

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: P526441

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526441
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-SA1B-827-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA 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: 2340 lumens
Efficiency: N/A
Efficacy: 53.2 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

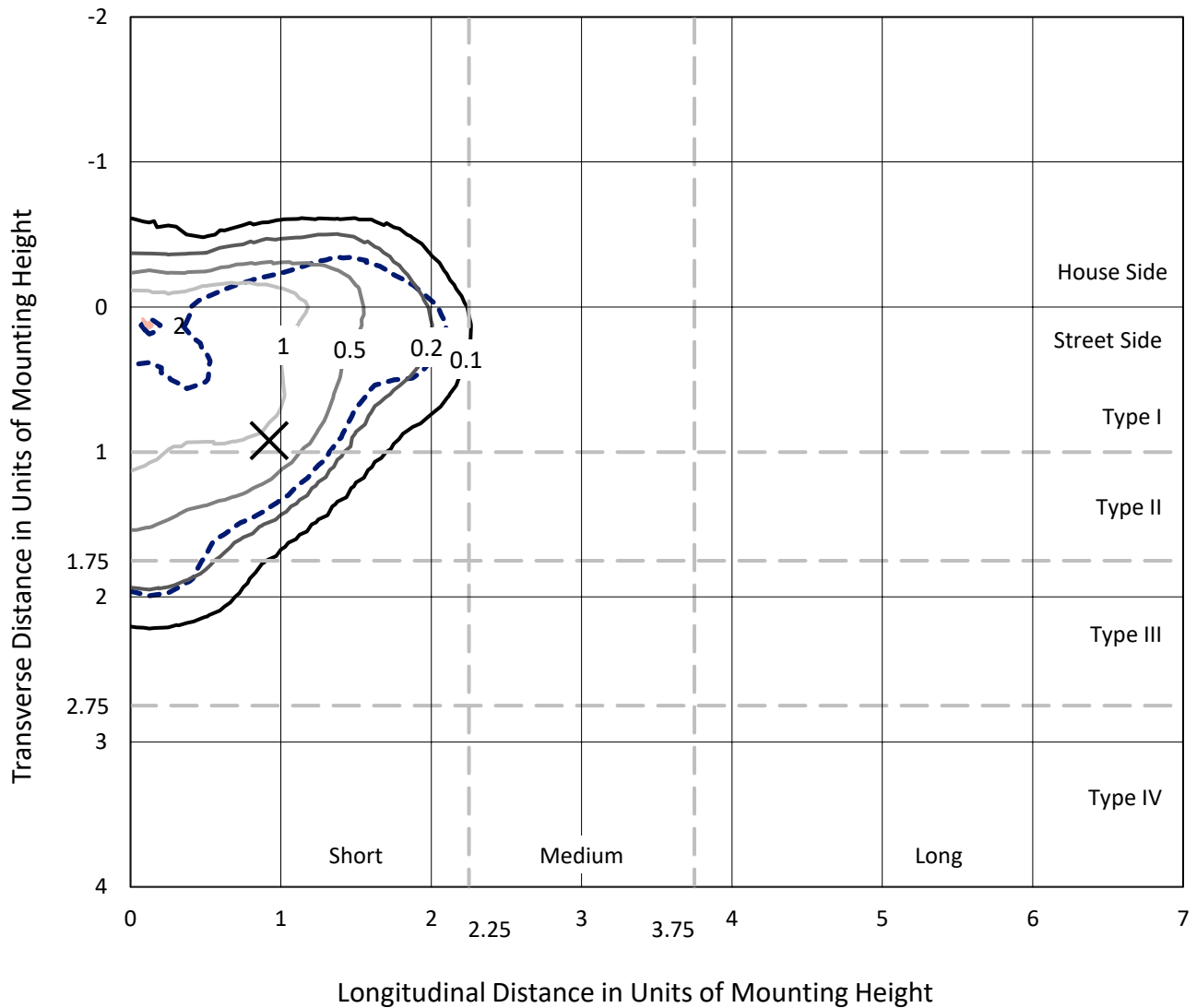
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

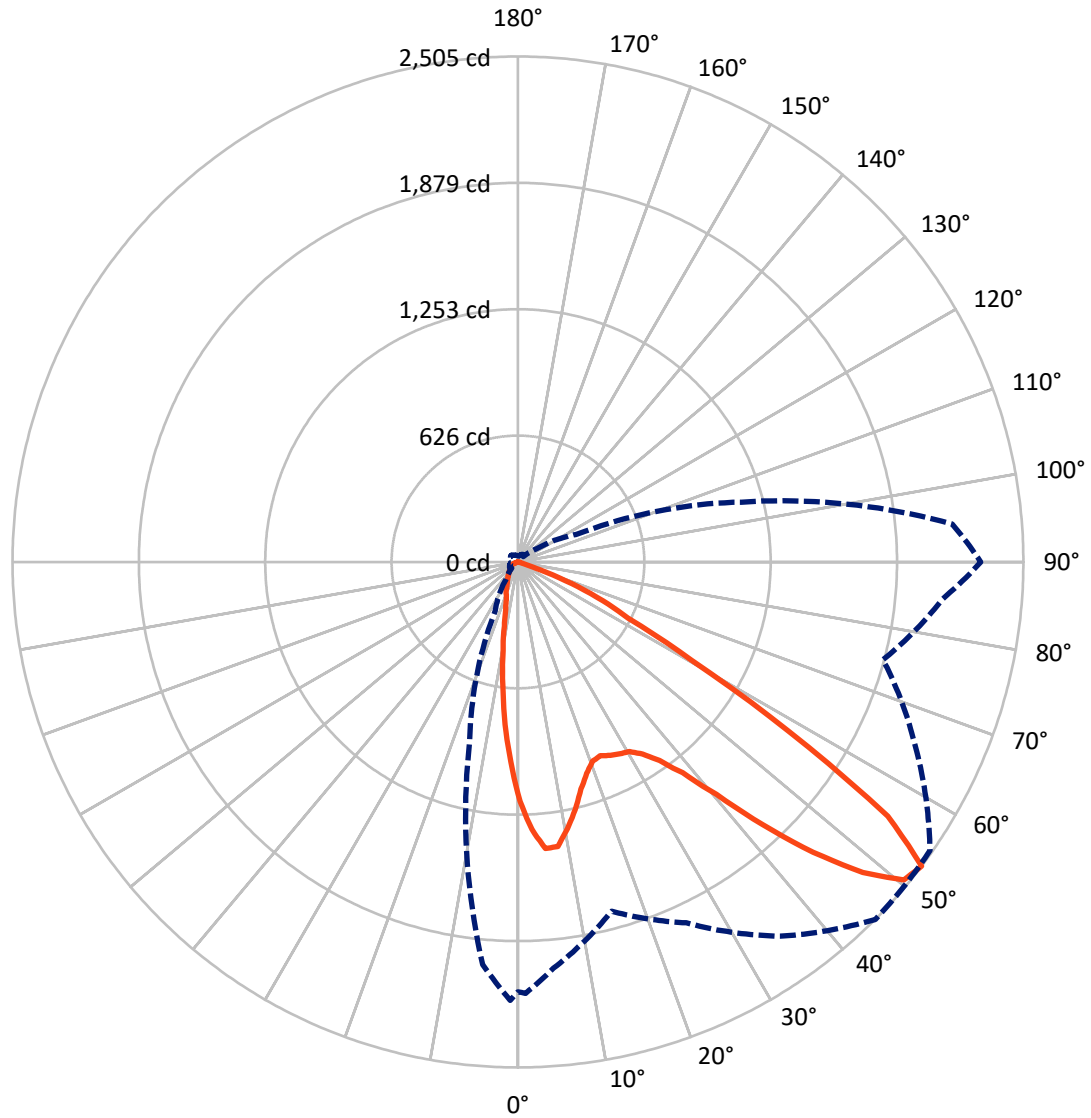
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	474.9	0.0	474.9
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	1865.1	0.0	1865.1
	% Fixture	79.7	0.0	79.7
Total	Lumens	2340.0	0.0	2340.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	3.7
10°-20°	170.7	7.3
20°-30°	259.8	11.1
30°-40°	388.3	16.6
40°-50°	553.0	23.6
50°-60°	594.4	25.4
60°-70°	263.4	11.3
70°-80°	21.3	0.9
80°-90°	2.5	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°	2340.0	100.0
0°-180°	2340.0	100.0

Coefficient of Utilization

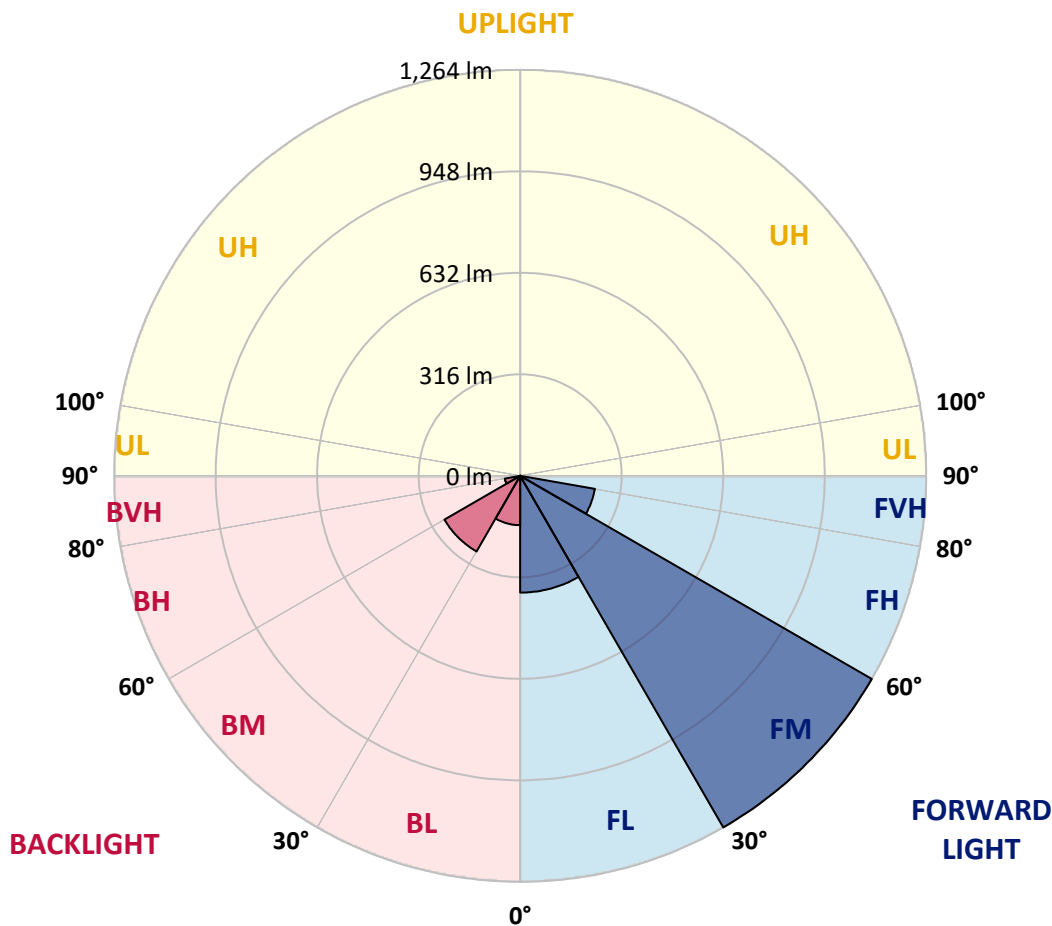


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	363.5	15.5			
FM (30°-60°)	1263.7	54.0			
FH (60°-80°)	236.1	10.1			G0/660
FVH (80°-90°)	1.8	0.1			G0/10
BL (0°-30°)	153.6	6.6	B1/500		
BM (30°-60°)	272.1	11.6	B1/1000		
BH (60°-80°)	48.6	2.1	B0/110		G0/110
BVH (80°-90°)	0.6	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°	1186.5	1186.5	1186.5	1186.5	1186.5	1186.5	1186.5	1186.5	1186.5	1186.5	1186.5
2.5°	1255.5	1259.2	1279.5	1304.8	1318.1	1348.5	1327.3	1332.8	1321.3	1280.8	1249.1
5°	1217.3	1216.9	1242.6	1305.2	1364.6	1424.9	1426.7	1394.5	1337.9	1275.8	1186.9
7.5°	1102.3	1120.2	1146.9	1246.8	1356.8	1401.9	1423.5	1385.8	1298.8	1210.0	1113.8
10°	1015.3	1024.5	1069.6	1190.2	1270.7	1331.0	1344.3	1322.7	1256.0	1145.1	1037.4
12.5°	965.1	969.7	1022.6	1123.9	1209.0	1253.7	1260.1	1270.3	1222.4	1118.4	989.0
15°	965.6	969.3	1040.6	1125.3	1158.9	1146.9	1168.1	1167.6	1188.3	1113.3	1029.5
17.5°	1035.1	1039.2	1103.6	1145.5	1130.8	1102.7	1101.3	1122.5	1166.2	1176.4	1090.8
20°	1154.7	1164.4	1211.8	1209.5	1126.7	1070.0	1054.4	1070.5	1172.2	1229.8	1214.1
22.5°	1315.8	1329.2	1362.3	1298.8	1145.5	1048.0	1042.9	1074.2	1211.8	1349.0	1354.0
25°	1502.7	1525.2	1541.3	1459.9	1212.7	1086.2	1062.2	1116.1	1265.2	1478.3	1532.1
27.5°	1626.5	1649.9	1646.3	1529.8	1257.8	1096.3	1076.0	1126.2	1311.7	1509.1	1625.1
30°	1723.1	1737.4	1763.2	1567.6	1302.9	1124.8	1090.3	1169.0	1326.9	1562.5	1737.4
32.5°	1835.9	1845.5	1847.4	1634.3	1372.4	1160.7	1134.5	1222.4	1394.1	1613.6	1836.8
35°	1949.6	1963.8	1933.9	1716.7	1415.2	1227.4	1208.1	1314.9	1447.9	1666.5	1946.3
37.5°	2072.9	2080.3	2011.2	1750.7	1476.4	1336.1	1325.5	1414.8	1541.3	1762.2	2067.8
40°	2176.5	2183.4	2093.6	1792.6	1540.9	1487.9	1515.1	1605.3	1668.4	1824.4	2128.6
42.5°	2234.0	2250.1	2121.2	1769.6	1670.2	1660.1	1780.7	1812.4	1815.6	1841.9	2182.9
45°	2249.6	2242.3	2075.7	1788.5	1783.4	1943.1	2052.7	2094.5	1962.0	1874.1	2196.7
47.5°	2177.4	2187.0	2008.5	1771.9	1932.1	2157.6	2299.3	2377.1	2071.1	1846.0	2162.6
50°	2118.9	2106.5	1986.8	1759.9	1972.1	2258.8	2477.5	2494.9	2171.4	1880.5	2125.4
52.5°	2130.4	2138.3	2021.4	1791.7	1973.0	2264.8	2505.1	2493.1	2174.6	1872.7	2112.0
55°	2154.8	2120.3	2006.6	1721.7	1840.9	2097.8	2223.4	2205.0	2007.1	1789.4	2079.3
57.5°	1859.4	1912.7	1845.1	1537.2	1511.0	1580.5	1578.1	1634.8	1497.1	1540.0	1893.0
60°	1509.1	1518.3	1543.6	1314.9	1045.7	1021.7	988.6	952.7	1007.5	1316.7	1721.7
62.5°	1327.3	1316.3	1406.5	1196.2	738.2	618.1	612.6	634.7	777.3	1256.0	1615.0
65°	964.7	978.5	1043.8	928.3	554.1	471.7	463.5	528.8	629.1	1006.5	1232.5
67.5°	589.1	615.8	621.8	572.5	376.0	298.7	286.7	346.1	454.3	651.2	722.6
70°	272.0	304.2	334.6	312.5	217.7	122.9	116.0	145.4	229.2	374.6	383.4
72.5°	82.4	82.8	116.0	121.0	70.4	27.6	24.4	32.2	77.8	123.8	130.2
75°	6.0	6.4	15.6	17.9	13.3	6.9	7.4	8.7	16.6	27.6	20.7
77.5°	0.5	0.5	0.5	2.3	4.1	4.6	6.0	6.9	8.7	10.1	9.2
80°	0.5	0.0	0.5	1.8	3.2	4.6	5.5	6.4	6.9	7.8	6.9
82.5°	0.0	0.0	0.0	1.4	3.2	4.6	5.1	6.9	7.8	9.2	7.8
85°	0.0	0.0	0.0	1.4	3.2	5.1	4.6	2.3	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°	1186.5	1186.5	1186.5	1186.5	1186.5	1186.5	1186.5	1186.5	1186.5	1186.5	1186.5
2.5°	1254.6	1236.7	1195.7	1175.0	1126.2	1119.3	1071.4	1063.6	1047.5	1038.8	1017.6
5°	1147.8	1126.2	1059.5	1003.3	938.0	892.4	857.4	825.7	807.3	790.2	798.0
7.5°	1060.8	997.8	923.7	829.8	754.3	705.5	652.2	608.4	582.7	565.2	569.3
10°	969.7	928.8	825.7	720.3	629.1	594.6	552.7	519.1	482.8	451.5	436.8
12.5°	941.2	880.4	751.1	643.9	574.8	541.2	493.4	454.7	408.2	370.0	356.7
15°	946.2	887.8	730.9	616.3	534.8	476.8	419.7	371.9	320.8	294.1	280.3
17.5°	1028.6	927.4	744.2	587.3	479.1	398.6	328.1	267.4	229.2	201.6	195.6
20°	1129.9	1013.0	772.7	566.1	433.5	317.1	239.8	187.3	155.6	151.0	149.6
22.5°	1278.1	1152.9	833.9	551.8	377.9	247.1	164.3	136.2	127.5	126.6	127.0
25°	1485.2	1328.2	900.7	539.9	336.0	190.5	134.4	115.5	112.8	111.4	113.7
27.5°	1574.9	1434.1	936.1	514.1	297.8	171.7	132.5	114.6	106.8	104.5	105.9
30°	1685.8	1504.5	991.8	469.9	241.6	141.3	123.8	124.7	121.0	109.5	105.9
32.5°	1833.1	1592.4	1019.9	438.6	215.9	116.9	90.7	83.3	93.0	94.8	98.0
35°	1927.5	1681.7	1034.2	420.2	202.5	99.9	76.9	70.0	67.7	68.1	70.0
37.5°	2102.8	1802.3	1052.1	400.9	192.4	87.0	69.5	63.1	59.8	59.8	61.7
40°	2207.8	1898.0	1076.5	390.3	182.3	79.2	63.1	57.5	54.8	54.8	55.7
42.5°	2234.0	1945.4	1068.2	386.6	170.7	77.3	57.5	53.4	50.2	49.7	49.2
45°	2280.9	2017.7	1069.6	382.5	158.8	70.4	54.3	49.7	45.1	44.6	44.2
47.5°	2332.5	2069.7	1072.4	366.3	147.3	58.9	56.6	46.0	40.5	39.6	39.6
50°	2288.3	2111.1	1096.3	350.2	132.5	47.9	55.7	43.3	35.9	34.5	35.0
52.5°	2293.8	2159.9	1146.9	327.7	114.1	38.2	45.1	41.0	32.7	30.4	30.8
55°	2205.5	2108.3	1153.8	303.8	89.3	29.5	34.5	35.9	27.6	26.7	26.7
57.5°	1898.5	1785.3	1018.0	246.2	58.9	24.4	24.9	31.3	23.9	23.0	23.5
60°	1624.6	1433.2	819.2	162.5	36.8	19.3	17.9	31.8	21.2	20.7	22.1
62.5°	1481.0	1177.7	621.3	100.8	25.3	14.7	12.4	25.8	18.4	18.4	20.3
65°	1070.0	791.1	361.3	52.9	17.9	11.5	9.2	14.7	15.2	15.6	16.6
67.5°	662.7	399.5	152.3	25.8	12.0	7.8	6.0	9.2	10.1	10.1	11.0
70°	327.2	159.2	50.6	14.7	9.2	6.4	4.1	5.1	5.1	4.6	5.1
72.5°	101.3	47.9	12.9	9.2	6.4	4.1	2.3	1.8	0.9	0.0	0.5
75°	11.5	9.2	8.3	6.4	4.1	1.8	0.5	0.0	0.0	0.0	0.0
77.5°	6.9	7.8	7.8	6.4	4.1	1.4	0.0	0.0	0.0	0.0	0.0
80°	5.5	6.0	6.4	6.0	3.7	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	6.9	7.8	8.7	7.8	5.1	2.3	0.9	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	1.4	0.5	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°	1186.5	1186.5	1186.5	1186.5	1186.5	1186.5	1186.5	1186.5	1186.5	1186.5	1186.5
2.5°	1008.8	998.7	1013.0	991.8	991.3	991.8	985.8	980.3	989.0	1012.5	1014.8
5°	770.0	791.6	798.5	821.1	808.6	790.2	793.9	781.5	811.9	825.2	814.6
7.5°	560.6	559.2	605.7	608.4	614.4	614.9	614.0	589.6	564.7	570.2	586.8
10°	434.9	411.5	434.0	431.7	446.4	442.3	448.3	422.0	430.8	430.8	441.4
12.5°	354.4	329.5	325.4	319.4	325.4	327.7	330.0	324.9	339.7	346.6	353.9
15°	270.6	256.8	253.1	241.6	243.5	249.9	255.4	257.7	253.1	263.7	264.6
17.5°	196.5	196.1	198.4	197.9	196.1	194.7	194.2	188.2	186.4	187.3	191.0
20°	149.1	152.8	160.6	168.4	172.6	167.5	160.6	150.5	146.4	147.3	147.7
22.5°	127.5	133.0	143.6	152.3	156.5	147.3	134.8	126.1	124.3	123.8	123.3
25°	115.5	122.0	129.8	132.5	132.1	126.6	117.4	113.7	112.8	111.8	107.7
27.5°	109.1	111.4	112.8	116.0	117.4	113.7	111.4	105.9	104.9	104.9	102.2
30°	105.4	104.0	105.9	103.6	105.4	102.6	103.1	103.1	100.8	101.7	101.7
32.5°	98.0	98.5	98.5	93.9	95.3	92.0	95.3	98.0	98.5	99.0	102.6
35°	71.8	80.1	84.2	84.2	85.6	83.3	82.8	79.6	75.5	71.3	69.5
37.5°	63.1	66.3	71.8	75.0	77.3	75.5	71.3	66.3	64.0	62.1	60.3
40°	56.1	58.9	62.6	66.3	70.9	68.6	62.1	59.8	57.1	57.1	55.2
42.5°	50.6	52.0	54.3	59.8	64.9	60.3	55.7	53.8	52.5	52.0	51.5
45°	45.6	46.0	48.3	52.9	58.9	54.3	49.7	47.4	47.9	48.3	47.9
47.5°	41.0	41.9	43.3	48.8	52.5	50.2	45.1	43.7	43.7	43.7	44.2
50°	35.4	37.7	40.5	45.1	47.9	46.5	42.3	40.5	39.6	39.6	40.0
52.5°	31.8	33.6	37.3	42.8	46.5	44.2	40.0	37.3	35.4	35.0	35.9
55°	27.6	30.8	36.8	41.0	46.0	43.7	39.1	35.9	32.7	32.2	32.2
57.5°	24.9	29.9	35.4	40.5	44.6	42.8	39.1	35.0	30.8	30.4	30.4
60°	23.5	29.0	34.5	39.1	44.6	41.9	38.7	34.1	29.5	29.5	29.0
62.5°	22.1	27.2	32.7	37.3	42.8	40.5	37.3	32.7	28.1	28.1	27.2
65°	18.4	23.5	27.2	31.3	37.3	35.0	31.8	28.5	24.9	23.9	24.4
67.5°	12.9	16.1	19.8	23.9	27.6	26.7	25.3	23.0	19.8	19.3	18.9
70°	6.4	8.7	12.0	16.1	19.3	18.4	17.5	15.6	13.8	13.3	13.3
72.5°	0.9	2.8	5.1	7.4	10.1	10.6	10.1	9.7	9.2	8.7	9.2
75°	0.0	0.0	0.0	1.8	4.1	5.1	6.0	6.9	6.9	6.0	7.4
77.5°	0.0	0.0	0.0	0.0	0.5	2.3	4.6	6.0	7.4	6.4	8.7
80°	0.0	0.0	0.0	0.0	0.5	2.8	4.6	6.4	7.4	6.4	9.2
82.5°	0.0	0.0	0.0	0.0	0.5	3.2	4.6	6.0	6.9	6.4	8.3
85°	0.0	0.0	0.0	0.0	1.4	2.8	1.8	0.9	0.5	0.5	1.4
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°	1186.5	1186.5	1186.5	1186.5	1186.5	1186.5	1186.5	1186.5	1186.5	1186.5
2.5°	1027.7	1060.4	1095.4	1108.7	1150.1	1181.4	1202.6	1248.2	1255.1	1255.5
5°	825.7	842.2	902.1	930.1	991.8	1039.7	1090.8	1164.4	1213.6	1217.3
7.5°	586.8	632.8	658.1	731.3	807.3	882.3	958.2	1043.8	1100.9	1102.3
10°	472.2	502.1	547.2	602.0	666.0	742.4	843.6	943.0	1001.0	1015.3
12.5°	380.2	432.6	484.2	540.8	589.6	647.1	756.2	888.7	936.6	965.1
15°	292.7	340.6	401.3	467.6	522.8	599.7	724.0	875.4	955.9	965.6
17.5°	215.9	258.7	314.8	377.4	460.2	569.3	729.5	943.0	1019.0	1035.1
20°	155.1	180.0	224.1	296.9	402.2	533.9	735.0	1011.6	1127.1	1154.7
22.5°	122.9	133.0	162.0	226.4	337.4	496.6	774.1	1142.8	1275.8	1315.8
25°	106.8	112.3	126.1	178.6	296.4	492.9	836.7	1300.2	1473.7	1502.7
27.5°	103.1	104.0	116.0	163.8	274.3	468.5	860.6	1412.0	1597.0	1626.5
30°	108.6	123.3	124.3	138.5	233.3	420.2	873.1	1520.2	1701.5	1723.1
32.5°	93.9	89.3	92.5	107.2	205.3	392.1	896.5	1614.5	1820.7	1835.9
35°	65.4	68.6	75.9	93.0	179.5	362.7	902.5	1718.5	1933.9	1949.6
37.5°	60.3	62.1	68.1	79.2	157.9	346.1	894.2	1794.5	2051.3	2072.9
40°	56.1	58.4	61.7	71.8	141.8	327.7	882.7	1863.0	2123.1	2176.5
42.5°	52.9	54.8	57.5	68.6	127.9	309.3	866.6	1959.7	2187.5	2234.0
45°	49.2	52.0	55.2	66.7	120.1	296.9	854.7	1953.7	2224.8	2249.6
47.5°	45.6	50.2	53.8	62.1	117.8	290.9	859.7	1931.2	2194.4	2177.4
50°	41.9	47.9	54.3	51.5	112.3	278.9	865.7	1962.0	2122.1	2118.9
52.5°	38.7	45.6	50.6	42.3	99.9	267.4	923.7	2002.5	2173.2	2130.4
55°	34.1	41.0	40.5	34.1	81.0	258.7	969.3	2003.4	2138.7	2154.8
57.5°	30.8	36.4	31.8	28.5	59.8	216.3	895.2	1679.9	1830.8	1859.4
60°	28.5	35.4	23.9	22.6	39.1	156.0	781.5	1301.1	1455.3	1509.1
62.5°	26.2	33.6	18.9	18.4	27.2	110.9	642.5	1088.9	1254.1	1327.3
65°	23.0	23.9	15.2	14.3	19.3	59.8	391.2	749.7	937.5	964.7
67.5°	18.9	18.4	12.4	11.5	12.9	29.0	172.6	375.6	543.5	589.1
70°	15.2	15.2	10.6	9.2	9.2	13.3	45.1	149.6	245.8	272.0
72.5°	11.0	11.5	8.3	7.4	6.9	6.4	7.4	29.9	64.4	82.4
75°	9.7	10.1	8.3	6.4	5.1	4.1	3.2	2.8	3.7	6.0
77.5°	10.6	10.6	8.7	6.0	4.6	3.2	1.8	0.9	0.9	0.5
80°	13.3	13.8	11.5	7.8	5.5	3.7	2.3	0.9	0.5	0.5
82.5°	14.3	15.6	12.9	9.7	6.9	4.1	2.3	0.5	0.0	0.0
85°	3.7	6.0	10.1	8.7	6.9	4.1	2.3	0.5	0.0	0.0
87.5°	0.0	0.5	1.4	1.4	1.8	1.8	1.4	0.5	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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