

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: P652235

Luminaire Tested: **GALN-SA2B-840-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6911.3 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

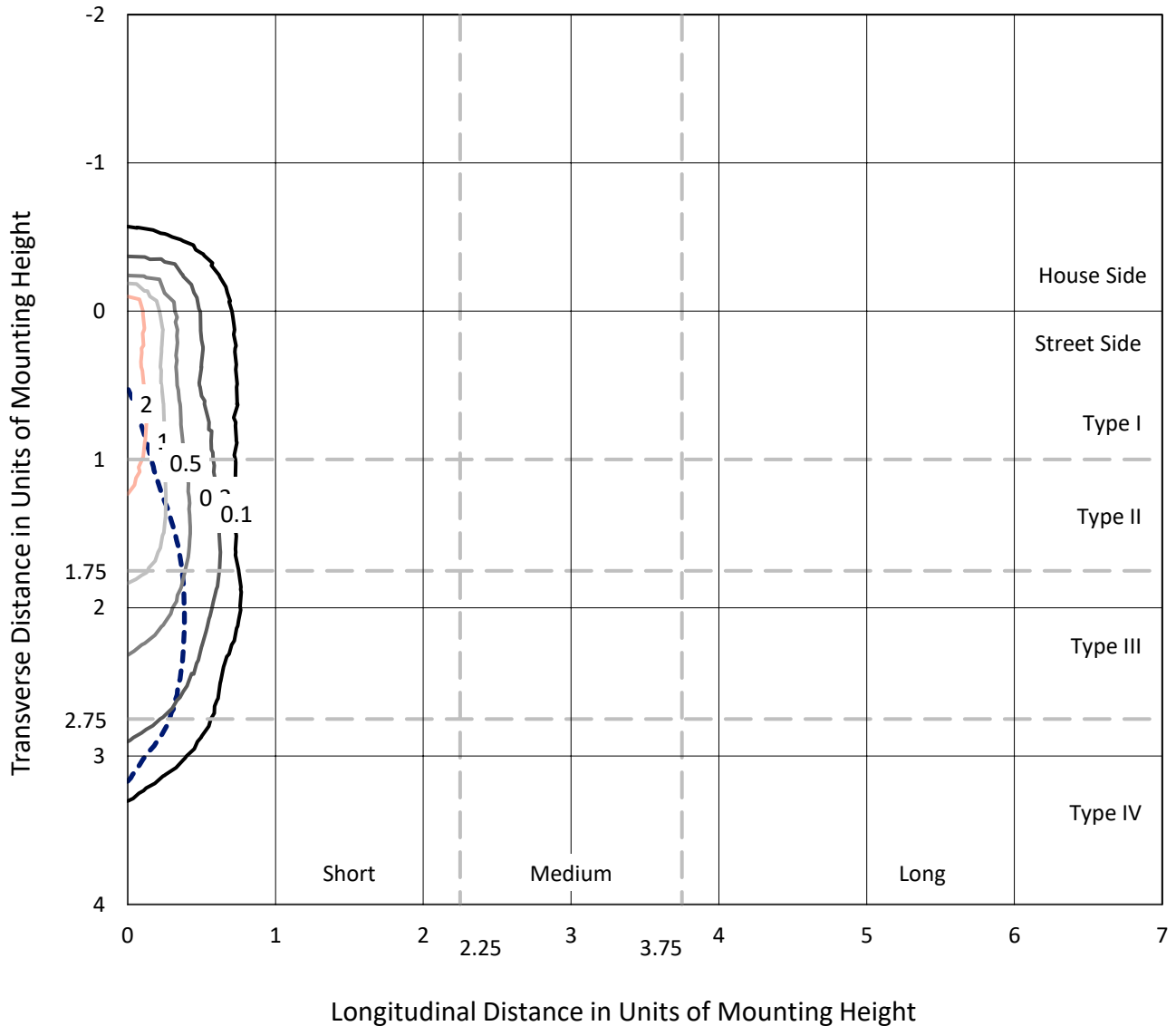
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

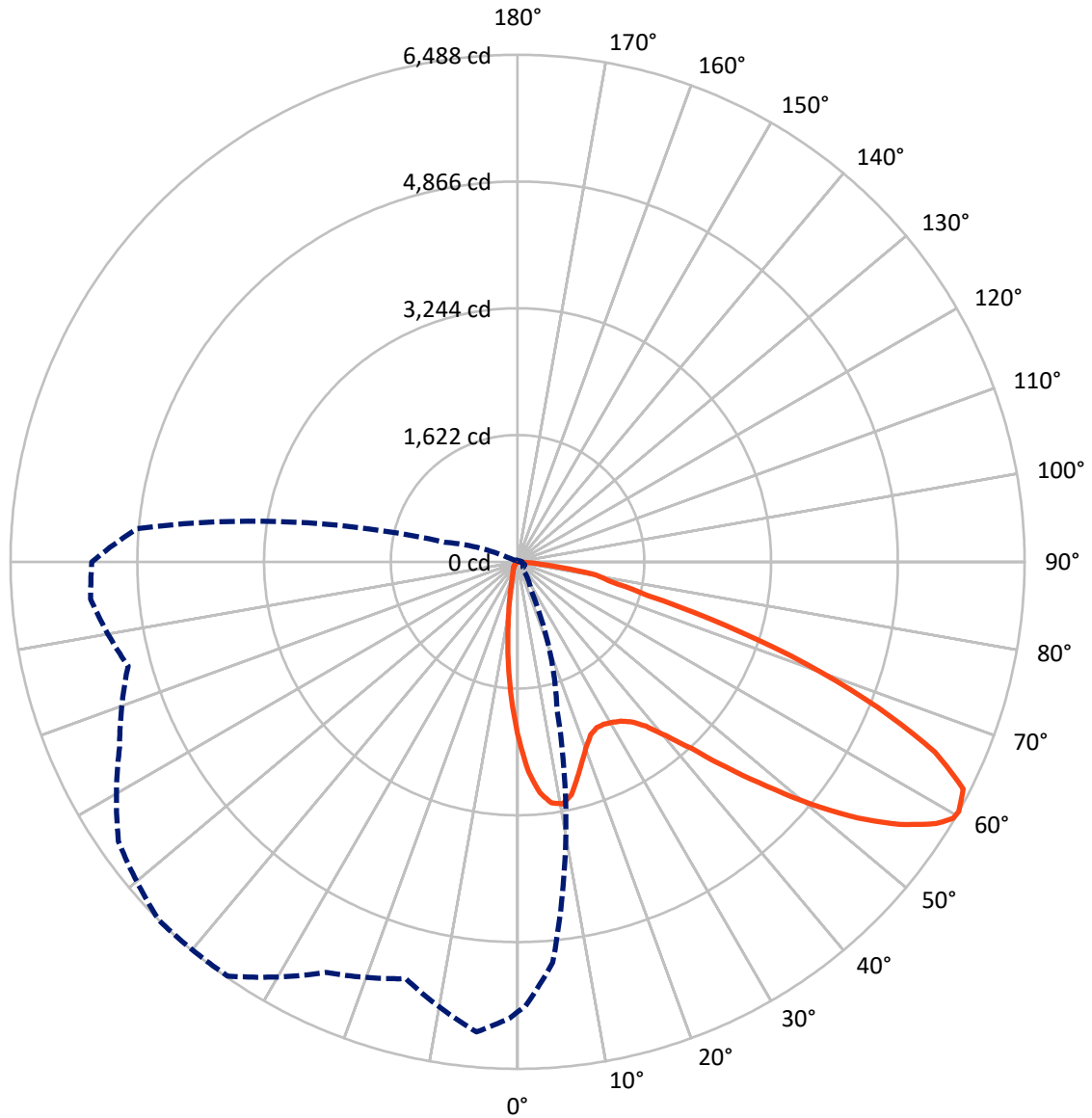
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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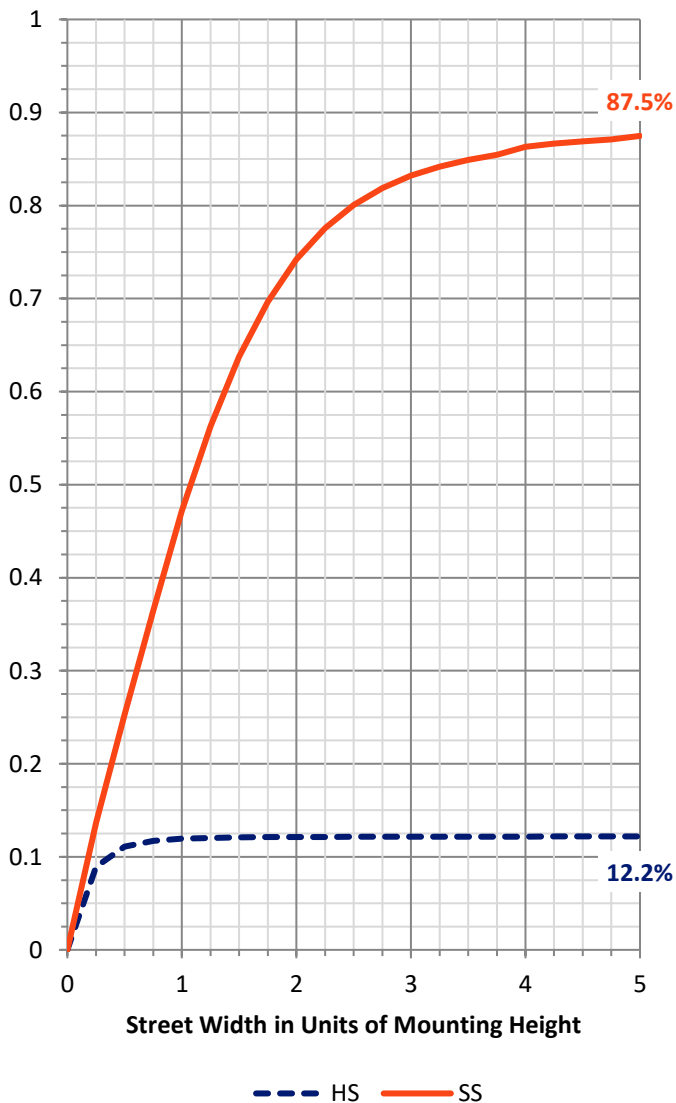
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	852.4	0.0	852.4
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	6058.9	0.0	6058.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	6911.3	0.0	6911.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.9	2.5
10°-20°	337.4	4.9
20°-30°	494.7	7.2
30°-40°	735.8	10.6
40°-50°	1070.8	15.5
50°-60°	1544.2	22.3
60°-70°	1698.4	24.6
70°-80°	760.7	11.0
80°-90°	99.4	1.4
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°	6911.3	100.0
0°-180°	6911.3	100.0

Coefficient of Utilization



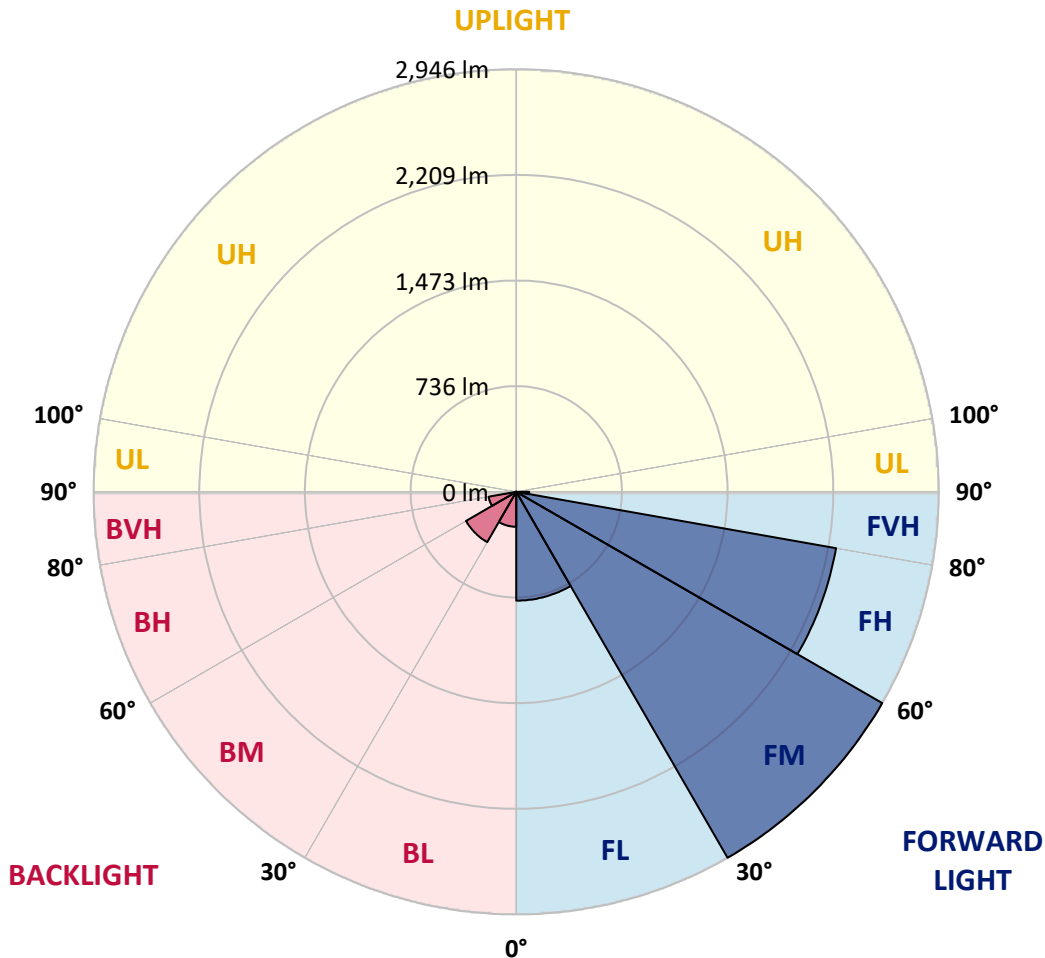
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	758.5	11.0			
FM (30°-60°)	2945.8	42.6			
FH (60°-80°)	2263.7	32.8			G2/5000
FVH (80°-90°)	90.9	1.3			G1/100
BL (0°-30°)	243.6	3.5	B1/500		
BM (30°-60°)	404.9	5.9	B1/1000		
BH (60°-80°)	195.5	2.8	B1/500		G1/500
BVH (80°-90°)	8.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3
2.5°	2511.2	2500.2	2475.0	2398.3	2331.6	2244.4	2156.1	2086.8	2044.2	1965.9	1930.2
5°	2433.0	2438.2	2365.2	2207.6	2032.1	1912.3	1781.5	1677.5	1563.0	1490.5	1414.3
7.5°	2228.6	2218.1	2138.7	1919.2	1705.9	1532.5	1367.0	1232.5	1148.0	1080.2	1023.4
10°	2053.6	2045.8	1944.4	1661.7	1432.6	1302.9	1191.0	1073.3	982.5	883.1	803.8
12.5°	1943.9	1926.0	1809.3	1514.1	1327.6	1206.8	1084.9	962.4	836.9	736.5	640.4
15°	1907.1	1881.3	1751.6	1463.2	1260.3	1106.9	954.0	813.2	668.8	557.9	485.4
17.5°	1973.8	1931.3	1793.1	1454.3	1180.0	976.7	788.6	605.2	455.0	370.4	325.7
20°	2126.7	2077.9	1898.1	1445.3	1090.7	830.6	599.5	427.6	314.7	268.4	243.8
22.5°	2353.6	2286.4	2053.6	1459.5	1008.2	688.2	432.9	302.1	250.1	221.2	203.9
25°	2626.3	2570.1	2250.7	1509.9	943.0	576.3	334.6	246.9	210.7	192.8	179.6
27.5°	2925.3	2835.4	2505.5	1570.3	883.6	489.6	293.7	220.7	187.5	171.3	164.4
30°	3138.0	3068.1	2718.8	1612.4	809.6	424.5	268.4	217.5	188.0	168.6	156.0
32.5°	3348.2	3258.9	2897.4	1631.8	755.5	379.3	232.2	189.6	165.0	155.0	142.4
35°	3573.0	3479.5	3075.5	1621.3	715.0	349.4	210.7	169.2	141.3	124.6	111.9
37.5°	3800.5	3701.7	3252.6	1583.4	689.8	337.3	193.9	160.8	133.5	116.1	102.4
40°	4070.5	3938.7	3418.6	1552.5	663.5	331.0	182.8	155.5	127.7	109.2	95.6
42.5°	4291.2	4165.6	3575.7	1536.2	645.6	316.3	182.8	151.3	124.0	103.5	89.3
45°	4500.3	4370.0	3745.3	1549.3	638.3	297.9	184.9	150.8	121.4	99.3	85.1
47.5°	4675.2	4562.3	3919.7	1598.7	628.9	278.0	173.9	158.1	119.8	95.6	80.9
50°	4881.8	4772.4	4150.4	1698.5	612.1	257.9	160.2	170.2	119.3	92.4	77.2
52.5°	5172.7	5054.6	4468.7	1812.0	585.3	227.5	147.6	168.6	117.2	87.2	73.6
55°	5528.4	5432.9	4837.6	1948.1	548.5	193.3	127.7	149.7	110.8	78.3	67.3
57.5°	5756.5	5675.0	5114.0	2006.9	492.2	158.1	112.4	125.6	101.4	69.9	59.9
59°	5783.2	5709.7	5171.7	1987.5	455.5	144.5	105.0	107.7	98.7	65.2	55.7
60°	5760.7	5684.5	5148.6	1949.6	421.3	135.0	98.7	95.6	99.3	62.5	52.6
62.5°	5615.6	5485.3	4924.3	1757.9	368.3	124.0	87.7	78.3	87.7	56.2	46.8
65°	5335.6	5140.2	4480.3	1487.8	347.2	117.7	74.6	65.7	66.7	49.4	40.5
67.5°	4846.5	4600.1	3889.3	1208.9	338.3	118.2	63.1	58.9	51.5	42.0	35.7
70°	4073.1	3827.3	3120.7	994.5	334.1	118.2	53.6	50.5	43.1	35.2	31.0
72.5°	2886.4	2621.6	2105.1	781.2	301.0	117.7	45.7	45.7	35.2	29.4	25.2
75°	1630.7	1632.8	1323.4	552.7	250.1	97.2	36.8	36.2	25.7	22.6	18.9
77.5°	950.4	933.6	892.0	237.5	116.1	44.2	25.7	22.0	17.8	16.3	13.6
80°	488.6	401.9	391.4	86.1	41.5	27.8	17.8	12.6	11.5	10.5	9.4
82.5°	144.5	145.0	129.3	34.6	23.1	18.4	8.9	6.8	6.3	5.8	5.8
85°	10.0	6.3	7.3	10.5	14.2	7.3	0.5	1.6	1.6	2.1	2.6
87.5°	1.0	0.5	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°	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3
2.5°	1890.8	1913.9	1870.8	1871.9	1836.2	1847.7	1805.7	1819.3	1794.7	1813.5	1869.3
5°	1422.7	1427.9	1393.3	1382.3	1387.5	1409.0	1417.4	1379.1	1395.4	1363.3	1361.2
7.5°	1002.4	1008.7	988.8	986.1	1023.9	1015.0	1031.3	991.9	954.6	970.9	940.9
10°	778.6	752.4	711.3	699.8	692.4	697.2	697.2	661.4	656.1	642.0	663.5
12.5°	614.7	582.6	543.8	491.2	478.1	477.0	457.6	426.1	416.1	404.0	421.8
15°	446.6	433.5	400.8	371.5	341.5	335.7	304.2	278.5	244.3	239.6	238.0
17.5°	314.2	294.8	294.2	277.4	260.0	248.5	219.1	189.6	176.5	174.9	174.9
20°	235.4	228.5	217.5	215.4	210.2	197.0	170.7	155.0	148.7	149.2	151.3
22.5°	198.1	193.3	183.3	178.6	176.5	165.0	145.5	135.0	131.9	131.9	132.4
25°	177.0	172.8	161.8	154.5	151.8	143.4	128.2	120.3	117.7	117.7	117.7
27.5°	161.3	156.0	144.5	138.2	133.5	124.0	114.5	106.6	104.0	104.0	104.5
30°	150.3	144.5	134.0	125.6	118.2	109.8	101.9	95.1	91.9	91.4	91.9
32.5°	135.6	130.3	119.8	114.5	106.1	96.1	89.8	83.5	80.4	80.9	80.4
35°	105.6	104.0	96.6	98.2	93.5	85.1	79.3	72.5	68.8	68.3	69.4
37.5°	96.1	89.8	81.4	82.0	80.4	77.2	67.8	60.4	57.8	57.8	58.3
40°	88.8	82.5	73.0	68.3	68.8	68.8	58.9	51.0	48.4	47.8	48.9
42.5°	82.5	76.2	65.7	57.8	55.7	58.3	49.9	42.0	39.4	38.3	39.4
45°	78.3	71.5	59.4	50.5	44.2	47.3	41.0	34.6	31.5	31.5	31.0
47.5°	74.1	67.8	54.7	43.6	36.8	35.2	33.6	27.8	24.7	24.1	24.7
50°	70.4	64.1	49.4	37.8	31.0	27.3	27.3	22.0	19.9	18.9	19.4
52.5°	66.7	59.9	44.7	33.6	26.8	22.0	19.4	17.8	16.3	15.7	16.3
55°	61.5	54.7	39.9	28.9	23.1	18.4	15.2	14.7	13.6	12.6	13.6
57.5°	55.2	48.9	35.2	24.7	18.4	14.2	12.6	12.1	11.0	10.5	10.5
59°	51.5	45.7	32.5	21.5	16.3	12.6	11.5	11.0	10.0	8.9	9.4
60°	49.4	44.7	31.0	19.9	14.7	11.5	10.5	10.0	8.9	8.4	8.9
62.5°	43.6	39.9	27.3	16.3	11.5	8.4	7.3	7.9	7.3	6.8	7.3
65°	38.3	35.2	23.1	12.6	8.9	5.8	5.2	6.8	6.3	5.8	6.3
67.5°	34.1	30.4	19.4	9.4	6.3	3.1	3.7	5.8	5.8	5.2	5.8
70°	29.4	26.2	15.7	6.8	3.1	1.6	2.6	4.2	5.2	4.7	5.2
72.5°	24.1	20.5	12.1	4.7	1.6	0.0	1.6	3.7	5.2	4.7	5.2
75°	18.9	15.2	8.9	2.6	0.0	0.0	0.5	3.1	5.2	4.7	5.2
77.5°	13.6	11.0	5.2	0.5	0.0	0.0	0.5	3.1	5.2	4.7	5.2
80°	8.9	7.9	2.1	0.0	0.0	0.0	0.5	3.1	5.2	5.2	5.8
82.5°	5.8	4.2	0.0	0.0	0.0	0.0	1.0	4.2	5.8	6.3	6.3
85°	2.6	0.0	0.0	0.0	0.0	0.0	2.1	5.2	6.8	6.8	6.8
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	3.7	6.3	7.9	7.9	7.9
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°	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3
2.5°	1878.7	1911.8	1958.6	2030.5	2088.9	2180.8	2251.2	2347.3	2444.5	2474.0	2519.6
5°	1382.8	1425.3	1531.5	1628.1	1689.1	1883.4	2006.4	2200.2	2374.1	2457.7	2548.6
7.5°	960.3	1010.8	1091.7	1226.8	1354.9	1513.0	1711.7	1933.4	2188.1	2307.5	2435.6
10°	674.1	737.1	851.1	961.9	1123.2	1273.5	1469.5	1714.3	1995.4	2136.1	2296.9
12.5°	425.5	481.7	632.5	757.1	958.2	1132.7	1313.4	1535.2	1860.9	2005.4	2174.0
15°	243.2	290.6	361.0	520.7	743.9	974.6	1199.9	1457.4	1792.0	1970.1	2152.5
17.5°	181.2	193.9	225.4	315.7	519.1	788.6	1095.4	1433.7	1838.8	2047.9	2255.9
20°	152.4	160.8	175.4	211.2	331.0	607.3	993.5	1437.9	1990.1	2252.8	2450.3
22.5°	136.6	141.9	153.9	177.0	225.9	442.4	874.2	1462.6	2173.5	2504.4	2732.4
25°	119.8	126.7	137.1	157.1	188.0	306.8	756.6	1517.8	2430.3	2823.8	3038.2
27.5°	106.6	112.9	123.5	141.9	165.0	234.3	619.4	1565.1	2701.5	3145.3	3320.9
30°	93.5	99.8	110.3	125.1	146.1	189.6	471.8	1592.9	2964.6	3386.5	3521.5
32.5°	82.5	87.7	97.7	110.8	128.2	160.8	372.0	1564.0	3165.9	3605.6	3695.9
35°	71.5	77.8	86.1	98.2	113.5	137.1	309.4	1464.2	3338.7	3831.0	3863.6
37.5°	59.9	67.3	76.2	87.2	99.3	126.1	248.5	1353.8	3523.6	4112.1	4058.5
40°	50.5	57.3	65.7	77.8	88.8	115.6	191.2	1236.2	3723.3	4375.8	4271.3
42.5°	41.0	48.4	58.3	69.4	87.7	100.8	148.2	1114.3	3902.4	4605.4	4463.5
45°	32.5	38.9	49.4	63.6	87.2	86.7	114.5	994.0	4037.5	4769.3	4606.9
47.5°	25.7	31.0	41.5	62.0	80.4	73.6	91.9	919.4	4179.3	4916.9	4716.7
50°	20.5	25.7	35.7	64.6	70.4	63.1	77.2	931.5	4316.4	4992.0	4761.9
52.5°	17.3	22.6	31.0	51.0	54.1	55.2	67.8	987.2	4493.5	5072.4	4851.7
55°	15.2	19.9	26.2	35.7	42.0	49.4	62.0	1027.6	4730.4	5244.7	5049.9
57.5°	12.1	17.3	23.6	30.4	34.6	43.1	57.3	1030.7	4944.7	5465.9	5313.0
59°	11.0	15.7	22.0	28.9	31.0	38.9	54.1	1004.0	4952.6	5499.0	5433.9
60°	10.0	15.2	21.0	26.8	29.4	36.8	51.5	973.0	4881.2	5446.5	5483.7
62.5°	8.4	13.1	18.4	21.5	25.2	30.4	44.7	860.5	4535.0	5208.5	5391.3
65°	7.3	11.5	15.7	17.8	21.0	26.2	39.4	688.8	4152.5	4885.9	5126.6
67.5°	6.8	10.5	13.6	15.2	18.4	24.1	35.2	486.5	3657.1	4476.6	4728.9
70°	6.3	10.0	12.1	14.2	16.3	20.5	29.9	283.7	2817.0	3759.0	4025.4
72.5°	6.3	9.4	10.5	12.1	14.2	18.4	27.8	153.4	1926.0	2867.5	3211.6
75°	6.3	8.9	9.4	10.5	12.6	16.8	24.7	80.4	1245.1	1992.2	2458.7
77.5°	6.3	8.4	9.4	10.0	12.1	14.7	21.5	50.5	829.6	1395.4	1661.7
80°	6.8	8.4	8.9	10.0	11.5	13.6	17.8	33.6	487.5	839.6	1011.3
82.5°	7.3	8.4	9.4	10.5	12.1	13.1	15.7	21.0	224.9	555.3	628.3
85°	7.9	8.9	10.0	11.0	12.6	13.1	14.7	15.2	36.8	250.6	338.8
87.5°	8.4	9.4	10.5	11.5	13.6	13.6	13.6	13.6	12.6	26.8	68.3
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°	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3
2.5°	2577.4	2636.8	2678.3	2688.8	2658.9	2645.2	2607.4	2548.6	2512.8	2511.2
5°	2716.2	2855.4	2952.1	2968.3	2910.5	2812.8	2696.8	2547.0	2459.3	2433.0
7.5°	2692.5	2936.3	3091.8	3114.4	3017.2	2830.6	2605.8	2364.6	2269.1	2228.6
10°	2595.3	2892.7	3114.9	3150.6	3020.9	2758.1	2472.4	2203.4	2084.7	2053.6
12.5°	2512.3	2812.8	3010.4	3059.7	2961.5	2699.4	2392.6	2099.9	1972.7	1943.9
15°	2476.1	2718.3	2839.0	2864.3	2848.0	2662.5	2384.2	2084.2	1938.6	1907.1
17.5°	2512.3	2637.9	2653.1	2678.8	2715.1	2658.9	2465.1	2169.8	2012.7	1973.8
20°	2607.4	2568.0	2504.9	2516.0	2599.0	2674.1	2609.0	2359.4	2168.2	2126.7
22.5°	2769.2	2550.7	2407.8	2398.3	2503.4	2725.1	2820.2	2616.4	2394.7	2353.6
25°	2967.8	2594.2	2372.0	2351.5	2466.1	2799.7	3049.7	2931.1	2688.8	2626.3
27.5°	3184.3	2684.6	2372.0	2352.1	2463.0	2865.9	3246.3	3209.5	2993.5	2925.3
30°	3302.9	2759.2	2406.2	2383.6	2501.8	2904.2	3351.3	3456.9	3222.6	3138.0
32.5°	3409.1	2862.8	2472.9	2430.3	2583.2	2961.0	3445.3	3667.1	3404.9	3348.2
35°	3506.8	2973.6	2564.9	2515.4	2690.4	3038.7	3549.4	3887.7	3658.7	3573.0
37.5°	3614.5	3102.3	2708.3	2666.2	2869.6	3190.0	3672.8	4177.8	3908.2	3800.5
40°	3731.7	3251.5	2944.2	2926.3	3154.3	3361.3	3828.9	4487.2	4193.0	4070.5
42.5°	3850.9	3423.3	3233.1	3262.5	3476.9	3601.4	3989.1	4725.2	4426.2	4291.2
45°	3959.2	3642.9	3608.7	3754.3	3853.0	3835.7	4107.9	4892.8	4629.5	4500.3
47.5°	4095.8	3962.9	4063.2	4287.5	4290.1	4090.5	4197.7	5029.9	4804.5	4675.2
50°	4248.6	4340.6	4650.1	4878.6	4817.1	4341.1	4302.7	5192.2	4985.2	4881.8
52.5°	4425.7	4763.5	5192.2	5446.0	5302.5	4614.3	4477.7	5367.7	5272.1	5172.7
55°	4631.6	5052.0	5732.8	5935.1	5790.6	4953.7	4743.6	5605.7	5596.2	5528.4
57.5°	4864.3	5356.7	6045.9	6319.6	6190.9	5352.0	5115.0	5830.0	5794.2	5756.5
59°	5048.3	5513.2	6184.1	6467.8	6390.0	5630.9	5364.5	5969.8	5840.0	5783.2
60°	5159.6	5619.3	6235.1	6487.7	6469.9	5796.9	5522.7	6038.0	5839.5	5760.7
62.5°	5490.0	5804.8	6215.6	6399.0	6468.8	6115.2	5986.6	6113.1	5731.2	5615.6
65°	5607.8	5743.3	5893.6	5870.9	5930.9	6099.0	6282.9	6030.7	5500.1	5335.6
67.5°	5378.7	5069.3	5122.4	4971.6	4942.1	5422.3	6162.6	5627.2	5047.8	4846.5
70°	4533.9	3883.5	3856.7	3926.0	3735.9	4389.9	5533.7	4850.2	4301.2	4073.1
72.5°	3568.8	2744.5	2518.6	2774.0	2768.2	3349.2	4597.0	3441.7	2905.8	2886.4
75°	2806.5	1910.8	1677.0	1718.5	1798.3	2424.6	3661.3	2185.5	1789.4	1630.7
77.5°	1884.0	1353.8	1263.0	1212.0	1298.2	1556.7	2316.4	1185.2	1003.5	950.4
80°	1085.9	983.5	1116.9	1014.0	1060.2	980.9	1152.2	543.8	451.3	488.6
82.5°	706.6	560.0	596.9	443.4	606.3	611.5	369.9	160.8	136.1	144.5
85°	441.9	262.6	147.6	105.0	209.1	384.6	115.6	10.0	11.5	10.0
87.5°	114.5	43.6	18.4	27.3	33.6	29.9	26.8	1.6	0.5	1.0
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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