

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: P456263

Luminaire Tested: **GALN-SA7C-730-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456263
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-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 32027 lumens
Efficiency: N/A
Efficacy: 85.0 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

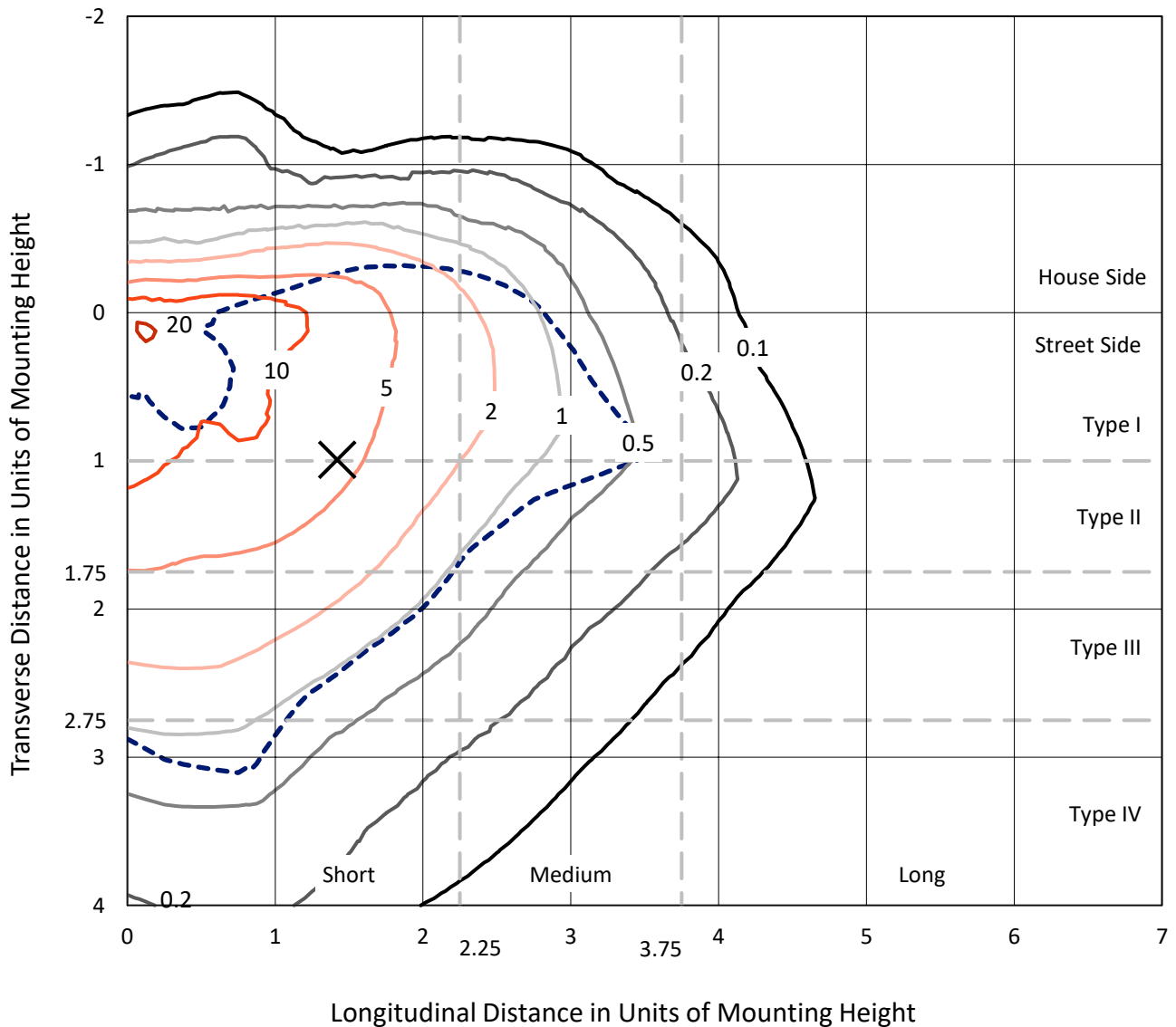
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

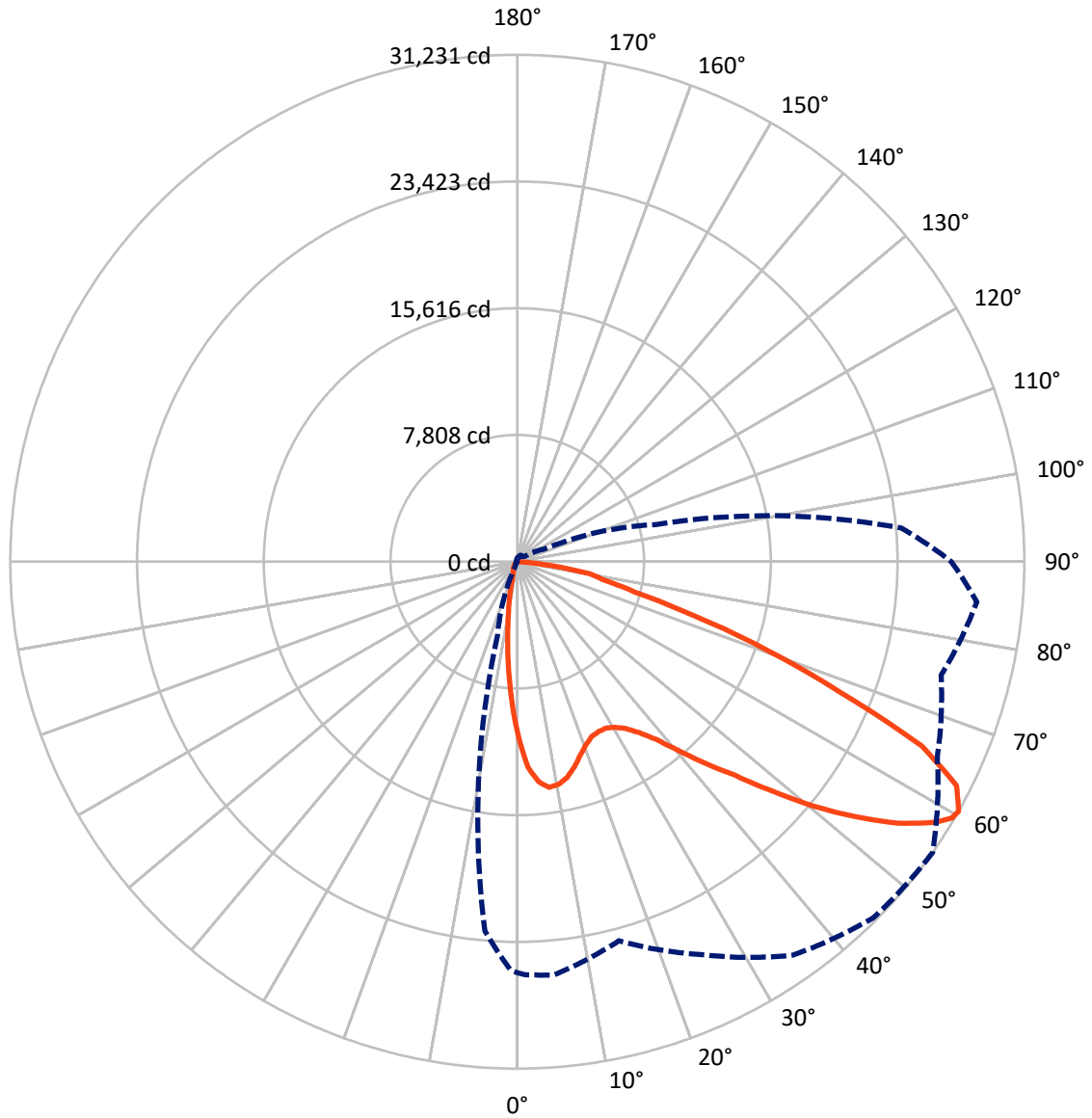
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.4 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	4753.1	0.0	4753.1
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	27273.9	0.0	27273.9
	% Fixture	85.2	0.0	85.2
Total	Lumens	32027.0	0.0	32027.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	803.0	2.5
10°-20°	1581.4	4.9
20°-30°	2340.7	7.3
30°-40°	3489.1	10.9
40°-50°	5109.8	16.0
50°-60°	7376.9	23.0
60°-70°	7760.1	24.2
70°-80°	3192.2	10.0
80°-90°	373.9	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°	32027.0	100.0
0°-180°	32027.0	100.0

Coefficient of Utilization



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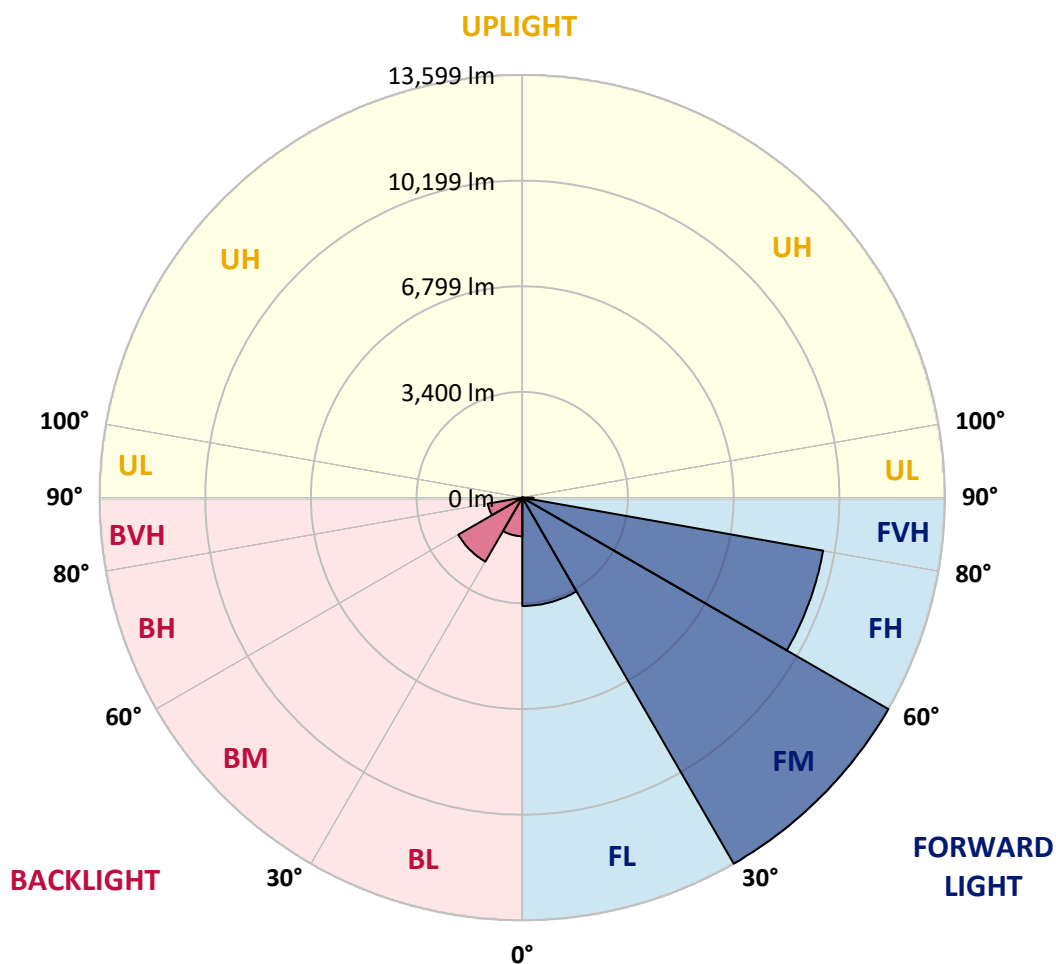
CATALOG NUMBER: GALN-SA7C-730-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3485.0	10.9			
FM	(30°-60°)	13598.7	42.5			
FH	(60°-80°)	9827.3	30.7			G4/12000
FVH	(80°-90°)	362.9	1.1			G3/500
BL	(0°-30°)	1240.1	3.9	B3/2500		
BM	(30°-60°)	2377.0	7.4	B2/2500		
BH	(60°-80°)	1125.0	3.5	B3/2500		G3/2500
BVH	(80°-90°)	11.0	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°	10844.3	10844.3	10844.3	10844.3	10844.3	10844.3	10844.3	10844.3	10844.3	10844.3	10844.3
2.5°	11847.6	11827.9	12002.9	12288.8	12577.3	12727.6	12698.1	12685.7	12446.6	12271.6	11904.3
5°	11822.9	11924.0	12237.1	13011.1	13597.8	13881.3	13965.2	13612.6	13146.7	12471.3	11638.0
7.5°	11115.4	11241.1	11751.4	12961.8	14004.6	14620.9	14598.7	14034.2	13072.8	12027.5	10839.3
10°	10237.8	10385.7	10984.8	12454.0	13807.4	14620.9	14665.3	13950.4	12754.8	11413.7	10163.9
12.5°	9619.1	9794.1	10457.2	11980.7	13299.6	14100.7	14152.5	13634.8	12515.6	11177.1	9796.6
15°	9409.5	9574.7	10247.7	11741.6	12759.7	13191.1	13178.8	13124.5	12422.0	11233.7	9816.3
17.5°	9769.4	9905.0	10664.3	11850.0	12254.3	12210.0	12274.0	12535.4	12441.7	11709.5	10437.5
20°	10698.8	10836.9	11652.8	12182.8	11867.3	11586.3	11615.8	12052.2	12624.1	12604.4	11408.8
22.5°	11978.2	12212.4	12952.0	12828.7	11815.5	11199.2	11137.6	11704.6	12934.7	13634.8	12720.2
25°	13597.8	13834.5	14411.3	13859.1	12069.4	11108.0	11051.3	11598.6	13311.9	14640.6	14196.9
27.5°	14958.6	15138.6	15713.0	14862.5	12444.1	11147.5	11053.8	11613.4	13617.6	15496.0	15441.8
30°	16048.2	16181.3	16519.1	15330.9	12767.1	11320.0	11211.6	11830.3	13753.1	15912.6	16450.0
32.5°	16925.8	17150.1	17256.1	15831.3	13230.5	11645.4	11460.5	12246.9	14083.5	16427.8	17507.6
35°	17929.1	18188.0	18052.4	16309.5	13841.9	12153.3	11926.5	12922.4	14583.9	16903.6	18735.2
37.5°	19201.2	19499.4	18969.4	16812.4	14487.8	12917.5	12811.5	13871.5	15343.2	17584.0	20051.6
40°	20517.6	20690.1	19859.4	17423.8	15281.5	14029.2	14130.3	15281.5	16336.6	18400.0	21451.9
42.5°	21545.5	21708.2	20773.9	17936.5	16092.6	15348.1	15769.6	16982.5	17475.5	19235.7	22497.1
45°	22331.9	22470.0	21407.5	18496.1	17187.1	17258.6	18054.9	18735.2	18616.9	19746.0	23303.2
47.5°	22943.3	23061.6	21895.6	19097.6	18826.5	19595.6	20813.4	21101.8	19800.2	20298.2	24032.9
50°	23194.7	23229.2	22048.4	19864.3	20687.7	22573.5	23843.1	23668.0	21156.0	20912.0	24809.4
52.5°	23522.6	23515.2	22484.8	20594.0	22437.9	25235.9	26503.0	26106.1	22689.4	21831.5	25682.1
55°	24382.9	24392.8	23419.1	21629.3	23929.3	27385.5	28741.3	28452.9	24306.5	23384.5	26700.2
57.5°	25428.2	25465.1	24747.8	22839.7	25354.2	28943.5	30412.7	30301.8	26493.1	25112.6	27661.6
59°	25563.7	25637.7	25376.4	23692.7	26199.8	29421.7	30984.6	31093.1	27664.1	26251.5	28181.7
60°	25317.2	25440.5	25558.8	24175.9	26695.3	29594.3	31019.2	31231.2	28544.1	27025.6	28418.4
62.5°	24242.4	24437.2	25031.3	25662.4	27314.0	29056.9	29917.2	30361.0	29633.7	29059.3	28440.6
65°	22834.8	22935.9	23793.8	25926.1	26113.5	26547.3	26813.6	27383.0	28324.7	29843.3	27422.5
67.5°	20527.4	20825.7	21875.9	24395.3	22571.0	22058.3	21991.7	21424.7	23870.2	27974.7	24912.9
70°	16957.9	17091.0	18385.2	19999.9	17034.3	16245.4	16561.0	16349.0	18503.5	24082.2	20051.6
72.5°	12823.8	13124.5	14389.2	15942.2	11591.2	10568.2	11438.4	11359.5	13898.6	19354.0	13775.3
75°	9123.6	9318.3	10930.5	12476.2	8117.8	6877.8	7190.9	7484.2	9702.9	15281.5	8140.0
77.5°	6268.9	6436.5	7646.9	8250.9	5921.3	5672.3	5189.2	5472.7	6357.7	9066.9	4429.9
80°	3781.6	3774.2	4570.4	4718.3	4124.2	4789.8	4018.2	4511.2	3843.2	3880.2	1715.8
82.5°	2455.3	2430.7	2795.5	3046.9	2295.1	2413.4	1619.6	2334.5	2504.6	1082.2	542.3
85°	1099.5	1146.3	1343.5	1772.5	1005.8	534.9	330.3	717.4	1067.4	544.8	0.0
87.5°	113.4	88.7	236.7	431.4	138.0	14.8	49.3	24.7	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°	10844.3	10844.3	10844.3	10844.3	10844.3	10844.3	10844.3	10844.3	10844.3	10844.3	10844.3
2.5°	11734.2	11591.2	11164.7	10765.4	10422.7	10003.6	9732.5	9306.0	9047.1	8968.3	8980.6
5°	11263.3	10851.6	10040.6	9392.3	8670.0	8258.3	7632.1	7030.6	6705.2	6584.5	6530.2
7.5°	10277.3	9836.0	8857.3	7839.2	7065.2	6342.9	5876.9	5346.9	4984.6	4686.3	4634.5
10°	9545.1	8965.8	7752.9	6658.4	6047.0	5504.7	5038.8	4508.8	4082.3	3742.1	3648.4
12.5°	9106.3	8458.0	7104.6	6187.6	5608.2	5051.1	4444.7	3830.9	3394.5	3027.2	2857.1
15°	9027.4	8275.6	6922.2	5849.8	5134.9	4461.9	3655.8	2992.7	2544.0	2196.5	2090.5
17.5°	9503.2	8603.4	6895.1	5497.3	4516.2	3562.2	2724.0	2174.3	1668.9	1474.2	1397.7
20°	10351.2	9182.7	6892.6	5088.1	3880.2	2743.7	1913.0	1417.5	1212.9	1119.2	1074.8
22.5°	11507.4	9971.6	7023.3	4735.6	3219.5	2023.9	1365.7	1129.0	1010.7	934.3	917.0
25°	12919.9	11140.1	7343.7	4496.5	2714.1	1587.6	1126.6	966.3	867.7	833.2	818.4
27.5°	14174.7	12259.3	7696.2	4249.9	2351.8	1405.1	1045.2	885.0	806.1	779.0	756.8
30°	15256.9	13274.9	7866.3	3924.5	2060.9	1286.8	1060.0	946.6	843.1	761.7	724.8
32.5°	16159.1	14053.9	7977.3	3628.7	1814.4	1052.6	838.2	732.2	685.3	655.7	631.1
35°	17288.2	14897.0	7910.7	3461.1	1688.6	958.9	764.2	631.1	552.2	493.0	468.4
37.5°	18471.5	15740.1	7794.8	3323.0	1631.9	889.9	727.2	599.0	512.8	451.1	419.1
40°	19696.7	16521.5	7659.3	3194.9	1580.2	845.6	705.0	571.9	485.6	419.1	384.6
42.5°	20818.3	17283.3	7605.0	3111.0	1496.4	852.9	687.8	559.6	458.5	389.5	359.9
45°	21725.5	18005.6	7679.0	3066.7	1405.1	840.6	692.7	544.8	436.3	369.8	340.2
47.5°	22694.3	19026.1	7918.1	3022.3	1316.4	781.5	729.7	542.3	426.5	357.4	325.4
50°	23820.9	20332.7	8465.4	2913.8	1207.9	717.4	776.5	539.9	414.1	342.7	310.6
52.5°	25322.2	21816.7	9029.9	2724.0	1050.2	655.7	742.0	532.5	389.5	325.4	293.4
55°	26670.6	23379.6	9508.1	2499.7	850.5	567.0	668.1	500.4	347.6	295.8	266.2
57.5°	27227.7	24262.1	9493.3	2189.1	680.4	498.0	549.7	458.5	303.2	261.3	236.7
59°	27023.1	24151.2	9175.3	1959.8	621.2	461.0	456.1	453.6	283.5	236.7	216.9
60°	26734.7	23746.9	8832.7	1846.4	584.2	436.3	419.1	448.7	266.2	221.9	202.1
62.5°	25630.3	22070.6	7696.2	1654.1	534.9	369.8	335.3	379.6	236.7	192.3	175.0
65°	24030.4	19494.5	6515.4	1599.9	520.1	305.7	278.6	271.2	202.1	162.7	147.9
67.5°	20909.5	16496.9	5277.9	1562.9	525.1	256.4	244.1	204.6	167.6	135.6	125.7
70°	16740.9	12863.2	4321.4	1521.0	530.0	209.5	204.6	162.7	135.6	113.4	103.5
72.5°	10171.3	7624.8	3401.9	1321.3	515.2	167.6	182.4	123.3	98.6	81.4	76.4
75°	6288.6	5218.8	2110.2	1028.0	340.2	123.3	128.2	76.4	66.6	51.8	51.8
77.5°	3643.5	3295.9	754.3	369.8	150.4	74.0	56.7	39.4	37.0	22.2	22.2
80°	1511.1	1210.4	261.3	125.7	81.4	34.5	12.3	2.5	0.0	0.0	0.0
82.5°	441.3	392.0	71.5	56.7	24.7	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°	10844.3	10844.3	10844.3	10844.3	10844.3	10844.3	10844.3	10844.3	10844.3	10844.3	10844.3
2.5°	8771.1	8689.7	8652.7	8778.4	8662.6	8810.5	8697.1	8746.4	8891.8	8955.9	9121.1
5°	6564.7	6480.9	6441.5	6631.3	6621.4	6715.1	6705.2	6791.5	6865.5	6700.3	6870.4
7.5°	4572.9	4516.2	4609.9	4757.8	4915.5	4863.8	4863.8	4747.9	4787.3	4762.7	4755.3
10°	3478.3	3283.6	3234.3	3229.4	3288.5	3300.9	3234.3	3074.1	3133.2	3150.5	3254.0
12.5°	2736.3	2586.0	2356.7	2253.2	2226.0	2248.2	2028.8	1888.3	1954.9	1915.4	2016.5
15°	1962.3	1839.0	1703.4	1587.6	1555.5	1511.1	1272.0	1104.4	1084.7	1092.1	1109.3
17.5°	1400.2	1316.4	1316.4	1193.1	1126.6	993.5	872.7	798.7	791.3	798.7	811.0
20°	1032.9	988.5	983.6	951.6	877.6	788.9	705.0	690.2	685.3	697.6	702.6
22.5°	889.9	843.1	803.6	801.2	732.2	658.2	618.8	599.0	601.5	606.4	618.8
25°	796.2	746.9	705.0	680.4	631.1	579.3	542.3	532.5	532.5	539.9	542.3
27.5°	729.7	668.1	631.1	596.6	552.2	507.8	475.8	468.4	463.5	468.4	480.7
30°	682.9	621.2	574.4	522.6	488.1	446.2	419.1	409.2	406.8	409.2	419.1
32.5°	584.2	547.3	510.3	463.5	421.5	394.4	364.8	347.6	347.6	352.5	362.4
35°	441.3	421.5	419.1	406.8	372.2	342.7	308.1	290.9	290.9	300.7	305.7
37.5°	389.5	352.5	347.6	342.7	327.9	288.4	256.4	241.6	239.1	246.5	256.4
40°	355.0	313.1	290.9	286.0	288.4	244.1	209.5	194.7	194.7	197.2	207.1
42.5°	327.9	278.6	239.1	234.2	244.1	204.6	170.1	155.3	155.3	155.3	167.6
45°	305.7	249.0	202.1	177.5	192.3	167.6	138.0	123.3	118.3	123.3	128.2
47.5°	290.9	226.8	177.5	143.0	143.0	133.1	110.9	93.7	88.7	91.2	98.6
50°	278.6	207.1	150.4	115.9	103.5	106.0	83.8	71.5	66.6	66.6	74.0
52.5°	258.8	187.4	130.7	98.6	78.9	71.5	61.6	51.8	49.3	51.8	56.7
55°	234.2	170.1	113.4	81.4	61.6	49.3	44.4	37.0	34.5	37.0	44.4
57.5°	207.1	143.0	91.2	64.1	41.9	32.0	29.6	24.7	19.7	22.2	27.1
59°	189.8	128.2	78.9	51.8	32.0	22.2	22.2	17.3	12.3	14.8	22.2
60°	182.4	118.3	66.6	44.4	27.1	17.3	17.3	12.3	7.4	9.9	17.3
62.5°	155.3	98.6	51.8	27.1	12.3	2.5	7.4	2.5	0.0	2.5	7.4
65°	130.7	78.9	34.5	12.3	0.0	0.0	0.0	0.0	0.0	0.0	2.5
67.5°	108.5	59.2	17.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	86.3	39.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	59.2	22.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	37.0	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	14.8	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°	10844.3	10844.3	10844.3	10844.3	10844.3	10844.3	10844.3	10844.3	10844.3	10844.3
2.5°	9131.0	9483.5	9700.4	10109.6	10528.7	10851.6	11255.9	11618.3	11768.7	11847.6
5°	7043.0	7533.5	7950.2	8573.8	9153.2	9858.2	10573.1	11416.2	11739.1	11822.9
7.5°	4942.7	5443.1	5879.4	6601.7	7427.5	8371.7	9441.6	10511.5	10982.3	11115.4
10°	3569.6	4104.5	4637.0	5359.3	6130.9	7153.9	8268.2	9592.0	10134.3	10237.8
12.5°	2253.2	2827.5	3692.8	4585.2	5401.2	6224.5	7390.6	8830.2	9429.2	9619.1
15°	1306.5	1735.5	2388.7	3552.3	4590.1	5679.7	6951.8	8544.3	9214.8	9409.5
17.5°	875.1	1023.0	1471.7	2361.6	3732.3	5176.8	6840.8	8778.4	9520.5	9769.4
20°	737.1	803.6	961.4	1439.7	2874.4	4728.2	6870.4	9414.5	10388.2	10698.8
22.5°	648.3	710.0	811.0	1035.4	2006.6	4171.1	7010.9	10324.1	11581.3	11978.2
25°	571.9	633.5	722.3	857.9	1348.4	3527.6	7319.1	11655.3	13161.5	13597.8
27.5°	507.8	564.5	640.9	756.8	1037.8	2810.3	7592.7	12952.0	14603.6	14958.6
30°	448.7	495.5	569.5	658.2	862.8	2166.9	7730.8	14085.9	15653.8	16048.2
32.5°	389.5	433.9	505.4	576.8	710.0	1651.7	7634.6	14919.2	16674.4	16925.8
35°	332.8	379.6	438.8	505.4	613.8	1333.7	7153.9	15855.9	17731.9	17929.1
37.5°	286.0	325.4	387.0	438.8	554.7	1067.4	6572.1	16699.0	18917.7	19201.2
40°	241.6	281.0	342.7	389.5	510.3	840.6	6047.0	17635.8	20167.5	20517.6
42.5°	197.2	244.1	298.3	374.7	438.8	640.9	5411.0	18395.0	21106.7	21545.5
45°	157.8	209.5	268.7	372.2	382.1	488.1	4797.2	18986.7	21937.5	22331.9
47.5°	125.7	177.5	258.8	347.6	313.1	387.0	4447.2	19605.4	22627.7	22943.3
50°	101.1	147.9	271.2	305.7	261.3	327.9	4437.3	20295.7	22985.2	23194.7
52.5°	81.4	120.8	229.3	234.2	221.9	288.4	4703.5	21072.2	23350.0	23522.6
55°	69.0	101.1	150.4	172.6	199.7	261.3	4903.2	22267.8	24220.2	24382.9
57.5°	54.2	86.3	115.9	138.0	177.5	239.1	4930.3	23189.8	25322.2	25428.2
59°	46.8	74.0	103.5	123.3	162.7	224.3	4819.4	23246.5	25393.6	25563.7
60°	39.4	66.6	91.2	115.9	150.4	212.0	4698.6	22834.8	25127.4	25317.2
62.5°	29.6	51.8	66.6	93.7	123.3	182.4	4126.7	21397.6	24109.3	24242.4
65°	19.7	37.0	49.3	69.0	96.1	157.8	3362.5	19534.0	22536.5	22834.8
67.5°	12.3	27.1	39.4	51.8	78.9	133.1	2396.1	16750.8	20335.1	20527.4
70°	7.4	17.3	29.6	41.9	61.6	106.0	1422.4	13240.4	16918.4	16957.9
72.5°	4.9	12.3	19.7	29.6	49.3	96.1	690.2	8630.5	12352.9	12823.8
75°	2.5	7.4	12.3	22.2	39.4	78.9	330.3	5766.0	8988.0	9123.6
77.5°	0.0	2.5	7.4	14.8	29.6	61.6	192.3	3786.5	6128.4	6268.9
80°	0.0	0.0	4.9	12.3	22.2	39.4	115.9	2233.4	3712.5	3781.6
82.5°	0.0	0.0	2.5	9.9	14.8	29.6	59.2	981.1	2430.7	2455.3
85°	0.0	0.0	2.5	9.9	12.3	19.7	22.2	133.1	1079.7	1099.5
87.5°	0.0	0.0	2.5	12.3	12.3	12.3	12.3	7.4	91.2	113.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)