

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: P527067

Luminaire Tested: **GALN-SA2A-740-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-740-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5084 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

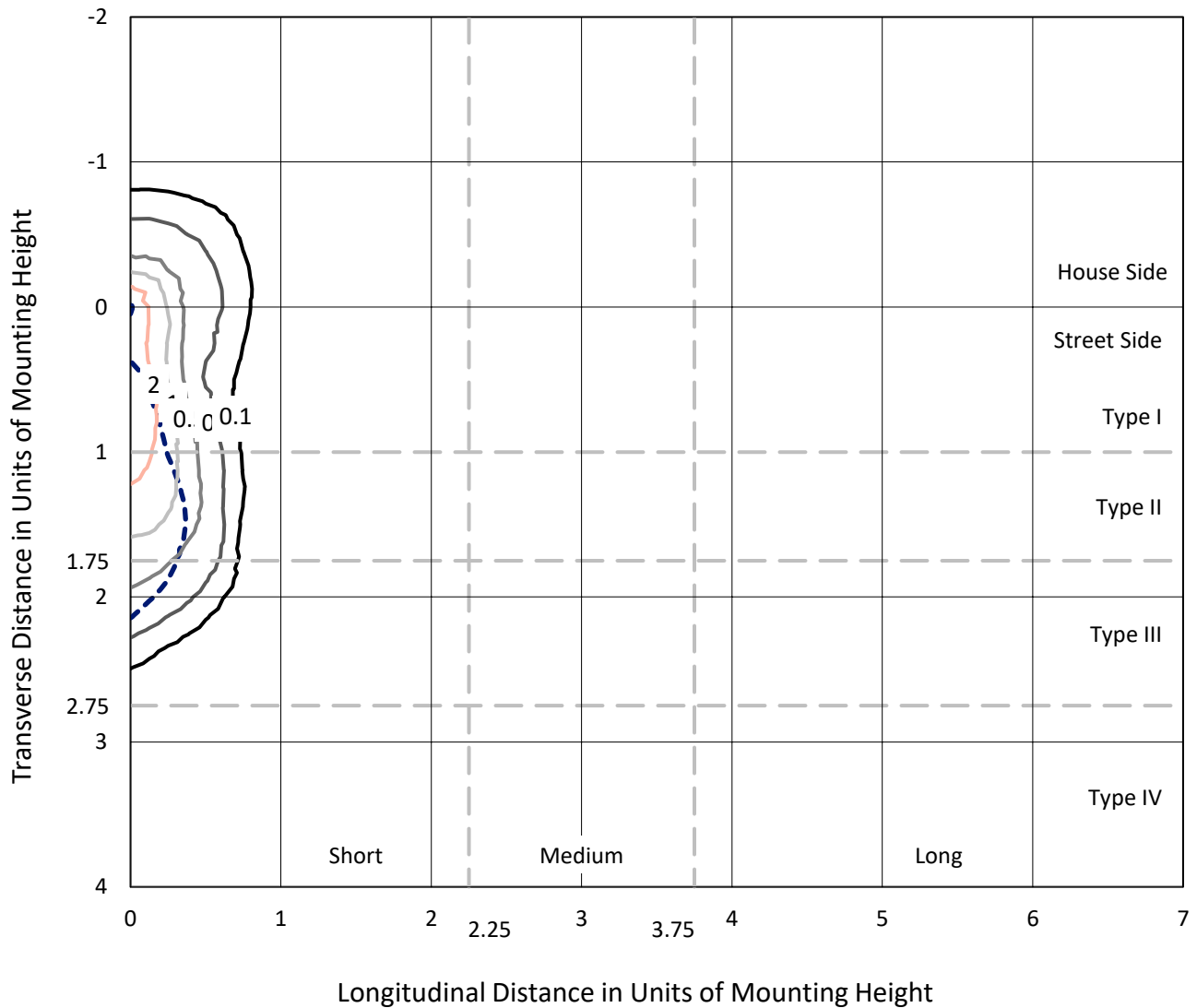
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

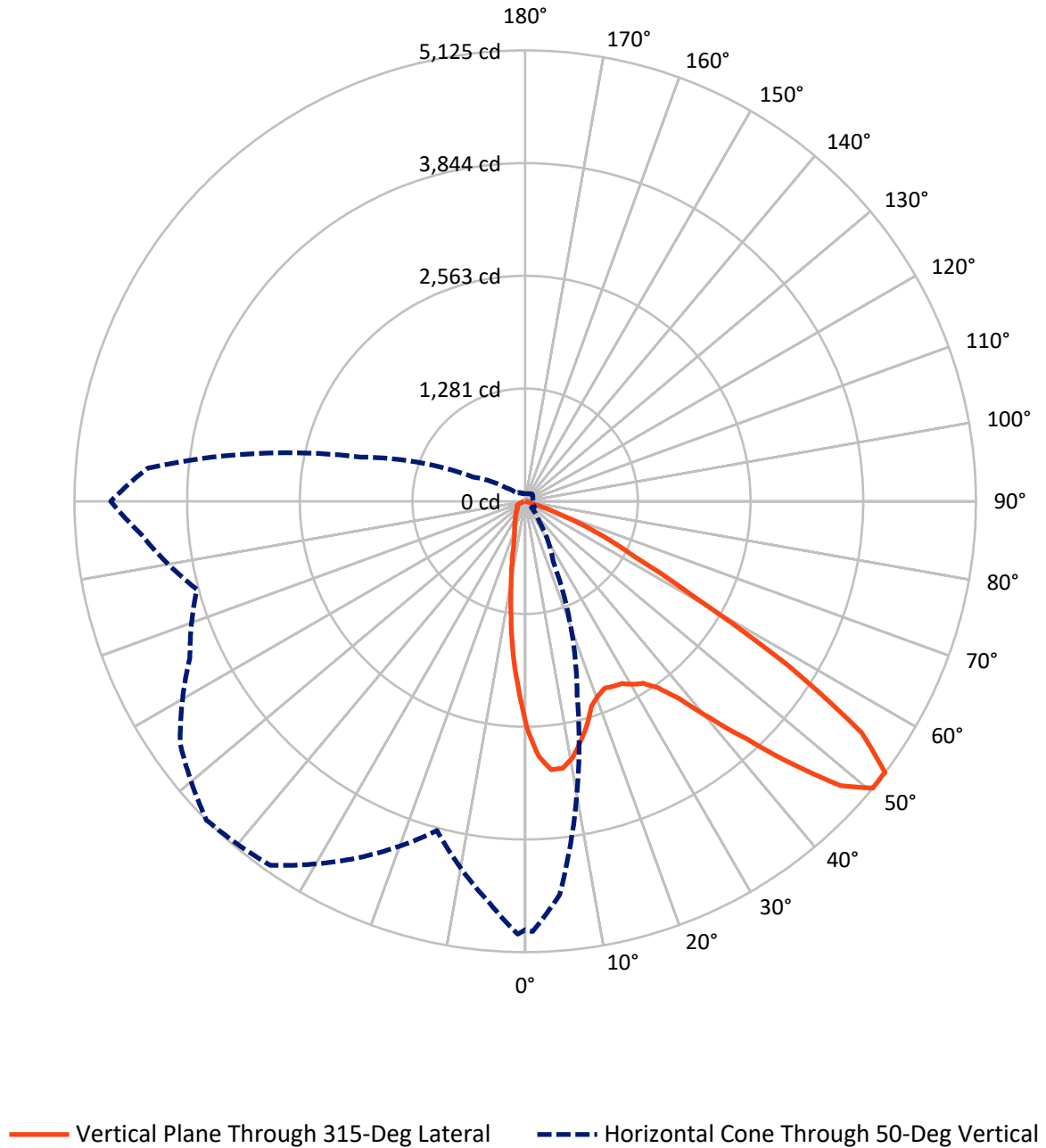
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1018.3	0.0	1018.3
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	4065.7	0.0	4065.7
	% Fixture	80.0	0.0	80.0
Total	Lumens	5084.0	0.0	5084.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.9	3.7
10°-20°	373.5	7.3
20°-30°	561.1	11.0
30°-40°	842.2	16.6
40°-50°	1183.6	23.3
50°-60°	1276.8	25.1
60°-70°	592.8	11.7
70°-80°	55.8	1.1
80°-90°	10.3	0.2
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°	5084.0	100.0
0°-180°	5084.0	100.0

Coefficient of Utilization



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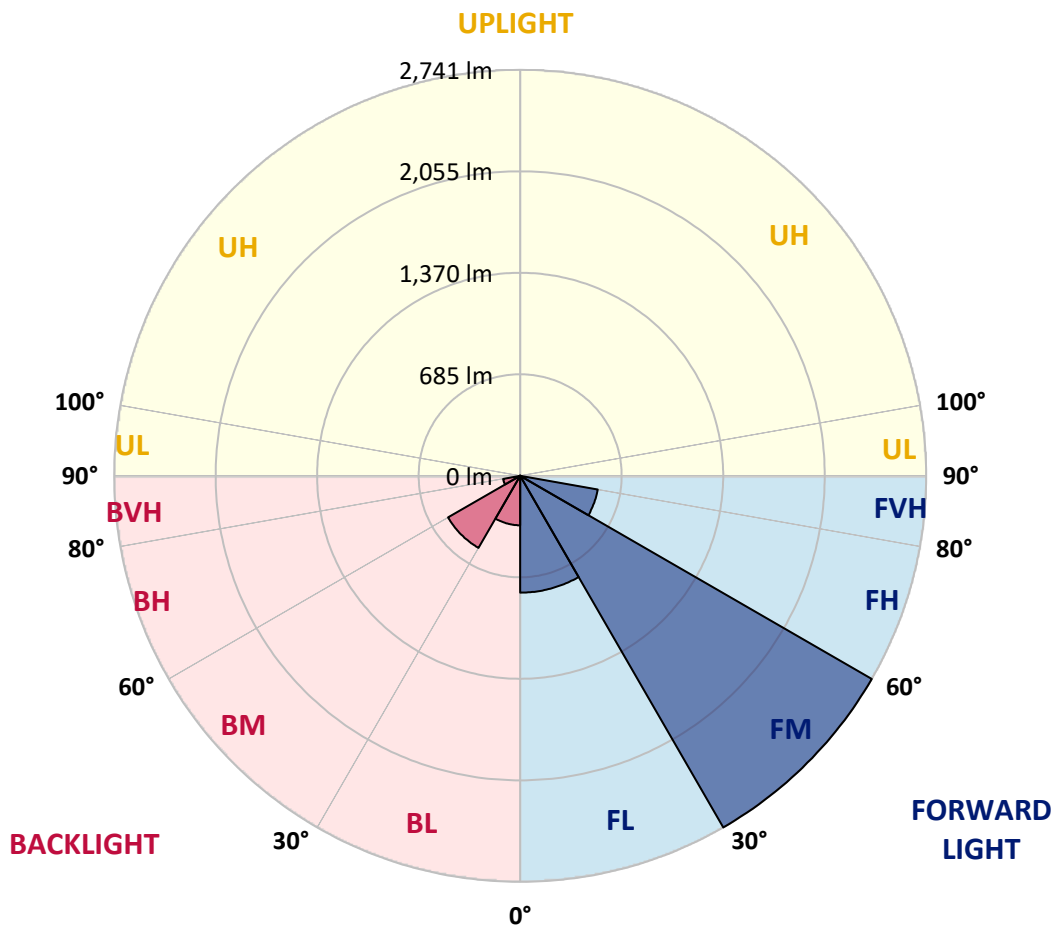
CATALOG NUMBER: GALN-SA2A-740-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	788.7	15.5			
FM (30°-60°)	2740.7	53.9			
FH (60°-80°)	531.6	10.5			G0/660
FVH (80°-90°)	4.6	0.1			G0/10
BL (0°-30°)	333.8	6.6	B1/500		
BM (30°-60°)	562.0	11.1	B1/1000		
BH (60°-80°)	116.9	2.3	B1/500		G1/500
BVH (80°-90°)	5.7	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2
2.5°	2680.1	2638.8	2586.3	2542.9	2478.4	2348.2	2312.9	2270.6	2235.3	2187.9	2121.3
5°	2437.0	2423.9	2399.7	2236.3	2118.3	1960.9	1831.8	1777.3	1705.7	1647.2	1604.8
7.5°	2251.4	2199.0	2122.3	1957.9	1769.3	1600.8	1457.6	1373.8	1279.0	1246.7	1189.3
10°	2052.7	2064.8	1951.8	1720.8	1492.9	1356.7	1267.9	1187.2	1101.5	1045.0	963.3
12.5°	1989.1	1949.8	1863.1	1577.6	1382.9	1255.8	1147.9	1048.0	957.3	866.5	787.8
15°	2030.5	1970.0	1848.9	1547.3	1298.2	1139.8	1004.7	869.5	785.8	669.8	588.1
17.5°	2178.8	2130.4	1968.0	1579.6	1254.8	1028.9	828.1	688.9	560.8	455.9	414.6
20°	2425.9	2357.3	2153.6	1621.0	1190.3	894.7	671.8	500.3	379.3	334.9	311.7
22.5°	2668.0	2630.7	2373.5	1700.7	1132.8	775.7	504.3	336.9	283.4	275.4	260.2
25°	3129.0	3017.0	2709.4	1844.9	1088.4	663.7	380.3	271.3	240.1	234.0	236.0
27.5°	3403.3	3309.5	3020.0	1940.7	1039.0	578.0	321.8	249.1	228.0	214.9	209.8
30°	3666.6	3557.7	3174.4	1997.2	933.0	487.2	285.5	239.1	234.0	214.9	208.8
32.5°	3869.4	3762.4	3397.3	2082.0	889.7	428.7	235.0	186.6	173.5	171.5	189.6
35°	4180.0	4066.1	3587.9	2128.4	856.4	398.4	203.8	166.4	151.3	145.3	146.3
37.5°	4469.5	4391.9	3764.5	2146.5	821.1	389.4	182.6	149.3	136.2	132.1	131.1
40°	4711.6	4538.1	3931.9	2165.7	805.9	372.2	169.5	136.2	127.1	121.0	121.0
42.5°	4822.6	4646.1	4119.5	2154.6	801.9	345.0	169.5	125.1	118.0	112.0	111.0
45°	4798.4	4726.8	4203.2	2149.5	801.9	317.7	154.3	122.1	112.0	103.9	101.9
47.5°	4860.9	4767.1	4308.1	2170.7	785.8	298.6	130.1	128.1	105.9	95.8	93.8
50°	4872.0	4890.2	4490.7	2280.7	750.5	274.4	101.9	126.1	101.9	86.7	84.7
52°	4944.6	4831.7	4546.2	2339.2	713.1	256.2	85.7	107.9	97.8	80.7	78.7
52.5°	4844.8	4918.4	4559.3	2360.4	717.2	244.1	82.7	105.9	95.8	80.7	75.7
55°	4732.8	4803.4	4505.8	2405.7	657.7	191.7	64.6	76.7	86.7	70.6	67.6
57.5°	4113.5	4185.1	3915.8	2203.0	535.6	135.2	53.5	57.5	76.7	65.6	62.5
60°	3656.5	3605.1	3286.3	1837.8	380.3	75.7	42.4	44.4	83.7	60.5	59.5
62.5°	3341.8	3231.9	2746.7	1419.2	232.0	50.4	33.3	34.3	64.6	56.5	56.5
65°	2472.3	2349.3	1824.7	858.4	114.0	35.3	25.2	27.2	40.3	48.4	48.4
67.5°	1411.2	1363.8	881.6	387.3	47.4	22.2	19.2	21.2	31.3	39.3	37.3
70°	648.6	582.0	338.9	81.7	22.2	15.1	15.1	17.1	25.2	29.3	27.2
72.5°	189.6	179.5	82.7	13.1	9.1	9.1	10.1	13.1	19.2	22.2	20.2
75°	14.1	9.1	6.1	4.0	4.0	6.1	8.1	13.1	19.2	21.2	17.1
77.5°	1.0	2.0	1.0	1.0	3.0	6.1	9.1	16.1	25.2	26.2	19.2
80°	1.0	1.0	0.0	1.0	3.0	6.1	10.1	18.2	28.2	30.3	16.1
82.5°	0.0	0.0	0.0	1.0	4.0	8.1	12.1	19.2	26.2	32.3	17.1
85°	0.0	0.0	0.0	1.0	6.1	11.1	14.1	5.0	3.0	0.0	0.0
87.5°	0.0	0.0	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°	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2
2.5°	2168.7	2142.5	2132.4	2141.5	2138.4	2135.4	2190.9	2178.8	2176.8	2194.9	2190.9
5°	1628.0	1581.6	1708.7	1657.3	1710.7	1743.0	1749.1	1752.1	1789.4	1750.1	1801.5
7.5°	1160.0	1172.1	1171.1	1205.4	1266.9	1321.4	1353.7	1328.5	1326.4	1321.4	1299.2
10°	927.0	905.8	901.8	893.7	912.9	959.3	998.6	967.3	945.1	975.4	966.3
12.5°	757.5	728.3	712.1	679.9	680.9	712.1	712.1	712.1	734.3	751.5	764.6
15°	581.0	556.8	556.8	524.5	517.5	518.5	534.6	536.6	571.9	582.0	587.1
17.5°	406.5	393.4	408.5	421.6	413.6	415.6	421.6	423.7	428.7	424.7	434.7
20°	312.7	310.7	314.7	337.9	355.1	365.1	358.1	348.0	341.9	327.8	327.8
22.5°	265.3	269.3	276.4	295.5	317.7	323.8	315.7	292.5	274.4	272.3	273.4
25°	236.0	240.1	251.2	263.3	275.4	285.5	277.4	260.2	250.2	241.1	241.1
27.5°	217.9	219.9	225.9	235.0	245.1	253.2	250.2	241.1	230.0	225.9	216.9
30°	203.8	206.8	213.8	215.9	224.9	229.0	223.9	221.9	214.9	209.8	206.8
32.5°	196.7	195.7	200.7	202.7	203.8	206.8	200.7	203.8	202.7	194.7	191.7
35°	148.3	156.3	169.5	180.6	183.6	187.6	186.6	182.6	171.5	162.4	151.3
37.5°	133.1	138.2	145.3	154.3	166.4	171.5	169.5	159.4	146.3	140.2	138.2
40°	123.1	126.1	132.1	138.2	150.3	159.4	152.3	143.2	133.1	128.1	125.1
42.5°	114.0	115.0	118.0	124.1	133.1	147.3	135.2	123.1	119.0	116.0	114.0
45°	103.9	103.9	107.9	111.0	121.0	134.2	122.1	111.0	108.9	106.9	105.9
47.5°	95.8	96.8	98.9	102.9	111.0	120.0	112.0	102.9	97.8	96.8	94.8
50°	85.7	86.7	90.8	94.8	104.9	109.9	104.9	94.8	89.8	86.7	86.7
52°	77.7	80.7	84.7	92.8	99.9	107.9	101.9	90.8	84.7	81.7	79.7
52.5°	76.7	78.7	82.7	91.8	99.9	106.9	100.9	89.8	82.7	80.7	78.7
55°	68.6	71.6	78.7	89.8	98.9	106.9	98.9	88.8	78.7	73.6	71.6
57.5°	65.6	67.6	76.7	90.8	97.8	106.9	98.9	88.8	78.7	69.6	67.6
60°	62.5	66.6	76.7	87.8	96.8	107.9	99.9	87.8	76.7	65.6	65.6
62.5°	59.5	62.5	75.7	85.7	92.8	103.9	95.8	85.7	73.6	62.5	61.5
65°	51.4	56.5	66.6	71.6	79.7	89.8	81.7	74.6	64.6	55.5	54.5
67.5°	39.3	41.4	49.4	55.5	60.5	69.6	65.6	56.5	49.4	42.4	42.4
70°	27.2	29.3	35.3	38.3	43.4	48.4	45.4	38.3	33.3	29.3	28.2
72.5°	19.2	20.2	22.2	24.2	26.2	28.2	27.2	22.2	19.2	18.2	17.1
75°	15.1	17.1	18.2	17.1	16.1	15.1	15.1	13.1	11.1	10.1	10.1
77.5°	15.1	16.1	15.1	13.1	11.1	10.1	9.1	8.1	6.1	5.0	6.1
80°	13.1	13.1	13.1	11.1	10.1	9.1	8.1	7.1	6.1	5.0	5.0
82.5°	14.1	14.1	13.1	11.1	11.1	9.1	9.1	8.1	7.1	5.0	5.0
85°	0.0	0.0	0.0	2.0	5.0	9.1	9.1	8.1	7.1	6.1	6.1
87.5°	0.0	0.0	0.0	0.0	1.0	2.0	4.0	5.0	6.1	6.1	6.1
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°	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2
2.5°	2227.2	2265.5	2338.2	2410.8	2455.2	2507.6	2602.4	2652.9	2718.4	2750.7	2814.3
5°	1794.5	1885.3	1917.5	2000.2	2089.0	2177.8	2319.0	2474.3	2603.4	2692.2	2807.2
7.5°	1309.3	1330.5	1455.5	1511.0	1656.3	1817.7	2010.3	2206.0	2369.4	2514.7	2602.4
10°	981.5	1059.1	1137.8	1243.7	1360.7	1527.2	1711.8	1927.6	2139.4	2284.7	2395.7
12.5°	788.8	850.3	955.2	1069.2	1213.5	1323.4	1509.0	1722.9	1997.2	2139.4	2285.7
15°	597.1	675.8	794.9	912.9	1065.2	1181.2	1368.8	1638.1	1991.2	2186.9	2312.9
17.5°	442.8	496.3	603.2	735.3	890.7	1054.1	1307.3	1629.0	2058.8	2291.8	2421.9
20°	338.9	357.1	424.7	542.7	711.1	925.0	1207.4	1668.4	2258.5	2547.0	2679.1
22.5°	274.4	282.4	308.7	390.4	553.8	812.0	1160.0	1695.6	2483.4	2852.6	3029.1
25°	239.1	237.0	254.2	289.5	432.7	706.1	1099.5	1798.5	2758.8	3211.7	3370.1
27.5°	217.9	217.9	225.9	251.2	359.1	637.5	1061.1	1872.1	3036.2	3527.4	3613.2
30°	206.8	208.8	232.0	240.1	298.6	555.8	997.6	1946.8	3301.5	3729.2	3847.2
32.5°	191.7	183.6	178.5	198.7	251.2	482.2	934.1	1978.1	3516.3	3976.3	4077.2
35°	147.3	143.2	149.3	164.4	215.9	419.6	863.4	2013.4	3763.4	4262.8	4282.9
37.5°	133.1	132.1	136.2	149.3	181.6	365.1	813.0	2004.3	3952.1	4499.8	4445.3
40°	123.1	123.1	126.1	137.2	162.4	326.8	760.6	1996.2	4134.6	4766.1	4606.7
42.5°	115.0	115.0	120.0	127.1	154.3	301.6	721.2	1985.1	4288.0	4929.5	4701.5
45°	103.9	106.9	115.0	122.1	156.3	284.5	692.0	1942.7	4340.4	4927.5	4656.1
47.5°	95.8	99.9	107.9	118.0	141.2	279.4	671.8	1905.4	4322.3	4806.4	4513.9
50°	86.7	91.8	102.9	120.0	120.0	269.3	650.6	1938.7	4309.2	4712.6	4377.7
52°	80.7	84.7	98.9	117.0	104.9	248.1	637.5	2003.3	4362.6	4700.5	4317.2
52.5°	79.7	82.7	95.8	115.0	99.9	244.1	628.4	2018.4	4379.8	4670.3	4358.6
55°	70.6	74.6	87.8	89.8	81.7	200.7	599.2	2052.7	4295.0	4610.8	4319.2
57.5°	66.6	68.6	77.7	73.6	70.6	151.3	515.4	1999.2	3814.9	4095.3	4018.6
60°	61.5	63.5	72.6	57.5	59.5	105.9	387.3	1736.0	3063.4	3412.4	3550.6
62.5°	59.5	58.5	68.6	46.4	50.4	76.7	273.4	1411.2	2360.4	2809.2	3048.3
65°	52.5	51.4	49.4	39.3	43.4	59.5	163.4	920.9	1663.3	2125.3	2256.5
67.5°	40.3	42.4	36.3	31.3	36.3	46.4	90.8	412.6	872.5	1275.0	1380.9
70°	28.2	30.3	29.3	27.2	32.3	38.3	52.5	141.2	361.1	669.8	738.4
72.5°	17.1	21.2	22.2	23.2	28.2	33.3	37.3	45.4	95.8	237.0	294.5
75°	10.1	14.1	17.1	20.2	23.2	28.2	31.3	32.3	33.3	44.4	71.6
77.5°	7.1	10.1	15.1	19.2	23.2	28.2	33.3	35.3	33.3	31.3	33.3
80°	6.1	10.1	14.1	18.2	24.2	29.3	33.3	33.3	32.3	28.2	30.3
82.5°	6.1	10.1	15.1	19.2	23.2	28.2	32.3	33.3	30.3	28.2	29.3
85°	7.1	11.1	16.1	20.2	25.2	23.2	21.2	17.1	16.1	13.1	14.1
87.5°	7.1	10.1	10.1	11.1	12.1	12.1	12.1	11.1	9.1	8.1	8.1
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°	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2	2578.2
2.5°	2817.3	2898.0	2895.0	2897.0	2884.9	2803.2	2763.8	2664.0	2692.2	2680.1
5°	2925.2	3004.9	3073.5	3065.4	2972.6	2861.7	2697.3	2541.9	2499.6	2437.0
7.5°	2817.3	3008.9	3072.5	3063.4	2926.2	2784.0	2521.7	2366.4	2292.8	2251.4
10°	2645.8	2867.7	2946.4	2962.5	2869.7	2653.9	2412.8	2163.7	2124.3	2052.7
12.5°	2548.0	2709.4	2757.8	2801.2	2768.9	2607.5	2330.1	2091.0	2036.6	1989.1
15°	2468.3	2564.1	2584.3	2633.7	2652.9	2566.1	2373.5	2169.7	2035.6	2030.5
17.5°	2541.9	2502.6	2428.9	2444.1	2504.6	2567.1	2485.4	2325.0	2194.9	2178.8
20°	2664.0	2490.5	2324.0	2361.4	2411.8	2603.4	2654.9	2541.9	2467.3	2425.9
22.5°	2804.2	2511.7	2290.8	2308.9	2404.7	2685.2	2929.3	2866.7	2727.5	2668.0
25°	3063.4	2570.2	2317.0	2329.1	2460.2	2799.1	3177.4	3223.8	3141.1	3129.0
27.5°	3316.6	2721.5	2374.5	2347.2	2488.5	2910.1	3327.7	3576.8	3431.6	3403.3
30°	3445.7	2844.5	2460.2	2413.8	2605.5	2977.7	3418.5	3806.8	3679.7	3666.6
32.5°	3643.4	2956.5	2526.8	2467.3	2671.0	3061.4	3587.9	4058.0	3934.9	3869.4
35°	3726.1	3078.5	2673.0	2603.4	2858.6	3178.4	3674.7	4281.9	4243.6	4180.0
37.5°	3885.5	3209.7	2845.5	2841.5	3085.6	3330.7	3831.0	4586.5	4579.5	4469.5
40°	3898.6	3352.9	3117.9	3245.0	3436.6	3596.0	3968.2	4671.3	4786.3	4711.6
42.5°	3918.8	3604.1	3588.9	3693.8	3858.3	3824.0	3973.3	4691.4	4867.0	4822.6
45°	3927.9	3855.2	4068.1	4261.7	4330.3	4122.5	3925.8	4653.1	4909.3	4798.4
47.5°	3855.2	4071.1	4455.4	4829.6	4849.8	4306.1	3905.7	4613.8	4934.5	4860.9
50°	3865.3	4206.3	4790.3	5125.2	5051.6	4468.5	3874.4	4589.6	4921.4	4872.0
52°	3841.1	4209.3	4837.7	5119.1	5067.7	4378.8	3820.9	4496.8	4909.3	4944.6
52.5°	3868.4	4191.1	4788.3	5123.2	5056.6	4423.1	3813.9	4548.2	4916.4	4844.8
55°	3774.5	3975.3	4498.8	4641.0	4630.9	4014.6	3597.0	4377.7	4731.8	4732.8
57.5°	3411.4	3445.7	3528.4	3525.4	3479.0	3156.2	3076.5	4025.7	4218.4	4113.5
60°	3005.9	2522.8	2299.8	2209.0	2157.6	2105.2	2721.5	3682.8	3700.9	3656.5
62.5°	2597.4	1749.1	1452.5	1427.3	1439.4	1631.1	2630.7	3546.6	3437.6	3341.8
65°	2096.1	1275.0	1055.1	1021.8	1139.8	1346.6	2129.4	2719.4	2552.0	2472.3
67.5°	1316.3	930.0	713.1	650.6	792.8	927.0	1399.1	1708.7	1521.1	1411.2
70°	780.7	519.5	322.8	289.5	325.8	494.3	783.8	852.3	705.1	648.6
72.5°	307.7	190.6	89.8	76.7	79.7	173.5	288.5	281.4	212.8	189.6
75°	82.7	57.5	31.3	25.2	21.2	32.3	46.4	30.3	11.1	14.1
77.5°	38.3	34.3	27.2	21.2	16.1	12.1	6.1	2.0	2.0	1.0
80°	33.3	29.3	25.2	21.2	16.1	10.1	5.0	1.0	1.0	1.0
82.5°	31.3	27.2	23.2	19.2	15.1	10.1	5.0	1.0	0.0	0.0
85°	13.1	17.1	19.2	18.2	16.1	10.1	5.0	1.0	0.0	0.0
87.5°	7.1	6.1	5.0	4.0	3.0	2.0	2.0	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

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