

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: P382808

Luminaire Tested: **GLEON-SA1D-735-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382808
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-SA1D-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5610.7 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

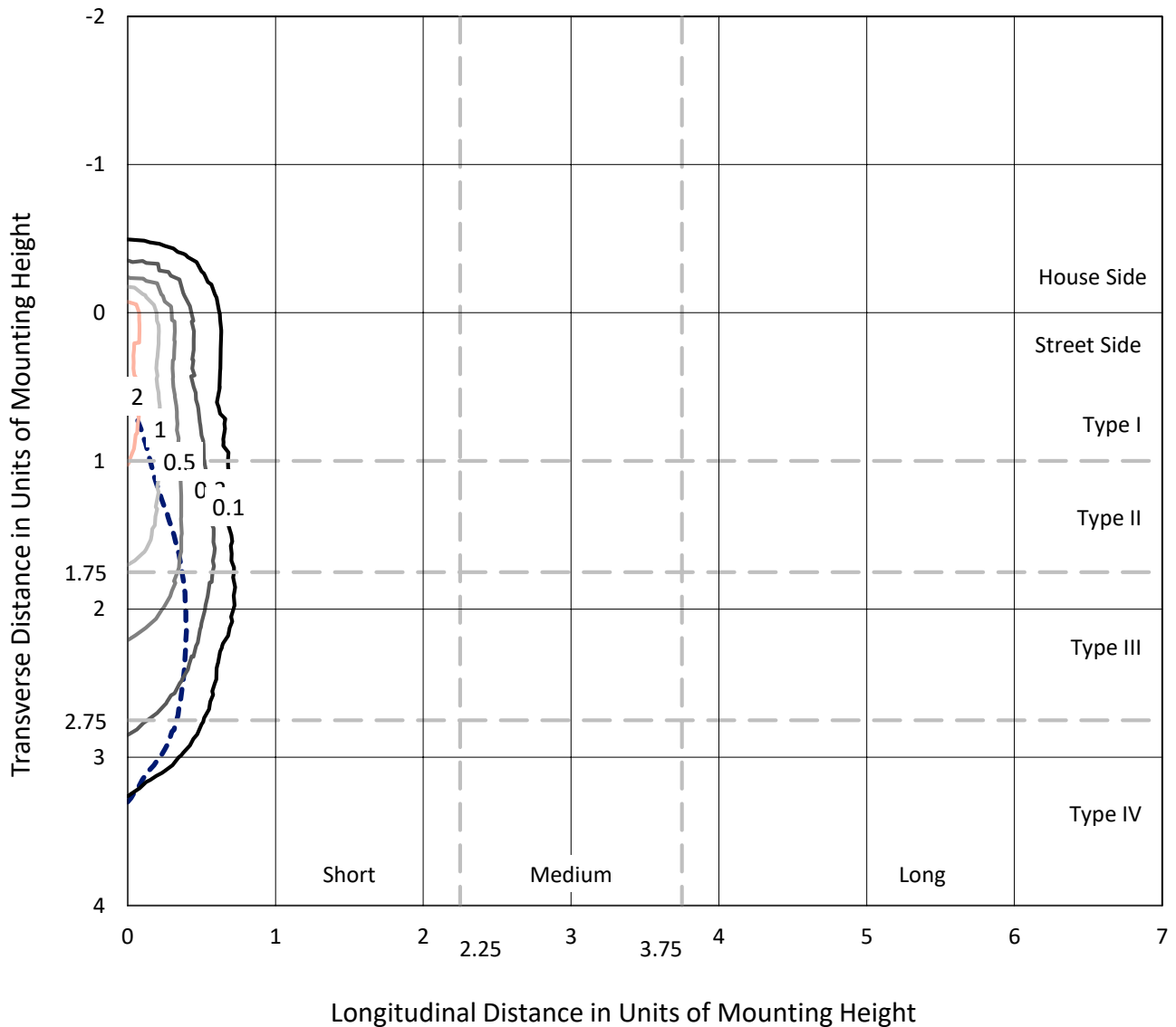




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Iso-Footcandle Lines of Horizontal Illumination

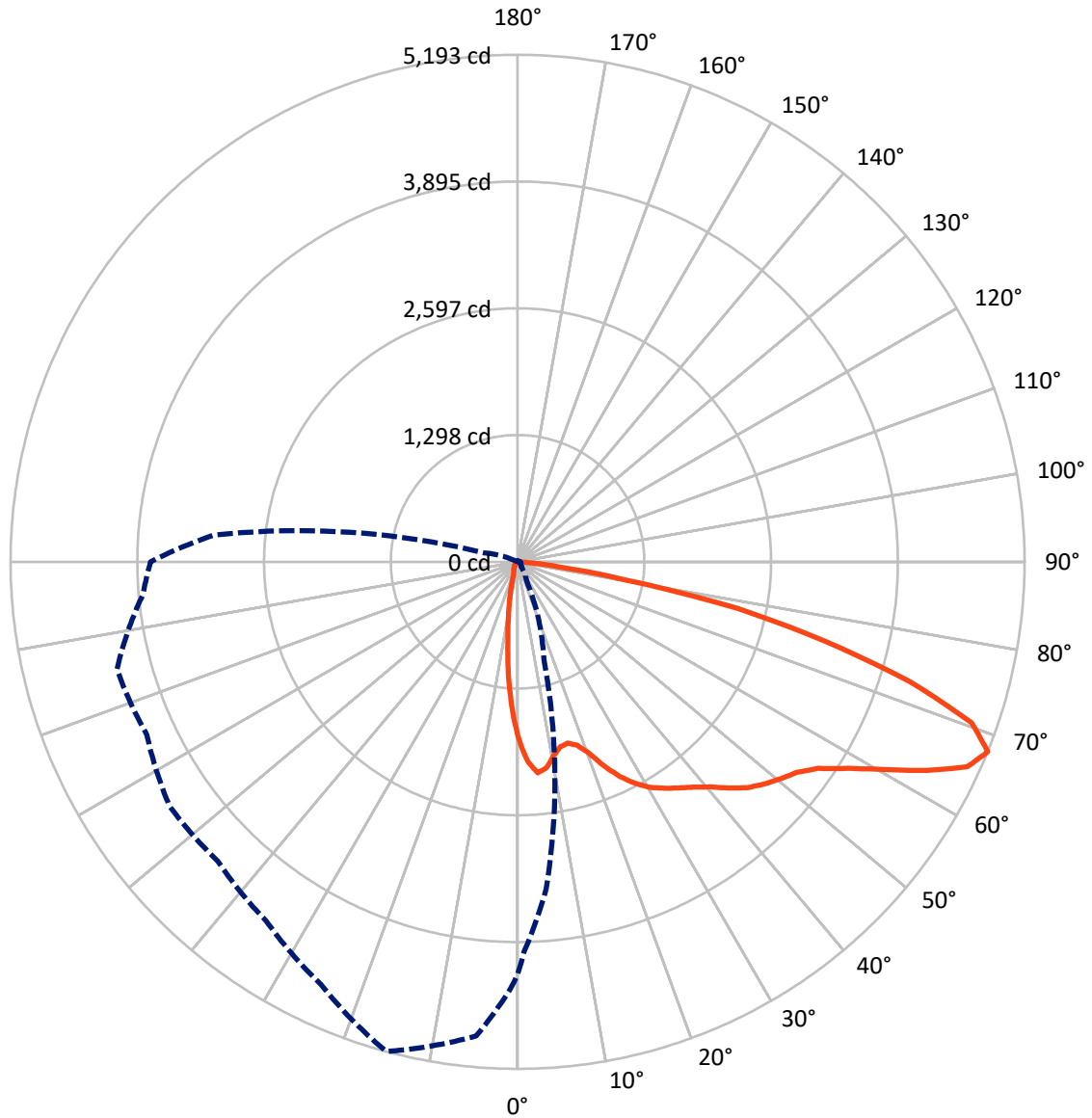
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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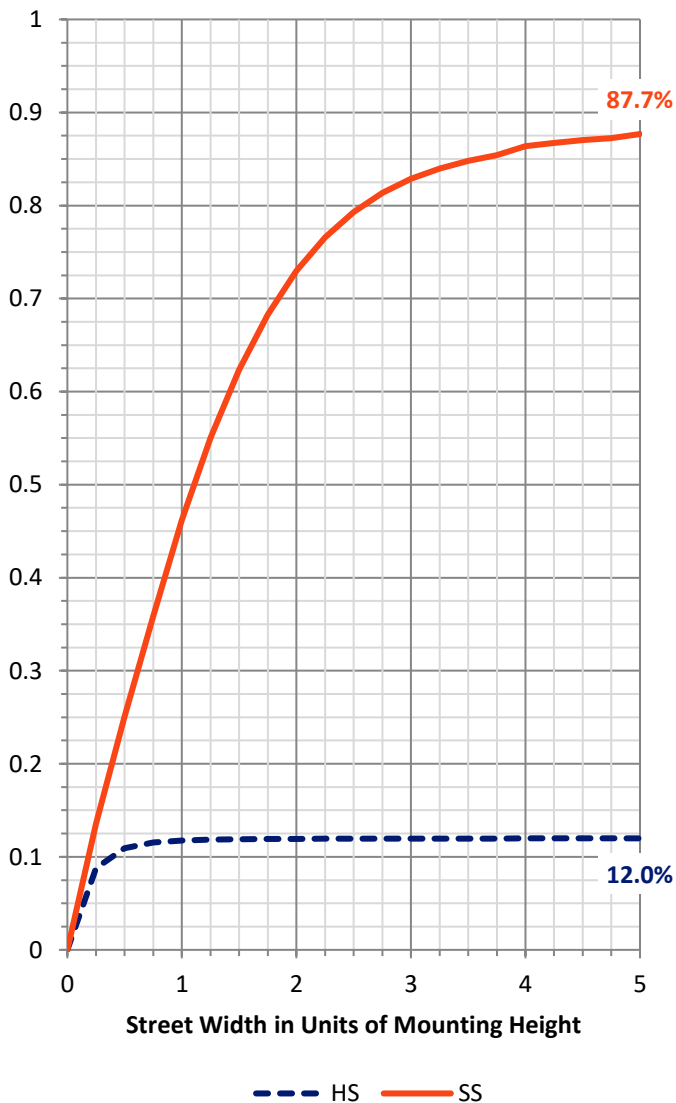
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	679.1	0.0	679.1
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	4931.6	0.0	4931.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	5610.7	0.0	5610.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.3	2.5
10°-20°	279.2	5.0
20°-30°	396.5	7.1
30°-40°	585.6	10.4
40°-50°	844.6	15.1
50°-60°	1185.6	21.1
60°-70°	1382.1	24.6
70°-80°	706.6	12.6
80°-90°	90.2	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°	5610.7	100.0
0°-180°	5610.7	100.0

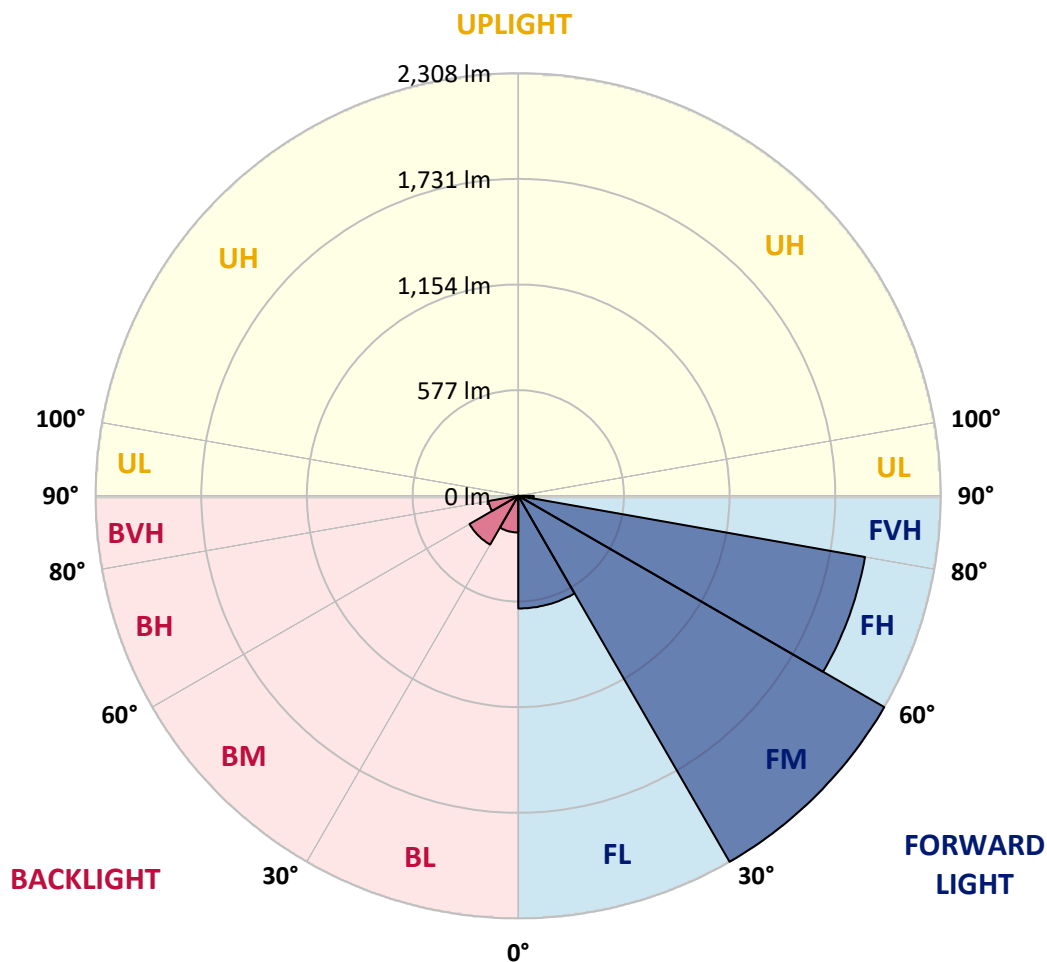


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	615.4	11.0			
FM (30°-60°)	2308.3	41.1			
FH (60°-80°)	1923.2	34.3			G2/5000
FVH (80°-90°)	84.8	1.5			G1/100
BL (0°-30°)	200.6	3.6	B1/500		
BM (30°-60°)	307.5	5.5	B1/1000		
BH (60°-80°)	165.5	2.9	B1/500		G1/500
BVH (80°-90°)	5.5	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°	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7
2.5°	2001.2	1985.9	1968.8	1913.3	1861.7	1802.7	1754.6	1721.1	1679.1	1624.6	1610.7
5°	1986.9	1970.4	1917.0	1793.4	1685.2	1579.9	1478.4	1418.8	1345.0	1270.0	1251.4
7.5°	1842.6	1825.3	1748.2	1578.9	1433.2	1281.2	1149.3	1067.7	984.3	915.7	879.3
10°	1692.3	1673.5	1586.9	1381.4	1202.0	1064.6	967.8	889.9	811.0	737.6	679.1
12.5°	1588.9	1564.3	1470.2	1237.3	1081.1	987.7	897.4	804.0	697.2	618.5	554.2
15°	1545.6	1517.5	1418.1	1181.8	1038.2	928.8	811.0	696.4	571.2	481.1	422.1
17.5°	1579.2	1542.5	1435.9	1178.0	984.6	835.4	686.6	552.0	416.2	325.1	283.1
20°	1692.9	1644.8	1509.5	1177.0	919.4	724.6	535.8	383.8	274.3	220.6	198.5
22.5°	1872.0	1808.5	1615.3	1185.5	852.2	608.2	387.1	260.7	206.0	178.1	165.1
25°	2088.4	2014.8	1767.6	1215.5	793.1	494.9	281.2	206.0	173.8	153.3	142.4
27.5°	2294.1	2234.3	1960.1	1258.9	747.5	403.5	228.3	174.7	148.6	135.1	126.2
30°	2499.6	2424.4	2157.6	1310.4	692.4	341.6	200.7	159.2	133.2	118.8	113.3
32.5°	2649.0	2586.5	2312.3	1347.7	633.6	301.2	179.4	145.7	124.4	109.7	101.5
35°	2824.7	2754.0	2444.8	1355.9	595.9	275.6	161.3	131.1	107.9	94.9	86.1
37.5°	3014.5	2926.5	2598.0	1337.8	566.5	263.2	147.7	124.4	100.7	87.5	78.2
40°	3224.5	3125.1	2745.0	1311.7	537.5	258.9	137.4	119.3	95.2	81.6	72.0
42.5°	3445.6	3328.4	2872.3	1284.4	519.2	244.3	136.4	114.3	90.9	76.3	66.7
45°	3631.5	3512.6	3003.0	1275.3	506.1	228.3	140.8	110.9	87.9	72.0	62.7
47.5°	3779.5	3667.0	3137.1	1295.5	498.7	213.7	128.4	115.3	86.4	68.3	59.2
50°	3956.3	3828.9	3325.7	1355.9	487.8	199.1	116.2	132.1	86.4	66.0	56.4
52.5°	4177.9	4052.0	3536.2	1449.4	466.0	178.9	104.4	132.4	87.2	62.7	52.6
55°	4456.8	4365.3	3836.9	1552.1	431.1	149.1	90.4	113.7	84.0	56.9	49.2
57.5°	4724.2	4649.4	4110.9	1622.2	384.6	116.4	78.7	91.7	76.9	49.9	43.9
59°	4797.3	4715.7	4211.4	1625.4	349.8	101.5	72.8	75.7	75.3	46.8	40.7
60°	4797.3	4710.6	4240.4	1608.4	324.6	93.3	69.1	67.5	78.4	44.6	38.8
62.5°	4710.4	4588.6	4146.3	1493.3	264.7	79.5	60.4	55.8	70.4	40.1	34.3
65°	4529.6	4352.3	3825.8	1285.2	236.1	72.8	52.1	45.7	48.9	35.3	30.0
67.5°	4228.2	3987.9	3363.5	1038.2	224.6	71.0	44.9	38.8	37.0	30.3	26.3
70°	3697.3	3430.8	2802.4	816.3	214.8	70.1	37.7	32.7	29.8	25.5	22.4
72.5°	2691.1	2413.0	1989.6	638.2	208.9	71.7	30.3	27.4	24.5	19.9	17.2
75°	1539.3	1357.2	1118.2	421.5	178.1	68.6	23.4	22.8	17.5	14.3	11.9
77.5°	795.3	771.1	670.1	161.9	85.3	30.0	15.4	13.3	10.3	8.8	7.2
80°	343.2	339.5	293.7	46.8	22.6	16.8	8.8	5.6	4.8	3.7	2.9
82.5°	118.6	118.6	104.4	15.6	10.1	8.2	1.0	0.0	0.0	0.0	0.0
85°	23.9	26.8	18.9	0.0	3.4	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°	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7
2.5°	1594.1	1561.8	1559.8	1539.6	1514.3	1502.9	1496.3	1507.9	1522.2	1523.8	1545.4
5°	1237.3	1203.6	1217.6	1181.8	1188.9	1181.8	1170.1	1172.2	1178.6	1158.7	1183.3
7.5°	868.9	843.4	859.6	850.0	862.8	867.8	860.7	850.0	818.6	814.9	836.5
10°	655.0	626.0	608.7	590.6	594.6	602.8	600.2	592.5	572.5	573.6	594.3
12.5°	526.3	493.9	459.5	415.2	404.3	410.4	404.3	399.7	380.6	382.2	400.6
15°	399.3	372.6	336.8	301.2	281.8	283.7	266.6	254.7	242.7	228.3	239.5
17.5°	269.5	253.3	242.7	232.0	208.9	203.6	182.1	158.9	149.9	143.3	148.0
20°	190.9	182.1	177.8	177.3	164.0	157.3	136.4	122.0	117.5	116.2	119.1
22.5°	159.5	153.1	147.0	143.6	136.8	129.2	113.3	106.0	102.8	101.3	103.4
25°	138.7	134.0	127.6	121.8	119.1	110.9	99.4	94.1	91.9	90.4	91.5
27.5°	123.3	119.1	111.6	107.9	105.8	98.7	88.8	84.5	82.6	82.2	81.9
30°	111.1	107.1	100.2	95.9	92.2	85.9	80.0	75.7	73.9	73.4	72.8
32.5°	98.8	95.7	91.2	86.9	82.9	77.0	72.0	68.6	65.7	65.1	64.8
35°	83.5	80.3	77.9	77.6	73.9	68.3	64.6	60.1	57.7	56.9	57.1
37.5°	74.2	69.9	64.6	66.4	65.4	61.4	56.4	51.8	49.5	48.9	48.9
40°	68.3	63.8	57.7	54.5	57.7	56.9	48.9	44.4	42.0	41.7	41.2
42.5°	62.7	58.2	51.3	46.0	47.6	49.9	42.3	38.0	35.6	35.1	34.3
45°	58.8	53.9	46.2	40.1	37.0	42.0	36.1	30.8	29.5	28.4	27.9
47.5°	55.1	50.5	41.7	34.8	29.5	30.3	29.0	25.2	23.7	22.6	22.4
50°	51.8	47.0	37.7	29.8	24.5	22.4	23.4	19.9	18.6	17.5	17.0
52.5°	48.1	43.6	33.5	25.8	20.5	17.5	17.8	15.6	14.3	13.6	13.3
55°	45.2	40.7	30.0	22.6	18.1	14.3	12.8	12.2	11.5	10.9	10.6
57.5°	41.2	37.0	26.5	19.1	15.4	11.7	9.9	9.9	9.6	9.0	8.8
59°	38.8	35.1	24.5	17.2	14.1	10.1	8.8	9.0	8.8	8.2	8.0
60°	37.0	33.5	22.8	15.9	13.3	9.3	8.0	8.5	8.2	7.7	7.5
62.5°	32.7	30.3	19.7	13.3	11.7	7.5	6.6	7.2	7.2	6.9	6.6
65°	28.7	26.1	16.8	11.2	10.9	6.3	5.3	6.3	6.6	6.1	5.6
67.5°	25.0	22.4	14.6	9.0	10.1	5.0	4.0	5.3	7.2	5.6	5.0
70°	21.2	18.6	11.5	7.2	10.6	3.4	3.2	4.8	8.5	6.1	4.8
72.5°	16.5	14.3	8.0	5.3	11.5	2.4	2.4	4.0	9.6	6.6	4.6
75°	11.5	9.3	4.8	3.2	9.3	1.6	1.6	3.7	9.0	6.1	4.3
77.5°	6.6	5.0	1.6	0.3	4.8	0.0	0.3	2.7	6.3	3.7	1.9
80°	2.4	1.0	0.0	0.0	2.9	0.0	0.0	0.0	0.6	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°	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7
2.5°	1550.9	1586.9	1619.0	1667.7	1725.3	1791.8	1848.9	1910.3	1968.0	1991.9	2008.4
5°	1188.4	1232.8	1284.6	1356.1	1451.3	1568.5	1678.3	1802.5	1935.8	2002.5	2065.3
7.5°	840.3	885.4	949.7	1025.7	1140.9	1280.4	1424.0	1595.4	1776.1	1881.6	1985.6
10°	604.2	659.7	719.8	823.8	940.7	1073.0	1220.9	1412.2	1613.7	1730.6	1855.8
12.5°	411.2	474.4	565.4	681.8	819.2	949.0	1077.3	1259.9	1493.8	1609.7	1744.0
15°	246.7	281.8	378.0	512.7	681.2	842.9	983.4	1166.6	1416.0	1557.9	1697.5
17.5°	152.0	168.2	220.6	331.2	508.3	712.6	905.4	1135.0	1427.1	1599.8	1749.3
20°	121.2	127.6	144.3	195.6	336.8	569.1	817.3	1128.6	1518.2	1730.9	1891.2
22.5°	105.3	111.4	122.5	142.2	211.8	426.1	733.9	1134.4	1649.0	1927.4	2114.5
25°	92.8	98.1	108.7	124.9	155.2	300.1	644.5	1160.5	1819.4	2171.1	2370.0
27.5°	82.9	87.5	97.3	112.2	133.2	209.4	543.3	1192.1	2021.5	2420.4	2616.6
30°	73.9	77.9	86.6	100.5	115.6	161.1	432.2	1213.7	2223.7	2616.6	2792.8
32.5°	66.1	69.1	77.0	88.8	100.5	128.4	328.6	1210.2	2373.9	2779.8	2919.6
35°	58.2	61.1	68.0	78.2	87.5	106.0	258.3	1145.6	2504.7	2949.1	3064.7
37.5°	49.5	53.2	59.8	68.8	75.3	93.3	208.9	1067.7	2637.3	3142.6	3226.6
40°	42.0	45.7	51.6	61.4	65.4	88.5	160.5	972.8	2786.4	3359.0	3404.2
42.5°	34.8	38.3	44.4	52.9	61.7	76.3	118.8	864.4	2929.7	3544.0	3566.1
45°	28.1	31.7	38.0	46.5	66.0	63.3	91.9	748.2	3045.3	3697.9	3705.0
47.5°	22.4	25.5	32.1	43.9	61.4	50.5	65.7	657.1	3142.4	3818.0	3799.1
50°	17.2	19.9	26.8	50.2	53.7	41.7	49.7	626.7	3229.3	3892.5	3843.6
52.5°	13.6	15.9	22.1	47.0	41.7	34.6	41.7	655.3	3348.4	3954.1	3868.5
55°	10.9	13.3	17.2	26.8	28.4	29.3	35.6	681.8	3553.9	4098.7	4016.1
57.5°	9.0	11.5	14.1	18.9	21.5	24.7	31.7	684.7	3796.0	4339.1	4260.9
59°	8.2	10.3	12.8	16.8	18.9	22.6	29.8	668.8	3881.3	4426.4	4387.4
60°	7.7	9.9	11.9	15.4	17.5	21.2	28.7	653.6	3885.0	4423.3	4441.3
62.5°	6.6	8.8	10.6	13.0	14.9	18.1	25.8	597.5	3727.7	4278.4	4408.9
65°	5.9	7.7	9.6	11.2	12.8	16.2	23.4	495.2	3458.9	4044.8	4186.9
67.5°	5.3	6.6	8.8	9.9	11.5	14.3	20.8	353.0	3123.2	3759.0	3851.3
70°	4.8	6.3	8.0	9.0	10.3	12.5	17.8	202.8	2637.3	3340.6	3406.3
72.5°	4.6	6.1	7.2	8.5	9.3	11.2	16.2	95.4	1931.1	2676.1	2847.6
75°	4.0	5.6	6.6	8.0	8.8	10.1	13.8	45.7	1284.4	1936.7	2131.5
77.5°	2.4	4.6	6.1	7.2	7.7	8.8	11.5	26.3	819.8	1340.5	1578.9
80°	0.0	1.6	4.6	6.1	6.6	7.5	8.8	20.8	438.6	765.8	919.2
82.5°	0.0	0.0	3.2	4.8	4.6	5.0	6.6	13.0	197.8	500.5	564.1
85°	0.0	0.0	1.0	3.7	3.2	2.4	4.6	4.6	43.3	253.3	316.1
87.5°	0.0	0.0	0.0	0.3	1.6	1.0	1.9	0.6	0.3	18.9	76.6
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°	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7
2.5°	2066.1	2085.7	2119.0	2134.6	2127.0	2094.3	2055.2	2015.3	1991.9	2001.2
5°	2193.1	2294.4	2352.9	2372.3	2339.9	2266.5	2170.6	2044.0	1999.1	1986.9
7.5°	2193.1	2383.7	2504.5	2525.7	2453.4	2309.6	2129.6	1932.1	1866.4	1842.6
10°	2116.1	2375.5	2543.8	2577.5	2476.5	2261.5	2020.4	1795.0	1717.1	1692.3
12.5°	2029.2	2308.6	2485.8	2532.3	2449.4	2213.6	1944.6	1702.2	1610.6	1588.9
15°	1975.7	2226.1	2372.8	2406.6	2371.5	2185.7	1926.5	1674.3	1566.4	1545.6
17.5°	1994.9	2162.3	2215.2	2234.9	2258.5	2175.9	1975.7	1735.5	1598.8	1579.2
20°	2066.9	2095.1	2067.7	2092.4	2156.3	2185.4	2092.9	1883.2	1719.3	1692.9
22.5°	2189.1	2060.3	1983.5	1993.2	2070.9	2217.1	2272.1	2094.3	1905.0	1872.0
25°	2331.7	2088.4	1936.7	1927.9	2007.7	2258.8	2435.8	2323.9	2124.9	2088.4
27.5°	2510.8	2151.7	1927.1	1918.3	1985.6	2297.8	2571.9	2550.9	2356.3	2294.1
30°	2649.0	2213.9	1955.5	1935.3	2007.7	2325.0	2681.2	2743.7	2540.8	2499.6
32.5°	2748.2	2287.2	2001.8	1972.6	2069.8	2371.8	2765.5	2920.1	2711.5	2649.0
35°	2823.6	2367.0	2076.5	2028.4	2155.4	2442.8	2844.4	3108.1	2893.0	2824.7
37.5°	2894.3	2478.9	2193.1	2135.8	2289.7	2557.0	2927.9	3321.2	3096.1	3014.5
40°	2993.0	2605.7	2373.1	2322.1	2515.3	2712.9	3032.0	3543.4	3327.1	3224.5
42.5°	3091.6	2741.8	2557.3	2571.2	2796.8	2902.1	3166.5	3778.5	3555.2	3445.6
45°	3181.7	2882.1	2819.7	2883.4	3058.1	3109.7	3300.3	3914.3	3737.2	3631.5
47.5°	3262.0	3057.5	3080.4	3250.3	3355.2	3297.6	3400.1	4031.5	3872.8	3779.5
50°	3355.2	3284.5	3424.1	3664.4	3697.3	3467.7	3491.1	4170.3	4031.2	3956.3
52.5°	3457.3	3523.8	3804.7	4016.6	4005.9	3652.4	3582.5	4325.7	4248.4	4177.9
55°	3573.2	3717.1	4139.9	4346.2	4337.2	3858.7	3734.0	4517.9	4520.5	4456.8
57.5°	3745.2	3883.4	4367.5	4612.7	4627.9	4096.9	3990.8	4733.2	4766.7	4724.2
59°	3868.5	3991.3	4457.5	4724.2	4785.8	4281.0	4178.5	4858.1	4836.0	4797.3
60°	3960.0	4059.9	4502.2	4782.4	4877.5	4406.0	4317.0	4931.5	4844.3	4797.3
62.5°	4186.2	4209.3	4582.7	4848.3	4983.0	4683.4	4706.6	5056.4	4787.1	4710.4
65°	4291.7	4303.7	4581.7	4730.3	4881.0	4899.6	5060.2	5060.2	4647.6	4529.6
67.5°	4247.6	4189.9	4354.4	4339.1	4489.5	4771.2	5193.0	4874.6	4380.7	4228.2
70°	3888.7	3666.8	3593.7	3600.3	3715.4	4150.0	4929.9	4328.6	3875.7	3697.3
72.5°	3235.6	2703.3	2522.7	2728.8	2758.8	3189.4	4201.3	3259.9	2858.2	2691.1
75°	2602.5	1905.6	1612.1	1829.6	1880.6	2334.0	3250.0	2030.2	1669.5	1539.3
77.5°	1869.7	1367.8	1156.8	1141.6	1207.6	1480.2	2306.1	1021.7	852.2	795.3
80°	1062.2	900.2	969.4	914.6	947.8	925.5	1095.7	448.2	367.1	343.2
82.5°	641.1	532.1	576.3	479.7	607.1	528.7	422.1	143.6	124.6	118.6
85°	417.1	290.8	151.5	101.5	209.2	337.9	94.4	39.0	30.0	23.9
87.5°	143.8	74.2	7.5	3.2	22.4	63.0	3.4	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

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