

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: P648492

Luminaire Tested: **GALN-SA6B-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648492
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-SA6B-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 800mA 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: 22773.6 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

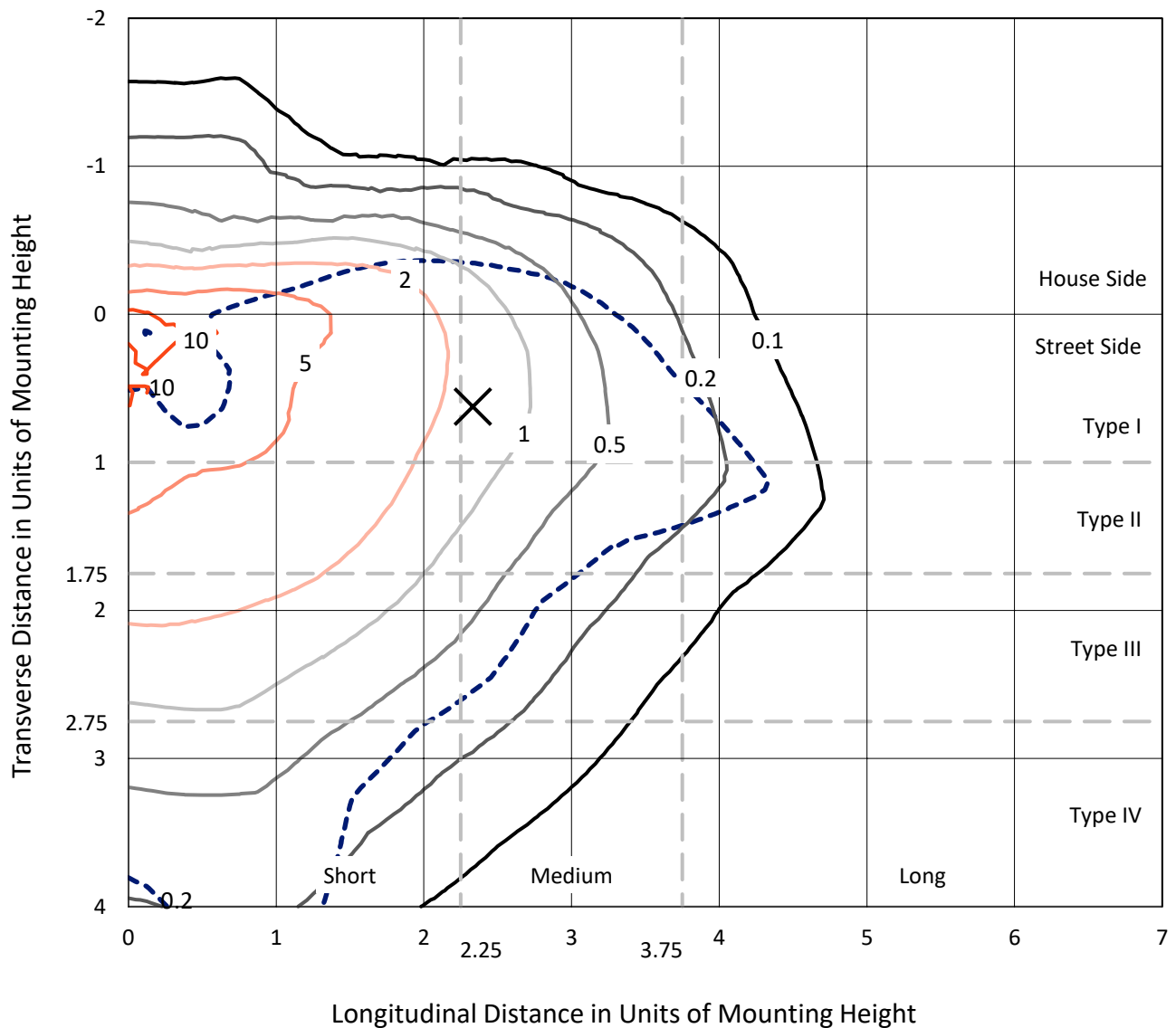
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

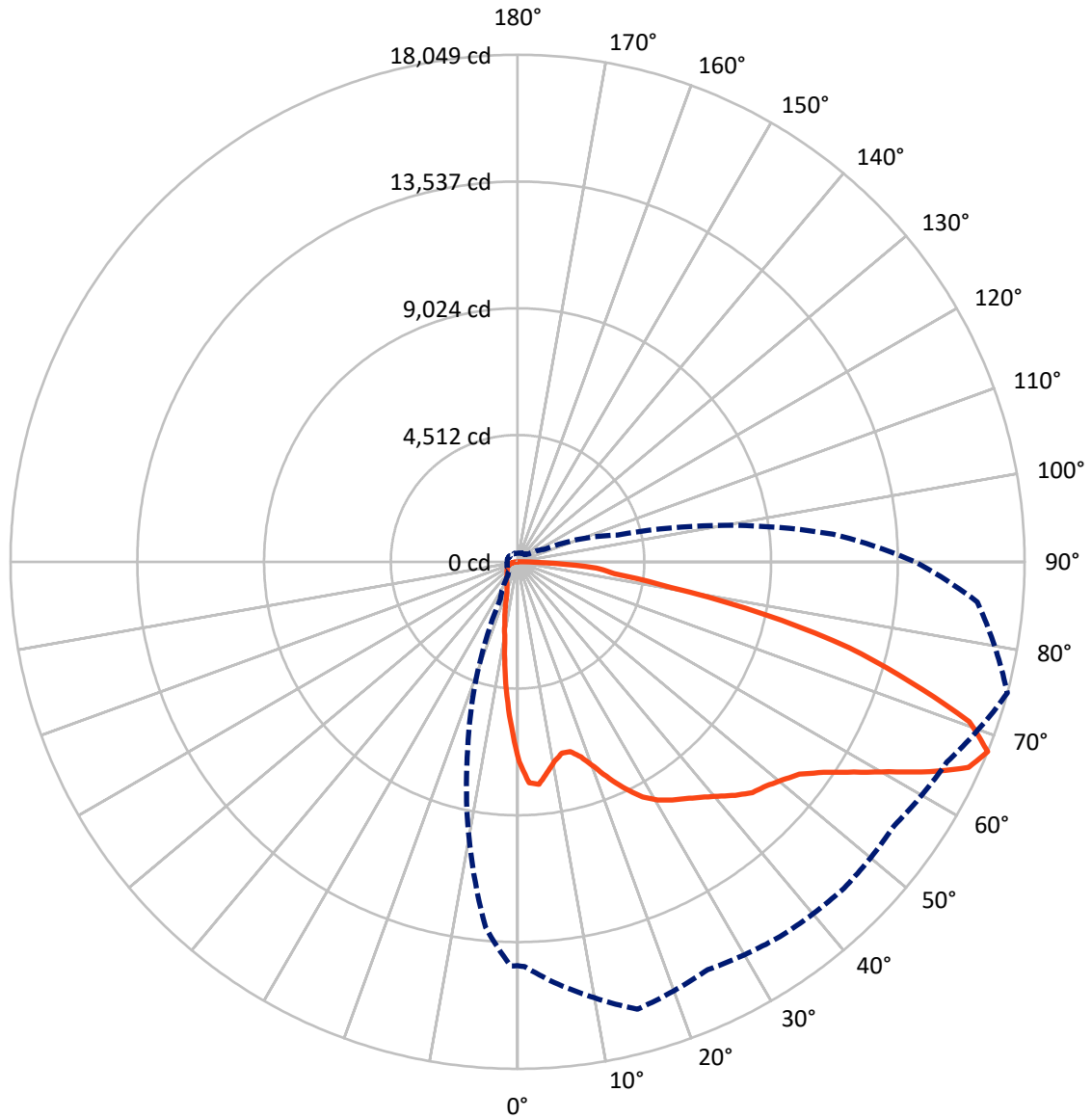
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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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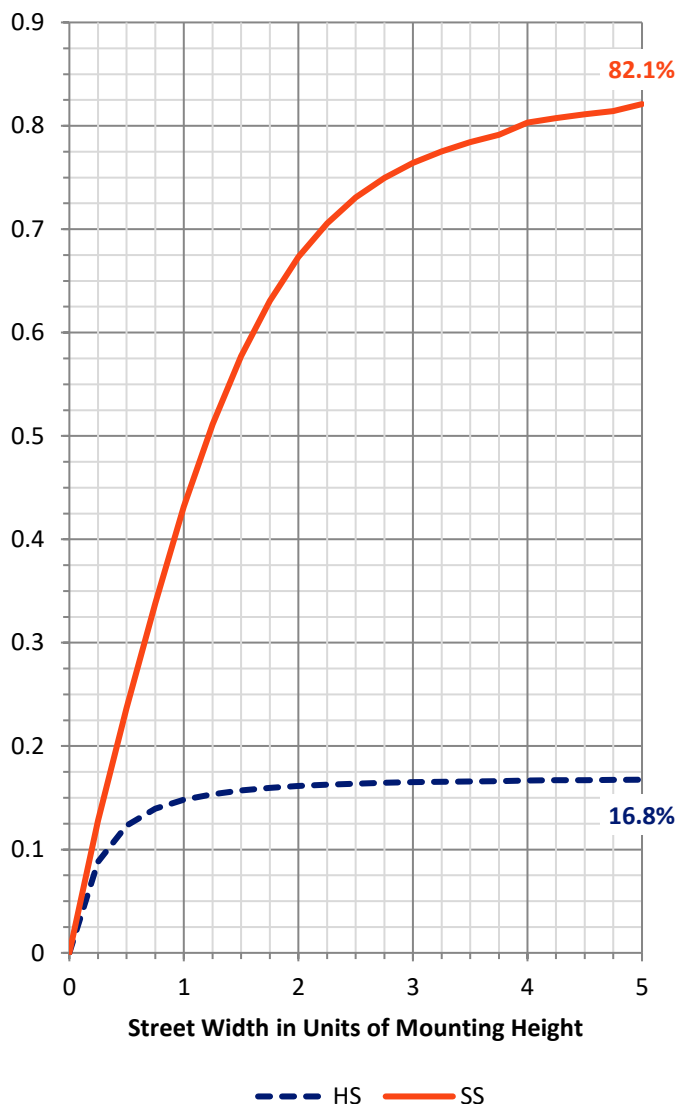
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3849.2	0.0	3849.2
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	18924.3	0.0	18924.3
	% Fixture	83.1	0.0	83.1
Total	Lumens	22773.6	0.0	22773.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.7	2.4
10°-20°	1125.5	4.9
20°-30°	1619.6	7.1
30°-40°	2332.6	10.2
40°-50°	3276.7	14.4
50°-60°	4569.8	20.1
60°-70°	5433.2	23.9
70°-80°	3199.9	14.1
80°-90°	676.7	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°	22773.6	100.0
0°-180°	22773.6	100.0

Coefficient of Utilization

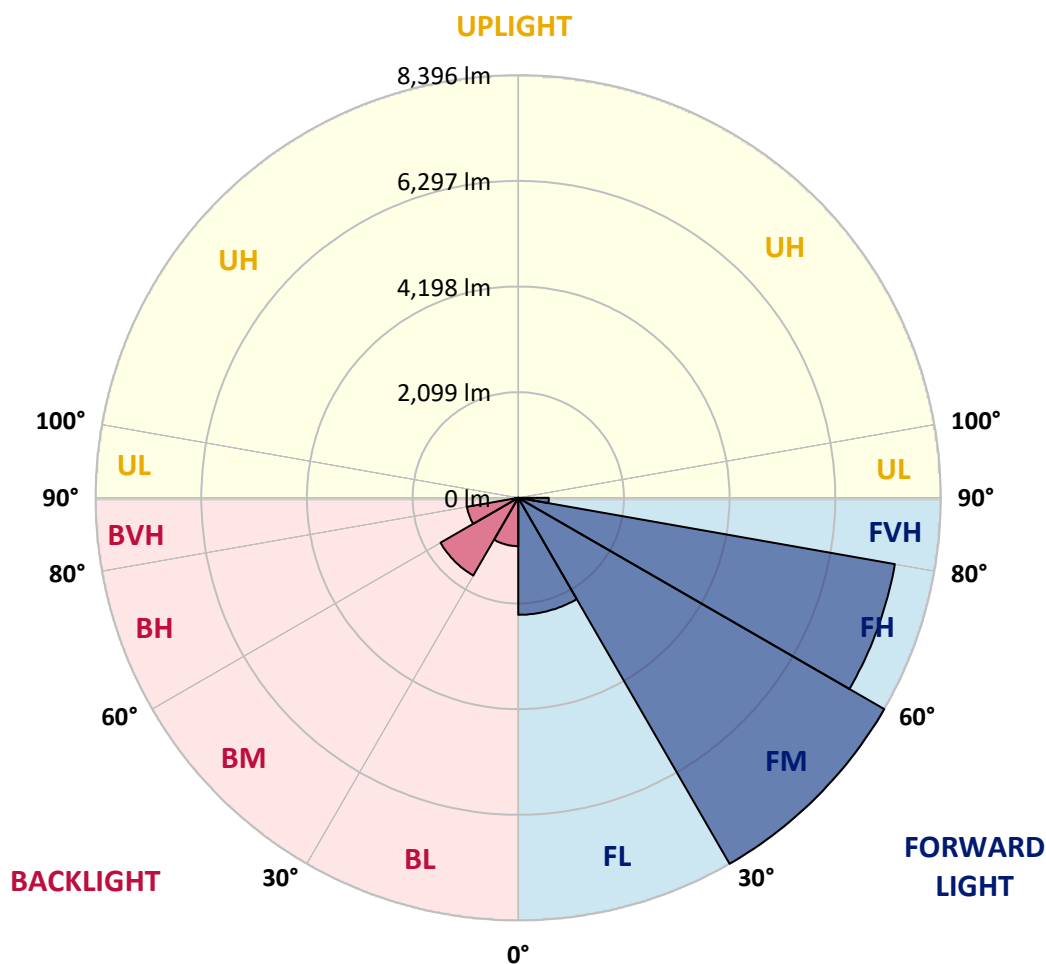


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2324.6	10.2			
FM (30°-60°)	8395.8	36.9			
FH (60°-80°)	7597.3	33.4			G4/12000
FVH (80°-90°)	606.7	2.7			G4/750
BL (0°-30°)	960.1	4.2	B2/1000		
BM (30°-60°)	1783.4	7.8	B2/2500		
BH (60°-80°)	1035.8	4.5	B3/2500		G3/2500
BVH (80°-90°)	70.0	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-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7115.0	7115.0	7115.0	7115.0	7115.0	7115.0	7115.0	7115.0	7115.0	7115.0	7115.0
2.5°	7671.4	7681.6	7747.3	7938.7	8070.1	8118.3	8151.9	8089.1	8027.7	7878.8	7653.9
5°	7648.0	7707.9	7878.8	8308.1	8646.9	8793.0	8836.8	8648.4	8337.3	7954.7	7494.7
7.5°	7201.2	7281.5	7544.4	8264.3	8861.6	9203.4	9158.0	8817.8	8257.0	7575.1	6932.4
10°	6671.0	6760.1	7077.0	7947.4	8717.1	9187.3	9187.3	8772.5	8027.7	7217.2	6476.8
12.5°	6250.5	6343.9	6706.1	7621.7	8416.2	8861.6	8936.1	8579.8	7862.7	6990.9	6177.4
15°	6111.7	6202.2	6592.2	7424.6	8097.9	8369.5	8394.3	8277.5	7782.4	7006.9	6164.3
17.5°	6284.0	6400.9	6795.2	7483.1	7805.7	7821.9	7840.8	7932.8	7791.2	7300.5	6430.1
20°	6782.0	6907.6	7319.5	7671.4	7550.2	7383.7	7393.9	7630.5	7894.8	7785.3	7065.3
22.5°	7500.5	7610.1	8032.1	8002.9	7442.1	7098.9	7027.3	7357.5	8048.2	8389.9	7741.5
25°	8276.0	8404.5	8889.4	8495.1	7472.8	6929.6	6884.3	7196.8	8207.3	8955.1	8522.8
27.5°	9163.9	9289.5	9672.2	8991.6	7633.5	6916.4	6862.4	7182.1	8350.5	9477.9	9269.1
30°	9824.0	9939.4	10199.4	9409.2	7830.5	7004.0	6936.8	7297.6	8473.2	9835.7	9996.3
32.5°	10342.4	10462.2	10603.9	9669.2	8090.5	7163.2	7039.1	7507.9	8633.8	10108.8	10535.2
35°	10882.8	11024.5	11014.2	9899.9	8332.9	7347.2	7226.0	7811.6	8886.4	10346.8	11218.7
37.5°	11567.7	11624.7	11551.7	10107.4	8623.6	7678.7	7611.5	8262.8	9245.7	10634.5	12017.5
40°	12262.9	12376.8	12001.4	10358.5	8977.0	8302.3	8295.0	8930.3	9672.2	10971.9	12791.5
42.5°	12858.7	12955.0	12422.1	10577.5	9404.8	9063.1	9118.7	9825.5	10231.5	11363.3	13413.7
45°	13307.0	13393.2	12810.5	10789.3	9968.6	9942.3	10269.4	10785.0	10936.8	11715.2	13778.8
47.5°	13688.2	13771.4	13080.6	11110.6	10665.2	10992.3	11561.9	11785.3	11539.9	11916.7	14187.6
50°	14009.5	14034.3	13266.1	11493.3	11529.8	12278.9	12830.9	12975.6	12135.8	12205.9	14542.5
52.5°	14343.9	14311.8	13586.0	11975.1	12464.4	13499.8	13901.4	14051.8	12706.8	12562.2	15059.5
55°	15093.1	15123.7	14303.0	12582.7	13409.3	14698.8	15227.5	15082.9	13339.2	13218.0	15716.7
57.5°	15998.5	15972.3	15312.1	13533.4	14371.7	15814.5	16208.8	15976.6	14183.3	14119.0	16382.6
60°	16350.4	16385.5	16156.3	14555.7	15320.9	16791.5	17194.6	16833.9	15195.3	15166.1	16885.0
62.5°	15997.1	16194.2	16349.0	15465.5	16130.0	17510.0	17910.2	17498.3	16251.2	16462.9	17237.0
65°	15293.2	15335.5	15862.7	16236.6	16519.9	17628.3	17837.1	17618.1	17133.2	17644.4	17220.8
67.5°	14378.9	14415.5	15033.2	16489.2	16017.5	16284.8	16430.8	16366.5	16860.2	18048.9	16427.9
70°	13508.6	13479.3	14132.1	15845.2	13943.7	13537.8	13659.0	13457.4	14548.4	17060.2	14872.5
72.5°	11814.5	11919.7	12620.6	14054.8	11040.5	10380.4	10644.7	10123.4	11189.5	14611.2	12071.5
75°	9254.4	9279.3	10449.1	11795.5	8328.6	7287.3	7645.1	7427.5	8571.0	12188.4	8335.9
77.5°	6408.2	6352.7	7610.1	9009.1	5939.4	5334.8	5340.6	5236.9	5984.6	8974.0	5663.4
80°	4070.1	3985.4	4763.8	5565.6	4081.8	4366.6	4223.4	4219.0	3896.3	5536.4	3424.6
82.5°	2199.4	2292.8	3009.9	3488.9	2928.1	3375.0	3093.1	3002.6	2673.9	3465.5	2190.6
85°	1001.8	1089.5	1605.0	2373.1	2224.2	2249.0	1502.7	1772.9	2212.4	2814.2	1169.8
87.5°	97.9	125.6	331.5	1120.1	759.4	598.8	223.5	430.8	556.4	1000.4	93.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7115.0	7115.0	7115.0	7115.0	7115.0	7115.0	7115.0	7115.0	7115.0	7115.0	7115.0
2.5°	7561.9	7485.9	7227.5	7014.2	6787.9	6615.6	6390.6	6240.2	6136.5	5980.2	5961.3
5°	7214.3	7028.8	6579.0	6120.5	5724.7	5426.8	5124.5	4847.0	4683.4	4632.3	4566.6
7.5°	6628.7	6316.1	5737.8	5212.1	4757.9	4314.0	3972.2	3729.8	3567.7	3472.8	3358.9
10°	6146.8	5784.6	5080.7	4436.6	4062.8	3786.7	3485.9	3226.0	3025.9	2855.1	2761.6
12.5°	5822.5	5413.7	4622.1	4099.3	3810.2	3516.6	3164.7	2872.6	2577.6	2383.4	2300.1
15°	5724.7	5292.5	4480.5	3931.4	3516.6	3132.5	2738.2	2357.1	2065.0	1881.0	1819.6
17.5°	5964.2	5441.4	4479.0	3707.9	3171.9	2713.4	2208.1	1850.3	1551.0	1413.6	1369.9
20°	6411.1	5727.6	4492.1	3487.4	2798.1	2152.6	1606.4	1312.9	1169.8	1111.4	1089.5
22.5°	7034.7	6164.3	4531.6	3269.8	2389.2	1653.1	1203.4	1054.4	1003.3	993.1	988.7
25°	7802.8	6704.6	4664.5	3074.1	2044.6	1261.8	1006.2	939.1	909.8	899.6	898.1
27.5°	8509.6	7402.7	4825.1	2906.2	1711.6	1088.0	909.8	852.8	823.6	822.2	825.1
30°	9147.9	7986.8	4959.4	2717.8	1459.0	966.8	847.0	790.0	762.3	760.8	769.6
32.5°	9699.9	8467.3	5058.8	2532.3	1318.7	892.3	790.0	728.7	705.4	701.0	705.4
35°	10289.9	8946.3	5013.5	2387.8	1238.4	831.0	747.7	687.9	660.1	646.9	646.9
37.5°	10963.1	9439.9	4936.1	2268.0	1201.9	779.9	711.2	652.8	625.1	611.9	610.4
40°	11697.7	9933.5	4829.5	2161.4	1165.4	749.2	686.4	625.1	591.5	578.3	575.4
42.5°	12346.1	10355.6	4741.8	2091.2	1105.5	755.0	664.5	604.6	562.3	544.7	543.2
45°	12909.8	10780.6	4725.8	2050.4	1055.9	746.3	658.7	588.5	538.9	519.9	517.0
47.5°	13350.9	11223.1	4817.8	2027.0	1001.8	699.5	696.6	578.3	518.4	498.0	495.1
50°	13888.2	11851.0	5028.1	1978.8	952.2	655.7	736.0	576.8	502.4	476.1	468.8
52.5°	14603.9	12668.9	5312.9	1892.7	880.6	614.8	702.4	576.8	483.4	457.1	448.3
55°	15686.0	13711.6	5591.8	1771.5	779.9	560.8	633.8	559.3	455.6	432.3	426.4
57.5°	16403.1	14473.9	5770.0	1603.5	654.3	521.3	546.2	531.6	427.9	403.1	403.1
60°	16439.6	14678.4	5685.3	1391.8	575.4	484.8	474.7	536.0	403.1	376.8	373.9
62.5°	16019.0	14177.4	5244.2	1201.9	533.1	445.4	429.3	470.3	378.3	352.0	347.6
65°	15361.8	12899.6	4479.0	1111.4	509.7	410.4	387.0	385.5	352.0	327.1	321.3
67.5°	14154.1	11272.7	3680.2	1058.8	498.0	370.9	349.1	341.7	321.3	300.8	297.9
70°	12373.8	9441.4	2951.4	1036.8	492.1	330.0	312.5	303.7	286.3	270.1	268.7
72.5°	9626.8	7658.3	2435.9	1022.3	489.2	292.1	273.1	261.4	251.2	236.5	236.5
75°	6914.9	5634.2	1859.1	921.5	452.7	251.2	230.8	223.5	208.8	197.2	200.1
77.5°	4359.3	3794.1	1223.8	677.6	350.5	201.5	184.0	179.6	168.0	151.9	162.1
80°	2944.2	2668.2	714.1	426.4	220.5	147.5	141.6	140.2	127.1	109.5	111.0
82.5°	2003.6	1965.6	370.9	242.4	127.1	86.1	83.2	86.1	71.6	58.4	58.4
85°	782.8	1069.0	175.2	94.9	40.9	13.2	18.9	20.4	11.7	5.9	7.3
87.5°	14.6	109.5	4.4	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°	7115.0	7115.0	7115.0	7115.0	7115.0	7115.0	7115.0	7115.0	7115.0	7115.0	7115.0
2.5°	5932.1	5918.9	5940.9	5847.4	5866.4	5901.4	5918.9	5929.2	6073.7	6040.1	6132.1
5°	4628.0	4614.8	4699.5	4711.2	4755.0	4746.2	4788.6	4798.9	4851.4	4870.4	4998.9
7.5°	3366.2	3423.1	3519.5	3569.1	3643.7	3667.0	3645.1	3699.1	3589.7	3668.5	3691.8
10°	2704.6	2636.0	2595.1	2709.0	2723.6	2831.7	2787.9	2752.8	2817.1	2820.0	2881.4
12.5°	2251.9	2104.4	2006.6	2038.7	2073.8	2120.4	2127.8	2197.9	2244.6	2288.4	2325.0
15°	1765.6	1714.5	1625.4	1581.6	1631.2	1650.3	1695.5	1753.9	1803.6	1816.7	1866.4
17.5°	1355.2	1364.0	1349.4	1323.1	1353.8	1368.4	1371.3	1372.8	1385.9	1377.1	1450.2
20°	1090.9	1121.6	1158.1	1163.9	1174.2	1181.5	1168.3	1118.7	1120.1	1150.8	1174.2
22.5°	987.2	993.1	1034.0	1047.1	1079.2	1066.1	1028.1	1004.7	1001.8	1009.1	1020.8
25°	905.5	914.2	943.4	963.9	988.7	965.3	937.6	915.6	912.7	920.0	931.7
27.5°	832.4	845.6	871.9	892.3	915.6	893.8	867.5	848.5	847.0	845.6	852.8
30°	774.0	788.6	807.6	831.0	847.0	828.0	803.2	793.0	791.5	788.6	791.5
32.5°	715.6	738.9	757.9	769.6	785.7	771.1	752.1	746.3	736.0	727.3	722.9
35°	649.9	674.7	703.9	718.5	734.6	720.0	706.8	682.0	664.5	663.0	665.9
37.5°	611.9	622.1	645.5	670.3	686.4	679.1	654.3	629.5	625.1	625.1	628.0
40°	578.3	582.7	592.9	625.1	654.3	632.4	601.7	594.4	594.4	592.9	594.4
42.5°	544.7	549.1	549.1	573.9	620.7	585.6	562.3	562.3	562.3	563.7	568.1
45°	514.0	515.5	514.0	531.6	575.4	546.2	530.1	534.5	537.5	540.3	543.2
47.5°	487.7	489.2	487.7	502.4	524.3	512.6	503.9	509.7	515.5	519.9	522.8
50°	464.4	462.9	465.9	474.7	484.8	487.7	481.9	490.7	493.6	499.5	506.8
52.5°	444.0	442.5	445.4	449.8	464.4	464.4	464.4	471.7	477.6	483.4	493.6
55°	420.6	422.0	426.4	432.3	451.2	448.3	449.8	455.6	461.5	470.3	476.1
57.5°	398.7	401.6	407.5	416.2	435.2	433.7	435.2	438.1	445.4	449.8	455.6
60°	373.9	379.7	387.0	392.8	411.9	410.4	417.7	423.5	427.9	427.9	430.8
62.5°	349.1	357.8	365.1	369.5	389.9	391.4	401.6	406.0	408.9	406.0	410.4
65°	324.2	337.3	340.3	346.1	366.5	368.0	379.7	389.9	387.0	384.1	391.4
67.5°	299.3	315.5	314.0	321.3	341.7	344.7	354.9	372.4	366.5	363.6	369.5
70°	271.6	283.3	284.8	289.2	316.9	312.5	328.6	344.7	340.3	341.7	341.7
72.5°	240.9	251.2	251.2	260.0	289.2	281.9	295.0	312.5	312.5	311.1	311.1
75°	204.4	210.3	216.1	229.3	260.0	251.2	260.0	276.0	278.9	276.0	276.0
77.5°	165.1	173.7	176.7	194.3	216.1	214.7	223.5	230.8	236.5	233.6	233.6
80°	116.8	125.6	137.3	156.3	169.4	173.7	178.1	184.0	186.9	186.9	189.9
82.5°	65.7	78.8	89.1	108.1	113.9	135.9	134.4	138.7	134.4	118.3	131.5
85°	14.6	27.7	39.5	49.6	56.9	78.8	83.2	93.5	77.4	71.6	71.6
87.5°	0.0	0.0	0.0	0.0	0.0	11.7	23.3	32.1	27.7	23.3	23.3
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°	7115.0	7115.0	7115.0	7115.0	7115.0	7115.0	7115.0	7115.0	7115.0	7115.0
2.5°	6209.6	6336.6	6490.0	6754.3	6939.7	7139.8	7341.3	7556.0	7613.0	7671.4
5°	5034.0	5283.7	5419.5	5774.4	6146.8	6620.0	7006.9	7430.4	7607.2	7648.0
7.5°	3813.1	3982.5	4338.8	4698.1	5159.6	5656.1	6249.0	6909.1	7115.0	7201.2
10°	3023.0	3253.8	3566.3	3951.8	4356.3	4890.9	5559.7	6330.8	6622.8	6671.0
12.5°	2573.2	2830.2	3170.5	3577.9	3960.6	4363.7	5038.3	5834.2	6146.8	6250.5
15°	2057.6	2368.7	2761.6	3191.0	3607.1	4048.2	4731.7	5629.8	5990.5	6111.7
17.5°	1616.7	1867.8	2292.8	2758.7	3252.3	3810.2	4667.4	5727.6	6171.6	6284.0
20°	1237.0	1416.6	1774.4	2266.6	2844.8	3575.0	4683.4	6097.1	6628.7	6782.0
22.5°	1069.0	1161.0	1378.6	1847.4	2494.3	3370.6	4749.2	6603.9	7244.9	7500.5
25°	968.3	1016.4	1139.1	1445.8	2159.9	3171.9	4899.6	7285.9	8106.6	8276.0
27.5°	882.0	917.1	993.1	1213.6	1856.2	2987.9	5074.9	8042.3	8911.2	9163.9
30°	800.3	847.0	918.6	1077.8	1661.9	2820.0	5295.4	8655.7	9588.9	9824.0
32.5°	737.5	784.3	849.9	982.8	1496.9	2643.3	5426.8	9194.6	10142.4	10342.4
35°	686.4	725.8	794.4	906.9	1371.3	2509.0	5400.5	9622.4	10678.3	10882.8
37.5°	649.9	683.5	752.1	835.3	1276.4	2368.7	5387.4	10187.6	11331.1	11567.7
40°	616.3	651.3	714.1	788.6	1181.5	2203.8	5394.6	10748.4	12026.3	12262.9
42.5°	590.0	629.5	680.5	775.5	1083.6	2070.8	5394.6	11236.2	12630.9	12858.7
45°	568.1	610.4	660.1	774.0	1006.2	1970.0	5358.1	11655.3	13112.8	13307.0
47.5°	549.1	595.9	667.4	747.7	987.2	1897.1	5326.0	11991.3	13505.7	13688.2
50°	536.0	591.5	709.7	717.1	993.1	1875.1	5480.8	12414.7	13851.7	14009.5
52.5°	525.7	592.9	708.3	671.8	982.8	1889.8	5803.6	13076.3	14332.2	14343.9
55°	505.3	591.5	671.8	620.7	940.5	1914.6	6218.4	14037.2	15084.3	15093.1
57.5°	484.8	575.4	623.6	576.8	854.3	1914.6	6717.7	14947.1	15991.2	15998.5
60°	464.4	598.8	547.6	538.9	741.9	1879.5	7244.9	15347.2	16276.0	16350.4
62.5°	444.0	603.1	489.2	505.3	660.1	1794.8	7637.9	14904.7	15890.4	15997.1
65°	420.6	486.3	451.2	470.3	617.7	1653.1	7513.7	14094.2	15166.1	15293.2
67.5°	392.8	411.9	410.4	433.7	603.1	1444.3	6859.4	13069.0	14386.3	14378.9
70°	359.2	369.5	373.9	398.7	575.4	1282.2	5716.0	11738.6	13345.0	13508.6
72.5°	324.2	332.9	337.3	359.2	547.6	1190.2	4436.6	9905.8	11559.0	11814.5
75°	286.3	292.1	297.9	316.9	518.4	1054.4	3160.3	7561.9	8852.8	9254.4
77.5°	246.8	246.8	254.1	273.1	436.7	870.4	2120.4	5304.1	5997.8	6408.2
80°	200.1	201.5	198.6	219.1	321.3	595.9	1204.8	3542.9	3991.3	4070.1
82.5°	153.3	148.9	150.4	160.7	239.5	406.0	642.6	2200.8	2243.1	2199.4
85°	96.4	96.4	93.5	105.2	153.3	211.7	350.5	1347.9	1052.9	1001.8
87.5°	39.5	32.1	36.5	42.4	73.1	86.1	137.3	277.5	106.6	97.9
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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