

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: P451132

Luminaire Tested: **GALN-SA2A-727-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451132
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-SA2A-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5523 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

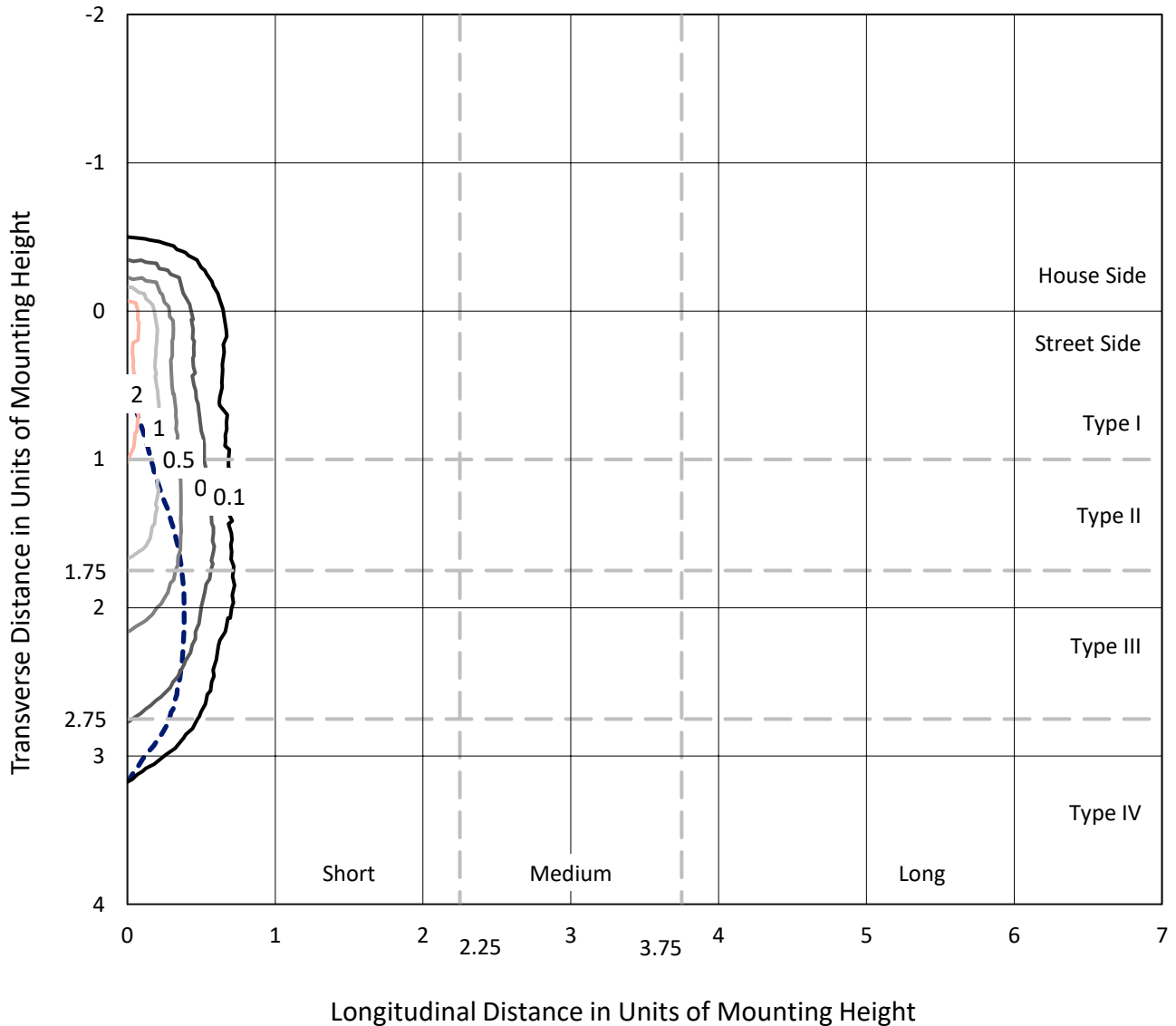
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

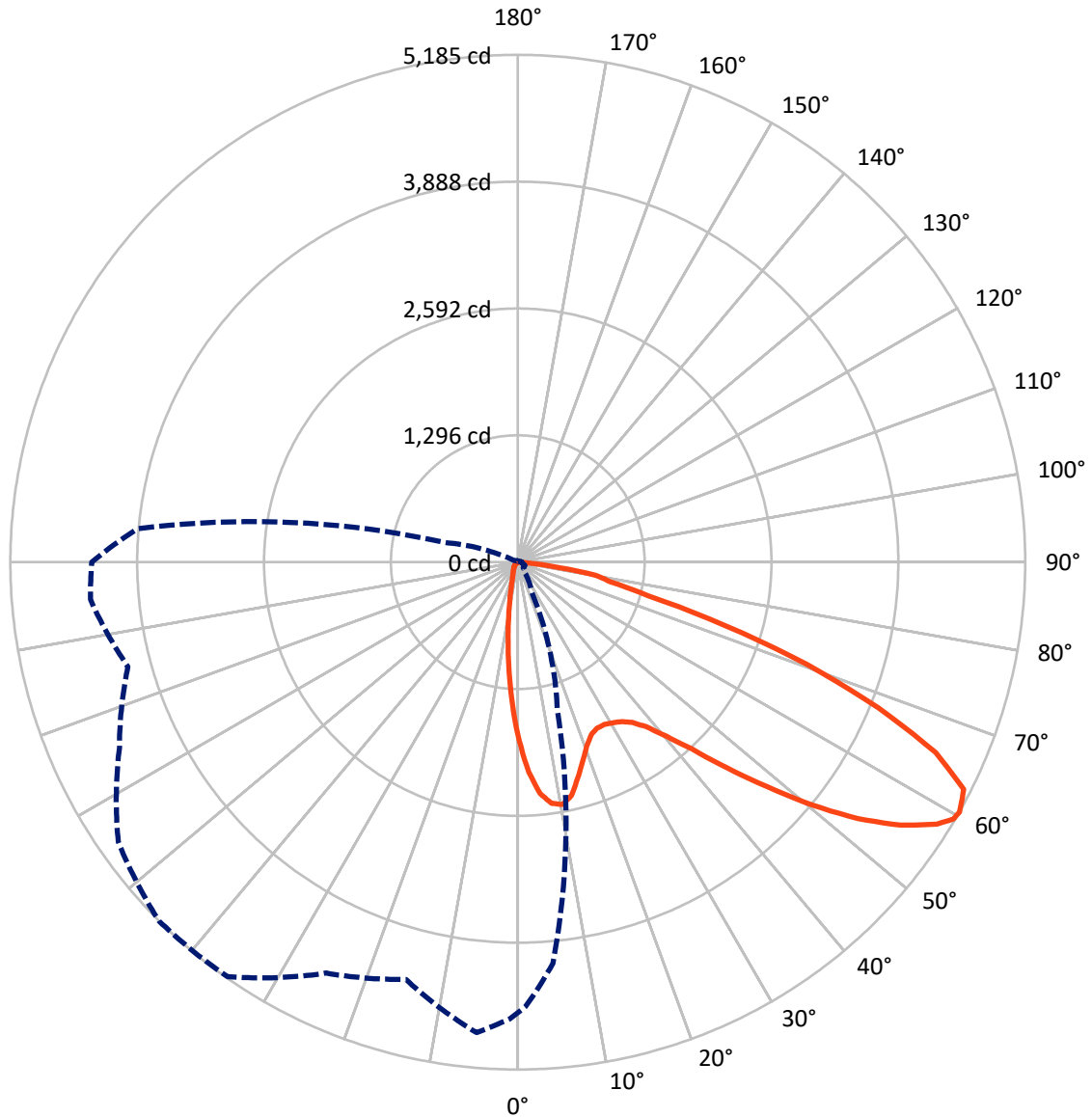
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	681.2	0.0	681.2
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	4841.8	0.0	4841.8
	% Fixture	87.7	0.0	87.7
Total	Lumens	5523.0	0.0	5523.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	2.5
10°-20°	269.6	4.9
20°-30°	395.4	7.2
30°-40°	588.0	10.6
40°-50°	855.7	15.5
50°-60°	1234.0	22.3
60°-70°	1357.2	24.6
70°-80°	607.9	11.0
80°-90°	79.4	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°	5523.0	100.0
0°-180°	5523.0	100.0

Coefficient of Utilization



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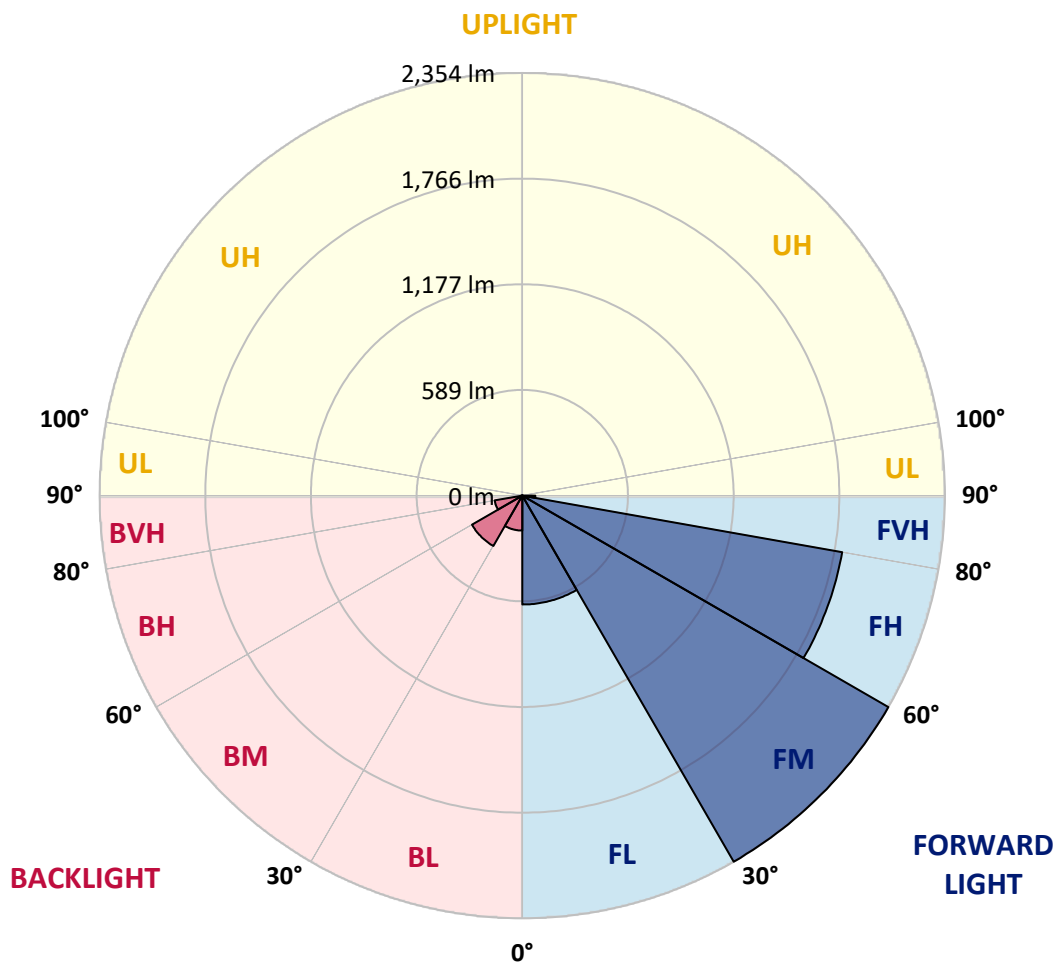
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	606.1	11.0			
FM	(30°-60°)	2354.1	42.6			
FH	(60°-80°)	1808.9	32.8			G2/5000
FVH	(80°-90°)	72.6	1.3			G1/100
BL	(0°-30°)	194.6	3.5	B1/500		
BM	(30°-60°)	323.6	5.9	B1/1000		
BH	(60°-80°)	156.2	2.8	B1/500		G1/500
BVH	(80°-90°)	6.8	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4
2.5°	2006.8	1998.0	1977.8	1916.5	1863.2	1793.5	1723.0	1667.6	1633.6	1571.0	1542.5
5°	1944.2	1948.4	1890.1	1764.1	1623.9	1528.2	1423.7	1340.5	1249.0	1191.1	1130.2
7.5°	1780.9	1772.5	1709.1	1533.6	1363.2	1224.7	1092.4	984.9	917.3	863.2	817.8
10°	1641.1	1634.8	1553.8	1327.9	1144.9	1041.2	951.8	857.7	785.1	705.7	642.3
12.5°	1553.4	1539.1	1445.9	1210.0	1060.9	964.4	867.0	769.1	668.8	588.6	511.8
15°	1524.0	1503.4	1399.7	1169.2	1007.2	884.6	762.4	649.9	534.4	445.9	387.9
17.5°	1577.3	1543.3	1432.9	1162.1	942.9	780.5	630.2	483.6	363.6	296.0	260.3
20°	1699.5	1660.4	1516.9	1155.0	871.6	663.8	479.0	341.7	251.5	214.5	194.8
22.5°	1880.8	1827.1	1641.1	1166.3	805.7	550.0	345.9	241.4	199.8	176.7	162.9
25°	2098.7	2053.8	1798.6	1206.6	753.6	460.6	267.4	197.3	168.4	154.1	143.6
27.5°	2337.6	2265.8	2002.2	1254.9	706.2	391.3	234.7	176.3	149.9	136.9	131.4
30°	2507.7	2451.8	2172.6	1288.5	647.0	339.2	214.5	173.8	150.3	134.8	124.7
32.5°	2675.6	2604.2	2315.4	1304.0	603.7	303.1	185.6	151.6	131.8	123.9	113.8
35°	2855.3	2780.5	2457.7	1295.6	571.4	279.2	168.4	135.2	112.9	99.5	89.4
37.5°	3037.1	2958.1	2599.2	1265.4	551.2	269.5	154.9	128.5	106.6	92.8	81.9
40°	3252.9	3147.5	2731.8	1240.6	530.2	264.5	146.1	124.3	102.0	87.3	76.4
42.5°	3429.2	3328.8	2857.4	1227.6	516.0	252.7	146.1	120.9	99.1	82.7	71.4
45°	3596.3	3492.2	2993.0	1238.1	510.1	238.0	147.8	120.5	97.0	79.3	68.0
47.5°	3736.1	3645.8	3132.4	1277.5	502.5	222.1	139.0	126.4	95.7	76.4	64.7
50°	3901.1	3813.8	3316.7	1357.3	489.1	206.1	128.0	136.0	95.3	73.9	61.7
52.5°	4133.7	4039.2	3571.1	1448.0	467.7	181.8	118.0	134.8	93.6	69.7	58.8
55°	4417.9	4341.5	3865.8	1556.7	438.3	154.5	102.0	119.7	88.6	62.6	53.7
57.5°	4600.1	4535.0	4086.6	1603.8	393.4	126.4	89.8	100.3	81.0	55.8	47.9
59°	4621.5	4562.7	4132.8	1588.2	364.0	115.5	84.0	86.1	78.9	52.1	44.5
60°	4603.5	4542.6	4114.4	1558.0	336.7	107.9	78.9	76.4	79.3	50.0	42.0
62.5°	4487.6	4383.5	3935.1	1404.8	294.3	99.1	70.1	62.6	70.1	44.9	37.4
65°	4263.8	4107.6	3580.3	1189.0	277.5	94.0	59.6	52.5	53.3	39.5	32.3
67.5°	3873.0	3676.1	3108.0	966.0	270.4	94.5	50.4	47.0	41.1	33.6	28.5
70°	3255.0	3058.5	2493.8	794.7	267.0	94.5	42.8	40.3	34.4	28.1	24.8
72.5°	2306.6	2095.0	1682.3	624.3	240.6	94.0	36.5	36.5	28.1	23.5	20.2
75°	1303.2	1304.8	1057.6	441.7	199.8	77.7	29.4	29.0	20.6	18.1	15.1
77.5°	759.5	746.0	712.9	189.8	92.8	35.3	20.6	17.6	14.3	13.0	10.9
80°	390.4	321.2	312.8	68.9	33.2	22.3	14.3	10.1	9.2	8.4	7.6
82.5°	115.5	115.9	103.3	27.7	18.5	14.7	7.1	5.5	5.0	4.6	4.6
85°	8.0	5.0	5.9	8.4	11.3	5.9	0.4	1.3	1.3	1.7	2.1
87.5°	0.8	0.4	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°	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4
2.5°	1511.0	1529.4	1495.0	1495.9	1467.3	1476.5	1443.0	1453.9	1434.1	1449.3	1493.8
5°	1136.9	1141.1	1113.4	1104.6	1108.8	1126.0	1132.7	1102.1	1115.1	1089.5	1087.8
7.5°	801.0	806.1	790.1	788.0	818.3	811.1	824.1	792.6	762.8	775.8	751.9
10°	622.2	601.2	568.5	559.2	553.3	557.1	557.1	528.6	524.4	513.0	530.2
12.5°	491.2	465.6	434.5	392.5	382.0	381.2	365.7	340.5	332.5	322.9	337.1
15°	356.9	346.4	320.3	296.8	272.9	268.3	243.1	222.5	195.2	191.4	190.2
17.5°	251.1	235.5	235.1	221.7	207.8	198.6	175.1	151.6	141.1	139.8	139.8
20°	188.1	182.6	173.8	172.1	167.9	157.4	136.4	123.9	118.8	119.2	120.9
22.5°	158.3	154.5	146.5	142.7	141.1	131.8	116.3	107.9	105.4	105.4	105.8
25°	141.5	138.1	129.3	123.4	121.3	114.6	102.4	96.1	94.0	94.0	94.0
27.5°	128.9	124.7	115.5	110.4	106.6	99.1	91.5	85.2	83.1	83.1	83.5
30°	120.1	115.5	107.1	100.3	94.5	87.7	81.4	76.0	73.5	73.1	73.5
32.5°	108.3	104.1	95.7	91.5	84.8	76.8	71.8	66.8	64.2	64.7	64.2
35°	84.4	83.1	77.2	78.5	74.7	68.0	63.4	57.9	55.0	54.6	55.4
37.5°	76.8	71.8	65.1	65.5	64.2	61.7	54.2	48.3	46.2	46.2	46.6
40°	71.0	65.9	58.4	54.6	55.0	55.0	47.0	40.7	38.6	38.2	39.0
42.5°	65.9	60.9	52.5	46.2	44.5	46.6	39.9	33.6	31.5	30.6	31.5
45°	62.6	57.1	47.4	40.3	35.3	37.8	32.7	27.7	25.2	25.2	24.8
47.5°	59.2	54.2	43.7	34.8	29.4	28.1	26.9	22.3	19.7	19.3	19.7
50°	56.3	51.2	39.5	30.2	24.8	21.8	21.8	17.6	16.0	15.1	15.5
52.5°	53.3	47.9	35.7	26.9	21.4	17.6	15.5	14.3	13.0	12.6	13.0
55°	49.1	43.7	31.9	23.1	18.5	14.7	12.2	11.8	10.9	10.1	10.9
57.5°	44.1	39.0	28.1	19.7	14.7	11.3	10.1	9.7	8.8	8.4	8.4
59°	41.1	36.5	26.0	17.2	13.0	10.1	9.2	8.8	8.0	7.1	7.6
60°	39.5	35.7	24.8	16.0	11.8	9.2	8.4	8.0	7.1	6.7	7.1
62.5°	34.8	31.9	21.8	13.0	9.2	6.7	5.9	6.3	5.9	5.5	5.9
65°	30.6	28.1	18.5	10.1	7.1	4.6	4.2	5.5	5.0	4.6	5.0
67.5°	27.3	24.4	15.5	7.6	5.0	2.5	2.9	4.6	4.6	4.2	4.6
70°	23.5	21.0	12.6	5.5	2.5	1.3	2.1	3.4	4.2	3.8	4.2
72.5°	19.3	16.4	9.7	3.8	1.3	0.0	1.3	2.9	4.2	3.8	4.2
75°	15.1	12.2	7.1	2.1	0.0	0.0	0.4	2.5	4.2	3.8	4.2
77.5°	10.9	8.8	4.2	0.4	0.0	0.0	0.4	2.5	4.2	3.8	4.2
80°	7.1	6.3	1.7	0.0	0.0	0.0	0.4	2.5	4.2	4.2	4.6
82.5°	4.6	3.4	0.0	0.0	0.0	0.0	0.8	3.4	4.6	5.0	5.0
85°	2.1	0.0	0.0	0.0	0.0	0.0	1.7	4.2	5.5	5.5	5.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	2.9	5.0	6.3	6.3	6.3
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°	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4
2.5°	1501.3	1527.8	1565.1	1622.7	1669.3	1742.7	1799.0	1875.8	1953.5	1977.0	2013.5
5°	1105.0	1139.0	1223.8	1301.1	1349.8	1505.1	1603.3	1758.3	1897.2	1964.0	2036.6
7.5°	767.5	807.8	872.4	980.3	1082.7	1209.1	1367.8	1545.0	1748.6	1843.9	1946.3
10°	538.6	589.0	680.1	768.7	897.6	1017.7	1174.3	1369.9	1594.5	1707.0	1835.5
12.5°	340.1	385.0	505.5	605.0	765.8	905.2	1049.6	1226.7	1487.0	1602.5	1737.3
15°	194.4	232.2	288.4	416.1	594.5	778.8	958.9	1164.6	1432.0	1574.4	1720.1
17.5°	144.8	154.9	180.1	252.3	414.8	630.2	875.4	1145.7	1469.4	1636.5	1802.8
20°	121.8	128.5	140.2	168.8	264.5	485.3	793.9	1149.1	1590.3	1800.2	1958.1
22.5°	109.2	113.4	123.0	141.5	180.5	353.5	698.6	1168.8	1736.8	2001.3	2183.5
25°	95.7	101.2	109.6	125.5	150.3	245.2	604.6	1212.9	1942.1	2256.6	2427.9
27.5°	85.2	90.3	98.7	113.4	131.8	187.2	495.0	1250.7	2158.8	2513.5	2653.8
30°	74.7	79.8	88.2	99.9	116.7	151.6	377.0	1272.9	2369.1	2706.2	2814.1
32.5°	65.9	70.1	78.1	88.6	102.4	128.5	297.2	1249.8	2529.9	2881.3	2953.5
35°	57.1	62.1	68.9	78.5	90.7	109.6	247.3	1170.1	2668.0	3061.4	3087.4
37.5°	47.9	53.7	60.9	69.7	79.3	100.8	198.6	1081.9	2815.8	3286.0	3243.2
40°	40.3	45.8	52.5	62.1	71.0	92.4	152.8	987.9	2975.4	3496.8	3413.2
42.5°	32.7	38.6	46.6	55.4	70.1	80.6	118.4	890.5	3118.5	3680.2	3566.9
45°	26.0	31.1	39.5	50.8	69.7	69.3	91.5	794.3	3226.4	3811.2	3681.5
47.5°	20.6	24.8	33.2	49.5	64.2	58.8	73.5	734.7	3339.8	3929.2	3769.3
50°	16.4	20.6	28.5	51.6	56.3	50.4	61.7	744.4	3449.3	3989.2	3805.4
52.5°	13.9	18.1	24.8	40.7	43.2	44.1	54.2	788.9	3590.8	4053.5	3877.2
55°	12.2	16.0	21.0	28.5	33.6	39.5	49.5	821.2	3780.2	4191.2	4035.4
57.5°	9.7	13.9	18.9	24.4	27.7	34.4	45.8	823.7	3951.5	4367.9	4245.8
59°	8.8	12.6	17.6	23.1	24.8	31.1	43.2	802.3	3957.8	4394.4	4342.3
60°	8.0	12.2	16.8	21.4	23.5	29.4	41.1	777.5	3900.7	4352.4	4382.2
62.5°	6.7	10.5	14.7	17.2	20.2	24.4	35.7	687.7	3624.0	4162.2	4308.3
65°	5.9	9.2	12.6	14.3	16.8	21.0	31.5	550.4	3318.4	3904.4	4096.7
67.5°	5.5	8.4	10.9	12.2	14.7	19.3	28.1	388.8	2922.5	3577.4	3778.9
70°	5.0	8.0	9.7	11.3	13.0	16.4	23.9	226.7	2251.1	3003.9	3216.8
72.5°	5.0	7.6	8.4	9.7	11.3	14.7	22.3	122.6	1539.1	2291.4	2566.4
75°	5.0	7.1	7.6	8.4	10.1	13.4	19.7	64.2	995.0	1592.0	1964.8
77.5°	5.0	6.7	7.6	8.0	9.7	11.8	17.2	40.3	662.9	1115.1	1327.9
80°	5.5	6.7	7.1	8.0	9.2	10.9	14.3	26.9	389.6	670.9	808.2
82.5°	5.9	6.7	7.6	8.4	9.7	10.5	12.6	16.8	179.7	443.8	502.1
85°	6.3	7.1	8.0	8.8	10.1	10.5	11.8	12.2	29.4	200.3	270.8
87.5°	6.7	7.6	8.4	9.2	10.9	10.9	10.9	10.9	10.1	21.4	54.6
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°	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4
2.5°	2059.7	2107.1	2140.3	2148.7	2124.8	2113.9	2083.6	2036.6	2008.1	2006.8
5°	2170.5	2281.8	2359.0	2372.1	2325.9	2247.8	2155.0	2035.3	1965.2	1944.2
7.5°	2151.6	2346.4	2470.7	2488.8	2411.1	2262.1	2082.4	1889.7	1813.3	1780.9
10°	2074.0	2311.6	2489.2	2517.7	2414.0	2204.1	1975.7	1760.8	1665.9	1641.1
12.5°	2007.6	2247.8	2405.6	2445.1	2366.6	2157.1	1911.9	1678.1	1576.5	1553.4
15°	1978.7	2172.2	2268.8	2288.9	2275.9	2127.7	1905.2	1665.5	1549.2	1524.0
17.5°	2007.6	2108.0	2120.2	2140.7	2169.7	2124.8	1969.9	1733.9	1608.4	1577.3
20°	2083.6	2052.1	2001.8	2010.6	2076.9	2136.9	2084.9	1885.5	1732.6	1699.5
22.5°	2212.9	2038.3	1924.1	1916.5	2000.5	2177.7	2253.7	2090.8	1913.6	1880.8
25°	2371.6	2073.1	1895.5	1879.2	1970.7	2237.3	2437.1	2342.2	2148.7	2098.7
27.5°	2544.6	2145.3	1895.5	1879.6	1968.2	2290.2	2594.1	2564.8	2392.2	2337.6
30°	2639.5	2205.0	1922.8	1904.8	1999.2	2320.8	2678.1	2762.5	2575.3	2507.7
32.5°	2724.3	2287.7	1976.2	1942.1	2064.3	2366.2	2753.3	2930.4	2720.9	2675.6
35°	2802.4	2376.3	2049.6	2010.2	2150.0	2428.3	2836.4	3106.8	2923.7	2855.3
37.5°	2888.4	2479.1	2164.2	2130.6	2293.1	2549.2	2935.0	3338.5	3123.1	3037.1
40°	2982.1	2598.3	2352.7	2338.5	2520.7	2686.1	3059.7	3585.8	3350.7	3252.9
42.5°	3077.4	2735.6	2583.6	2607.2	2778.4	2877.9	3187.8	3776.0	3537.1	3429.2
45°	3163.9	2911.1	2883.8	3000.1	3079.0	3065.2	3282.7	3909.9	3699.6	3596.3
47.5°	3273.0	3166.8	3247.0	3426.3	3428.3	3268.8	3354.5	4019.5	3839.4	3736.1
50°	3395.2	3468.7	3715.9	3898.6	3849.4	3469.1	3438.4	4149.2	3983.8	3901.1
52.5°	3536.7	3806.6	4149.2	4352.0	4237.4	3687.4	3578.2	4289.4	4213.0	4133.7
55°	3701.2	4037.1	4581.2	4742.8	4627.4	3958.6	3790.7	4479.6	4472.1	4417.9
57.5°	3887.2	4280.6	4831.4	5050.2	4947.3	4276.8	4087.5	4658.9	4630.3	4600.1
59°	4034.2	4405.7	4941.8	5168.6	5106.4	4499.8	4286.9	4770.6	4666.9	4621.5
60°	4123.2	4490.5	4982.6	5184.5	5170.2	4632.4	4413.3	4825.1	4666.4	4603.5
62.5°	4387.2	4638.7	4967.0	5113.6	5169.4	4886.8	4784.0	4885.2	4579.9	4487.6
65°	4481.3	4589.6	4709.7	4691.6	4739.5	4873.8	5020.8	4819.3	4395.2	4263.8
67.5°	4298.2	4051.0	4093.4	3972.9	3949.4	4333.1	4924.6	4496.8	4033.7	3873.0
70°	3623.2	3103.4	3082.0	3137.4	2985.4	3508.1	4422.1	3875.9	3437.2	3255.0
72.5°	2851.9	2193.2	2012.7	2216.7	2212.1	2676.4	3673.5	2750.3	2322.1	2306.6
75°	2242.7	1526.9	1340.1	1373.3	1437.1	1937.5	2925.8	1746.5	1429.9	1303.2
77.5°	1505.5	1081.9	1009.3	968.6	1037.4	1244.0	1851.0	947.1	801.9	759.5
80°	867.8	785.9	892.6	810.3	847.2	783.8	920.7	434.5	360.6	390.4
82.5°	564.7	447.5	476.9	354.3	484.5	488.7	295.6	128.5	108.7	115.5
85°	353.1	209.9	118.0	84.0	167.1	307.3	92.4	8.0	9.2	8.0
87.5°	91.5	34.8	14.7	21.8	26.9	23.9	21.4	1.3	0.4	0.8
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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