

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: P652177

Luminaire Tested: **GALN-SA1B-840-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652177  
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-840-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 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: 4173.9 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

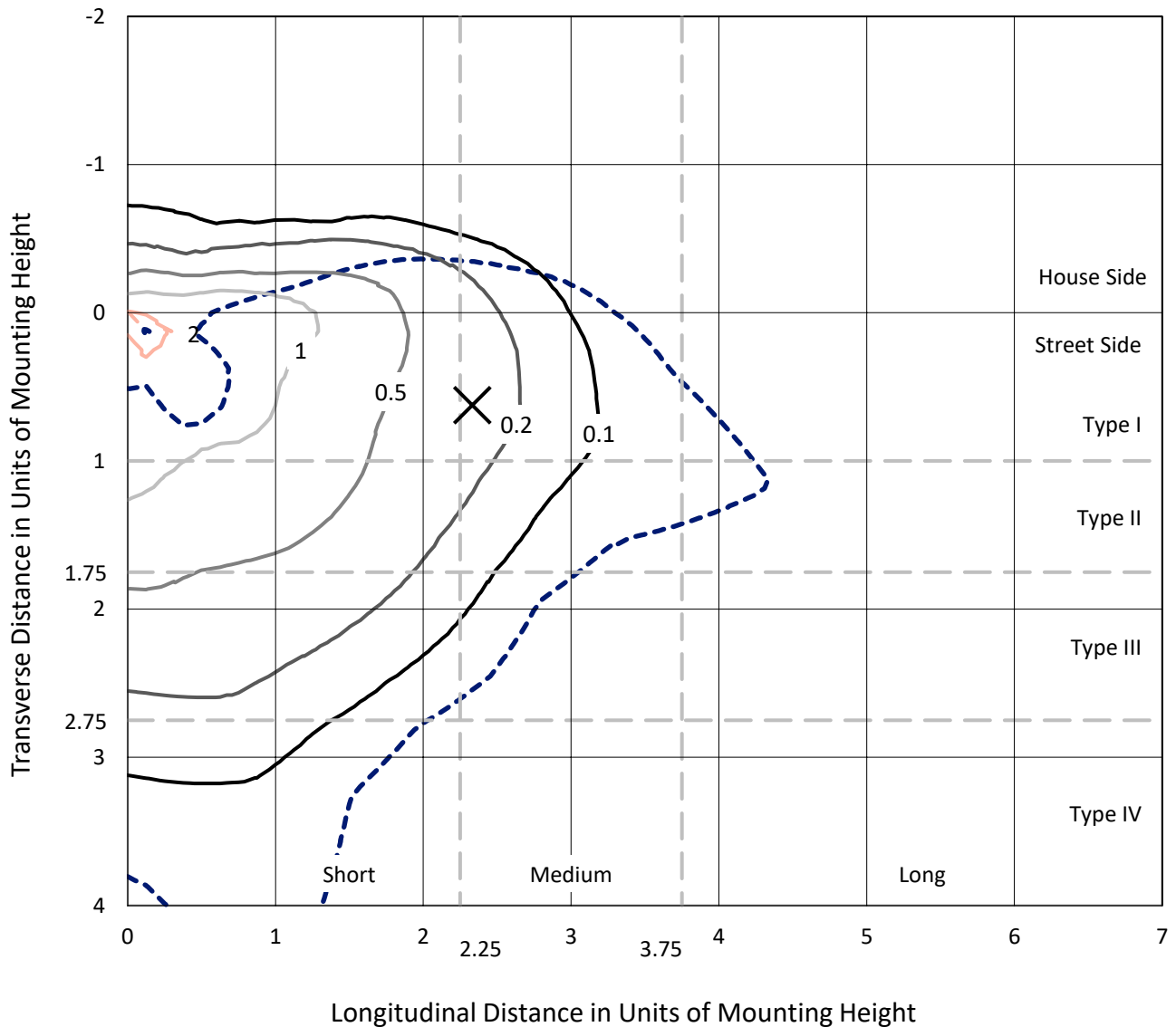
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

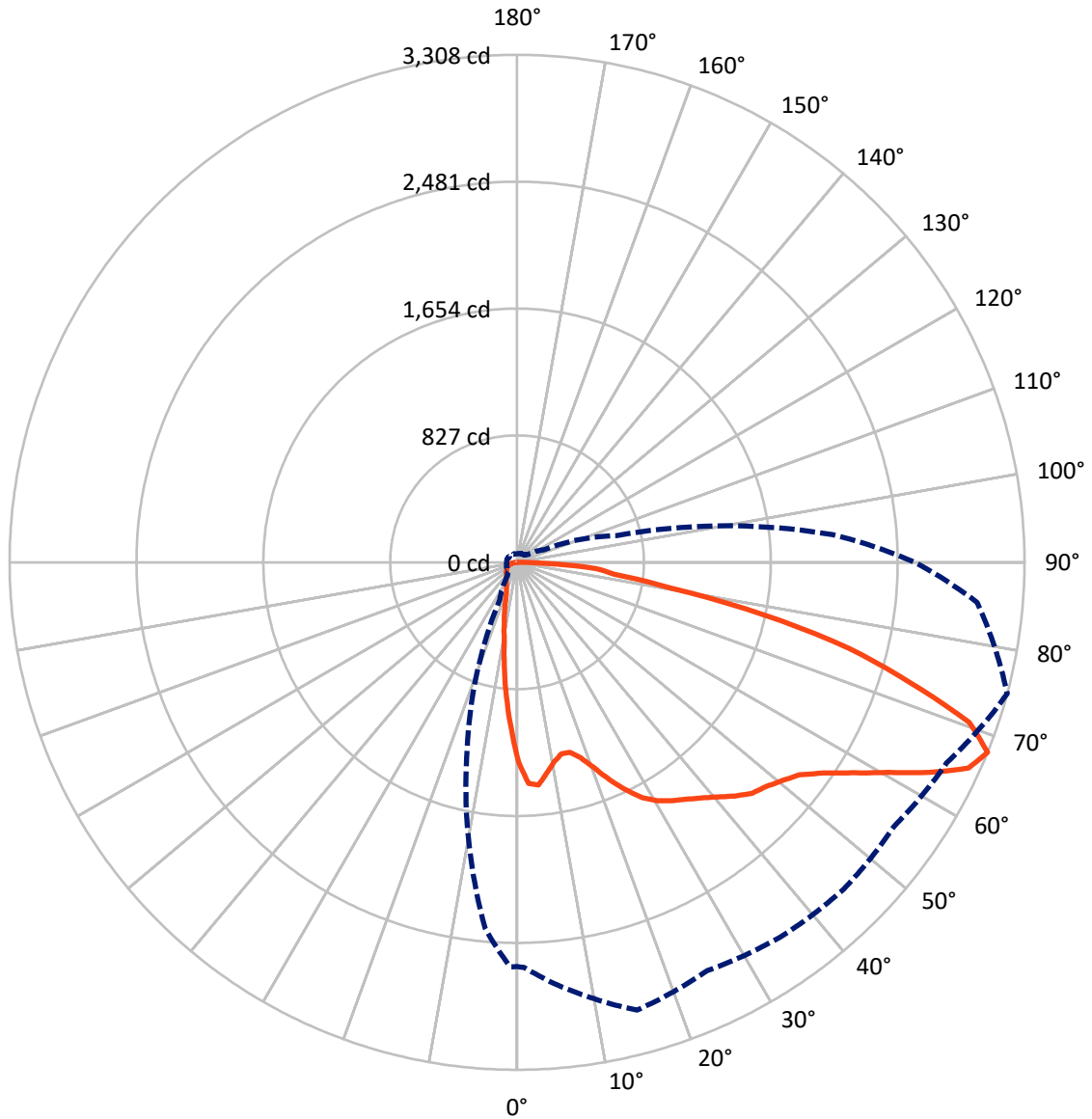
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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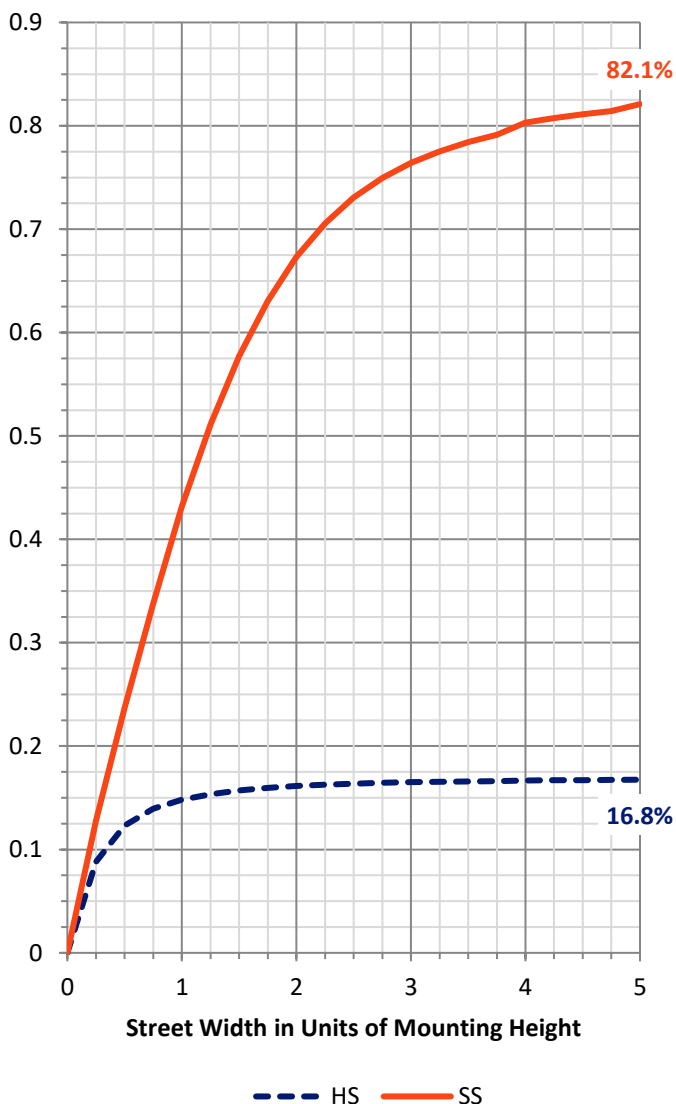
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	705.5	0.0	705.5
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	3468.4	0.0	3468.4
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	4173.9	0.0	4173.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.9	2.4
10°-20°	206.3	4.9
20°-30°	296.8	7.1
30°-40°	427.5	10.2
40°-50°	600.5	14.4
50°-60°	837.5	20.1
60°-70°	995.8	23.9
70°-80°	586.5	14.1
80°-90°	124.0	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°	4173.9	100.0
0°-180°	4173.9	100.0

**Coefficient of Utilization**



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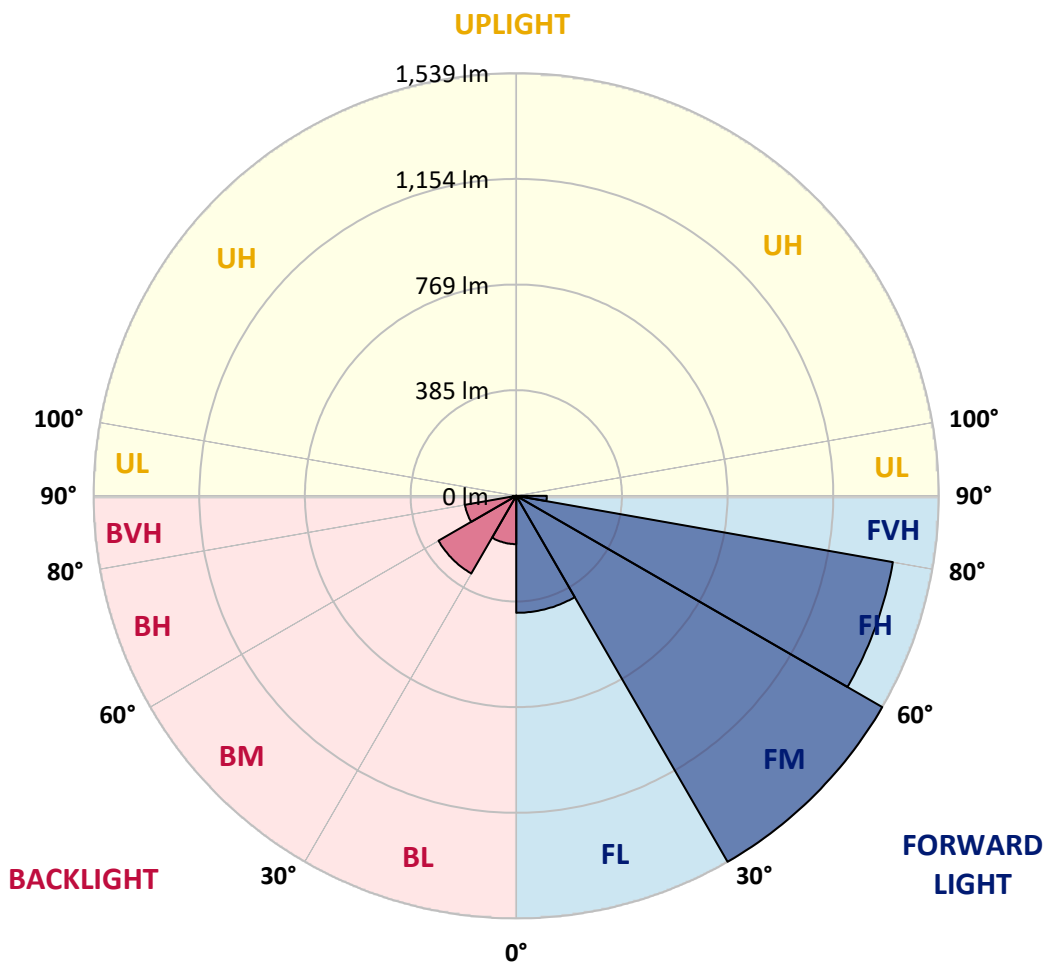
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	426.0	10.2			
FM (30°-60°)	1538.8	36.9			
FH (60°-80°)	1392.4	33.4			G1/1800
FVH (80°-90°)	111.2	2.7			G2/225
BL (0°-30°)	176.0	4.2	B1/500		
BM (30°-60°)	326.8	7.8	B1/1000		
BH (60°-80°)	189.8	4.5	B1/500		G1/500
BVH (80°-90°)	12.8	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°	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1
2.5°	1406.0	1407.8	1419.9	1455.0	1479.1	1487.9	1494.0	1482.5	1471.3	1444.0	1402.8
5°	1401.7	1412.7	1444.0	1522.7	1584.8	1611.5	1619.6	1585.0	1528.0	1458.0	1373.6
7.5°	1319.8	1334.5	1382.7	1514.6	1624.1	1686.8	1678.5	1616.1	1513.3	1388.3	1270.6
10°	1222.6	1239.0	1297.1	1456.6	1597.6	1683.9	1683.9	1607.8	1471.3	1322.7	1187.1
12.5°	1145.5	1162.7	1229.0	1396.9	1542.5	1624.1	1637.8	1572.5	1441.1	1281.3	1132.2
15°	1120.1	1136.7	1208.2	1360.7	1484.1	1533.9	1538.5	1517.1	1426.3	1284.2	1129.8
17.5°	1151.7	1173.1	1245.4	1371.5	1430.6	1433.6	1437.0	1453.9	1427.9	1338.0	1178.5
20°	1243.0	1266.0	1341.5	1406.0	1383.8	1353.3	1355.1	1398.5	1446.9	1426.8	1294.9
22.5°	1374.7	1394.7	1472.1	1466.8	1363.9	1301.1	1288.0	1348.5	1475.0	1537.7	1418.9
25°	1516.8	1540.4	1629.2	1556.9	1369.6	1270.0	1261.8	1319.0	1504.2	1641.3	1562.1
27.5°	1679.6	1702.5	1772.7	1647.9	1399.0	1267.6	1257.7	1316.3	1530.5	1737.1	1698.8
30°	1800.5	1821.7	1869.3	1724.5	1435.2	1283.7	1271.3	1337.4	1552.9	1802.7	1832.1
32.5°	1895.5	1917.5	1943.5	1772.2	1482.9	1312.9	1290.1	1376.0	1582.3	1852.7	1930.9
35°	1994.6	2020.5	2018.7	1814.5	1527.3	1346.6	1324.3	1431.7	1628.7	1896.4	2056.2
37.5°	2120.1	2130.5	2117.1	1852.5	1580.5	1407.3	1395.1	1514.4	1694.5	1949.1	2202.6
40°	2247.5	2268.3	2199.6	1898.5	1645.2	1521.6	1520.3	1636.8	1772.7	2010.9	2344.4
42.5°	2356.7	2374.4	2276.7	1938.7	1723.7	1661.1	1671.2	1800.7	1875.2	2082.7	2458.4
45°	2438.9	2454.7	2347.9	1977.4	1827.0	1822.2	1882.2	1976.6	2004.4	2147.2	2525.4
47.5°	2508.7	2524.0	2397.4	2036.3	1954.7	2014.6	2119.1	2160.0	2115.0	2184.1	2600.3
50°	2567.7	2572.2	2431.4	2106.5	2113.2	2250.4	2351.6	2378.1	2224.2	2237.1	2665.3
52.5°	2628.9	2623.0	2490.0	2194.8	2284.4	2474.2	2547.8	2575.4	2328.9	2302.4	2760.1
55°	2766.2	2771.9	2621.4	2306.1	2457.7	2694.0	2790.9	2764.4	2444.8	2422.6	2880.5
57.5°	2932.1	2927.4	2806.3	2480.4	2634.0	2898.4	2970.7	2928.2	2599.4	2587.7	3002.5
60°	2996.7	3003.1	2961.1	2667.7	2808.0	3077.5	3151.4	3085.3	2785.0	2779.6	3094.6
62.5°	2931.9	2968.1	2996.4	2834.5	2956.3	3209.2	3282.5	3207.1	2978.5	3017.3	3159.1
65°	2802.9	2810.6	2907.3	2975.8	3027.7	3230.9	3269.1	3229.0	3140.1	3233.8	3156.2
67.5°	2635.4	2642.0	2755.3	3022.1	2935.7	2984.6	3011.4	2999.6	3090.1	3308.0	3010.9
70°	2475.8	2470.4	2590.1	2904.1	2555.5	2481.2	2503.4	2466.5	2666.4	3126.8	2725.8
72.5°	2165.3	2184.6	2313.1	2575.9	2023.4	1902.5	1951.0	1855.4	2050.8	2677.9	2212.4
75°	1696.1	1700.7	1915.0	2161.9	1526.4	1335.6	1401.2	1361.3	1570.9	2233.9	1527.8
77.5°	1174.5	1164.3	1394.7	1651.1	1088.6	977.7	978.8	959.8	1096.8	1644.7	1038.0
80°	746.0	730.4	873.1	1020.0	748.1	800.3	774.1	773.3	714.1	1014.7	627.6
82.5°	403.1	420.2	551.6	639.4	536.6	618.6	566.9	550.3	490.1	635.1	401.5
85°	183.6	199.7	294.2	435.0	407.6	412.2	275.4	325.0	405.5	515.8	214.4
87.5°	17.9	23.0	60.7	205.3	139.2	109.8	41.0	79.0	102.0	183.3	17.2
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°	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1
2.5°	1385.9	1372.0	1324.7	1285.6	1244.1	1212.5	1171.3	1143.7	1124.7	1096.1	1092.5
5°	1322.2	1288.2	1205.8	1121.7	1049.2	994.7	939.2	888.3	858.4	849.0	837.0
7.5°	1214.9	1157.6	1051.6	955.3	872.0	790.6	728.1	683.6	653.9	636.5	615.6
10°	1126.6	1060.2	931.2	813.2	744.6	694.0	638.9	591.2	554.6	523.3	506.1
12.5°	1067.1	992.2	847.1	751.3	698.3	644.5	580.0	526.5	472.4	436.8	421.6
15°	1049.2	970.0	821.2	720.6	644.5	574.2	501.8	432.0	378.4	344.7	333.5
17.5°	1093.1	997.3	820.9	679.6	581.4	497.3	404.7	339.1	284.3	259.1	251.0
20°	1175.0	1049.7	823.3	639.2	512.8	394.5	294.4	240.6	214.4	203.7	199.7
22.5°	1289.3	1129.8	830.6	599.3	437.9	303.0	220.5	193.3	183.8	182.0	181.2
25°	1430.1	1228.8	854.9	563.4	374.7	231.3	184.4	172.1	166.8	164.8	164.6
27.5°	1559.6	1356.8	884.3	532.6	313.7	199.4	166.8	156.3	151.0	150.7	151.2
30°	1676.6	1463.8	909.0	498.1	267.4	177.2	155.2	144.8	139.7	139.4	141.0
32.5°	1777.8	1551.9	927.1	464.1	241.7	163.6	144.8	133.6	129.3	128.5	129.3
35°	1885.9	1639.7	918.9	437.7	227.0	152.3	137.0	126.1	121.0	118.6	118.6
37.5°	2009.3	1730.1	904.7	415.7	220.3	143.0	130.4	119.7	114.5	112.2	111.9
40°	2144.0	1820.6	885.2	396.1	213.6	137.3	125.8	114.5	108.4	106.0	105.5
42.5°	2262.8	1898.0	869.1	383.2	202.6	138.3	121.8	110.8	103.0	99.8	99.6
45°	2366.1	1975.8	866.1	375.8	193.5	136.7	120.7	107.9	98.7	95.3	94.8
47.5°	2446.9	2056.9	883.0	371.5	183.6	128.2	127.7	106.0	95.0	91.2	90.7
50°	2545.4	2172.1	921.6	362.6	174.5	120.2	134.9	105.7	92.1	87.3	86.0
52.5°	2676.6	2321.9	973.7	346.9	161.4	112.7	128.8	105.7	88.6	83.8	82.2
55°	2874.9	2513.0	1024.8	324.6	143.0	102.8	116.1	102.5	83.5	79.2	78.1
57.5°	3006.3	2652.8	1057.5	293.8	119.9	95.5	100.1	97.4	78.4	73.8	73.8
60°	3013.0	2690.2	1042.0	255.1	105.5	88.9	87.0	98.2	73.8	69.0	68.5
62.5°	2935.9	2598.4	961.2	220.3	97.7	81.7	78.7	86.2	69.3	64.5	63.7
65°	2815.5	2364.2	820.9	203.7	93.4	75.2	70.9	70.6	64.5	60.0	58.9
67.5°	2594.1	2066.0	674.5	194.0	91.2	68.0	64.0	62.7	58.9	55.2	54.6
70°	2267.8	1730.4	540.9	190.1	90.2	60.5	57.3	55.7	52.5	49.5	49.3
72.5°	1764.4	1403.6	446.5	187.4	89.7	53.6	50.0	47.9	46.0	43.4	43.4
75°	1267.4	1032.6	340.7	168.9	83.0	46.0	42.3	41.0	38.3	36.2	36.7
77.5°	798.9	695.3	224.3	124.2	64.3	36.9	33.7	32.9	30.8	27.8	29.7
80°	539.6	489.0	130.9	78.1	40.5	27.0	26.0	25.7	23.3	20.1	20.4
82.5°	367.3	360.3	68.0	44.4	23.3	15.8	15.2	15.8	13.1	10.7	10.7
85°	143.5	196.0	32.1	17.4	7.5	2.4	3.4	3.8	2.1	1.1	1.3
87.5°	2.7	20.1	0.8	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°	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1
2.5°	1087.2	1084.8	1088.8	1071.7	1075.1	1081.6	1084.8	1086.7	1113.1	1107.0	1123.9
5°	848.2	845.8	861.4	863.5	871.5	869.8	877.7	879.5	889.2	892.6	916.2
7.5°	617.0	627.4	645.0	654.1	667.8	672.0	668.1	678.0	657.9	672.4	676.7
10°	495.7	483.2	475.6	496.5	499.2	519.0	511.0	504.5	516.3	516.9	528.1
12.5°	412.8	385.7	367.8	373.7	380.0	388.6	390.0	402.8	411.4	419.4	426.1
15°	323.6	314.2	297.9	289.9	299.0	302.4	310.7	321.4	330.6	333.0	342.0
17.5°	248.3	250.0	247.3	242.5	248.1	250.8	251.3	251.6	254.0	252.4	265.8
20°	199.9	205.5	212.3	213.4	215.2	216.6	214.1	205.0	205.3	210.9	215.2
22.5°	180.9	182.0	189.5	191.9	197.8	195.4	188.5	184.2	183.6	184.9	187.1
25°	165.9	167.5	172.9	176.7	181.2	176.9	171.8	167.8	167.3	168.6	170.7
27.5°	152.6	155.0	159.8	163.6	167.8	163.8	158.9	155.5	155.2	155.0	156.3
30°	141.9	144.6	148.0	152.3	155.2	151.8	147.2	145.3	145.1	144.6	145.1
32.5°	131.1	135.4	138.9	141.0	144.0	141.3	137.8	136.7	134.9	133.3	132.5
35°	119.1	123.6	129.0	131.7	134.6	132.0	129.5	125.0	121.8	121.5	122.0
37.5°	112.2	114.0	118.3	122.9	125.8	124.5	119.9	115.4	114.5	114.5	115.1
40°	106.0	106.8	108.7	114.5	119.9	115.9	110.3	108.9	108.9	108.7	108.9
42.5°	99.8	100.7	100.7	105.2	113.8	107.3	103.0	103.0	103.0	103.3	104.1
45°	94.2	94.4	94.2	97.4	105.5	100.1	97.1	98.0	98.5	99.1	99.6
47.5°	89.4	89.7	89.4	92.1	96.1	93.9	92.3	93.4	94.4	95.3	95.8
50°	85.1	84.9	85.4	87.0	88.9	89.4	88.3	89.9	90.5	91.5	92.8
52.5°	81.4	81.1	81.7	82.4	85.1	85.1	85.1	86.5	87.5	88.6	90.5
55°	77.1	77.4	78.1	79.2	82.7	82.2	82.4	83.5	84.6	86.2	87.3
57.5°	73.1	73.6	74.7	76.3	79.7	79.5	79.7	80.3	81.7	82.4	83.5
60°	68.5	69.6	70.9	72.0	75.4	75.2	76.5	77.6	78.4	78.4	79.0
62.5°	64.0	65.6	66.9	67.7	71.5	71.7	73.6	74.4	74.9	74.4	75.2
65°	59.5	61.8	62.4	63.4	67.2	67.4	69.6	71.5	70.9	70.4	71.7
67.5°	54.8	57.8	57.5	58.9	62.7	63.2	65.0	68.3	67.2	66.6	67.7
70°	49.8	51.9	52.2	53.0	58.1	57.3	60.2	63.2	62.4	62.7	62.7
72.5°	44.2	46.0	46.0	47.7	53.0	51.6	54.1	57.3	57.3	57.0	57.0
75°	37.5	38.5	39.6	42.0	47.7	46.0	47.7	50.6	51.1	50.6	50.6
77.5°	30.3	31.9	32.4	35.6	39.6	39.4	41.0	42.3	43.4	42.8	42.8
80°	21.4	23.0	25.1	28.7	31.0	31.9	32.6	33.7	34.2	34.2	34.8
82.5°	12.0	14.5	16.3	19.8	20.9	24.9	24.6	25.4	24.6	21.7	24.1
85°	2.7	5.0	7.2	9.1	10.4	14.5	15.2	17.2	14.2	13.1	13.1
87.5°	0.0	0.0	0.0	0.0	0.0	2.1	4.3	5.9	5.0	4.3	4.3
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°	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1
2.5°	1138.0	1161.3	1189.4	1237.9	1271.9	1308.6	1345.5	1384.9	1395.3	1406.0
5°	922.6	968.4	993.3	1058.3	1126.6	1213.3	1284.2	1361.8	1394.2	1401.7
7.5°	698.9	729.9	795.2	861.0	945.6	1036.6	1145.3	1266.3	1304.1	1319.8
10°	554.1	596.4	653.6	724.3	798.4	896.3	1019.0	1160.3	1213.8	1222.6
12.5°	471.6	518.7	581.0	655.7	725.9	799.8	923.4	1069.2	1126.6	1145.5
15°	377.1	434.1	506.1	584.8	661.1	741.9	867.2	1031.8	1097.9	1120.1
17.5°	296.3	342.4	420.2	505.6	596.1	698.3	855.5	1049.7	1131.1	1151.7
20°	226.7	259.6	325.2	415.4	521.4	655.2	858.4	1117.4	1214.9	1243.0
22.5°	196.0	212.8	252.6	338.6	457.2	617.7	870.4	1210.4	1327.9	1374.7
25°	177.5	186.3	208.7	265.0	395.9	581.4	898.0	1335.3	1485.8	1516.8
27.5°	161.6	168.1	182.0	222.4	340.2	547.7	930.1	1474.0	1633.2	1679.6
30°	146.7	155.2	168.4	197.6	304.6	516.9	970.5	1586.4	1757.4	1800.5
32.5°	135.1	143.7	155.8	180.1	274.3	484.4	994.7	1685.2	1858.9	1895.5
35°	125.8	133.0	145.6	166.2	251.3	459.9	989.8	1763.6	1957.1	1994.6
37.5°	119.1	125.2	137.8	153.1	234.0	434.1	987.4	1867.2	2076.8	2120.1
40°	112.9	119.3	130.9	144.6	216.6	403.9	988.7	1970.0	2204.2	2247.5
42.5°	108.2	115.4	124.7	142.1	198.6	379.5	988.7	2059.4	2314.9	2356.7
45°	104.1	111.9	121.0	141.9	184.4	361.0	982.0	2136.1	2403.2	2438.9
47.5°	100.7	109.2	122.3	137.0	180.9	347.7	976.1	2197.7	2475.3	2508.7
50°	98.2	108.4	130.1	131.4	182.0	343.6	1004.5	2275.3	2538.7	2567.7
52.5°	96.4	108.7	129.9	123.1	180.1	346.3	1063.7	2396.6	2626.8	2628.9
55°	92.6	108.4	123.1	113.8	172.4	350.9	1139.6	2572.7	2764.6	2766.2
57.5°	88.9	105.5	114.3	105.7	156.6	350.9	1231.2	2739.5	2930.8	2932.1
60°	85.1	109.8	100.3	98.7	136.0	344.5	1327.9	2812.8	2983.0	2996.7
62.5°	81.4	110.5	89.7	92.6	121.0	328.9	1399.8	2731.7	2912.4	2931.9
65°	77.1	89.1	82.7	86.2	113.2	303.0	1377.1	2583.1	2779.6	2802.9
67.5°	72.0	75.4	75.2	79.5	110.5	264.7	1257.2	2395.3	2636.7	2635.4
70°	65.9	67.7	68.5	73.1	105.5	235.0	1047.6	2151.4	2445.9	2475.8
72.5°	59.5	61.1	61.8	65.9	100.3	218.2	813.2	1815.6	2118.5	2165.3
75°	52.5	53.6	54.6	58.1	95.0	193.3	579.2	1385.9	1622.5	1696.1
77.5°	45.2	45.2	46.6	50.0	80.1	159.5	388.6	972.1	1099.3	1174.5
80°	36.7	36.9	36.4	40.1	58.9	109.2	220.8	649.3	731.5	746.0
82.5°	28.1	27.3	27.6	29.4	43.9	74.4	117.7	403.3	411.1	403.1
85°	17.7	17.7	17.2	19.3	28.1	38.8	64.3	247.1	193.0	183.6
87.5°	7.2	5.9	6.7	7.7	13.4	15.8	25.1	50.9	19.5	17.9
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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