

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: P526106

Luminaire Tested: **GALN-SA1A-735-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526106
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-735-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 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: 3211 lumens
Efficiency: N/A
Efficacy: 97.3 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

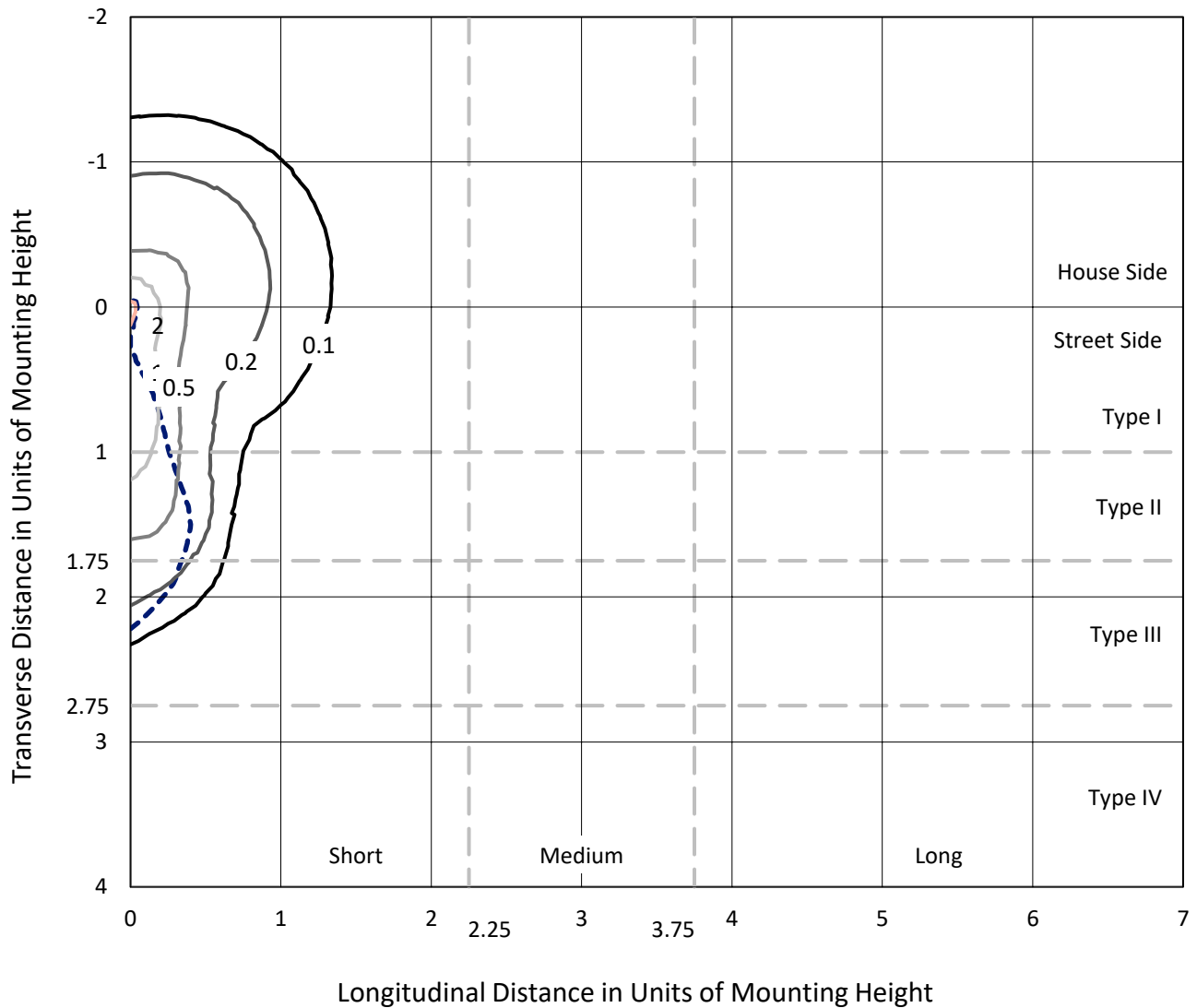
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

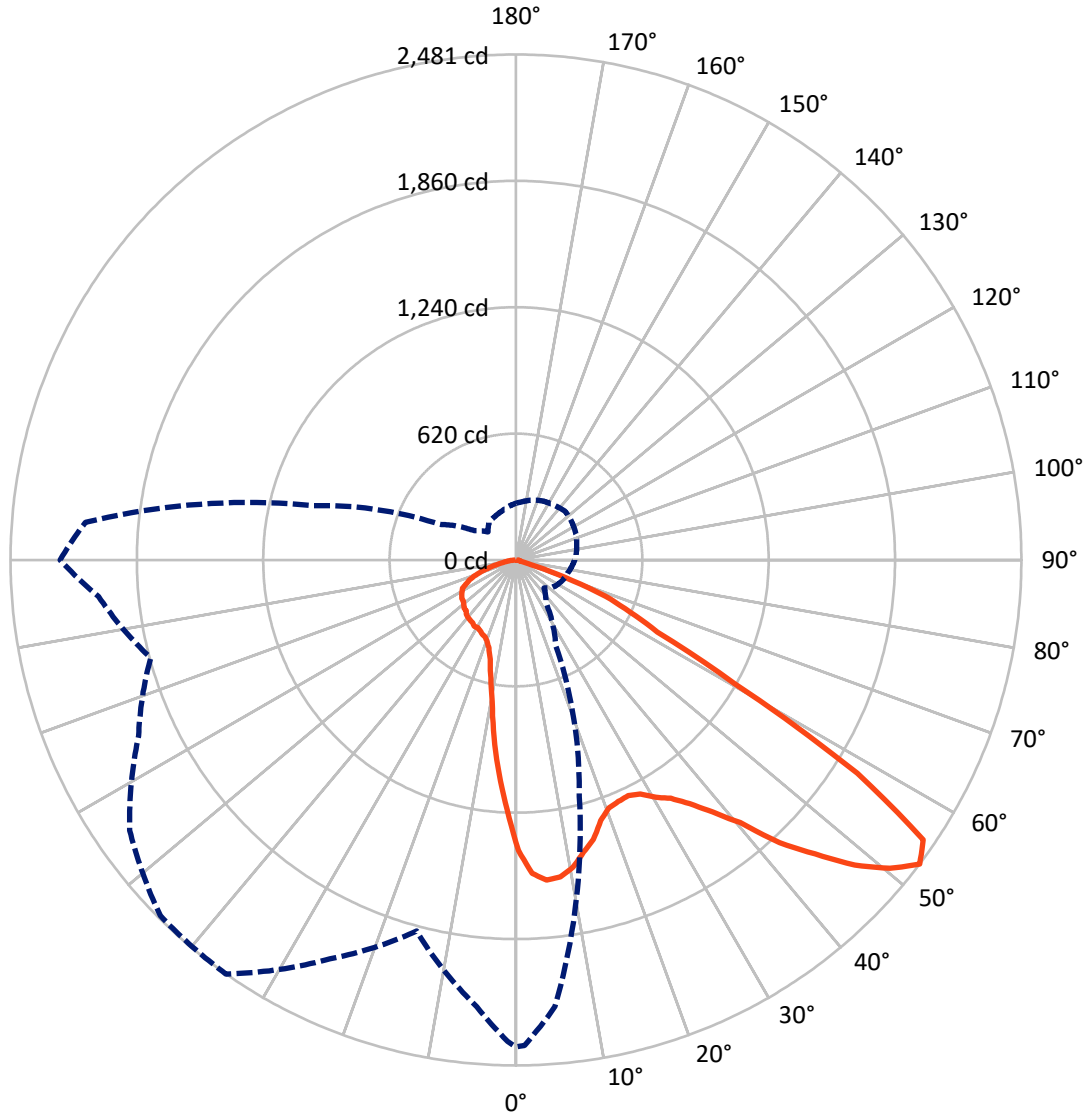
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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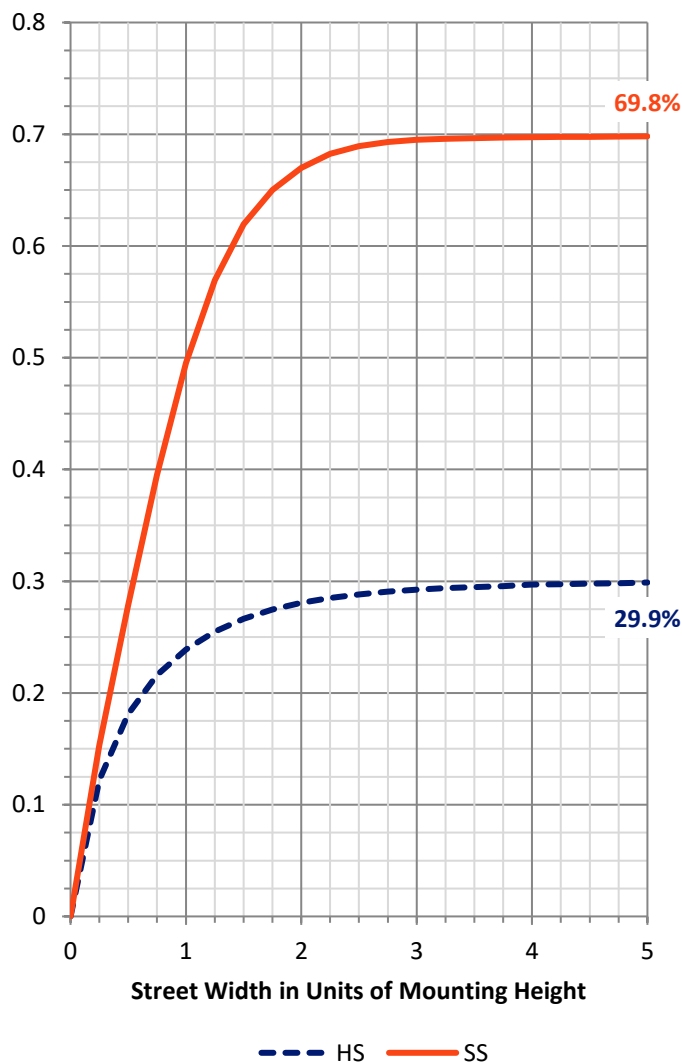
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	968.0	0.0	968.0
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	2243.0	0.0	2243.0
	% Fixture	69.9	0.0	69.9
Total	Lumens	3211.0	0.0	3211.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	3.4
10°-20°	235.7	7.3
20°-30°	356.1	11.1
30°-40°	514.6	16.0
40°-50°	684.8	21.3
50°-60°	766.0	23.9
60°-70°	431.7	13.4
70°-80°	96.2	3.0
80°-90°	17.1	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°	3211.0	100.0
0°-180°	3211.0	100.0

Coefficient of Utilization

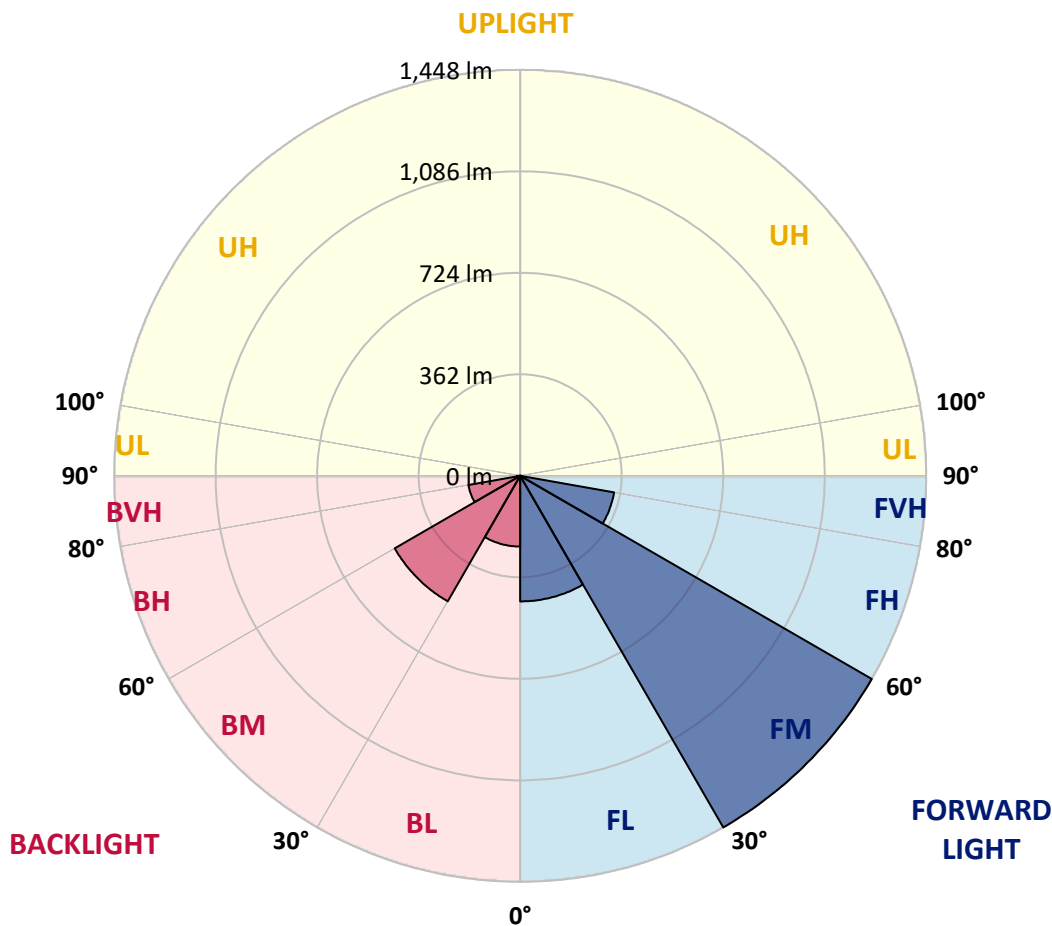


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	448.1	14.0			
FM (30°-60°)	1448.4	45.1			
FH (60°-80°)	340.3	10.6			G0/660
FVH (80°-90°)	6.2	0.2			G0/10
BL (0°-30°)	252.4	7.9	B1/500		
BM (30°-60°)	517.0	16.1	B1/1000		
BH (60°-80°)	187.6	5.8	B1/500		G1/500
BVH (80°-90°)	10.9	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-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1425.1	1425.1	1425.1	1425.1	1425.1	1425.1	1425.1	1425.1	1425.1	1425.1	1425.1
2.5°	1448.8	1472.1	1446.9	1402.3	1370.6	1341.8	1311.5	1305.5	1265.9	1258.9	1230.1
5°	1366.4	1361.3	1330.6	1271.9	1207.3	1148.6	1105.3	1063.4	1035.1	1002.0	999.7
7.5°	1266.4	1236.6	1218.9	1130.0	1049.9	957.8	918.2	854.5	834.5	804.7	789.3
10°	1177.0	1155.1	1113.7	1024.8	913.1	852.2	809.8	775.4	752.1	721.4	682.7
12.5°	1132.8	1123.9	1077.4	939.6	856.8	791.6	761.9	728.4	688.8	639.5	620.4
15°	1140.7	1110.9	1075.5	923.4	808.9	746.0	698.6	656.7	606.0	558.9	531.5
17.5°	1199.8	1177.0	1106.3	933.6	790.7	700.0	613.9	552.0	506.4	464.0	444.9
20°	1316.2	1283.1	1203.5	946.6	751.6	635.7	537.1	460.7	411.9	389.5	383.0
22.5°	1445.1	1425.5	1298.5	975.9	720.4	576.2	455.6	379.3	361.2	355.1	367.2
25°	1601.9	1551.2	1446.0	1023.9	696.2	525.4	386.7	344.4	335.1	341.1	355.1
27.5°	1721.1	1707.6	1549.3	1069.0	663.2	464.5	348.1	320.2	323.0	329.0	342.1
30°	1862.5	1794.1	1649.4	1100.2	633.4	422.6	321.1	313.7	316.5	326.7	333.2
32.5°	1947.7	1922.1	1712.2	1147.2	599.0	386.3	300.2	293.2	297.4	312.8	328.1
35°	2056.1	2005.4	1789.9	1159.3	574.8	371.9	285.3	280.2	289.9	300.6	317.9
37.5°	2182.7	2147.8	1897.4	1150.9	561.7	357.0	272.7	270.4	277.4	292.3	312.3
40°	2257.7	2247.0	1953.8	1156.1	541.3	343.9	258.3	261.1	275.5	287.2	306.7
42.5°	2329.8	2260.0	2037.1	1154.2	528.2	326.2	259.7	256.4	267.6	281.1	299.7
45°	2345.6	2276.3	2056.6	1141.2	512.4	309.0	249.0	250.4	263.9	280.6	292.7
47.5°	2335.4	2284.2	2092.9	1137.4	497.5	296.9	233.2	249.9	257.8	271.3	288.5
50°	2328.4	2325.6	2123.6	1155.1	477.5	277.8	214.1	243.9	251.8	265.3	283.9
52.5°	2389.8	2383.8	2200.4	1201.7	461.7	257.4	194.5	228.5	247.6	260.6	278.8
55°	2427.1	2400.5	2332.1	1258.9	435.2	230.4	181.0	209.4	237.4	249.0	267.6
57.5°	2183.2	2165.1	2109.7	1175.1	390.5	195.0	164.3	189.9	223.4	241.5	260.6
60°	1816.5	1788.1	1646.1	998.8	288.1	151.7	154.0	174.5	219.7	226.7	249.0
62.5°	1712.7	1642.4	1449.3	803.7	221.1	130.3	138.2	160.6	200.1	211.8	234.1
65°	1359.0	1306.8	1036.9	580.4	148.0	113.1	126.1	144.7	172.7	195.5	215.9
67.5°	850.8	801.0	553.4	274.6	103.3	96.8	112.6	132.2	155.0	175.5	198.3
70°	444.5	390.0	255.5	99.1	71.2	79.1	94.0	112.6	135.0	151.7	169.4
72.5°	165.7	134.5	83.3	42.8	49.3	60.5	76.3	89.8	105.6	126.1	135.9
75°	25.6	21.9	21.4	26.1	33.5	43.7	54.5	67.9	81.9	94.9	101.5
77.5°	12.1	11.6	13.0	17.2	22.3	31.2	39.6	52.6	63.8	72.1	75.9
80°	7.9	7.4	8.4	11.6	16.8	23.3	31.6	40.5	50.7	57.7	56.8
82.5°	4.7	5.1	5.1	7.9	11.6	16.8	22.8	30.7	37.7	43.7	40.0
85°	2.8	2.3	2.3	4.7	7.9	13.5	19.1	13.0	13.5	13.5	15.4
87.5°	0.9	0.9	0.9	0.5	0.9	0.9	1.4	2.3	2.8	3.3	4.2
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°	1425.1	1425.1	1425.1	1425.1	1425.1	1425.1	1425.1	1425.1	1425.1	1425.1	1425.1
2.5°	1229.1	1243.6	1238.4	1220.3	1234.2	1236.6	1227.3	1259.4	1265.4	1255.7	1258.4
5°	996.4	1000.1	1008.5	1026.2	1038.8	1053.7	1053.7	1054.6	1042.0	1073.7	1064.4
7.5°	776.3	778.6	788.4	826.1	836.8	865.2	877.3	868.9	843.8	833.1	841.9
10°	670.2	656.7	653.4	658.1	682.3	694.4	704.6	701.8	697.6	689.3	680.0
12.5°	599.4	589.7	581.8	570.6	572.0	583.6	591.5	585.0	586.9	588.7	591.5
15°	522.6	515.7	511.5	494.7	492.9	500.8	503.6	507.3	514.3	514.7	511.5
17.5°	441.2	435.2	444.5	453.8	447.3	447.7	452.8	456.1	454.2	445.9	441.7
20°	385.4	391.9	401.2	410.0	417.0	421.2	423.1	417.9	411.9	394.7	394.2
22.5°	369.1	377.4	385.4	398.8	405.4	416.1	406.3	394.7	386.3	377.9	368.1
25°	357.0	363.9	379.8	384.9	397.5	406.3	399.3	387.7	373.3	361.2	353.7
27.5°	348.1	356.0	366.3	380.2	390.0	395.1	388.1	383.5	368.6	354.2	343.5
30°	342.5	350.9	369.5	381.2	389.5	393.7	381.6	376.0	365.3	353.2	343.9
32.5°	338.8	346.3	362.1	377.0	382.6	382.6	384.4	377.9	363.0	342.5	334.6
35°	326.7	337.0	350.0	367.2	377.4	383.5	374.2	366.7	357.0	336.0	321.6
37.5°	319.7	326.7	343.5	359.8	368.6	375.1	371.4	358.4	345.3	328.1	316.5
40°	312.3	323.5	338.3	353.7	363.5	370.0	367.2	351.8	336.0	319.7	311.8
42.5°	307.2	314.6	330.0	347.2	358.8	371.4	363.0	343.9	332.8	310.4	301.6
45°	303.0	315.1	331.4	338.3	350.4	363.5	348.6	337.0	323.9	307.6	300.2
47.5°	297.9	309.0	319.7	338.3	343.9	350.0	347.2	328.6	317.4	299.7	294.6
50°	296.0	300.2	319.7	330.0	337.9	343.9	336.5	322.5	311.8	293.7	282.5
52.5°	288.5	296.5	309.0	322.5	332.3	339.7	327.6	318.8	304.4	285.3	278.3
55°	279.2	283.9	306.2	320.2	325.3	330.4	325.8	311.4	296.5	276.9	269.9
57.5°	267.1	277.8	296.0	315.5	322.1	324.9	317.4	305.8	287.2	269.9	258.8
60°	254.6	265.7	285.8	301.6	308.1	318.3	307.2	300.2	278.8	259.7	247.6
62.5°	242.0	254.6	269.5	289.5	295.1	299.3	296.5	286.7	269.5	248.1	233.2
65°	227.1	236.4	255.0	265.3	269.0	278.8	269.0	265.3	249.9	229.4	216.9
67.5°	204.8	212.7	229.0	238.8	241.5	245.7	245.3	241.1	223.9	209.9	198.7
70°	179.2	186.2	196.4	208.0	209.4	214.6	209.9	209.0	197.8	178.7	172.7
72.5°	143.8	150.3	163.8	168.9	169.4	171.3	168.9	165.7	162.9	142.9	136.8
75°	110.3	114.0	120.5	125.2	125.2	127.5	126.1	122.9	115.4	102.9	96.8
77.5°	76.8	80.5	88.9	91.7	91.2	92.1	88.0	84.7	73.5	67.0	61.9
80°	55.8	58.2	62.4	64.2	64.7	66.1	61.0	58.2	51.7	44.2	41.9
82.5°	40.5	41.9	42.4	44.7	44.7	42.4	41.0	38.2	33.5	28.9	27.0
85°	16.8	17.2	17.7	20.5	20.9	25.1	23.3	21.9	19.1	16.3	14.9
87.5°	4.2	4.7	6.1	5.1	6.1	6.1	6.5	7.4	7.4	6.1	6.1
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°	1425.1	1425.1	1425.1	1425.1	1425.1	1425.1	1425.1	1425.1	1425.1	1425.1	1425.1
2.5°	1269.2	1272.9	1320.3	1326.4	1349.7	1373.4	1421.3	1455.8	1483.7	1501.9	1507.0
5°	1074.1	1097.9	1119.8	1155.1	1187.2	1232.9	1285.4	1350.6	1432.5	1474.4	1491.1
7.5°	841.0	868.9	900.6	935.0	982.0	1063.9	1134.2	1209.6	1314.3	1357.6	1423.2
10°	686.5	717.7	759.5	786.1	842.8	921.0	1002.9	1090.0	1190.0	1252.4	1328.3
12.5°	606.9	632.5	671.1	727.0	769.3	820.0	881.0	990.8	1134.2	1193.3	1245.4
15°	518.9	547.3	592.0	653.9	704.6	765.1	833.5	953.1	1105.8	1197.0	1241.2
17.5°	446.3	466.8	513.8	567.3	625.5	691.6	789.8	951.3	1135.6	1252.4	1324.5
20°	396.1	398.8	424.4	470.1	549.2	635.3	762.8	942.0	1231.0	1347.8	1439.0
22.5°	364.4	361.6	362.1	400.7	456.1	579.9	720.4	973.6	1339.4	1499.5	1561.0
25°	348.6	341.1	336.5	344.9	395.1	514.3	688.3	1015.5	1456.2	1624.7	1700.1
27.5°	340.2	327.2	317.9	319.3	356.0	481.2	668.3	1033.7	1572.1	1799.2	1825.8
30°	337.0	320.7	307.2	302.5	326.7	435.2	625.5	1064.8	1675.9	1895.1	1917.9
32.5°	325.3	305.3	292.3	288.1	297.9	394.7	594.8	1087.2	1767.6	1999.4	1991.5
35°	311.8	295.1	278.8	270.9	277.8	368.6	570.1	1076.5	1875.6	2080.3	2076.2
37.5°	310.4	288.5	275.1	262.0	261.6	336.5	536.6	1086.7	1944.5	2225.6	2168.3
40°	298.3	284.4	266.7	256.0	249.9	320.2	504.0	1062.5	2045.4	2284.2	2227.9
42.5°	298.8	277.8	262.5	249.9	243.9	296.5	481.7	1056.0	2080.8	2379.6	2255.8
45°	291.3	270.9	257.8	242.9	239.7	278.3	460.3	1025.7	2143.2	2384.3	2220.9
47.5°	283.9	265.7	251.8	234.1	226.7	271.8	443.5	1000.6	2110.6	2340.5	2172.5
50°	278.8	257.8	244.8	232.2	211.3	260.6	421.7	994.6	2065.0	2281.4	2082.7
52.5°	269.9	251.3	237.8	228.0	194.5	250.4	413.3	1029.9	2120.8	2237.2	2056.6
55°	261.6	242.5	225.3	206.2	180.6	223.4	390.0	1063.0	2202.3	2339.1	2174.8
57.5°	252.7	234.6	215.9	193.1	167.1	195.5	365.8	1069.0	2049.6	2161.8	2064.5
60°	241.1	217.8	203.8	174.1	152.7	162.0	289.9	942.4	1589.8	1805.3	1808.6
62.5°	228.0	202.9	190.8	155.9	137.8	139.6	236.4	792.1	1289.6	1494.4	1583.3
65°	210.8	186.6	172.2	144.3	127.1	121.0	173.1	580.4	979.7	1212.4	1313.4
67.5°	188.5	165.7	147.5	125.7	113.6	103.8	118.2	326.7	578.5	814.0	844.7
70°	164.8	145.2	126.1	108.0	94.5	87.5	86.6	144.7	276.4	437.9	498.4
72.5°	129.8	115.9	100.5	87.0	78.2	67.9	61.9	60.0	93.5	178.2	246.2
75°	93.1	81.4	72.6	63.8	57.2	51.7	47.0	42.8	39.1	44.7	61.4
77.5°	58.6	54.5	47.5	45.1	41.4	40.0	38.2	35.8	33.0	31.2	31.2
80°	39.6	36.8	34.4	34.0	32.6	32.1	32.6	30.3	27.5	25.1	26.1
82.5°	26.5	26.1	25.6	25.1	25.6	26.1	27.0	26.5	24.2	22.8	23.3
85°	15.8	16.8	17.7	18.6	20.5	18.2	14.9	12.6	11.2	10.2	9.8
87.5°	6.1	8.4	7.4	7.0	7.4	7.0	6.5	6.1	5.1	4.7	4.7
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°	1425.1	1425.1	1425.1	1425.1	1425.1	1425.1	1425.1	1425.1	1425.1	1425.1
2.5°	1540.9	1550.3	1558.2	1556.3	1540.0	1518.1	1509.3	1464.2	1454.8	1448.8
5°	1561.9	1615.9	1627.5	1620.5	1578.2	1524.7	1472.5	1406.4	1367.8	1366.4
7.5°	1523.3	1589.8	1610.8	1626.6	1570.3	1477.2	1387.8	1288.7	1264.5	1266.4
10°	1425.1	1531.2	1582.8	1599.1	1534.4	1453.9	1330.1	1229.6	1177.9	1177.0
12.5°	1370.6	1453.9	1468.3	1491.1	1472.1	1390.6	1296.6	1184.0	1133.7	1132.8
15°	1322.2	1377.1	1381.3	1413.4	1423.7	1368.7	1305.5	1185.4	1144.9	1140.7
17.5°	1364.6	1326.4	1310.6	1314.8	1345.0	1365.0	1356.6	1264.5	1223.1	1199.8
20°	1392.9	1307.8	1259.8	1264.5	1300.3	1373.4	1433.0	1379.0	1313.4	1316.2
22.5°	1468.8	1310.6	1235.6	1230.5	1287.3	1417.1	1519.1	1523.7	1460.4	1445.1
25°	1582.4	1342.7	1228.2	1226.8	1281.3	1464.2	1619.6	1695.0	1630.3	1601.9
27.5°	1673.6	1392.9	1251.5	1256.1	1300.3	1502.3	1705.2	1805.3	1756.0	1721.1
30°	1753.6	1445.1	1284.0	1262.6	1351.5	1522.3	1742.0	1931.0	1891.4	1862.5
32.5°	1786.7	1519.1	1335.7	1300.3	1393.9	1546.5	1818.3	2052.9	2018.9	1947.7
35°	1842.5	1560.5	1363.6	1360.8	1467.9	1604.7	1854.2	2133.4	2119.4	2056.1
37.5°	1887.2	1602.4	1462.8	1432.0	1569.3	1702.4	1911.9	2244.6	2212.5	2182.7
40°	1921.6	1677.3	1555.4	1595.9	1694.1	1791.3	1964.9	2251.6	2344.2	2257.7
42.5°	1890.0	1744.3	1707.6	1804.4	1897.4	1892.8	1971.0	2305.6	2374.9	2329.8
45°	1882.1	1857.9	1948.2	2036.1	2057.5	1977.0	1927.7	2246.0	2365.6	2345.6
47.5°	1863.0	1969.6	2126.9	2270.2	2237.7	2033.3	1876.0	2235.3	2371.2	2335.4
50°	1856.5	1993.8	2259.1	2398.7	2379.1	2082.2	1851.8	2166.4	2331.7	2328.4
52.5°	1856.0	2043.6	2314.0	2468.5	2480.6	2159.5	1884.9	2201.4	2362.4	2389.8
55°	1877.0	2027.8	2307.0	2429.9	2425.2	2125.0	1888.6	2224.6	2400.1	2427.1
57.5°	1770.4	1816.5	1904.0	2001.2	1976.1	1760.2	1686.6	2056.6	2202.7	2183.2
60°	1528.8	1384.6	1285.9	1281.3	1232.4	1164.9	1380.4	1835.5	1835.5	1816.5
62.5°	1339.0	908.9	780.9	744.6	779.5	857.3	1331.5	1785.3	1734.6	1712.7
65°	1171.0	693.9	564.5	554.3	614.8	732.1	1204.0	1520.9	1431.6	1359.0
67.5°	753.5	508.2	419.8	401.6	474.7	537.5	801.4	935.5	879.1	850.8
70°	485.9	330.9	233.6	219.2	247.6	331.4	511.9	545.5	463.5	444.5
72.5°	229.9	142.9	81.9	67.5	75.9	126.6	202.4	217.8	181.0	165.7
75°	73.1	52.6	33.5	28.9	27.5	32.6	46.5	35.8	26.1	25.6
77.5°	32.6	31.2	26.5	22.3	19.5	16.3	13.5	11.2	11.6	12.1
80°	27.0	24.7	21.9	19.5	16.3	12.6	9.8	7.4	7.4	7.9
82.5°	23.7	21.4	19.1	16.3	14.0	10.2	7.4	5.1	4.7	4.7
85°	10.2	12.1	13.0	14.0	11.2	8.4	5.1	3.3	2.8	2.8
87.5°	4.2	3.7	3.3	2.8	2.3	2.3	1.9	1.4	0.9	0.9
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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