

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: P647224

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647224
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-SA1D-835-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA 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: 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

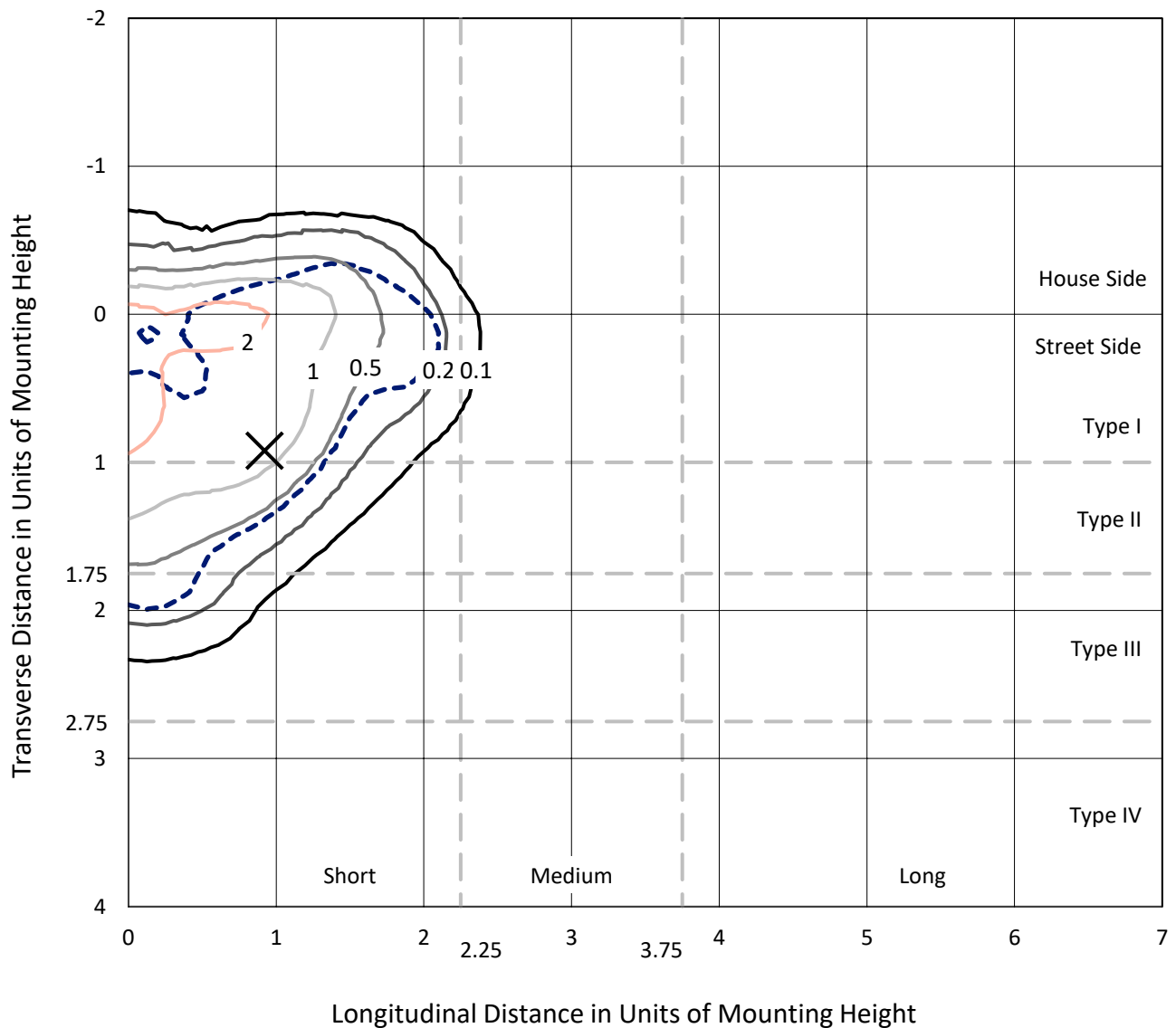
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

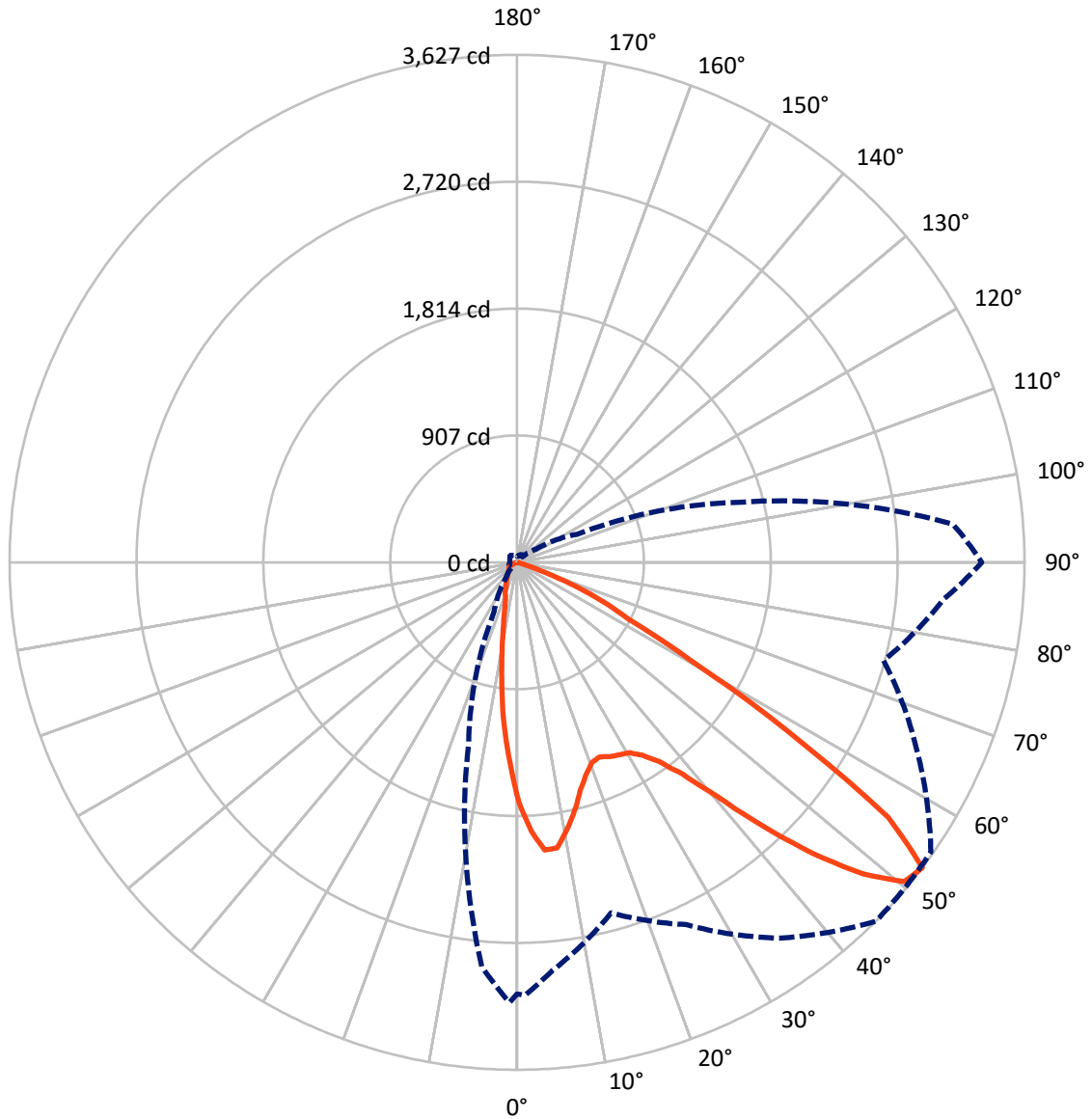
× Max cd
 - - - 1/2 Max cd



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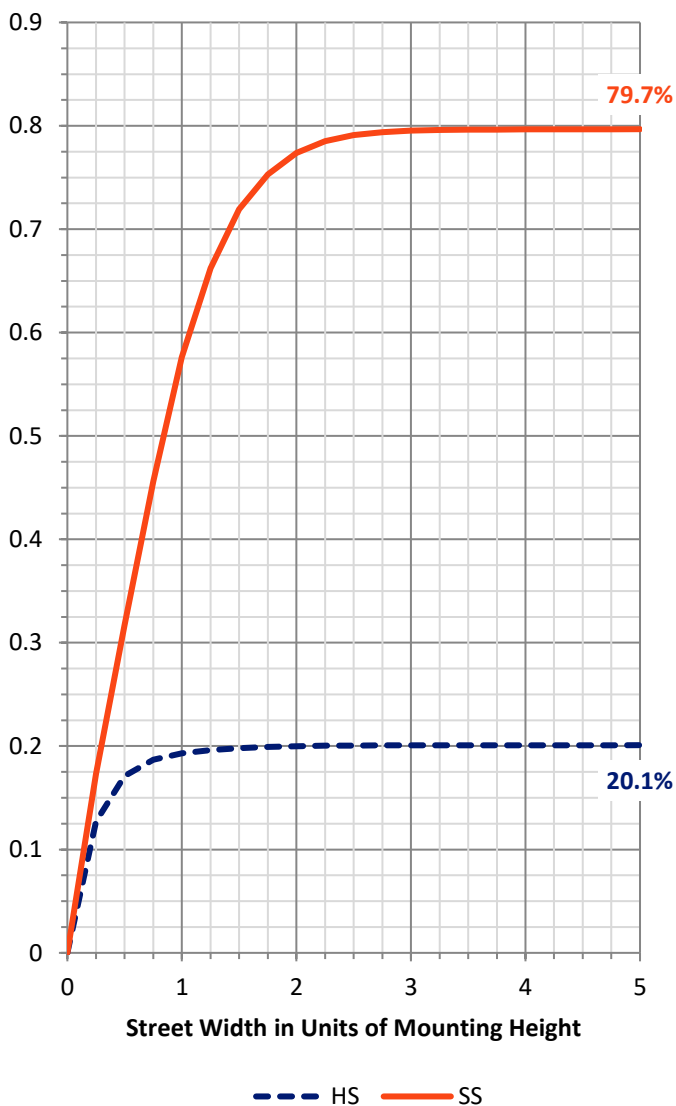
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	687.6	0.0	687.6
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	2700.4	0.0	2700.4
	% Fixture	79.7	0.0	79.7
Total	Lumens	3388.1	0.0	3388.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.3	3.7
10°-20°	247.2	7.3
20°-30°	376.2	11.1
30°-40°	562.2	16.6
40°-50°	800.7	23.6
50°-60°	860.7	25.4
60°-70°	381.4	11.3
70°-80°	30.9	0.9
80°-90°	3.6	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°	3388.1	100.0
0°-180°	3388.1	100.0

Coefficient of Utilization

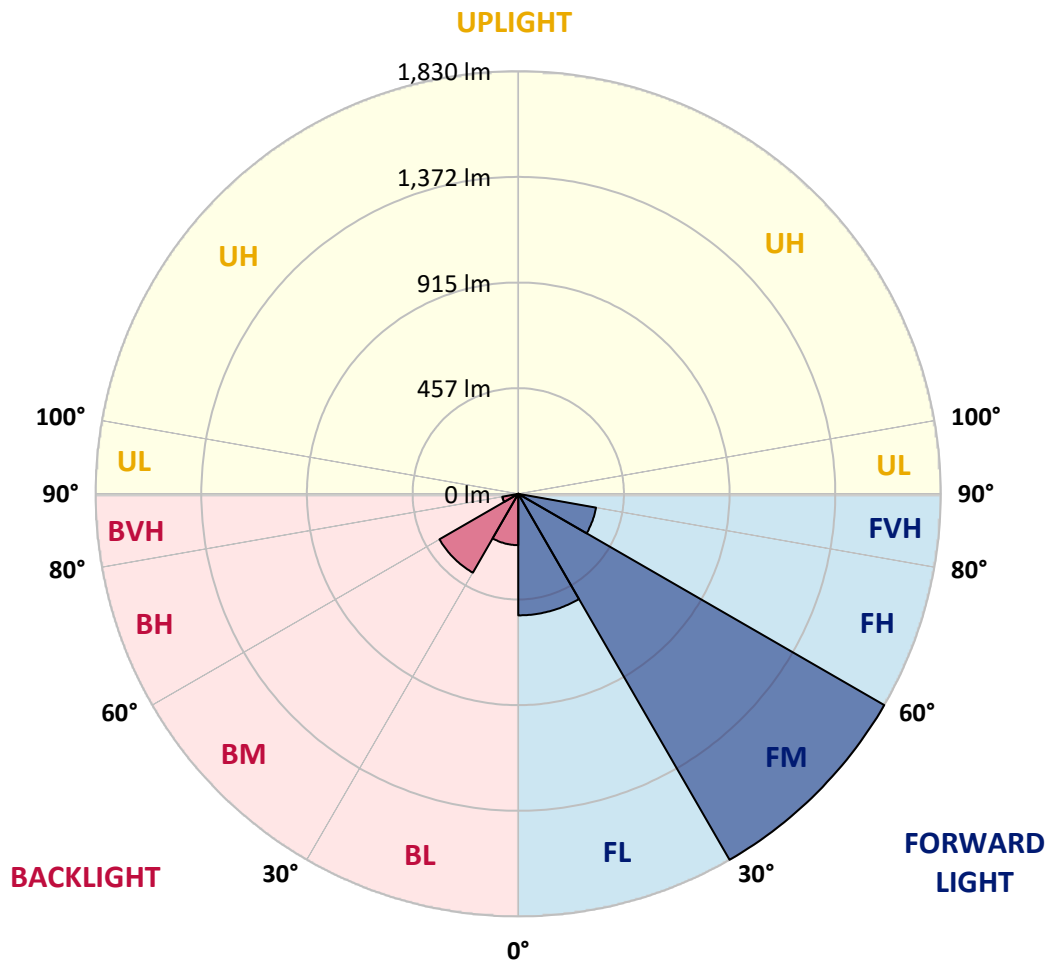


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	526.2	15.5			
FM (30°-60°)	1829.7	54.0			
FH (60°-80°)	341.9	10.1			G0/660
FVH (80°-90°)	2.7	0.1			G0/10
BL (0°-30°)	222.4	6.6	B1/500		
BM (30°-60°)	393.9	11.6	B1/1000		
BH (60°-80°)	70.4	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°	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9
2.5°	1817.8	1823.2	1852.5	1889.1	1908.5	1952.5	1921.8	1929.8	1913.1	1854.5	1808.5
5°	1762.5	1761.9	1799.2	1889.8	1975.7	2063.0	2065.7	2019.1	1937.1	1847.2	1718.5
7.5°	1595.9	1621.9	1660.6	1805.2	1964.5	2029.8	2061.1	2006.4	1880.5	1751.9	1612.6
10°	1470.0	1483.3	1548.6	1723.2	1839.8	1927.1	1946.5	1915.1	1818.5	1657.9	1502.0
12.5°	1397.3	1404.0	1480.7	1627.2	1750.6	1815.2	1824.5	1839.2	1769.9	1619.2	1432.0
15°	1398.0	1403.4	1506.6	1629.3	1677.9	1660.6	1691.2	1690.6	1720.6	1612.0	1490.7
17.5°	1498.7	1504.7	1597.9	1658.6	1637.3	1596.6	1594.6	1625.3	1688.5	1703.3	1579.3
20°	1671.9	1685.9	1754.5	1751.2	1631.3	1549.3	1526.6	1549.9	1697.2	1780.5	1757.9
22.5°	1905.1	1924.5	1972.5	1880.5	1658.6	1517.3	1510.0	1555.3	1754.5	1953.1	1960.5
25°	2175.7	2208.4	2231.6	2113.7	1755.9	1572.7	1538.0	1616.0	1831.8	2140.4	2218.3
27.5°	2355.0	2388.9	2383.6	2215.0	1821.2	1587.3	1557.9	1630.6	1899.2	2185.0	2352.9
30°	2494.9	2515.5	2552.8	2269.7	1886.5	1628.6	1578.6	1692.6	1921.2	2262.3	2515.5
32.5°	2658.1	2672.1	2674.8	2366.3	1987.1	1680.6	1642.6	1769.9	2018.4	2336.3	2659.5
35°	2822.7	2843.4	2800.1	2485.6	2049.1	1777.2	1749.2	1903.8	2096.4	2412.9	2818.1
37.5°	3001.3	3012.0	2912.1	2534.9	2137.7	1934.5	1919.1	2048.4	2231.6	2551.5	2994.0
40°	3151.3	3161.3	3031.3	2595.5	2231.0	2154.3	2193.7	2324.3	2415.6	2641.5	3082.0
42.5°	3234.6	3257.9	3071.3	2562.2	2418.2	2403.6	2578.2	2624.1	2628.8	2666.8	3160.6
45°	3257.2	3246.6	3005.3	2589.5	2582.2	2813.4	2972.0	3032.6	2840.7	2713.4	3180.5
47.5°	3152.6	3166.6	2908.1	2565.5	2797.4	3123.9	3329.2	3441.8	2998.7	2672.8	3131.3
50°	3068.0	3049.9	2876.7	2548.2	2855.4	3270.5	3587.1	3612.4	3143.9	2722.8	3077.3
52.5°	3084.6	3095.9	2926.7	2594.2	2856.7	3279.2	3627.0	3609.7	3148.6	2711.5	3057.9
55°	3119.9	3070.0	2905.3	2492.9	2665.5	3037.3	3219.2	3192.5	2906.0	2590.9	3010.6
57.5°	2692.1	2769.4	2671.4	2225.7	2187.7	2288.3	2285.0	2366.9	2167.7	2229.7	2740.7
60°	2185.0	2198.4	2235.0	1903.8	1514.0	1479.3	1431.3	1379.4	1458.7	1906.4	2492.9
62.5°	1921.8	1905.8	2036.4	1731.9	1068.9	895.0	886.9	918.9	1125.5	1818.5	2338.3
65°	1396.7	1416.7	1511.3	1344.1	802.3	683.0	671.0	765.6	910.9	1457.3	1784.5
67.5°	852.9	891.6	900.3	829.0	544.4	432.5	415.1	501.1	657.7	942.9	1046.2
70°	393.8	440.4	484.4	452.5	315.2	177.9	168.0	210.5	331.8	542.4	555.1
72.5°	119.3	120.0	168.0	175.2	101.9	40.0	35.3	46.7	112.6	179.2	188.5
75°	8.7	9.3	22.6	26.0	19.3	10.0	10.6	12.7	24.0	40.0	30.0
77.5°	0.7	0.7	0.7	3.4	6.0	6.7	8.7	10.0	12.7	14.6	13.3
80°	0.7	0.0	0.7	2.7	4.7	6.7	8.0	9.3	10.0	11.4	10.0
82.5°	0.0	0.0	0.0	2.0	4.7	6.7	7.4	10.0	11.4	13.3	11.4
85°	0.0	0.0	0.0	2.0	4.7	7.4	6.7	3.4	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°	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9
2.5°	1816.5	1790.6	1731.2	1701.2	1630.6	1620.6	1551.3	1540.0	1516.7	1504.0	1473.4
5°	1661.9	1630.6	1534.0	1452.7	1358.0	1292.1	1241.4	1195.5	1168.8	1144.1	1155.5
7.5°	1536.0	1444.7	1337.4	1201.4	1092.2	1021.5	944.2	881.0	843.6	818.3	824.3
10°	1404.0	1344.7	1195.5	1042.9	910.9	860.9	800.3	751.7	699.0	653.7	632.4
12.5°	1362.7	1274.7	1087.5	932.2	832.3	783.6	714.3	658.3	591.1	535.7	516.5
15°	1370.0	1285.5	1058.2	892.2	774.3	690.4	607.8	538.4	464.5	425.8	405.8
17.5°	1489.3	1342.8	1077.5	850.3	693.7	577.1	475.1	387.2	331.8	291.9	283.2
20°	1635.9	1466.6	1118.8	819.6	627.7	459.2	347.2	271.2	225.3	218.5	216.6
22.5°	1850.5	1669.3	1207.5	799.0	547.1	357.8	237.9	197.2	184.6	183.2	183.9
25°	2150.4	1923.1	1304.1	781.7	486.5	275.9	194.6	167.2	163.3	161.3	164.6
27.5°	2280.3	2076.4	1355.4	744.3	431.1	248.5	191.9	165.9	154.6	151.3	153.2
30°	2440.9	2178.4	1436.0	680.3	349.8	204.6	179.2	180.6	175.2	158.6	153.2
32.5°	2654.1	2305.6	1476.7	635.0	312.5	169.3	131.3	120.6	134.6	137.3	142.0
35°	2790.8	2434.9	1497.3	608.4	293.2	144.6	111.3	101.3	98.0	98.7	101.3
37.5°	3044.6	2609.5	1523.3	580.4	278.5	125.9	100.6	91.3	86.6	86.6	89.3
40°	3196.6	2748.1	1558.6	565.1	263.9	114.6	91.3	83.3	79.3	79.3	80.6
42.5°	3234.6	2816.8	1546.7	559.8	247.2	112.0	83.3	77.3	72.7	72.0	71.3
45°	3302.5	2921.4	1548.6	553.7	229.9	101.9	78.6	72.0	65.3	64.7	64.0
47.5°	3377.2	2996.6	1552.6	530.4	213.2	85.3	82.0	66.6	58.6	57.3	57.3
50°	3313.2	3056.6	1587.3	507.1	191.9	69.3	80.6	62.6	52.0	50.0	50.7
52.5°	3321.2	3127.2	1660.6	474.4	165.3	55.3	65.3	59.3	47.3	44.0	44.6
55°	3193.2	3052.6	1670.6	439.8	129.3	42.7	50.0	52.0	40.0	38.7	38.7
57.5°	2748.8	2584.8	1474.0	356.5	85.3	35.3	36.0	45.3	34.7	33.4	34.0
60°	2352.3	2075.0	1186.2	235.2	53.3	28.0	26.0	46.0	30.6	30.0	32.0
62.5°	2144.4	1705.2	899.6	146.0	36.6	21.3	18.0	37.3	26.6	26.6	29.3
65°	1549.3	1145.5	523.1	76.7	26.0	16.7	13.3	21.3	22.0	22.6	24.0
67.5°	959.6	578.4	220.6	37.3	17.3	11.4	8.7	13.3	14.6	14.6	16.0
70°	473.8	230.6	73.3	21.3	13.3	9.3	6.0	7.4	7.4	6.7	7.4
72.5°	146.6	69.3	18.6	13.3	9.3	6.0	3.4	2.7	1.3	0.0	0.7
75°	16.7	13.3	12.0	9.3	6.0	2.7	0.7	0.0	0.0	0.0	0.0
77.5°	10.0	11.4	11.4	9.3	6.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	8.0	8.7	9.3	8.7	5.3	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	10.0	11.4	12.7	11.4	7.4	3.4	1.3	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	2.0	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°	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9
2.5°	1460.7	1446.0	1466.6	1436.0	1435.3	1436.0	1427.3	1419.3	1432.0	1466.0	1469.4
5°	1114.8	1146.2	1156.2	1188.8	1170.8	1144.1	1149.5	1131.5	1175.4	1194.8	1179.4
7.5°	811.7	809.6	877.0	881.0	889.6	890.3	888.9	853.6	817.6	825.6	849.6
10°	629.7	595.7	628.4	625.1	646.4	640.4	649.0	611.1	623.7	623.7	639.1
12.5°	513.1	477.1	471.1	462.4	471.1	474.4	477.8	470.4	491.8	501.7	512.5
15°	391.8	371.8	366.5	349.8	352.5	361.8	369.8	373.2	366.5	381.8	383.2
17.5°	284.5	283.8	287.2	286.5	283.8	281.9	281.2	272.6	269.9	271.2	276.6
20°	215.9	221.2	232.6	243.9	249.9	242.6	232.6	217.9	211.9	213.2	213.9
22.5°	184.6	192.6	207.9	220.6	226.6	213.2	195.3	182.6	179.9	179.2	178.6
25°	167.2	176.6	187.9	191.9	191.2	183.2	169.9	164.6	163.3	161.9	155.9
27.5°	157.9	161.3	163.3	168.0	169.9	164.6	161.3	153.2	151.9	151.9	147.9
30°	152.6	150.6	153.2	149.9	152.6	148.6	149.2	149.2	146.0	147.3	147.3
32.5°	142.0	142.6	142.6	135.9	138.0	133.3	138.0	142.0	142.6	143.3	148.6
35°	104.0	116.0	121.9	121.9	123.9	120.6	120.0	115.3	109.3	103.3	100.6
37.5°	91.3	96.0	104.0	108.6	112.0	109.3	103.3	96.0	92.6	90.0	87.3
40°	81.3	85.3	90.6	96.0	102.7	99.3	90.0	86.6	82.6	82.6	79.9
42.5°	73.3	75.3	78.6	86.6	94.0	87.3	80.6	78.0	76.0	75.3	74.6
45°	66.0	66.6	70.0	76.7	85.3	78.6	72.0	68.7	69.3	70.0	69.3
47.5°	59.3	60.6	62.6	70.6	76.0	72.7	65.3	63.3	63.3	63.3	64.0
50°	51.3	54.7	58.6	65.3	69.3	67.3	61.3	58.6	57.3	57.3	57.9
52.5°	46.0	48.6	53.9	61.9	67.3	64.0	57.9	53.9	51.3	50.7	52.0
55°	40.0	44.6	53.3	59.3	66.6	63.3	56.6	52.0	47.3	46.7	46.7
57.5°	36.0	43.3	51.3	58.6	64.7	61.9	56.6	50.7	44.6	44.0	44.0
60°	34.0	42.0	50.0	56.6	64.7	60.6	56.0	49.3	42.7	42.7	42.0
62.5°	32.0	39.3	47.3	53.9	61.9	58.6	53.9	47.3	40.6	40.6	39.3
65°	26.6	34.0	39.3	45.3	53.9	50.7	46.0	41.3	36.0	34.7	35.3
67.5°	18.6	23.3	28.7	34.7	40.0	38.7	36.6	33.4	28.7	28.0	27.3
70°	9.3	12.7	17.3	23.3	28.0	26.6	25.3	22.6	20.0	19.3	19.3
72.5°	1.3	4.0	7.4	10.6	14.6	15.3	14.6	14.0	13.3	12.7	13.3
75°	0.0	0.0	0.0	2.7	6.0	7.4	8.7	10.0	10.0	8.7	10.6
77.5°	0.0	0.0	0.0	0.0	0.7	3.4	6.7	8.7	10.6	9.3	12.7
80°	0.0	0.0	0.0	0.0	0.7	4.0	6.7	9.3	10.6	9.3	13.3
82.5°	0.0	0.0	0.0	0.0	0.7	4.7	6.7	8.7	10.0	9.3	12.0
85°	0.0	0.0	0.0	0.0	2.0	4.0	2.7	1.3	0.7	0.7	2.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9
2.5°	1488.0	1535.3	1586.0	1605.3	1665.3	1710.5	1741.2	1807.2	1817.2	1817.8
5°	1195.5	1219.4	1306.0	1346.8	1436.0	1505.3	1579.3	1685.9	1757.2	1762.5
7.5°	849.6	916.3	952.9	1058.9	1168.8	1277.5	1387.4	1511.3	1594.0	1595.9
10°	683.7	727.0	792.3	871.6	964.3	1074.8	1221.5	1365.4	1449.3	1470.0
12.5°	550.4	626.4	701.0	783.0	853.6	936.9	1094.9	1286.8	1356.1	1397.3
15°	423.8	493.1	581.1	677.1	757.0	868.3	1048.2	1267.4	1384.0	1398.0
17.5°	312.5	374.5	455.8	546.5	666.3	824.3	1056.2	1365.4	1475.3	1498.7
20°	224.6	260.6	324.6	429.8	582.4	773.0	1064.2	1464.7	1631.9	1671.9
22.5°	177.9	192.6	234.6	327.8	488.4	719.0	1120.9	1654.6	1847.2	1905.1
25°	154.6	162.6	182.6	258.5	429.2	713.7	1211.5	1882.5	2133.7	2175.7
27.5°	149.2	150.6	168.0	237.2	397.1	678.4	1246.1	2044.4	2312.3	2355.0
30°	157.2	178.6	179.9	200.6	337.9	608.4	1264.1	2201.0	2463.6	2494.9
32.5°	135.9	129.3	134.0	155.3	297.2	567.8	1298.1	2337.6	2636.1	2658.1
35°	94.6	99.3	109.9	134.6	259.9	525.1	1306.7	2488.2	2800.1	2822.7
37.5°	87.3	90.0	98.7	114.6	228.6	501.1	1294.8	2598.2	2970.0	3001.3
40°	81.3	84.6	89.3	104.0	205.2	474.4	1278.1	2697.4	3074.0	3151.3
42.5°	76.7	79.3	83.3	99.3	185.3	447.8	1254.8	2837.4	3167.2	3234.6
45°	71.3	75.3	79.9	96.6	173.9	429.8	1237.5	2828.7	3221.2	3257.2
47.5°	66.0	72.7	78.0	90.0	170.6	421.2	1244.7	2796.1	3177.3	3152.6
50°	60.6	69.3	78.6	74.6	162.6	403.8	1253.4	2840.7	3072.6	3068.0
52.5°	56.0	66.0	73.3	61.3	144.6	387.2	1337.4	2899.4	3146.6	3084.6
55°	49.3	59.3	58.6	49.3	117.3	374.5	1403.4	2900.7	3096.6	3119.9
57.5°	44.6	52.6	46.0	41.3	86.6	313.2	1296.1	2432.2	2650.8	2692.1
60°	41.3	51.3	34.7	32.7	56.6	225.9	1131.5	1883.8	2107.1	2185.0
62.5°	38.0	48.6	27.3	26.6	39.3	160.6	930.3	1576.6	1815.9	1921.8
65°	33.4	34.7	22.0	20.7	28.0	86.6	566.4	1085.5	1357.4	1396.7
67.5°	27.3	26.6	18.0	16.7	18.6	42.0	249.9	543.8	787.0	852.9
70°	22.0	22.0	15.3	13.3	13.3	19.3	65.3	216.6	355.9	393.8
72.5°	16.0	16.7	12.0	10.6	10.0	9.3	10.6	43.3	93.3	119.3
75°	14.0	14.6	12.0	9.3	7.4	6.0	4.7	4.0	5.3	8.7
77.5°	15.3	15.3	12.7	8.7	6.7	4.7	2.7	1.3	1.3	0.7
80°	19.3	20.0	16.7	11.4	8.0	5.3	3.4	1.3	0.7	0.7
82.5°	20.7	22.6	18.6	14.0	10.0	6.0	3.4	0.7	0.0	0.0
85°	5.3	8.7	14.6	12.7	10.0	6.0	3.4	0.7	0.0	0.0
87.5°	0.0	0.7	2.0	2.0	2.7	2.7	2.0	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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