

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: P526909

Luminaire Tested: **GALN-SA1D-827-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526909
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-SA1D-827-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA 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: 3181 lumens
Efficiency: N/A
Efficacy: 48.9 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

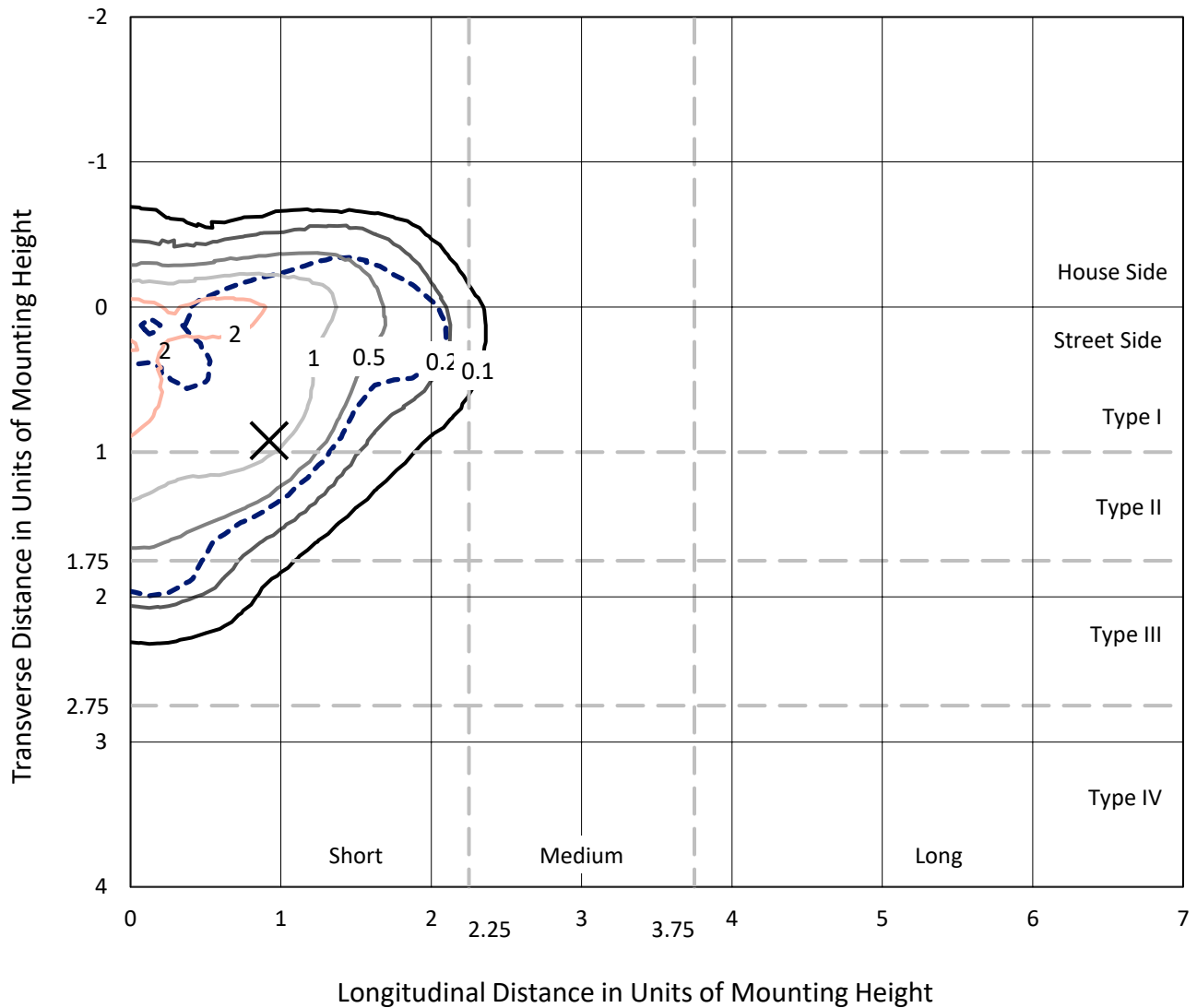
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

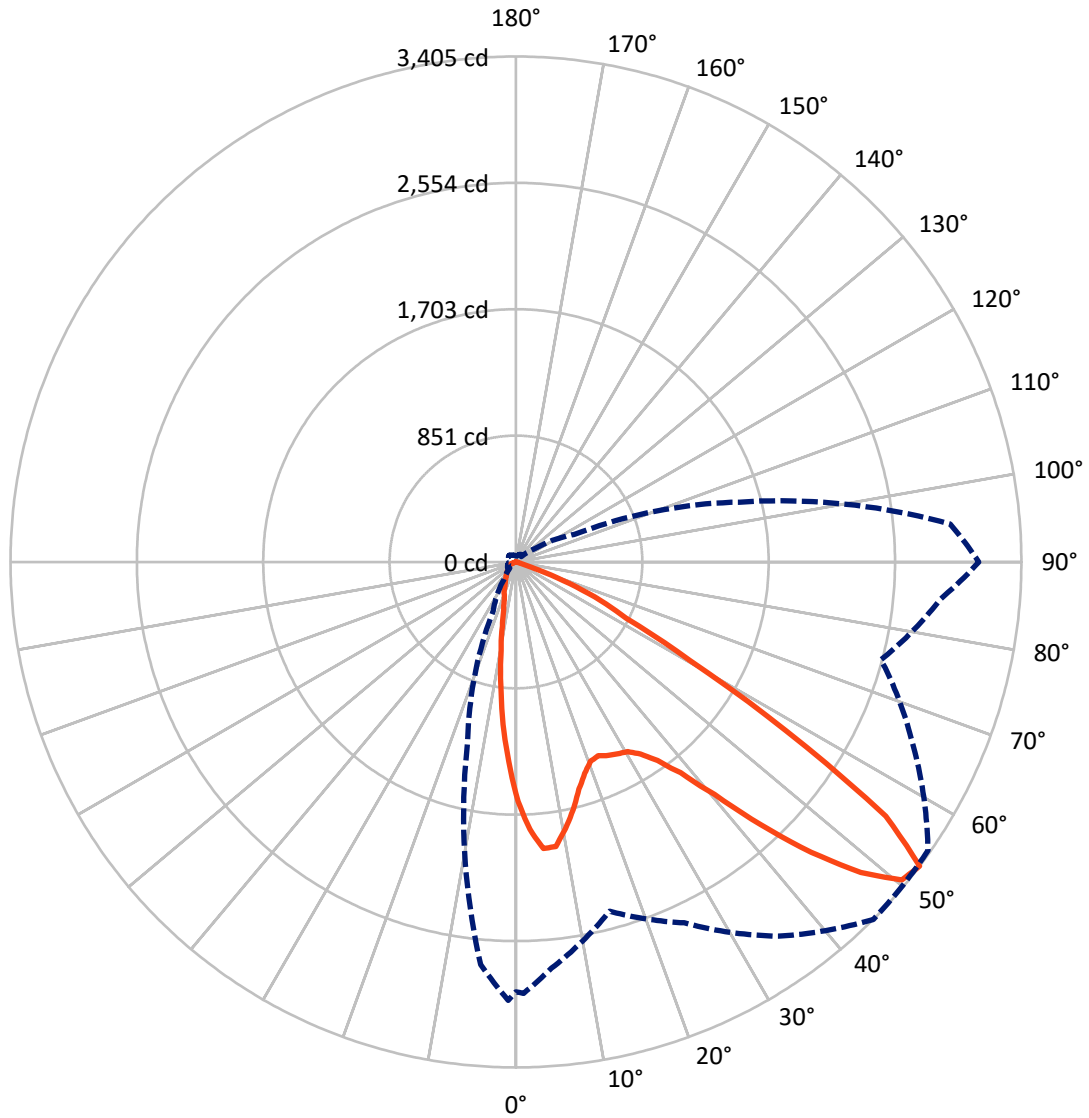
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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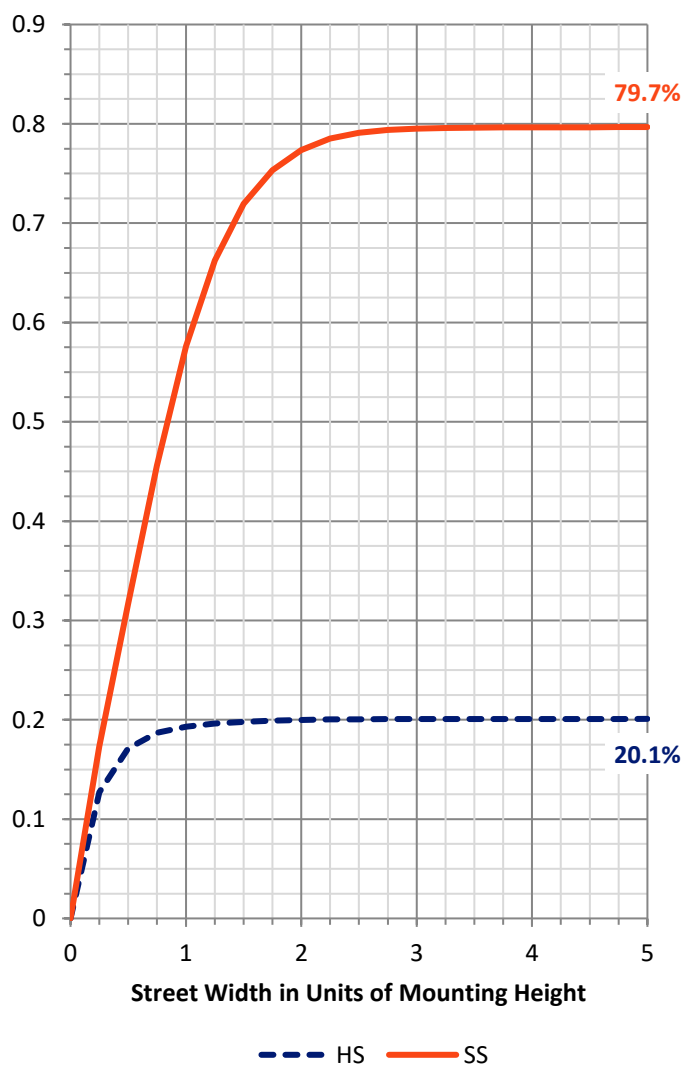
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	645.6	0.0	645.6
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	2535.4	0.0	2535.4
	% Fixture	79.7	0.0	79.7
Total	Lumens	3181.0	0.0	3181.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.6	3.7
10°-20°	232.1	7.3
20°-30°	353.2	11.1
30°-40°	527.9	16.6
40°-50°	751.7	23.6
50°-60°	808.1	25.4
60°-70°	358.1	11.3
70°-80°	29.0	0.9
80°-90°	3.4	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°	3181.0	100.0
0°-180°	3181.0	100.0

Coefficient of Utilization

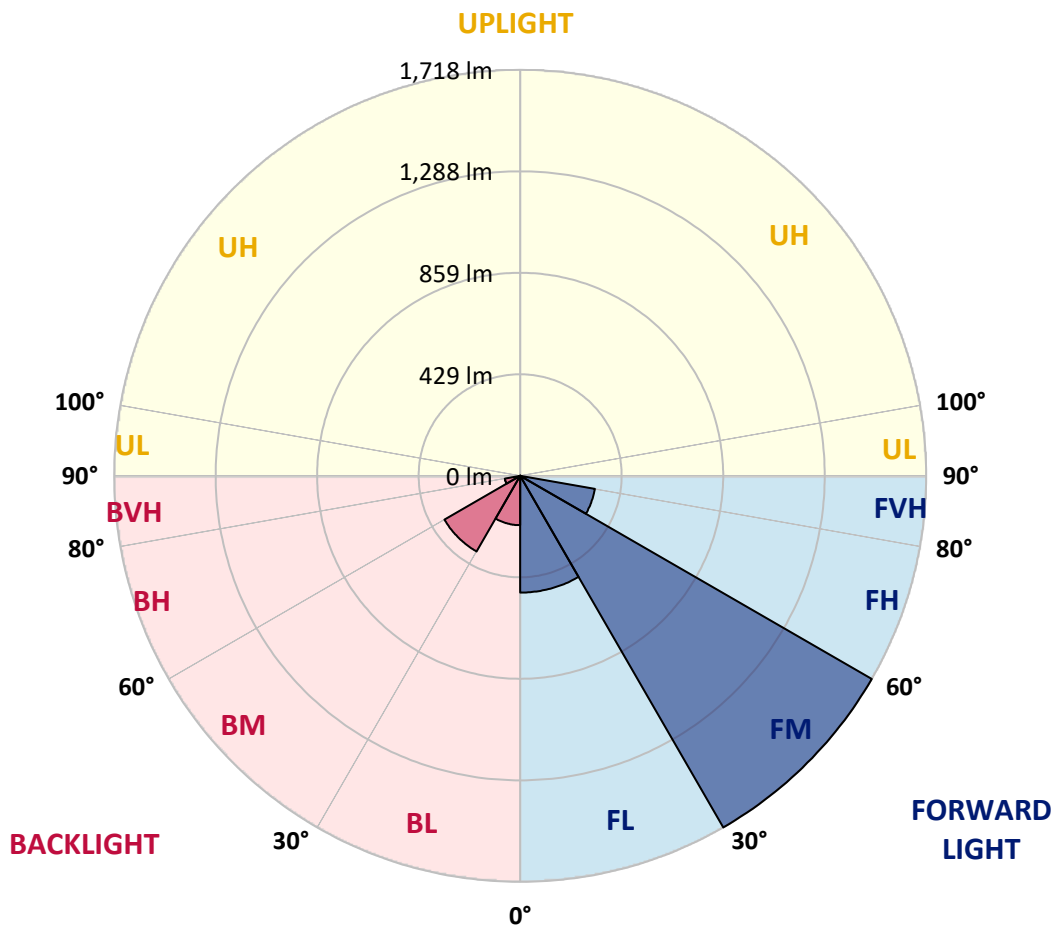


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	494.1	15.5			
FM (30°-60°)	1717.8	54.0			
FH (60°-80°)	321.0	10.1			G0/660
FVH (80°-90°)	2.5	0.1			G0/10
BL (0°-30°)	208.8	6.6	B1/500		
BM (30°-60°)	369.8	11.6	B1/1000		
BH (60°-80°)	66.1	2.1	B0/110		G0/110
BVH (80°-90°)	0.9	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°	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9
2.5°	1706.8	1711.8	1739.3	1773.7	1791.8	1833.1	1804.4	1811.9	1796.2	1741.2	1698.0
5°	1654.8	1654.2	1689.2	1774.3	1855.0	1937.0	1939.5	1895.7	1818.8	1734.3	1613.5
7.5°	1498.4	1522.8	1559.1	1694.9	1844.4	1905.7	1935.1	1883.8	1765.6	1644.8	1514.1
10°	1380.2	1392.7	1454.0	1617.9	1727.4	1809.4	1827.5	1798.1	1707.4	1556.6	1410.2
12.5°	1312.0	1318.2	1390.2	1527.8	1643.6	1704.3	1713.0	1726.8	1661.7	1520.3	1344.5
15°	1312.6	1317.6	1414.6	1529.7	1575.4	1559.1	1587.9	1587.3	1615.4	1513.4	1399.6
17.5°	1407.1	1412.7	1500.3	1557.2	1537.2	1499.0	1497.2	1526.0	1585.4	1599.2	1482.8
20°	1569.7	1582.9	1647.3	1644.2	1531.6	1454.6	1433.4	1455.3	1593.5	1671.7	1650.5
22.5°	1788.7	1806.9	1851.9	1765.6	1557.2	1424.6	1417.7	1460.3	1647.3	1833.8	1840.6
25°	2042.7	2073.4	2095.3	1984.5	1648.6	1476.5	1444.0	1517.2	1719.9	2009.6	2082.8
27.5°	2211.0	2242.9	2237.9	2079.6	1709.9	1490.3	1462.8	1531.0	1783.1	2051.5	2209.2
30°	2342.4	2361.8	2396.8	2130.9	1771.2	1529.1	1482.2	1589.1	1803.7	2124.1	2361.8
32.5°	2495.7	2508.8	2511.3	2221.7	1865.7	1577.9	1542.2	1661.7	1895.1	2193.5	2497.0
35°	2650.2	2669.6	2629.0	2333.7	1923.9	1668.6	1642.3	1787.5	1968.3	2265.5	2645.9
37.5°	2817.9	2827.9	2734.1	2380.0	2007.1	1816.2	1801.9	1923.2	2095.3	2395.6	2811.0
40°	2958.7	2968.1	2846.1	2436.9	2094.7	2022.7	2059.6	2182.3	2268.0	2480.1	2893.6
42.5°	3036.9	3058.8	2883.6	2405.6	2270.5	2256.7	2420.6	2463.8	2468.2	2503.8	2967.4
45°	3058.2	3048.1	2821.7	2431.3	2424.4	2641.5	2790.4	2847.3	2667.1	2547.6	2986.2
47.5°	2959.9	2973.1	2730.3	2408.7	2626.5	2933.0	3125.7	3231.5	2815.4	2509.5	2939.9
50°	2880.5	2863.6	2700.9	2392.5	2680.9	3070.7	3367.9	3391.6	2951.8	2556.4	2889.2
52.5°	2896.1	2906.8	2747.8	2435.6	2682.1	3078.8	3405.4	3389.1	2956.2	2545.8	2871.1
55°	2929.3	2882.4	2727.8	2340.5	2502.6	2851.7	3022.5	2997.5	2728.4	2432.5	2826.7
57.5°	2527.6	2600.2	2508.2	2089.7	2054.0	2148.5	2145.3	2222.3	2035.2	2093.4	2573.3
60°	2051.5	2064.0	2098.4	1787.5	1421.5	1388.9	1343.9	1295.1	1369.5	1790.0	2340.5
62.5°	1804.4	1789.3	1912.0	1626.1	1003.5	840.2	832.7	862.8	1056.7	1707.4	2195.4
65°	1311.4	1330.1	1419.0	1261.9	753.3	641.3	630.0	718.9	855.3	1368.3	1675.5
67.5°	800.8	837.1	845.2	778.3	511.2	406.0	389.8	470.5	617.5	885.3	982.3
70°	369.8	413.6	454.8	424.8	295.9	167.0	157.7	197.7	311.6	509.3	521.2
72.5°	112.0	112.6	157.7	164.5	95.7	37.5	33.2	43.8	105.7	168.3	177.1
75°	8.1	8.8	21.3	24.4	18.1	9.4	10.0	11.9	22.5	37.5	28.2
77.5°	0.6	0.6	0.6	3.1	5.6	6.3	8.1	9.4	11.9	13.8	12.5
80°	0.6	0.0	0.6	2.5	4.4	6.3	7.5	8.8	9.4	10.6	9.4
82.5°	0.0	0.0	0.0	1.9	4.4	6.3	6.9	9.4	10.6	12.5	10.6
85°	0.0	0.0	0.0	1.9	4.4	6.9	6.3	3.1	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°	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9
2.5°	1705.5	1681.1	1625.4	1597.3	1531.0	1521.6	1456.5	1445.9	1424.0	1412.1	1383.3
5°	1560.4	1531.0	1440.2	1363.9	1275.1	1213.1	1165.6	1122.4	1097.4	1074.2	1084.9
7.5°	1442.1	1356.4	1255.7	1128.0	1025.4	959.1	886.5	827.1	792.1	768.3	773.9
10°	1318.2	1262.6	1122.4	979.1	855.3	808.3	751.4	705.7	656.3	613.8	593.7
12.5°	1279.4	1196.9	1021.1	875.3	781.4	735.8	670.7	618.1	554.9	503.0	484.9
15°	1286.3	1206.9	993.5	837.7	727.0	648.2	570.6	505.5	436.1	399.8	381.0
17.5°	1398.3	1260.7	1011.7	798.3	651.3	541.8	446.1	363.5	311.6	274.0	265.9
20°	1536.0	1377.0	1050.5	769.5	589.4	431.1	326.0	254.6	211.5	205.2	203.3
22.5°	1737.4	1567.2	1133.7	750.1	513.7	336.0	223.4	185.2	173.3	172.1	172.7
25°	2019.0	1805.6	1224.4	733.9	456.7	259.0	182.7	157.0	153.3	151.4	154.5
27.5°	2141.0	1949.5	1272.6	698.8	404.8	233.4	180.2	155.8	145.1	142.0	143.9
30°	2291.7	2045.2	1348.3	638.8	328.5	192.1	168.3	169.6	164.5	148.9	143.9
32.5°	2491.9	2164.7	1386.4	596.2	293.4	158.9	123.3	113.2	126.4	128.9	133.3
35°	2620.2	2286.1	1405.8	571.2	275.3	135.8	104.5	95.1	92.0	92.6	95.1
37.5°	2858.6	2450.0	1430.2	544.9	261.5	118.2	94.5	85.7	81.3	81.3	83.8
40°	3001.2	2580.2	1463.4	530.5	247.8	107.6	85.7	78.2	74.5	74.5	75.7
42.5°	3036.9	2644.6	1452.1	525.5	232.1	105.1	78.2	72.6	68.2	67.6	66.9
45°	3100.7	2742.8	1454.0	519.9	215.8	95.7	73.8	67.6	61.3	60.7	60.1
47.5°	3170.8	2813.5	1457.8	498.0	200.2	80.1	77.0	62.6	55.1	53.8	53.8
50°	3110.7	2869.8	1490.3	476.1	180.2	65.1	75.7	58.8	48.8	46.9	47.5
52.5°	3118.2	2936.2	1559.1	445.5	155.2	51.9	61.3	55.7	44.4	41.3	41.9
55°	2998.1	2866.1	1568.5	412.9	121.4	40.0	46.9	48.8	37.5	36.3	36.3
57.5°	2580.8	2426.9	1383.9	334.7	80.1	33.2	33.8	42.5	32.5	31.3	31.9
60°	2208.5	1948.3	1113.6	220.9	50.1	26.3	24.4	43.2	28.8	28.2	30.0
62.5°	2013.3	1601.0	844.6	137.0	34.4	20.0	16.9	35.0	25.0	25.0	27.5
65°	1454.6	1075.5	491.1	71.9	24.4	15.6	12.5	20.0	20.6	21.3	22.5
67.5°	900.9	543.1	207.1	35.0	16.3	10.6	8.1	12.5	13.8	13.8	15.0
70°	444.8	216.5	68.8	20.0	12.5	8.8	5.6	6.9	6.9	6.3	6.9
72.5°	137.6	65.1	17.5	12.5	8.8	5.6	3.1	2.5	1.3	0.0	0.6
75°	15.6	12.5	11.3	8.8	5.6	2.5	0.6	0.0	0.0	0.0	0.0
77.5°	9.4	10.6	10.6	8.8	5.6	1.9	0.0	0.0	0.0	0.0	0.0
80°	7.5	8.1	8.8	8.1	5.0	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	9.4	10.6	11.9	10.6	6.9	3.1	1.3	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	1.9	0.6	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°	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9
2.5°	1371.4	1357.7	1377.0	1348.3	1347.6	1348.3	1340.1	1332.6	1344.5	1376.4	1379.5
5°	1046.7	1076.1	1085.5	1116.2	1099.3	1074.2	1079.2	1062.3	1103.6	1121.8	1107.4
7.5°	762.0	760.2	823.3	827.1	835.2	835.9	834.6	801.5	767.7	775.2	797.7
10°	591.2	559.3	590.0	586.9	606.9	601.2	609.4	573.7	585.6	585.6	600.0
12.5°	481.7	448.0	442.3	434.2	442.3	445.5	448.6	441.7	461.7	471.1	481.1
15°	367.9	349.1	344.1	328.5	331.0	339.7	347.2	350.4	344.1	358.5	359.7
17.5°	267.2	266.5	269.7	269.0	266.5	264.6	264.0	255.9	253.4	254.6	259.6
20°	202.7	207.7	218.4	229.0	234.6	227.7	218.4	204.6	199.0	200.2	200.8
22.5°	173.3	180.8	195.2	207.1	212.7	200.2	183.3	171.4	168.9	168.3	167.7
25°	157.0	165.8	176.4	180.2	179.6	172.1	159.5	154.5	153.3	152.0	146.4
27.5°	148.3	151.4	153.3	157.7	159.5	154.5	151.4	143.9	142.6	142.6	138.9
30°	143.3	141.4	143.9	140.8	143.3	139.5	140.1	140.1	137.0	138.3	138.3
32.5°	133.3	133.9	133.9	127.6	129.5	125.1	129.5	133.3	133.9	134.5	139.5
35°	97.6	108.9	114.5	114.5	116.4	113.2	112.6	108.2	102.6	97.0	94.5
37.5°	85.7	90.1	97.6	102.0	105.1	102.6	97.0	90.1	87.0	84.5	82.0
40°	76.3	80.1	85.1	90.1	96.3	93.2	84.5	81.3	77.6	77.6	75.1
42.5°	68.8	70.7	73.8	81.3	88.2	82.0	75.7	73.2	71.3	70.7	70.1
45°	61.9	62.6	65.7	71.9	80.1	73.8	67.6	64.4	65.1	65.7	65.1
47.5°	55.7	56.9	58.8	66.3	71.3	68.2	61.3	59.4	59.4	59.4	60.1
50°	48.2	51.3	55.1	61.3	65.1	63.2	57.6	55.1	53.8	53.8	54.4
52.5°	43.2	45.7	50.7	58.2	63.2	60.1	54.4	50.7	48.2	47.5	48.8
55°	37.5	41.9	50.1	55.7	62.6	59.4	53.2	48.8	44.4	43.8	43.8
57.5°	33.8	40.7	48.2	55.1	60.7	58.2	53.2	47.5	41.9	41.3	41.3
60°	31.9	39.4	46.9	53.2	60.7	56.9	52.6	46.3	40.0	40.0	39.4
62.5°	30.0	36.9	44.4	50.7	58.2	55.1	50.7	44.4	38.2	38.2	36.9
65°	25.0	31.9	36.9	42.5	50.7	47.5	43.2	38.8	33.8	32.5	33.2
67.5°	17.5	21.9	26.9	32.5	37.5	36.3	34.4	31.3	26.9	26.3	25.7
70°	8.8	11.9	16.3	21.9	26.3	25.0	23.8	21.3	18.8	18.1	18.1
72.5°	1.3	3.8	6.9	10.0	13.8	14.4	13.8	13.1	12.5	11.9	12.5
75°	0.0	0.0	0.0	2.5	5.6	6.9	8.1	9.4	9.4	8.1	10.0
77.5°	0.0	0.0	0.0	0.0	0.6	3.1	6.3	8.1	10.0	8.8	11.9
80°	0.0	0.0	0.0	0.0	0.6	3.8	6.3	8.8	10.0	8.8	12.5
82.5°	0.0	0.0	0.0	0.0	0.6	4.4	6.3	8.1	9.4	8.8	11.3
85°	0.0	0.0	0.0	0.0	1.9	3.8	2.5	1.3	0.6	0.6	1.9
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°	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9
2.5°	1397.1	1441.5	1489.0	1507.2	1563.5	1606.0	1634.8	1696.8	1706.1	1706.8
5°	1122.4	1144.9	1226.3	1264.4	1348.3	1413.3	1482.8	1582.9	1649.8	1654.8
7.5°	797.7	860.3	894.7	994.2	1097.4	1199.4	1302.6	1419.0	1496.5	1498.4
10°	641.9	682.6	743.9	818.3	905.3	1009.2	1146.8	1281.9	1360.8	1380.2
12.5°	516.8	588.1	658.2	735.1	801.5	879.7	1027.9	1208.1	1273.2	1312.0
15°	397.9	463.0	545.6	635.7	710.7	815.2	984.1	1190.0	1299.5	1312.6
17.5°	293.4	351.6	427.9	513.0	625.6	773.9	991.6	1281.9	1385.2	1407.1
20°	210.8	244.6	304.7	403.5	546.8	725.7	999.2	1375.2	1532.2	1569.7
22.5°	167.0	180.8	220.2	307.8	458.6	675.1	1052.3	1553.5	1734.3	1788.7
25°	145.1	152.7	171.4	242.8	402.9	670.1	1137.4	1767.4	2003.3	2042.7
27.5°	140.1	141.4	157.7	222.7	372.9	636.9	1170.0	1919.5	2171.0	2211.0
30°	147.7	167.7	168.9	188.3	317.2	571.2	1186.9	2066.5	2313.0	2342.4
32.5°	127.6	121.4	125.8	145.8	279.0	533.1	1218.8	2194.8	2475.1	2495.7
35°	88.8	93.2	103.2	126.4	244.0	493.0	1226.9	2336.2	2629.0	2650.2
37.5°	82.0	84.5	92.6	107.6	214.6	470.5	1215.6	2439.4	2788.5	2817.9
40°	76.3	79.5	83.8	97.6	192.7	445.5	1200.0	2532.6	2886.1	2958.7
42.5°	71.9	74.5	78.2	93.2	173.9	420.4	1178.1	2664.0	2973.7	3036.9
45°	66.9	70.7	75.1	90.7	163.3	403.5	1161.8	2655.9	3024.4	3058.2
47.5°	61.9	68.2	73.2	84.5	160.2	395.4	1168.7	2625.2	2983.1	2959.9
50°	56.9	65.1	73.8	70.1	152.7	379.1	1176.8	2667.1	2884.9	2880.5
52.5°	52.6	61.9	68.8	57.6	135.8	363.5	1255.7	2722.2	2954.3	2896.1
55°	46.3	55.7	55.1	46.3	110.1	351.6	1317.6	2723.4	2907.4	2929.3
57.5°	41.9	49.4	43.2	38.8	81.3	294.1	1216.9	2283.6	2488.8	2527.6
60°	38.8	48.2	32.5	30.7	53.2	212.1	1062.3	1768.7	1978.3	2051.5
62.5°	35.7	45.7	25.7	25.0	36.9	150.8	873.4	1480.3	1704.9	1804.4
65°	31.3	32.5	20.6	19.4	26.3	81.3	531.8	1019.2	1274.4	1311.4
67.5°	25.7	25.0	16.9	15.6	17.5	39.4	234.6	510.5	738.9	800.8
70°	20.6	20.6	14.4	12.5	12.5	18.1	61.3	203.3	334.1	369.8
72.5°	15.0	15.6	11.3	10.0	9.4	8.8	10.0	40.7	87.6	112.0
75°	13.1	13.8	11.3	8.8	6.9	5.6	4.4	3.8	5.0	8.1
77.5°	14.4	14.4	11.9	8.1	6.3	4.4	2.5	1.3	1.3	0.6
80°	18.1	18.8	15.6	10.6	7.5	5.0	3.1	1.3	0.6	0.6
82.5°	19.4	21.3	17.5	13.1	9.4	5.6	3.1	0.6	0.0	0.0
85°	5.0	8.1	13.8	11.9	9.4	5.6	3.1	0.6	0.0	0.0
87.5°	0.0	0.6	1.9	1.9	2.5	2.5	1.9	0.6	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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