

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: P528547

Luminaire Tested: **GALN-SA3C-827-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528547
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-SA3C-827-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA 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: 8529 lumens
Efficiency: N/A
Efficacy: 53.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

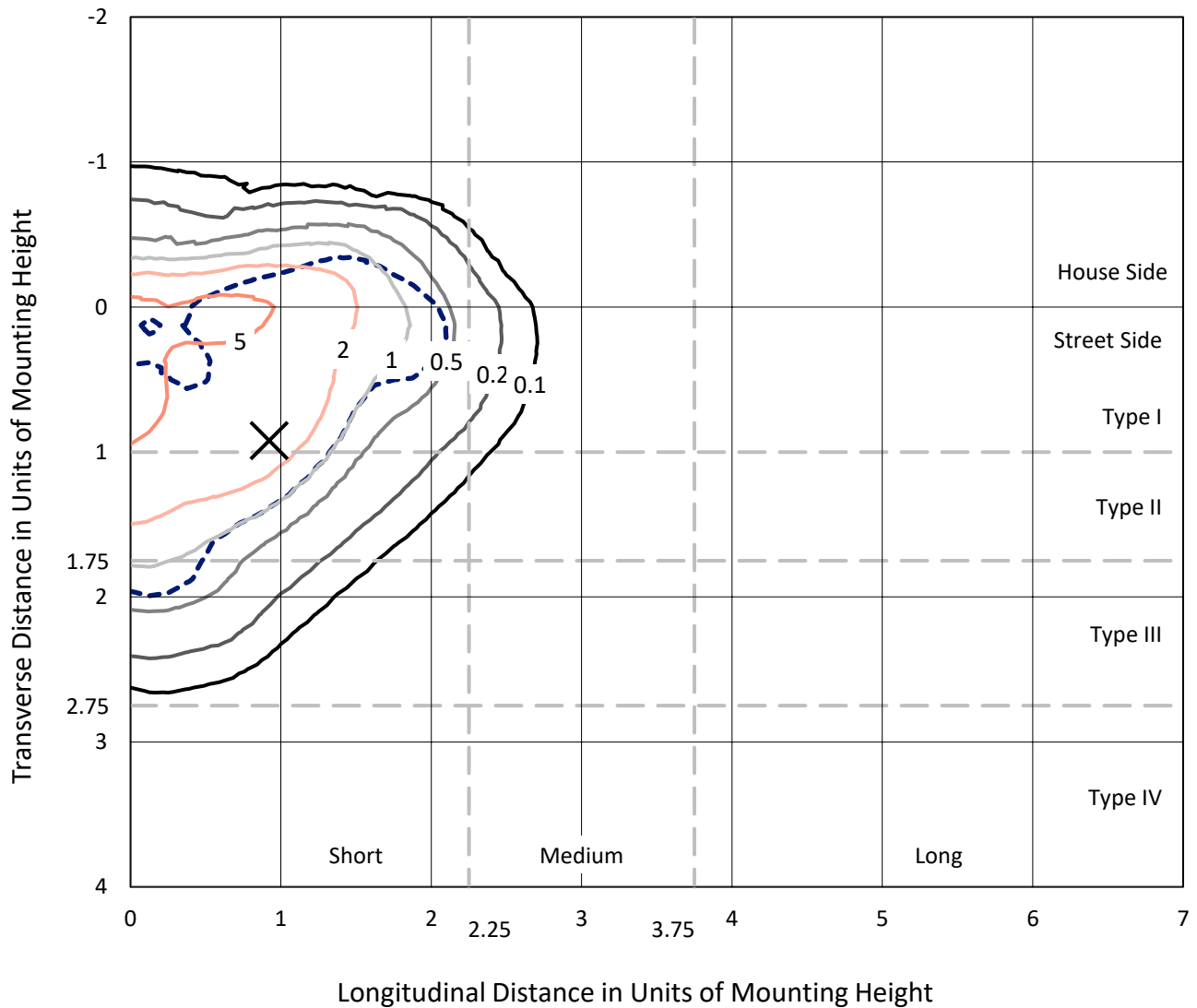
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

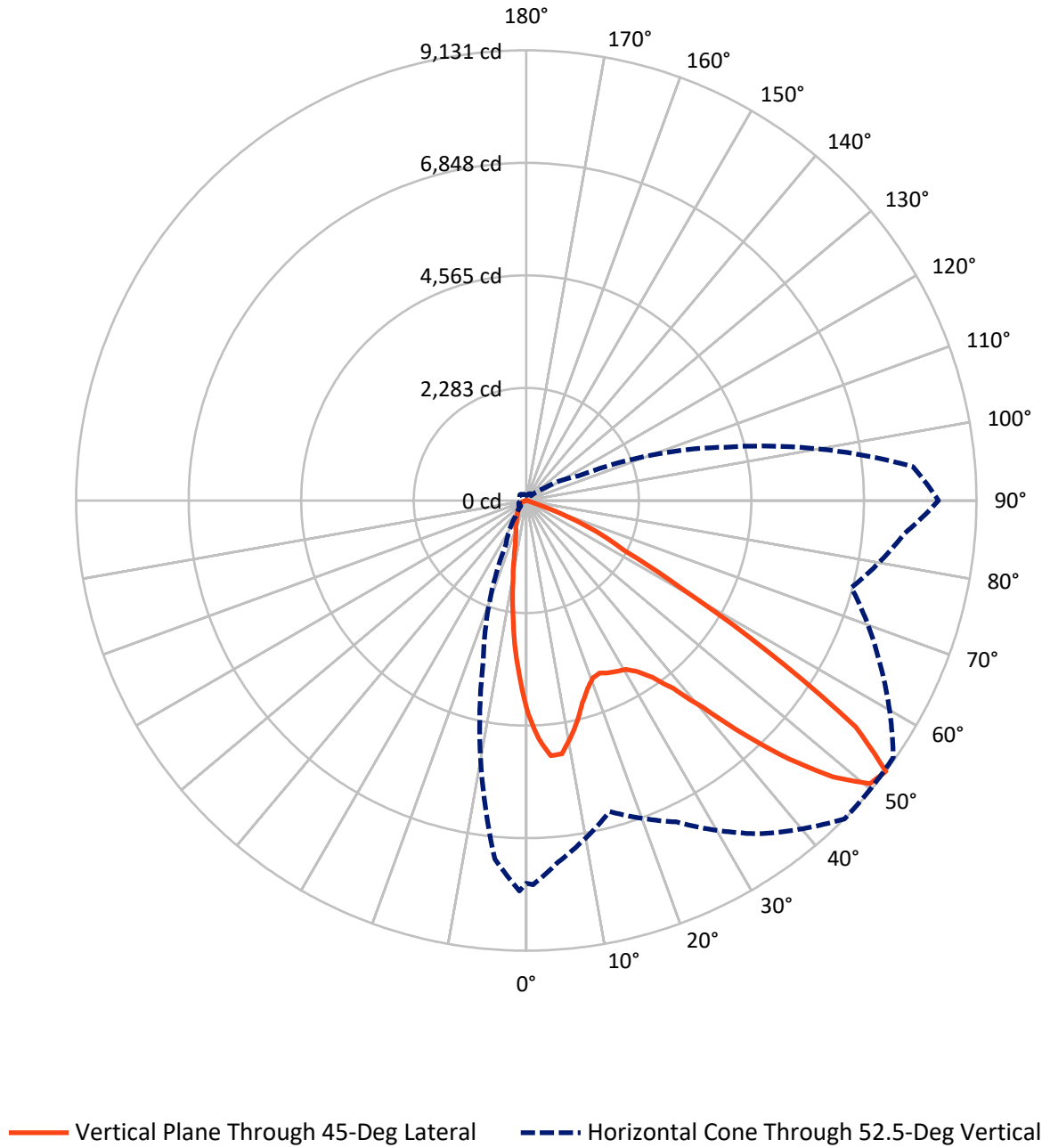
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	1731.0	0.0	1731.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	6798.0	0.0	6798.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	8529.0	0.0	8529.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.4	3.7
10°-20°	622.2	7.3
20°-30°	947.0	11.1
30°-40°	1415.3	16.6
40°-50°	2015.6	23.6
50°-60°	2166.7	25.4
60°-70°	960.1	11.3
70°-80°	77.7	0.9
80°-90°	9.1	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°	8529.0	100.0
0°-180°	8529.0	100.0

Coefficient of Utilization

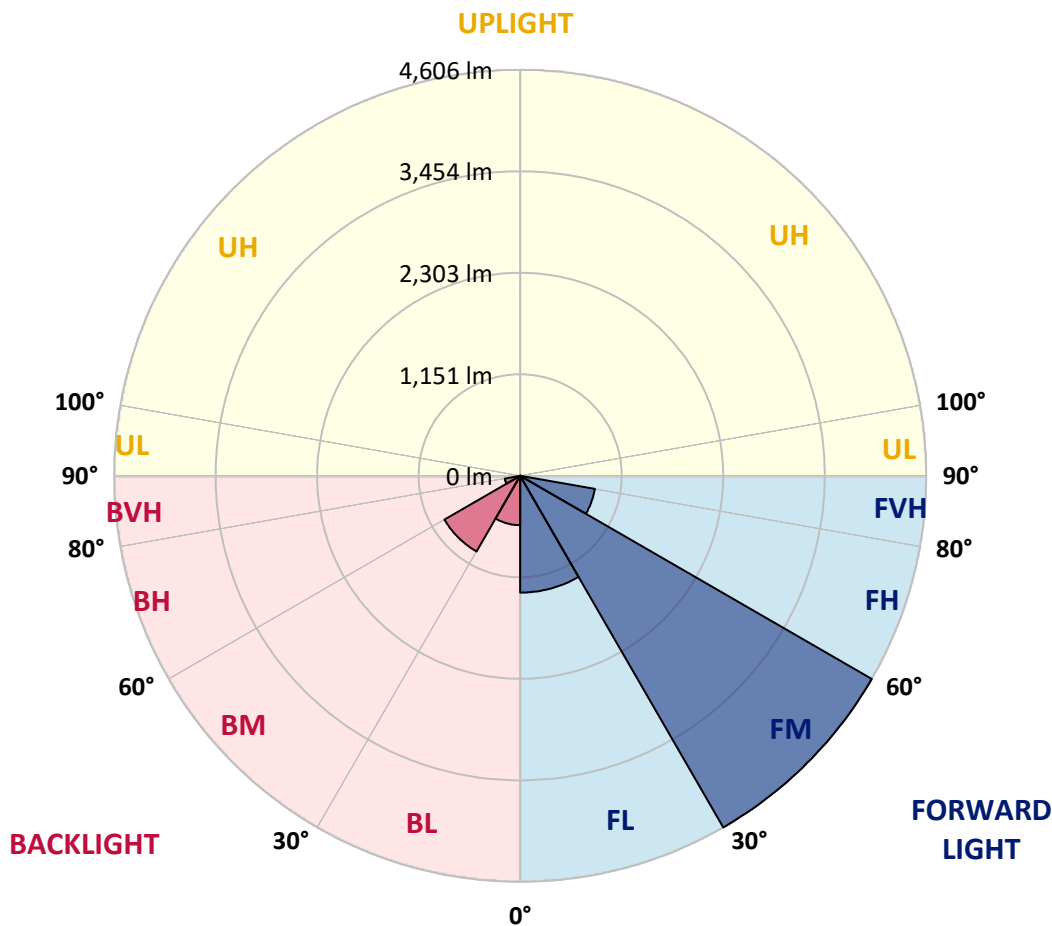


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1324.7	15.5			
FM (30°-60°)	4605.9	54.0			
FH (60°-80°)	860.7	10.1			G1/1800
FVH (80°-90°)	6.7	0.1			G0/10
BL (0°-30°)	559.9	6.6	B2/1000		
BM (30°-60°)	991.7	11.6	B1/1000		
BH (60°-80°)	177.1	2.1	B1/500		G1/500
BVH (80°-90°)	2.3	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°	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6
2.5°	4576.2	4589.6	4663.5	4755.7	4804.4	4915.1	4837.9	4858.0	4816.1	4668.5	4552.7
5°	4437.0	4435.3	4529.3	4757.4	4973.8	5193.5	5200.3	5082.8	4876.5	4650.0	4326.3
7.5°	4017.6	4083.0	4180.3	4544.4	4945.3	5109.7	5188.5	5051.0	4733.9	4410.2	4059.6
10°	3700.6	3734.1	3898.5	4338.0	4631.6	4851.3	4900.0	4821.1	4577.9	4173.6	3781.1
12.5°	3517.7	3534.5	3727.4	4096.5	4406.8	4569.5	4593.0	4629.9	4455.4	4076.3	3605.0
15°	3519.4	3532.8	3792.8	4101.5	4223.9	4180.3	4257.5	4255.8	4331.3	4057.9	3752.6
17.5°	3772.7	3787.8	4022.6	4175.3	4121.6	4019.3	4014.3	4091.4	4250.8	4287.7	3975.7
20°	4208.9	4244.1	4416.9	4408.5	4106.5	3900.2	3843.2	3901.9	4272.6	4482.3	4425.2
22.5°	4796.0	4844.6	4965.4	4733.9	4175.3	3819.7	3801.2	3915.3	4416.9	4916.8	4935.2
25°	5477.0	5559.2	5618.0	5321.0	4420.2	3958.9	3871.7	4067.9	4611.5	5388.1	5584.4
27.5°	5928.3	6013.8	6000.4	5576.0	4584.6	3995.8	3922.0	4104.8	4780.9	5500.5	5923.3
30°	6280.6	6332.6	6426.5	5713.6	4749.0	4099.8	3974.0	4260.9	4836.2	5695.1	6332.6
32.5°	6691.6	6726.8	6733.5	5956.8	5002.3	4230.7	4135.0	4455.4	5081.2	5881.3	6694.9
35°	7105.9	7157.9	7048.9	6257.1	5158.3	4473.9	4403.4	4792.6	5277.4	6074.2	7094.2
37.5°	7555.5	7582.3	7330.7	6381.2	5381.4	4869.8	4831.2	5156.6	5618.0	6423.2	7537.0
40°	7932.9	7958.1	7631.0	6533.9	5616.3	5423.4	5522.3	5851.1	6080.9	6649.6	7758.4
42.5°	8142.6	8201.3	7731.6	6450.0	6087.7	6050.7	6490.3	6606.0	6617.7	6713.4	7956.4
45°	8199.6	8172.8	7565.5	6518.8	6500.3	7082.4	7481.7	7634.3	7151.2	6830.8	8006.7
47.5°	7936.3	7971.5	7320.6	6458.4	7042.2	7864.1	8380.8	8664.3	7548.8	6728.5	7882.6
50°	7723.2	7677.9	7241.8	6414.8	7188.1	8233.2	9030.0	9093.7	7914.5	6854.3	7746.7
52.5°	7765.2	7793.7	7367.6	6530.5	7191.4	8255.0	9130.6	9087.0	7926.2	6825.8	7698.1
55°	7854.1	7728.3	7313.9	6275.5	6710.0	7646.1	8104.0	8036.9	7315.6	6522.1	7579.0
57.5°	6777.1	6971.7	6725.1	5602.9	5507.2	5760.5	5752.2	5958.5	5456.9	5612.9	6899.6
60°	5500.5	5534.1	5626.3	4792.6	3811.3	3724.1	3603.3	3472.4	3672.1	4799.3	6275.5
62.5°	4837.9	4797.7	5126.4	4359.8	2690.7	2252.9	2232.8	2313.3	2833.3	4577.9	5886.4
65°	3516.0	3566.4	3804.6	3383.5	2019.7	1719.4	1689.2	1927.4	2293.1	3668.7	4492.3
67.5°	2147.2	2244.5	2266.3	2086.8	1370.5	1088.7	1045.1	1261.5	1655.7	2373.7	2633.7
70°	991.4	1108.8	1219.5	1139.0	793.5	447.9	422.7	530.1	835.4	1365.5	1397.4
72.5°	300.3	302.0	422.7	441.2	256.7	100.7	88.9	117.4	283.5	451.2	474.7
75°	21.8	23.5	57.0	65.4	48.6	25.2	26.8	31.9	60.4	100.7	75.5
77.5°	1.7	1.7	1.7	8.4	15.1	16.8	21.8	25.2	31.9	36.9	33.6
80°	1.7	0.0	1.7	6.7	11.7	16.8	20.1	23.5	25.2	28.5	25.2
82.5°	0.0	0.0	0.0	5.0	11.7	16.8	18.5	25.2	28.5	33.6	28.5
85°	0.0	0.0	0.0	5.0	11.7	18.5	16.8	8.4	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°	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6
2.5°	4572.9	4507.4	4358.1	4282.7	4104.8	4079.7	3905.2	3876.7	3818.0	3786.1	3709.0
5°	4183.7	4104.8	3861.6	3657.0	3418.7	3252.7	3125.2	3009.4	2942.3	2880.3	2908.8
7.5°	3866.6	3636.8	3366.7	3024.5	2749.4	2571.6	2377.0	2217.7	2123.7	2060.0	2075.1
10°	3534.5	3385.2	3009.4	2625.3	2293.1	2167.3	2014.7	1892.2	1759.7	1645.6	1591.9
12.5°	3430.5	3209.1	2737.7	2346.8	2095.2	1972.7	1798.3	1657.4	1487.9	1348.7	1300.1
15°	3448.9	3235.9	2663.9	2246.2	1949.3	1737.9	1529.9	1355.4	1169.2	1071.9	1021.6
17.5°	3749.2	3380.2	2712.5	2140.5	1746.3	1452.7	1196.1	974.6	835.4	734.7	712.9
20°	4118.3	3692.2	2816.5	2063.3	1580.2	1155.8	874.0	682.7	567.0	550.2	545.2
22.5°	4658.4	4202.1	3039.6	2011.3	1377.2	900.8	598.9	496.5	464.7	461.3	463.0
25°	5413.3	4841.3	3282.9	1967.7	1224.6	694.5	489.8	421.1	411.0	406.0	414.3
27.5°	5740.4	5227.1	3412.0	1873.8	1085.3	625.7	483.1	417.7	389.2	380.8	385.8
30°	6144.7	5483.8	3615.0	1712.7	880.7	515.0	451.2	454.6	441.2	399.2	385.8
32.5°	6681.5	5804.2	3717.3	1598.7	786.7	426.1	330.5	303.6	338.9	345.6	357.3
35°	7025.4	6129.6	3769.3	1531.6	738.1	364.0	280.1	255.0	246.6	248.3	255.0
37.5°	7664.5	6569.1	3834.8	1461.1	701.2	317.0	253.3	229.8	218.1	218.1	224.8
40°	8047.0	6918.0	3923.7	1422.5	664.3	288.5	229.8	209.7	199.6	199.6	203.0
42.5°	8142.6	7090.8	3893.5	1409.1	622.4	281.8	209.7	194.6	182.8	181.2	179.5
45°	8313.7	7354.2	3898.5	1394.0	578.7	256.7	197.9	181.2	164.4	162.7	161.0
47.5°	8501.6	7543.7	3908.6	1335.3	536.8	214.7	206.3	167.8	147.6	144.3	144.3
50°	8340.5	7694.7	3995.8	1276.6	483.1	174.5	203.0	157.7	130.8	125.8	127.5
52.5°	8360.7	7872.5	4180.3	1194.4	416.0	139.2	164.4	149.3	119.1	110.7	112.4
55°	8038.6	7684.6	4205.5	1107.2	325.4	107.4	125.8	130.8	100.7	97.3	97.3
57.5°	6919.7	6507.0	3710.6	897.5	214.7	88.9	90.6	114.1	87.2	83.9	85.6
60°	5921.6	5223.7	2986.0	592.2	134.2	70.5	65.4	115.7	77.2	75.5	80.5
62.5°	5398.2	4292.7	2264.6	367.4	92.3	53.7	45.3	93.9	67.1	67.1	73.8
65°	3900.2	2883.6	1316.8	192.9	65.4	41.9	33.6	53.7	55.4	57.0	60.4
67.5°	2415.6	1456.1	555.3	93.9	43.6	28.5	21.8	33.6	36.9	36.9	40.3
70°	1192.7	580.4	184.5	53.7	33.6	23.5	15.1	18.5	18.5	16.8	18.5
72.5°	369.1	174.5	47.0	33.6	23.5	15.1	8.4	6.7	3.4	0.0	1.7
75°	41.9	33.6	30.2	23.5	15.1	6.7	1.7	0.0	0.0	0.0	0.0
77.5°	25.2	28.5	28.5	23.5	15.1	5.0	0.0	0.0	0.0	0.0	0.0
80°	20.1	21.8	23.5	21.8	13.4	6.7	0.0	0.0	0.0	0.0	0.0
82.5°	25.2	28.5	31.9	28.5	18.5	8.4	3.4	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	5.0	1.7	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°	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6
2.5°	3677.1	3640.2	3692.2	3615.0	3613.3	3615.0	3593.2	3573.1	3605.0	3690.5	3698.9
5°	2806.5	2885.3	2910.5	2992.7	2947.4	2880.3	2893.7	2848.4	2959.1	3007.8	2969.2
7.5°	2043.2	2038.2	2207.6	2217.7	2239.5	2241.1	2237.8	2148.9	2058.3	2078.4	2138.8
10°	1585.2	1499.7	1581.9	1573.5	1627.2	1612.1	1633.9	1538.3	1570.1	1570.1	1608.7
12.5°	1291.7	1201.1	1186.0	1164.2	1186.0	1194.4	1202.8	1184.3	1238.0	1263.2	1290.0
15°	986.4	936.0	922.6	880.7	887.4	910.9	931.0	939.4	922.6	961.2	964.6
17.5°	716.3	714.6	723.0	721.3	714.6	709.6	707.9	686.1	679.4	682.7	696.2
20°	543.5	556.9	585.4	614.0	629.1	610.6	585.4	548.5	533.4	536.8	538.5
22.5°	464.7	484.8	523.4	555.3	570.4	536.8	491.5	459.6	452.9	451.2	449.6
25°	421.1	444.5	473.1	483.1	481.4	461.3	427.8	414.3	411.0	407.6	392.5
27.5°	397.6	406.0	411.0	422.7	427.8	414.3	406.0	385.8	382.5	382.5	372.4
30°	384.1	379.1	385.8	377.4	384.1	374.1	375.8	375.8	367.4	370.7	370.7
32.5°	357.3	359.0	359.0	342.2	347.2	335.5	347.2	357.3	359.0	360.7	374.1
35°	261.7	291.9	307.0	307.0	312.0	303.6	302.0	290.2	275.1	260.0	253.3
37.5°	229.8	241.6	261.7	273.4	281.8	275.1	260.0	241.6	233.2	226.5	219.8
40°	204.7	214.7	228.1	241.6	258.3	249.9	226.5	218.1	208.0	208.0	201.3
42.5°	184.5	189.6	197.9	218.1	236.5	219.8	203.0	196.3	191.2	189.6	187.9
45°	166.1	167.8	176.1	192.9	214.7	197.9	181.2	172.8	174.5	176.1	174.5
47.5°	149.3	152.7	157.7	177.8	191.2	182.8	164.4	159.4	159.4	159.4	161.0
50°	129.2	137.6	147.6	164.4	174.5	169.4	154.3	147.6	144.3	144.3	145.9
52.5°	115.7	122.5	135.9	156.0	169.4	161.0	145.9	135.9	129.2	127.5	130.8
55°	100.7	112.4	134.2	149.3	167.8	159.4	142.6	130.8	119.1	117.4	117.4
57.5°	90.6	109.0	129.2	147.6	162.7	156.0	142.6	127.5	112.4	110.7	110.7
60°	85.6	105.7	125.8	142.6	162.7	152.7	140.9	124.1	107.4	107.4	105.7
62.5°	80.5	99.0	119.1	135.9	156.0	147.6	135.9	119.1	102.3	102.3	99.0
65°	67.1	85.6	99.0	114.1	135.9	127.5	115.7	104.0	90.6	87.2	88.9
67.5°	47.0	58.7	72.1	87.2	100.7	97.3	92.3	83.9	72.1	70.5	68.8
70°	23.5	31.9	43.6	58.7	70.5	67.1	63.7	57.0	50.3	48.6	48.6
72.5°	3.4	10.1	18.5	26.8	36.9	38.6	36.9	35.2	33.6	31.9	33.6
75°	0.0	0.0	0.0	6.7	15.1	18.5	21.8	25.2	25.2	21.8	26.8
77.5°	0.0	0.0	0.0	0.0	1.7	8.4	16.8	21.8	26.8	23.5	31.9
80°	0.0	0.0	0.0	0.0	1.7	10.1	16.8	23.5	26.8	23.5	33.6
82.5°	0.0	0.0	0.0	0.0	1.7	11.7	16.8	21.8	25.2	23.5	30.2
85°	0.0	0.0	0.0	0.0	5.0	10.1	6.7	3.4	1.7	1.7	5.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6
2.5°	3745.9	3865.0	3992.5	4041.1	4192.1	4306.1	4383.3	4549.4	4574.5	4576.2
5°	3009.4	3069.8	3287.9	3390.2	3615.0	3789.5	3975.7	4244.1	4423.6	4437.0
7.5°	2138.8	2306.6	2398.8	2665.6	2942.3	3215.8	3492.6	3804.6	4012.6	4017.6
10°	1721.1	1830.2	1994.5	2194.2	2427.3	2705.8	3074.9	3437.2	3648.6	3700.6
12.5°	1385.6	1576.9	1764.7	1971.1	2148.9	2358.6	2756.1	3239.3	3413.7	3517.7
15°	1066.9	1241.4	1462.8	1704.3	1905.6	2185.8	2638.7	3190.6	3484.2	3519.4
17.5°	786.7	942.8	1147.4	1375.6	1677.5	2075.1	2658.8	3437.2	3714.0	3772.7
20°	565.3	655.9	816.9	1082.0	1466.1	1945.9	2679.0	3687.1	4108.2	4208.9
22.5°	447.9	484.8	590.5	825.3	1229.6	1810.0	2821.6	4165.2	4650.0	4796.0
25°	389.2	409.3	459.6	650.9	1080.3	1796.6	3049.7	4738.9	5371.4	5477.0
27.5°	375.8	379.1	422.7	597.2	999.8	1707.7	3136.9	5146.6	5820.9	5928.3
30°	395.9	449.6	452.9	504.9	850.5	1531.6	3182.2	5540.8	6201.7	6280.6
32.5°	342.2	325.4	337.2	390.9	748.2	1429.2	3267.8	5884.7	6636.2	6691.6
35°	238.2	249.9	276.8	338.9	654.2	1321.9	3289.6	6263.8	7048.9	7105.9
37.5°	219.8	226.5	248.3	288.5	575.4	1261.5	3259.4	6540.6	7476.6	7555.5
40°	204.7	213.0	224.8	261.7	516.7	1194.4	3217.4	6790.5	7738.3	7932.9
42.5°	192.9	199.6	209.7	249.9	466.3	1127.3	3158.7	7142.8	7973.2	8142.6
45°	179.5	189.6	201.3	243.2	437.8	1082.0	3115.1	7121.0	8109.0	8199.6
47.5°	166.1	182.8	196.3	226.5	429.4	1060.2	3133.6	7038.8	7998.3	7936.3
50°	152.7	174.5	197.9	187.9	409.3	1016.6	3155.4	7151.2	7735.0	7723.2
52.5°	140.9	166.1	184.5	154.3	364.0	974.6	3366.7	7298.8	7921.2	7765.2
55°	124.1	149.3	147.6	124.1	295.2	942.8	3532.8	7302.2	7795.4	7854.1
57.5°	112.4	132.5	115.7	104.0	218.1	788.4	3262.7	6122.9	6673.1	6777.1
60°	104.0	129.2	87.2	82.2	142.6	568.7	2848.4	4742.3	5304.3	5500.5
62.5°	95.6	122.5	68.8	67.1	99.0	404.3	2341.8	3969.0	4571.2	4837.9
65°	83.9	87.2	55.4	52.0	70.5	218.1	1425.9	2732.7	3417.1	3516.0
67.5°	68.8	67.1	45.3	41.9	47.0	105.7	629.1	1368.8	1981.1	2147.2
70°	55.4	55.4	38.6	33.6	33.6	48.6	164.4	545.2	895.8	991.4
72.5°	40.3	41.9	30.2	26.8	25.2	23.5	26.8	109.0	234.9	300.3
75°	35.2	36.9	30.2	23.5	18.5	15.1	11.7	10.1	13.4	21.8
77.5°	38.6	38.6	31.9	21.8	16.8	11.7	6.7	3.4	3.4	1.7
80°	48.6	50.3	41.9	28.5	20.1	13.4	8.4	3.4	1.7	1.7
82.5°	52.0	57.0	47.0	35.2	25.2	15.1	8.4	1.7	0.0	0.0
85°	13.4	21.8	36.9	31.9	25.2	15.1	8.4	1.7	0.0	0.0
87.5°	0.0	1.7	5.0	5.0	6.7	6.7	5.0	1.7	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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