

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: P451160

Luminaire Tested: **GALN-SA2A-730-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-730-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7219 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

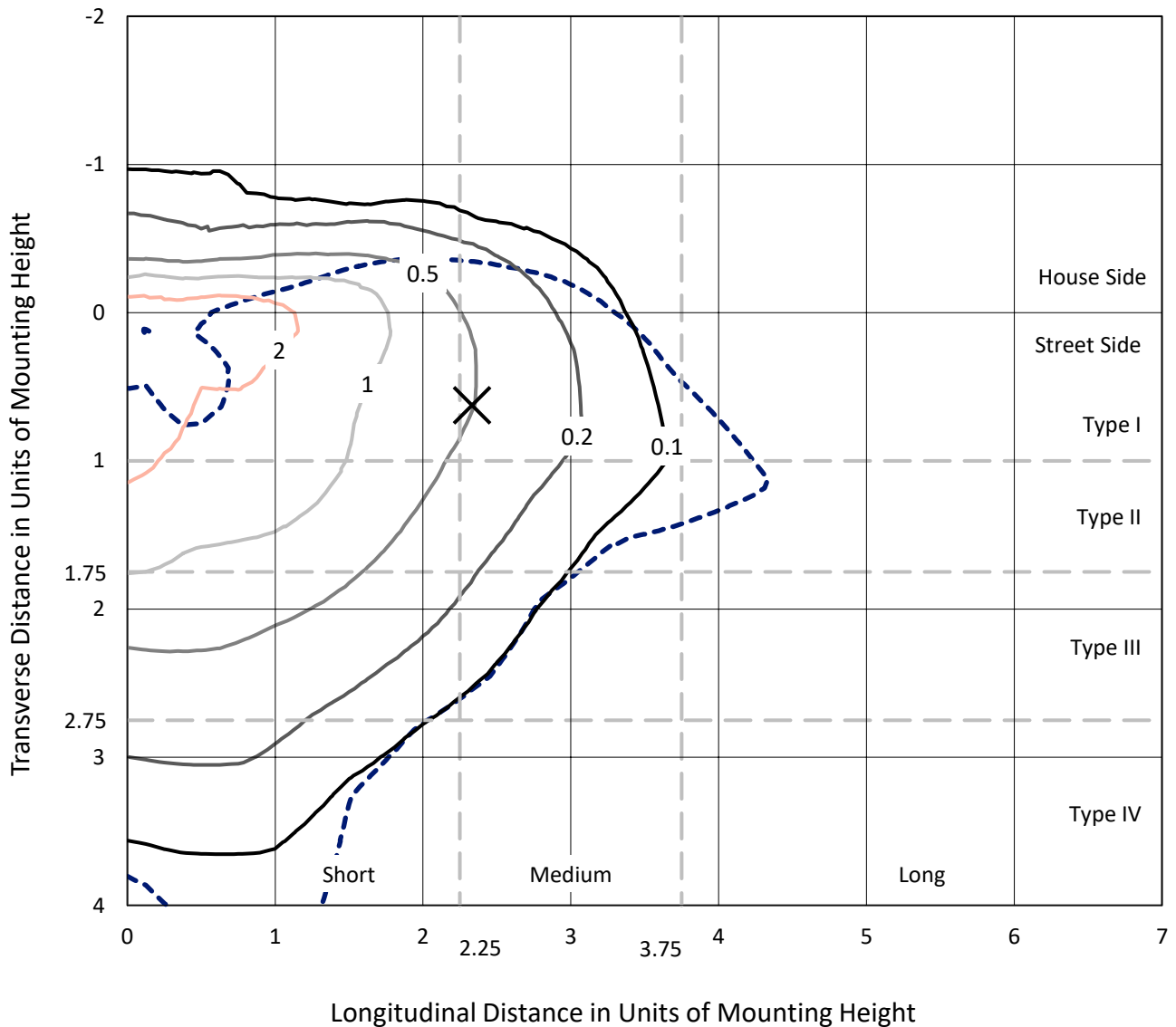
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

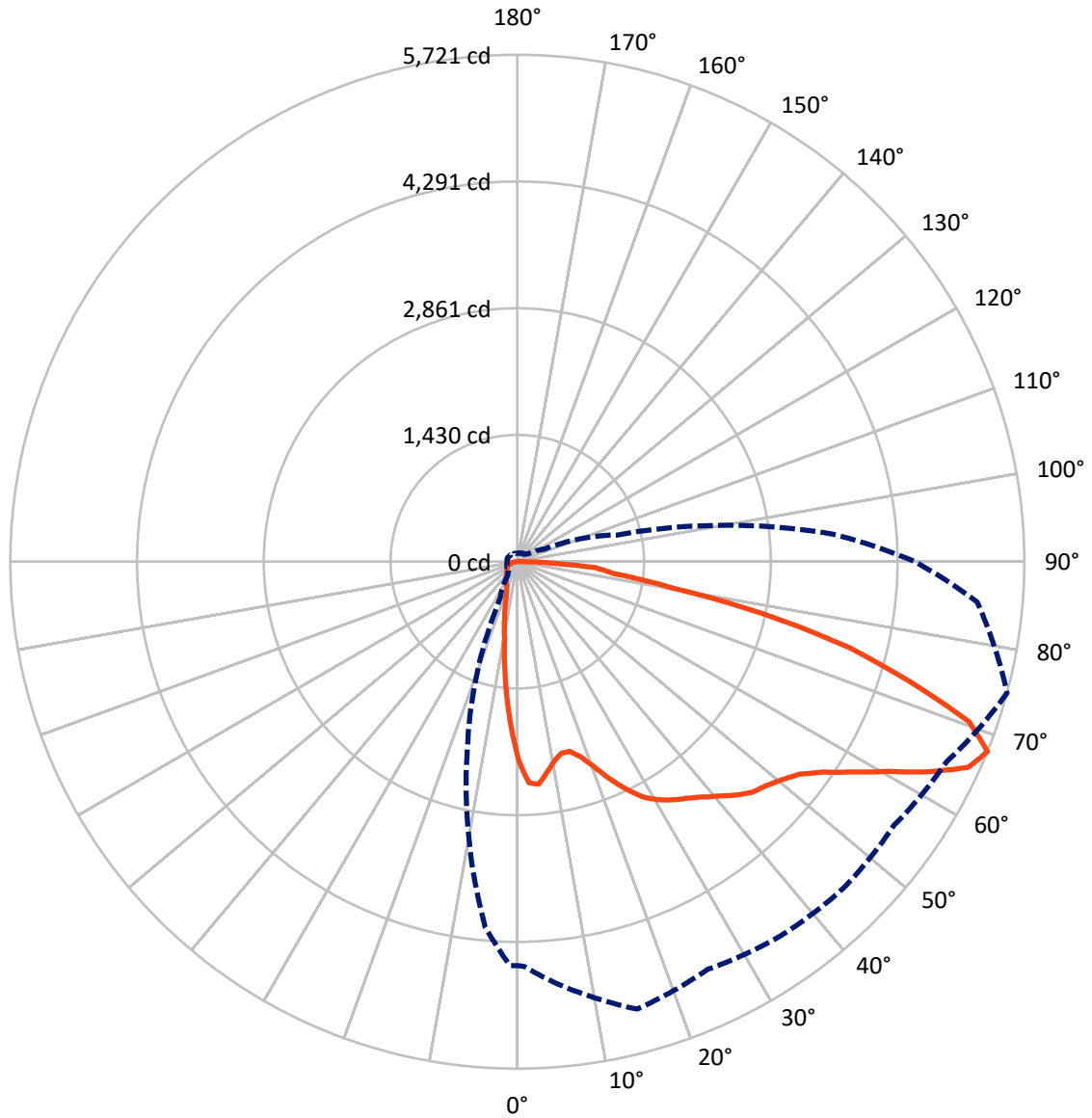
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1220.2	0.0	1220.2
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	5998.8	0.0	5998.8
	% Fixture	83.1	0.0	83.1
Total	Lumens	7219.0	0.0	7219.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.1	2.4
10°-20°	356.8	4.9
20°-30°	513.4	7.1
30°-40°	739.4	10.2
40°-50°	1038.7	14.4
50°-60°	1448.6	20.1
60°-70°	1722.3	23.9
70°-80°	1014.3	14.1
80°-90°	214.5	3.0
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°	7219.0	100.0
0°-180°	7219.0	100.0

Coefficient of Utilization



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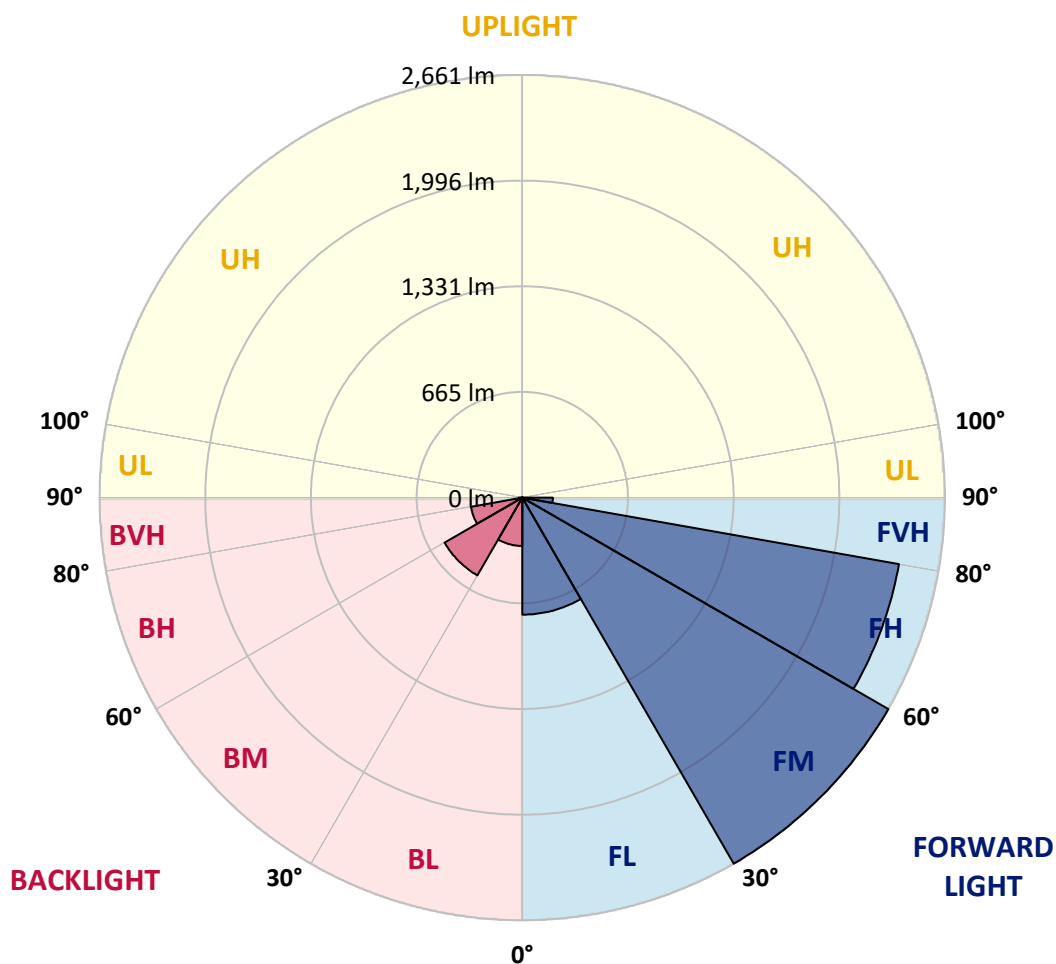
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	736.9	10.2			
FM	(30°-60°)	2661.4	36.9			
FH	(60°-80°)	2408.3	33.4			G2/5000
FVH	(80°-90°)	192.3	2.7			G2/225
BL	(0°-30°)	304.4	4.2	B1/500		
BM	(30°-60°)	565.3	7.8	B1/1000		
BH	(60°-80°)	328.3	4.5	B1/500		G1/500
BVH	(80°-90°)	22.2	0.3			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4
2.5°	2431.8	2435.0	2455.8	2516.5	2558.1	2573.4	2584.1	2564.2	2544.7	2497.5	2426.2
5°	2424.4	2443.3	2497.5	2633.6	2741.0	2787.3	2801.2	2741.5	2642.9	2521.6	2375.7
7.5°	2282.7	2308.2	2391.5	2619.7	2809.0	2917.4	2903.0	2795.2	2617.4	2401.2	2197.5
10°	2114.7	2142.9	2243.4	2519.3	2763.2	2912.3	2912.3	2780.8	2544.7	2287.8	2053.1
12.5°	1981.3	2011.0	2125.8	2416.0	2667.9	2809.0	2832.7	2719.7	2492.4	2216.0	1958.2
15°	1937.4	1966.1	2089.7	2353.5	2566.9	2653.0	2660.9	2623.9	2466.9	2221.1	1954.0
17.5°	1992.0	2029.0	2154.0	2372.0	2474.4	2479.4	2485.5	2514.6	2469.7	2314.2	2038.3
20°	2149.8	2189.7	2320.2	2431.8	2393.3	2340.6	2343.8	2418.8	2502.6	2467.9	2239.6
22.5°	2377.6	2412.3	2546.1	2536.8	2359.1	2250.3	2227.6	2332.2	2551.2	2659.5	2454.0
25°	2623.4	2664.2	2817.8	2692.9	2368.8	2196.6	2182.2	2281.3	2601.7	2838.7	2701.6
27.5°	2904.9	2944.7	3066.0	2850.2	2419.7	2192.4	2175.3	2276.7	2647.0	3004.4	2938.2
30°	3114.1	3150.7	3233.1	2982.6	2482.2	2220.2	2198.9	2313.3	2685.9	3117.8	3168.7
32.5°	3278.5	3316.4	3361.3	3065.0	2564.6	2270.7	2231.3	2379.9	2736.8	3204.4	3339.6
35°	3449.7	3494.6	3491.4	3138.2	2641.5	2329.0	2290.6	2476.2	2816.9	3279.8	3556.2
37.5°	3666.9	3684.9	3661.8	3203.9	2733.6	2434.1	2412.8	2619.2	2930.8	3371.0	3809.4
40°	3887.2	3923.3	3804.3	3283.6	2845.6	2631.7	2629.4	2830.8	3066.0	3478.0	4054.8
42.5°	4076.1	4106.6	3937.7	3353.0	2981.3	2872.9	2890.5	3114.6	3243.3	3602.0	4252.0
45°	4218.2	4245.5	4060.8	3420.1	3159.9	3151.6	3255.3	3418.7	3466.9	3713.6	4367.7
47.5°	4339.0	4365.4	4146.4	3522.0	3380.8	3484.5	3665.0	3735.8	3658.1	3777.5	4497.3
50°	4440.9	4448.7	4205.2	3643.2	3654.8	3892.3	4067.3	4113.1	3846.9	3869.2	4609.8
52.5°	4546.9	4536.7	4306.6	3796.0	3951.1	4279.3	4406.6	4454.3	4027.9	3982.1	4773.7
55°	4784.4	4794.1	4533.9	3988.6	4250.6	4659.4	4827.0	4781.1	4228.4	4190.0	4982.0
57.5°	5071.4	5063.0	4853.8	4290.0	4555.7	5013.1	5138.0	5064.4	4496.0	4475.6	5193.1
60°	5182.9	5194.1	5121.4	4614.0	4856.6	5322.7	5450.5	5336.2	4816.8	4807.5	5352.4
62.5°	5070.9	5133.4	5182.5	4902.4	5113.0	5550.5	5677.4	5546.8	5151.5	5218.6	5463.9
65°	4847.8	4861.2	5028.3	5146.8	5236.6	5588.0	5654.2	5584.8	5431.1	5593.1	5458.8
67.5°	4558.0	4569.6	4765.4	5226.9	5077.4	5162.1	5208.4	5188.0	5344.5	5721.3	5207.5
70°	4282.1	4272.8	4479.8	5022.8	4420.0	4291.3	4329.8	4265.9	4611.7	5407.9	4714.5
72.5°	3745.1	3778.4	4000.6	4455.2	3499.7	3290.5	3374.3	3209.0	3547.0	4631.6	3826.6
75°	2933.6	2941.4	3312.3	3739.1	2640.1	2310.0	2423.4	2354.5	2716.9	3863.6	2642.4
77.5°	2031.3	2013.7	2412.3	2855.8	1882.7	1691.1	1692.9	1660.1	1897.1	2844.7	1795.2
80°	1290.2	1263.3	1510.1	1764.2	1293.9	1384.2	1338.8	1337.4	1235.1	1755.0	1085.6
82.5°	697.2	726.8	954.1	1105.9	928.2	1069.8	980.5	951.8	847.6	1098.5	694.4
85°	317.6	345.3	508.8	752.3	705.0	712.9	476.4	562.0	701.3	892.1	370.8
87.5°	31.0	39.8	105.1	355.1	240.7	189.8	70.8	136.6	176.4	317.1	29.6
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°	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4
2.5°	2397.0	2373.0	2291.0	2223.4	2151.7	2097.1	2025.8	1978.1	1945.2	1895.7	1889.7
5°	2286.9	2228.1	2085.5	1940.1	1814.7	1720.2	1624.4	1536.5	1484.6	1468.4	1447.6
7.5°	2101.2	2002.2	1818.8	1652.2	1508.2	1367.5	1259.2	1182.3	1130.9	1100.8	1064.7
10°	1948.5	1833.7	1610.5	1406.4	1287.9	1200.4	1105.0	1022.6	959.2	905.0	875.4
12.5°	1845.7	1716.1	1465.2	1299.4	1207.8	1114.7	1003.2	910.6	817.1	755.5	729.1
15°	1814.7	1677.7	1420.3	1246.2	1114.7	993.0	868.0	747.2	654.6	596.3	576.8
17.5°	1890.6	1724.9	1419.8	1175.4	1005.5	860.1	699.9	586.5	491.6	448.1	434.2
20°	2032.3	1815.6	1424.0	1105.5	887.0	682.4	509.2	416.2	370.8	352.3	345.3
22.5°	2229.9	1954.0	1436.5	1036.5	757.4	524.0	381.5	334.2	318.0	314.8	313.4
25°	2473.4	2125.3	1478.6	974.5	648.1	400.0	319.0	297.7	288.4	285.2	284.7
27.5°	2697.5	2346.6	1529.5	921.2	542.6	344.9	288.4	270.4	261.1	260.6	261.6
30°	2899.8	2531.8	1572.1	861.5	462.5	306.5	268.5	250.4	241.6	241.2	244.0
32.5°	3074.8	2684.1	1603.6	802.7	418.0	282.8	250.4	231.0	223.6	222.2	223.6
35°	3261.8	2835.9	1589.2	756.9	392.6	263.4	237.0	218.0	209.2	205.1	205.1
37.5°	3475.2	2992.4	1564.7	718.9	381.0	247.2	225.4	206.9	198.1	194.0	193.5
40°	3708.1	3148.8	1530.9	685.1	369.4	237.5	217.6	198.1	187.5	183.3	182.4
42.5°	3913.6	3282.6	1503.1	662.9	350.4	239.3	210.6	191.7	178.2	172.7	172.2
45°	4092.3	3417.3	1498.0	650.0	334.7	236.6	208.8	186.6	170.8	164.8	163.9
47.5°	4232.1	3557.6	1527.2	642.5	317.6	221.7	220.8	183.3	164.3	157.9	156.9
50°	4402.4	3756.7	1593.9	627.3	301.8	207.9	233.3	182.9	159.2	150.9	148.6
52.5°	4629.3	4015.9	1684.1	600.0	279.1	194.9	222.7	182.9	153.2	144.9	142.1
55°	4972.3	4346.4	1772.6	561.5	247.2	177.8	200.9	177.3	144.4	137.0	135.2
57.5°	5199.6	4588.1	1829.0	508.3	207.4	165.3	173.1	168.5	135.6	127.8	127.8
60°	5211.2	4652.9	1802.2	441.2	182.4	153.7	150.5	169.9	127.8	119.4	118.5
62.5°	5077.9	4494.1	1662.4	381.0	169.0	141.2	136.1	149.1	119.9	111.6	110.2
65°	4869.5	4089.0	1419.8	352.3	161.6	130.1	122.7	122.2	111.6	103.7	101.8
67.5°	4486.7	3573.3	1166.6	335.6	157.9	117.6	110.6	108.3	101.8	95.4	94.4
70°	3922.4	2992.8	935.6	328.7	156.0	104.6	99.1	96.3	90.7	85.6	85.2
72.5°	3051.6	2427.6	772.2	324.0	155.1	92.6	86.6	82.9	79.6	75.0	75.0
75°	2192.0	1786.0	589.3	292.1	143.5	79.6	73.1	70.8	66.2	62.5	63.4
77.5°	1381.8	1202.7	387.9	214.8	111.1	63.9	58.3	56.9	53.2	48.1	51.4
80°	933.3	845.8	226.4	135.2	69.9	46.8	44.9	44.4	40.3	34.7	35.2
82.5°	635.1	623.1	117.6	76.8	40.3	27.3	26.4	27.3	22.7	18.5	18.5
85°	248.1	338.9	55.6	30.1	13.0	4.2	6.0	6.5	3.7	1.9	2.3
87.5°	4.6	34.7	1.4	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°	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4
2.5°	1880.4	1876.2	1883.2	1853.6	1859.6	1870.7	1876.2	1879.5	1925.3	1914.7	1943.8
5°	1467.0	1462.9	1489.7	1493.4	1507.3	1504.5	1517.9	1521.2	1537.8	1543.9	1584.6
7.5°	1067.0	1085.1	1115.7	1131.4	1155.0	1162.4	1155.5	1172.6	1137.9	1162.9	1170.3
10°	857.3	835.6	822.6	858.7	863.4	897.6	883.7	872.6	893.0	893.9	913.4
12.5°	713.8	667.1	636.1	646.2	657.4	672.2	674.5	696.7	711.5	725.4	737.0
15°	559.7	543.5	515.2	501.4	517.1	523.1	537.5	556.0	571.7	575.9	591.6
17.5°	429.6	432.4	427.7	419.4	429.1	433.8	434.7	435.2	439.3	436.5	459.7
20°	345.8	355.5	367.1	369.0	372.2	374.5	370.3	354.6	355.1	364.8	372.2
22.5°	312.9	314.8	327.8	331.9	342.1	337.9	325.9	318.5	317.6	319.9	323.6
25°	287.0	289.8	299.1	305.5	313.4	306.0	297.2	290.3	289.3	291.6	295.3
27.5°	263.9	268.0	276.4	282.8	290.3	283.3	275.0	269.0	268.5	268.0	270.4
30°	245.4	250.0	256.0	263.4	268.5	262.5	254.6	251.4	250.9	250.0	250.9
32.5°	226.8	234.2	240.3	244.0	249.1	244.4	238.4	236.6	233.3	230.5	229.1
35°	206.0	213.9	223.1	227.8	232.9	228.2	224.1	216.2	210.6	210.2	211.1
37.5°	194.0	197.2	204.6	212.5	217.6	215.3	207.4	199.5	198.1	198.1	199.1
40°	183.3	184.7	187.9	198.1	207.4	200.4	190.7	188.4	188.4	187.9	188.4
42.5°	172.7	174.1	174.1	181.9	196.7	185.6	178.2	178.2	178.2	178.7	180.1
45°	163.0	163.4	163.0	168.5	182.4	173.1	168.0	169.4	170.4	171.3	172.2
47.5°	154.6	155.1	154.6	159.2	166.2	162.5	159.7	161.6	163.4	164.8	165.7
50°	147.2	146.7	147.7	150.5	153.7	154.6	152.8	155.5	156.5	158.3	160.6
52.5°	140.7	140.3	141.2	142.6	147.2	147.2	147.2	149.5	151.4	153.2	156.5
55°	133.3	133.8	135.2	137.0	143.0	142.1	142.6	144.4	146.3	149.1	150.9
57.5°	126.4	127.3	129.2	131.9	138.0	137.5	138.0	138.9	141.2	142.6	144.4
60°	118.5	120.4	122.7	124.5	130.5	130.1	132.4	134.2	135.6	135.6	136.6
62.5°	110.6	113.4	115.7	117.1	123.6	124.1	127.3	128.7	129.6	128.7	130.1
65°	102.8	106.9	107.9	109.7	116.2	116.7	120.4	123.6	122.7	121.8	124.1
67.5°	94.9	100.0	99.5	101.8	108.3	109.3	112.5	118.0	116.2	115.3	117.1
70°	86.1	89.8	90.3	91.7	100.5	99.1	104.2	109.3	107.9	108.3	108.3
72.5°	76.4	79.6	79.6	82.4	91.7	89.3	93.5	99.1	99.1	98.6	98.6
75°	64.8	66.7	68.5	72.7	82.4	79.6	82.4	87.5	88.4	87.5	87.5
77.5°	52.3	55.1	56.0	61.6	68.5	68.1	70.8	73.1	75.0	74.1	74.1
80°	37.0	39.8	43.5	49.5	53.7	55.1	56.5	58.3	59.3	59.3	60.2
82.5°	20.8	25.0	28.2	34.3	36.1	43.1	42.6	44.0	42.6	37.5	41.7
85°	4.6	8.8	12.5	15.7	18.1	25.0	26.4	29.6	24.5	22.7	22.7
87.5°	0.0	0.0	0.0	0.0	0.0	3.7	7.4	10.2	8.8	7.4	7.4
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°	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4
2.5°	1968.4	2008.6	2057.3	2141.0	2199.8	2263.3	2327.1	2395.2	2413.2	2431.8
5°	1595.7	1674.9	1717.9	1830.4	1948.5	2098.5	2221.1	2355.4	2411.4	2424.4
7.5°	1208.7	1262.4	1375.4	1489.2	1635.5	1792.9	1980.9	2190.1	2255.4	2282.7
10°	958.3	1031.4	1130.5	1252.7	1380.9	1550.3	1762.4	2006.8	2099.4	2114.7
12.5°	815.7	897.2	1005.0	1134.2	1255.5	1383.2	1597.1	1849.4	1948.5	1981.3
15°	652.3	750.9	875.4	1011.5	1143.4	1283.2	1499.9	1784.6	1898.9	1937.4
17.5°	512.5	592.1	726.8	874.5	1030.9	1207.8	1479.5	1815.6	1956.3	1992.0
20°	392.1	449.0	562.5	718.5	901.8	1133.2	1484.6	1932.7	2101.2	2149.8
22.5°	338.9	368.0	437.0	585.6	790.7	1068.4	1505.4	2093.4	2296.6	2377.6
25°	306.9	322.2	361.1	458.3	684.7	1005.5	1553.1	2309.5	2569.7	2623.4
27.5°	279.6	290.7	314.8	384.7	588.4	947.2	1608.7	2549.3	2824.8	2904.9
30°	253.7	268.5	291.2	341.6	526.8	893.9	1678.6	2743.8	3039.6	3114.1
32.5°	233.8	248.6	269.4	311.6	474.5	837.9	1720.2	2914.6	3215.0	3278.5
35°	217.6	230.1	251.8	287.5	434.7	795.3	1711.9	3050.2	3384.9	3449.7
37.5°	206.0	216.7	238.4	264.8	404.6	750.9	1707.7	3229.4	3591.9	3666.9
40°	195.4	206.5	226.4	250.0	374.5	698.6	1710.1	3407.2	3812.2	3887.2
42.5°	187.0	199.5	215.7	245.8	343.5	656.4	1710.1	3561.8	4003.9	4076.1
45°	180.1	193.5	209.2	245.4	319.0	624.5	1698.5	3694.6	4156.6	4218.2
47.5°	174.1	188.9	211.6	237.0	312.9	601.3	1688.3	3801.1	4281.2	4339.0
50°	169.9	187.5	225.0	227.3	314.8	594.4	1737.4	3935.4	4390.9	4440.9
52.5°	166.7	187.9	224.5	212.9	311.6	599.0	1839.7	4145.1	4543.2	4546.9
55°	160.2	187.5	212.9	196.7	298.1	606.9	1971.1	4449.7	4781.6	4784.4
57.5°	153.7	182.4	197.7	182.9	270.8	606.9	2129.5	4738.1	5069.1	5071.4
60°	147.2	189.8	173.6	170.8	235.2	595.8	2296.6	4864.9	5159.3	5182.9
62.5°	140.7	191.2	155.1	160.2	209.2	568.9	2421.1	4724.6	5037.1	5070.9
65°	133.3	154.2	143.0	149.1	195.8	524.0	2381.8	4467.7	4807.5	4847.8
67.5°	124.5	130.5	130.1	137.5	191.2	457.8	2174.4	4142.7	4560.3	4558.0
70°	113.9	117.1	118.5	126.4	182.4	406.5	1811.9	3721.0	4230.2	4282.1
72.5°	102.8	105.5	106.9	113.9	173.6	377.3	1406.4	3140.0	3664.1	3745.1
75°	90.7	92.6	94.4	100.5	164.3	334.2	1001.8	2397.0	2806.3	2933.6
77.5°	78.2	78.2	80.5	86.6	138.4	275.9	672.2	1681.4	1901.2	2031.3
80°	63.4	63.9	63.0	69.4	101.8	188.9	381.9	1123.1	1265.2	1290.2
82.5°	48.6	47.2	47.7	50.9	75.9	128.7	203.7	697.6	711.1	697.2
85°	30.6	30.6	29.6	33.3	48.6	67.1	111.1	427.3	333.8	317.6
87.5°	12.5	10.2	11.6	13.4	23.1	27.3	43.5	88.0	33.8	31.0
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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