

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: P528911

Luminaire Tested: **GALN-SA4A-735-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528911
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-SA4A-735-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA 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: 9317 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

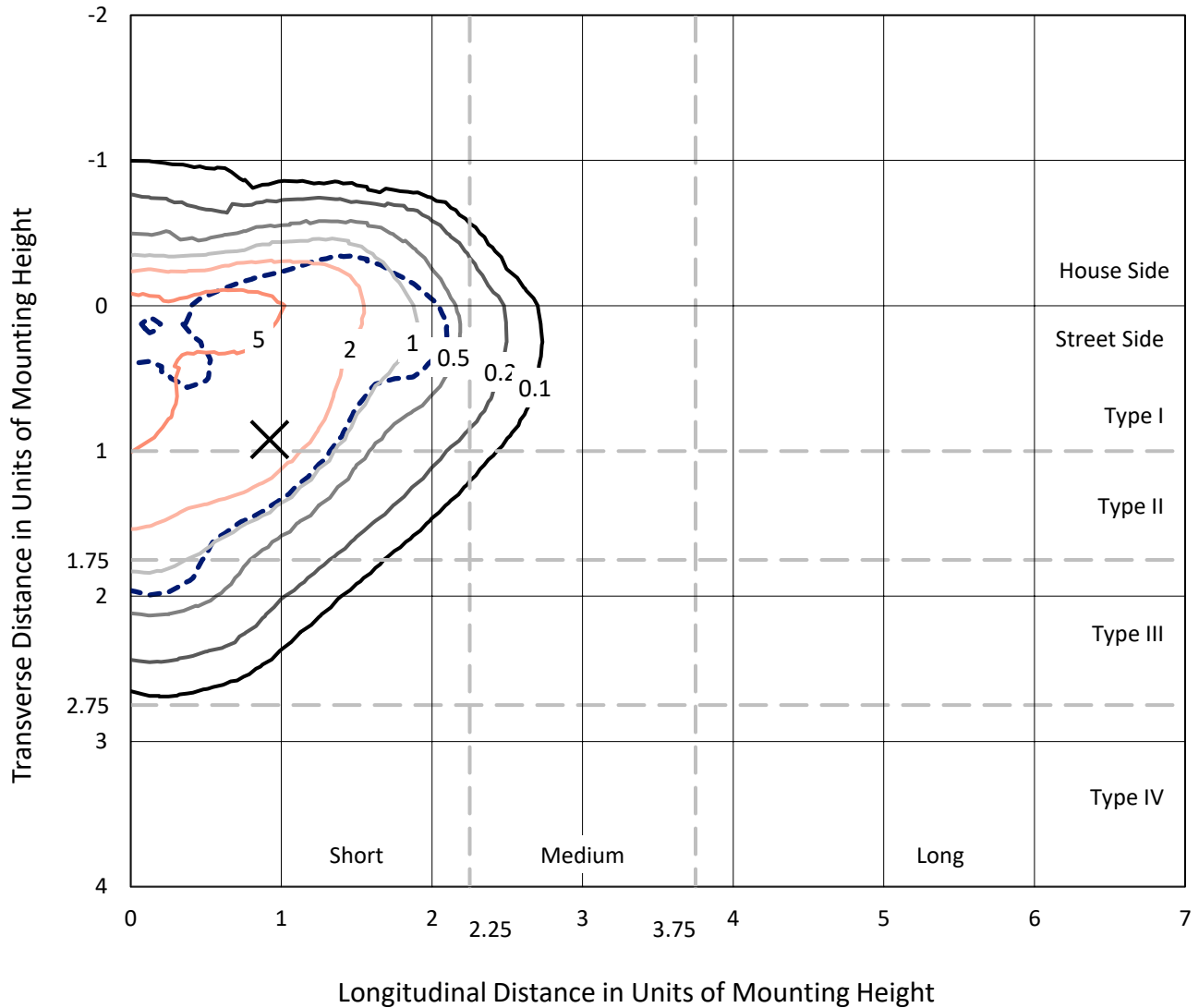
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

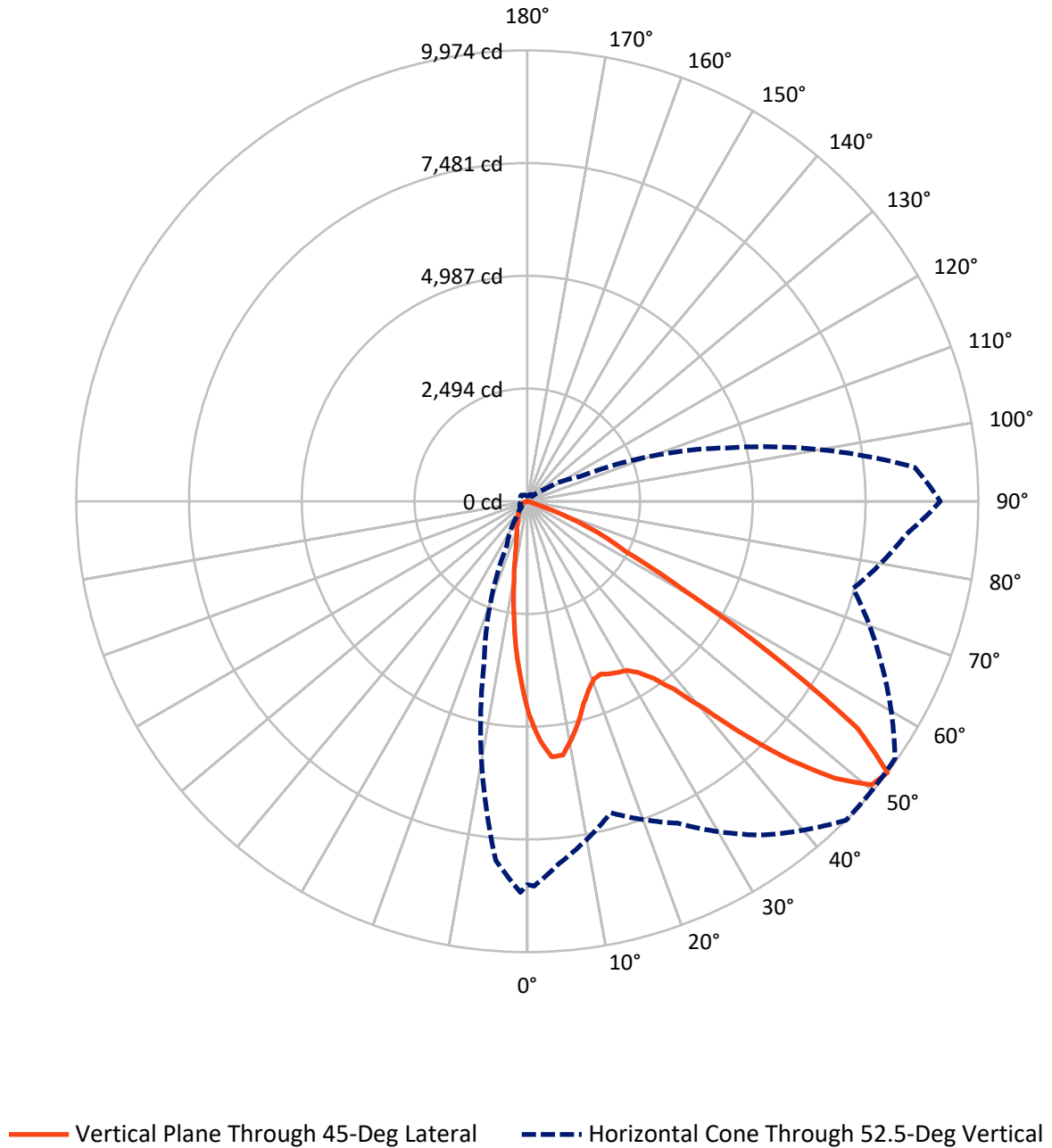
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	1890.9	0.0	1890.9
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	7426.1	0.0	7426.1
	% Fixture	79.7	0.0	79.7
Total	Lumens	9317.0	0.0	9317.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.5	3.7
10°-20°	679.7	7.3
20°-30°	1034.4	11.1
30°-40°	1546.1	16.6
40°-50°	2201.8	23.6
50°-60°	2366.9	25.4
60°-70°	1048.8	11.3
70°-80°	84.9	0.9
80°-90°	9.9	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°	9317.0	100.0
0°-180°	9317.0	100.0

Coefficient of Utilization

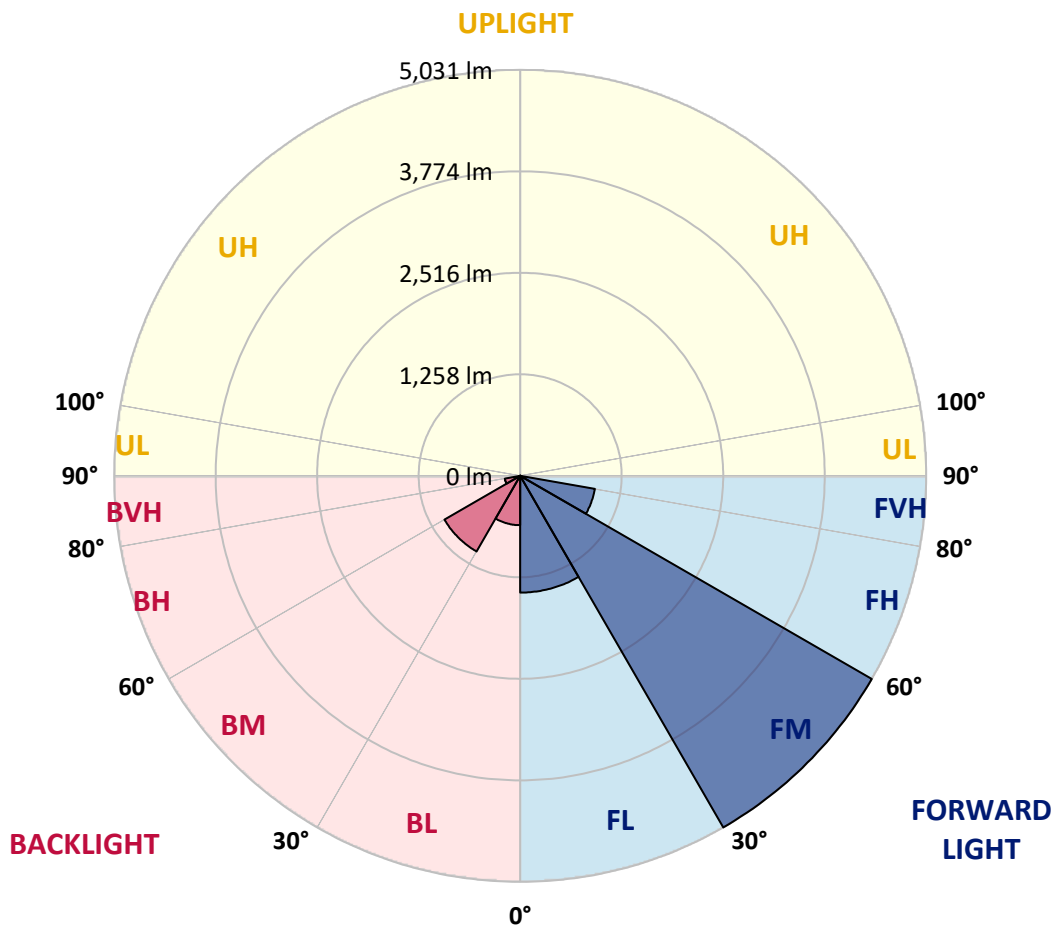


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1447.1	15.5			
FM (30°-60°)	5031.5	54.0			
FH (60°-80°)	940.2	10.1			G1/1800
FVH (80°-90°)	7.3	0.1			G0/10
BL (0°-30°)	611.6	6.6	B2/1000		
BM (30°-60°)	1083.3	11.6	B2/2500		
BH (60°-80°)	193.5	2.1	B1/500		G1/500
BVH (80°-90°)	2.6	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°	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2
2.5°	4999.0	5013.7	5094.3	5195.1	5248.2	5369.2	5284.9	5306.9	5261.1	5099.8	4973.4
5°	4846.9	4845.1	4947.7	5196.9	5433.3	5673.4	5680.7	5552.4	5327.0	5079.7	4726.0
7.5°	4388.8	4460.3	4566.6	4964.2	5402.2	5581.8	5667.9	5517.6	5171.3	4817.6	4434.6
10°	4042.5	4079.1	4258.7	4738.8	5059.5	5299.6	5352.7	5266.6	5000.9	4559.2	4130.4
12.5°	3842.7	3861.1	4071.8	4474.9	4813.9	4991.7	5017.4	5057.7	4867.1	4452.9	3938.0
15°	3844.6	3859.2	4143.3	4480.4	4614.2	4566.6	4650.9	4649.0	4731.5	4432.8	4099.3
17.5°	4121.3	4137.8	4394.3	4561.1	4502.4	4390.6	4385.1	4469.4	4643.5	4683.8	4343.0
20°	4597.7	4636.2	4824.9	4815.8	4485.9	4260.5	4198.2	4262.4	4667.3	4896.4	4834.1
22.5°	5239.1	5292.2	5424.2	5171.3	4561.1	4172.6	4152.4	4277.0	4824.9	5371.0	5391.2
25°	5983.1	6072.9	6137.0	5812.6	4828.6	4324.7	4229.4	4443.8	5037.5	5885.9	6100.3
27.5°	6476.0	6569.5	6554.8	6091.2	5008.2	4365.0	4284.4	4484.1	5222.6	6008.7	6470.5
30°	6860.8	6917.6	7020.3	6241.5	5187.8	4478.6	4341.2	4654.5	5283.1	6221.3	6917.6
32.5°	7309.8	7348.3	7355.6	6507.2	5464.5	4621.5	4517.1	4867.1	5550.6	6424.7	7313.5
35°	7762.4	7819.2	7700.1	6835.2	5634.9	4887.2	4810.3	5235.4	5765.0	6635.4	7749.6
37.5°	8253.5	8282.8	8008.0	6970.8	5878.6	5319.7	5277.6	5633.1	6137.0	7016.6	8233.4
40°	8665.8	8693.3	8336.0	7137.5	6135.2	5924.4	6032.5	6391.7	6642.8	7264.0	8475.3
42.5°	8894.9	8959.0	8445.9	7045.9	6650.1	6609.8	7089.9	7216.3	7229.2	7333.6	8691.5
45°	8957.2	8927.9	8264.5	7121.0	7100.9	7736.8	8172.9	8339.6	7811.9	7461.9	8746.5
47.5°	8669.5	8708.0	7997.0	7055.1	7692.8	8590.7	9155.1	9464.8	8246.2	7350.1	8610.9
50°	8436.8	8387.3	7910.8	7007.4	7852.2	8993.8	9864.3	9933.9	8645.7	7487.5	8462.4
52.5°	8482.6	8513.7	8048.3	7133.9	7855.9	9017.7	9974.2	9926.6	8658.5	7456.4	8409.3
55°	8579.7	8442.3	7989.6	6855.3	7329.9	8352.5	8852.7	8779.4	7991.5	7124.7	8279.2
57.5°	7403.2	7615.8	7346.4	6120.5	6016.1	6292.8	6283.6	6509.0	5961.1	6131.5	7537.0
60°	6008.7	6045.4	6146.2	5235.4	4163.4	4068.1	3936.2	3793.2	4011.3	5242.7	6855.3
62.5°	5284.9	5240.9	5600.1	4762.6	2939.3	2461.0	2439.0	2527.0	3095.1	5000.9	6430.2
65°	3840.9	3895.9	4156.1	3696.1	2206.3	1878.3	1845.3	2105.5	2505.0	4007.6	4907.4
67.5°	2345.6	2451.9	2475.7	2279.6	1497.1	1189.3	1141.6	1378.0	1808.7	2593.0	2877.0
70°	1083.0	1211.3	1332.2	1244.3	866.8	489.3	461.8	579.1	912.6	1491.6	1526.5
72.5°	328.0	329.8	461.8	481.9	280.4	109.9	97.1	128.3	309.7	492.9	518.6
75°	23.8	25.7	62.3	71.5	53.1	27.5	29.3	34.8	66.0	109.9	82.5
77.5°	1.8	1.8	1.8	9.2	16.5	18.3	23.8	27.5	34.8	40.3	36.6
80°	1.8	0.0	1.8	7.3	12.8	18.3	22.0	25.7	27.5	31.2	27.5
82.5°	0.0	0.0	0.0	5.5	12.8	18.3	20.2	27.5	31.2	36.6	31.2
85°	0.0	0.0	0.0	5.5	12.8	20.2	18.3	9.2	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°	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2
2.5°	4995.4	4923.9	4760.8	4678.3	4484.1	4456.6	4266.0	4234.9	4170.7	4135.9	4051.6
5°	4570.2	4484.1	4218.4	3994.8	3734.6	3553.2	3413.9	3287.5	3214.2	3146.4	3177.5
7.5°	4223.9	3972.8	3677.8	3304.0	3003.4	2809.2	2596.6	2422.5	2319.9	2250.3	2266.8
10°	3861.1	3698.0	3287.5	2867.8	2505.0	2367.6	2200.8	2067.0	1922.3	1797.7	1739.0
12.5°	3747.4	3505.5	2990.6	2563.6	2288.8	2155.0	1964.4	1810.5	1625.4	1473.3	1420.2
15°	3767.6	3534.9	2910.0	2453.7	2129.4	1898.5	1671.2	1480.6	1277.2	1171.0	1116.0
17.5°	4095.6	3692.5	2963.1	2338.3	1907.6	1586.9	1306.6	1064.7	912.6	802.6	778.8
20°	4498.8	4033.3	3076.7	2254.0	1726.2	1262.6	954.7	745.8	619.4	601.1	595.6
22.5°	5088.8	4590.4	3320.5	2197.2	1504.5	984.0	654.2	542.4	507.6	503.9	505.8
25°	5913.4	5288.6	3586.2	2149.5	1337.7	758.6	535.1	460.0	449.0	443.5	452.6
27.5°	6270.8	5710.0	3727.3	2046.9	1185.6	683.5	527.8	456.3	425.1	416.0	421.5
30°	6712.4	5990.4	3949.0	1871.0	962.1	562.6	492.9	496.6	481.9	436.1	421.5
32.5°	7298.8	6340.4	4060.8	1746.4	859.4	465.5	361.0	331.7	370.2	377.5	390.3
35°	7674.5	6695.9	4117.6	1673.1	806.3	397.6	306.0	278.5	269.4	271.2	278.5
37.5°	8372.6	7176.0	4189.1	1596.1	766.0	346.3	276.7	251.1	238.2	238.2	245.6
40°	8790.4	7557.2	4286.2	1553.9	725.7	315.2	251.1	229.1	218.1	218.1	221.7
42.5°	8894.9	7745.9	4253.2	1539.3	679.9	307.9	229.1	212.6	199.7	197.9	196.1
45°	9081.8	8033.6	4258.7	1522.8	632.2	280.4	216.2	197.9	179.6	177.8	175.9
47.5°	9287.0	8240.7	4269.7	1458.7	586.4	234.6	225.4	183.2	161.3	157.6	157.6
50°	9111.1	8405.6	4365.0	1394.5	527.8	190.6	221.7	172.3	142.9	137.4	139.3
52.5°	9133.1	8599.9	4566.6	1304.7	454.5	152.1	179.6	163.1	130.1	120.9	122.8
55°	8781.3	8394.6	4594.0	1209.4	355.5	117.3	137.4	142.9	109.9	106.3	106.3
57.5°	7559.0	7108.2	4053.5	980.4	234.6	97.1	99.0	124.6	95.3	91.6	93.5
60°	6468.7	5706.4	3261.8	646.9	146.6	77.0	71.5	126.4	84.3	82.5	88.0
62.5°	5896.9	4689.3	2473.9	401.3	100.8	58.6	49.5	102.6	73.3	73.3	80.6
65°	4260.5	3150.0	1438.5	210.7	71.5	45.8	36.6	58.6	60.5	62.3	66.0
67.5°	2638.8	1590.6	606.6	102.6	47.6	31.2	23.8	36.6	40.3	40.3	44.0
70°	1302.9	634.0	201.6	58.6	36.6	25.7	16.5	20.2	20.2	18.3	20.2
72.5°	403.1	190.6	51.3	36.6	25.7	16.5	9.2	7.3	3.7	0.0	1.8
75°	45.8	36.6	33.0	25.7	16.5	7.3	1.8	0.0	0.0	0.0	0.0
77.5°	27.5	31.2	31.2	25.7	16.5	5.5	0.0	0.0	0.0	0.0	0.0
80°	22.0	23.8	25.7	23.8	14.7	7.3	0.0	0.0	0.0	0.0	0.0
82.5°	27.5	31.2	34.8	31.2	20.2	9.2	3.7	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	5.5	1.8	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°	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2
2.5°	4016.8	3976.5	4033.3	3949.0	3947.2	3949.0	3925.2	3903.2	3938.0	4031.5	4040.6
5°	3065.8	3151.9	3179.4	3269.2	3219.7	3146.4	3161.0	3111.6	3232.5	3285.6	3243.5
7.5°	2232.0	2226.5	2411.6	2422.5	2446.4	2448.2	2444.5	2347.4	2248.5	2270.5	2336.4
10°	1731.7	1638.2	1728.0	1718.9	1777.5	1761.0	1784.8	1680.4	1715.2	1715.2	1757.4
12.5°	1411.0	1312.1	1295.6	1271.7	1295.6	1304.7	1313.9	1293.7	1352.4	1379.9	1409.2
15°	1077.5	1022.5	1007.9	962.1	969.4	995.0	1017.0	1026.2	1007.9	1050.0	1053.7
17.5°	782.5	780.6	789.8	788.0	780.6	775.1	773.3	749.5	742.2	745.8	760.5
20°	593.7	608.4	639.5	670.7	687.2	667.0	639.5	599.2	582.7	586.4	588.2
22.5°	507.6	529.6	571.7	606.6	623.0	586.4	536.9	502.1	494.8	492.9	491.1
25°	460.0	485.6	516.8	527.8	525.9	503.9	467.3	452.6	449.0	445.3	428.8
27.5°	434.3	443.5	449.0	461.8	467.3	452.6	443.5	421.5	417.8	417.8	406.8
30°	419.6	414.1	421.5	412.3	419.6	408.6	410.5	410.5	401.3	405.0	405.0
32.5°	390.3	392.2	392.2	373.8	379.3	366.5	379.3	390.3	392.2	394.0	408.6
35°	285.9	318.9	335.3	335.3	340.8	331.7	329.8	317.0	300.5	284.0	276.7
37.5°	251.1	263.9	285.9	298.7	307.9	300.5	284.0	263.9	254.7	247.4	240.1
40°	223.6	234.6	249.2	263.9	282.2	273.0	247.4	238.2	227.2	227.2	219.9
42.5°	201.6	207.1	216.2	238.2	258.4	240.1	221.7	214.4	208.9	207.1	205.2
45°	181.4	183.2	192.4	210.7	234.6	216.2	197.9	188.7	190.6	192.4	190.6
47.5°	163.1	166.8	172.3	194.2	208.9	199.7	179.6	174.1	174.1	174.1	175.9
50°	141.1	150.3	161.3	179.6	190.6	185.1	168.6	161.3	157.6	157.6	159.4
52.5°	126.4	133.8	148.4	170.4	185.1	175.9	159.4	148.4	141.1	139.3	142.9
55°	109.9	122.8	146.6	163.1	183.2	174.1	155.8	142.9	130.1	128.3	128.3
57.5°	99.0	119.1	141.1	161.3	177.8	170.4	155.8	139.3	122.8	120.9	120.9
60°	93.5	115.4	137.4	155.8	177.8	166.8	153.9	135.6	117.3	117.3	115.4
62.5°	88.0	108.1	130.1	148.4	170.4	161.3	148.4	130.1	111.8	111.8	108.1
65°	73.3	93.5	108.1	124.6	148.4	139.3	126.4	113.6	99.0	95.3	97.1
67.5°	51.3	64.1	78.8	95.3	109.9	106.3	100.8	91.6	78.8	77.0	75.1
70°	25.7	34.8	47.6	64.1	77.0	73.3	69.6	62.3	55.0	53.1	53.1
72.5°	3.7	11.0	20.2	29.3	40.3	42.1	40.3	38.5	36.6	34.8	36.6
75°	0.0	0.0	0.0	7.3	16.5	20.2	23.8	27.5	27.5	23.8	29.3
77.5°	0.0	0.0	0.0	0.0	1.8	9.2	18.3	23.8	29.3	25.7	34.8
80°	0.0	0.0	0.0	0.0	1.8	11.0	18.3	25.7	29.3	25.7	36.6
82.5°	0.0	0.0	0.0	0.0	1.8	12.8	18.3	23.8	27.5	25.7	33.0
85°	0.0	0.0	0.0	0.0	5.5	11.0	7.3	3.7	1.8	1.8	5.5
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°	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2
2.5°	4091.9	4222.1	4361.3	4414.5	4579.4	4704.0	4788.3	4969.7	4997.2	4999.0
5°	3287.5	3353.5	3591.7	3703.5	3949.0	4139.6	4343.0	4636.2	4832.3	4846.9
7.5°	2336.4	2519.7	2620.5	2911.8	3214.2	3512.9	3815.2	4156.1	4383.3	4388.8
10°	1880.1	1999.2	2178.8	2396.9	2651.6	2955.8	3358.9	3754.8	3985.7	4042.5
12.5°	1513.6	1722.5	1927.8	2153.2	2347.4	2576.5	3010.8	3538.5	3729.1	3842.7
15°	1165.5	1356.0	1597.9	1861.8	2081.7	2387.7	2882.5	3485.4	3806.1	3844.6
17.5°	859.4	1029.9	1253.4	1502.6	1832.5	2266.8	2904.5	3754.8	4057.1	4121.3
20°	617.5	716.5	892.4	1182.0	1601.6	2125.7	2926.5	4027.8	4487.8	4597.7
22.5°	489.3	529.6	645.0	901.6	1343.2	1977.3	3082.2	4550.1	5079.7	5239.1
25°	425.1	447.1	502.1	711.0	1180.1	1962.6	3331.5	5176.8	5867.6	5983.1
27.5°	410.5	414.1	461.8	652.4	1092.2	1865.5	3426.8	5622.1	6358.7	6476.0
30°	432.5	491.1	494.8	551.6	929.1	1673.1	3476.2	6052.7	6774.7	6860.8
32.5°	373.8	355.5	368.3	427.0	817.3	1561.3	3569.7	6428.4	7249.3	7309.8
35°	260.2	273.0	302.4	370.2	714.7	1444.0	3593.5	6842.5	7700.1	7762.4
37.5°	240.1	247.4	271.2	315.2	628.5	1378.0	3560.5	7144.9	8167.4	8253.5
40°	223.6	232.7	245.6	285.9	564.4	1304.7	3514.7	7417.9	8453.3	8665.8
42.5°	210.7	218.1	229.1	273.0	509.4	1231.4	3450.6	7802.7	8709.8	8894.9
45°	196.1	207.1	219.9	265.7	478.3	1182.0	3402.9	7778.9	8858.2	8957.2
47.5°	181.4	199.7	214.4	247.4	469.1	1158.1	3423.1	7689.1	8737.3	8669.5
50°	166.8	190.6	216.2	205.2	447.1	1110.5	3446.9	7811.9	8449.6	8436.8
52.5°	153.9	181.4	201.6	168.6	397.6	1064.7	3677.8	7973.2	8653.0	8482.6
55°	135.6	163.1	161.3	135.6	322.5	1029.9	3859.2	7976.8	8515.6	8579.7
57.5°	122.8	144.8	126.4	113.6	238.2	861.3	3564.2	6688.6	7289.6	7403.2
60°	113.6	141.1	95.3	89.8	155.8	621.2	3111.6	5180.4	5794.3	6008.7
62.5°	104.5	133.8	75.1	73.3	108.1	441.6	2558.2	4335.7	4993.5	5284.9
65°	91.6	95.3	60.5	56.8	77.0	238.2	1557.6	2985.1	3732.8	3840.9
67.5°	75.1	73.3	49.5	45.8	51.3	115.4	687.2	1495.3	2164.2	2345.6
70°	60.5	60.5	42.1	36.6	36.6	53.1	179.6	595.6	978.5	1083.0
72.5°	44.0	45.8	33.0	29.3	27.5	25.7	29.3	119.1	256.5	328.0
75°	38.5	40.3	33.0	25.7	20.2	16.5	12.8	11.0	14.7	23.8
77.5°	42.1	42.1	34.8	23.8	18.3	12.8	7.3	3.7	3.7	1.8
80°	53.1	55.0	45.8	31.2	22.0	14.7	9.2	3.7	1.8	1.8
82.5°	56.8	62.3	51.3	38.5	27.5	16.5	9.2	1.8	0.0	0.0
85°	14.7	23.8	40.3	34.8	27.5	16.5	9.2	1.8	0.0	0.0
87.5°	0.0	1.8	5.5	5.5	7.3	7.3	5.5	1.8	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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