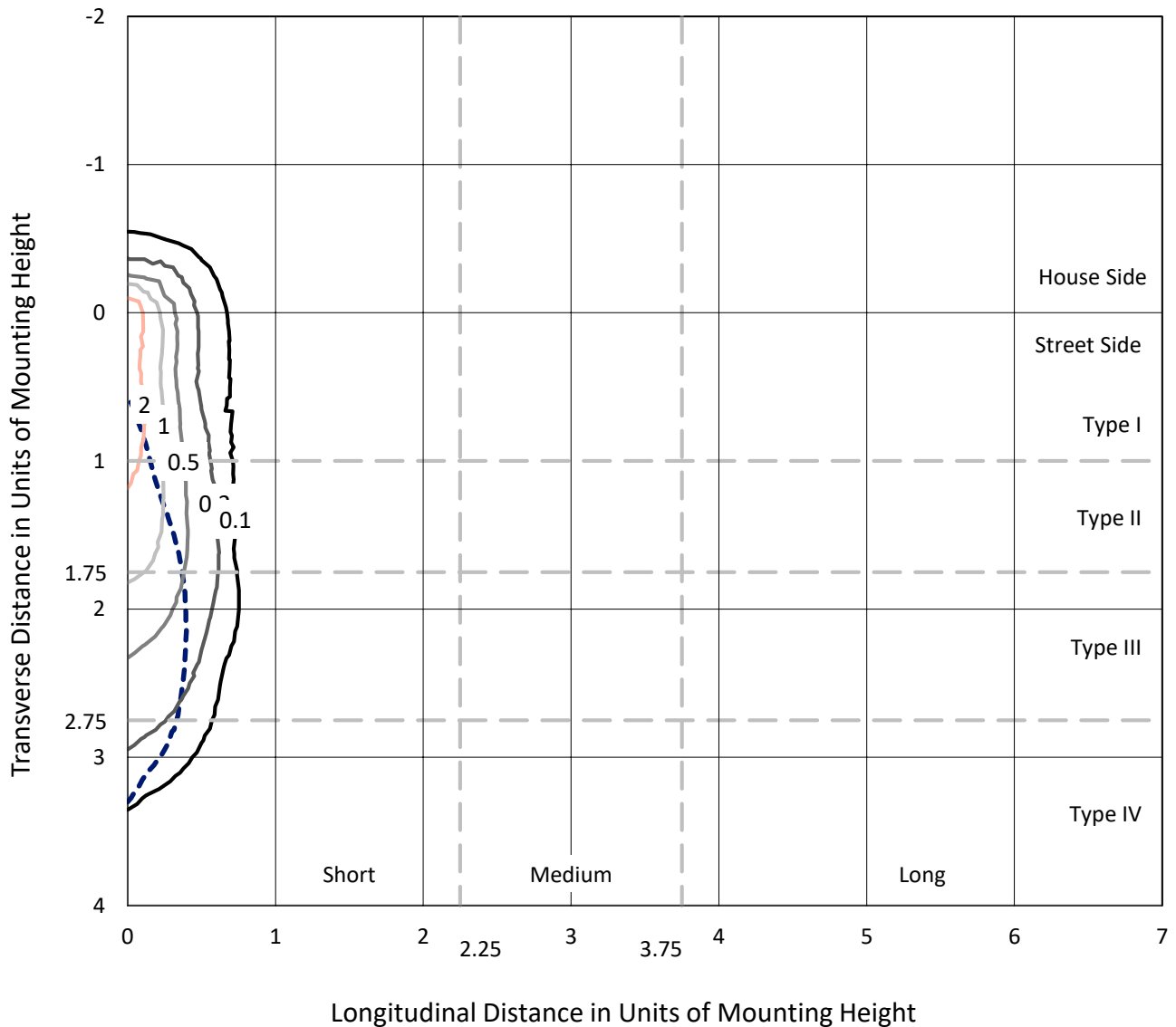




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Iso-Footcandle Lines of Horizontal Illumination

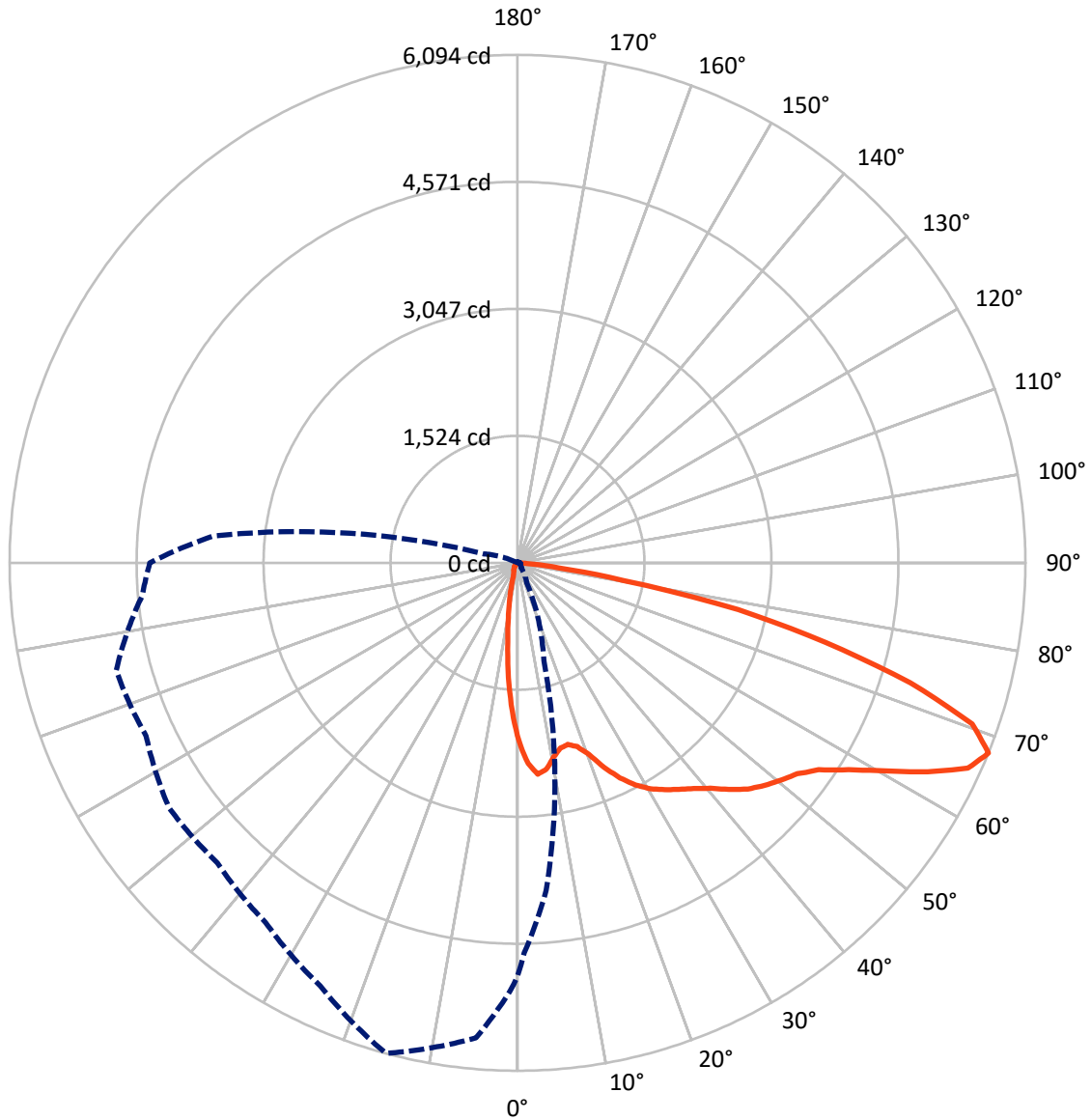
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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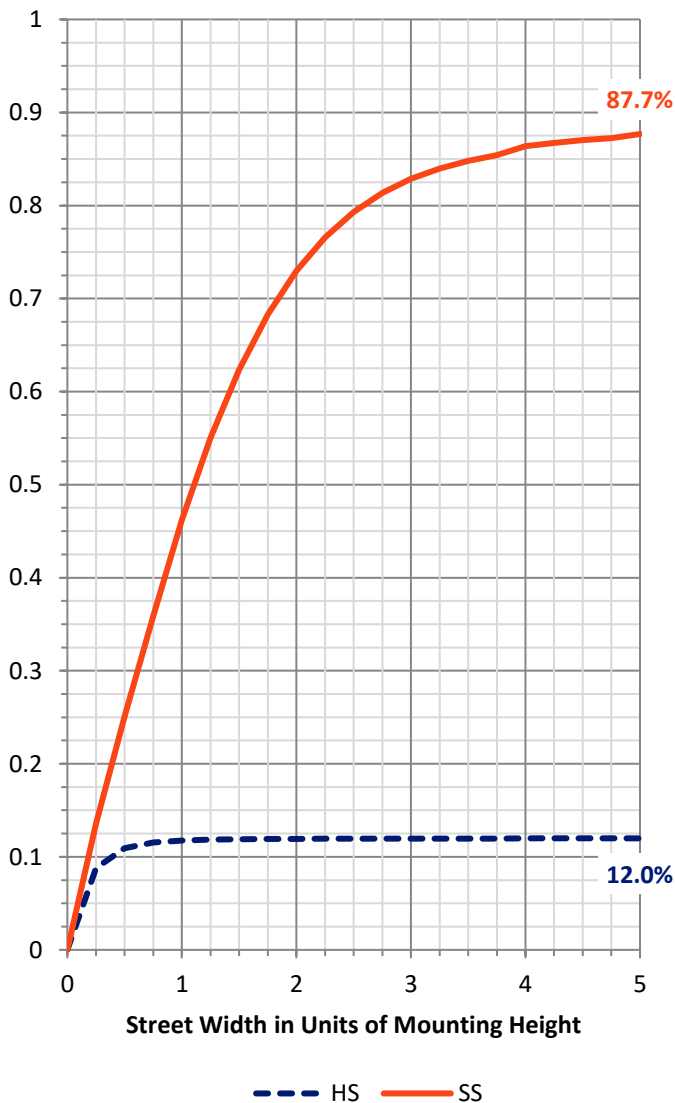
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	796.9	0.0	796.9
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	5787.3	0.0	5787.3
	% Fixture	87.9	0.0	87.9
Total	Lumens	6584.2	0.0	6584.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.6	2.5
10°-20°	327.7	5.0
20°-30°	465.3	7.1
30°-40°	687.2	10.4
40°-50°	991.1	15.1
50°-60°	1391.3	21.1
60°-70°	1621.9	24.6
70°-80°	829.1	12.6
80°-90°	105.9	1.6
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°	6584.2	100.0
0°-180°	6584.2	100.0

Coefficient of Utilization

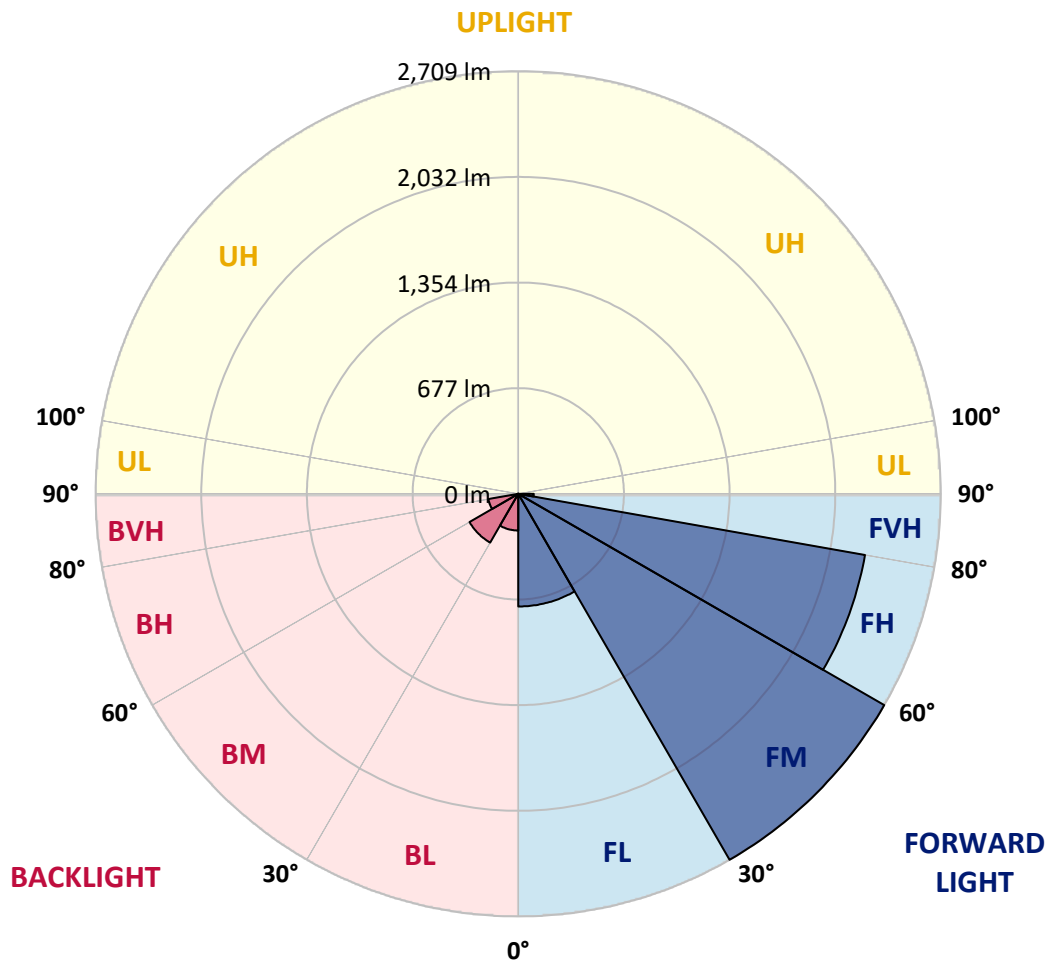


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	722.2	11.0			
FM (30°-60°)	2708.8	41.1			
FH (60°-80°)	2256.8	34.3			G2/5000
FVH (80°-90°)	99.5	1.5			G1/100
BL (0°-30°)	235.4	3.6	B1/500		
BM (30°-60°)	360.9	5.5	B1/1000		
BH (60°-80°)	194.2	2.9	B1/500		G1/500
BVH (80°-90°)	6.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2144.8	2144.8	2144.8	2144.8	2144.8	2144.8	2144.8	2144.8	2144.8	2144.8	2144.8
2.5°	2348.4	2330.4	2310.4	2245.2	2184.7	2115.5	2059.0	2019.7	1970.4	1906.5	1890.3
5°	2331.7	2312.3	2249.6	2104.6	1977.6	1854.1	1734.9	1665.0	1578.3	1490.4	1468.5
7.5°	2162.2	2142.0	2051.5	1852.8	1681.9	1503.4	1348.8	1253.0	1155.0	1074.5	1031.9
10°	1986.1	1963.9	1862.2	1621.1	1410.5	1249.3	1135.7	1044.4	951.7	865.6	796.9
12.5°	1864.7	1835.7	1725.2	1452.0	1268.6	1159.1	1053.0	943.6	818.2	725.9	650.3
15°	1813.8	1780.7	1664.1	1386.8	1218.4	1089.8	951.7	817.2	670.3	564.6	495.3
17.5°	1853.1	1810.1	1685.0	1382.4	1155.4	980.4	805.7	647.9	488.5	381.5	332.2
20°	1986.6	1930.2	1771.4	1381.2	1078.9	850.3	628.8	450.4	321.9	258.9	233.0
22.5°	2196.9	2122.3	1895.5	1391.2	1000.0	713.7	454.1	306.0	241.7	208.9	193.7
25°	2450.8	2364.4	2074.3	1426.4	930.8	580.8	330.0	241.7	204.0	180.0	167.2
27.5°	2692.2	2622.0	2300.1	1477.2	877.1	473.5	267.9	204.9	174.4	158.5	148.2
30°	2933.4	2845.0	2531.9	1537.8	812.6	400.8	235.5	186.9	156.3	139.5	132.8
32.5°	3108.7	3035.4	2713.4	1581.5	743.7	353.4	210.5	170.9	146.0	128.8	119.1
35°	3314.8	3231.8	2869.1	1591.1	699.3	323.4	189.4	153.8	126.6	111.3	101.1
37.5°	3537.6	3434.2	3048.8	1569.9	664.8	308.8	173.5	146.0	118.2	102.7	91.7
40°	3783.9	3667.3	3221.2	1539.4	630.8	303.8	161.3	140.0	111.7	95.8	84.5
42.5°	4043.5	3905.9	3370.6	1507.2	609.2	286.6	160.0	134.1	106.7	89.5	78.2
45°	4261.5	4122.1	3524.1	1496.6	593.9	267.9	165.3	130.0	103.2	84.5	73.6
47.5°	4435.2	4303.3	3681.3	1520.3	585.2	250.8	150.6	135.4	101.4	80.2	69.6
50°	4642.6	4493.2	3902.8	1591.1	572.3	233.6	136.3	155.0	101.4	77.3	66.1
52.5°	4902.8	4755.0	4149.9	1700.9	546.8	210.0	122.6	155.4	102.3	73.6	61.8
55°	5230.0	5122.7	4502.6	1821.4	505.9	174.9	106.0	133.5	98.6	66.8	57.7
57.5°	5543.8	5456.2	4824.2	1903.7	451.3	136.7	92.3	107.6	90.2	58.7	51.4
59°	5629.6	5533.9	4942.1	1907.4	410.5	119.1	85.4	88.9	88.3	54.9	47.7
60°	5629.6	5527.9	4976.1	1887.4	380.8	109.5	81.1	79.3	92.0	52.4	45.6
62.5°	5527.6	5384.7	4865.7	1752.4	310.7	93.2	70.8	65.5	82.6	47.1	40.2
65°	5315.5	5107.4	4489.5	1508.2	276.9	85.4	61.1	53.7	57.4	41.5	35.2
67.5°	4961.8	4679.8	3947.1	1218.4	263.5	83.3	52.7	45.6	43.3	35.6	30.8
70°	4338.9	4026.0	3288.6	957.9	252.1	82.3	44.2	38.4	34.9	29.9	26.2
72.5°	3157.9	2831.6	2334.7	749.0	245.2	84.2	35.6	32.1	28.7	23.4	20.3
75°	1806.4	1592.7	1312.3	494.7	208.9	80.5	27.5	26.8	20.6	16.9	14.1
77.5°	933.3	904.9	786.3	189.9	100.1	35.2	18.1	15.6	12.2	10.2	8.4
80°	402.7	398.3	344.7	54.9	26.5	19.7	10.2	6.5	5.6	4.4	3.4
82.5°	139.1	139.1	122.6	18.4	11.8	9.7	1.2	0.0	0.0	0.0	0.0
85°	28.0	31.5	22.2	0.0	4.1	0.0	0.0	0.0	0.0	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°	2144.8	2144.8	2144.8	2144.8	2144.8	2144.8	2144.8	2144.8	2144.8	2144.8	2144.8
2.5°	1870.6	1832.8	1830.4	1806.6	1777.0	1763.6	1755.8	1769.6	1786.4	1788.3	1813.5
5°	1452.0	1412.4	1428.9	1386.8	1395.3	1386.8	1373.1	1375.6	1383.1	1359.7	1388.7
7.5°	1019.7	989.8	1008.8	997.5	1012.5	1018.5	1010.0	997.5	960.7	956.3	981.7
10°	768.6	734.6	714.3	693.1	697.7	707.4	704.3	695.3	671.9	673.1	697.4
12.5°	617.6	579.5	539.3	487.2	474.4	481.6	474.4	469.1	446.7	448.5	470.1
15°	468.5	437.4	395.2	353.4	330.6	332.8	312.8	298.8	284.8	267.9	281.0
17.5°	316.3	297.3	284.8	272.3	245.2	238.9	213.7	186.5	176.0	168.1	173.7
20°	223.9	213.7	208.7	208.0	192.5	184.6	160.0	143.2	137.9	136.3	139.7
22.5°	187.1	179.7	172.5	168.4	160.6	151.6	132.8	124.5	120.7	118.9	121.4
25°	162.8	157.2	149.7	142.9	139.7	130.0	116.6	110.4	108.0	106.0	107.3
27.5°	144.8	139.7	131.0	126.6	124.2	115.7	104.1	99.2	97.0	96.4	96.0
30°	130.4	125.7	117.6	112.6	108.2	100.8	93.9	88.9	86.7	86.1	85.4
32.5°	116.1	112.3	107.0	102.0	97.3	90.5	84.5	80.5	77.0	76.4	76.1
35°	97.9	94.2	91.4	91.1	86.7	80.2	75.8	70.5	67.7	66.8	67.1
37.5°	87.0	82.1	75.8	78.0	76.8	72.0	66.1	60.8	58.0	57.4	57.4
40°	80.2	74.9	67.7	63.9	67.7	66.8	57.4	52.1	49.3	49.0	48.3
42.5°	73.6	68.3	60.2	53.9	55.8	58.7	49.6	44.6	41.8	41.2	40.2
45°	68.9	63.3	54.3	47.1	43.3	49.3	42.4	36.1	34.7	33.3	32.8
47.5°	64.6	59.2	49.0	40.9	34.7	35.6	34.0	29.6	27.8	26.5	26.2
50°	60.8	55.2	44.2	34.9	28.7	26.2	27.5	23.4	21.8	20.6	19.9
52.5°	56.5	51.1	39.3	30.3	24.0	20.6	20.9	18.4	16.9	15.9	15.6
55°	53.0	47.7	35.2	26.5	21.2	16.9	15.0	14.3	13.4	12.8	12.5
57.5°	48.3	43.3	31.2	22.5	18.1	13.7	11.6	11.6	11.3	10.6	10.2
59°	45.6	41.2	28.7	20.3	16.5	11.8	10.2	10.6	10.2	9.7	9.3
60°	43.3	39.3	26.8	18.7	15.6	10.9	9.3	10.0	9.7	9.0	8.8
62.5°	38.4	35.6	23.1	15.6	13.7	8.8	7.8	8.4	8.4	8.1	7.8
65°	33.7	30.6	19.7	13.1	12.8	7.5	6.2	7.5	7.8	7.2	6.5
67.5°	29.3	26.2	17.1	10.6	11.8	6.0	4.7	6.2	8.4	6.5	6.0
70°	25.0	21.8	13.4	8.4	12.5	4.1	3.7	5.6	10.0	7.2	5.6
72.5°	19.4	16.9	9.3	6.2	13.4	2.8	2.8	4.7	11.3	7.8	5.3
75°	13.4	10.9	5.6	3.7	10.9	1.9	1.9	4.4	10.6	7.2	5.0
77.5°	7.8	6.0	1.9	0.3	5.6	0.0	0.3	3.1	7.5	4.4	2.1
80°	2.8	1.2	0.0	0.0	3.4	0.0	0.0	0.0	0.7	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2144.8	2144.8	2144.8	2144.8	2144.8	2144.8	2144.8	2144.8	2144.8	2144.8	2144.8
2.5°	1820.1	1862.2	1899.9	1957.0	2024.7	2102.7	2169.8	2241.8	2309.5	2337.5	2356.9
5°	1394.6	1446.7	1507.5	1591.5	1703.1	1840.6	1969.5	2115.2	2271.8	2350.0	2423.6
7.5°	985.9	1039.0	1114.5	1203.7	1338.8	1502.5	1671.0	1872.1	2084.2	2208.1	2330.1
10°	709.0	774.2	844.7	966.7	1103.9	1259.3	1432.6	1657.2	1893.6	2031.0	2177.9
12.5°	482.5	556.8	663.4	800.1	961.4	1113.6	1264.2	1478.6	1753.0	1889.0	2046.5
15°	289.4	330.6	443.5	601.7	799.5	989.1	1154.1	1369.0	1661.6	1828.2	1991.9
17.5°	178.4	197.5	258.9	388.6	596.4	836.3	1062.4	1331.9	1674.7	1877.4	2052.8
20°	142.2	149.7	169.4	229.5	395.2	667.8	959.1	1324.4	1781.7	2031.2	2219.3
22.5°	123.5	130.7	143.8	166.8	248.6	500.1	861.2	1331.3	1935.2	2261.8	2481.4
25°	108.9	115.1	127.6	146.6	182.1	352.1	756.4	1361.8	2135.1	2547.8	2781.1
27.5°	97.3	102.7	114.2	131.6	156.3	245.8	637.6	1399.0	2372.2	2840.4	3070.6
30°	86.7	91.4	101.7	117.9	135.7	189.0	507.2	1424.2	2609.5	3070.6	3277.4
32.5°	77.7	81.1	90.5	104.1	117.9	150.6	385.6	1420.1	2785.8	3262.1	3426.1
35°	68.3	71.7	79.8	91.7	102.7	124.5	303.2	1344.4	2939.2	3460.8	3596.5
37.5°	58.0	62.4	70.1	80.8	88.3	109.5	245.2	1253.0	3094.9	3687.9	3786.5
40°	49.3	53.7	60.6	72.0	76.8	103.9	188.4	1141.6	3269.9	3941.8	3994.8
42.5°	40.9	44.9	52.1	62.0	72.4	89.5	139.5	1014.4	3438.1	4158.9	4184.8
45°	33.1	37.1	44.6	54.6	77.3	74.2	108.0	878.1	3573.7	4339.5	4347.9
47.5°	26.2	29.9	37.7	51.4	72.0	59.2	77.0	771.0	3687.5	4480.5	4458.3
50°	20.3	23.4	31.5	59.0	63.0	49.0	58.3	735.5	3789.5	4567.8	4510.4
52.5°	15.9	18.7	25.9	55.2	49.0	40.5	49.0	768.9	3929.3	4640.1	4539.7
55°	12.8	15.6	20.3	31.5	33.3	34.3	41.8	800.1	4170.4	4809.9	4712.9
57.5°	10.6	13.4	16.5	22.2	25.2	29.0	37.1	803.6	4454.6	5091.8	5000.2
59°	9.7	12.2	15.0	19.7	22.2	26.5	34.9	784.8	4554.7	5194.5	5148.6
60°	9.0	11.6	14.1	18.1	20.6	25.0	33.7	767.0	4559.1	5190.7	5211.9
62.5°	7.8	10.2	12.5	15.3	17.5	21.2	30.3	701.2	4374.5	5020.8	5173.9
65°	6.9	9.0	11.3	13.1	15.0	19.0	27.5	581.1	4059.0	4746.5	4913.4
67.5°	6.2	7.8	10.2	11.6	13.4	16.9	24.3	414.3	3665.1	4411.3	4519.5
70°	5.6	7.5	9.3	10.6	12.2	14.6	20.9	238.0	3094.9	3920.2	3997.3
72.5°	5.3	7.2	8.4	10.0	10.9	13.1	19.0	112.0	2266.1	3140.4	3341.6
75°	4.7	6.5	7.8	9.3	10.2	11.8	16.2	53.7	1507.2	2272.7	2501.3
77.5°	2.8	5.3	7.2	8.4	9.0	10.2	13.4	30.8	962.0	1573.0	1852.8
80°	0.0	1.9	5.3	7.2	7.8	8.8	10.2	24.3	514.7	898.7	1078.6
82.5°	0.0	0.0	3.7	5.6	5.3	6.0	7.8	15.3	232.0	587.3	661.9
85°	0.0	0.0	1.2	4.4	3.7	2.8	5.3	5.3	50.9	297.3	370.8
87.5°	0.0	0.0	0.0	0.3	1.9	1.2	2.1	0.7	0.3	22.2	89.8
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°	2144.8	2144.8	2144.8	2144.8	2144.8	2144.8	2144.8	2144.8	2144.8	2144.8
2.5°	2424.5	2447.6	2486.7	2505.0	2496.0	2457.6	2411.8	2365.0	2337.5	2348.4
5°	2573.7	2692.5	2761.1	2783.9	2745.8	2659.8	2547.1	2398.7	2346.0	2331.7
7.5°	2573.7	2797.3	2938.9	2963.9	2879.0	2710.3	2499.2	2267.4	2190.3	2162.2
10°	2483.2	2787.7	2985.1	3024.7	2906.1	2653.9	2370.9	2106.4	2015.0	1986.1
12.5°	2381.2	2709.0	2917.1	2971.7	2874.4	2597.7	2282.0	1997.5	1889.9	1864.7
15°	2318.5	2612.3	2784.6	2824.2	2783.0	2564.9	2260.8	1964.8	1838.1	1813.8
17.5°	2341.0	2537.5	2599.6	2622.7	2650.4	2553.4	2318.5	2036.5	1876.2	1853.1
20°	2425.5	2458.5	2426.5	2455.5	2530.4	2564.6	2456.1	2210.0	2017.5	1986.6
22.5°	2569.0	2417.7	2327.6	2339.1	2430.2	2601.7	2666.3	2457.6	2235.5	2196.9
25°	2736.2	2450.8	2272.7	2262.4	2356.0	2650.7	2858.5	2727.1	2493.5	2450.8
27.5°	2946.4	2525.1	2261.4	2251.2	2330.1	2696.6	3018.2	2993.5	2765.2	2692.2
30°	3108.7	2598.0	2294.8	2271.1	2356.0	2728.4	3146.4	3219.7	2981.7	2933.4
32.5°	3225.0	2684.1	2349.1	2314.8	2428.9	2783.3	3245.2	3426.8	3181.9	3108.7
35°	3313.5	2777.7	2436.7	2380.3	2529.4	2866.6	3337.9	3647.3	3394.9	3314.8
37.5°	3396.5	2909.0	2573.7	2506.3	2686.9	3000.7	3435.8	3897.5	3633.3	3537.6
40°	3512.2	3057.8	2784.9	2725.0	2951.7	3183.5	3558.1	4158.2	3904.3	3783.9
42.5°	3628.0	3217.5	3001.0	3017.2	3282.0	3405.6	3715.9	4434.0	4171.9	4043.5
45°	3733.7	3382.2	3308.9	3383.8	3588.7	3649.2	3872.8	4593.4	4385.6	4261.5
47.5°	3827.9	3588.0	3614.9	3814.2	3937.4	3869.7	3990.1	4731.0	4544.7	4435.2
50°	3937.4	3854.5	4018.2	4300.2	4338.9	4069.4	4096.8	4893.8	4730.6	4642.6
52.5°	4057.2	4135.1	4464.9	4713.4	4701.0	4286.1	4204.1	5076.3	4985.5	4902.8
55°	4193.2	4362.0	4858.2	5100.2	5089.7	4528.2	4381.9	5301.7	5304.9	5230.0
57.5°	4395.0	4557.2	5125.2	5413.1	5430.9	4807.7	4683.2	5554.4	5593.8	5543.8
59°	4539.7	4683.8	5230.9	5543.8	5616.2	5023.8	4903.4	5701.0	5675.2	5629.6
60°	4647.0	4764.3	5283.4	5612.1	5723.8	5170.5	5065.9	5787.1	5684.8	5629.6
62.5°	4912.5	4939.6	5377.8	5689.5	5847.6	5496.1	5523.2	5933.7	5617.7	5527.6
65°	5036.3	5050.4	5376.6	5551.0	5727.8	5749.7	5938.1	5938.1	5453.9	5315.5
67.5°	4984.5	4916.8	5109.9	5091.8	5268.4	5599.1	6094.0	5720.4	5140.8	4961.8
70°	4563.5	4303.0	4217.2	4225.0	4360.1	4870.0	5785.3	5079.6	4548.2	4338.9
72.5°	3797.1	3172.3	2960.5	3202.2	3237.4	3742.8	4930.2	3825.4	3354.1	3157.9
75°	3054.1	2236.2	1891.8	2146.9	2206.8	2739.0	3813.8	2382.4	1959.2	1806.4
77.5°	2194.1	1605.1	1357.5	1339.8	1417.1	1737.1	2706.2	1199.0	1000.0	933.3
80°	1246.4	1056.5	1137.6	1073.3	1112.4	1086.1	1285.7	525.9	430.7	402.7
82.5°	752.3	624.5	676.2	563.0	712.4	620.4	495.3	168.4	146.3	139.1
85°	489.4	341.2	177.8	119.1	245.5	396.5	110.8	45.8	35.2	28.0
87.5°	168.8	87.0	8.8	3.7	26.2	74.0	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)