

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: P646733

Luminaire Tested: **GALN-SA1C-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-835-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3079.5 lumens
Efficiency: N/A
Efficacy: 54.0 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

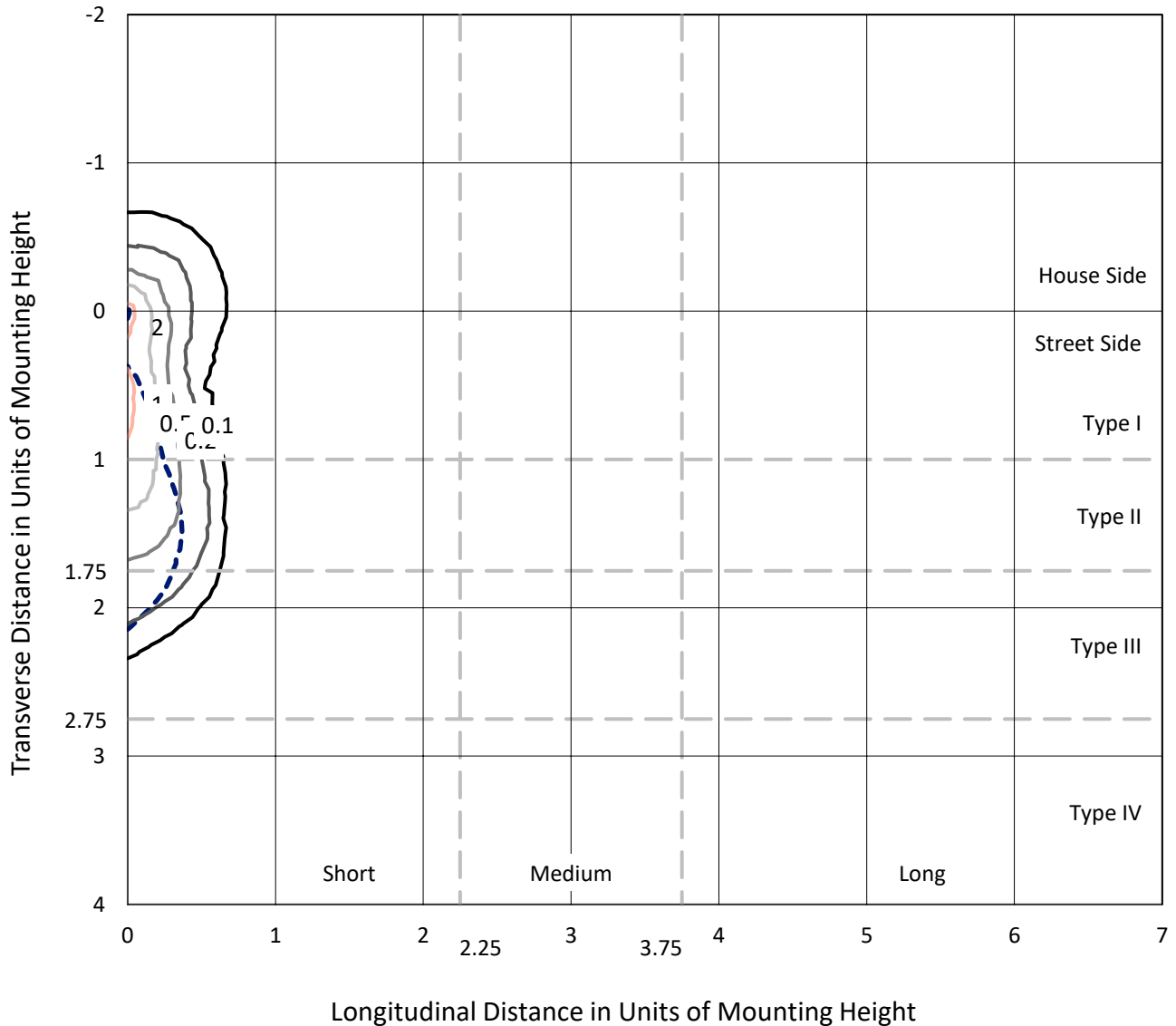
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

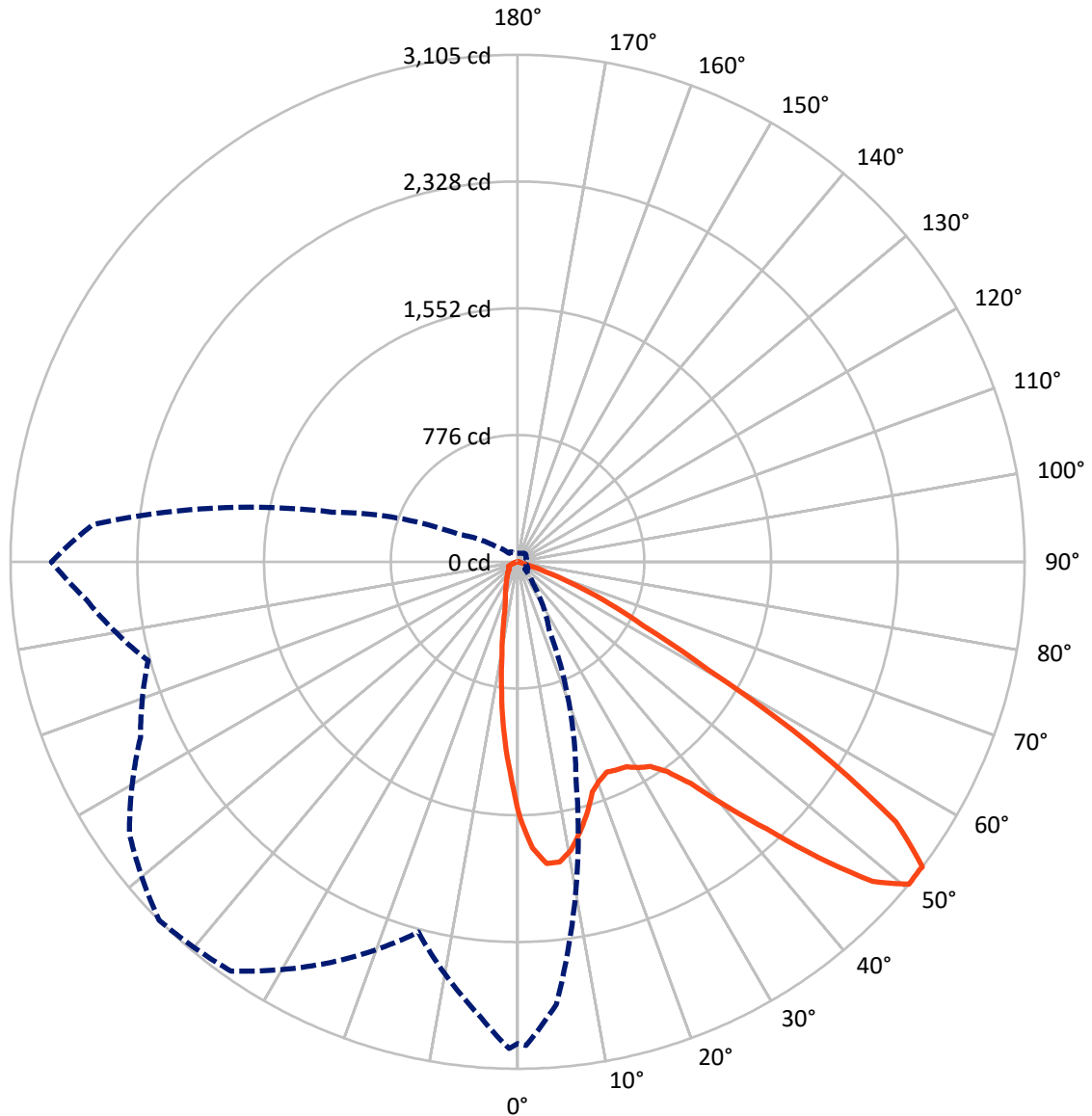
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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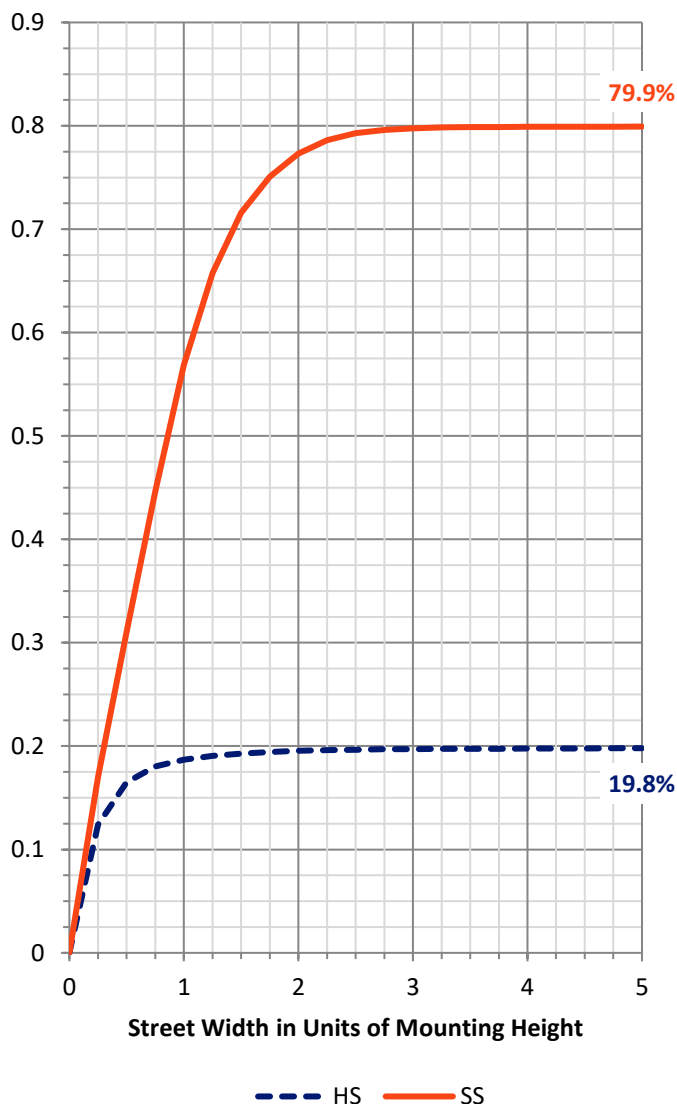
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	616.8	0.0	616.8
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	2462.7	0.0	2462.7
	% Fixture	80.0	0.0	80.0
Total	Lumens	3079.5	0.0	3079.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	3.7
10°-20°	226.2	7.3
20°-30°	339.9	11.0
30°-40°	510.1	16.6
40°-50°	717.0	23.3
50°-60°	773.4	25.1
60°-70°	359.1	11.7
70°-80°	33.8	1.1
80°-90°	6.2	0.2
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°	3079.5	100.0
0°-180°	3079.5	100.0

Coefficient of Utilization

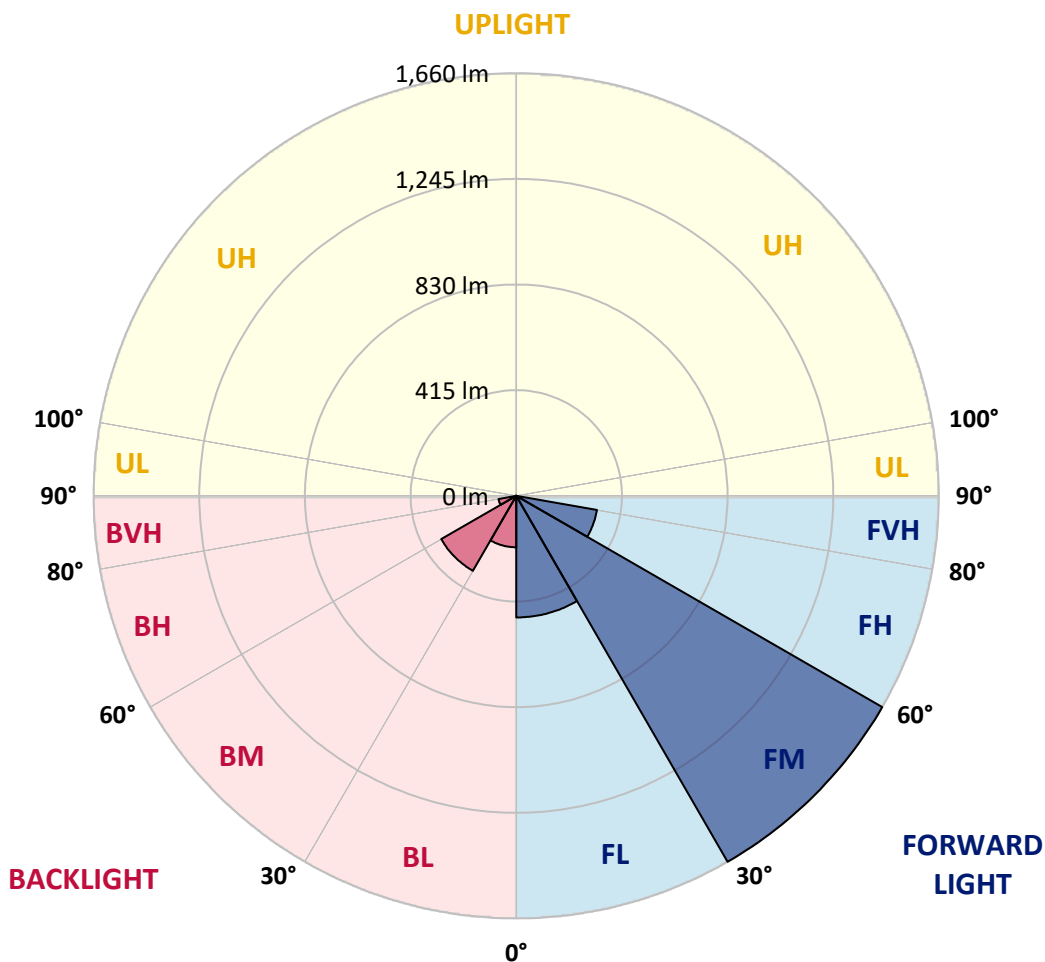


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	477.8	15.5			
FM (30°-60°)	1660.1	53.9			
FH (60°-80°)	322.0	10.5			G0/660
FVH (80°-90°)	2.8	0.1			G0/10
BL (0°-30°)	202.2	6.6	B1/500		
BM (30°-60°)	340.4	11.1	B1/1000		
BH (60°-80°)	70.8	2.3	B0/110		G0/110
BVH (80°-90°)	3.4	0.1			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°	1561.7	1561.7	1561.7	1561.7	1561.7	1561.7	1561.7	1561.7	1561.7	1561.7	1561.7
2.5°	1623.4	1598.3	1566.6	1540.3	1501.2	1422.4	1401.0	1375.3	1354.0	1325.2	1284.9
5°	1476.2	1468.2	1453.6	1354.6	1283.1	1187.8	1109.6	1076.5	1033.2	997.8	972.1
7.5°	1363.8	1332.0	1285.5	1185.9	1071.7	969.7	882.9	832.2	774.8	755.2	720.4
10°	1243.4	1250.7	1182.3	1042.3	904.3	821.8	768.0	719.1	667.2	633.0	583.5
12.5°	1204.9	1181.1	1128.5	955.6	837.7	760.7	695.3	634.9	579.8	524.8	477.2
15°	1229.9	1193.3	1119.9	937.3	786.4	690.4	608.5	526.6	476.0	405.7	356.2
17.5°	1319.7	1290.5	1192.0	956.8	760.1	623.2	501.7	417.3	339.7	276.2	251.1
20°	1469.5	1427.9	1304.5	981.9	721.0	542.0	406.9	303.0	229.7	202.9	188.8
22.5°	1616.1	1593.5	1437.7	1030.1	686.1	469.9	305.5	204.0	171.7	166.8	157.6
25°	1895.3	1827.5	1641.2	1117.5	659.3	402.1	230.4	164.4	145.4	141.7	143.0
27.5°	2061.5	2004.7	1829.3	1175.6	629.3	350.1	194.9	150.9	138.1	130.1	127.1
30°	2221.0	2155.0	1922.8	1209.8	565.2	295.1	172.9	144.8	141.7	130.1	126.5
32.5°	2343.8	2279.0	2057.9	1261.1	538.9	259.6	142.3	113.1	105.1	103.9	114.9
35°	2532.0	2462.9	2173.3	1289.2	518.7	241.3	123.4	100.9	91.6	88.0	88.6
37.5°	2707.3	2660.3	2280.3	1300.2	497.4	235.8	110.6	90.4	82.4	80.0	79.4
40°	2854.0	2748.9	2381.7	1311.8	488.2	225.4	102.7	82.4	77.0	73.3	73.3
42.5°	2921.2	2814.3	2495.3	1305.1	485.8	209.0	102.7	75.8	71.5	67.8	67.2
45°	2906.5	2863.1	2546.0	1302.1	485.8	192.5	93.5	73.9	67.8	63.0	61.7
47.5°	2944.4	2887.5	2609.6	1314.9	476.0	180.9	78.8	77.6	64.1	58.0	56.8
50°	2951.1	2962.1	2720.1	1381.4	454.6	166.2	61.7	76.3	61.7	52.5	51.3
52°	2995.1	2926.7	2753.8	1416.9	432.0	155.2	51.9	65.4	59.3	48.9	47.7
52.5°	2934.6	2979.2	2761.7	1429.8	434.4	147.8	50.1	64.1	58.0	48.9	45.8
55°	2866.8	2909.5	2729.3	1457.2	398.4	116.1	39.1	46.4	52.5	42.8	41.0
57.5°	2491.7	2535.0	2371.9	1334.4	324.5	81.9	32.4	34.8	46.4	39.7	37.9
60°	2214.9	2183.7	1990.6	1113.3	230.4	45.8	25.7	26.9	50.7	36.6	36.0
62.5°	2024.2	1957.7	1663.7	859.7	140.5	30.5	20.2	20.7	39.1	34.2	34.2
65°	1497.6	1423.0	1105.3	520.0	69.1	21.4	15.3	16.5	24.4	29.4	29.4
67.5°	854.8	826.1	534.0	234.6	28.7	13.5	11.6	12.8	18.9	23.8	22.6
70°	392.9	352.6	205.3	49.5	13.5	9.2	9.2	10.4	15.3	17.7	16.5
72.5°	114.9	108.8	50.1	7.9	5.5	5.5	6.1	7.9	11.6	13.5	12.2
75°	8.5	5.5	3.7	2.4	2.4	3.7	4.9	7.9	11.6	12.8	10.4
77.5°	0.6	1.3	0.6	0.6	1.8	3.7	5.5	9.8	15.3	15.9	11.6
80°	0.6	0.6	0.0	0.6	1.8	3.7	6.1	11.0	17.1	18.3	9.8
82.5°	0.0	0.0	0.0	0.6	2.4	4.9	7.4	11.6	15.9	19.6	10.4
85°	0.0	0.0	0.0	0.6	3.7	6.7	8.5	3.1	1.8	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°	1561.7	1561.7	1561.7	1561.7	1561.7	1561.7	1561.7	1561.7	1561.7	1561.7	1561.7
2.5°	1313.6	1297.7	1291.6	1297.1	1295.3	1293.5	1327.1	1319.7	1318.6	1329.5	1327.1
5°	986.2	958.1	1035.0	1003.9	1036.2	1055.8	1059.5	1061.3	1083.9	1060.1	1091.3
7.5°	702.7	709.9	709.4	730.1	767.4	800.4	820.0	804.7	803.4	800.4	787.0
10°	561.5	548.6	546.2	541.4	553.0	581.1	604.9	585.9	572.5	590.9	585.4
12.5°	458.8	441.1	431.4	411.8	412.4	431.4	431.4	431.4	444.8	455.2	463.1
15°	352.0	337.2	337.2	317.7	313.4	314.1	323.8	325.0	346.4	352.6	355.6
17.5°	246.3	238.3	247.4	255.4	250.5	251.7	255.4	256.6	259.6	257.2	263.3
20°	189.4	188.2	190.7	204.7	215.1	221.2	216.9	210.8	207.1	198.6	198.6
22.5°	160.7	163.1	167.4	179.0	192.5	196.1	191.2	177.2	166.2	165.0	165.6
25°	143.0	145.4	152.1	159.5	166.8	172.9	168.0	157.6	151.5	146.0	146.0
27.5°	132.0	133.2	136.9	142.3	148.5	153.4	151.5	146.0	139.3	136.9	131.4
30°	123.4	125.3	129.5	130.8	136.2	138.7	135.6	134.4	130.1	127.1	125.3
32.5°	119.2	118.5	121.6	122.8	123.4	125.3	121.6	123.4	122.8	117.9	116.1
35°	89.8	94.7	102.7	109.4	111.2	113.6	113.1	110.6	103.9	98.3	91.6
37.5°	80.6	83.7	88.0	93.5	100.9	103.9	102.7	96.5	88.6	85.0	83.7
40°	74.5	76.3	80.0	83.7	91.1	96.5	92.2	86.8	80.6	77.6	75.8
42.5°	69.1	69.7	71.5	75.2	80.6	89.2	81.9	74.5	72.1	70.2	69.1
45°	63.0	63.0	65.4	67.2	73.3	81.3	73.9	67.2	66.0	64.8	64.1
47.5°	58.0	58.6	59.9	62.3	67.2	72.7	67.8	62.3	59.3	58.6	57.5
50°	51.9	52.5	55.0	57.5	63.6	66.6	63.6	57.5	54.3	52.5	52.5
52°	47.1	48.9	51.3	56.2	60.5	65.4	61.7	55.0	51.3	49.5	48.2
52.5°	46.4	47.7	50.1	55.6	60.5	64.8	61.1	54.3	50.1	48.9	47.7
55°	41.6	43.4	47.7	54.3	59.9	64.8	59.9	53.8	47.7	44.6	43.4
57.5°	39.7	41.0	46.4	55.0	59.3	64.8	59.9	53.8	47.7	42.1	41.0
60°	37.9	40.3	46.4	53.2	58.6	65.4	60.5	53.2	46.4	39.7	39.7
62.5°	36.0	37.9	45.8	51.9	56.2	63.0	58.0	51.9	44.6	37.9	37.3
65°	31.2	34.2	40.3	43.4	48.2	54.3	49.5	45.2	39.1	33.6	33.0
67.5°	23.8	25.1	29.9	33.6	36.6	42.1	39.7	34.2	29.9	25.7	25.7
70°	16.5	17.7	21.4	23.3	26.3	29.4	27.5	23.3	20.2	17.7	17.1
72.5°	11.6	12.2	13.5	14.6	15.9	17.1	16.5	13.5	11.6	11.0	10.4
75°	9.2	10.4	11.0	10.4	9.8	9.2	9.2	7.9	6.7	6.1	6.1
77.5°	9.2	9.8	9.2	7.9	6.7	6.1	5.5	4.9	3.7	3.1	3.7
80°	7.9	7.9	7.9	6.7	6.1	5.5	4.9	4.3	3.7	3.1	3.1
82.5°	8.5	8.5	7.9	6.7	6.7	5.5	5.5	4.9	4.3	3.1	3.1
85°	0.0	0.0	0.0	1.3	3.1	5.5	5.5	4.9	4.3	3.7	3.7
87.5°	0.0	0.0	0.0	0.0	0.6	1.3	2.4	3.1	3.7	3.7	3.7
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1561.7	1561.7	1561.7	1561.7	1561.7	1561.7	1561.7	1561.7	1561.7	1561.7	1561.7
2.5°	1349.1	1372.3	1416.3	1460.3	1487.2	1518.9	1576.4	1607.0	1646.6	1666.2	1704.7
5°	1087.0	1141.9	1161.5	1211.6	1265.4	1319.1	1404.7	1498.8	1577.0	1630.8	1700.4
7.5°	793.1	805.9	881.7	915.2	1003.3	1101.1	1217.7	1336.3	1435.2	1523.2	1576.4
10°	594.5	641.5	689.2	753.3	824.3	925.0	1036.8	1167.6	1295.9	1384.0	1451.1
12.5°	477.8	515.1	578.6	647.7	735.0	801.6	914.1	1043.6	1209.8	1295.9	1384.5
15°	361.7	409.4	481.5	553.0	645.2	715.5	829.1	992.3	1206.1	1324.7	1401.0
17.5°	268.3	300.6	365.3	445.4	539.5	638.5	791.8	986.7	1247.1	1388.2	1467.0
20°	205.3	216.3	257.2	328.7	430.7	560.3	731.4	1010.6	1368.1	1542.7	1622.8
22.5°	166.2	171.1	187.0	236.5	335.4	491.9	702.7	1027.1	1504.3	1727.9	1834.8
25°	144.8	143.6	153.9	175.4	262.1	427.7	666.0	1089.4	1671.1	1945.4	2041.4
27.5°	132.0	132.0	136.9	152.1	217.5	386.2	642.8	1134.0	1839.1	2136.7	2188.6
30°	125.3	126.5	140.5	145.4	180.9	336.7	604.2	1179.2	1999.8	2258.9	2330.4
32.5°	116.1	111.2	108.1	120.3	152.1	292.1	565.8	1198.1	2129.9	2408.6	2469.7
35°	89.2	86.8	90.4	99.6	130.8	254.2	523.0	1219.5	2279.6	2582.1	2594.3
37.5°	80.6	80.0	82.4	90.4	110.0	221.2	492.4	1214.0	2393.9	2725.7	2692.7
40°	74.5	74.5	76.3	83.1	98.3	197.9	460.7	1209.2	2504.5	2887.0	2790.5
42.5°	69.7	69.7	72.7	77.0	93.5	182.7	436.8	1202.5	2597.4	2986.0	2847.8
45°	63.0	64.8	69.7	73.9	94.7	172.3	419.1	1176.8	2629.2	2984.7	2820.4
47.5°	58.0	60.5	65.4	71.5	85.5	169.3	406.9	1154.1	2618.1	2911.4	2734.2
50°	52.5	55.6	62.3	72.7	72.7	163.1	394.1	1174.3	2610.2	2854.6	2651.7
52°	48.9	51.3	59.9	70.9	63.6	150.3	386.2	1213.4	2642.5	2847.2	2615.1
52.5°	48.2	50.1	58.0	69.7	60.5	147.8	380.6	1222.6	2653.0	2828.9	2640.1
55°	42.8	45.2	53.2	54.3	49.5	121.6	362.9	1243.4	2601.7	2792.9	2616.3
57.5°	40.3	41.6	47.1	44.6	42.8	91.6	312.2	1211.0	2310.8	2480.6	2434.2
60°	37.3	38.5	44.0	34.8	36.0	64.1	234.6	1051.6	1855.6	2067.0	2150.7
62.5°	36.0	35.5	41.6	28.1	30.5	46.4	165.6	854.8	1429.8	1701.6	1846.5
65°	31.8	31.2	29.9	23.8	26.3	36.0	99.0	557.8	1007.6	1287.4	1366.8
67.5°	24.4	25.7	22.0	18.9	22.0	28.1	55.0	249.9	528.5	772.3	836.5
70°	17.1	18.3	17.7	16.5	19.6	23.3	31.8	85.5	218.8	405.7	447.2
72.5°	10.4	12.8	13.5	14.0	17.1	20.2	22.6	27.5	58.0	143.6	178.4
75°	6.1	8.5	10.4	12.2	14.0	17.1	18.9	19.6	20.2	26.9	43.4
77.5°	4.3	6.1	9.2	11.6	14.0	17.1	20.2	21.4	20.2	18.9	20.2
80°	3.7	6.1	8.5	11.0	14.6	17.7	20.2	20.2	19.6	17.1	18.3
82.5°	3.7	6.1	9.2	11.6	14.0	17.1	19.6	20.2	18.3	17.1	17.7
85°	4.3	6.7	9.8	12.2	15.3	14.0	12.8	10.4	9.8	7.9	8.5
87.5°	4.3	6.1	6.1	6.7	7.4	7.4	7.4	6.7	5.5	4.9	4.9
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°	1561.7	1561.7	1561.7	1561.7	1561.7	1561.7	1561.7	1561.7	1561.7	1561.7
2.5°	1706.5	1755.4	1753.6	1754.8	1747.4	1697.9	1674.1	1613.7	1630.8	1623.4
5°	1771.9	1820.2	1861.7	1856.8	1800.6	1733.4	1633.8	1539.7	1514.1	1476.2
7.5°	1706.5	1822.6	1861.1	1855.6	1772.5	1686.3	1527.5	1433.4	1388.8	1363.8
10°	1602.6	1737.1	1784.7	1794.5	1738.3	1607.6	1461.5	1310.6	1286.8	1243.4
12.5°	1543.4	1641.2	1670.5	1696.8	1677.2	1579.5	1411.4	1266.6	1233.6	1204.9
15°	1495.1	1553.2	1565.4	1595.3	1607.0	1554.4	1437.7	1314.3	1233.0	1229.9
17.5°	1539.7	1515.9	1471.3	1480.4	1517.1	1555.0	1505.5	1408.4	1329.5	1319.7
20°	1613.7	1508.5	1407.8	1430.4	1460.9	1577.0	1608.1	1539.7	1494.5	1469.5
22.5°	1698.6	1521.4	1387.6	1398.6	1456.6	1626.4	1774.4	1736.5	1652.1	1616.1
25°	1855.6	1556.8	1403.4	1410.8	1490.2	1695.5	1924.6	1952.7	1902.7	1895.3
27.5°	2008.9	1648.4	1438.3	1421.8	1507.4	1762.8	2015.7	2166.6	2078.6	2061.5
30°	2087.2	1723.0	1490.2	1462.1	1578.2	1803.6	2070.6	2305.9	2228.9	2221.0
32.5°	2207.0	1790.9	1530.5	1494.5	1617.9	1854.4	2173.3	2458.1	2383.5	2343.8
35°	2257.0	1864.8	1619.2	1577.0	1731.6	1925.2	2225.8	2593.7	2570.5	2532.0
37.5°	2353.5	1944.2	1723.6	1721.2	1869.0	2017.6	2320.6	2778.2	2773.9	2707.3
40°	2361.5	2030.9	1888.6	1965.6	2081.7	2178.2	2403.7	2829.5	2899.2	2854.0
42.5°	2373.7	2183.1	2173.9	2237.5	2337.1	2316.3	2406.7	2841.7	2948.1	2921.2
45°	2379.2	2335.2	2464.2	2581.5	2623.0	2497.1	2378.0	2818.6	2973.8	2906.5
47.5°	2335.2	2466.0	2698.8	2925.4	2937.7	2608.3	2365.8	2794.7	2989.0	2944.4
50°	2341.3	2547.9	2901.6	3104.5	3059.9	2706.8	2346.9	2780.0	2981.0	2951.1
52°	2326.7	2549.7	2930.4	3100.8	3069.7	2652.3	2314.5	2723.8	2973.8	2995.1
52.5°	2343.2	2538.7	2900.4	3103.3	3062.9	2679.3	2310.2	2755.0	2978.0	2934.6
55°	2286.4	2408.0	2725.1	2811.2	2805.1	2431.8	2178.9	2651.7	2866.2	2866.8
57.5°	2066.4	2087.2	2137.3	2135.5	2107.4	1911.9	1863.5	2438.5	2555.2	2491.7
60°	1820.8	1528.1	1393.1	1338.1	1306.9	1275.2	1648.4	2230.8	2241.7	2214.9
62.5°	1573.4	1059.5	879.9	864.6	871.9	988.0	1593.5	2148.2	2082.3	2024.2
65°	1269.6	772.3	639.1	619.0	690.4	815.7	1289.8	1647.3	1545.8	1497.6
67.5°	797.3	563.4	432.0	394.1	480.2	561.5	847.4	1035.0	921.4	854.8
70°	472.9	314.7	195.5	175.4	197.3	299.4	474.7	516.3	427.1	392.9
72.5°	186.4	115.5	54.3	46.4	48.2	105.1	174.8	170.5	128.9	114.9
75°	50.1	34.8	18.9	15.3	12.8	19.6	28.1	18.3	6.7	8.5
77.5°	23.3	20.7	16.5	12.8	9.8	7.4	3.7	1.3	1.3	0.6
80°	20.2	17.7	15.3	12.8	9.8	6.1	3.1	0.6	0.6	0.6
82.5°	18.9	16.5	14.0	11.6	9.2	6.1	3.1	0.6	0.0	0.0
85°	7.9	10.4	11.6	11.0	9.8	6.1	3.1	0.6	0.0	0.0
87.5°	4.3	3.7	3.1	2.4	1.8	1.3	1.3	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

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