

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: P651076

Luminaire Tested: **GALN-SA8C-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651076
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-SA8C-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA 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: 34287.5 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

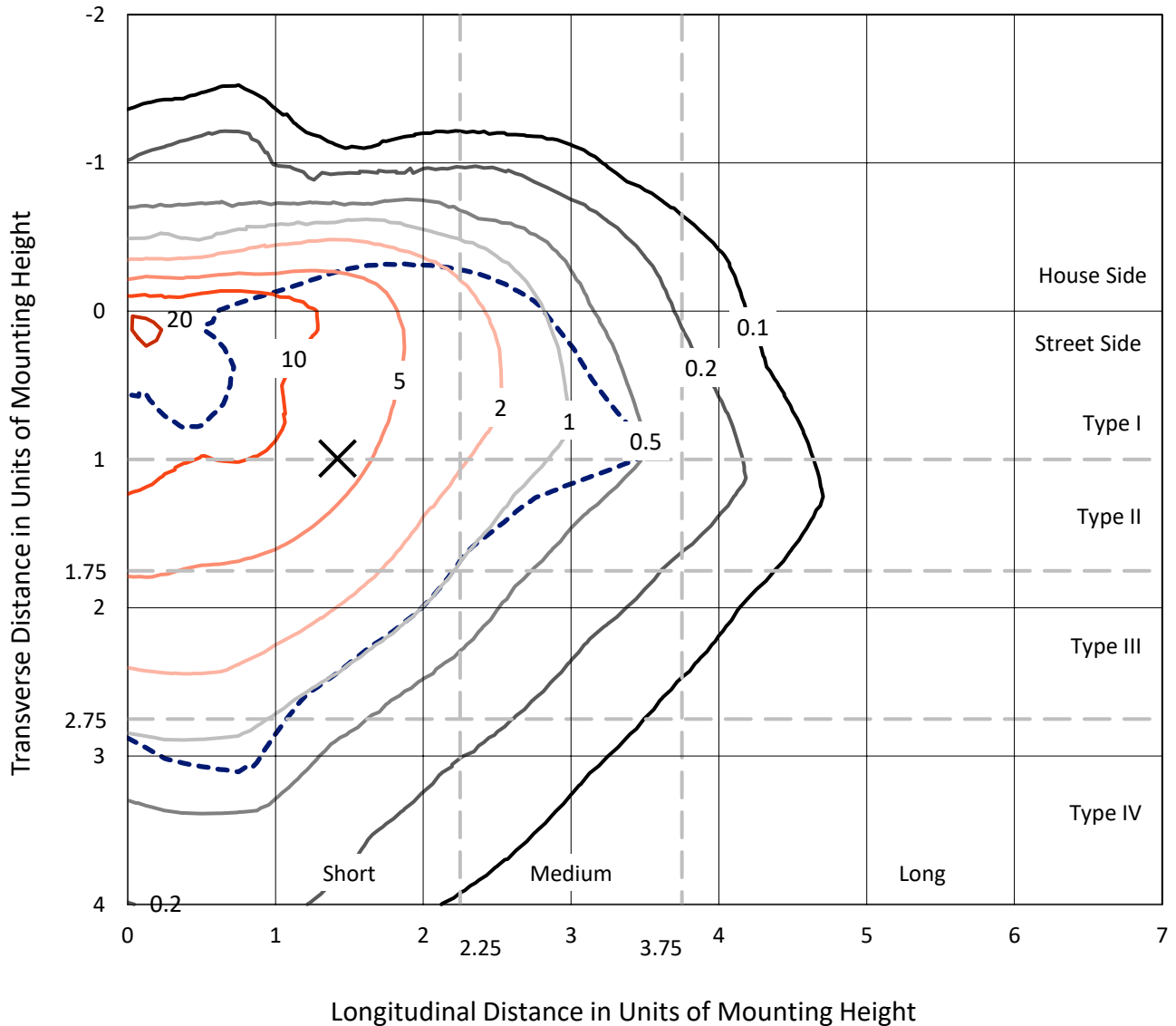
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

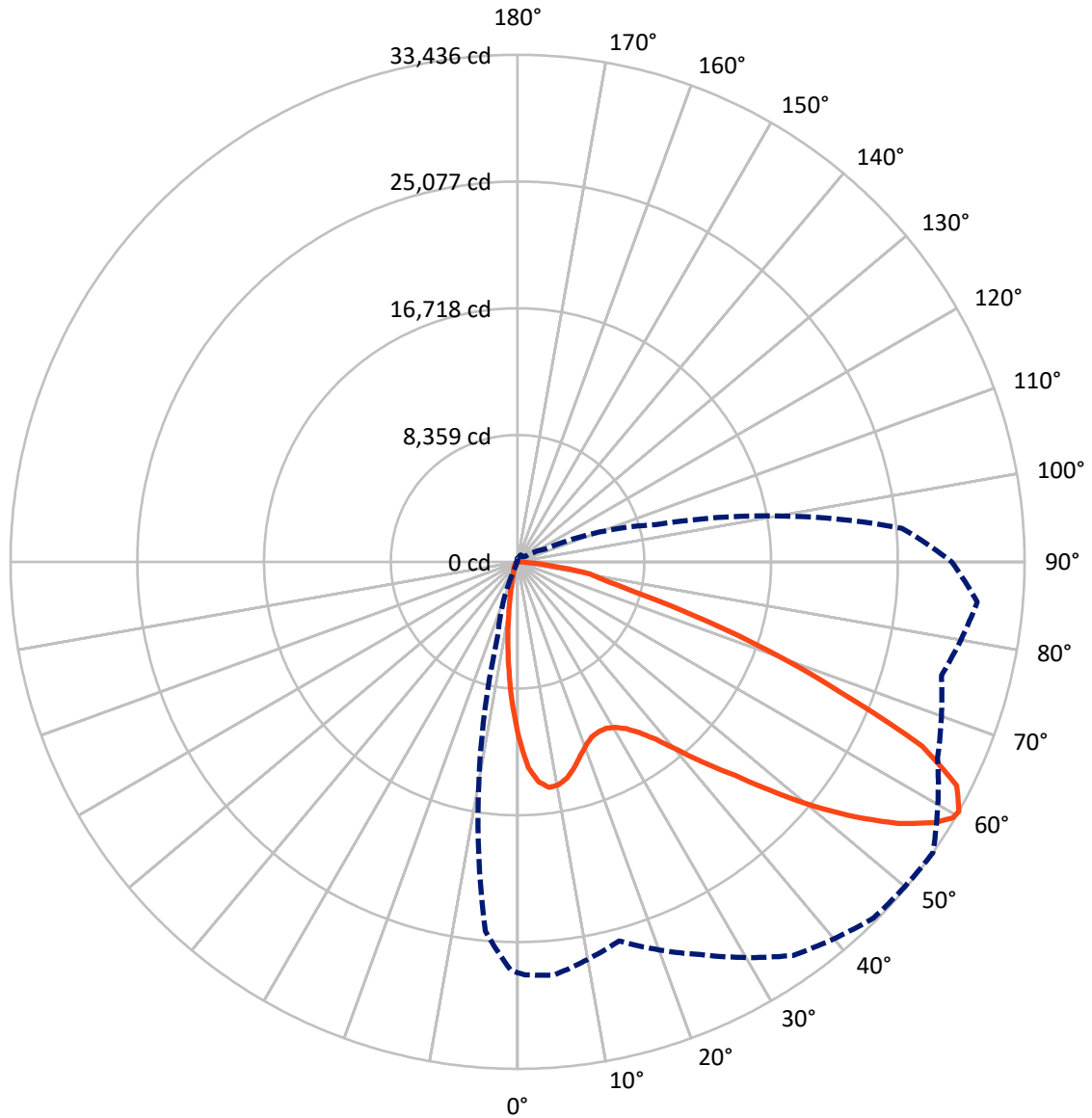
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24 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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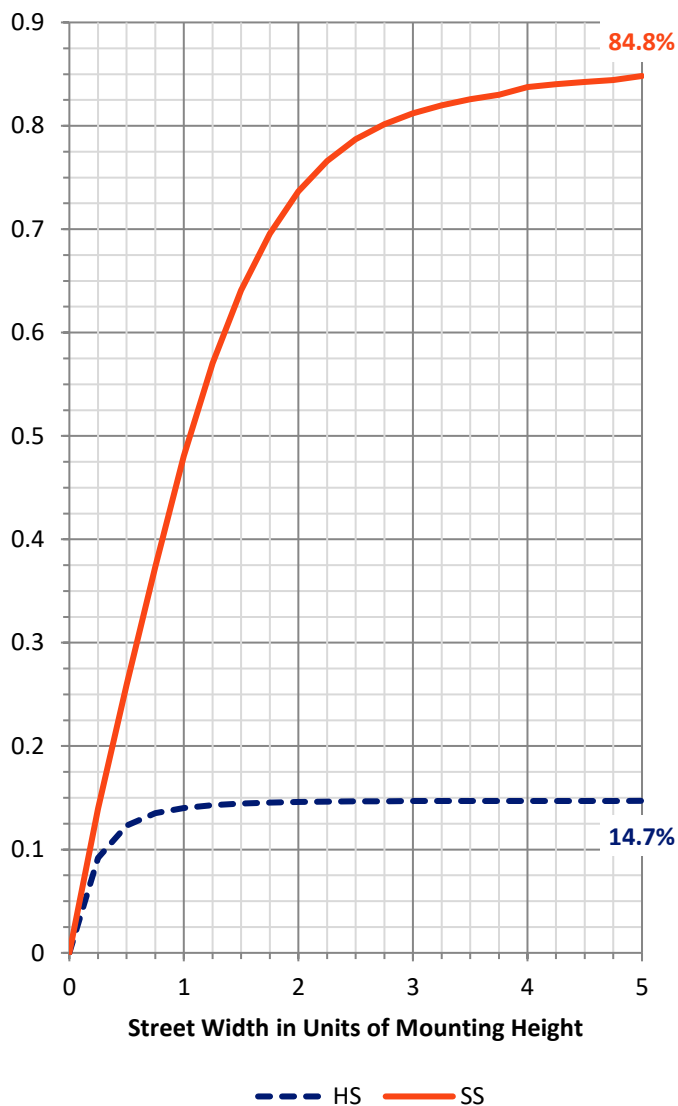
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5088.6	0.0	5088.6
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	29199.0	0.0	29199.0
	% Fixture	85.2	0.0	85.2
Total	Lumens	34287.5	0.0	34287.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	859.7	2.5
10°-20°	1693.0	4.9
20°-30°	2505.9	7.3
30°-40°	3735.3	10.9
40°-50°	5470.4	16.0
50°-60°	7897.6	23.0
60°-70°	8307.8	24.2
70°-80°	3417.6	10.0
80°-90°	400.3	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°	34287.5	100.0
0°-180°	34287.5	100.0

Coefficient of Utilization

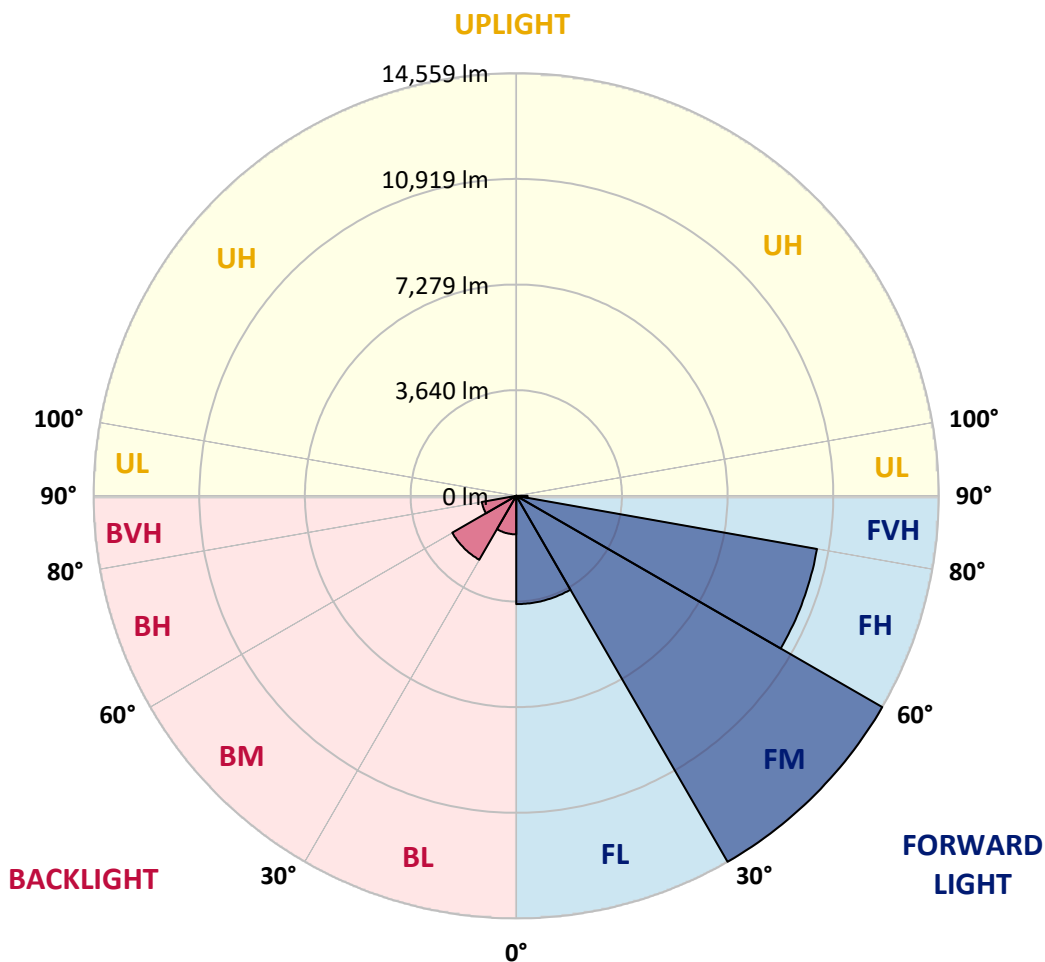


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3731.0	10.9			
FM (30°-60°)	14558.5	42.5			
FH (60°-80°)	10521.0	30.7			G4/12000
FVH (80°-90°)	388.5	1.1			G3/500
BL (0°-30°)	1327.6	3.9	B3/2500		
BM (30°-60°)	2544.7	7.4	B3/5000		
BH (60°-80°)	1204.4	3.5	B3/2500		G3/2500
BVH (80°-90°)	11.8	0.0			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11609.7	11609.7	11609.7	11609.7	11609.7	11609.7	11609.7	11609.7	11609.7	11609.7	11609.7
2.5°	12683.8	12662.7	12850.1	13156.3	13465.0	13626.0	13594.3	13581.1	13325.1	13137.8	12744.5
5°	12657.4	12765.6	13100.8	13929.5	14557.6	14861.1	14950.9	14573.4	14074.6	13351.5	12459.5
7.5°	11900.0	12034.5	12580.9	13876.8	14993.1	15652.9	15629.1	15024.7	13995.5	12876.5	11604.4
10°	10960.4	11118.8	11760.1	13333.0	14781.9	15652.9	15700.4	14935.0	13655.1	12219.3	10881.3
12.5°	10298.0	10485.4	11195.3	12826.3	14238.3	15096.0	15151.5	14597.2	13399.1	11966.0	10488.0
15°	10073.7	10250.5	10971.0	12570.3	13660.3	14122.2	14109.0	14050.9	13298.7	12026.6	10509.1
17.5°	10459.0	10604.2	11417.0	12686.5	13119.3	13071.7	13140.4	13420.2	13319.8	12536.0	11174.2
20°	11454.0	11601.8	12475.3	13042.7	12704.9	12404.1	12435.7	12902.9	13515.1	13494.0	12214.0
22.5°	12823.7	13074.4	13866.2	13734.2	12649.5	11989.7	11923.7	12530.7	13847.7	14597.2	13618.1
25°	14557.6	14811.0	15428.6	14837.3	12921.4	11892.1	11831.4	12417.3	14251.5	15674.0	15199.0
27.5°	16014.4	16207.1	16822.0	15911.6	13322.5	11934.3	11834.0	12433.1	14578.7	16589.7	16531.7
30°	17181.0	17323.4	17685.1	16413.0	13668.2	12119.1	12002.9	12665.4	14723.9	17035.8	17611.1
32.5°	18120.5	18360.6	18474.2	16948.7	14164.4	12467.4	12269.4	13111.4	15077.5	17587.4	18743.4
35°	19194.6	19471.8	19326.6	17460.7	14818.9	13011.1	12768.2	13834.4	15613.2	18096.7	20057.6
37.5°	20556.5	20875.8	20308.4	17999.1	15510.4	13829.2	13715.7	14850.5	16426.2	18825.1	21466.9
40°	21965.7	22150.5	21261.1	18653.6	16360.1	15019.5	15127.7	16360.1	17489.8	19698.7	22966.0
42.5°	23066.3	23240.4	22240.2	19202.6	17228.5	16431.5	16882.7	18181.2	18709.1	20593.4	24085.0
45°	23908.2	24056.0	22918.5	19801.6	18400.2	18476.8	19329.2	20057.6	19930.9	21139.7	24948.0
47.5°	24562.7	24689.4	23441.0	20445.6	20155.3	20978.7	22282.5	22591.2	21197.7	21730.9	25729.2
50°	24831.9	24868.8	23604.7	21266.4	22147.8	24166.8	25525.9	25338.6	22649.3	22388.0	26560.5
52.5°	25182.9	25175.0	24071.8	22047.6	24021.7	27017.1	28373.7	27948.7	24290.9	23372.4	27494.8
55°	26104.0	26114.5	25072.1	23156.0	25618.4	29318.4	30770.0	30461.2	26022.1	25035.1	28584.7
57.5°	27223.0	27262.5	26494.5	24451.8	27143.8	30986.4	32559.3	32440.6	28363.1	26885.2	29614.0
59°	27368.1	27447.3	27167.6	25365.0	28049.0	31498.4	33171.6	33287.8	29616.7	28104.5	30170.9
60°	27104.2	27236.1	27362.9	25882.3	28579.5	31683.2	33208.6	33435.6	30558.8	28933.2	30424.3
62.5°	25953.5	26162.0	26798.0	27473.7	29241.9	31107.8	32028.9	32503.9	31725.4	31110.4	30448.0
65°	24446.5	24554.8	25473.2	27756.1	27956.7	28421.2	28706.2	29315.8	30323.9	31949.7	29358.0
67.5°	21976.3	22295.7	23419.9	26117.2	24164.2	23615.2	23544.0	22936.9	25555.0	29949.2	26671.4
70°	18154.8	18297.3	19682.8	21411.5	18236.6	17392.0	17729.9	17502.9	19809.6	25781.9	21466.9
72.5°	13728.9	14050.9	15404.8	17067.5	12409.4	11314.1	12245.7	12161.3	14879.6	20720.1	14747.6
75°	9767.5	9976.0	11702.0	13356.8	8690.7	7363.3	7698.4	8012.5	10387.8	16360.1	8714.5
77.5°	6711.4	6890.8	8186.7	8833.3	6339.3	6072.7	5555.5	5858.9	6806.4	9706.8	4742.6
80°	4048.5	4040.6	4893.0	5051.4	4415.3	5127.9	4301.8	4829.7	4114.4	4154.0	1836.8
82.5°	2628.6	2602.2	2992.8	3262.0	2457.1	2583.7	1733.9	2499.3	2681.4	1158.6	580.6
85°	1177.1	1227.2	1438.4	1897.5	1076.8	572.7	353.6	768.0	1142.8	583.2	0.0
87.5°	121.4	95.0	253.4	461.9	147.8	15.8	52.8	26.4	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°	11609.7	11609.7	11609.7	11609.7	11609.7	11609.7	11609.7	11609.7	11609.7	11609.7	11609.7
2.5°	12562.4	12409.4	11952.8	11525.2	11158.4	10709.7	10419.4	9962.8	9685.7	9601.3	9614.5
5°	12058.3	11617.6	10749.3	10055.2	9281.9	8841.2	8170.8	7526.9	7178.5	7049.2	6991.1
7.5°	11002.6	10530.2	9482.5	8392.5	7563.9	6790.6	6291.8	5724.4	5336.4	5017.1	4961.6
10°	10218.8	9598.7	8300.2	7128.4	6473.8	5893.2	5394.4	4827.0	4370.4	4006.3	3905.9
12.5°	9749.0	9055.0	7606.1	6624.3	6004.1	5407.6	4758.4	4101.2	3634.1	3240.9	3058.8
15°	9664.6	8859.7	7410.8	6262.8	5497.4	4776.9	3913.8	3204.0	2723.6	2351.5	2238.0
17.5°	10174.0	9210.7	7381.7	5885.3	4834.9	3813.6	2916.3	2327.7	1786.7	1578.2	1496.4
20°	11081.9	9830.9	7379.1	5447.2	4154.0	2937.4	2048.0	1517.5	1298.5	1198.2	1150.7
22.5°	12319.6	10675.4	7519.0	5069.8	3446.8	2166.8	1462.1	1208.8	1082.0	1000.2	981.8
25°	13831.8	11926.4	7862.1	4813.8	2905.7	1699.7	1206.1	1034.5	929.0	892.0	876.2
27.5°	15175.2	13124.6	8239.4	4549.9	2517.8	1504.3	1119.0	947.5	863.0	833.9	810.2
30°	16333.8	14211.9	8421.6	4201.6	2206.4	1377.6	1134.8	1013.4	902.6	815.5	775.9
32.5°	17299.7	15045.8	8540.4	3884.8	1942.5	1126.9	897.3	783.8	733.7	702.0	675.7
35°	18508.5	15948.5	8469.0	3705.4	1807.8	1026.6	818.1	675.7	591.1	527.8	501.4
37.5°	19775.3	16851.0	8345.0	3557.6	1747.1	952.8	778.5	641.3	548.9	483.0	448.7
40°	21086.9	17687.7	8199.9	3420.3	1691.7	905.3	754.8	612.2	519.9	448.7	411.7
42.5°	22287.8	18503.2	8141.8	3330.6	1601.9	913.2	736.3	599.1	490.9	417.0	385.3
45°	23258.9	19276.5	8221.0	3283.1	1504.3	900.0	741.6	583.2	467.1	395.9	364.2
47.5°	24296.2	20369.0	8477.0	3235.6	1409.3	836.6	781.2	580.6	456.6	382.7	348.3
50°	25502.2	21767.9	9062.9	3119.5	1293.2	768.0	831.3	577.9	443.4	366.8	332.5
52.5°	27109.5	23356.6	9667.2	2916.3	1124.2	702.0	794.4	570.0	417.0	348.3	314.0
55°	28553.1	25029.8	10179.2	2676.1	910.6	607.0	715.2	535.7	372.1	316.7	285.0
57.5°	29149.6	25974.6	10163.4	2343.6	728.4	533.1	588.5	490.9	324.6	279.7	253.4
59°	28930.5	25855.9	9823.0	2098.1	665.1	493.5	488.3	485.6	303.5	253.4	232.3
60°	28621.8	25423.1	9456.1	1976.8	625.5	467.1	448.7	480.3	285.0	237.5	216.4
62.5°	27439.4	23628.4	8239.4	1770.9	572.7	395.9	358.9	406.5	253.4	205.9	187.4
65°	25726.5	20870.5	6975.3	1712.8	556.8	327.2	298.2	290.3	216.4	174.2	158.4
67.5°	22385.4	17661.3	5650.4	1673.3	562.1	274.5	261.3	219.1	179.5	145.2	134.6
70°	17922.6	13771.1	4626.4	1628.3	567.4	224.3	219.1	174.2	145.2	121.4	110.8
72.5°	10889.2	8162.9	3642.0	1414.6	551.6	179.5	195.3	132.0	105.5	87.1	81.8
75°	6732.5	5587.1	2259.1	1100.5	364.2	132.0	137.3	81.8	71.2	55.4	55.4
77.5°	3900.6	3528.6	807.6	395.9	161.0	79.1	60.7	42.2	39.6	23.7	23.7
80°	1617.8	1295.8	279.7	134.6	87.1	36.9	13.2	2.6	0.0	0.0	0.0
82.5°	472.4	419.7	76.5	60.7	26.4	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°	11609.7	11609.7	11609.7	11609.7	11609.7	11609.7	11609.7	11609.7	11609.7	11609.7	11609.7
2.5°	9390.1	9303.1	9263.4	9398.1	9274.0	9432.4	9311.0	9363.8	9519.4	9588.1	9764.9
5°	7028.1	6938.3	6896.1	7099.4	7088.8	7189.1	7178.5	7270.9	7350.1	7173.2	7355.4
7.5°	4895.6	4834.9	4935.2	5093.6	5262.5	5207.1	5207.1	5083.0	5125.2	5098.9	5090.9
10°	3723.9	3515.4	3462.6	3457.3	3520.7	3533.8	3462.6	3291.0	3354.4	3372.8	3483.7
12.5°	2929.5	2768.5	2523.0	2412.2	2383.1	2406.9	2172.1	2021.6	2092.8	2050.6	2158.8
15°	2100.7	1968.8	1823.6	1699.7	1665.3	1617.8	1361.8	1182.4	1161.3	1169.2	1187.7
17.5°	1499.1	1409.3	1409.3	1277.4	1206.1	1063.6	934.3	855.1	847.1	855.1	868.2
20°	1105.8	1058.3	1053.0	1018.7	939.6	844.5	754.8	739.0	733.7	746.9	752.2
22.5°	952.8	902.6	860.3	857.7	783.8	704.7	662.5	641.3	644.0	649.3	662.5
25°	852.4	799.7	754.8	728.4	675.7	620.2	580.6	570.0	570.0	577.9	580.6
27.5°	781.2	715.2	675.7	638.7	591.1	543.7	509.4	501.4	496.2	501.4	514.6
30°	731.1	665.1	614.9	559.5	522.5	477.7	448.7	438.1	435.5	438.1	448.7
32.5°	625.5	585.9	546.3	496.2	451.3	422.3	390.6	372.1	372.1	377.4	388.0
35°	472.4	451.3	448.7	435.5	398.5	366.8	329.9	311.4	311.4	322.0	327.2
37.5°	417.0	377.4	372.1	366.8	351.0	308.8	274.5	258.6	256.0	263.9	274.5
40°	380.0	335.1	311.4	306.1	308.8	261.3	224.3	208.5	208.5	211.1	221.7
42.5°	351.0	298.2	256.0	250.7	261.3	219.1	182.1	166.3	166.3	166.3	179.5
45°	327.2	266.6	216.4	190.0	205.9	179.5	147.8	132.0	126.7	132.0	137.3
47.5°	311.4	242.8	190.0	153.1	153.1	142.5	118.7	100.2	95.0	97.6	105.5
50°	298.2	221.7	161.0	124.0	110.8	113.5	89.7	76.5	71.2	71.2	79.1
52.5°	277.1	200.6	139.9	105.5	84.4	76.5	66.0	55.4	52.8	55.4	60.7
55°	250.7	182.1	121.4	87.1	66.0	52.8	47.5	39.6	36.9	39.6	47.5
57.5°	221.7	153.1	97.6	68.6	44.8	34.3	31.7	26.4	21.1	23.7	29.0
59°	203.2	137.3	84.4	55.4	34.3	23.7	23.7	18.5	13.2	15.8	23.7
60°	195.3	126.7	71.2	47.5	29.0	18.5	18.5	13.2	7.9	10.6	18.5
62.5°	166.3	105.5	55.4	29.0	13.2	2.6	7.9	2.6	0.0	2.6	7.9
65°	139.9	84.4	36.9	13.2	0.0	0.0	0.0	0.0	0.0	0.0	2.6
67.5°	116.1	63.3	18.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	92.3	42.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	63.3	23.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	39.6	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	15.8	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°	11609.7	11609.7	11609.7	11609.7	11609.7	11609.7	11609.7	11609.7	11609.7	11609.7
2.5°	9775.4	10152.9	10385.1	10823.2	11271.8	11617.6	12050.4	12438.4	12599.4	12683.8
5°	7540.1	8065.3	8511.3	9179.0	9799.2	10554.0	11319.4	12222.0	12567.7	12657.4
7.5°	5291.5	5827.3	6294.4	7067.7	7951.8	8962.6	10108.0	11253.4	11757.4	11900.0
10°	3821.5	4394.2	4964.3	5737.6	6563.6	7658.8	8851.8	10268.9	10849.6	10960.4
12.5°	2412.2	3027.1	3953.5	4908.8	5782.4	6663.9	7912.2	9453.5	10094.8	10298.0
15°	1398.8	1857.9	2557.3	3803.0	4914.1	6080.6	7442.4	9147.3	9865.2	10073.7
17.5°	936.9	1095.2	1575.6	2528.3	3995.7	5542.3	7323.7	9398.1	10192.4	10459.0
20°	789.1	860.3	1029.3	1541.3	3077.3	5061.9	7355.4	10079.0	11121.5	11454.0
22.5°	694.1	760.1	868.2	1108.4	2148.3	4465.5	7505.8	11052.8	12398.8	12823.7
25°	612.2	678.3	773.3	918.5	1443.7	3776.7	7835.7	12478.0	14090.5	14557.6
27.5°	543.7	604.3	686.2	810.2	1111.1	3008.7	8128.6	13866.2	15634.4	16014.4
30°	480.3	530.5	609.6	704.7	923.7	2319.8	8276.4	15080.1	16758.7	17181.0
32.5°	417.0	464.5	541.0	617.5	760.1	1768.2	8173.5	15972.2	17851.3	18120.5
35°	356.2	406.5	469.8	541.0	657.2	1427.8	7658.8	16975.1	18983.5	19194.6
37.5°	306.1	348.3	414.4	469.8	593.8	1142.8	7036.0	17877.7	20253.0	20556.5
40°	258.6	300.8	366.8	417.0	546.3	900.0	6473.8	18880.5	21591.0	21965.7
42.5°	211.1	261.3	319.3	401.2	469.8	686.2	5793.0	19693.4	22596.5	23066.3
45°	168.9	224.3	287.7	398.5	409.1	522.5	5135.8	20326.8	23485.9	23908.2
47.5°	134.6	190.0	277.1	372.1	335.1	414.4	4761.1	20989.3	24224.8	24562.7
50°	108.2	158.4	290.3	327.2	279.7	351.0	4750.5	21728.2	24607.6	24831.9
52.5°	87.1	129.3	245.4	250.7	237.5	308.8	5035.5	22559.6	24998.1	25182.9
55°	73.9	108.2	161.0	184.8	213.8	279.7	5249.3	23839.6	25929.8	26104.0
57.5°	58.0	92.3	124.0	147.8	190.0	256.0	5278.3	24826.6	27109.5	27223.0
59°	50.1	79.1	110.8	132.0	174.2	240.2	5159.5	24887.3	27186.0	27368.1
60°	42.2	71.2	97.6	124.0	161.0	227.0	5030.3	24446.5	26901.0	27104.2
62.5°	31.7	55.4	71.2	100.2	132.0	195.3	4417.9	22907.9	25811.0	25953.5
65°	21.1	39.6	52.8	73.9	102.9	168.9	3599.8	20912.7	24127.2	24446.5
67.5°	13.2	29.0	42.2	55.4	84.4	142.5	2565.3	17933.1	21770.5	21976.3
70°	7.9	18.5	31.7	44.8	66.0	113.5	1522.8	14175.0	18112.5	18154.8
72.5°	5.3	13.2	21.1	31.7	52.8	102.9	739.0	9239.7	13224.8	13728.9
75°	2.6	7.9	13.2	23.7	42.2	84.4	353.6	6173.0	9622.4	9767.5
77.5°	0.0	2.6	7.9	15.8	31.7	66.0	205.9	4053.8	6561.0	6711.4
80°	0.0	0.0	5.3	13.2	23.7	42.2	124.0	2391.0	3974.6	4048.5
82.5°	0.0	0.0	2.6	10.6	15.8	31.7	63.3	1050.4	2602.2	2628.6
85°	0.0	0.0	2.6	10.6	13.2	21.1	23.7	142.5	1156.0	1177.1
87.5°	0.0	0.0	2.6	13.2	13.2	13.2	13.2	7.9	97.6	121.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)