

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: P526444

Luminaire Tested: **GALN-SA1B-827-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526444
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-SA1B-827-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA 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: 3152 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

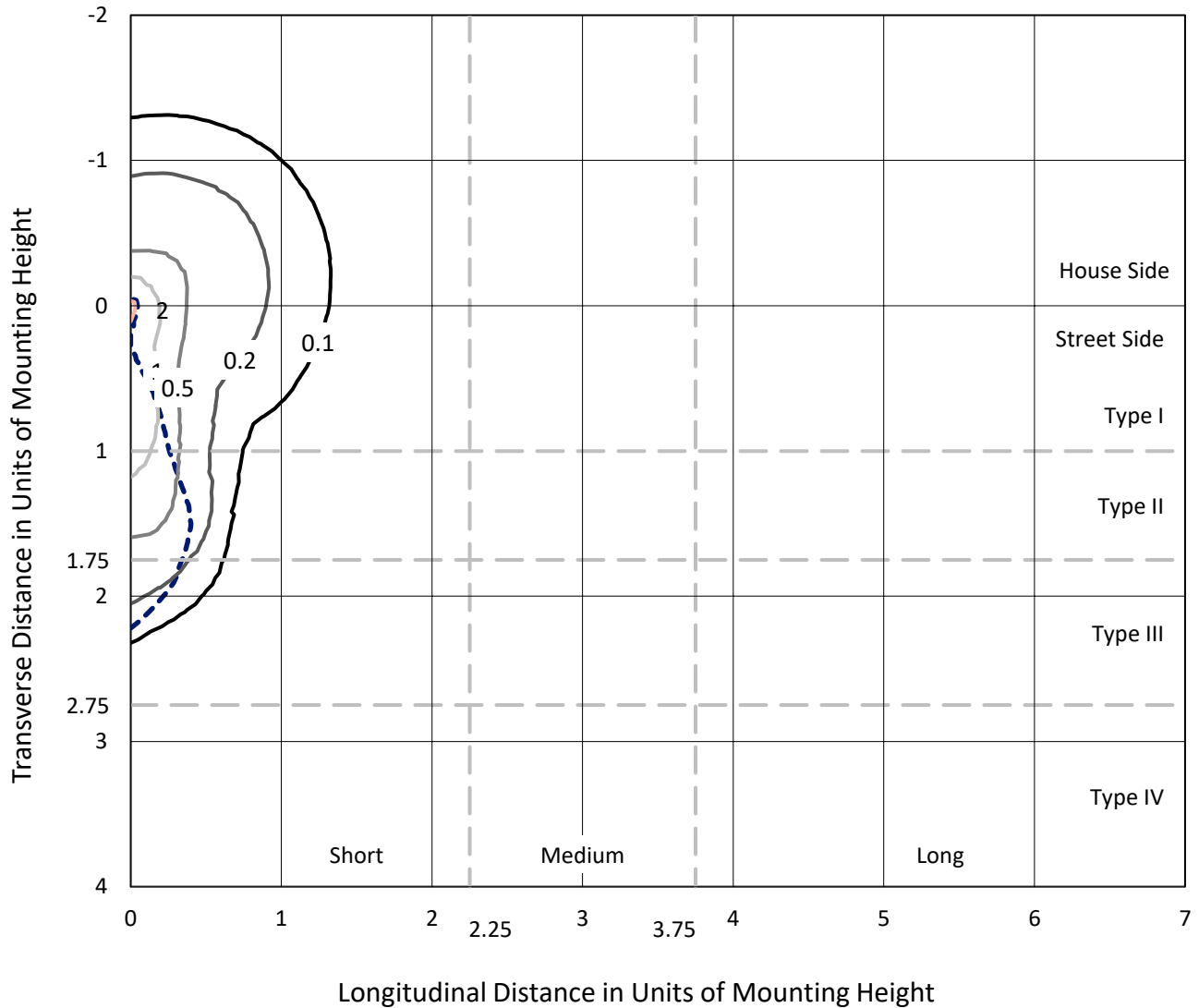
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

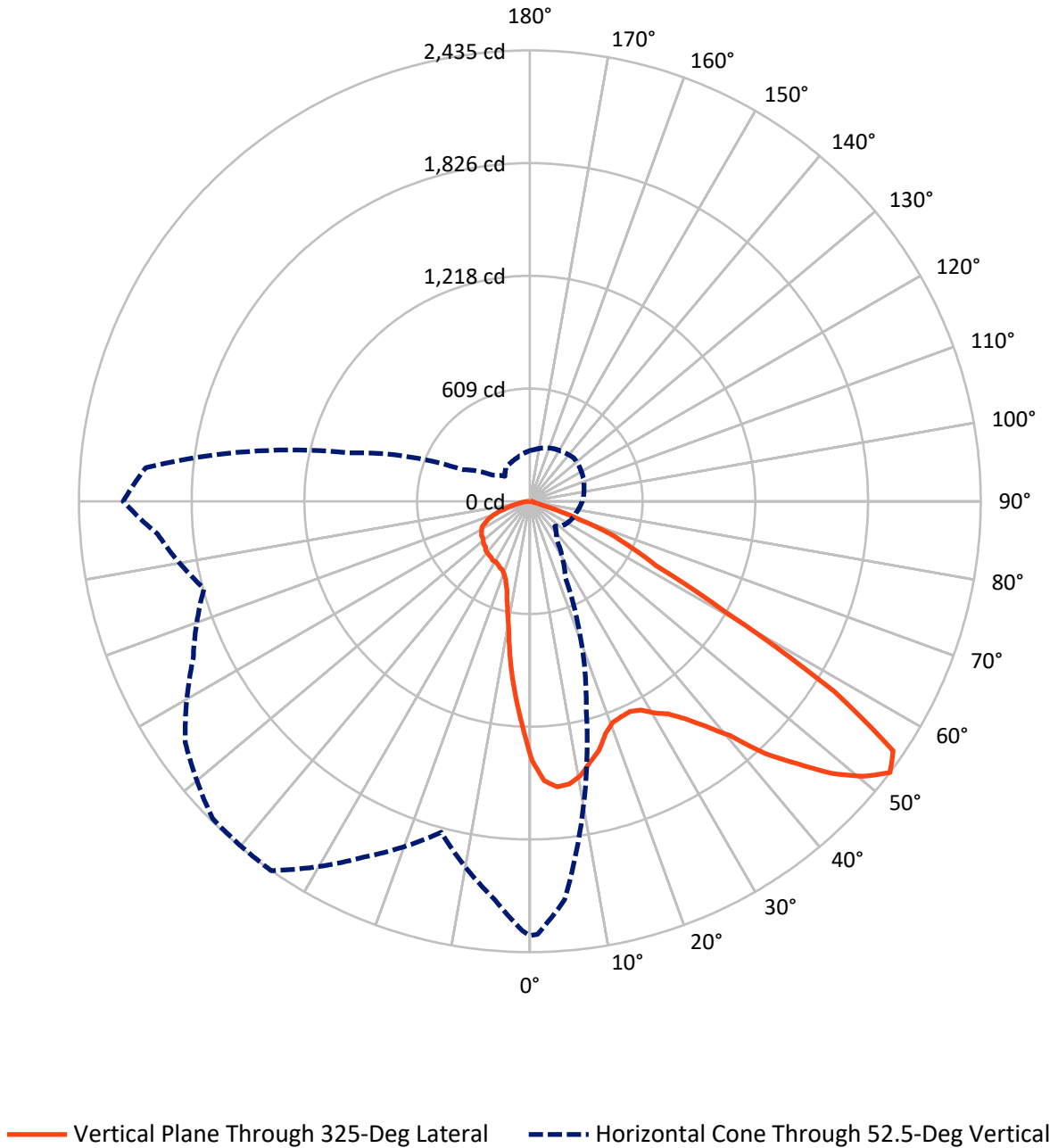
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	950.2	0.0	950.2
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	2201.8	0.0	2201.8
	% Fixture	69.9	0.0	69.9
Total	Lumens	3152.0	0.0	3152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	3.4
10°-20°	231.4	7.3
20°-30°	349.6	11.1
30°-40°	505.1	16.0
40°-50°	672.2	21.3
50°-60°	751.9	23.9
60°-70°	423.8	13.4
70°-80°	94.5	3.0
80°-90°	16.8	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°	3152.0	100.0
0°-180°	3152.0	100.0

Coefficient of Utilization



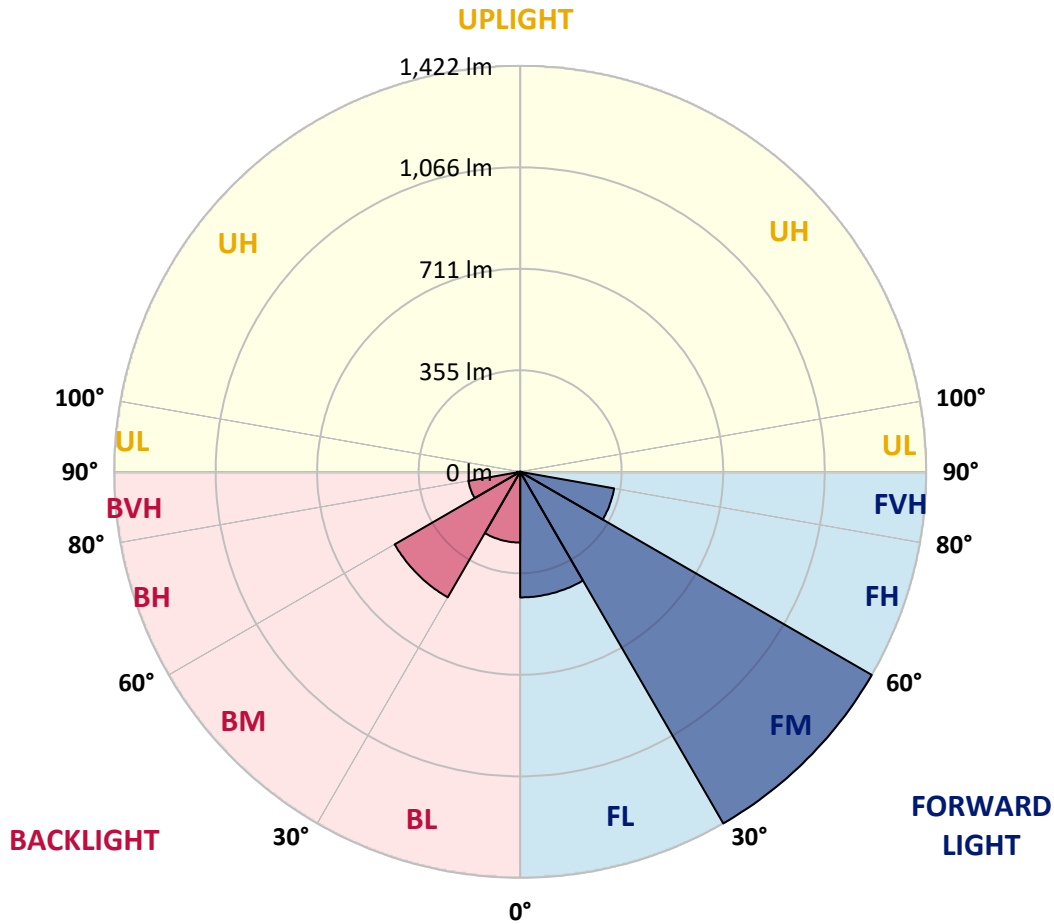
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	439.9	14.0			
FM (30°-60°)	1421.8	45.1			
FH (60°-80°)	334.1	10.6			G0/660
FVH (80°-90°)	6.1	0.2			G0/10
BL (0°-30°)	247.8	7.9	B1/500		
BM (30°-60°)	507.5	16.1	B1/1000		
BH (60°-80°)	184.2	5.8	B1/500		G1/500
BVH (80°-90°)	10.7	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°	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9
2.5°	1422.2	1445.0	1420.3	1376.5	1345.4	1317.1	1287.4	1281.5	1242.6	1235.8	1207.5
5°	1341.3	1336.3	1306.1	1248.6	1185.1	1127.5	1085.0	1043.9	1016.0	983.6	981.3
7.5°	1243.1	1213.9	1196.5	1109.2	1030.7	940.2	901.4	838.8	819.1	789.9	774.8
10°	1155.4	1133.9	1093.2	1006.0	896.3	836.5	794.9	761.1	738.3	708.1	670.2
12.5°	1112.0	1103.3	1057.6	922.4	841.1	777.1	747.9	715.0	676.1	627.7	609.0
15°	1119.7	1090.5	1055.8	906.4	794.0	732.3	685.7	644.6	594.8	548.7	521.7
17.5°	1177.8	1155.4	1085.9	916.4	776.2	687.1	602.6	541.8	497.1	455.5	436.7
20°	1292.0	1259.5	1181.4	929.2	737.8	624.1	527.2	452.3	404.3	382.4	376.0
22.5°	1418.5	1399.3	1274.6	958.0	707.2	565.6	447.3	372.3	354.5	348.6	360.5
25°	1572.5	1522.7	1419.4	1005.1	683.4	515.8	379.6	338.1	328.9	334.9	348.6
27.5°	1689.4	1676.2	1520.9	1049.4	651.0	455.9	341.7	314.3	317.1	323.0	335.8
30°	1828.3	1761.2	1619.1	1080.0	621.8	414.8	315.2	307.9	310.7	320.7	327.1
32.5°	1911.9	1886.8	1680.8	1126.1	588.0	379.2	294.7	287.8	291.9	307.0	322.1
35°	2018.4	1968.6	1757.0	1138.0	564.2	365.0	280.0	275.0	284.6	295.1	312.0
37.5°	2142.6	2108.4	1862.6	1129.8	551.4	350.4	267.7	265.4	272.3	286.9	306.5
40°	2216.2	2205.7	1917.9	1134.8	531.3	337.6	253.6	256.3	270.5	281.9	301.1
42.5°	2287.0	2218.5	1999.6	1133.0	518.5	320.3	254.9	251.7	262.7	275.9	294.2
45°	2302.5	2234.5	2018.8	1120.2	503.0	303.3	244.4	245.8	259.0	275.5	287.4
47.5°	2292.5	2242.2	2054.5	1116.5	488.4	291.5	228.9	245.3	253.1	266.3	283.2
50°	2285.6	2282.9	2084.6	1133.9	468.7	272.7	210.2	239.4	247.2	260.4	278.7
52.5°	2345.9	2340.0	2160.0	1179.6	453.2	252.6	191.0	224.3	243.0	255.8	273.7
55°	2382.5	2356.4	2289.3	1235.8	427.2	226.1	177.7	205.6	233.0	244.4	262.7
57.5°	2143.1	2125.3	2070.9	1153.5	383.3	191.4	161.3	186.4	219.3	237.1	255.8
60°	1783.1	1755.2	1615.9	980.4	282.8	148.9	151.2	171.3	215.6	222.5	244.4
62.5°	1681.2	1612.2	1422.6	789.0	217.0	127.9	135.7	157.6	196.4	207.9	229.8
65°	1334.0	1282.8	1017.9	569.7	145.3	111.0	123.8	142.1	169.5	191.9	212.0
67.5°	835.1	786.2	543.2	269.5	101.4	95.0	110.6	129.7	152.1	172.2	194.6
70°	436.3	382.8	250.8	97.3	69.9	77.7	92.3	110.6	132.5	148.9	166.3
72.5°	162.6	132.0	81.8	42.0	48.4	59.4	74.9	88.2	103.7	123.8	133.4
75°	25.1	21.5	21.0	25.6	32.9	42.9	53.5	66.7	80.4	93.2	99.6
77.5°	11.9	11.4	12.8	16.9	21.9	30.6	38.8	51.6	62.6	70.8	74.5
80°	7.8	7.3	8.2	11.4	16.4	22.8	31.1	39.7	49.8	56.6	55.7
82.5°	4.6	5.0	5.0	7.8	11.4	16.4	22.4	30.2	37.0	42.9	39.3
85°	2.7	2.3	2.3	4.6	7.8	13.2	18.7	12.8	13.2	13.2	15.1
87.5°	0.9	0.9	0.9	0.5	0.9	0.9	1.4	2.3	2.7	3.2	4.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9
2.5°	1206.5	1220.7	1215.7	1197.9	1211.6	1213.9	1204.7	1236.2	1242.2	1232.6	1235.3
5°	978.1	981.8	990.0	1007.4	1019.7	1034.3	1034.3	1035.2	1022.9	1054.0	1044.8
7.5°	762.0	764.3	773.9	810.9	821.4	849.3	861.2	852.9	828.3	817.8	826.4
10°	657.9	644.6	641.4	646.0	669.7	681.6	691.7	688.9	684.8	676.6	667.5
12.5°	588.4	578.8	571.1	560.1	561.5	572.9	580.7	574.3	576.1	577.9	580.7
15°	513.0	506.2	502.1	485.6	483.8	491.6	494.3	498.0	504.8	505.3	502.1
17.5°	433.1	427.2	436.3	445.4	439.0	439.5	444.5	447.7	445.9	437.7	433.6
20°	378.3	384.7	393.8	402.5	409.3	413.4	415.3	410.3	404.3	387.4	387.0
22.5°	362.3	370.5	378.3	391.5	397.9	408.4	398.8	387.4	379.2	371.0	361.4
25°	350.4	357.3	372.8	377.8	390.2	398.8	392.0	380.6	366.4	354.5	347.2
27.5°	341.7	349.5	359.5	373.2	382.8	387.9	381.0	376.4	361.8	347.7	337.2
30°	336.2	344.5	362.7	374.2	382.4	386.5	374.6	369.1	358.6	346.7	337.6
32.5°	332.6	339.9	355.4	370.0	375.5	375.5	377.4	371.0	356.3	336.2	328.5
35°	320.7	330.8	343.6	360.5	370.5	376.4	367.3	360.0	350.4	329.8	315.7
37.5°	313.9	320.7	337.2	353.1	361.8	368.2	364.6	351.8	339.0	322.1	310.7
40°	306.5	317.5	332.1	347.2	356.8	363.2	360.5	345.4	329.8	313.9	306.1
42.5°	301.5	308.8	323.9	340.8	352.2	364.6	356.3	337.6	326.6	304.7	296.0
45°	297.4	309.3	325.3	332.1	344.0	356.8	342.2	330.8	318.0	302.0	294.7
47.5°	292.4	303.3	313.9	332.1	337.6	343.6	340.8	322.5	311.6	294.2	289.2
50°	290.6	294.7	313.9	323.9	331.7	337.6	330.3	316.6	306.1	288.3	277.3
52.5°	283.2	291.0	303.3	316.6	326.2	333.5	321.6	312.9	298.8	280.0	273.2
55°	274.1	278.7	300.6	314.3	319.3	324.4	319.8	305.6	291.0	271.8	265.0
57.5°	262.2	272.7	290.6	309.7	316.1	318.9	311.6	300.2	281.9	265.0	254.0
60°	249.9	260.9	280.5	296.0	302.4	312.5	301.5	294.7	273.7	254.9	243.0
62.5°	237.6	249.9	264.5	284.2	289.6	293.8	291.0	281.4	264.5	243.5	228.9
65°	222.9	232.1	250.4	260.4	264.1	273.7	264.1	260.4	245.3	225.2	212.9
67.5°	201.0	208.8	224.8	234.4	237.1	241.2	240.8	236.6	219.7	206.0	195.1
70°	175.9	182.7	192.8	204.2	205.6	210.6	206.0	205.1	194.2	175.4	169.5
72.5°	141.2	147.6	160.8	165.8	166.3	168.1	165.8	162.6	159.9	140.3	134.3
75°	108.3	111.9	118.3	122.9	122.9	125.2	123.8	120.6	113.3	101.0	95.0
77.5°	75.4	79.0	87.3	90.0	89.5	90.5	86.3	83.1	72.2	65.8	60.8
80°	54.8	57.1	61.2	63.0	63.5	64.9	59.8	57.1	50.7	43.4	41.1
82.5°	39.7	41.1	41.6	43.9	43.9	41.6	40.2	37.5	32.9	28.3	26.5
85°	16.4	16.9	17.4	20.1	20.6	24.7	22.8	21.5	18.7	16.0	14.6
87.5°	4.1	4.6	5.9	5.0	5.9	5.9	6.4	7.3	7.3	5.9	5.9
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9
2.5°	1245.8	1249.5	1296.1	1302.0	1324.9	1348.2	1395.2	1429.0	1456.4	1474.3	1479.3
5°	1054.4	1077.7	1099.2	1133.9	1165.4	1210.2	1261.8	1325.8	1406.2	1447.3	1463.7
7.5°	825.5	852.9	884.0	917.8	964.0	1044.4	1113.3	1187.4	1290.1	1332.6	1397.0
10°	673.9	704.5	745.6	771.6	827.4	904.1	984.5	1069.9	1168.2	1229.4	1303.9
12.5°	595.7	620.9	658.8	713.6	755.2	805.0	864.8	972.6	1113.3	1171.4	1222.5
15°	509.4	537.3	581.1	641.9	691.7	751.1	818.2	935.6	1085.5	1175.0	1218.4
17.5°	438.1	458.2	504.4	556.9	614.0	678.9	775.3	933.8	1114.7	1229.4	1300.2
20°	388.8	391.5	416.6	461.4	539.1	623.6	748.8	924.7	1208.4	1323.0	1412.6
22.5°	357.7	355.0	355.4	393.3	447.7	569.2	707.2	955.7	1314.8	1472.0	1532.3
25°	342.2	334.9	330.3	338.5	387.9	504.8	675.7	996.8	1429.5	1594.9	1668.9
27.5°	334.0	321.2	312.0	313.4	349.5	472.4	656.0	1014.7	1543.2	1766.2	1792.2
30°	330.8	314.8	301.5	297.0	320.7	427.2	614.0	1045.3	1645.1	1860.3	1882.7
32.5°	319.3	299.7	286.9	282.8	292.4	387.4	583.9	1067.2	1735.1	1962.6	1954.9
35°	306.1	289.6	273.7	265.9	272.7	361.8	559.6	1056.7	1841.1	2042.1	2038.0
37.5°	304.7	283.2	270.0	257.2	256.8	330.3	526.7	1066.7	1908.7	2184.7	2128.5
40°	292.8	279.1	261.8	251.3	245.3	314.3	494.8	1043.0	2007.9	2242.2	2186.9
42.5°	293.3	272.7	257.7	245.3	239.4	291.0	472.8	1036.6	2042.6	2335.9	2214.4
45°	286.0	265.9	253.1	238.5	235.3	273.2	451.8	1006.9	2103.8	2340.4	2180.1
47.5°	278.7	260.9	247.2	229.8	222.5	266.8	435.4	982.2	2071.8	2297.5	2132.6
50°	273.7	253.1	240.3	228.0	207.4	255.8	413.9	976.3	2027.0	2239.5	2044.4
52.5°	265.0	246.7	233.5	223.9	191.0	245.8	405.7	1011.0	2081.9	2196.1	2018.8
55°	256.8	238.0	221.1	202.4	177.3	219.3	382.8	1043.4	2161.8	2296.1	2134.9
57.5°	248.1	230.3	212.0	189.6	164.0	191.9	359.1	1049.4	2012.0	2122.1	2026.6
60°	236.6	213.8	200.1	170.9	149.8	159.0	284.6	925.1	1560.6	1772.1	1775.3
62.5°	223.9	199.2	187.3	153.0	135.2	137.1	232.1	777.6	1265.9	1466.9	1554.2
65°	207.0	183.2	169.0	141.6	124.7	118.8	169.9	569.7	961.7	1190.1	1289.2
67.5°	185.0	162.6	144.8	123.3	111.5	101.9	116.0	320.7	567.9	799.0	829.2
70°	161.7	142.5	123.8	106.0	92.7	85.9	85.0	142.1	271.4	429.9	489.3
72.5°	127.5	113.8	98.7	85.4	76.8	66.7	60.8	58.9	91.8	175.0	241.7
75°	91.4	79.9	71.3	62.6	56.2	50.7	46.1	42.0	38.4	43.9	60.3
77.5°	57.6	53.5	46.6	44.3	40.7	39.3	37.5	35.2	32.4	30.6	30.6
80°	38.8	36.1	33.8	33.4	32.0	31.5	32.0	29.7	27.0	24.7	25.6
82.5°	26.0	25.6	25.1	24.7	25.1	25.6	26.5	26.0	23.8	22.4	22.8
85°	15.5	16.4	17.4	18.3	20.1	17.8	14.6	12.3	11.0	10.1	9.6
87.5°	5.9	8.2	7.3	6.9	7.3	6.9	6.4	5.9	5.0	4.6	4.6
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°	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9
2.5°	1512.6	1521.8	1529.5	1527.7	1511.7	1490.2	1481.6	1437.3	1428.1	1422.2
5°	1533.2	1586.2	1597.6	1590.8	1549.2	1496.6	1445.5	1380.6	1342.7	1341.3
7.5°	1495.3	1560.6	1581.2	1596.7	1541.4	1450.0	1362.3	1265.0	1241.3	1243.1
10°	1398.9	1503.0	1553.7	1569.7	1506.2	1427.2	1305.7	1207.0	1156.3	1155.4
12.5°	1345.4	1427.2	1441.4	1463.7	1445.0	1365.1	1272.8	1162.2	1112.9	1112.0
15°	1297.9	1351.8	1355.9	1387.5	1397.5	1343.6	1281.5	1163.6	1123.9	1119.7
17.5°	1339.5	1302.0	1286.5	1290.6	1320.3	1339.9	1331.7	1241.3	1200.6	1177.8
20°	1367.4	1283.8	1236.7	1241.3	1276.4	1348.2	1406.6	1353.6	1289.2	1292.0
22.5°	1441.8	1286.5	1212.9	1207.9	1263.6	1391.1	1491.2	1495.7	1433.6	1418.5
25°	1553.3	1318.0	1205.6	1204.3	1257.7	1437.3	1589.8	1663.9	1600.3	1572.5
27.5°	1642.8	1367.4	1228.5	1233.0	1276.4	1474.7	1673.9	1772.1	1723.7	1689.4
30°	1721.4	1418.5	1260.5	1239.4	1326.7	1494.4	1710.0	1895.5	1856.6	1828.3
32.5°	1753.8	1491.2	1311.2	1276.4	1368.3	1518.1	1784.9	2015.2	1981.8	1911.9
35°	1808.7	1531.8	1338.6	1335.8	1440.9	1575.2	1820.1	2094.2	2080.5	2018.4
37.5°	1852.5	1572.9	1435.9	1405.7	1540.5	1671.2	1876.7	2203.4	2171.9	2142.6
40°	1886.3	1646.5	1526.8	1566.5	1662.9	1758.4	1928.8	2210.2	2301.2	2216.2
42.5°	1855.3	1712.3	1676.2	1771.2	1862.6	1858.0	1934.8	2263.2	2331.3	2287.0
45°	1847.5	1823.7	1912.4	1998.7	2019.7	1940.7	1892.3	2204.8	2322.2	2302.5
47.5°	1828.8	1933.4	2087.8	2228.5	2196.5	1996.0	1841.6	2194.3	2327.7	2292.5
50°	1822.4	1957.1	2217.6	2354.6	2335.4	2044.0	1817.8	2126.6	2288.8	2285.6
52.5°	1821.9	2006.0	2271.5	2423.1	2435.0	2119.8	1850.2	2160.9	2319.0	2345.9
55°	1842.5	1990.5	2264.6	2385.2	2380.6	2086.0	1853.9	2183.7	2356.0	2382.5
57.5°	1737.9	1783.1	1869.0	1964.5	1939.8	1727.8	1655.6	2018.8	2162.3	2143.1
60°	1500.8	1359.1	1262.3	1257.7	1209.7	1143.5	1355.0	1801.8	1801.8	1783.1
62.5°	1314.4	892.2	766.6	731.0	765.2	841.5	1307.0	1752.5	1702.7	1681.2
65°	1149.4	681.2	554.2	544.1	603.5	718.6	1181.9	1493.0	1405.3	1334.0
67.5°	739.6	498.9	412.1	394.3	466.0	527.7	786.7	918.3	863.0	835.1
70°	477.0	324.8	229.3	215.2	243.0	325.3	502.5	535.4	455.0	436.3
72.5°	225.7	140.3	80.4	66.2	74.5	124.3	198.7	213.8	177.7	162.6
75°	71.7	51.6	32.9	28.3	27.0	32.0	45.7	35.2	25.6	25.1
77.5°	32.0	30.6	26.0	21.9	19.2	16.0	13.2	11.0	11.4	11.9
80°	26.5	24.2	21.5	19.2	16.0	12.3	9.6	7.3	7.3	7.8
82.5°	23.3	21.0	18.7	16.0	13.7	10.1	7.3	5.0	4.6	4.6
85°	10.1	11.9	12.8	13.7	11.0	8.2	5.0	3.2	2.7	2.7
87.5°	4.1	3.7	3.2	2.7	2.3	2.3	1.8	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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