

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: P651351

Luminaire Tested: **GALN-SA4D-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651351
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-SA4D-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 18482.7 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

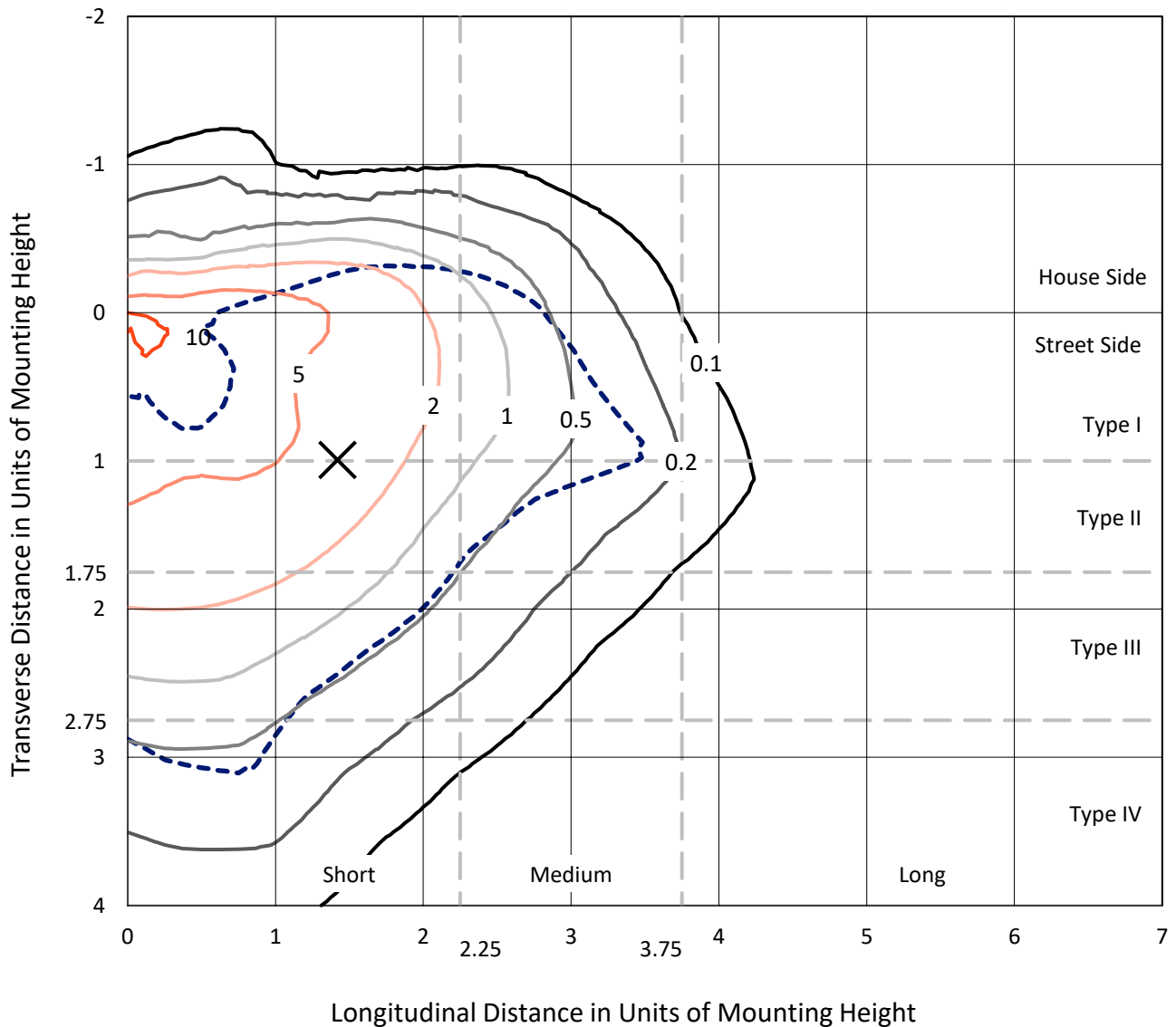
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

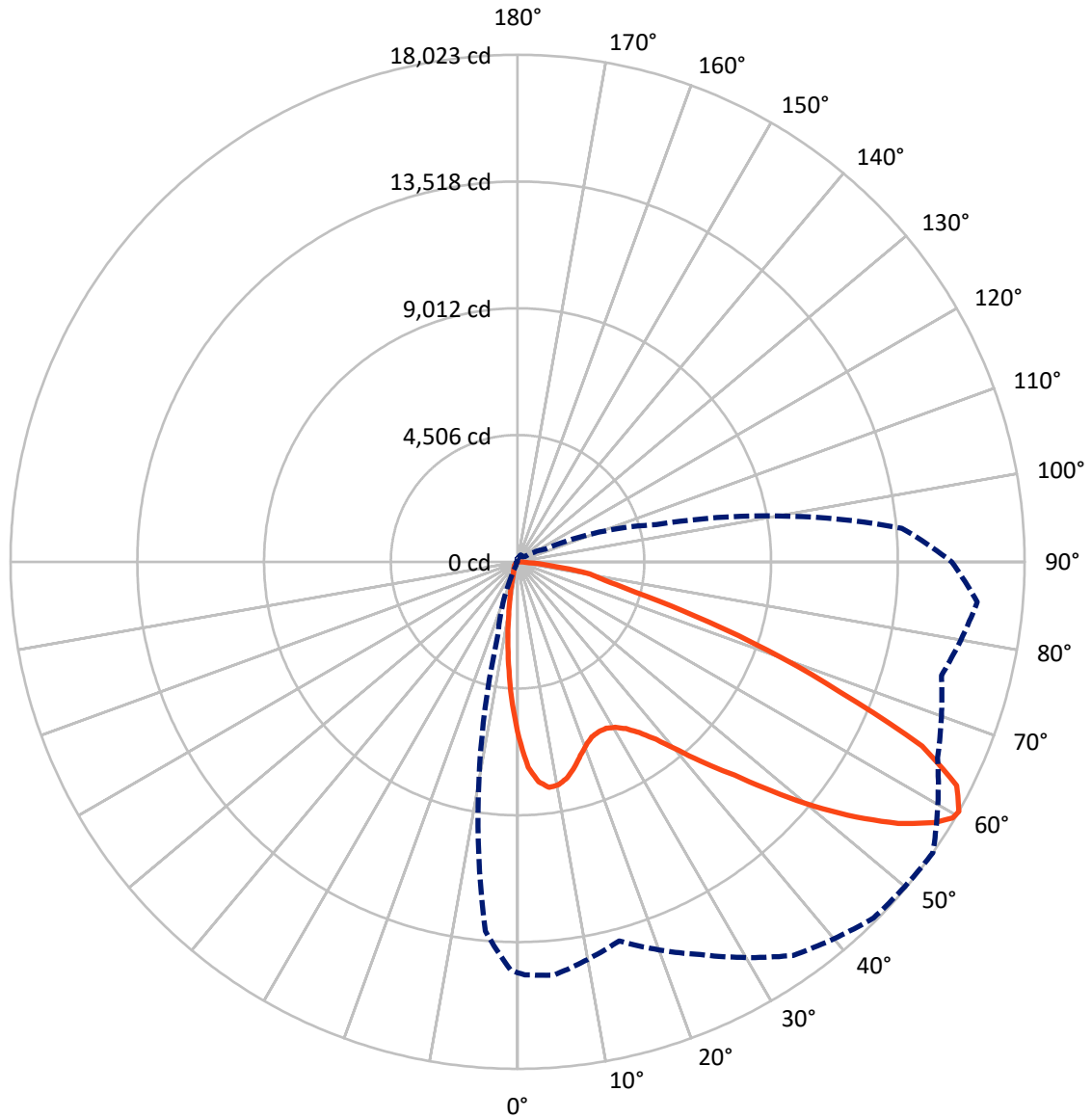
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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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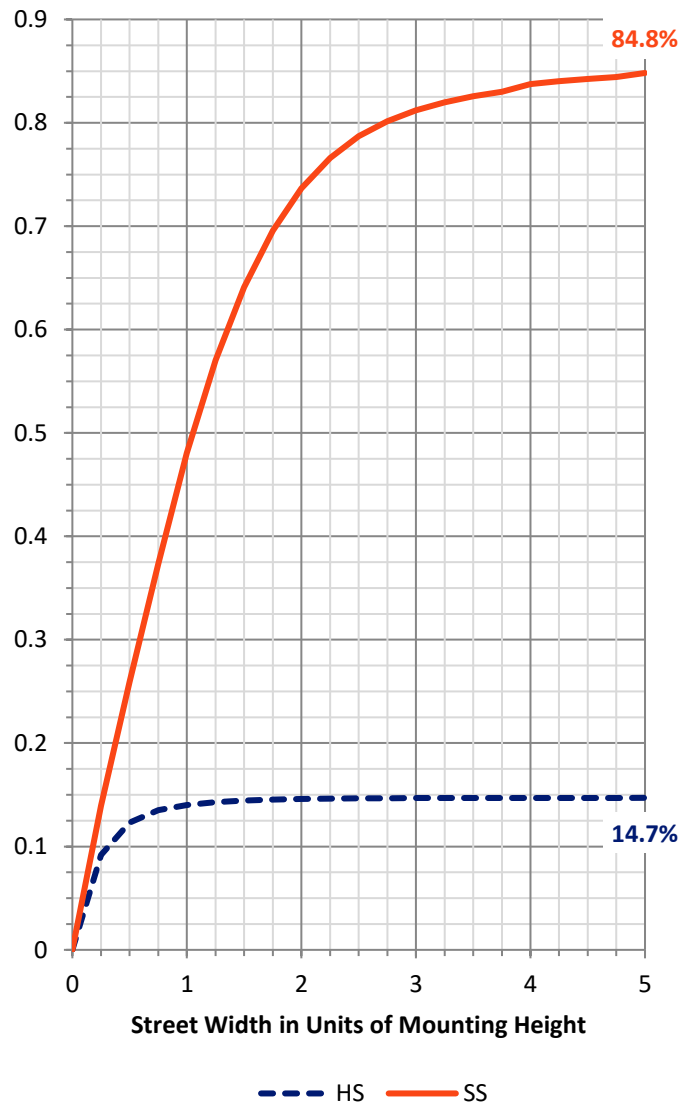
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2743.0	0.0	2743.0
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	15739.7	0.0	15739.7
	% Fixture	85.2	0.0	85.2
Total	Lumens	18482.7	0.0	18482.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.4	2.5
10°-20°	912.6	4.9
20°-30°	1350.8	7.3
30°-40°	2013.5	10.9
40°-50°	2948.8	16.0
50°-60°	4257.2	23.0
60°-70°	4478.3	24.2
70°-80°	1842.2	10.0
80°-90°	215.8	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°	18482.7	100.0
0°-180°	18482.7	100.0

Coefficient of Utilization



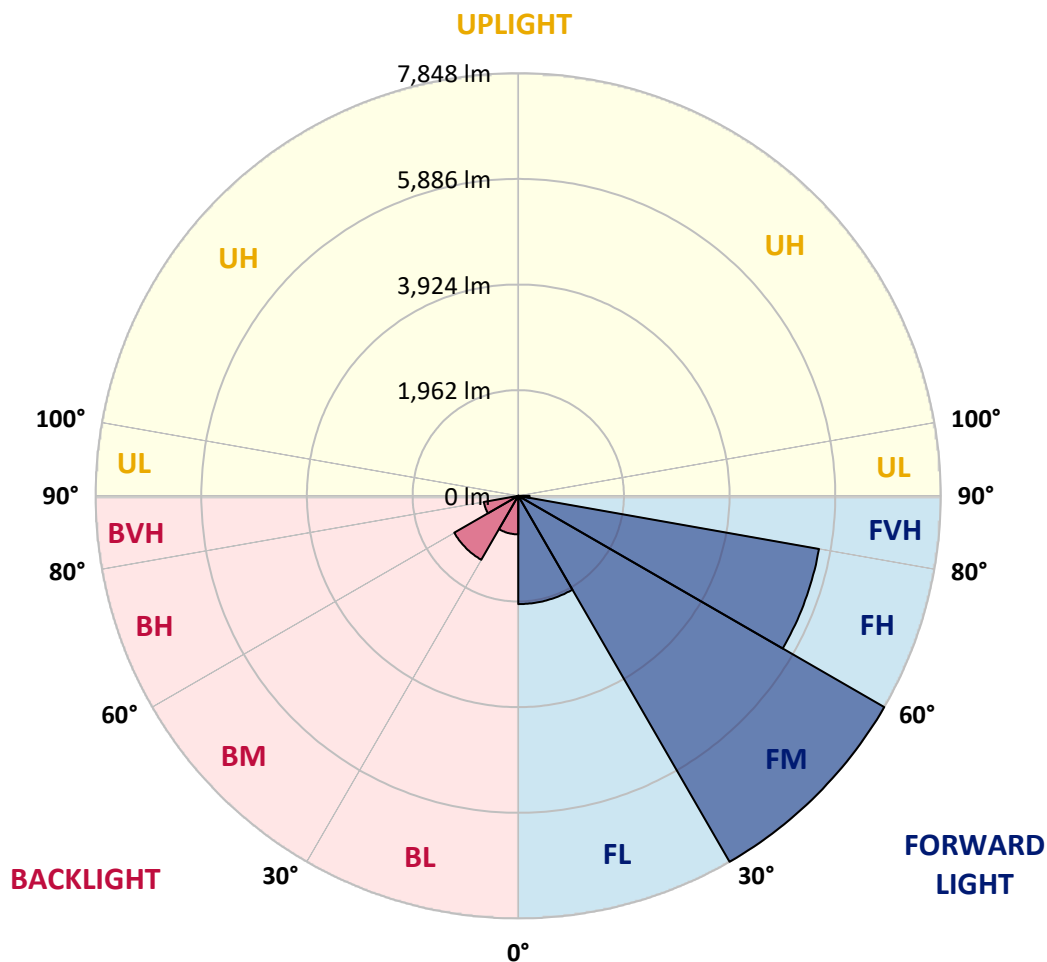
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2011.2	10.9			
FM (30°-60°)	7847.8	42.5			
FH (60°-80°)	5671.3	30.7			G3/7500
FVH (80°-90°)	209.4	1.1			G2/225
BL (0°-30°)	715.7	3.9	B2/1000		
BM (30°-60°)	1371.7	7.4	B2/2500		
BH (60°-80°)	649.2	3.5	B2/1000		G2/1000
BVH (80°-90°)	6.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6258.2	6258.2	6258.2	6258.2	6258.2	6258.2	6258.2	6258.2	6258.2	6258.2	6258.2
2.5°	6837.2	6825.8	6926.8	7091.8	7258.3	7345.0	7328.0	7320.9	7182.9	7081.9	6869.9
5°	6822.9	6881.3	7062.0	7508.7	7847.3	8010.9	8059.2	7855.8	7586.9	7197.1	6716.2
7.5°	6414.6	6487.2	6781.7	7480.2	8082.0	8437.7	8424.9	8099.1	7544.3	6941.0	6255.4
10°	5908.2	5993.6	6339.3	7187.2	7968.2	8437.7	8463.2	8050.7	7360.7	6586.8	5865.6
12.5°	5551.1	5652.1	6034.8	6914.0	7675.1	8137.5	8167.4	7868.6	7222.8	6450.2	5653.5
15°	5430.2	5525.5	5913.9	6776.0	7363.5	7612.6	7605.4	7574.1	7168.7	6482.9	5665.0
17.5°	5637.9	5716.2	6154.4	6838.6	7071.9	7046.3	7083.3	7234.1	7180.0	6757.5	6023.4
20°	6174.2	6253.9	6724.8	7030.7	6848.6	6686.4	6703.4	6955.2	7285.3	7274.0	6583.9
22.5°	6912.6	7047.7	7474.6	7403.4	6818.7	6463.0	6427.5	6754.7	7464.5	7868.6	7340.8
25°	7847.3	7983.9	8316.7	7998.1	6965.2	6410.4	6377.6	6693.5	7682.2	8449.0	8192.9
27.5°	8632.5	8736.4	9067.9	8577.1	7181.5	6433.1	6379.1	6702.0	7858.6	8942.7	8911.4
30°	9261.3	9338.2	9533.1	8847.4	7367.8	6532.7	6470.1	6827.2	7936.9	9183.1	9493.3
32.5°	9767.8	9897.3	9958.4	9136.2	7635.3	6720.5	6613.9	7067.7	8127.5	9480.4	10103.5
35°	10346.8	10496.2	10418.0	9412.1	7988.1	7013.6	6882.7	7457.5	8416.3	9755.0	10812.1
37.5°	11080.9	11253.1	10947.2	9702.4	8360.8	7454.6	7393.4	8005.1	8854.5	10147.7	11571.7
40°	11840.6	11940.2	11460.7	10055.2	8818.9	8096.2	8154.6	8818.9	9427.8	10618.6	12379.8
42.5°	12433.8	12527.7	11988.5	10351.1	9287.0	8857.3	9100.6	9800.5	10085.1	11100.9	12982.9
45°	12887.7	12967.3	12354.2	10674.1	9918.6	9959.9	10419.4	10812.1	10743.8	11395.3	13448.2
47.5°	13240.5	13308.7	12635.9	11021.1	10864.7	11308.5	12011.3	12177.8	11426.6	11714.0	13869.3
50°	13385.6	13405.5	12724.1	11463.6	11938.8	13027.1	13759.8	13658.8	12209.0	12068.2	14317.4
52.5°	13574.8	13570.5	12975.9	11884.7	12948.8	14563.5	15294.8	15065.8	13093.9	12598.9	14821.0
55°	14071.3	14077.0	13515.0	12482.2	13809.6	15804.1	16586.5	16420.1	14027.2	13495.1	15408.5
57.5°	14674.5	14695.8	14281.9	13180.7	14631.8	16703.2	17551.1	17487.1	15289.0	14492.4	15963.4
59°	14752.7	14795.4	14644.6	13673.0	15119.8	16979.2	17881.1	17943.7	15964.8	15149.7	16263.6
60°	14610.4	14681.6	14749.9	13951.8	15405.7	17078.8	17901.0	18023.4	16472.7	15596.3	16400.2
62.5°	13990.2	14102.6	14445.4	14809.7	15762.8	16768.6	17265.1	17521.2	17101.5	16770.0	16413.0
65°	13177.9	13236.2	13731.3	14961.9	15070.0	15320.3	15474.0	15802.6	16346.1	17222.4	15825.4
67.5°	11846.3	12018.4	12624.5	14078.4	13025.7	12729.7	12691.4	12364.1	13775.4	16144.1	14377.1
70°	9786.3	9863.2	10610.1	11541.9	9830.4	9375.1	9557.3	9434.9	10678.3	13897.7	11571.7
72.5°	7400.5	7574.1	8303.9	9200.2	6689.2	6098.8	6601.0	6555.5	8020.8	11169.2	7949.7
75°	5265.2	5377.6	6308.0	7200.0	4684.7	3969.2	4149.8	4319.1	5599.5	8818.9	4697.6
77.5°	3617.7	3714.5	4413.0	4761.6	3417.2	3273.5	2994.6	3158.3	3668.9	5232.4	2556.5
80°	2182.3	2178.0	2637.5	2722.9	2380.0	2764.2	2318.9	2603.4	2217.9	2239.2	990.2
82.5°	1416.9	1402.7	1613.3	1758.4	1324.5	1392.8	934.7	1347.2	1445.4	624.5	313.0
85°	634.5	661.5	775.3	1022.9	580.5	308.7	190.7	414.0	616.0	314.4	0.0
87.5°	65.4	51.2	136.6	248.9	79.6	8.5	28.4	14.2	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°	6258.2	6258.2	6258.2	6258.2	6258.2	6258.2	6258.2	6258.2	6258.2	6258.2	6258.2
2.5°	6771.7	6689.2	6443.2	6212.6	6014.9	5773.0	5616.5	5370.5	5221.1	5175.5	5182.7
5°	6500.0	6262.4	5794.4	5420.2	5003.4	4765.9	4404.5	4057.3	3869.6	3799.9	3768.6
7.5°	5931.0	5676.3	5111.5	4524.0	4077.3	3660.5	3391.6	3085.7	2876.6	2704.4	2674.5
10°	5508.5	5174.2	4474.2	3842.5	3489.7	3176.7	2907.8	2602.0	2355.9	2159.5	2105.5
12.5°	5255.2	4881.1	4100.0	3570.8	3236.5	2915.0	2565.0	2210.7	1958.9	1747.0	1648.9
15°	5209.7	4775.8	3994.8	3375.9	2963.3	2575.0	2109.7	1727.1	1468.1	1267.6	1206.4
17.5°	5484.2	4965.0	3979.1	3172.5	2606.3	2055.7	1572.0	1254.8	963.1	850.8	806.6
20°	5973.6	5299.3	3977.7	2936.4	2239.2	1583.4	1104.0	818.0	700.0	645.9	620.2
22.5°	6640.9	5754.5	4053.1	2732.9	1857.9	1168.0	788.1	651.6	583.3	539.2	529.2
25°	7456.1	6428.9	4238.1	2594.9	1566.4	916.2	650.2	557.7	500.7	480.9	472.3
27.5°	8180.2	7074.7	4441.5	2452.6	1357.2	810.9	603.2	510.7	465.2	449.5	436.7
30°	8804.7	7660.9	4539.6	2264.8	1189.3	742.6	611.7	546.3	486.5	439.6	418.2
32.5°	9325.3	8110.4	4603.6	2094.1	1047.0	607.5	483.7	422.5	395.5	378.4	364.2
35°	9977.0	8597.0	4565.2	1997.4	974.5	553.4	441.0	364.2	318.7	284.5	270.3
37.5°	10659.8	9083.6	4498.3	1917.7	941.8	513.6	419.7	345.7	295.9	260.4	241.9
40°	11366.9	9534.5	4420.1	1843.7	911.9	487.9	406.9	330.1	280.2	241.9	221.9
42.5°	12014.2	9974.1	4388.8	1795.4	863.5	492.2	397.0	322.9	264.6	224.8	207.7
45°	12537.7	10391.0	4431.5	1769.8	810.9	485.1	399.7	314.4	251.8	213.4	196.3
47.5°	13096.8	10979.9	4569.5	1744.1	759.7	450.9	421.1	313.0	246.1	206.3	187.8
50°	13746.9	11733.9	4885.4	1681.6	697.1	414.0	448.2	311.6	239.0	197.7	179.2
52.5°	14613.3	12590.4	5211.1	1572.0	606.0	378.4	428.2	307.3	224.8	187.8	169.3
55°	15391.5	13492.2	5487.1	1442.6	490.8	327.2	385.5	288.8	200.6	170.7	153.7
57.5°	15713.0	14001.6	5478.6	1263.3	392.7	287.4	317.2	264.6	175.0	150.8	136.6
59°	15594.9	13937.6	5295.0	1131.0	358.5	266.0	263.1	261.8	163.6	136.6	125.2
60°	15428.5	13704.3	5097.3	1065.5	337.2	251.8	241.9	258.9	153.7	128.0	116.6
62.5°	14791.2	12736.9	4441.5	954.6	308.7	213.4	193.5	219.1	136.6	110.9	101.0
65°	13867.8	11250.2	3760.0	923.2	300.2	176.4	160.8	156.5	116.6	93.9	85.4
67.5°	12066.8	9520.3	3045.8	902.0	303.0	147.9	140.9	118.1	96.7	78.2	72.6
70°	9661.2	7423.3	2493.9	877.8	305.9	120.9	118.1	93.9	78.2	65.4	59.7
72.5°	5869.8	4400.2	1963.2	762.5	297.3	96.7	105.3	71.1	56.9	46.9	44.1
75°	3629.2	3011.7	1217.8	593.2	196.3	71.1	74.0	44.1	38.4	29.9	29.9
77.5°	2102.7	1902.1	435.3	213.4	86.8	42.6	32.7	22.8	21.4	12.8	12.8
80°	872.1	698.5	150.8	72.6	46.9	19.9	7.1	1.4	0.0	0.0	0.0
82.5°	254.7	226.2	41.3	32.7	14.2	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°	6258.2	6258.2	6258.2	6258.2	6258.2	6258.2	6258.2	6258.2	6258.2	6258.2	6258.2
2.5°	5061.7	5014.8	4993.4	5066.0	4999.2	5084.5	5019.1	5047.5	5131.4	5168.4	5263.7
5°	3788.5	3740.1	3717.4	3826.9	3821.2	3875.2	3869.6	3919.4	3962.0	3866.7	3964.9
7.5°	2639.0	2606.3	2660.3	2745.7	2836.8	2806.8	2806.8	2740.0	2762.8	2748.6	2744.3
10°	2007.3	1894.9	1866.5	1863.7	1897.8	1904.9	1866.5	1774.0	1808.2	1818.2	1877.9
12.5°	1579.1	1492.4	1360.1	1300.3	1284.6	1297.4	1170.8	1089.8	1128.1	1105.4	1163.7
15°	1132.4	1061.3	983.0	916.2	897.7	872.1	734.1	637.3	626.0	630.2	640.2
17.5°	808.0	759.7	759.7	688.5	650.2	573.3	503.6	461.0	456.7	461.0	468.0
20°	596.1	570.5	567.6	549.2	506.5	455.2	406.9	398.3	395.5	402.6	405.4
22.5°	513.6	486.5	463.8	462.4	422.5	379.9	357.1	345.7	347.2	349.9	357.1
25°	459.5	431.1	406.9	392.7	364.2	334.3	313.0	307.3	307.3	311.6	313.0
27.5°	421.1	385.5	364.2	344.3	318.7	293.1	274.6	270.3	267.4	270.3	277.4
30°	394.1	358.5	331.4	301.6	281.7	257.5	241.9	236.2	234.7	236.2	241.9
32.5°	337.2	315.8	294.5	267.4	243.3	227.7	210.6	200.6	200.6	203.4	209.2
35°	254.7	243.3	241.9	234.7	214.8	197.7	177.9	167.9	167.9	173.6	176.4
37.5°	224.8	203.4	200.6	197.7	189.2	166.4	147.9	139.4	138.0	142.3	147.9
40°	204.9	180.6	167.9	165.0	166.4	140.9	120.9	112.4	112.4	113.8	119.5
42.5°	189.2	160.8	138.0	135.1	140.9	118.1	98.1	89.7	89.7	89.7	96.7
45°	176.4	143.7	116.6	102.4	110.9	96.7	79.6	71.1	68.3	71.1	74.0
47.5°	167.9	130.9	102.4	82.5	82.5	76.8	64.0	54.1	51.2	52.6	56.9
50°	160.8	119.5	86.8	66.9	59.7	61.1	48.4	41.3	38.4	38.4	42.6
52.5°	149.4	108.2	75.4	56.9	45.5	41.3	35.6	29.9	28.4	29.9	32.7
55°	135.1	98.1	65.4	46.9	35.6	28.4	25.6	21.4	19.9	21.4	25.6
57.5°	119.5	82.5	52.6	37.0	24.2	18.5	17.1	14.2	11.4	12.8	15.6
59°	109.6	74.0	45.5	29.9	18.5	12.8	12.8	9.9	7.1	8.5	12.8
60°	105.3	68.3	38.4	25.6	15.6	9.9	9.9	7.1	4.3	5.7	9.9
62.5°	89.7	56.9	29.9	15.6	7.1	1.4	4.3	1.4	0.0	1.4	4.3
65°	75.4	45.5	19.9	7.1	0.0	0.0	0.0	0.0	0.0	0.0	1.4
67.5°	62.6	34.1	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	49.8	22.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	34.1	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	21.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.5	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°	6258.2	6258.2	6258.2	6258.2	6258.2	6258.2	6258.2	6258.2	6258.2	6258.2
2.5°	5269.5	5472.9	5598.0	5834.3	6076.1	6262.4	6495.7	6704.9	6791.7	6837.2
5°	4064.5	4347.5	4588.0	4947.9	5282.2	5689.1	6101.7	6588.2	6774.6	6822.9
7.5°	2852.4	3141.2	3393.0	3809.8	4286.4	4831.3	5448.7	6066.1	6337.9	6414.6
10°	2059.9	2368.7	2676.0	3092.8	3538.1	4128.5	4771.5	5535.5	5848.5	5908.2
12.5°	1300.3	1631.8	2131.1	2646.1	3117.0	3592.2	4265.0	5095.9	5441.6	5551.1
15°	754.0	1001.5	1378.6	2050.0	2649.0	3277.7	4011.8	4930.9	5317.8	5430.2
17.5°	505.0	590.4	849.3	1362.9	2153.9	2987.6	3947.8	5066.0	5494.3	5637.9
20°	425.4	463.8	554.8	830.8	1658.8	2728.6	3964.9	5433.0	5995.0	6174.2
22.5°	374.2	409.7	468.0	597.5	1158.1	2407.1	4046.0	5958.0	6683.5	6912.6
25°	330.1	365.6	416.8	495.1	778.2	2035.8	4223.8	6726.2	7595.5	7847.3
27.5°	293.1	325.8	369.9	436.7	599.0	1621.8	4381.7	7474.6	8427.7	8632.5
30°	258.9	285.9	328.7	379.9	498.0	1250.5	4461.4	8128.9	9033.8	9261.3
32.5°	224.8	250.4	291.7	332.9	409.7	953.2	4405.9	8609.8	9622.7	9767.8
35°	192.1	219.1	253.2	291.7	354.2	769.7	4128.5	9150.4	10233.0	10346.8
37.5°	165.0	187.8	223.4	253.2	320.1	616.0	3792.7	9636.9	10917.3	11080.9
40°	139.4	162.1	197.7	224.8	294.5	485.1	3489.7	10177.5	11638.6	11840.6
42.5°	113.8	140.9	172.2	216.2	253.2	369.9	3122.7	10615.7	12180.6	12433.8
45°	91.1	120.9	155.1	214.8	220.5	281.7	2768.5	10957.1	12660.1	12887.7
47.5°	72.6	102.4	149.4	200.6	180.6	223.4	2566.4	11314.2	13058.4	13240.5
50°	58.4	85.4	156.5	176.4	150.8	189.2	2560.8	11712.5	13264.7	13385.6
52.5°	46.9	69.7	132.3	135.1	128.0	166.4	2714.4	12160.7	13475.2	13574.8
55°	39.9	58.4	86.8	99.6	115.2	150.8	2829.6	12850.6	13977.4	14071.3
57.5°	31.3	49.8	66.9	79.6	102.4	138.0	2845.3	13382.7	14613.3	14674.5
59°	27.0	42.6	59.7	71.1	93.9	129.4	2781.3	13415.5	14654.6	14752.7
60°	22.8	38.4	52.6	66.9	86.8	122.4	2711.6	13177.9	14500.9	14610.4
62.5°	17.1	29.9	38.4	54.1	71.1	105.3	2381.5	12348.5	13913.4	13990.2
65°	11.4	21.4	28.4	39.9	55.5	91.1	1940.4	11272.9	13005.7	13177.9
67.5°	7.1	15.6	22.8	29.9	45.5	76.8	1382.8	9666.8	11735.3	11846.3
70°	4.3	9.9	17.1	24.2	35.6	61.1	820.9	7641.0	9763.6	9786.3
72.5°	2.9	7.1	11.4	17.1	28.4	55.5	398.3	4980.7	7128.8	7400.5
75°	1.4	4.3	7.1	12.8	22.8	45.5	190.7	3327.6	5187.0	5265.2
77.5°	0.0	1.4	4.3	8.5	17.1	35.6	110.9	2185.2	3536.7	3617.7
80°	0.0	0.0	2.9	7.1	12.8	22.8	66.9	1288.9	2142.5	2182.3
82.5°	0.0	0.0	1.4	5.7	8.5	17.1	34.1	566.2	1402.7	1416.9
85°	0.0	0.0	1.4	5.7	7.1	11.4	12.8	76.8	623.1	634.5
87.5°	0.0	0.0	1.4	7.1	7.1	7.1	7.1	4.3	52.6	65.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)