

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: P529275

Luminaire Tested: **GALN-SA4B-830-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9889 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

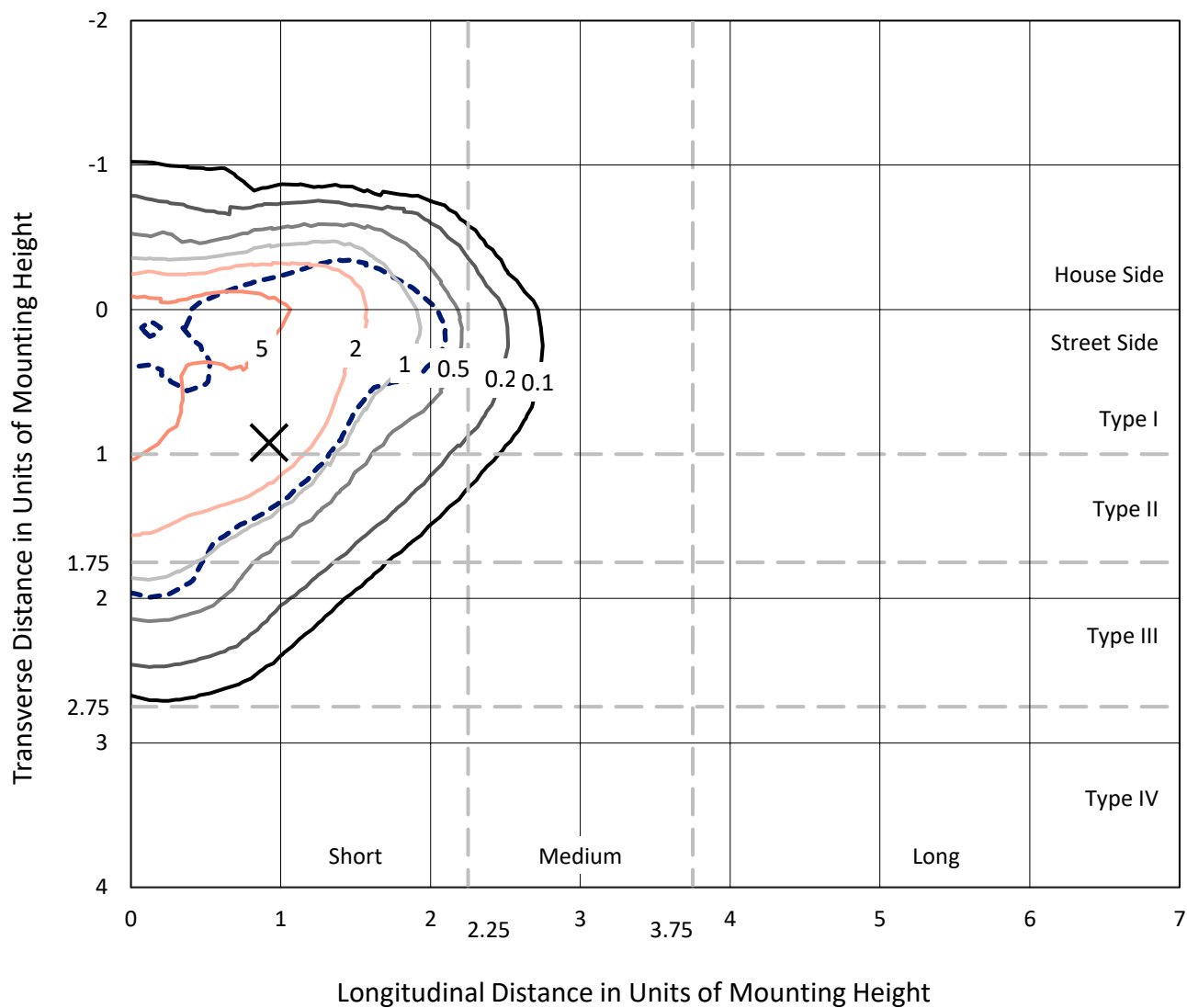
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

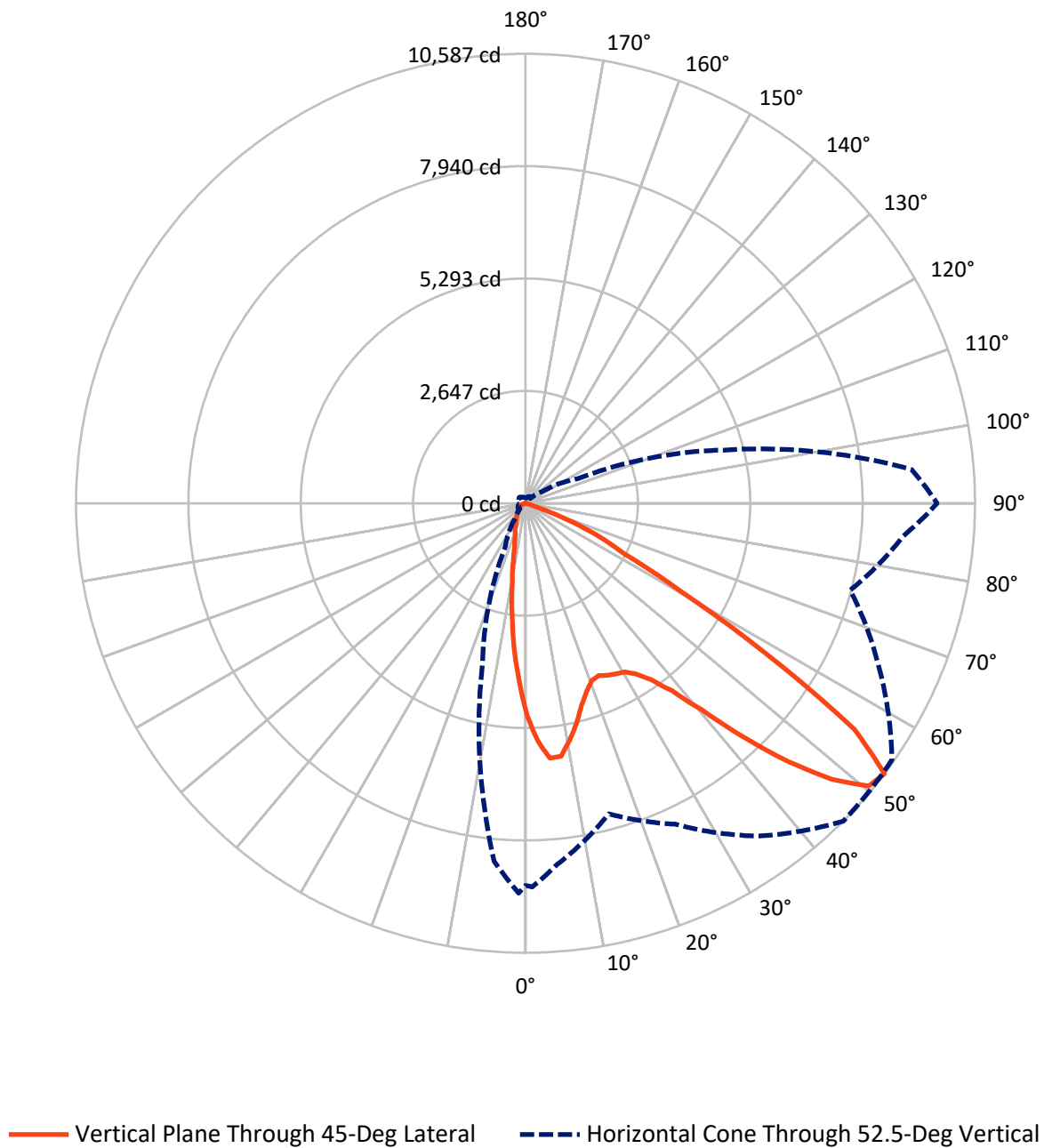
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	2007.0	0.0	2007.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	7882.0	0.0	7882.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	9889.0	0.0	9889.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.7	3.7
10°-20°	721.5	7.3
20°-30°	1098.0	11.1
30°-40°	1641.0	16.6
40°-50°	2337.0	23.6
50°-60°	2512.2	25.4
60°-70°	1113.2	11.3
70°-80°	90.1	0.9
80°-90°	10.5	0.1
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°	9889.0	100.0
0°-180°	9889.0	100.0

Coefficient of Utilization



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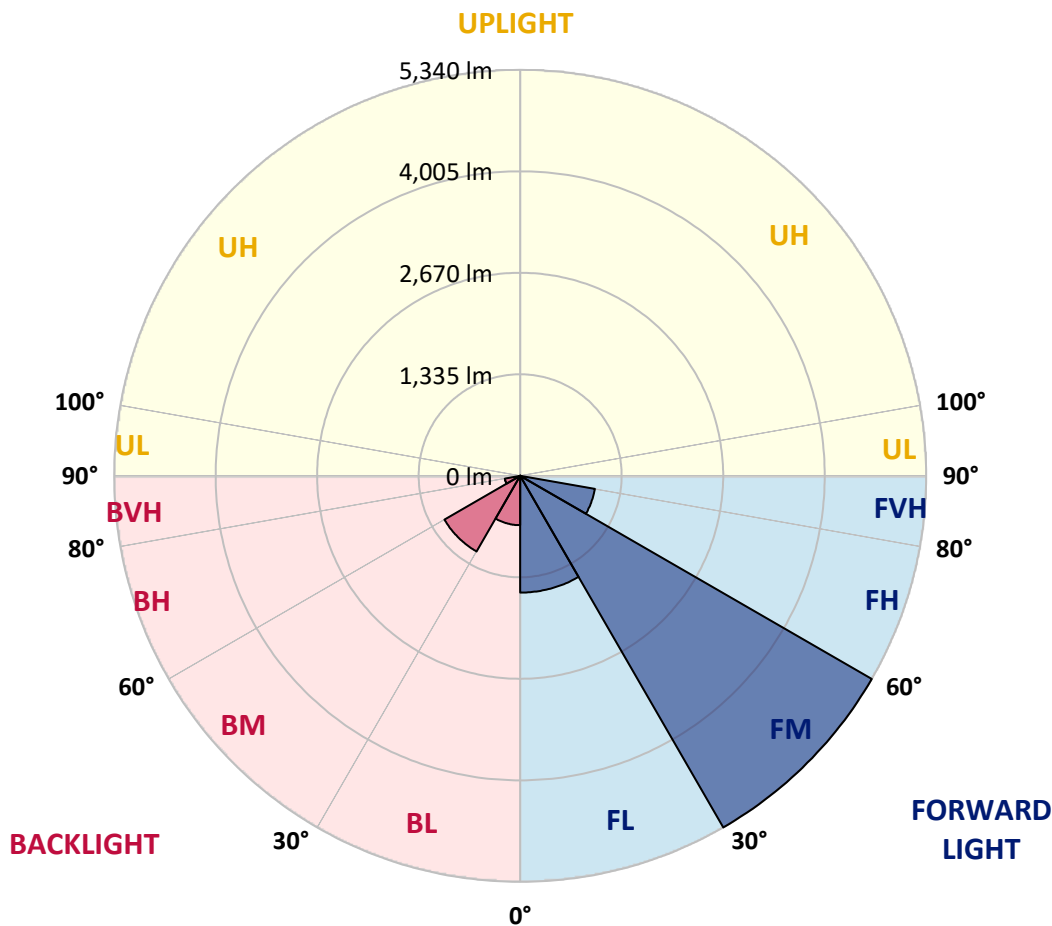
CATALOG NUMBER: GALN-SA4B-830-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1536.0	15.5			
FM	(30°-60°)	5340.4	54.0			
FH	(60°-80°)	997.9	10.1			G1/1800
FVH	(80°-90°)	7.8	0.1			G0/10
BL	(0°-30°)	649.1	6.6	B2/1000		
BM	(30°-60°)	1149.8	11.6	B2/2500		
BH	(60°-80°)	205.3	2.1	B1/500		G1/500
BVH	(80°-90°)	2.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5014.2	5014.2	5014.2	5014.2	5014.2	5014.2	5014.2	5014.2	5014.2	5014.2	5014.2
2.5°	5305.9	5321.5	5407.1	5514.0	5570.4	5698.8	5609.3	5632.7	5584.1	5412.9	5278.7
5°	5144.5	5142.6	5251.5	5516.0	5766.9	6021.7	6029.5	5893.3	5654.1	5391.5	5016.1
7.5°	4658.2	4734.1	4846.9	5269.0	5733.8	5924.4	6015.9	5856.4	5488.8	5113.4	4706.9
10°	4290.6	4329.5	4520.2	5029.7	5370.1	5624.9	5681.3	5589.9	5307.9	4839.1	4384.0
12.5°	4078.6	4098.1	4321.8	4749.7	5109.5	5298.2	5325.4	5368.2	5165.9	4726.3	4179.8
15°	4080.6	4096.1	4397.6	4755.5	4897.5	4846.9	4936.4	4934.4	5022.0	4704.9	4350.9
17.5°	4374.3	4391.8	4664.1	4841.1	4778.8	4660.2	4654.4	4743.8	4928.6	4971.4	4609.6
20°	4880.0	4920.8	5121.2	5111.4	4761.3	4522.1	4456.0	4524.0	4953.9	5197.0	5130.9
22.5°	5560.7	5617.1	5757.2	5488.8	4841.1	4428.7	4407.3	4539.6	5121.2	5700.8	5722.2
25°	6350.4	6445.7	6513.8	6169.5	5125.0	4590.2	4489.0	4716.6	5346.8	6247.3	6474.9
27.5°	6873.6	6972.8	6957.2	6465.1	5315.7	4633.0	4547.4	4759.4	5543.2	6377.6	6867.8
30°	7282.0	7342.3	7451.3	6624.6	5506.3	4753.6	4607.7	4940.3	5607.4	6603.2	7342.3
32.5°	7758.6	7799.4	7807.2	6906.7	5800.0	4905.3	4794.4	5165.9	5891.4	6819.1	7762.5
35°	8239.0	8299.3	8172.8	7254.8	5980.8	5187.3	5105.6	5556.8	6118.9	7042.8	8225.4
37.5°	8760.2	8791.4	8499.6	7398.7	6239.5	5646.3	5601.6	5978.9	6513.8	7447.4	8738.8
40°	9197.9	9227.0	8847.8	7575.7	6511.8	6288.2	6402.9	6784.1	7050.6	7709.9	8995.6
42.5°	9441.0	9509.1	8964.5	7478.5	7058.4	7015.6	7525.2	7659.4	7673.0	7783.8	9225.1
45°	9507.1	9476.0	8771.9	7558.2	7536.8	8211.7	8674.7	8851.6	8291.5	7920.0	9283.4
47.5°	9201.7	9242.6	8487.9	7488.2	8165.1	9118.1	9717.2	10045.9	8752.5	7801.4	9139.5
50°	8954.7	8902.2	8396.5	7437.6	8334.3	9546.0	10469.9	10543.8	9176.5	7947.2	8982.0
52.5°	9003.4	9036.4	8542.4	7571.8	8338.2	9571.3	10586.6	10536.0	9190.1	7914.2	8925.6
55°	9106.4	8960.6	8480.2	7276.2	7780.0	8865.3	9396.2	9318.4	8482.1	7562.1	8787.5
57.5°	7857.8	8083.4	7797.5	6496.3	6385.4	6679.1	6669.4	6908.6	6327.1	6507.9	7999.7
60°	6377.6	6416.5	6523.5	5556.8	4419.0	4317.9	4177.8	4026.1	4257.6	5564.6	7276.2
62.5°	5609.3	5562.7	5943.9	5055.0	3119.8	2612.1	2588.8	2682.1	3285.1	5307.9	6825.0
65°	4076.7	4135.0	4411.2	3923.0	2341.8	1993.6	1958.6	2234.8	2658.8	4253.7	5208.7
67.5°	2489.6	2602.4	2627.7	2419.6	1589.1	1262.3	1211.7	1462.6	1919.7	2752.2	3053.6
70°	1149.5	1285.6	1414.0	1320.6	920.0	519.3	490.1	614.6	968.6	1583.2	1620.2
72.5°	348.2	350.1	490.1	511.5	297.6	116.7	103.1	136.1	328.7	523.2	550.4
75°	25.3	27.2	66.1	75.9	56.4	29.2	31.1	37.0	70.0	116.7	87.5
77.5°	1.9	1.9	1.9	9.7	17.5	19.4	25.3	29.2	37.0	42.8	38.9
80°	1.9	0.0	1.9	7.8	13.6	19.4	23.3	27.2	29.2	33.1	29.2
82.5°	0.0	0.0	0.0	5.8	13.6	19.4	21.4	29.2	33.1	38.9	33.1
85°	0.0	0.0	0.0	5.8	13.6	21.4	19.4	9.7	0.0	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°	5014.2	5014.2	5014.2	5014.2	5014.2	5014.2	5014.2	5014.2	5014.2	5014.2	5014.2
2.5°	5302.0	5226.2	5053.1	4965.6	4759.4	4730.2	4527.9	4494.9	4426.8	4389.8	4300.4
5°	4850.8	4759.4	4477.4	4240.1	3963.9	3771.3	3623.5	3489.3	3411.5	3339.5	3372.6
7.5°	4483.2	4216.7	3903.6	3506.8	3187.8	2981.7	2756.0	2571.3	2462.4	2388.4	2406.0
10°	4098.1	3925.0	3489.3	3043.9	2658.8	2512.9	2335.9	2193.9	2040.3	1908.0	1845.8
12.5°	3977.5	3720.8	3174.2	2721.0	2429.3	2287.3	2085.0	1921.6	1725.2	1563.8	1507.4
15°	3998.9	3751.9	3088.6	2604.3	2260.1	2015.0	1773.8	1571.6	1355.7	1242.8	1184.5
17.5°	4347.1	3919.2	3145.0	2481.8	2024.7	1684.4	1386.8	1130.0	968.6	851.9	826.6
20°	4774.9	4280.9	3265.6	2392.3	1832.2	1340.1	1013.3	791.6	657.4	638.0	632.1
22.5°	5401.2	4872.2	3524.3	2332.0	1596.8	1044.5	694.4	575.7	538.8	534.9	536.8
25°	6276.5	5613.2	3806.3	2281.5	1419.8	805.2	567.9	488.2	476.5	470.7	480.4
27.5°	6655.8	6060.6	3956.1	2172.6	1258.4	725.5	560.2	484.3	451.2	441.5	447.3
30°	7124.5	6358.2	4191.5	1985.8	1021.1	597.1	523.2	527.1	511.5	462.9	447.3
32.5°	7746.9	6729.7	4310.1	1853.6	912.2	494.0	383.2	352.0	392.9	400.7	414.3
35°	8145.6	7107.0	4370.4	1775.8	855.8	422.1	324.8	295.6	285.9	287.9	295.6
37.5°	8886.7	7616.6	4446.2	1694.1	813.0	367.6	293.7	266.5	252.8	252.8	260.6
40°	9330.1	8021.1	4549.3	1649.4	770.2	334.5	266.5	243.1	231.5	231.5	235.3
42.5°	9441.0	8221.5	4514.3	1633.8	721.6	326.8	243.1	225.6	212.0	210.1	208.1
45°	9639.4	8526.8	4520.2	1616.3	671.0	297.6	229.5	210.1	190.6	188.7	186.7
47.5°	9857.2	8746.6	4531.8	1548.2	622.4	249.0	239.2	194.5	171.2	167.3	167.3
50°	9670.5	8921.7	4633.0	1480.1	560.2	202.3	235.3	182.8	151.7	145.9	147.8
52.5°	9693.8	9127.8	4846.9	1384.8	482.4	161.4	190.6	173.1	138.1	128.4	130.3
55°	9320.4	8910.0	4876.1	1283.7	377.3	124.5	145.9	151.7	116.7	112.8	112.8
57.5°	8023.1	7544.6	4302.3	1040.6	249.0	103.1	105.0	132.3	101.1	97.2	99.2
60°	6865.8	6056.7	3462.1	686.6	155.6	81.7	75.9	134.2	89.5	87.5	93.4
62.5°	6259.0	4977.2	2625.7	426.0	107.0	62.2	52.5	108.9	77.8	77.8	85.6
65°	4522.1	3343.4	1526.8	223.7	75.9	48.6	38.9	62.2	64.2	66.1	70.0
67.5°	2800.8	1688.3	643.8	108.9	50.6	33.1	25.3	38.9	42.8	42.8	46.7
70°	1382.9	673.0	213.9	62.2	38.9	27.2	17.5	21.4	21.4	19.4	21.4
72.5°	427.9	202.3	54.5	38.9	27.2	17.5	9.7	7.8	3.9	0.0	1.9
75°	48.6	38.9	35.0	27.2	17.5	7.8	1.9	0.0	0.0	0.0	0.0
77.5°	29.2	33.1	33.1	27.2	17.5	5.8	0.0	0.0	0.0	0.0	0.0
80°	23.3	25.3	27.2	25.3	15.6	7.8	0.0	0.0	0.0	0.0	0.0
82.5°	29.2	33.1	37.0	33.1	21.4	9.7	3.9	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	5.8	1.9	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5014.2	5014.2	5014.2	5014.2	5014.2	5014.2	5014.2	5014.2	5014.2	5014.2	5014.2
2.5°	4263.4	4220.6	4280.9	4191.5	4189.5	4191.5	4166.2	4142.8	4179.8	4279.0	4288.7
5°	3254.0	3345.4	3374.6	3469.9	3417.3	3339.5	3355.1	3302.6	3431.0	3487.4	3442.6
7.5°	2369.0	2363.2	2559.6	2571.3	2596.6	2598.5	2594.6	2491.5	2386.5	2409.8	2479.9
10°	1838.0	1738.8	1834.1	1824.4	1886.6	1869.1	1894.4	1783.6	1820.5	1820.5	1865.2
12.5°	1497.6	1392.6	1375.1	1349.8	1375.1	1384.8	1394.6	1373.2	1435.4	1464.6	1495.7
15°	1143.7	1085.3	1069.7	1021.1	1028.9	1056.1	1079.5	1089.2	1069.7	1114.5	1118.4
17.5°	830.5	828.6	838.3	836.3	828.6	822.7	820.8	795.5	787.7	791.6	807.2
20°	630.2	645.7	678.8	711.9	729.4	708.0	678.8	636.0	618.5	622.4	624.3
22.5°	538.8	562.1	606.8	643.8	661.3	622.4	569.9	532.9	525.1	523.2	521.3
25°	488.2	515.4	548.5	560.2	558.2	534.9	496.0	480.4	476.5	472.6	455.1
27.5°	461.0	470.7	476.5	490.1	496.0	480.4	470.7	447.3	443.5	443.5	431.8
30°	445.4	439.6	447.3	437.6	445.4	433.7	435.7	435.7	426.0	429.8	429.8
32.5°	414.3	416.2	416.2	396.8	402.6	389.0	402.6	414.3	416.2	418.2	433.7
35°	303.4	338.4	355.9	355.9	361.8	352.0	350.1	336.5	319.0	301.5	293.7
37.5°	266.5	280.1	303.4	317.0	326.8	319.0	301.5	280.1	270.4	262.6	254.8
40°	237.3	249.0	264.5	280.1	299.5	289.8	262.6	252.8	241.2	241.2	233.4
42.5°	213.9	219.8	229.5	252.8	274.2	254.8	235.3	227.6	221.7	219.8	217.8
45°	192.6	194.5	204.2	223.7	249.0	229.5	210.1	200.3	202.3	204.2	202.3
47.5°	173.1	177.0	182.8	206.2	221.7	212.0	190.6	184.8	184.8	184.8	186.7
50°	149.8	159.5	171.2	190.6	202.3	196.4	178.9	171.2	167.3	167.3	169.2
52.5°	134.2	142.0	157.5	180.9	196.4	186.7	169.2	157.5	149.8	147.8	151.7
55°	116.7	130.3	155.6	173.1	194.5	184.8	165.3	151.7	138.1	136.1	136.1
57.5°	105.0	126.4	149.8	171.2	188.7	180.9	165.3	147.8	130.3	128.4	128.4
60°	99.2	122.5	145.9	165.3	188.7	177.0	163.4	143.9	124.5	124.5	122.5
62.5°	93.4	114.8	138.1	157.5	180.9	171.2	157.5	138.1	118.6	118.6	114.8
65°	77.8	99.2	114.8	132.3	157.5	147.8	134.2	120.6	105.0	101.1	103.1
67.5°	54.5	68.1	83.6	101.1	116.7	112.8	107.0	97.2	83.6	81.7	79.7
70°	27.2	37.0	50.6	68.1	81.7	77.8	73.9	66.1	58.3	56.4	56.4
72.5°	3.9	11.7	21.4	31.1	42.8	44.7	42.8	40.8	38.9	37.0	38.9
75°	0.0	0.0	0.0	7.8	17.5	21.4	25.3	29.2	29.2	25.3	31.1
77.5°	0.0	0.0	0.0	0.0	1.9	9.7	19.4	25.3	31.1	27.2	37.0
80°	0.0	0.0	0.0	0.0	1.9	11.7	19.4	27.2	31.1	27.2	38.9
82.5°	0.0	0.0	0.0	0.0	1.9	13.6	19.4	25.3	29.2	27.2	35.0
85°	0.0	0.0	0.0	0.0	5.8	11.7	7.8	3.9	1.9	1.9	5.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5014.2	5014.2	5014.2	5014.2	5014.2	5014.2	5014.2	5014.2	5014.2	5014.2
2.5°	4343.2	4481.3	4629.1	4685.5	4860.5	4992.8	5082.3	5274.8	5304.0	5305.9
5°	3489.3	3559.3	3812.2	3930.8	4191.5	4393.7	4609.6	4920.8	5128.9	5144.5
7.5°	2479.9	2674.4	2781.3	3090.6	3411.5	3728.5	4049.5	4411.2	4652.4	4658.2
10°	1995.6	2122.0	2312.6	2544.0	2814.4	3137.3	3565.2	3985.3	4230.4	4290.6
12.5°	1606.6	1828.3	2046.1	2285.4	2491.5	2734.7	3195.6	3755.8	3958.1	4078.6
15°	1237.0	1439.3	1696.0	1976.1	2209.5	2534.3	3059.5	3699.4	4039.7	4080.6
17.5°	912.2	1093.1	1330.4	1594.9	1945.0	2406.0	3082.8	3985.3	4306.2	4374.3
20°	655.5	760.5	947.2	1254.5	1699.9	2256.2	3106.1	4275.1	4763.3	4880.0
22.5°	519.3	562.1	684.6	956.9	1425.7	2098.6	3271.5	4829.4	5391.5	5560.7
25°	451.2	474.6	532.9	754.7	1252.6	2083.1	3536.0	5494.6	6227.9	6350.4
27.5°	435.7	439.6	490.1	692.4	1159.2	1980.0	3637.1	5967.2	6749.1	6873.6
30°	459.0	521.3	525.1	585.4	986.1	1775.8	3689.6	6424.3	7190.6	7282.0
32.5°	396.8	377.3	390.9	453.2	867.5	1657.1	3788.8	6823.0	7694.4	7758.6
35°	276.2	289.8	320.9	392.9	758.5	1532.7	3814.1	7262.6	8172.8	8239.0
37.5°	254.8	262.6	287.9	334.5	667.1	1462.6	3779.1	7583.5	8668.8	8760.2
40°	237.3	247.0	260.6	303.4	599.1	1384.8	3730.5	7873.3	8972.2	9197.9
42.5°	223.7	231.5	243.1	289.8	540.7	1307.0	3662.4	8281.8	9244.5	9441.0
45°	208.1	219.8	233.4	282.0	507.6	1254.5	3611.8	8256.5	9402.1	9507.1
47.5°	192.6	212.0	227.6	262.6	497.9	1229.2	3633.2	8161.2	9273.7	9201.7
50°	177.0	202.3	229.5	217.8	474.6	1178.7	3658.5	8291.5	8968.3	8954.7
52.5°	163.4	192.6	213.9	178.9	422.1	1130.0	3903.6	8462.6	9184.2	9003.4
55°	143.9	173.1	171.2	143.9	342.3	1093.1	4096.1	8466.5	9038.4	9106.4
57.5°	130.3	153.7	134.2	120.6	252.8	914.1	3783.0	7099.2	7737.2	7857.8
60°	120.6	149.8	101.1	95.3	165.3	659.4	3302.6	5498.5	6150.1	6377.6
62.5°	110.9	142.0	79.7	77.8	114.8	468.7	2715.2	4601.8	5300.1	5609.3
65°	97.2	101.1	64.2	60.3	81.7	252.8	1653.2	3168.4	3961.9	4076.7
67.5°	79.7	77.8	52.5	48.6	54.5	122.5	729.4	1587.1	2297.0	2489.6
70°	64.2	64.2	44.7	38.9	38.9	56.4	190.6	632.1	1038.6	1149.5
72.5°	46.7	48.6	35.0	31.1	29.2	27.2	31.1	126.4	272.3	348.2
75°	40.8	42.8	35.0	27.2	21.4	17.5	13.6	11.7	15.6	25.3
77.5°	44.7	44.7	37.0	25.3	19.4	13.6	7.8	3.9	3.9	1.9
80°	56.4	58.3	48.6	33.1	23.3	15.6	9.7	3.9	1.9	1.9
82.5°	60.3	66.1	54.5	40.8	29.2	17.5	9.7	1.9	0.0	0.0
85°	15.6	25.3	42.8	37.0	29.2	17.5	9.7	1.9	0.0	0.0
87.5°	0.0	1.9	5.8	5.8	7.8	7.8	5.8	1.9	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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