

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: P647228

Luminaire Tested: **GALN-SA1D-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647228
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-SA1D-835-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS 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: 3388.1 lumens
Efficiency: N/A
Efficacy: 52.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

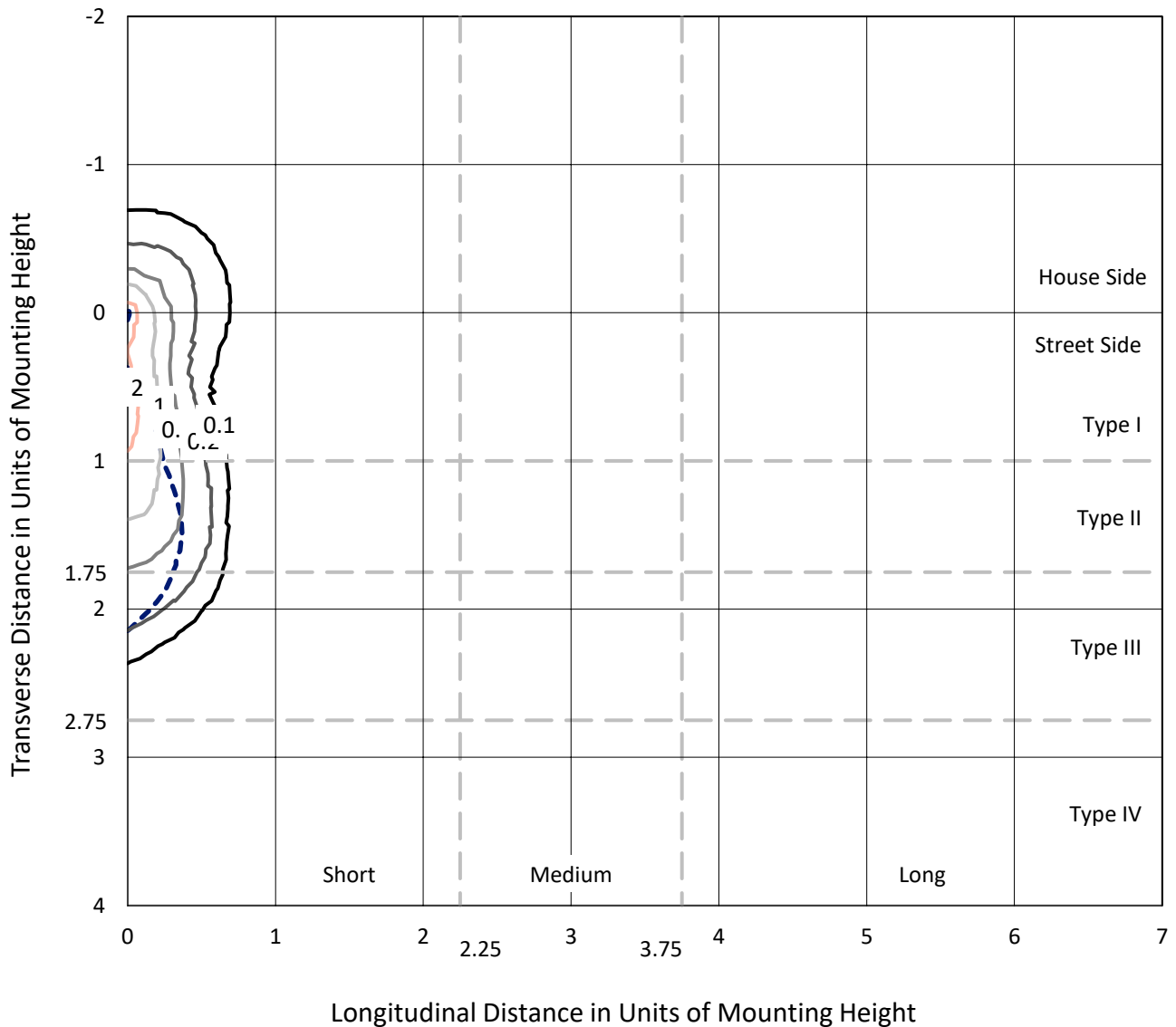
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

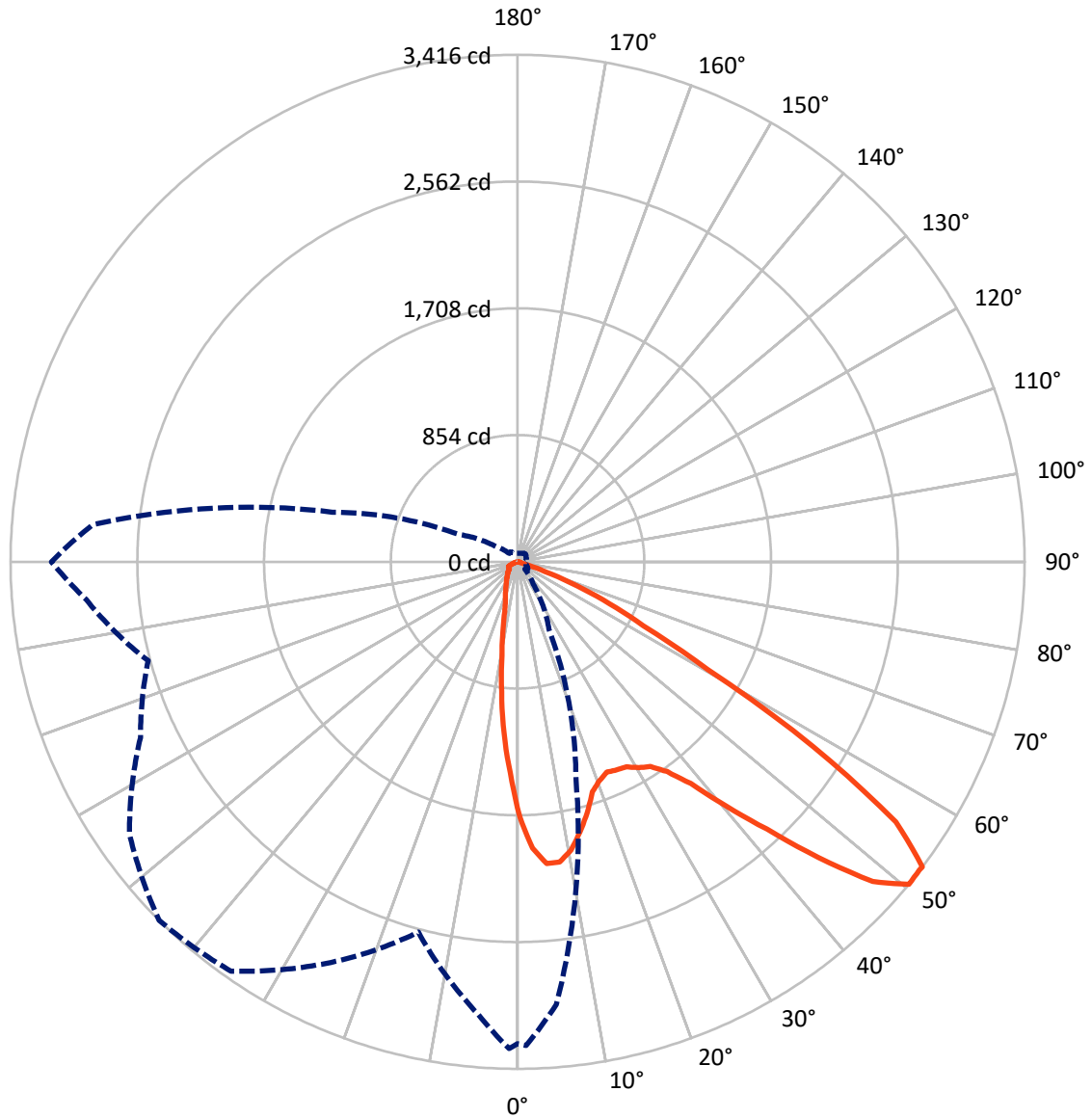
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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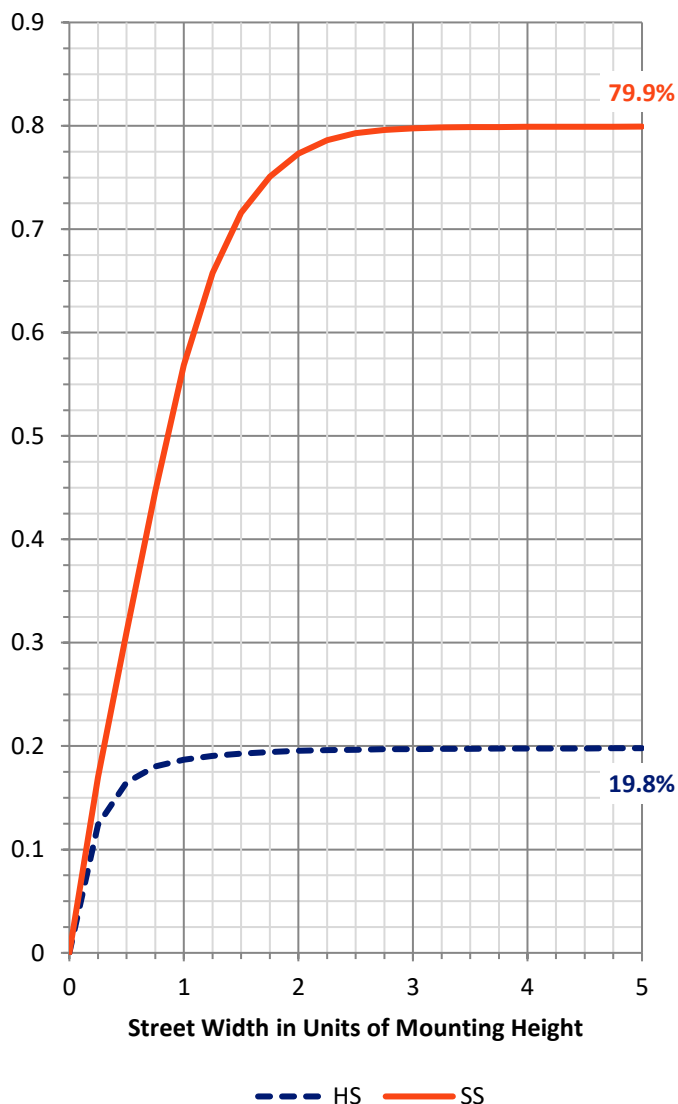
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	678.6	0.0	678.6
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	2709.4	0.0	2709.4
	% Fixture	80.0	0.0	80.0
Total	Lumens	3388.1	0.0	3388.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	3.7
10°-20°	248.9	7.3
20°-30°	373.9	11.0
30°-40°	561.2	16.6
40°-50°	788.8	23.3
50°-60°	850.9	25.1
60°-70°	395.1	11.7
70°-80°	37.2	1.1
80°-90°	6.9	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°	3388.1	100.0
0°-180°	3388.1	100.0

Coefficient of Utilization

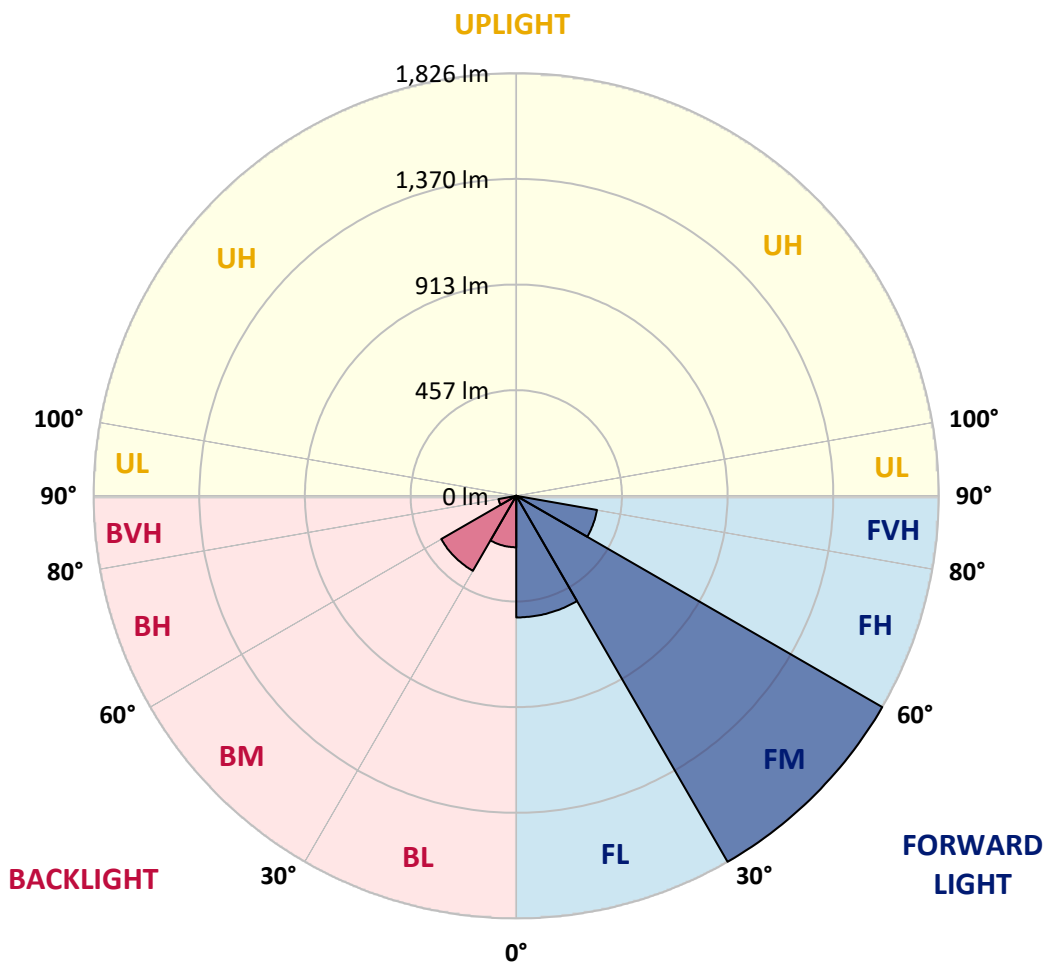


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	525.6	15.5			
FM (30°-60°)	1826.4	53.9			
FH (60°-80°)	354.3	10.5			G0/660
FVH (80°-90°)	3.1	0.1			G0/10
BL (0°-30°)	222.4	6.6	B1/500		
BM (30°-60°)	374.5	11.1	B1/1000		
BH (60°-80°)	77.9	2.3	B0/110		G0/110
BVH (80°-90°)	3.8	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°	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1
2.5°	1786.0	1758.5	1723.5	1694.6	1651.6	1564.9	1541.3	1513.1	1489.6	1458.0	1413.6
5°	1624.0	1615.3	1599.2	1490.3	1411.7	1306.7	1220.7	1184.4	1136.7	1097.7	1069.5
7.5°	1500.4	1465.4	1414.3	1304.8	1179.0	1066.8	971.3	915.6	852.4	830.8	792.6
10°	1368.0	1376.0	1300.7	1146.8	994.9	904.1	844.9	791.2	734.1	696.4	642.0
12.5°	1325.6	1299.4	1241.6	1051.3	921.6	836.9	765.0	698.4	637.9	577.5	525.0
15°	1353.2	1312.9	1232.1	1031.1	865.1	759.6	669.5	579.4	523.7	446.3	391.9
17.5°	1452.0	1419.7	1311.4	1052.7	836.2	685.7	551.9	459.2	373.7	303.8	276.2
20°	1616.7	1570.9	1435.2	1080.2	793.2	596.3	447.7	333.4	252.8	223.2	207.7
22.5°	1778.0	1753.1	1581.7	1133.3	754.9	516.9	336.1	224.5	188.9	183.5	173.4
25°	2085.2	2010.6	1805.5	1229.5	725.3	442.3	253.5	180.8	160.0	156.0	157.3
27.5°	2268.0	2205.5	2012.6	1293.4	692.4	385.2	214.5	166.1	151.9	143.2	139.8
30°	2443.5	2370.8	2115.4	1330.9	621.8	324.7	190.3	159.3	156.0	143.2	139.1
32.5°	2578.6	2507.3	2264.0	1387.5	592.9	285.7	156.6	124.3	115.6	114.2	126.4
35°	2785.6	2709.6	2391.0	1418.3	570.7	265.5	135.8	111.0	100.9	96.8	97.5
37.5°	2978.5	2926.8	2508.7	1430.5	547.2	259.5	121.7	99.5	90.7	88.1	87.4
40°	3139.9	3024.3	2620.2	1443.2	537.1	248.1	112.9	90.7	84.7	80.6	80.6
42.5°	3213.8	3096.2	2745.3	1435.9	534.4	229.9	112.9	83.4	78.6	74.6	73.9
45°	3197.7	3149.9	2801.1	1432.5	534.4	211.7	102.9	81.4	74.6	69.2	67.9
47.5°	3239.3	3176.9	2871.0	1446.6	523.7	199.0	86.7	85.3	70.5	63.9	62.5
50°	3246.8	3258.8	2992.7	1519.9	500.1	182.8	67.9	84.0	67.9	57.8	56.5
52°	3295.2	3219.9	3029.7	1558.9	475.3	170.8	57.2	72.0	65.2	53.8	52.5
52.5°	3228.6	3277.7	3038.4	1573.0	477.9	162.7	55.1	70.5	63.9	53.8	50.4
55°	3154.0	3201.1	3002.7	1603.2	438.2	127.7	43.0	51.1	57.8	47.1	45.0
57.5°	2741.3	2789.0	2609.5	1468.1	357.0	90.0	35.6	38.3	51.1	43.7	41.7
60°	2436.8	2402.5	2190.1	1224.8	253.5	50.4	28.3	29.6	55.8	40.3	39.7
62.5°	2227.0	2153.7	1830.4	945.8	154.6	33.6	22.2	22.9	43.0	37.7	37.7
65°	1647.6	1565.6	1216.0	572.1	76.0	23.5	16.8	18.2	26.9	32.3	32.3
67.5°	940.4	908.8	587.5	258.2	31.6	14.8	12.8	14.1	20.8	26.2	24.9
70°	432.2	387.9	225.9	54.4	14.8	10.1	10.1	11.4	16.8	19.5	18.2
72.5°	126.4	119.6	55.1	8.8	6.0	6.0	6.7	8.8	12.8	14.8	13.5
75°	9.4	6.0	4.1	2.7	2.7	4.1	5.4	8.8	12.8	14.1	11.4
77.5°	0.7	1.3	0.7	0.7	2.0	4.1	6.0	10.7	16.8	17.5	12.8
80°	0.7	0.7	0.0	0.7	2.0	4.1	6.7	12.1	18.8	20.2	10.7
82.5°	0.0	0.0	0.0	0.7	2.7	5.4	8.1	12.8	17.5	21.5	11.4
85°	0.0	0.0	0.0	0.7	4.1	7.4	9.4	3.4	2.0	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°	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1
2.5°	1445.3	1427.8	1421.1	1427.1	1425.1	1423.1	1460.1	1452.0	1450.7	1462.7	1460.1
5°	1084.9	1054.0	1138.7	1104.4	1140.0	1161.6	1165.6	1167.6	1192.5	1166.3	1200.6
7.5°	773.1	781.1	780.4	803.3	844.3	880.6	902.1	885.3	883.9	880.6	865.8
10°	617.8	603.6	601.0	595.5	608.3	639.2	665.5	644.6	629.8	650.0	643.9
12.5°	504.8	485.3	474.6	453.0	453.7	474.6	474.6	474.6	489.4	500.8	509.5
15°	387.2	371.1	371.1	349.5	344.8	345.5	356.3	357.6	381.2	387.9	391.2
17.5°	270.9	262.1	272.2	281.0	275.6	276.9	281.0	282.3	285.7	283.0	289.7
20°	208.4	207.0	209.8	225.2	236.6	243.4	238.7	231.9	227.9	218.5	218.5
22.5°	176.8	179.5	184.2	196.9	211.7	215.8	210.4	195.0	182.8	181.5	182.2
25°	157.3	160.0	167.4	175.5	183.5	190.3	184.9	173.4	166.7	160.7	160.7
27.5°	145.2	146.6	150.6	156.6	163.3	168.7	166.7	160.7	153.2	150.6	144.5
30°	135.8	137.8	142.5	143.8	149.9	152.6	149.2	147.9	143.2	139.8	137.8
32.5°	131.1	130.4	133.7	135.1	135.8	137.8	133.7	135.8	135.1	129.7	127.7
35°	98.8	104.2	112.9	120.3	122.3	125.0	124.3	121.7	114.2	108.2	100.9
37.5°	88.7	92.1	96.8	102.9	111.0	114.2	112.9	106.2	97.5	93.4	92.1
40°	82.0	84.0	88.1	92.1	100.1	106.2	101.5	95.4	88.7	85.3	83.4
42.5°	76.0	76.7	78.6	82.7	88.7	98.1	90.0	82.0	79.3	77.3	76.0
45°	69.2	69.2	72.0	73.9	80.6	89.4	81.4	73.9	72.6	71.3	70.5
47.5°	63.9	64.5	65.9	68.6	73.9	80.0	74.6	68.6	65.2	64.5	63.2
50°	57.2	57.8	60.5	63.2	69.9	73.3	69.9	63.2	59.8	57.8	57.8
52°	51.8	53.8	56.5	61.9	66.6	72.0	67.9	60.5	56.5	54.4	53.1
52.5°	51.1	52.5	55.1	61.2	66.6	71.3	67.3	59.8	55.1	53.8	52.5
55°	45.7	47.8	52.5	59.8	65.9	71.3	65.9	59.1	52.5	49.1	47.8
57.5°	43.7	45.0	51.1	60.5	65.2	71.3	65.9	59.1	52.5	46.4	45.0
60°	41.7	44.4	51.1	58.5	64.5	72.0	66.6	58.5	51.1	43.7	43.7
62.5°	39.7	41.7	50.4	57.2	61.9	69.2	63.9	57.2	49.1	41.7	41.0
65°	34.3	37.7	44.4	47.8	53.1	59.8	54.4	49.7	43.0	37.0	36.3
67.5°	26.2	27.6	33.0	37.0	40.3	46.4	43.7	37.7	33.0	28.3	28.3
70°	18.2	19.5	23.5	25.5	28.9	32.3	30.2	25.5	22.2	19.5	18.8
72.5°	12.8	13.5	14.8	16.1	17.5	18.8	18.2	14.8	12.8	12.1	11.4
75°	10.1	11.4	12.1	11.4	10.7	10.1	10.1	8.8	7.4	6.7	6.7
77.5°	10.1	10.7	10.1	8.8	7.4	6.7	6.0	5.4	4.1	3.4	4.1
80°	8.8	8.8	8.8	7.4	6.7	6.0	5.4	4.7	4.1	3.4	3.4
82.5°	9.4	9.4	8.8	7.4	7.4	6.0	6.0	5.4	4.7	3.4	3.4
85°	0.0	0.0	0.0	1.3	3.4	6.0	6.0	5.4	4.7	4.1	4.1
87.5°	0.0	0.0	0.0	0.0	0.7	1.3	2.7	3.4	4.1	4.1	4.1
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°	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1
2.5°	1484.3	1509.8	1558.2	1606.6	1636.2	1671.1	1734.3	1767.9	1811.6	1833.1	1875.4
5°	1195.9	1256.3	1277.9	1333.0	1392.2	1451.3	1545.4	1648.9	1735.0	1794.1	1870.7
7.5°	872.5	886.7	970.0	1006.9	1103.8	1211.3	1339.7	1470.1	1579.0	1675.8	1734.3
10°	654.0	705.8	758.3	828.8	906.8	1017.7	1140.8	1284.6	1425.8	1522.5	1596.5
12.5°	525.6	566.7	636.6	712.5	808.7	882.0	1005.6	1148.1	1330.9	1425.8	1523.2
15°	397.9	450.4	529.7	608.3	709.9	787.1	912.2	1091.7	1327.0	1457.3	1541.3
17.5°	295.1	330.7	402.0	490.0	593.6	702.4	871.2	1085.6	1372.0	1527.2	1614.0
20°	225.9	238.0	283.0	361.7	473.9	616.4	804.6	1111.9	1505.1	1697.3	1785.4
22.5°	182.8	188.2	205.7	260.1	369.0	541.1	773.1	1129.9	1654.9	1901.0	2018.7
25°	159.3	157.9	169.4	192.9	288.4	470.6	732.7	1198.5	1838.5	2140.3	2245.9
27.5°	145.2	145.2	150.6	167.4	239.3	424.9	707.1	1247.6	2023.4	2350.7	2407.9
30°	137.8	139.1	154.6	160.0	199.0	370.4	664.8	1297.4	2200.2	2485.2	2563.8
32.5°	127.7	122.3	119.0	132.4	167.4	321.3	622.5	1318.2	2343.3	2649.8	2717.1
35°	98.1	95.4	99.5	109.5	143.8	279.6	575.4	1341.7	2508.0	2840.7	2854.2
37.5°	88.7	88.1	90.7	99.5	121.0	243.4	541.8	1335.6	2633.7	2998.7	2962.4
40°	82.0	82.0	84.0	91.5	108.2	217.8	506.8	1330.3	2755.4	3176.2	3070.0
42.5°	76.7	76.7	80.0	84.7	102.9	201.0	480.6	1322.9	2857.6	3285.1	3133.2
45°	69.2	71.3	76.7	81.4	104.2	189.6	461.1	1294.7	2892.5	3283.7	3103.0
47.5°	63.9	66.6	72.0	78.6	94.1	186.2	447.7	1269.8	2880.4	3203.1	3008.1
50°	57.8	61.2	68.6	80.0	80.0	179.5	433.5	1292.0	2871.7	3140.5	2917.4
52°	53.8	56.5	65.9	78.0	69.9	165.4	424.9	1335.0	2907.3	3132.5	2877.1
52.5°	53.1	55.1	63.9	76.7	66.6	162.7	418.7	1345.1	2918.7	3112.3	2904.6
55°	47.1	49.7	58.5	59.8	54.4	133.7	399.3	1368.0	2862.3	3072.6	2878.4
57.5°	44.4	45.7	51.8	49.1	47.1	100.9	343.5	1332.4	2542.3	2729.1	2678.1
60°	41.0	42.4	48.4	38.3	39.7	70.5	258.2	1156.9	2041.5	2274.1	2366.1
62.5°	39.7	39.0	45.7	30.9	33.6	51.1	182.2	940.4	1573.0	1872.1	2031.4
65°	34.9	34.3	33.0	26.2	28.9	39.7	108.9	613.7	1108.5	1416.4	1503.8
67.5°	26.9	28.3	24.2	20.8	24.2	30.9	60.5	274.9	581.5	849.6	920.3
70°	18.8	20.2	19.5	18.2	21.5	25.5	34.9	94.1	240.6	446.3	492.0
72.5°	11.4	14.1	14.8	15.4	18.8	22.2	24.9	30.2	63.9	157.9	196.3
75°	6.7	9.4	11.4	13.5	15.4	18.8	20.8	21.5	22.2	29.6	47.8
77.5°	4.7	6.7	10.1	12.8	15.4	18.8	22.2	23.5	22.2	20.8	22.2
80°	4.1	6.7	9.4	12.1	16.1	19.5	22.2	22.2	21.5	18.8	20.2
82.5°	4.1	6.7	10.1	12.8	15.4	18.8	21.5	22.2	20.2	18.8	19.5
85°	4.7	7.4	10.7	13.5	16.8	15.4	14.1	11.4	10.7	8.8	9.4
87.5°	4.7	6.7	6.7	7.4	8.1	8.1	8.1	7.4	6.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1	1718.1
2.5°	1877.5	1931.3	1929.2	1930.6	1922.5	1868.1	1841.9	1775.3	1794.1	1786.0
5°	1949.4	2002.5	2048.2	2042.8	1981.0	1907.1	1797.5	1693.9	1665.8	1624.0
7.5°	1877.5	2005.2	2047.5	2041.5	1950.1	1855.3	1680.6	1577.0	1527.9	1500.4
10°	1763.2	1911.1	1963.5	1974.3	1912.4	1768.6	1607.9	1441.9	1415.7	1368.0
12.5°	1698.0	1805.5	1837.8	1866.8	1845.2	1737.6	1552.8	1393.5	1357.2	1325.6
15°	1644.9	1708.7	1722.2	1755.2	1767.9	1710.1	1581.7	1445.9	1356.5	1353.2
17.5°	1693.9	1667.7	1618.7	1628.8	1669.1	1710.8	1656.4	1549.5	1462.7	1452.0
20°	1775.3	1659.6	1548.8	1573.7	1607.3	1735.0	1769.3	1693.9	1644.2	1616.7
22.5°	1868.7	1673.8	1526.6	1538.7	1602.6	1789.4	1952.1	1910.4	1817.7	1778.0
25°	2041.5	1712.8	1544.1	1552.1	1639.5	1865.3	2117.5	2148.4	2093.3	2085.2
27.5°	2210.3	1813.6	1582.4	1564.2	1658.3	1939.3	2217.6	2383.7	2286.8	2268.0
30°	2296.2	1895.6	1639.5	1608.6	1736.3	1984.4	2278.1	2536.9	2452.2	2443.5
32.5°	2428.0	1970.3	1683.9	1644.2	1780.0	2040.2	2391.0	2704.3	2622.3	2578.6
35°	2483.1	2051.6	1781.3	1735.0	1905.0	2118.1	2448.8	2853.5	2828.0	2785.6
37.5°	2589.4	2139.0	1896.3	1893.6	2056.3	2219.6	2553.0	3056.5	3051.8	2978.5
40°	2598.1	2234.4	2077.8	2162.5	2290.2	2396.4	2644.5	3113.0	3189.6	3139.9
42.5°	2611.5	2401.8	2391.8	2461.6	2571.2	2548.4	2647.8	3126.4	3243.4	3213.8
45°	2617.6	2569.2	2711.0	2840.1	2885.8	2747.3	2616.2	3100.9	3271.6	3197.7
47.5°	2569.2	2713.0	2969.1	3218.5	3232.0	2869.7	2602.8	3074.7	3288.4	3239.3
50°	2575.9	2803.1	3192.3	3415.5	3366.4	2977.9	2581.9	3058.6	3279.7	3246.8
52°	2559.8	2805.1	3223.9	3411.5	3377.2	2918.1	2546.3	2996.7	3271.6	3295.2
52.5°	2577.9	2793.0	3191.0	3414.1	3369.8	2947.6	2541.6	3031.0	3276.3	3228.6
55°	2515.4	2649.2	2998.0	3092.8	3086.1	2675.4	2397.1	2917.4	3153.3	3154.0
57.5°	2273.4	2296.2	2351.3	2349.4	2318.5	2103.4	2050.2	2682.8	2811.2	2741.3
60°	2003.1	1681.2	1532.6	1472.1	1437.8	1402.9	1813.6	2454.2	2466.3	2436.8
62.5°	1730.9	1165.6	967.9	951.2	959.3	1087.0	1753.1	2363.5	2290.9	2227.0
65°	1396.9	849.6	703.1	681.0	759.6	897.4	1419.0	1812.3	1700.7	1647.6
67.5°	877.2	619.7	475.3	433.5	528.4	617.8	932.3	1138.7	1013.7	940.4
70°	520.3	346.2	215.1	192.9	217.1	329.4	522.3	568.0	469.9	432.2
72.5°	205.0	127.1	59.8	51.1	53.1	115.6	192.2	187.5	141.8	126.4
75°	55.1	38.3	20.8	16.8	14.1	21.5	30.9	20.2	7.4	9.4
77.5°	25.5	22.9	18.2	14.1	10.7	8.1	4.1	1.3	1.3	0.7
80°	22.2	19.5	16.8	14.1	10.7	6.7	3.4	0.7	0.7	0.7
82.5°	20.8	18.2	15.4	12.8	10.1	6.7	3.4	0.7	0.0	0.0
85°	8.8	11.4	12.8	12.1	10.7	6.7	3.4	0.7	0.0	0.0
87.5°	4.7	4.1	3.4	2.7	2.0	1.3	1.3	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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