

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: P451392

Luminaire Tested: **GALN-SA2B-730-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-730-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8983 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

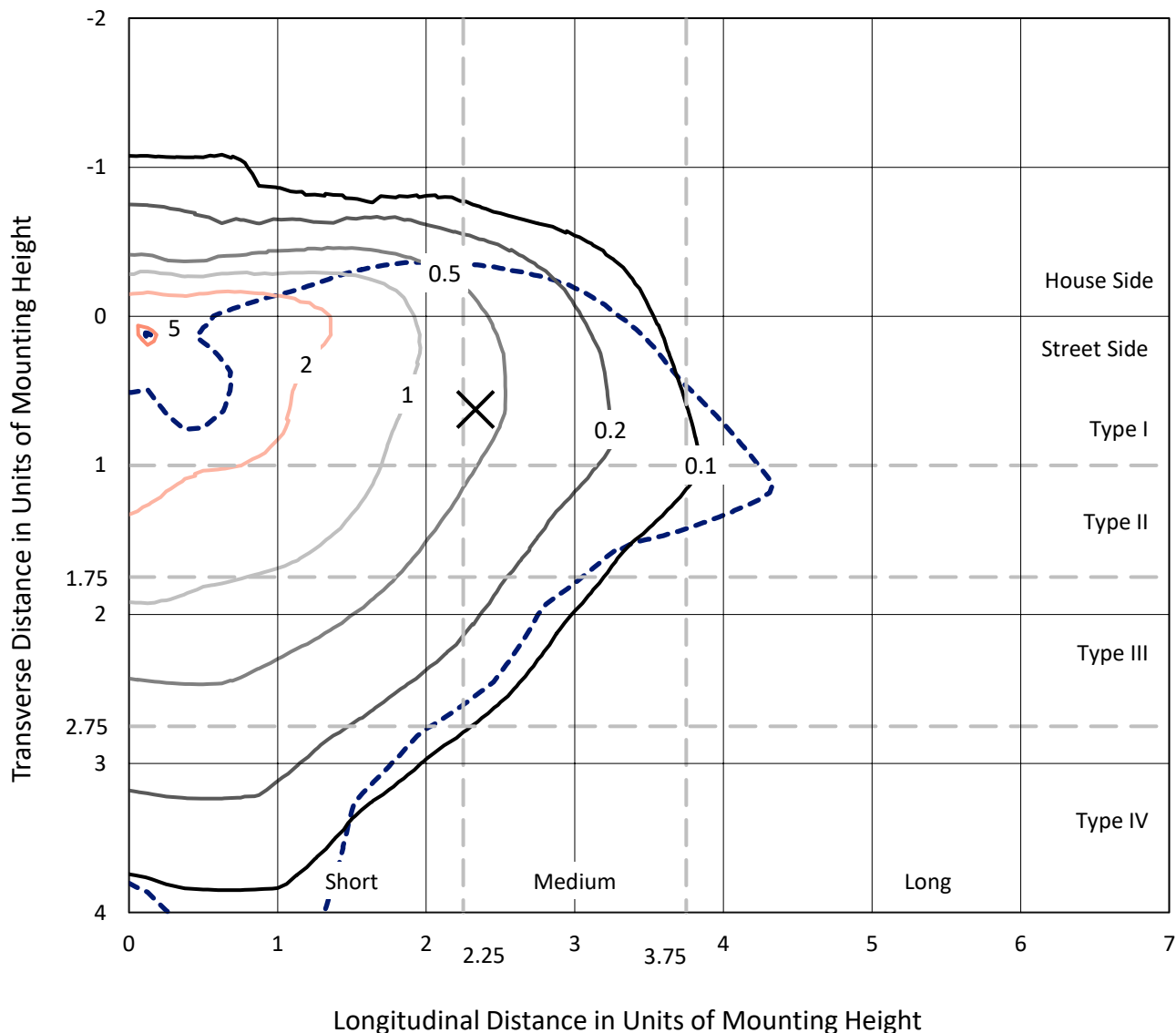
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

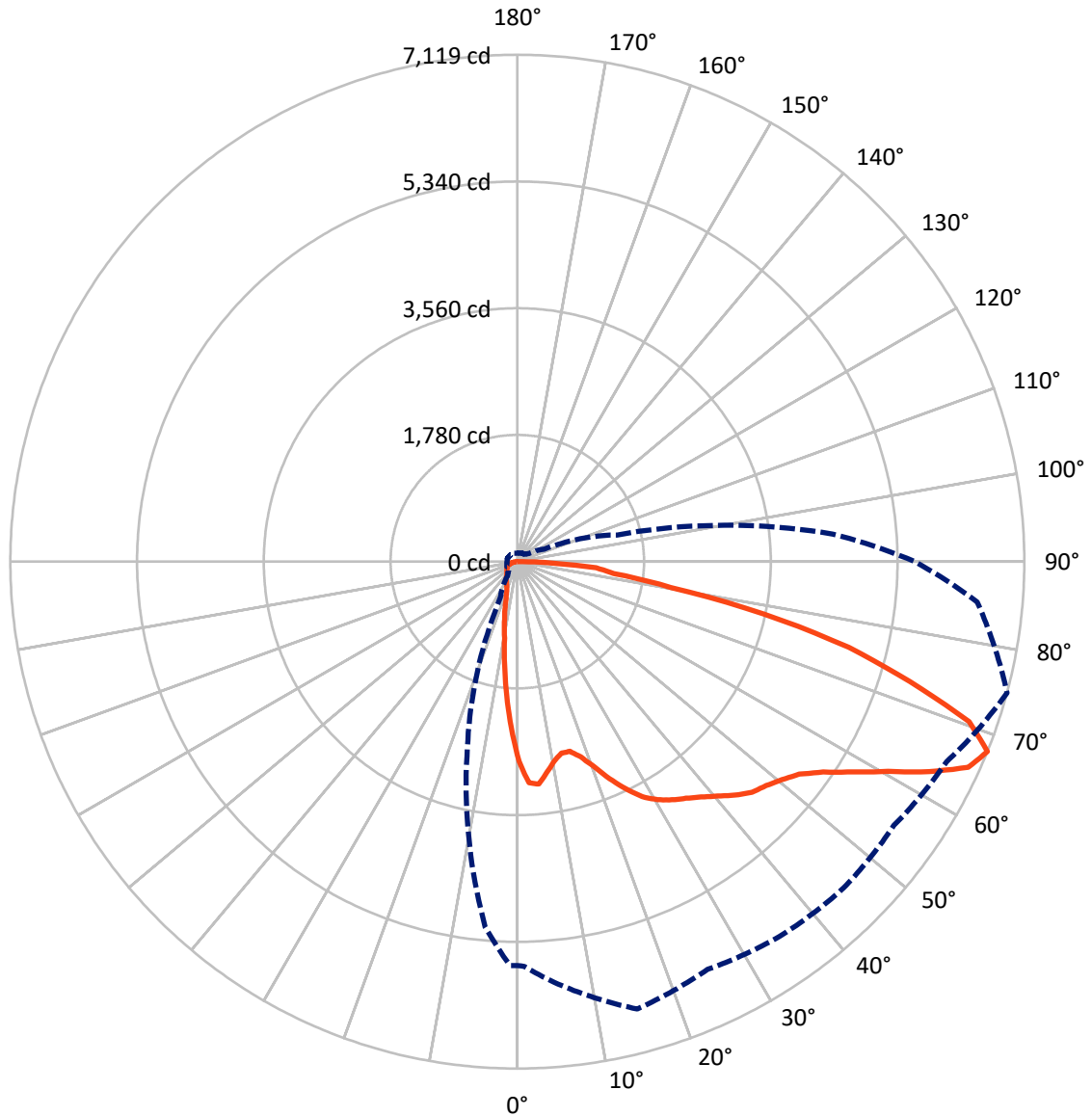
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1518.3	0.0	1518.3
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	7464.7	0.0	7464.7
	% Fixture	83.1	0.0	83.1
Total	Lumens	8983.0	0.0	8983.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.9	2.4
10°-20°	443.9	4.9
20°-30°	638.8	7.1
30°-40°	920.1	10.2
40°-50°	1292.5	14.4
50°-60°	1802.6	20.1
60°-70°	2143.1	23.9
70°-80°	1262.2	14.1
80°-90°	266.9	3.0
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°	8983.0	100.0
0°-180°	8983.0	100.0

Coefficient of Utilization



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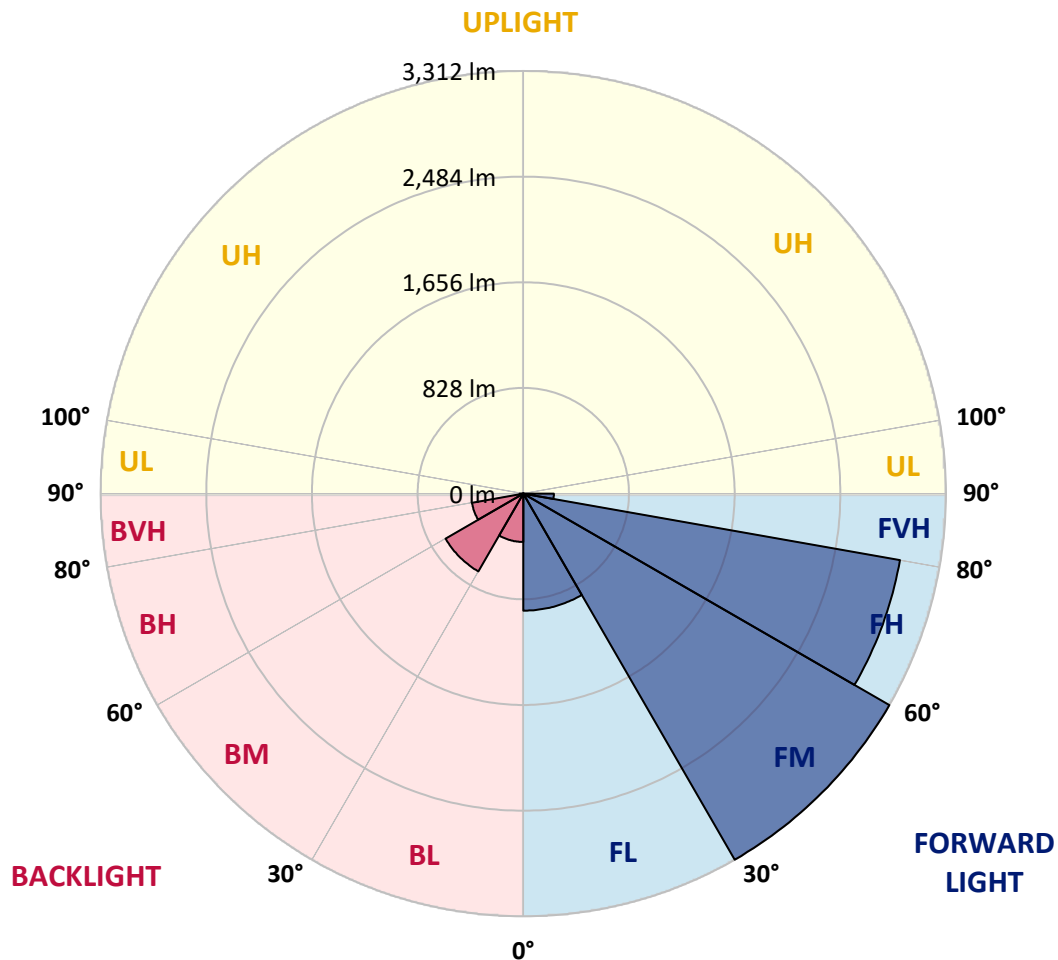
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	916.9	10.2			
FM	(30°-60°)	3311.7	36.9			
FH	(60°-80°)	2996.8	33.4			G2/5000
FVH	(80°-90°)	239.3	2.7			G3/500
BL	(0°-30°)	378.7	4.2	B1/500		
BM	(30°-60°)	703.4	7.8	B1/1000		
BH	(60°-80°)	408.6	4.5	B1/500		G1/500
BVH	(80°-90°)	27.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5
2.5°	3026.0	3030.0	3055.9	3131.4	3183.2	3202.2	3215.5	3190.7	3166.5	3107.8	3019.1
5°	3016.8	3040.4	3107.8	3277.1	3410.8	3468.4	3485.7	3411.4	3288.7	3137.7	2956.3
7.5°	2840.5	2872.2	2975.9	3259.9	3495.5	3630.2	3612.4	3478.2	3257.0	2988.0	2734.5
10°	2631.4	2666.5	2791.5	3134.8	3438.4	3623.9	3623.9	3460.3	3166.5	2846.8	2554.8
12.5°	2465.5	2502.3	2645.2	3006.4	3319.8	3495.5	3524.8	3384.3	3101.4	2757.5	2436.7
15°	2410.8	2446.5	2600.3	2928.6	3194.2	3301.3	3311.1	3265.0	3069.8	2763.9	2431.5
17.5°	2478.7	2524.8	2680.3	2951.7	3079.0	3085.3	3092.8	3129.1	3073.2	2879.7	2536.3
20°	2675.2	2724.7	2887.1	3026.0	2978.2	2912.5	2916.5	3009.8	3114.1	3070.9	2786.9
22.5°	2958.6	3001.8	3168.3	3156.7	2935.5	2800.2	2771.9	2902.1	3174.6	3309.4	3053.6
25°	3264.5	3315.2	3506.4	3350.9	2947.6	2733.3	2715.5	2838.8	3237.4	3532.3	3361.8
27.5°	3614.7	3664.2	3815.2	3546.7	3011.0	2728.2	2706.8	2833.0	3293.8	3738.5	3656.2
30°	3875.1	3920.6	4023.1	3711.5	3088.8	2762.7	2736.2	2878.5	3342.2	3879.7	3943.0
32.5°	4079.6	4126.8	4182.7	3814.0	3191.3	2825.5	2776.5	2961.5	3405.6	3987.4	4155.6
35°	4292.7	4348.6	4344.5	3905.0	3286.9	2898.1	2850.3	3081.3	3505.2	4081.3	4425.2
37.5°	4562.9	4585.3	4556.5	3986.8	3401.6	3028.9	3002.4	3259.3	3647.0	4194.8	4740.3
40°	4837.1	4882.0	4734.0	4085.9	3541.0	3274.8	3271.9	3522.5	3815.2	4327.8	5045.6
42.5°	5072.1	5110.1	4899.9	4172.3	3709.7	3574.9	3596.8	3875.6	4035.8	4482.2	5291.0
45°	5248.9	5282.9	5053.1	4255.8	3932.1	3921.7	4050.8	4254.1	4314.0	4621.1	5435.0
47.5°	5399.3	5432.1	5159.7	4382.6	4206.9	4335.9	4560.6	4648.7	4551.9	4700.5	5596.3
50°	5526.0	5535.8	5232.8	4533.5	4547.9	4843.4	5061.2	5118.2	4787.0	4814.6	5736.3
52.5°	5657.9	5645.3	5359.0	4723.6	4916.6	5325.0	5483.4	5542.7	5012.2	4955.2	5940.2
55°	5953.4	5965.5	5641.8	4963.2	5289.3	5797.9	6006.4	5949.4	5261.6	5213.8	6199.4
57.5°	6310.6	6300.2	6039.9	5338.2	5668.9	6238.0	6393.5	6302.0	5594.6	5569.2	6462.1
60°	6449.4	6463.2	6372.8	5741.5	6043.3	6623.4	6782.4	6640.1	5993.8	5982.2	6660.3
62.5°	6310.0	6387.8	6448.8	6100.3	6362.4	6906.8	7064.6	6902.2	6410.3	6493.8	6799.1
65°	6032.4	6049.1	6257.0	6404.5	6516.2	6953.5	7035.8	6949.4	6758.2	6959.8	6792.7
67.5°	5671.8	5686.2	5929.8	6504.1	6318.1	6423.5	6481.1	6455.8	6650.5	7119.4	6480.0
70°	5328.4	5316.9	5574.4	6250.1	5500.1	5340.0	5387.8	5308.3	5738.6	6729.4	5866.5
72.5°	4660.2	4701.7	4978.2	5543.9	4354.9	4094.5	4198.8	3993.2	4413.7	5763.4	4761.6
75°	3650.4	3660.2	4121.6	4652.7	3285.2	2874.5	3015.6	2929.8	3380.8	4807.7	3288.1
77.5°	2527.7	2505.8	3001.8	3553.6	2342.8	2104.3	2106.6	2065.7	2360.6	3539.8	2233.9
80°	1605.4	1572.0	1879.1	2195.3	1610.1	1722.4	1665.9	1664.2	1536.9	2183.8	1350.8
82.5°	867.5	904.4	1187.2	1376.2	1155.0	1331.2	1220.1	1184.4	1054.7	1367.0	864.1
85°	395.2	429.7	633.1	936.1	877.3	887.1	592.8	699.3	872.7	1110.0	461.4
87.5°	38.6	49.5	130.8	441.8	299.5	236.2	88.1	169.9	219.5	394.6	36.9
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°	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5
2.5°	2982.8	2952.8	2850.9	2766.8	2677.5	2609.5	2520.8	2461.4	2420.6	2358.9	2351.4
5°	2845.7	2772.5	2595.1	2414.2	2258.1	2140.6	2021.3	1911.9	1847.4	1827.2	1801.3
7.5°	2614.7	2491.4	2263.3	2055.9	1876.8	1701.6	1566.8	1471.2	1407.3	1369.8	1324.9
10°	2424.6	2281.7	2004.1	1750.0	1602.6	1493.7	1375.0	1272.5	1193.6	1126.2	1089.3
12.5°	2296.7	2135.4	1823.2	1617.0	1502.9	1387.1	1248.3	1133.1	1016.7	940.1	907.3
15°	2258.1	2087.6	1767.3	1550.7	1387.1	1235.6	1080.1	929.7	814.5	741.9	717.8
17.5°	2352.6	2146.4	1766.7	1462.6	1251.2	1070.3	871.0	729.9	611.8	557.6	540.3
20°	2528.8	2259.3	1771.9	1375.6	1103.7	849.1	633.7	517.9	461.4	438.4	429.7
22.5°	2774.8	2431.5	1787.5	1289.8	942.4	652.1	474.7	415.9	395.7	391.7	390.0
25°	3077.8	2644.6	1839.9	1212.6	806.5	497.7	396.9	370.4	358.9	354.8	354.3
27.5°	3356.6	2920.0	1903.3	1146.3	675.1	429.2	358.9	336.4	324.9	324.3	325.5
30°	3608.4	3150.4	1956.3	1072.0	575.5	381.3	334.1	311.6	300.7	300.1	303.6
32.5°	3826.1	3339.9	1995.4	998.9	520.2	352.0	311.6	287.4	278.2	276.5	278.2
35°	4058.8	3528.9	1977.6	941.8	488.5	327.8	294.9	271.3	260.4	255.2	255.2
37.5°	4324.4	3723.6	1947.0	894.6	474.1	307.6	280.5	257.5	246.5	241.4	240.8
40°	4614.1	3918.3	1905.0	852.5	459.7	295.5	270.7	246.5	233.3	228.1	227.0
42.5°	4869.9	4084.8	1870.4	824.9	436.1	297.8	262.1	238.5	221.8	214.9	214.3
45°	5092.3	4252.4	1864.1	808.8	416.5	294.4	259.8	232.1	212.6	205.1	203.9
47.5°	5266.2	4426.9	1900.4	799.6	395.2	275.9	274.8	228.1	204.5	196.4	195.3
50°	5478.2	4674.6	1983.3	780.5	375.6	258.6	290.3	227.5	198.2	187.8	184.9
52.5°	5760.5	4997.2	2095.7	746.6	347.4	242.5	277.1	227.5	190.7	180.3	176.8
55°	6187.3	5408.5	2205.7	698.7	307.6	221.2	250.0	220.6	179.7	170.5	168.2
57.5°	6470.2	5709.2	2276.0	632.5	258.1	205.6	215.4	209.7	168.8	159.0	159.0
60°	6484.6	5789.9	2242.6	549.0	227.0	191.2	187.2	211.4	159.0	148.6	147.5
62.5°	6318.7	5592.3	2068.6	474.1	210.3	175.7	169.4	185.5	149.2	138.8	137.1
65°	6059.4	5088.2	1766.7	438.4	201.0	161.9	152.7	152.1	138.8	129.0	126.7
67.5°	5583.0	4446.5	1451.6	417.6	196.4	146.3	137.7	134.8	126.7	118.7	117.5
70°	4880.8	3724.1	1164.2	409.0	194.1	130.2	123.3	119.8	112.9	106.6	106.0
72.5°	3797.3	3020.8	960.8	403.2	193.0	115.2	107.7	103.1	99.1	93.3	93.3
75°	2727.6	2222.4	733.3	363.5	178.6	99.1	91.0	88.1	82.4	77.8	78.9
77.5°	1719.5	1496.6	482.7	267.3	138.3	79.5	72.6	70.9	66.2	59.9	63.9
80°	1161.3	1052.4	281.7	168.2	87.0	58.2	55.9	55.3	50.1	43.2	43.8
82.5°	790.3	775.4	146.3	95.6	50.1	34.0	32.8	34.0	28.2	23.0	23.0
85°	308.8	421.7	69.1	37.4	16.1	5.2	7.5	8.1	4.6	2.3	2.9
87.5°	5.8	43.2	1.7	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5
2.5°	2339.9	2334.7	2343.4	2306.5	2314.0	2327.8	2334.7	2338.8	2395.8	2382.5	2418.8
5°	1825.5	1820.3	1853.7	1858.3	1875.6	1872.2	1888.9	1892.9	1913.6	1921.1	1971.8
7.5°	1327.8	1350.3	1388.3	1407.9	1437.2	1446.5	1437.8	1459.1	1415.9	1447.0	1456.2
10°	1066.8	1039.8	1023.6	1068.6	1074.3	1117.0	1099.7	1085.8	1111.2	1112.3	1136.5
12.5°	888.3	830.1	791.5	804.2	818.0	836.4	839.3	867.0	885.4	902.7	917.1
15°	696.4	676.3	641.1	623.9	643.4	650.9	668.8	691.8	711.4	716.6	736.2
17.5°	534.6	538.0	532.3	521.9	534.0	539.8	540.9	541.5	546.7	543.2	572.0
20°	430.3	442.4	456.8	459.1	463.1	466.0	460.8	441.3	441.8	453.9	463.1
22.5°	389.4	391.7	407.8	413.0	425.7	420.5	405.5	396.3	395.2	398.0	402.7
25°	357.1	360.6	372.1	380.2	390.0	380.8	369.8	361.2	360.0	362.9	367.5
27.5°	328.3	333.5	343.9	352.0	361.2	352.5	342.2	334.7	334.1	333.5	336.4
30°	305.3	311.1	318.6	327.8	334.1	326.6	316.8	312.8	312.2	311.1	312.2
32.5°	282.3	291.5	299.0	303.6	309.9	304.2	296.7	294.4	290.3	286.9	285.1
35°	256.3	266.1	277.7	283.4	289.8	284.0	278.8	269.0	262.1	261.5	262.7
37.5°	241.4	245.4	254.6	264.4	270.7	267.9	258.1	248.3	246.5	246.5	247.7
40°	228.1	229.8	233.9	246.5	258.1	249.4	237.3	234.5	234.5	233.9	234.5
42.5°	214.9	216.6	216.6	226.4	244.8	231.0	221.8	221.8	221.8	222.4	224.1
45°	202.8	203.3	202.8	209.7	227.0	215.4	209.1	210.8	212.0	213.1	214.3
47.5°	192.4	193.0	192.4	198.2	206.8	202.2	198.7	201.0	203.3	205.1	206.2
50°	183.2	182.6	183.8	187.2	191.2	192.4	190.1	193.6	194.7	197.0	199.9
52.5°	175.1	174.5	175.7	177.4	183.2	183.2	183.2	186.1	188.4	190.7	194.7
55°	165.9	166.5	168.2	170.5	178.0	176.8	177.4	179.7	182.0	185.5	187.8
57.5°	157.3	158.4	160.7	164.2	171.7	171.1	171.7	172.8	175.7	177.4	179.7
60°	147.5	149.8	152.7	155.0	162.4	161.9	164.7	167.1	168.8	168.8	169.9
62.5°	137.7	141.1	144.0	145.7	153.8	154.4	158.4	160.1	161.3	160.1	161.9
65°	127.9	133.1	134.2	136.5	144.6	145.2	149.8	153.8	152.7	151.5	154.4
67.5°	118.1	124.4	123.9	126.7	134.8	135.9	140.0	146.9	144.6	143.4	145.7
70°	107.1	111.8	112.3	114.1	125.0	123.3	129.6	135.9	134.2	134.8	134.8
72.5°	95.0	99.1	99.1	102.5	114.1	111.2	116.4	123.3	123.3	122.7	122.7
75°	80.6	83.0	85.3	90.4	102.5	99.1	102.5	108.9	110.0	108.9	108.9
77.5°	65.1	68.5	69.7	76.6	85.3	84.7	88.1	91.0	93.3	92.2	92.2
80°	46.1	49.5	54.1	61.6	66.8	68.5	70.3	72.6	73.7	73.7	74.9
82.5°	25.9	31.1	35.1	42.6	44.9	53.6	53.0	54.7	53.0	46.7	51.8
85°	5.8	10.9	15.6	19.6	22.5	31.1	32.8	36.9	30.5	28.2	28.2
87.5°	0.0	0.0	0.0	0.0	0.0	4.6	9.2	12.7	10.9	9.2	9.2
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5
2.5°	2449.4	2499.5	2560.0	2664.2	2737.4	2816.3	2895.8	2980.5	3002.9	3026.0
5°	1985.6	2084.1	2137.7	2277.7	2424.6	2611.2	2763.9	2930.9	3000.6	3016.8
7.5°	1504.1	1570.9	1711.4	1853.1	2035.2	2231.0	2464.9	2725.3	2806.5	2840.5
10°	1192.4	1283.4	1406.7	1558.8	1718.3	1929.2	2193.0	2497.2	2612.4	2631.4
12.5°	1015.0	1116.4	1250.6	1411.3	1562.2	1721.2	1987.4	2301.3	2424.6	2465.5
15°	811.7	934.3	1089.3	1258.7	1422.8	1596.8	1866.4	2220.7	2362.9	2410.8
17.5°	637.7	736.8	904.4	1088.2	1282.9	1502.9	1841.0	2259.3	2434.4	2478.7
20°	487.9	558.8	699.9	894.0	1122.1	1410.2	1847.4	2405.0	2614.7	2675.2
22.5°	421.7	458.0	543.8	728.7	983.9	1329.5	1873.3	2604.9	2857.8	2958.6
25°	381.9	400.9	449.3	570.3	852.0	1251.2	1932.6	2873.9	3197.6	3264.5
27.5°	347.9	361.8	391.7	478.7	732.2	1178.6	2001.8	3172.3	3515.0	3614.7
30°	315.7	334.1	362.3	425.1	655.5	1112.3	2088.7	3414.2	3782.3	3875.1
32.5°	290.9	309.3	335.3	387.7	590.4	1042.6	2140.6	3626.8	4000.6	4079.6
35°	270.7	286.3	313.4	357.7	540.9	989.6	2130.2	3795.6	4212.1	4292.7
37.5°	256.3	269.6	296.7	329.5	503.5	934.3	2125.0	4018.5	4469.5	4562.9
40°	243.1	256.9	281.7	311.1	466.0	869.3	2127.9	4239.7	4743.7	4837.1
42.5°	232.7	248.3	268.4	305.9	427.4	816.8	2127.9	4432.1	4982.2	5072.1
45°	224.1	240.8	260.4	305.3	396.9	777.1	2113.5	4597.4	5172.3	5248.9
47.5°	216.6	235.0	263.3	294.9	389.4	748.3	2100.8	4729.9	5327.3	5399.3
50°	211.4	233.3	280.0	282.8	391.7	739.6	2161.9	4897.0	5463.8	5526.0
52.5°	207.4	233.9	279.4	265.0	387.7	745.4	2289.2	5157.9	5653.3	5657.9
55°	199.3	233.3	265.0	244.8	371.0	755.2	2452.8	5537.0	5950.0	5953.4
57.5°	191.2	227.0	246.0	227.5	337.0	755.2	2649.8	5895.8	6307.7	6310.6
60°	183.2	236.2	216.0	212.6	292.6	741.4	2857.8	6053.7	6420.0	6449.4
62.5°	175.1	237.9	193.0	199.3	260.4	708.0	3012.7	5879.1	6268.0	6310.0
65°	165.9	191.8	178.0	185.5	243.7	652.1	2963.8	5559.4	5982.2	6032.4
67.5°	155.0	162.4	161.9	171.1	237.9	569.7	2705.7	5155.0	5674.6	5671.8
70°	141.7	145.7	147.5	157.3	227.0	505.8	2254.6	4630.3	5263.9	5328.4
72.5°	127.9	131.3	133.1	141.7	216.0	469.5	1750.0	3907.3	4559.4	4660.2
75°	112.9	115.2	117.5	125.0	204.5	415.9	1246.6	2982.8	3492.0	3650.4
77.5°	97.4	97.4	100.2	107.7	172.2	343.3	836.4	2092.2	2365.8	2527.7
80°	78.9	79.5	78.3	86.4	126.7	235.0	475.2	1397.5	1574.3	1605.4
82.5°	60.5	58.8	59.3	63.4	94.5	160.1	253.5	868.1	884.8	867.5
85°	38.0	38.0	36.9	41.5	60.5	83.5	138.3	531.7	415.3	395.2
87.5°	15.6	12.7	14.4	16.7	28.8	34.0	54.1	109.4	42.1	38.6
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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