

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: P651738

Luminaire Tested: **GALN-SA2A-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651738
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-SA2A-840-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 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: 4275.6 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

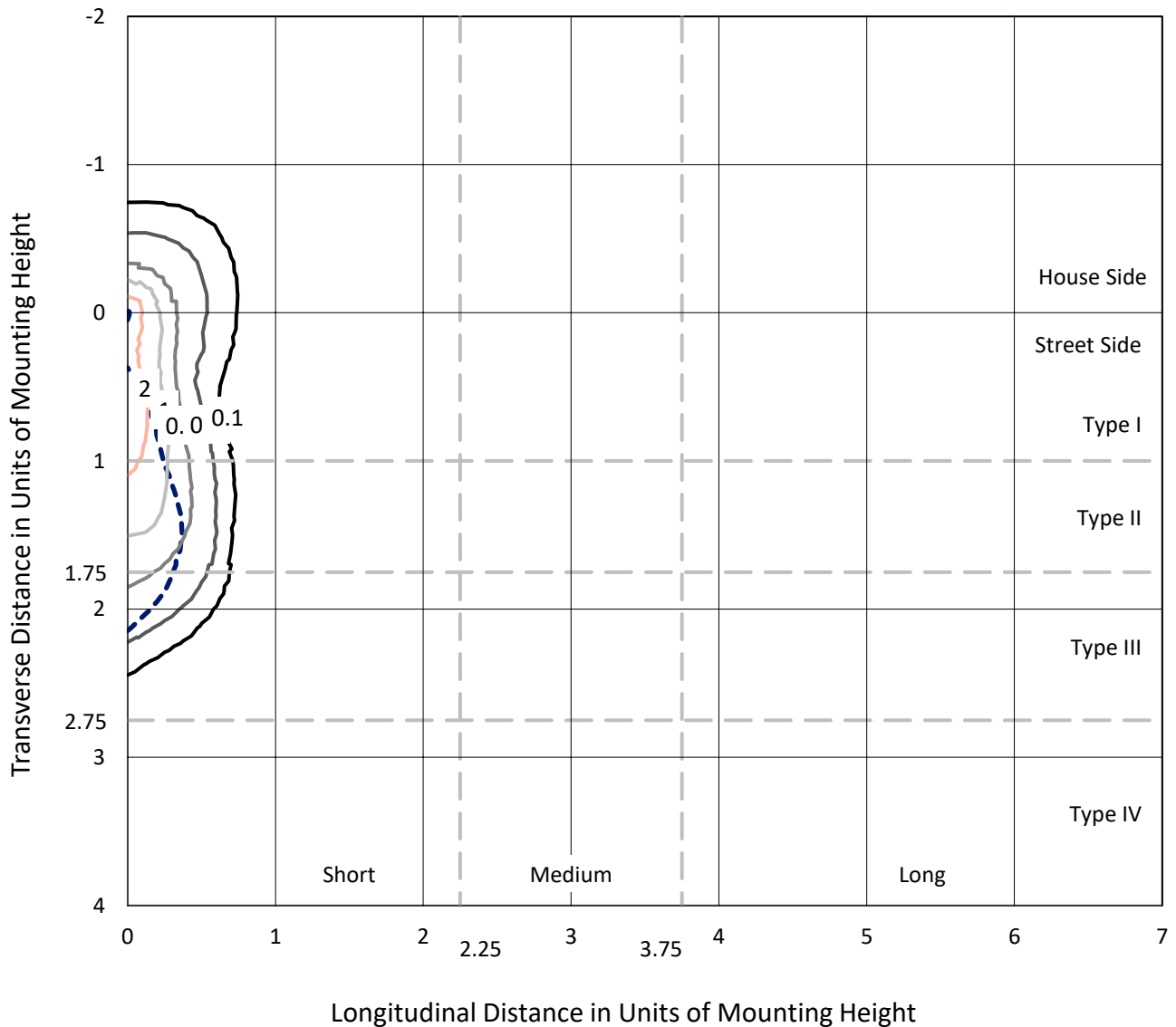
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

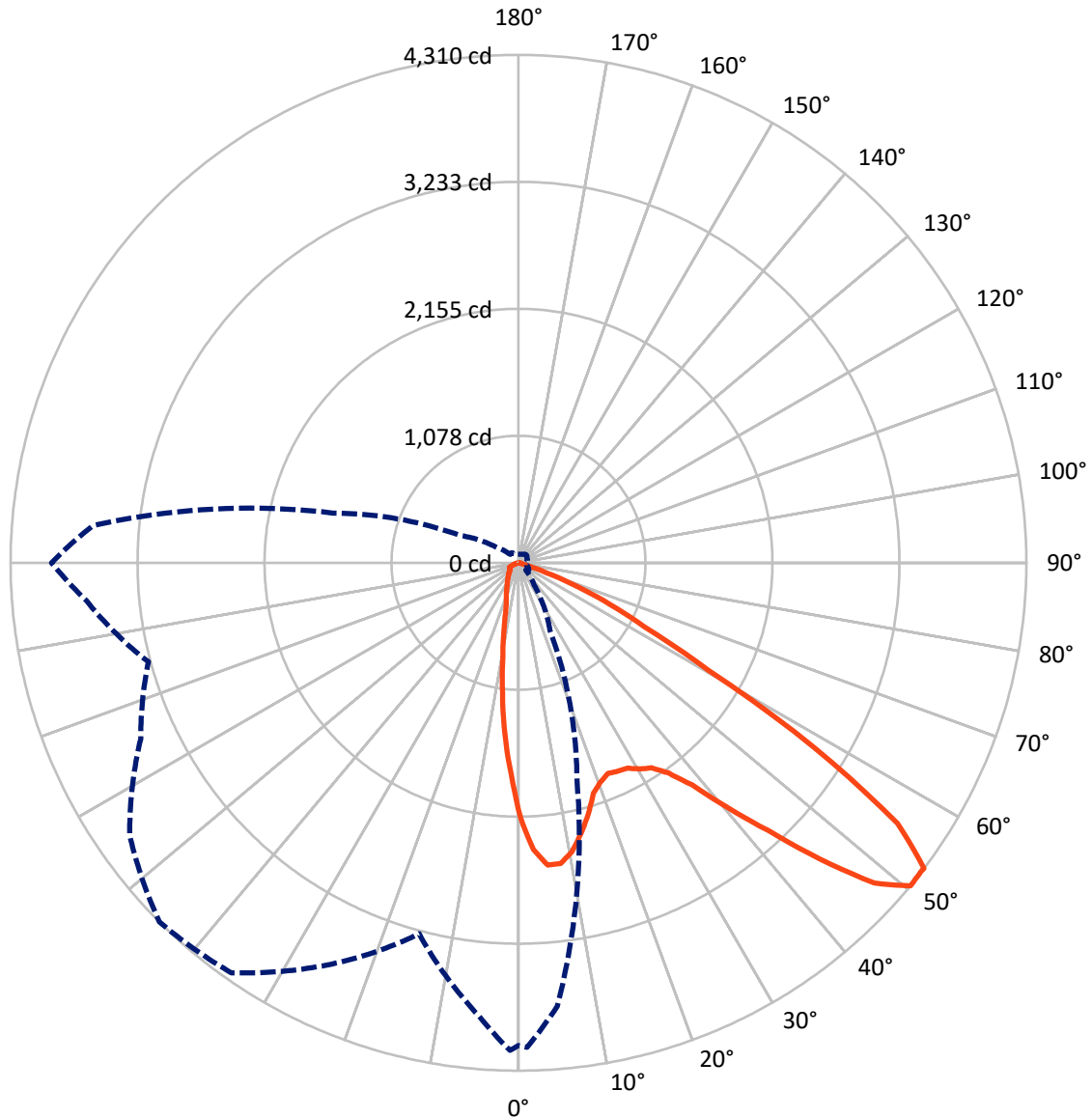
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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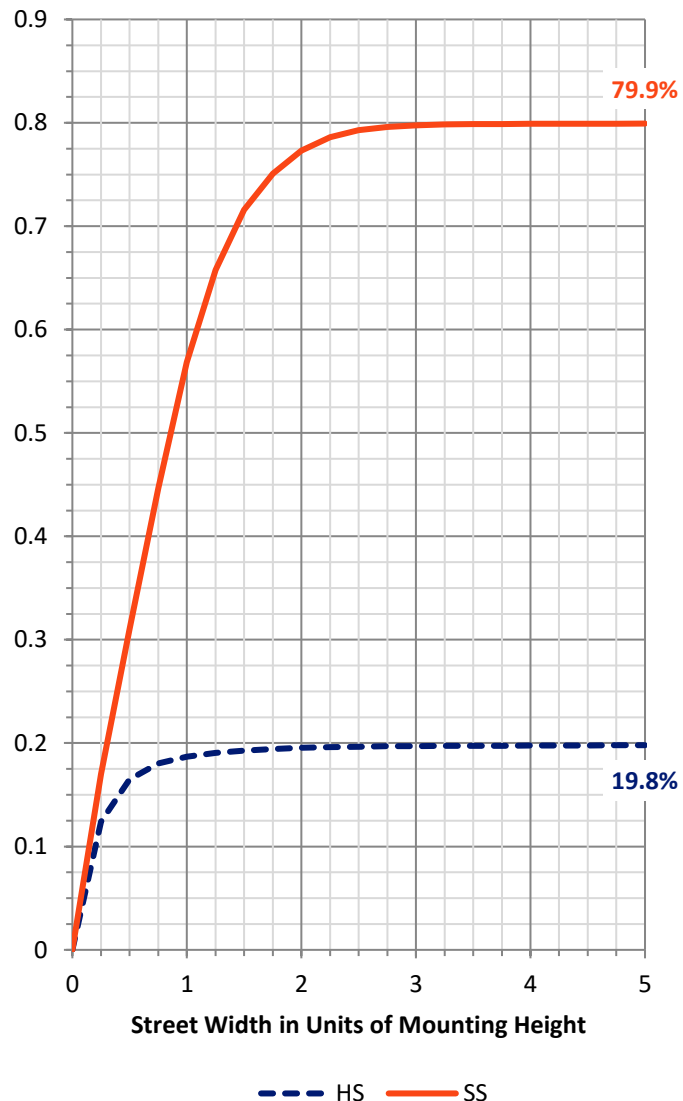
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	856.4	0.0	856.4
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	3419.2	0.0	3419.2
	% Fixture	80.0	0.0	80.0
Total	Lumens	4275.6	0.0	4275.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.0	3.7
10°-20°	314.1	7.3
20°-30°	471.9	11.0
30°-40°	708.3	16.6
40°-50°	995.4	23.3
50°-60°	1073.8	25.1
60°-70°	498.5	11.7
70°-80°	46.9	1.1
80°-90°	8.6	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°	4275.6	100.0
0°-180°	4275.6	100.0

Coefficient of Utilization

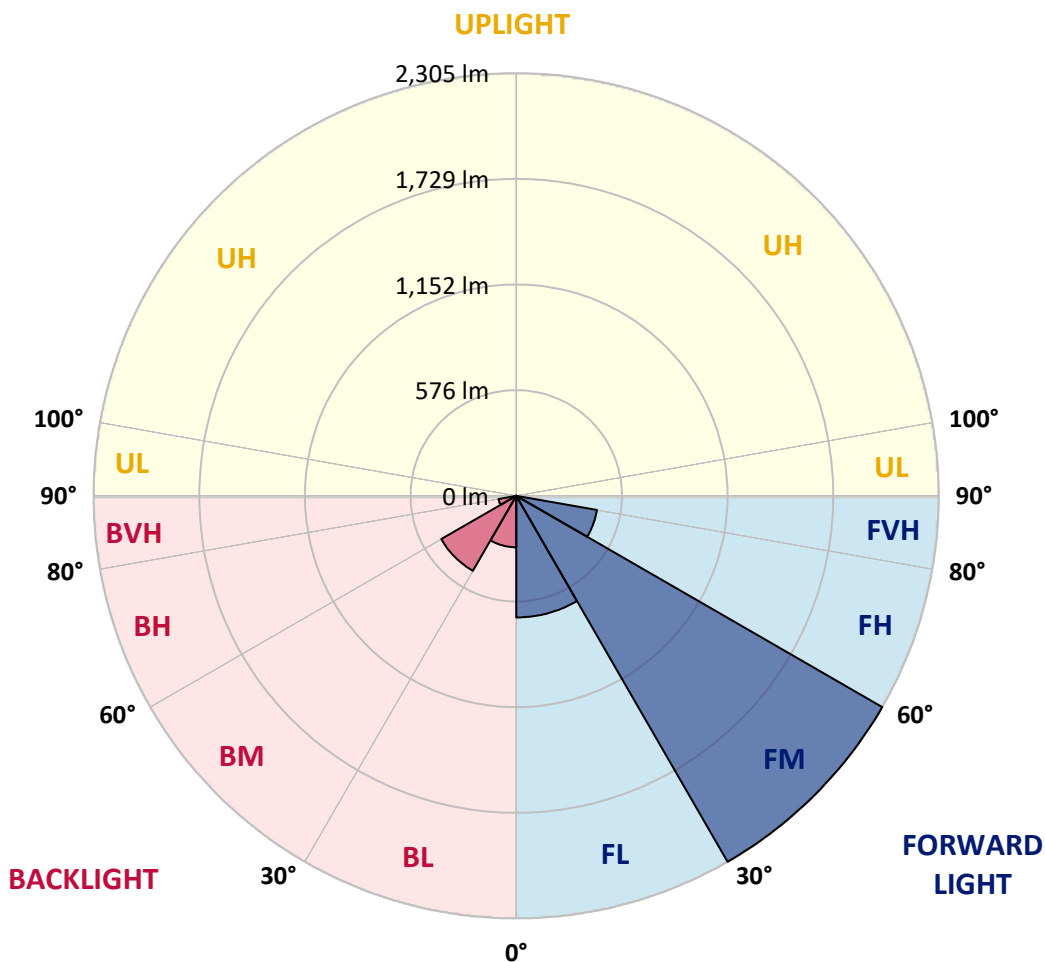


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	663.3	15.5			
FM (30°-60°)	2304.9	53.9			
FH (60°-80°)	447.1	10.5			G0/660
FVH (80°-90°)	3.9	0.1			G0/10
BL (0°-30°)	280.7	6.6	B1/500		
BM (30°-60°)	472.6	11.1	B1/1000		
BH (60°-80°)	98.3	2.3	B0/110		G0/110
BVH (80°-90°)	4.8	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-G0
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2168.3	2168.3	2168.3	2168.3	2168.3	2168.3	2168.3	2168.3	2168.3	2168.3	2168.3
2.5°	2254.0	2219.2	2175.1	2138.6	2084.3	1974.8	1945.1	1909.6	1879.9	1840.0	1784.0
5°	2049.5	2038.5	2018.1	1880.7	1781.5	1649.1	1540.5	1494.7	1434.5	1385.3	1349.6
7.5°	1893.4	1849.4	1784.9	1646.6	1488.0	1346.3	1225.8	1155.4	1075.6	1048.5	1000.2
10°	1726.3	1736.5	1641.5	1447.2	1255.5	1141.0	1066.3	998.4	926.4	878.8	810.1
12.5°	1672.8	1639.8	1566.9	1326.8	1163.0	1056.1	965.4	881.4	805.1	728.7	662.5
15°	1707.7	1656.8	1554.9	1301.3	1091.8	958.6	845.0	731.2	660.9	563.3	494.6
17.5°	1832.4	1791.7	1655.1	1328.4	1055.3	865.3	696.4	579.4	471.6	383.4	348.7
20°	2040.2	1982.5	1811.2	1363.3	1001.0	752.4	565.0	420.8	319.0	281.7	262.1
22.5°	2243.8	2212.4	1996.1	1430.3	952.7	652.4	424.1	283.3	238.3	231.6	218.8
25°	2631.5	2537.3	2278.6	1551.6	915.3	558.2	319.8	228.2	201.9	196.8	198.5
27.5°	2862.2	2783.3	2539.8	1632.1	873.8	486.1	270.6	209.5	191.7	180.7	176.4
30°	3083.6	2992.0	2669.7	1679.6	784.7	409.7	240.1	201.1	196.8	180.7	175.6
32.5°	3254.2	3164.2	2857.1	1751.0	748.2	360.5	197.6	156.9	145.9	144.2	159.5
35°	3515.4	3419.6	3017.4	1790.0	720.2	335.1	171.4	139.9	127.2	122.2	123.0
37.5°	3758.8	3693.6	3165.9	1805.2	690.5	327.5	153.6	125.6	114.5	111.1	110.3
40°	3962.5	3816.5	3306.7	1821.4	677.8	313.0	142.5	114.5	106.9	101.8	101.8
42.5°	4055.8	3907.4	3464.5	1812.0	674.4	290.1	142.5	105.2	99.2	94.2	93.4
45°	4035.5	3975.2	3534.9	1807.7	674.4	267.2	129.8	102.7	94.2	87.4	85.7
47.5°	4088.0	4009.1	3623.1	1825.6	660.9	251.1	109.4	107.7	89.1	80.6	78.9
50°	4097.4	4112.7	3776.7	1918.1	631.2	230.8	85.7	106.1	85.7	72.9	71.2
52°	4158.4	4063.5	3823.4	1967.3	599.7	215.5	72.1	90.7	82.2	67.9	66.2
52.5°	4074.5	4136.4	3834.4	1985.1	603.2	205.3	69.6	89.1	80.6	67.9	63.7
55°	3980.3	4039.7	3789.4	2023.2	553.1	161.2	54.3	64.5	72.9	59.4	56.9
57.5°	3459.5	3519.7	3293.2	1852.7	450.4	113.7	45.0	48.4	64.5	55.2	52.6
60°	3075.1	3031.9	2763.8	1545.6	319.8	63.7	35.7	37.3	70.4	50.9	50.0
62.5°	2810.5	2718.0	2310.0	1193.5	195.1	42.4	28.0	28.8	54.3	47.5	47.5
65°	2079.2	1975.8	1534.6	721.9	95.9	29.7	21.2	22.9	33.9	40.7	40.7
67.5°	1186.8	1147.0	741.4	325.7	39.9	18.7	16.1	17.8	26.3	33.1	31.4
70°	545.5	489.5	285.0	68.7	18.7	12.7	12.7	14.4	21.2	24.6	22.9
72.5°	159.5	151.0	69.6	11.0	7.7	7.7	8.5	11.0	16.1	18.7	17.0
75°	11.9	7.7	5.1	3.4	3.4	5.1	6.8	11.0	16.1	17.8	14.4
77.5°	0.8	1.7	0.8	0.8	2.5	5.1	7.7	13.5	21.2	22.0	16.1
80°	0.8	0.8	0.0	0.8	2.5	5.1	8.5	15.3	23.7	25.5	13.5
82.5°	0.0	0.0	0.0	0.8	3.4	6.8	10.2	16.1	22.0	27.2	14.4
85°	0.0	0.0	0.0	0.8	5.1	9.3	11.9	4.2	2.5	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°	2168.3	2168.3	2168.3	2168.3	2168.3	2168.3	2168.3	2168.3	2168.3	2168.3	2168.3
2.5°	1823.9	1801.8	1793.3	1801.0	1798.4	1795.9	1842.5	1832.4	1830.7	1845.9	1842.5
5°	1369.1	1330.1	1437.0	1393.8	1438.7	1465.9	1471.0	1473.5	1504.9	1471.8	1515.1
7.5°	975.6	985.7	984.9	1013.7	1065.5	1111.3	1138.5	1117.3	1115.5	1111.3	1092.6
10°	779.6	761.8	758.4	751.6	767.7	806.8	839.8	813.5	794.8	820.3	812.7
12.5°	637.1	612.5	598.9	571.8	572.6	598.9	598.9	598.9	617.5	632.0	643.0
15°	488.6	468.3	468.3	441.1	435.2	436.1	449.6	451.3	481.0	489.5	493.8
17.5°	341.9	330.8	343.5	354.6	347.8	349.5	354.6	356.3	360.5	357.2	365.6
20°	263.0	261.3	264.7	284.2	298.6	307.0	301.2	292.7	287.5	275.7	275.7
22.5°	223.1	226.5	232.5	248.5	267.2	272.3	265.5	246.0	230.8	229.0	229.9
25°	198.5	201.9	211.3	221.4	231.6	240.1	233.3	218.8	210.4	202.8	202.8
27.5°	183.3	184.9	190.0	197.6	206.1	212.9	210.4	202.8	193.4	190.0	182.4
30°	171.4	173.9	179.8	181.6	189.1	192.6	188.3	186.6	180.7	176.4	173.9
32.5°	165.4	164.6	168.8	170.5	171.4	173.9	168.8	171.4	170.5	163.7	161.2
35°	124.7	131.4	142.5	151.9	154.4	157.8	156.9	153.6	144.2	136.6	127.2
37.5°	111.9	116.2	122.2	129.8	139.9	144.2	142.5	134.1	123.0	117.9	116.2
40°	103.5	106.1	111.1	116.2	126.4	134.1	128.1	120.4	111.9	107.7	105.2
42.5°	95.9	96.7	99.2	104.4	111.9	123.9	113.7	103.5	100.1	97.6	95.9
45°	87.4	87.4	90.7	93.4	101.8	112.9	102.7	93.4	91.6	89.9	89.1
47.5°	80.6	81.4	83.2	86.5	93.4	100.9	94.2	86.5	82.2	81.4	79.7
50°	72.1	72.9	76.4	79.7	88.2	92.4	88.2	79.7	75.5	72.9	72.9
52°	65.3	67.9	71.2	78.0	84.0	90.7	85.7	76.4	71.2	68.7	67.0
52.5°	64.5	66.2	69.6	77.2	84.0	89.9	84.9	75.5	69.6	67.9	66.2
55°	57.7	60.2	66.2	75.5	83.2	89.9	83.2	74.7	66.2	61.9	60.2
57.5°	55.2	56.9	64.5	76.4	82.2	89.9	83.2	74.7	66.2	58.5	56.9
60°	52.6	56.0	64.5	73.8	81.4	90.7	84.0	73.8	64.5	55.2	55.2
62.5°	50.0	52.6	63.7	72.1	78.0	87.4	80.6	72.1	61.9	52.6	51.7
65°	43.2	47.5	56.0	60.2	67.0	75.5	68.7	62.7	54.3	46.7	45.8
67.5°	33.1	34.8	41.5	46.7	50.9	58.5	55.2	47.5	41.5	35.7	35.7
70°	22.9	24.6	29.7	32.2	36.5	40.7	38.2	32.2	28.0	24.6	23.7
72.5°	16.1	17.0	18.7	20.4	22.0	23.7	22.9	18.7	16.1	15.3	14.4
75°	12.7	14.4	15.3	14.4	13.5	12.7	12.7	11.0	9.3	8.5	8.5
77.5°	12.7	13.5	12.7	11.0	9.3	8.5	7.7	6.8	5.1	4.2	5.1
80°	11.0	11.0	11.0	9.3	8.5	7.7	6.8	6.0	5.1	4.2	4.2
82.5°	11.9	11.9	11.0	9.3	9.3	7.7	7.7	6.8	6.0	4.2	4.2
85°	0.0	0.0	0.0	1.7	4.2	7.7	7.7	6.8	6.0	5.1	5.1
87.5°	0.0	0.0	0.0	0.0	0.8	1.7	3.4	4.2	5.1	5.1	5.1
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°	2168.3	2168.3	2168.3	2168.3	2168.3	2168.3	2168.3	2168.3	2168.3	2168.3	2168.3
2.5°	1873.1	1905.3	1966.4	2027.5	2064.8	2108.9	2188.6	2231.1	2286.2	2313.3	2366.8
5°	1509.2	1585.5	1612.6	1682.2	1756.8	1831.5	1950.3	2080.9	2189.5	2264.1	2360.9
7.5°	1101.1	1119.0	1224.1	1270.8	1392.9	1528.7	1690.7	1855.2	1992.7	2114.9	2188.6
10°	825.4	890.7	956.9	1046.0	1144.3	1284.4	1439.6	1621.1	1799.2	1921.4	2014.8
12.5°	663.4	715.1	803.3	899.2	1020.6	1113.0	1269.1	1449.0	1679.6	1799.2	1922.3
15°	502.2	568.3	668.5	767.7	895.8	993.4	1151.2	1377.6	1674.6	1839.2	1945.1
17.5°	372.4	417.4	507.3	618.4	749.1	886.5	1099.4	1370.0	1731.5	1927.4	2036.8
20°	285.0	300.3	357.2	456.4	598.0	777.9	1015.4	1403.1	1899.4	2142.0	2253.1
22.5°	230.8	237.5	259.6	328.3	465.7	682.9	975.6	1426.0	2088.5	2399.0	2547.5
25°	201.1	199.3	213.8	243.5	363.9	593.8	924.7	1512.5	2320.2	2701.0	2834.3
27.5°	183.3	183.3	190.0	211.3	302.0	536.1	892.4	1574.4	2553.4	2966.5	3038.7
30°	173.9	175.6	195.1	201.9	251.1	467.4	839.0	1637.3	2776.6	3136.3	3235.5
32.5°	161.2	154.4	150.1	167.1	211.3	405.5	785.6	1663.6	2957.2	3344.1	3428.9
35°	123.9	120.4	125.6	138.3	181.6	352.9	726.1	1693.3	3165.0	3585.0	3601.9
37.5°	111.9	111.1	114.5	125.6	152.7	307.0	683.7	1685.6	3323.7	3784.3	3738.5
40°	103.5	103.5	106.1	115.4	136.6	274.8	639.7	1678.8	3477.2	4008.3	3874.2
42.5°	96.7	96.7	100.9	106.9	129.8	253.6	606.5	1669.5	3606.2	4145.7	3954.0
45°	87.4	89.9	96.7	102.7	131.4	239.3	582.0	1633.8	3650.3	4144.0	3915.8
47.5°	80.6	84.0	90.7	99.2	118.7	235.0	565.0	1602.4	3635.1	4042.2	3796.2
50°	72.9	77.2	86.5	100.9	100.9	226.5	547.2	1630.4	3624.0	3963.3	3681.6
52°	67.9	71.2	83.2	98.4	88.2	208.7	536.1	1684.8	3668.9	3953.1	3630.8
52.5°	67.0	69.6	80.6	96.7	84.0	205.3	528.5	1697.5	3683.4	3927.7	3665.6
55°	59.4	62.7	73.8	75.5	68.7	168.8	503.9	1726.3	3612.1	3877.7	3632.4
57.5°	56.0	57.7	65.3	61.9	59.4	127.2	433.5	1681.3	3208.3	3444.1	3379.6
60°	51.7	53.4	61.1	48.4	50.0	89.1	325.7	1460.0	2576.3	2869.8	2986.1
62.5°	50.0	49.2	57.7	39.0	42.4	64.5	229.9	1186.8	1985.1	2362.5	2563.6
65°	44.2	43.2	41.5	33.1	36.5	50.0	137.4	774.5	1398.8	1787.4	1897.7
67.5°	33.9	35.7	30.5	26.3	30.5	39.0	76.4	347.0	733.8	1072.3	1161.3
70°	23.7	25.5	24.6	22.9	27.2	32.2	44.2	118.7	303.7	563.3	621.0
72.5°	14.4	17.8	18.7	19.5	23.7	28.0	31.4	38.2	80.6	199.3	247.7
75°	8.5	11.9	14.4	17.0	19.5	23.7	26.3	27.2	28.0	37.3	60.2
77.5°	6.0	8.5	12.7	16.1	19.5	23.7	28.0	29.7	28.0	26.3	28.0
80°	5.1	8.5	11.9	15.3	20.4	24.6	28.0	28.0	27.2	23.7	25.5
82.5°	5.1	8.5	12.7	16.1	19.5	23.7	27.2	28.0	25.5	23.7	24.6
85°	6.0	9.3	13.5	17.0	21.2	19.5	17.8	14.4	13.5	11.0	11.9
87.5°	6.0	8.5	8.5	9.3	10.2	10.2	10.2	9.3	7.7	6.8	6.8
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°	2168.3	2168.3	2168.3	2168.3	2168.3	2168.3	2168.3	2168.3	2168.3	2168.3
2.5°	2369.3	2437.2	2434.7	2436.4	2426.2	2357.5	2324.4	2240.4	2264.1	2254.0
5°	2460.1	2527.1	2584.8	2578.0	2500.0	2406.7	2268.4	2137.7	2102.2	2049.5
7.5°	2369.3	2530.5	2584.0	2576.3	2460.9	2341.3	2120.7	1990.1	1928.2	1893.4
10°	2225.1	2411.7	2477.9	2491.5	2413.4	2231.9	2029.2	1819.7	1786.5	1726.3
12.5°	2142.9	2278.6	2319.3	2355.8	2328.6	2192.9	1959.6	1758.5	1712.8	1672.8
15°	2075.8	2156.4	2173.4	2214.9	2231.1	2158.1	1996.1	1824.7	1711.9	1707.7
17.5°	2137.7	2104.7	2042.7	2055.5	2106.4	2158.9	2090.2	1955.3	1845.9	1832.4
20°	2240.4	2094.5	1954.5	1985.9	2028.3	2189.5	2232.8	2137.7	2075.0	2040.2
22.5°	2358.3	2112.3	1926.6	1941.8	2022.4	2258.3	2463.5	2410.9	2293.8	2243.8
25°	2576.3	2161.5	1948.6	1958.8	2069.0	2354.0	2672.2	2711.2	2641.7	2631.5
27.5°	2789.3	2288.8	1997.0	1974.0	2092.8	2447.4	2798.6	3008.1	2886.0	2862.2
30°	2897.8	2392.2	2069.0	2030.0	2191.2	2504.2	2875.0	3201.5	3094.6	3083.6
32.5°	3064.1	2486.4	2125.0	2075.0	2246.3	2574.6	3017.4	3412.8	3309.3	3254.2
35°	3133.7	2589.0	2248.0	2189.5	2404.1	2673.0	3090.4	3601.1	3568.9	3515.4
37.5°	3267.7	2699.4	2393.1	2389.7	2595.0	2801.1	3221.9	3857.2	3851.4	3758.8
40°	3278.7	2819.8	2622.2	2729.0	2890.2	3024.2	3337.3	3928.6	4025.3	3962.5
42.5°	3295.7	3031.0	3018.3	3106.5	3244.8	3216.0	3341.5	3945.5	4093.1	4055.8
45°	3303.4	3242.2	3421.3	3584.1	3641.8	3467.0	3301.6	3913.3	4128.7	4035.5
47.5°	3242.2	3423.8	3747.0	4061.7	4078.7	3621.4	3284.7	3880.2	4149.9	4088.0
50°	3250.7	3537.5	4028.6	4310.3	4248.4	3758.0	3258.4	3859.9	4138.9	4097.4
52°	3230.4	3540.0	4068.5	4305.2	4261.9	3682.6	3213.4	3781.8	4128.7	4158.4
52.5°	3253.3	3524.7	4027.0	4308.6	4252.6	3719.8	3207.5	3825.0	4134.7	4074.5
55°	3174.4	3343.2	3783.5	3903.1	3894.6	3376.3	3025.1	3681.6	3979.4	3980.3
57.5°	2869.0	2897.8	2967.4	2964.9	2925.8	2654.4	2587.3	3385.6	3547.7	3459.5
60°	2528.0	2121.7	1934.1	1857.8	1814.5	1770.5	2288.8	3097.2	3112.5	3075.1
62.5°	2184.4	1471.0	1221.6	1200.4	1210.5	1371.8	2212.4	2982.7	2891.0	2810.5
65°	1762.8	1072.3	887.3	859.3	958.6	1132.5	1790.8	2287.0	2146.2	2079.2
67.5°	1107.0	782.1	599.7	547.2	666.7	779.6	1176.6	1437.0	1279.2	1186.8
70°	656.6	436.9	271.5	243.5	274.0	415.7	659.2	716.8	593.0	545.5
72.5°	258.8	160.3	75.5	64.5	67.0	145.9	242.6	236.7	179.0	159.5
75°	69.6	48.4	26.3	21.2	17.8	27.2	39.0	25.5	9.3	11.9
77.5°	32.2	28.8	22.9	17.8	13.5	10.2	5.1	1.7	1.7	0.8
80°	28.0	24.6	21.2	17.8	13.5	8.5	4.2	0.8	0.8	0.8
82.5°	26.3	22.9	19.5	16.1	12.7	8.5	4.2	0.8	0.0	0.0
85°	11.0	14.4	16.1	15.3	13.5	8.5	4.2	0.8	0.0	0.0
87.5°	6.0	5.1	4.2	3.4	2.5	1.7	1.7	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

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