

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: P650689

Luminaire Tested: **GALN-SA1C-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-840-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3307.7 lumens
Efficiency: N/A
Efficacy: 58.0 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

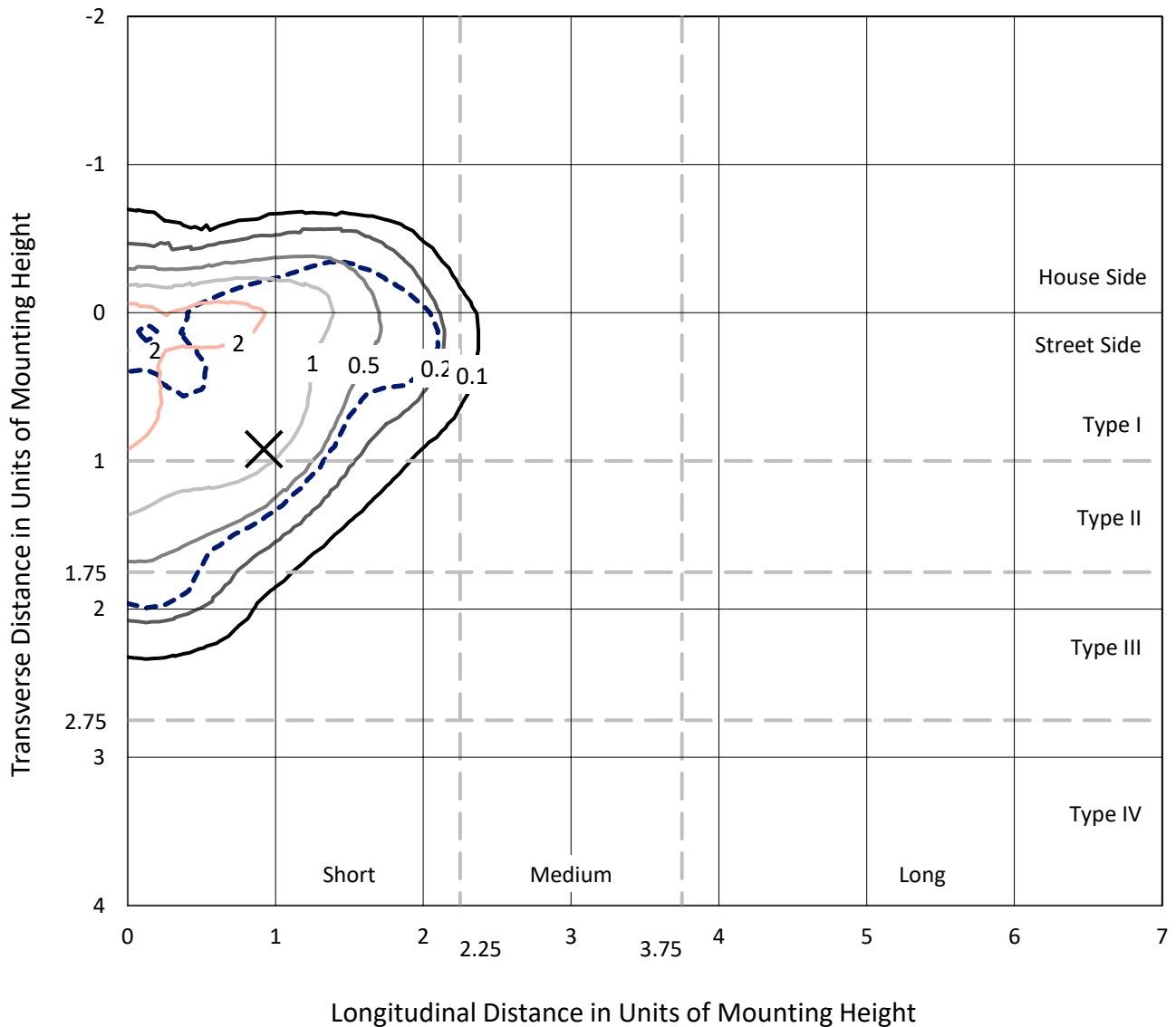
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

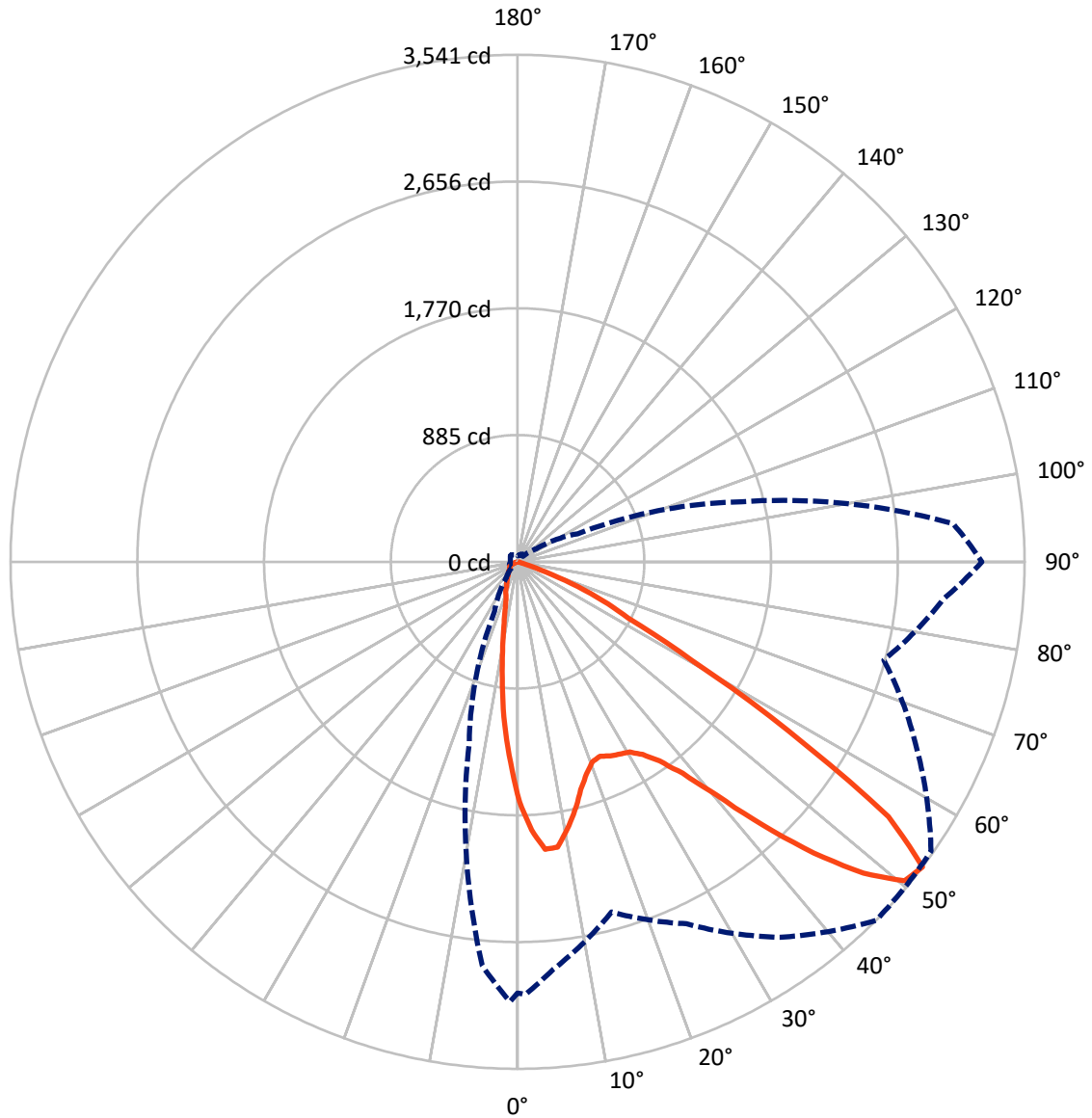
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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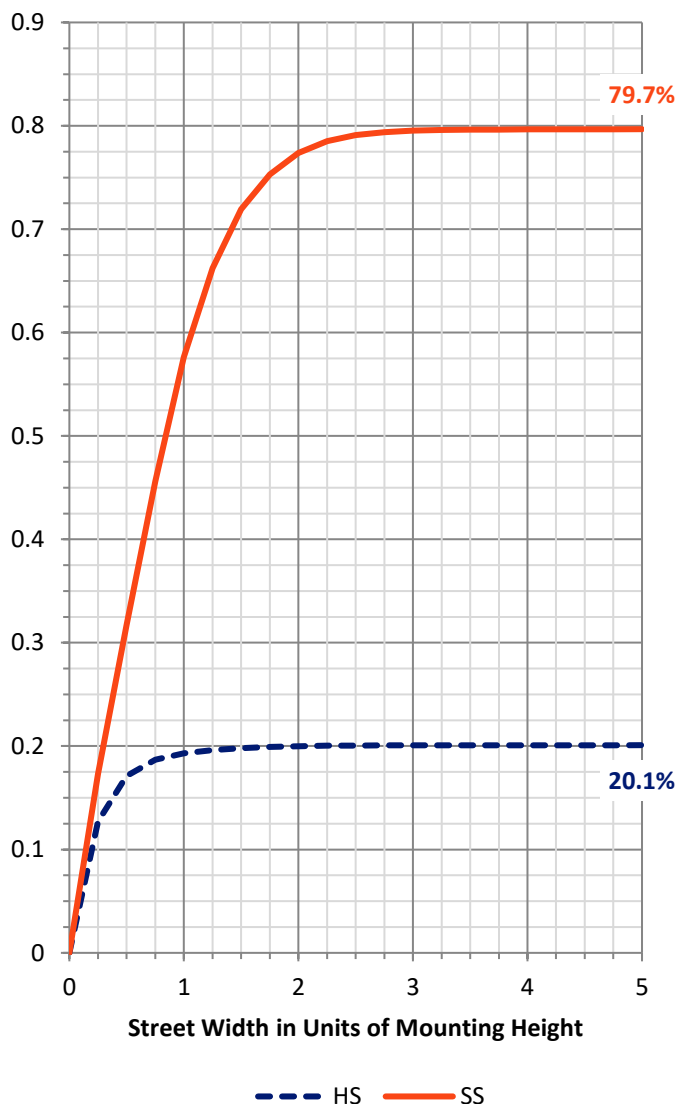
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	671.3	0.0	671.3
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	2636.4	0.0	2636.4
	% Fixture	79.7	0.0	79.7
Total	Lumens	3307.7	0.0	3307.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	3.7
10°-20°	241.3	7.3
20°-30°	367.2	11.1
30°-40°	548.9	16.6
40°-50°	781.7	23.6
50°-60°	840.3	25.4
60°-70°	372.3	11.3
70°-80°	30.1	0.9
80°-90°	3.5	0.1
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°	3307.7	100.0
0°-180°	3307.7	100.0

Coefficient of Utilization

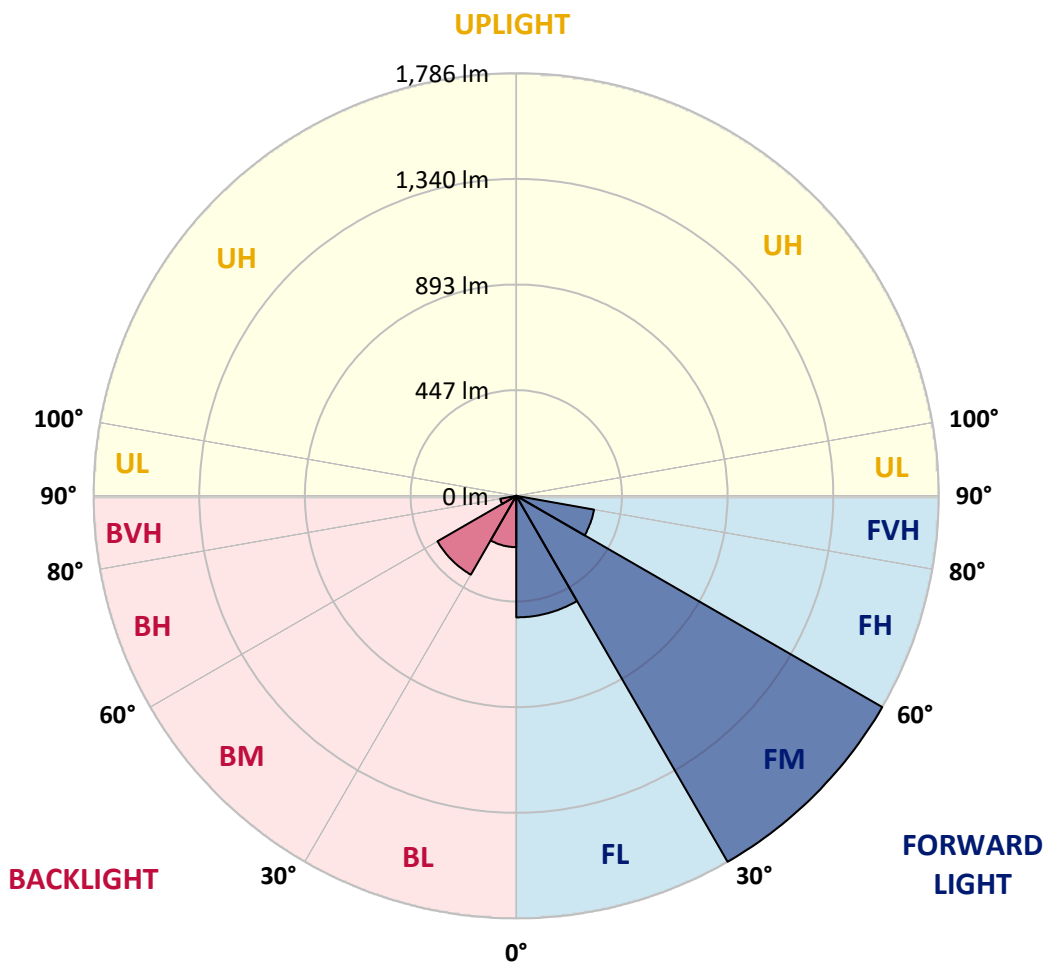


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	513.7	15.5			
FM (30°-60°)	1786.2	54.0			
FH (60°-80°)	333.8	10.1			G0/660
FVH (80°-90°)	2.6	0.1			G0/10
BL (0°-30°)	217.1	6.6	B1/500		
BM (30°-60°)	384.6	11.6	B1/1000		
BH (60°-80°)	68.7	2.1	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			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°	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1
2.5°	1774.7	1779.9	1808.6	1844.3	1863.2	1906.1	1876.2	1884.0	1867.8	1810.5	1765.6
5°	1720.7	1720.1	1756.5	1845.0	1928.9	2014.1	2016.7	1971.2	1891.2	1803.4	1677.8
7.5°	1558.1	1583.4	1621.2	1762.3	1917.8	1981.6	2012.2	1958.9	1835.9	1710.3	1574.4
10°	1435.2	1448.1	1511.9	1682.3	1796.2	1881.4	1900.2	1869.7	1775.4	1618.6	1466.4
12.5°	1364.2	1370.7	1445.5	1588.6	1709.0	1772.2	1781.2	1795.5	1727.9	1580.8	1398.1
15°	1364.9	1370.1	1470.9	1590.6	1638.1	1621.2	1651.1	1650.5	1679.7	1573.7	1455.3
17.5°	1463.1	1469.0	1560.1	1619.3	1598.4	1558.7	1556.8	1586.7	1648.5	1662.8	1541.8
20°	1632.2	1645.9	1712.9	1709.7	1592.6	1512.5	1490.4	1513.2	1656.9	1738.3	1716.1
22.5°	1860.0	1878.8	1925.6	1835.9	1619.3	1481.3	1474.2	1518.4	1712.9	1906.8	1913.9
25°	2124.0	2155.9	2178.7	2063.6	1714.2	1535.3	1501.5	1577.6	1788.4	2089.5	2165.7
27.5°	2299.0	2332.3	2327.0	2162.5	1778.0	1549.6	1521.0	1591.9	1854.1	2133.2	2297.1
30°	2435.7	2455.9	2492.3	2215.8	1841.7	1590.0	1541.1	1652.4	1875.5	2208.6	2455.9
32.5°	2595.1	2608.7	2611.3	2310.1	1939.9	1640.7	1603.6	1727.9	1970.5	2280.9	2596.3
35°	2755.8	2775.9	2733.7	2426.5	2000.5	1735.1	1707.7	1858.6	2046.7	2355.6	2751.2
37.5°	2930.1	2940.5	2842.9	2474.7	2087.0	1888.5	1873.6	1999.8	2178.7	2491.0	2923.0
40°	3076.5	3086.2	2959.4	2533.9	2178.0	2103.3	2141.6	2269.1	2358.2	2578.8	3008.8
42.5°	3157.8	3180.6	2998.4	2501.4	2360.9	2346.6	2517.0	2561.9	2566.5	2603.6	3085.6
45°	3179.9	3169.5	2934.0	2528.0	2520.9	2746.6	2901.4	2960.7	2773.3	2649.1	3105.1
47.5°	3077.8	3091.4	2839.0	2504.7	2731.1	3049.8	3250.2	3360.1	2927.5	2609.4	3057.0
50°	2995.1	2977.6	2808.4	2487.8	2787.7	3192.9	3501.9	3526.6	3069.3	2658.1	3004.3
52.5°	3011.5	3022.5	2857.2	2532.6	2788.9	3201.4	3540.9	3524.0	3073.9	2647.1	2985.4
55°	3045.9	2997.1	2836.4	2433.8	2602.2	2965.2	3142.8	3116.8	2837.1	2529.4	2939.2
57.5°	2628.2	2703.7	2608.1	2172.9	2135.8	2234.0	2230.8	2310.8	2116.3	2176.8	2675.7
60°	2133.2	2146.1	2182.0	1858.6	1478.1	1444.2	1397.4	1346.7	1424.1	1861.2	2433.8
62.5°	1876.2	1860.6	1988.1	1690.8	1043.5	873.7	865.9	897.1	1098.8	1775.4	2282.8
65°	1363.6	1383.1	1475.5	1312.2	783.3	666.8	655.1	747.5	889.3	1422.8	1742.2
67.5°	832.7	870.4	878.9	809.3	531.5	422.2	405.3	489.2	642.1	920.6	1021.4
70°	384.5	430.0	473.0	441.7	307.7	173.7	163.9	205.5	324.0	529.6	541.9
72.5°	116.5	117.1	163.9	171.1	99.6	39.0	34.5	45.5	109.9	175.0	184.1
75°	8.5	9.1	22.1	25.4	18.8	9.8	10.4	12.4	23.4	39.0	29.3
77.5°	0.7	0.7	0.7	3.3	5.9	6.5	8.5	9.8	12.4	14.3	13.0
80°	0.7	0.0	0.7	2.6	4.5	6.5	7.8	9.1	9.8	11.1	9.8
82.5°	0.0	0.0	0.0	1.9	4.5	6.5	7.1	9.8	11.1	13.0	11.1
85°	0.0	0.0	0.0	1.9	4.5	7.1	6.5	3.3	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°	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1
2.5°	1773.4	1748.0	1690.2	1660.9	1591.9	1582.2	1514.5	1503.5	1480.7	1468.3	1438.4
5°	1622.5	1591.9	1497.6	1418.2	1325.8	1261.4	1212.0	1167.1	1141.1	1117.0	1128.0
7.5°	1499.5	1410.4	1305.7	1172.9	1066.2	997.3	921.8	860.0	823.6	798.9	804.8
10°	1370.7	1312.8	1167.1	1018.1	889.3	840.5	781.3	733.9	682.5	638.2	617.4
12.5°	1330.4	1244.5	1061.7	910.1	812.6	765.1	697.4	642.8	577.0	523.0	504.2
15°	1337.5	1254.9	1033.1	871.1	756.0	674.0	593.3	525.6	453.5	415.7	396.2
17.5°	1454.0	1310.9	1051.9	830.2	677.3	563.4	463.8	377.9	324.0	284.9	276.5
20°	1597.1	1431.9	1092.3	800.2	612.8	448.3	338.9	264.7	219.9	213.4	211.4
22.5°	1806.6	1629.6	1178.8	780.0	534.1	349.4	232.3	192.6	180.2	178.9	179.6
25°	2099.3	1877.5	1273.1	763.1	474.9	269.4	190.0	163.3	159.4	157.4	160.7
27.5°	2226.2	2027.1	1323.2	726.7	420.9	242.6	187.4	162.0	151.0	147.7	149.6
30°	2383.0	2126.6	1401.9	664.2	341.5	199.7	175.0	176.3	171.1	154.8	149.6
32.5°	2591.2	2250.9	1441.6	620.0	305.1	165.3	128.2	117.7	131.4	134.1	138.6
35°	2724.5	2377.2	1461.8	594.0	286.3	141.2	108.7	98.9	95.6	96.3	98.9
37.5°	2972.4	2547.6	1487.1	566.7	271.9	123.0	98.2	89.1	84.6	84.6	87.2
40°	3120.7	2682.9	1521.6	551.7	257.6	111.9	89.1	81.3	77.5	77.5	78.7
42.5°	3157.8	2749.9	1509.9	546.5	241.4	109.3	81.3	75.4	70.9	70.2	69.6
45°	3224.1	2852.0	1511.9	540.6	224.5	99.6	76.8	70.2	63.7	63.1	62.5
47.5°	3297.1	2925.6	1515.8	517.8	208.1	83.3	80.0	65.1	57.3	55.9	55.9
50°	3234.6	2984.1	1549.6	495.1	187.4	67.6	78.7	61.1	50.7	48.8	49.5
52.5°	3242.4	3053.1	1621.2	463.2	161.3	54.0	63.7	57.9	46.2	43.0	43.6
55°	3117.5	2980.2	1631.0	429.3	126.2	41.6	48.8	50.7	39.0	37.8	37.8
57.5°	2683.5	2523.5	1439.0	348.0	83.3	34.5	35.2	44.2	33.8	32.5	33.2
60°	2296.4	2025.8	1158.0	229.7	52.1	27.3	25.4	44.9	29.9	29.3	31.2
62.5°	2093.5	1664.8	878.3	142.5	35.7	20.9	17.6	36.4	26.0	26.0	28.6
65°	1512.5	1118.3	510.7	74.8	25.4	16.2	13.0	20.9	21.4	22.1	23.4
67.5°	936.8	564.6	215.3	36.4	16.9	11.1	8.5	13.0	14.3	14.3	15.6
70°	462.6	225.1	71.6	20.9	13.0	9.1	5.9	7.1	7.1	6.5	7.1
72.5°	143.1	67.6	18.2	13.0	9.1	5.9	3.3	2.6	1.3	0.0	0.7
75°	16.2	13.0	11.7	9.1	5.9	2.6	0.7	0.0	0.0	0.0	0.0
77.5°	9.8	11.1	11.1	9.1	5.9	1.9	0.0	0.0	0.0	0.0	0.0
80°	7.8	8.5	9.1	8.5	5.2	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	9.8	11.1	12.4	11.1	7.1	3.3	1.3	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	1.9	0.7	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°	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1
2.5°	1426.0	1411.7	1431.9	1401.9	1401.3	1401.9	1393.5	1385.7	1398.1	1431.2	1434.5
5°	1088.4	1119.0	1128.7	1160.6	1143.0	1117.0	1122.2	1104.7	1147.5	1166.5	1151.5
7.5°	792.4	790.5	856.1	860.0	868.5	869.2	867.8	833.3	798.2	806.0	829.5
10°	614.8	581.6	613.5	610.2	631.0	625.2	633.6	596.5	608.9	608.9	623.9
12.5°	500.9	465.8	459.9	451.4	459.9	463.2	466.4	459.3	480.1	489.9	500.3
15°	382.5	363.0	357.8	341.5	344.1	353.2	361.0	364.3	357.8	372.7	374.1
17.5°	277.8	277.1	280.4	279.7	277.1	275.2	274.5	266.1	263.5	264.7	270.0
20°	210.8	216.0	227.1	238.1	244.0	236.8	227.1	212.8	206.9	208.1	208.8
22.5°	180.2	188.0	202.9	215.3	221.2	208.1	190.7	178.3	175.7	175.0	174.3
25°	163.3	172.4	183.4	187.4	186.7	178.9	165.9	160.7	159.4	158.1	152.2
27.5°	154.2	157.4	159.4	163.9	165.9	160.7	157.4	149.6	148.4	148.4	144.4
30°	148.9	147.0	149.6	146.3	148.9	145.1	145.7	145.7	142.5	143.8	143.8
32.5°	138.6	139.2	139.2	132.7	134.6	130.1	134.6	138.6	139.2	139.9	145.1
35°	101.5	113.2	119.1	119.1	121.0	117.7	117.1	112.5	106.7	100.8	98.2
37.5°	89.1	93.7	101.5	106.1	109.3	106.7	100.8	93.7	90.4	87.8	85.2
40°	79.4	83.3	88.5	93.7	100.2	97.0	87.8	84.6	80.7	80.7	78.0
42.5°	71.6	73.5	76.8	84.6	91.8	85.2	78.7	76.1	74.2	73.5	72.8
45°	64.4	65.1	68.3	74.8	83.3	76.8	70.2	67.0	67.6	68.3	67.6
47.5°	57.9	59.2	61.1	69.0	74.2	70.9	63.7	61.8	61.8	61.8	62.5
50°	50.1	53.3	57.3	63.7	67.6	65.7	59.9	57.3	55.9	55.9	56.6
52.5°	44.9	47.5	52.7	60.5	65.7	62.5	56.6	52.7	50.1	49.5	50.7
55°	39.0	43.6	52.1	57.9	65.1	61.8	55.3	50.7	46.2	45.5	45.5
57.5°	35.2	42.3	50.1	57.3	63.1	60.5	55.3	49.5	43.6	43.0	43.0
60°	33.2	41.0	48.8	55.3	63.1	59.2	54.7	48.1	41.6	41.6	41.0
62.5°	31.2	38.3	46.2	52.7	60.5	57.3	52.7	46.2	39.7	39.7	38.3
65°	26.0	33.2	38.3	44.2	52.7	49.5	44.9	40.4	35.2	33.8	34.5
67.5°	18.2	22.8	28.0	33.8	39.0	37.8	35.7	32.5	28.0	27.3	26.7
70°	9.1	12.4	16.9	22.8	27.3	26.0	24.7	22.1	19.5	18.8	18.8
72.5°	1.3	3.9	7.1	10.4	14.3	15.0	14.3	13.6	13.0	12.4	13.0
75°	0.0	0.0	0.0	2.6	5.9	7.1	8.5	9.8	9.8	8.5	10.4
77.5°	0.0	0.0	0.0	0.0	0.7	3.3	6.5	8.5	10.4	9.1	12.4
80°	0.0	0.0	0.0	0.0	0.7	3.9	6.5	9.1	10.4	9.1	13.0
82.5°	0.0	0.0	0.0	0.0	0.7	4.5	6.5	8.5	9.8	9.1	11.7
85°	0.0	0.0	0.0	0.0	1.9	3.9	2.6	1.3	0.7	0.7	1.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1
2.5°	1452.7	1498.9	1548.4	1567.2	1625.7	1670.0	1699.9	1764.3	1774.1	1774.7
5°	1167.1	1190.5	1275.1	1314.7	1401.9	1469.6	1541.8	1645.9	1715.6	1720.7
7.5°	829.5	894.5	930.3	1033.8	1141.1	1247.1	1354.4	1475.5	1556.1	1558.1
10°	667.5	709.7	773.6	850.9	941.3	1049.3	1192.5	1333.0	1415.0	1435.2
12.5°	537.4	611.5	684.4	764.4	833.3	914.7	1068.8	1256.2	1323.9	1364.2
15°	413.8	481.4	567.3	660.9	739.1	847.6	1023.3	1237.4	1351.2	1364.9
17.5°	305.1	365.6	445.0	533.4	650.6	804.8	1031.2	1333.0	1440.3	1463.1
20°	219.2	254.4	316.8	419.6	568.6	754.6	1039.0	1430.0	1593.2	1632.2
22.5°	173.7	188.0	229.0	320.1	476.8	702.0	1094.2	1615.3	1803.4	1860.0
25°	151.0	158.7	178.3	252.4	419.0	696.8	1182.7	1837.8	2083.1	2124.0
27.5°	145.7	147.0	163.9	231.6	387.7	662.3	1216.5	1995.9	2257.4	2299.0
30°	153.6	174.3	175.7	195.8	329.8	594.0	1234.1	2148.8	2405.1	2435.7
32.5°	132.7	126.2	130.8	151.5	290.1	554.3	1267.3	2282.1	2573.6	2595.1
35°	92.3	97.0	107.3	131.4	253.7	512.7	1275.7	2429.1	2733.7	2755.8
37.5°	85.2	87.8	96.3	111.9	223.1	489.2	1264.0	2536.5	2899.5	2930.1
40°	79.4	82.6	87.2	101.5	200.4	463.2	1247.8	2633.4	3001.0	3076.5
42.5°	74.8	77.5	81.3	97.0	180.8	437.2	1225.0	2770.1	3092.1	3157.8
45°	69.6	73.5	78.0	94.4	169.8	419.6	1208.1	2761.6	3144.8	3179.9
47.5°	64.4	70.9	76.1	87.8	166.5	411.2	1215.2	2729.7	3101.9	3077.8
50°	59.2	67.6	76.8	72.8	158.7	394.3	1223.7	2773.3	2999.7	2995.1
52.5°	54.7	64.4	71.6	59.9	141.2	377.9	1305.7	2830.6	3071.9	3011.5
55°	48.1	57.9	57.3	48.1	114.5	365.6	1370.1	2831.9	3023.1	3045.9
57.5°	43.6	51.4	44.9	40.4	84.6	305.8	1265.4	2374.6	2587.9	2628.2
60°	40.4	50.1	33.8	31.9	55.3	220.5	1104.7	1839.1	2057.1	2133.2
62.5°	37.1	47.5	26.7	26.0	38.3	156.8	908.2	1539.2	1772.7	1876.2
65°	32.5	33.8	21.4	20.2	27.3	84.6	553.0	1059.7	1325.2	1363.6
67.5°	26.7	26.0	17.6	16.2	18.2	41.0	244.0	530.8	768.3	832.7
70°	21.4	21.4	15.0	13.0	13.0	18.8	63.7	211.4	347.4	384.5
72.5°	15.6	16.2	11.7	10.4	9.8	9.1	10.4	42.3	91.1	116.5
75°	13.6	14.3	11.7	9.1	7.1	5.9	4.5	3.9	5.2	8.5
77.5°	15.0	15.0	12.4	8.5	6.5	4.5	2.6	1.3	1.3	0.7
80°	18.8	19.5	16.2	11.1	7.8	5.2	3.3	1.3	0.7	0.7
82.5°	20.2	22.1	18.2	13.6	9.8	5.9	3.3	0.7	0.0	0.0
85°	5.2	8.5	14.3	12.4	9.8	5.9	3.3	0.7	0.0	0.0
87.5°	0.0	0.7	1.9	1.9	2.6	2.6	1.9	0.7	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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