

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: P528625

Luminaire Tested: **GALN-SA3D-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528625
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-SA3D-727-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA 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: 10677 lumens
Efficiency: N/A
Efficacy: 58.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

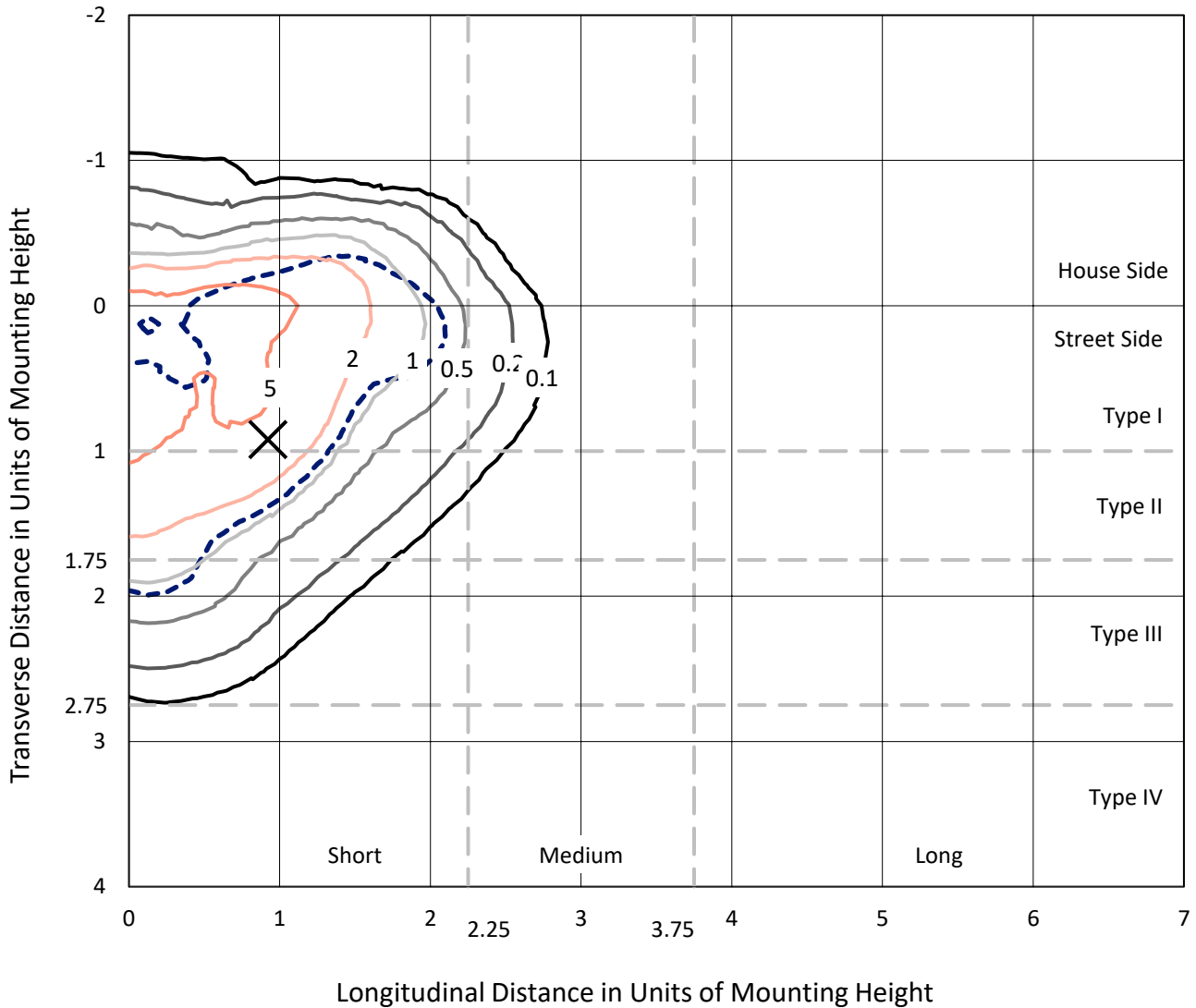
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

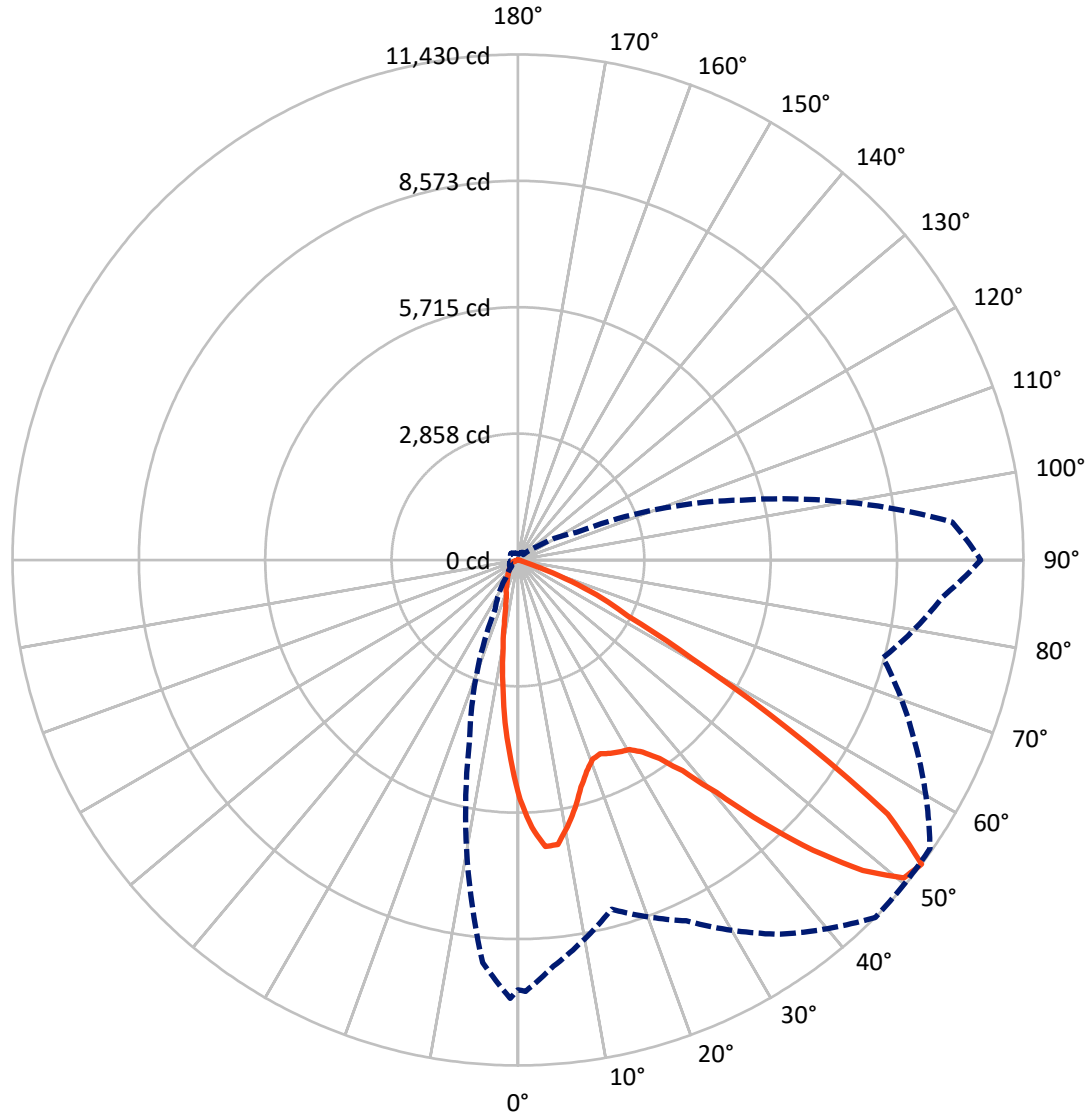
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2166.9	0.0	2166.9
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	8510.1	0.0	8510.1
	% Fixture	79.7	0.0	79.7
Total	Lumens	10677.0	0.0	10677.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.8	3.7
10°-20°	779.0	7.3
20°-30°	1185.4	11.1
30°-40°	1771.8	16.6
40°-50°	2523.2	23.6
50°-60°	2712.3	25.4
60°-70°	1201.9	11.3
70°-80°	97.2	0.9
80°-90°	11.3	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°	10677.0	100.0
0°-180°	10677.0	100.0

Coefficient of Utilization

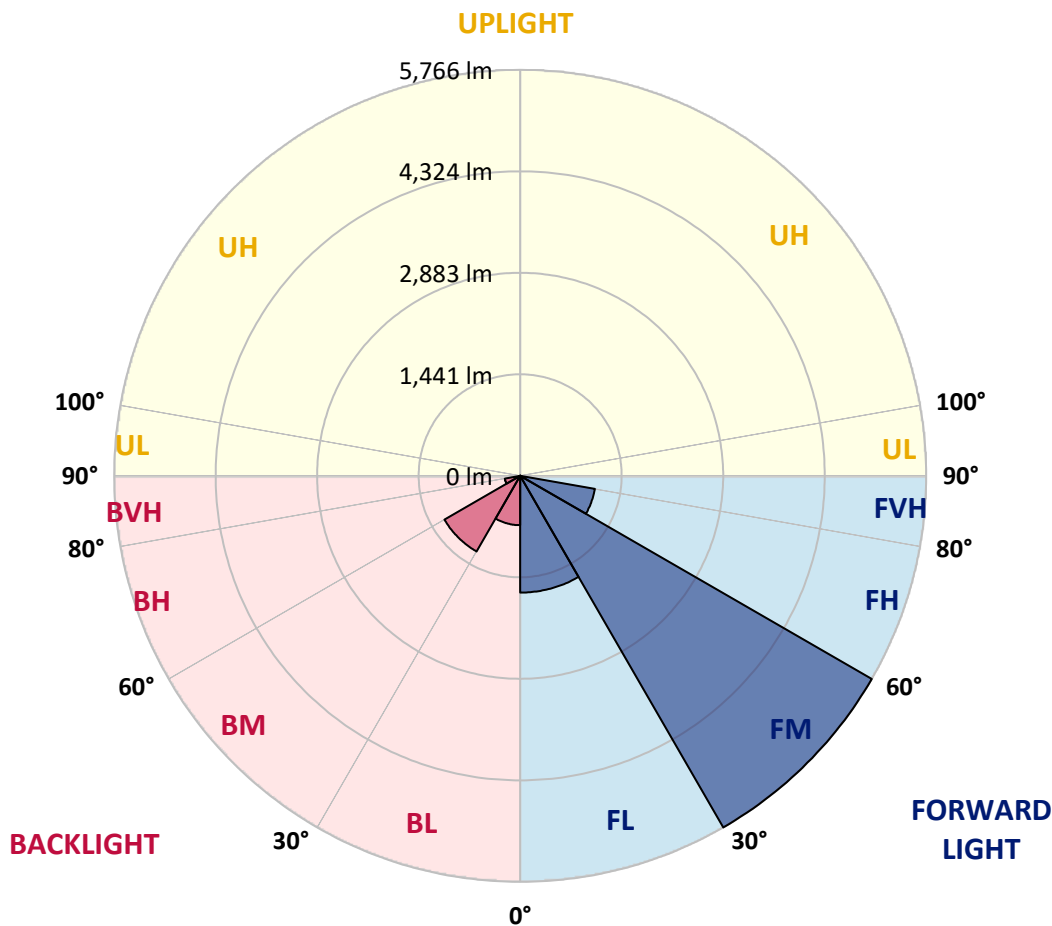


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1658.4	15.5			
FM (30°-60°)	5765.9	54.0			
FH (60°-80°)	1077.4	10.1			G1/1800
FVH (80°-90°)	8.4	0.1			G0/10
BL (0°-30°)	700.9	6.6	B2/1000		
BM (30°-60°)	1241.4	11.6	B2/2500		
BH (60°-80°)	221.7	2.1	B1/500		G1/500
BVH (80°-90°)	2.9	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°	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7
2.5°	5728.7	5745.5	5837.9	5953.4	6014.3	6152.9	6056.3	6081.5	6029.0	5844.2	5699.3
5°	5554.4	5552.3	5669.9	5955.5	6226.4	6501.5	6509.9	6362.9	6104.6	5821.1	5415.8
7.5°	5029.4	5111.3	5233.1	5688.8	6190.7	6396.5	6495.2	6323.0	5926.1	5520.8	5081.9
10°	4632.5	4674.5	4880.3	5430.5	5798.0	6073.1	6134.0	6035.3	5730.8	5224.7	4733.3
12.5°	4403.6	4424.6	4666.1	5128.1	5516.6	5720.3	5749.7	5795.9	5577.5	5102.9	4512.8
15°	4405.7	4422.5	4748.0	5134.4	5287.7	5233.1	5329.7	5327.6	5422.1	5079.8	4697.6
17.5°	4722.8	4741.7	5035.7	5226.8	5159.6	5031.5	5025.2	5121.8	5321.3	5367.5	4976.9
20°	5268.8	5312.9	5529.2	5518.7	5140.7	4882.4	4811.0	4884.5	5348.6	5611.1	5539.7
22.5°	6003.8	6064.7	6215.9	5926.1	5226.8	4781.6	4758.5	4901.3	5529.2	6155.0	6178.1
25°	6856.4	6959.3	7032.8	6661.1	5533.4	4955.9	4846.7	5092.4	5772.8	6745.1	6990.8
27.5°	7421.3	7528.4	7511.6	6980.3	5739.2	5002.1	4909.7	5138.6	5984.9	6885.8	7415.0
30°	7862.3	7927.4	8045.0	7152.5	5945.0	5132.3	4974.8	5333.9	6054.2	7129.4	7927.4
32.5°	8376.8	8420.9	8429.3	7457.0	6262.1	5296.1	5176.4	5577.5	6360.8	7362.5	8381.0
35°	8895.5	8960.6	8824.1	7832.9	6457.4	5600.6	5512.4	5999.6	6606.5	7604.0	8880.8
37.5°	9458.3	9491.9	9176.9	7988.3	6736.7	6096.2	6047.9	6455.3	7032.8	8040.8	9435.2
40°	9930.8	9962.3	9552.8	8179.4	7030.7	6789.2	6913.1	7324.7	7612.4	8324.3	9712.4
42.5°	10193.3	10266.8	9678.8	8074.4	7620.8	7574.6	8124.8	8269.7	8284.4	8404.1	9960.2
45°	10264.7	10231.1	9470.9	8160.5	8137.4	8866.1	9365.9	9557.0	8952.2	8551.1	10023.2
47.5°	9935.0	9979.1	9164.3	8084.9	8815.7	9844.7	10491.5	10846.4	9449.9	8423.0	9867.8
50°	9668.3	9611.6	9065.6	8030.3	8998.4	10306.7	11304.2	11384.0	9907.7	8580.5	9697.7
52.5°	9720.8	9756.5	9223.1	8175.2	9002.6	10334.0	11430.2	11375.6	9922.4	8544.8	9636.8
55°	9832.1	9674.6	9155.9	7856.0	8399.9	9571.7	10145.0	10061.0	9158.0	8164.7	9487.7
57.5°	8483.9	8727.5	8418.8	7013.9	6894.2	7211.3	7200.8	7459.1	6831.2	7026.5	8637.2
60°	6885.8	6927.8	7043.3	5999.6	4771.1	4661.9	4510.7	4346.9	4596.8	6008.0	7856.0
62.5°	6056.3	6005.9	6417.5	5457.8	3368.4	2820.3	2795.1	2895.9	3546.9	5730.8	7368.8
65°	4401.5	4464.5	4762.7	4235.6	2528.4	2152.5	2114.7	2412.9	2870.7	4592.6	5623.7
67.5°	2688.0	2809.8	2837.1	2612.4	1715.7	1362.9	1308.3	1579.2	2072.7	2971.5	3297.0
70°	1241.1	1388.1	1526.7	1425.9	993.3	560.7	529.2	663.6	1045.8	1709.4	1749.3
72.5°	375.9	378.0	529.2	552.3	321.3	126.0	111.3	147.0	354.9	564.9	594.3
75°	27.3	29.4	71.4	81.9	60.9	31.5	33.6	39.9	75.6	126.0	94.5
77.5°	2.1	2.1	2.1	10.5	18.9	21.0	27.3	31.5	39.9	46.2	42.0
80°	2.1	0.0	2.1	8.4	14.7	21.0	25.2	29.4	31.5	35.7	31.5
82.5°	0.0	0.0	0.0	6.3	14.7	21.0	23.1	31.5	35.7	42.0	35.7
85°	0.0	0.0	0.0	6.3	14.7	23.1	21.0	10.5	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°	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7
2.5°	5724.5	5642.6	5455.7	5361.2	5138.6	5107.1	4888.7	4853.0	4779.5	4739.6	4643.0
5°	5237.3	5138.6	4834.1	4577.9	4279.7	4071.9	3912.3	3767.4	3683.4	3605.7	3641.4
7.5°	4840.4	4552.7	4214.6	3786.3	3441.9	3219.3	2975.7	2776.2	2658.6	2578.8	2597.7
10°	4424.6	4237.7	3767.4	3286.5	2870.7	2713.2	2522.1	2368.8	2202.9	2060.1	1992.9
12.5°	4294.4	4017.3	3427.2	2937.9	2622.9	2469.6	2251.2	2074.8	1862.7	1688.4	1627.5
15°	4317.5	4050.9	3334.8	2811.9	2440.2	2175.6	1915.2	1696.8	1463.7	1341.9	1278.9
17.5°	4693.4	4231.4	3395.7	2679.6	2186.1	1818.6	1497.3	1220.1	1045.8	919.8	892.5
20°	5155.4	4622.0	3525.9	2583.0	1978.2	1446.9	1094.1	854.7	709.8	688.8	682.5
22.5°	5831.6	5260.4	3805.2	2517.9	1724.1	1127.7	749.7	621.6	581.7	577.5	579.6
25°	6776.6	6060.5	4109.7	2463.3	1533.0	869.4	613.2	527.1	514.5	508.2	518.7
27.5°	7186.1	6543.5	4271.3	2345.7	1358.7	783.3	604.8	522.9	487.2	476.7	483.0
30°	7692.2	6864.8	4525.4	2144.1	1102.5	644.7	564.9	569.1	552.3	499.8	483.0
32.5°	8364.2	7265.9	4653.5	2001.3	984.9	533.4	413.7	380.1	424.2	432.6	447.3
35°	8794.7	7673.3	4718.6	1917.3	924.0	455.7	350.7	319.2	308.7	310.8	319.2
37.5°	9594.8	8223.5	4800.5	1829.1	877.8	396.9	317.1	287.7	273.0	273.0	281.4
40°	10073.6	8660.3	4911.8	1780.8	831.6	361.2	287.7	262.5	249.9	249.9	254.1
42.5°	10193.3	8876.6	4874.0	1764.0	779.1	352.8	262.5	243.6	228.9	226.8	224.7
45°	10407.5	9206.3	4880.3	1745.1	724.5	321.3	247.8	226.8	205.8	203.7	201.6
47.5°	10642.7	9443.6	4892.9	1671.6	672.0	268.8	258.3	210.0	184.8	180.6	180.6
50°	10441.1	9632.6	5002.1	1598.1	604.8	218.4	254.1	197.4	163.8	157.5	159.6
52.5°	10466.3	9855.2	5233.1	1495.2	520.8	174.3	205.8	186.9	149.1	138.6	140.7
55°	10063.1	9620.0	5264.6	1386.0	407.4	134.4	157.5	163.8	126.0	121.8	121.8
57.5°	8662.4	8145.8	4645.1	1123.5	268.8	111.3	113.4	142.8	109.2	105.0	107.1
60°	7412.9	6539.3	3738.0	741.3	168.0	88.2	81.9	144.9	96.6	94.5	100.8
62.5°	6757.7	5373.8	2835.0	459.9	115.5	67.2	56.7	117.6	84.0	84.0	92.4
65°	4882.4	3609.9	1648.5	241.5	81.9	52.5	42.0	67.2	69.3	71.4	75.6
67.5°	3024.0	1822.8	695.1	117.6	54.6	35.7	27.3	42.0	46.2	46.2	50.4
70°	1493.1	726.6	231.0	67.2	42.0	29.4	18.9	23.1	23.1	21.0	23.1
72.5°	462.0	218.4	58.8	42.0	29.4	18.9	10.5	8.4	4.2	0.0	2.1
75°	52.5	42.0	37.8	29.4	18.9	8.4	2.1	0.0	0.0	0.0	0.0
77.5°	31.5	35.7	35.7	29.4	18.9	6.3	0.0	0.0	0.0	0.0	0.0
80°	25.2	27.3	29.4	27.3	16.8	8.4	0.0	0.0	0.0	0.0	0.0
82.5°	31.5	35.7	39.9	35.7	23.1	10.5	4.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	6.3	2.1	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°	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7
2.5°	4603.1	4556.9	4622.0	4525.4	4523.3	4525.4	4498.1	4472.9	4512.8	4619.9	4630.4
5°	3513.3	3612.0	3643.5	3746.4	3689.7	3605.7	3622.5	3565.8	3704.4	3765.3	3717.0
7.5°	2557.8	2551.5	2763.6	2776.2	2803.5	2805.6	2801.4	2690.1	2576.7	2601.9	2677.5
10°	1984.5	1877.4	1980.3	1969.8	2037.0	2018.1	2045.4	1925.7	1965.6	1965.6	2013.9
12.5°	1617.0	1503.6	1484.7	1457.4	1484.7	1495.2	1505.7	1482.6	1549.8	1581.3	1614.9
15°	1234.8	1171.8	1155.0	1102.5	1110.9	1140.3	1165.5	1176.0	1155.0	1203.3	1207.5
17.5°	896.7	894.6	905.1	903.0	894.6	888.3	886.2	858.9	850.5	854.7	871.5
20°	680.4	697.2	732.9	768.6	787.5	764.4	732.9	686.7	667.8	672.0	674.1
22.5°	581.7	606.9	655.2	695.1	714.0	672.0	615.3	575.4	567.0	564.9	562.8
25°	527.1	556.5	592.2	604.8	602.7	577.5	535.5	518.7	514.5	510.3	491.4
27.5°	497.7	508.2	514.5	529.2	535.5	518.7	508.2	483.0	478.8	478.8	466.2
30°	480.9	474.6	483.0	472.5	480.9	468.3	470.4	470.4	459.9	464.1	464.1
32.5°	447.3	449.4	449.4	428.4	434.7	420.0	434.7	447.3	449.4	451.5	468.3
35°	327.6	365.4	384.3	384.3	390.6	380.1	378.0	363.3	344.4	325.5	317.1
37.5°	287.7	302.4	327.6	342.3	352.8	344.4	325.5	302.4	291.9	283.5	275.1
40°	256.2	268.8	285.6	302.4	323.4	312.9	283.5	273.0	260.4	260.4	252.0
42.5°	231.0	237.3	247.8	273.0	296.1	275.1	254.1	245.7	239.4	237.3	235.2
45°	207.9	210.0	220.5	241.5	268.8	247.8	226.8	216.3	218.4	220.5	218.4
47.5°	186.9	191.1	197.4	222.6	239.4	228.9	205.8	199.5	199.5	199.5	201.6
50°	161.7	172.2	184.8	205.8	218.4	212.1	193.2	184.8	180.6	180.6	182.7
52.5°	144.9	153.3	170.1	195.3	212.1	201.6	182.7	170.1	161.7	159.6	163.8
55°	126.0	140.7	168.0	186.9	210.0	199.5	178.5	163.8	149.1	147.0	147.0
57.5°	113.4	136.5	161.7	184.8	203.7	195.3	178.5	159.6	140.7	138.6	138.6
60°	107.1	132.3	157.5	178.5	203.7	191.1	176.4	155.4	134.4	134.4	132.3
62.5°	100.8	123.9	149.1	170.1	195.3	184.8	170.1	149.1	128.1	128.1	123.9
65°	84.0	107.1	123.9	142.8	170.1	159.6	144.9	130.2	113.4	109.2	111.3
67.5°	58.8	73.5	90.3	109.2	126.0	121.8	115.5	105.0	90.3	88.2	86.1
70°	29.4	39.9	54.6	73.5	88.2	84.0	79.8	71.4	63.0	60.9	60.9
72.5°	4.2	12.6	23.1	33.6	46.2	48.3	46.2	44.1	42.0	39.9	42.0
75°	0.0	0.0	0.0	8.4	18.9	23.1	27.3	31.5	31.5	27.3	33.6
77.5°	0.0	0.0	0.0	0.0	2.1	10.5	21.0	27.3	33.6	29.4	39.9
80°	0.0	0.0	0.0	0.0	2.1	12.6	21.0	29.4	33.6	29.4	42.0
82.5°	0.0	0.0	0.0	0.0	2.1	14.7	21.0	27.3	31.5	29.4	37.8
85°	0.0	0.0	0.0	0.0	6.3	12.6	8.4	4.2	2.1	2.1	6.3
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°	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7
2.5°	4689.2	4838.3	4997.9	5058.8	5247.8	5390.6	5487.2	5695.1	5726.6	5728.7
5°	3767.4	3843.0	4116.0	4244.0	4525.4	4743.8	4976.9	5312.9	5537.6	5554.4
7.5°	2677.5	2887.5	3003.0	3336.9	3683.4	4025.7	4372.1	4762.7	5023.1	5029.4
10°	2154.6	2291.1	2496.9	2746.8	3038.7	3387.3	3849.3	4302.8	4567.4	4632.5
12.5°	1734.6	1974.0	2209.2	2467.5	2690.1	2952.6	3450.3	4055.1	4273.4	4403.6
15°	1335.6	1554.0	1831.2	2133.6	2385.6	2736.3	3303.3	3994.2	4361.6	4405.7
17.5°	984.9	1180.2	1436.4	1722.0	2100.0	2597.7	3328.5	4302.8	4649.3	4722.8
20°	707.7	821.1	1022.7	1354.5	1835.4	2436.0	3353.7	4615.7	5142.8	5268.8
22.5°	560.7	606.9	739.2	1033.2	1539.3	2265.9	3532.2	5214.2	5821.1	6003.8
25°	487.2	512.4	575.4	814.8	1352.4	2249.1	3817.8	5932.4	6724.1	6856.4
27.5°	470.4	474.6	529.2	747.6	1251.6	2137.8	3927.0	6442.7	7286.9	7421.3
30°	495.6	562.8	567.0	632.1	1064.7	1917.3	3983.7	6936.2	7763.6	7862.3
32.5°	428.4	407.4	422.1	489.3	936.6	1789.2	4090.8	7366.7	8307.5	8376.8
35°	298.2	312.9	346.5	424.2	819.0	1654.8	4118.1	7841.3	8824.1	8895.5
37.5°	275.1	283.5	310.8	361.2	720.3	1579.2	4080.3	8187.8	9359.6	9458.3
40°	256.2	266.7	281.4	327.6	646.8	1495.2	4027.8	8500.7	9687.2	9930.8
42.5°	241.5	249.9	262.5	312.9	583.8	1411.2	3954.3	8941.7	9981.2	10193.3
45°	224.7	237.3	252.0	304.5	548.1	1354.5	3899.7	8914.4	10151.3	10264.7
47.5°	207.9	228.9	245.7	283.5	537.6	1327.2	3922.8	8811.5	10012.7	9935.0
50°	191.1	218.4	247.8	235.2	512.4	1272.6	3950.1	8952.2	9683.0	9668.3
52.5°	176.4	207.9	231.0	193.2	455.7	1220.1	4214.6	9137.0	9916.1	9720.8
55°	155.4	186.9	184.8	155.4	369.6	1180.2	4422.5	9141.2	9758.6	9832.1
57.5°	140.7	165.9	144.9	130.2	273.0	987.0	4084.5	7664.9	8353.7	8483.9
60°	130.2	161.7	109.2	102.9	178.5	711.9	3565.8	5936.6	6640.1	6885.8
62.5°	119.7	153.3	86.1	84.0	123.9	506.1	2931.6	4968.5	5722.4	6056.3
65°	105.0	109.2	69.3	65.1	88.2	273.0	1785.0	3420.9	4277.6	4401.5
67.5°	86.1	84.0	56.7	52.5	58.8	132.3	787.5	1713.6	2480.1	2688.0
70°	69.3	69.3	48.3	42.0	42.0	60.9	205.8	682.5	1121.4	1241.1
72.5°	50.4	52.5	37.8	33.6	31.5	29.4	33.6	136.5	294.0	375.9
75°	44.1	46.2	37.8	29.4	23.1	18.9	14.7	12.6	16.8	27.3
77.5°	48.3	48.3	39.9	27.3	21.0	14.7	8.4	4.2	4.2	2.1
80°	60.9	63.0	52.5	35.7	25.2	16.8	10.5	4.2	2.1	2.1
82.5°	65.1	71.4	58.8	44.1	31.5	18.9	10.5	2.1	0.0	0.0
85°	16.8	27.3	46.2	39.9	31.5	18.9	10.5	2.1	0.0	0.0
87.5°	0.0	2.1	6.3	6.3	8.4	8.4	6.3	2.1	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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