

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: P647061

Luminaire Tested: **GALN-SA7C-835-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647061
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-835-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 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: 27535.8 lumens
Efficiency: N/A
Efficacy: 73.0 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

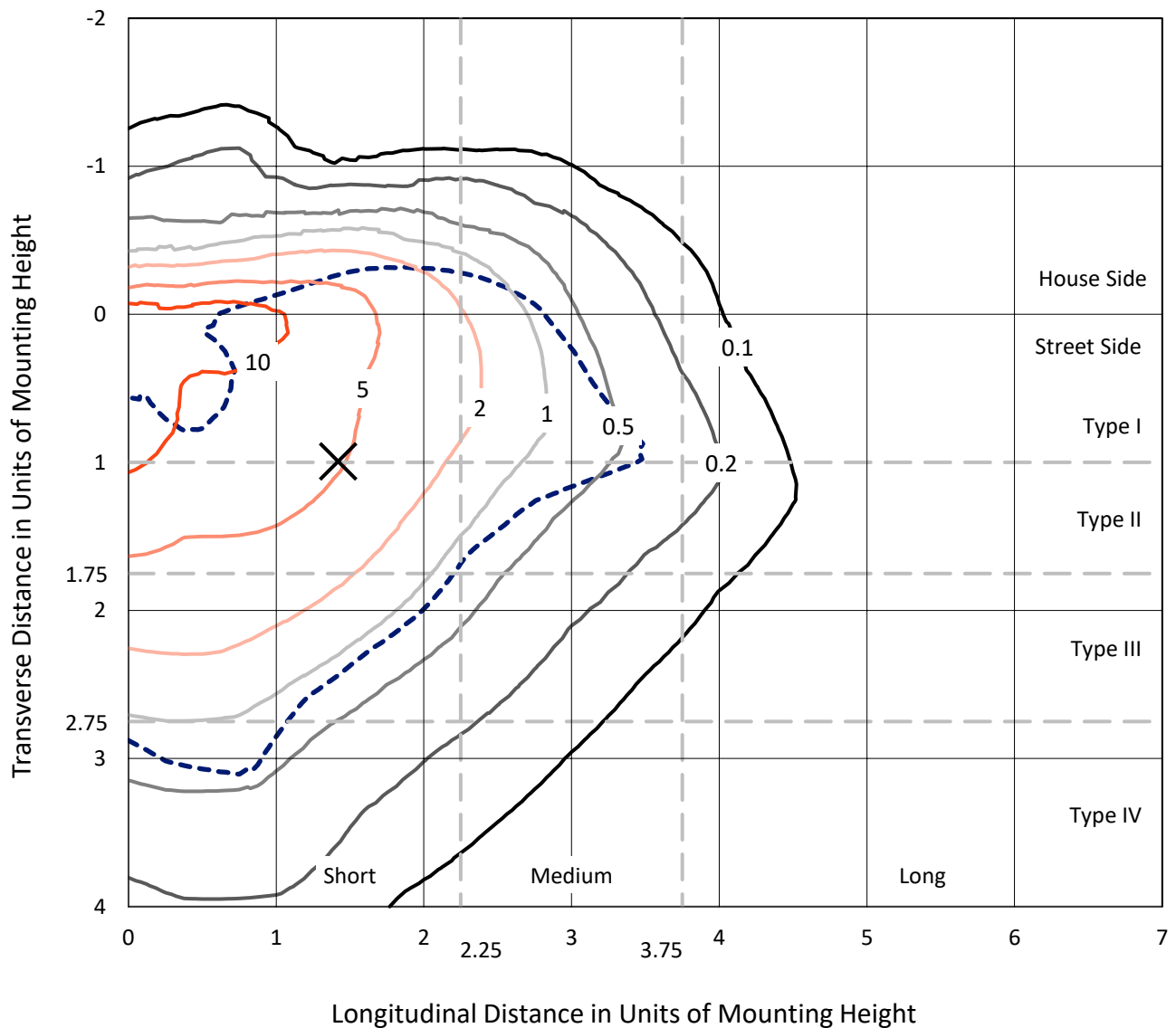
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

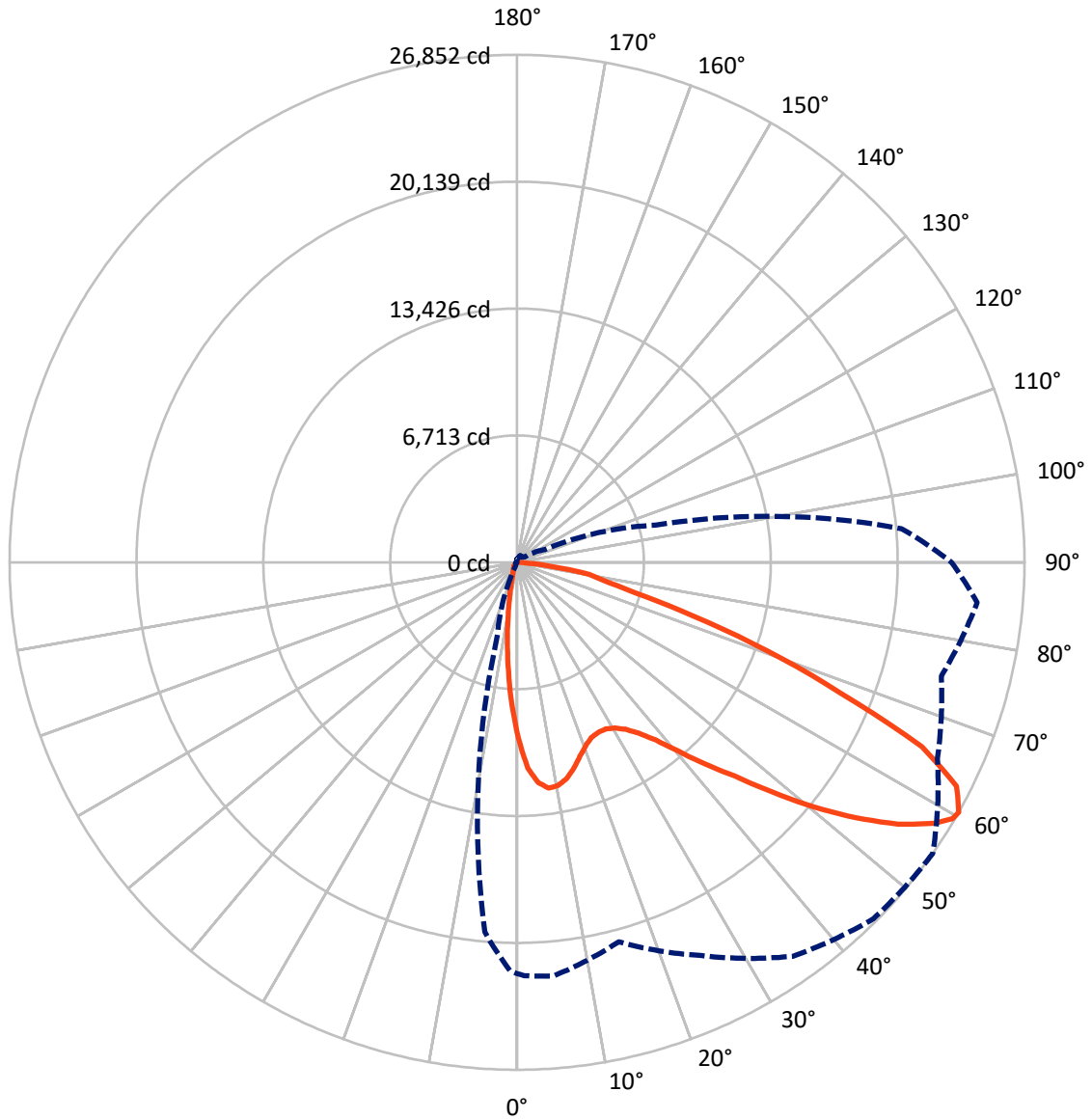
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 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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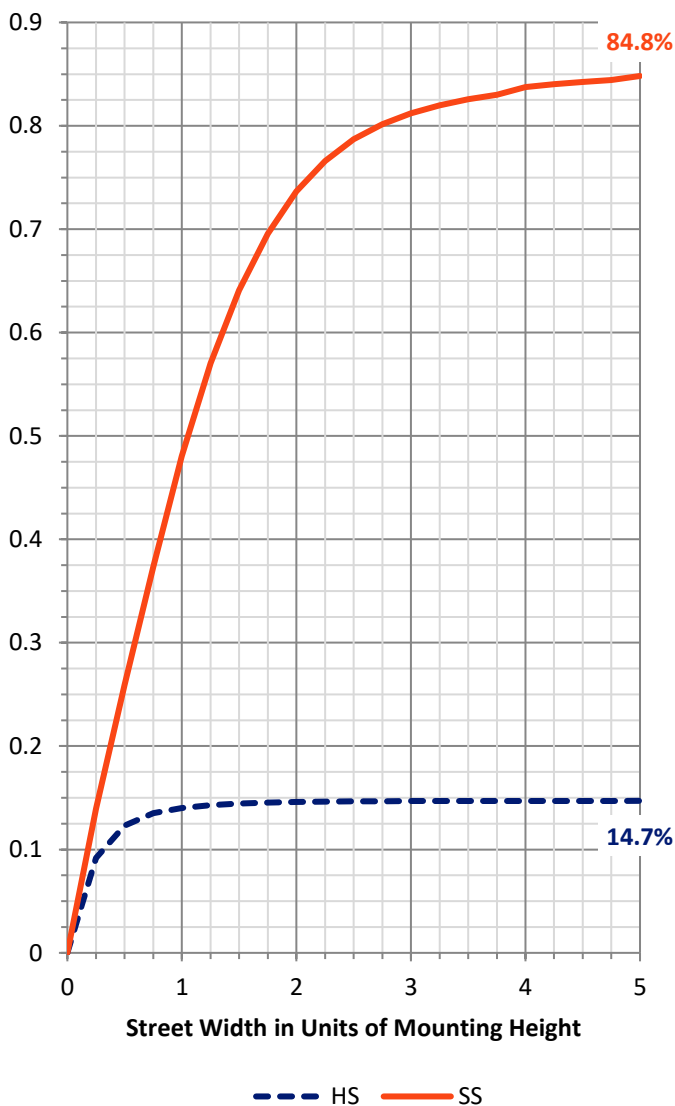
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4086.5	0.0	4086.5
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	23449.2	0.0	23449.2
	% Fixture	85.2	0.0	85.2
Total	Lumens	27535.8	0.0	27535.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	690.4	2.5
10°-20°	1359.6	4.9
20°-30°	2012.5	7.3
30°-40°	2999.8	10.9
40°-50°	4393.2	16.0
50°-60°	6342.4	23.0
60°-70°	6671.9	24.2
70°-80°	2744.6	10.0
80°-90°	321.4	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°	27535.8	100.0
0°-180°	27535.8	100.0

Coefficient of Utilization

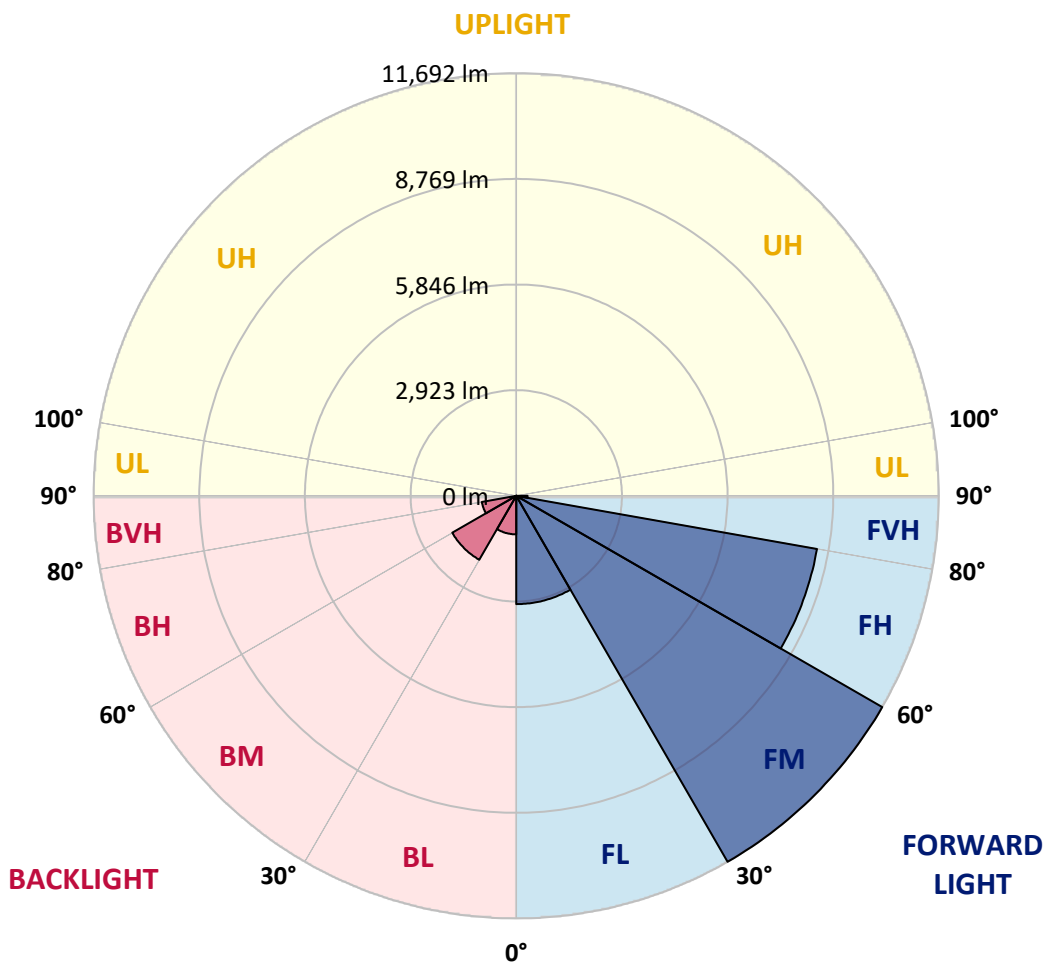


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2996.3	10.9			
FM (30°-60°)	11691.7	42.5			
FH (60°-80°)	8449.2	30.7			G4/12000
FVH (80°-90°)	312.0	1.1			G3/500
BL (0°-30°)	1066.2	3.9	B3/2500		
BM (30°-60°)	2043.6	7.4	B2/2500		
BH (60°-80°)	967.3	3.5	B2/1000		G2/1000
BVH (80°-90°)	9.5	0.0			G0/10
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°	9323.5	9323.5	9323.5	9323.5	9323.5	9323.5	9323.5	9323.5	9323.5	9323.5	9323.5
2.5°	10186.1	10169.2	10319.7	10565.6	10813.5	10942.8	10917.4	10906.8	10701.2	10550.7	10234.9
5°	10165.0	10251.9	10521.0	11186.6	11691.0	11934.7	12006.8	11703.7	11303.2	10722.4	10006.0
7.5°	9556.7	9664.8	10103.5	11144.1	12040.7	12570.5	12551.5	12066.1	11239.5	10340.8	9319.3
10°	8802.2	8929.3	9444.3	10707.5	11871.1	12570.5	12608.7	11994.1	10966.1	9813.1	8738.6
12.5°	8270.1	8420.6	8990.8	10300.6	11434.5	12123.3	12167.8	11722.8	10760.5	9609.7	8422.7
15°	8090.0	8232.0	8810.6	10095.0	10970.4	11341.3	11330.6	11284.0	10680.0	9658.4	8439.7
17.5°	8399.5	8516.0	9168.8	10188.2	10535.9	10497.7	10552.8	10777.5	10697.0	10067.5	8973.8
20°	9198.4	9317.2	10018.7	10474.4	10203.1	9961.5	9986.9	10362.1	10853.8	10836.8	9808.9
22.5°	10298.5	10499.9	11135.7	11029.7	10158.6	9628.7	9575.8	10063.2	11120.9	11722.8	10936.5
25°	11691.0	11894.5	12390.4	11915.6	10376.9	9550.3	9501.5	9972.1	11445.1	12587.5	12206.0
27.5°	12860.9	13015.7	13509.5	12778.2	10699.1	9584.2	9503.7	9984.8	11708.0	13323.0	13276.3
30°	13797.7	13912.2	14202.5	13180.9	10976.7	9732.6	9639.4	10171.3	11824.5	13681.1	14143.2
32.5°	14552.3	14745.1	14836.3	13611.2	11375.2	10012.4	9853.4	10529.5	12108.5	14124.1	15052.5
35°	15414.8	15637.4	15520.9	14022.4	11900.8	10449.0	10254.0	11110.2	12538.7	14533.2	16108.0
37.5°	16508.5	16765.0	16309.3	14454.7	12456.1	11106.0	11014.9	11926.3	13191.6	15118.2	17239.7
40°	17640.3	17788.7	17074.4	14980.4	13138.6	12061.9	12148.8	13138.6	14045.7	15819.7	18443.6
42.5°	18524.1	18664.1	17860.8	15421.3	13835.8	13195.8	13558.2	14601.0	15024.9	16538.2	19342.2
45°	19200.3	19319.0	18405.4	15902.3	14776.9	14838.4	15523.0	16108.0	16006.2	16976.9	20035.3
47.5°	19725.9	19827.6	18825.1	16419.5	16186.3	16847.7	17894.7	18142.7	17023.5	17451.7	20662.7
50°	19942.1	19971.7	18956.5	17078.6	17786.5	19408.0	20499.5	20349.0	18189.2	17979.4	21330.3
52.5°	20224.0	20217.6	19331.6	17706.1	19291.4	21697.0	22786.4	22445.2	19507.6	18770.0	22080.6
55°	20963.7	20972.1	20134.9	18596.2	20573.6	23545.1	24710.9	24462.9	20898.0	20105.2	22955.9
57.5°	21862.3	21894.1	21277.3	19636.9	21798.7	24884.7	26147.9	26052.4	22777.9	21591.0	23782.5
59°	21978.9	22042.5	21817.8	20370.2	22525.7	25295.8	26639.5	26732.8	23784.6	22570.2	24229.8
60°	21766.9	21872.9	21974.7	20785.6	22951.7	25444.2	26669.2	26851.5	24541.3	23235.7	24433.2
62.5°	20842.8	21010.2	21521.1	22063.6	23483.7	24982.2	25721.9	26103.3	25478.1	24984.3	24452.3
65°	19632.6	19719.5	20457.1	22290.4	22451.5	22824.5	23053.4	23543.0	24352.6	25658.3	23576.9
67.5°	17648.8	17905.3	18808.1	20974.2	19405.9	18965.0	18907.7	18420.3	20522.8	24051.7	21419.4
70°	14579.8	14694.2	15807.0	17195.2	14645.5	13967.3	14238.5	14056.3	15908.7	20705.1	17239.7
72.5°	11025.5	11284.0	12371.3	13706.6	9965.7	9086.2	9834.3	9766.5	11949.5	16639.9	11843.6
75°	7844.2	8011.6	9397.7	10726.6	6979.4	5913.3	6182.5	6434.7	8342.2	13138.6	6998.5
77.5°	5389.8	5533.9	6574.6	7093.8	5091.0	4876.9	4461.5	4705.2	5466.1	7795.4	3808.7
80°	3251.3	3244.9	3929.5	4056.6	3545.9	4118.1	3454.8	3878.6	3304.3	3336.0	1475.2
82.5°	2111.0	2089.8	2403.5	2619.7	1973.2	2075.0	1392.5	2007.1	2153.4	930.4	466.3
85°	945.3	985.6	1155.1	1523.9	864.7	459.9	284.0	616.8	917.8	468.4	0.0
87.5°	97.5	76.3	203.5	370.9	118.7	12.7	42.4	21.2	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°	9323.5	9323.5	9323.5	9323.5	9323.5	9323.5	9323.5	9323.5	9323.5	9323.5	9323.5
2.5°	10088.6	9965.7	9599.0	9255.7	8961.1	8600.8	8367.7	8001.0	7778.5	7710.6	7721.2
5°	9683.8	9329.9	8632.6	8075.2	7454.2	7100.2	6561.9	6044.7	5764.9	5661.1	5614.5
7.5°	8836.1	8456.6	7615.2	6739.9	6074.4	5453.4	5052.8	4597.1	4285.6	4029.1	3984.6
10°	8206.5	7708.5	6665.8	5724.7	5199.0	4732.8	4332.2	3876.5	3509.8	3217.3	3136.8
12.5°	7829.3	7271.9	6108.3	5319.9	4821.8	4342.8	3821.4	3293.7	2918.5	2602.7	2456.4
15°	7761.5	7115.0	5951.4	5029.5	4414.9	3836.2	3143.2	2573.0	2187.3	1888.4	1797.3
17.5°	8170.5	7396.9	5928.2	4726.4	3882.9	3062.6	2342.0	1869.3	1434.8	1267.4	1201.7
20°	8899.7	7895.0	5926.1	4374.5	3336.0	2358.9	1644.7	1218.7	1042.8	962.2	924.1
22.5°	9893.7	8573.2	6038.3	4071.5	2768.1	1740.1	1174.2	970.7	869.0	803.3	788.4
25°	11108.1	9577.9	6313.9	3865.9	2333.5	1364.9	968.6	830.8	746.0	716.4	703.7
27.5°	12186.9	10540.1	6617.0	3653.9	2021.9	1208.1	898.6	760.9	693.0	669.8	650.7
30°	13117.4	11413.3	6763.2	3374.2	1771.9	1106.4	911.3	813.9	724.8	654.9	623.1
32.5°	13893.1	12083.1	6858.6	3119.9	1559.9	905.0	720.6	629.5	589.2	563.8	542.6
35°	14863.8	12807.9	6801.4	2975.7	1451.8	824.5	657.0	542.6	474.7	423.9	402.7
37.5°	15881.2	13532.8	6701.8	2857.0	1403.1	765.1	625.2	515.1	440.8	387.9	360.3
40°	16934.6	14204.6	6585.2	2746.8	1358.6	727.0	606.2	491.7	417.6	360.3	330.7
42.5°	17898.9	14859.6	6538.5	2674.7	1286.5	733.4	591.3	481.2	394.2	334.9	309.4
45°	18678.9	15480.6	6602.1	2636.6	1208.1	722.7	595.5	468.4	375.1	317.9	292.5
47.5°	19511.8	16358.0	6807.7	2598.5	1131.8	671.9	627.3	466.3	366.7	307.3	279.8
50°	20480.4	17481.3	7278.2	2505.2	1038.6	616.8	667.7	464.2	356.1	294.6	267.1
52.5°	21771.2	18757.3	7763.6	2342.0	902.9	563.8	638.0	457.8	334.9	279.8	252.2
55°	22930.5	20101.0	8174.8	2149.1	731.2	487.5	574.4	430.3	298.9	254.3	228.9
57.5°	23409.5	20859.8	8162.1	1882.1	585.0	428.1	472.6	394.2	260.7	224.6	203.5
59°	23233.6	20764.4	7888.6	1684.9	534.1	396.4	392.1	390.0	243.7	203.5	186.5
60°	22985.6	20416.8	7594.1	1587.5	502.3	375.1	360.3	385.7	228.9	190.7	173.8
62.5°	22036.1	18975.6	6617.0	1422.2	459.9	317.9	288.2	326.4	203.5	165.3	150.5
65°	20660.6	16760.7	5601.7	1375.5	447.2	262.8	239.5	233.2	173.8	139.9	127.2
67.5°	17977.3	14183.5	4537.8	1343.7	451.5	220.4	209.8	175.9	144.2	116.6	108.1
70°	14393.3	11059.4	3715.4	1307.7	455.7	180.2	175.9	139.9	116.6	97.5	89.0
72.5°	8744.9	6555.5	2924.9	1136.1	442.9	144.2	156.8	105.9	84.8	69.9	65.7
75°	5406.8	4486.9	1814.3	883.9	292.5	105.9	110.2	65.7	57.2	44.5	44.5
77.5°	3132.5	2833.8	648.6	317.9	129.3	63.6	48.8	33.9	31.8	19.1	19.1
80°	1299.2	1040.7	224.6	108.1	69.9	29.7	10.6	2.1	0.0	0.0	0.0
82.5°	379.4	337.0	61.5	48.8	21.2	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°	9323.5	9323.5	9323.5	9323.5	9323.5	9323.5	9323.5	9323.5	9323.5	9323.5	9323.5
2.5°	7541.1	7471.2	7439.4	7547.4	7447.8	7575.0	7477.5	7519.9	7644.9	7700.0	7842.1
5°	5644.2	5572.1	5538.2	5701.3	5692.9	5773.5	5764.9	5839.1	5902.7	5760.7	5907.0
7.5°	3931.6	3882.9	3963.4	4090.5	4226.2	4181.7	4181.7	4082.1	4116.0	4094.8	4088.4
10°	2990.6	2823.1	2780.7	2776.5	2827.3	2838.0	2780.7	2642.9	2693.8	2708.7	2797.7
12.5°	2352.6	2223.3	2026.2	1937.2	1913.9	1933.0	1744.3	1623.5	1680.7	1646.8	1733.7
15°	1687.1	1581.1	1464.5	1364.9	1337.4	1299.2	1093.6	949.5	932.6	938.9	953.8
17.5°	1203.9	1131.8	1131.8	1025.8	968.6	854.2	750.3	686.7	680.3	686.7	697.3
20°	888.1	849.9	845.6	818.1	754.5	678.2	606.2	593.4	589.2	599.8	604.1
22.5°	765.1	724.8	690.9	688.8	629.5	565.9	532.0	515.1	517.2	521.4	532.0
25°	684.6	642.2	606.2	585.0	542.6	498.1	466.3	457.8	457.8	464.2	466.3
27.5°	627.3	574.4	542.6	512.9	474.7	436.6	409.0	402.7	398.5	402.7	413.3
30°	587.1	534.1	493.8	449.4	419.7	383.6	360.3	351.8	349.7	351.8	360.3
32.5°	502.3	470.5	438.7	398.5	362.5	339.1	313.7	298.9	298.9	303.1	311.6
35°	379.4	362.5	360.3	349.7	320.0	294.6	265.0	250.1	250.1	258.5	262.8
37.5°	334.9	303.1	298.9	294.6	281.9	248.0	220.4	207.7	205.6	212.0	220.4
40°	305.2	269.2	250.1	245.9	248.0	209.8	180.2	167.4	167.4	169.5	178.1
42.5°	281.9	239.5	205.6	201.4	209.8	175.9	146.3	133.5	133.5	133.5	144.2
45°	262.8	214.1	173.8	152.6	165.3	144.2	118.7	105.9	101.7	105.9	110.2
47.5°	250.1	195.0	152.6	122.9	122.9	114.5	95.4	80.6	76.3	78.5	84.8
50°	239.5	178.1	129.3	99.6	89.0	91.1	72.0	61.5	57.2	57.2	63.6
52.5°	222.5	161.1	112.4	84.8	67.8	61.5	53.0	44.5	42.4	44.5	48.8
55°	201.4	146.3	97.5	69.9	53.0	42.4	38.1	31.8	29.7	31.8	38.1
57.5°	178.1	122.9	78.5	55.1	36.0	27.6	25.4	21.2	17.0	19.1	23.3
59°	163.2	110.2	67.8	44.5	27.6	19.1	19.1	14.8	10.6	12.7	19.1
60°	156.8	101.7	57.2	38.1	23.3	14.8	14.8	10.6	6.3	8.5	14.8
62.5°	133.5	84.8	44.5	23.3	10.6	2.1	6.3	2.1	0.0	2.1	6.3
65°	112.4	67.8	29.7	10.6	0.0	0.0	0.0	0.0	0.0	0.0	2.1
67.5°	93.3	50.9	14.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	74.2	33.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	50.9	19.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	31.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.7	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°	9323.5	9323.5	9323.5	9323.5	9323.5	9323.5	9323.5	9323.5	9323.5	9323.5
2.5°	7850.5	8153.6	8340.1	8691.9	9052.3	9329.9	9677.5	9989.0	10118.3	10186.1
5°	6055.3	6477.1	6835.3	7371.5	7869.5	8475.7	9090.4	9815.2	10092.9	10165.0
7.5°	4249.5	4679.8	5054.9	5676.0	6385.9	7197.7	8117.5	9037.4	9442.2	9556.7
10°	3069.0	3528.9	3986.7	4607.7	5271.1	6150.7	7108.7	8246.9	8713.1	8802.2
12.5°	1937.2	2431.1	3175.0	3942.2	4643.7	5351.6	6354.1	7591.9	8106.9	8270.1
15°	1123.3	1492.1	2053.7	3054.2	3946.5	4883.3	5976.9	7346.1	7922.6	8090.0
17.5°	752.4	879.5	1265.3	2030.5	3208.9	4450.9	5881.5	7547.4	8185.4	8399.5
20°	633.7	690.9	826.6	1237.8	2471.3	4065.1	5907.0	8094.3	8931.4	9198.4
22.5°	557.4	610.4	697.3	890.2	1725.3	3586.1	6027.8	8876.3	9957.3	10298.5
25°	491.7	544.7	621.0	737.6	1159.3	3033.0	6292.7	10020.8	11315.8	11691.0
27.5°	436.6	485.4	551.1	650.7	892.3	2416.2	6527.9	11135.7	12555.7	12860.9
30°	385.7	426.0	489.6	565.9	741.8	1863.0	6646.7	12110.7	13458.6	13797.7
32.5°	334.9	373.0	434.5	496.0	610.4	1420.0	6564.0	12827.0	14336.1	14552.3
35°	286.1	326.4	377.2	434.5	527.7	1146.6	6150.7	13632.4	15245.3	15414.8
37.5°	245.9	279.8	332.8	377.2	476.8	917.8	5650.5	14357.2	16264.8	16508.5
40°	207.7	241.6	294.6	334.9	438.7	722.7	5199.0	15162.6	17339.4	17640.3
42.5°	169.5	209.8	256.4	322.1	377.2	551.1	4652.2	15815.4	18146.9	18524.1
45°	135.6	180.2	231.0	320.0	328.5	419.7	4124.5	16324.1	18861.1	19200.3
47.5°	108.1	152.6	222.5	298.9	269.2	332.8	3823.5	16856.1	19454.6	19725.9
50°	86.9	127.2	233.2	262.8	224.6	281.9	3815.0	17449.5	19761.9	19942.1
52.5°	69.9	103.8	197.1	201.4	190.7	248.0	4044.0	18117.2	20075.6	20224.0
55°	59.4	86.9	129.3	148.4	171.7	224.6	4215.6	19145.1	20823.7	20963.7
57.5°	46.7	74.2	99.6	118.7	152.6	205.6	4238.9	19937.8	21771.2	21862.3
59°	40.2	63.6	89.0	105.9	139.9	192.9	4143.6	19986.5	21832.6	21978.9
60°	33.9	57.2	78.5	99.6	129.3	182.3	4039.7	19632.6	21603.8	21766.9
62.5°	25.4	44.5	57.2	80.6	105.9	156.8	3548.0	18397.0	20728.4	20842.8
65°	17.0	31.8	42.4	59.4	82.7	135.6	2890.9	16794.6	19376.2	19632.6
67.5°	10.6	23.3	33.9	44.5	67.8	114.5	2060.2	14401.8	17483.5	17648.8
70°	6.3	14.8	25.4	36.0	53.0	91.1	1223.0	11383.6	14545.9	14579.8
72.5°	4.2	10.6	17.0	25.4	42.4	82.7	593.4	7420.3	10620.6	11025.5
75°	2.1	6.3	10.6	19.1	33.9	67.8	284.0	4957.4	7727.6	7844.2
77.5°	0.0	2.1	6.3	12.7	25.4	53.0	165.3	3255.5	5269.0	5389.8
80°	0.0	0.0	4.2	10.6	19.1	33.9	99.6	1920.2	3191.9	3251.3
82.5°	0.0	0.0	2.1	8.5	12.7	25.4	50.9	843.5	2089.8	2111.0
85°	0.0	0.0	2.1	8.5	10.6	17.0	19.1	114.5	928.3	945.3
87.5°	0.0	0.0	2.1	10.6	10.6	10.6	10.6	6.3	78.5	97.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)