

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: P529951

Luminaire Tested: **GALN-SA5A-827-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529951
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-SA5A-827-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 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: 9307 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

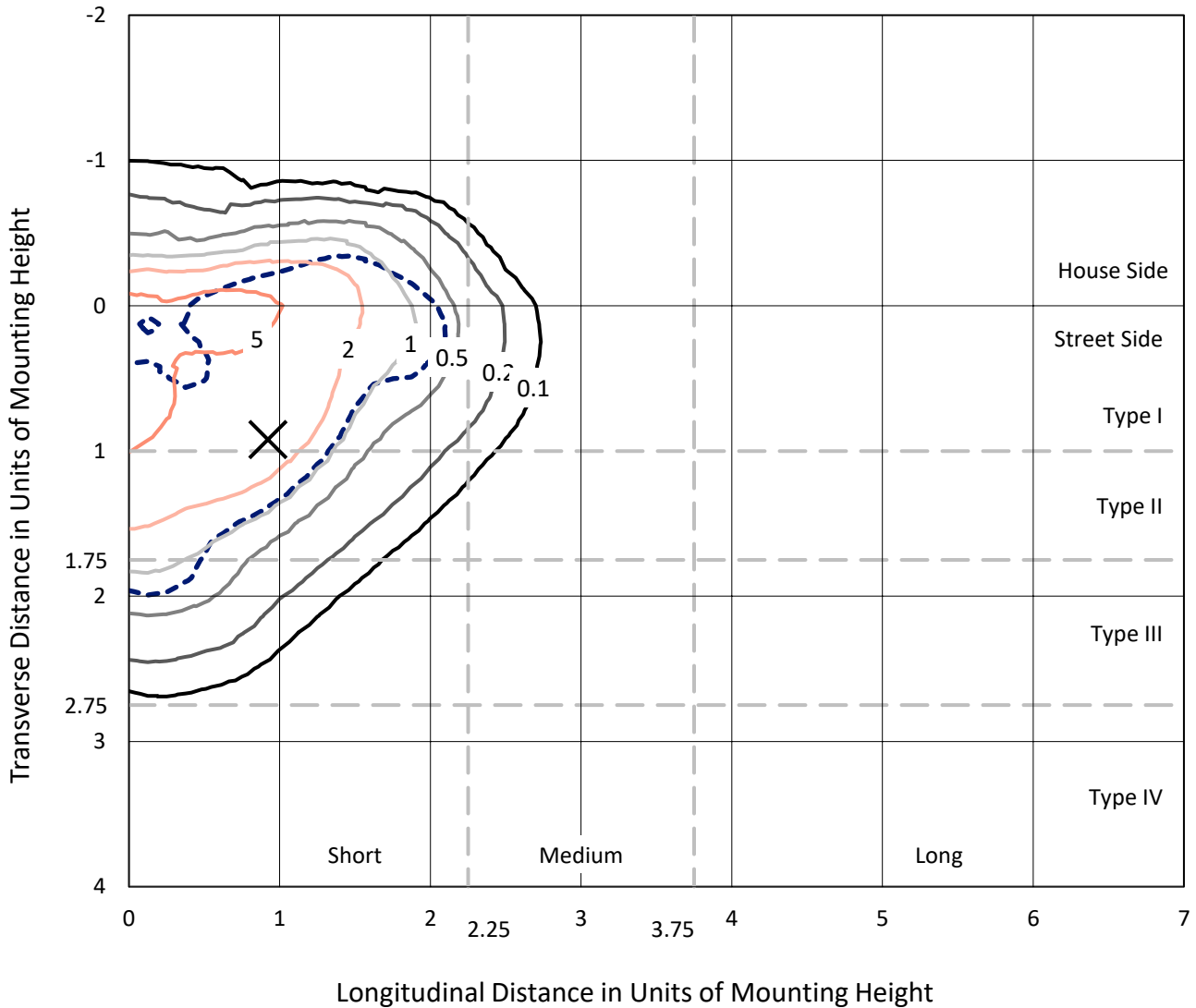
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

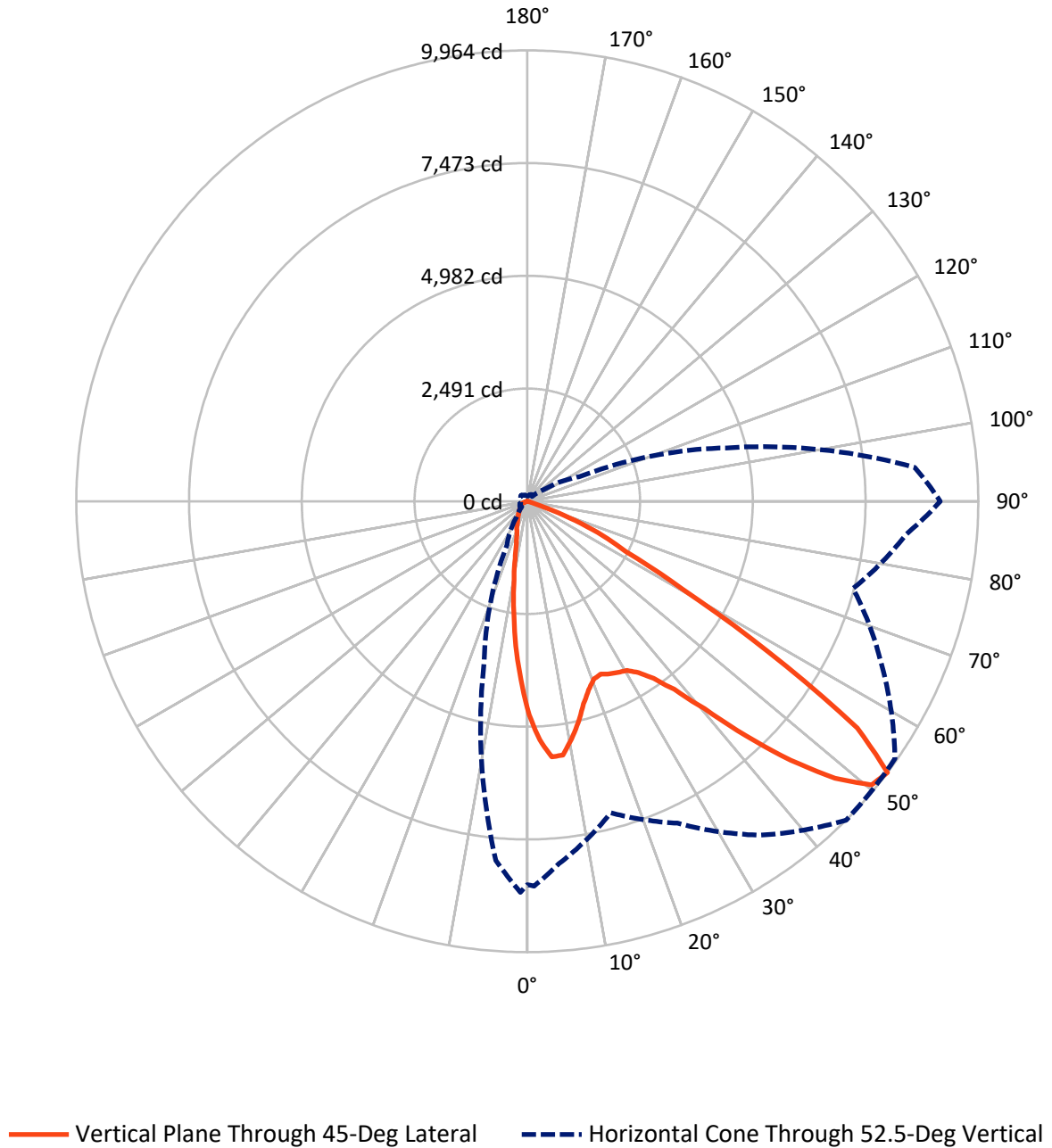
✕ Max cd
 - - - 1/2 Max cd



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	1888.9	0.0	1888.9
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	7418.1	0.0	7418.1
	% Fixture	79.7	0.0	79.7
Total	Lumens	9307.0	0.0	9307.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.2	3.7
10°-20°	679.0	7.3
20°-30°	1033.3	11.1
30°-40°	1544.4	16.6
40°-50°	2199.4	23.6
50°-60°	2364.3	25.4
60°-70°	1047.7	11.3
70°-80°	84.8	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°	9307.0	100.0
0°-180°	9307.0	100.0

Coefficient of Utilization

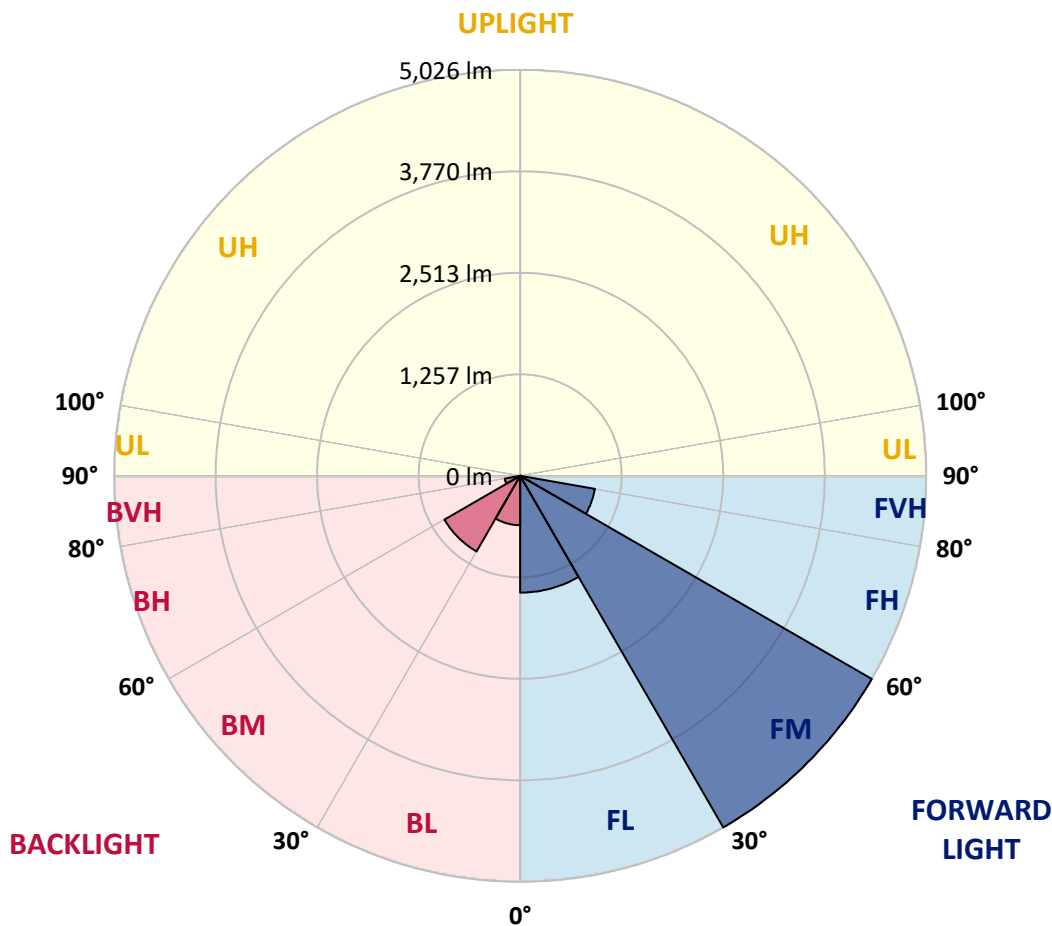


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1445.6	15.5			
FM (30°-60°)	5026.1	54.0			
FH (60°-80°)	939.2	10.1			G1/1800
FVH (80°-90°)	7.3	0.1			G0/10
BL (0°-30°)	610.9	6.6	B2/1000		
BM (30°-60°)	1082.1	11.6	B2/2500		
BH (60°-80°)	193.3	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°	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1
2.5°	4993.7	5008.3	5088.8	5189.5	5242.6	5363.4	5279.2	5301.2	5255.4	5094.3	4968.0
5°	4841.7	4839.9	4942.4	5191.4	5427.5	5667.3	5674.6	5546.5	5321.3	5074.2	4720.9
7.5°	4384.1	4455.5	4561.7	4958.9	5396.4	5575.8	5661.8	5511.7	5165.7	4812.4	4429.9
10°	4038.1	4074.7	4254.1	4733.7	5054.1	5293.9	5347.0	5260.9	4995.5	4554.3	4126.0
12.5°	3838.6	3856.9	4067.4	4470.1	4808.8	4986.3	5012.0	5052.2	4861.9	4448.2	3933.8
15°	3840.4	3855.1	4138.8	4475.6	4609.3	4561.7	4645.9	4644.0	4726.4	4428.0	4094.9
17.5°	4116.8	4133.3	4389.6	4556.2	4497.6	4385.9	4380.4	4464.6	4638.5	4678.8	4338.3
20°	4592.8	4631.2	4819.8	4810.6	4481.1	4256.0	4193.7	4257.8	4662.3	4891.2	4828.9
22.5°	5233.5	5286.5	5418.3	5165.7	4556.2	4168.1	4148.0	4272.4	4819.8	5365.3	5385.4
25°	5976.6	6066.3	6130.4	5806.4	4823.4	4320.0	4224.8	4439.0	5032.1	5879.6	6093.8
27.5°	6469.1	6562.4	6547.8	6084.6	5002.8	4360.3	4279.8	4479.3	5217.0	6002.3	6463.6
30°	6853.5	6910.2	7012.7	6234.8	5182.2	4473.8	4336.5	4649.5	5277.4	6214.6	6910.2
32.5°	7301.9	7340.4	7347.7	6500.2	5458.6	4616.6	4512.2	4861.9	5544.6	6417.8	7305.6
35°	7754.1	7810.8	7691.8	6827.8	5628.9	4882.0	4805.1	5229.8	5758.8	6628.3	7741.3
37.5°	8244.7	8274.0	7999.4	6963.3	5872.3	5314.0	5271.9	5627.0	6130.4	7009.1	8224.5
40°	8656.5	8684.0	8327.0	7129.9	6128.6	5918.1	6026.1	6384.9	6635.6	7256.2	8466.2
42.5°	8885.3	8949.4	8436.9	7038.4	6643.0	6602.7	7082.3	7208.6	7221.4	7325.7	8682.2
45°	8947.6	8918.3	8255.6	7113.4	7093.3	7728.5	8164.1	8330.7	7803.5	7453.9	8737.1
47.5°	8660.2	8698.6	7988.4	7047.5	7684.5	8581.5	9145.3	9454.6	8237.3	7342.2	8601.6
50°	8427.7	8378.3	7902.4	6999.9	7843.8	8984.2	9853.7	9923.3	8636.4	7479.5	8453.3
52.5°	8473.5	8504.6	8039.6	7126.2	7847.4	9008.0	9963.5	9915.9	8649.2	7448.4	8400.3
55°	8570.5	8433.2	7981.1	6848.0	7322.1	8343.5	8843.2	8770.0	7982.9	7117.1	8270.3
57.5°	7395.3	7607.6	7338.6	6113.9	6009.6	6286.0	6276.9	6502.0	5954.7	6124.9	7528.9
60°	6002.3	6038.9	6139.6	5229.8	4158.9	4063.8	3932.0	3789.2	4007.0	5237.1	6848.0
62.5°	5279.2	5235.3	5594.1	4757.5	2936.2	2458.4	2436.4	2524.3	3091.7	4995.5	6423.3
65°	3836.8	3891.7	4151.6	3692.2	2203.9	1876.3	1843.3	2103.3	2502.3	4003.3	4902.1
67.5°	2343.1	2449.2	2473.0	2277.2	1495.5	1188.0	1140.4	1376.6	1806.7	2590.2	2873.9
70°	1081.8	1210.0	1330.8	1242.9	865.8	488.7	461.3	578.4	911.6	1490.0	1524.8
72.5°	327.7	329.5	461.3	481.4	280.1	109.8	97.0	128.1	309.4	492.4	518.0
75°	23.8	25.6	62.2	71.4	53.1	27.5	29.3	34.8	65.9	109.8	82.4
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	25.6	27.5	31.1	27.5
82.5°	0.0	0.0	0.0	5.5	12.8	18.3	20.1	27.5	31.1	36.6	31.1
85°	0.0	0.0	0.0	5.5	12.8	20.1	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°	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1
2.5°	4990.0	4918.6	4755.7	4673.3	4479.3	4451.8	4261.5	4230.3	4166.3	4131.5	4047.3
5°	4565.3	4479.3	4213.9	3990.5	3730.6	3549.4	3410.3	3284.0	3210.7	3143.0	3174.1
7.5°	4219.3	3968.6	3673.9	3300.4	3000.2	2806.2	2593.8	2419.9	2317.4	2247.9	2264.4
10°	3856.9	3694.0	3284.0	2864.8	2502.3	2365.0	2198.5	2064.8	1920.2	1795.7	1737.2
12.5°	3743.4	3501.8	2987.4	2560.9	2286.3	2152.7	1962.3	1808.6	1623.7	1471.7	1418.7
15°	3763.5	3531.1	2906.9	2451.1	2127.1	1896.4	1669.4	1479.1	1275.9	1169.7	1114.8
17.5°	4091.2	3688.5	2960.0	2335.7	1905.6	1585.2	1305.2	1063.5	911.6	801.8	778.0
20°	4493.9	4029.0	3073.4	2251.5	1724.4	1261.2	953.7	745.0	618.7	600.4	594.9
22.5°	5083.4	4585.5	3316.9	2194.8	1502.9	983.0	653.5	541.8	507.1	503.4	505.2
25°	5907.1	5282.9	3582.3	2147.2	1336.3	757.8	534.5	459.5	448.5	443.0	452.1
27.5°	6264.0	5703.9	3723.3	2044.7	1184.3	682.8	527.2	455.8	424.7	415.5	421.0
30°	6705.2	5984.0	3944.8	1869.0	961.0	562.0	492.4	496.1	481.4	435.7	421.0
32.5°	7291.0	6333.6	4056.4	1744.5	858.5	465.0	360.6	331.3	369.8	377.1	389.9
35°	7666.2	6688.7	4113.2	1671.3	805.4	397.2	305.7	278.2	269.1	270.9	278.2
37.5°	8363.6	7168.3	4184.6	1594.4	765.2	346.0	276.4	250.8	238.0	238.0	245.3
40°	8781.0	7549.1	4281.6	1552.3	724.9	314.8	250.8	228.8	217.8	217.8	221.5
42.5°	8885.3	7737.6	4248.6	1537.6	679.1	307.5	228.8	212.3	199.5	197.7	195.9
45°	9072.1	8025.0	4254.1	1521.2	631.5	280.1	216.0	197.7	179.4	177.6	175.7
47.5°	9277.1	8231.9	4265.1	1457.1	585.8	234.3	225.2	183.1	161.1	157.4	157.4
50°	9101.3	8396.6	4360.3	1393.0	527.2	190.4	221.5	172.1	142.8	137.3	139.1
52.5°	9123.3	8590.6	4561.7	1303.3	454.0	151.9	179.4	162.9	130.0	120.8	122.6
55°	8771.9	8385.6	4589.1	1208.1	355.1	117.2	137.3	142.8	109.8	106.2	106.2
57.5°	7550.9	7100.6	4049.1	979.3	234.3	97.0	98.8	124.5	95.2	91.5	93.4
60°	6461.7	5700.2	3258.3	646.2	146.4	76.9	71.4	126.3	84.2	82.4	87.9
62.5°	5890.6	4684.3	2471.2	400.9	100.7	58.6	49.4	102.5	73.2	73.2	80.5
65°	4256.0	3146.7	1437.0	210.5	71.4	45.8	36.6	58.6	60.4	62.2	65.9
67.5°	2635.9	1588.9	605.9	102.5	47.6	31.1	23.8	36.6	40.3	40.3	43.9
70°	1301.5	633.4	201.4	58.6	36.6	25.6	16.5	20.1	20.1	18.3	20.1
72.5°	402.7	190.4	51.3	36.6	25.6	16.5	9.2	7.3	3.7	0.0	1.8
75°	45.8	36.6	32.9	25.6	16.5	7.3	1.8	0.0	0.0	0.0	0.0
77.5°	27.5	31.1	31.1	25.6	16.5	5.5	0.0	0.0	0.0	0.0	0.0
80°	22.0	23.8	25.6	23.8	14.6	7.3	0.0	0.0	0.0	0.0	0.0
82.5°	27.5	31.1	34.8	31.1	20.1	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°	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1
2.5°	4012.5	3972.2	4029.0	3944.8	3942.9	3944.8	3921.0	3899.0	3933.8	4027.1	4036.3
5°	3062.5	3148.5	3176.0	3265.6	3216.2	3143.0	3157.6	3108.2	3229.0	3282.1	3240.0
7.5°	2229.6	2224.1	2409.0	2419.9	2443.7	2445.6	2441.9	2344.9	2246.0	2268.0	2333.9
10°	1729.8	1636.5	1726.2	1717.0	1775.6	1759.1	1782.9	1678.6	1713.4	1713.4	1755.5
12.5°	1409.5	1310.7	1294.2	1270.4	1294.2	1303.3	1312.5	1292.3	1350.9	1378.4	1407.7
15°	1076.3	1021.4	1006.8	961.0	968.3	994.0	1015.9	1025.1	1006.8	1048.9	1052.5
17.5°	781.6	779.8	789.0	787.1	779.8	774.3	772.5	748.7	741.4	745.0	759.7
20°	593.1	607.7	638.9	670.0	686.4	666.3	638.9	598.6	582.1	585.8	587.6
22.5°	507.1	529.0	571.1	605.9	622.4	585.8	536.3	501.6	494.2	492.4	490.6
25°	459.5	485.1	516.2	527.2	525.4	503.4	466.8	452.1	448.5	444.8	428.3
27.5°	433.8	443.0	448.5	461.3	466.8	452.1	443.0	421.0	417.4	417.4	406.4
30°	419.2	413.7	421.0	411.9	419.2	408.2	410.0	410.0	400.9	404.5	404.5
32.5°	389.9	391.7	391.7	373.4	378.9	366.1	378.9	389.9	391.7	393.6	408.2
35°	285.6	318.5	335.0	335.0	340.5	331.3	329.5	316.7	300.2	283.7	276.4
37.5°	250.8	263.6	285.6	298.4	307.5	300.2	283.7	263.6	254.4	247.1	239.8
40°	223.3	234.3	249.0	263.6	281.9	272.7	247.1	238.0	227.0	227.0	219.7
42.5°	201.4	206.8	216.0	238.0	258.1	239.8	221.5	214.2	208.7	206.8	205.0
45°	181.2	183.1	192.2	210.5	234.3	216.0	197.7	188.5	190.4	192.2	190.4
47.5°	162.9	166.6	172.1	194.0	208.7	199.5	179.4	173.9	173.9	173.9	175.7
50°	141.0	150.1	161.1	179.4	190.4	184.9	168.4	161.1	157.4	157.4	159.3
52.5°	126.3	133.6	148.3	170.2	184.9	175.7	159.3	148.3	141.0	139.1	142.8
55°	109.8	122.6	146.4	162.9	183.1	173.9	155.6	142.8	130.0	128.1	128.1
57.5°	98.8	119.0	141.0	161.1	177.6	170.2	155.6	139.1	122.6	120.8	120.8
60°	93.4	115.3	137.3	155.6	177.6	166.6	153.8	135.5	117.2	117.2	115.3
62.5°	87.9	108.0	130.0	148.3	170.2	161.1	148.3	130.0	111.7	111.7	108.0
65°	73.2	93.4	108.0	124.5	148.3	139.1	126.3	113.5	98.8	95.2	97.0
67.5°	51.3	64.1	78.7	95.2	109.8	106.2	100.7	91.5	78.7	76.9	75.1
70°	25.6	34.8	47.6	64.1	76.9	73.2	69.6	62.2	54.9	53.1	53.1
72.5°	3.7	11.0	20.1	29.3	40.3	42.1	40.3	38.4	36.6	34.8	36.6
75°	0.0	0.0	0.0	7.3	16.5	20.1	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	25.6	34.8
80°	0.0	0.0	0.0	0.0	1.8	11.0	18.3	25.6	29.3	25.6	36.6
82.5°	0.0	0.0	0.0	0.0	1.8	12.8	18.3	23.8	27.5	25.6	32.9
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°	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1
2.5°	4087.6	4217.5	4356.6	4409.7	4574.5	4698.9	4783.1	4964.4	4991.8	4993.7
5°	3284.0	3349.9	3587.8	3699.5	3944.8	4135.1	4338.3	4631.2	4827.1	4841.7
7.5°	2333.9	2517.0	2617.6	2908.7	3210.7	3509.1	3811.1	4151.6	4378.6	4384.1
10°	1878.1	1997.1	2176.5	2394.3	2648.8	2952.6	3355.3	3750.7	3981.4	4038.1
12.5°	1512.0	1720.7	1925.7	2150.9	2344.9	2573.7	3007.5	3534.7	3725.1	3838.6
15°	1164.2	1354.6	1596.2	1859.8	2079.5	2385.2	2879.4	3481.6	3802.0	3840.4
17.5°	858.5	1028.8	1252.1	1501.0	1830.5	2264.4	2901.4	3750.7	4052.8	4116.8
20°	616.9	715.7	891.5	1180.7	1599.9	2123.4	2923.3	4023.5	4482.9	4592.8
22.5°	488.7	529.0	644.3	900.6	1341.8	1975.1	3078.9	4545.2	5074.2	5233.5
25°	424.7	446.6	501.6	710.2	1178.9	1960.5	3327.9	5171.2	5861.3	5976.6
27.5°	410.0	413.7	461.3	651.7	1091.0	1863.5	3423.1	5616.0	6351.9	6469.1
30°	432.0	490.6	494.2	551.0	928.1	1671.3	3472.5	6046.2	6767.4	6853.5
32.5°	373.4	355.1	367.9	426.5	816.4	1559.6	3565.9	6421.5	7241.5	7301.9
35°	259.9	272.7	302.0	369.8	713.9	1442.5	3589.7	6835.2	7691.8	7754.1
37.5°	239.8	247.1	270.9	314.8	627.9	1376.6	3556.7	7137.2	8158.6	8244.7
40°	223.3	232.5	245.3	285.6	563.8	1303.3	3510.9	7409.9	8444.2	8656.5
42.5°	210.5	217.8	228.8	272.7	508.9	1230.1	3446.9	7794.4	8700.5	8885.3
45°	195.9	206.8	219.7	265.4	477.8	1180.7	3399.3	7770.6	8848.7	8947.6
47.5°	181.2	199.5	214.2	247.1	468.6	1156.9	3419.4	7680.9	8727.9	8660.2
50°	166.6	190.4	216.0	205.0	446.6	1109.3	3443.2	7803.5	8440.5	8427.7
52.5°	153.8	181.2	201.4	168.4	397.2	1063.5	3673.9	7964.6	8643.7	8473.5
55°	135.5	162.9	161.1	135.5	322.2	1028.8	3855.1	7968.3	8506.4	8570.5
57.5°	122.6	144.6	126.3	113.5	238.0	860.3	3560.4	6681.4	7281.8	7395.3
60°	113.5	141.0	95.2	89.7	155.6	620.5	3108.2	5174.9	5788.1	6002.3
62.5°	104.3	133.6	75.1	73.2	108.0	441.2	2555.4	4331.0	4988.2	5279.2
65°	91.5	95.2	60.4	56.7	76.9	238.0	1555.9	2981.9	3728.8	3836.8
67.5°	75.1	73.2	49.4	45.8	51.3	115.3	686.4	1493.7	2161.8	2343.1
70°	60.4	60.4	42.1	36.6	36.6	53.1	179.4	594.9	977.5	1081.8
72.5°	43.9	45.8	32.9	29.3	27.5	25.6	29.3	119.0	256.3	327.7
75°	38.4	40.3	32.9	25.6	20.1	16.5	12.8	11.0	14.6	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	54.9	45.8	31.1	22.0	14.6	9.2	3.7	1.8	1.8
82.5°	56.7	62.2	51.3	38.4	27.5	16.5	9.2	1.8	0.0	0.0
85°	14.6	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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