

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: P450580

Luminaire Tested: **GALN-SA1B-827-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450580
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-SA1B-827-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3648 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

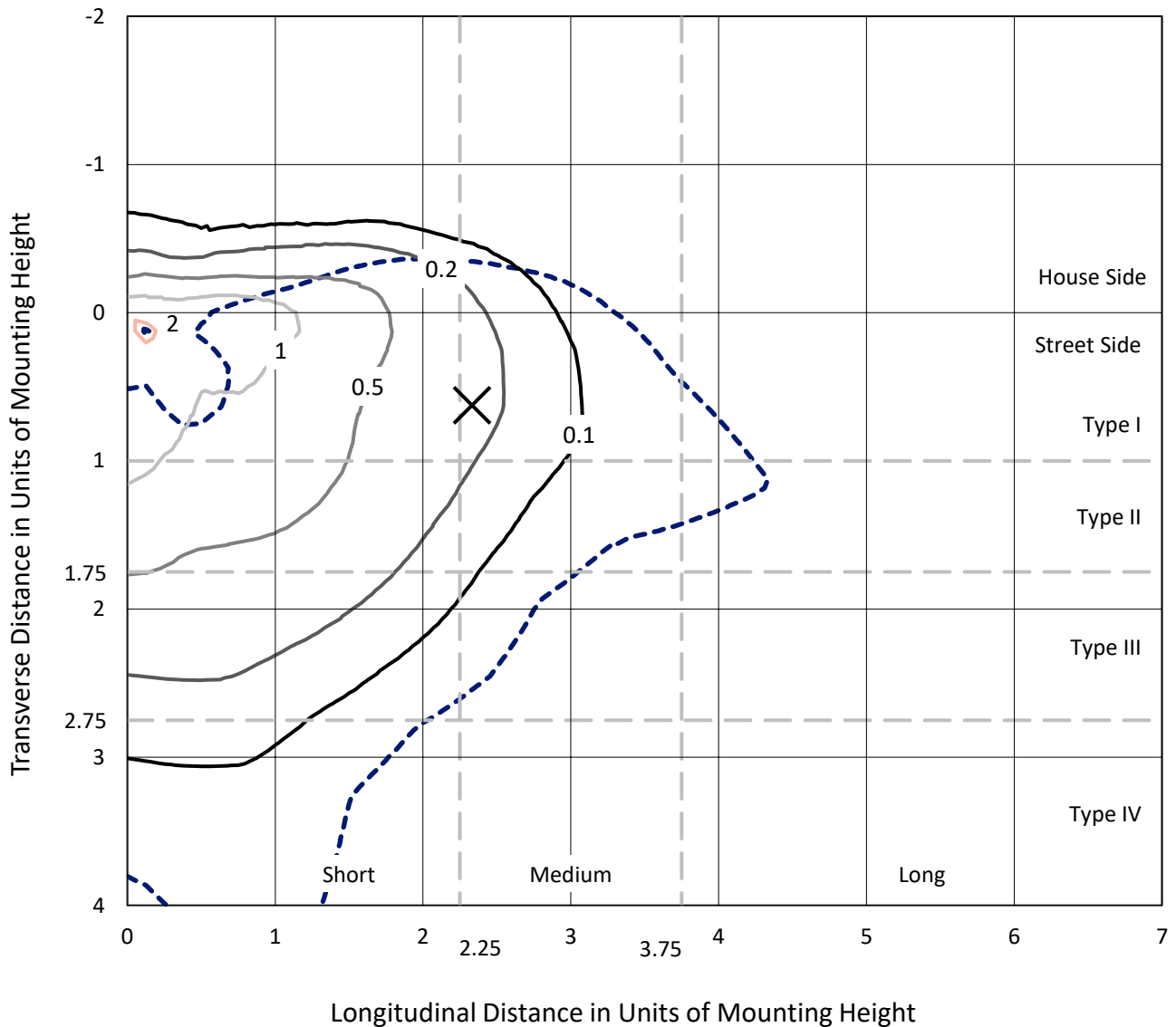
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

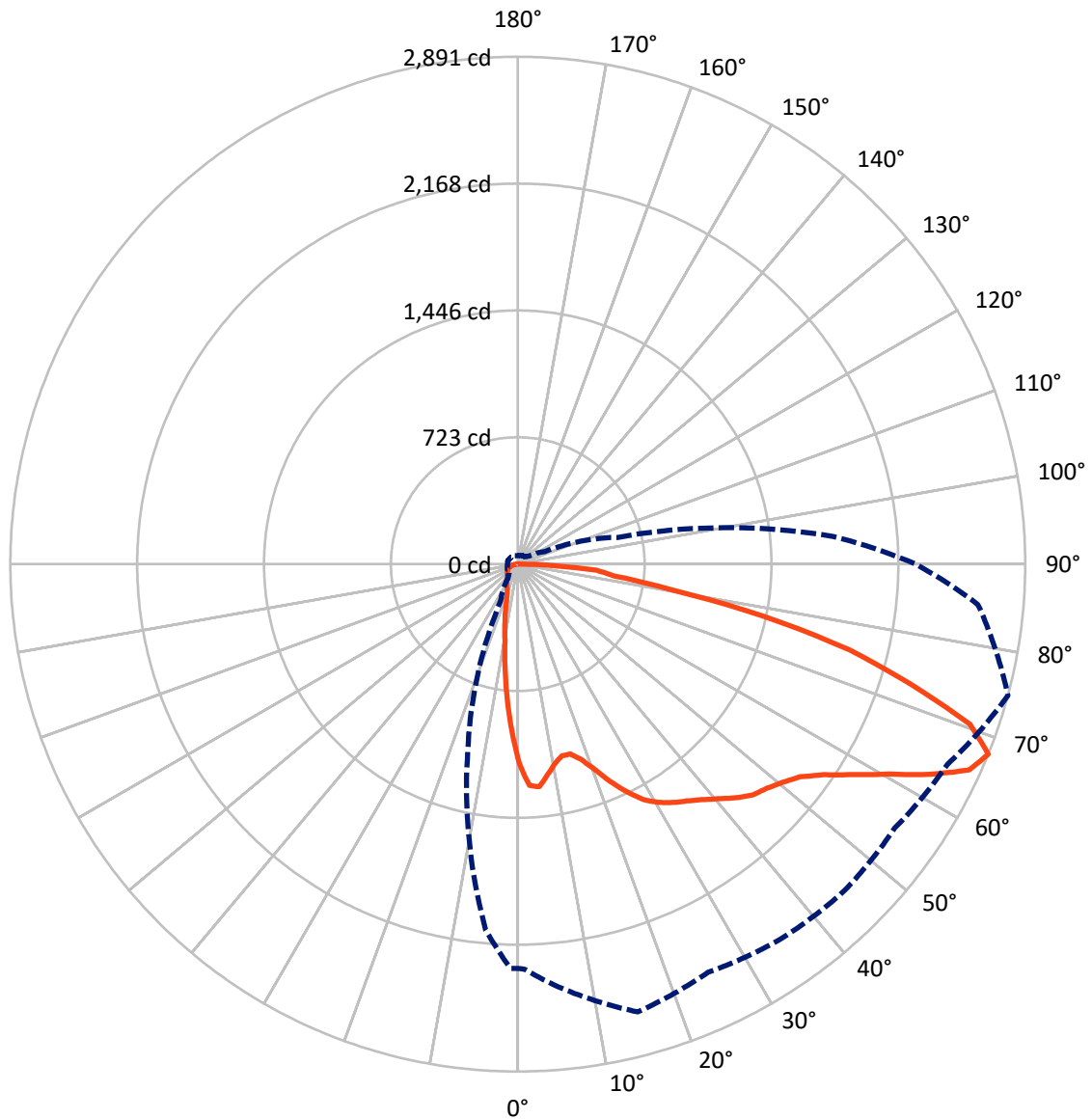
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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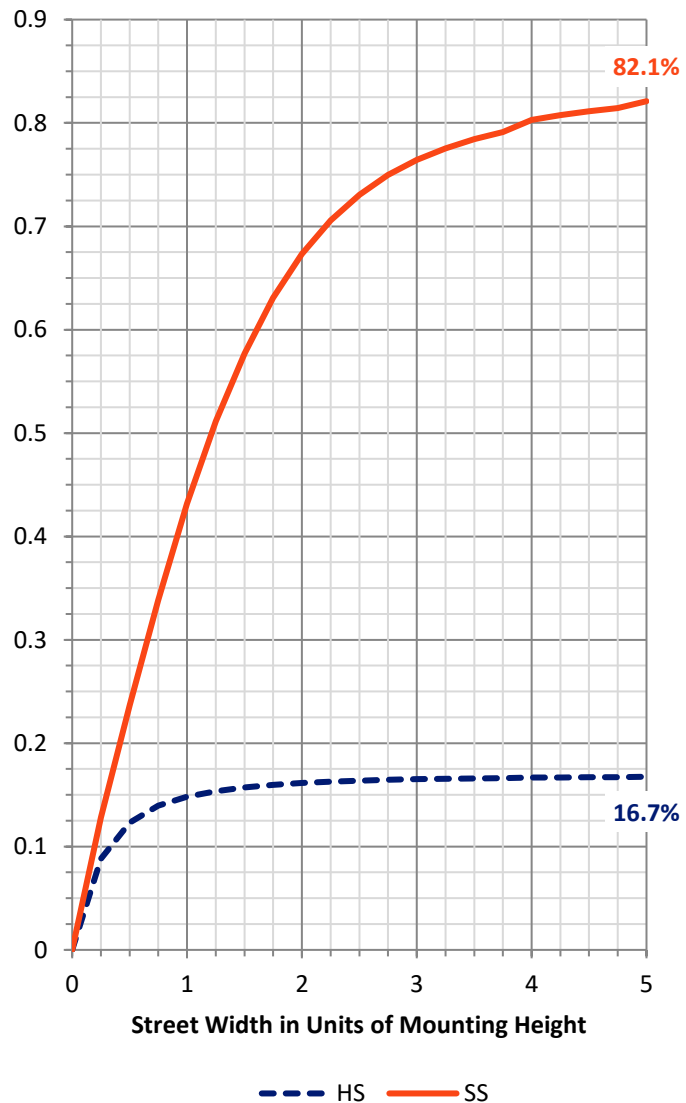
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	616.6	0.0	616.6
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	3031.4	0.0	3031.4
	% Fixture	83.1	0.0	83.1
Total	Lumens	3648.0	0.0	3648.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	2.4
10°-20°	180.3	4.9
20°-30°	259.4	7.1
30°-40°	373.6	10.2
40°-50°	524.9	14.4
50°-60°	732.0	20.1
60°-70°	870.3	23.9
70°-80°	512.6	14.1
80°-90°	108.4	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°	3648.0	100.0
0°-180°	3648.0	100.0



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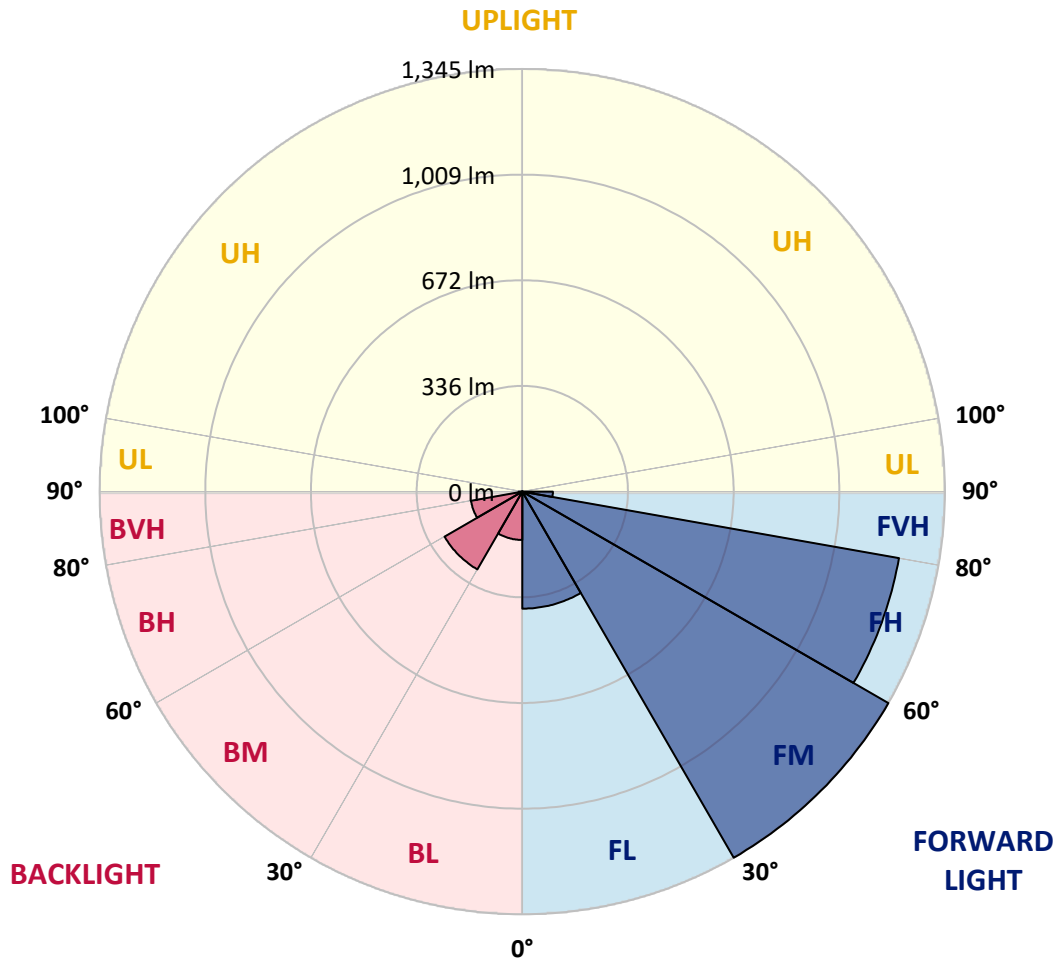
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	372.4	10.2			
FM (30°-60°)	1344.9	36.9			
FH (60°-80°)	1217.0	33.4			G1/1800
FVH (80°-90°)	97.2	2.7			G1/100
BL (0°-30°)	153.8	4.2	B1/500		
BM (30°-60°)	285.7	7.8	B1/1000		
BH (60°-80°)	165.9	4.5	B1/500		G1/500
BVH (80°-90°)	11.2	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-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7
2.5°	1228.8	1230.5	1241.0	1271.7	1292.7	1300.4	1305.8	1295.8	1285.9	1262.1	1226.0
5°	1225.1	1234.7	1262.1	1330.8	1385.1	1408.5	1415.5	1385.4	1335.5	1274.2	1200.5
7.5°	1153.5	1166.4	1208.5	1323.8	1419.5	1474.2	1467.0	1412.5	1322.7	1213.4	1110.5
10°	1068.6	1082.9	1133.6	1273.1	1396.3	1471.7	1471.7	1405.2	1285.9	1156.1	1037.5
12.5°	1001.2	1016.2	1074.2	1220.9	1348.2	1419.5	1431.4	1374.4	1259.5	1119.8	989.5
15°	979.0	993.5	1056.0	1189.3	1297.2	1340.7	1344.6	1325.9	1246.6	1122.4	987.4
17.5°	1006.6	1025.3	1088.5	1198.7	1250.4	1252.9	1256.0	1270.7	1248.0	1169.4	1030.0
20°	1086.4	1106.5	1172.5	1228.8	1209.4	1182.8	1184.4	1222.3	1264.6	1247.1	1131.8
22.5°	1201.5	1219.0	1286.6	1282.0	1192.1	1137.1	1125.7	1178.6	1289.2	1343.9	1240.1
25°	1325.7	1346.3	1424.0	1360.8	1197.0	1110.0	1102.8	1152.8	1314.7	1434.5	1365.2
27.5°	1467.9	1488.0	1549.3	1440.3	1222.8	1107.9	1099.3	1150.5	1337.6	1518.2	1484.8
30°	1573.7	1592.1	1633.8	1507.2	1254.3	1121.9	1111.2	1169.0	1357.3	1575.5	1601.3
32.5°	1656.7	1675.9	1698.6	1548.9	1296.0	1147.4	1127.6	1202.6	1383.0	1619.3	1687.6
35°	1743.3	1766.0	1764.3	1585.8	1334.8	1176.9	1157.5	1251.3	1423.5	1657.4	1797.1
37.5°	1853.0	1862.1	1850.4	1619.1	1381.4	1230.0	1219.3	1323.6	1481.0	1703.5	1925.0
40°	1964.3	1982.6	1922.5	1659.3	1438.0	1329.9	1328.7	1430.5	1549.3	1757.5	2049.0
42.5°	2059.8	2075.2	1989.8	1694.4	1506.5	1451.8	1460.7	1573.9	1638.9	1820.2	2148.7
45°	2131.6	2145.4	2052.1	1728.3	1596.8	1592.6	1645.0	1727.6	1751.9	1876.6	2207.2
47.5°	2192.7	2206.0	2095.3	1779.8	1708.4	1760.8	1852.0	1887.8	1848.5	1908.9	2272.7
50°	2244.1	2248.1	2125.0	1841.1	1846.9	1966.9	2055.3	2078.5	1944.0	1955.2	2329.5
52.5°	2297.7	2292.5	2176.3	1918.3	1996.6	2162.5	2226.8	2250.9	2035.5	2012.3	2412.3
55°	2417.7	2422.6	2291.1	2015.6	2148.0	2354.5	2439.2	2416.1	2136.7	2117.3	2517.6
57.5°	2562.7	2558.5	2452.8	2167.9	2302.1	2533.3	2596.4	2559.2	2272.0	2261.7	2624.3
60°	2619.1	2624.7	2588.0	2331.6	2454.2	2689.8	2754.3	2696.5	2434.1	2429.4	2704.7
62.5°	2562.5	2594.1	2618.9	2477.4	2583.8	2804.9	2869.0	2803.0	2603.2	2637.1	2761.1
65°	2449.7	2456.5	2541.0	2600.9	2646.2	2823.8	2857.3	2822.2	2744.5	2826.4	2758.5
67.5°	2303.3	2309.2	2408.1	2641.3	2565.8	2608.6	2632.0	2621.7	2700.8	2891.2	2631.5
70°	2163.9	2159.2	2263.8	2538.2	2233.6	2168.6	2188.0	2155.7	2330.4	2732.8	2382.4
72.5°	1892.5	1909.4	2021.6	2251.4	1768.5	1662.8	1705.1	1621.6	1792.4	2340.5	1933.7
75°	1482.4	1486.4	1673.8	1889.5	1334.1	1167.3	1224.6	1189.8	1373.0	1952.4	1335.3
77.5°	1026.5	1017.6	1219.0	1443.1	951.4	854.6	855.5	838.9	958.7	1437.5	907.2
80°	652.0	638.4	763.1	891.5	653.8	699.5	676.5	675.8	624.1	886.8	548.6
82.5°	352.3	367.3	482.1	558.9	469.0	540.6	495.5	481.0	428.3	555.1	350.9
85°	160.5	174.5	257.1	380.1	356.3	360.3	240.7	284.0	354.4	450.8	187.4
87.5°	15.7	20.1	53.1	179.4	121.6	95.9	35.8	69.0	89.1	160.2	15.0
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°	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7
2.5°	1211.3	1199.1	1157.7	1123.6	1087.3	1059.7	1023.7	999.6	983.0	958.0	954.9
5°	1155.6	1125.9	1053.9	980.4	917.0	869.3	820.9	776.4	750.2	742.0	731.5
7.5°	1061.8	1011.8	919.1	834.9	762.2	691.0	636.3	597.5	571.5	556.3	538.0
10°	984.6	926.6	813.9	710.7	650.8	606.6	558.4	516.8	484.7	457.3	442.4
12.5°	932.7	867.2	740.4	656.6	610.3	563.3	506.9	460.1	412.9	381.8	368.4
15°	917.0	847.8	717.7	629.7	563.3	501.8	438.6	377.6	330.8	301.3	291.5
17.5°	955.4	871.6	717.5	594.0	508.1	434.6	353.7	296.4	248.4	226.4	219.4
20°	1027.0	917.5	719.6	558.6	448.2	344.8	257.3	210.3	187.4	178.0	174.5
22.5°	1126.9	987.4	725.9	523.8	382.7	264.8	192.8	168.9	160.7	159.1	158.4
25°	1249.9	1074.0	747.2	492.4	327.5	202.1	161.2	150.4	145.7	144.1	143.9
27.5°	1363.1	1185.8	772.9	465.5	274.2	174.3	145.7	136.6	131.9	131.7	132.2
30°	1465.4	1279.4	794.4	435.3	233.7	154.9	135.7	126.6	122.1	121.9	123.3
32.5°	1553.8	1356.3	810.3	405.6	211.2	142.9	126.6	116.7	113.0	112.3	113.0
35°	1648.3	1433.1	803.1	382.5	198.4	133.1	119.8	110.2	105.7	103.6	103.6
37.5°	1756.1	1512.1	790.7	363.3	192.5	124.9	113.9	104.6	100.1	98.0	97.8
40°	1873.8	1591.2	773.6	346.2	186.7	120.0	109.9	100.1	94.7	92.6	92.2
42.5°	1977.7	1658.8	759.6	335.0	177.1	120.9	106.4	96.8	90.1	87.3	87.0
45°	2068.0	1726.9	757.0	328.4	169.1	119.5	105.5	94.3	86.3	83.3	82.8
47.5°	2138.6	1797.8	771.7	324.7	160.5	112.1	111.6	92.6	83.0	79.8	79.3
50°	2224.7	1898.4	805.4	317.0	152.5	105.0	117.9	92.4	80.5	76.3	75.1
52.5°	2339.3	2029.4	851.0	303.2	141.1	98.5	112.5	92.4	77.4	73.2	71.8
55°	2512.7	2196.4	895.7	283.8	124.9	89.8	101.5	89.6	73.0	69.2	68.3
57.5°	2627.5	2318.5	924.3	256.9	104.8	83.5	87.5	85.2	68.5	64.6	64.6
60°	2633.4	2351.3	910.7	222.9	92.2	77.7	76.0	85.9	64.6	60.4	59.9
62.5°	2566.0	2271.0	840.1	192.5	85.4	71.3	68.8	75.3	60.6	56.4	55.7
65°	2460.7	2066.3	717.5	178.0	81.6	65.7	62.0	61.8	56.4	52.4	51.5
67.5°	2267.3	1805.7	589.5	169.6	79.8	59.4	55.9	54.7	51.5	48.2	47.7
70°	1982.1	1512.4	472.8	166.1	78.8	52.9	50.1	48.7	45.9	43.3	43.0
72.5°	1542.1	1226.7	390.2	163.8	78.4	46.8	43.7	41.9	40.2	37.9	37.9
75°	1107.7	902.5	297.8	147.6	72.5	40.2	37.0	35.8	33.5	31.6	32.0
77.5°	698.3	607.8	196.0	108.5	56.1	32.3	29.5	28.8	26.9	24.3	26.0
80°	471.6	427.4	114.4	68.3	35.3	23.6	22.7	22.5	20.4	17.5	17.8
82.5°	321.0	314.9	59.4	38.8	20.4	13.8	13.3	13.8	11.5	9.4	9.4
85°	125.4	171.2	28.1	15.2	6.6	2.1	3.0	3.3	1.9	0.9	1.2
87.5°	2.3	17.5	0.7	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°	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7
2.5°	950.2	948.1	951.6	936.7	939.7	945.3	948.1	949.8	972.9	967.5	982.3
5°	741.3	739.2	752.8	754.7	761.7	760.3	767.1	768.7	777.1	780.2	800.8
7.5°	539.2	548.3	563.8	571.7	583.7	587.4	583.9	592.6	575.0	587.6	591.4
10°	433.2	422.2	415.7	433.9	436.3	453.6	446.6	441.0	451.3	451.7	461.5
12.5°	360.7	337.1	321.4	326.6	332.2	339.7	340.8	352.1	359.6	366.6	372.4
15°	282.8	274.6	260.4	253.3	261.3	264.3	271.6	281.0	288.9	291.0	299.0
17.5°	217.1	218.5	216.2	211.9	216.9	219.2	219.7	219.9	222.0	220.6	232.3
20°	174.7	179.7	185.5	186.4	188.1	189.3	187.1	179.2	179.4	184.3	188.1
22.5°	158.1	159.1	165.6	167.7	172.9	170.8	164.7	160.9	160.5	161.6	163.5
25°	145.0	146.4	151.1	154.4	158.4	154.6	150.2	146.7	146.2	147.4	149.2
27.5°	133.3	135.4	139.7	142.9	146.7	143.2	139.0	135.9	135.7	135.4	136.6
30°	124.0	126.3	129.4	133.1	135.7	132.6	128.7	127.0	126.8	126.3	126.8
32.5°	114.6	118.4	121.4	123.3	125.9	123.5	120.5	119.5	117.9	116.5	115.8
35°	104.1	108.1	112.8	115.1	117.7	115.3	113.2	109.2	106.4	106.2	106.7
37.5°	98.0	99.7	103.4	107.4	109.9	108.8	104.8	100.8	100.1	100.1	100.6
40°	92.6	93.3	95.0	100.1	104.8	101.3	96.4	95.2	95.2	95.0	95.2
42.5°	87.3	88.0	88.0	91.9	99.4	93.8	90.1	90.1	90.1	90.3	91.0
45°	82.3	82.6	82.3	85.2	92.2	87.5	84.9	85.6	86.1	86.6	87.0
47.5°	78.1	78.4	78.1	80.5	84.0	82.1	80.7	81.6	82.6	83.3	83.7
50°	74.4	74.2	74.6	76.0	77.7	78.1	77.2	78.6	79.1	80.0	81.2
52.5°	71.1	70.9	71.3	72.1	74.4	74.4	74.4	75.6	76.5	77.4	79.1
55°	67.4	67.6	68.3	69.2	72.3	71.8	72.1	73.0	73.9	75.3	76.3
57.5°	63.9	64.3	65.3	66.7	69.7	69.5	69.7	70.2	71.3	72.1	73.0
60°	59.9	60.8	62.0	62.9	66.0	65.7	66.9	67.8	68.5	68.5	69.0
62.5°	55.9	57.3	58.5	59.2	62.5	62.7	64.3	65.0	65.5	65.0	65.7
65°	51.9	54.0	54.5	55.4	58.7	59.0	60.8	62.5	62.0	61.5	62.7
67.5°	48.0	50.5	50.3	51.5	54.7	55.2	56.8	59.7	58.7	58.2	59.2
70°	43.5	45.4	45.6	46.3	50.8	50.1	52.6	55.2	54.5	54.7	54.7
72.5°	38.6	40.2	40.2	41.6	46.3	45.1	47.3	50.1	50.1	49.8	49.8
75°	32.8	33.7	34.6	36.7	41.6	40.2	41.6	44.2	44.7	44.2	44.2
77.5°	26.4	27.8	28.3	31.1	34.6	34.4	35.8	37.0	37.9	37.4	37.4
80°	18.7	20.1	22.0	25.0	27.1	27.8	28.5	29.5	29.9	29.9	30.4
82.5°	10.5	12.6	14.3	17.3	18.2	21.8	21.5	22.2	21.5	18.9	21.1
85°	2.3	4.4	6.3	8.0	9.1	12.6	13.3	15.0	12.4	11.5	11.5
87.5°	0.0	0.0	0.0	0.0	0.0	1.9	3.7	5.1	4.4	3.7	3.7
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7
2.5°	994.7	1015.0	1039.6	1081.9	1111.6	1143.7	1176.0	1210.4	1219.5	1228.8
5°	806.4	846.4	868.1	925.0	984.6	1060.4	1122.4	1190.3	1218.6	1225.1
7.5°	610.8	637.9	695.0	752.6	826.5	906.0	1001.0	1106.7	1139.7	1153.5
10°	484.2	521.2	571.3	633.0	697.8	783.4	890.6	1014.1	1060.9	1068.6
12.5°	412.2	453.4	507.9	573.1	634.4	699.0	807.1	934.6	984.6	1001.2
15°	329.6	379.4	442.4	511.1	577.8	648.5	757.9	901.8	959.6	979.0
17.5°	259.0	299.2	367.3	441.9	521.0	610.3	747.6	917.5	988.6	1006.6
20°	198.1	226.9	284.2	363.1	455.7	572.7	750.2	976.7	1061.8	1086.4
22.5°	171.2	186.0	220.8	295.9	399.6	539.9	760.8	1057.8	1160.5	1201.5
25°	155.1	162.8	182.5	231.6	346.0	508.1	784.8	1167.1	1298.6	1325.7
27.5°	141.3	146.9	159.1	194.4	297.3	478.6	812.9	1288.3	1427.5	1467.9
30°	128.2	135.7	147.1	172.6	266.2	451.7	848.2	1386.5	1536.0	1573.7
32.5°	118.1	125.6	136.1	157.4	239.8	423.4	869.3	1472.8	1624.7	1656.7
35°	109.9	116.3	127.3	145.3	219.7	401.9	865.1	1541.4	1710.5	1743.3
37.5°	104.1	109.5	120.5	133.8	204.5	379.4	863.0	1631.9	1815.1	1853.0
40°	98.7	104.3	114.4	126.3	189.3	353.0	864.1	1721.7	1926.4	1964.3
42.5°	94.5	100.8	109.0	124.2	173.6	331.7	864.1	1799.9	2023.3	2059.8
45°	91.0	97.8	105.7	124.0	161.2	315.6	858.3	1867.0	2100.5	2131.6
47.5°	88.0	95.4	106.9	119.8	158.1	303.9	853.2	1920.8	2163.4	2192.7
50°	85.9	94.7	113.7	114.9	159.1	300.4	878.0	1988.7	2218.9	2244.1
52.5°	84.2	95.0	113.5	107.6	157.4	302.7	929.6	2094.6	2295.8	2297.7
55°	80.9	94.7	107.6	99.4	150.7	306.7	996.1	2248.6	2416.3	2417.7
57.5°	77.7	92.2	99.9	92.4	136.9	306.7	1076.1	2394.3	2561.6	2562.7
60°	74.4	95.9	87.7	86.3	118.8	301.1	1160.5	2458.4	2607.2	2619.1
62.5°	71.1	96.6	78.4	80.9	105.7	287.5	1223.5	2387.5	2545.4	2562.5
65°	67.4	77.9	72.3	75.3	99.0	264.8	1203.6	2257.7	2429.4	2449.7
67.5°	62.9	66.0	65.7	69.5	96.6	231.4	1098.8	2093.5	2304.5	2303.3
70°	57.5	59.2	59.9	63.9	92.2	205.4	915.6	1880.4	2137.7	2163.9
72.5°	51.9	53.3	54.0	57.5	87.7	190.7	710.7	1586.8	1851.6	1892.5
75°	45.9	46.8	47.7	50.8	83.0	168.9	506.2	1211.3	1418.1	1482.4
77.5°	39.5	39.5	40.7	43.7	69.9	139.4	339.7	849.6	960.8	1026.5
80°	32.0	32.3	31.8	35.1	51.5	95.4	193.0	567.5	639.3	652.0
82.5°	24.6	23.9	24.1	25.7	38.4	65.0	102.9	352.5	359.3	352.3
85°	15.4	15.4	15.0	16.8	24.6	33.9	56.1	215.9	168.7	160.5
87.5°	6.3	5.1	5.8	6.8	11.7	13.8	22.0	44.4	17.1	15.7
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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