

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: P452986

Luminaire Tested: **GALN-SA4A-727-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452986
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-SA4A-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 10865 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

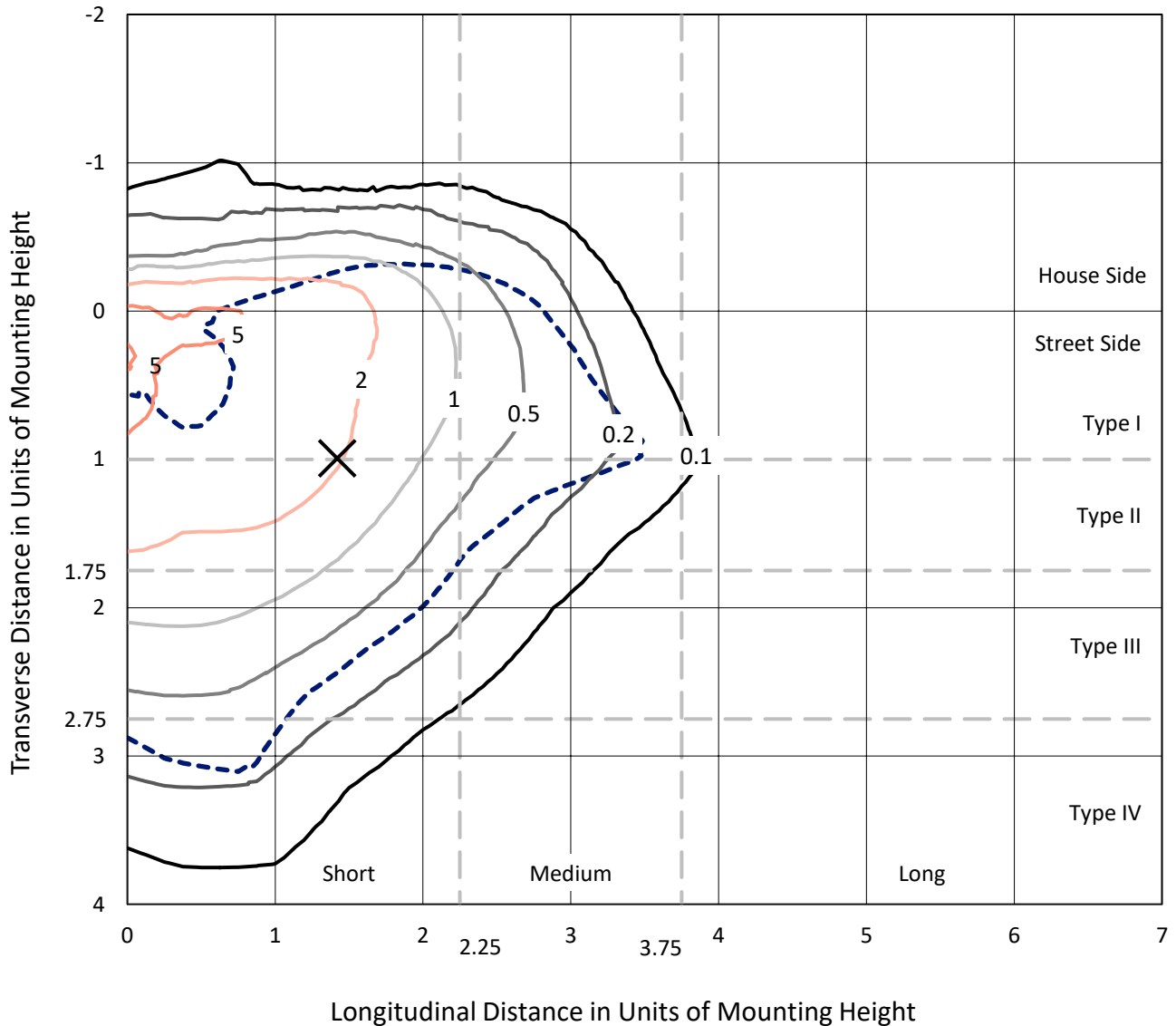
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

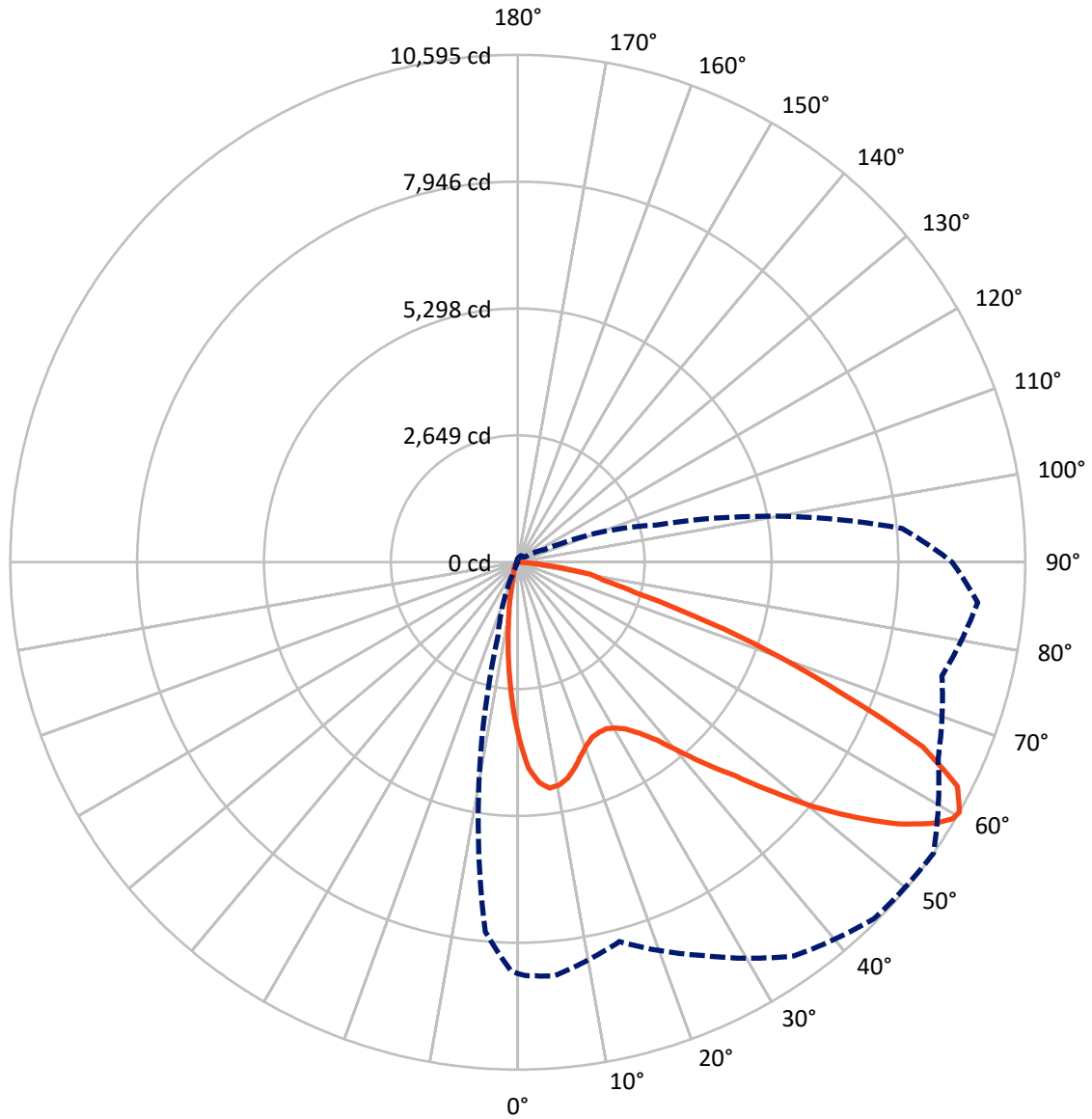
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	1612.5	0.0	1612.5
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	9252.5	0.0	9252.5
	% Fixture	85.2	0.0	85.2
Total	Lumens	10865.0	0.0	10865.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.4	2.5
10°-20°	536.5	4.9
20°-30°	794.1	7.3
30°-40°	1183.6	10.9
40°-50°	1733.5	16.0
50°-60°	2502.6	23.0
60°-70°	2632.6	24.2
70°-80°	1083.0	10.0
80°-90°	126.8	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°	10865.0	100.0
0°-180°	10865.0	100.0

Coefficient of Utilization



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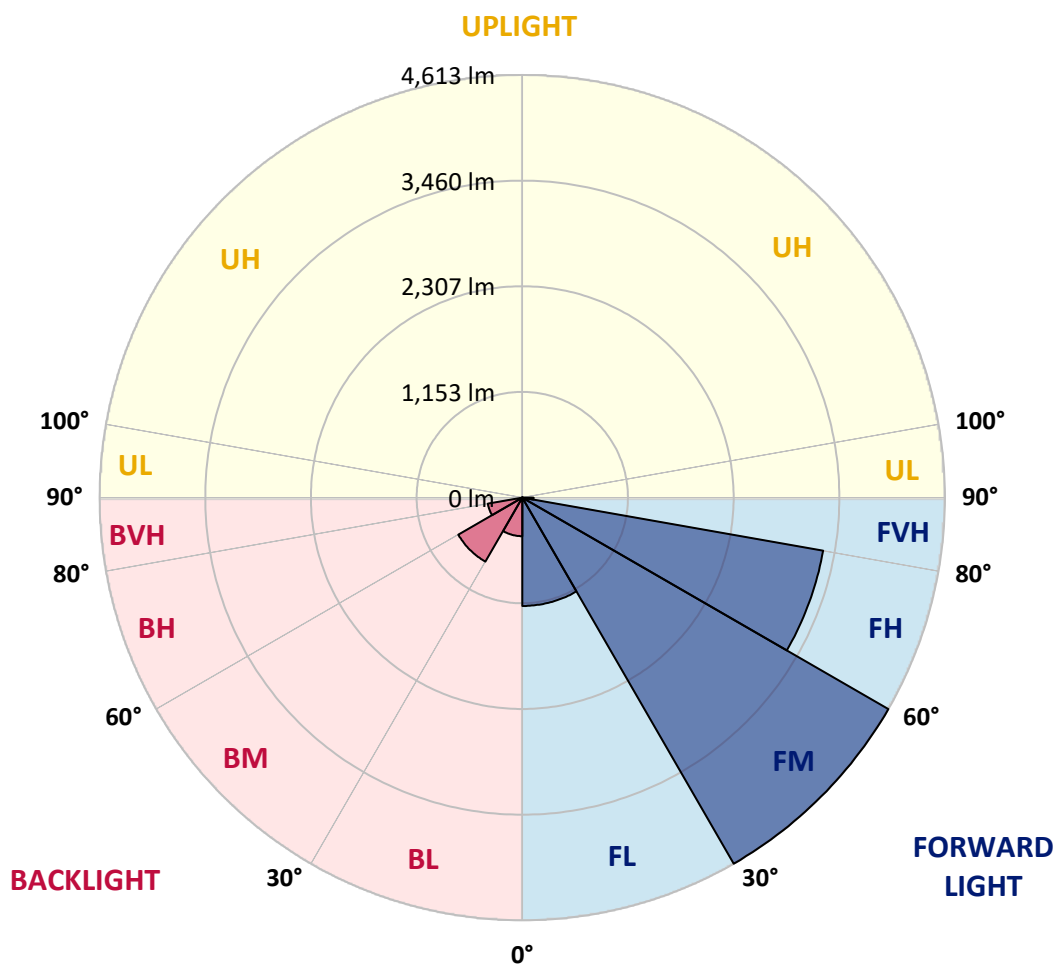
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1182.3	10.9			
FM	(30°-60°)	4613.3	42.5			
FH	(60°-80°)	3333.9	30.7			G2/5000
FVH	(80°-90°)	123.1	1.1			G2/225
BL	(0°-30°)	420.7	3.9	B1/500		
BM	(30°-60°)	806.4	7.4	B1/1000		
BH	(60°-80°)	381.7	3.5	B1/500		G1/500
BVH	(80°-90°)	3.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9
2.5°	4019.2	4012.5	4071.9	4168.9	4266.8	4317.8	4307.8	4303.6	4222.5	4163.1	4038.5
5°	4010.9	4045.2	4151.4	4414.0	4613.0	4709.2	4737.6	4618.0	4460.0	4230.8	3948.1
7.5°	3770.9	3813.5	3986.6	4397.2	4751.0	4960.1	4952.5	4761.0	4434.9	4080.3	3677.2
10°	3473.1	3523.3	3726.5	4225.0	4684.1	4960.1	4975.1	4732.6	4327.0	3872.0	3448.0
12.5°	3263.2	3322.6	3547.6	4064.4	4511.8	4783.6	4801.2	4625.5	4245.9	3791.8	3323.4
15°	3192.1	3248.2	3476.5	3983.3	4328.7	4475.0	4470.8	4452.4	4214.1	3811.0	3330.1
17.5°	3314.2	3360.2	3617.8	4020.1	4157.2	4142.2	4163.9	4252.6	4220.8	3972.4	3540.9
20°	3629.5	3676.4	3953.2	4133.0	4025.9	3930.6	3940.6	4088.6	4282.7	4276.0	3870.4
22.5°	4063.6	4143.0	4393.9	4352.1	4008.4	3799.3	3778.4	3970.7	4388.0	4625.5	4315.3
25°	4613.0	4693.3	4889.0	4701.6	4094.5	3768.3	3749.1	3934.8	4516.0	4966.8	4816.2
27.5°	5074.6	5135.7	5330.5	5042.0	4221.6	3781.7	3749.9	3939.8	4619.7	5256.9	5238.5
30°	5444.3	5489.4	5604.0	5200.9	4331.2	3840.3	3803.5	4013.4	4665.7	5398.3	5580.6
32.5°	5742.0	5818.1	5854.1	5370.7	4488.4	3950.7	3887.9	4154.7	4777.7	5573.1	5939.4
35°	6082.4	6170.2	6124.2	5532.9	4695.8	4122.9	4046.0	4383.9	4947.5	5734.5	6355.8
37.5°	6513.9	6615.1	6435.3	5703.5	4914.9	4382.2	4346.2	4705.8	5205.1	5965.3	6802.4
40°	6960.5	7019.0	6737.2	5910.9	5184.2	4759.4	4793.6	5184.2	5542.1	6242.1	7277.4
42.5°	7309.2	7364.4	7047.5	6084.9	5459.3	5206.8	5349.8	5761.2	5928.5	6525.6	7632.0
45°	7576.0	7622.8	7262.4	6274.7	5830.6	5854.9	6125.0	6355.8	6315.7	6698.7	7905.5
47.5°	7783.4	7823.5	7428.0	6478.8	6386.8	6647.7	7060.8	7158.7	6717.1	6886.0	8153.0
50°	7868.7	7880.4	7479.8	6738.9	7018.2	7657.9	8088.6	8029.3	7177.1	7094.3	8416.5
52.5°	7979.9	7977.4	7627.8	6986.4	7612.0	8561.1	8991.0	8856.4	7697.3	7406.2	8712.5
55°	8271.8	8275.1	7944.8	7337.6	8117.9	9290.4	9750.4	9652.5	8245.9	7933.1	9057.9
57.5°	8626.4	8638.9	8395.6	7748.3	8601.3	9818.9	10317.4	10279.7	8987.7	8519.3	9384.1
59°	8672.4	8697.5	8608.8	8037.6	8888.1	9981.2	10511.4	10548.2	9384.9	8905.7	9560.5
60°	8588.7	8630.6	8670.7	8201.5	9056.2	10039.7	10523.1	10595.0	9683.5	9168.3	9640.8
62.5°	8224.1	8290.2	8491.7	8705.8	9266.1	9857.4	10149.3	10299.8	10053.1	9858.2	9648.3
65°	7746.6	7780.9	8071.9	8795.3	8858.9	9006.1	9096.4	9289.6	9609.0	10124.2	9302.9
67.5°	6963.8	7065.0	7421.3	8276.0	7657.1	7483.2	7460.6	7268.2	8097.8	9490.3	8451.6
70°	5752.9	5798.0	6237.1	6784.9	5778.8	5511.2	5618.2	5546.3	6277.2	8169.8	6802.4
72.5°	4350.4	4452.4	4881.5	5408.3	3932.3	3585.2	3880.4	3853.6	4715.0	6565.7	4673.2
75°	3095.1	3161.2	3708.1	4232.5	2753.9	2333.3	2439.5	2539.0	3291.7	5184.2	2761.4
77.5°	2126.7	2183.6	2594.2	2799.1	2008.8	1924.3	1760.4	1856.6	2156.8	3075.9	1502.8
80°	1282.9	1280.4	1550.5	1600.7	1399.1	1624.9	1363.2	1530.4	1303.8	1316.3	582.1
82.5°	832.9	824.6	948.4	1033.7	778.6	818.7	549.4	792.0	849.7	367.1	184.0
85°	373.0	388.9	455.8	601.3	341.2	181.5	112.1	243.4	362.1	184.8	0.0
87.5°	38.5	30.1	80.3	146.4	46.8	5.0	16.7	8.4	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°	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9
2.5°	3980.8	3932.3	3787.6	3652.1	3535.9	3393.7	3301.7	3157.0	3069.2	3042.4	3046.6
5°	3821.0	3681.4	3406.2	3186.3	2941.2	2801.6	2589.2	2385.1	2274.7	2233.7	2215.3
7.5°	3486.5	3336.8	3004.8	2659.4	2396.8	2151.8	1993.7	1813.9	1691.0	1589.8	1572.2
10°	3238.1	3041.6	2630.1	2258.8	2051.4	1867.4	1709.4	1529.6	1384.9	1269.5	1237.7
12.5°	3089.3	2869.3	2410.2	2099.1	1902.6	1713.6	1507.8	1299.6	1151.6	1027.0	969.3
15°	3062.5	2807.4	2348.3	1984.5	1742.0	1513.7	1240.2	1015.3	863.1	745.1	709.2
17.5°	3223.9	2918.7	2339.1	1864.9	1532.1	1208.4	924.1	737.6	566.2	500.1	474.2
20°	3511.6	3115.2	2338.3	1726.1	1316.3	930.8	649.0	480.9	411.5	379.7	364.6
22.5°	3903.8	3382.8	2382.6	1606.5	1092.2	686.6	463.3	383.0	342.9	317.0	311.1
25°	4383.0	3779.2	2491.3	1525.4	920.8	538.6	382.2	327.8	294.4	282.7	277.6
27.5°	4808.7	4158.9	2610.9	1441.8	797.8	476.7	354.6	300.2	273.5	264.3	256.7
30°	5175.8	4503.4	2668.6	1331.4	699.1	436.5	359.6	321.1	286.0	258.4	245.9
32.5°	5481.9	4767.7	2706.2	1231.0	615.5	357.1	284.3	248.4	232.5	222.5	214.1
35°	5864.9	5053.7	2683.7	1174.2	572.9	325.3	259.3	214.1	187.3	167.3	158.9
37.5°	6266.4	5339.7	2644.4	1127.3	553.6	301.9	246.7	203.2	173.9	153.0	142.2
40°	6682.0	5604.8	2598.4	1083.8	536.1	286.8	239.2	194.0	164.7	142.2	130.5
42.5°	7062.5	5863.3	2580.0	1055.4	507.6	289.4	233.3	189.8	155.6	132.1	122.1
45°	7370.3	6108.3	2605.1	1040.4	476.7	285.2	235.0	184.8	148.0	125.4	115.4
47.5°	7698.9	6454.5	2686.2	1025.3	446.6	265.1	247.5	184.0	144.7	121.3	110.4
50°	8081.1	6897.8	2871.8	988.5	409.8	243.4	263.4	183.1	140.5	116.2	105.4
52.5°	8590.4	7401.2	3063.3	924.1	356.3	222.5	251.7	180.6	132.1	110.4	99.5
55°	9047.9	7931.4	3225.6	848.0	288.5	192.3	226.6	169.8	117.9	100.4	90.3
57.5°	9236.9	8230.8	3220.6	742.6	230.8	168.9	186.5	155.6	102.9	88.6	80.3
59°	9167.5	8193.2	3112.7	664.9	210.7	156.4	154.7	153.9	96.2	80.3	73.6
60°	9069.6	8056.0	2996.4	626.4	198.2	148.0	142.2	152.2	90.3	75.3	68.6
62.5°	8695.0	7487.3	2610.9	561.2	181.5	125.4	113.7	128.8	80.3	65.2	59.4
65°	8152.2	6613.4	2210.3	542.8	176.5	103.7	94.5	92.0	68.6	55.2	50.2
67.5°	7093.4	5596.5	1790.5	530.2	178.1	87.0	82.8	69.4	56.9	46.0	42.7
70°	5679.3	4363.8	1466.0	516.0	179.8	71.1	69.4	55.2	46.0	38.5	35.1
72.5°	3450.6	2586.7	1154.1	448.3	174.8	56.9	61.9	41.8	33.5	27.6	25.9
75°	2133.4	1770.4	715.9	348.7	115.4	41.8	43.5	25.9	22.6	17.6	17.6
77.5°	1236.0	1118.1	255.9	125.4	51.0	25.1	19.2	13.4	12.5	7.5	7.5
80°	512.6	410.6	88.6	42.7	27.6	11.7	4.2	0.8	0.0	0.0	0.0
82.5°	149.7	133.0	24.3	19.2	8.4	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°	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9
2.5°	2975.5	2947.9	2935.4	2978.0	2938.7	2988.9	2950.4	2967.2	3016.5	3038.3	3094.3
5°	2227.1	2198.6	2185.2	2249.6	2246.3	2278.1	2274.7	2304.0	2329.1	2273.0	2330.8
7.5°	1551.3	1532.1	1563.9	1614.0	1667.6	1650.0	1650.0	1610.7	1624.1	1615.7	1613.2
10°	1180.0	1113.9	1097.2	1095.5	1115.6	1119.8	1097.2	1042.9	1062.9	1068.8	1103.9
12.5°	928.3	877.3	799.5	764.4	755.2	762.7	688.3	640.6	663.2	649.8	684.1
15°	665.7	623.9	577.9	538.6	527.7	512.6	431.5	374.7	368.0	370.5	376.3
17.5°	475.0	446.6	446.6	404.8	382.2	337.0	296.0	271.0	268.5	271.0	275.1
20°	350.4	335.4	333.7	322.8	297.7	267.6	239.2	234.2	232.5	236.7	238.3
22.5°	301.9	286.0	272.6	271.8	248.4	223.3	209.9	203.2	204.1	205.7	209.9
25°	270.1	253.4	239.2	230.8	214.1	196.5	184.0	180.6	180.6	183.1	184.0
27.5°	247.5	226.6	214.1	202.4	187.3	172.3	161.4	158.9	157.2	158.9	163.1
30°	231.7	210.7	194.9	177.3	165.6	151.4	142.2	138.8	138.0	138.8	142.2
32.5°	198.2	185.7	173.1	157.2	143.0	133.8	123.8	117.9	117.9	119.6	122.9
35°	149.7	143.0	142.2	138.0	126.3	116.2	104.5	98.7	98.7	102.0	103.7
37.5°	132.1	119.6	117.9	116.2	111.2	97.8	87.0	82.0	81.1	83.6	87.0
40°	120.4	106.2	98.7	97.0	97.8	82.8	71.1	66.1	66.1	66.9	70.2
42.5°	111.2	94.5	81.1	79.4	82.8	69.4	57.7	52.7	52.7	52.7	56.9
45°	103.7	84.5	68.6	60.2	65.2	56.9	46.8	41.8	40.1	41.8	43.5
47.5°	98.7	76.9	60.2	48.5	48.5	45.2	37.6	31.8	30.1	30.9	33.5
50°	94.5	70.2	51.0	39.3	35.1	36.0	28.4	24.3	22.6	22.6	25.1
52.5°	87.8	63.6	44.3	33.5	26.8	24.3	20.9	17.6	16.7	17.6	19.2
55°	79.4	57.7	38.5	27.6	20.9	16.7	15.1	12.5	11.7	12.5	15.1
57.5°	70.2	48.5	30.9	21.7	14.2	10.9	10.0	8.4	6.7	7.5	9.2
59°	64.4	43.5	26.8	17.6	10.9	7.5	7.5	5.9	4.2	5.0	7.5
60°	61.9	40.1	22.6	15.1	9.2	5.9	5.9	4.2	2.5	3.3	5.9
62.5°	52.7	33.5	17.6	9.2	4.2	0.8	2.5	0.8	0.0	0.8	2.5
65°	44.3	26.8	11.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.8
67.5°	36.8	20.1	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	29.3	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	20.1	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	12.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.0	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°	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9
2.5°	3097.6	3217.2	3290.8	3429.6	3571.8	3681.4	3818.5	3941.5	3992.5	4019.2
5°	2389.3	2555.7	2697.0	2908.6	3105.2	3344.3	3586.9	3872.9	3982.4	4010.9
7.5°	1676.8	1846.5	1994.6	2239.6	2519.8	2840.1	3203.0	3566.0	3725.7	3770.9
10°	1211.0	1392.4	1573.1	1818.1	2079.9	2426.9	2804.9	3254.0	3438.0	3473.1
12.5°	764.4	959.2	1252.8	1555.5	1832.3	2111.6	2507.2	2995.6	3198.8	3263.2
15°	443.2	588.8	810.4	1205.1	1557.2	1926.8	2358.4	2898.6	3126.1	3192.1
17.5°	296.9	347.1	499.3	801.2	1266.1	1756.2	2320.7	2978.0	3229.8	3314.2
20°	250.1	272.6	326.2	488.4	975.1	1604.0	2330.8	3193.8	3524.1	3629.5
22.5°	219.9	240.9	275.1	351.2	680.7	1415.0	2378.4	3502.4	3928.9	4063.6
25°	194.0	214.9	245.0	291.0	457.5	1196.7	2483.0	3954.0	4465.0	4613.0
27.5°	172.3	191.5	217.4	256.7	352.1	953.4	2575.8	4393.9	4954.2	5074.6
30°	152.2	168.1	193.2	223.3	292.7	735.1	2622.6	4778.6	5310.5	5444.3
32.5°	132.1	147.2	171.4	195.7	240.9	560.3	2590.0	5061.3	5656.7	5742.0
35°	112.9	128.8	148.9	171.4	208.2	452.4	2426.9	5379.0	6015.5	6082.4
37.5°	97.0	110.4	131.3	148.9	188.2	362.1	2229.6	5665.1	6417.7	6513.9
40°	82.0	95.3	116.2	132.1	173.1	285.2	2051.4	5982.8	6841.7	6960.5
42.5°	66.9	82.8	101.2	127.1	148.9	217.4	1835.7	6240.4	7160.4	7309.2
45°	53.5	71.1	91.2	126.3	129.6	165.6	1627.4	6441.1	7442.2	7576.0
47.5°	42.7	60.2	87.8	117.9	106.2	131.3	1508.7	6651.0	7676.3	7783.4
50°	34.3	50.2	92.0	103.7	88.6	111.2	1505.3	6885.2	7797.6	7868.7
52.5°	27.6	41.0	77.8	79.4	75.3	97.8	1595.6	7148.6	7921.4	7979.9
55°	23.4	34.3	51.0	58.5	67.7	88.6	1663.4	7554.2	8216.6	8271.8
57.5°	18.4	29.3	39.3	46.8	60.2	81.1	1672.6	7867.0	8590.4	8626.4
59°	15.9	25.1	35.1	41.8	55.2	76.1	1635.0	7886.3	8614.7	8672.4
60°	13.4	22.6	30.9	39.3	51.0	71.9	1594.0	7746.6	8524.3	8588.7
62.5°	10.0	17.6	22.6	31.8	41.8	61.9	1400.0	7259.0	8179.0	8224.1
65°	6.7	12.5	16.7	23.4	32.6	53.5	1140.7	6626.8	7645.4	7746.6
67.5°	4.2	9.2	13.4	17.6	26.8	45.2	812.9	5682.6	6898.6	6963.8
70°	2.5	5.9	10.0	14.2	20.9	36.0	482.5	4491.7	5739.5	5752.9
72.5°	1.7	4.2	6.7	10.0	16.7	32.6	234.2	2927.9	4190.7	4350.4
75°	0.8	2.5	4.2	7.5	13.4	26.8	112.1	1956.1	3049.1	3095.1
77.5°	0.0	0.8	2.5	5.0	10.0	20.9	65.2	1284.5	2079.0	2126.7
80°	0.0	0.0	1.7	4.2	7.5	13.4	39.3	757.7	1259.5	1282.9
82.5°	0.0	0.0	0.8	3.3	5.0	10.0	20.1	332.8	824.6	832.9
85°	0.0	0.0	0.8	3.3	4.2	6.7	7.5	45.2	366.3	373.0
87.5°	0.0	0.0	0.8	4.2	4.2	4.2	4.2	2.5	30.9	38.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)