

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: P450204

Luminaire Tested: **GALN-SA1A-727-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450204
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-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 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: 2779 lumens
Efficiency: N/A
Efficacy: 84.2 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

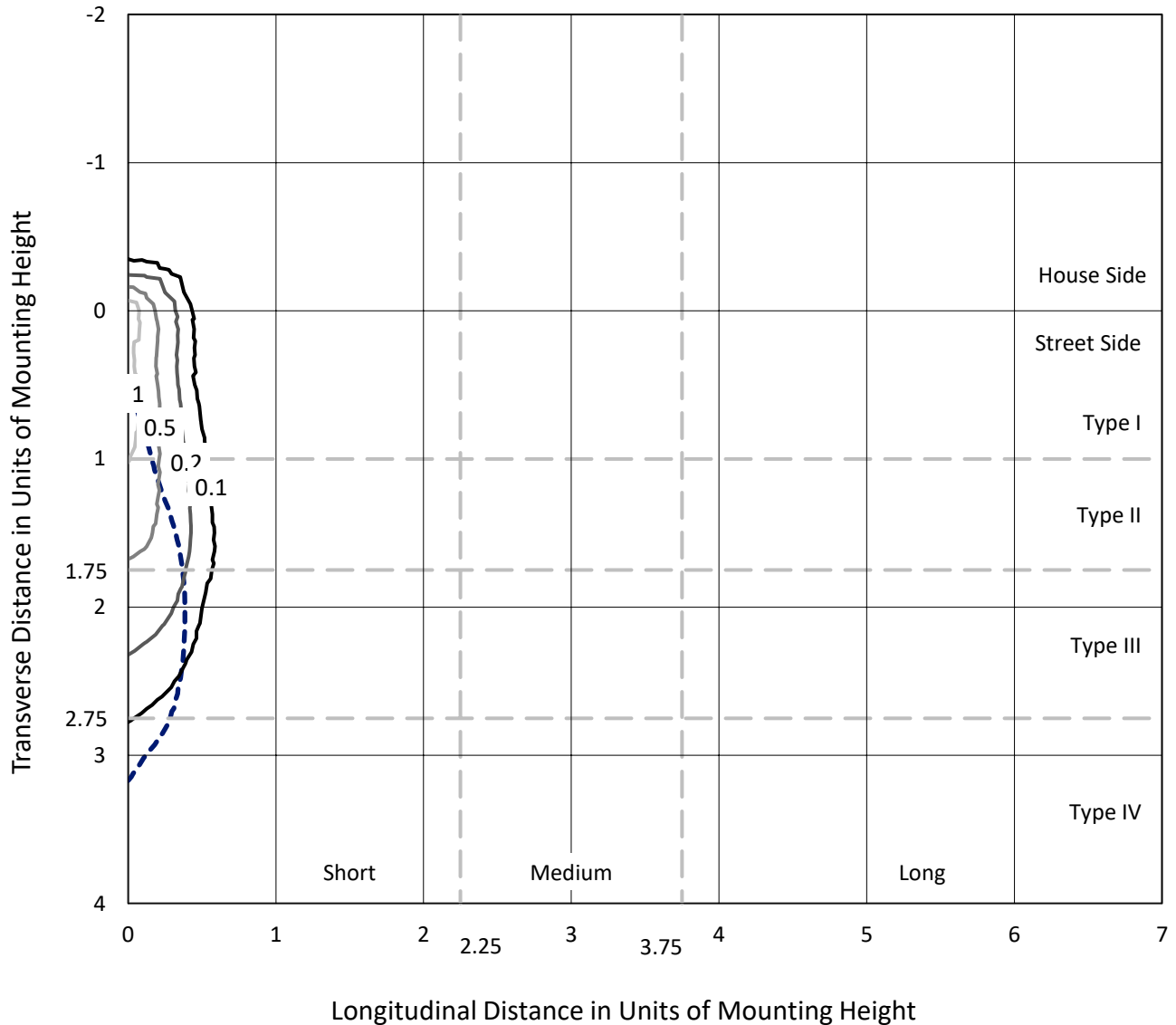
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

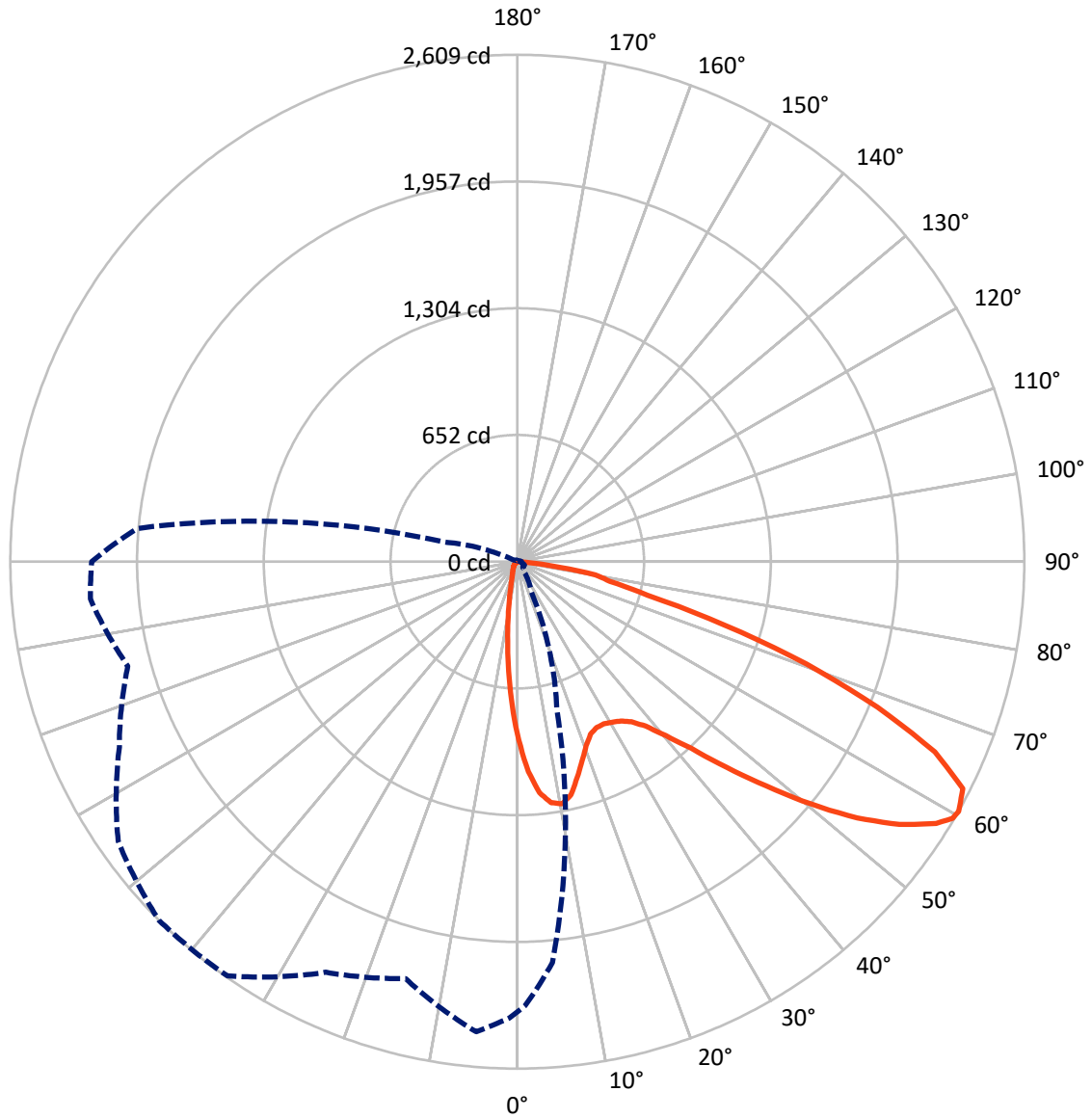
× Max cd
 - - - 1/2 Max cd



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	342.8	0.0	342.8
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	2436.2	0.0	2436.2
	% Fixture	87.7	0.0	87.7
Total	Lumens	2779.0	0.0	2779.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	2.5
10°-20°	135.7	4.9
20°-30°	198.9	7.2
30°-40°	295.9	10.6
40°-50°	430.6	15.5
50°-60°	620.9	22.3
60°-70°	682.9	24.6
70°-80°	305.9	11.0
80°-90°	40.0	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°	2779.0	100.0
0°-180°	2779.0	100.0



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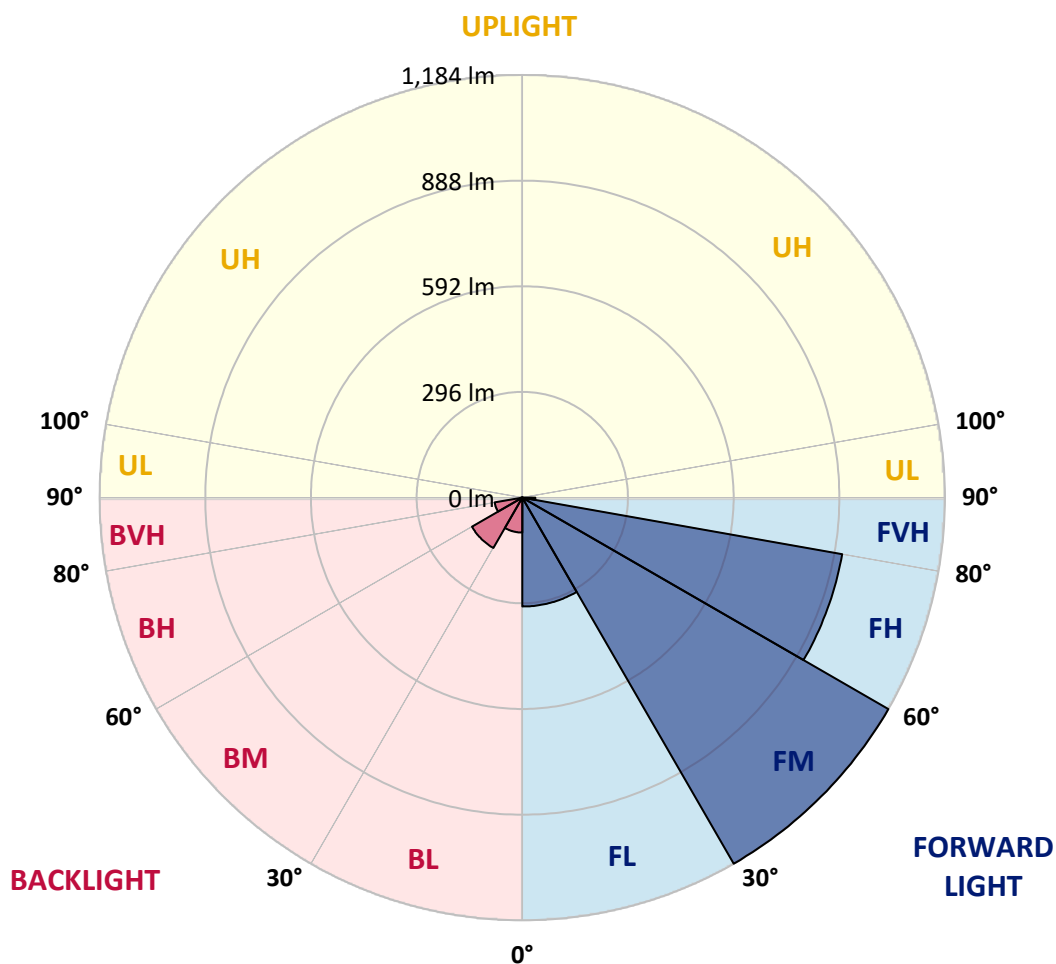
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	305.0	11.0			
FM	(30°-60°)	1184.5	42.6			
FH	(60°-80°)	910.2	32.8			G1/1800
FVH	(80°-90°)	36.6	1.3			G1/100
BL	(0°-30°)	97.9	3.5	B0/110		
BM	(30°-60°)	162.8	5.9	B0/220		
BH	(60°-80°)	78.6	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°	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5
2.5°	1009.8	1005.3	995.2	964.3	937.5	902.4	867.0	839.1	822.0	790.5	776.1
5°	978.3	980.4	951.0	887.7	817.1	768.9	716.3	674.5	628.5	599.3	568.7
7.5°	896.1	891.9	860.0	771.7	685.9	616.2	549.7	495.6	461.6	434.3	411.5
10°	825.8	822.6	781.8	668.2	576.1	523.9	478.9	431.6	395.0	355.1	323.2
12.5°	781.6	774.4	727.5	608.8	533.8	485.2	436.2	387.0	336.5	296.2	257.5
15°	766.8	756.5	704.3	588.3	506.8	445.1	383.6	327.0	268.9	224.3	195.2
17.5°	793.7	776.5	721.0	584.7	474.5	392.7	317.1	243.4	182.9	148.9	131.0
20°	855.1	835.5	763.2	581.1	438.5	334.0	241.0	172.0	126.5	107.9	98.0
22.5°	946.4	919.3	825.8	586.8	405.4	276.7	174.1	121.5	100.6	88.9	82.0
25°	1056.0	1033.4	905.0	607.1	379.2	231.7	134.6	99.3	84.7	77.5	72.2
27.5°	1176.2	1140.1	1007.4	631.4	355.3	196.9	118.1	88.7	75.4	68.9	66.1
30°	1261.8	1233.7	1093.2	648.3	325.5	170.7	107.9	87.5	75.6	67.8	62.7
32.5°	1346.3	1310.4	1165.0	656.1	303.8	152.5	93.4	76.3	66.3	62.3	57.2
35°	1436.7	1399.1	1236.6	651.9	287.5	140.5	84.7	68.0	56.8	50.1	45.0
37.5°	1528.2	1488.4	1307.8	636.7	277.4	135.6	77.9	64.6	53.7	46.7	41.2
40°	1636.7	1583.7	1374.6	624.2	266.8	133.1	73.5	62.5	51.3	43.9	38.4
42.5°	1725.5	1675.0	1437.7	617.7	259.6	127.2	73.5	60.8	49.9	41.6	35.9
45°	1809.5	1757.1	1506.0	623.0	256.7	119.8	74.4	60.6	48.8	39.9	34.2
47.5°	1879.9	1834.5	1576.1	642.8	252.9	111.7	69.9	63.6	48.2	38.4	32.5
50°	1962.9	1919.0	1668.8	683.0	246.1	103.7	64.4	68.4	48.0	37.2	31.1
52.5°	2079.9	2032.4	1796.9	728.6	235.3	91.5	59.4	67.8	47.1	35.1	29.6
55°	2222.9	2184.5	1945.2	783.3	220.5	77.7	51.3	60.2	44.6	31.5	27.0
57.5°	2314.6	2281.9	2056.3	807.0	197.9	63.6	45.2	50.5	40.8	28.1	24.1
59°	2325.4	2295.8	2079.5	799.1	183.2	58.1	42.2	43.3	39.7	26.2	22.4
60°	2316.3	2285.7	2070.2	783.9	169.4	54.3	39.7	38.4	39.9	25.1	21.1
62.5°	2258.0	2205.6	1980.0	706.8	148.1	49.9	35.3	31.5	35.3	22.6	18.8
65°	2145.4	2066.8	1801.5	598.2	139.6	47.3	30.0	26.4	26.8	19.9	16.3
67.5°	1948.7	1849.7	1563.9	486.1	136.0	47.5	25.3	23.7	20.7	16.9	14.4
70°	1637.8	1538.9	1254.8	399.9	134.4	47.5	21.5	20.3	17.3	14.2	12.5
72.5°	1160.6	1054.1	846.5	314.1	121.0	47.3	18.4	18.4	14.2	11.8	10.1
75°	655.7	656.6	532.1	222.2	100.6	39.1	14.8	14.6	10.4	9.1	7.6
77.5°	382.1	375.4	358.7	95.5	46.7	17.7	10.4	8.9	7.2	6.5	5.5
80°	196.5	161.6	157.4	34.6	16.7	11.2	7.2	5.1	4.6	4.2	3.8
82.5°	58.1	58.3	52.0	13.9	9.3	7.4	3.6	2.7	2.5	2.3	2.3
85°	4.0	2.5	3.0	4.2	5.7	3.0	0.2	0.6	0.6	0.8	1.1
87.5°	0.4	0.2	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°	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5
2.5°	760.3	769.6	752.2	752.7	738.3	743.0	726.1	731.5	721.6	729.2	751.6
5°	572.1	574.2	560.2	555.8	557.9	566.6	569.9	554.5	561.1	548.2	547.3
7.5°	403.1	405.6	397.6	396.5	411.7	408.1	414.7	398.8	383.8	390.4	378.3
10°	313.1	302.5	286.0	281.4	278.4	280.3	280.3	266.0	263.8	258.1	266.8
12.5°	247.2	234.3	218.6	197.5	192.2	191.8	184.0	171.3	167.3	162.4	169.6
15°	179.6	174.3	161.2	149.4	137.3	135.0	122.3	112.0	98.2	96.3	95.7
17.5°	126.3	118.5	118.3	111.5	104.6	99.9	88.1	76.3	71.0	70.3	70.3
20°	94.6	91.9	87.5	86.6	84.5	79.2	68.7	62.3	59.8	60.0	60.8
22.5°	79.6	77.7	73.7	71.8	71.0	66.3	58.5	54.3	53.0	53.0	53.2
25°	71.2	69.5	65.1	62.1	61.1	57.7	51.5	48.4	47.3	47.3	47.3
27.5°	64.9	62.7	58.1	55.6	53.7	49.9	46.1	42.9	41.8	41.8	42.0
30°	60.4	58.1	53.9	50.5	47.5	44.2	41.0	38.2	37.0	36.8	37.0
32.5°	54.5	52.4	48.2	46.1	42.7	38.7	36.1	33.6	32.3	32.5	32.3
35°	42.5	41.8	38.9	39.5	37.6	34.2	31.9	29.2	27.7	27.5	27.9
37.5°	38.7	36.1	32.7	33.0	32.3	31.1	27.3	24.3	23.2	23.2	23.4
40°	35.7	33.2	29.4	27.5	27.7	27.7	23.7	20.5	19.4	19.2	19.6
42.5°	33.2	30.6	26.4	23.2	22.4	23.4	20.1	16.9	15.8	15.4	15.8
45°	31.5	28.7	23.9	20.3	17.7	19.0	16.5	13.9	12.7	12.7	12.5
47.5°	29.8	27.3	22.0	17.5	14.8	14.2	13.5	11.2	9.9	9.7	9.9
50°	28.3	25.8	19.9	15.2	12.5	11.0	11.0	8.9	8.0	7.6	7.8
52.5°	26.8	24.1	18.0	13.5	10.8	8.9	7.8	7.2	6.5	6.3	6.5
55°	24.7	22.0	16.1	11.6	9.3	7.4	6.1	5.9	5.5	5.1	5.5
57.5°	22.2	19.6	14.2	9.9	7.4	5.7	5.1	4.9	4.4	4.2	4.2
59°	20.7	18.4	13.1	8.7	6.5	5.1	4.6	4.4	4.0	3.6	3.8
60°	19.9	18.0	12.5	8.0	5.9	4.6	4.2	4.0	3.6	3.4	3.6
62.5°	17.5	16.1	11.0	6.5	4.6	3.4	3.0	3.2	3.0	2.7	3.0
65°	15.4	14.2	9.3	5.1	3.6	2.3	2.1	2.7	2.5	2.3	2.5
67.5°	13.7	12.3	7.8	3.8	2.5	1.3	1.5	2.3	2.3	2.1	2.3
70°	11.8	10.6	6.3	2.7	1.3	0.6	1.1	1.7	2.1	1.9	2.1
72.5°	9.7	8.2	4.9	1.9	0.6	0.0	0.6	1.5	2.1	1.9	2.1
75°	7.6	6.1	3.6	1.1	0.0	0.0	0.2	1.3	2.1	1.9	2.1
77.5°	5.5	4.4	2.1	0.2	0.0	0.0	0.2	1.3	2.1	1.9	2.1
80°	3.6	3.2	0.8	0.0	0.0	0.0	0.2	1.3	2.1	2.1	2.3
82.5°	2.3	1.7	0.0	0.0	0.0	0.0	0.4	1.7	2.3	2.5	2.5
85°	1.1	0.0	0.0	0.0	0.0	0.0	0.8	2.1	2.7	2.7	2.7
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°	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5
2.5°	755.4	768.7	787.5	816.5	839.9	876.9	905.2	943.8	982.9	994.8	1013.1
5°	556.0	573.1	615.8	654.7	679.2	757.3	806.7	884.7	954.6	988.2	1024.8
7.5°	386.2	406.4	439.0	493.3	544.8	608.4	688.2	777.4	879.8	927.8	979.3
10°	271.0	296.4	342.2	386.8	451.6	512.1	590.9	689.3	802.3	858.9	923.6
12.5°	171.1	193.7	254.3	304.4	385.3	455.4	528.1	617.3	748.2	806.3	874.1
15°	97.8	116.8	145.1	209.3	299.1	391.9	482.5	586.0	720.6	792.2	865.5
17.5°	72.9	77.9	90.6	127.0	208.7	317.1	440.4	576.5	739.4	823.4	907.1
20°	61.3	64.6	70.6	84.9	133.1	244.2	399.5	578.2	800.2	905.8	985.3
22.5°	54.9	57.0	61.9	71.2	90.8	177.9	351.5	588.1	873.9	1007.0	1098.7
25°	48.2	50.9	55.1	63.2	75.6	123.4	304.2	610.3	977.2	1135.4	1221.6
27.5°	42.9	45.4	49.6	57.0	66.3	94.2	249.1	629.3	1086.2	1264.7	1335.3
30°	37.6	40.1	44.4	50.3	58.7	76.3	189.7	640.5	1192.1	1361.7	1416.0
32.5°	33.2	35.3	39.3	44.6	51.5	64.6	149.6	628.9	1273.0	1449.8	1486.1
35°	28.7	31.3	34.6	39.5	45.6	55.1	124.4	588.7	1342.5	1540.4	1553.5
37.5°	24.1	27.0	30.6	35.1	39.9	50.7	99.9	544.4	1416.8	1653.4	1631.9
40°	20.3	23.0	26.4	31.3	35.7	46.5	76.9	497.1	1497.1	1759.5	1717.4
42.5°	16.5	19.4	23.4	27.9	35.3	40.6	59.6	448.1	1569.1	1851.8	1794.7
45°	13.1	15.6	19.9	25.6	35.1	34.9	46.1	399.7	1623.4	1917.7	1852.4
47.5°	10.4	12.5	16.7	24.9	32.3	29.6	37.0	369.7	1680.5	1977.1	1896.6
50°	8.2	10.4	14.4	26.0	28.3	25.3	31.1	374.5	1735.6	2007.3	1914.7
52.5°	7.0	9.1	12.5	20.5	21.8	22.2	27.3	396.9	1806.8	2039.6	1950.9
55°	6.1	8.0	10.6	14.4	16.9	19.9	24.9	413.2	1902.1	2108.9	2030.5
57.5°	4.9	7.0	9.5	12.3	13.9	17.3	23.0	414.5	1988.3	2197.8	2136.3
59°	4.4	6.3	8.9	11.6	12.5	15.6	21.8	403.7	1991.4	2211.1	2184.9
60°	4.0	6.1	8.4	10.8	11.8	14.8	20.7	391.2	1962.7	2190.0	2205.0
62.5°	3.4	5.3	7.4	8.7	10.1	12.3	18.0	346.0	1823.5	2094.3	2167.8
65°	3.0	4.6	6.3	7.2	8.4	10.6	15.8	276.9	1669.7	1964.6	2061.3
67.5°	2.7	4.2	5.5	6.1	7.4	9.7	14.2	195.6	1470.5	1800.0	1901.4
70°	2.5	4.0	4.9	5.7	6.5	8.2	12.0	114.1	1132.7	1511.5	1618.6
72.5°	2.5	3.8	4.2	4.9	5.7	7.4	11.2	61.7	774.4	1153.0	1291.3
75°	2.5	3.6	3.8	4.2	5.1	6.8	9.9	32.3	500.7	801.0	988.6
77.5°	2.5	3.4	3.8	4.0	4.9	5.9	8.7	20.3	333.6	561.1	668.2
80°	2.7	3.4	3.6	4.0	4.6	5.5	7.2	13.5	196.0	337.6	406.6
82.5°	3.0	3.4	3.8	4.2	4.9	5.3	6.3	8.4	90.4	223.3	252.7
85°	3.2	3.6	4.0	4.4	5.1	5.3	5.9	6.1	14.8	100.8	136.3
87.5°	3.4	3.8	4.2	4.6	5.5	5.5	5.5	5.5	5.1	10.8	27.5
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°	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5
2.5°	1036.4	1060.2	1076.9	1081.2	1069.1	1063.6	1048.4	1024.8	1010.4	1009.8
5°	1092.1	1148.1	1187.0	1193.5	1170.3	1131.0	1084.3	1024.1	988.8	978.3
7.5°	1082.6	1180.7	1243.2	1252.3	1213.2	1138.2	1047.8	950.8	912.4	896.1
10°	1043.6	1163.1	1252.5	1266.8	1214.7	1109.0	994.1	886.0	838.2	825.8
12.5°	1010.2	1131.0	1210.4	1230.3	1190.8	1085.4	962.0	844.4	793.2	781.6
15°	995.6	1093.0	1141.6	1151.7	1145.2	1070.6	958.6	838.0	779.5	766.8
17.5°	1010.2	1060.7	1066.8	1077.1	1091.7	1069.1	991.2	872.4	809.3	793.7
20°	1048.4	1032.6	1007.2	1011.7	1045.0	1075.2	1049.0	948.7	871.8	855.1
22.5°	1113.5	1025.6	968.1	964.3	1006.6	1095.7	1134.0	1052.0	962.9	946.4
25°	1193.3	1043.1	953.8	945.5	991.6	1125.7	1226.3	1178.5	1081.2	1056.0
27.5°	1280.4	1079.5	953.8	945.8	990.3	1152.3	1305.3	1290.5	1203.7	1176.2
30°	1328.1	1109.5	967.5	958.4	1006.0	1167.8	1347.5	1390.0	1295.8	1261.8
32.5°	1370.8	1151.1	994.3	977.2	1038.7	1190.6	1385.4	1474.5	1369.1	1346.3
35°	1410.1	1195.7	1031.3	1011.4	1081.8	1221.8	1427.2	1563.2	1471.1	1436.7
37.5°	1453.4	1247.4	1089.0	1072.1	1153.8	1282.7	1476.8	1679.8	1571.5	1528.2
40°	1500.5	1307.4	1183.8	1176.6	1268.3	1351.6	1539.6	1804.3	1686.0	1636.7
42.5°	1548.4	1376.5	1300.0	1311.8	1398.0	1448.1	1604.0	1899.9	1779.8	1725.5
45°	1592.0	1464.8	1451.1	1509.6	1549.3	1542.3	1651.7	1967.3	1861.5	1809.5
47.5°	1646.9	1593.4	1633.8	1724.0	1725.0	1644.8	1687.9	2022.5	1931.8	1879.9
50°	1708.3	1745.3	1869.7	1961.6	1936.9	1745.5	1730.1	2087.7	2004.5	1962.9
52.5°	1779.5	1915.4	2087.7	2189.8	2132.1	1855.4	1800.5	2158.3	2119.9	2079.9
55°	1862.3	2031.3	2305.1	2386.5	2328.4	1991.8	1907.3	2254.0	2250.2	2222.9
57.5°	1955.9	2153.9	2431.0	2541.1	2489.3	2152.0	2056.7	2344.2	2329.8	2314.6
59°	2029.9	2216.8	2486.6	2600.7	2569.4	2264.1	2157.0	2400.4	2348.2	2325.4
60°	2074.7	2259.5	2507.1	2608.7	2601.5	2330.9	2220.6	2427.9	2348.0	2316.3
62.5°	2207.5	2334.1	2499.3	2573.0	2601.1	2458.9	2407.2	2458.1	2304.5	2258.0
65°	2254.8	2309.3	2369.8	2360.7	2384.8	2452.4	2526.3	2424.9	2211.5	2145.4
67.5°	2162.7	2038.3	2059.7	1999.0	1987.2	2180.3	2477.9	2262.7	2029.7	1948.7
70°	1823.1	1561.5	1550.8	1578.6	1502.2	1765.2	2225.1	1950.2	1729.5	1637.8
72.5°	1435.0	1103.6	1012.7	1115.4	1113.1	1346.7	1848.4	1383.9	1168.4	1160.6
75°	1128.5	768.3	674.3	691.0	723.1	974.9	1472.2	878.8	719.5	655.7
77.5°	757.5	544.4	507.8	487.3	522.0	625.9	931.4	476.6	403.5	382.1
80°	436.6	395.5	449.1	407.7	426.3	394.4	463.3	218.6	181.5	196.5
82.5°	284.1	225.2	240.0	178.3	243.8	245.9	148.7	64.6	54.7	58.1
85°	177.7	105.6	59.4	42.2	84.1	154.6	46.5	4.0	4.6	4.0
87.5°	46.1	17.5	7.4	11.0	13.5	12.0	10.8	0.6	0.2	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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