

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: P458585

Luminaire Tested: **GALN-SA1C-735-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA 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: 4759 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): 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

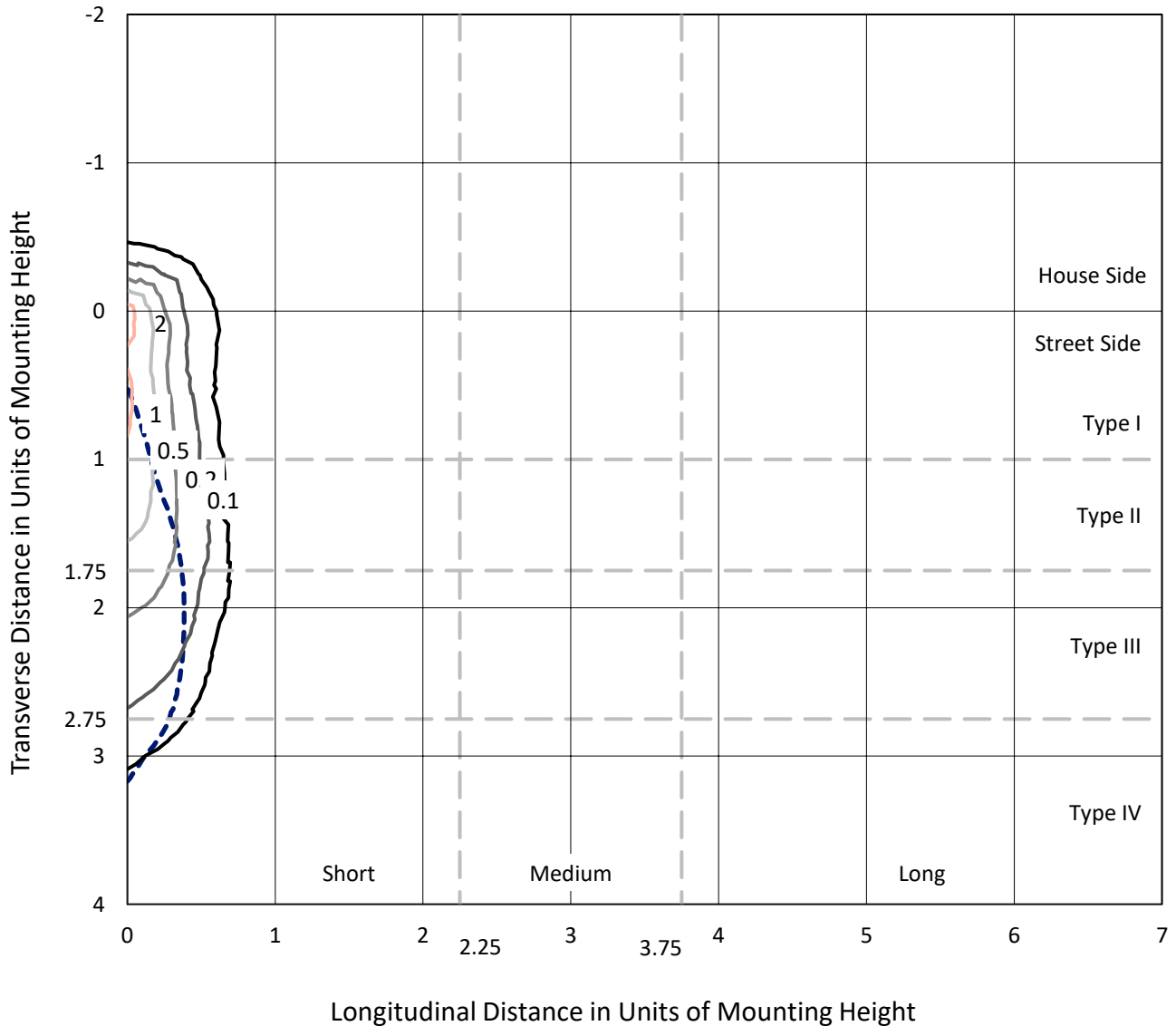




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Iso-Footcandle Lines of Horizontal Illumination

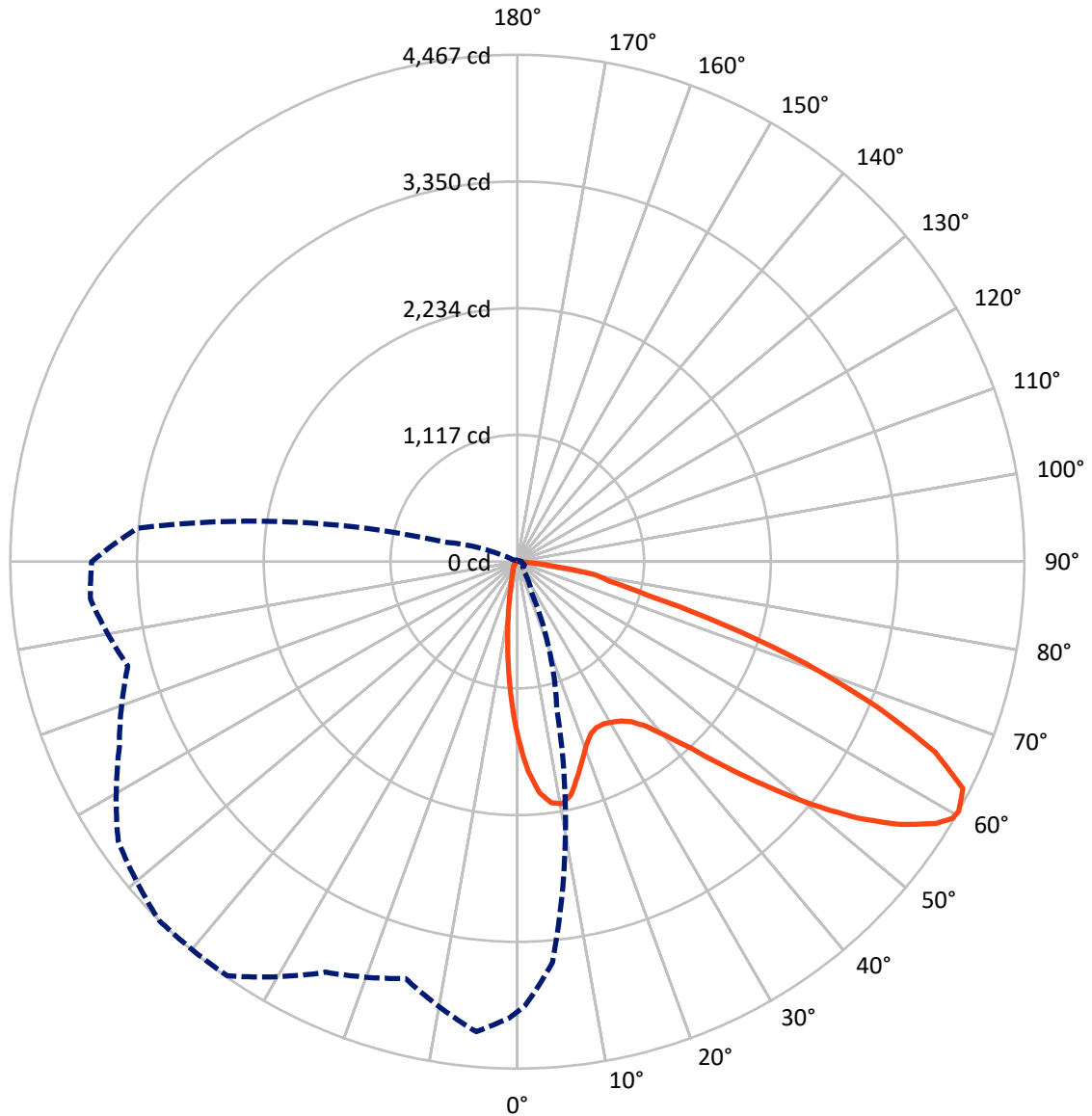
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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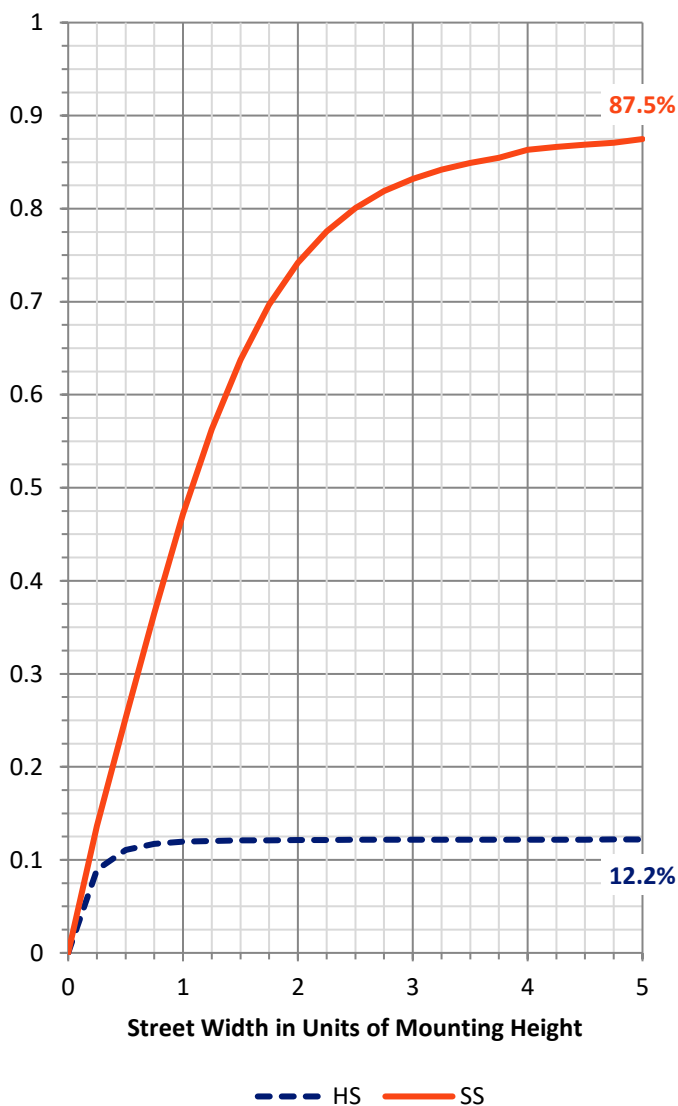
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	587.0	0.0	587.0
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	4172.0	0.0	4172.0
	% Fixture	87.7	0.0	87.7
Total	Lumens	4759.0	0.0	4759.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	2.5
10°-20°	232.3	4.9
20°-30°	340.7	7.2
30°-40°	506.6	10.6
40°-50°	737.3	15.5
50°-60°	1063.3	22.3
60°-70°	1169.5	24.6
70°-80°	523.8	11.0
80°-90°	68.4	1.4
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°	4759.0	100.0
0°-180°	4759.0	100.0

Coefficient of Utilization



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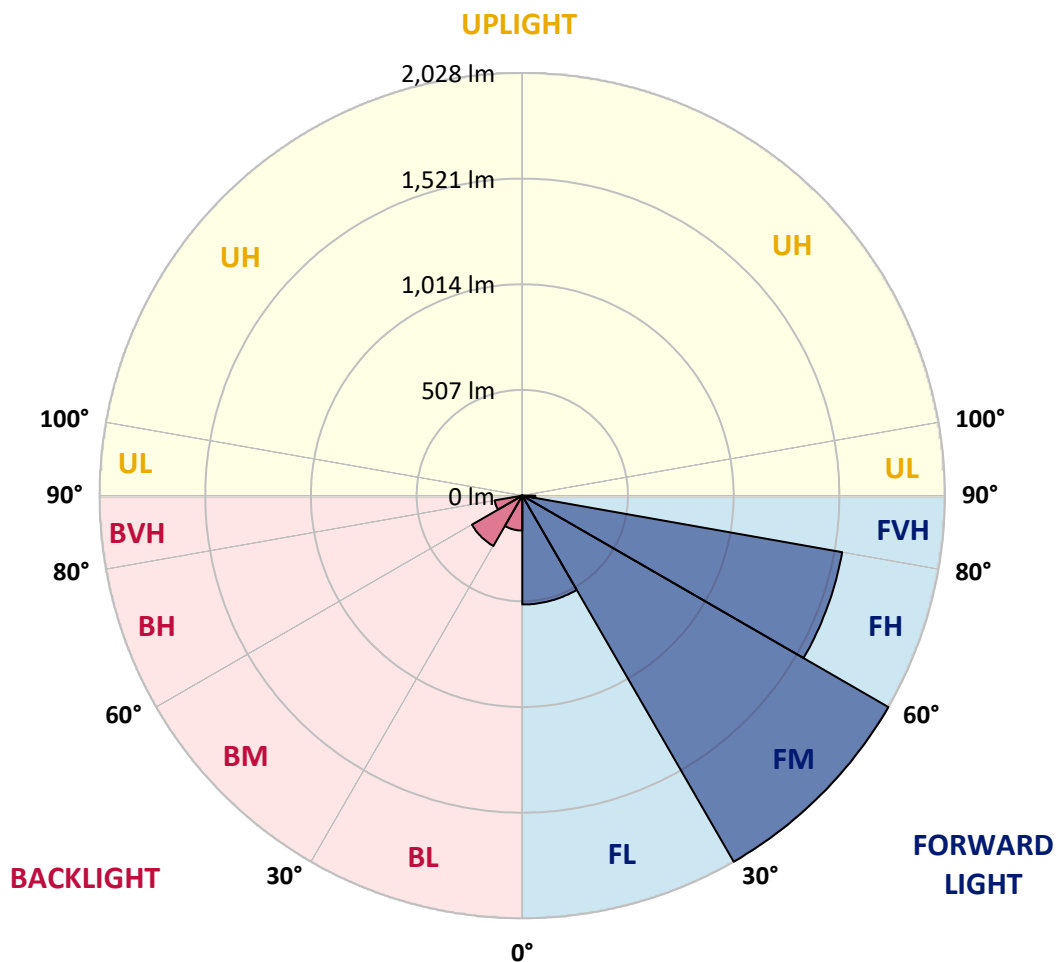
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	522.3	11.0			
FM	(30°-60°)	2028.4	42.6			
FH	(60°-80°)	1558.7	32.8			G1/1800
FVH	(80°-90°)	62.6	1.3			G1/100
BL	(0°-30°)	167.7	3.5	B1/500		
BM	(30°-60°)	278.8	5.9	B1/1000		
BH	(60°-80°)	134.6	2.8	B1/500		G1/500
BVH	(80°-90°)	5.8	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9
2.5°	1729.2	1721.6	1704.2	1651.4	1605.5	1545.4	1484.6	1436.9	1407.6	1353.7	1329.1
5°	1675.3	1678.9	1628.6	1520.1	1399.3	1316.8	1226.7	1155.1	1076.2	1026.3	973.8
7.5°	1534.6	1527.3	1472.7	1321.5	1174.6	1055.2	941.3	848.7	790.4	743.8	704.7
10°	1414.1	1408.7	1338.9	1144.2	986.5	897.2	820.1	739.1	676.5	608.1	553.5
12.5°	1338.5	1326.2	1245.9	1042.6	914.2	831.0	747.0	662.7	576.3	507.2	441.0
15°	1313.2	1295.5	1206.1	1007.5	867.9	762.2	656.9	560.0	460.5	384.2	334.3
17.5°	1359.1	1329.8	1234.7	1001.3	812.5	672.5	543.0	416.7	313.3	255.0	224.3
20°	1464.4	1430.7	1307.0	995.2	751.0	571.9	412.8	294.5	216.7	184.9	167.9
22.5°	1620.7	1574.4	1414.1	1005.0	694.2	473.9	298.1	208.0	172.2	152.3	140.4
25°	1808.4	1769.7	1549.8	1039.7	649.4	396.8	230.4	170.0	145.1	132.8	123.7
27.5°	2014.3	1952.4	1725.2	1081.3	608.5	337.2	202.2	151.9	129.1	117.9	113.2
30°	2160.8	2112.7	1872.1	1110.2	557.5	292.3	184.9	149.8	129.5	116.1	107.4
32.5°	2305.5	2244.0	1995.1	1123.6	520.2	261.2	159.9	130.6	113.6	106.7	98.0
35°	2460.3	2395.9	2117.7	1116.4	492.4	240.6	145.1	116.5	97.3	85.7	77.1
37.5°	2616.9	2548.9	2239.6	1090.3	475.0	232.2	133.5	110.7	91.9	79.9	70.5
40°	2802.9	2712.1	2353.9	1069.0	456.9	227.9	125.9	107.1	87.9	75.2	65.8
42.5°	2954.8	2868.4	2462.1	1057.8	444.6	217.8	125.9	104.2	85.4	71.3	61.5
45°	3098.8	3009.1	2579.0	1066.8	439.5	205.1	127.3	103.8	83.6	68.4	58.6
47.5°	3219.3	3141.5	2699.1	1100.8	433.0	191.4	119.7	108.9	82.5	65.8	55.7
50°	3361.4	3286.2	2857.9	1169.6	421.4	177.6	110.3	117.2	82.1	63.7	53.2
52.5°	3561.9	3480.5	3077.1	1247.7	403.0	156.6	101.7	116.1	80.7	60.1	50.6
55°	3806.8	3740.9	3331.1	1341.4	377.7	133.1	87.9	103.1	76.3	53.9	46.3
57.5°	3963.8	3907.7	3521.3	1381.9	339.0	108.9	77.4	86.5	69.8	48.1	41.2
59°	3982.2	3931.6	3561.1	1368.5	313.6	99.5	72.4	74.2	68.0	44.9	38.3
60°	3966.7	3914.2	3545.2	1342.5	290.1	93.0	68.0	65.8	68.4	43.0	36.2
62.5°	3866.8	3777.1	3390.7	1210.4	253.6	85.4	60.4	53.9	60.4	38.7	32.2
65°	3674.0	3539.4	3085.1	1024.5	239.1	81.0	51.4	45.2	45.9	34.0	27.9
67.5°	3337.2	3167.5	2678.1	832.4	233.0	81.4	43.4	40.5	35.5	28.9	24.6
70°	2804.7	2635.4	2148.8	684.8	230.1	81.4	36.9	34.7	29.7	24.2	21.3
72.5°	1987.5	1805.2	1449.6	537.9	207.3	81.0	31.5	31.5	24.2	20.3	17.4
75°	1122.9	1124.3	911.3	380.6	172.2	66.9	25.3	25.0	17.7	15.6	13.0
77.5°	654.4	642.8	614.3	163.5	79.9	30.4	17.7	15.2	12.3	11.2	9.4
80°	336.4	276.7	269.5	59.3	28.6	19.2	12.3	8.7	8.0	7.2	6.5
82.5°	99.5	99.8	89.0	23.9	15.9	12.7	6.1	4.7	4.3	4.0	4.0
85°	6.9	4.3	5.1	7.2	9.8	5.1	0.4	1.1	1.1	1.4	1.8
87.5°	0.7	0.4	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°	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9
2.5°	1302.0	1317.9	1288.2	1288.9	1264.3	1272.3	1243.4	1252.8	1235.8	1248.8	1287.1
5°	979.6	983.3	959.4	951.8	955.4	970.2	976.0	949.6	960.8	938.8	937.3
7.5°	690.2	694.6	680.8	679.0	705.1	698.9	710.1	683.0	657.3	668.5	647.9
10°	536.1	518.0	489.8	481.9	476.8	480.1	480.1	455.5	451.8	442.1	456.9
12.5°	423.3	401.2	374.4	338.2	329.2	328.5	315.1	293.4	286.5	278.2	290.5
15°	307.5	298.4	276.0	255.8	235.1	231.2	209.5	191.7	168.2	165.0	163.9
17.5°	216.3	202.9	202.6	191.0	179.1	171.1	150.9	130.6	121.6	120.5	120.5
20°	162.1	157.4	149.8	148.3	144.7	135.7	117.6	106.7	102.4	102.7	104.2
22.5°	136.4	133.1	126.3	123.0	121.6	113.6	100.2	93.0	90.8	90.8	91.2
25°	121.9	119.0	111.4	106.4	104.5	98.8	88.3	82.8	81.0	81.0	81.0
27.5°	111.1	107.4	99.5	95.1	91.9	85.4	78.9	73.4	71.6	71.6	72.0
30°	103.5	99.5	92.2	86.5	81.4	75.6	70.2	65.5	63.3	62.9	63.3
32.5°	93.3	89.7	82.5	78.9	73.1	66.2	61.9	57.5	55.3	55.7	55.3
35°	72.7	71.6	66.6	67.6	64.4	58.6	54.6	49.9	47.4	47.0	47.8
37.5°	66.2	61.9	56.1	56.4	55.3	53.2	46.7	41.6	39.8	39.8	40.2
40°	61.1	56.8	50.3	47.0	47.4	47.4	40.5	35.1	33.3	32.9	33.6
42.5°	56.8	52.5	45.2	39.8	38.3	40.2	34.4	28.9	27.1	26.4	27.1
45°	53.9	49.2	40.9	34.7	30.4	32.6	28.2	23.9	21.7	21.7	21.3
47.5°	51.0	46.7	37.6	30.0	25.3	24.2	23.2	19.2	17.0	16.6	17.0
50°	48.5	44.1	34.0	26.0	21.3	18.8	18.8	15.2	13.7	13.0	13.4
52.5°	45.9	41.2	30.7	23.2	18.4	15.2	13.4	12.3	11.2	10.9	11.2
55°	42.3	37.6	27.5	19.9	15.9	12.7	10.5	10.1	9.4	8.7	9.4
57.5°	38.0	33.6	24.2	17.0	12.7	9.8	8.7	8.3	7.6	7.2	7.2
59°	35.5	31.5	22.4	14.8	11.2	8.7	8.0	7.6	6.9	6.1	6.5
60°	34.0	30.7	21.3	13.7	10.1	8.0	7.2	6.9	6.1	5.8	6.1
62.5°	30.0	27.5	18.8	11.2	8.0	5.8	5.1	5.4	5.1	4.7	5.1
65°	26.4	24.2	15.9	8.7	6.1	4.0	3.6	4.7	4.3	4.0	4.3
67.5°	23.5	21.0	13.4	6.5	4.3	2.2	2.5	4.0	4.0	3.6	4.0
70°	20.3	18.1	10.9	4.7	2.2	1.1	1.8	2.9	3.6	3.3	3.6
72.5°	16.6	14.1	8.3	3.3	1.1	0.0	1.1	2.5	3.6	3.3	3.6
75°	13.0	10.5	6.1	1.8	0.0	0.0	0.4	2.2	3.6	3.3	3.6
77.5°	9.4	7.6	3.6	0.4	0.0	0.0	0.4	2.2	3.6	3.3	3.6
80°	6.1	5.4	1.4	0.0	0.0	0.0	0.4	2.2	3.6	3.6	4.0
82.5°	4.0	2.9	0.0	0.0	0.0	0.0	0.7	2.9	4.0	4.3	4.3
85°	1.8	0.0	0.0	0.0	0.0	0.0	1.4	3.6	4.7	4.7	4.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.7	2.5	4.3	5.4	5.4	5.4
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°	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9
2.5°	1293.6	1316.4	1348.6	1398.2	1438.3	1501.7	1550.1	1616.3	1683.3	1703.5	1735.0
5°	952.1	981.4	1054.5	1121.1	1163.0	1296.9	1381.5	1515.0	1634.8	1692.3	1754.9
7.5°	661.3	696.0	751.7	844.7	933.0	1041.9	1178.6	1331.3	1506.7	1588.8	1677.1
10°	464.1	507.5	586.0	662.4	773.4	876.9	1011.8	1180.4	1374.0	1470.9	1581.6
12.5°	293.0	331.7	435.6	521.3	659.8	779.9	904.4	1057.1	1281.3	1380.8	1496.9
15°	167.5	200.1	248.5	358.5	512.2	671.1	826.3	1003.5	1234.0	1356.6	1482.1
17.5°	124.8	133.5	155.2	217.4	357.4	543.0	754.3	987.2	1266.1	1410.1	1553.4
20°	104.9	110.7	120.8	145.4	227.9	418.2	684.1	990.1	1370.3	1551.2	1687.2
22.5°	94.1	97.7	106.0	121.9	155.6	304.6	602.0	1007.1	1496.6	1724.5	1881.5
25°	82.5	87.2	94.4	108.2	129.5	211.3	520.9	1045.1	1673.5	1944.4	2092.0
27.5°	73.4	77.8	85.0	97.7	113.6	161.3	426.5	1077.7	1860.2	2165.8	2286.7
30°	64.4	68.7	76.0	86.1	100.6	130.6	324.9	1096.8	2041.4	2331.9	2424.9
32.5°	56.8	60.4	67.3	76.3	88.3	110.7	256.1	1076.9	2179.9	2482.7	2545.0
35°	49.2	53.5	59.3	67.6	78.1	94.4	213.1	1008.2	2299.0	2637.9	2660.4
37.5°	41.2	46.3	52.5	60.1	68.4	86.8	171.1	932.2	2426.3	2831.5	2794.6
40°	34.7	39.4	45.2	53.5	61.1	79.6	131.7	851.2	2563.8	3013.1	2941.1
42.5°	28.2	33.3	40.2	47.8	60.4	69.5	102.0	767.3	2687.1	3171.2	3073.5
45°	22.4	26.8	34.0	43.8	60.1	59.7	78.9	684.4	2780.1	3284.0	3172.2
47.5°	17.7	21.3	28.6	42.7	55.3	50.6	63.3	633.1	2877.8	3385.7	3247.9
50°	14.1	17.7	24.6	44.5	48.5	43.4	53.2	641.4	2972.2	3437.4	3279.0
52.5°	11.9	15.6	21.3	35.1	37.3	38.0	46.7	679.7	3094.1	3492.8	3340.8
55°	10.5	13.7	18.1	24.6	28.9	34.0	42.7	707.6	3257.3	3611.4	3477.2
57.5°	8.3	11.9	16.3	21.0	23.9	29.7	39.4	709.8	3404.9	3763.7	3658.4
59°	7.6	10.9	15.2	19.9	21.3	26.8	37.3	691.3	3410.3	3786.5	3741.6
60°	6.9	10.5	14.5	18.4	20.3	25.3	35.5	670.0	3361.1	3750.3	3776.0
62.5°	5.8	9.0	12.7	14.8	17.4	21.0	30.7	592.6	3122.7	3586.5	3712.3
65°	5.1	8.0	10.9	12.3	14.5	18.1	27.1	474.3	2859.3	3364.3	3530.0
67.5°	4.7	7.2	9.4	10.5	12.7	16.6	24.2	335.0	2518.2	3082.5	3256.2
70°	4.3	6.9	8.3	9.8	11.2	14.1	20.6	195.3	1939.7	2588.4	2771.8
72.5°	4.3	6.5	7.2	8.3	9.8	12.7	19.2	105.6	1326.2	1974.5	2211.4
75°	4.3	6.1	6.5	7.2	8.7	11.6	17.0	55.3	857.4	1371.8	1693.0
77.5°	4.3	5.8	6.5	6.9	8.3	10.1	14.8	34.7	571.2	960.8	1144.2
80°	4.7	5.8	6.1	6.9	8.0	9.4	12.3	23.2	335.7	578.1	696.4
82.5°	5.1	5.8	6.5	7.2	8.3	9.0	10.9	14.5	154.8	382.4	432.7
85°	5.4	6.1	6.9	7.6	8.7	9.0	10.1	10.5	25.3	172.6	233.3
87.5°	5.8	6.5	7.2	8.0	9.4	9.4	9.4	9.4	8.7	18.4	47.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9
2.5°	1774.8	1815.7	1844.2	1851.5	1830.8	1821.4	1795.4	1754.9	1730.3	1729.2
5°	1870.3	1966.1	2032.7	2043.9	2004.1	1936.8	1856.9	1753.8	1693.4	1675.3
7.5°	1854.0	2021.9	2128.9	2144.5	2077.6	1949.1	1794.3	1628.3	1562.4	1534.6
10°	1787.1	1991.8	2144.9	2169.5	2080.1	1899.2	1702.4	1517.2	1435.5	1414.1
12.5°	1729.9	1936.8	2072.9	2106.9	2039.2	1858.7	1647.4	1445.9	1358.4	1338.5
15°	1705.0	1871.7	1954.9	1972.3	1961.1	1833.4	1641.7	1435.1	1334.9	1313.2
17.5°	1729.9	1816.4	1826.9	1844.6	1869.6	1830.8	1697.4	1494.1	1385.9	1359.1
20°	1795.4	1768.3	1724.9	1732.5	1789.6	1841.3	1796.5	1624.6	1493.0	1464.4
22.5°	1906.8	1756.3	1657.9	1651.4	1723.8	1876.4	1941.9	1801.5	1648.9	1620.7
25°	2043.6	1786.4	1633.3	1619.2	1698.1	1927.8	2100.0	2018.2	1851.5	1808.4
27.5°	2192.6	1848.6	1633.3	1619.6	1695.9	1973.4	2235.3	2210.0	2061.3	2014.3
30°	2274.4	1899.9	1656.8	1641.3	1722.7	1999.8	2307.6	2380.4	2219.0	2160.8
32.5°	2347.4	1971.2	1702.8	1673.5	1778.8	2038.9	2372.4	2525.1	2344.5	2305.5
35°	2414.7	2047.5	1766.1	1732.1	1852.6	2092.4	2444.0	2677.0	2519.3	2460.3
37.5°	2488.9	2136.2	1864.9	1835.9	1975.9	2196.6	2529.0	2876.7	2691.1	2616.9
40°	2569.6	2238.9	2027.3	2015.0	2172.0	2314.5	2636.5	3089.8	2887.2	2802.9
42.5°	2651.7	2357.2	2226.2	2246.5	2394.1	2479.8	2746.8	3253.6	3047.8	2954.8
45°	2726.2	2508.4	2484.9	2585.1	2653.1	2641.2	2828.6	3369.0	3187.8	3098.8
47.5°	2820.3	2728.7	2797.8	2952.3	2954.1	2816.6	2890.4	3463.5	3308.3	3219.3
50°	2925.5	2988.8	3201.9	3359.3	3316.9	2989.2	2962.8	3575.2	3432.7	3361.4
52.5°	3047.4	3280.0	3575.2	3750.0	3651.2	3177.3	3083.3	3696.1	3630.2	3561.9
55°	3189.2	3478.7	3947.5	4086.8	3987.3	3411.0	3266.3	3859.9	3853.4	3806.8
57.5°	3349.5	3688.5	4163.1	4351.6	4262.9	3685.2	3522.1	4014.4	3989.8	3963.8
59°	3476.1	3796.3	4258.2	4453.6	4400.0	3877.3	3693.9	4110.6	4021.3	3982.2
60°	3552.8	3869.3	4293.3	4467.3	4455.0	3991.6	3802.8	4157.7	4020.9	3966.7
62.5°	3780.4	3997.0	4279.9	4406.2	4454.3	4210.8	4122.2	4209.4	3946.4	3866.8
65°	3861.4	3954.7	4058.2	4042.6	4083.9	4199.6	4326.2	4152.6	3787.2	3674.0
67.5°	3703.7	3490.6	3527.1	3423.3	3403.0	3733.7	4243.4	3874.8	3475.8	3337.2
70°	3122.0	2674.1	2655.7	2703.4	2572.5	3022.8	3810.4	3339.7	2961.7	2804.7
72.5°	2457.4	1889.8	1734.3	1910.1	1906.1	2306.2	3165.4	2369.9	2000.9	1987.5
75°	1932.5	1315.7	1154.7	1183.3	1238.3	1669.5	2521.1	1504.9	1232.1	1122.9
77.5°	1297.3	932.2	869.7	834.6	893.9	1071.9	1595.0	816.1	691.0	654.4
80°	747.8	677.2	769.1	698.2	730.0	675.4	793.3	374.4	310.7	336.4
82.5°	486.6	385.6	411.0	305.3	417.5	421.1	254.7	110.7	93.7	99.5
85°	304.2	180.9	101.7	72.4	144.0	264.8	79.6	6.9	8.0	6.9
87.5°	78.9	30.0	12.7	18.8	23.2	20.6	18.4	1.1	0.4	0.7
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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