

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: P646732

Luminaire Tested: **GALN-SA1C-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4801.4 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

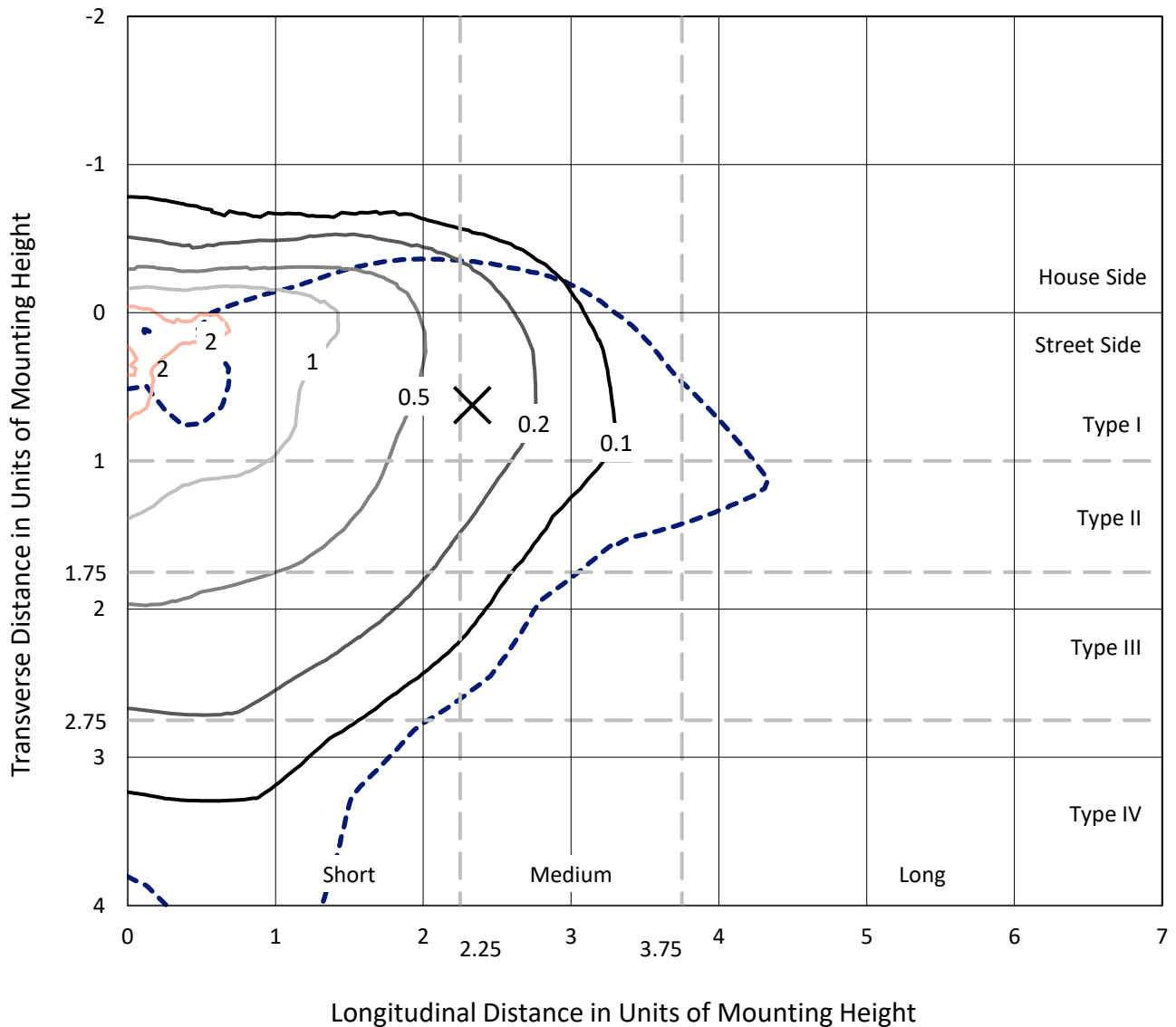
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

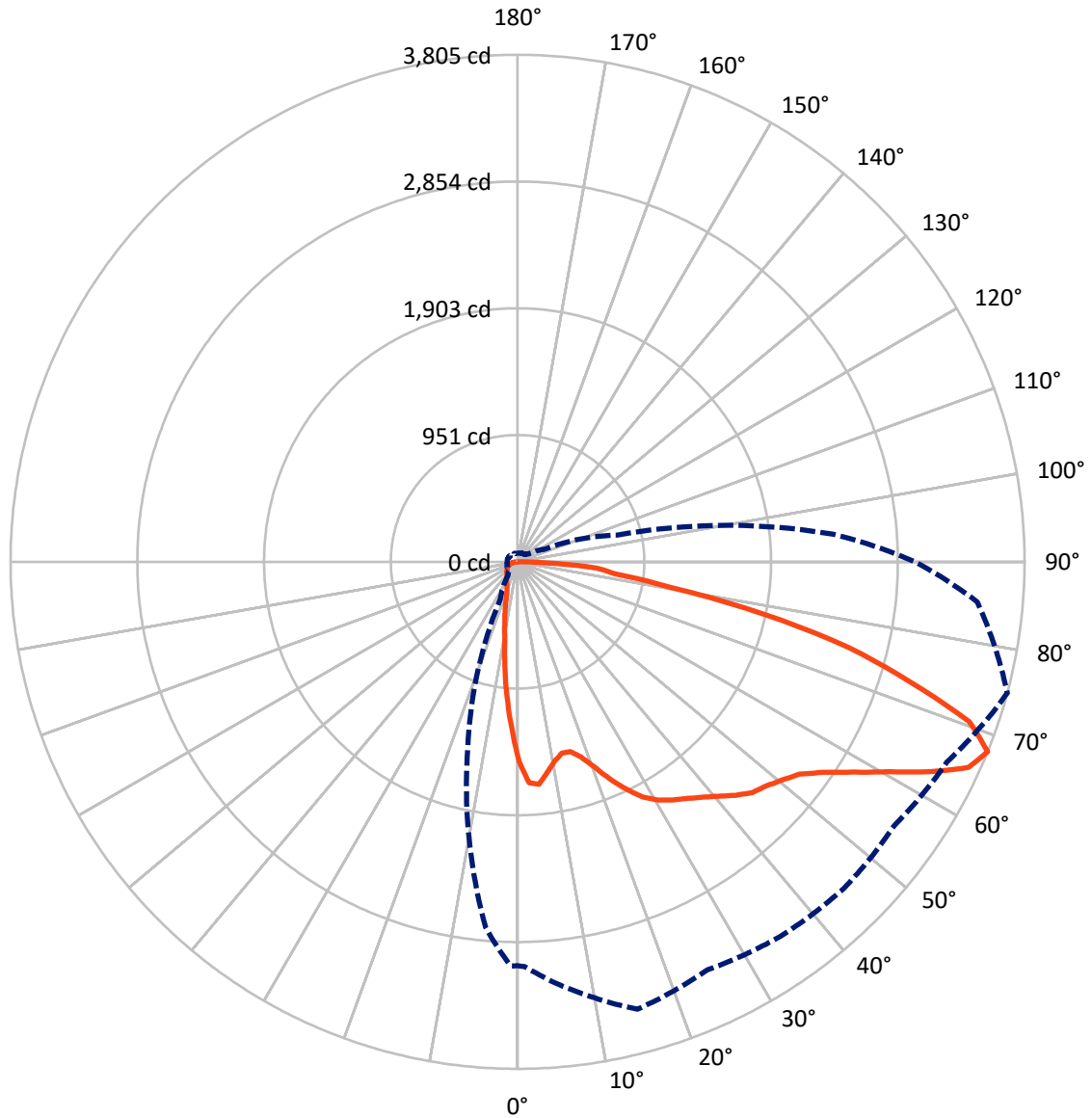
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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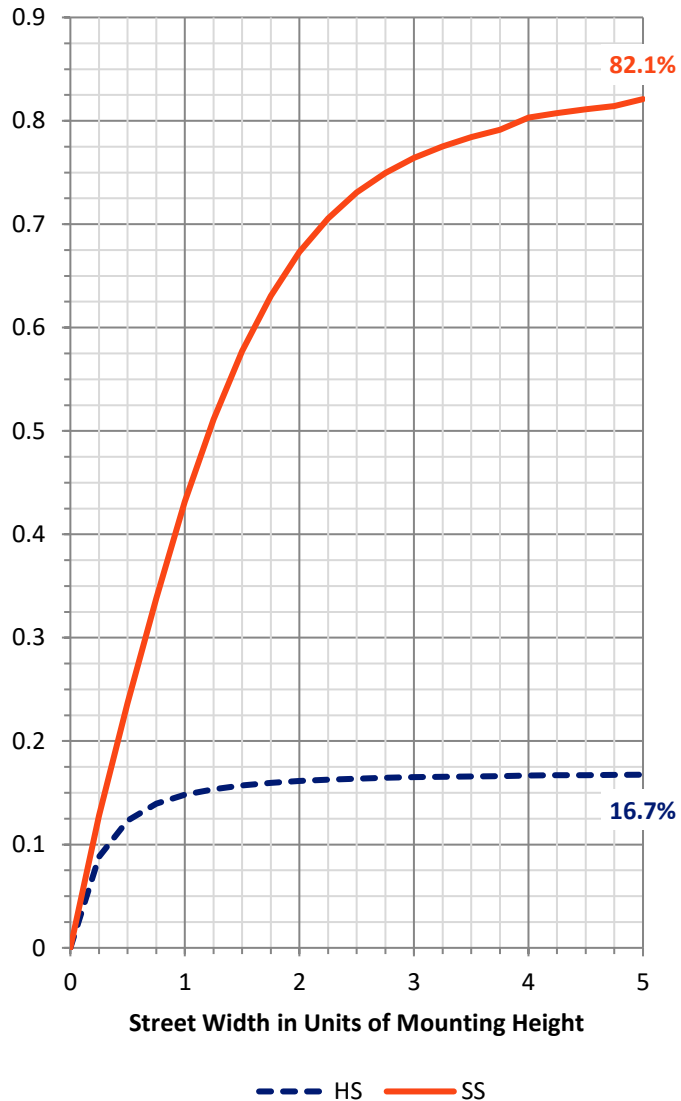
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	811.5	0.0	811.5
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	3989.8	0.0	3989.8
	% Fixture	83.1	0.0	83.1
Total	Lumens	4801.4	0.0	4801.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	2.4
10°-20°	237.3	4.9
20°-30°	341.5	7.1
30°-40°	491.8	10.2
40°-50°	690.8	14.4
50°-60°	963.5	20.1
60°-70°	1145.5	23.9
70°-80°	674.6	14.1
80°-90°	142.7	3.0
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°	4801.4	100.0
0°-180°	4801.4	100.0

Coefficient of Utilization

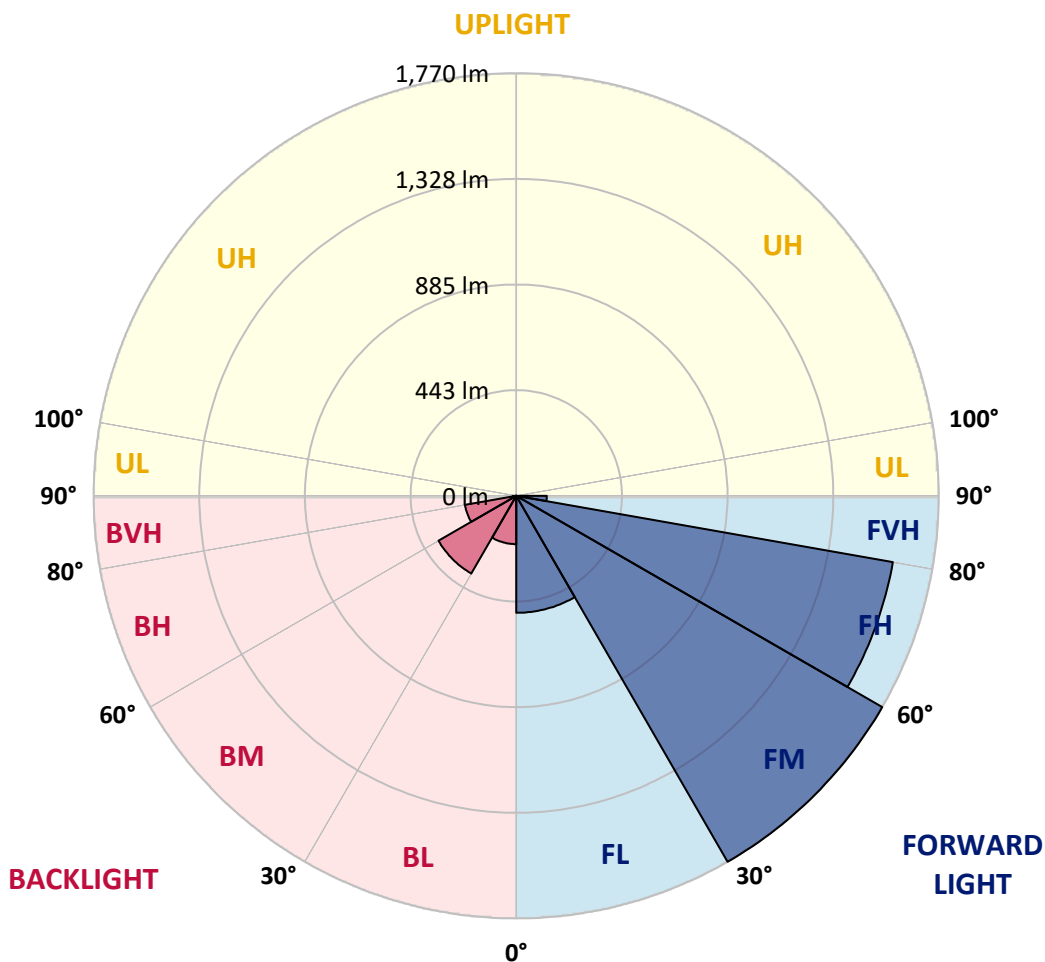


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	490.1	10.2			
FM (30°-60°)	1770.1	36.9			
FH (60°-80°)	1601.7	33.4			G1/1800
FVH (80°-90°)	127.9	2.7			G2/225
BL (0°-30°)	202.4	4.2	B1/500		
BM (30°-60°)	376.0	7.8	B1/1000		
BH (60°-80°)	218.4	4.5	B1/500		G1/500
BVH (80°-90°)	14.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1
2.5°	1617.4	1619.6	1633.3	1673.7	1701.4	1711.6	1718.7	1705.5	1692.5	1661.1	1613.7
5°	1612.4	1625.0	1661.1	1751.6	1823.1	1853.8	1863.1	1823.4	1757.8	1677.1	1580.1
7.5°	1518.2	1535.1	1590.6	1742.3	1868.3	1940.4	1930.8	1859.1	1740.8	1597.0	1461.5
10°	1406.4	1425.2	1492.1	1675.5	1837.8	1937.0	1937.0	1849.5	1692.5	1521.6	1365.5
12.5°	1317.8	1337.5	1413.9	1606.9	1774.4	1868.3	1884.0	1808.9	1657.7	1473.9	1302.4
15°	1288.5	1307.6	1389.8	1565.3	1707.3	1764.6	1769.7	1745.2	1640.8	1477.3	1299.6
17.5°	1324.8	1349.5	1432.7	1577.7	1645.7	1649.1	1653.1	1672.5	1642.6	1539.1	1355.7
20°	1429.8	1456.3	1543.1	1617.4	1591.8	1556.7	1558.9	1608.8	1664.5	1641.4	1489.6
22.5°	1581.3	1604.4	1693.4	1687.3	1569.1	1496.7	1481.6	1551.2	1696.8	1768.9	1632.2
25°	1744.8	1771.9	1874.1	1791.0	1575.5	1460.9	1451.4	1517.3	1730.4	1888.0	1796.8
27.5°	1932.1	1958.5	2039.2	1895.7	1609.4	1458.2	1446.8	1514.2	1760.5	1998.2	1954.2
30°	2071.2	2095.5	2150.4	1983.7	1651.0	1476.7	1462.5	1538.5	1786.4	2073.7	2107.5
32.5°	2180.5	2205.7	2235.6	2038.5	1705.8	1510.3	1484.0	1582.9	1820.2	2131.2	2221.1
35°	2294.4	2324.3	2322.1	2087.2	1756.8	1549.0	1523.5	1646.9	1873.6	2181.4	2365.2
37.5°	2438.8	2450.9	2435.4	2130.9	1818.1	1618.9	1604.8	1742.1	1949.3	2242.0	2533.6
40°	2585.4	2609.4	2530.3	2183.9	1892.6	1750.4	1748.8	1882.8	2039.2	2313.2	2696.8
42.5°	2711.0	2731.3	2619.0	2230.1	1982.9	1910.8	1922.5	2071.5	2157.1	2395.7	2828.0
45°	2805.5	2823.7	2700.9	2274.7	2101.7	2096.2	2165.1	2273.8	2305.8	2469.9	2905.0
47.5°	2885.9	2903.4	2757.8	2342.4	2248.5	2317.5	2437.6	2484.7	2432.9	2512.4	2991.2
50°	2953.6	2958.9	2796.9	2423.2	2430.8	2588.8	2705.2	2735.6	2558.6	2573.4	3066.0
52.5°	3024.1	3017.4	2864.4	2524.7	2627.9	2846.2	2930.8	2962.6	2679.0	2648.5	3175.0
55°	3182.1	3188.5	3015.5	2652.8	2827.1	3099.0	3210.4	3179.9	2812.3	2786.8	3313.6
57.5°	3373.0	3367.4	3228.2	2853.3	3030.0	3334.2	3417.3	3368.4	2990.3	2976.7	3454.0
60°	3447.2	3454.6	3406.2	3068.8	3230.1	3540.2	3625.1	3549.1	3203.6	3197.5	3559.8
62.5°	3372.7	3414.2	3446.8	3260.6	3400.6	3691.6	3776.0	3689.2	3426.3	3470.9	3634.1
65°	3224.2	3233.2	3344.3	3423.2	3482.9	3716.6	3760.6	3714.4	3612.2	3720.0	3630.7
67.5°	3031.5	3039.2	3169.4	3476.4	3377.0	3433.3	3464.1	3450.5	3554.7	3805.2	3463.5
70°	2848.0	2841.8	2979.5	3340.7	2939.8	2854.2	2879.7	2837.2	3067.2	3596.8	3135.6
72.5°	2490.9	2513.0	2660.8	2963.2	2327.7	2188.5	2244.2	2134.3	2359.1	3080.5	2545.1
75°	1951.2	1956.3	2203.0	2486.9	1756.0	1536.4	1611.8	1565.9	1807.0	2569.6	1757.4
77.5°	1351.1	1339.3	1604.4	1899.4	1252.2	1124.7	1126.0	1104.1	1261.7	1892.0	1194.0
80°	858.1	840.2	1004.4	1173.4	860.6	920.6	890.4	889.5	821.4	1167.2	722.0
82.5°	463.7	483.4	634.5	735.6	617.3	711.5	652.1	633.1	563.8	730.6	461.8
85°	211.3	229.7	338.4	500.3	468.9	474.2	316.8	373.8	466.4	593.3	246.6
87.5°	20.6	26.5	69.9	236.2	160.1	126.2	47.1	90.8	117.3	210.9	19.7
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°	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1
2.5°	1594.3	1578.3	1523.8	1478.8	1431.1	1394.8	1347.3	1315.6	1293.8	1260.8	1256.8
5°	1521.0	1481.9	1387.1	1290.4	1206.9	1144.1	1080.4	1021.9	987.4	976.6	962.8
7.5°	1397.5	1331.6	1209.7	1098.9	1003.1	909.5	837.5	786.4	752.1	732.2	708.1
10°	1295.9	1219.6	1071.1	935.4	856.5	798.3	734.9	680.1	638.0	602.0	582.2
12.5°	1227.6	1141.4	974.5	864.3	803.3	741.4	667.2	605.7	543.4	502.5	484.9
15°	1206.9	1115.8	944.6	828.9	741.4	660.5	577.3	497.0	435.3	396.6	383.7
17.5°	1257.4	1147.2	944.3	781.7	668.8	572.1	465.6	390.1	327.0	298.0	288.8
20°	1351.6	1207.5	947.1	735.2	589.9	453.8	338.6	276.8	246.6	234.3	229.7
22.5°	1483.2	1299.6	955.4	689.4	503.7	348.5	253.7	222.3	211.5	209.4	208.4
25°	1645.1	1413.5	983.4	648.1	431.0	266.0	212.1	197.9	191.8	189.6	189.3
27.5°	1794.1	1560.7	1017.3	612.7	360.9	229.4	191.8	179.8	173.7	173.4	174.0
30°	1928.6	1683.8	1045.6	573.0	307.6	203.8	178.6	166.5	160.7	160.4	162.2
32.5°	2045.0	1785.2	1066.5	533.8	278.0	188.2	166.5	153.6	148.7	147.8	148.7
35°	2169.4	1886.2	1057.0	503.4	261.1	175.2	157.6	145.0	139.1	136.4	136.4
37.5°	2311.3	1990.2	1040.7	478.2	253.4	164.4	149.9	137.7	131.8	129.0	128.7
40°	2466.2	2094.3	1018.2	455.7	245.7	157.9	144.7	131.8	124.7	121.9	121.3
42.5°	2602.9	2183.2	999.7	440.9	233.1	159.2	140.1	127.5	118.5	114.9	114.6
45°	2721.8	2272.9	996.4	432.3	222.6	157.3	138.8	124.1	113.6	109.6	109.0
47.5°	2814.7	2366.1	1015.7	427.4	211.3	147.5	146.9	121.9	109.3	105.0	104.4
50°	2928.0	2498.6	1060.1	417.2	200.8	138.3	155.2	121.6	105.9	100.4	98.8
52.5°	3078.9	2671.0	1120.1	399.0	185.6	129.6	148.1	121.6	101.9	96.4	94.5
55°	3307.1	2890.8	1179.0	373.5	164.4	118.2	133.7	117.9	96.1	91.1	89.9
57.5°	3458.3	3051.5	1216.5	338.1	138.0	109.9	115.2	112.0	90.2	85.0	85.0
60°	3465.9	3094.7	1198.6	293.4	121.3	102.2	100.1	113.0	85.0	79.5	78.8
62.5°	3377.3	2989.0	1105.7	253.4	112.4	93.9	90.5	99.1	79.7	74.2	73.3
65°	3238.7	2719.6	944.3	234.3	107.4	86.5	81.6	81.3	74.2	69.0	67.7
67.5°	2984.1	2376.6	775.9	223.2	105.0	78.2	73.6	72.0	67.7	63.4	62.8
70°	2608.8	1990.5	622.3	218.6	103.7	69.6	65.9	64.0	60.4	56.9	56.7
72.5°	2029.6	1614.6	513.6	215.6	103.1	61.5	57.6	55.1	52.9	49.9	49.9
75°	1457.9	1187.9	392.0	194.3	95.4	52.9	48.6	47.1	44.0	41.6	42.2
77.5°	919.1	799.9	258.0	142.9	73.9	42.5	38.8	37.9	35.4	32.0	34.1
80°	620.7	562.5	150.6	89.9	46.5	31.1	29.8	29.5	26.8	23.1	23.4
82.5°	422.4	414.4	78.2	51.1	26.8	18.2	17.5	18.2	15.1	12.3	12.3
85°	165.1	225.3	37.0	20.0	8.6	2.7	4.0	4.3	2.4	1.3	1.6
87.5°	3.1	23.1	0.9	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°	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1
2.5°	1250.7	1247.9	1252.5	1232.8	1236.8	1244.2	1247.9	1250.1	1280.5	1273.5	1292.8
5°	975.7	973.0	990.8	993.2	1002.5	1000.7	1009.6	1011.7	1022.8	1026.8	1053.9
7.5°	709.7	721.7	742.0	752.5	768.2	773.1	768.5	779.9	756.8	773.4	778.4
10°	570.2	555.8	547.2	571.1	574.3	597.0	587.8	580.4	593.9	594.5	607.5
12.5°	474.7	443.6	423.1	429.8	437.2	447.1	448.6	463.4	473.2	482.5	490.2
15°	372.2	361.4	342.7	333.5	343.9	347.9	357.4	369.8	380.2	383.0	393.5
17.5°	285.7	287.6	284.5	279.0	285.4	288.5	289.1	289.4	292.2	290.3	305.8
20°	230.0	236.5	244.1	245.4	247.6	249.1	246.3	235.8	236.2	242.7	247.6
22.5°	208.1	209.4	218.0	220.7	227.5	224.8	216.7	211.8	211.3	212.7	215.2
25°	190.9	192.8	198.9	203.2	208.4	203.5	197.6	193.1	192.5	193.9	196.5
27.5°	175.5	178.3	183.8	188.2	193.1	188.5	182.9	178.9	178.6	178.3	179.8
30°	163.2	166.2	170.3	175.2	178.6	174.6	169.4	167.2	166.9	166.2	166.9
32.5°	150.9	155.8	159.8	162.2	165.7	162.6	158.6	157.3	155.2	153.3	152.4
35°	137.0	142.3	148.4	151.5	154.9	151.8	149.0	143.8	140.1	139.8	140.4
37.5°	129.0	131.2	136.1	141.3	144.7	143.1	138.0	132.7	131.8	131.8	132.4
40°	121.9	122.9	125.0	131.8	138.0	133.3	126.8	125.3	125.3	125.0	125.3
42.5°	114.9	115.8	115.8	121.0	130.8	123.5	118.5	118.5	118.5	118.9	119.8
45°	108.4	108.7	108.4	112.0	121.3	115.2	111.7	112.7	113.3	113.9	114.6
47.5°	102.8	103.1	102.8	105.9	110.6	108.1	106.3	107.4	108.7	109.6	110.2
50°	97.9	97.6	98.2	100.1	102.2	102.8	101.6	103.4	104.1	105.3	106.8
52.5°	93.6	93.3	93.9	94.8	97.9	97.9	97.9	99.4	100.7	101.9	104.1
55°	88.6	88.9	89.9	91.1	95.1	94.5	94.8	96.1	97.3	99.1	100.4
57.5°	84.0	84.6	85.9	87.8	91.8	91.5	91.8	92.4	93.9	94.8	96.1
60°	78.8	80.0	81.6	82.8	86.8	86.5	88.1	89.3	90.2	90.2	90.8
62.5°	73.6	75.4	77.0	77.9	82.2	82.5	84.6	85.6	86.2	85.6	86.5
65°	68.4	71.1	71.7	73.0	77.3	77.6	80.0	82.2	81.6	81.0	82.5
67.5°	63.1	66.5	66.2	67.7	72.0	72.7	74.9	78.5	77.3	76.7	77.9
70°	57.2	59.7	60.1	61.0	66.8	65.9	69.3	72.7	71.7	72.0	72.0
72.5°	50.8	52.9	52.9	54.8	61.0	59.4	62.2	65.9	65.9	65.6	65.6
75°	43.1	44.3	45.6	48.3	54.8	52.9	54.8	58.2	58.8	58.2	58.2
77.5°	34.8	36.6	37.3	41.0	45.6	45.3	47.1	48.6	49.9	49.3	49.3
80°	24.7	26.5	29.0	33.0	35.7	36.6	37.6	38.8	39.4	39.4	40.0
82.5°	13.9	16.6	18.8	22.8	24.0	28.7	28.3	29.3	28.3	25.0	27.7
85°	3.1	5.9	8.3	10.5	12.0	16.6	17.5	19.7	16.3	15.1	15.1
87.5°	0.0	0.0	0.0	0.0	0.0	2.4	4.9	6.8	5.9	4.9	4.9
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°	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1
2.5°	1309.2	1336.0	1368.3	1424.0	1463.1	1505.3	1547.8	1593.0	1605.1	1617.4
5°	1061.3	1114.0	1142.6	1217.4	1295.9	1395.7	1477.3	1566.5	1603.8	1612.4
7.5°	803.9	839.6	914.8	990.5	1087.8	1192.5	1317.5	1456.6	1500.1	1518.2
10°	637.4	686.0	751.9	833.2	918.5	1031.1	1172.2	1334.7	1396.3	1406.4
12.5°	542.5	596.7	668.4	754.3	835.0	919.9	1062.2	1230.0	1295.9	1317.8
15°	433.9	499.4	582.2	672.8	760.5	853.5	997.5	1186.9	1263.0	1288.5
17.5°	340.8	393.8	483.4	581.6	685.7	803.3	984.0	1207.5	1301.2	1324.8
20°	260.8	298.6	374.1	477.9	599.8	753.7	987.4	1285.5	1397.5	1429.8
22.5°	225.3	244.8	290.6	389.5	525.9	710.7	1001.3	1392.3	1527.5	1581.3
25°	204.1	214.3	240.1	304.8	455.4	668.8	1033.0	1536.1	1709.1	1744.8
27.5°	186.0	193.3	209.4	255.9	391.3	629.9	1069.9	1695.6	1878.7	1932.1
30°	168.7	178.6	193.6	227.2	350.4	594.5	1116.4	1824.9	2021.6	2071.2
32.5°	155.5	165.4	179.2	207.2	315.6	557.3	1144.1	1938.5	2138.3	2180.5
35°	144.7	153.0	167.5	191.2	289.1	529.0	1138.6	2028.7	2251.3	2294.4
37.5°	137.0	144.1	158.6	176.1	269.1	499.4	1135.8	2147.8	2388.9	2438.8
40°	129.9	137.3	150.6	166.2	249.1	464.6	1137.4	2266.1	2535.5	2585.4
42.5°	124.4	132.7	143.4	163.5	228.5	436.6	1137.4	2369.0	2663.0	2711.0
45°	119.8	128.7	139.1	163.2	212.1	415.4	1129.6	2457.3	2764.5	2805.5
47.5°	115.8	125.6	140.7	157.6	208.1	400.0	1122.9	2528.2	2847.4	2885.9
50°	113.0	124.7	149.6	151.2	209.4	395.3	1155.6	2617.4	2920.4	2953.6
52.5°	110.9	125.0	149.3	141.6	207.2	398.4	1223.6	2756.9	3021.7	3024.1
55°	106.6	124.7	141.6	130.8	198.3	403.6	1311.0	2959.5	3180.2	3182.1
57.5°	102.2	121.3	131.5	121.6	180.1	403.6	1416.3	3151.3	3371.4	3373.0
60°	97.9	126.2	115.5	113.6	156.4	396.3	1527.5	3235.7	3431.5	3447.2
62.5°	93.6	127.2	103.1	106.6	139.1	378.4	1610.3	3142.3	3350.2	3372.7
65°	88.6	102.5	95.1	99.1	130.2	348.5	1584.1	2971.5	3197.5	3224.2
67.5°	82.8	86.8	86.5	91.5	127.2	304.5	1446.2	2755.4	3033.0	3031.5
70°	75.7	77.9	78.8	84.0	121.3	270.3	1205.1	2474.8	2813.6	2848.0
72.5°	68.4	70.2	71.1	75.7	115.5	251.0	935.4	2088.4	2437.0	2490.9
75°	60.4	61.5	62.8	66.8	109.3	222.3	666.3	1594.3	1866.4	1951.2
77.5°	52.1	52.1	53.6	57.6	92.1	183.5	447.1	1118.3	1264.5	1351.1
80°	42.2	42.5	41.9	46.2	67.7	125.6	254.0	747.0	841.5	858.1
82.5°	32.3	31.4	31.7	33.9	50.5	85.6	135.5	464.0	472.9	463.7
85°	20.4	20.4	19.7	22.2	32.3	44.6	73.9	284.2	222.0	211.3
87.5°	8.3	6.8	7.7	8.9	15.4	18.2	29.0	58.5	22.5	20.6
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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