

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: P651021

Luminaire Tested: **GALN-SA7C-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651021
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-SA7C-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 29575.4 lumens
Efficiency: N/A
Efficacy: 78.4 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

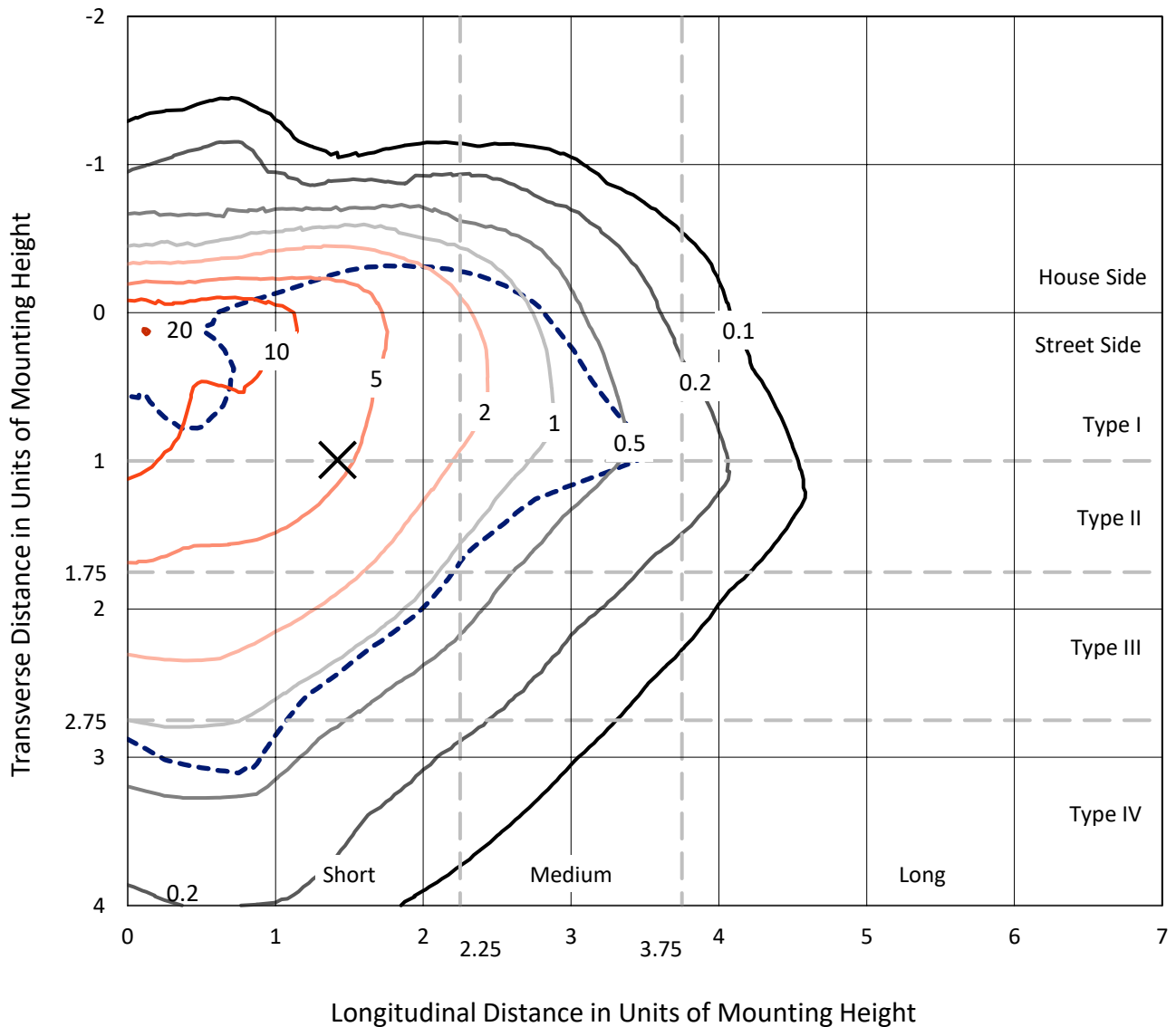
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

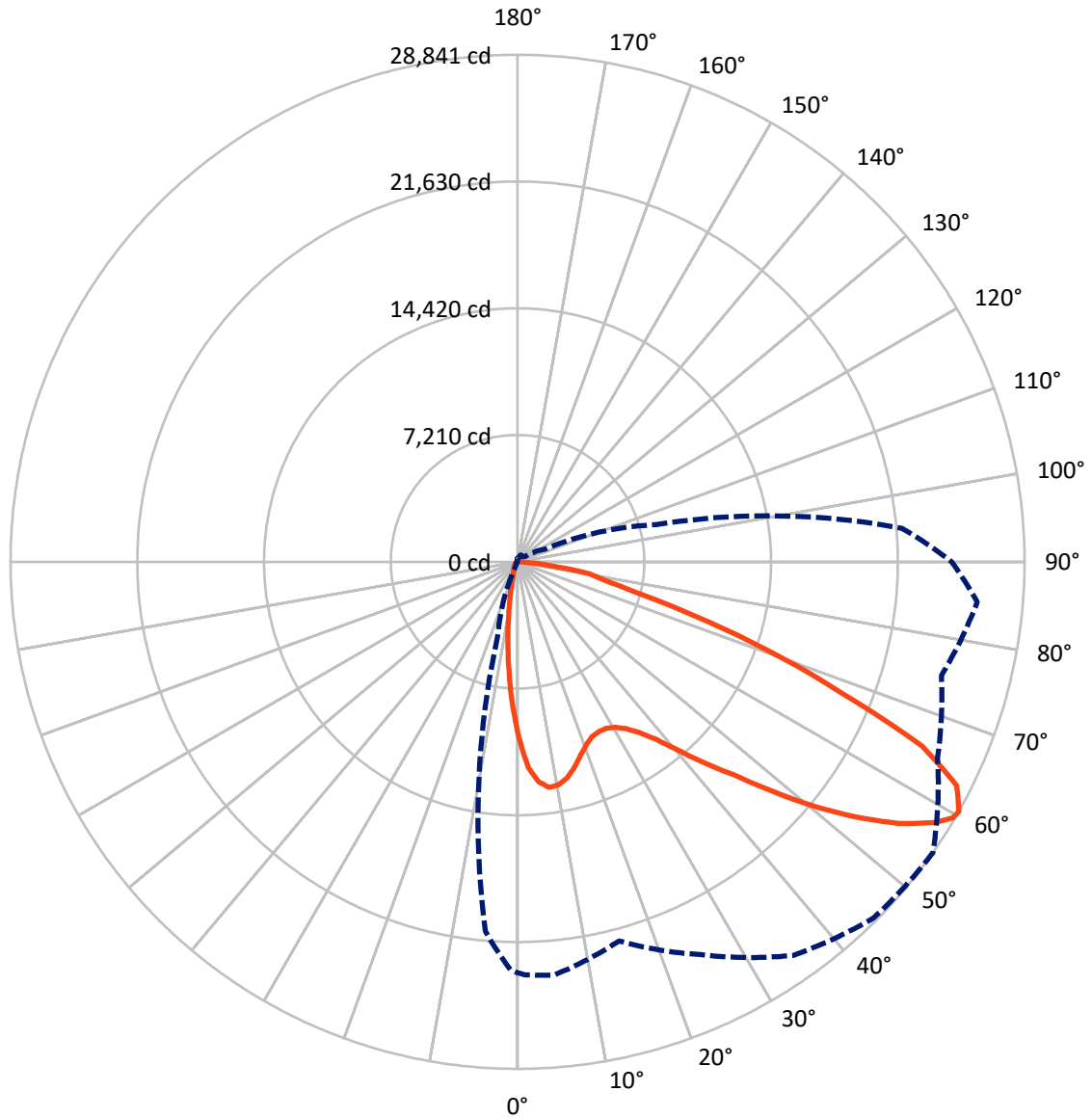
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.7 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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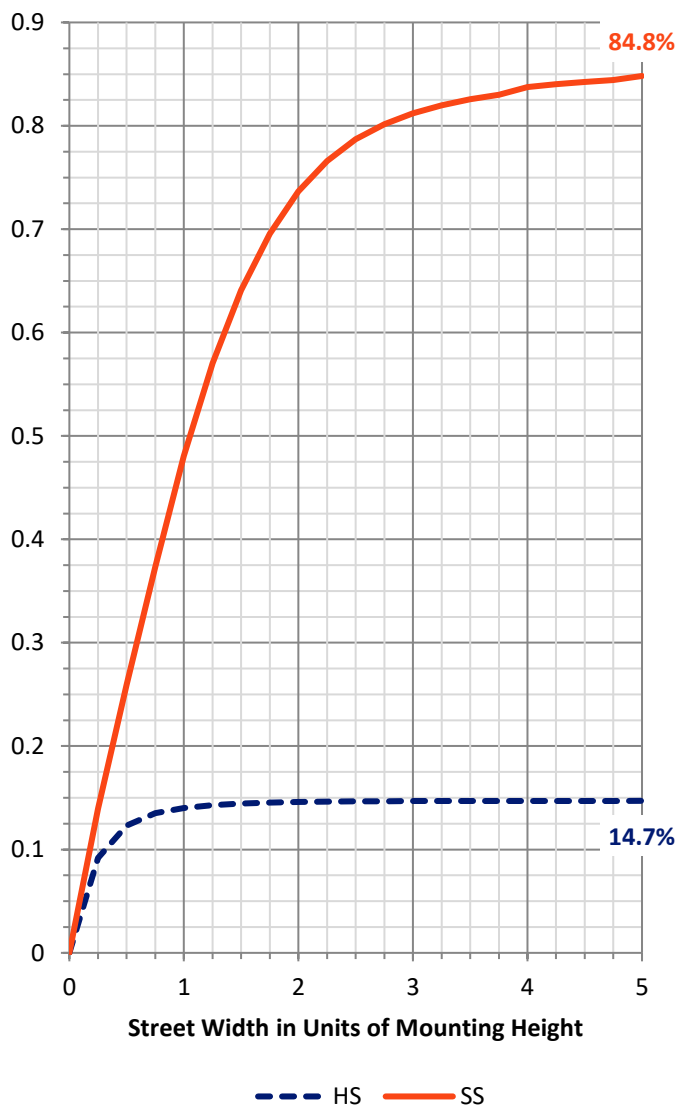
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4389.3	0.0	4389.3
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	25186.2	0.0	25186.2
	% Fixture	85.2	0.0	85.2
Total	Lumens	29575.4	0.0	29575.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.6	2.5
10°-20°	1460.3	4.9
20°-30°	2161.5	7.3
30°-40°	3222.0	10.9
40°-50°	4718.6	16.0
50°-60°	6812.2	23.0
60°-70°	7166.1	24.2
70°-80°	2947.9	10.0
80°-90°	345.3	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°	29575.4	100.0
0°-180°	29575.4	100.0

Coefficient of Utilization

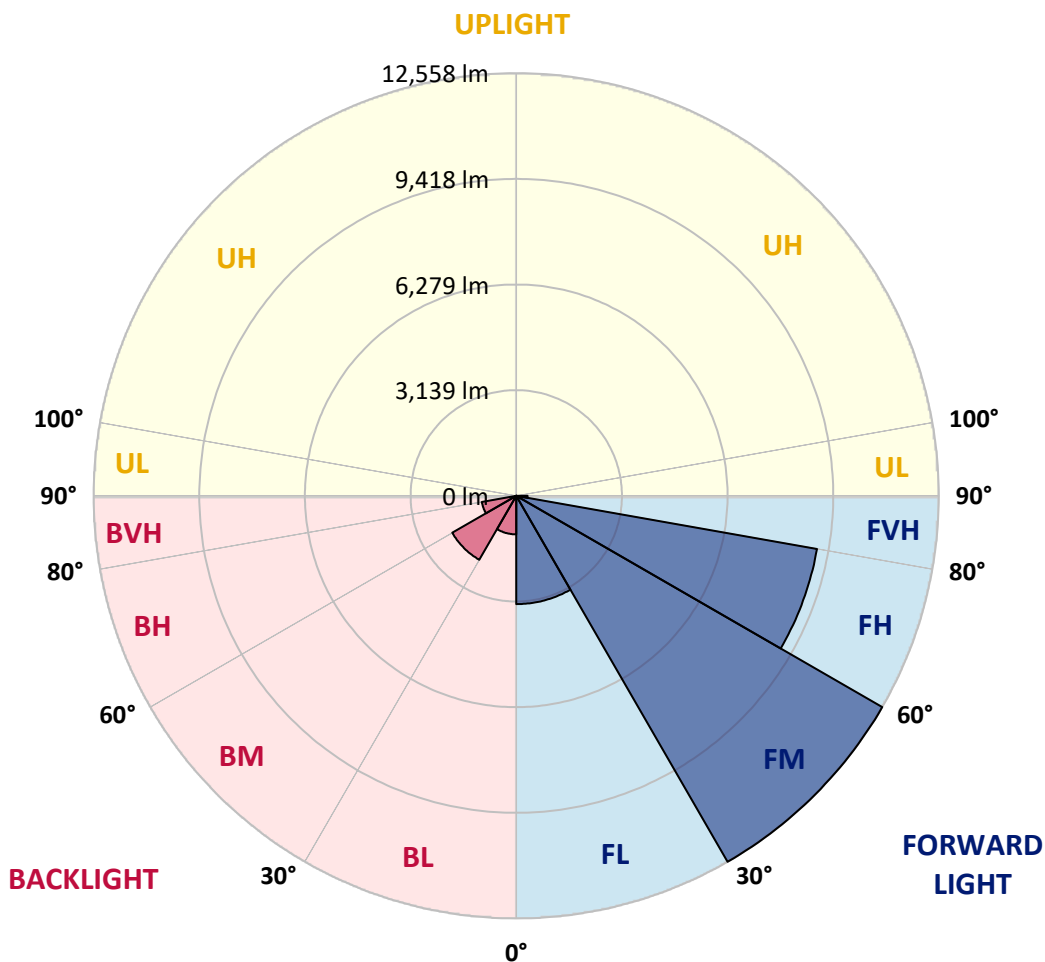


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3218.2	10.9			
FM (30°-60°)	12557.8	42.5			
FH (60°-80°)	9075.1	30.7			G4/12000
FVH (80°-90°)	335.1	1.1			G3/500
BL (0°-30°)	1145.2	3.9	B3/2500		
BM (30°-60°)	2195.0	7.4	B2/2500		
BH (60°-80°)	1038.9	3.5	B3/2500		G3/2500
BVH (80°-90°)	10.2	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°	10014.1	10014.1	10014.1	10014.1	10014.1	10014.1	10014.1	10014.1	10014.1	10014.1	10014.1
2.5°	10940.7	10922.5	11084.1	11348.2	11614.5	11753.4	11726.1	11714.7	11493.9	11332.2	10993.0
5°	10917.9	11011.3	11300.3	12015.2	12557.0	12818.8	12896.1	12570.6	12140.4	11516.7	10747.2
7.5°	10264.6	10380.7	10851.9	11969.6	12932.6	13501.7	13481.2	12959.9	12072.1	11106.8	10009.6
10°	9454.2	9590.8	10143.9	11500.7	12750.5	13501.7	13542.7	12882.5	11778.5	10540.0	9385.9
12.5°	8882.7	9044.4	9656.8	11063.6	12281.5	13021.4	13069.1	12591.1	11557.6	10321.5	9046.6
15°	8689.3	8841.8	9463.3	10842.8	11783.0	12181.4	12169.9	12119.9	11471.1	10373.8	9064.9
17.5°	9021.7	9146.8	9847.9	10942.9	11316.3	11275.3	11334.5	11575.9	11489.3	10813.2	9638.5
20°	9879.8	10007.3	10760.8	11250.3	10958.9	10699.4	10726.7	11129.6	11657.8	11639.5	10535.5
22.5°	11061.3	11277.6	11960.5	11846.7	10911.0	10341.9	10285.1	10808.6	11944.6	12591.1	11746.6
25°	12557.0	12775.5	13308.2	12798.3	11145.6	10257.8	10205.4	10710.7	12292.9	13519.9	13110.2
27.5°	13813.6	13979.8	14510.2	13724.8	11491.6	10294.2	10207.6	10724.4	12575.2	14309.9	14259.7
30°	14819.8	14942.7	15254.6	14157.3	11789.8	10453.5	10353.4	10924.8	12700.4	14694.5	15190.8
32.5°	15630.2	15837.4	15935.3	14619.4	12217.8	10754.0	10583.3	11309.4	13005.5	15170.4	16167.5
35°	16556.7	16795.8	16670.6	15061.0	12782.4	11223.0	11013.6	11933.2	13467.5	15609.7	17301.1
37.5°	17731.4	18006.8	17517.4	15525.4	13378.8	11928.7	11830.8	12809.7	14168.7	16238.0	18516.7
40°	18947.0	19106.3	18339.2	16090.0	14111.8	12955.4	13048.7	14111.8	15086.1	16991.6	19809.8
42.5°	19896.3	20046.6	19183.8	16563.6	14860.7	14173.3	14562.5	15682.5	16137.9	17763.3	20775.0
45°	20622.5	20750.0	19768.8	17080.3	15871.5	15937.5	16672.8	17301.1	17191.9	18234.5	21519.4
47.5°	21187.1	21296.3	20219.6	17635.8	17385.3	18095.6	19220.2	19486.6	18284.5	18744.4	22193.2
50°	21419.3	21451.1	20360.7	18343.7	19104.1	20845.6	22018.0	21856.3	19536.6	19311.2	22910.4
52.5°	21722.0	21715.2	20763.6	19017.6	20720.4	23304.2	24474.3	24107.8	20952.6	20160.4	23716.2
55°	22516.5	22525.6	21626.4	19973.7	22097.6	25289.2	26541.3	26274.9	22446.0	21594.5	24656.4
57.5°	23481.7	23515.9	22853.4	21091.4	23413.4	26728.0	28084.8	27982.3	24465.2	23190.3	25544.2
59°	23607.0	23675.2	23434.0	21879.1	24194.2	27169.6	28612.8	28713.0	25546.5	24242.1	26024.6
60°	23379.3	23493.1	23602.4	22325.3	24651.8	27329.0	28644.7	28840.5	26359.2	24956.8	26243.1
62.5°	22386.7	22566.6	23115.2	23698.0	25223.2	26832.7	27627.2	28036.9	27365.4	26835.0	26263.6
65°	21086.9	21180.2	21972.5	23941.6	24114.6	24515.2	24761.1	25286.9	26156.5	27558.9	25323.4
67.5°	18956.1	19231.6	20201.3	22527.9	20843.3	20369.8	20308.3	19784.8	22043.0	25833.3	23006.0
70°	15659.8	15782.7	16977.9	18468.9	15730.4	15001.9	15293.2	15097.5	17087.1	22238.8	18516.7
72.5°	11842.2	12119.9	13287.7	14721.9	10703.9	9759.2	10562.8	10490.0	12834.7	17872.5	12720.9
75°	8425.2	8605.0	10093.9	11521.2	7496.4	6351.3	6640.5	6911.3	8960.2	14111.8	7516.9
77.5°	5789.0	5943.9	7061.6	7619.3	5468.1	5238.2	4791.9	5053.7	5871.0	8372.8	4090.8
80°	3492.1	3485.3	4220.6	4357.1	3808.6	4423.2	3710.7	4165.9	3549.0	3583.2	1584.4
82.5°	2267.3	2244.6	2581.5	2813.7	2119.4	2228.6	1495.6	2155.8	2312.9	999.4	500.8
85°	1015.3	1058.6	1240.6	1636.8	928.8	494.0	305.0	662.5	985.7	503.1	0.0
87.5°	104.7	81.9	218.6	398.4	127.5	13.6	45.5	22.8	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°	10014.1	10014.1	10014.1	10014.1	10014.1	10014.1	10014.1	10014.1	10014.1	10014.1	10014.1
2.5°	10835.9	10703.9	10310.1	9941.3	9624.9	9237.9	8987.5	8593.7	8354.7	8281.7	8293.2
5°	10401.2	10021.0	9272.0	8673.3	8006.3	7626.2	7047.9	6492.4	6191.9	6080.4	6030.4
7.5°	9490.6	9083.1	8179.3	7239.2	6524.3	5857.3	5427.1	4937.7	4603.0	4327.5	4279.8
10°	8814.4	8279.5	7159.5	6148.7	5584.2	5083.3	4653.1	4163.6	3769.8	3455.7	3369.1
12.5°	8409.2	7810.5	6560.8	5713.9	5179.0	4664.4	4104.5	3537.7	3134.7	2795.5	2638.4
15°	8336.4	7642.1	6392.3	5402.1	4741.9	4120.4	3376.0	2763.6	2349.3	2028.3	1930.4
17.5°	8775.8	7944.8	6367.3	5076.5	4170.5	3289.5	2515.5	2007.8	1541.1	1361.3	1290.8
20°	9558.9	8479.8	6365.0	4698.6	3583.2	2533.7	1766.5	1308.9	1120.0	1033.5	992.5
22.5°	10626.5	9208.3	6485.6	4373.1	2973.1	1869.0	1261.2	1042.6	933.3	862.8	846.8
25°	11930.9	10287.4	6781.6	4152.3	2506.3	1466.0	1040.3	892.4	801.3	769.4	755.8
27.5°	13089.7	11320.9	7107.1	3924.6	2171.7	1297.6	965.2	817.3	744.4	719.4	698.9
30°	14089.0	12258.8	7264.2	3624.1	1903.1	1188.3	978.8	874.1	778.5	703.4	669.3
32.5°	14922.2	12978.1	7366.7	3351.0	1675.4	972.0	774.0	676.1	632.9	605.5	582.8
35°	15964.9	13756.7	7305.2	3196.1	1559.4	885.6	705.7	582.8	509.9	455.3	432.5
37.5°	17057.6	14535.3	7198.2	3068.6	1507.0	821.8	671.5	553.2	473.5	416.6	387.0
40°	18189.0	15256.8	7073.0	2950.3	1459.2	780.9	651.1	528.1	448.5	387.0	355.2
42.5°	19224.8	15960.3	7022.9	2872.9	1381.8	787.7	635.1	516.8	423.4	359.7	332.4
45°	20062.5	16627.3	7091.1	2831.9	1297.6	776.2	639.7	503.1	402.9	341.4	314.1
47.5°	20957.1	17569.8	7312.0	2790.9	1215.7	721.7	673.8	500.8	393.8	330.1	300.5
50°	21997.4	18776.3	7817.3	2690.8	1115.5	662.5	717.1	498.5	382.5	316.5	286.9
52.5°	23383.8	20146.7	8338.7	2515.5	969.8	605.5	685.2	491.7	359.7	300.5	270.9
55°	24629.0	21590.0	8780.3	2308.3	785.4	523.6	617.0	462.1	321.0	273.2	245.8
57.5°	25143.5	22405.0	8766.7	2021.5	628.3	459.9	507.6	423.4	280.0	241.3	218.6
59°	24954.6	22302.5	8473.0	1809.7	573.6	425.7	421.2	418.9	261.8	218.6	200.3
60°	24688.2	21929.2	8156.6	1705.0	539.5	402.9	387.0	414.3	245.8	204.9	186.7
62.5°	23668.4	20381.2	7107.1	1527.5	494.0	341.4	309.6	350.6	218.6	177.5	161.6
65°	22191.0	18002.3	6016.7	1477.4	480.3	282.2	257.3	250.4	186.7	150.3	136.6
67.5°	19308.9	15234.1	4873.9	1443.2	484.9	236.7	225.4	189.0	154.8	125.2	116.1
70°	15459.4	11878.6	3990.6	1404.6	489.5	193.5	189.0	150.3	125.2	104.7	95.6
72.5°	9392.7	7041.1	3141.6	1220.2	475.8	154.8	168.5	113.8	91.1	75.1	70.6
75°	5807.3	4819.3	1948.7	949.3	314.1	113.8	118.4	70.6	61.5	47.8	47.8
77.5°	3364.6	3043.7	696.6	341.4	138.8	68.3	52.4	36.4	34.1	20.5	20.5
80°	1395.5	1117.8	241.3	116.1	75.1	31.9	11.4	2.3	0.0	0.0	0.0
82.5°	407.5	362.0	66.0	52.4	22.8	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°	10014.1	10014.1	10014.1	10014.1	10014.1	10014.1	10014.1	10014.1	10014.1	10014.1	10014.1
2.5°	8099.7	8024.6	7990.4	8106.5	7999.5	8136.1	8031.4	8076.9	8211.2	8270.4	8423.0
5°	6062.3	5984.8	5948.4	6123.7	6114.6	6201.1	6191.9	6271.7	6340.0	6187.4	6344.5
7.5°	4222.8	4170.5	4257.0	4393.6	4539.3	4491.4	4491.4	4384.5	4420.9	4398.1	4391.3
10°	3212.1	3032.2	2986.7	2982.2	3036.8	3048.2	2986.7	2838.7	2893.4	2909.4	3004.9
12.5°	2526.9	2388.0	2176.3	2080.7	2055.7	2076.2	1873.5	1743.7	1805.2	1768.8	1862.1
15°	1812.1	1698.2	1573.0	1466.0	1436.4	1395.5	1174.6	1019.9	1001.6	1008.4	1024.4
17.5°	1293.0	1215.7	1215.7	1101.8	1040.3	917.4	805.8	737.6	730.7	737.6	749.0
20°	953.9	912.8	908.3	878.7	810.4	728.5	651.1	637.4	632.9	644.2	648.8
22.5°	821.8	778.5	742.1	739.8	676.1	607.8	571.4	553.2	555.5	560.0	571.4
25°	735.3	689.8	651.1	628.3	582.8	535.0	500.8	491.7	491.7	498.5	500.8
27.5°	673.8	617.0	582.8	550.9	509.9	468.9	439.3	432.5	428.0	432.5	443.9
30°	630.6	573.6	530.4	482.6	450.8	412.0	387.0	377.9	375.6	377.9	387.0
32.5°	539.5	505.4	471.2	428.0	389.3	364.2	336.9	321.0	321.0	325.6	334.6
35°	407.5	389.3	387.0	375.6	343.7	316.5	284.6	268.6	268.6	277.7	282.2
37.5°	359.7	325.6	321.0	316.5	302.8	266.3	236.7	223.1	220.8	227.7	236.7
40°	327.8	289.1	268.6	264.1	266.3	225.4	193.5	179.8	179.8	182.1	191.2
42.5°	302.8	257.3	220.8	216.3	225.4	189.0	157.1	143.4	143.4	143.4	154.8
45°	282.2	229.9	186.7	163.9	177.5	154.8	127.5	113.8	109.2	113.8	118.4
47.5°	268.6	209.4	163.9	132.0	132.0	123.0	102.4	86.5	81.9	84.3	91.1
50°	257.3	191.2	138.8	107.0	95.6	97.9	77.4	66.0	61.5	61.5	68.3
52.5°	239.0	173.0	120.7	91.1	72.8	66.0	56.9	47.8	45.5	47.8	52.4
55°	216.3	157.1	104.7	75.1	56.9	45.5	41.0	34.1	31.9	34.1	41.0
57.5°	191.2	132.0	84.3	59.2	38.7	29.6	27.3	22.8	18.2	20.5	25.1
59°	175.3	118.4	72.8	47.8	29.6	20.5	20.5	15.9	11.4	13.6	20.5
60°	168.5	109.2	61.5	41.0	25.1	15.9	15.9	11.4	6.8	9.1	15.9
62.5°	143.4	91.1	47.8	25.1	11.4	2.3	6.8	2.3	0.0	2.3	6.8
65°	120.7	72.8	31.9	11.4	0.0	0.0	0.0	0.0	0.0	0.0	2.3
67.5°	100.2	54.7	15.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	79.6	36.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	54.7	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	34.1	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.6	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°	10014.1	10014.1	10014.1	10014.1	10014.1	10014.1	10014.1	10014.1	10014.1	10014.1
2.5°	8432.0	8757.6	8957.9	9335.8	9722.8	10021.0	10394.3	10729.0	10867.8	10940.7
5°	6503.9	6956.8	7341.6	7917.5	8452.5	9103.6	9763.8	10542.3	10840.5	10917.9
7.5°	4564.3	5026.4	5429.3	6096.4	6858.9	7730.9	8718.8	9706.8	10141.6	10264.6
10°	3296.3	3790.3	4282.0	4949.0	5661.5	6606.3	7635.3	8857.7	9358.6	9454.2
12.5°	2080.7	2611.1	3410.2	4234.2	4987.7	5748.1	6824.8	8154.3	8707.5	8882.7
15°	1206.5	1602.6	2205.9	3280.4	4238.8	5245.0	6419.6	7890.3	8509.4	8689.3
17.5°	808.1	944.7	1359.1	2180.9	3446.6	4780.6	6317.2	8106.5	8791.7	9021.7
20°	680.6	742.1	887.8	1329.5	2654.4	4366.2	6344.5	8693.8	9593.0	9879.8
22.5°	598.7	655.6	749.0	956.1	1853.1	3851.8	6474.3	9533.8	10694.8	11061.3
25°	528.1	585.1	667.0	792.2	1245.2	3257.6	6758.8	10763.1	12154.0	12557.0
27.5°	468.9	521.3	591.9	698.9	958.4	2595.2	7011.5	11960.5	13485.8	13813.6
30°	414.3	457.6	525.9	607.8	796.8	2001.0	7139.0	13007.7	14455.5	14819.8
32.5°	359.7	400.7	466.7	532.7	655.6	1525.2	7050.2	13777.2	15398.0	15630.2
35°	307.3	350.6	405.2	466.7	566.8	1231.6	6606.3	14642.2	16374.6	16556.7
37.5°	264.1	300.5	357.4	405.2	512.2	985.7	6069.1	15420.7	17469.6	17731.4
40°	223.1	259.5	316.5	359.7	471.2	776.2	5584.2	16285.8	18623.8	18947.0
42.5°	182.1	225.4	275.4	346.0	405.2	591.9	4996.8	16986.9	19491.1	19896.3
45°	145.7	193.5	248.1	343.7	352.9	450.8	4430.0	17533.3	20258.3	20622.5
47.5°	116.1	163.9	239.0	321.0	289.1	357.4	4106.8	18104.7	20895.7	21187.1
50°	93.4	136.6	250.4	282.2	241.3	302.8	4097.6	18742.1	21225.7	21419.3
52.5°	75.1	111.5	211.7	216.3	204.9	266.3	4343.5	19459.2	21562.7	21722.0
55°	63.7	93.4	138.8	159.4	184.4	241.3	4527.9	20563.3	22366.2	22516.5
57.5°	50.1	79.6	107.0	127.5	163.9	220.8	4552.9	21414.7	23383.8	23481.7
59°	43.2	68.3	95.6	113.8	150.3	207.1	4450.5	21467.0	23449.9	23607.0
60°	36.4	61.5	84.3	107.0	138.8	195.8	4339.0	21086.9	23204.0	23379.3
62.5°	27.3	47.8	61.5	86.5	113.8	168.5	3810.8	19759.7	22263.8	22386.7
65°	18.2	34.1	45.5	63.7	88.8	145.7	3105.1	18038.7	20811.5	21086.9
67.5°	11.4	25.1	36.4	47.8	72.8	123.0	2212.8	15468.6	18778.5	18956.1
70°	6.8	15.9	27.3	38.7	56.9	97.9	1313.6	12226.9	15623.3	15659.8
72.5°	4.5	11.4	18.2	27.3	45.5	88.8	637.4	7969.9	11407.3	11842.2
75°	2.3	6.8	11.4	20.5	36.4	72.8	305.0	5324.6	8300.0	8425.2
77.5°	0.0	2.3	6.8	13.6	27.3	56.9	177.5	3496.6	5659.3	5789.0
80°	0.0	0.0	4.5	11.4	20.5	36.4	107.0	2062.5	3428.3	3492.1
82.5°	0.0	0.0	2.3	9.1	13.6	27.3	54.7	906.0	2244.6	2267.3
85°	0.0	0.0	2.3	9.1	11.4	18.2	20.5	123.0	997.1	1015.3
87.5°	0.0	0.0	2.3	11.4	11.4	11.4	11.4	6.8	84.3	104.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)