

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: P648218

Luminaire Tested: **GALN-SA1B-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-835-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2492.3 lumens
Efficiency: N/A
Efficacy: 56.6 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

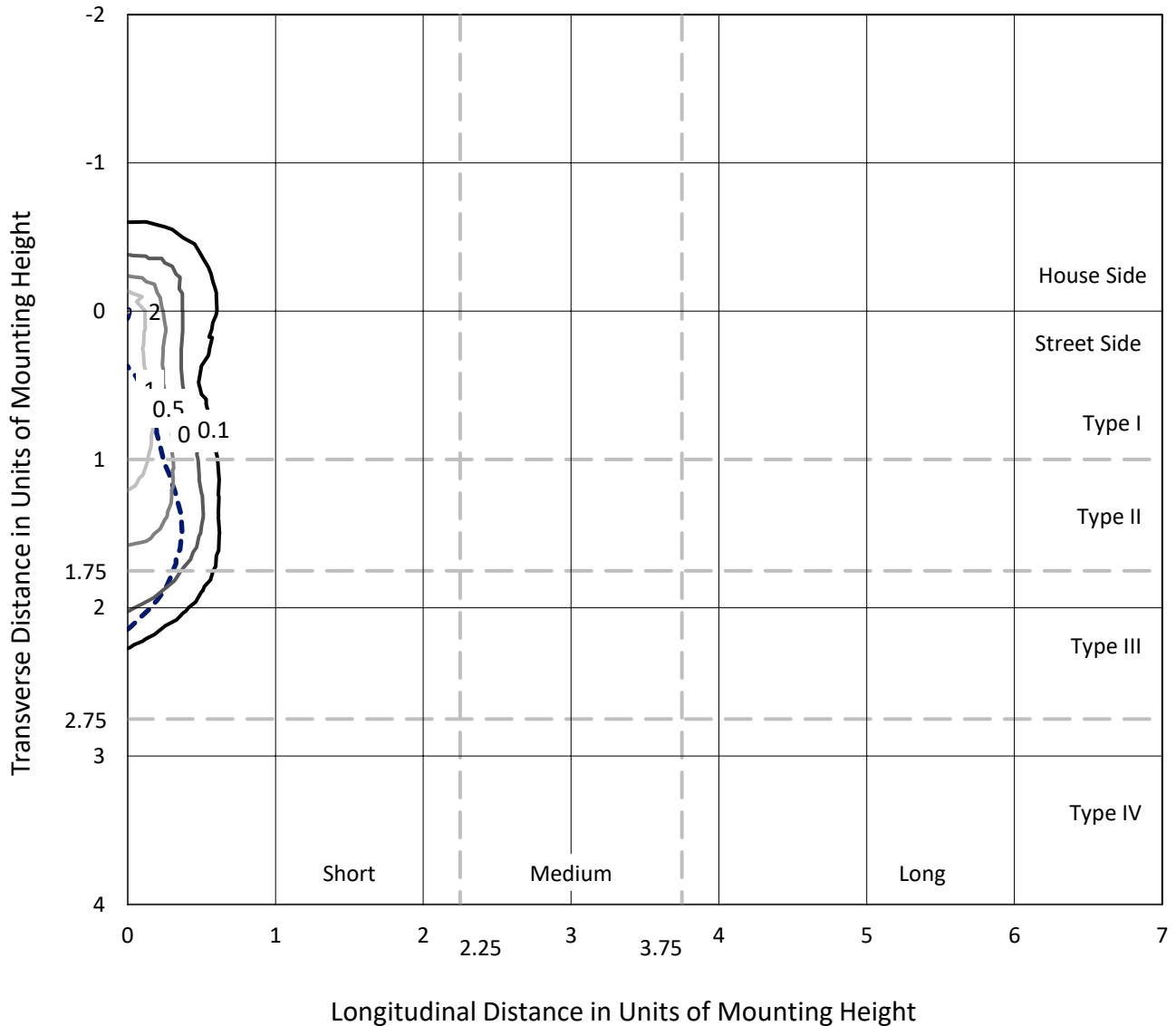
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

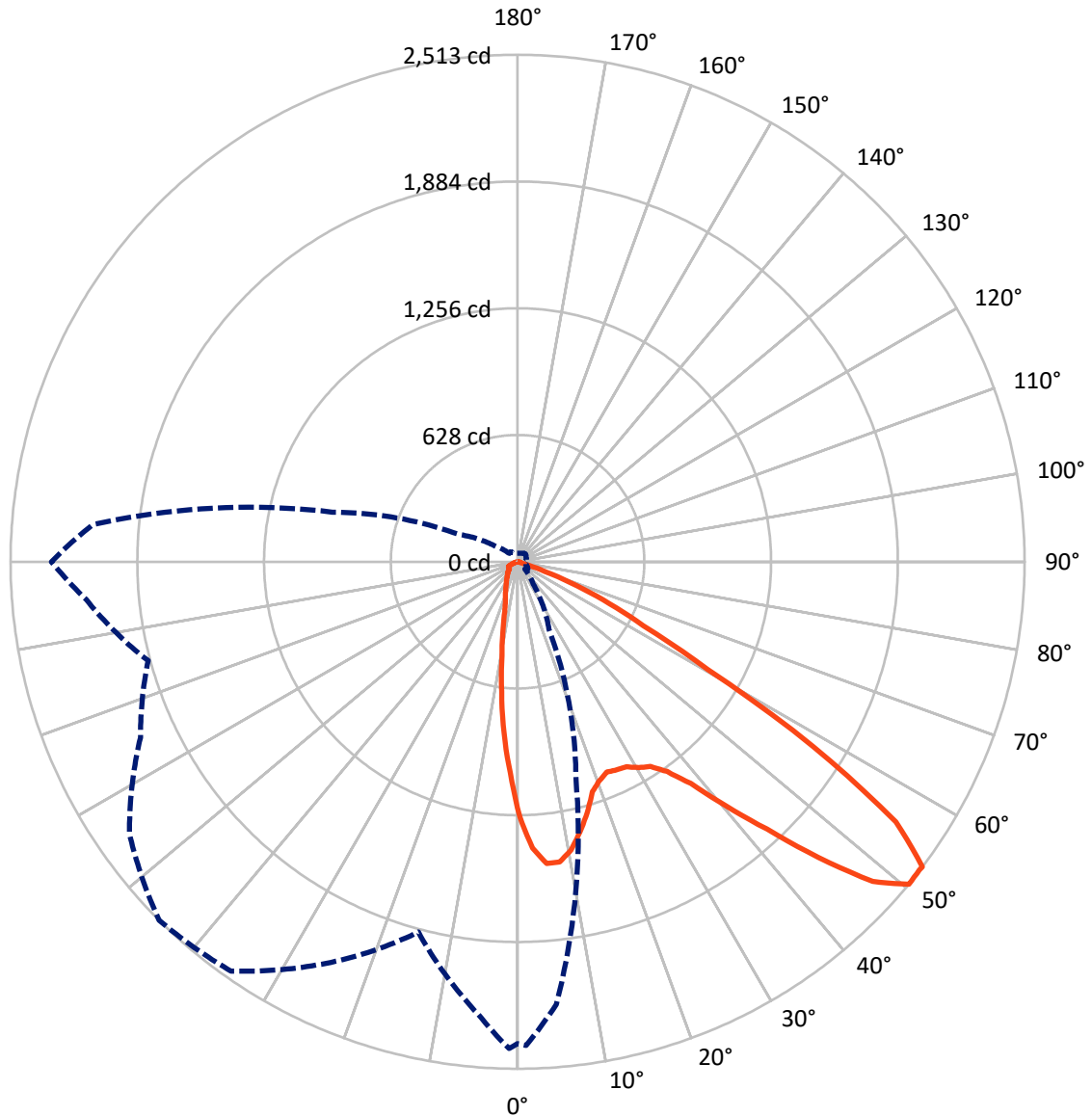
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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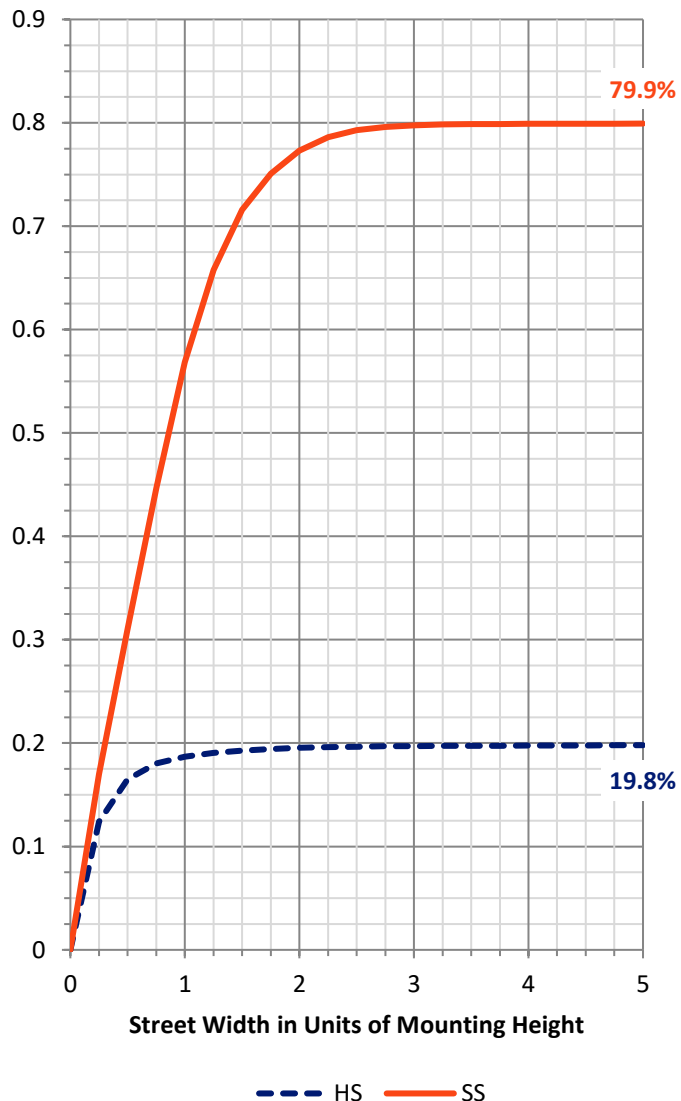
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	499.2	0.0	499.2
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	1993.1	0.0	1993.1
	% Fixture	80.0	0.0	80.0
Total	Lumens	2492.3	0.0	2492.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	3.7
10°-20°	183.1	7.3
20°-30°	275.1	11.0
30°-40°	412.9	16.6
40°-50°	580.2	23.3
50°-60°	625.9	25.1
60°-70°	290.6	11.7
70°-80°	27.3	1.1
80°-90°	5.0	0.2
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°	2492.3	100.0
0°-180°	2492.3	100.0

Coefficient of Utilization

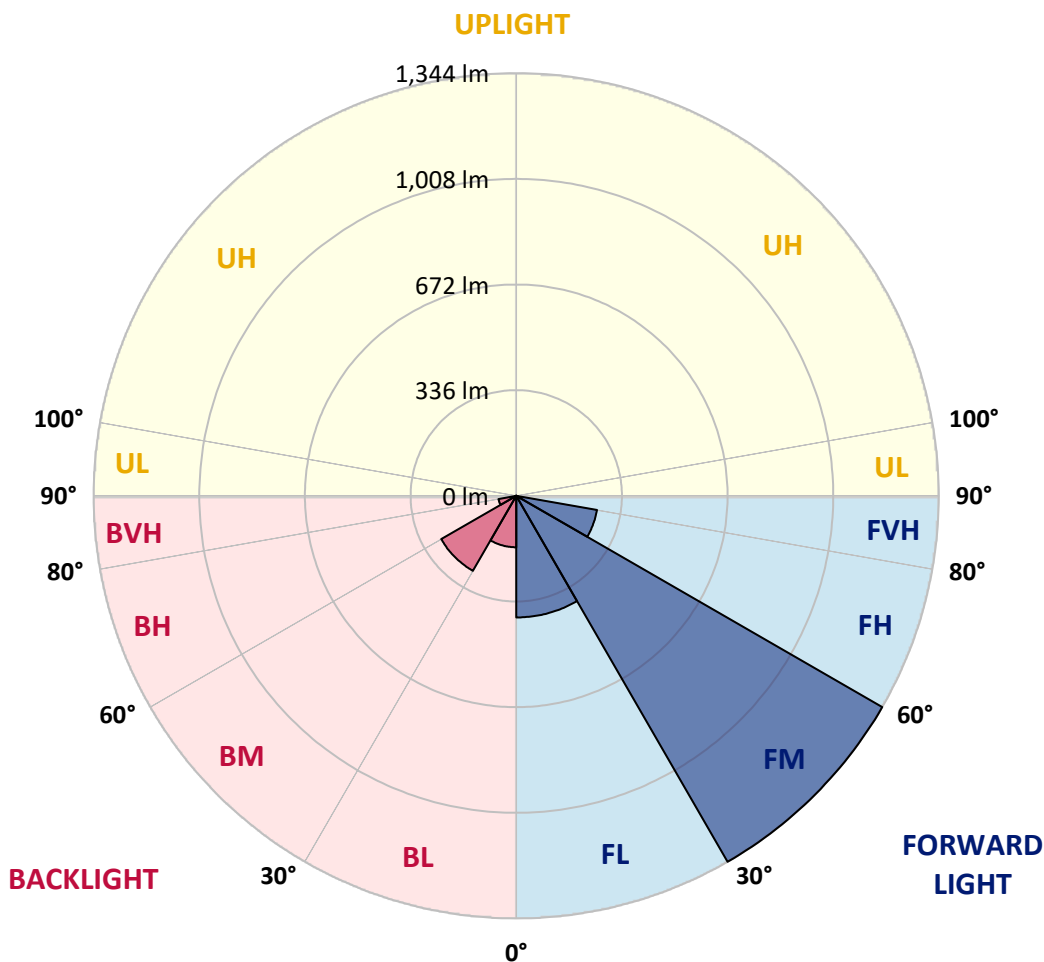


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	386.7	15.5			
FM (30°-60°)	1343.5	53.9			
FH (60°-80°)	260.6	10.5			G0/660
FVH (80°-90°)	2.3	0.1			G0/10
BL (0°-30°)	163.6	6.6	B1/500		
BM (30°-60°)	275.5	11.1	B1/1000		
BH (60°-80°)	57.3	2.3	B0/110		G0/110
BVH (80°-90°)	2.8	0.1			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°	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9
2.5°	1313.9	1293.6	1267.8	1246.6	1215.0	1151.2	1133.9	1113.1	1095.8	1072.6	1039.9
5°	1194.7	1188.3	1176.4	1096.3	1038.4	961.3	898.0	871.3	836.2	807.5	786.8
7.5°	1103.7	1078.0	1040.4	959.8	867.3	784.7	714.6	673.5	627.0	611.2	583.0
10°	1006.3	1012.2	956.8	843.6	731.9	665.1	621.5	582.0	540.0	512.3	472.2
12.5°	975.1	955.8	913.3	773.4	677.9	615.7	562.7	513.8	469.3	424.8	386.2
15°	995.4	965.8	906.4	758.6	636.4	558.7	492.5	426.3	385.2	328.3	288.3
17.5°	1068.1	1044.4	964.7	774.4	615.1	504.4	406.0	337.7	274.9	223.5	203.3
20°	1189.2	1155.6	1055.7	794.7	583.5	438.6	329.3	245.2	186.0	164.2	152.8
22.5°	1307.9	1289.6	1163.5	833.7	555.3	380.2	247.3	165.1	139.0	135.0	127.6
25°	1533.9	1479.0	1328.2	904.4	533.5	325.3	186.4	133.0	117.7	114.7	115.7
27.5°	1668.4	1622.4	1480.5	951.4	509.3	283.4	157.8	122.1	111.7	105.3	102.9
30°	1797.5	1744.1	1556.1	979.1	457.4	238.8	139.9	117.2	114.7	105.3	102.3
32.5°	1896.8	1844.4	1665.4	1020.6	436.1	210.2	115.2	91.5	85.0	84.1	92.9
35°	2049.1	1993.3	1758.9	1043.3	419.8	195.4	99.9	81.6	74.2	71.2	71.7
37.5°	2191.1	2153.0	1845.5	1052.3	402.5	190.9	89.5	73.2	66.8	64.8	64.3
40°	2309.8	2224.7	1927.5	1061.7	395.1	182.4	83.1	66.8	62.3	59.4	59.4
42.5°	2364.1	2277.6	2019.5	1056.2	393.1	169.1	83.1	61.3	57.9	54.9	54.4
45°	2352.3	2317.1	2060.5	1053.8	393.1	155.7	75.6	59.8	54.9	50.9	50.0
47.5°	2382.9	2336.9	2112.0	1064.1	385.2	146.3	63.8	62.8	51.9	47.0	46.0
50°	2388.4	2397.2	2201.5	1118.0	367.9	134.5	50.0	61.8	50.0	42.5	41.5
52°	2423.9	2368.6	2228.7	1146.7	349.6	125.6	42.0	52.9	48.0	39.5	38.6
52.5°	2375.0	2411.1	2235.1	1157.1	351.6	119.6	40.6	51.9	47.0	39.5	37.1
55°	2320.1	2354.7	2208.8	1179.4	322.4	94.0	31.6	37.6	42.5	34.6	33.1
57.5°	2016.5	2051.6	1919.6	1080.0	262.5	66.2	26.2	28.2	37.6	32.1	30.7
60°	1792.5	1767.3	1611.0	900.9	186.4	37.1	20.7	21.8	41.0	29.7	29.2
62.5°	1638.2	1584.3	1346.4	695.8	113.8	24.7	16.3	16.8	31.6	27.7	27.7
65°	1212.0	1151.6	894.5	420.8	55.9	17.3	12.4	13.4	19.8	23.7	23.7
67.5°	691.8	668.5	432.2	189.9	23.3	10.9	9.4	10.4	15.3	19.3	18.3
70°	318.0	285.3	166.2	40.1	10.9	7.4	7.4	8.4	12.4	14.3	13.4
72.5°	92.9	88.0	40.6	6.4	4.5	4.5	4.9	6.4	9.4	10.9	9.9
75°	6.9	4.5	3.0	2.0	2.0	3.0	4.0	6.4	9.4	10.4	8.4
77.5°	0.5	1.0	0.5	0.5	1.5	3.0	4.5	7.9	12.4	12.8	9.4
80°	0.5	0.5	0.0	0.5	1.5	3.0	4.9	8.9	13.9	14.8	7.9
82.5°	0.0	0.0	0.0	0.5	2.0	4.0	6.0	9.4	12.8	15.8	8.4
85°	0.0	0.0	0.0	0.5	3.0	5.4	6.9	2.5	1.5	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°	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9
2.5°	1063.2	1050.3	1045.3	1049.8	1048.3	1046.8	1074.0	1068.1	1067.1	1076.0	1074.0
5°	798.1	775.3	837.7	812.4	838.7	854.5	857.5	859.0	877.2	857.9	883.1
7.5°	568.7	574.6	574.1	590.9	621.1	647.8	663.6	651.2	650.3	647.8	636.9
10°	454.5	444.0	442.1	438.1	447.5	470.3	489.5	474.2	463.3	478.2	473.7
12.5°	371.4	357.0	349.1	333.2	333.8	349.1	349.1	349.1	360.0	368.4	374.8
15°	284.9	273.0	273.0	257.1	253.7	254.2	262.1	263.1	280.4	285.3	287.8
17.5°	199.3	192.9	200.3	206.7	202.7	203.7	206.7	207.7	210.2	208.2	213.1
20°	153.3	152.3	154.3	165.7	174.1	179.0	175.5	170.6	167.6	160.7	160.7
22.5°	130.1	132.0	135.5	144.9	155.7	158.7	154.8	143.4	134.5	133.5	134.0
25°	115.7	117.7	123.2	129.0	135.0	139.9	136.0	127.6	122.6	118.2	118.2
27.5°	106.8	107.8	110.8	115.2	120.2	124.1	122.6	118.2	112.8	110.8	106.3
30°	99.9	101.4	104.8	105.8	110.2	112.3	109.8	108.8	105.3	102.9	101.4
32.5°	96.4	95.9	98.4	99.4	99.9	101.4	98.4	99.9	99.4	95.4	94.0
35°	72.7	76.7	83.1	88.5	90.0	92.0	91.5	89.5	84.1	79.6	74.2
37.5°	65.3	67.7	71.2	75.6	81.6	84.1	83.1	78.1	71.7	68.7	67.7
40°	60.3	61.8	64.8	67.7	73.7	78.1	74.7	70.2	65.3	62.8	61.3
42.5°	55.9	56.4	57.9	60.8	65.3	72.2	66.2	60.3	58.3	56.8	55.9
45°	50.9	50.9	52.9	54.4	59.4	65.8	59.8	54.4	53.4	52.4	51.9
47.5°	47.0	47.4	48.5	50.4	54.4	58.9	54.9	50.4	48.0	47.4	46.5
50°	42.0	42.5	44.5	46.5	51.4	53.9	51.4	46.5	44.0	42.5	42.5
52°	38.1	39.5	41.5	45.5	48.9	52.9	50.0	44.5	41.5	40.1	39.1
52.5°	37.6	38.6	40.6	45.0	48.9	52.4	49.5	44.0	40.6	39.5	38.6
55°	33.6	35.1	38.6	44.0	48.5	52.4	48.5	43.5	38.6	36.1	35.1
57.5°	32.1	33.1	37.6	44.5	48.0	52.4	48.5	43.5	38.6	34.1	33.1
60°	30.7	32.7	37.6	43.0	47.4	52.9	48.9	43.0	37.6	32.1	32.1
62.5°	29.2	30.7	37.1	42.0	45.5	50.9	47.0	42.0	36.1	30.7	30.1
65°	25.2	27.7	32.7	35.1	39.1	44.0	40.1	36.6	31.6	27.2	26.7
67.5°	19.3	20.3	24.2	27.2	29.7	34.1	32.1	27.7	24.2	20.7	20.7
70°	13.4	14.3	17.3	18.8	21.3	23.7	22.2	18.8	16.3	14.3	13.9
72.5°	9.4	9.9	10.9	11.9	12.8	13.9	13.4	10.9	9.4	8.9	8.4
75°	7.4	8.4	8.9	8.4	7.9	7.4	7.4	6.4	5.4	4.9	4.9
77.5°	7.4	7.9	7.4	6.4	5.4	4.9	4.5	4.0	3.0	2.5	3.0
80°	6.4	6.4	6.4	5.4	4.9	4.5	4.0	3.4	3.0	2.5	2.5
82.5°	6.9	6.9	6.4	5.4	5.4	4.5	4.5	4.0	3.4	2.5	2.5
85°	0.0	0.0	0.0	1.0	2.5	4.5	4.5	4.0	3.4	3.0	3.0
87.5°	0.0	0.0	0.0	0.0	0.5	1.0	2.0	2.5	3.0	3.0	3.0
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°	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9
2.5°	1091.8	1110.6	1146.2	1181.8	1203.5	1229.3	1275.7	1300.5	1332.7	1348.5	1379.6
5°	879.7	924.2	940.0	980.6	1024.1	1067.6	1136.8	1212.9	1276.3	1319.7	1376.1
7.5°	641.8	652.2	713.5	740.7	812.0	891.1	985.5	1081.4	1161.6	1232.8	1275.7
10°	481.2	519.2	557.8	609.7	667.0	748.6	839.1	944.9	1048.8	1120.0	1174.4
12.5°	386.7	416.9	468.3	524.1	594.8	648.8	739.8	844.5	979.1	1048.8	1120.5
15°	292.8	331.3	389.6	447.5	522.2	579.0	671.0	803.0	976.1	1072.0	1133.9
17.5°	217.0	243.3	295.7	360.5	436.6	516.7	640.9	798.6	1009.2	1123.4	1187.3
20°	166.2	175.1	208.2	266.1	348.6	453.4	591.9	817.8	1107.2	1248.6	1313.3
22.5°	134.5	138.4	151.3	191.4	271.5	398.1	568.7	831.2	1217.4	1398.4	1485.0
25°	117.2	116.2	124.6	141.9	212.1	346.2	539.0	881.7	1352.4	1574.5	1652.1
27.5°	106.8	106.8	110.8	123.2	176.0	312.5	520.2	917.8	1488.4	1729.2	1771.2
30°	101.4	102.3	113.8	117.7	146.3	272.5	489.1	954.3	1618.5	1828.1	1885.9
32.5°	94.0	90.0	87.5	97.4	123.2	236.4	457.9	969.7	1723.8	1949.3	1998.7
35°	72.2	70.2	73.2	80.6	105.8	205.7	423.3	987.0	1844.9	2089.7	2099.6
37.5°	65.3	64.8	66.8	73.2	89.0	179.0	398.5	982.5	1937.4	2205.9	2179.2
40°	60.3	60.3	61.8	67.3	79.6	160.2	372.9	978.6	2026.9	2336.5	2258.3
42.5°	56.4	56.4	58.9	62.3	75.6	147.8	353.5	973.1	2102.0	2416.6	2304.8
45°	50.9	52.4	56.4	59.8	76.7	139.5	339.2	952.4	2127.8	2415.6	2282.5
47.5°	47.0	48.9	52.9	57.9	69.2	136.9	329.3	934.1	2118.9	2356.2	2212.8
50°	42.5	45.0	50.4	58.9	58.9	132.0	318.9	950.4	2112.5	2310.2	2146.0
52°	39.5	41.5	48.5	57.4	51.4	121.7	312.5	982.0	2138.7	2304.3	2116.4
52.5°	39.1	40.6	47.0	56.4	48.9	119.6	308.0	989.5	2147.1	2289.5	2136.7
55°	34.6	36.6	43.0	44.0	40.1	98.4	293.7	1006.3	2105.5	2260.3	2117.4
57.5°	32.7	33.6	38.1	36.1	34.6	74.2	252.7	980.1	1870.1	2007.6	1970.0
60°	30.1	31.2	35.6	28.2	29.2	51.9	189.9	851.0	1501.7	1672.9	1740.6
62.5°	29.2	28.7	33.6	22.8	24.7	37.6	134.0	691.8	1157.1	1377.1	1494.4
65°	25.7	25.2	24.2	19.3	21.3	29.2	80.1	451.5	815.4	1041.9	1106.1
67.5°	19.8	20.7	17.8	15.3	17.8	22.8	44.5	202.2	427.8	625.0	677.0
70°	13.9	14.8	14.3	13.4	15.8	18.8	25.7	69.2	177.0	328.3	362.0
72.5°	8.4	10.4	10.9	11.4	13.9	16.3	18.3	22.2	47.0	116.2	144.4
75°	4.9	6.9	8.4	9.9	11.4	13.9	15.3	15.8	16.3	21.8	35.1
77.5°	3.4	4.9	7.4	9.4	11.4	13.9	16.3	17.3	16.3	15.3	16.3
80°	3.0	4.9	6.9	8.9	11.9	14.3	16.3	16.3	15.8	13.9	14.8
82.5°	3.0	4.9	7.4	9.4	11.4	13.9	15.8	16.3	14.8	13.9	14.3
85°	3.4	5.4	7.9	9.9	12.4	11.4	10.4	8.4	7.9	6.4	6.9
87.5°	3.4	4.9	4.9	5.4	6.0	6.0	6.0	5.4	4.5	4.0	4.0
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°	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9
2.5°	1381.1	1420.7	1419.2	1420.1	1414.3	1374.2	1354.9	1306.0	1319.7	1313.9
5°	1434.0	1473.1	1506.7	1502.7	1457.2	1402.8	1322.3	1246.1	1225.3	1194.7
7.5°	1381.1	1475.0	1506.2	1501.7	1434.5	1364.8	1236.2	1160.1	1124.0	1103.7
10°	1297.0	1405.8	1444.4	1452.3	1406.8	1301.0	1182.8	1060.7	1041.4	1006.3
12.5°	1249.0	1328.2	1351.9	1373.1	1357.3	1278.2	1142.2	1025.1	998.4	975.1
15°	1210.0	1256.9	1266.9	1291.1	1300.5	1258.0	1163.5	1063.6	997.9	995.4
17.5°	1246.1	1226.8	1190.7	1198.1	1227.8	1258.4	1218.4	1139.8	1076.0	1068.1
20°	1306.0	1220.9	1139.3	1157.6	1182.3	1276.3	1301.5	1246.1	1209.5	1189.2
22.5°	1374.6	1231.3	1123.0	1131.9	1178.9	1316.3	1436.0	1405.3	1337.1	1307.9
25°	1501.7	1259.9	1135.8	1141.8	1206.1	1372.2	1557.6	1580.4	1539.8	1533.9
27.5°	1625.9	1334.2	1164.0	1150.7	1219.9	1426.6	1631.3	1753.5	1682.3	1668.4
30°	1689.2	1394.4	1206.1	1183.3	1277.2	1459.7	1675.8	1866.2	1803.9	1797.5
32.5°	1786.1	1449.3	1238.7	1209.5	1309.4	1500.8	1758.9	1989.3	1929.0	1896.8
35°	1826.7	1509.2	1310.4	1276.3	1401.3	1558.1	1801.4	2099.1	2080.3	2049.1
37.5°	1904.7	1573.4	1394.9	1393.0	1512.6	1632.8	1878.0	2248.5	2244.9	2191.1
40°	1911.2	1643.7	1528.4	1590.7	1684.7	1762.8	1945.3	2290.0	2346.3	2309.8
42.5°	1921.1	1766.8	1759.4	1810.8	1891.4	1874.6	1947.8	2299.8	2385.9	2364.1
45°	1925.6	1889.9	1994.2	2089.2	2122.8	2020.9	1924.5	2281.0	2406.6	2352.3
47.5°	1889.9	1995.7	2184.2	2367.6	2377.5	2111.0	1914.7	2261.8	2419.0	2382.9
50°	1894.9	2062.0	2348.3	2512.5	2476.4	2190.6	1899.3	2249.9	2412.6	2388.4
52°	1883.0	2063.5	2371.6	2509.5	2484.3	2146.6	1873.1	2204.4	2406.6	2423.9
52.5°	1896.3	2054.6	2347.4	2511.5	2478.8	2168.3	1869.6	2229.7	2410.2	2375.0
55°	1850.4	1948.7	2205.4	2275.2	2270.2	1968.1	1763.3	2146.0	2319.6	2320.1
57.5°	1672.3	1689.2	1729.7	1728.2	1705.5	1547.2	1508.2	1973.5	2067.9	2016.5
60°	1473.5	1236.7	1127.4	1082.9	1057.7	1032.0	1334.2	1805.4	1814.3	1792.5
62.5°	1273.3	857.5	712.1	699.7	705.6	799.6	1289.6	1738.6	1685.2	1638.2
65°	1027.5	625.0	517.2	500.9	558.7	660.1	1043.9	1333.1	1251.1	1212.0
67.5°	645.3	455.9	349.6	318.9	388.7	454.5	685.8	837.7	745.7	691.8
70°	382.7	254.6	158.2	141.9	159.7	242.3	384.2	417.8	345.6	318.0
72.5°	150.8	93.5	44.0	37.6	39.1	85.0	141.4	138.0	104.4	92.9
75°	40.6	28.2	15.3	12.4	10.4	15.8	22.8	14.8	5.4	6.9
77.5°	18.8	16.8	13.4	10.4	7.9	6.0	3.0	1.0	1.0	0.5
80°	16.3	14.3	12.4	10.4	7.9	4.9	2.5	0.5	0.5	0.5
82.5°	15.3	13.4	11.4	9.4	7.4	4.9	2.5	0.5	0.0	0.0
85°	6.4	8.4	9.4	8.9	7.9	4.9	2.5	0.5	0.0	0.0
87.5°	3.4	3.0	2.5	2.0	1.5	1.0	1.0	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

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