

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: P651685

Luminaire Tested: **GALN-SA1A-840-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651685
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-SA1A-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA 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: 2794.6 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

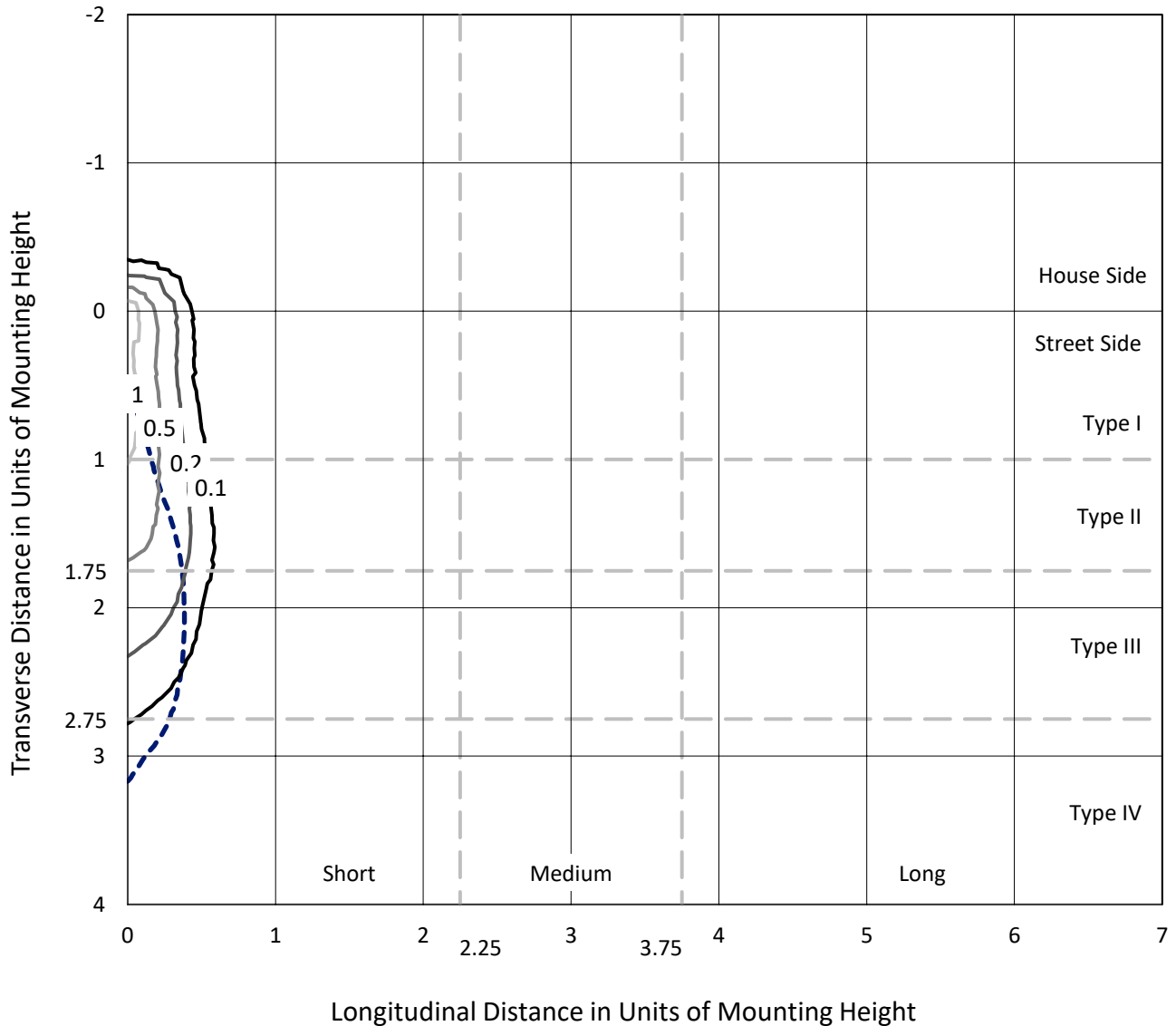
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

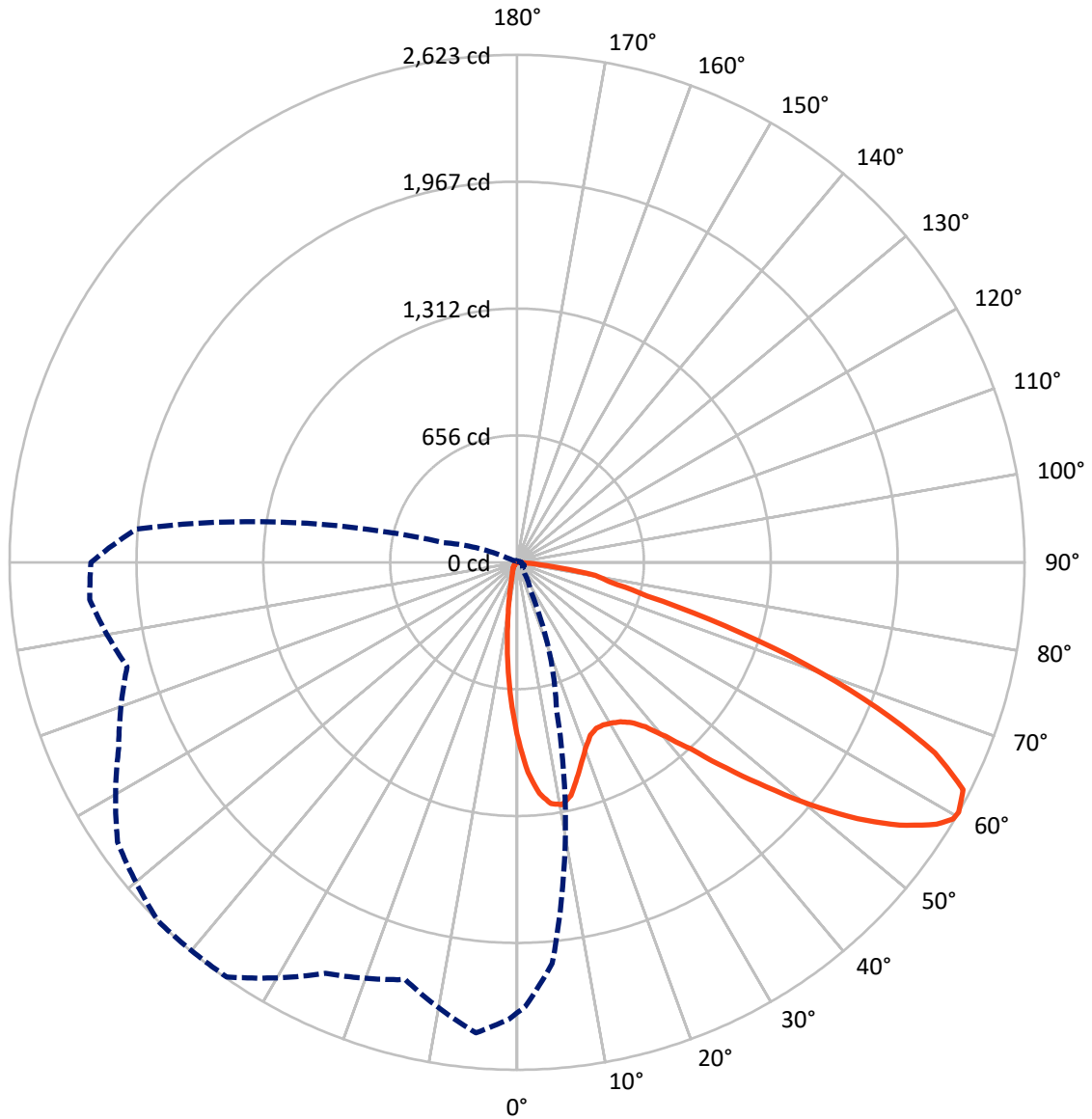
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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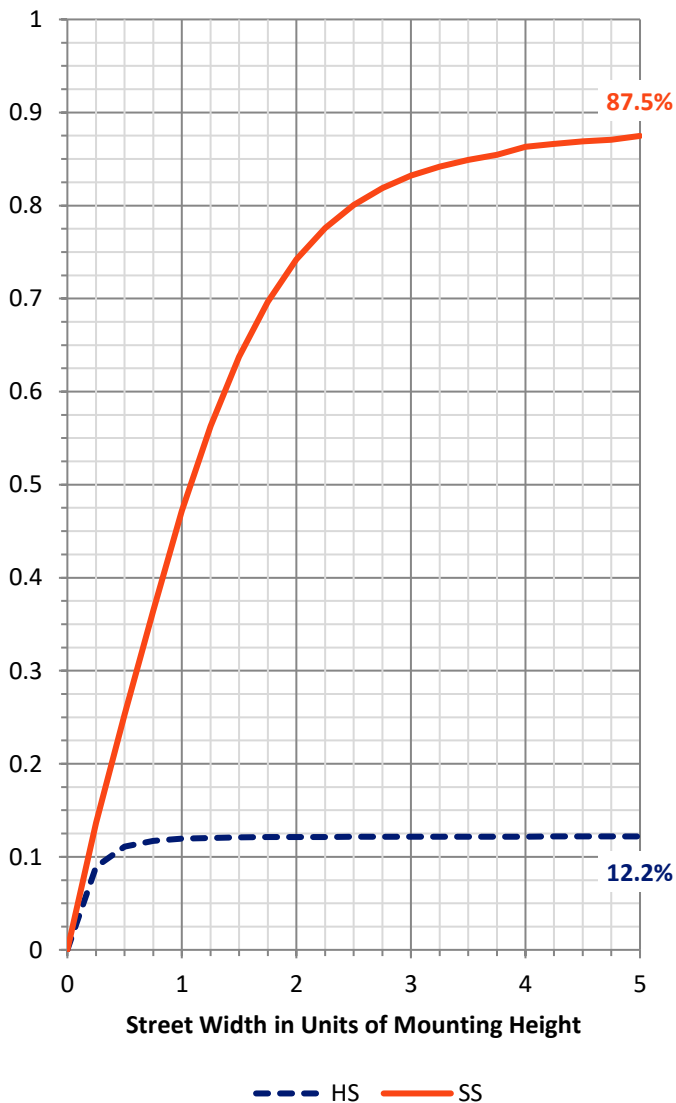
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	344.7	0.0	344.7
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	2450.0	0.0	2450.0
	% Fixture	87.7	0.0	87.7
Total	Lumens	2794.6	0.0	2794.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	2.5
10°-20°	136.4	4.9
20°-30°	200.1	7.2
30°-40°	297.5	10.6
40°-50°	433.0	15.5
50°-60°	624.4	22.3
60°-70°	686.8	24.6
70°-80°	307.6	11.0
80°-90°	40.2	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°	2794.6	100.0
0°-180°	2794.6	100.0

Coefficient of Utilization



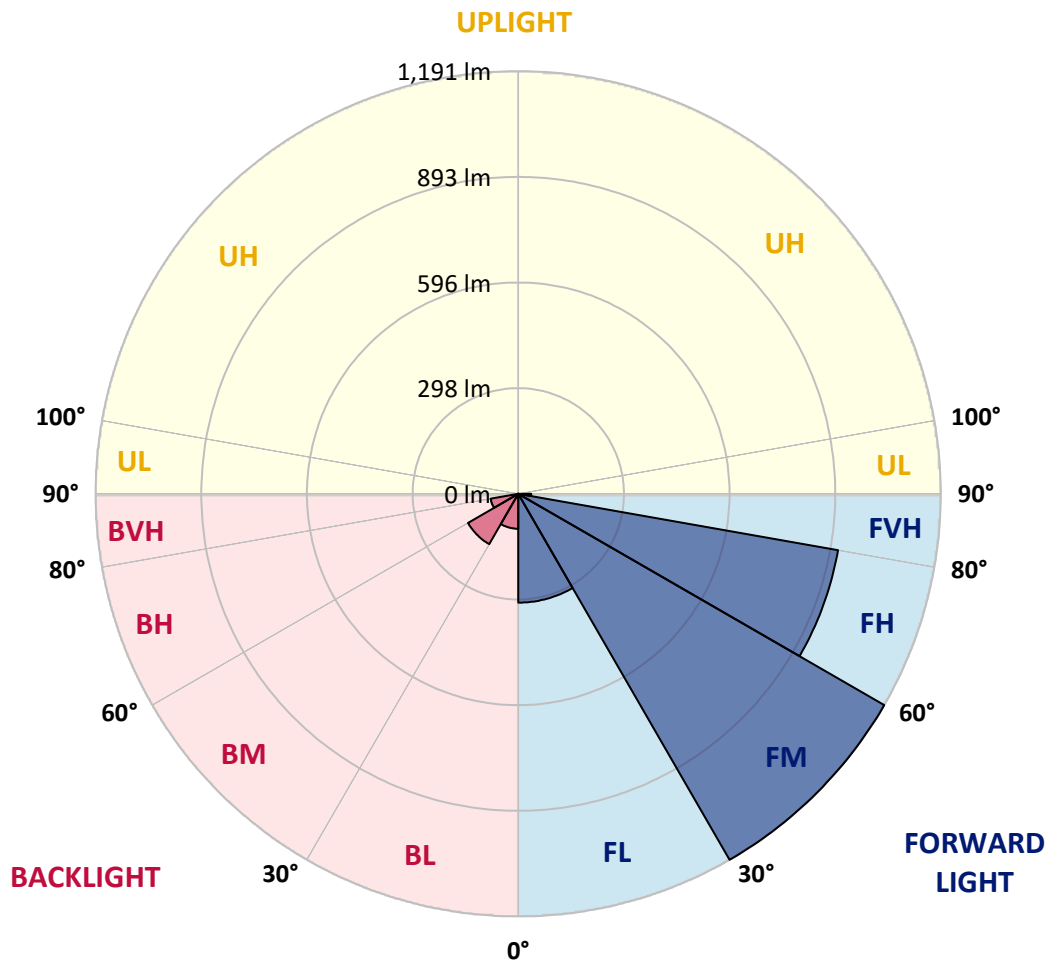
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	306.7	11.0			
FM (30°-60°)	1191.2	42.6			
FH (60°-80°)	915.3	32.8			G1/1800
FVH (80°-90°)	36.8	1.3			G1/100
BL (0°-30°)	98.5	3.5	B0/110		
BM (30°-60°)	163.7	5.9	B0/220		
BH (60°-80°)	79.0	2.8	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: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7
2.5°	1015.4	1011.0	1000.8	969.8	942.8	907.5	871.9	843.8	826.6	794.9	780.4
5°	983.8	985.9	956.4	892.6	821.7	773.3	720.4	678.3	632.0	602.7	571.9
7.5°	901.1	896.9	864.8	776.0	689.8	619.6	552.8	498.4	464.1	436.7	413.9
10°	830.4	827.2	786.3	672.0	579.3	526.8	481.6	434.0	397.3	357.1	325.0
12.5°	786.0	778.8	731.6	612.2	536.8	487.9	438.7	389.2	338.4	297.8	258.9
15°	771.1	760.8	708.3	591.6	509.6	447.6	385.8	328.8	270.5	225.6	196.3
17.5°	798.1	781.0	725.0	588.0	477.1	394.9	318.9	244.7	184.0	149.8	131.7
20°	859.9	840.2	767.5	584.4	441.0	335.9	242.4	172.9	127.2	108.6	98.6
22.5°	951.7	924.5	830.4	590.1	407.6	278.3	175.0	122.1	101.1	89.4	82.4
25°	1061.9	1039.2	910.0	610.6	381.3	233.0	135.3	99.8	85.2	78.0	72.7
27.5°	1182.9	1146.5	1013.1	635.0	357.3	198.0	118.7	89.2	75.9	69.2	66.5
30°	1268.9	1240.6	1099.4	651.9	327.4	171.6	108.6	88.0	76.0	68.2	63.1
32.5°	1353.8	1317.8	1171.6	659.8	305.5	153.4	93.9	76.7	66.7	62.7	57.6
35°	1444.8	1407.0	1243.6	655.6	289.1	141.3	85.2	68.4	57.1	50.4	45.2
37.5°	1536.8	1496.8	1315.2	640.3	279.0	136.4	78.4	65.0	54.0	46.9	41.5
40°	1645.9	1592.6	1382.4	627.7	268.3	133.8	73.9	62.9	51.6	44.2	38.7
42.5°	1735.2	1684.4	1445.8	621.2	261.0	127.9	73.9	61.1	50.1	41.9	36.1
45°	1819.8	1767.0	1514.5	626.5	258.1	120.4	74.8	61.0	49.1	40.1	34.4
47.5°	1890.5	1844.8	1584.9	646.5	254.3	112.4	70.3	63.9	48.4	38.7	32.7
50°	1973.9	1929.8	1678.2	686.8	247.5	104.3	64.8	68.8	48.2	37.4	31.2
52.5°	2091.7	2043.9	1807.0	732.7	236.7	92.0	59.7	68.2	47.3	35.2	29.8
55°	2235.5	2196.8	1956.1	787.7	221.8	78.2	51.6	60.6	44.8	31.6	27.2
57.5°	2327.6	2294.8	2067.9	811.5	199.1	63.9	45.5	50.8	41.0	28.3	24.2
59°	2338.5	2308.7	2091.2	803.7	184.2	58.4	42.5	43.6	39.9	26.3	22.5
60°	2329.3	2298.5	2081.9	788.4	170.4	54.6	39.9	38.7	40.1	25.3	21.3
62.5°	2270.7	2218.1	1991.2	710.8	148.9	50.1	35.5	31.6	35.5	22.7	18.9
65°	2157.5	2078.4	1811.7	601.7	140.4	47.6	30.2	26.6	27.0	19.9	16.4
67.5°	1959.7	1860.1	1572.7	488.8	136.8	47.8	25.5	23.8	20.9	17.0	14.5
70°	1647.0	1547.6	1261.8	402.2	135.1	47.8	21.7	20.4	17.4	14.2	12.5
72.5°	1167.1	1060.1	851.3	315.9	121.7	47.6	18.5	18.5	14.2	11.9	10.2
75°	659.4	660.3	535.1	223.5	101.1	39.3	14.9	14.6	10.4	9.2	7.7
77.5°	384.3	377.5	360.7	96.0	46.9	17.8	10.4	8.9	7.2	6.6	5.6
80°	197.6	162.5	158.3	34.8	16.8	11.3	7.2	5.1	4.7	4.3	3.8
82.5°	58.4	58.6	52.2	14.0	9.3	7.4	3.6	2.8	2.5	2.4	2.4
85°	4.0	2.5	2.9	4.3	5.7	2.9	0.3	0.7	0.7	0.8	1.1
87.5°	0.4	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°	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7
2.5°	764.6	773.9	756.5	756.9	742.4	747.1	730.2	735.6	725.7	733.4	755.8
5°	575.2	577.4	563.4	558.9	561.0	569.8	573.1	557.7	564.2	551.3	550.4
7.5°	405.4	407.9	399.8	398.7	414.0	410.4	417.1	401.1	386.0	392.6	380.5
10°	314.9	304.2	287.6	283.0	280.0	281.9	281.9	267.4	265.3	259.6	268.3
12.5°	248.5	235.6	219.8	198.6	193.3	192.9	185.0	172.3	168.3	163.3	170.6
15°	180.6	175.3	162.1	150.2	138.1	135.7	123.0	112.6	98.8	96.9	96.2
17.5°	127.1	119.2	119.0	112.2	105.1	100.5	88.6	76.7	71.4	70.7	70.7
20°	95.2	92.4	88.0	87.1	84.9	79.6	69.0	62.7	60.1	60.3	61.1
22.5°	80.1	78.2	74.2	72.2	71.4	66.7	58.9	54.6	53.3	53.3	53.6
25°	71.6	69.9	65.4	62.5	61.4	58.0	51.8	48.6	47.6	47.6	47.6
27.5°	65.2	63.1	58.4	55.8	54.0	50.1	46.3	43.1	42.0	42.0	42.3
30°	60.7	58.4	54.2	50.8	47.8	44.4	41.2	38.4	37.2	37.0	37.2
32.5°	54.8	52.6	48.4	46.3	42.9	38.9	36.3	33.8	32.5	32.7	32.5
35°	42.7	42.0	39.1	39.7	37.8	34.4	32.0	29.4	27.8	27.6	28.0
37.5°	38.9	36.3	33.0	33.1	32.5	31.2	27.4	24.4	23.4	23.4	23.5
40°	35.9	33.4	29.5	27.6	27.8	27.8	23.8	20.6	19.5	19.3	19.8
42.5°	33.4	30.8	26.6	23.4	22.5	23.5	20.2	17.0	15.9	15.5	15.9
45°	31.6	28.9	24.0	20.4	17.8	19.1	16.6	14.0	12.8	12.8	12.5
47.5°	29.9	27.4	22.1	17.7	14.9	14.2	13.6	11.3	10.0	9.8	10.0
50°	28.4	25.9	19.9	15.3	12.5	11.0	11.0	8.9	8.1	7.7	7.8
52.5°	27.0	24.2	18.1	13.6	10.8	8.9	7.8	7.2	6.6	6.4	6.6
55°	24.9	22.1	16.1	11.7	9.3	7.4	6.1	6.0	5.6	5.1	5.6
57.5°	22.3	19.8	14.2	10.0	7.4	5.7	5.1	4.9	4.5	4.3	4.3
59°	20.9	18.5	13.2	8.7	6.6	5.1	4.7	4.5	4.0	3.6	3.8
60°	19.9	18.1	12.5	8.1	6.0	4.7	4.3	4.0	3.6	3.4	3.6
62.5°	17.7	16.1	11.0	6.6	4.7	3.4	2.9	3.2	2.9	2.8	2.9
65°	15.5	14.2	9.3	5.1	3.6	2.4	2.1	2.8	2.5	2.4	2.5
67.5°	13.8	12.4	7.8	3.8	2.5	1.3	1.5	2.4	2.4	2.1	2.4
70°	11.9	10.6	6.4	2.8	1.3	0.7	1.1	1.7	2.1	1.9	2.1
72.5°	9.8	8.3	4.9	1.9	0.7	0.0	0.7	1.5	2.1	1.9	2.1
75°	7.7	6.1	3.6	1.1	0.0	0.0	0.3	1.3	2.1	1.9	2.1
77.5°	5.6	4.5	2.1	0.3	0.0	0.0	0.3	1.3	2.1	1.9	2.1
80°	3.6	3.2	0.8	0.0	0.0	0.0	0.3	1.3	2.1	2.1	2.4
82.5°	2.4	1.7	0.0	0.0	0.0	0.0	0.4	1.7	2.4	2.5	2.5
85°	1.1	0.0	0.0	0.0	0.0	0.0	0.8	2.1	2.8	2.8	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.4	1.5	2.5	3.2	3.2	3.2
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7
2.5°	759.7	773.0	792.0	821.1	844.6	881.8	910.3	949.2	988.4	1000.4	1018.9
5°	559.1	576.3	619.2	658.3	683.0	761.6	811.3	889.7	960.0	993.8	1030.6
7.5°	388.4	408.7	441.4	496.0	547.9	611.8	692.1	781.8	884.8	933.0	984.8
10°	272.6	298.1	344.1	389.0	454.2	514.9	594.2	693.2	806.9	863.8	928.8
12.5°	172.1	194.8	255.7	306.1	387.4	458.0	531.1	620.7	752.4	810.9	879.1
15°	98.4	117.5	145.9	210.5	300.8	394.1	485.2	589.3	724.6	796.6	870.4
17.5°	73.3	78.4	91.2	127.7	209.9	318.9	443.0	579.7	743.5	828.0	912.2
20°	61.6	65.0	71.0	85.4	133.8	245.6	401.7	581.5	804.7	910.9	990.8
22.5°	55.3	57.4	62.2	71.6	91.3	178.9	353.5	591.4	878.8	1012.6	1104.9
25°	48.4	51.2	55.4	63.5	76.0	124.0	305.9	613.8	982.7	1141.8	1228.5
27.5°	43.1	45.7	50.0	57.4	66.7	94.8	250.4	632.9	1092.4	1271.8	1342.8
30°	37.8	40.4	44.6	50.5	59.0	76.7	190.7	644.1	1198.8	1369.4	1424.0
32.5°	33.4	35.5	39.5	44.8	51.8	65.0	150.4	632.4	1280.2	1458.0	1494.5
35°	28.9	31.5	34.8	39.7	45.9	55.4	125.1	592.1	1350.1	1549.0	1562.2
37.5°	24.2	27.2	30.8	35.2	40.1	51.0	100.5	547.4	1424.8	1662.7	1641.0
40°	20.4	23.1	26.6	31.5	35.9	46.8	77.3	499.9	1505.6	1769.4	1727.1
42.5°	16.6	19.5	23.5	28.0	35.5	40.8	59.9	450.6	1578.0	1862.2	1804.9
45°	13.2	15.7	19.9	25.7	35.2	35.1	46.3	401.9	1632.5	1928.5	1862.8
47.5°	10.4	12.5	16.8	25.1	32.5	29.8	37.2	371.7	1689.9	1988.2	1907.2
50°	8.3	10.4	14.5	26.2	28.4	25.5	31.2	376.7	1745.4	2018.6	1925.6
52.5°	7.0	9.2	12.5	20.6	21.9	22.3	27.4	399.1	1817.0	2051.0	1961.8
55°	6.1	8.1	10.6	14.5	17.0	19.9	25.1	415.5	1912.8	2120.7	2041.9
57.5°	4.9	7.0	9.6	12.4	14.0	17.4	23.1	416.8	1999.5	2210.1	2148.3
59°	4.5	6.4	8.9	11.7	12.5	15.7	21.9	406.0	2002.6	2223.6	2197.2
60°	4.0	6.1	8.5	10.8	11.9	14.9	20.9	393.4	1973.7	2202.3	2217.4
62.5°	3.4	5.3	7.4	8.7	10.2	12.4	18.1	348.0	1833.7	2106.1	2180.0
65°	2.9	4.7	6.4	7.2	8.5	10.6	15.9	278.5	1679.1	1975.7	2073.0
67.5°	2.8	4.3	5.6	6.1	7.4	9.8	14.2	196.7	1478.7	1810.2	1912.1
70°	2.5	4.0	4.9	5.7	6.6	8.3	12.1	114.7	1139.1	1519.9	1627.7
72.5°	2.5	3.8	4.3	4.9	5.7	7.4	11.3	62.1	778.8	1159.5	1298.6
75°	2.5	3.6	3.8	4.3	5.1	6.8	10.0	32.5	503.5	805.6	994.2
77.5°	2.5	3.4	3.8	4.0	4.9	6.0	8.7	20.4	335.5	564.2	672.0
80°	2.8	3.4	3.6	4.0	4.7	5.6	7.2	13.6	197.1	339.5	409.0
82.5°	2.9	3.4	3.8	4.3	4.9	5.3	6.4	8.5	90.9	224.5	254.1
85°	3.2	3.6	4.0	4.5	5.1	5.3	6.0	6.1	14.9	101.3	137.0
87.5°	3.4	3.8	4.3	4.7	5.6	5.6	5.6	5.6	5.1	10.8	27.6
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°	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7	923.7
2.5°	1042.2	1066.2	1083.0	1087.2	1075.1	1069.6	1054.3	1030.6	1016.1	1015.4
5°	1098.3	1154.6	1193.7	1200.3	1176.9	1137.4	1090.4	1029.9	994.4	983.8
7.5°	1088.8	1187.3	1250.1	1259.3	1220.0	1144.6	1053.7	956.1	917.5	901.1
10°	1049.4	1169.7	1259.6	1273.9	1221.5	1115.3	999.7	891.0	842.9	830.4
12.5°	1015.8	1137.4	1217.3	1237.2	1197.5	1091.5	967.4	849.1	797.7	786.0
15°	1001.2	1099.1	1148.0	1158.2	1151.6	1076.6	964.0	842.8	783.9	771.1
17.5°	1015.8	1066.6	1072.8	1083.2	1097.8	1075.1	996.8	877.3	813.8	798.1
20°	1054.3	1038.4	1012.9	1017.4	1050.9	1081.3	1055.0	954.0	876.7	859.9
22.5°	1119.7	1031.4	973.6	969.8	1012.2	1101.9	1140.3	1057.9	968.2	951.7
25°	1200.0	1049.0	959.2	950.8	997.2	1132.1	1233.2	1185.1	1087.2	1061.9
27.5°	1287.6	1085.6	959.2	951.1	995.9	1158.8	1312.6	1297.7	1210.5	1182.9
30°	1335.6	1115.7	973.0	963.8	1011.6	1174.4	1355.1	1397.8	1303.0	1268.9
32.5°	1378.5	1157.6	999.9	982.7	1044.5	1197.2	1393.1	1482.8	1376.8	1353.8
35°	1418.0	1202.4	1037.1	1017.1	1087.9	1228.7	1435.3	1572.0	1479.4	1444.8
37.5°	1461.6	1254.4	1095.1	1078.1	1160.3	1289.9	1485.1	1689.3	1580.3	1536.8
40°	1508.9	1314.7	1190.5	1183.3	1275.5	1359.1	1548.2	1814.4	1695.5	1645.9
42.5°	1557.1	1384.2	1307.3	1319.2	1405.9	1456.3	1613.0	1910.7	1789.7	1735.2
45°	1600.9	1473.0	1459.2	1518.1	1558.0	1551.0	1661.1	1978.5	1872.0	1819.8
47.5°	1656.2	1602.4	1643.0	1733.7	1734.7	1654.0	1697.4	2033.9	1942.7	1890.5
50°	1718.0	1755.2	1880.3	1972.6	1947.8	1755.3	1739.9	2099.5	2015.8	1973.9
52.5°	1789.6	1926.1	2099.5	2202.1	2144.1	1865.8	1810.6	2170.5	2131.8	2091.7
55°	1872.8	2042.8	2318.1	2399.9	2341.4	2003.1	1918.1	2266.7	2262.9	2235.5
57.5°	1966.9	2166.0	2444.7	2555.4	2503.3	2164.1	2068.3	2357.4	2342.9	2327.6
59°	2041.3	2229.3	2500.5	2615.3	2583.9	2276.9	2169.2	2413.9	2361.4	2338.5
60°	2086.4	2272.2	2521.1	2623.3	2616.2	2344.0	2233.1	2441.5	2361.2	2329.3
62.5°	2220.0	2347.2	2513.3	2587.5	2615.7	2472.7	2420.7	2471.9	2317.5	2270.7
65°	2267.5	2322.3	2383.1	2374.0	2398.2	2466.1	2540.5	2438.6	2224.0	2157.5
67.5°	2174.9	2049.8	2071.2	2010.2	1998.4	2192.6	2491.9	2275.4	2041.1	1959.7
70°	1833.3	1570.3	1559.5	1587.6	1510.6	1775.1	2237.6	1961.2	1739.2	1647.0
72.5°	1443.1	1109.8	1018.5	1121.6	1119.3	1354.3	1858.8	1391.7	1175.0	1167.1
75°	1134.8	772.6	678.1	694.9	727.1	980.4	1480.5	883.7	723.6	659.4
77.5°	761.8	547.4	510.7	490.1	525.0	629.4	936.6	479.3	405.8	384.3
80°	439.1	397.7	451.6	410.0	428.7	396.6	465.8	219.8	182.5	197.6
82.5°	285.7	226.5	241.4	179.3	245.2	247.3	149.5	65.0	55.0	58.4
85°	178.6	106.2	59.7	42.5	84.5	155.5	46.8	4.0	4.7	4.0
87.5°	46.3	17.7	7.4	11.0	13.6	12.1	10.8	0.7	0.3	0.4
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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