

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: P647281

Luminaire Tested: **GALN-SA2D-835-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-835-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8747.7 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 125
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

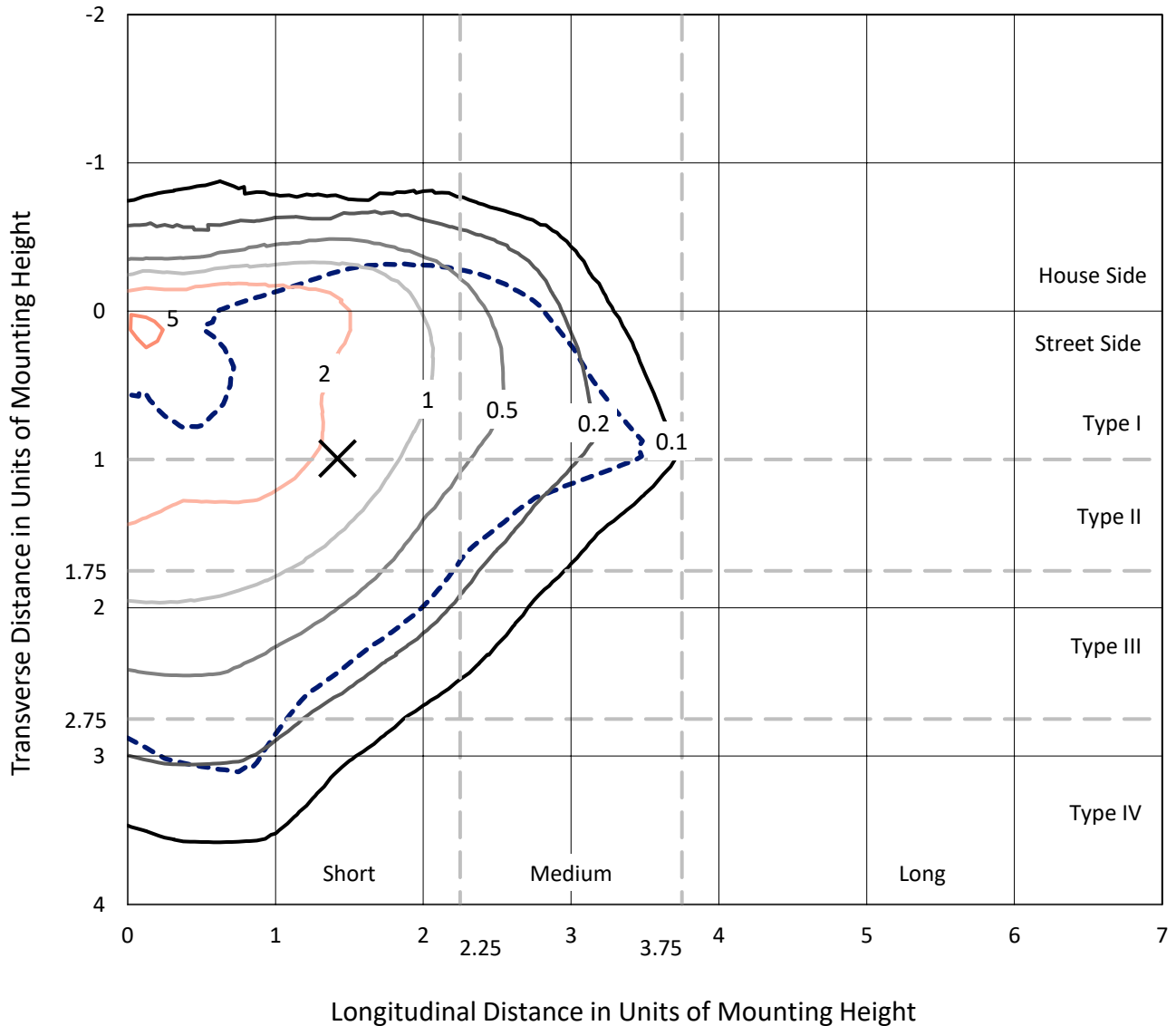




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Iso-Footcandle Lines of Horizontal Illumination

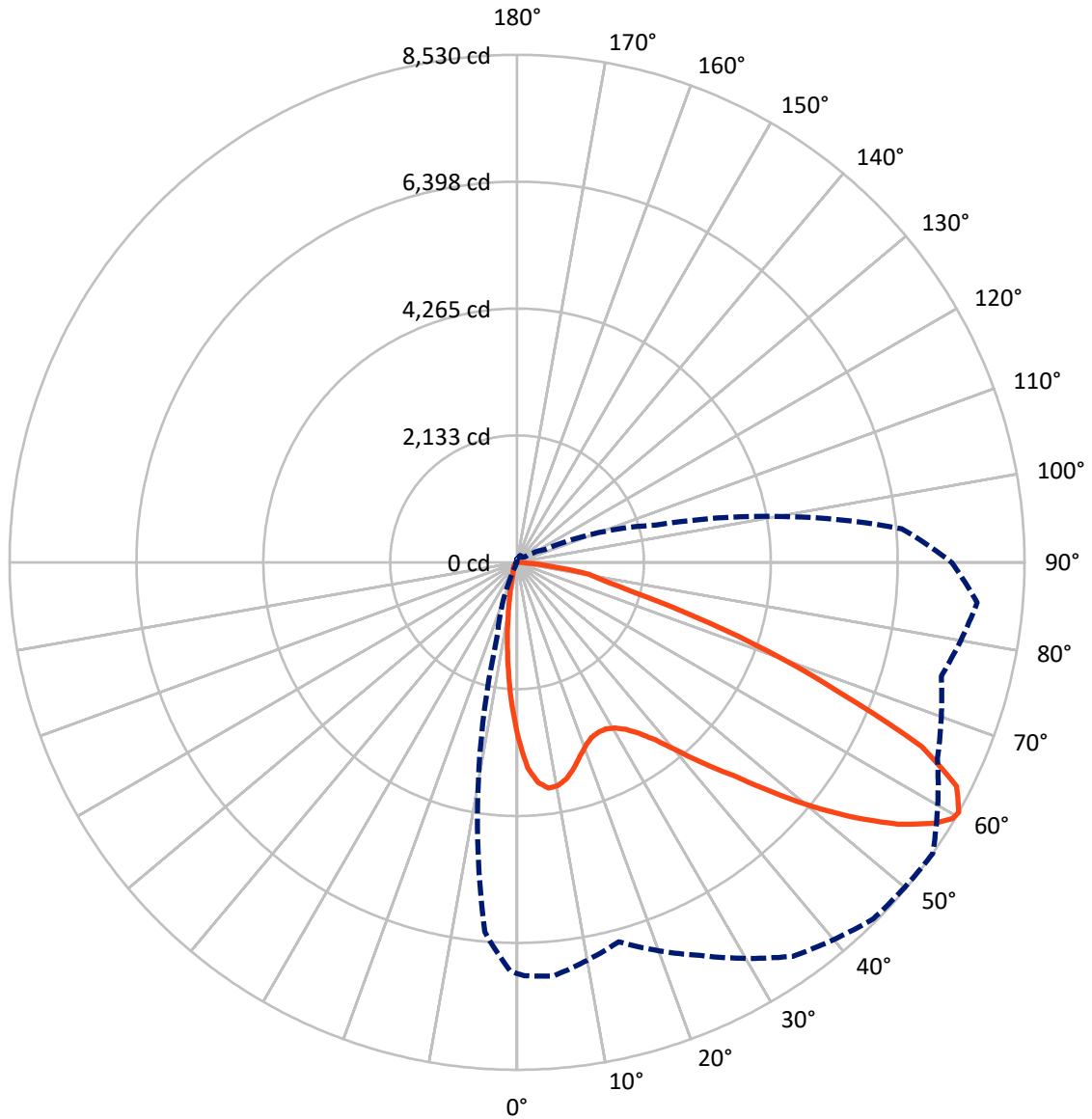
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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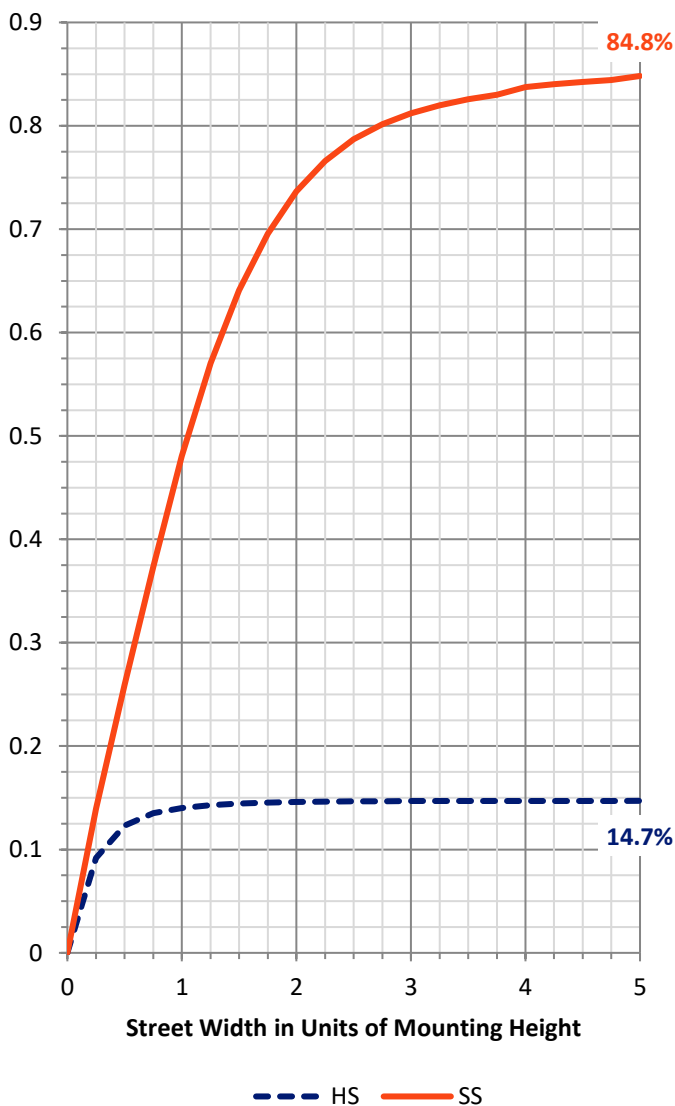
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1298.2	0.0	1298.2
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	7449.4	0.0	7449.4
	% Fixture	85.2	0.0	85.2
Total	Lumens	8747.7	0.0	8747.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.3	2.5
10°-20°	431.9	4.9
20°-30°	639.3	7.3
30°-40°	953.0	10.9
40°-50°	1395.6	16.0
50°-60°	2014.9	23.0
60°-70°	2119.6	24.2
70°-80°	871.9	10.0
80°-90°	102.1	1.2
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°	8747.7	100.0
0°-180°	8747.7	100.0

Coefficient of Utilization



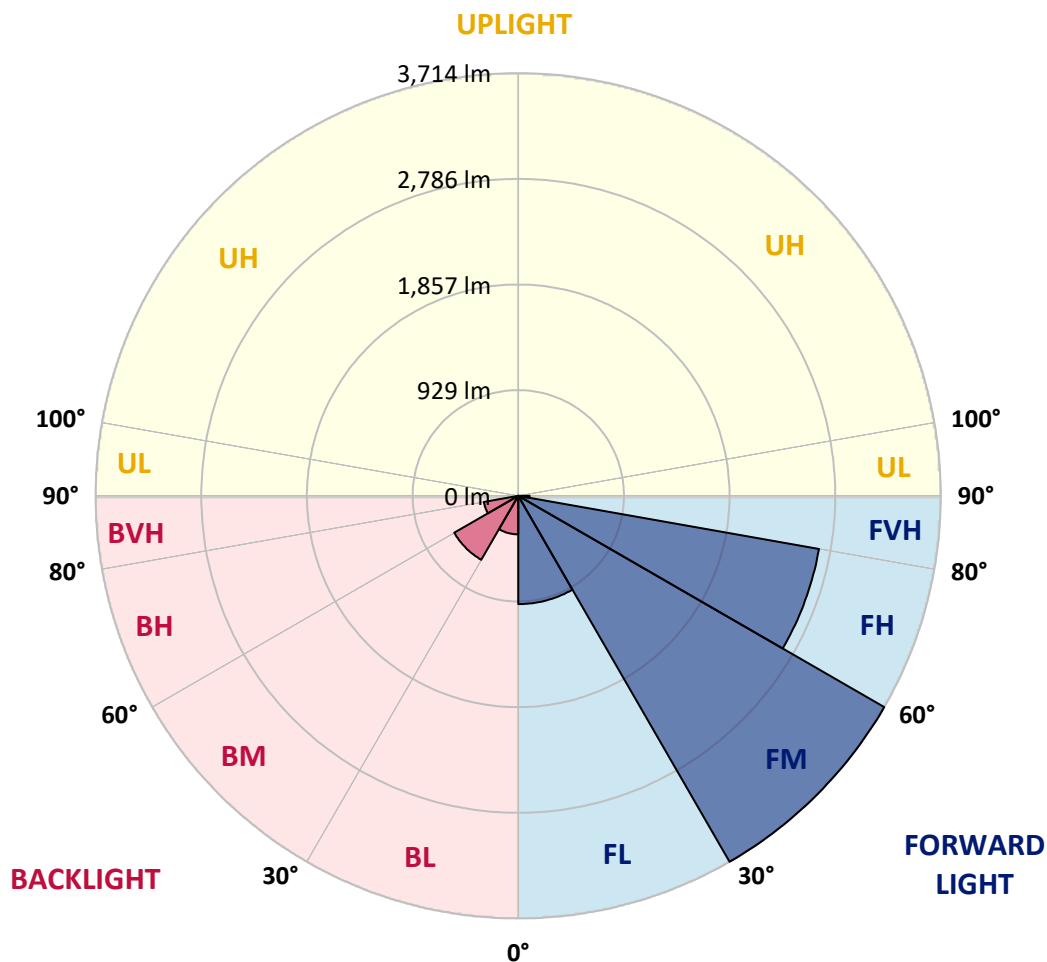
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	951.9	10.9			
FM (30°-60°)	3714.3	42.5			
FH (60°-80°)	2684.2	30.7			G2/5000
FVH (80°-90°)	99.1	1.1			G1/100
BL (0°-30°)	338.7	3.9	B1/500		
BM (30°-60°)	649.2	7.4	B1/1000		
BH (60°-80°)	307.3	3.5	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2961.9	2961.9	2961.9	2961.9	2961.9	2961.9	2961.9	2961.9	2961.9	2961.9	2961.9
2.5°	3236.0	3230.6	3278.4	3356.5	3435.3	3476.4	3468.3	3464.9	3399.6	3351.8	3251.5
5°	3229.2	3256.9	3342.4	3553.8	3714.0	3791.4	3814.4	3718.1	3590.8	3406.4	3178.7
7.5°	3036.0	3070.4	3209.8	3540.3	3825.1	3993.5	3987.4	3833.3	3570.6	3285.2	2960.6
10°	2796.3	2836.7	3000.3	3401.6	3771.2	3993.5	4005.6	3810.3	3483.7	3117.5	2776.1
12.5°	2627.3	2675.1	2856.2	3272.3	3632.6	3851.4	3865.5	3724.1	3418.4	3052.8	2675.7
15°	2570.0	2615.1	2799.0	3207.0	3485.1	3603.0	3599.6	3584.7	3392.9	3068.3	2681.1
17.5°	2668.4	2705.4	2912.8	3236.7	3347.1	3335.0	3352.5	3423.8	3398.2	3198.2	2850.8
20°	2922.2	2959.9	3182.8	3327.5	3241.4	3164.6	3172.7	3291.9	3448.1	3442.7	3116.1
22.5°	3271.7	3335.7	3537.6	3503.9	3227.2	3058.9	3042.0	3196.9	3532.9	3724.1	3474.3
25°	3714.0	3778.7	3936.2	3785.4	3296.6	3034.0	3018.5	3167.9	3635.9	3998.9	3877.7
27.5°	4085.7	4134.9	4291.8	4059.5	3398.9	3044.8	3019.2	3172.0	3719.4	4232.5	4217.7
30°	4383.3	4419.6	4512.0	4187.4	3487.1	3091.9	3062.2	3231.3	3756.4	4346.3	4493.1
32.5°	4623.0	4684.3	4713.3	4324.0	3613.7	3180.8	3130.3	3345.1	3846.6	4487.0	4781.9
35°	4897.0	4967.7	4930.7	4454.7	3780.7	3319.5	3257.5	3529.5	3983.4	4617.0	5117.2
37.5°	5244.5	5326.0	5181.2	4592.1	3957.1	3528.2	3499.2	3788.8	4190.8	4802.8	5476.8
40°	5604.1	5651.1	5424.3	4759.0	4173.9	3831.8	3859.5	4173.9	4462.1	5025.7	5859.3
42.5°	5884.8	5929.3	5674.1	4899.1	4395.4	4192.1	4307.2	4638.5	4773.2	5253.9	6144.7
45°	6099.6	6137.3	5847.1	5051.9	4694.4	4713.9	4931.4	5117.2	5085.0	5393.3	6364.9
47.5°	6266.6	6298.9	5980.5	5216.2	5142.1	5352.2	5684.8	5763.7	5408.1	5544.1	6564.2
50°	6335.3	6344.7	6022.2	5425.6	5650.5	6165.6	6512.4	6464.5	5778.5	5711.8	6776.3
52.5°	6424.8	6422.8	6141.4	5624.9	6128.5	6892.7	7238.8	7130.5	6197.2	5962.9	7014.7
55°	6659.8	6662.5	6396.6	5907.7	6535.9	7479.9	7850.3	7771.4	6639.0	6387.1	7292.7
57.5°	6945.3	6955.4	6759.5	6238.3	6925.1	7905.5	8306.8	8276.5	7236.2	6859.2	7555.3
59°	6982.3	7002.5	6931.2	6471.3	7156.1	8036.1	8463.0	8492.6	7556.0	7170.2	7697.4
60°	6915.0	6948.7	6981.0	6603.3	7291.4	8083.2	8472.4	8530.3	7796.4	7381.7	7762.0
62.5°	6621.4	6674.6	6836.9	7009.3	7460.4	7936.4	8171.4	8292.6	8094.0	7937.1	7768.1
65°	6237.0	6264.5	6498.9	7081.3	7132.5	7251.0	7323.7	7479.2	7736.4	8151.2	7490.0
67.5°	5606.7	5688.2	5975.1	6663.2	6165.0	6024.9	6006.7	5851.8	6519.7	7640.8	6804.6
70°	4631.8	4668.2	5021.6	5462.7	4652.7	4437.2	4523.4	4465.4	5054.0	6577.7	5476.8
72.5°	3502.6	3584.7	3930.2	4354.3	3166.0	2886.5	3124.2	3102.6	3796.2	5286.3	3762.5
75°	2492.0	2545.1	2985.5	3407.7	2217.2	1878.6	1964.1	2044.2	2650.2	4173.9	2223.3
77.5°	1712.3	1758.1	2088.7	2253.6	1617.3	1549.3	1417.3	1494.7	1736.5	2476.5	1210.0
80°	1032.9	1030.8	1248.3	1288.7	1126.5	1308.2	1097.5	1232.2	1049.7	1059.8	468.6
82.5°	670.6	663.9	763.6	832.3	626.9	659.2	442.4	637.6	684.1	295.6	148.1
85°	300.3	313.1	367.0	484.1	274.7	146.1	90.2	195.9	291.5	148.8	0.0
87.5°	31.0	24.3	64.7	117.8	37.7	4.1	13.5	6.7	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°	2961.9	2961.9	2961.9	2961.9	2961.9	2961.9	2961.9	2961.9	2961.9	2961.9	2961.9
2.5°	3205.0	3166.0	3049.5	2940.4	2846.8	2732.4	2658.3	2541.8	2471.1	2449.5	2452.9
5°	3076.4	2964.0	2742.5	2565.3	2368.1	2255.6	2084.6	1920.3	1831.4	1798.5	1783.6
7.5°	2807.1	2686.6	2419.2	2141.2	1929.7	1732.5	1605.2	1460.5	1361.5	1280.0	1265.9
10°	2607.1	2448.8	2117.6	1818.7	1651.7	1503.5	1376.3	1231.5	1115.0	1022.1	996.5
12.5°	2487.3	2310.2	1940.5	1690.0	1531.8	1379.6	1214.0	1046.3	927.2	826.8	780.4
15°	2465.7	2260.4	1890.7	1597.8	1402.5	1218.7	998.6	817.4	694.8	599.9	571.0
17.5°	2595.6	2349.9	1883.3	1501.5	1233.5	973.0	744.0	593.9	455.9	402.6	381.8
20°	2827.3	2508.1	1882.6	1389.7	1059.8	749.4	522.5	387.2	331.3	305.7	293.5
22.5°	3143.0	2723.6	1918.3	1293.4	879.4	552.8	373.0	308.3	276.1	255.2	250.5
25°	3528.9	3042.7	2005.8	1228.1	741.3	433.6	307.7	263.9	237.0	227.6	223.5
27.5°	3871.6	3348.4	2102.1	1160.8	642.4	383.8	285.5	241.7	220.2	212.7	206.7
30°	4167.2	3625.8	2148.6	1071.9	562.9	351.5	289.6	258.5	230.3	208.0	197.9
32.5°	4413.6	3838.6	2178.9	991.1	495.6	287.5	228.9	200.0	187.2	179.1	172.3
35°	4722.0	4068.9	2160.7	945.3	461.2	261.9	208.7	172.3	150.8	134.7	127.9
37.5°	5045.2	4299.1	2129.1	907.7	445.8	243.0	198.6	163.6	140.1	123.2	114.5
40°	5379.8	4512.6	2092.0	872.7	431.6	231.0	192.5	156.2	132.6	114.5	105.0
42.5°	5686.2	4720.6	2077.2	849.7	408.7	232.9	187.8	152.8	125.2	106.4	98.3
45°	5934.0	4917.9	2097.4	837.6	383.8	229.6	189.2	148.8	119.2	101.0	92.9
47.5°	6198.6	5196.7	2162.7	825.5	359.6	213.4	199.3	148.1	116.5	97.6	88.9
50°	6506.3	5553.6	2312.2	795.8	330.0	195.9	212.1	147.4	113.1	93.6	84.9
52.5°	6916.3	5958.9	2466.4	744.0	286.8	179.1	202.6	145.4	106.4	88.9	80.1
55°	7284.6	6385.8	2597.0	682.8	232.3	154.9	182.4	136.7	94.9	80.8	72.7
57.5°	7436.9	6626.8	2593.0	597.9	185.8	136.0	150.2	125.2	82.8	71.4	64.7
59°	7380.9	6596.5	2506.1	535.3	169.7	125.9	124.6	123.9	77.4	64.7	59.3
60°	7302.2	6486.1	2412.5	504.3	159.6	119.2	114.5	122.5	72.7	60.6	55.2
62.5°	7000.5	6028.2	2102.1	451.8	146.1	101.0	91.5	103.7	64.7	52.5	47.8
65°	6563.5	5324.6	1779.6	437.0	142.0	83.5	76.1	74.1	55.2	44.5	40.4
67.5°	5711.1	4505.9	1441.6	426.9	143.4	70.0	66.6	55.9	45.8	37.0	34.4
70°	4572.5	3513.4	1180.3	415.5	144.8	57.2	55.9	44.5	37.0	31.0	28.3
72.5°	2778.1	2082.5	929.2	360.9	140.7	45.8	49.8	33.7	26.9	22.2	20.9
75°	1717.7	1425.5	576.4	280.8	92.9	33.7	35.0	20.9	18.2	14.2	14.2
77.5°	995.2	900.2	206.0	101.0	41.1	20.2	15.5	10.8	10.1	6.0	6.0
80°	412.7	330.6	71.4	34.4	22.2	9.4	3.4	0.7	0.0	0.0	0.0
82.5°	120.5	107.0	19.5	15.5	6.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	2961.9	2961.9	2961.9	2961.9	2961.9	2961.9	2961.9	2961.9	2961.9	2961.9	2961.9
2.5°	2395.7	2373.4	2363.3	2397.7	2366.1	2406.5	2375.5	2388.9	2428.6	2446.2	2491.3
5°	1793.1	1770.1	1759.4	1811.2	1808.6	1834.1	1831.4	1855.0	1875.2	1830.1	1876.5
7.5°	1249.0	1233.5	1259.1	1299.5	1342.6	1328.4	1328.4	1296.8	1307.6	1300.9	1298.8
10°	950.1	896.8	883.4	882.0	898.2	901.5	883.4	839.6	855.8	860.5	888.8
12.5°	747.4	706.3	643.7	615.4	608.0	614.1	554.1	515.8	533.9	523.2	550.8
15°	536.0	502.3	465.3	433.6	424.9	412.7	347.4	301.6	296.3	298.2	303.0
17.5°	382.4	359.6	359.6	325.9	307.7	271.3	238.3	218.1	216.1	218.1	221.5
20°	282.1	270.0	268.6	259.9	239.7	215.5	192.5	188.5	187.2	190.6	191.9
22.5°	243.0	230.3	219.5	218.8	200.0	179.8	169.0	163.6	164.3	165.6	169.0
25°	217.5	204.0	192.5	185.8	172.3	158.2	148.1	145.4	145.4	147.4	148.1
27.5°	199.3	182.4	172.3	162.9	150.8	138.7	130.0	127.9	126.6	127.9	131.3
30°	186.5	169.7	156.9	142.7	133.3	121.8	114.5	111.7	111.1	111.7	114.5
32.5°	159.6	149.5	139.4	126.6	115.1	107.7	99.7	94.9	94.9	96.3	99.0
35°	120.5	115.1	114.5	111.1	101.6	93.6	84.2	79.5	79.5	82.1	83.5
37.5°	106.4	96.3	94.9	93.6	89.6	78.8	70.0	66.0	65.3	67.3	70.0
40°	96.9	85.5	79.5	78.1	78.8	66.6	57.2	53.2	53.2	53.9	56.5
42.5°	89.6	76.1	65.3	64.0	66.6	55.9	46.4	42.4	42.4	42.4	45.8
45°	83.5	68.0	55.2	48.5	52.5	45.8	37.7	33.7	32.3	33.7	35.0
47.5°	79.5	61.9	48.5	39.1	39.1	36.3	30.3	25.6	24.3	24.9	26.9
50°	76.1	56.5	41.1	31.6	28.3	29.0	22.9	19.5	18.2	18.2	20.2
52.5°	70.7	51.2	35.7	26.9	21.5	19.5	16.8	14.2	13.5	14.2	15.5
55°	64.0	46.4	31.0	22.2	16.8	13.5	12.1	10.1	9.4	10.1	12.1
57.5°	56.5	39.1	24.9	17.5	11.4	8.8	8.1	6.7	5.4	6.0	7.4
59°	51.8	35.0	21.5	14.2	8.8	6.0	6.0	4.7	3.4	4.1	6.0
60°	49.8	32.3	18.2	12.1	7.4	4.7	4.7	3.4	2.0	2.7	4.7
62.5°	42.4	26.9	14.2	7.4	3.4	0.7	2.0	0.7	0.0	0.7	2.0
65°	35.7	21.5	9.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7
67.5°	29.6	16.1	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	23.6	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	16.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	10.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2961.9	2961.9	2961.9	2961.9	2961.9	2961.9	2961.9	2961.9	2961.9	2961.9
2.5°	2494.0	2590.2	2649.5	2761.3	2875.7	2964.0	3074.4	3173.3	3214.4	3236.0
5°	1923.7	2057.6	2171.5	2341.8	2500.0	2692.6	2887.9	3118.1	3206.4	3229.2
7.5°	1350.0	1486.7	1605.9	1803.2	2028.8	2286.6	2578.8	2871.0	2999.7	3036.0
10°	975.0	1121.1	1266.5	1463.8	1674.5	1954.0	2258.3	2619.9	2768.1	2796.3
12.5°	615.4	772.3	1008.7	1252.4	1475.3	1700.1	2018.7	2411.8	2575.4	2627.3
15°	356.9	474.0	652.5	970.3	1253.7	1551.4	1898.8	2333.7	2516.9	2570.0
17.5°	239.0	279.5	402.0	645.0	1019.4	1413.9	1868.5	2397.7	2600.3	2668.4
20°	201.3	219.5	262.6	393.2	785.1	1291.4	1876.5	2571.5	2837.4	2922.2
22.5°	177.1	193.9	221.5	282.8	548.1	1139.3	1914.9	2819.9	3163.2	3271.7
25°	156.2	173.0	197.3	234.4	368.3	963.6	1999.1	3183.4	3594.8	3714.0
27.5°	138.7	154.2	175.1	206.7	283.4	767.6	2073.9	3537.6	3988.8	4085.7
30°	122.5	135.3	155.5	179.8	235.7	591.9	2111.5	3847.3	4275.6	4383.3
32.5°	106.4	118.5	138.0	157.5	193.9	451.1	2085.3	4075.0	4554.3	4623.0
35°	90.9	103.7	119.9	138.0	167.6	364.3	1954.0	4330.8	4843.2	4897.0
37.5°	78.1	88.9	105.7	119.9	151.5	291.5	1795.1	4561.1	5167.1	5244.5
40°	66.0	76.7	93.6	106.4	139.4	229.6	1651.7	4816.9	5508.4	5604.1
42.5°	53.9	66.6	81.5	102.3	119.9	175.1	1477.9	5024.4	5765.0	5884.8
45°	43.1	57.2	73.4	101.6	104.4	133.3	1310.3	5185.9	5991.9	6099.6
47.5°	34.4	48.5	70.7	94.9	85.5	105.7	1214.7	5354.9	6180.4	6266.6
50°	27.6	40.4	74.1	83.5	71.4	89.6	1212.0	5543.5	6278.0	6335.3
52.5°	22.2	33.0	62.6	64.0	60.6	78.8	1284.7	5755.5	6377.7	6424.8
55°	18.9	27.6	41.1	47.1	54.6	71.4	1339.2	6082.1	6615.4	6659.8
57.5°	14.8	23.6	31.6	37.7	48.5	65.3	1346.6	6333.9	6916.3	6945.3
59°	12.8	20.2	28.3	33.7	44.5	61.3	1316.4	6349.4	6935.9	6982.3
60°	10.8	18.2	24.9	31.6	41.1	57.9	1283.3	6237.0	6863.2	6915.0
62.5°	8.1	14.2	18.2	25.6	33.7	49.8	1127.1	5844.4	6585.1	6621.4
65°	5.4	10.1	13.5	18.9	26.2	43.1	918.4	5335.4	6155.5	6237.0
67.5°	3.4	7.4	10.8	14.2	21.5	36.3	654.4	4575.2	5554.2	5606.7
70°	2.0	4.7	8.1	11.4	16.8	29.0	388.5	3616.4	4621.0	4631.8
72.5°	1.3	3.4	5.4	8.1	13.5	26.2	188.5	2357.3	3374.0	3502.6
75°	0.7	2.0	3.4	6.0	10.8	21.5	90.2	1574.9	2454.9	2492.0
77.5°	0.0	0.7	2.0	4.1	8.1	16.8	52.5	1034.2	1673.9	1712.3
80°	0.0	0.0	1.3	3.4	6.0	10.8	31.6	610.0	1014.0	1032.9
82.5°	0.0	0.0	0.7	2.7	4.1	8.1	16.1	267.9	663.9	670.6
85°	0.0	0.0	0.7	2.7	3.4	5.4	6.0	36.3	294.9	300.3
87.5°	0.0	0.0	0.7	3.4	3.4	3.4	3.4	2.0	24.9	31.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)