

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: P532294

Luminaire Tested: **GALN-SA7C-827-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-827-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26809 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

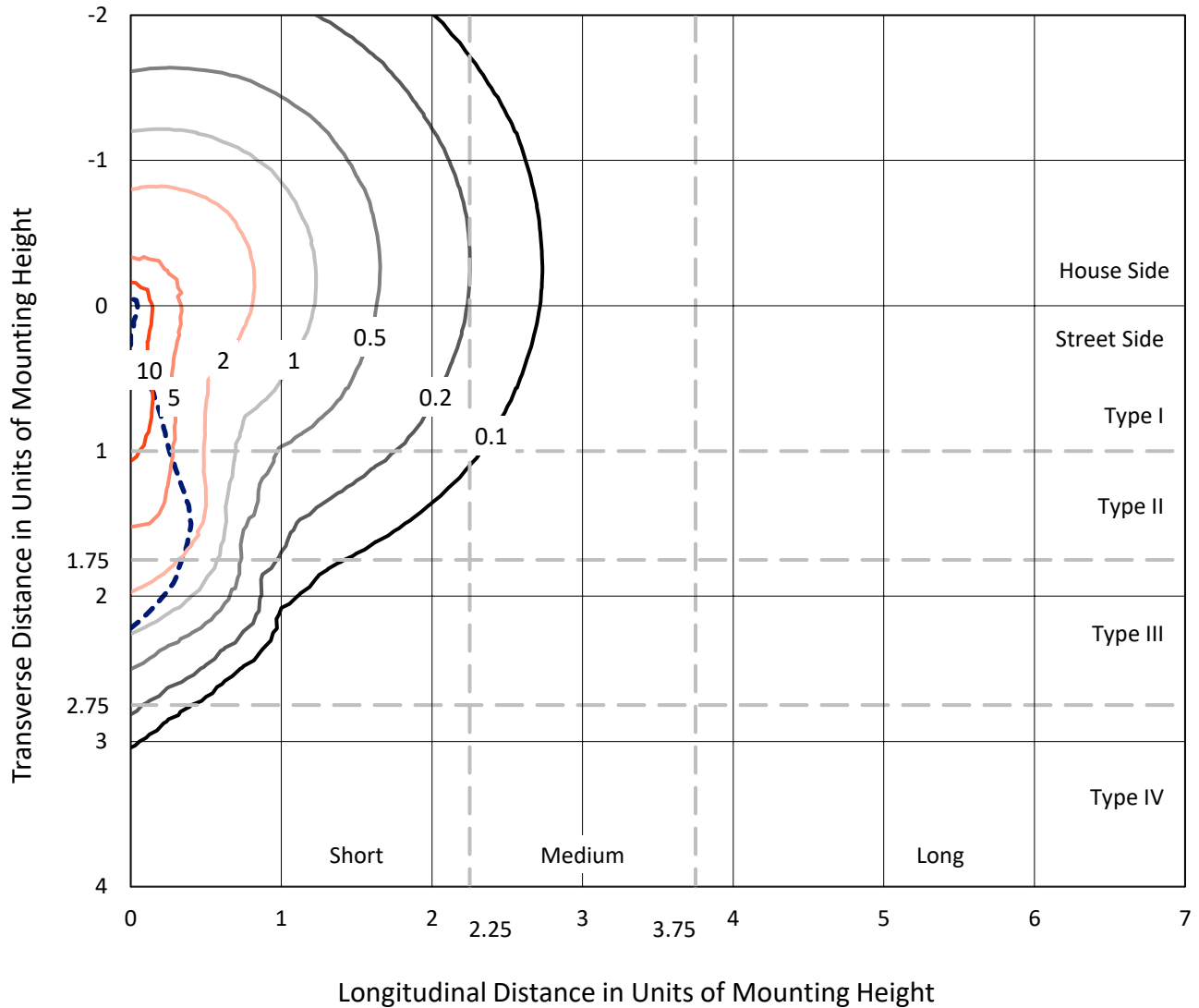
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

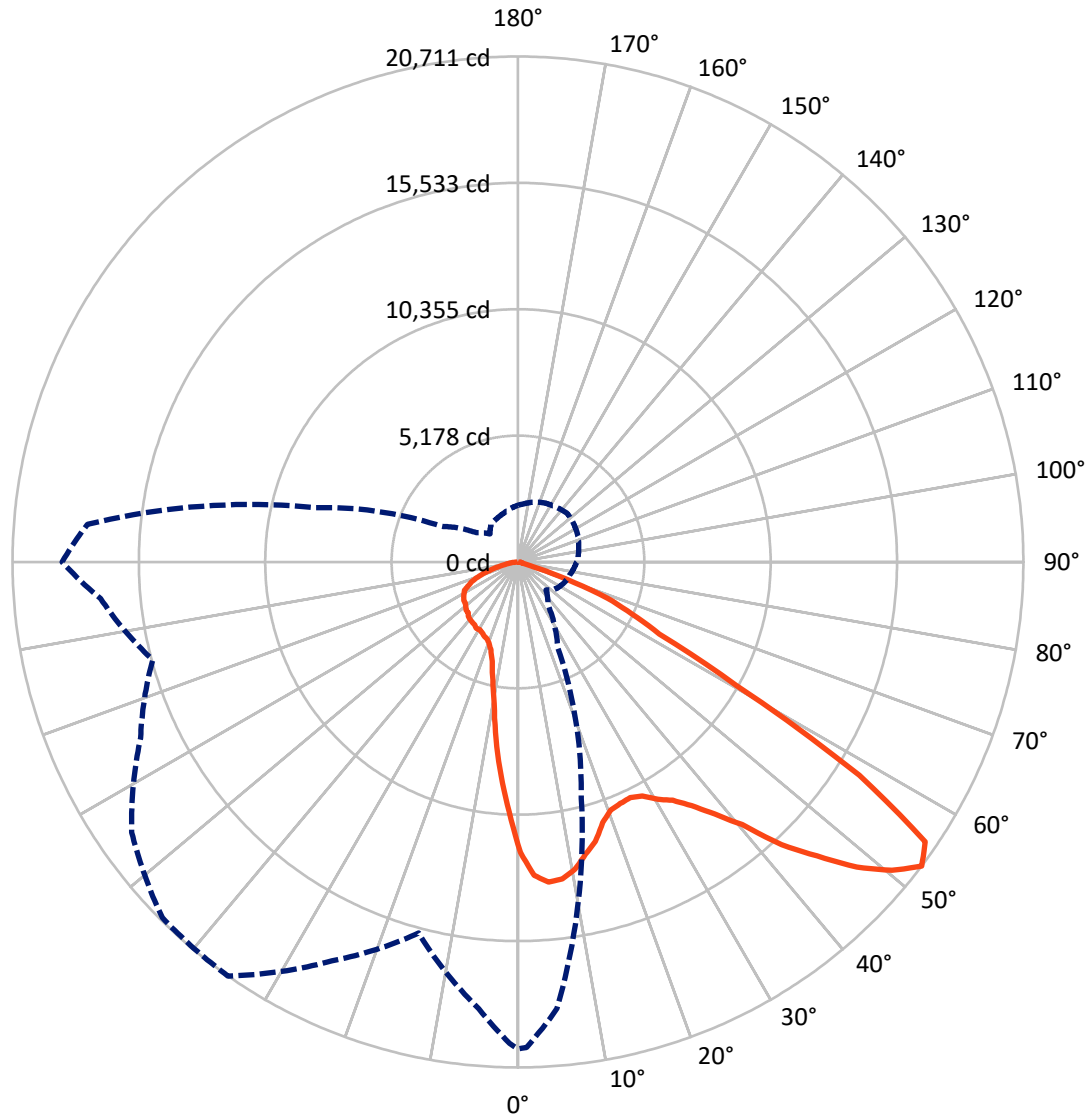
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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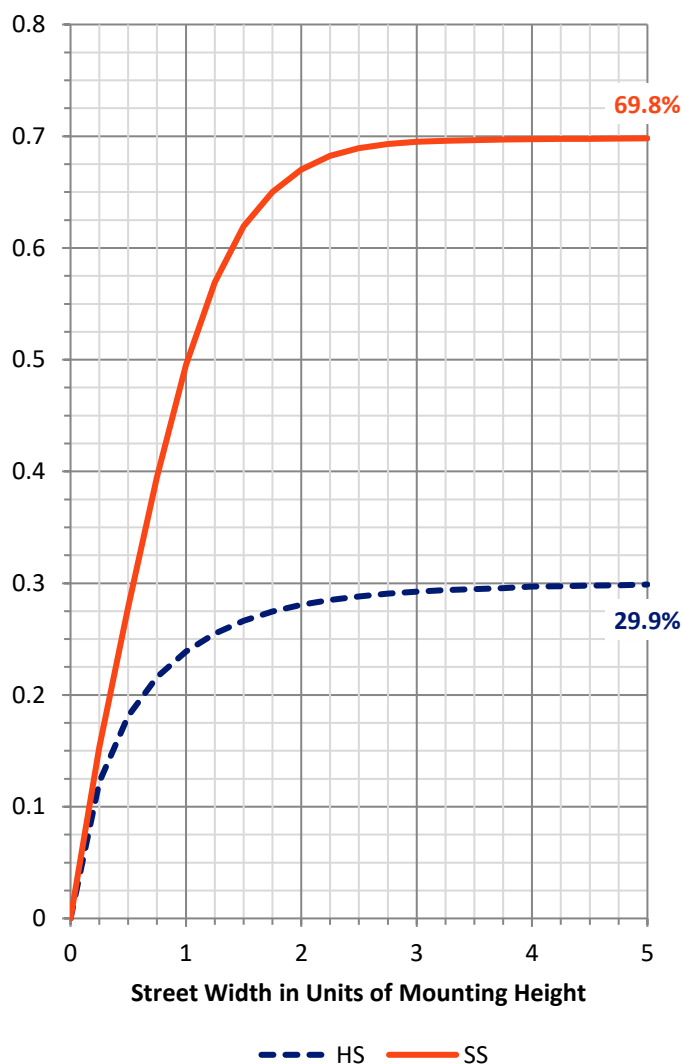
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8081.8	0.0	8081.8
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	18727.2	0.0	18727.2
	% Fixture	69.9	0.0	69.9
Total	Lumens	26809.0	0.0	26809.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	907.7	3.4
10°-20°	1967.8	7.3
20°-30°	2973.2	11.1
30°-40°	4296.4	16.0
40°-50°	5717.7	21.3
50°-60°	6395.4	23.9
60°-70°	3604.4	13.4
70°-80°	803.5	3.0
80°-90°	143.1	0.5
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°	26809.0	100.0
0°-180°	26809.0	100.0

Coefficient of Utilization



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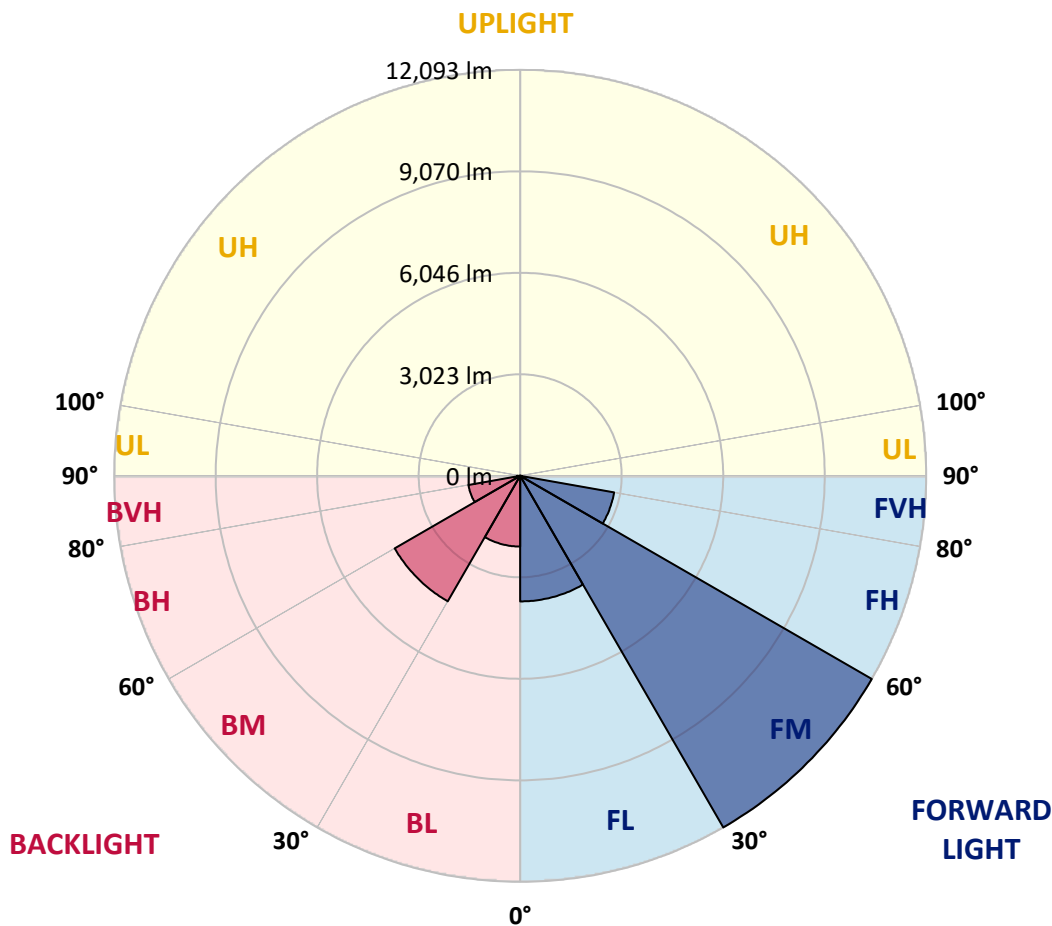
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3741.1	14.0			
FM (30°-60°)	12092.9	45.1			
FH (60°-80°)	2841.4	10.6			G2/5000
FVH (80°-90°)	51.8	0.2			G1/100
BL (0°-30°)	2107.5	7.9	B3/2500		
BM (30°-60°)	4316.5	16.1	B3/5000		
BH (60°-80°)	1566.5	5.8	B3/2500		G3/2500
BVH (80°-90°)	91.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11898.0	11898.0	11898.0	11898.0	11898.0	11898.0	11898.0	11898.0	11898.0	11898.0	11898.0
2.5°	12096.2	12290.5	12080.6	11707.6	11443.4	11202.5	10949.9	10899.4	10569.1	10510.8	10269.9
5°	11408.4	11365.7	11109.2	10619.6	10079.5	9589.9	9228.5	8878.8	8641.8	8365.9	8346.5
7.5°	10573.0	10324.3	10176.6	9434.5	8766.1	7996.8	7666.5	7134.1	6967.1	6718.4	6590.1
10°	9826.9	9644.3	9298.5	8556.3	7623.7	7114.7	6761.1	6473.6	6279.3	6022.8	5700.3
12.5°	9457.8	9384.0	8995.4	7845.2	7153.6	6609.6	6360.9	6081.1	5750.8	5338.9	5179.6
15°	9523.8	9275.2	8979.8	7709.2	6753.3	6228.8	5832.4	5482.7	5059.2	4666.7	4437.5
17.5°	10017.3	9826.9	9236.3	7794.7	6601.8	5844.1	5125.2	4608.4	4227.6	3874.0	3714.7
20°	10988.7	10712.9	10048.4	7903.5	6275.4	5307.9	4484.1	3846.8	3438.8	3252.3	3197.9
22.5°	12065.1	11901.9	10841.1	8148.3	6015.1	4810.5	3804.1	3166.8	3015.3	2964.8	3065.8
25°	13374.6	12951.0	12072.9	8548.5	5813.0	4386.9	3229.0	2875.4	2797.7	2848.2	2964.8
27.5°	14369.3	14256.6	12935.5	8925.4	5537.1	3877.9	2906.5	2673.4	2696.7	2747.2	2856.0
30°	15550.6	14979.4	13770.9	9185.8	5288.4	3528.2	2681.1	2619.0	2642.3	2727.8	2782.2
32.5°	16261.6	16047.9	14295.5	9578.2	5000.9	3225.1	2506.3	2448.0	2483.0	2611.2	2739.4
35°	17167.0	16743.5	14944.4	9679.3	4798.8	3104.7	2381.9	2339.2	2420.8	2510.2	2653.9
37.5°	18223.9	17932.5	15842.0	9609.3	4690.0	2980.3	2277.0	2257.6	2315.9	2440.2	2607.3
40°	18849.5	18760.1	16312.1	9652.1	4519.1	2871.5	2156.6	2179.9	2300.3	2397.5	2560.7
42.5°	19451.8	18868.9	17007.7	9636.5	4410.3	2723.9	2168.2	2141.0	2234.3	2347.0	2502.4
45°	19583.9	19004.9	17170.9	9527.7	4278.2	2580.1	2078.8	2090.5	2203.2	2343.1	2444.1
47.5°	19498.4	19071.0	17474.0	9496.6	4153.8	2479.1	1946.7	2086.6	2152.7	2265.4	2409.1
50°	19440.1	19416.8	17730.4	9644.3	3986.7	2319.8	1787.4	2036.1	2102.2	2214.8	2370.3
52.5°	19953.0	19902.5	18371.6	10032.9	3854.6	2148.8	1624.2	1907.9	2067.2	2176.0	2327.5
55°	20263.9	20042.4	19471.2	10510.8	3633.1	1923.4	1511.5	1748.6	1981.7	2078.8	2234.3
57.5°	18227.8	18076.3	17613.9	9811.4	3260.1	1628.1	1371.7	1585.4	1865.1	2016.7	2176.0
60°	15165.9	14928.8	13743.7	8338.7	2405.2	1266.7	1286.2	1457.1	1834.0	1892.3	2078.8
62.5°	14299.4	13712.6	12100.1	6710.6	1845.7	1088.0	1154.1	1340.6	1670.8	1768.0	1954.5
65°	11346.2	10911.0	8657.3	4845.5	1235.7	944.2	1053.0	1208.5	1441.6	1632.0	1803.0
67.5°	7103.1	6687.3	4620.1	2292.6	862.6	808.2	940.3	1103.5	1293.9	1464.9	1655.3
70°	3710.8	3256.2	2133.2	827.7	594.5	660.6	784.9	940.3	1126.9	1266.7	1414.4
72.5°	1383.3	1123.0	695.5	357.5	411.9	505.1	637.3	749.9	882.1	1053.0	1134.6
75°	213.7	182.6	178.7	217.6	279.8	365.3	454.6	567.3	683.9	792.7	847.1
77.5°	101.0	97.1	108.8	143.8	186.5	260.3	330.3	439.1	532.3	602.3	633.4
80°	66.1	62.2	69.9	97.1	139.9	194.3	264.2	338.1	423.5	481.8	474.1
82.5°	38.9	42.7	42.7	66.1	97.1	139.9	190.4	256.5	314.7	365.3	334.2
85°	23.3	19.4	19.4	38.9	66.1	112.7	159.3	108.8	112.7	112.7	128.2
87.5°	7.8	7.8	7.8	3.9	7.8	7.8	11.7	19.4	23.3	27.2	35.0
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°	11898.0	11898.0	11898.0	11898.0	11898.0	11898.0	11898.0	11898.0	11898.0	11898.0	11898.0
2.5°	10262.1	10382.6	10339.8	10188.3	10304.9	10324.3	10246.6	10514.7	10565.2	10483.6	10506.9
5°	8319.3	8350.4	8420.3	8568.0	8672.9	8797.2	8797.2	8805.0	8700.1	8964.3	8886.6
7.5°	6481.3	6500.8	6582.4	6897.1	6986.5	7223.5	7324.5	7254.6	7044.8	6955.4	7029.2
10°	5595.4	5482.7	5455.5	5494.4	5696.4	5797.5	5882.9	5859.6	5824.7	5754.7	5677.0
12.5°	5004.8	4923.2	4857.1	4763.9	4775.5	4872.7	4938.7	4884.3	4899.9	4915.4	4938.7
15°	4363.6	4305.4	4270.4	4130.5	4115.0	4181.0	4204.3	4235.4	4293.7	4297.6	4270.4
17.5°	3683.6	3633.1	3710.8	3788.6	3734.2	3738.0	3780.8	3808.0	3792.4	3722.5	3687.5
20°	3217.4	3271.8	3349.5	3423.3	3481.6	3516.6	3532.1	3489.4	3438.8	3295.1	3291.2
22.5°	3081.4	3151.3	3217.4	3330.0	3384.4	3473.8	3392.2	3295.1	3225.1	3155.2	3073.6
25°	2980.3	3038.6	3170.7	3213.5	3318.4	3392.2	3333.9	3236.8	3116.3	3015.3	2953.1
27.5°	2906.5	2972.6	3058.0	3174.6	3256.2	3299.0	3240.7	3201.8	3077.5	2957.0	2867.6
30°	2859.9	2929.8	3085.2	3182.4	3252.3	3287.3	3186.3	3139.6	3050.3	2949.2	2871.5
32.5°	2828.8	2891.0	3023.1	3147.4	3194.0	3194.0	3209.6	3155.2	3030.8	2859.9	2793.8
35°	2727.8	2813.2	2922.0	3065.8	3151.3	3201.8	3124.1	3061.9	2980.3	2805.5	2685.0
37.5°	2669.5	2727.8	2867.6	3003.6	3077.5	3131.9	3100.8	2992.0	2883.2	2739.4	2642.3
40°	2607.3	2700.6	2824.9	2953.1	3034.7	3089.1	3065.8	2937.6	2805.5	2669.5	2603.4
42.5°	2564.6	2626.7	2755.0	2898.7	2995.9	3100.8	3030.8	2871.5	2778.3	2591.8	2517.9
45°	2529.6	2630.6	2766.6	2824.9	2925.9	3034.7	2910.4	2813.2	2704.4	2568.4	2506.3
47.5°	2486.8	2580.1	2669.5	2824.9	2871.5	2922.0	2898.7	2743.3	2650.0	2502.4	2459.6
50°	2471.3	2506.3	2669.5	2755.0	2821.0	2871.5	2809.4	2692.8	2603.4	2451.9	2358.6
52.5°	2409.1	2475.2	2580.1	2692.8	2774.4	2836.6	2735.5	2661.7	2541.2	2381.9	2323.6
55°	2331.4	2370.3	2556.8	2673.4	2716.1	2758.8	2720.0	2599.5	2475.2	2312.0	2253.7
57.5°	2230.4	2319.8	2471.3	2634.5	2688.9	2712.2	2650.0	2552.9	2397.5	2253.7	2160.4
60°	2125.5	2218.7	2385.8	2517.9	2572.3	2657.8	2564.6	2506.3	2327.5	2168.2	2067.2
62.5°	2020.6	2125.5	2249.8	2416.9	2463.5	2498.5	2475.2	2393.6	2249.8	2071.1	1946.7
65°	1896.2	1973.9	2129.4	2214.8	2245.9	2327.5	2245.9	2214.8	2086.6	1915.6	1810.7
67.5°	1709.7	1775.8	1911.8	1993.4	2016.7	2051.6	2047.8	2012.8	1869.0	1752.4	1659.2
70°	1496.0	1554.3	1639.8	1736.9	1748.6	1791.3	1752.4	1744.7	1651.4	1492.1	1441.6
72.5°	1200.7	1255.1	1367.8	1410.5	1414.4	1429.9	1410.5	1383.3	1360.0	1192.9	1142.4
75°	920.9	952.0	1006.4	1045.3	1045.3	1064.7	1053.0	1025.8	963.7	858.7	808.2
77.5°	641.1	672.2	742.2	765.5	761.6	769.4	734.4	707.2	613.9	559.5	516.8
80°	466.3	485.7	520.7	536.2	540.1	551.8	509.0	485.7	431.3	369.1	349.7
82.5°	338.1	349.7	353.6	373.0	373.0	353.6	341.9	318.6	279.8	240.9	225.4
85°	139.9	143.8	147.7	171.0	174.9	209.8	194.3	182.6	159.3	136.0	124.3
87.5°	35.0	38.9	50.5	42.7	50.5	50.5	54.4	62.2	62.2	50.5	50.5
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°	11898.0	11898.0	11898.0	11898.0	11898.0	11898.0	11898.0	11898.0	11898.0	11898.0	11898.0
2.5°	10596.3	10627.4	11023.7	11074.2	11268.5	11466.7	11866.9	12154.5	12387.6	12539.1	12581.9
5°	8968.2	9166.4	9349.0	9644.3	9912.4	10293.2	10732.3	11276.3	11960.2	12309.9	12449.8
7.5°	7021.5	7254.6	7518.8	7806.4	8198.8	8882.7	9469.4	10098.9	10973.2	11334.6	11882.5
10°	5731.4	5991.7	6341.5	6562.9	7037.0	7689.8	8373.7	9100.3	9935.7	10456.4	11089.8
12.5°	5066.9	5280.7	5603.2	6069.5	6423.1	6846.6	7355.6	8272.6	9469.4	9962.9	10398.1
15°	4332.6	4569.6	4942.6	5459.4	5882.9	6388.1	6959.3	7957.9	9232.4	9994.0	10363.1
17.5°	3726.4	3897.4	4289.8	4736.7	5222.4	5774.1	6594.0	7942.4	9481.1	10456.4	11058.7
20°	3306.7	3330.0	3543.8	3924.6	4585.1	5304.0	6368.7	7864.6	10277.7	11253.0	12014.6
22.5°	3042.5	3019.2	3023.1	3345.6	3808.0	4841.6	6015.1	8128.9	11183.0	12519.7	13032.6
25°	2910.4	2848.2	2809.4	2879.3	3299.0	4293.7	5746.9	8478.6	12158.3	13565.0	14194.4
27.5°	2840.4	2731.6	2653.9	2665.6	2972.6	4017.8	5579.9	8630.1	13125.9	15022.1	15243.6
30°	2813.2	2677.2	2564.6	2525.7	2727.8	3633.1	5222.4	8890.5	13992.4	15822.6	16013.0
32.5°	2716.1	2549.0	2440.2	2405.2	2486.8	3295.1	4965.9	9077.0	14757.9	16692.9	16626.9
35°	2603.4	2463.5	2327.5	2261.5	2319.8	3077.5	4760.0	8987.6	15659.4	17369.1	17334.1
37.5°	2591.8	2409.1	2296.4	2187.6	2183.8	2809.4	4480.2	9073.1	16234.4	18581.4	18103.5
40°	2490.7	2374.2	2226.5	2137.1	2086.6	2673.4	4208.2	8871.0	17077.6	19071.0	18600.8
42.5°	2494.6	2319.8	2191.5	2086.6	2036.1	2475.2	4021.7	8816.6	17372.9	19867.6	18834.0
45°	2432.4	2261.5	2152.7	2028.3	2001.1	2323.6	3843.0	8564.1	17893.6	19906.4	18542.5
47.5°	2370.3	2218.7	2102.2	1954.5	1892.3	2269.2	3703.1	8354.2	17621.6	19541.2	18138.4
50°	2327.5	2152.7	2043.9	1939.0	1764.1	2176.0	3520.4	8303.7	17240.8	19047.7	17388.5
52.5°	2253.7	2098.3	1985.6	1904.0	1624.2	2090.5	3450.5	8599.0	17707.1	18678.5	17170.9
55°	2183.8	2024.4	1880.7	1721.4	1507.6	1865.1	3256.2	8874.9	18387.1	19529.5	18157.9
57.5°	2109.9	1958.4	1803.0	1612.6	1395.0	1632.0	3054.2	8925.4	17112.6	18049.1	17236.9
60°	2012.8	1818.5	1701.9	1453.3	1274.5	1352.2	2420.8	7868.5	13273.5	15072.6	15099.8
62.5°	1904.0	1694.2	1593.1	1301.7	1150.2	1165.7	1973.9	6613.5	10767.3	12477.0	13219.1
65°	1760.2	1558.2	1437.7	1204.6	1060.8	1010.3	1445.5	4845.5	8179.4	10122.2	10965.4
67.5°	1573.7	1383.3	1231.8	1049.1	948.1	866.5	987.0	2727.8	4829.9	6796.1	7052.5
70°	1375.5	1212.3	1053.0	901.5	788.8	730.5	722.7	1208.5	2308.1	3656.4	4161.6
72.5°	1084.1	967.5	839.3	726.6	652.8	567.3	516.8	501.3	781.0	1488.2	2055.5
75°	777.1	680.0	606.2	532.3	477.9	431.3	392.5	357.5	326.4	373.0	512.9
77.5°	489.6	454.6	396.3	376.9	345.8	334.2	318.6	299.2	275.9	260.3	260.3
80°	330.3	307.0	287.5	283.7	272.0	268.1	272.0	252.6	229.3	209.8	217.6
82.5°	221.5	217.6	213.7	209.8	213.7	217.6	225.4	221.5	202.1	190.4	194.3
85°	132.1	139.9	147.7	155.4	171.0	151.5	124.3	104.9	93.3	85.5	81.6
87.5°	50.5	69.9	62.2	58.3	62.2	58.3	54.4	50.5	42.7	38.9	38.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11898.0	11898.0	11898.0	11898.0	11898.0	11898.0	11898.0	11898.0	11898.0	11898.0
2.5°	12865.5	12943.3	13009.3	12993.8	12857.8	12675.1	12601.3	12224.4	12146.7	12096.2
5°	13040.4	13491.1	13588.3	13530.0	13176.4	12729.5	12294.3	11742.6	11420.1	11408.4
7.5°	12717.9	13273.5	13448.4	13580.5	13110.3	12333.2	11587.1	10759.5	10557.4	10573.0
10°	11898.0	12783.9	13215.2	13351.2	12811.1	12138.9	11105.3	10266.0	9834.7	9826.9
12.5°	11443.4	12138.9	12259.4	12449.8	12290.5	11610.5	10825.5	9885.2	9465.6	9457.8
15°	11039.3	11497.8	11532.7	11800.9	11886.3	11427.8	10899.4	9896.9	9558.8	9523.8
17.5°	11392.9	11074.2	10942.1	10977.1	11229.7	11396.7	11326.8	10557.4	10211.6	10017.3
20°	11629.9	10918.8	10518.6	10557.4	10856.6	11466.7	11964.1	11513.3	10965.4	10988.7
22.5°	12263.3	10942.1	10316.5	10273.8	10747.8	11831.9	12682.9	12721.8	12193.3	12065.1
25°	13211.4	11210.2	10254.3	10242.7	10697.3	12224.4	13522.2	14151.7	13611.6	13374.6
27.5°	13973.0	11629.9	10448.6	10487.5	10856.6	12543.0	14237.2	15072.6	14660.7	14369.3
30°	14641.3	12065.1	10720.6	10541.9	11284.1	12710.1	14544.2	16121.7	15791.5	15550.6
32.5°	14917.2	12682.9	11151.9	10856.6	11637.7	12912.2	15181.4	17139.8	16856.1	16261.6
35°	15383.5	13028.7	11385.1	11361.8	12255.5	13397.9	15480.6	17812.0	17695.5	17167.0
37.5°	15756.5	13378.4	12212.7	11956.3	13102.6	14213.9	15962.4	18740.7	18472.6	18223.9
40°	16044.0	14004.0	12986.0	13324.0	14143.9	14956.0	16405.4	18799.0	19572.2	18849.5
42.5°	15779.8	14563.6	14256.6	15064.8	15842.0	15803.1	16455.9	19249.7	19828.7	19451.8
45°	15713.8	15511.7	16265.5	16999.9	17178.7	16506.4	16094.5	18752.4	19751.0	19583.9
47.5°	15554.4	16444.3	17757.6	18954.4	18682.4	16976.6	15663.2	18663.0	19797.6	19498.4
50°	15500.0	16646.3	18861.2	20026.9	19863.7	17384.6	15461.2	18087.9	19467.3	19440.1
52.5°	15496.2	17062.1	19319.7	20609.7	20710.8	18029.6	15737.1	18379.3	19723.8	19953.0
55°	15671.0	16930.0	19261.4	20287.2	20248.4	17742.1	15768.2	18573.6	20038.5	20263.9
57.5°	14781.2	15165.9	15896.4	16708.5	16498.7	14695.7	14081.8	17170.9	18391.0	18227.8
60°	12764.5	11559.9	10736.2	10697.3	10289.3	9725.9	11525.0	15325.2	15325.2	15165.9
62.5°	11179.1	7588.8	6520.2	6217.1	6508.5	7157.5	11117.0	14905.5	14482.0	14299.4
65°	9776.4	5793.6	4713.3	4627.9	5133.0	6112.2	10052.3	12698.5	11952.4	11346.2
67.5°	6290.9	4243.2	3504.9	3353.4	3963.4	4488.0	6691.2	7810.2	7340.1	7103.1
70°	4056.7	2762.7	1950.6	1830.2	2067.2	2766.6	4274.3	4554.0	3870.2	3710.8
72.5°	1919.5	1192.9	683.9	563.4	633.4	1056.9	1690.3	1818.5	1511.5	1383.3
75°	610.1	439.1	279.8	240.9	229.3	272.0	388.6	299.2	217.6	213.7
77.5°	272.0	260.3	221.5	186.5	163.2	136.0	112.7	93.3	97.1	101.0
80°	225.4	205.9	182.6	163.2	136.0	104.9	81.6	62.2	62.2	66.1
82.5°	198.2	178.7	159.3	136.0	116.6	85.5	62.2	42.7	38.9	38.9
85°	85.5	101.0	108.8	116.6	93.3	69.9	42.7	27.2	23.3	23.3
87.5°	35.0	31.1	27.2	23.3	19.4	19.4	15.5	11.7	7.8	7.8
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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