

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: P528107

Luminaire Tested: **GALN-SA3A-830-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528107
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-SA3A-830-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 5997 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 93
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



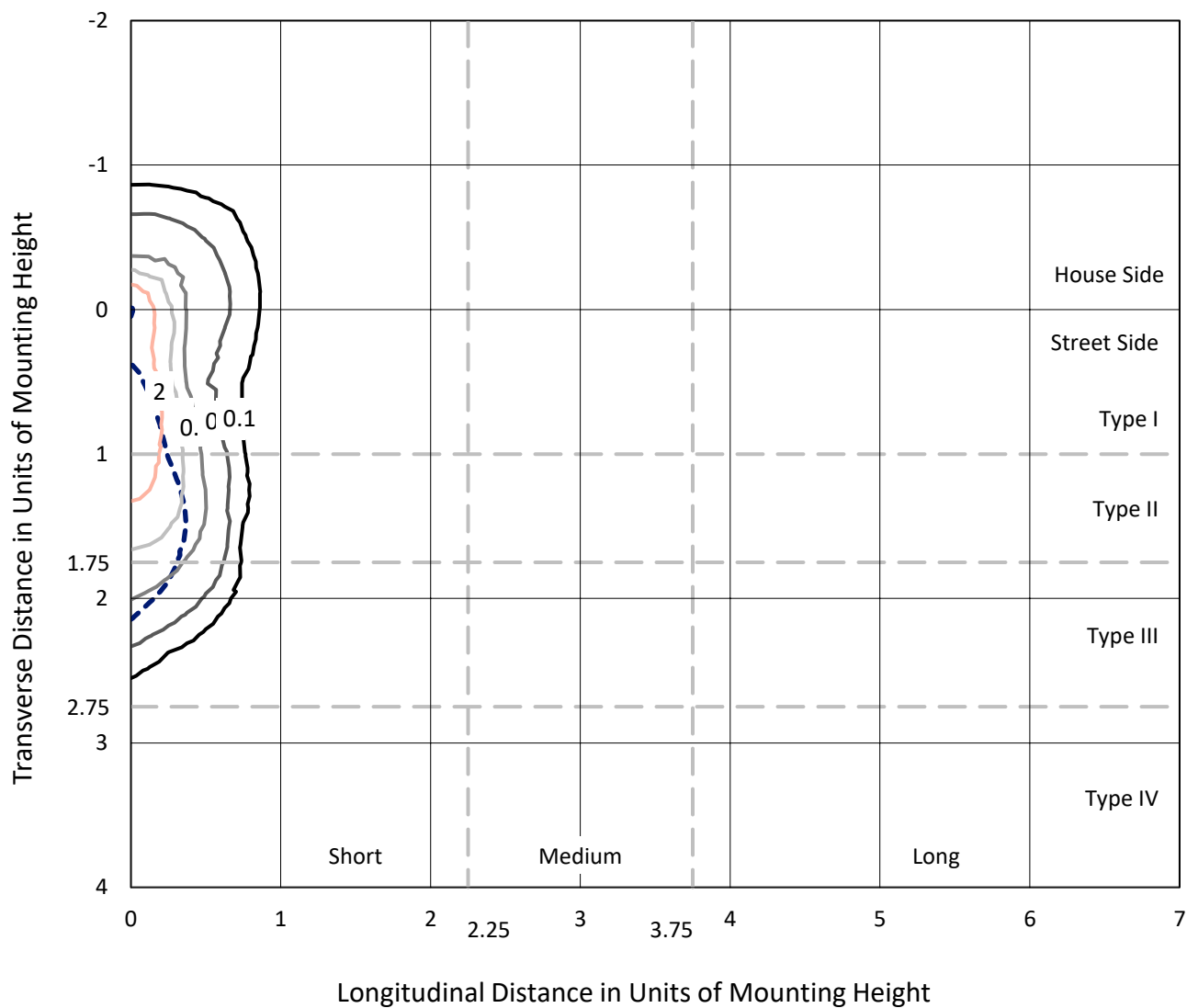
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



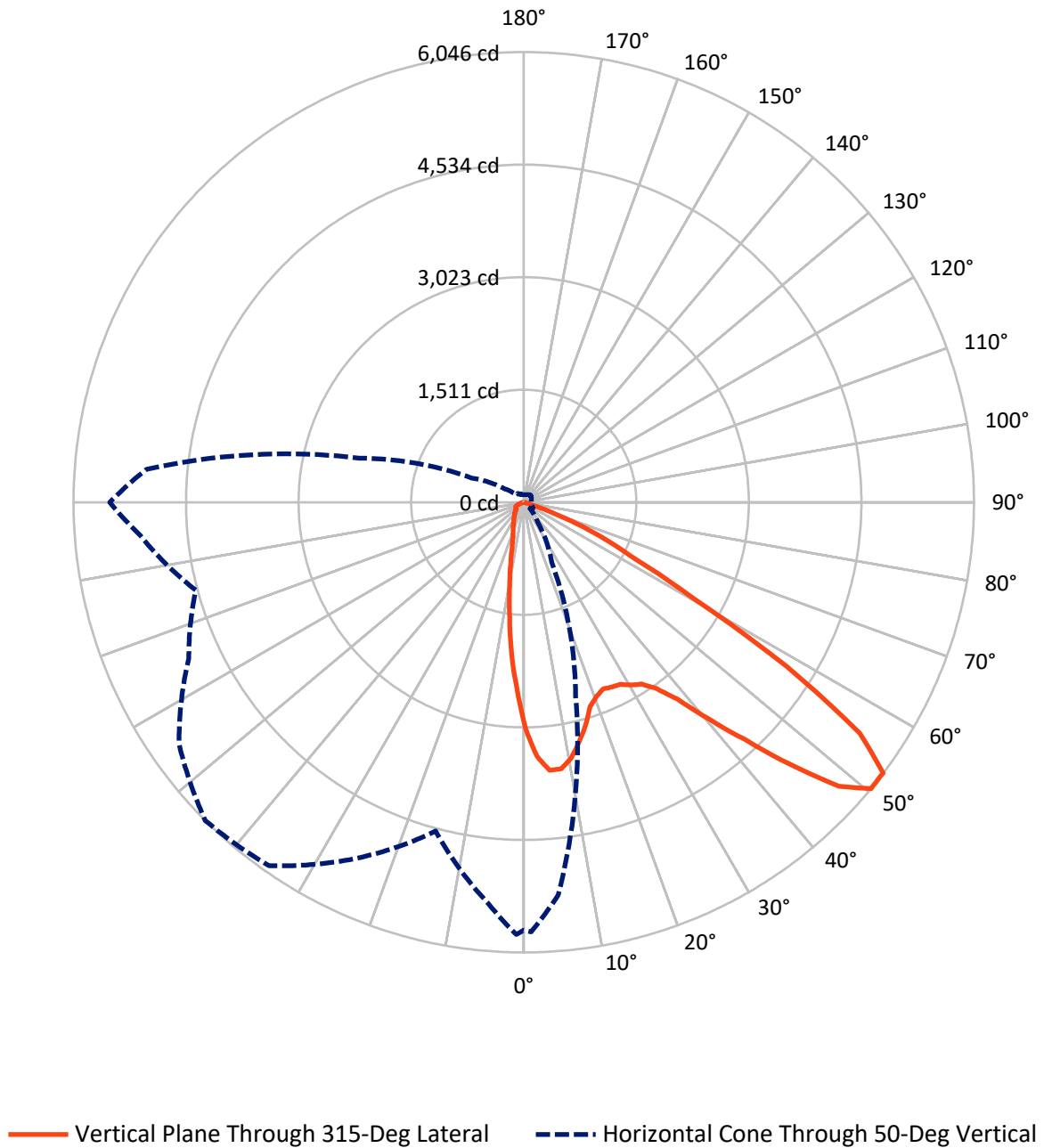
Based on 25 foot mounting height. Maximum calculated value = 4.9 fc

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	1201.2	0.0	1201.2
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	4795.8	0.0	4795.8
	% Fixture	80.0	0.0	80.0
Total	Lumens	5997.0	0.0	5997.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.7	3.7
10°-20°	440.6	7.3
20°-30°	661.9	11.0
30°-40°	993.4	16.6
40°-50°	1396.2	23.3
50°-60°	1506.1	25.1
60°-70°	699.3	11.7
70°-80°	65.8	1.1
80°-90°	12.1	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°	5997.0	100.0
0°-180°	5997.0	100.0

Coefficient of Utilization



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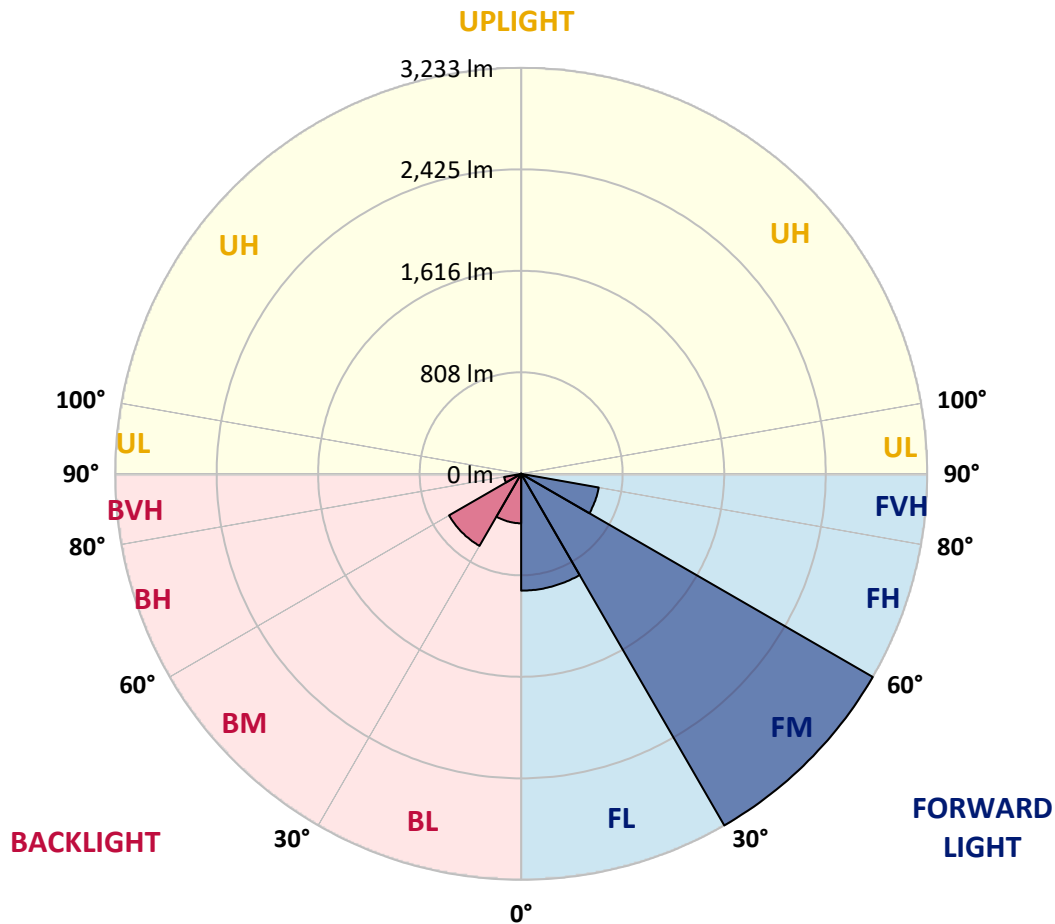
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	930.4	15.5			
FM	(30°-60°)	3232.8	53.9			
FH	(60°-80°)	627.1	10.5			G0/660
FVH	(80°-90°)	5.5	0.1			G0/10
BL	(0°-30°)	393.7	6.6	B1/500		
BM	(30°-60°)	662.9	11.1	B1/1000		
BH	(60°-80°)	137.9	2.3	B1/500		G1/500
BVH	(80°-90°)	6.7	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°	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2
2.5°	3161.4	3112.6	3050.8	2999.6	2923.4	2770.0	2728.3	2678.3	2636.7	2580.8	2502.2
5°	2874.7	2859.2	2830.6	2637.9	2498.7	2313.1	2160.8	2096.5	2012.0	1943.0	1893.0
7.5°	2655.7	2593.9	2503.4	2309.5	2087.0	1888.3	1719.3	1620.6	1508.7	1470.6	1402.8
10°	2421.3	2435.6	2302.3	2029.9	1761.0	1600.3	1495.6	1400.4	1299.3	1232.7	1136.3
12.5°	2346.4	2300.0	2197.6	1860.9	1631.3	1481.4	1354.0	1236.2	1129.2	1022.1	929.3
15°	2395.2	2323.8	2181.0	1825.2	1531.3	1344.5	1185.1	1025.6	926.9	790.1	693.7
17.5°	2570.1	2512.9	2321.4	1863.3	1480.2	1213.6	976.9	812.7	661.6	537.8	489.0
20°	2861.6	2780.7	2540.3	1912.1	1404.0	1055.4	792.4	590.2	447.4	395.0	367.7
22.5°	3147.1	3103.1	2799.7	2006.1	1336.2	915.0	594.9	397.4	334.3	324.8	307.0
25°	3690.9	3558.8	3195.9	2176.2	1283.8	782.9	448.6	320.1	283.2	276.0	278.4
27.5°	4014.5	3903.9	3562.4	2289.3	1225.5	681.8	379.6	293.9	268.9	253.4	247.5
30°	4325.1	4196.6	3744.4	2355.9	1100.6	574.7	336.7	282.0	276.0	253.4	246.3
32.5°	4564.2	4438.1	4007.4	2455.8	1049.4	505.7	277.2	220.1	204.7	202.3	223.7
35°	4930.7	4796.3	4232.3	2510.6	1010.2	470.0	240.3	196.3	178.5	171.3	172.5
37.5°	5272.2	5180.6	4440.5	2532.0	968.5	459.3	215.4	176.1	160.6	155.9	154.7
40°	5557.7	5353.1	4638.0	2554.6	950.7	439.1	199.9	160.6	149.9	142.8	142.8
42.5°	5688.6	5480.4	4859.3	2541.5	945.9	406.9	199.9	147.5	139.2	132.1	130.9
45°	5660.1	5575.6	4958.1	2535.6	945.9	374.8	182.0	144.0	132.1	122.6	120.2
47.5°	5733.8	5623.2	5081.8	2560.5	926.9	352.2	153.5	151.1	124.9	113.0	110.7
50°	5746.9	5768.4	5297.2	2690.2	885.2	323.6	120.2	148.7	120.2	102.3	99.9
52°	5832.6	5699.3	5362.6	2759.2	841.2	302.2	101.1	127.3	115.4	95.2	92.8
52.5°	5714.8	5801.7	5378.1	2784.2	846.0	287.9	97.6	124.9	113.0	95.2	89.2
55°	5582.7	5666.0	5315.0	2837.8	775.8	226.1	76.1	90.4	102.3	83.3	79.7
57.5°	4852.2	4936.7	4619.0	2598.6	631.8	159.4	63.1	67.8	90.4	77.3	73.8
60°	4313.2	4252.5	3876.5	2167.9	448.6	89.2	50.0	52.4	98.8	71.4	70.2
62.5°	3941.9	3812.3	3239.9	1674.1	273.7	59.5	39.3	40.5	76.1	66.6	66.6
65°	2916.3	2771.1	2152.4	1012.6	134.5	41.6	29.7	32.1	47.6	57.1	57.1
67.5°	1664.6	1608.7	1039.9	456.9	55.9	26.2	22.6	25.0	36.9	46.4	44.0
70°	765.1	686.5	399.8	96.4	26.2	17.8	17.8	20.2	29.7	34.5	32.1
72.5°	223.7	211.8	97.6	15.5	10.7	10.7	11.9	15.5	22.6	26.2	23.8
75°	16.7	10.7	7.1	4.8	4.8	7.1	9.5	15.5	22.6	25.0	20.2
77.5°	1.2	2.4	1.2	1.2	3.6	7.1	10.7	19.0	29.7	30.9	22.6
80°	1.2	1.2	0.0	1.2	3.6	7.1	11.9	21.4	33.3	35.7	19.0
82.5°	0.0	0.0	0.0	1.2	4.8	9.5	14.3	22.6	30.9	38.1	20.2
85°	0.0	0.0	0.0	1.2	7.1	13.1	16.7	5.9	3.6	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°	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2
2.5°	2558.2	2527.2	2515.3	2526.0	2522.5	2518.9	2584.3	2570.1	2567.7	2589.1	2584.3
5°	1920.4	1865.7	2015.6	1954.9	2018.0	2056.0	2063.2	2066.8	2110.8	2064.4	2125.1
7.5°	1368.3	1382.6	1381.4	1421.9	1494.4	1558.7	1596.8	1567.0	1564.6	1558.7	1532.5
10°	1093.5	1068.5	1063.7	1054.2	1076.8	1131.5	1177.9	1141.1	1114.9	1150.6	1139.9
12.5°	893.6	859.1	840.0	802.0	803.1	840.0	840.0	840.0	866.2	886.4	901.9
15°	685.3	656.8	656.8	618.7	610.4	611.6	630.6	633.0	674.6	686.5	692.5
17.5°	479.5	464.0	481.9	497.4	487.8	490.2	497.4	499.7	505.7	500.9	512.8
20°	368.9	366.5	371.2	398.6	418.8	430.7	422.4	410.5	403.4	386.7	386.7
22.5°	312.9	317.7	326.0	348.6	374.8	381.9	372.4	345.1	323.6	321.3	322.4
25°	278.4	283.2	296.3	310.5	324.8	336.7	327.2	307.0	295.1	284.4	284.4
27.5°	257.0	259.4	266.5	277.2	289.1	298.7	295.1	284.4	271.3	266.5	255.8
30°	240.3	243.9	252.2	254.6	265.3	270.1	264.1	261.8	253.4	247.5	243.9
32.5°	232.0	230.8	236.8	239.2	240.3	243.9	236.8	240.3	239.2	229.6	226.1
35°	174.9	184.4	199.9	213.0	216.6	221.3	220.1	215.4	202.3	191.6	178.5
37.5°	157.1	163.0	171.3	182.0	196.3	202.3	199.9	188.0	172.5	165.4	163.0
40°	145.2	148.7	155.9	163.0	177.3	188.0	179.7	169.0	157.1	151.1	147.5
42.5°	134.5	135.6	139.2	146.4	157.1	173.7	159.4	145.2	140.4	136.8	134.5
45°	122.6	122.6	127.3	130.9	142.8	158.2	144.0	130.9	128.5	126.1	124.9
47.5°	113.0	114.2	116.6	121.4	130.9	141.6	132.1	121.4	115.4	114.2	111.8
50°	101.1	102.3	107.1	111.8	123.7	129.7	123.7	111.8	105.9	102.3	102.3
52°	91.6	95.2	99.9	109.5	117.8	127.3	120.2	107.1	99.9	96.4	94.0
52.5°	90.4	92.8	97.6	108.3	117.8	126.1	119.0	105.9	97.6	95.2	92.8
55°	80.9	84.5	92.8	105.9	116.6	126.1	116.6	104.7	92.8	86.9	84.5
57.5°	77.3	79.7	90.4	107.1	115.4	126.1	116.6	104.7	92.8	82.1	79.7
60°	73.8	78.5	90.4	103.5	114.2	127.3	117.8	103.5	90.4	77.3	77.3
62.5°	70.2	73.8	89.2	101.1	109.5	122.6	113.0	101.1	86.9	73.8	72.6
65°	60.7	66.6	78.5	84.5	94.0	105.9	96.4	88.0	76.1	65.4	64.3
67.5°	46.4	48.8	58.3	65.4	71.4	82.1	77.3	66.6	58.3	50.0	50.0
70°	32.1	34.5	41.6	45.2	51.2	57.1	53.5	45.2	39.3	34.5	33.3
72.5°	22.6	23.8	26.2	28.6	30.9	33.3	32.1	26.2	22.6	21.4	20.2
75°	17.8	20.2	21.4	20.2	19.0	17.8	17.8	15.5	13.1	11.9	11.9
77.5°	17.8	19.0	17.8	15.5	13.1	11.9	10.7	9.5	7.1	5.9	7.1
80°	15.5	15.5	15.5	13.1	11.9	10.7	9.5	8.3	7.1	5.9	5.9
82.5°	16.7	16.7	15.5	13.1	13.1	10.7	10.7	9.5	8.3	5.9	5.9
85°	0.0	0.0	0.0	2.4	5.9	10.7	10.7	9.5	8.3	7.1	7.1
87.5°	0.0	0.0	0.0	0.0	1.2	2.4	4.8	5.9	7.1	7.1	7.1
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°	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2
2.5°	2627.2	2672.4	2758.1	2843.7	2896.1	2957.9	3069.8	3129.3	3206.6	3244.7	3319.7
5°	2116.7	2223.8	2261.9	2359.5	2464.2	2568.9	2735.4	2918.7	3071.0	3175.7	3311.3
7.5°	1544.4	1569.4	1716.9	1782.4	1953.7	2144.1	2371.4	2602.2	2794.9	2966.3	3069.8
10°	1157.7	1249.3	1342.1	1467.1	1605.1	1801.4	2019.2	2273.8	2523.7	2695.0	2825.9
12.5°	930.5	1003.0	1126.8	1261.2	1431.4	1561.1	1780.0	2032.2	2355.9	2523.7	2696.2
15°	704.4	797.2	937.6	1076.8	1256.5	1393.3	1614.6	1932.3	2348.7	2579.6	2728.3
17.5°	522.3	585.4	711.5	867.4	1050.6	1243.4	1542.0	1921.6	2428.5	2703.3	2856.8
20°	399.8	421.2	500.9	640.1	838.8	1091.1	1424.2	1968.0	2664.1	3004.3	3160.2
22.5°	323.6	333.2	364.1	460.5	653.2	957.8	1368.3	2000.1	2929.4	3364.9	3573.1
25°	282.0	279.6	299.8	341.5	510.4	832.9	1296.9	2121.5	3254.2	3788.5	3975.3
27.5°	257.0	257.0	266.5	296.3	423.6	752.0	1251.7	2208.3	3581.4	4160.9	4262.0
30°	243.9	246.3	273.7	283.2	352.2	655.6	1176.8	2296.4	3894.4	4398.8	4538.1
32.5°	226.1	216.6	210.6	234.4	296.3	568.7	1101.8	2333.3	4147.8	4690.4	4809.3
35°	173.7	169.0	176.1	193.9	254.6	495.0	1018.5	2374.9	4439.3	5028.3	5052.1
37.5°	157.1	155.9	160.6	176.1	214.2	430.7	959.0	2364.2	4661.8	5307.9	5243.6
40°	145.2	145.2	148.7	161.8	191.6	385.5	897.1	2354.7	4877.2	5622.0	5434.0
42.5°	135.6	135.6	141.6	149.9	182.0	355.8	850.7	2341.6	5058.0	5814.8	5545.9
45°	122.6	126.1	135.6	144.0	184.4	335.5	816.2	2291.6	5119.9	5812.4	5492.3
47.5°	113.0	117.8	127.3	139.2	166.6	329.6	792.4	2247.6	5098.5	5669.6	5324.5
50°	102.3	108.3	121.4	141.6	141.6	317.7	767.4	2286.9	5083.0	5558.9	5163.9
52°	95.2	99.9	116.6	138.0	123.7	292.7	752.0	2363.0	5146.1	5544.7	5092.5
52.5°	94.0	97.6	113.0	135.6	117.8	287.9	741.3	2380.9	5166.3	5509.0	5141.3
55°	83.3	88.0	103.5	105.9	96.4	236.8	706.8	2421.3	5066.3	5438.8	5094.9
57.5°	78.5	80.9	91.6	86.9	83.3	178.5	608.0	2358.3	4500.0	4830.8	4740.3
60°	72.6	75.0	85.7	67.8	70.2	124.9	456.9	2047.7	3613.5	4025.2	4188.2
62.5°	70.2	69.0	80.9	54.7	59.5	90.4	322.4	1664.6	2784.2	3313.7	3595.7
65°	61.9	60.7	58.3	46.4	51.2	70.2	192.8	1086.3	1962.0	2507.0	2661.7
67.5°	47.6	50.0	42.8	36.9	42.8	54.7	107.1	486.6	1029.2	1504.0	1628.9
70°	33.3	35.7	34.5	32.1	38.1	45.2	61.9	166.6	426.0	790.1	871.0
72.5°	20.2	25.0	26.2	27.4	33.3	39.3	44.0	53.5	113.0	279.6	347.4
75°	11.9	16.7	20.2	23.8	27.4	33.3	36.9	38.1	39.3	52.4	84.5
77.5°	8.3	11.9	17.8	22.6	27.4	33.3	39.3	41.6	39.3	36.9	39.3
80°	7.1	11.9	16.7	21.4	28.6	34.5	39.3	39.3	38.1	33.3	35.7
82.5°	7.1	11.9	17.8	22.6	27.4	33.3	38.1	39.3	35.7	33.3	34.5
85°	8.3	13.1	19.0	23.8	29.7	27.4	25.0	20.2	19.0	15.5	16.7
87.5°	8.3	11.9	11.9	13.1	14.3	14.3	14.3	13.1	10.7	9.5	9.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2
2.5°	3323.2	3418.4	3414.8	3417.2	3402.9	3306.6	3260.2	3142.4	3175.7	3161.4
5°	3450.5	3544.5	3625.4	3615.9	3506.5	3375.6	3181.6	2998.4	2948.4	2874.7
7.5°	3323.2	3549.3	3624.3	3613.5	3451.7	3284.0	2974.6	2791.4	2704.5	2655.7
10°	3121.0	3382.7	3475.5	3494.6	3385.1	3130.5	2846.1	2552.2	2505.8	2421.3
12.5°	3005.5	3195.9	3253.0	3304.2	3266.1	3075.7	2748.5	2466.5	2402.3	2346.4
15°	2911.5	3024.6	3048.4	3106.7	3129.3	3027.0	2799.7	2559.3	2401.1	2395.2
17.5°	2998.4	2952.0	2865.1	2883.0	2954.4	3028.1	2931.8	2742.6	2589.1	2570.1
20°	3142.4	2937.7	2741.4	2785.4	2844.9	3071.0	3131.7	2998.4	2910.4	2861.6
22.5°	3307.8	2962.7	2702.1	2723.5	2836.6	3167.4	3455.3	3381.5	3217.3	3147.1
25°	3613.5	3031.7	2733.1	2747.3	2902.0	3301.8	3748.0	3802.7	3705.2	3690.9
27.5°	3912.2	3210.2	2800.9	2768.8	2935.3	3432.7	3925.3	4219.2	4047.8	4014.5
30°	4064.5	3355.4	2902.0	2847.3	3073.4	3512.4	4032.4	4490.5	4340.5	4325.1
32.5°	4297.7	3487.4	2980.6	2910.4	3150.7	3611.2	4232.3	4786.7	4641.6	4564.2
35°	4395.3	3631.4	3153.1	3071.0	3372.0	3749.2	4334.6	5050.9	5005.7	4930.7
37.5°	4583.3	3786.1	3356.5	3351.8	3639.7	3928.9	4519.0	5410.2	5401.9	5272.2
40°	4598.7	3955.0	3677.8	3827.7	4053.8	4241.8	4680.8	5510.2	5645.8	5557.7
42.5°	4622.5	4251.3	4233.5	4357.2	4551.1	4510.7	4686.8	5534.0	5741.0	5688.6
45°	4633.2	4547.6	4798.6	5027.1	5108.0	4862.9	4630.9	5488.7	5791.0	5660.1
47.5°	4547.6	4802.2	5255.5	5697.0	5720.8	5079.4	4607.1	5442.3	5820.7	5733.8
50°	4559.5	4961.6	5650.6	6045.6	5958.7	5271.0	4570.2	5413.8	5805.2	5746.9
52°	4530.9	4965.2	5706.5	6038.4	5977.8	5165.1	4507.1	5304.3	5791.0	5832.6
52.5°	4563.0	4943.8	5648.2	6043.2	5964.7	5217.5	4498.8	5365.0	5799.3	5714.8
55°	4452.4	4689.2	5306.7	5474.5	5462.6	4735.6	4243.0	5163.9	5581.5	5582.7
57.5°	4024.0	4064.5	4162.1	4158.5	4103.8	3723.0	3629.0	4748.7	4975.9	4852.2
60°	3545.7	2975.8	2712.8	2605.8	2545.1	2483.2	3210.2	4344.1	4365.5	4313.2
62.5°	3063.8	2063.2	1713.4	1683.6	1697.9	1924.0	3103.1	4183.5	4055.0	3941.9
65°	2472.5	1504.0	1244.6	1205.3	1344.5	1588.4	2511.8	3207.8	3010.3	2916.3
67.5°	1552.7	1097.0	841.2	767.4	935.2	1093.5	1650.3	2015.6	1794.3	1664.6
70°	920.9	612.8	380.7	341.5	384.3	583.0	924.5	1005.4	831.7	765.1
72.5°	362.9	224.9	105.9	90.4	94.0	204.7	340.3	332.0	251.1	223.7
75°	97.6	67.8	36.9	29.7	25.0	38.1	54.7	35.7	13.1	16.7
77.5°	45.2	40.5	32.1	25.0	19.0	14.3	7.1	2.4	2.4	1.2
80°	39.3	34.5	29.7	25.0	19.0	11.9	5.9	1.2	1.2	1.2
82.5°	36.9	32.1	27.4	22.6	17.8	11.9	5.9	1.2	0.0	0.0
85°	15.5	20.2	22.6	21.4	19.0	11.9	5.9	1.2	0.0	0.0
87.5°	8.3	7.1	5.9	4.8	3.6	2.4	2.4	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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