

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: P451567

Luminaire Tested: **GALN-SA2C-722-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451567
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-SA2C-722-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2200K, 1050mA 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: 7464 lumens
Efficiency: N/A
Efficacy: 69.1 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): 108
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

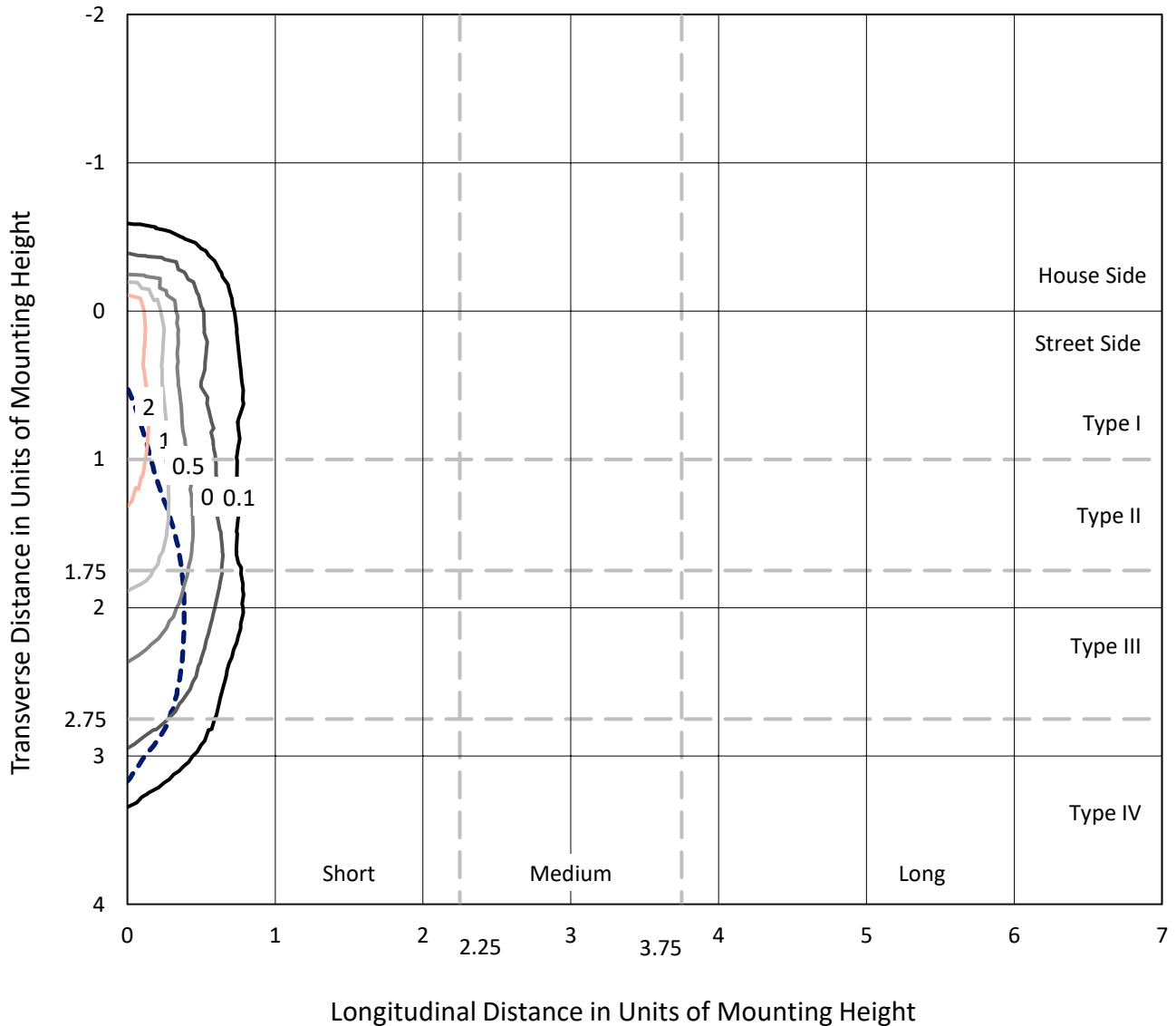




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Iso-Footcandle Lines of Horizontal Illumination

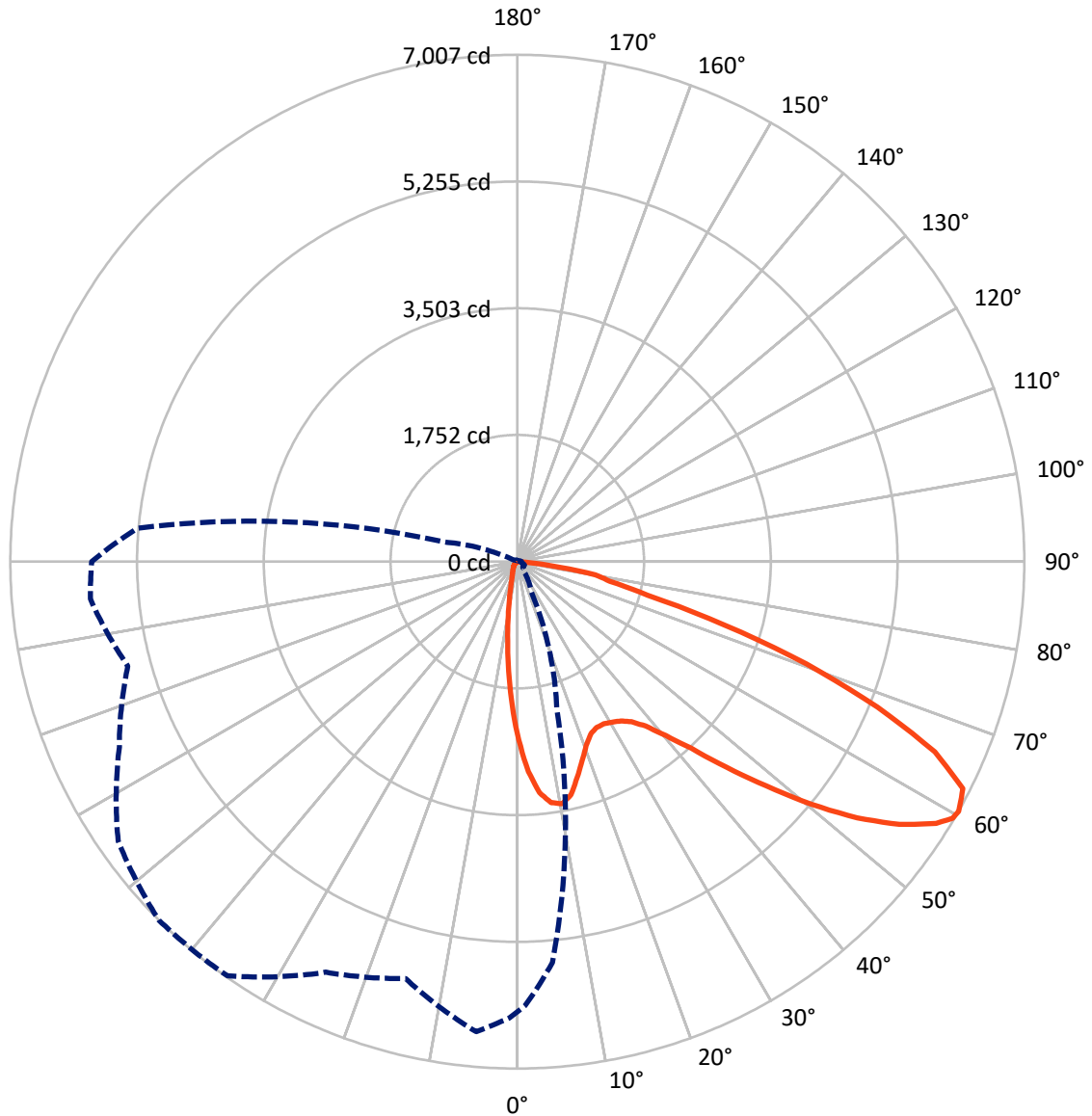
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	920.6	0.0	920.6
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	6543.4	0.0	6543.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	7464.0	0.0	7464.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.5	2.5
10°-20°	364.4	4.9
20°-30°	534.3	7.2
30°-40°	794.6	10.6
40°-50°	1156.4	15.5
50°-60°	1667.6	22.3
60°-70°	1834.2	24.6
70°-80°	821.6	11.0
80°-90°	107.3	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°	7464.0	100.0
0°-180°	7464.0	100.0



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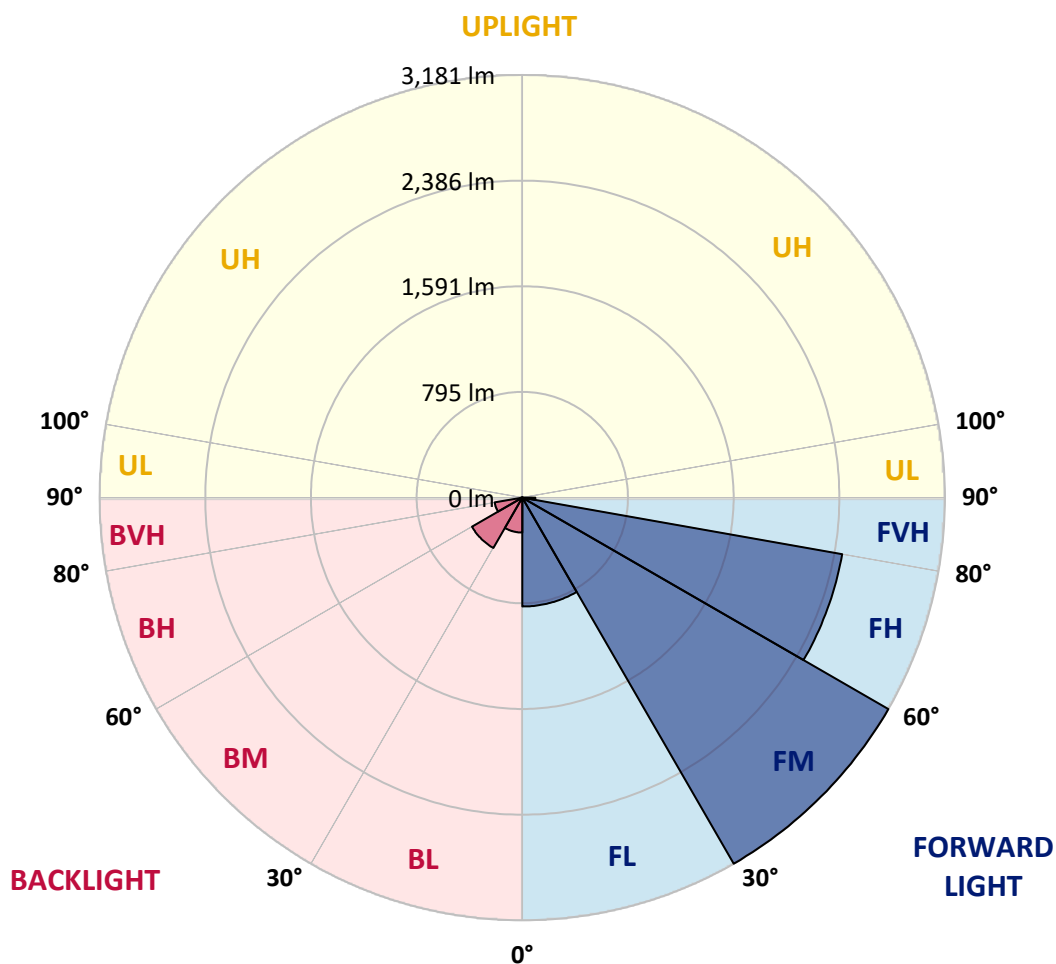
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	819.1	11.0			
FM (30°-60°)	3181.4	42.6			
FH (60°-80°)	2444.7	32.8			G2/5000
FVH (80°-90°)	98.2	1.3			G1/100
BL (0°-30°)	263.0	3.5	B1/500		
BM (30°-60°)	437.3	5.9	B1/1000		
BH (60°-80°)	211.1	2.8	B1/500		G1/500
BVH (80°-90°)	9.2	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°	2467.0	2467.0	2467.0	2467.0	2467.0	2467.0	2467.0	2467.0	2467.0	2467.0	2467.0
2.5°	2712.1	2700.2	2672.9	2590.1	2518.0	2423.8	2328.5	2253.6	2207.7	2123.1	2084.5
5°	2627.5	2633.2	2554.3	2384.1	2194.6	2065.3	1924.0	1811.6	1687.9	1609.7	1527.4
7.5°	2406.8	2395.5	2309.8	2072.6	1842.3	1655.0	1476.3	1331.1	1239.7	1166.5	1105.3
10°	2217.9	2209.4	2099.9	1794.6	1547.2	1407.1	1286.2	1159.2	1061.0	953.8	868.1
12.5°	2099.3	2080.0	1954.0	1635.2	1433.8	1303.3	1171.6	1039.4	903.8	795.5	691.6
15°	2059.6	2031.8	1891.6	1580.1	1361.1	1195.5	1030.4	878.3	722.3	602.6	524.3
17.5°	2131.6	2085.7	1936.5	1570.5	1274.3	1054.8	851.6	653.6	491.3	400.0	351.8
20°	2296.7	2244.0	2049.9	1560.9	1177.9	897.0	647.4	461.8	339.9	289.9	263.3
22.5°	2541.9	2469.2	2217.9	1576.2	1088.8	743.3	467.5	326.2	270.1	238.9	220.1
25°	2836.3	2775.6	2430.6	1630.6	1018.4	622.4	361.4	266.7	227.5	208.2	194.0
27.5°	3159.2	3062.1	2705.8	1695.9	954.3	528.8	317.2	238.3	202.6	185.0	177.6
30°	3388.9	3313.5	2936.2	1741.3	874.3	458.4	289.9	234.9	203.1	182.1	168.5
32.5°	3615.9	3519.4	3129.1	1762.3	815.9	409.6	250.8	204.8	178.2	167.4	153.8
35°	3858.7	3757.7	3321.4	1750.9	772.2	377.3	227.5	182.7	152.6	134.5	120.9
37.5°	4104.4	3997.7	3512.6	1710.1	745.0	364.3	209.4	173.6	144.1	125.4	110.6
40°	4396.0	4253.6	3691.9	1676.6	716.6	357.4	197.4	167.9	137.9	118.0	103.3
42.5°	4634.3	4498.7	3861.6	1659.0	697.3	341.6	197.4	163.4	133.9	111.8	96.5
45°	4860.2	4719.4	4044.8	1673.2	689.4	321.7	199.7	162.8	131.1	107.2	91.9
47.5°	5049.1	4927.1	4233.2	1726.5	679.2	300.1	187.8	170.8	129.4	103.3	87.4
50°	5272.1	5154.1	4482.3	1834.3	661.0	278.6	173.1	183.8	128.8	99.9	83.4
52.5°	5586.4	5458.7	4826.1	1956.9	632.1	245.7	159.4	182.1	126.5	94.2	79.4
55°	5970.5	5867.3	5224.4	2103.8	592.3	208.8	137.9	161.7	119.7	84.5	72.6
57.5°	6216.8	6128.8	5522.9	2167.4	531.6	170.8	121.4	135.6	109.5	75.5	64.7
59°	6245.7	6166.3	5585.3	2146.4	491.9	156.0	113.5	116.3	106.7	70.4	60.1
60°	6221.3	6139.0	5560.3	2105.5	455.0	145.8	106.7	103.3	107.2	67.5	56.7
62.5°	6064.7	5924.0	5318.0	1898.4	397.7	133.9	94.8	84.5	94.8	60.7	50.5
65°	5762.3	5551.2	4838.6	1606.8	375.0	127.1	80.6	70.9	72.1	53.3	43.7
67.5°	5234.1	4968.0	4200.3	1305.5	365.4	127.7	68.1	63.5	55.6	45.4	38.6
70°	4398.9	4133.3	3370.2	1074.0	360.9	127.7	57.9	54.5	46.5	38.0	33.5
72.5°	3117.2	2831.2	2273.5	843.7	325.1	127.1	49.4	49.4	38.0	31.8	27.2
75°	1761.1	1763.4	1429.2	596.9	270.1	105.0	39.7	39.1	27.8	24.4	20.4
77.5°	1026.4	1008.2	963.4	256.5	125.4	47.7	27.8	23.8	19.3	17.6	14.8
80°	527.7	434.0	422.7	93.0	44.8	30.1	19.3	13.6	12.5	11.3	10.2
82.5°	156.0	156.6	139.6	37.4	25.0	19.9	9.6	7.4	6.8	6.2	6.2
85°	10.8	6.8	7.9	11.3	15.3	7.9	0.6	1.7	1.7	2.3	2.8
87.5°	1.1	0.6	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°	2467.0	2467.0	2467.0	2467.0	2467.0	2467.0	2467.0	2467.0	2467.0	2467.0	2467.0
2.5°	2042.0	2067.0	2020.4	2021.6	1983.0	1995.5	1950.1	1964.8	1938.2	1958.6	2018.7
5°	1536.5	1542.1	1504.7	1492.8	1498.4	1521.7	1530.8	1489.4	1507.0	1472.3	1470.1
7.5°	1082.6	1089.4	1067.8	1065.0	1105.8	1096.2	1113.8	1071.2	1030.9	1048.5	1016.2
10°	840.9	812.5	768.2	755.7	747.8	752.9	752.9	714.3	708.7	693.3	716.6
12.5°	663.8	629.2	587.2	530.5	516.3	515.2	494.2	460.1	449.4	436.3	455.6
15°	482.3	468.1	432.9	401.1	368.8	362.6	328.5	300.7	263.8	258.7	257.0
17.5°	339.3	318.3	317.7	299.6	280.9	268.4	236.6	204.8	190.6	188.9	188.9
20°	254.2	246.8	234.9	232.6	227.0	212.8	184.4	167.4	160.6	161.1	163.4
22.5°	213.9	208.8	198.0	192.9	190.6	178.2	157.2	145.8	142.4	142.4	143.0
25°	191.2	186.7	174.8	166.8	164.0	154.9	138.4	129.9	127.1	127.1	127.1
27.5°	174.2	168.5	156.0	149.2	144.1	133.9	123.7	115.2	112.3	112.3	112.9
30°	162.3	156.0	144.7	135.6	127.7	118.6	110.1	102.7	99.3	98.7	99.3
32.5°	146.4	140.7	129.4	123.7	114.6	103.8	97.0	90.2	86.8	87.4	86.8
35°	114.0	112.3	104.4	106.1	101.0	91.9	85.7	78.3	74.3	73.8	74.9
37.5°	103.8	97.0	87.9	88.5	86.8	83.4	73.2	65.2	62.4	62.4	63.0
40°	95.9	89.1	78.9	73.8	74.3	74.3	63.5	55.0	52.2	51.6	52.8
42.5°	89.1	82.3	70.9	62.4	60.1	63.0	53.9	45.4	42.6	41.4	42.6
45°	84.5	77.2	64.1	54.5	47.7	51.1	44.3	37.4	34.0	34.0	33.5
47.5°	80.0	73.2	59.0	47.1	39.7	38.0	36.3	30.1	26.7	26.1	26.7
50°	76.0	69.2	53.3	40.9	33.5	29.5	29.5	23.8	21.6	20.4	21.0
52.5°	72.1	64.7	48.2	36.3	28.9	23.8	21.0	19.3	17.6	17.0	17.6
55°	66.4	59.0	43.1	31.2	25.0	19.9	16.5	15.9	14.8	13.6	14.8
57.5°	59.6	52.8	38.0	26.7	19.9	15.3	13.6	13.0	11.9	11.3	11.3
59°	55.6	49.4	35.2	23.3	17.6	13.6	12.5	11.9	10.8	9.6	10.2
60°	53.3	48.2	33.5	21.6	15.9	12.5	11.3	10.8	9.6	9.1	9.6
62.5°	47.1	43.1	29.5	17.6	12.5	9.1	7.9	8.5	7.9	7.4	7.9
65°	41.4	38.0	25.0	13.6	9.6	6.2	5.7	7.4	6.8	6.2	6.8
67.5°	36.9	32.9	21.0	10.2	6.8	3.4	4.0	6.2	6.2	5.7	6.2
70°	31.8	28.4	17.0	7.4	3.4	1.7	2.8	4.5	5.7	5.1	5.7
72.5°	26.1	22.1	13.0	5.1	1.7	0.0	1.7	4.0	5.7	5.1	5.7
75°	20.4	16.5	9.6	2.8	0.0	0.0	0.6	3.4	5.7	5.1	5.7
77.5°	14.8	11.9	5.7	0.6	0.0	0.0	0.6	3.4	5.7	5.1	5.7
80°	9.6	8.5	2.3	0.0	0.0	0.0	0.6	3.4	5.7	5.7	6.2
82.5°	6.2	4.5	0.0	0.0	0.0	0.0	1.1	4.5	6.2	6.8	6.8
85°	2.8	0.0	0.0	0.0	0.0	0.0	2.3	5.7	7.4	7.4	7.4
87.5°	0.0	0.0	0.0	0.0	0.0	1.1	4.0	6.8	8.5	8.5	8.5
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°	2467.0	2467.0	2467.0	2467.0	2467.0	2467.0	2467.0	2467.0	2467.0	2467.0	2467.0
2.5°	2028.9	2064.7	2115.2	2192.9	2255.9	2355.2	2431.2	2535.0	2640.0	2671.8	2721.1
5°	1493.3	1539.3	1653.9	1758.3	1824.1	2034.0	2166.8	2376.2	2564.0	2654.2	2752.3
7.5°	1037.2	1091.6	1179.0	1324.8	1463.3	1634.0	1848.5	2088.0	2363.1	2491.9	2630.4
10°	727.9	796.0	919.2	1038.9	1213.1	1375.3	1587.0	1851.4	2154.9	2307.0	2480.6
12.5°	459.6	520.3	683.1	817.6	1034.9	1223.3	1418.4	1657.9	2009.7	2165.7	2347.8
15°	262.7	313.8	389.8	562.3	803.4	1052.5	1295.9	1573.9	1935.3	2127.7	2324.5
17.5°	195.7	209.4	243.4	341.0	560.6	851.6	1183.0	1548.4	1985.8	2211.6	2436.3
20°	164.5	173.6	189.5	228.1	357.4	655.9	1072.9	1552.9	2149.2	2432.9	2646.3
22.5°	147.5	153.2	166.2	191.2	244.0	477.7	944.1	1579.6	2347.2	2704.7	2950.9
25°	129.4	136.7	148.1	169.6	203.1	331.3	817.0	1639.2	2624.7	3049.7	3281.1
27.5°	115.2	122.0	133.3	153.2	178.2	253.1	668.9	1690.2	2917.5	3396.9	3586.4
30°	101.0	107.8	119.1	135.0	157.7	204.8	509.5	1720.3	3201.7	3657.3	3803.1
32.5°	89.1	94.8	105.5	119.7	138.4	173.6	401.7	1689.1	3419.0	3893.9	3991.5
35°	77.2	84.0	93.0	106.1	122.6	148.1	334.2	1581.3	3605.7	4137.3	4172.5
37.5°	64.7	72.6	82.3	94.2	107.2	136.2	268.4	1462.1	3805.4	4440.9	4383.0
40°	54.5	61.8	70.9	84.0	95.9	124.8	206.5	1335.0	4021.0	4725.7	4612.8
42.5°	44.3	52.2	63.0	74.9	94.8	108.9	160.0	1203.4	4214.5	4973.6	4820.4
45°	35.2	42.0	53.3	68.7	94.2	93.6	123.7	1073.5	4360.3	5150.7	4975.3
47.5°	27.8	33.5	44.8	67.0	86.8	79.4	99.3	992.9	4513.5	5310.1	5093.9
50°	22.1	27.8	38.6	69.8	76.0	68.1	83.4	1006.0	4661.6	5391.2	5142.7
52.5°	18.7	24.4	33.5	55.0	58.4	59.6	73.2	1066.1	4852.8	5478.0	5239.7
55°	16.5	21.6	28.4	38.6	45.4	53.3	67.0	1109.8	5108.7	5664.1	5453.6
57.5°	13.0	18.7	25.5	32.9	37.4	46.5	61.8	1113.2	5340.2	5903.0	5737.9
59°	11.9	17.0	23.8	31.2	33.5	42.0	58.4	1084.3	5348.7	5938.7	5868.4
60°	10.8	16.5	22.7	28.9	31.8	39.7	55.6	1050.8	5271.5	5882.0	5922.3
62.5°	9.1	14.2	19.9	23.3	27.2	32.9	48.2	929.4	4897.6	5625.0	5822.4
65°	7.9	12.5	17.0	19.3	22.7	28.4	42.6	743.8	4484.6	5276.6	5536.5
67.5°	7.4	11.3	14.8	16.5	19.9	26.1	38.0	525.4	3949.5	4834.6	5107.0
70°	6.8	10.8	13.0	15.3	17.6	22.1	32.3	306.4	3042.3	4059.6	4347.2
72.5°	6.8	10.2	11.3	13.0	15.3	19.9	30.1	165.7	2080.0	3096.7	3468.4
75°	6.8	9.6	10.2	11.3	13.6	18.2	26.7	86.8	1344.7	2151.5	2655.3
77.5°	6.8	9.1	10.2	10.8	13.0	15.9	23.3	54.5	895.9	1507.0	1794.6
80°	7.4	9.1	9.6	10.8	12.5	14.8	19.3	36.3	526.5	906.7	1092.2
82.5°	7.9	9.1	10.2	11.3	13.0	14.2	17.0	22.7	242.8	599.7	678.6
85°	8.5	9.6	10.8	11.9	13.6	14.2	15.9	16.5	39.7	270.6	366.0
87.5°	9.1	10.2	11.3	12.5	14.8	14.8	14.8	14.8	13.6	28.9	73.8
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°	2467.0	2467.0	2467.0	2467.0	2467.0	2467.0	2467.0	2467.0	2467.0	2467.0
2.5°	2783.6	2847.7	2892.5	2903.8	2871.5	2856.7	2815.9	2752.3	2713.8	2712.1
5°	2933.3	3083.7	3188.1	3205.7	3143.3	3037.7	2912.4	2750.6	2655.9	2627.5
7.5°	2907.8	3171.1	3339.0	3363.4	3258.5	3057.0	2814.2	2553.8	2450.5	2406.8
10°	2802.8	3124.0	3364.0	3402.6	3262.4	2978.7	2670.1	2379.6	2251.4	2217.9
12.5°	2713.2	3037.7	3251.1	3304.4	3198.3	2915.2	2583.8	2267.8	2130.5	2099.3
15°	2674.1	2935.6	3066.1	3093.3	3075.8	2875.5	2574.8	2250.8	2093.6	2059.6
17.5°	2713.2	2848.8	2865.3	2893.1	2932.2	2871.5	2662.1	2343.3	2173.6	2131.6
20°	2815.9	2773.3	2705.3	2717.2	2806.8	2888.0	2817.6	2548.1	2341.6	2296.7
22.5°	2990.6	2754.6	2600.3	2590.1	2703.6	2943.0	3045.7	2825.5	2586.1	2541.9
25°	3205.1	2801.7	2561.7	2539.6	2663.3	3023.6	3293.6	3165.4	2903.8	2836.3
27.5°	3438.9	2899.3	2561.7	2540.2	2659.9	3095.0	3505.8	3466.1	3232.9	3159.2
30°	3567.1	2979.9	2598.6	2574.2	2701.9	3136.5	3619.3	3733.3	3480.3	3388.9
32.5°	3681.7	3091.6	2670.6	2624.7	2789.8	3197.7	3720.9	3960.3	3677.2	3615.9
35°	3787.2	3211.4	2769.9	2716.6	2905.5	3281.7	3833.2	4198.6	3951.2	3858.7
37.5°	3903.6	3350.4	2924.8	2879.4	3099.0	3445.1	3966.5	4511.8	4220.7	4104.4
40°	4030.1	3511.5	3179.6	3160.3	3406.5	3630.1	4135.0	4846.0	4528.2	4396.0
42.5°	4158.9	3697.0	3491.6	3523.4	3754.9	3889.4	4308.1	5103.0	4780.2	4634.3
45°	4275.8	3934.2	3897.3	4054.5	4161.1	4142.4	4436.3	5284.0	4999.7	4860.2
47.5°	4423.3	4279.7	4388.1	4630.4	4633.2	4417.6	4533.3	5432.1	5188.7	5049.1
50°	4588.4	4687.7	5021.9	5268.7	5202.3	4688.2	4646.8	5607.4	5383.8	5272.1
52.5°	4779.6	5144.4	5607.4	5881.4	5726.5	4983.3	4835.8	5796.9	5693.6	5586.4
55°	5002.0	5455.9	6191.2	6409.7	6253.6	5349.8	5122.9	6053.9	6043.7	5970.5
57.5°	5253.4	5785.0	6529.4	6825.0	6686.0	5779.9	5524.0	6296.2	6257.6	6216.8
59°	5451.9	5954.1	6678.6	6985.0	6901.0	6081.2	5793.5	6447.1	6307.0	6245.7
60°	5572.2	6068.7	6733.6	7006.5	6987.3	6260.4	5964.3	6520.9	6306.4	6221.3
62.5°	5929.1	6269.0	6712.6	6910.7	6986.1	6604.3	6465.3	6602.0	6189.5	6064.7
65°	6056.2	6202.6	6364.8	6340.4	6405.1	6586.7	6785.3	6512.9	5939.9	5762.3
67.5°	5808.8	5474.6	5531.9	5369.1	5337.3	5855.9	6655.3	6077.2	5451.4	5234.1
70°	4896.5	4194.1	4165.1	4240.0	4034.6	4741.0	5976.2	5238.0	4645.1	4398.9
72.5°	3854.2	2964.0	2720.0	2995.8	2989.5	3617.0	4964.6	3716.9	3138.2	3117.2
75°	3030.9	2063.6	1811.1	1855.9	1942.1	2618.4	3954.1	2360.3	1932.5	1761.1
77.5°	2034.6	1462.1	1364.0	1308.9	1402.0	1681.1	2501.6	1280.0	1083.7	1026.4
80°	1172.8	1062.1	1206.2	1095.0	1145.0	1059.3	1244.3	587.2	487.4	527.7
82.5°	763.1	604.8	644.5	478.9	654.8	660.4	399.4	173.6	147.0	156.0
85°	477.2	283.7	159.4	113.5	225.8	415.3	124.8	10.8	12.5	10.8
87.5°	123.7	47.1	19.9	29.5	36.3	32.3	28.9	1.7	0.6	1.1
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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