

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: P651188

Luminaire Tested: **GALN-SA1D-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651188
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-840-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 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: 3639 lumens
Efficiency: N/A
Efficacy: 56.0 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

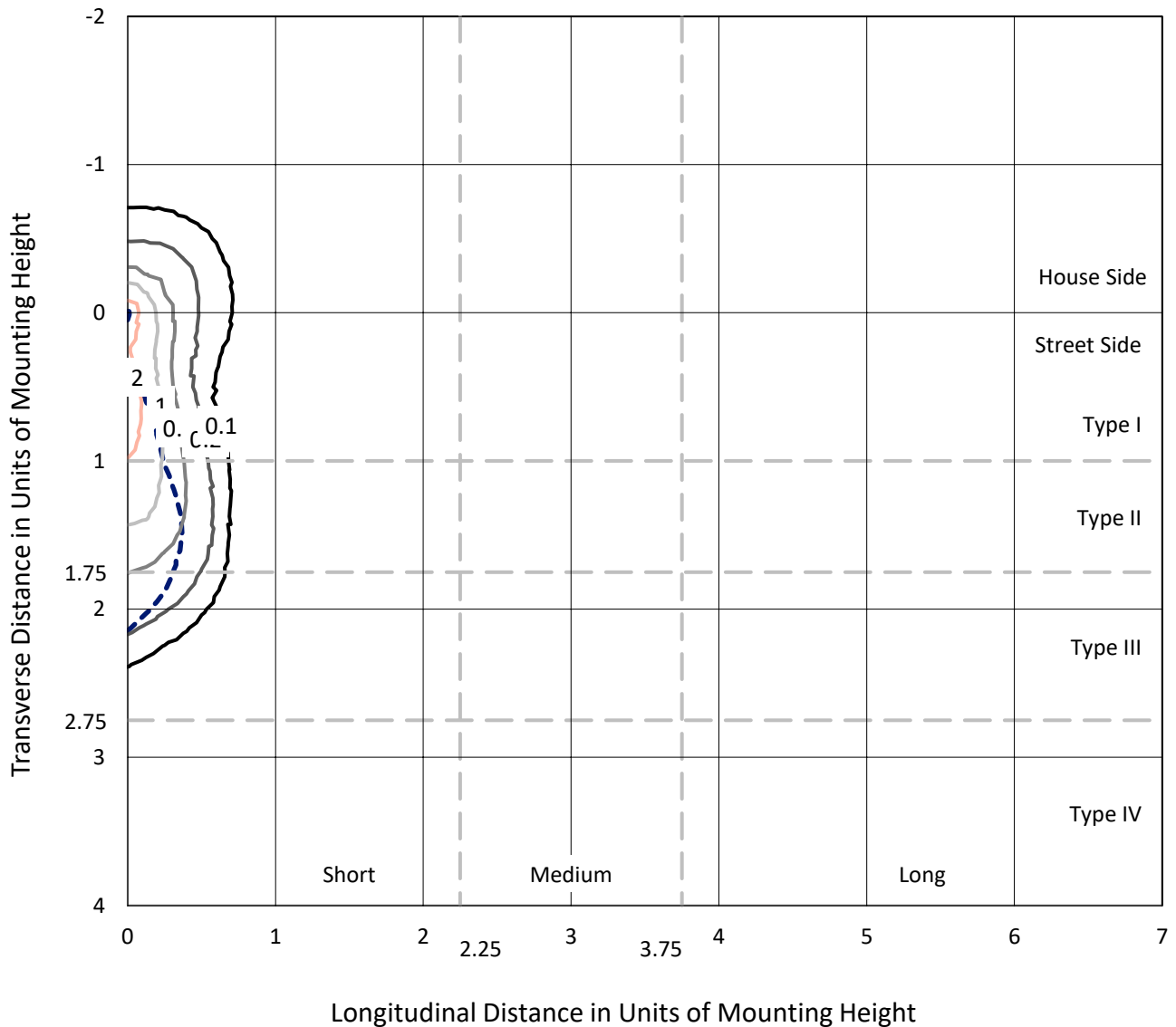
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

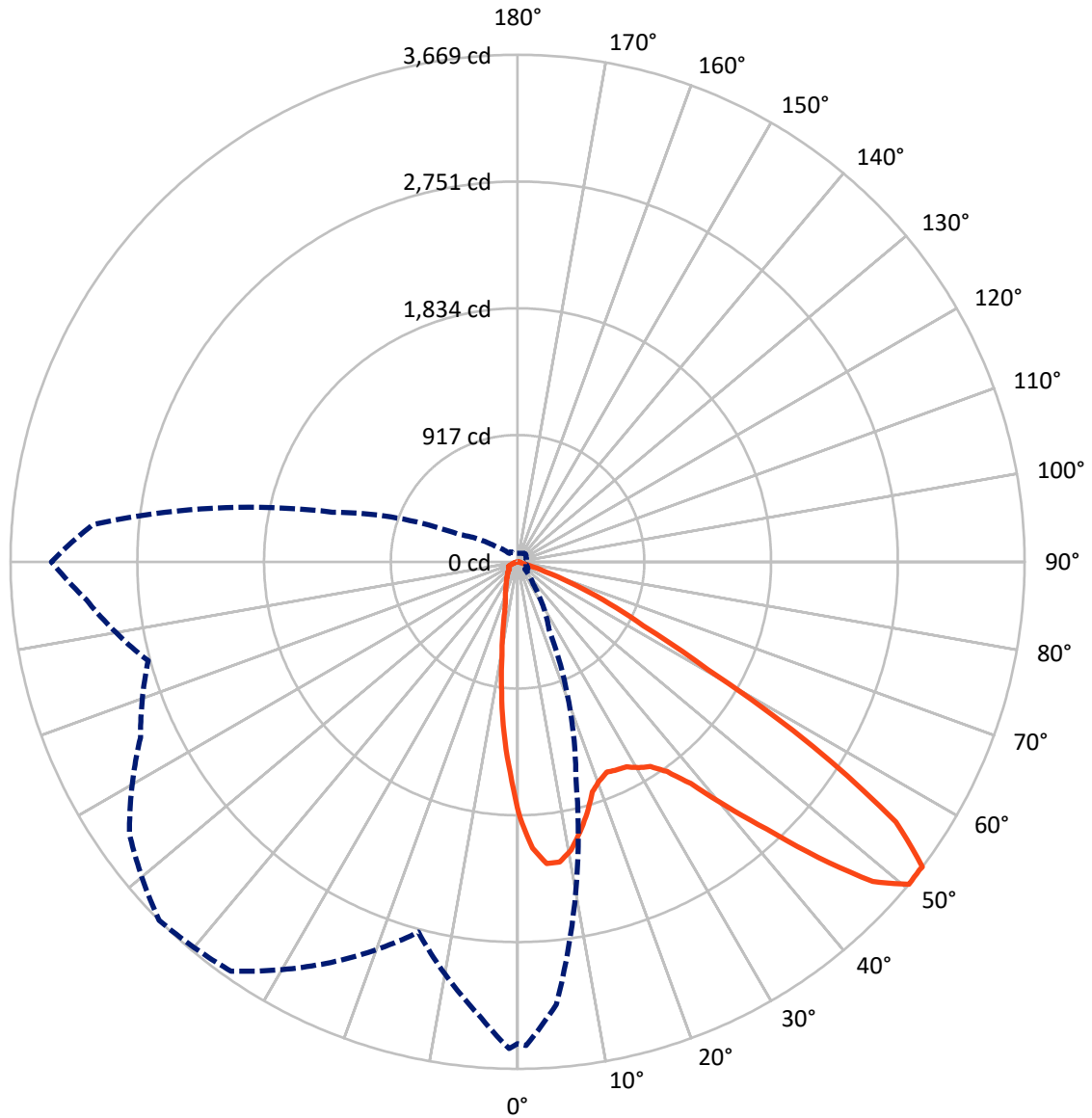
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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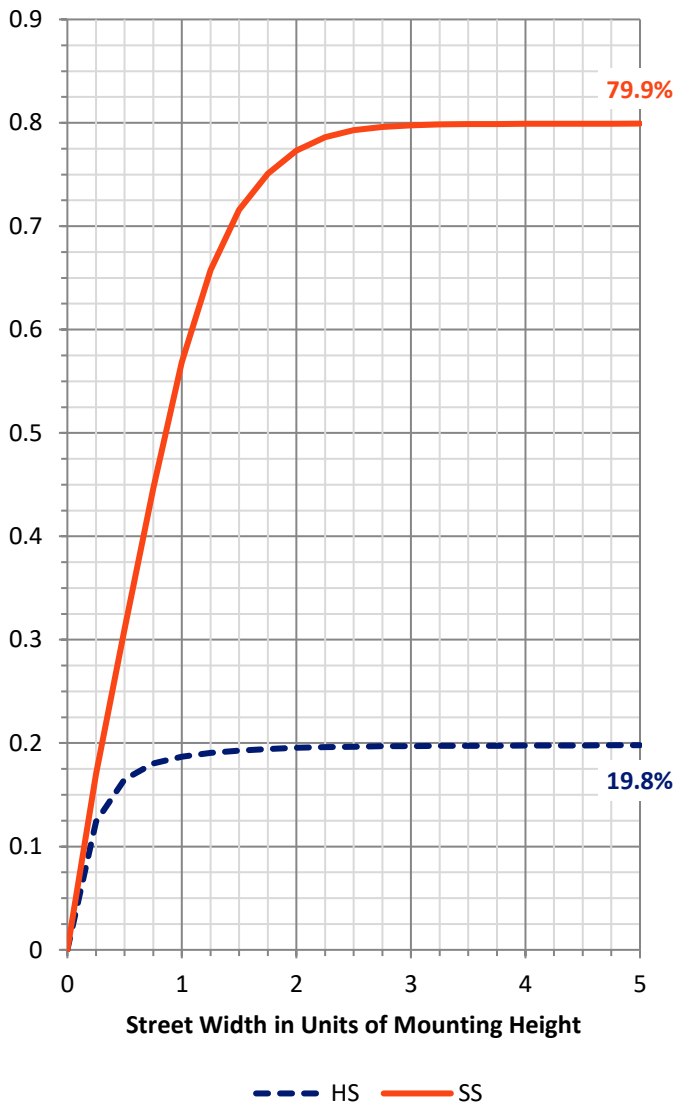
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	728.9	0.0	728.9
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	2910.1	0.0	2910.1
	% Fixture	80.0	0.0	80.0
Total	Lumens	3639.0	0.0	3639.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	3.7
10°-20°	267.3	7.3
20°-30°	401.6	11.0
30°-40°	602.8	16.6
40°-50°	847.2	23.3
50°-60°	913.9	25.1
60°-70°	424.3	11.7
70°-80°	39.9	1.1
80°-90°	7.4	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°	3639.0	100.0
0°-180°	3639.0	100.0

Coefficient of Utilization

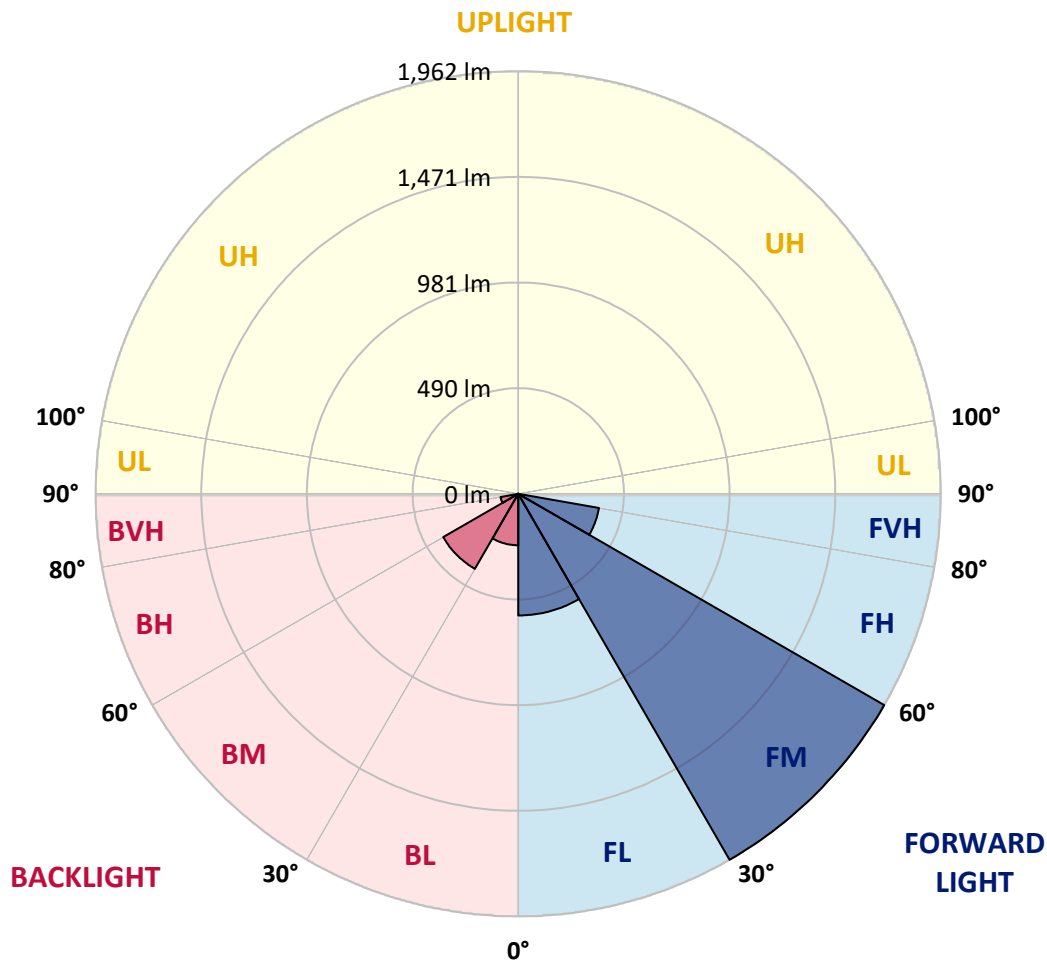


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	564.6	15.5			
FM (30°-60°)	1961.7	53.9			
FH (60°-80°)	380.5	10.5			G0/660
FVH (80°-90°)	3.3	0.1			G0/10
BL (0°-30°)	238.9	6.6	B1/500		
BM (30°-60°)	402.2	11.1	B1/1000		
BH (60°-80°)	83.7	2.3	B0/110		G0/110
BVH (80°-90°)	4.0	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°	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4
2.5°	1918.3	1888.7	1851.2	1820.2	1773.9	1680.8	1655.5	1625.2	1599.9	1566.0	1518.3
5°	1744.3	1735.0	1717.7	1600.7	1516.2	1403.5	1311.1	1272.2	1220.9	1179.0	1148.7
7.5°	1611.5	1573.9	1519.1	1401.4	1266.4	1145.8	1043.3	983.4	915.5	892.4	851.3
10°	1469.3	1478.0	1397.1	1231.7	1068.6	971.1	907.5	849.8	788.4	748.0	689.5
12.5°	1423.8	1395.6	1333.6	1129.2	989.9	898.9	821.7	750.2	685.2	620.2	563.9
15°	1453.4	1410.1	1323.4	1107.5	929.2	815.9	719.1	622.3	562.5	479.4	420.9
17.5°	1559.6	1524.9	1408.6	1130.6	898.2	736.5	592.7	493.2	401.4	326.3	296.7
20°	1736.4	1687.3	1541.5	1160.2	851.9	640.4	480.9	358.1	271.5	239.7	223.1
22.5°	1909.7	1883.0	1698.9	1217.3	810.8	555.2	361.0	241.1	202.8	197.1	186.3
25°	2239.7	2159.5	1939.3	1320.5	779.0	475.1	272.2	194.2	171.8	167.5	169.0
27.5°	2436.0	2368.8	2161.7	1389.2	743.7	413.7	230.3	178.4	163.2	153.8	150.2
30°	2624.5	2546.5	2272.1	1429.5	667.8	348.8	204.4	171.1	167.5	153.8	149.4
32.5°	2769.6	2693.1	2431.7	1490.3	636.8	306.9	168.2	133.6	124.2	122.7	135.7
35°	2991.9	2910.4	2568.2	1523.4	613.0	285.2	145.8	119.2	108.3	103.9	104.7
37.5°	3199.2	3143.6	2694.5	1536.4	587.7	278.7	130.7	106.9	97.5	94.6	93.9
40°	3372.5	3248.3	2814.3	1550.1	576.8	266.4	121.3	97.5	91.0	86.6	86.6
42.5°	3451.9	3325.6	2948.6	1542.2	574.0	246.9	121.3	89.6	84.4	80.1	79.4
45°	3434.6	3383.3	3008.6	1538.6	574.0	227.4	110.5	87.4	80.1	74.3	72.9
47.5°	3479.3	3412.2	3083.7	1553.7	562.5	213.7	93.1	91.7	75.8	68.6	67.1
50°	3487.3	3500.2	3214.4	1632.5	537.1	196.4	72.9	90.2	72.9	62.1	60.6
52°	3539.3	3458.4	3254.1	1674.3	510.5	183.4	61.4	77.3	70.1	57.8	56.3
52.5°	3467.8	3520.5	3263.4	1689.5	513.3	174.8	59.2	75.8	68.6	57.8	54.2
55°	3387.6	3438.2	3225.2	1721.9	470.7	137.2	46.2	54.8	62.1	50.5	48.4
57.5°	2944.3	2995.6	2802.8	1576.9	383.4	96.7	38.3	41.1	54.8	46.9	44.7
60°	2617.3	2580.4	2352.3	1315.5	272.2	54.2	30.4	31.8	60.0	43.3	42.6
62.5°	2392.0	2313.3	1966.0	1015.8	166.1	36.1	23.8	24.6	46.2	40.5	40.5
65°	1769.6	1681.6	1306.1	614.4	81.6	25.2	18.1	19.5	28.8	34.6	34.6
67.5°	1010.0	976.1	631.0	277.3	33.9	15.9	13.7	15.1	22.4	28.2	26.7
70°	464.2	416.6	242.6	58.4	15.9	10.8	10.8	12.3	18.1	20.9	19.5
72.5°	135.7	128.5	59.2	9.4	6.5	6.5	7.2	9.4	13.7	15.9	14.5
75°	10.1	6.5	4.4	2.9	2.9	4.4	5.8	9.4	13.7	15.1	12.3
77.5°	0.8	1.4	0.8	0.8	2.2	4.4	6.5	11.5	18.1	18.8	13.7
80°	0.8	0.8	0.0	0.8	2.2	4.4	7.2	13.0	20.2	21.7	11.5
82.5°	0.0	0.0	0.0	0.8	2.9	5.8	8.7	13.7	18.8	23.1	12.3
85°	0.0	0.0	0.0	0.8	4.4	7.9	10.1	3.6	2.2	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°	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4
2.5°	1552.3	1533.6	1526.3	1532.8	1530.6	1528.5	1568.2	1559.6	1558.1	1571.1	1568.2
5°	1165.3	1132.1	1223.1	1186.2	1224.5	1247.6	1251.9	1254.1	1280.8	1252.7	1289.5
7.5°	830.3	839.0	838.2	862.8	906.9	945.8	968.9	950.8	949.4	945.8	930.0
10°	663.5	648.3	645.5	639.7	653.4	686.6	714.8	692.4	676.5	698.2	691.6
12.5°	542.2	521.3	509.7	486.6	487.4	509.7	509.7	509.7	525.6	537.9	547.2
15°	415.9	398.5	398.5	375.4	370.4	371.1	382.7	384.1	409.4	416.6	420.2
17.5°	291.0	281.6	292.4	301.8	296.0	297.5	301.8	303.3	306.9	303.9	311.2
20°	223.8	222.4	225.3	241.9	254.2	261.4	256.3	249.1	244.7	234.6	234.6
22.5°	189.9	192.8	197.8	211.5	227.4	231.8	226.0	209.4	196.4	194.9	195.7
25°	169.0	171.8	179.8	188.5	197.1	204.4	198.6	186.3	179.0	172.6	172.6
27.5°	155.9	157.4	161.7	168.2	175.4	181.2	179.0	172.6	164.6	161.7	155.2
30°	145.8	148.0	153.1	154.5	161.0	163.9	160.3	158.9	153.8	150.2	148.0
32.5°	140.8	140.0	143.6	145.2	145.8	148.0	143.6	145.8	145.2	139.4	137.2
35°	106.1	111.9	121.3	129.3	131.4	134.3	133.6	130.7	122.7	116.2	108.3
37.5°	95.3	98.9	103.9	110.5	119.2	122.7	121.3	114.0	104.7	100.3	98.9
40°	88.1	90.2	94.6	98.9	107.6	114.0	109.0	102.5	95.3	91.7	89.6
42.5°	81.6	82.3	84.4	88.8	95.3	105.4	96.7	88.1	85.2	83.0	81.6
45°	74.3	74.3	77.3	79.4	86.6	96.0	87.4	79.4	78.0	76.5	75.8
47.5°	68.6	69.3	70.7	73.7	79.4	86.0	80.1	73.7	70.1	69.3	67.9
50°	61.4	62.1	65.0	67.9	75.1	78.7	75.1	67.9	64.3	62.1	62.1
52°	55.6	57.8	60.6	66.4	71.5	77.3	72.9	65.0	60.6	58.4	57.0
52.5°	54.8	56.3	59.2	65.7	71.5	76.5	72.2	64.3	59.2	57.8	56.3
55°	49.1	51.3	56.3	64.3	70.7	76.5	70.7	63.5	56.3	52.7	51.3
57.5°	46.9	48.4	54.8	65.0	70.1	76.5	70.7	63.5	56.3	49.8	48.4
60°	44.7	47.7	54.8	62.8	69.3	77.3	71.5	62.8	54.8	46.9	46.9
62.5°	42.6	44.7	54.2	61.4	66.4	74.3	68.6	61.4	52.7	44.7	44.1
65°	36.8	40.5	47.7	51.3	57.0	64.3	58.4	53.4	46.2	39.7	39.0
67.5°	28.2	29.6	35.4	39.7	43.3	49.8	46.9	40.5	35.4	30.4	30.4
70°	19.5	20.9	25.2	27.4	31.0	34.6	32.5	27.4	23.8	20.9	20.2
72.5°	13.7	14.5	15.9	17.3	18.8	20.2	19.5	15.9	13.7	13.0	12.3
75°	10.8	12.3	13.0	12.3	11.5	10.8	10.8	9.4	7.9	7.2	7.2
77.5°	10.8	11.5	10.8	9.4	7.9	7.2	6.5	5.8	4.4	3.6	4.4
80°	9.4	9.4	9.4	7.9	7.2	6.5	5.8	5.0	4.4	3.6	3.6
82.5°	10.1	10.1	9.4	7.9	7.9	6.5	6.5	5.8	5.0	3.6	3.6
85°	0.0	0.0	0.0	1.4	3.6	6.5	6.5	5.8	5.0	4.4	4.4
87.5°	0.0	0.0	0.0	0.0	0.8	1.4	2.9	3.6	4.4	4.4	4.4
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°	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4
2.5°	1594.2	1621.6	1673.6	1725.6	1757.4	1794.9	1862.7	1898.9	1945.8	1968.9	2014.4
5°	1284.5	1349.4	1372.5	1431.7	1495.3	1558.8	1659.9	1771.1	1863.5	1927.0	2009.3
7.5°	937.1	952.3	1041.8	1081.5	1185.6	1301.0	1439.0	1579.0	1696.0	1799.9	1862.7
10°	702.5	758.1	814.4	890.2	974.0	1093.1	1225.3	1379.7	1531.4	1635.3	1714.7
12.5°	564.6	608.6	683.7	765.3	868.6	947.3	1080.1	1233.2	1429.5	1531.4	1636.1
15°	427.4	483.7	568.9	653.4	762.5	845.5	979.8	1172.5	1425.2	1565.3	1655.5
17.5°	317.0	355.2	431.8	526.3	637.6	754.5	935.7	1166.0	1473.6	1640.4	1733.6
20°	242.6	255.6	303.9	388.5	509.0	662.0	864.2	1194.2	1616.6	1823.0	1917.6
22.5°	196.4	202.2	220.9	279.4	396.4	581.2	830.3	1213.6	1777.5	2041.8	2168.2
25°	171.1	169.6	181.9	207.2	309.7	505.4	787.0	1287.3	1974.7	2298.9	2412.2
27.5°	155.9	155.9	161.7	179.8	257.0	456.3	759.5	1340.0	2173.2	2524.9	2586.2
30°	148.0	149.4	166.1	171.8	213.7	397.8	714.1	1393.5	2363.1	2669.2	2753.7
32.5°	137.2	131.4	127.8	142.2	179.8	345.1	668.6	1415.8	2516.9	2846.1	2918.4
35°	105.4	102.5	106.9	117.7	154.5	300.3	618.1	1441.1	2693.8	3051.1	3065.6
37.5°	95.3	94.6	97.5	106.9	129.9	261.4	582.0	1434.6	2828.8	3220.9	3181.8
40°	88.1	88.1	90.2	98.2	116.2	234.0	544.4	1428.9	2959.5	3411.4	3297.4
42.5°	82.3	82.3	86.0	91.0	110.5	215.9	516.2	1420.9	3069.2	3528.4	3365.3
45°	74.3	76.5	82.3	87.4	111.9	203.6	495.3	1390.6	3106.7	3527.0	3332.8
47.5°	68.6	71.5	77.3	84.4	101.1	200.0	480.9	1363.8	3093.8	3440.4	3231.0
50°	62.1	65.7	73.7	86.0	86.0	192.8	465.7	1387.6	3084.4	3373.2	3133.5
52°	57.8	60.6	70.7	83.8	75.1	177.6	456.3	1433.9	3122.6	3364.5	3090.2
52.5°	57.0	59.2	68.6	82.3	71.5	174.8	449.8	1444.8	3134.9	3342.9	3119.8
55°	50.5	53.4	62.8	64.3	58.4	143.6	428.9	1469.3	3074.3	3300.3	3091.6
57.5°	47.7	49.1	55.6	52.7	50.5	108.3	368.9	1431.0	2730.6	2931.3	2876.5
60°	44.1	45.5	52.0	41.1	42.6	75.8	277.3	1242.6	2192.7	2442.5	2541.4
62.5°	42.6	41.9	49.1	33.2	36.1	54.8	195.7	1010.0	1689.5	2010.7	2181.9
65°	37.5	36.8	35.4	28.2	31.0	42.6	117.0	659.2	1190.6	1521.3	1615.1
67.5°	28.8	30.4	26.0	22.4	26.0	33.2	65.0	295.3	624.5	912.6	988.4
70°	20.2	21.7	20.9	19.5	23.1	27.4	37.5	101.1	258.4	479.4	528.5
72.5°	12.3	15.1	15.9	16.6	20.2	23.8	26.7	32.5	68.6	169.6	210.8
75°	7.2	10.1	12.3	14.5	16.6	20.2	22.4	23.1	23.8	31.8	51.3
77.5°	5.0	7.2	10.8	13.7	16.6	20.2	23.8	25.2	23.8	22.4	23.8
80°	4.4	7.2	10.1	13.0	17.3	20.9	23.8	23.8	23.1	20.2	21.7
82.5°	4.4	7.2	10.8	13.7	16.6	20.2	23.1	23.8	21.7	20.2	20.9
85°	5.0	7.9	11.5	14.5	18.1	16.6	15.1	12.3	11.5	9.4	10.1
87.5°	5.0	7.2	7.2	7.9	8.7	8.7	8.7	7.9	6.5	5.8	5.8
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°	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4	1845.4
2.5°	2016.5	2074.3	2072.1	2073.6	2064.9	2006.5	1978.3	1906.8	1927.0	1918.3
5°	2093.8	2150.9	2200.0	2194.2	2127.7	2048.3	1930.6	1819.4	1789.1	1744.3
7.5°	2016.5	2153.7	2199.2	2192.7	2094.5	1992.7	1805.0	1693.8	1641.1	1611.5
10°	1893.8	2052.6	2109.0	2120.5	2054.1	1899.6	1727.0	1548.7	1520.5	1469.3
12.5°	1823.8	1939.3	1973.9	2005.0	1981.9	1866.3	1667.8	1496.7	1457.7	1423.8
15°	1766.8	1835.3	1849.8	1885.2	1898.9	1836.7	1698.9	1553.0	1457.0	1453.4
17.5°	1819.4	1791.2	1738.6	1749.4	1792.8	1837.5	1779.1	1664.3	1571.1	1559.6
20°	1906.8	1782.6	1663.5	1690.2	1726.3	1863.5	1900.3	1819.4	1766.0	1736.4
22.5°	2007.1	1797.8	1639.7	1652.6	1721.3	1921.9	2096.7	2052.0	1952.3	1909.7
25°	2192.7	1839.7	1658.5	1667.1	1761.0	2003.5	2274.3	2307.5	2248.3	2239.7
27.5°	2374.0	1947.9	1699.6	1680.1	1781.2	2083.0	2381.9	2560.3	2456.2	2436.0
30°	2466.3	2036.1	1761.0	1727.8	1864.9	2131.3	2446.9	2724.8	2633.8	2624.5
32.5°	2607.9	2116.2	1808.7	1766.0	1911.8	2191.3	2568.2	2904.6	2816.5	2769.6
35°	2667.1	2203.6	1913.3	1863.5	2046.2	2275.0	2630.2	3064.9	3037.4	2991.9
37.5°	2781.2	2297.4	2036.7	2033.9	2208.6	2384.1	2742.2	3282.9	3277.9	3199.2
40°	2790.5	2400.0	2231.7	2322.7	2459.8	2574.0	2840.4	3343.6	3425.9	3372.5
42.5°	2805.0	2579.7	2568.9	2643.9	2761.7	2737.1	2843.9	3358.0	3483.7	3451.9
45°	2811.5	2759.5	2911.8	3050.5	3099.6	2950.8	2810.0	3330.6	3514.0	3434.6
47.5°	2759.5	2914.0	3189.1	3456.9	3471.4	3082.3	2795.6	3302.4	3532.0	3479.3
50°	2766.7	3010.8	3428.8	3668.5	3615.8	3198.5	2773.2	3285.1	3522.6	3487.3
52°	2749.4	3012.9	3462.7	3664.2	3627.3	3134.2	2734.9	3218.7	3514.0	3539.3
52.5°	2768.9	2999.9	3427.3	3667.0	3619.4	3165.9	2729.9	3255.5	3519.0	3467.8
55°	2701.7	2845.4	3220.1	3322.0	3314.7	2873.5	2574.6	3133.5	3386.9	3387.6
57.5°	2441.8	2466.3	2525.5	2523.4	2490.2	2259.2	2202.1	2881.5	3019.4	2944.3
60°	2151.5	1805.7	1646.2	1581.2	1544.3	1506.8	1947.9	2636.0	2649.0	2617.3
62.5°	1859.1	1251.9	1039.6	1021.6	1030.3	1167.5	1883.0	2538.6	2460.6	2392.0
65°	1500.3	912.6	755.2	731.4	815.9	963.9	1524.1	1946.5	1826.7	1769.6
67.5°	942.2	665.7	510.5	465.7	567.5	663.5	1001.4	1223.1	1088.8	1010.0
70°	558.8	371.8	231.0	207.2	233.2	353.8	561.0	610.1	504.7	464.2
72.5°	220.2	136.5	64.3	54.8	57.0	124.2	206.5	201.4	152.3	135.7
75°	59.2	41.1	22.4	18.1	15.1	23.1	33.2	21.7	7.9	10.1
77.5°	27.4	24.6	19.5	15.1	11.5	8.7	4.4	1.4	1.4	0.8
80°	23.8	20.9	18.1	15.1	11.5	7.2	3.6	0.8	0.8	0.8
82.5°	22.4	19.5	16.6	13.7	10.8	7.2	3.6	0.8	0.0	0.0
85°	9.4	12.3	13.7	13.0	11.5	7.2	3.6	0.8	0.0	0.0
87.5°	5.0	4.4	3.6	2.9	2.2	1.4	1.4	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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