

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: P453017

Luminaire Tested: **GALN-SA4A-730-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11832 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

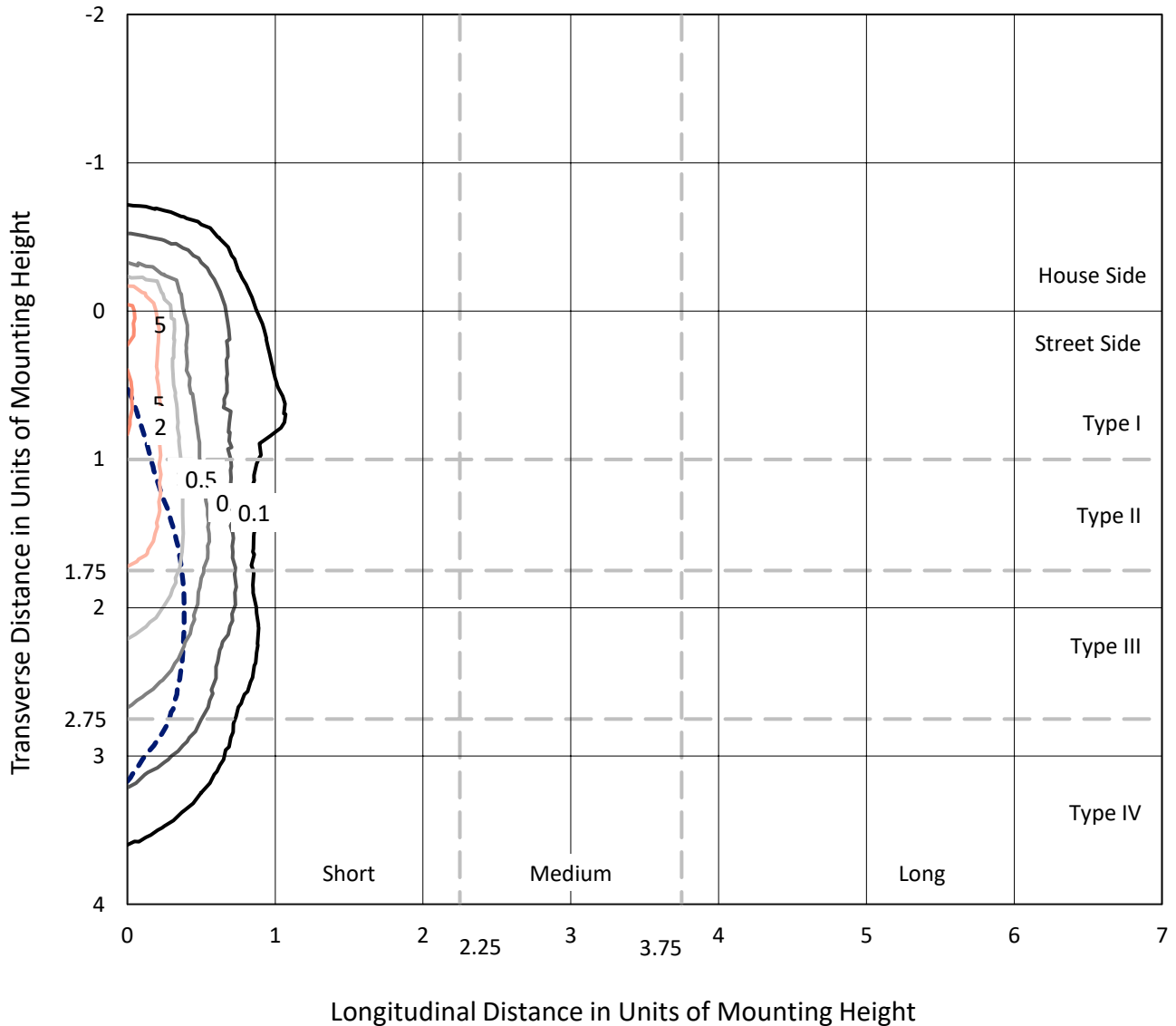
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

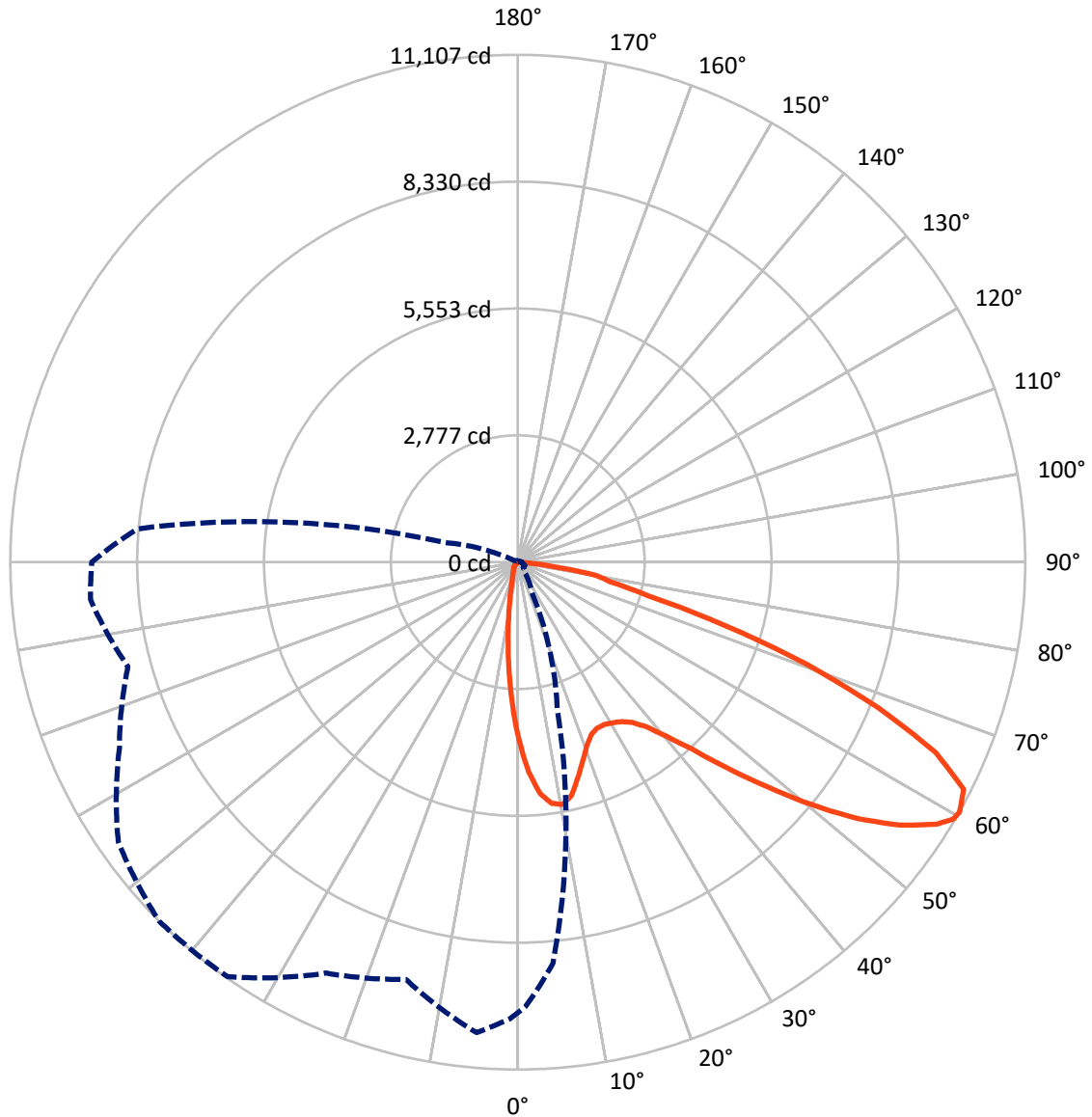
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1459.4	0.0	1459.4
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	10372.6	0.0	10372.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	11832.0	0.0	11832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.9	2.5
10°-20°	577.7	4.9
20°-30°	847.0	7.2
30°-40°	1259.6	10.6
40°-50°	1833.1	15.5
50°-60°	2643.6	22.3
60°-70°	2907.6	24.6
70°-80°	1302.4	11.0
80°-90°	170.2	1.4
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°	11832.0	100.0
0°-180°	11832.0	100.0

Coefficient of Utilization



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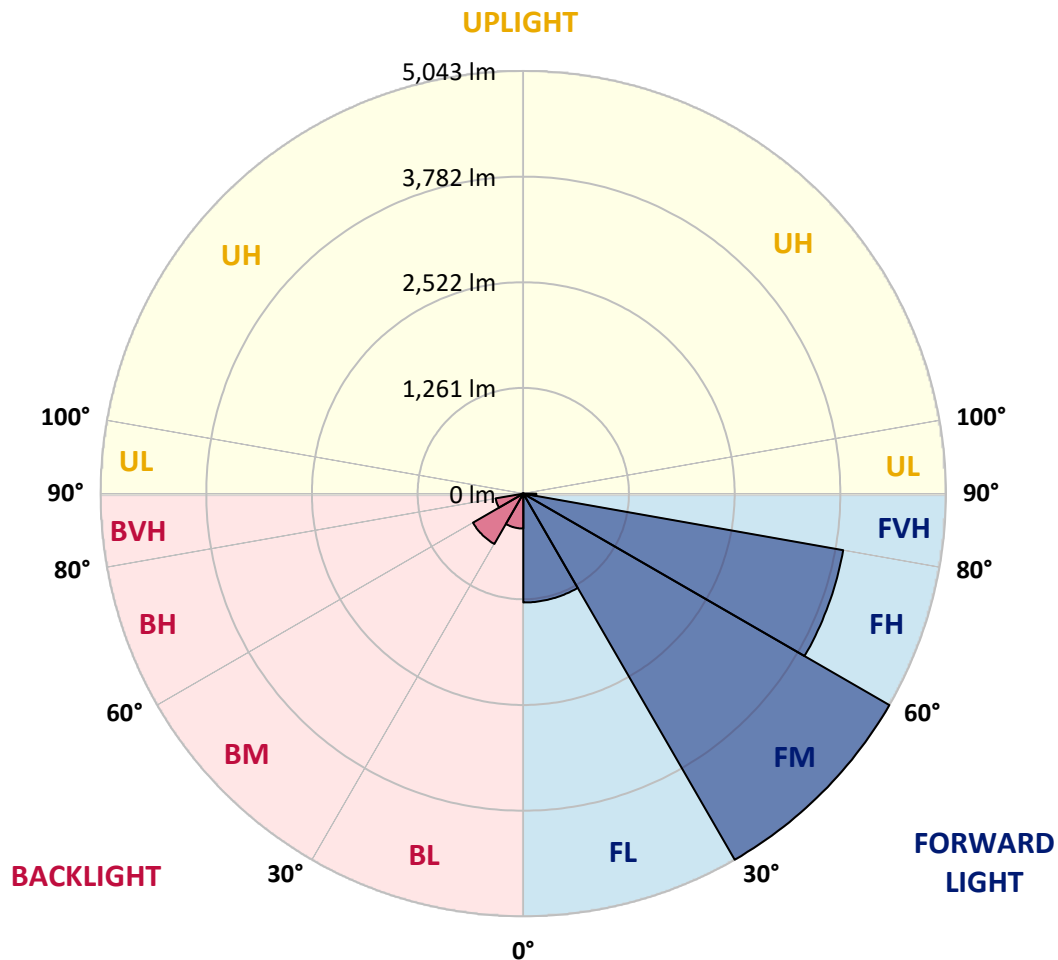
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1298.5	11.0			
FM	(30°-60°)	5043.2	42.6			
FH	(60°-80°)	3875.3	32.8			G2/5000
FVH	(80°-90°)	155.6	1.3			G2/225
BL	(0°-30°)	417.0	3.5	B1/500		
BM	(30°-60°)	693.2	5.9	B1/1000		
BH	(60°-80°)	334.7	2.8	B1/500		G1/500
BVH	(80°-90°)	14.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6
2.5°	4299.2	4280.3	4237.1	4105.8	3991.6	3842.3	3691.2	3572.5	3499.6	3365.6	3304.4
5°	4165.2	4174.2	4049.2	3779.3	3478.9	3273.9	3049.9	2871.8	2675.8	2551.6	2421.2
7.5°	3815.3	3797.3	3661.5	3285.6	2920.4	2623.6	2340.3	2110.0	1965.2	1849.2	1752.1
10°	3515.8	3502.3	3328.7	2844.8	2452.7	2230.5	2039.0	1837.5	1681.9	1511.9	1376.1
12.5°	3327.8	3297.2	3097.6	2592.1	2272.8	2066.0	1857.3	1647.7	1432.8	1261.0	1096.4
15°	3264.9	3220.8	2998.6	2504.9	2157.7	1895.1	1633.3	1392.3	1145.0	955.2	831.1
17.5°	3379.1	3306.2	3069.7	2489.6	2020.1	1672.0	1350.0	1036.1	778.9	634.1	557.6
20°	3640.8	3557.2	3249.6	2474.3	1867.2	1422.0	1026.2	732.1	538.7	459.6	417.3
22.5°	4029.4	3914.2	3515.8	2498.6	1726.0	1178.2	741.1	517.2	428.1	378.7	349.0
25°	4496.2	4399.9	3853.1	2584.9	1614.4	986.7	572.9	422.7	360.7	330.1	307.6
27.5°	5007.9	4854.1	4289.3	2688.3	1512.8	838.3	502.8	377.8	321.1	293.2	281.5
30°	5372.2	5252.6	4654.5	2760.3	1386.0	726.7	459.6	372.4	322.0	288.7	267.1
32.5°	5732.0	5579.1	4960.3	2793.6	1293.4	649.4	397.5	324.7	282.4	265.3	243.7
35°	6116.9	5956.8	5265.2	2775.6	1224.1	598.1	360.7	289.6	241.9	213.2	191.6
37.5°	6506.3	6337.3	5568.3	2710.8	1180.9	577.4	331.9	275.2	228.5	198.8	175.4
40°	6968.6	6742.9	5852.5	2657.8	1136.0	566.6	313.0	266.2	218.6	187.1	163.7
42.5°	7346.4	7131.4	6121.4	2629.9	1105.4	541.4	313.0	259.0	212.3	177.2	152.9
45°	7704.4	7481.3	6411.9	2652.4	1092.8	510.0	316.6	258.1	207.8	170.0	145.7
47.5°	8003.9	7810.5	6710.5	2736.9	1076.6	475.8	297.7	270.7	205.1	163.7	138.5
50°	8357.3	8170.3	7105.4	2907.8	1047.8	441.6	274.3	291.4	204.2	158.3	132.2
52.5°	8855.6	8653.2	7650.4	3102.1	1001.9	389.4	252.7	288.7	200.6	149.3	125.9
55°	9464.5	9300.8	8281.8	3335.0	939.0	331.0	218.6	256.3	189.8	134.0	115.1
57.5°	9854.9	9715.5	8754.9	3435.8	842.7	270.7	192.5	215.0	173.6	119.6	102.5
59°	9900.7	9774.8	8853.8	3402.5	779.8	247.3	179.9	184.4	169.1	111.5	95.3
60°	9862.1	9731.6	8814.2	3337.7	721.3	231.1	169.1	163.7	170.0	107.0	89.9
62.5°	9613.8	9390.8	8430.2	3009.4	630.5	212.3	150.2	134.0	150.2	96.2	80.0
65°	9134.4	8799.9	7670.2	2547.1	594.5	201.5	127.7	112.4	114.2	84.5	69.3
67.5°	8297.1	7875.3	6658.3	2069.5	579.2	202.4	107.9	100.7	88.1	72.0	61.2
70°	6973.1	6552.2	5342.5	1702.6	572.0	202.4	91.7	86.3	73.8	60.3	53.1
72.5°	4941.4	4488.1	3603.9	1337.4	515.4	201.5	78.2	78.2	60.3	50.4	43.2
75°	2791.8	2795.4	2265.6	946.2	428.1	166.4	63.0	62.1	44.1	38.7	32.4
77.5°	1627.0	1598.3	1527.2	406.5	198.8	75.6	44.1	37.8	30.6	27.9	23.4
80°	836.5	688.1	670.1	147.5	71.1	47.7	30.6	21.6	19.8	18.0	16.2
82.5°	247.3	248.2	221.3	59.4	39.6	31.5	15.3	11.7	10.8	9.9	9.9
85°	17.1	10.8	12.6	18.0	24.3	12.6	0.9	2.7	2.7	3.6	4.5
87.5°	1.8	0.9	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°	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6
2.5°	3237.0	3276.6	3202.8	3204.6	3143.4	3163.2	3091.3	3114.7	3072.4	3104.8	3200.1
5°	2435.6	2444.6	2385.2	2366.4	2375.3	2412.2	2426.6	2361.0	2388.8	2334.0	2330.4
7.5°	1716.1	1726.9	1692.7	1688.2	1753.0	1737.7	1765.5	1698.1	1634.2	1662.1	1610.8
10°	1332.9	1288.0	1217.8	1198.0	1185.4	1193.5	1193.5	1132.4	1123.4	1099.1	1136.0
12.5°	1052.3	997.4	930.9	841.0	818.5	816.7	783.4	729.4	712.3	691.6	722.2
15°	764.5	742.0	686.3	635.9	584.6	574.7	520.8	476.7	418.2	410.1	407.4
17.5°	537.8	504.6	503.7	474.9	445.2	425.4	375.1	324.7	302.2	299.5	299.5
20°	402.9	391.2	372.4	368.8	359.8	337.3	292.3	265.3	254.5	255.4	259.0
22.5°	339.1	331.0	313.9	305.8	302.2	282.4	249.1	231.1	225.8	225.8	226.7
25°	303.1	295.9	277.0	264.4	259.9	245.5	219.5	206.0	201.5	201.5	201.5
27.5°	276.1	267.1	247.3	236.5	228.5	212.3	196.1	182.6	178.1	178.1	179.0
30°	257.2	247.3	229.4	215.0	202.4	188.0	174.5	162.8	157.4	156.5	157.4
32.5°	232.0	223.1	205.1	196.1	181.7	164.6	153.8	143.0	137.6	138.5	137.6
35°	180.8	178.1	165.5	168.2	160.1	145.7	135.8	124.1	117.8	116.9	118.7
37.5°	164.6	153.8	139.4	140.3	137.6	132.2	116.0	103.4	98.9	98.9	99.8
40°	152.0	141.2	125.0	116.9	117.8	117.8	100.7	87.2	82.7	81.8	83.6
42.5°	141.2	130.4	112.4	98.9	95.3	99.8	85.4	72.0	67.5	65.7	67.5
45°	134.0	122.3	101.6	86.3	75.6	80.9	70.2	59.4	54.0	54.0	53.1
47.5°	126.8	116.0	93.5	74.7	63.0	60.3	57.6	47.7	42.3	41.4	42.3
50°	120.5	109.7	84.5	64.8	53.1	46.8	46.8	37.8	34.2	32.4	33.3
52.5°	114.2	102.5	76.5	57.6	45.9	37.8	33.3	30.6	27.9	27.0	27.9
55°	105.2	93.5	68.4	49.5	39.6	31.5	26.1	25.2	23.4	21.6	23.4
57.5°	94.4	83.6	60.3	42.3	31.5	24.3	21.6	20.7	18.9	18.0	18.0
59°	88.1	78.2	55.8	36.9	27.9	21.6	19.8	18.9	17.1	15.3	16.2
60°	84.5	76.5	53.1	34.2	25.2	19.8	18.0	17.1	15.3	14.4	15.3
62.5°	74.7	68.4	46.8	27.9	19.8	14.4	12.6	13.5	12.6	11.7	12.6
65°	65.7	60.3	39.6	21.6	15.3	9.9	9.0	11.7	10.8	9.9	10.8
67.5°	58.5	52.2	33.3	16.2	10.8	5.4	6.3	9.9	9.9	9.0	9.9
70°	50.4	45.0	27.0	11.7	5.4	2.7	4.5	7.2	9.0	8.1	9.0
72.5°	41.4	35.1	20.7	8.1	2.7	0.0	2.7	6.3	9.0	8.1	9.0
75°	32.4	26.1	15.3	4.5	0.0	0.0	0.9	5.4	9.0	8.1	9.0
77.5°	23.4	18.9	9.0	0.9	0.0	0.0	0.9	5.4	9.0	8.1	9.0
80°	15.3	13.5	3.6	0.0	0.0	0.0	0.9	5.4	9.0	9.0	9.9
82.5°	9.9	7.2	0.0	0.0	0.0	0.0	1.8	7.2	9.9	10.8	10.8
85°	4.5	0.0	0.0	0.0	0.0	0.0	3.6	9.0	11.7	11.7	11.7
87.5°	0.0	0.0	0.0	0.0	0.0	1.8	6.3	10.8	13.5	13.5	13.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6
2.5°	3216.3	3273.0	3353.0	3476.2	3576.1	3733.5	3854.0	4018.6	4185.0	4235.3	4313.6
5°	2367.3	2440.1	2621.8	2787.3	2891.6	3224.4	3434.9	3766.7	4064.4	4207.5	4363.0
7.5°	1644.1	1730.5	1869.0	2100.1	2319.6	2590.3	2930.3	3309.8	3746.1	3950.2	4169.7
10°	1153.9	1261.9	1457.0	1646.8	1922.9	2180.2	2515.7	2934.8	3416.0	3657.0	3932.2
12.5°	728.5	824.8	1082.9	1296.1	1640.5	1939.1	2248.5	2628.1	3185.7	3433.1	3721.8
15°	416.4	497.4	617.9	891.3	1273.6	1668.4	2054.3	2495.0	3067.9	3372.8	3684.9
17.5°	310.3	331.9	385.8	540.5	888.6	1350.0	1875.3	2454.5	3147.9	3505.9	3862.1
20°	260.8	275.2	300.4	361.6	566.6	1039.7	1700.8	2461.7	3407.0	3856.7	4194.9
22.5°	233.8	242.8	263.5	303.1	386.7	757.3	1496.6	2504.0	3720.9	4287.5	4677.8
25°	205.1	216.8	234.7	268.9	322.0	525.3	1295.2	2598.4	4160.7	4834.3	5201.3
27.5°	182.6	193.4	211.4	242.8	282.4	401.1	1060.4	2679.3	4624.8	5384.8	5685.2
30°	160.1	170.9	188.9	214.1	250.0	324.7	807.7	2727.0	5075.4	5797.6	6028.8
32.5°	141.2	150.2	167.3	189.8	219.5	275.2	636.8	2677.6	5419.9	6172.7	6327.4
35°	122.3	133.1	147.5	168.2	194.3	234.7	529.8	2506.7	5715.8	6558.5	6614.3
37.5°	102.5	115.1	130.4	149.3	170.0	215.9	425.4	2317.8	6032.4	7039.7	6948.0
40°	86.3	98.0	112.4	133.1	152.0	197.9	327.4	2116.3	6374.1	7491.2	7312.2
42.5°	70.2	82.7	99.8	118.7	150.2	172.7	253.6	1907.7	6680.8	7884.2	7641.4
45°	55.8	66.6	84.5	108.8	149.3	148.4	196.1	1701.7	6912.0	8164.9	7886.9
47.5°	44.1	53.1	71.1	106.1	137.6	125.9	157.4	1574.0	7154.8	8417.6	8074.9
50°	35.1	44.1	61.2	110.6	120.5	107.9	132.2	1594.7	7389.6	8546.2	8152.3
52.5°	29.7	38.7	53.1	87.2	92.6	94.4	116.0	1690.0	7692.7	8683.8	8306.1
55°	26.1	34.2	45.0	61.2	72.0	84.5	106.1	1759.3	8098.3	8978.8	8645.2
57.5°	20.7	29.7	40.5	52.2	59.4	73.8	98.0	1764.6	8465.3	9357.5	9095.8
59°	18.9	27.0	37.8	49.5	53.1	66.6	92.6	1718.8	8478.8	9414.1	9302.6
60°	17.1	26.1	36.0	45.9	50.4	63.0	88.1	1665.7	8356.4	9324.2	9388.1
62.5°	14.4	22.5	31.5	36.9	43.2	52.2	76.5	1473.2	7763.7	8916.8	9229.8
65°	12.6	19.8	27.0	30.6	36.0	45.0	67.5	1179.1	7109.0	8364.5	8776.5
67.5°	11.7	18.0	23.4	26.1	31.5	41.4	60.3	832.9	6260.8	7663.9	8095.6
70°	10.8	17.1	20.7	24.3	27.9	35.1	51.3	485.7	4822.6	6435.3	6891.3
72.5°	10.8	16.2	18.0	20.7	24.3	31.5	47.7	262.6	3297.2	4909.0	5498.1
75°	10.8	15.3	16.2	18.0	21.6	28.8	42.3	137.6	2131.6	3410.6	4209.3
77.5°	10.8	14.4	16.2	17.1	20.7	25.2	36.9	86.3	1420.2	2388.8	2844.8
80°	11.7	14.4	15.3	17.1	19.8	23.4	30.6	57.6	834.7	1437.3	1731.4
82.5°	12.6	14.4	16.2	18.0	20.7	22.5	27.0	36.0	384.9	950.7	1075.7
85°	13.5	15.3	17.1	18.9	21.6	22.5	25.2	26.1	63.0	429.0	580.1
87.5°	14.4	16.2	18.0	19.8	23.4	23.4	23.4	23.4	21.6	45.9	116.9
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°	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6	3910.6
2.5°	4412.5	4514.2	4585.2	4603.2	4551.9	4528.5	4463.8	4363.0	4301.9	4299.2
5°	4650.0	4888.3	5053.8	5081.7	4982.7	4815.5	4616.7	4360.4	4210.1	4165.2
7.5°	4609.5	5026.8	5293.0	5331.7	5165.3	4846.0	4461.1	4048.3	3884.6	3815.3
10°	4443.1	4952.2	5332.6	5393.8	5171.6	4721.9	4232.6	3772.1	3568.9	3515.8
12.5°	4301.0	4815.5	5153.6	5238.2	5070.0	4621.2	4095.9	3595.0	3377.3	3327.8
15°	4238.9	4653.6	4860.4	4903.6	4875.7	4558.2	4081.5	3568.0	3318.8	3264.9
17.5°	4301.0	4515.9	4542.0	4586.1	4648.2	4551.9	4220.0	3714.6	3445.6	3379.1
20°	4463.8	4396.3	4288.4	4307.3	4449.4	4578.0	4466.5	4039.3	3711.9	3640.8
22.5°	4740.8	4366.6	4122.0	4105.8	4285.7	4665.3	4828.0	4479.1	4099.5	4029.4
25°	5080.8	4441.3	4060.8	4025.8	4221.8	4793.0	5221.1	5017.8	4603.2	4496.2
27.5°	5451.3	4596.0	4060.8	4026.7	4216.4	4906.3	5557.5	5494.5	5124.9	5007.9
30°	5654.6	4723.7	4119.3	4080.6	4283.0	4972.0	5737.4	5918.1	5517.0	5372.2
32.5°	5836.3	4900.9	4233.5	4160.7	4422.4	5069.1	5898.3	6277.9	5829.1	5732.0
35°	6003.6	5090.7	4390.9	4306.4	4605.9	5202.2	6076.4	6655.7	6263.5	6116.9
37.5°	6188.0	5311.0	4636.5	4564.5	4912.6	5461.2	6287.8	7152.1	6690.7	6506.3
40°	6388.5	5566.5	5040.3	5009.7	5400.1	5754.4	6554.9	7681.9	7178.2	6968.6
42.5°	6592.7	5860.6	5535.0	5585.4	5952.3	6165.5	6829.2	8089.3	7577.5	7346.4
45°	6778.0	6236.5	6178.1	6427.2	6596.3	6566.6	7032.5	8376.2	7925.6	7704.4
47.5°	7011.8	6784.3	6956.1	7340.1	7344.6	7002.8	7186.3	8611.0	8225.1	8003.9
50°	7273.5	7430.9	7960.7	8351.9	8246.7	7431.8	7366.2	8888.9	8534.5	8357.3
52.5°	7576.7	8155.0	8888.9	9323.3	9077.8	7899.5	7665.7	9189.3	9025.6	8855.6
55°	7929.2	8648.7	9814.4	10160.7	9913.3	8480.6	8120.8	9596.7	9580.5	9464.5
57.5°	8327.7	9170.4	10350.4	10819.0	10598.7	9162.3	8756.7	9980.8	9919.6	9854.9
59°	8642.5	9438.4	10587.0	11072.7	10939.6	9639.9	9183.9	10220.0	9997.9	9900.7
60°	8833.1	9620.1	10674.2	11106.8	11076.3	9924.1	9454.6	10336.9	9997.0	9862.1
62.5°	9398.9	9937.6	10640.9	10954.8	11074.5	10469.2	10248.8	10465.6	9811.7	9613.8
65°	9600.3	9832.4	10089.6	10050.9	10153.5	10441.3	10756.1	10324.4	9415.9	9134.4
67.5°	9208.2	8678.4	8769.3	8511.1	8460.8	9282.8	10550.1	9633.6	8641.6	8297.1
70°	7761.9	6648.5	6602.6	6721.3	6395.7	7515.5	9473.5	8303.4	7363.5	6973.1
72.5°	6109.7	4698.5	4311.8	4748.9	4739.0	5733.8	7869.9	5892.1	4974.6	4941.4
75°	4804.7	3271.2	2870.9	2942.0	3078.7	4150.8	6268.0	3741.6	3063.4	2791.8
77.5°	3225.3	2317.8	2162.2	2074.9	2222.4	2665.0	3965.5	2029.1	1717.9	1627.0
80°	1859.1	1683.7	1912.2	1735.9	1815.0	1679.2	1972.4	930.9	772.6	836.5
82.5°	1209.7	958.8	1021.7	759.1	1037.9	1046.9	633.2	275.2	232.9	247.3
85°	756.4	449.7	252.7	179.9	358.0	658.4	197.9	17.1	19.8	17.1
87.5°	196.1	74.7	31.5	46.8	57.6	51.3	45.9	2.7	0.9	1.8
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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