

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: P451769

Luminaire Tested: **GALN-SA2C-830-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451769
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-SA2C-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA 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: 9684 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

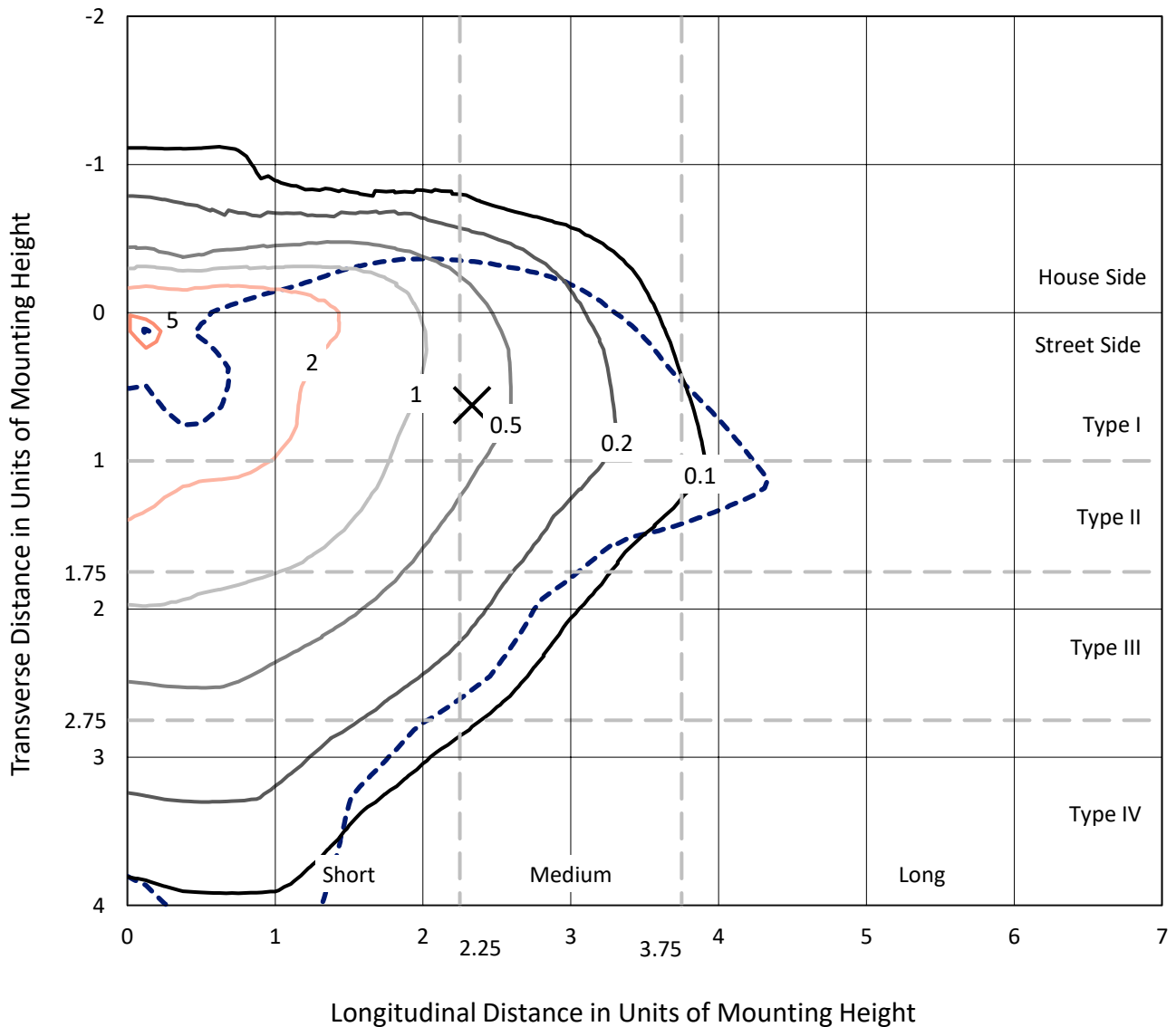
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

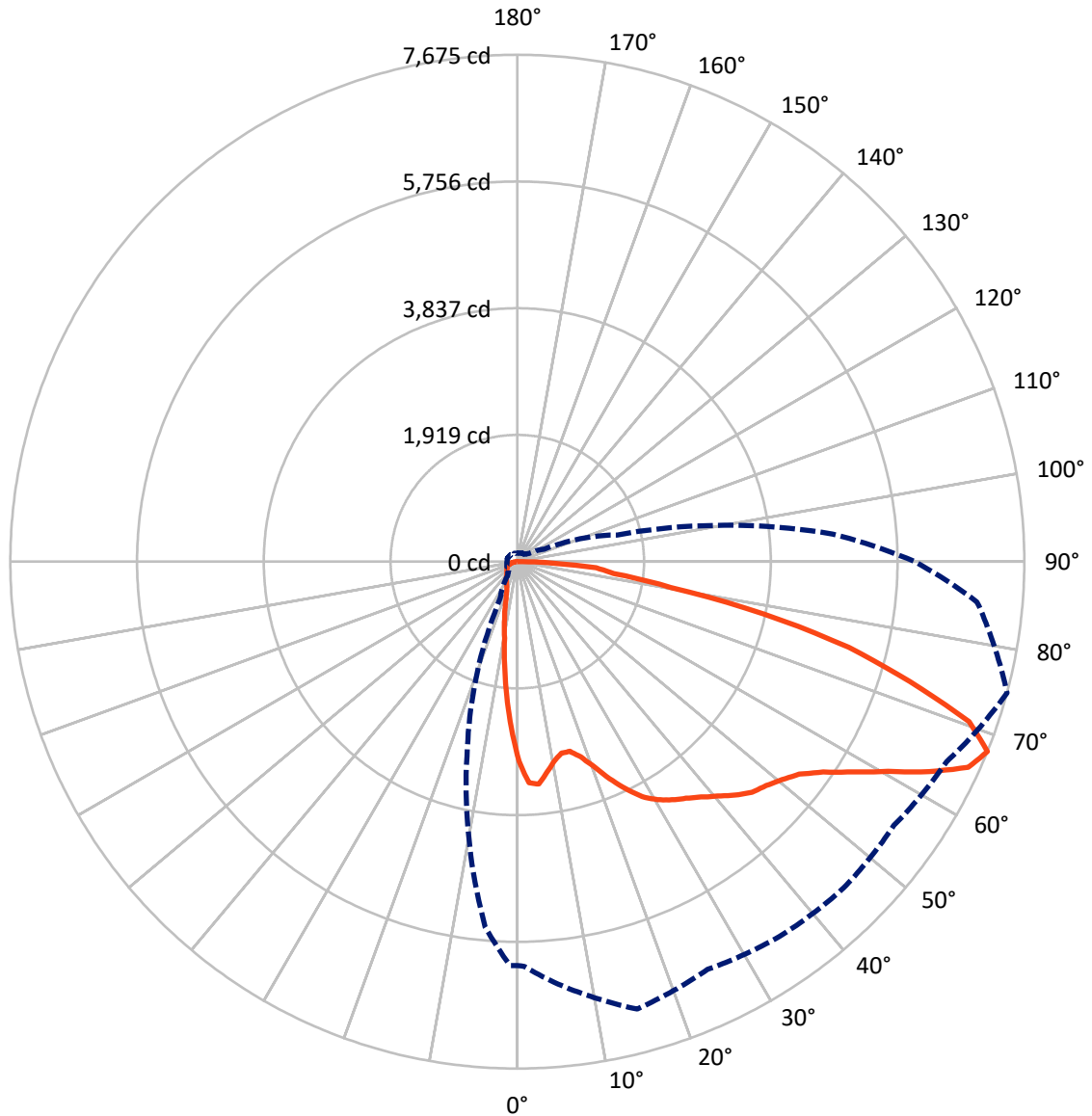
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	1636.8	0.0	1636.8
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	8047.2	0.0	8047.2
	% Fixture	83.1	0.0	83.1
Total	Lumens	9684.0	0.0	9684.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.5	2.4
10°-20°	478.6	4.9
20°-30°	688.7	7.1
30°-40°	991.9	10.2
40°-50°	1393.3	14.4
50°-60°	1943.2	20.1
60°-70°	2310.4	23.9
70°-80°	1360.7	14.1
80°-90°	287.7	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°	9684.0	100.0
0°-180°	9684.0	100.0

Coefficient of Utilization



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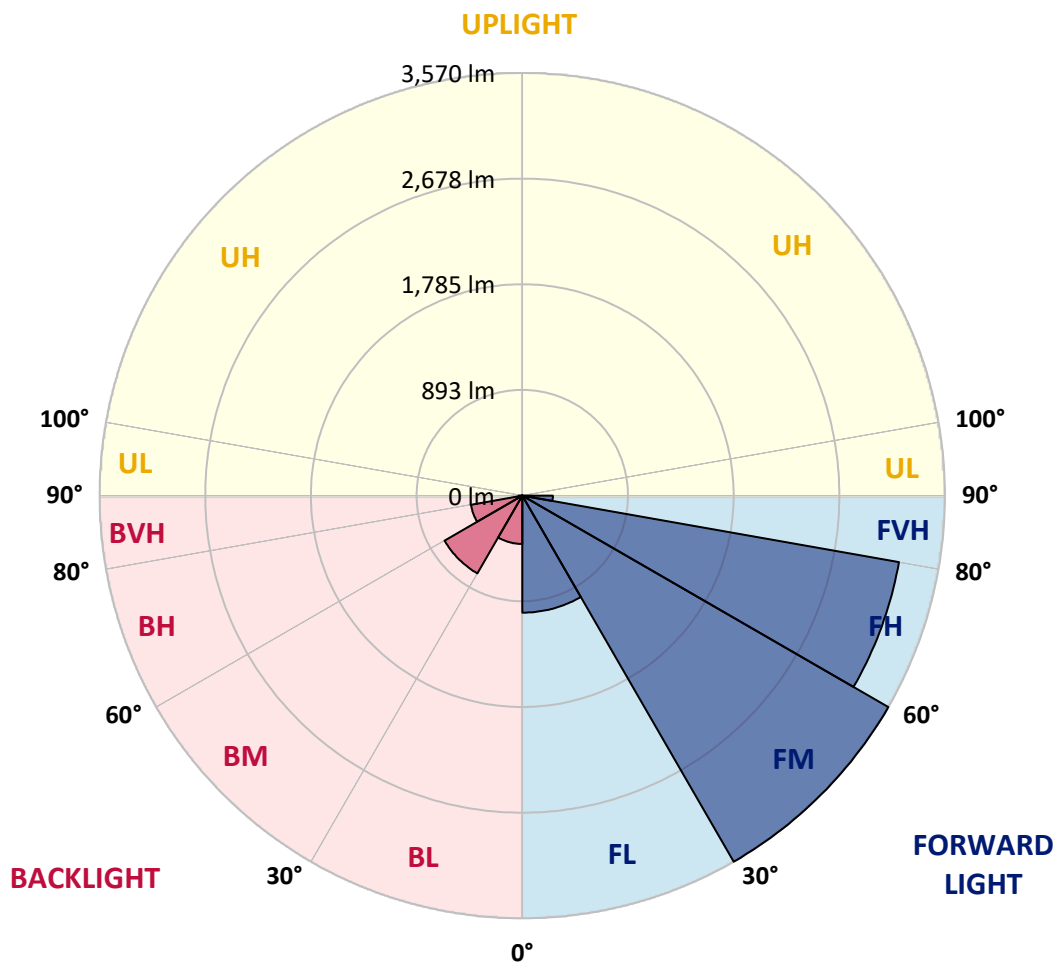
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	988.5	10.2			
FM	(30°-60°)	3570.1	36.9			
FH	(60°-80°)	3230.6	33.4			G2/5000
FVH	(80°-90°)	258.0	2.7			G3/500
BL	(0°-30°)	408.3	4.2	B1/500		
BM	(30°-60°)	758.3	7.8	B1/1000		
BH	(60°-80°)	440.4	4.5	B1/500		G1/500
BVH	(80°-90°)	29.8	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°	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5
2.5°	3262.1	3266.5	3294.4	3375.8	3431.6	3452.1	3466.4	3439.7	3413.6	3350.3	3254.7
5°	3252.2	3277.6	3350.3	3532.9	3676.9	3739.0	3757.7	3677.6	3545.3	3382.6	3187.0
7.5°	3062.1	3096.3	3208.1	3514.2	3768.2	3913.5	3894.3	3749.6	3511.1	3221.1	2947.9
10°	2836.7	2874.6	3009.4	3379.5	3706.7	3906.7	3906.7	3730.3	3413.6	3069.0	2754.1
12.5°	2657.9	2697.6	2851.6	3241.0	3578.8	3768.2	3799.9	3648.4	3343.5	2972.7	2626.8
15°	2598.9	2637.4	2803.2	3157.2	3443.4	3558.9	3569.5	3519.8	3309.3	2979.6	2621.2
17.5°	2672.2	2721.8	2889.5	3182.0	3319.2	3326.1	3334.1	3373.3	3313.0	3104.4	2734.3
20°	2883.9	2937.3	3112.5	3262.1	3210.6	3139.8	3144.1	3244.7	3357.1	3310.5	3004.4
22.5°	3189.5	3236.0	3415.5	3403.1	3164.6	3018.7	2988.3	3128.6	3422.3	3567.6	3291.9
25°	3519.2	3573.9	3780.0	3612.4	3177.7	2946.6	2927.4	3060.3	3490.0	3808.0	3624.2
27.5°	3896.8	3950.2	4112.9	3823.5	3246.0	2941.1	2918.1	3054.1	3550.9	4030.3	3941.5
30°	4177.5	4226.5	4337.1	4001.1	3329.8	2978.3	2949.7	3103.1	3603.0	4182.4	4250.7
32.5°	4397.9	4448.8	4509.1	4111.6	3440.3	3046.0	2993.2	3192.6	3671.4	4298.6	4479.9
35°	4627.7	4687.9	4683.6	4209.8	3543.4	3124.2	3072.7	3321.7	3778.8	4399.8	4770.5
37.5°	4918.9	4943.2	4912.1	4297.9	3667.0	3265.2	3236.7	3513.6	3931.5	4522.1	5110.2
40°	5214.5	5263.0	5103.4	4404.8	3817.3	3530.4	3527.3	3797.4	4112.9	4665.6	5439.3
42.5°	5467.9	5508.9	5282.2	4497.9	3999.2	3853.9	3877.5	4178.1	4350.7	4832.0	5703.9
45°	5658.5	5695.2	5447.4	4587.9	4238.9	4227.8	4366.9	4586.1	4650.7	4981.7	5859.1
47.5°	5820.6	5856.0	5562.3	4724.6	4535.2	4674.3	4916.5	5011.5	4907.1	5067.4	6033.0
50°	5957.3	5967.8	5641.2	4887.3	4902.8	5221.4	5456.1	5517.6	5160.5	5190.3	6183.9
52.5°	6099.5	6085.8	5777.2	5092.2	5300.2	5740.5	5911.3	5975.3	5403.3	5341.8	6403.7
55°	6418.0	6431.1	6082.1	5350.5	5702.0	6250.4	6475.2	6413.7	5672.2	5620.7	6683.2
57.5°	6803.1	6791.9	6511.2	5754.8	6111.3	6724.8	6892.5	6793.7	6031.1	6003.8	6966.4
60°	6952.7	6967.6	6870.1	6189.5	6514.9	7140.3	7311.7	7158.3	6461.5	6449.1	7180.0
62.5°	6802.4	6886.3	6952.1	6576.4	6858.9	7445.8	7615.9	7440.8	6910.5	7000.5	7329.7
65°	6503.1	6521.1	6745.3	6904.3	7024.7	7496.1	7584.9	7491.7	7285.6	7502.9	7322.8
67.5°	6114.4	6129.9	6392.6	7011.7	6811.1	6924.8	6986.9	6959.5	7169.4	7674.9	6985.6
70°	5744.2	5731.8	6009.4	6737.8	5929.3	5756.7	5808.2	5722.5	6186.4	7254.5	6324.3
72.5°	5023.9	5068.6	5366.7	5976.5	4694.8	4414.1	4526.5	4304.8	4758.1	6213.1	5133.2
75°	3935.3	3945.8	4443.3	5015.8	3541.6	3098.8	3250.9	3158.4	3644.6	5182.9	3544.7
77.5°	2724.9	2701.3	3236.0	3830.9	2525.6	2268.5	2271.0	2226.9	2544.9	3816.0	2408.2
80°	1730.7	1694.7	2025.7	2366.6	1735.7	1856.8	1795.9	1794.1	1656.8	2354.2	1456.2
82.5°	935.2	975.0	1279.9	1483.6	1245.1	1435.1	1315.3	1276.8	1137.1	1473.6	931.5
85°	426.0	463.3	682.5	1009.1	945.8	956.3	639.0	753.9	940.8	1196.7	497.4
87.5°	41.6	53.4	141.0	476.3	322.9	254.6	95.0	183.2	236.6	425.4	39.7
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°	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5
2.5°	3215.5	3183.2	3073.3	2982.7	2886.4	2813.1	2717.5	2653.5	2609.4	2543.0	2534.9
5°	3067.7	2988.9	2797.6	2602.6	2434.3	2307.6	2179.1	2061.1	1991.5	1969.8	1941.9
7.5°	2818.7	2685.8	2439.9	2216.3	2023.2	1834.4	1689.1	1586.0	1517.1	1476.7	1428.3
10°	2613.8	2459.8	2160.5	1886.6	1727.6	1610.3	1482.3	1371.8	1286.7	1214.1	1174.3
12.5°	2475.9	2302.0	1965.5	1743.1	1620.2	1495.4	1345.7	1221.5	1096.1	1013.5	978.1
15°	2434.3	2250.5	1905.2	1671.7	1495.4	1332.0	1164.4	1002.3	878.1	799.8	773.8
17.5°	2536.2	2313.8	1904.6	1576.7	1348.8	1153.8	939.0	786.8	659.5	601.1	582.5
20°	2726.2	2435.6	1910.2	1482.9	1189.8	915.4	683.1	558.3	497.4	472.6	463.3
22.5°	2991.4	2621.2	1927.0	1390.4	1016.0	703.0	511.7	448.4	426.6	422.3	420.4
25°	3318.0	2851.0	1983.5	1307.2	869.4	536.5	427.9	399.3	386.9	382.5	381.9
27.5°	3618.6	3147.8	2051.8	1235.8	727.8	462.6	386.9	362.7	350.2	349.6	350.9
30°	3889.9	3396.2	2108.9	1155.7	620.4	411.1	360.2	336.0	324.2	323.5	327.3
32.5°	4124.7	3600.6	2151.1	1076.8	560.8	379.4	336.0	309.9	299.9	298.1	299.9
35°	4375.6	3804.2	2131.9	1015.3	526.6	353.3	318.0	292.5	280.7	275.1	275.1
37.5°	4661.8	4014.1	2099.0	964.4	511.1	331.6	302.4	277.6	265.8	260.2	259.6
40°	4974.2	4224.0	2053.6	919.1	495.6	318.6	291.9	265.8	251.5	245.9	244.7
42.5°	5249.9	4403.5	2016.4	889.3	470.1	321.1	282.6	257.1	239.1	231.6	231.0
45°	5489.6	4584.2	2009.6	871.9	449.0	317.3	280.1	250.3	229.1	221.1	219.8
47.5°	5677.2	4772.4	2048.7	861.9	426.0	297.5	296.2	245.9	220.5	211.8	210.5
50°	5905.7	5039.4	2138.1	841.5	404.9	278.8	313.0	245.3	213.6	202.4	199.3
52.5°	6210.0	5387.2	2259.2	804.8	374.5	261.4	298.7	245.3	205.6	194.4	190.6
55°	6670.2	5830.6	2377.8	753.3	331.6	238.5	269.5	237.8	193.8	183.8	181.3
57.5°	6975.1	6154.7	2453.6	681.9	278.2	221.7	232.3	226.0	182.0	171.4	171.4
60°	6990.6	6241.7	2417.6	591.8	244.7	206.2	201.8	227.9	171.4	160.2	159.0
62.5°	6811.7	6028.7	2230.0	511.1	226.7	189.4	182.6	200.0	160.8	149.7	147.8
65°	6532.3	5485.3	1904.6	472.6	216.7	174.5	164.6	163.9	149.7	139.1	136.6
67.5°	6018.7	4793.5	1564.9	450.2	211.8	157.7	148.4	145.3	136.6	127.9	126.7
70°	5261.7	4014.8	1255.0	440.9	209.3	140.3	132.9	129.2	121.7	114.9	114.3
72.5°	4093.6	3256.5	1035.8	434.7	208.0	124.2	116.1	111.2	106.8	100.6	100.6
75°	2940.4	2395.8	790.5	391.9	192.5	106.8	98.1	95.0	88.8	83.8	85.1
77.5°	1853.7	1613.4	520.4	288.1	149.0	85.7	78.2	76.4	71.4	64.6	68.9
80°	1251.9	1134.6	303.7	181.3	93.8	62.7	60.2	59.6	54.0	46.6	47.2
82.5°	852.0	835.9	157.7	103.1	54.0	36.6	35.4	36.6	30.4	24.8	24.8
85°	332.9	454.6	74.5	40.4	17.4	5.6	8.1	8.7	5.0	2.5	3.1
87.5°	6.2	46.6	1.9	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°	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5
2.5°	2522.5	2516.9	2526.2	2486.5	2494.6	2509.5	2516.9	2521.3	2582.7	2568.5	2607.6
5°	1967.9	1962.4	1998.4	2003.3	2022.0	2018.2	2036.3	2040.6	2063.0	2071.0	2125.7
7.5°	1431.4	1455.6	1496.6	1517.7	1549.4	1559.3	1550.0	1573.0	1526.4	1560.0	1569.9
10°	1150.1	1120.9	1103.5	1152.0	1158.2	1204.1	1185.5	1170.6	1197.9	1199.2	1225.2
12.5°	957.6	894.9	853.3	866.9	881.8	901.7	904.8	934.6	954.5	973.1	988.6
15°	750.8	729.1	691.2	672.5	693.7	701.7	721.0	745.8	766.9	772.5	793.6
17.5°	576.3	580.0	573.8	562.6	575.7	581.9	583.1	583.7	589.3	585.6	616.7
20°	463.9	476.9	492.5	494.9	499.3	502.4	496.8	475.7	476.3	489.3	499.3
22.5°	419.8	422.3	439.7	445.3	458.9	453.3	437.2	427.2	426.0	429.1	434.1
25°	385.0	388.7	401.2	409.9	420.4	410.5	398.7	389.4	388.1	391.2	396.2
27.5°	354.0	359.6	370.7	379.4	389.4	380.1	368.9	360.8	360.2	359.6	362.7
30°	329.1	335.3	343.4	353.3	360.2	352.1	341.5	337.2	336.6	335.3	336.6
32.5°	304.3	314.2	322.3	327.3	334.1	327.9	319.8	317.3	313.0	309.3	307.4
35°	276.3	286.9	299.3	305.5	312.4	306.2	300.6	290.0	282.6	281.9	283.2
37.5°	260.2	264.5	274.5	285.0	291.9	288.8	278.2	267.7	265.8	265.8	267.0
40°	245.9	247.8	252.1	265.8	278.2	268.9	255.9	252.7	252.7	252.1	252.7
42.5°	231.6	233.5	233.5	244.1	263.9	249.0	239.1	239.1	239.1	239.7	241.6
45°	218.6	219.2	218.6	226.0	244.7	232.3	225.4	227.3	228.5	229.8	231.0
47.5°	207.4	208.0	207.4	213.6	222.9	218.0	214.2	216.7	219.2	221.1	222.3
50°	197.5	196.9	198.1	201.8	206.2	207.4	204.9	208.7	209.9	212.4	215.5
52.5°	188.8	188.2	189.4	191.3	197.5	197.5	197.5	200.6	203.1	205.6	209.9
55°	178.8	179.5	181.3	183.8	191.9	190.6	191.3	193.8	196.2	200.0	202.4
57.5°	169.5	170.8	173.3	177.0	185.1	184.4	185.1	186.3	189.4	191.3	193.8
60°	159.0	161.5	164.6	167.0	175.1	174.5	177.6	180.1	182.0	182.0	183.2
62.5°	148.4	152.1	155.2	157.1	165.8	166.4	170.8	172.6	173.9	172.6	174.5
65°	137.9	143.5	144.7	147.2	155.9	156.5	161.5	165.8	164.6	163.3	166.4
67.5°	127.3	134.1	133.5	136.6	145.3	146.6	150.9	158.4	155.9	154.6	157.1
70°	115.5	120.5	121.1	123.0	134.8	132.9	139.7	146.6	144.7	145.3	145.3
72.5°	102.5	106.8	106.8	110.5	123.0	119.9	125.4	132.9	132.9	132.3	132.3
75°	86.9	89.4	91.9	97.5	110.5	106.8	110.5	117.4	118.6	117.4	117.4
77.5°	70.2	73.9	75.1	82.6	91.9	91.3	95.0	98.1	100.6	99.4	99.4
80°	49.7	53.4	58.4	66.4	72.0	73.9	75.8	78.2	79.5	79.5	80.7
82.5°	27.9	33.5	37.9	46.0	48.4	57.8	57.1	59.0	57.1	50.3	55.9
85°	6.2	11.8	16.8	21.1	24.2	33.5	35.4	39.7	32.9	30.4	30.4
87.5°	0.0	0.0	0.0	0.0	0.0	5.0	9.9	13.7	11.8	9.9	9.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5
2.5°	2640.5	2694.5	2759.7	2872.1	2951.0	3036.1	3121.8	3213.1	3237.3	3262.1
5°	2140.6	2246.8	2304.5	2455.4	2613.8	2815.0	2979.6	3159.6	3234.8	3252.2
7.5°	1621.4	1693.5	1845.0	1997.8	2194.0	2405.1	2657.3	2937.9	3025.5	3062.1
10°	1285.5	1383.6	1516.5	1680.4	1852.4	2079.7	2364.1	2692.0	2816.2	2836.7
12.5°	1094.2	1203.5	1348.2	1521.4	1684.2	1855.5	2142.4	2480.9	2613.8	2657.9
15°	875.0	1007.3	1174.3	1356.9	1533.9	1721.4	2012.0	2394.0	2547.3	2598.9
17.5°	687.4	794.3	975.0	1173.1	1383.0	1620.2	1984.7	2435.6	2624.3	2672.2
20°	526.0	602.4	754.5	963.8	1209.7	1520.2	1991.5	2592.7	2818.7	2883.9
22.5°	454.6	493.7	586.2	785.6	1060.7	1433.3	2019.5	2808.2	3080.8	3189.5
25°	411.7	432.2	484.4	614.8	918.5	1348.8	2083.5	3098.2	3447.2	3519.2
27.5°	375.1	390.0	422.3	516.1	789.3	1270.6	2158.0	3419.8	3789.3	3896.8
30°	340.3	360.2	390.6	458.3	706.7	1199.2	2251.7	3680.7	4077.5	4177.5
32.5°	313.6	333.5	361.4	417.9	636.5	1124.0	2307.6	3909.8	4312.8	4397.9
35°	291.9	308.6	337.8	385.6	583.1	1066.9	2296.5	4091.8	4540.8	4627.7
37.5°	276.3	290.6	319.8	355.2	542.8	1007.3	2290.9	4332.1	4818.3	4918.9
40°	262.1	277.0	303.7	335.3	502.4	937.1	2294.0	4570.6	5113.9	5214.5
42.5°	250.9	267.7	289.4	329.8	460.8	880.6	2294.0	4778.0	5371.0	5467.9
45°	241.6	259.6	280.7	329.1	427.9	837.7	2278.4	4956.2	5576.0	5658.5
47.5°	233.5	253.4	283.8	318.0	419.8	806.7	2264.8	5099.0	5743.0	5820.6
50°	227.9	251.5	301.8	304.9	422.3	797.4	2330.6	5279.1	5890.2	5957.3
52.5°	223.6	252.1	301.2	285.7	417.9	803.6	2467.9	5560.4	6094.5	6099.5
55°	214.9	251.5	285.7	263.9	399.9	814.1	2644.2	5969.0	6414.3	6418.0
57.5°	206.2	244.7	265.2	245.3	363.3	814.1	2856.6	6355.9	6799.9	6803.1
60°	197.5	254.6	232.9	229.1	315.5	799.2	3080.8	6526.1	6921.0	6952.7
62.5°	188.8	256.5	208.0	214.9	280.7	763.2	3247.8	6337.9	6757.1	6802.4
65°	178.8	206.8	191.9	200.0	262.7	703.0	3195.0	5993.3	6449.1	6503.1
67.5°	167.0	175.1	174.5	184.4	256.5	614.2	2916.8	5557.3	6117.5	6114.4
70°	152.8	157.1	159.0	169.5	244.7	545.2	2430.6	4991.6	5674.7	5744.2
72.5°	137.9	141.6	143.5	152.8	232.9	506.1	1886.6	4212.2	4915.2	5023.9
75°	121.7	124.2	126.7	134.8	220.5	448.4	1343.8	3215.5	3764.5	3935.3
77.5°	104.9	104.9	108.1	116.1	185.7	370.1	901.7	2255.5	2550.4	2724.9
80°	85.1	85.7	84.5	93.1	136.6	253.4	512.3	1506.5	1697.2	1730.7
82.5°	65.2	63.3	64.0	68.3	101.8	172.6	273.2	935.8	953.9	935.2
85°	41.0	41.0	39.7	44.7	65.2	90.0	149.0	573.2	447.7	426.0
87.5°	16.8	13.7	15.5	18.0	31.0	36.6	58.4	118.0	45.3	41.6
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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