

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: P647724

Luminaire Tested: **GALN-SA1A-835-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-835-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2699 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

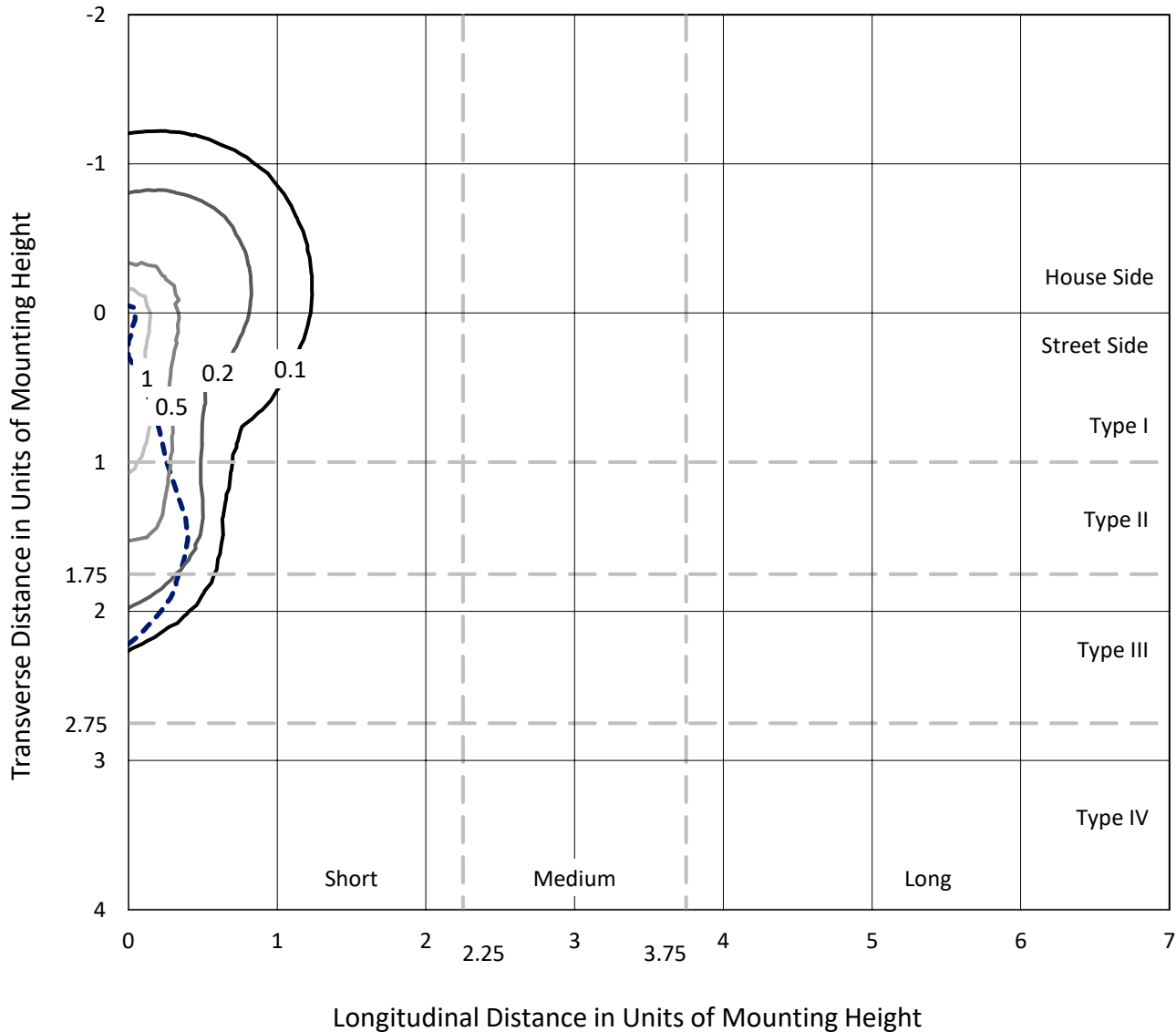
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

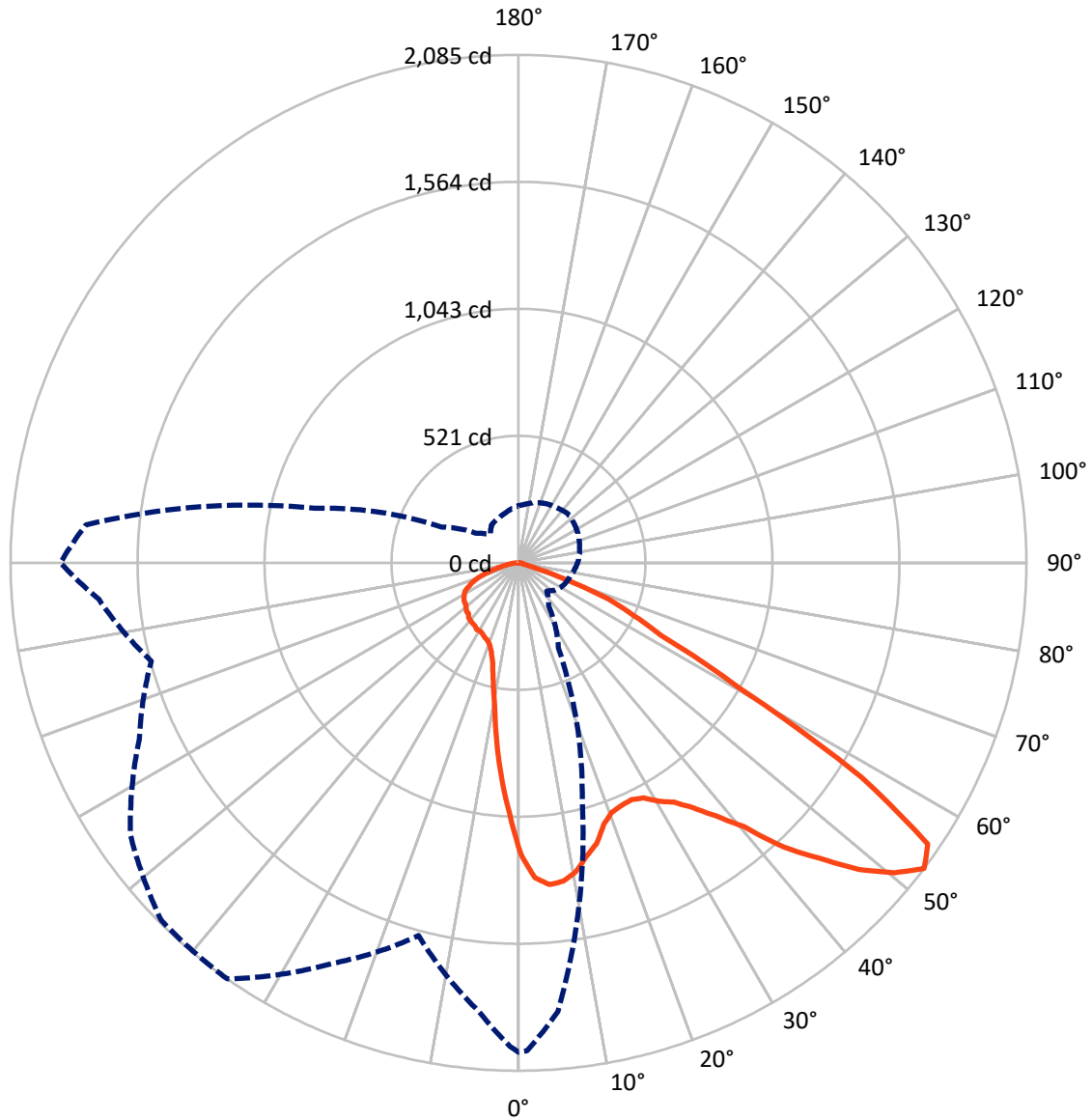
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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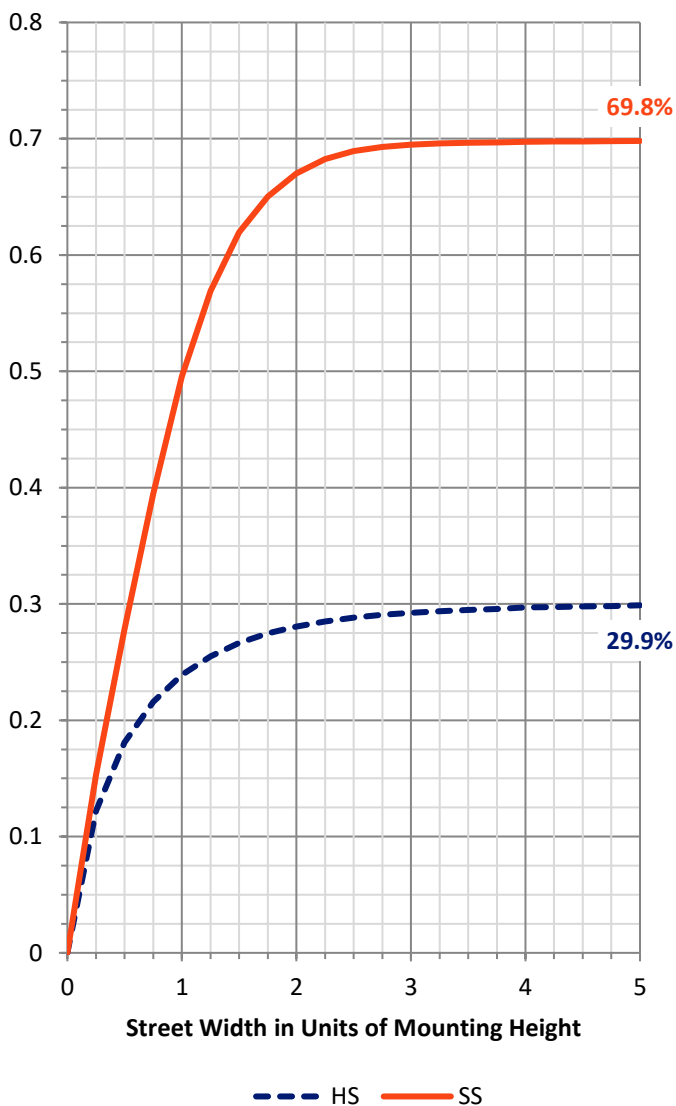
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	813.6	0.0	813.6
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	1885.4	0.0	1885.4
	% Fixture	69.9	0.0	69.9
Total	Lumens	2699.0	0.0	2699.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	3.4
10°-20°	198.1	7.3
20°-30°	299.3	11.1
30°-40°	432.5	16.0
40°-50°	575.6	21.3
50°-60°	643.9	23.9
60°-70°	362.9	13.4
70°-80°	80.9	3.0
80°-90°	14.4	0.5
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°	2699.0	100.0
0°-180°	2699.0	100.0

Coefficient of Utilization



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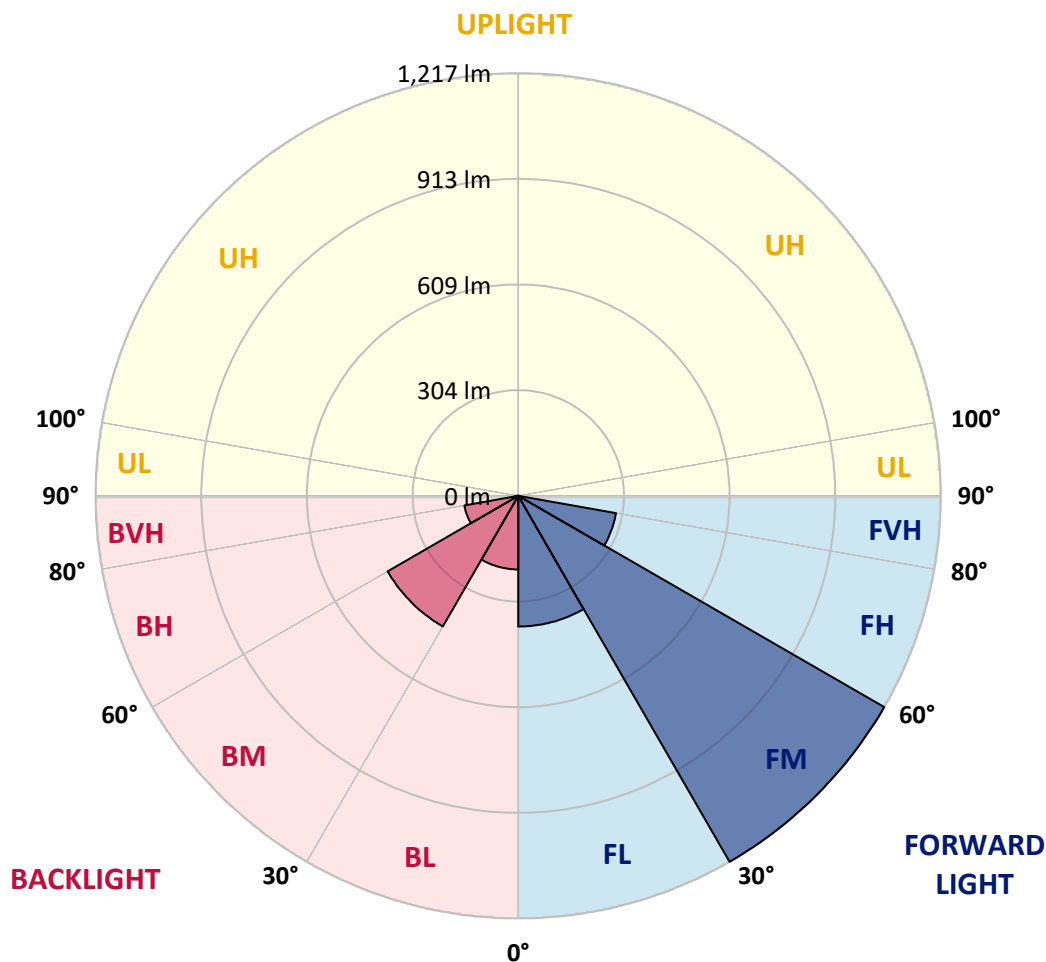
CATALOG NUMBER: GALN-SA1A-835-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	376.6	14.0			
FM (30°-60°)	1217.5	45.1			
FH (60°-80°)	286.1	10.6			G0/660
FVH (80°-90°)	5.2	0.2			G0/10
BL (0°-30°)	212.2	7.9	B1/500		
BM (30°-60°)	434.6	16.1	B1/1000		
BH (60°-80°)	157.7	5.8	B1/500		G1/500
BVH (80°-90°)	9.2	0.3			G0/10
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1217.8	1237.4	1216.2	1178.6	1152.0	1127.8	1102.4	1097.3	1064.0	1058.1	1034.0
5°	1148.5	1144.3	1118.4	1069.1	1014.8	965.4	929.1	893.9	870.0	842.3	840.3
7.5°	1064.4	1039.4	1024.6	949.8	882.5	805.1	771.8	718.2	701.4	676.4	663.4
10°	989.3	970.9	936.2	861.4	767.5	716.3	680.7	651.7	632.2	606.4	573.9
12.5°	952.1	944.8	905.6	789.8	720.2	665.4	640.4	612.2	579.0	537.5	521.5
15°	958.8	933.8	904.1	776.1	679.9	627.1	587.2	551.9	509.3	469.8	446.8
17.5°	1008.5	989.3	929.9	784.7	664.6	588.3	516.0	463.9	425.6	390.0	374.0
20°	1106.3	1078.5	1011.6	795.7	631.8	534.4	451.4	387.3	346.2	327.5	322.0
22.5°	1214.7	1198.2	1091.4	820.3	605.6	484.3	383.0	318.8	303.6	298.5	308.7
25°	1346.5	1303.9	1215.5	860.6	585.2	441.7	325.1	289.5	281.6	286.7	298.5
27.5°	1446.7	1435.3	1302.3	898.6	557.4	390.4	292.6	269.1	271.5	276.6	287.5
30°	1565.5	1508.1	1386.4	924.8	532.4	355.2	269.9	263.6	266.0	274.6	280.1
32.5°	1637.2	1615.6	1439.2	964.3	503.5	324.7	252.3	246.5	249.9	262.9	275.8
35°	1728.3	1685.6	1504.5	974.4	483.1	312.6	239.8	235.5	243.7	252.7	267.2
37.5°	1834.7	1805.4	1594.9	967.4	472.1	300.0	229.3	227.3	233.2	245.7	262.5
40°	1897.7	1888.7	1642.3	971.7	454.9	289.1	217.1	219.5	231.6	241.4	257.8
42.5°	1958.3	1899.6	1712.3	970.1	444.0	274.2	218.3	215.6	225.0	236.3	251.9
45°	1971.6	1913.3	1728.7	959.2	430.7	259.7	209.3	210.5	221.8	235.9	246.1
47.5°	1963.0	1920.0	1759.2	956.0	418.2	249.5	196.0	210.1	216.7	228.1	242.6
50°	1957.1	1954.8	1785.0	970.9	401.4	233.6	179.9	205.0	211.6	223.0	238.7
52.5°	2008.8	2003.7	1849.5	1010.1	388.1	216.3	163.5	192.1	208.1	219.1	234.4
55°	2040.1	2017.8	1960.2	1058.1	365.7	193.6	152.1	176.0	199.5	209.3	225.0
57.5°	1835.1	1819.8	1773.3	987.8	328.2	163.9	138.1	159.6	187.8	203.0	219.1
60°	1526.9	1503.0	1383.6	839.5	242.2	127.6	129.5	146.7	184.6	190.5	209.3
62.5°	1439.6	1380.5	1218.2	675.6	185.8	109.5	116.2	135.0	168.2	178.0	196.8
65°	1142.3	1098.5	871.6	487.8	124.4	95.1	106.0	121.7	145.2	164.3	181.5
67.5°	715.1	673.2	465.1	230.8	86.8	81.4	94.7	111.1	130.3	147.5	166.6
70°	373.6	327.8	214.8	83.3	59.8	66.5	79.0	94.7	113.5	127.6	142.4
72.5°	139.3	113.1	70.0	36.0	41.5	50.8	64.1	75.5	88.8	106.0	114.2
75°	21.5	18.4	18.0	21.9	28.2	36.8	45.8	57.1	68.8	79.8	85.3
77.5°	10.2	9.8	11.0	14.5	18.8	26.2	33.3	44.2	53.6	60.6	63.7
80°	6.7	6.3	7.0	9.8	14.1	19.6	26.6	34.1	42.7	48.5	47.8
82.5°	3.9	4.3	4.3	6.7	9.8	14.1	19.2	25.8	31.7	36.8	33.7
85°	2.3	2.0	2.0	3.9	6.7	11.4	16.1	11.0	11.4	11.4	12.9
87.5°	0.8	0.8	0.8	0.4	0.8	0.8	1.2	2.0	2.3	2.7	3.5
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°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1033.2	1045.3	1041.0	1025.7	1037.5	1039.4	1031.6	1058.5	1063.6	1055.4	1057.8
5°	837.6	840.7	847.8	862.6	873.1	885.7	885.7	886.4	875.9	902.5	894.7
7.5°	652.5	654.4	662.7	694.4	703.4	727.3	737.4	730.4	709.2	700.2	707.7
10°	563.3	551.9	549.2	553.1	573.5	583.6	592.3	589.9	586.4	579.3	571.5
12.5°	503.9	495.6	489.0	479.6	480.8	490.5	497.2	491.7	493.3	494.9	497.2
15°	439.3	433.5	429.9	415.9	414.3	420.9	423.3	426.4	432.3	432.7	429.9
17.5°	370.8	365.7	373.6	381.4	375.9	376.3	380.6	383.4	381.8	374.7	371.2
20°	323.9	329.4	337.2	344.7	350.5	354.0	355.6	351.3	346.2	331.8	331.4
22.5°	310.2	317.3	323.9	335.3	340.8	349.7	341.5	331.8	324.7	317.7	309.4
25°	300.0	305.9	319.2	323.5	334.1	341.5	335.7	325.9	313.7	303.6	297.3
27.5°	292.6	299.3	307.9	319.6	327.8	332.1	326.3	322.4	309.8	297.7	288.7
30°	287.9	295.0	310.6	320.4	327.5	331.0	320.8	316.1	307.1	296.9	289.1
32.5°	284.8	291.0	304.4	316.9	321.6	321.6	323.1	317.7	305.1	287.9	281.3
35°	274.6	283.2	294.2	308.7	317.3	322.4	314.5	308.3	300.0	282.4	270.3
37.5°	268.7	274.6	288.7	302.4	309.8	315.3	312.2	301.2	290.3	275.8	266.0
40°	262.5	271.9	284.4	297.3	305.5	311.0	308.7	295.7	282.4	268.7	262.1
42.5°	258.2	264.4	277.3	291.8	301.6	312.2	305.1	289.1	279.7	260.9	253.5
45°	254.6	264.8	278.5	284.4	294.6	305.5	293.0	283.2	272.2	258.5	252.3
47.5°	250.3	259.7	268.7	284.4	289.1	294.2	291.8	276.2	266.8	251.9	247.7
50°	248.8	252.3	268.7	277.3	284.0	289.1	282.8	271.1	262.1	246.9	237.5
52.5°	242.6	249.2	259.7	271.1	279.3	285.6	275.4	267.9	255.8	239.8	234.0
55°	234.7	238.7	257.4	269.1	273.4	277.7	273.8	261.7	249.2	232.8	226.9
57.5°	224.6	233.6	248.8	265.2	270.7	273.0	266.8	257.0	241.4	226.9	217.5
60°	214.0	223.4	240.2	253.5	258.9	267.6	258.2	252.3	234.4	218.3	208.1
62.5°	203.4	214.0	226.5	243.4	248.1	251.5	249.2	241.0	226.5	208.5	196.0
65°	190.9	198.7	214.4	223.0	226.1	234.4	226.1	223.0	210.1	192.9	182.3
67.5°	172.1	178.8	192.5	200.7	203.0	206.6	206.2	202.6	188.2	176.4	167.0
70°	150.6	156.4	165.1	174.8	176.0	180.3	176.4	175.6	166.2	150.2	145.2
72.5°	120.9	126.4	137.7	142.0	142.4	144.0	142.0	139.3	136.9	120.1	115.0
75°	92.7	95.8	101.3	105.2	105.2	107.2	106.0	103.3	97.0	86.4	81.4
77.5°	64.5	67.7	74.7	77.0	76.7	77.4	73.9	71.2	61.8	56.3	52.0
80°	47.0	48.9	52.4	53.9	54.3	55.5	51.2	48.9	43.5	37.2	35.2
82.5°	34.1	35.2	35.6	37.6	37.6	35.6	34.5	32.1	28.2	24.3	22.7
85°	14.1	14.5	14.9	17.2	17.6	21.1	19.6	18.4	16.1	13.7	12.5
87.5°	3.5	3.9	5.1	4.3	5.1	5.1	5.5	6.3	6.3	5.1	5.1
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°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1066.8	1069.9	1109.8	1114.9	1134.5	1154.4	1194.7	1223.7	1247.2	1262.4	1266.7
5°	902.9	922.8	941.2	970.9	997.9	1036.3	1080.5	1135.3	1204.1	1239.3	1253.3
7.5°	706.9	730.4	756.9	785.9	825.4	894.3	953.3	1016.7	1104.7	1141.1	1196.3
10°	577.0	603.2	638.5	660.7	708.5	774.2	843.1	916.2	1000.3	1052.7	1116.5
12.5°	510.1	531.7	564.1	611.1	646.7	689.3	740.6	832.9	953.3	1003.0	1046.9
15°	436.2	460.0	497.6	549.6	592.3	643.2	700.6	801.2	929.5	1006.2	1043.3
17.5°	375.1	392.4	431.9	476.8	525.8	581.3	663.8	799.6	954.5	1052.7	1113.3
20°	332.9	335.3	356.7	395.1	461.6	534.0	641.2	791.8	1034.7	1132.9	1209.6
22.5°	306.3	304.0	304.4	336.8	383.4	487.4	605.6	818.4	1125.9	1260.4	1312.1
25°	293.0	286.7	282.8	289.9	332.1	432.3	578.6	853.5	1224.1	1365.6	1429.1
27.5°	286.0	275.0	267.2	268.3	299.3	404.5	561.7	868.8	1321.5	1512.4	1534.7
30°	283.2	269.5	258.2	254.2	274.6	365.7	525.8	895.0	1408.7	1592.9	1612.1
32.5°	273.4	256.6	245.7	242.2	250.3	331.8	499.9	913.8	1485.7	1680.6	1673.9
35°	262.1	248.1	234.4	227.7	233.6	309.8	479.2	904.8	1576.5	1748.6	1745.2
37.5°	260.9	242.6	231.2	220.3	219.9	282.8	451.0	913.4	1634.4	1870.7	1822.6
40°	250.7	239.0	224.2	215.2	210.1	269.1	423.7	893.1	1719.3	1920.0	1872.6
42.5°	251.1	233.6	220.6	210.1	205.0	249.2	404.9	887.6	1749.0	2000.2	1896.1
45°	244.9	227.7	216.7	204.2	201.5	234.0	386.9	862.2	1801.4	2004.1	1866.8
47.5°	238.7	223.4	211.6	196.8	190.5	228.5	372.8	841.1	1774.0	1967.3	1826.1
50°	234.4	216.7	205.8	195.2	177.6	219.1	354.4	836.0	1735.8	1917.6	1750.6
52.5°	226.9	211.3	199.9	191.7	163.5	210.5	347.4	865.7	1782.7	1880.5	1728.7
55°	219.9	203.8	189.3	173.3	151.7	187.8	327.8	893.5	1851.1	1966.1	1828.1
57.5°	212.4	197.2	181.5	162.3	140.5	164.3	307.5	898.6	1722.8	1817.1	1735.4
60°	202.6	183.1	171.3	146.3	128.3	136.2	243.7	792.2	1336.3	1517.5	1520.2
62.5°	191.7	170.5	160.4	131.1	115.8	117.4	198.7	665.8	1084.0	1256.1	1330.9
65°	177.2	156.8	144.8	121.3	106.8	101.7	145.6	487.8	823.5	1019.1	1104.0
67.5°	158.4	139.3	124.0	105.6	95.4	87.2	99.4	274.6	486.2	684.2	710.0
70°	138.5	122.1	106.0	90.7	79.4	73.5	72.7	121.7	232.4	368.1	419.0
72.5°	109.2	97.4	84.5	73.1	65.7	57.1	52.0	50.4	78.6	149.8	206.9
75°	78.2	68.4	61.0	53.6	48.2	43.5	39.5	36.0	32.9	37.6	51.6
77.5°	49.3	45.8	39.9	38.0	34.8	33.7	32.1	30.1	27.8	26.2	26.2
80°	33.3	30.9	29.0	28.6	27.4	27.0	27.4	25.4	23.1	21.1	21.9
82.5°	22.3	21.9	21.5	21.1	21.5	21.9	22.7	22.3	20.4	19.2	19.6
85°	13.3	14.1	14.9	15.7	17.2	15.3	12.5	10.6	9.4	8.6	8.2
87.5°	5.1	7.0	6.3	5.9	6.3	5.9	5.5	5.1	4.3	3.9	3.9
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°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1295.2	1303.1	1309.7	1308.2	1294.5	1276.1	1268.6	1230.7	1222.9	1217.8
5°	1312.9	1358.2	1368.0	1362.1	1326.6	1281.5	1237.8	1182.2	1149.7	1148.5
7.5°	1280.4	1336.3	1353.9	1367.2	1319.9	1241.7	1166.5	1083.2	1062.8	1064.4
10°	1197.8	1287.0	1330.5	1344.2	1289.8	1222.1	1118.0	1033.6	990.1	989.3
12.5°	1152.0	1222.1	1234.2	1253.3	1237.4	1168.9	1089.9	995.2	952.9	952.1
15°	1111.4	1157.5	1161.0	1188.0	1196.7	1150.5	1097.3	996.4	962.3	958.8
17.5°	1147.0	1114.9	1101.6	1105.1	1130.6	1147.4	1140.4	1062.8	1028.1	1008.5
20°	1170.8	1099.3	1058.9	1062.8	1093.0	1154.4	1204.5	1159.1	1104.0	1106.3
22.5°	1234.6	1101.6	1038.6	1034.3	1082.0	1191.2	1276.8	1280.8	1227.6	1214.7
25°	1330.1	1128.6	1032.4	1031.2	1076.9	1230.7	1361.3	1424.7	1370.3	1346.5
27.5°	1406.7	1170.8	1051.9	1055.8	1093.0	1262.7	1433.4	1517.5	1476.0	1446.7
30°	1474.0	1214.7	1079.3	1061.3	1136.1	1279.6	1464.2	1623.1	1589.8	1565.5
32.5°	1501.8	1276.8	1122.7	1093.0	1171.6	1299.9	1528.4	1725.6	1697.0	1637.2
35°	1548.7	1311.7	1146.2	1143.9	1233.9	1348.8	1558.5	1793.2	1781.5	1728.3
37.5°	1586.3	1346.9	1229.5	1203.7	1319.1	1431.0	1607.0	1886.7	1859.7	1834.7
40°	1615.3	1409.9	1307.4	1341.4	1424.0	1505.7	1651.6	1892.6	1970.4	1897.7
42.5°	1588.6	1466.2	1435.3	1516.7	1594.9	1591.0	1656.7	1938.0	1996.3	1958.3
45°	1582.0	1561.6	1637.6	1711.5	1729.5	1661.8	1620.3	1887.9	1988.4	1971.6
47.5°	1565.9	1655.5	1787.7	1908.2	1880.8	1709.1	1576.9	1878.9	1993.1	1963.0
50°	1560.4	1675.9	1898.9	2016.2	1999.8	1750.2	1556.5	1821.0	1959.8	1957.1
52.5°	1560.0	1717.7	1945.1	2074.9	2085.1	1815.2	1584.3	1850.3	1985.7	2008.8
55°	1577.7	1704.4	1939.2	2042.5	2038.5	1786.2	1587.5	1869.9	2017.4	2040.1
57.5°	1488.1	1526.9	1600.4	1682.1	1661.0	1479.5	1417.7	1728.7	1851.5	1835.1
60°	1285.1	1163.8	1080.9	1076.9	1035.9	979.1	1160.2	1542.9	1542.9	1526.9
62.5°	1125.5	764.0	656.4	625.9	655.2	720.6	1119.2	1500.6	1457.9	1439.6
65°	984.2	583.3	474.5	465.9	516.8	615.4	1012.0	1278.4	1203.3	1142.3
67.5°	633.4	427.2	352.8	337.6	399.0	451.8	673.6	786.3	739.0	715.1
70°	408.4	278.1	196.4	184.2	208.1	278.5	430.3	458.4	389.6	373.6
72.5°	193.2	120.1	68.8	56.7	63.7	106.4	170.1	183.1	152.1	139.3
75°	61.4	44.2	28.2	24.3	23.1	27.4	39.2	30.1	21.9	21.5
77.5°	27.4	26.2	22.3	18.8	16.4	13.7	11.4	9.4	9.8	10.2
80°	22.7	20.7	18.4	16.4	13.7	10.6	8.2	6.3	6.3	6.7
82.5°	20.0	18.0	16.1	13.7	11.7	8.6	6.3	4.3	3.9	3.9
85°	8.6	10.2	11.0	11.7	9.4	7.0	4.3	2.7	2.3	2.3
87.5°	3.5	3.1	2.7	2.3	2.0	2.0	1.6	1.2	0.8	0.8
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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