

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: P457307

Luminaire Tested: **GALN-SA8C-827-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457307
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-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 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: 29971 lumens
Efficiency: N/A
Efficacy: 69.9 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

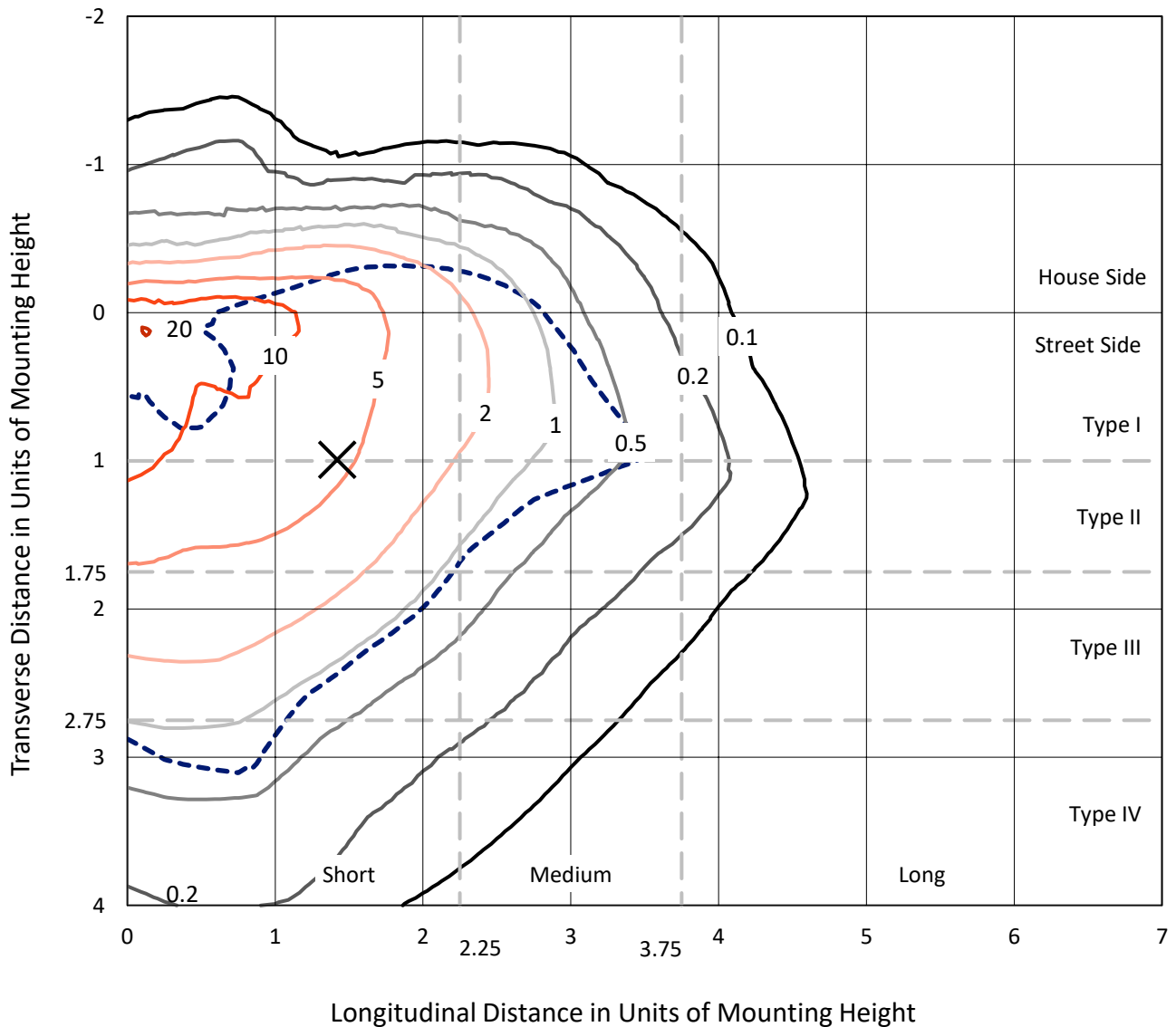
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

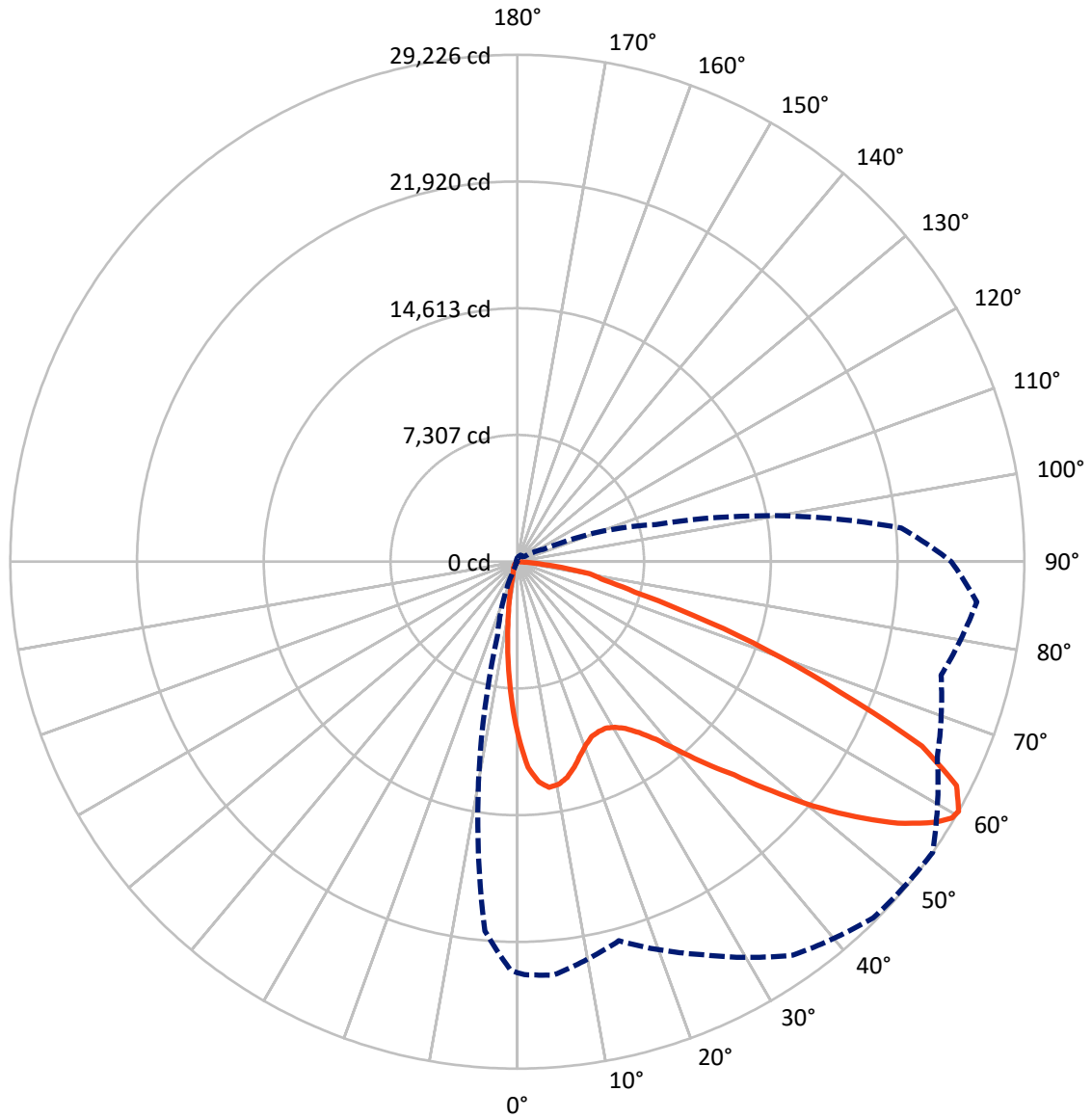
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 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	4448.0	0.0	4448.0
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	25523.0	0.0	25523.0
	% Fixture	85.2	0.0	85.2
Total	Lumens	29971.0	0.0	29971.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.5	2.5
10°-20°	1479.8	4.9
20°-30°	2190.4	7.3
30°-40°	3265.1	10.9
40°-50°	4781.7	16.0
50°-60°	6903.3	23.0
60°-70°	7261.9	24.2
70°-80°	2987.3	10.0
80°-90°	349.9	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°	29971.0	100.0
0°-180°	29971.0	100.0

Coefficient of Utilization



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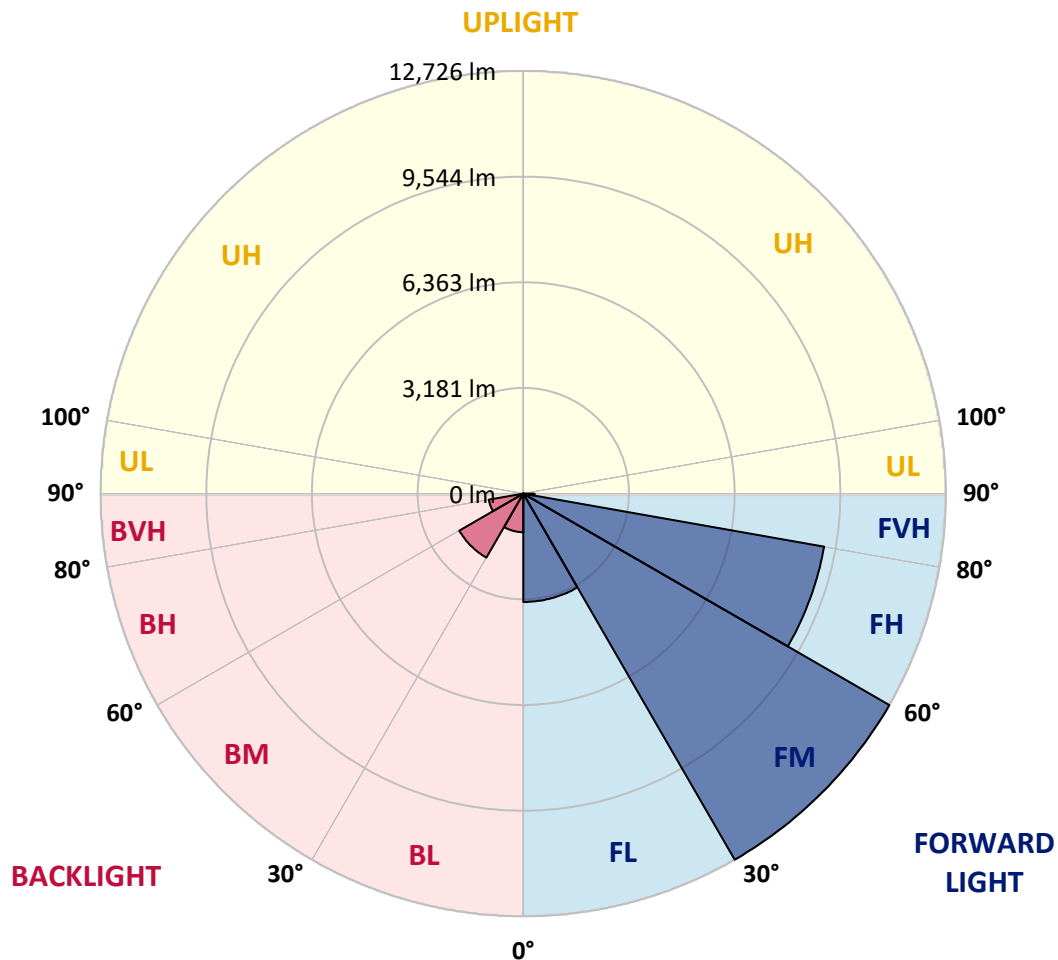
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3261.3	10.9			
FM	(30°-60°)	12725.7	42.5			
FH	(60°-80°)	9196.5	30.7			G4/12000
FVH	(80°-90°)	339.6	1.1			G3/500
BL	(0°-30°)	1160.5	3.9	B3/2500		
BM	(30°-60°)	2224.4	7.4	B2/2500		
BH	(60°-80°)	1052.8	3.5	B3/2500		G3/2500
BVH	(80°-90°)	10.3	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°	10148.1	10148.1	10148.1	10148.1	10148.1	10148.1	10148.1	10148.1	10148.1	10148.1	10148.1
2.5°	11087.0	11068.6	11232.3	11499.9	11769.9	11910.6	11882.9	11871.4	11647.6	11483.8	11140.1
5°	11063.9	11158.5	11451.5	12175.9	12724.9	12990.2	13068.6	12738.8	12302.8	11670.7	10890.9
7.5°	10401.9	10519.5	10997.0	12129.7	13105.6	13682.3	13661.5	13133.2	12233.5	11255.4	10143.5
10°	9580.6	9719.0	10279.6	11654.5	12921.0	13682.3	13723.8	13054.8	11936.0	10681.0	9511.4
12.5°	9001.6	9165.4	9785.9	11211.6	12445.8	13195.5	13244.0	12759.5	11712.2	10459.5	9167.7
15°	8805.5	8960.0	9589.8	10987.8	11940.6	12344.3	12332.7	12282.0	11624.5	10512.6	9186.1
17.5°	9142.3	9269.2	9979.7	11089.3	11467.7	11426.1	11486.1	11730.6	11643.0	10957.8	9767.5
20°	10012.0	10141.2	10904.8	11400.7	11105.5	10842.5	10870.2	11278.5	11813.7	11795.2	10676.4
22.5°	11209.3	11428.4	12120.5	12005.2	11057.0	10480.3	10422.6	10953.2	12104.4	12759.5	11903.7
25°	12724.9	12946.4	13486.2	12969.4	11294.6	10394.9	10341.9	10854.0	12457.3	13700.7	13285.5
27.5°	13998.3	14166.7	14704.2	13908.4	11645.3	10431.8	10344.2	10867.9	12743.4	14501.2	14450.5
30°	15018.0	15142.6	15458.6	14346.7	11947.5	10593.3	10491.8	11070.9	12870.3	14891.1	15394.0
32.5°	15839.2	16049.2	16148.4	14815.0	12381.2	10897.8	10724.8	11460.7	13179.4	15373.2	16383.7
35°	16778.2	17020.4	16893.5	15262.5	12953.3	11373.1	11160.8	12092.8	13647.7	15818.5	17532.5
37.5°	17968.5	18247.7	17751.7	15733.1	13557.7	12088.2	11989.0	12981.0	14358.2	16455.2	18764.4
40°	19200.4	19361.9	18584.5	16305.2	14300.5	13128.6	13223.2	14300.5	15287.9	17218.8	20074.7
42.5°	20162.4	20314.7	19440.3	16785.1	15059.5	14362.8	14757.3	15892.3	16353.7	18000.8	21052.9
45°	20898.3	21027.5	20033.2	17308.7	16083.8	16150.7	16895.8	17532.5	17421.8	18478.4	21807.2
47.5°	21470.4	21581.1	20490.0	17871.6	17617.9	18337.6	19477.2	19747.2	18529.1	18995.1	22490.1
50°	21705.7	21738.0	20633.0	18589.1	19359.6	21124.4	22312.4	22148.6	19797.9	19569.5	23216.7
52.5°	22012.5	22005.6	21041.3	19271.9	20997.5	23615.8	24801.6	24430.2	21232.8	20430.0	24033.4
55°	22817.6	22826.9	21915.6	20240.8	22393.2	25627.5	26896.3	26626.4	22746.1	21883.3	24986.1
57.5°	23795.8	23830.4	23159.1	21373.5	23726.6	27085.4	28460.4	28356.5	24792.4	23500.5	25885.8
59°	23922.7	23991.9	23747.3	22171.7	24517.8	27533.0	28995.6	29097.1	25888.1	24566.3	26372.6
60°	23692.0	23807.3	23918.0	22623.9	24981.5	27694.5	29027.9	29226.2	26711.7	25290.7	26594.1
62.5°	22686.2	22868.4	23424.4	24014.9	25560.6	27191.5	27996.7	28411.9	27731.4	27193.9	26614.8
65°	21368.9	21463.5	22266.3	24261.8	24437.1	24843.1	25092.3	25625.2	26506.4	27927.5	25662.1
67.5°	19209.6	19488.8	20471.5	22829.2	21122.1	20642.2	20579.9	20049.4	22337.8	26178.8	23313.6
70°	15869.2	15993.8	17204.9	18716.0	15940.7	15202.5	15497.8	15299.4	17315.7	22536.2	18764.4
72.5°	12000.5	12282.0	13465.4	14918.8	10847.1	9889.7	10704.1	10630.2	13006.4	18111.6	12891.0
75°	8537.9	8720.1	10228.8	11675.3	7596.7	6436.3	6729.3	7003.8	9080.0	14300.5	7617.4
77.5°	5866.5	6023.3	7156.0	7721.2	5541.2	5308.2	4856.0	5121.3	5949.5	8484.8	4145.5
80°	3538.8	3531.9	4277.0	4415.4	3859.5	4482.3	3760.3	4221.6	3596.5	3631.1	1605.6
82.5°	2297.7	2274.6	2616.0	2851.3	2147.7	2258.5	1515.6	2184.6	2343.8	1012.7	507.5
85°	1028.9	1072.7	1257.3	1658.7	941.2	500.6	309.1	671.3	998.9	509.8	0.0
87.5°	106.1	83.0	221.5	403.7	129.2	13.8	46.1	23.1	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°	10148.1	10148.1	10148.1	10148.1	10148.1	10148.1	10148.1	10148.1	10148.1	10148.1	10148.1
2.5°	10980.9	10847.1	10448.0	10074.3	9753.6	9361.4	9107.7	8708.6	8466.4	8392.5	8404.1
5°	10540.3	10155.0	9396.0	8789.3	8113.4	7728.1	7142.2	6579.3	6274.8	6161.8	6111.0
7.5°	9617.5	9204.6	8288.7	7336.0	6611.6	5935.7	5499.7	5003.7	4664.6	4385.4	4337.0
10°	8932.4	8390.2	7255.2	6231.0	5658.9	5151.3	4715.3	4219.3	3820.2	3501.9	3414.2
12.5°	8521.7	7915.0	6648.5	5790.3	5248.2	4726.9	4159.4	3584.9	3176.6	2832.9	2673.7
15°	8447.9	7744.3	6477.8	5474.3	4805.3	4175.5	3421.1	2800.6	2380.7	2055.5	1956.3
17.5°	8893.1	8051.1	6452.4	5144.4	4226.3	3333.5	2549.1	2034.7	1561.8	1379.5	1308.0
20°	9686.7	8593.2	6450.1	4761.5	3631.1	2567.6	1790.2	1326.5	1135.0	1047.3	1005.8
22.5°	10768.7	9331.5	6572.4	4431.6	3012.8	1894.0	1278.0	1056.6	945.8	874.3	858.2
25°	12090.5	10424.9	6872.3	4207.8	2539.9	1485.7	1054.3	904.3	812.0	779.7	765.9
27.5°	13264.7	11472.3	7202.2	3977.1	2200.8	1314.9	978.1	828.2	754.4	729.0	708.2
30°	14277.5	12422.7	7361.4	3672.6	1928.6	1204.2	992.0	885.9	789.0	712.8	678.2
32.5°	15121.8	13151.7	7465.2	3395.8	1697.9	985.1	784.3	685.2	641.3	613.6	590.6
35°	16178.4	13940.7	7402.9	3238.9	1580.2	897.4	715.1	590.6	516.7	461.4	438.3
37.5°	17285.7	14729.6	7294.4	3109.7	1527.2	832.8	680.5	560.6	479.8	422.2	392.2
40°	18432.2	15460.9	7167.6	2989.8	1478.7	791.3	659.8	535.2	454.5	392.2	359.9
42.5°	19481.9	16173.7	7116.8	2911.3	1400.3	798.2	643.6	523.7	429.1	364.5	336.8
45°	20330.8	16849.7	7186.0	2869.8	1314.9	786.7	648.2	509.8	408.3	346.0	318.4
47.5°	21237.4	17804.7	7409.8	2828.3	1231.9	731.3	682.8	507.5	399.1	334.5	304.5
50°	22291.7	19027.4	7921.9	2726.8	1130.4	671.3	726.7	505.2	387.6	320.7	290.7
52.5°	23696.6	20416.2	8450.2	2549.1	982.7	613.6	694.4	498.3	364.5	304.5	274.5
55°	24958.5	21878.7	8897.8	2339.2	795.9	530.6	625.2	468.3	325.3	276.8	249.1
57.5°	25479.8	22704.6	8883.9	2048.5	636.7	466.0	514.4	429.1	283.7	244.5	221.5
59°	25288.3	22600.8	8586.3	1834.0	581.3	431.4	426.8	424.5	265.3	221.5	203.0
60°	25018.4	22222.5	8265.7	1727.9	546.7	408.3	392.2	419.9	249.1	207.6	189.2
62.5°	23984.9	20653.8	7202.2	1547.9	500.6	346.0	313.7	355.3	221.5	179.9	163.8
65°	22487.8	18243.0	6097.2	1497.2	486.8	286.1	260.7	253.8	189.2	152.3	138.4
67.5°	19567.2	15437.8	4939.1	1462.6	491.4	239.9	228.4	191.5	156.9	126.9	117.7
70°	15666.2	12037.5	4044.0	1423.4	496.0	196.1	191.5	152.3	126.9	106.1	96.9
72.5°	9518.3	7135.3	3183.5	1236.5	482.1	156.9	170.7	115.3	92.3	76.1	71.5
75°	5884.9	4883.7	1974.7	962.0	318.4	115.3	120.0	71.5	62.3	48.4	48.4
77.5°	3409.6	3084.3	705.9	346.0	140.7	69.2	53.1	36.9	34.6	20.8	20.8
80°	1414.1	1132.7	244.5	117.7	76.1	32.3	11.5	2.3	0.0	0.0	0.0
82.5°	412.9	366.8	66.9	53.1	23.1	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°	10148.1	10148.1	10148.1	10148.1	10148.1	10148.1	10148.1	10148.1	10148.1	10148.1	10148.1
2.5°	8208.0	8131.9	8097.3	8214.9	8106.5	8244.9	8138.8	8184.9	8321.0	8381.0	8535.6
5°	6143.3	6064.9	6028.0	6205.6	6196.4	6284.0	6274.8	6355.5	6424.7	6270.2	6429.4
7.5°	4279.3	4226.3	4313.9	4452.3	4600.0	4551.5	4551.5	4443.1	4480.0	4457.0	4450.0
10°	3255.1	3072.8	3026.7	3022.1	3077.4	3089.0	3026.7	2876.7	2932.1	2948.2	3045.1
12.5°	2560.7	2419.9	2205.4	2108.5	2083.1	2103.9	1898.6	1767.1	1829.4	1792.5	1887.1
15°	1836.3	1721.0	1594.1	1485.7	1455.7	1414.1	1190.4	1033.5	1015.0	1022.0	1038.1
17.5°	1310.3	1231.9	1231.9	1116.5	1054.3	929.7	816.6	747.4	740.5	747.4	759.0
20°	966.6	925.1	920.5	890.5	821.3	738.2	659.8	645.9	641.3	652.9	657.5
22.5°	832.8	789.0	752.1	749.7	685.2	615.9	579.0	560.6	562.9	567.5	579.0
25°	745.1	699.0	659.8	636.7	590.6	542.1	507.5	498.3	498.3	505.2	507.5
27.5°	682.8	625.2	590.6	558.3	516.7	475.2	445.2	438.3	433.7	438.3	449.8
30°	639.0	581.3	537.5	489.1	456.8	417.6	392.2	382.9	380.6	382.9	392.2
32.5°	546.7	512.1	477.5	433.7	394.5	369.1	341.4	325.3	325.3	329.9	339.1
35°	412.9	394.5	392.2	380.6	348.3	320.7	288.4	272.2	272.2	281.4	286.1
37.5°	364.5	329.9	325.3	320.7	306.8	269.9	239.9	226.1	223.8	230.7	239.9
40°	332.2	293.0	272.2	267.6	269.9	228.4	196.1	182.2	182.2	184.6	193.8
42.5°	306.8	260.7	223.8	219.2	228.4	191.5	159.2	145.3	145.3	145.3	156.9
45°	286.1	233.0	189.2	166.1	179.9	156.9	129.2	115.3	110.7	115.3	120.0
47.5°	272.2	212.2	166.1	133.8	133.8	124.6	103.8	87.7	83.0	85.4	92.3
50°	260.7	193.8	140.7	108.4	96.9	99.2	78.4	66.9	62.3	62.3	69.2
52.5°	242.2	175.3	122.3	92.3	73.8	66.9	57.7	48.4	46.1	48.4	53.1
55°	219.2	159.2	106.1	76.1	57.7	46.1	41.5	34.6	32.3	34.6	41.5
57.5°	193.8	133.8	85.4	60.0	39.2	30.0	27.7	23.1	18.5	20.8	25.4
59°	177.6	120.0	73.8	48.4	30.0	20.8	20.8	16.1	11.5	13.8	20.8
60°	170.7	110.7	62.3	41.5	25.4	16.1	16.1	11.5	6.9	9.2	16.1
62.5°	145.3	92.3	48.4	25.4	11.5	2.3	6.9	2.3	0.0	2.3	6.9
65°	122.3	73.8	32.3	11.5	0.0	0.0	0.0	0.0	0.0	0.0	2.3
67.5°	101.5	55.4	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	80.7	36.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	55.4	20.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	34.6	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.8	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°	10148.1	10148.1	10148.1	10148.1	10148.1	10148.1	10148.1	10148.1	10148.1	10148.1
2.5°	8544.8	8874.7	9077.7	9460.6	9852.8	10155.0	10533.4	10872.5	11013.2	11087.0
5°	6590.8	7049.9	7439.8	8023.4	8565.6	9225.3	9894.3	10683.3	10985.5	11063.9
7.5°	4625.4	5093.7	5502.0	6177.9	6950.7	7834.3	8835.5	9836.7	10277.3	10401.9
10°	3340.4	3841.0	4339.3	5015.2	5737.3	6694.7	7737.4	8976.2	9483.7	9580.6
12.5°	2108.5	2646.0	3455.8	4290.9	5054.4	5824.9	6916.1	8263.4	8823.9	9001.6
15°	1222.7	1624.1	2235.4	3324.3	4295.5	5315.1	6505.5	7995.8	8623.2	8805.5
17.5°	819.0	957.4	1377.2	2210.0	3492.7	4844.5	6401.7	8214.9	8909.3	9142.3
20°	689.8	752.1	899.7	1347.2	2689.9	4424.7	6429.4	8810.1	9721.3	10012.0
22.5°	606.7	664.4	759.0	968.9	1877.8	3903.3	6560.9	9661.3	10837.9	11209.3
25°	535.2	592.9	675.9	802.8	1261.9	3301.2	6849.2	10907.1	12316.6	12724.9
27.5°	475.2	528.3	599.8	708.2	971.2	2629.9	7105.3	12120.5	13666.1	13998.3
30°	419.9	463.7	532.9	615.9	807.4	2027.8	7234.5	13181.7	14648.9	15018.0
32.5°	364.5	406.0	472.9	539.8	664.4	1545.6	7144.5	13961.4	15603.9	15839.2
35°	311.4	355.3	410.6	472.9	574.4	1248.0	6694.7	14838.0	16593.6	16778.2
37.5°	267.6	304.5	362.2	410.6	519.1	998.9	6150.2	15627.0	17703.2	17968.5
40°	226.1	263.0	320.7	364.5	477.5	786.7	5658.9	16503.6	18872.8	19200.4
42.5°	184.6	228.4	279.1	350.7	410.6	599.8	5063.7	17214.2	19751.8	20162.4
45°	147.6	196.1	251.5	348.3	357.6	456.8	4489.2	17767.8	20529.2	20898.3
47.5°	117.7	166.1	242.2	325.3	293.0	362.2	4161.7	18346.9	21175.1	21470.4
50°	94.6	138.4	253.8	286.1	244.5	306.8	4152.4	18992.8	21509.6	21705.7
52.5°	76.1	113.0	214.5	219.2	207.6	269.9	4401.6	19719.5	21851.1	22012.5
55°	64.6	94.6	140.7	161.5	186.9	244.5	4588.4	20838.3	22665.4	22817.6
57.5°	50.8	80.7	108.4	129.2	166.1	223.8	4613.8	21701.1	23696.6	23795.8
59°	43.8	69.2	96.9	115.3	152.3	209.9	4510.0	21754.2	23763.5	23922.7
60°	36.9	62.3	85.4	108.4	140.7	198.4	4397.0	21368.9	23514.3	23692.0
62.5°	27.7	48.4	62.3	87.7	115.3	170.7	3861.8	20024.0	22561.6	22686.2
65°	18.5	34.6	46.1	64.6	90.0	147.6	3146.6	18280.0	21089.8	21368.9
67.5°	11.5	25.4	36.9	48.4	73.8	124.6	2242.3	15675.5	19029.7	19209.6
70°	6.9	16.1	27.7	39.2	57.7	99.2	1331.1	12390.4	15832.3	15869.2
72.5°	4.6	11.5	18.5	27.7	46.1	90.0	645.9	8076.5	11559.9	12000.5
75°	2.3	6.9	11.5	20.8	36.9	73.8	309.1	5395.9	8411.0	8537.9
77.5°	0.0	2.3	6.9	13.8	27.7	57.7	179.9	3543.4	5735.0	5866.5
80°	0.0	0.0	4.6	11.5	20.8	36.9	108.4	2090.1	3474.2	3538.8
82.5°	0.0	0.0	2.3	9.2	13.8	27.7	55.4	918.2	2274.6	2297.7
85°	0.0	0.0	2.3	9.2	11.5	18.5	20.8	124.6	1010.4	1028.9
87.5°	0.0	0.0	2.3	11.5	11.5	11.5	11.5	6.9	85.4	106.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)