

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: P652011

Luminaire Tested: **GALN-SA7A-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652011
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-SA7A-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA 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: 19237.9 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

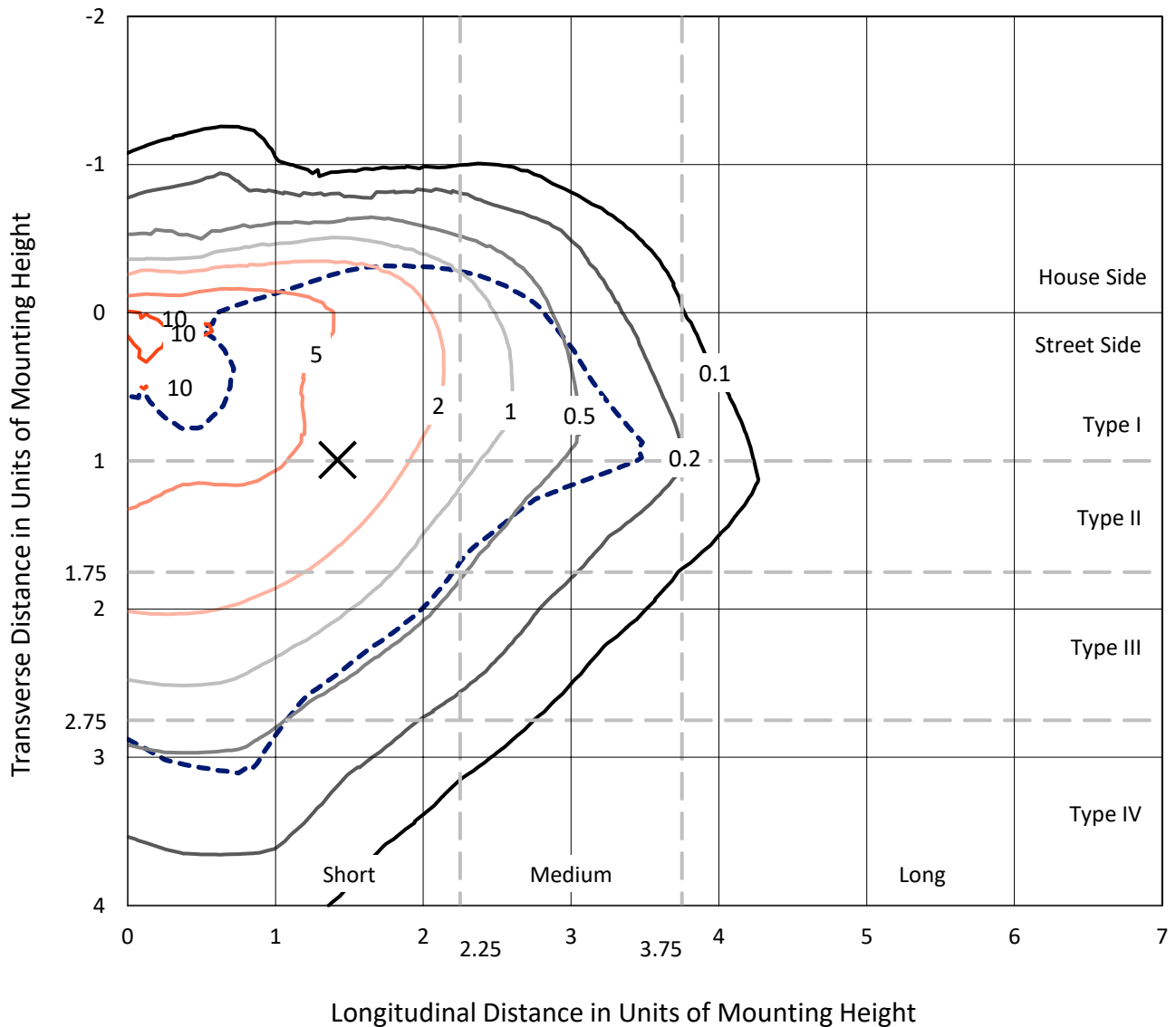
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

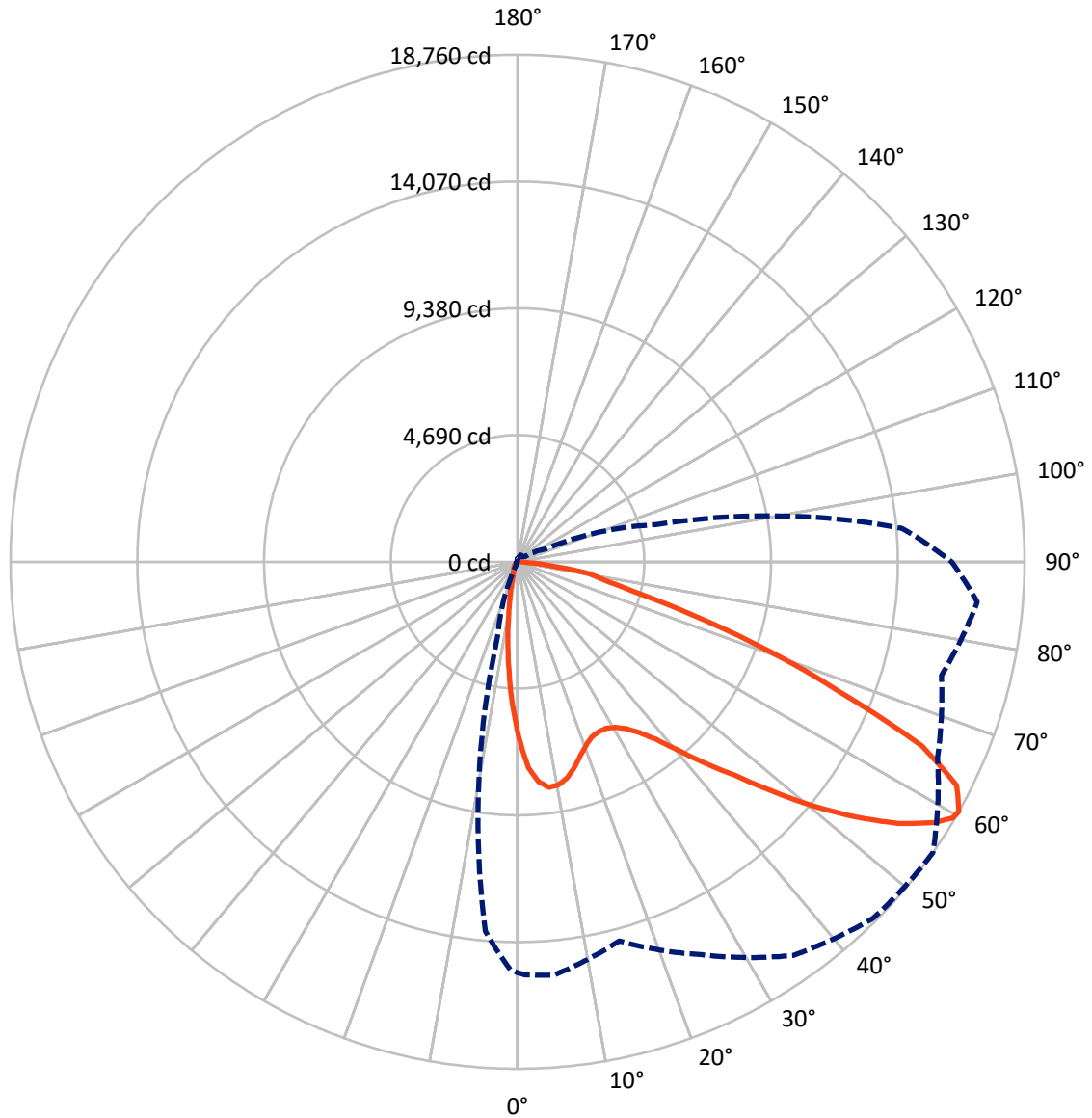
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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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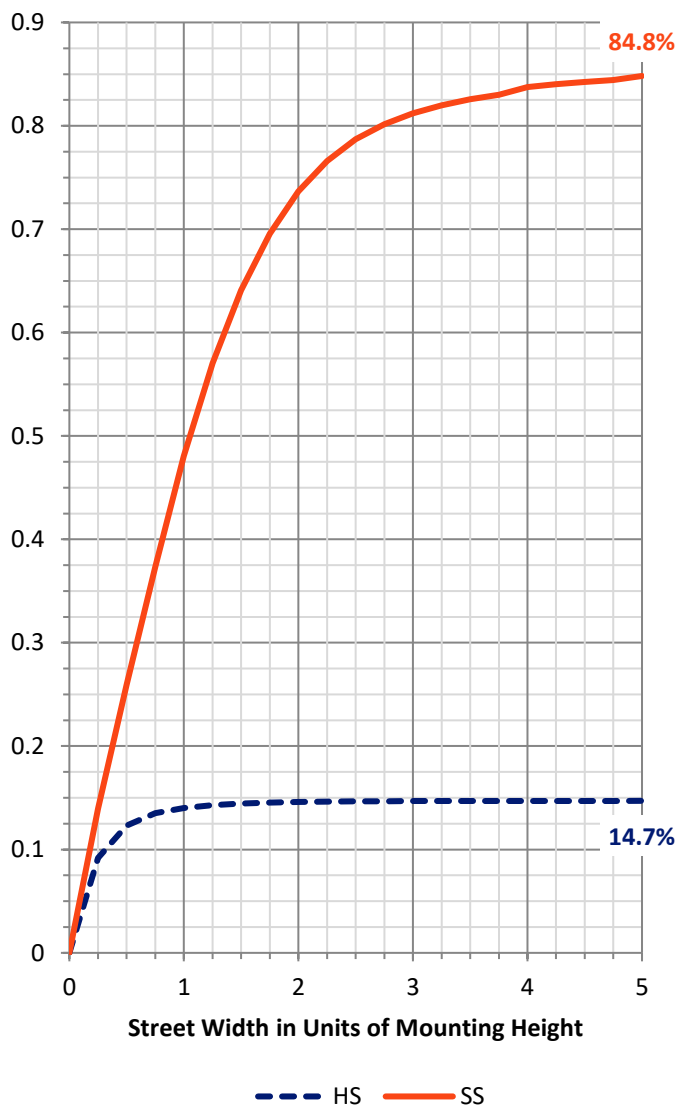
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2855.1	0.0	2855.1
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	16382.8	0.0	16382.8
	% Fixture	85.2	0.0	85.2
Total	Lumens	19237.9	0.0	19237.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.4	2.5
10°-20°	949.9	4.9
20°-30°	1406.0	7.3
30°-40°	2095.8	10.9
40°-50°	3069.3	16.0
50°-60°	4431.1	23.0
60°-70°	4661.3	24.2
70°-80°	1917.5	10.0
80°-90°	224.6	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°	19237.9	100.0
0°-180°	19237.9	100.0

Coefficient of Utilization



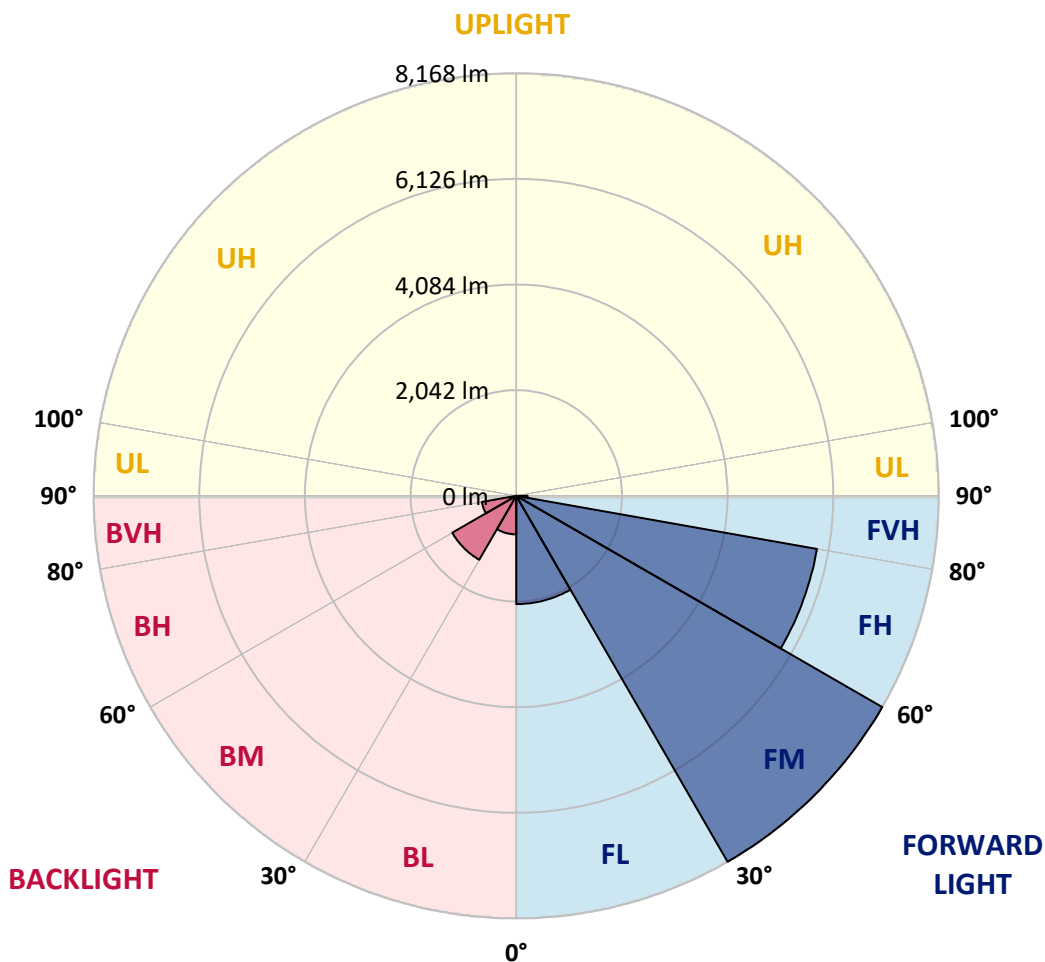
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2093.4	10.9			
FM (30°-60°)	8168.4	42.5			
FH (60°-80°)	5903.0	30.7			G3/7500
FVH (80°-90°)	218.0	1.1			G2/225
BL (0°-30°)	744.9	3.9	B2/1000		
BM (30°-60°)	1427.8	7.4	B2/2500		
BH (60°-80°)	675.8	3.5	B2/1000		G2/1000
BVH (80°-90°)	6.6	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°	6513.9	6513.9	6513.9	6513.9	6513.9	6513.9	6513.9	6513.9	6513.9	6513.9	6513.9
2.5°	7116.5	7104.7	7209.9	7381.6	7554.9	7645.2	7627.4	7620.0	7476.4	7371.3	7150.6
5°	7101.7	7162.5	7350.5	7815.5	8167.9	8338.2	8388.6	8176.8	7896.9	7491.2	6990.7
7.5°	6676.8	6752.3	7058.8	7785.9	8412.3	8782.4	8769.1	8430.0	7852.5	7224.7	6510.9
10°	6149.6	6238.5	6598.3	7480.9	8293.8	8782.4	8809.1	8379.6	7661.5	6855.9	6105.2
12.5°	5777.9	5883.0	6281.4	7196.5	7988.7	8470.0	8501.1	8190.1	7517.9	6713.8	5884.6
15°	5652.1	5751.3	6155.5	7052.9	7664.5	7923.6	7916.2	7883.6	7461.6	6747.8	5896.4
17.5°	5868.2	5949.7	6405.8	7118.1	7360.9	7334.3	7372.7	7529.7	7473.5	7033.6	6269.6
20°	6426.5	6509.4	6999.6	7318.0	7128.4	6959.6	6977.4	7239.5	7583.0	7571.2	6853.0
22.5°	7195.0	7335.7	7779.9	7705.9	7097.3	6727.2	6690.1	7030.7	7769.6	8190.1	7640.7
25°	8167.9	8310.1	8656.6	8324.9	7249.8	6672.3	6638.3	6967.0	7996.1	8794.3	8527.7
27.5°	8985.3	9093.4	9438.4	8927.6	7474.9	6696.0	6639.8	6975.9	8179.7	9308.1	9275.6
30°	9639.8	9719.8	9922.6	9208.9	7668.9	6799.7	6734.6	7106.2	8261.2	9558.4	9881.2
32.5°	10166.9	10301.7	10365.3	9509.5	7947.3	6995.1	6884.1	7356.5	8459.6	9867.8	10516.4
35°	10769.6	10925.1	10843.7	9796.7	8314.5	7300.2	7164.0	7762.2	8760.2	10153.6	11253.8
37.5°	11533.7	11712.9	11394.5	10098.8	8702.5	7759.2	7695.6	8332.3	9216.3	10562.3	12044.5
40°	12324.4	12428.0	11929.1	10466.1	9179.3	8427.1	8487.8	9179.3	9813.0	11052.4	12885.6
42.5°	12941.9	13039.6	12478.4	10774.1	9666.5	9219.2	9472.4	10201.0	10497.2	11554.4	13513.4
45°	13414.3	13497.2	12859.0	11110.2	10323.9	10366.8	10845.1	11253.8	11182.8	11861.0	13997.7
47.5°	13781.5	13852.5	13152.1	11471.5	11308.6	11770.6	12502.1	12675.4	11893.5	12192.6	14436.0
50°	13932.5	13953.3	13244.0	11932.0	12426.6	13559.4	14322.0	14216.9	12707.9	12561.3	14902.4
52.5°	14129.5	14125.0	13506.0	12370.4	13478.0	15158.6	15919.7	15681.3	13629.0	13113.6	15426.6
55°	14646.3	14652.2	14067.2	12992.3	14373.8	16449.8	17264.2	17091.0	14600.3	14046.6	16038.2
57.5°	15274.1	15296.3	14865.4	13719.3	15229.7	17385.7	18268.2	18201.6	15913.8	15084.6	16615.7
59°	15355.6	15400.0	15243.0	14231.7	15737.5	17672.9	18611.8	18676.9	16617.2	15768.7	16928.2
60°	15207.5	15281.5	15352.6	14521.9	16035.2	17776.6	18632.5	18759.9	17145.8	16233.7	17070.3
62.5°	14561.8	14678.8	15035.7	15414.8	16406.9	17453.8	17970.6	18237.1	17800.3	17455.3	17083.6
65°	13716.4	13777.0	14292.4	15573.2	15685.7	15946.4	16106.3	16448.4	17014.0	17926.2	16472.1
67.5°	12330.3	12509.5	13140.3	14653.7	13557.9	13249.9	13209.9	12869.3	14338.3	16803.8	14964.6
70°	10186.2	10266.2	11043.6	12013.4	10232.1	9758.3	9947.8	9820.4	11114.7	14465.6	12044.5
72.5°	7703.0	7883.6	8643.2	9576.1	6962.6	6348.0	6870.7	6823.4	8348.5	11625.5	8274.5
75°	5480.3	5597.3	6565.7	7494.2	4876.2	4131.3	4319.4	4495.6	5828.3	9179.3	4889.5
77.5°	3765.6	3866.2	4593.4	4956.1	3556.8	3407.2	3117.0	3287.3	3818.9	5446.2	2660.9
80°	2271.5	2267.1	2745.4	2834.2	2477.3	2877.1	2413.7	2709.8	2308.5	2330.7	1030.6
82.5°	1474.9	1460.1	1679.2	1830.3	1378.6	1449.6	972.9	1402.3	1504.5	650.1	325.8
85°	660.4	688.5	807.0	1064.7	604.2	321.3	198.4	430.9	641.2	327.2	0.0
87.5°	68.1	53.3	142.1	259.1	82.9	8.9	29.6	14.8	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°	6513.9	6513.9	6513.9	6513.9	6513.9	6513.9	6513.9	6513.9	6513.9	6513.9	6513.9
2.5°	7048.4	6962.6	6706.4	6466.5	6260.7	6008.9	5846.0	5589.9	5434.4	5387.0	5394.4
5°	6765.6	6518.3	6031.1	5641.7	5207.9	4960.6	4584.5	4223.2	4027.7	3955.1	3922.5
7.5°	6173.3	5908.3	5320.4	4708.8	4243.9	3810.0	3530.2	3211.8	2994.1	2814.9	2783.9
10°	5733.5	5385.5	4657.0	3999.5	3632.3	3306.6	3026.7	2708.4	2452.2	2247.8	2191.6
12.5°	5469.9	5080.5	4267.6	3716.7	3368.7	3034.1	2669.8	2301.1	2039.0	1818.4	1716.2
15°	5422.6	4970.9	4158.0	3513.9	3084.5	2680.2	2195.9	1797.6	1528.2	1319.4	1255.7
17.5°	5708.4	5167.9	4141.7	3302.1	2712.7	2139.7	1636.2	1306.1	1002.5	885.5	839.6
20°	6217.8	5515.9	4140.2	3056.3	2330.7	1648.1	1149.1	851.4	728.6	672.3	645.6
22.5°	6912.2	5989.7	4218.7	2844.5	1933.9	1215.7	820.3	678.2	607.1	561.2	550.9
25°	7760.7	6691.6	4411.2	2701.0	1630.4	953.6	676.7	580.5	521.3	500.5	491.6
27.5°	8514.4	7363.9	4623.0	2552.9	1412.6	844.0	627.8	531.6	484.2	467.9	454.6
30°	9164.5	7973.9	4725.2	2357.4	1238.0	773.0	636.7	568.6	506.5	457.6	435.4
32.5°	9706.4	8441.9	4791.8	2179.7	1089.9	632.3	503.4	439.8	411.7	393.9	379.0
35°	10384.6	8948.2	4751.8	2079.0	1014.3	576.0	459.0	379.0	331.7	296.1	281.3
37.5°	11095.4	9454.7	4682.2	1996.1	980.3	534.5	436.8	359.9	308.0	271.0	251.7
40°	11831.4	9924.1	4600.8	1919.1	949.2	507.9	423.5	343.5	291.7	251.7	231.0
42.5°	12505.1	10381.6	4568.1	1868.7	898.9	512.3	413.1	336.1	275.4	234.0	216.2
45°	13050.0	10815.5	4612.5	1842.0	844.0	504.9	416.1	327.2	262.1	222.1	204.4
47.5°	13631.9	11428.5	4756.2	1815.4	790.7	469.4	438.3	325.8	256.2	214.7	195.4
50°	14308.6	12213.3	5084.9	1750.3	725.6	430.9	466.4	324.3	248.8	205.8	186.6
52.5°	15210.4	13104.8	5424.0	1636.2	630.8	393.9	445.7	319.8	234.0	195.4	176.2
55°	16020.4	14043.6	5711.3	1501.5	510.8	340.6	401.3	300.6	208.8	177.7	160.0
57.5°	16355.1	14573.7	5702.4	1314.9	408.7	299.1	330.2	275.4	182.2	156.9	142.1
59°	16232.1	14507.1	5511.4	1177.2	373.2	276.9	273.9	272.5	170.3	142.1	130.3
60°	16058.9	14264.2	5305.6	1109.1	350.9	262.1	251.7	269.5	160.0	133.3	121.4
62.5°	15395.5	13257.3	4623.0	993.6	321.3	222.1	201.4	228.1	142.1	115.5	105.1
65°	14434.5	11709.9	3913.7	961.0	312.4	183.6	167.4	162.9	121.4	97.7	88.8
67.5°	12559.8	9909.3	3170.3	938.8	315.4	154.0	146.6	122.9	100.7	81.4	75.5
70°	10055.9	7726.6	2595.7	913.7	318.4	125.9	122.9	97.7	81.4	68.1	62.2
72.5°	6109.6	4580.0	2043.5	793.7	309.5	100.7	109.6	74.0	59.2	48.9	45.9
75°	3777.4	3134.7	1267.6	617.5	204.4	74.0	77.0	45.9	39.9	31.1	31.1
77.5°	2188.5	1979.8	453.1	222.1	90.3	44.4	34.1	23.7	22.2	13.3	13.3
80°	907.7	727.0	156.9	75.5	48.9	20.8	7.4	1.5	0.0	0.0	0.0
82.5°	265.1	235.5	43.0	34.1	14.8	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°	6513.9	6513.9	6513.9	6513.9	6513.9	6513.9	6513.9	6513.9	6513.9	6513.9	6513.9
2.5°	5268.5	5219.7	5197.5	5273.0	5203.4	5292.2	5224.1	5253.7	5341.1	5379.6	5478.9
5°	3943.3	3892.9	3869.3	3983.2	3977.3	4033.6	4027.7	4079.5	4123.9	4024.7	4126.9
7.5°	2746.8	2712.7	2769.0	2857.9	2952.7	2921.5	2921.5	2851.9	2875.6	2860.8	2856.4
10°	2089.4	1972.4	1942.8	1939.8	1975.3	1982.7	1942.8	1846.5	1882.1	1892.4	1954.7
12.5°	1643.7	1553.3	1415.6	1353.4	1337.1	1350.5	1218.7	1134.3	1174.3	1150.6	1211.3
15°	1178.7	1104.7	1023.2	953.6	934.4	907.7	764.0	663.4	651.5	656.0	666.3
17.5°	841.1	790.7	790.7	716.7	676.7	596.8	524.2	479.8	475.3	479.8	487.2
20°	620.4	593.7	590.8	571.5	527.1	473.8	423.5	414.6	411.7	419.1	422.0
22.5°	534.5	506.5	482.7	481.2	439.8	395.4	371.6	359.9	361.3	364.2	371.6
25°	478.3	448.7	423.5	408.7	379.0	348.0	325.8	319.8	319.8	324.3	325.8
27.5°	438.3	401.3	379.0	358.4	331.7	305.0	285.8	281.3	278.4	281.3	288.7
30°	410.2	373.2	345.0	313.9	293.2	268.0	251.7	245.8	244.3	245.8	251.7
32.5°	350.9	328.7	306.5	278.4	253.2	236.9	219.2	208.8	208.8	211.8	217.7
35°	265.1	253.2	251.7	244.3	223.6	205.8	185.1	174.8	174.8	180.6	183.6
37.5°	234.0	211.8	208.8	205.8	197.0	173.2	154.0	145.2	143.6	148.1	154.0
40°	213.2	188.0	174.8	171.7	173.2	146.6	125.9	117.0	117.0	118.5	124.4
42.5°	197.0	167.4	143.6	140.7	146.6	122.9	102.2	93.3	93.3	93.3	100.7
45°	183.6	149.5	121.4	106.6	115.5	100.7	82.9	74.0	71.1	74.0	77.0
47.5°	174.8	136.2	106.6	85.9	85.9	80.0	66.6	56.3	53.3	54.7	59.2
50°	167.4	124.4	90.3	69.6	62.2	63.7	50.4	43.0	39.9	39.9	44.4
52.5°	155.5	112.5	78.5	59.2	47.3	43.0	37.0	31.1	29.6	31.1	34.1
55°	140.7	102.2	68.1	48.9	37.0	29.6	26.7	22.2	20.8	22.2	26.7
57.5°	124.4	85.9	54.7	38.5	25.1	19.3	17.7	14.8	11.9	13.3	16.3
59°	114.0	77.0	47.3	31.1	19.3	13.3	13.3	10.3	7.4	8.9	13.3
60°	109.6	71.1	39.9	26.7	16.3	10.3	10.3	7.4	4.5	5.9	10.3
62.5°	93.3	59.2	31.1	16.3	7.4	1.5	4.5	1.5	0.0	1.5	4.5
65°	78.5	47.3	20.8	7.4	0.0	0.0	0.0	0.0	0.0	0.0	1.5
67.5°	65.2	35.6	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	51.8	23.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	35.6	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	22.2	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.9	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°	6513.9	6513.9	6513.9	6513.9	6513.9	6513.9	6513.9	6513.9	6513.9	6513.9
2.5°	5484.7	5696.5	5826.8	6072.6	6324.3	6518.3	6761.2	6978.9	7069.2	7116.5
5°	4230.6	4525.3	4775.5	5150.1	5498.1	5921.6	6351.0	6857.4	7051.4	7101.7
7.5°	2968.9	3269.6	3531.6	3965.5	4461.6	5028.7	5671.4	6314.0	6596.8	6676.8
10°	2144.1	2465.5	2785.3	3219.2	3682.7	4297.2	4966.5	5761.7	6087.4	6149.6
12.5°	1353.4	1698.4	2218.2	2754.2	3244.3	3738.9	4439.3	5304.1	5664.0	5777.9
15°	784.8	1042.4	1434.8	2133.8	2757.2	3411.7	4175.7	5132.4	5535.1	5652.1
17.5°	525.7	614.5	884.1	1418.6	2241.9	3109.6	4109.1	5273.0	5718.7	5868.2
20°	442.8	482.7	577.5	864.8	1726.6	2840.1	4126.9	5655.1	6240.0	6426.5
22.5°	389.5	426.5	487.2	621.9	1205.3	2505.4	4211.3	6201.4	6956.7	7195.0
25°	343.5	380.6	433.9	515.3	810.0	2119.0	4396.4	7001.1	7905.8	8167.9
27.5°	305.0	339.1	385.0	454.6	623.4	1688.1	4560.7	7779.9	8772.1	8985.3
30°	269.5	297.6	342.0	395.4	518.3	1301.6	4643.7	8461.1	9402.9	9639.8
32.5°	234.0	260.6	303.5	346.5	426.5	992.1	4586.0	8961.6	10015.9	10166.9
35°	199.9	228.1	263.6	303.5	368.7	801.1	4297.2	9524.3	10651.2	10769.6
37.5°	171.7	195.4	232.5	263.6	333.2	641.2	3947.7	10030.7	11363.4	11533.7
40°	145.2	168.8	205.8	234.0	306.5	504.9	3632.3	10593.4	12114.2	12324.4
42.5°	118.5	146.6	179.1	225.1	263.6	385.0	3250.3	11049.5	12678.3	12941.9
45°	94.8	125.9	161.4	223.6	229.5	293.2	2881.6	11404.9	13177.4	13414.3
47.5°	75.5	106.6	155.5	208.8	188.0	232.5	2671.3	11776.5	13592.0	13781.5
50°	60.7	88.8	162.9	183.6	156.9	197.0	2665.4	12191.1	13806.7	13932.5
52.5°	48.9	72.6	137.7	140.7	133.3	173.2	2825.3	12657.6	14025.8	14129.5
55°	41.5	60.7	90.3	103.7	119.9	156.9	2945.3	13375.8	14548.5	14646.3
57.5°	32.5	51.8	69.6	82.9	106.6	143.6	2961.5	13929.6	15210.4	15274.1
59°	28.2	44.4	62.2	74.0	97.7	134.7	2894.9	13963.6	15253.4	15355.6
60°	23.7	39.9	54.7	69.6	90.3	127.3	2822.3	13716.4	15093.4	15207.5
62.5°	17.7	31.1	39.9	56.3	74.0	109.6	2478.8	12853.1	14481.9	14561.8
65°	11.9	22.2	29.6	41.5	57.8	94.8	2019.7	11733.6	13537.2	13716.4
67.5°	7.4	16.3	23.7	31.1	47.3	80.0	1439.3	10061.8	12214.9	12330.3
70°	4.5	10.3	17.7	25.1	37.0	63.7	854.4	7953.2	10162.5	10186.2
72.5°	2.9	7.4	11.9	17.7	29.6	57.8	414.6	5184.2	7420.1	7703.0
75°	1.5	4.5	7.4	13.3	23.7	47.3	198.4	3463.5	5398.9	5480.3
77.5°	0.0	1.5	4.5	8.9	17.7	37.0	115.5	2274.5	3681.2	3765.6
80°	0.0	0.0	2.9	7.4	13.3	23.7	69.6	1341.6	2230.0	2271.5
82.5°	0.0	0.0	1.5	5.9	8.9	17.7	35.6	589.4	1460.1	1474.9
85°	0.0	0.0	1.5	5.9	7.4	11.9	13.3	80.0	648.6	660.4
87.5°	0.0	0.0	1.5	7.4	7.4	7.4	7.4	4.5	54.7	68.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)