

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: P526103

Luminaire Tested: **GALN-SA1A-735-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526103
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-SA1A-735-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA 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: 2383 lumens
Efficiency: N/A
Efficacy: 72.2 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

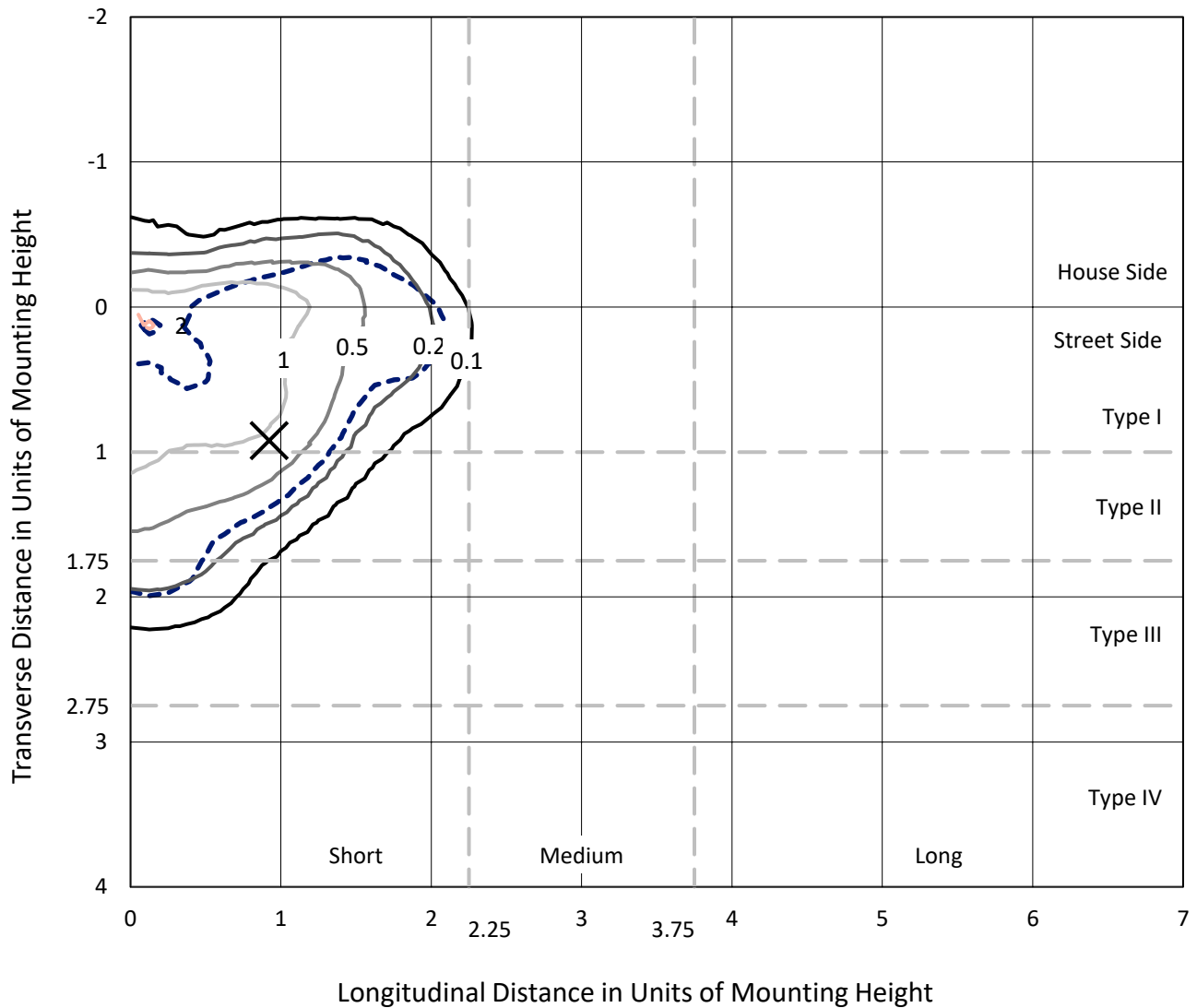
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

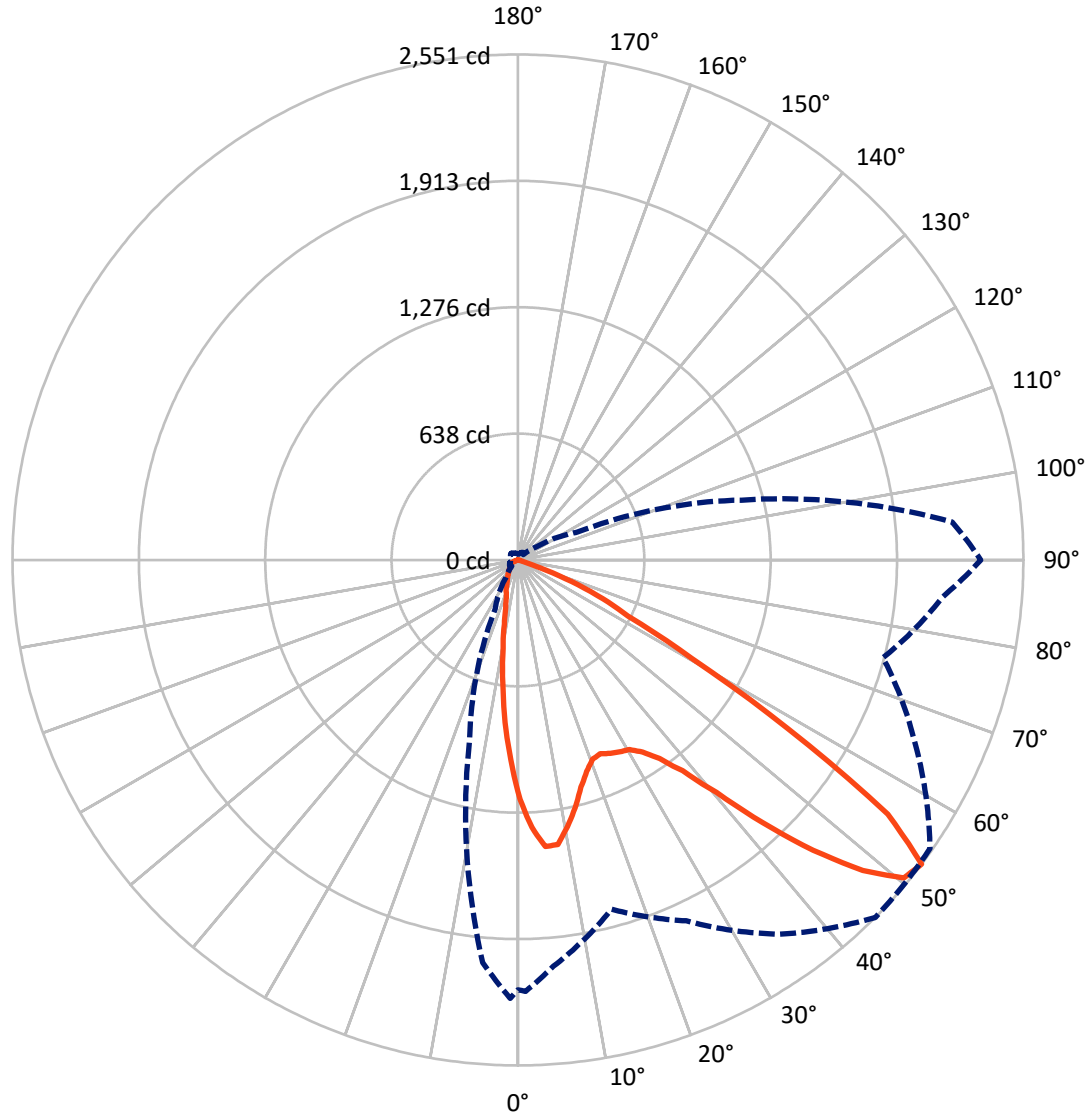
✕ Max cd
 - - - 1/2 Max cd



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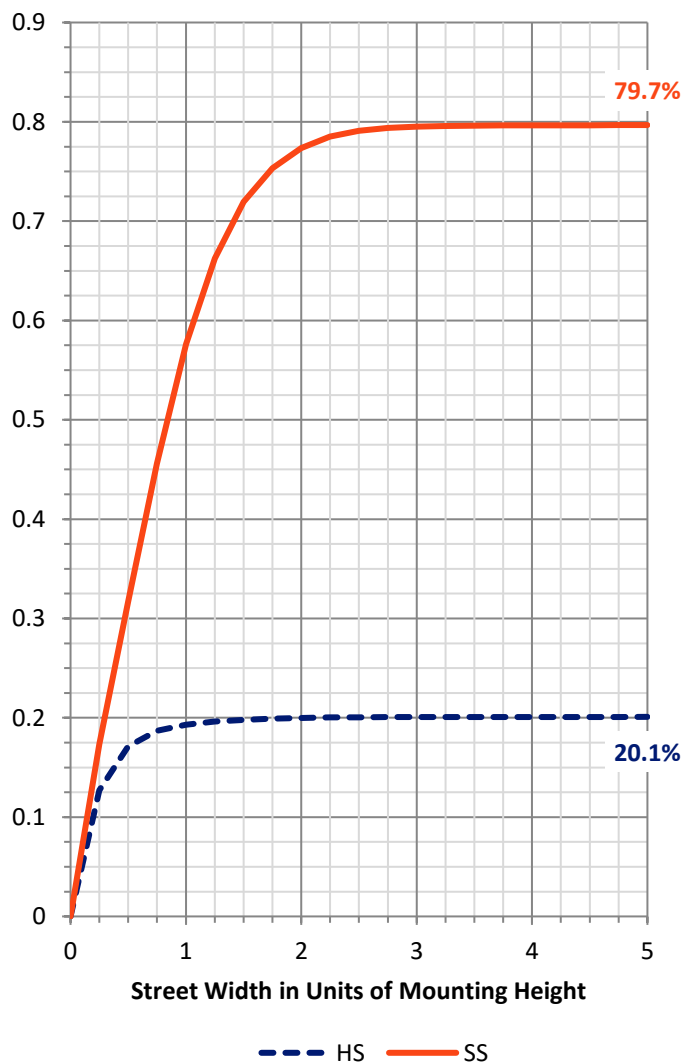
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	483.6	0.0	483.6
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	1899.4	0.0	1899.4
	% Fixture	79.7	0.0	79.7
Total	Lumens	2383.0	0.0	2383.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	3.7
10°-20°	173.9	7.3
20°-30°	264.6	11.1
30°-40°	395.4	16.6
40°-50°	563.1	23.6
50°-60°	605.4	25.4
60°-70°	268.3	11.3
70°-80°	21.7	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°	2383.0	100.0
0°-180°	2383.0	100.0

Coefficient of Utilization

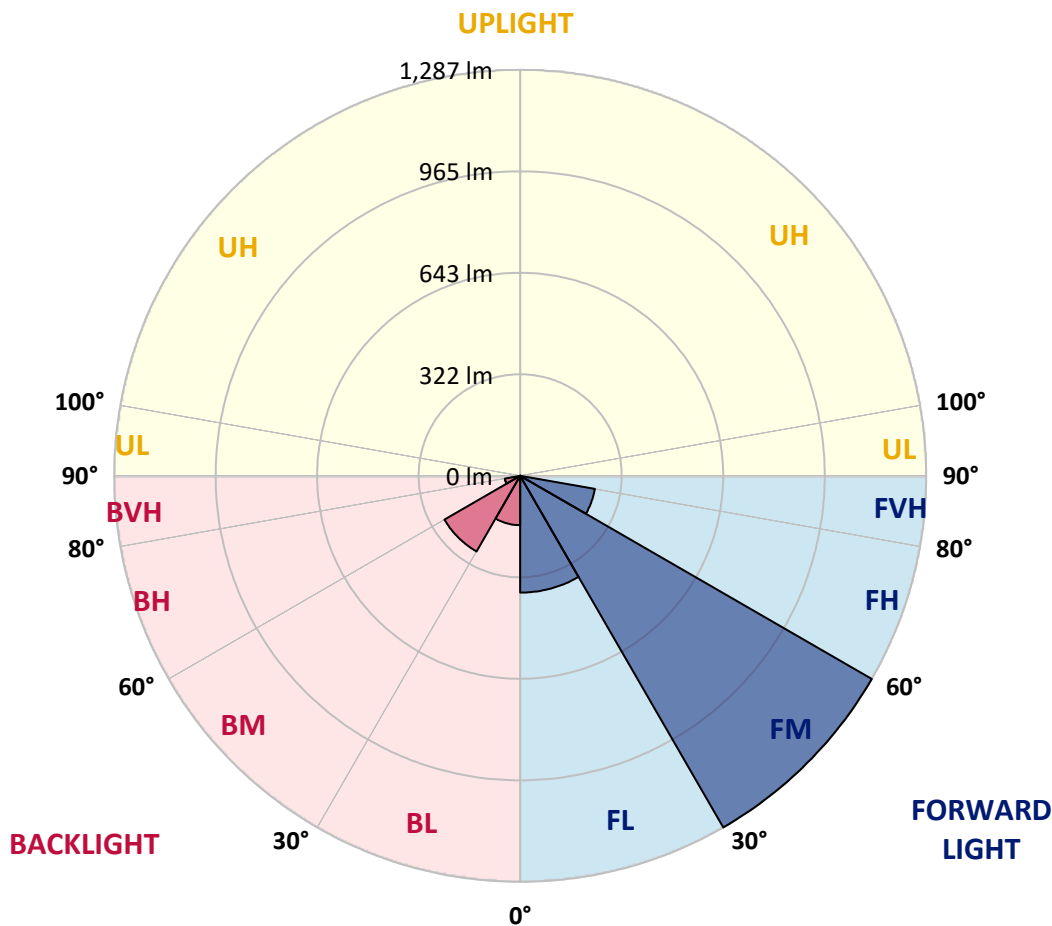


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	370.1	15.5			
FM (30°-60°)	1286.9	54.0			
FH (60°-80°)	240.5	10.1			G0/660
FVH (80°-90°)	1.9	0.1			G0/10
BL (0°-30°)	156.4	6.6	B1/500		
BM (30°-60°)	277.1	11.6	B1/1000		
BH (60°-80°)	49.5	2.1	B0/110		G0/110
BVH (80°-90°)	0.7	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°	1208.3	1208.3	1208.3	1208.3	1208.3	1208.3	1208.3	1208.3	1208.3	1208.3	1208.3
2.5°	1278.6	1282.3	1303.0	1328.7	1342.3	1373.3	1351.7	1357.3	1345.6	1304.4	1272.0
5°	1239.7	1239.2	1265.5	1329.2	1389.7	1451.1	1452.9	1420.1	1362.5	1299.2	1208.8
7.5°	1122.5	1140.8	1168.0	1269.7	1381.7	1427.6	1449.7	1411.2	1322.7	1232.2	1134.2
10°	1033.9	1043.3	1089.2	1212.0	1294.1	1355.5	1369.1	1347.0	1279.1	1166.1	1056.4
12.5°	982.9	987.5	1041.4	1144.5	1231.3	1276.7	1283.3	1293.6	1244.8	1138.9	1007.2
15°	983.3	987.1	1059.7	1146.0	1180.2	1168.0	1189.5	1189.1	1210.2	1133.8	1048.5
17.5°	1054.1	1058.3	1123.9	1166.6	1151.6	1123.0	1121.6	1143.1	1187.7	1198.0	1110.8
20°	1176.0	1185.8	1234.1	1231.7	1147.4	1089.7	1073.8	1090.2	1193.8	1252.3	1236.4
22.5°	1340.0	1353.6	1387.3	1322.7	1166.6	1067.2	1062.1	1093.9	1234.1	1373.7	1378.9
25°	1530.3	1553.3	1569.7	1486.7	1235.0	1106.1	1081.7	1136.6	1288.4	1505.4	1560.3
27.5°	1656.4	1680.3	1676.5	1557.9	1280.9	1116.4	1095.8	1146.9	1335.8	1536.8	1655.0
30°	1754.8	1769.3	1795.6	1596.4	1326.9	1145.5	1110.3	1190.5	1351.2	1591.2	1769.3
32.5°	1869.6	1879.5	1881.3	1664.3	1397.6	1182.0	1155.3	1244.8	1419.7	1643.2	1870.6
35°	1985.4	1999.9	1969.4	1748.2	1441.2	1250.0	1230.3	1339.1	1474.5	1697.1	1982.1
37.5°	2111.0	2118.5	2048.2	1782.9	1503.6	1360.6	1349.8	1440.8	1569.7	1794.6	2105.8
40°	2216.5	2223.5	2132.1	1825.6	1569.2	1515.3	1542.9	1634.8	1699.0	1857.9	2167.7
42.5°	2275.0	2291.4	2160.2	1802.1	1700.9	1690.6	1813.4	1845.7	1849.0	1875.7	2223.0
45°	2291.0	2283.5	2113.8	1821.3	1816.2	1978.8	2090.4	2133.0	1998.0	1908.5	2237.1
47.5°	2217.4	2227.2	2045.4	1804.5	1967.6	2197.2	2341.6	2420.8	2109.1	1879.9	2202.4
50°	2157.9	2145.2	2023.3	1792.3	2008.4	2300.3	2523.0	2540.8	2211.3	1915.1	2164.4
52.5°	2169.6	2177.5	2058.5	1824.6	2009.3	2306.4	2551.1	2538.9	2214.6	1907.1	2150.8
55°	2194.4	2159.3	2043.5	1753.4	1874.8	2136.3	2264.3	2245.5	2044.0	1822.3	2117.6
57.5°	1893.5	1947.9	1879.0	1565.4	1538.7	1609.5	1607.1	1664.8	1524.7	1568.2	1927.7
60°	1536.8	1546.2	1572.0	1339.1	1064.9	1040.5	1006.8	970.2	1026.0	1340.9	1753.4
62.5°	1351.7	1340.5	1432.3	1218.1	751.8	629.5	623.8	646.3	791.6	1279.1	1644.6
65°	982.4	996.4	1063.0	945.4	564.3	480.4	472.0	538.5	640.7	1025.0	1255.2
67.5°	599.9	627.1	633.2	583.1	382.9	304.2	292.0	352.5	462.6	663.2	735.8
70°	277.0	309.8	340.7	318.2	221.7	125.1	118.1	148.1	233.4	381.5	390.4
72.5°	83.9	84.4	118.1	123.3	71.7	28.1	24.8	32.8	79.2	126.1	132.6
75°	6.1	6.6	15.9	18.3	13.6	7.0	7.5	8.9	16.9	28.1	21.1
77.5°	0.5	0.5	0.5	2.3	4.2	4.7	6.1	7.0	8.9	10.3	9.4
80°	0.5	0.0	0.5	1.9	3.3	4.7	5.6	6.6	7.0	8.0	7.0
82.5°	0.0	0.0	0.0	1.4	3.3	4.7	5.2	7.0	8.0	9.4	8.0
85°	0.0	0.0	0.0	1.4	3.3	5.2	4.7	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°	1208.3	1208.3	1208.3	1208.3	1208.3	1208.3	1208.3	1208.3	1208.3	1208.3	1208.3
2.5°	1277.7	1259.4	1217.7	1196.6	1146.9	1139.9	1091.1	1083.2	1066.7	1057.8	1036.3
5°	1168.9	1146.9	1078.9	1021.8	955.2	908.8	873.2	840.8	822.1	804.7	812.7
7.5°	1080.3	1016.1	940.7	845.1	768.2	718.5	664.1	619.6	593.4	575.6	579.8
10°	987.5	945.8	840.8	733.5	640.7	605.6	562.9	528.7	491.7	459.8	444.8
12.5°	958.5	896.6	764.9	655.7	585.4	551.2	502.4	463.1	415.7	376.8	363.2
15°	963.6	904.1	744.3	627.6	544.6	485.6	427.4	378.7	326.7	299.5	285.4
17.5°	1047.5	944.4	757.9	598.1	487.9	405.9	334.2	272.3	233.4	205.3	199.2
20°	1150.6	1031.6	786.9	576.5	441.5	322.9	244.2	190.8	158.4	153.7	152.3
22.5°	1301.6	1174.1	849.3	562.0	384.8	251.7	167.3	138.7	129.8	128.9	129.4
25°	1512.5	1352.6	917.2	549.8	342.1	194.0	136.9	117.6	114.8	113.4	115.8
27.5°	1603.9	1460.4	953.3	523.5	303.2	174.8	135.0	116.7	108.7	106.4	107.8
30°	1716.8	1532.2	1010.0	478.5	246.1	143.9	126.1	127.0	123.3	111.5	107.8
32.5°	1866.8	1621.7	1038.6	446.7	219.8	119.0	92.3	84.8	94.7	96.6	99.8
35°	1962.9	1712.6	1053.2	427.9	206.2	101.7	78.3	71.2	68.9	69.4	71.2
37.5°	2141.5	1835.4	1071.4	408.2	195.9	88.6	70.8	64.2	60.9	60.9	62.8
40°	2248.3	1932.9	1096.3	397.5	185.6	80.6	64.2	58.6	55.8	55.8	56.7
42.5°	2275.0	1981.2	1087.8	393.7	173.9	78.7	58.6	54.4	51.1	50.6	50.2
45°	2322.8	2054.8	1089.2	389.5	161.7	71.7	55.3	50.6	45.9	45.5	45.0
47.5°	2375.3	2107.7	1092.1	373.1	150.0	60.0	57.6	46.9	41.2	40.3	40.3
50°	2330.3	2149.9	1116.4	356.7	135.0	48.7	56.7	44.1	36.6	35.2	35.6
52.5°	2336.0	2199.6	1168.0	333.7	116.2	38.9	45.9	41.7	33.3	30.9	31.4
55°	2246.0	2147.1	1175.0	309.3	90.9	30.0	35.2	36.6	28.1	27.2	27.2
57.5°	1933.4	1818.1	1036.7	250.8	60.0	24.8	25.3	31.9	24.4	23.4	23.9
60°	1654.5	1459.5	834.3	165.4	37.5	19.7	18.3	32.3	21.6	21.1	22.5
62.5°	1508.3	1199.4	632.7	102.6	25.8	15.0	12.7	26.2	18.7	18.7	20.6
65°	1089.7	805.7	367.9	53.9	18.3	11.7	9.4	15.0	15.5	15.9	16.9
67.5°	674.9	406.8	155.1	26.2	12.2	8.0	6.1	9.4	10.3	10.3	11.2
70°	333.2	162.2	51.6	15.0	9.4	6.6	4.2	5.2	5.2	4.7	5.2
72.5°	103.1	48.7	13.1	9.4	6.6	4.2	2.3	1.9	0.9	0.0	0.5
75°	11.7	9.4	8.4	6.6	4.2	1.9	0.5	0.0	0.0	0.0	0.0
77.5°	7.0	8.0	8.0	6.6	4.2	1.4	0.0	0.0	0.0	0.0	0.0
80°	5.6	6.1	6.6	6.1	3.7	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	7.0	8.0	8.9	8.0	5.2	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°	1208.3	1208.3	1208.3	1208.3	1208.3	1208.3	1208.3	1208.3	1208.3	1208.3	1208.3
2.5°	1027.4	1017.1	1031.6	1010.0	1009.6	1010.0	1003.9	998.3	1007.2	1031.1	1033.5
5°	784.1	806.2	813.2	836.1	823.5	804.7	808.5	795.8	826.8	840.4	829.6
7.5°	570.9	569.5	616.8	619.6	625.7	626.2	625.2	600.4	575.1	580.7	597.6
10°	442.9	419.0	442.0	439.6	454.6	450.4	456.5	429.8	438.7	438.7	449.5
12.5°	360.9	335.6	331.4	325.3	331.4	333.7	336.1	330.9	345.9	352.9	360.4
15°	275.6	261.5	257.8	246.1	247.9	254.5	260.1	262.5	257.8	268.6	269.5
17.5°	200.1	199.7	202.0	201.5	199.7	198.3	197.8	191.7	189.8	190.8	194.5
20°	151.9	155.6	163.6	171.5	175.8	170.6	163.6	153.3	149.0	150.0	150.5
22.5°	129.8	135.5	146.2	155.1	159.4	150.0	137.3	128.4	126.5	126.1	125.6
25°	117.6	124.2	132.2	135.0	134.5	128.9	119.5	115.8	114.8	113.9	109.7
27.5°	111.1	113.4	114.8	118.1	119.5	115.8	113.4	107.8	106.9	106.9	104.0
30°	107.3	105.9	107.8	105.5	107.3	104.5	105.0	105.0	102.6	103.6	103.6
32.5°	99.8	100.3	100.3	95.6	97.0	93.7	97.0	99.8	100.3	100.8	104.5
35°	73.1	81.6	85.8	85.8	87.2	84.8	84.4	81.1	76.9	72.6	70.8
37.5°	64.2	67.5	73.1	76.4	78.7	76.9	72.6	67.5	65.1	63.3	61.4
40°	57.2	60.0	63.7	67.5	72.2	69.8	63.3	60.9	58.1	58.1	56.2
42.5°	51.6	53.0	55.3	60.9	66.1	61.4	56.7	54.8	53.4	53.0	52.5
45°	46.4	46.9	49.2	53.9	60.0	55.3	50.6	48.3	48.7	49.2	48.7
47.5°	41.7	42.7	44.1	49.7	53.4	51.1	45.9	44.5	44.5	44.5	45.0
50°	36.1	38.4	41.2	45.9	48.7	47.3	43.1	41.2	40.3	40.3	40.8
52.5°	32.3	34.2	38.0	43.6	47.3	45.0	40.8	38.0	36.1	35.6	36.6
55°	28.1	31.4	37.5	41.7	46.9	44.5	39.8	36.6	33.3	32.8	32.8
57.5°	25.3	30.5	36.1	41.2	45.5	43.6	39.8	35.6	31.4	30.9	30.9
60°	23.9	29.5	35.2	39.8	45.5	42.7	39.4	34.7	30.0	30.0	29.5
62.5°	22.5	27.7	33.3	38.0	43.6	41.2	38.0	33.3	28.6	28.6	27.7
65°	18.7	23.9	27.7	31.9	38.0	35.6	32.3	29.1	25.3	24.4	24.8
67.5°	13.1	16.4	20.2	24.4	28.1	27.2	25.8	23.4	20.2	19.7	19.2
70°	6.6	8.9	12.2	16.4	19.7	18.7	17.8	15.9	14.1	13.6	13.6
72.5°	0.9	2.8	5.2	7.5	10.3	10.8	10.3	9.8	9.4	8.9	9.4
75°	0.0	0.0	0.0	1.9	4.2	5.2	6.1	7.0	7.0	6.1	7.5
77.5°	0.0	0.0	0.0	0.0	0.5	2.3	4.7	6.1	7.5	6.6	8.9
80°	0.0	0.0	0.0	0.0	0.5	2.8	4.7	6.6	7.5	6.6	9.4
82.5°	0.0	0.0	0.0	0.0	0.5	3.3	4.7	6.1	7.0	6.6	8.4
85°	0.0	0.0	0.0	0.0	1.4	2.8	1.9	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°	1208.3	1208.3	1208.3	1208.3	1208.3	1208.3	1208.3	1208.3	1208.3	1208.3
2.5°	1046.6	1079.9	1115.5	1129.1	1171.3	1203.1	1224.7	1271.1	1278.1	1278.6
5°	840.8	857.7	918.6	947.2	1010.0	1058.8	1110.8	1185.8	1235.9	1239.7
7.5°	597.6	644.5	670.2	744.8	822.1	898.5	975.8	1063.0	1121.1	1122.5
10°	480.9	511.3	557.3	613.1	678.2	756.0	859.1	960.4	1019.4	1033.9
12.5°	387.1	440.6	493.1	550.7	600.4	659.0	770.1	905.0	953.8	982.9
15°	298.1	346.8	408.7	476.2	532.4	610.7	737.3	891.5	973.5	983.3
17.5°	219.8	263.4	320.6	384.3	468.7	579.8	742.9	960.4	1037.7	1054.1
20°	157.9	183.3	228.3	302.3	409.6	543.7	748.5	1030.2	1147.8	1176.0
22.5°	125.1	135.5	165.0	230.6	343.6	505.7	788.3	1163.8	1299.2	1340.0
25°	108.7	114.4	128.4	181.9	301.8	502.0	852.1	1324.1	1500.8	1530.3
27.5°	105.0	105.9	118.1	166.9	279.3	477.1	876.5	1438.0	1626.4	1656.4
30°	110.6	125.6	126.5	141.1	237.6	427.9	889.1	1548.1	1732.8	1754.8
32.5°	95.6	90.9	94.2	109.2	209.0	399.3	913.0	1644.2	1854.2	1869.6
35°	66.6	69.8	77.3	94.7	182.8	369.3	919.1	1750.1	1969.4	1985.4
37.5°	61.4	63.3	69.4	80.6	160.8	352.5	910.7	1827.4	2089.0	2111.0
40°	57.2	59.5	62.8	73.1	144.4	333.7	899.0	1897.3	2162.1	2216.5
42.5°	53.9	55.8	58.6	69.8	130.3	315.0	882.5	1995.7	2227.7	2275.0
45°	50.2	53.0	56.2	68.0	122.3	302.3	870.4	1989.6	2265.7	2291.0
47.5°	46.4	51.1	54.8	63.3	120.0	296.2	875.5	1966.6	2234.7	2217.4
50°	42.7	48.7	55.3	52.5	114.4	284.0	881.6	1998.0	2161.1	2157.9
52.5°	39.4	46.4	51.6	43.1	101.7	272.3	940.7	2039.3	2213.2	2169.6
55°	34.7	41.7	41.2	34.7	82.5	263.4	987.1	2040.2	2178.0	2194.4
57.5°	31.4	37.0	32.3	29.1	60.9	220.3	911.6	1710.7	1864.5	1893.5
60°	29.1	36.1	24.4	23.0	39.8	158.9	795.8	1325.0	1482.0	1536.8
62.5°	26.7	34.2	19.2	18.7	27.7	113.0	654.3	1108.9	1277.2	1351.7
65°	23.4	24.4	15.5	14.5	19.7	60.9	398.4	763.5	954.7	982.4
67.5°	19.2	18.7	12.7	11.7	13.1	29.5	175.8	382.5	553.5	599.9
70°	15.5	15.5	10.8	9.4	9.4	13.6	45.9	152.3	250.3	277.0
72.5°	11.2	11.7	8.4	7.5	7.0	6.6	7.5	30.5	65.6	83.9
75°	9.8	10.3	8.4	6.6	5.2	4.2	3.3	2.8	3.7	6.1
77.5°	10.8	10.8	8.9	6.1	4.7	3.3	1.9	0.9	0.9	0.5
80°	13.6	14.1	11.7	8.0	5.6	3.7	2.3	0.9	0.5	0.5
82.5°	14.5	15.9	13.1	9.8	7.0	4.2	2.3	0.5	0.0	0.0
85°	3.7	6.1	10.3	8.9	7.0	4.2	2.3	0.5	0.0	0.0
87.5°	0.0	0.5	1.4	1.4	1.9	1.9	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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