

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: P646735

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-835-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4000.3 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

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

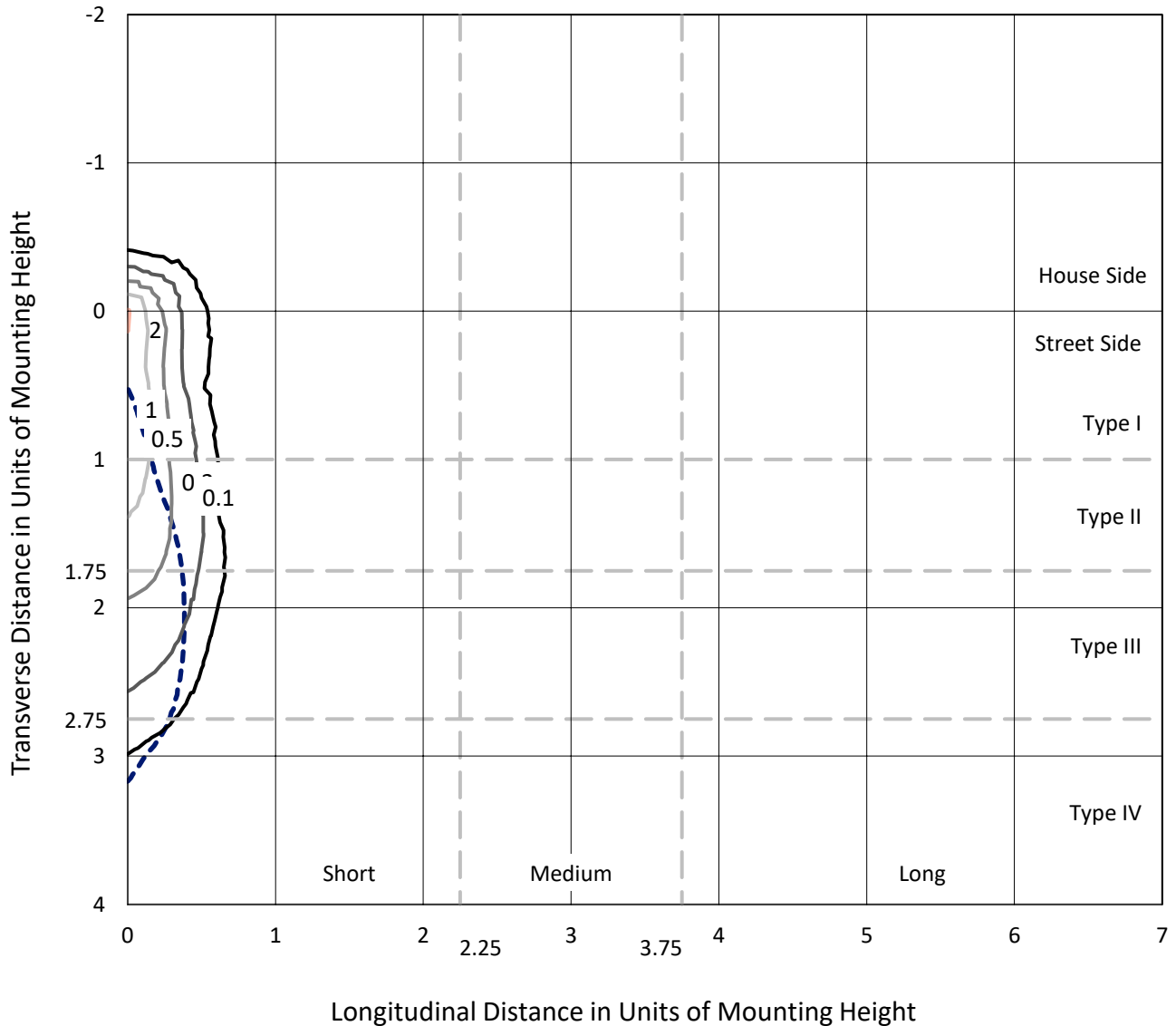




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Iso-Footcandle Lines of Horizontal Illumination

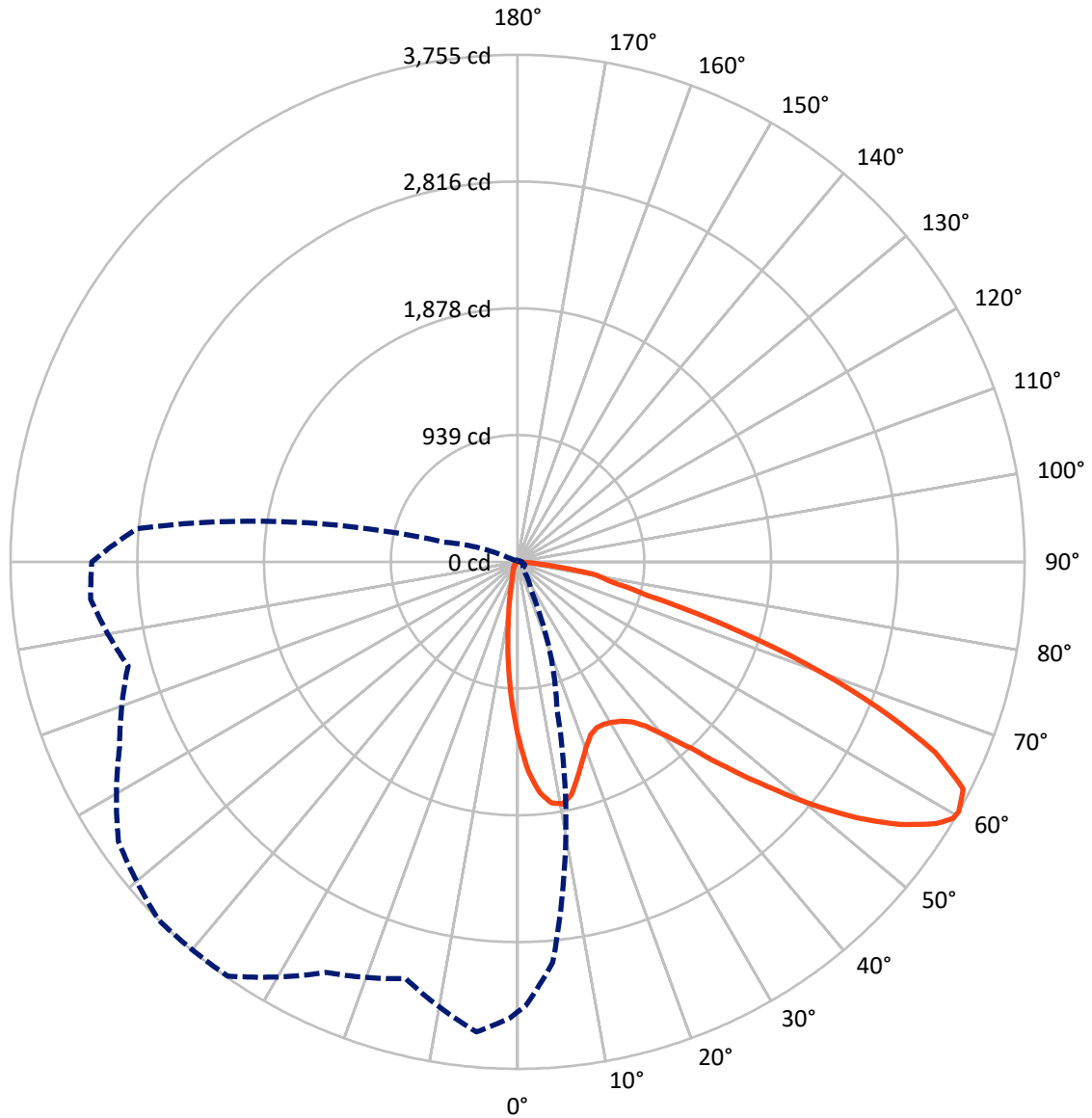
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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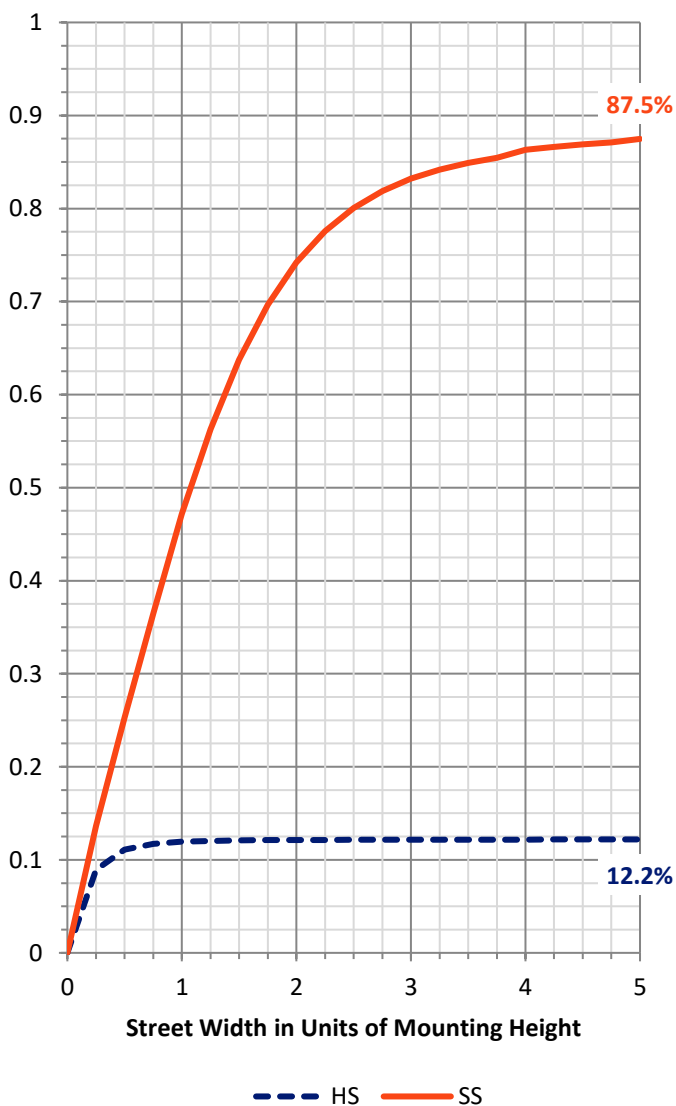
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	493.4	0.0	493.4
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	3506.9	0.0	3506.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	4000.3	0.0	4000.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	2.5
10°-20°	195.3	4.9
20°-30°	286.4	7.2
30°-40°	425.9	10.6
40°-50°	619.8	15.5
50°-60°	893.8	22.3
60°-70°	983.1	24.6
70°-80°	440.3	11.0
80°-90°	57.5	1.4
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°	4000.3	100.0
0°-180°	4000.3	100.0

Coefficient of Utilization



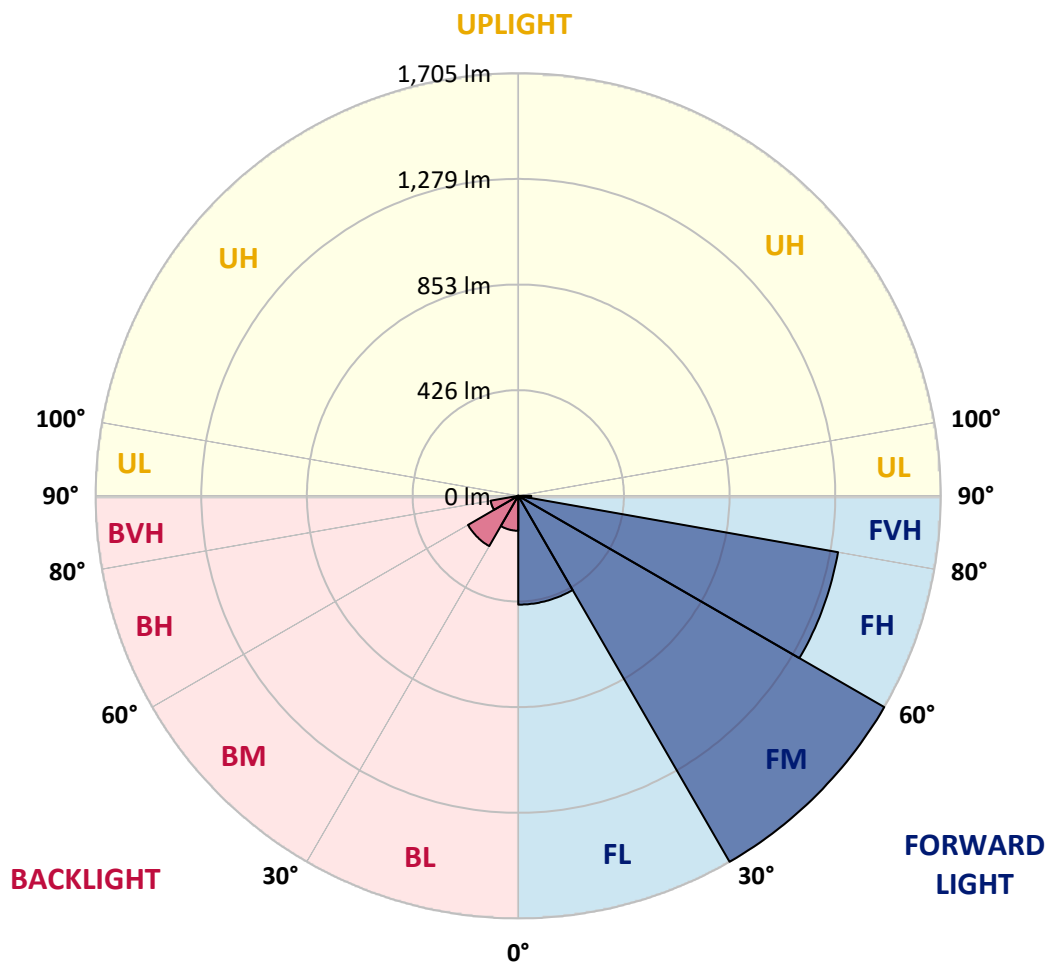
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	439.0	11.0			
FM (30°-60°)	1705.1	42.6			
FH (60°-80°)	1310.2	32.8			G1/1800
FVH (80°-90°)	52.6	1.3			G1/100
BL (0°-30°)	141.0	3.5	B1/500		
BM (30°-60°)	234.4	5.9	B1/1000		
BH (60°-80°)	113.1	2.8	B1/500		G1/500
BVH (80°-90°)	4.9	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1322.2	1322.2	1322.2	1322.2	1322.2	1322.2	1322.2	1322.2	1322.2	1322.2	1322.2
2.5°	1453.6	1447.1	1432.6	1388.2	1349.6	1299.1	1247.9	1207.9	1183.2	1137.9	1117.2
5°	1408.2	1411.3	1369.0	1277.8	1176.2	1106.8	1031.1	970.9	904.7	862.7	818.6
7.5°	1289.9	1283.9	1237.9	1110.8	987.4	887.1	791.2	713.4	664.5	625.2	592.3
10°	1188.7	1184.1	1125.4	961.8	829.3	754.1	689.4	621.2	568.6	511.1	465.3
12.5°	1125.1	1114.8	1047.3	876.4	768.4	698.5	628.0	557.1	484.4	426.3	370.7
15°	1103.9	1088.9	1013.8	846.9	729.5	640.7	552.2	470.7	387.1	322.9	280.9
17.5°	1142.5	1117.8	1037.9	841.7	683.0	565.3	456.4	350.3	263.3	214.4	188.5
20°	1231.0	1202.7	1098.7	836.6	631.3	480.8	346.9	247.5	182.1	155.4	141.1
22.5°	1362.3	1323.4	1188.7	844.8	583.6	398.4	250.6	174.8	144.8	128.0	118.0
25°	1520.1	1487.6	1302.7	874.0	545.8	333.6	193.7	142.9	121.9	111.6	104.0
27.5°	1693.2	1641.2	1450.2	908.9	511.5	283.4	170.0	127.7	108.5	99.1	95.2
30°	1816.3	1775.8	1573.7	933.3	468.6	245.7	155.4	125.9	108.8	97.6	90.3
32.5°	1937.9	1886.2	1677.0	944.5	437.3	219.6	134.4	109.8	95.4	89.7	82.4
35°	2068.1	2014.0	1780.2	938.4	413.9	202.2	121.9	98.0	81.8	72.0	64.8
37.5°	2199.8	2142.6	1882.6	916.5	399.3	195.2	112.2	93.0	77.2	67.2	59.3
40°	2356.0	2279.7	1978.7	898.6	384.1	191.6	105.8	90.0	73.9	63.3	55.4
42.5°	2483.8	2411.1	2069.6	889.2	373.7	183.1	105.8	87.5	71.8	59.9	51.7
45°	2604.8	2529.4	2167.8	896.8	369.5	172.4	107.0	87.3	70.2	57.5	49.3
47.5°	2706.0	2640.7	2268.8	925.3	364.0	160.8	100.6	91.5	69.3	55.4	46.8
50°	2825.6	2762.3	2402.3	983.1	354.2	149.3	92.8	98.5	69.1	53.6	44.7
52.5°	2994.0	2925.6	2586.6	1048.8	338.7	131.7	85.4	97.6	67.8	50.5	42.6
55°	3199.9	3144.6	2800.0	1127.5	317.4	111.9	73.9	86.7	64.1	45.3	38.9
57.5°	3331.9	3284.8	2960.0	1161.6	284.9	91.5	65.1	72.7	58.7	40.5	34.7
59°	3347.4	3304.8	2993.4	1150.4	263.6	83.6	60.8	62.3	57.2	37.7	32.3
60°	3334.3	3290.2	2980.0	1128.5	243.9	78.1	57.2	55.4	57.5	36.2	30.4
62.5°	3250.4	3175.0	2850.2	1017.5	213.1	71.8	50.8	45.3	50.8	32.6	27.1
65°	3088.3	2975.2	2593.3	861.1	201.0	68.1	43.1	38.0	38.6	28.6	23.4
67.5°	2805.2	2662.6	2251.1	699.7	195.8	68.4	36.5	34.1	29.8	24.4	20.7
70°	2357.6	2215.3	1806.3	575.7	193.4	68.4	31.0	29.2	24.9	20.4	17.9
72.5°	1670.7	1517.4	1218.5	452.2	174.2	68.1	26.5	26.5	20.4	17.0	14.6
75°	943.9	945.1	766.0	319.9	144.8	56.2	21.3	21.0	14.9	13.1	11.0
77.5°	550.1	540.3	516.3	137.4	67.2	25.5	14.9	12.8	10.3	9.4	7.9
80°	282.8	232.6	226.5	49.9	24.0	16.1	10.3	7.3	6.7	6.1	5.5
82.5°	83.6	83.9	74.8	20.0	13.4	10.6	5.2	3.9	3.7	3.4	3.4
85°	5.8	3.7	4.2	6.1	8.2	4.2	0.3	0.9	0.9	1.3	1.5
87.5°	0.6	0.3	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°	1322.2	1322.2	1322.2	1322.2	1322.2	1322.2	1322.2	1322.2	1322.2	1322.2	1322.2
2.5°	1094.4	1107.8	1082.9	1083.4	1062.8	1069.5	1045.1	1053.1	1038.7	1049.7	1081.9
5°	823.5	826.5	806.4	800.1	803.1	815.6	820.4	798.2	807.7	789.1	787.9
7.5°	580.2	583.9	572.3	570.8	592.7	587.5	597.0	574.1	552.6	562.0	544.7
10°	450.7	435.4	411.7	405.0	400.8	403.6	403.6	382.8	379.8	371.6	384.1
12.5°	355.8	337.2	314.8	284.3	276.7	276.1	264.9	246.6	240.9	233.9	244.2
15°	258.5	250.9	232.0	215.0	197.6	194.3	176.1	161.1	141.4	138.7	137.7
17.5°	181.8	170.6	170.3	160.6	150.5	143.8	126.8	109.8	102.2	101.2	101.2
20°	136.2	132.2	125.9	124.7	121.6	114.0	98.8	89.7	86.1	86.4	87.5
22.5°	114.6	111.9	106.1	103.4	102.2	95.4	84.3	78.1	76.3	76.3	76.7
25°	102.5	100.1	93.6	89.4	87.9	83.0	74.2	69.6	68.1	68.1	68.1
27.5°	93.3	90.3	83.6	79.9	77.2	71.8	66.3	61.7	60.2	60.2	60.5
30°	87.0	83.6	77.5	72.7	68.4	63.6	59.0	55.0	53.2	52.9	53.2
32.5°	78.5	75.4	69.3	66.3	61.4	55.7	52.0	48.3	46.5	46.8	46.5
35°	61.2	60.2	56.0	56.8	54.1	49.3	45.9	42.0	39.9	39.5	40.2
37.5°	55.7	52.0	47.1	47.4	46.5	44.7	39.2	35.0	33.4	33.4	33.7
40°	51.4	47.8	42.3	39.5	39.9	39.9	34.1	29.5	28.0	27.6	28.3
42.5°	47.8	44.1	38.0	33.4	32.3	33.7	28.9	24.4	22.8	22.2	22.8
45°	45.3	41.3	34.4	29.2	25.5	27.4	23.7	20.0	18.2	18.2	17.9
47.5°	42.9	39.2	31.6	25.2	21.3	20.4	19.5	16.1	14.3	14.0	14.3
50°	40.7	37.1	28.6	21.9	17.9	15.8	15.8	12.8	11.6	11.0	11.3
52.5°	38.6	34.7	25.8	19.5	15.5	12.8	11.3	10.3	9.4	9.2	9.4
55°	35.5	31.6	23.1	16.8	13.4	10.6	8.8	8.5	7.9	7.3	7.9
57.5°	31.9	28.3	20.4	14.3	10.6	8.2	7.3	7.0	6.4	6.1	6.1
59°	29.8	26.5	18.9	12.4	9.4	7.3	6.7	6.4	5.8	5.2	5.5
60°	28.6	25.8	17.9	11.6	8.5	6.7	6.1	5.8	5.2	4.9	5.2
62.5°	25.2	23.1	15.8	9.4	6.7	4.9	4.2	4.5	4.2	3.9	4.2
65°	22.2	20.4	13.4	7.3	5.2	3.4	3.1	3.9	3.7	3.4	3.7
67.5°	19.7	17.6	11.3	5.5	3.7	1.8	2.1	3.4	3.4	3.1	3.4
70°	17.0	15.2	9.2	3.9	1.8	0.9	1.5	2.4	3.1	2.7	3.1
72.5°	14.0	11.8	7.0	2.7	0.9	0.0	0.9	2.1	3.1	2.7	3.1
75°	11.0	8.8	5.2	1.5	0.0	0.0	0.3	1.8	3.1	2.7	3.1
77.5°	7.9	6.4	3.1	0.3	0.0	0.0	0.3	1.8	3.1	2.7	3.1
80°	5.2	4.5	1.3	0.0	0.0	0.0	0.3	1.8	3.1	3.1	3.4
82.5°	3.4	2.4	0.0	0.0	0.0	0.0	0.6	2.4	3.4	3.7	3.7
85°	1.5	0.0	0.0	0.0	0.0	0.0	1.3	3.1	3.9	3.9	3.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.6	2.1	3.7	4.5	4.5	4.5
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°	1322.2	1322.2	1322.2	1322.2	1322.2	1322.2	1322.2	1322.2	1322.2	1322.2	1322.2
2.5°	1087.4	1106.5	1133.6	1175.3	1209.0	1262.3	1303.0	1358.7	1414.9	1432.0	1458.4
5°	800.4	825.0	886.4	942.3	977.7	1090.2	1161.3	1273.5	1374.2	1422.6	1475.1
7.5°	555.9	585.1	631.9	710.0	784.3	875.8	990.7	1119.1	1266.5	1335.6	1409.7
10°	390.2	426.7	492.6	556.8	650.1	737.1	850.5	992.2	1154.9	1236.4	1329.5
12.5°	246.3	278.8	366.1	438.2	554.7	655.6	760.2	888.5	1077.1	1160.7	1258.3
15°	140.8	168.2	208.9	301.4	430.6	564.1	694.5	843.5	1037.2	1140.4	1245.8
17.5°	104.9	112.2	130.4	182.8	300.4	456.4	634.0	829.8	1064.3	1185.3	1305.7
20°	88.2	93.0	101.6	122.2	191.6	351.5	575.0	832.3	1151.9	1303.9	1418.2
22.5°	79.1	82.1	89.1	102.5	130.8	256.0	506.0	846.6	1258.0	1449.6	1581.6
25°	69.3	73.3	79.4	90.9	108.8	177.6	437.9	878.5	1406.7	1634.4	1758.5
27.5°	61.7	65.4	71.5	82.1	95.4	135.6	358.5	905.9	1563.7	1820.6	1922.1
30°	54.1	57.8	63.9	72.3	84.6	109.8	273.0	922.0	1715.9	1960.2	2038.3
32.5°	47.8	50.8	56.5	64.1	74.2	93.0	215.3	905.3	1832.5	2086.9	2139.2
35°	41.3	45.0	49.9	56.8	65.7	79.4	179.1	847.5	1932.4	2217.4	2236.2
37.5°	34.7	38.9	44.1	50.5	57.5	73.0	143.8	783.6	2039.5	2380.1	2349.1
40°	29.2	33.1	38.0	45.0	51.4	66.9	110.7	715.5	2155.1	2532.8	2472.2
42.5°	23.7	28.0	33.7	40.2	50.8	58.4	85.7	645.0	2258.8	2665.6	2583.5
45°	18.9	22.5	28.6	36.8	50.5	50.2	66.3	575.3	2336.9	2760.5	2666.5
47.5°	14.9	17.9	24.0	35.9	46.5	42.6	53.2	532.1	2419.0	2846.0	2730.1
50°	11.8	14.9	20.7	37.4	40.7	36.5	44.7	539.2	2498.4	2889.4	2756.2
52.5°	10.0	13.1	17.9	29.5	31.3	31.9	39.2	571.4	2600.9	2935.9	2808.2
55°	8.8	11.6	15.2	20.7	24.4	28.6	35.9	594.8	2738.0	3035.7	2922.9
57.5°	7.0	10.0	13.7	17.6	20.0	24.9	33.1	596.6	2862.1	3163.7	3075.2
59°	6.4	9.2	12.8	16.8	17.9	22.5	31.3	581.1	2866.6	3182.9	3145.2
60°	5.8	8.8	12.1	15.5	17.0	21.3	29.8	563.1	2825.3	3152.4	3174.0
62.5°	4.9	7.6	10.6	12.4	14.6	17.6	25.8	498.1	2624.9	3014.7	3120.6
65°	4.2	6.7	9.2	10.3	12.1	15.2	22.8	398.6	2403.5	2828.0	2967.3
67.5°	3.9	6.1	7.9	8.8	10.6	14.0	20.4	281.6	2116.8	2591.1	2737.1
70°	3.7	5.8	7.0	8.2	9.4	11.8	17.3	164.2	1630.5	2175.7	2329.9
72.5°	3.7	5.5	6.1	7.0	8.2	10.6	16.1	88.8	1114.8	1659.7	1858.9
75°	3.7	5.2	5.5	6.1	7.3	9.7	14.3	46.5	720.7	1153.1	1423.1
77.5°	3.7	4.9	5.5	5.8	7.0	8.5	12.4	29.2	480.1	807.7	961.8
80°	3.9	4.9	5.2	5.8	6.7	7.9	10.3	19.5	282.2	485.9	585.4
82.5°	4.2	4.9	5.5	6.1	7.0	7.6	9.2	12.1	130.1	321.4	363.7
85°	4.5	5.2	5.8	6.4	7.3	7.6	8.5	8.8	21.3	145.0	196.1
87.5°	4.9	5.5	6.1	6.7	7.9	7.9	7.9	7.9	7.3	15.5	39.5
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°	1322.2	1322.2	1322.2	1322.2	1322.2	1322.2	1322.2	1322.2	1322.2	1322.2
2.5°	1491.8	1526.2	1550.3	1556.3	1539.0	1531.1	1509.2	1475.1	1454.4	1453.6
5°	1572.1	1652.7	1708.7	1718.1	1684.6	1628.1	1560.9	1474.2	1423.4	1408.2
7.5°	1558.5	1699.6	1789.5	1802.6	1746.4	1638.4	1508.3	1368.7	1313.3	1289.9
10°	1502.2	1674.3	1802.9	1823.6	1748.5	1596.5	1431.0	1275.4	1206.6	1188.7
12.5°	1454.1	1628.1	1742.4	1771.0	1714.1	1562.4	1384.8	1215.5	1141.8	1125.1
15°	1433.1	1573.4	1643.3	1657.8	1648.4	1541.1	1380.0	1206.3	1122.1	1103.9
17.5°	1454.1	1526.9	1535.6	1550.6	1571.6	1539.0	1426.8	1255.9	1164.9	1142.5
20°	1509.2	1486.4	1449.9	1456.3	1504.3	1547.8	1510.1	1365.6	1255.0	1231.0
22.5°	1602.9	1476.3	1393.7	1388.2	1448.9	1577.3	1632.3	1514.3	1386.1	1362.3
25°	1717.8	1501.6	1373.0	1361.1	1427.4	1620.5	1765.2	1696.5	1556.3	1520.1
27.5°	1843.1	1553.9	1373.0	1361.4	1425.5	1658.8	1879.0	1857.7	1732.7	1693.2
30°	1911.8	1597.1	1392.7	1379.6	1448.1	1681.0	1939.8	2000.9	1865.3	1816.3
32.5°	1973.2	1657.0	1431.3	1406.7	1495.2	1713.8	1994.2	2122.6	1970.8	1937.9
35°	2029.8	1721.1	1484.6	1456.0	1557.2	1758.9	2054.4	2250.3	2117.7	2068.1
37.5°	2092.1	1795.7	1567.6	1543.2	1660.9	1846.4	2125.8	2418.1	2262.1	2199.8
40°	2159.9	1882.0	1704.1	1693.8	1825.7	1945.5	2216.2	2597.2	2426.9	2356.0
42.5°	2229.0	1981.5	1871.4	1888.4	2012.5	2084.5	2308.9	2734.9	2561.9	2483.8
45°	2291.6	2108.5	2088.8	2173.0	2230.1	2220.1	2377.7	2832.0	2679.6	2604.8
47.5°	2370.7	2293.7	2351.8	2481.6	2483.2	2367.6	2429.6	2911.4	2780.9	2706.0
50°	2459.2	2512.3	2691.5	2823.7	2788.2	2512.6	2490.5	3005.3	2885.5	2825.6
52.5°	2561.7	2757.2	3005.3	3152.2	3069.1	2670.8	2591.7	3106.9	3051.5	2994.0
55°	2680.8	2924.1	3318.2	3435.3	3351.6	2867.3	2745.6	3244.6	3239.1	3199.9
57.5°	2815.5	3100.4	3499.5	3657.9	3583.4	3097.7	2960.6	3374.5	3353.7	3331.9
59°	2922.0	3191.1	3579.4	3743.6	3698.6	3259.2	3105.1	3455.4	3380.2	3347.4
60°	2986.4	3252.5	3608.9	3755.2	3744.9	3355.3	3196.6	3494.8	3379.9	3334.3
62.5°	3177.7	3359.9	3597.7	3703.7	3744.2	3539.6	3465.1	3538.4	3317.3	3250.4
65°	3245.8	3324.3	3411.2	3398.1	3432.8	3530.2	3636.6	3490.6	3183.5	3088.3
67.5°	3113.2	2934.1	2964.8	2877.6	2860.5	3138.5	3567.0	3257.0	2921.7	2805.2
70°	2624.3	2247.8	2232.3	2272.4	2162.3	2541.0	3202.9	2807.4	2489.5	2357.6
72.5°	2065.6	1588.6	1457.8	1605.6	1602.3	1938.6	2660.8	1992.1	1681.9	1670.7
75°	1624.4	1106.0	970.7	994.6	1040.9	1403.4	2119.2	1265.0	1035.8	943.9
77.5°	1090.5	783.6	731.0	701.6	751.4	901.0	1340.7	686.0	580.8	550.1
80°	628.5	569.2	646.5	586.9	613.6	567.8	666.9	314.8	261.2	282.8
82.5°	409.0	324.2	345.5	256.7	350.9	354.0	214.1	93.0	78.8	83.6
85°	255.7	152.1	85.4	60.8	121.1	222.6	66.9	5.8	6.7	5.8
87.5°	66.3	25.2	10.6	15.8	19.5	17.3	15.5	0.9	0.3	0.6
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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