

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: P455916

Luminaire Tested: **GALN-SA7A-827-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-827-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20184 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

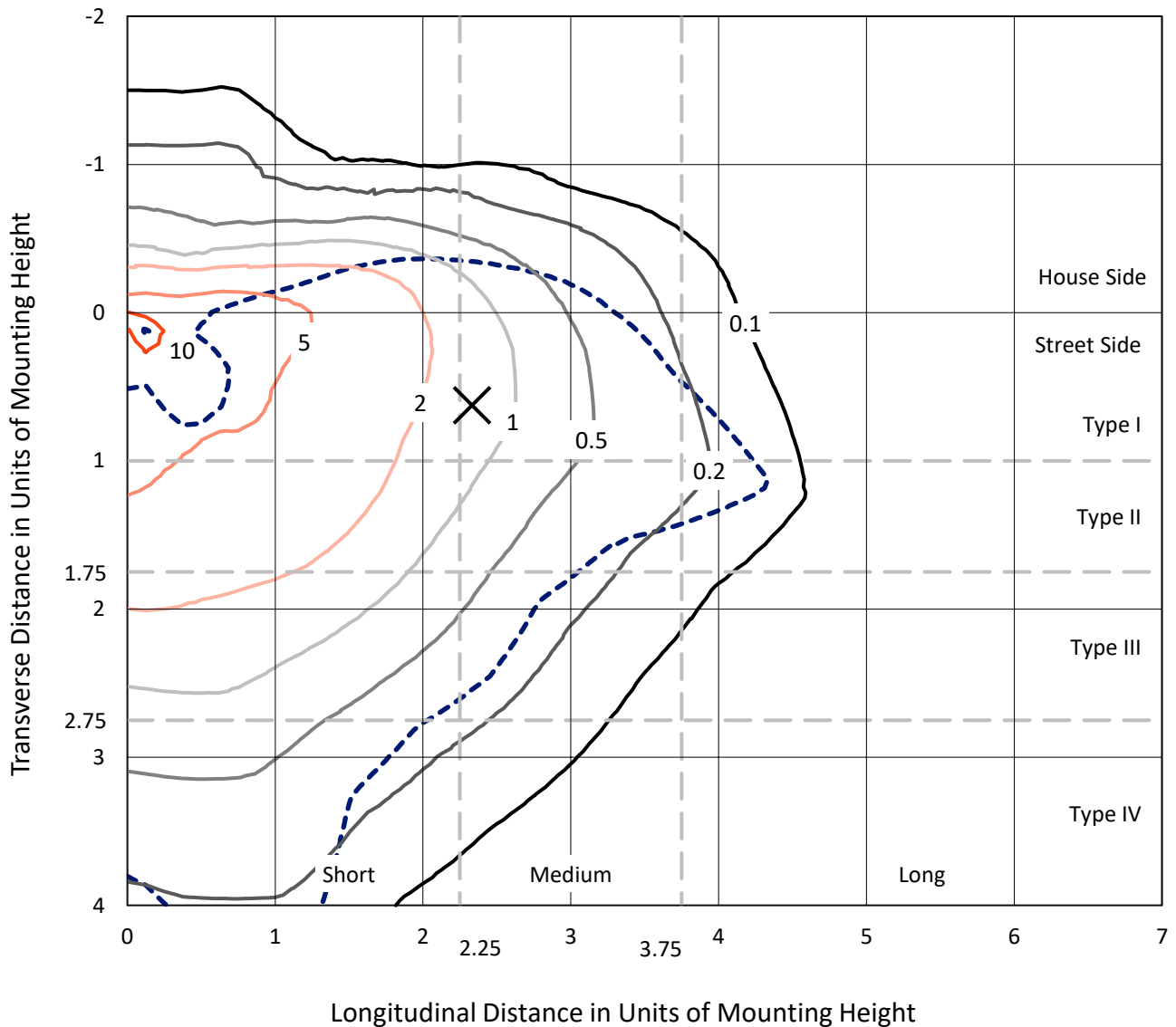
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

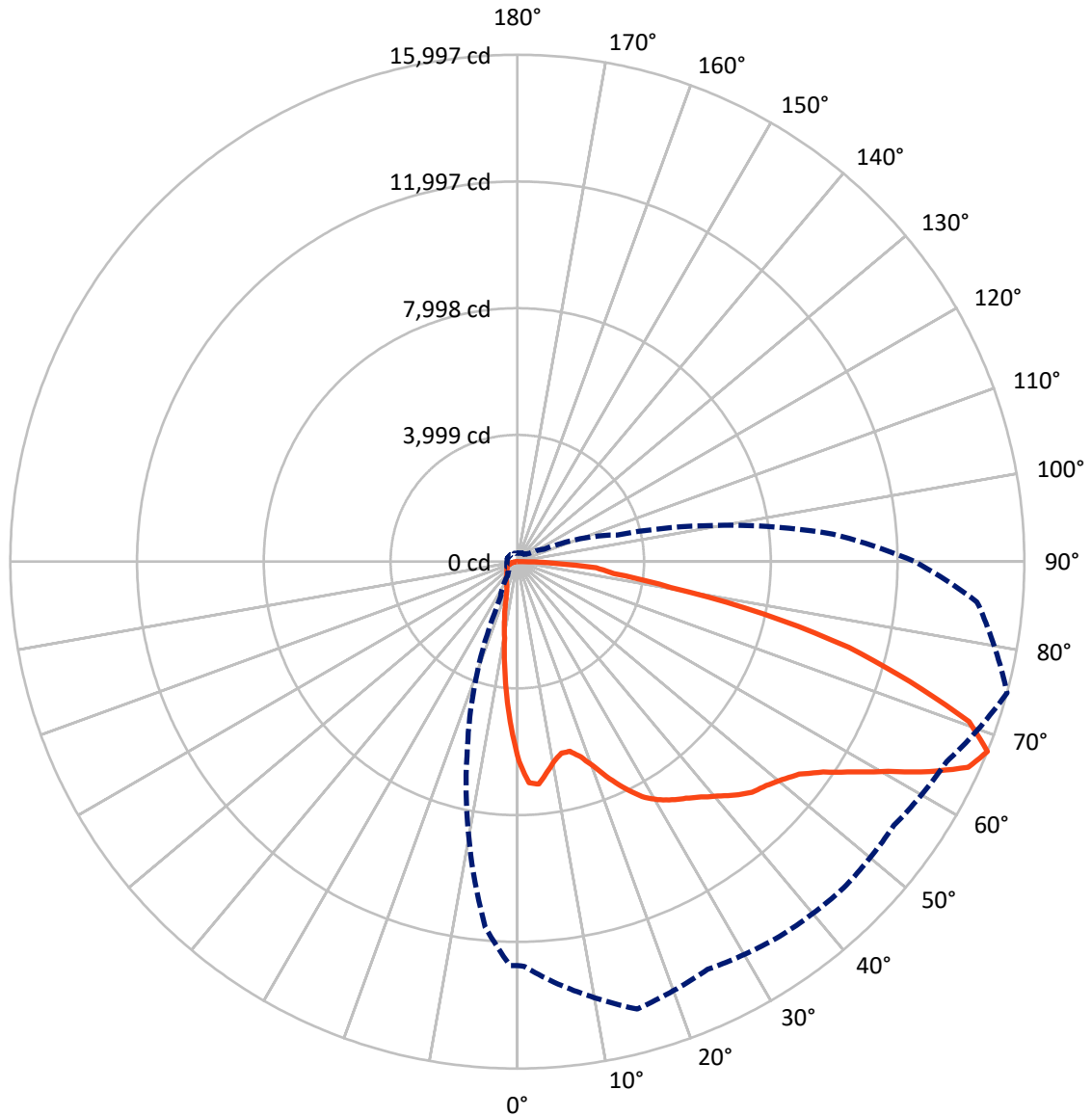
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3411.5	0.0	3411.5
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	16772.5	0.0	16772.5
	% Fixture	83.1	0.0	83.1
Total	Lumens	20184.0	0.0	20184.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.3	2.4
10°-20°	997.5	4.9
20°-30°	1435.4	7.1
30°-40°	2067.4	10.2
40°-50°	2904.1	14.4
50°-60°	4050.2	20.1
60°-70°	4815.4	23.9
70°-80°	2836.0	14.1
80°-90°	599.7	3.0
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°	20184.0	100.0
0°-180°	20184.0	100.0

Coefficient of Utilization

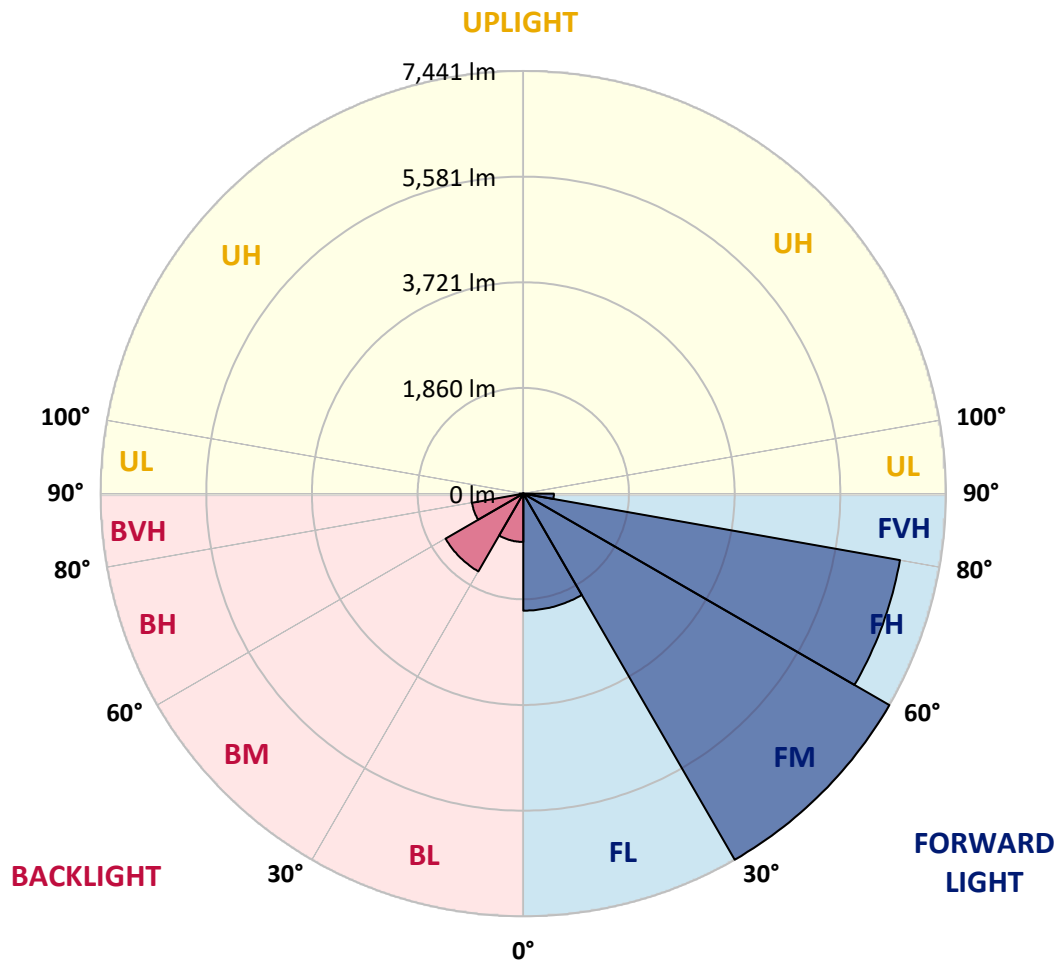


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2060.2	10.2			
FM	(30°-60°)	7441.1	36.9			
FH	(60°-80°)	6733.5	33.4			G3/7500
FVH	(80°-90°)	537.7	2.7			G4/750
BL	(0°-30°)	850.9	4.2	B2/1000		
BM	(30°-60°)	1580.6	7.8	B2/2500		
BH	(60°-80°)	918.0	4.5	B2/1000		G2/1000
BVH	(80°-90°)	62.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6306.0	6306.0	6306.0	6306.0	6306.0	6306.0	6306.0	6306.0	6306.0	6306.0	6306.0
2.5°	6799.1	6808.2	6866.4	7036.0	7152.4	7195.2	7224.9	7169.3	7114.9	6982.9	6783.6
5°	6778.4	6831.5	6982.9	7363.4	7663.7	7793.1	7832.0	7665.0	7389.3	7050.2	6642.5
7.5°	6382.3	6453.5	6686.5	7324.6	7854.0	8156.8	8116.7	7815.1	7318.1	6713.7	6144.2
10°	5912.5	5991.4	6272.3	7043.7	7725.8	8142.6	8142.6	7775.0	7114.9	6396.6	5740.3
12.5°	5539.7	5622.6	5943.5	6755.1	7459.2	7854.0	7920.0	7604.2	6968.7	6195.9	5475.0
15°	5416.8	5497.0	5842.6	6580.4	7177.0	7417.8	7439.8	7336.2	6897.5	6210.2	5463.4
17.5°	5569.5	5673.0	6022.5	6632.1	6918.2	6932.4	6949.2	7030.8	6905.2	6470.3	5698.9
20°	6010.9	6122.2	6487.2	6799.1	6691.7	6544.1	6553.2	6762.9	6997.1	6900.1	6262.0
22.5°	6647.7	6744.7	7118.8	7092.9	6595.9	6291.7	6228.3	6520.8	7133.0	7435.9	6861.2
25°	7334.9	7448.8	7878.6	7529.1	6623.1	6141.6	6101.5	6378.4	7274.1	7936.8	7553.7
27.5°	8121.9	8233.2	8572.3	7969.2	6765.4	6129.9	6082.0	6365.5	7401.0	8400.2	8215.1
30°	8706.9	8809.2	9039.6	8339.3	6940.2	6207.6	6148.1	6467.8	7509.7	8717.3	8859.7
32.5°	9166.4	9272.6	9398.1	8569.7	7170.6	6348.7	6238.7	6654.1	7652.1	8959.3	9337.3
35°	9645.3	9770.9	9761.8	8774.2	7385.4	6511.8	6404.3	6923.4	7876.0	9170.3	9943.0
37.5°	10252.4	10302.8	10238.1	8958.0	7643.0	6805.6	6746.0	7323.3	8194.4	9425.3	10651.0
40°	10868.5	10969.4	10636.8	9180.7	7956.2	7358.2	7351.8	7914.8	8572.3	9724.3	11337.0
42.5°	11396.5	11482.0	11009.5	9374.8	8335.5	8032.6	8081.8	8708.2	9068.1	10071.2	11888.4
45°	11793.9	11870.3	11353.8	9562.5	8835.1	8811.8	9101.7	9558.6	9693.2	10383.1	12212.0
47.5°	12131.7	12205.5	11593.3	9847.2	9452.5	9742.4	10247.2	10445.2	10227.8	10561.7	12574.4
50°	12416.5	12438.5	11757.7	10186.4	10218.7	10882.7	11372.0	11500.1	10755.9	10818.0	12888.9
52.5°	12712.9	12684.4	12041.1	10613.5	11047.1	11964.8	12320.7	12454.0	11261.9	11133.8	13347.1
55°	13376.9	13404.0	12676.6	11151.9	11884.5	13027.4	13495.9	13367.8	11822.4	11715.0	13929.5
57.5°	14179.3	14156.1	13571.0	11994.5	12737.5	14016.3	14365.7	14159.9	12570.5	12513.5	14519.8
60°	14491.3	14522.3	14319.1	12900.6	13578.8	14882.2	15239.4	14919.7	13467.5	13441.6	14965.0
62.5°	14178.1	14352.8	14490.0	13706.9	14295.8	15519.0	15873.6	15508.6	14403.3	14590.9	15276.9
65°	13554.2	13591.7	14059.0	14390.3	14641.4	15623.8	15808.9	15614.8	15185.0	15638.1	15262.7
67.5°	12743.9	12776.3	13323.8	14614.2	14196.2	14433.0	14562.5	14505.5	14943.0	15996.6	14559.9
70°	11972.5	11946.6	12525.2	14043.4	12358.2	11998.4	12105.8	11927.2	12894.1	15120.3	13181.4
72.5°	10471.1	10564.3	11185.6	12456.6	9785.1	9200.1	9434.3	8972.3	9917.1	12949.7	10698.9
75°	8202.1	8224.2	9260.9	10454.3	7381.5	6458.7	6775.8	6582.9	7596.4	10802.4	7388.0
77.5°	5679.5	5630.3	6744.7	7984.7	5264.0	4728.2	4733.4	4641.5	5304.2	7953.6	5019.4
80°	3607.3	3532.2	4222.1	4932.7	3617.6	3870.0	3743.2	3739.3	3453.3	4906.8	3035.2
82.5°	1949.3	2032.1	2667.6	3092.1	2595.1	2991.2	2741.4	2661.1	2369.9	3071.4	1941.5
85°	887.9	965.6	1422.5	2103.3	1971.3	1993.3	1331.9	1571.3	1960.9	2494.2	1036.8
87.5°	86.7	111.3	293.8	992.7	673.0	530.7	198.0	381.8	493.1	886.6	82.8
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°	6306.0	6306.0	6306.0	6306.0	6306.0	6306.0	6306.0	6306.0	6306.0	6306.0	6306.0
2.5°	6702.0	6634.7	6405.6	6216.7	6016.0	5863.3	5664.0	5530.7	5438.8	5300.3	5283.4
5°	6394.0	6229.6	5830.9	5424.5	5073.8	4809.7	4541.8	4295.9	4150.9	4105.6	4047.4
7.5°	5874.9	5598.0	5085.4	4619.5	4216.9	3823.4	3520.6	3305.7	3162.0	3077.9	2977.0
10°	5447.8	5126.8	4503.0	3932.2	3600.8	3356.2	3089.6	2859.2	2681.8	2530.4	2447.6
12.5°	5160.5	4798.1	4096.5	3633.2	3376.9	3116.7	2804.8	2545.9	2284.5	2112.3	2038.6
15°	5073.8	4690.6	3971.0	3484.3	3116.7	2776.3	2426.9	2089.0	1830.2	1667.1	1612.7
17.5°	5286.0	4822.7	3969.7	3286.3	2811.3	2404.9	1957.0	1639.9	1374.6	1252.9	1214.1
20°	5682.1	5076.3	3981.3	3090.9	2479.9	1907.8	1423.8	1163.6	1036.8	985.0	965.6
22.5°	6234.8	5463.4	4016.3	2898.0	2117.5	1465.2	1066.5	934.5	889.2	880.1	876.3
25°	6915.6	5942.3	4134.1	2724.6	1812.1	1118.3	891.8	832.3	806.4	797.3	796.0
27.5°	7542.0	6560.9	4276.5	2575.7	1517.0	964.3	806.4	755.9	730.0	728.7	731.3
30°	8107.7	7078.7	4395.5	2408.7	1293.0	856.8	750.7	700.2	675.6	674.3	682.1
32.5°	8596.9	7504.5	4483.5	2244.4	1168.8	790.8	700.2	645.9	625.2	621.3	625.2
35°	9119.8	7929.0	4443.4	2116.2	1097.6	736.5	662.7	609.6	585.0	573.4	573.4
37.5°	9716.5	8366.5	4374.8	2010.1	1065.2	691.2	630.3	578.6	554.0	542.3	541.0
40°	10367.6	8804.0	4280.3	1915.6	1032.9	664.0	608.3	554.0	524.2	512.6	510.0
42.5°	10942.2	9178.1	4202.7	1853.5	979.8	669.2	588.9	535.9	498.3	482.8	481.5
45°	11441.8	9554.7	4188.4	1817.2	935.8	661.4	583.7	521.6	477.6	460.8	458.2
47.5°	11832.7	9946.9	4270.0	1796.5	887.9	620.0	617.4	512.6	459.5	441.4	438.8
50°	12309.0	10503.5	4456.4	1753.8	843.9	581.2	652.3	511.3	445.2	422.0	415.5
52.5°	12943.3	11228.3	4708.8	1677.4	780.5	544.9	622.6	511.3	428.4	405.1	397.4
55°	13902.4	12152.4	4956.0	1570.0	691.2	497.0	561.7	495.7	403.8	383.1	377.9
57.5°	14537.9	12828.1	5113.9	1421.2	579.9	462.1	484.1	471.1	379.2	357.2	357.2
60°	14570.2	13009.3	5038.8	1233.5	510.0	429.7	420.7	475.0	357.2	333.9	331.3
62.5°	14197.5	12565.3	4647.9	1065.2	472.4	394.8	380.5	416.8	335.2	311.9	308.0
65°	13615.0	11432.8	3969.7	985.0	451.7	363.7	343.0	341.7	311.9	289.9	284.8
67.5°	12544.6	9990.9	3261.7	938.4	441.4	328.8	309.3	302.9	284.8	266.6	264.0
70°	10966.8	8367.8	2615.8	919.0	436.2	292.5	277.0	269.2	253.7	239.5	238.2
72.5°	8532.2	6787.4	2158.9	906.0	433.6	258.9	242.0	231.7	222.6	209.7	209.7
75°	6128.6	4993.5	1647.7	816.7	401.2	222.6	204.5	198.0	185.1	174.7	177.3
77.5°	3863.6	3362.7	1084.6	600.6	310.6	178.6	163.1	159.2	148.8	134.6	143.7
80°	2609.4	2364.7	632.9	377.9	195.4	130.7	125.5	124.3	112.6	97.1	98.4
82.5°	1775.8	1742.2	328.8	214.9	112.6	76.4	73.8	76.4	63.4	51.8	51.8
85°	693.8	947.4	155.3	84.1	36.2	11.6	16.8	18.1	10.4	5.2	6.5
87.5°	12.9	97.1	3.9	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°	6306.0	6306.0	6306.0	6306.0	6306.0	6306.0	6306.0	6306.0	6306.0	6306.0	6306.0
2.5°	5257.6	5245.9	5265.3	5182.5	5199.3	5230.4	5245.9	5255.0	5383.1	5353.3	5434.9
5°	4101.7	4090.1	4165.1	4175.5	4214.3	4206.6	4244.1	4253.2	4299.8	4316.6	4430.5
7.5°	2983.4	3033.9	3119.3	3163.3	3229.3	3250.1	3230.6	3278.5	3181.5	3251.3	3272.1
10°	2397.1	2336.3	2300.0	2401.0	2413.9	2509.7	2470.9	2439.8	2496.8	2499.3	2553.7
12.5°	1995.9	1865.1	1778.4	1806.9	1837.9	1879.4	1885.8	1948.0	1989.4	2028.2	2060.6
15°	1564.8	1519.5	1440.6	1401.8	1445.8	1462.6	1502.7	1554.5	1598.5	1610.1	1654.1
17.5°	1201.1	1208.9	1196.0	1172.7	1199.8	1212.8	1215.4	1216.7	1228.3	1220.5	1285.3
20°	966.9	994.0	1026.4	1031.6	1040.6	1047.1	1035.5	991.5	992.7	1019.9	1040.6
22.5°	875.0	880.1	916.4	928.0	956.5	944.9	911.2	890.5	887.9	894.4	904.7
25°	802.5	810.2	836.1	854.3	876.3	855.5	831.0	811.5	809.0	815.4	825.8
27.5°	737.8	749.4	772.7	790.8	811.5	792.1	768.8	752.0	750.7	749.4	755.9
30°	686.0	698.9	715.8	736.5	750.7	733.9	711.9	702.8	701.5	698.9	701.5
32.5°	634.2	654.9	671.8	682.1	696.3	683.4	666.6	661.4	652.3	644.6	640.7
35°	576.0	598.0	623.9	636.8	651.0	638.1	626.5	604.5	588.9	587.6	590.2
37.5°	542.3	551.4	572.1	594.1	608.3	601.9	579.9	557.9	554.0	554.0	556.6
40°	512.6	516.4	525.5	554.0	579.9	560.4	533.3	526.8	526.8	525.5	526.8
42.5°	482.8	486.7	486.7	508.7	550.1	519.0	498.3	498.3	498.3	499.6	503.5
45°	455.6	456.9	455.6	471.1	510.0	484.1	469.8	473.7	476.3	478.9	481.5
47.5°	432.3	433.6	432.3	445.2	464.7	454.3	446.5	451.7	456.9	460.8	463.4
50°	411.6	410.3	412.9	420.7	429.7	432.3	427.1	434.9	437.5	442.7	449.1
52.5°	393.5	392.2	394.8	398.7	411.6	411.6	411.6	418.1	423.2	428.4	437.5
55°	372.8	374.1	377.9	383.1	399.9	397.4	398.7	403.8	409.0	416.8	422.0
57.5°	353.4	355.9	361.1	368.9	385.7	384.4	385.7	388.3	394.8	398.7	403.8
60°	331.3	336.5	343.0	348.2	365.0	363.7	370.2	375.4	379.2	379.2	381.8
62.5°	309.3	317.1	323.6	327.5	345.6	346.9	355.9	359.8	362.4	359.8	363.7
65°	287.3	299.0	301.6	306.8	324.9	326.2	336.5	345.6	343.0	340.4	346.9
67.5°	265.3	279.6	278.3	284.8	302.9	305.5	314.5	330.1	324.9	322.3	327.5
70°	240.7	251.1	252.4	256.3	280.9	277.0	291.2	305.5	301.6	302.9	302.9
72.5°	213.6	222.6	222.6	230.4	256.3	249.8	261.5	277.0	277.0	275.7	275.7
75°	181.2	186.4	191.6	203.2	230.4	222.6	230.4	244.6	247.2	244.6	244.6
77.5°	146.3	154.0	156.6	172.1	191.6	190.3	198.0	204.5	209.7	207.1	207.1
80°	103.5	111.3	121.7	138.5	150.1	154.0	157.9	163.1	165.7	165.7	168.3
82.5°	58.2	69.9	79.0	95.8	101.0	120.4	119.1	123.0	119.1	104.8	116.5
85°	12.9	24.6	34.9	44.0	50.5	69.9	73.8	82.8	68.6	63.4	63.4
87.5°	0.0	0.0	0.0	0.0	0.0	10.4	20.7	28.5	24.6	20.7	20.7
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°	6306.0	6306.0	6306.0	6306.0	6306.0	6306.0	6306.0	6306.0	6306.0	6306.0
2.5°	5503.5	5616.1	5752.0	5986.3	6150.6	6328.0	6506.6	6696.8	6747.3	6799.1
5°	4461.5	4682.9	4803.2	5117.8	5447.8	5867.2	6210.2	6585.5	6742.1	6778.4
7.5°	3379.5	3529.6	3845.4	4163.8	4572.9	5012.9	5538.4	6123.5	6306.0	6382.3
10°	2679.3	2883.8	3160.7	3502.4	3861.0	4334.7	4927.5	5610.9	5869.8	5912.5
12.5°	2280.6	2508.4	2810.0	3171.1	3510.2	3867.4	4465.4	5170.8	5447.8	5539.7
15°	1823.7	2099.4	2447.6	2828.1	3197.0	3587.9	4193.6	4989.6	5309.3	5416.8
17.5°	1432.8	1655.4	2032.1	2445.0	2882.5	3376.9	4136.7	5076.3	5469.8	5569.5
20°	1096.3	1255.5	1572.6	2008.8	2521.3	3168.5	4150.9	5403.8	5874.9	6010.9
22.5°	947.4	1029.0	1221.8	1637.3	2210.7	2987.3	4209.2	5852.9	6421.2	6647.7
25°	858.1	900.9	1009.6	1281.4	1914.3	2811.3	4342.5	6457.4	7184.8	7334.9
27.5°	781.8	812.8	880.1	1075.6	1645.1	2648.2	4497.8	7127.9	7898.0	8121.9
30°	709.3	750.7	814.1	955.2	1472.9	2499.3	4693.2	7671.5	8498.5	8706.9
32.5°	653.6	695.1	753.3	871.1	1326.7	2342.7	4809.7	8149.1	8989.1	9166.4
35°	608.3	643.3	704.1	803.8	1215.4	2223.7	4786.4	8528.3	9464.1	9645.3
37.5°	576.0	605.7	666.6	740.4	1131.2	2099.4	4774.8	9029.2	10042.7	10252.4
40°	546.2	577.3	632.9	698.9	1047.1	1953.1	4781.2	9526.2	10658.8	10868.5
42.5°	522.9	557.9	603.2	687.3	960.4	1835.4	4781.2	9958.5	11194.6	11396.5
45°	503.5	541.0	585.0	686.0	891.8	1746.0	4748.9	10330.0	11621.8	11793.9
47.5°	486.7	528.1	591.5	662.7	875.0	1681.3	4720.4	10627.7	11969.9	12131.7
50°	475.0	524.2	629.0	635.5	880.1	1661.9	4857.6	11003.1	12276.7	12416.5
52.5°	466.0	525.5	627.7	595.4	871.1	1674.9	5143.7	11589.4	12702.5	12712.9
55°	447.8	524.2	595.4	550.1	833.5	1696.9	5511.2	12441.1	13369.1	13376.9
57.5°	429.7	510.0	552.7	511.3	757.2	1696.9	5953.9	13247.4	14172.9	14179.3
60°	411.6	530.7	485.4	477.6	657.5	1665.8	6421.2	13602.1	14425.3	14491.3
62.5°	393.5	534.6	433.6	447.8	585.0	1590.7	6769.3	13209.9	14083.6	14178.1
65°	372.8	431.0	399.9	416.8	547.5	1465.2	6659.3	12491.5	13441.6	13554.2
67.5°	348.2	365.0	363.7	384.4	534.6	1280.1	6079.5	11582.9	12750.4	12743.9
70°	318.4	327.5	331.3	353.4	510.0	1136.4	5066.0	10403.8	11827.6	11972.5
72.5°	287.3	295.1	299.0	318.4	485.4	1054.9	3932.2	8779.4	10244.6	10471.1
75°	253.7	258.9	264.0	280.9	459.5	934.5	2800.9	6702.0	7846.2	8202.1
77.5°	218.7	218.7	225.2	242.0	387.0	771.4	1879.4	4701.0	5315.8	5679.5
80°	177.3	178.6	176.0	194.1	284.8	528.1	1067.8	3140.0	3537.4	3607.3
82.5°	135.9	132.0	133.3	142.4	212.3	359.8	569.5	1950.6	1988.1	1949.3
85°	85.4	85.4	82.8	93.2	135.9	187.7	310.6	1194.7	933.2	887.9
87.5°	34.9	28.5	32.4	37.5	64.7	76.4	121.7	245.9	94.5	86.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)