

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: P651241

Luminaire Tested: **GALN-SA2D-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651241
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-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 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: 9395.7 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

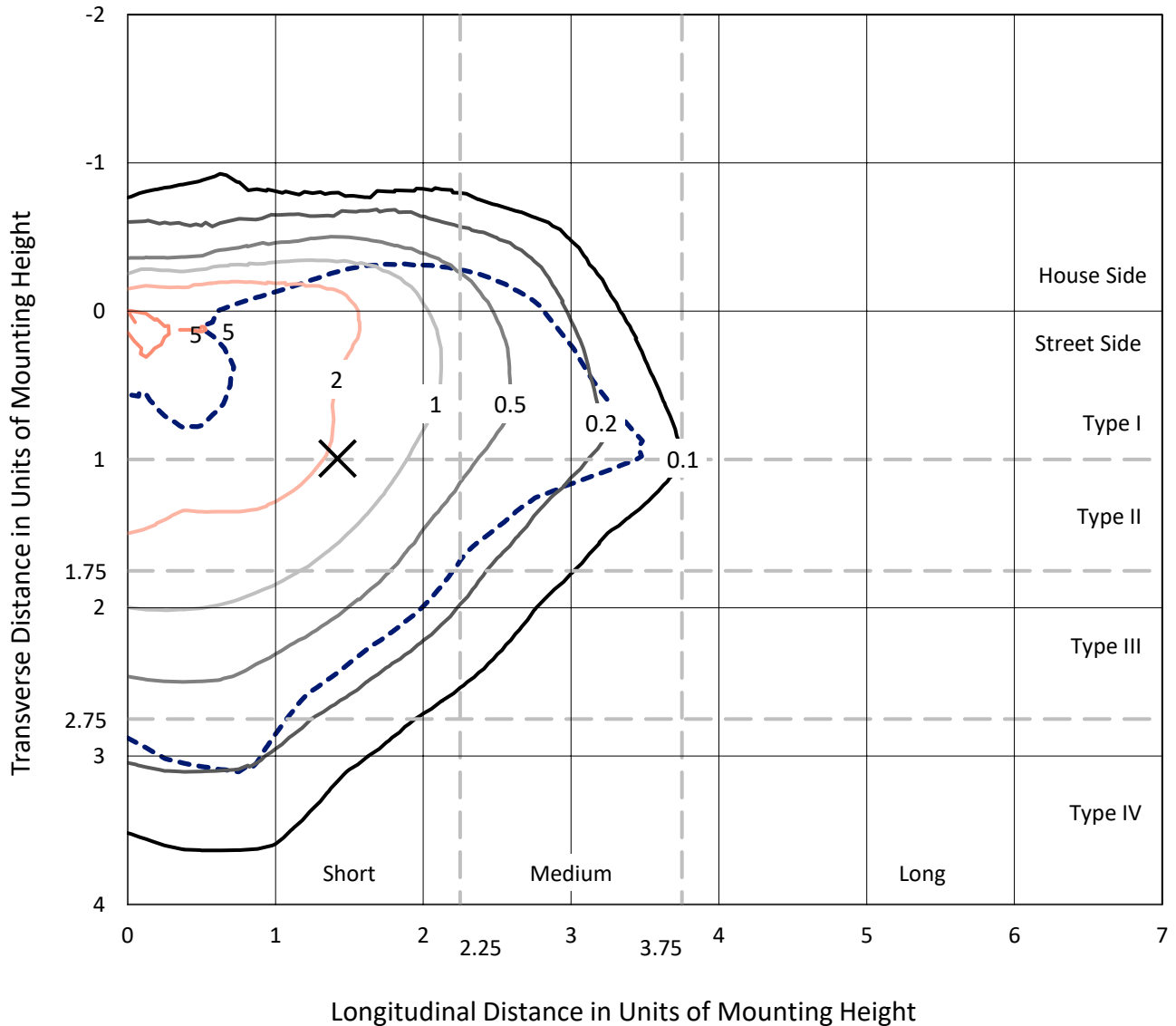
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

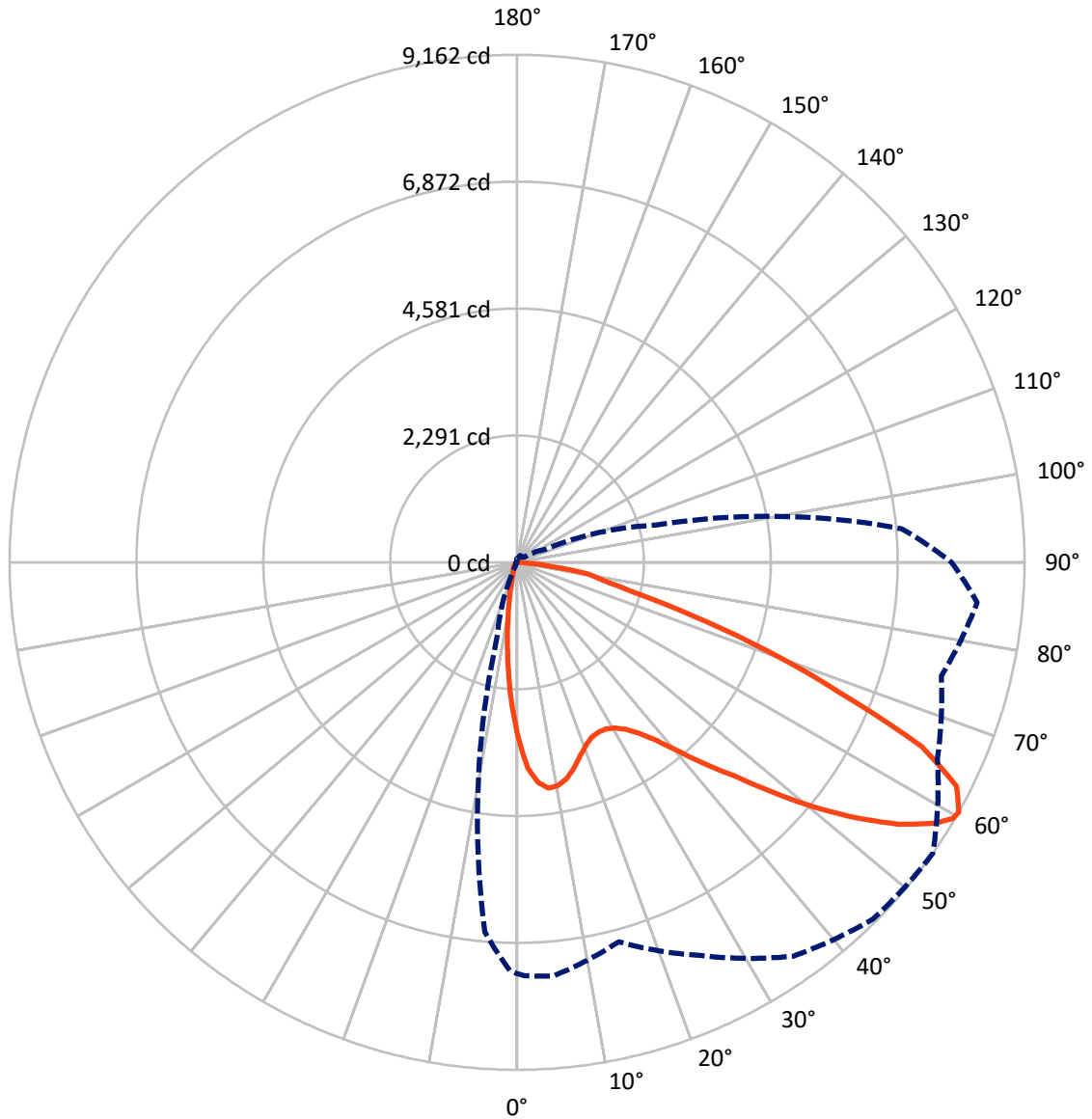
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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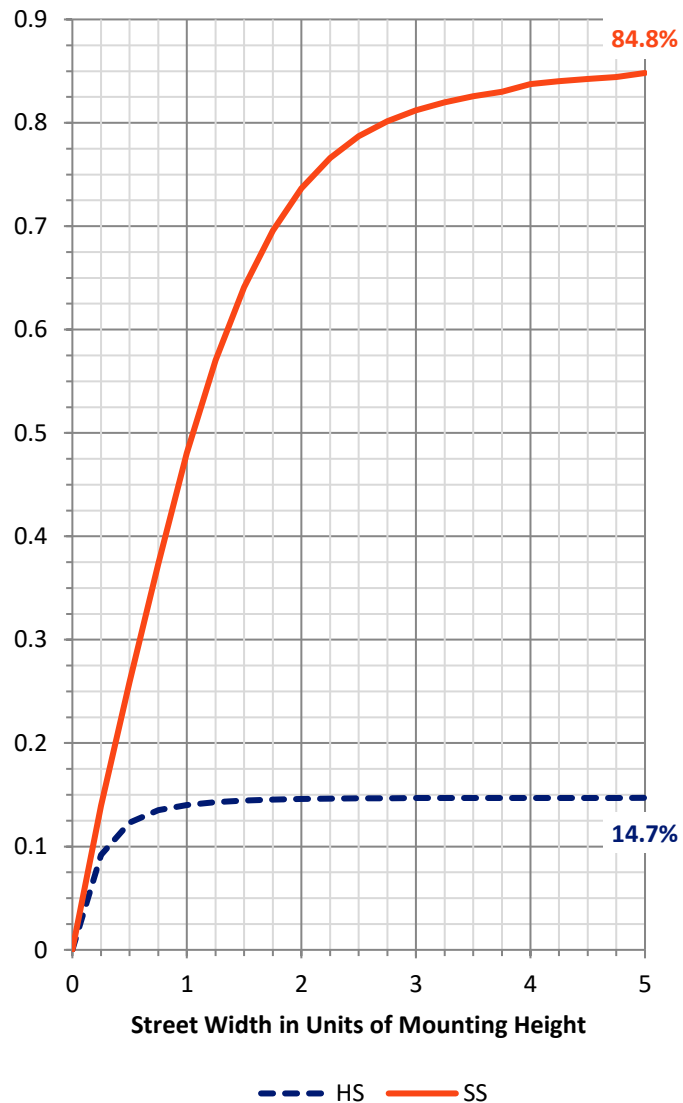
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1394.4	0.0	1394.4
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	8001.3	0.0	8001.3
	% Fixture	85.2	0.0	85.2
Total	Lumens	9395.7	0.0	9395.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.6	2.5
10°-20°	463.9	4.9
20°-30°	686.7	7.3
30°-40°	1023.6	10.9
40°-50°	1499.0	16.0
50°-60°	2164.1	23.0
60°-70°	2276.6	24.2
70°-80°	936.5	10.0
80°-90°	109.7	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°	9395.7	100.0
0°-180°	9395.7	100.0

Coefficient of Utilization



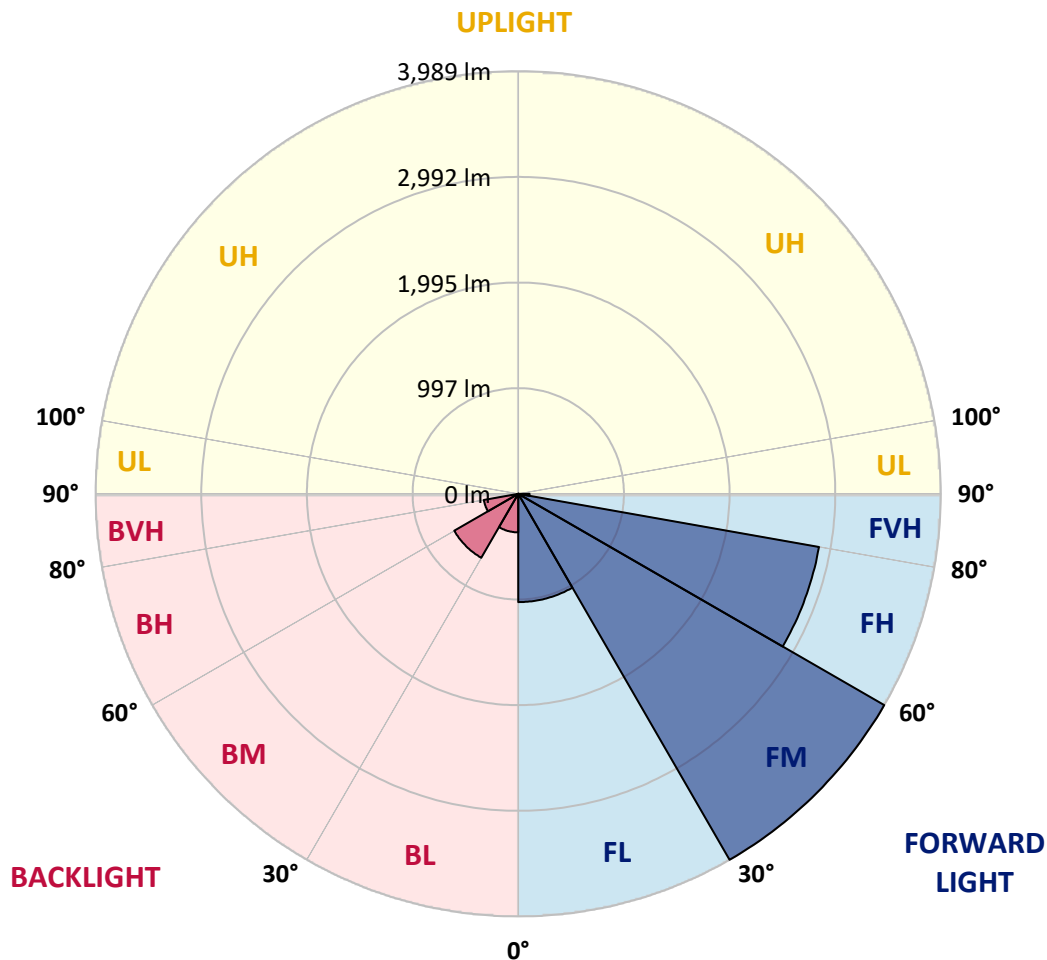
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1022.4	10.9			
FM (30°-60°)	3989.4	42.5			
FH (60°-80°)	2883.0	30.7			G2/5000
FVH (80°-90°)	106.5	1.1			G2/225
BL (0°-30°)	363.8	3.9	B1/500		
BM (30°-60°)	697.3	7.4	B1/1000		
BH (60°-80°)	330.0	3.5	B1/500		G1/500
BVH (80°-90°)	3.2	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°	3181.3	3181.3	3181.3	3181.3	3181.3	3181.3	3181.3	3181.3	3181.3	3181.3	3181.3
2.5°	3475.7	3469.9	3521.3	3605.1	3689.7	3733.9	3725.2	3721.6	3651.5	3600.1	3492.3
5°	3468.5	3498.1	3590.0	3817.0	3989.1	4072.3	4096.9	3993.5	3856.8	3658.7	3414.2
7.5°	3260.9	3297.8	3447.5	3802.6	4108.5	4289.3	4282.8	4117.2	3835.1	3528.5	3179.9
10°	3003.5	3046.9	3222.5	3653.6	4050.6	4289.3	4302.3	4092.6	3741.8	3348.4	2981.8
12.5°	2821.9	2873.3	3067.8	3514.7	3901.7	4136.7	4151.8	4000.0	3671.6	3279.0	2873.9
15°	2760.4	2808.9	3006.3	3444.6	3743.3	3869.9	3866.2	3850.3	3644.2	3295.6	2879.8
17.5°	2866.0	2905.8	3128.5	3476.4	3595.0	3582.0	3600.8	3677.4	3649.9	3435.1	3062.0
20°	3138.7	3179.1	3418.6	3574.0	3481.5	3399.0	3407.7	3535.7	3703.5	3697.7	3346.9
22.5°	3514.0	3582.7	3799.6	3763.5	3466.3	3285.5	3267.4	3433.7	3794.6	4000.0	3731.7
25°	3989.1	4058.6	4227.8	4065.8	3540.8	3258.7	3242.1	3402.6	3905.3	4295.1	4164.9
27.5°	4388.3	4441.2	4609.7	4360.2	3650.7	3270.3	3242.8	3407.0	3994.9	4546.0	4530.1
30°	4708.0	4747.0	4846.2	4497.6	3745.4	3320.9	3289.1	3470.6	4034.7	4668.2	4825.9
32.5°	4965.4	5031.3	5062.4	4644.3	3881.4	3416.4	3362.1	3592.8	4131.6	4819.4	5136.2
35°	5259.8	5335.7	5295.9	4784.7	4060.8	3565.3	3498.8	3791.0	4278.4	4959.0	5496.3
37.5°	5633.0	5720.5	5565.0	4932.2	4250.2	3789.5	3758.4	4069.4	4501.2	5158.5	5882.5
40°	6019.2	6069.7	5826.1	5111.5	4483.1	4115.7	4145.4	4483.1	4792.6	5398.0	6293.3
42.5°	6320.7	6368.5	6094.4	5262.0	4721.0	4502.6	4626.3	4982.1	5126.7	5643.1	6599.9
45°	6551.5	6591.9	6280.3	5426.1	5042.1	5063.1	5296.7	5496.3	5461.6	5792.8	6836.4
47.5°	6730.8	6765.5	6423.5	5602.6	5523.0	5748.7	6105.9	6190.6	5808.7	5954.8	7050.4
50°	6804.5	6814.7	6468.3	5827.5	6069.1	6622.3	6994.8	6943.4	6206.5	6134.8	7278.3
52.5°	6900.7	6898.6	6596.3	6041.6	6582.5	7403.3	7775.0	7658.7	6656.3	6404.6	7534.3
55°	7153.1	7156.1	6870.4	6345.3	7020.1	8034.0	8431.8	8347.1	7130.8	6860.2	7832.9
57.5°	7459.8	7470.6	7260.2	6700.4	7438.1	8491.1	8922.1	8889.5	7772.2	7367.2	8115.0
59°	7499.5	7521.2	7444.6	6950.6	7686.2	8631.4	9089.9	9121.7	8115.7	7701.3	8267.6
60°	7427.2	7463.4	7498.1	7092.4	7831.5	8682.0	9100.0	9162.2	8373.9	7928.4	8337.0
62.5°	7111.9	7169.0	7343.4	7528.5	8013.0	8524.3	8776.7	8906.9	8693.6	8525.0	8343.6
65°	6699.0	6728.6	6980.3	7605.8	7660.8	7788.1	7866.2	8033.2	8309.5	8755.0	8044.8
67.5°	6022.1	6109.5	6417.7	7156.7	6621.6	6471.2	6451.6	6285.3	7002.7	8206.8	7308.6
70°	4974.9	5014.0	5393.6	5867.3	4997.3	4765.9	4858.5	4796.2	5428.3	7064.9	5882.5
72.5°	3762.0	3850.3	4221.3	4676.9	3400.5	3100.3	3355.7	3332.5	4077.4	5677.8	4041.3
75°	2676.6	2733.7	3206.6	3660.1	2381.5	2017.7	2109.6	2195.6	2846.5	4483.1	2388.0
77.5°	1839.1	1888.3	2243.4	2420.6	1737.1	1664.1	1522.3	1605.5	1865.1	2659.9	1299.6
80°	1109.4	1107.2	1340.8	1384.2	1209.9	1405.1	1178.8	1323.5	1127.4	1138.3	503.3
82.5°	720.3	713.1	820.1	893.9	673.3	708.0	475.2	684.8	734.8	317.5	159.1
85°	322.5	336.3	394.2	520.0	295.0	156.9	96.9	210.4	313.1	159.8	0.0
87.5°	33.3	26.1	69.5	126.6	40.5	4.4	14.5	7.2	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°	3181.3	3181.3	3181.3	3181.3	3181.3	3181.3	3181.3	3181.3	3181.3	3181.3	3181.3
2.5°	3442.4	3400.5	3275.4	3158.2	3057.7	2934.8	2855.2	2730.1	2654.1	2631.0	2634.6
5°	3304.3	3183.5	2945.6	2755.4	2543.5	2422.7	2239.0	2062.6	1967.1	1931.7	1915.7
7.5°	3015.0	2885.6	2598.4	2299.8	2072.6	1860.8	1724.1	1568.6	1462.3	1374.8	1359.6
10°	2800.2	2630.2	2274.5	1953.4	1774.0	1614.9	1478.2	1322.7	1197.6	1097.8	1070.3
12.5°	2671.5	2481.3	2084.3	1815.2	1645.2	1481.8	1303.9	1123.8	995.8	888.1	838.2
15°	2648.3	2427.8	2030.8	1716.1	1506.4	1309.0	1072.5	877.9	746.3	644.4	613.3
17.5°	2787.9	2523.9	2022.8	1612.7	1324.9	1045.0	799.1	637.9	489.6	432.4	410.1
20°	3036.7	2693.9	2022.0	1492.7	1138.3	804.9	561.2	415.9	355.8	328.3	315.3
22.5°	3375.9	2925.3	2060.4	1389.2	944.5	593.7	400.7	331.2	296.5	274.1	269.0
25°	3790.3	3268.1	2154.4	1319.1	796.3	465.7	330.5	283.5	254.6	244.5	240.1
27.5°	4158.4	3596.5	2257.8	1246.8	690.0	412.3	306.6	259.6	236.5	228.5	222.0
30°	4475.9	3894.4	2307.7	1151.3	604.6	377.5	311.0	277.7	247.3	223.5	212.6
32.5°	4740.5	4122.9	2340.3	1064.5	532.3	308.8	245.9	214.8	201.1	192.3	185.1
35°	5071.8	4370.3	2320.7	1015.3	495.3	281.3	224.2	185.1	162.0	144.7	137.4
37.5°	5418.9	4617.6	2286.8	974.9	478.8	261.0	213.4	175.8	150.5	132.4	123.0
40°	5778.3	4846.9	2247.0	937.3	463.6	248.1	206.8	167.8	142.5	123.0	112.8
42.5°	6107.4	5070.3	2231.1	912.7	439.0	250.2	201.8	164.2	134.5	114.3	105.5
45°	6373.5	5282.2	2252.8	899.6	412.3	246.6	203.2	159.8	128.0	108.5	99.8
47.5°	6657.8	5581.6	2322.9	886.7	386.2	229.3	214.0	159.1	125.1	104.9	95.5
50°	6988.3	5965.0	2483.5	854.8	354.4	210.4	227.8	158.4	121.5	100.5	91.2
52.5°	7428.6	6400.3	2649.1	799.1	308.1	192.3	217.7	156.2	114.3	95.5	86.0
55°	7824.2	6858.8	2789.3	733.4	249.5	166.3	196.0	146.8	101.9	86.8	78.1
57.5°	7987.7	7117.7	2785.1	642.2	199.6	146.1	161.3	134.5	89.0	76.7	69.5
59°	7927.7	7085.2	2691.7	574.9	182.2	135.2	133.8	133.0	83.2	69.5	63.7
60°	7843.1	6966.6	2591.2	541.7	171.4	128.0	123.0	131.6	78.1	65.1	59.3
62.5°	7519.0	6474.8	2257.8	485.3	156.9	108.5	98.3	111.3	69.5	56.4	51.4
65°	7049.7	5719.1	1911.4	469.4	152.6	89.7	81.7	79.6	59.3	47.8	43.4
67.5°	6134.2	4839.6	1548.4	458.5	154.1	75.2	71.6	60.0	49.2	39.8	36.9
70°	4911.2	3773.7	1267.7	446.2	155.5	61.5	60.0	47.8	39.8	33.3	30.4
72.5°	2983.9	2236.8	998.0	387.6	151.1	49.2	53.5	36.2	28.9	23.9	22.5
75°	1844.9	1531.0	619.1	301.6	99.8	36.2	37.6	22.5	19.5	15.2	15.2
77.5°	1068.9	966.9	221.3	108.5	44.2	21.7	16.7	11.6	10.8	6.5	6.5
80°	443.3	355.1	76.7	36.9	23.9	10.1	3.6	0.8	0.0	0.0	0.0
82.5°	129.4	115.0	20.9	16.7	7.2	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°	3181.3	3181.3	3181.3	3181.3	3181.3	3181.3	3181.3	3181.3	3181.3	3181.3	3181.3
2.5°	2573.1	2549.2	2538.4	2575.3	2541.3	2584.7	2551.4	2565.9	2608.5	2627.4	2675.8
5°	1925.9	1901.2	1889.7	1945.4	1942.5	1970.0	1967.1	1992.4	2014.1	1965.7	2015.5
7.5°	1341.6	1324.9	1352.4	1395.8	1442.1	1426.8	1426.8	1392.9	1404.5	1397.2	1395.1
10°	1020.5	963.3	948.8	947.4	964.7	968.3	948.8	901.8	919.2	924.3	954.6
12.5°	802.7	758.7	691.4	661.0	653.0	659.6	595.2	554.0	573.5	562.0	591.6
15°	575.7	539.5	499.7	465.7	456.3	443.3	373.2	324.0	318.2	320.3	325.5
17.5°	410.7	386.2	386.2	350.0	330.5	291.4	256.0	234.3	232.1	234.3	237.9
20°	303.0	290.0	288.5	279.1	257.4	231.4	206.8	202.5	201.1	204.7	206.1
22.5°	261.0	247.3	235.7	235.1	214.8	193.1	181.5	175.8	176.4	177.9	181.5
25°	233.6	219.2	206.8	199.6	185.1	170.0	159.1	156.2	156.2	158.4	159.1
27.5°	214.0	196.0	185.1	175.0	162.0	148.9	139.6	137.4	136.0	137.4	141.0
30°	200.3	182.2	168.5	153.3	143.2	130.9	123.0	120.0	119.3	120.0	123.0
32.5°	171.4	160.5	149.7	136.0	123.6	115.7	107.1	101.9	101.9	103.4	106.3
35°	129.4	123.6	123.0	119.3	109.2	100.5	90.4	85.4	85.4	88.2	89.7
37.5°	114.3	103.4	101.9	100.5	96.2	84.6	75.2	70.9	70.1	72.3	75.2
40°	104.1	91.8	85.4	83.9	84.6	71.6	61.5	57.1	57.1	57.9	60.7
42.5°	96.2	81.7	70.1	68.7	71.6	60.0	49.9	45.6	45.6	45.6	49.2
45°	89.7	73.1	59.3	52.1	56.4	49.2	40.5	36.2	34.7	36.2	37.6
47.5°	85.4	66.5	52.1	42.0	42.0	39.0	32.5	27.5	26.1	26.7	28.9
50°	81.7	60.7	44.2	34.0	30.4	31.1	24.6	20.9	19.5	19.5	21.7
52.5°	75.9	55.0	38.3	28.9	23.1	20.9	18.1	15.2	14.5	15.2	16.7
55°	68.7	49.9	33.3	23.9	18.1	14.5	13.0	10.8	10.1	10.8	13.0
57.5°	60.7	42.0	26.7	18.8	12.3	9.4	8.7	7.2	5.8	6.5	8.0
59°	55.7	37.6	23.1	15.2	9.4	6.5	6.5	5.0	3.6	4.4	6.5
60°	53.5	34.7	19.5	13.0	8.0	5.0	5.0	3.6	2.2	2.9	5.0
62.5°	45.6	28.9	15.2	8.0	3.6	0.8	2.2	0.8	0.0	0.8	2.2
65°	38.3	23.1	10.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.8
67.5°	31.8	17.3	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	25.3	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	17.3	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	10.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.4	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°	3181.3	3181.3	3181.3	3181.3	3181.3	3181.3	3181.3	3181.3	3181.3	3181.3
2.5°	2678.8	2782.1	2845.8	2965.9	3088.7	3183.5	3302.1	3408.4	3452.6	3475.7
5°	2066.2	2210.1	2332.3	2515.3	2685.2	2892.0	3101.8	3349.1	3443.9	3468.5
7.5°	1450.0	1596.8	1724.8	1936.7	2179.0	2456.0	2769.8	3083.7	3221.9	3260.9
10°	1047.2	1204.1	1360.3	1572.2	1798.6	2098.7	2425.6	2814.0	2973.1	3003.5
12.5°	661.0	829.5	1083.4	1345.2	1584.5	1826.1	2168.2	2590.4	2766.2	2821.9
15°	383.3	509.1	700.8	1042.2	1346.6	1666.3	2039.4	2506.6	2703.3	2760.4
17.5°	256.8	300.2	431.8	692.8	1094.9	1518.7	2006.9	2575.3	2793.0	2866.0
20°	216.2	235.7	282.1	422.4	843.3	1387.1	2015.5	2761.9	3047.5	3138.7
22.5°	190.2	208.3	237.9	303.8	588.7	1223.7	2056.7	3028.8	3397.6	3514.0
25°	167.8	185.9	211.9	251.7	395.6	1034.9	2147.2	3419.3	3861.1	3989.1
27.5°	148.9	165.6	188.0	222.0	304.4	824.4	2227.5	3799.6	4284.2	4388.3
30°	131.6	145.3	167.0	193.1	253.1	635.7	2267.9	4132.3	4592.3	4708.0
32.5°	114.3	127.2	148.3	169.2	208.3	484.5	2239.8	4376.8	4891.7	4965.4
35°	97.6	111.3	128.8	148.3	180.1	391.2	2098.7	4651.6	5201.9	5259.8
37.5°	83.9	95.5	113.5	128.8	162.7	313.1	1928.1	4898.9	5549.8	5633.0
40°	70.9	82.4	100.5	114.3	149.7	246.6	1774.0	5173.7	5916.4	6019.2
42.5°	57.9	71.6	87.5	109.9	128.8	188.0	1587.4	5396.5	6192.0	6320.7
45°	46.3	61.5	78.8	109.2	112.1	143.2	1407.3	5570.0	6435.8	6551.5
47.5°	36.9	52.1	75.9	101.9	91.8	113.5	1304.6	5751.6	6638.2	6730.8
50°	29.7	43.4	79.6	89.7	76.7	96.2	1301.8	5954.1	6743.1	6804.5
52.5°	23.9	35.4	67.3	68.7	65.1	84.6	1379.8	6181.9	6850.1	6900.7
55°	20.3	29.7	44.2	50.6	58.6	76.7	1438.4	6532.6	7105.4	7153.1
57.5°	15.9	25.3	34.0	40.5	52.1	70.1	1446.4	6803.1	7428.6	7459.8
59°	13.7	21.7	30.4	36.2	47.8	65.9	1413.9	6819.8	7449.7	7499.5
60°	11.6	19.5	26.7	34.0	44.2	62.2	1378.4	6699.0	7371.5	7427.2
62.5°	8.7	15.2	19.5	27.5	36.2	53.5	1210.6	6277.3	7072.9	7111.9
65°	5.8	10.8	14.5	20.3	28.2	46.3	986.4	5730.6	6611.4	6699.0
67.5°	3.6	8.0	11.6	15.2	23.1	39.0	702.9	4914.1	5965.6	6022.1
70°	2.2	5.0	8.7	12.3	18.1	31.1	417.3	3884.3	4963.3	4974.9
72.5°	1.4	3.6	5.8	8.7	14.5	28.2	202.5	2531.9	3624.0	3762.0
75°	0.8	2.2	3.6	6.5	11.6	23.1	96.9	1691.6	2636.8	2676.6
77.5°	0.0	0.8	2.2	4.4	8.7	18.1	56.4	1110.8	1797.9	1839.1
80°	0.0	0.0	1.4	3.6	6.5	11.6	34.0	655.2	1089.1	1109.4
82.5°	0.0	0.0	0.8	2.9	4.4	8.7	17.3	287.8	713.1	720.3
85°	0.0	0.0	0.8	2.9	3.6	5.8	6.5	39.0	316.7	322.5
87.5°	0.0	0.0	0.8	3.6	3.6	3.6	3.6	2.2	26.7	33.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)