

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: P455074

Luminaire Tested: **GALN-SA6B-727-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455074
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-SA6B-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA 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: 20266 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

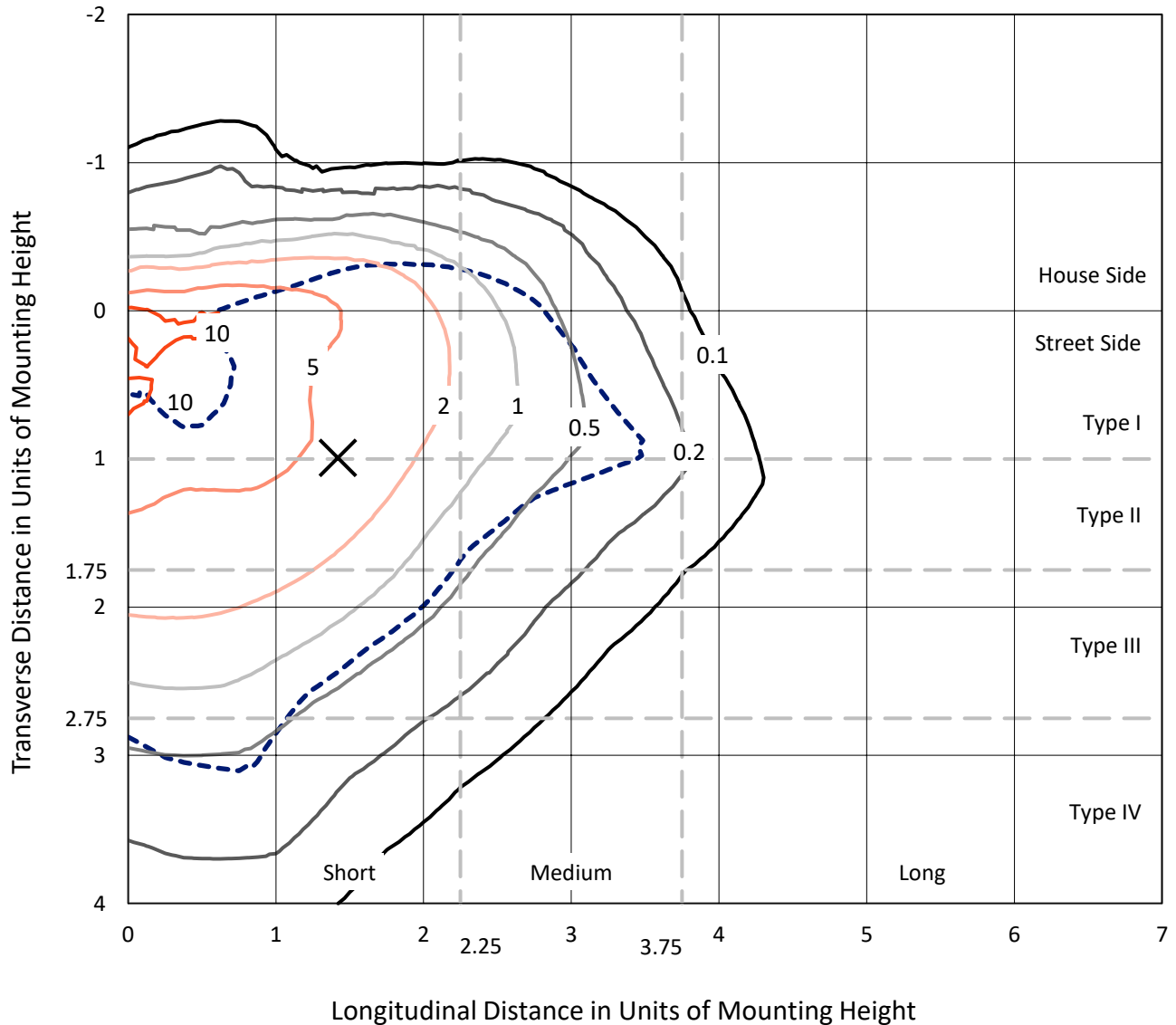
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

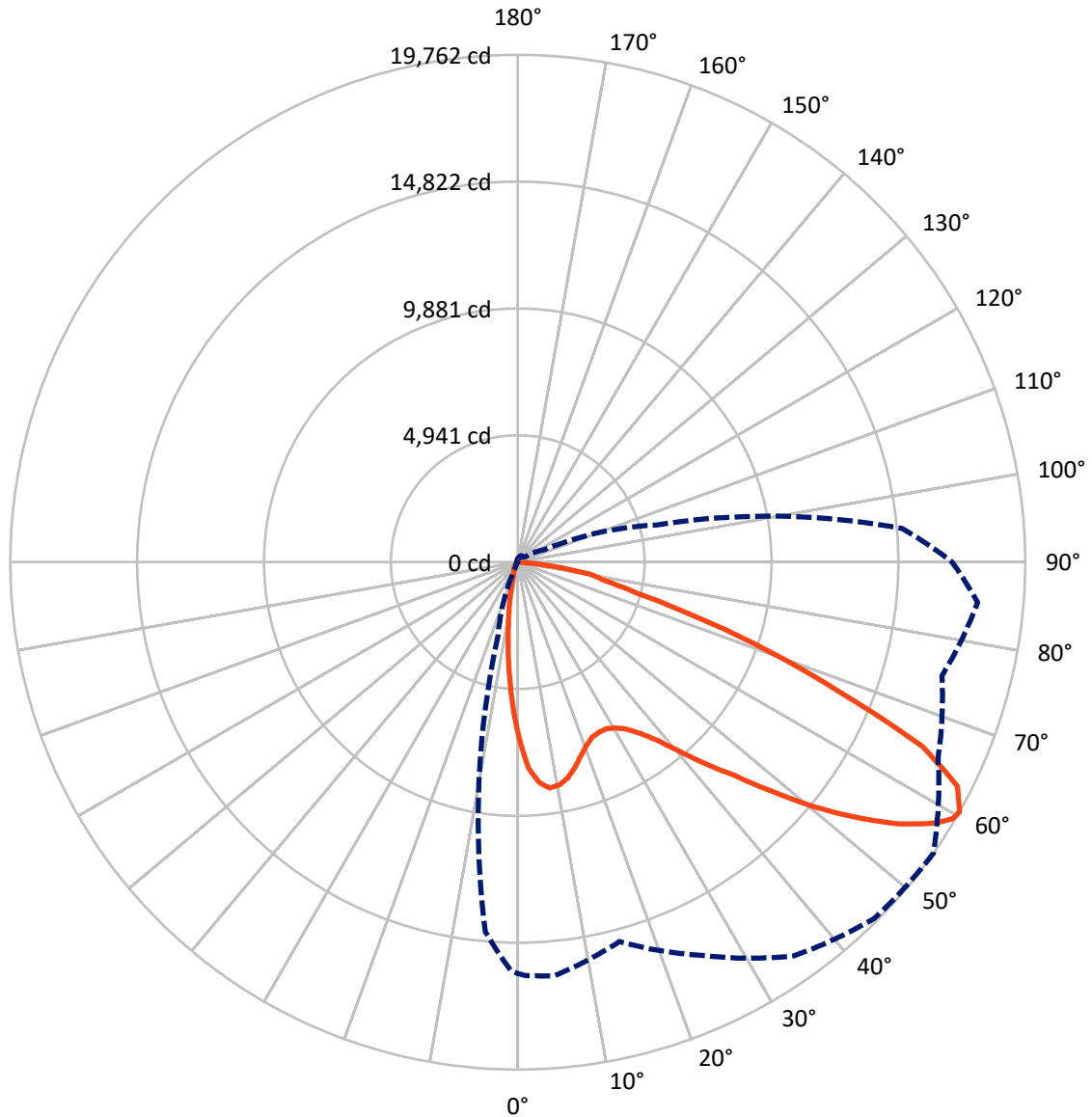
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 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	3007.7	0.0	3007.7
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	17258.4	0.0	17258.4
	% Fixture	85.2	0.0	85.2
Total	Lumens	20266.0	0.0	20266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.1	2.5
10°-20°	1000.7	4.9
20°-30°	1481.1	7.3
30°-40°	2207.8	10.9
40°-50°	3233.3	16.0
50°-60°	4667.9	23.0
60°-70°	4910.4	24.2
70°-80°	2020.0	10.0
80°-90°	236.6	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°	20266.0	100.0
0°-180°	20266.0	100.0

Coefficient of Utilization



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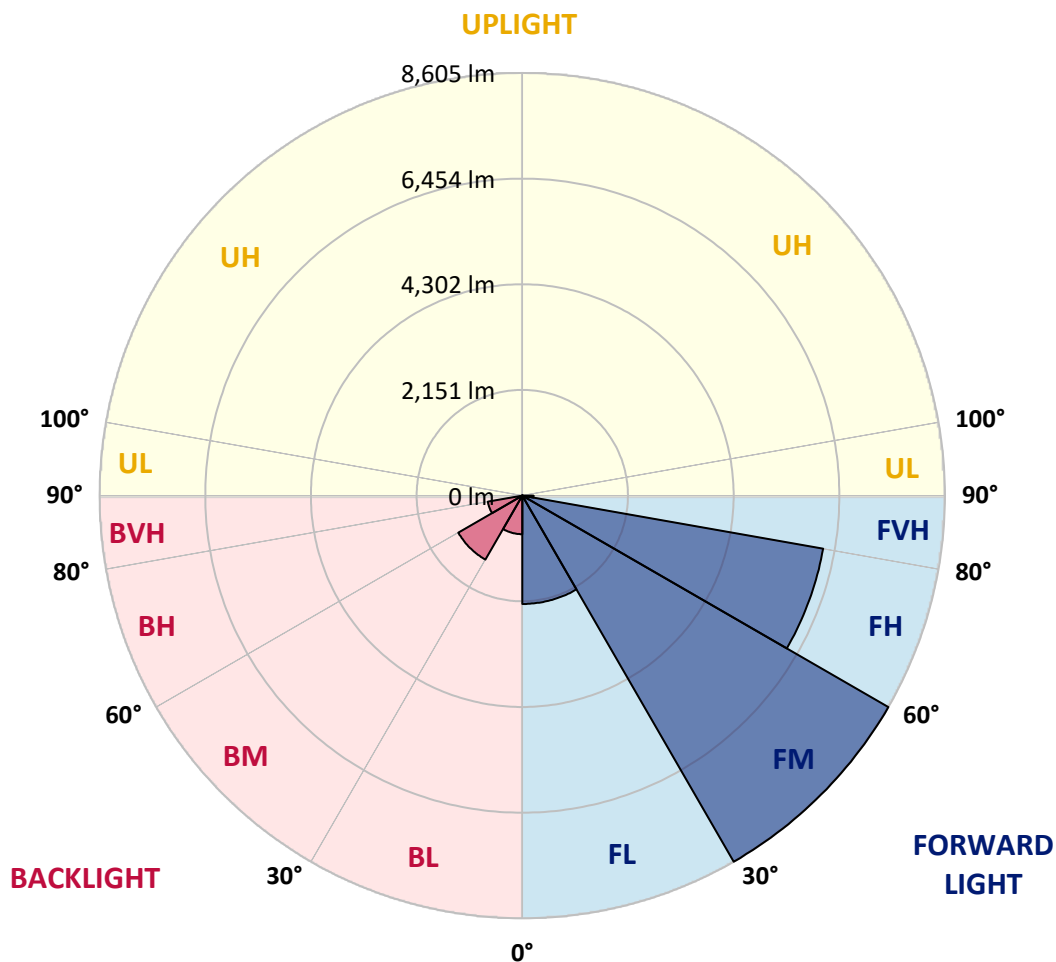
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2205.2	10.9			
FM	(30°-60°)	8605.0	42.5			
FH	(60°-80°)	6218.5	30.7			G3/7500
FVH	(80°-90°)	229.6	1.1			G3/500
BL	(0°-30°)	784.7	3.9	B2/1000		
BM	(30°-60°)	1504.1	7.4	B2/2500		
BH	(60°-80°)	711.9	3.5	B2/1000		G2/1000
BVH	(80°-90°)	7.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6862.0	6862.0	6862.0	6862.0	6862.0	6862.0	6862.0	6862.0	6862.0	6862.0	6862.0
2.5°	7496.9	7484.4	7595.2	7776.1	7958.6	8053.8	8035.1	8027.3	7875.9	7765.2	7532.8
5°	7481.3	7545.2	7743.4	8233.2	8604.4	8783.8	8836.8	8613.8	8319.0	7891.5	7364.3
7.5°	7033.6	7113.2	7436.1	8202.0	8861.8	9251.8	9237.7	8880.5	8272.2	7610.8	6858.9
10°	6478.3	6571.9	6950.9	7880.6	8737.0	9251.8	9279.9	8827.5	8070.9	7222.3	6431.5
12.5°	6086.7	6197.5	6617.1	7581.1	8415.7	8922.6	8955.4	8627.8	7919.6	7072.6	6199.1
15°	5954.1	6058.7	6484.5	7429.8	8074.1	8347.0	8339.2	8304.9	7860.3	7108.5	6211.5
17.5°	6181.9	6267.7	6748.1	7498.5	7754.3	7726.2	7766.8	7932.1	7872.8	7409.5	6604.6
20°	6770.0	6857.3	7373.7	7709.0	7509.4	7331.5	7350.3	7626.4	7988.3	7975.8	7219.2
22.5°	7579.6	7727.8	8195.7	8117.7	7476.6	7086.6	7047.6	7406.4	8184.8	8627.8	8049.1
25°	8604.4	8754.2	9119.2	8769.8	7637.3	7028.9	6993.0	7339.3	8423.5	9264.3	8983.5
27.5°	9465.5	9579.4	9942.8	9404.7	7874.4	7053.9	6994.6	7348.7	8616.9	9805.5	9771.2
30°	10155.0	10239.2	10452.9	9701.0	8078.7	7163.1	7094.4	7486.0	8702.7	10069.2	10409.2
32.5°	10710.3	10852.2	10919.3	10017.7	8372.0	7369.0	7252.0	7749.6	8911.7	10395.2	11078.4
35°	11345.2	11509.0	11423.2	10320.3	8758.9	7690.3	7546.8	8177.0	9228.4	10696.3	11855.3
37.5°	12150.1	12338.8	12003.5	10638.5	9167.5	8173.9	8106.8	8777.6	9708.8	11126.8	12688.2
40°	12983.1	13092.3	12566.6	11025.4	9669.8	8877.4	8941.4	9669.8	10337.5	11643.1	13574.3
42.5°	13633.5	13736.5	13145.3	11349.9	10183.0	9712.0	9978.7	10746.2	11058.1	12171.9	14235.7
45°	14131.2	14218.5	13546.2	11703.9	10875.6	10920.9	11424.7	11855.3	11780.4	12494.8	14745.8
47.5°	14518.0	14592.9	13855.1	12084.6	11913.0	12399.7	13170.3	13352.8	12529.1	12844.2	15207.5
50°	14677.1	14699.0	13951.8	12569.7	13090.7	14284.0	15087.4	14976.6	13387.1	13232.7	15698.9
52.5°	14884.6	14879.9	14227.9	13031.4	14198.2	15968.7	16770.5	16519.4	14357.3	13814.5	16251.1
55°	15429.0	15435.2	14819.1	13686.6	15142.0	17329.0	18186.9	18004.4	15380.6	14797.2	16895.3
57.5°	16090.4	16113.8	15659.9	14452.5	16043.6	18314.8	19244.5	19174.3	16764.3	15890.7	17503.7
59°	16176.2	16223.0	16057.6	14992.2	16578.6	18617.4	19606.4	19675.1	17505.2	16611.4	17832.8
60°	16020.2	16098.2	16173.1	15298.0	16892.2	18726.6	19628.3	19762.4	18062.1	17101.2	17982.6
62.5°	15340.1	15463.3	15839.3	16238.6	17283.7	18386.6	18931.0	19211.8	18751.6	18388.1	17996.6
65°	14449.4	14513.3	15056.2	16405.5	16524.0	16798.6	16967.1	17327.4	17923.3	18884.2	17352.4
67.5°	12989.3	13178.1	13842.6	15436.8	14282.5	13958.0	13915.9	13557.1	15104.5	17701.8	15764.4
70°	10730.6	10814.8	11633.8	12655.5	10778.9	10279.8	10479.4	10345.3	11708.6	15238.7	12688.2
72.5°	8114.6	8304.9	9105.2	10087.9	7334.7	6687.3	7237.9	7188.0	8794.7	12246.8	8716.7
75°	5773.2	5896.4	6916.6	7894.7	5136.8	4352.1	4550.2	4735.9	6139.8	9669.8	5150.8
77.5°	3966.8	4072.9	4838.8	5221.0	3746.9	3589.3	3283.6	3463.0	4023.0	5737.3	2803.1
80°	2392.9	2388.2	2892.1	2985.7	2609.7	3030.9	2542.6	2854.6	2431.9	2455.3	1085.7
82.5°	1553.7	1538.1	1768.9	1928.0	1452.3	1527.1	1024.9	1477.2	1584.9	684.8	343.2
85°	695.7	725.4	850.1	1121.6	636.4	338.5	209.0	453.9	675.4	344.7	0.0
87.5°	71.8	56.2	149.8	273.0	87.4	9.4	31.2	15.6	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°	6862.0	6862.0	6862.0	6862.0	6862.0	6862.0	6862.0	6862.0	6862.0	6862.0	6862.0
2.5°	7425.1	7334.7	7064.8	6812.1	6595.3	6330.1	6158.5	5888.6	5724.8	5674.9	5682.7
5°	7127.2	6866.7	6353.5	5943.2	5486.2	5225.7	4829.5	4448.8	4242.9	4166.5	4132.2
7.5°	6503.2	6224.0	5604.7	4960.5	4470.7	4013.6	3718.8	3383.4	3154.1	2965.4	2932.6
10°	6039.9	5673.4	4905.9	4213.3	3826.4	3483.3	3188.4	2853.1	2583.2	2367.9	2308.7
12.5°	5762.3	5352.0	4495.6	3915.4	3548.8	3196.2	2812.5	2424.1	2148.0	1915.6	1807.9
15°	5712.4	5236.6	4380.2	3701.6	3249.3	2823.4	2313.3	1893.7	1609.8	1389.9	1322.8
17.5°	6013.4	5444.1	4363.0	3478.6	2857.7	2254.1	1723.7	1375.8	1056.1	932.8	884.5
20°	6550.0	5810.6	4361.5	3219.6	2455.3	1736.2	1210.5	896.9	767.5	708.2	680.1
22.5°	7281.6	6309.8	4444.2	2996.6	2037.2	1280.7	864.2	714.4	639.6	591.2	580.3
25°	8175.4	7049.2	4646.9	2845.3	1717.5	1004.6	712.9	611.5	549.1	527.2	517.9
27.5°	8969.4	7757.4	4870.0	2689.3	1488.1	889.1	661.4	560.0	510.1	492.9	478.9
30°	9654.2	8400.1	4977.6	2483.4	1304.1	814.3	670.8	599.0	533.5	482.0	458.6
32.5°	10225.2	8893.0	5047.8	2296.2	1148.1	666.1	530.4	463.3	433.7	414.9	399.3
35°	10939.6	9426.5	5005.7	2190.1	1068.5	606.8	483.6	399.3	349.4	312.0	296.4
37.5°	11688.4	9960.0	4932.4	2102.7	1032.7	563.1	460.2	379.1	324.5	285.5	265.2
40°	12463.6	10454.5	4846.6	2021.6	999.9	535.0	446.1	361.9	307.3	265.2	243.3
42.5°	13173.4	10936.5	4812.3	1968.6	946.9	539.7	435.2	354.1	290.1	246.5	227.7
45°	13747.4	11393.5	4859.1	1940.5	889.1	531.9	438.3	344.7	276.1	234.0	215.3
47.5°	14360.5	12039.3	5010.4	1912.4	833.0	494.5	461.7	343.2	269.9	226.2	205.9
50°	15073.3	12866.1	5356.7	1843.8	764.4	453.9	491.4	341.6	262.1	216.8	196.5
52.5°	16023.3	13805.1	5713.9	1723.7	664.5	414.9	469.5	336.9	246.5	205.9	185.6
55°	16876.6	14794.1	6016.5	1581.7	538.2	358.8	422.7	316.7	219.9	187.2	168.5
57.5°	17229.1	15352.6	6007.2	1385.2	430.5	315.1	347.9	290.1	191.9	165.3	149.8
59°	17099.7	15282.4	5806.0	1240.1	393.1	291.7	288.6	287.0	179.4	149.8	137.3
60°	16917.1	15026.5	5589.1	1168.4	369.7	276.1	265.2	283.9	168.5	140.4	127.9
62.5°	16218.3	13965.8	4870.0	1046.7	338.5	234.0	212.1	240.2	149.8	121.7	110.8
65°	15205.9	12335.7	4122.8	1012.4	329.1	193.4	176.3	171.6	127.9	103.0	93.6
67.5°	13231.1	10438.9	3339.8	989.0	332.3	162.2	154.4	129.5	106.1	85.8	79.6
70°	10593.3	8139.6	2734.5	962.5	335.4	132.6	129.5	103.0	85.8	71.8	65.5
72.5°	6436.2	4824.8	2152.7	836.1	326.0	106.1	115.4	78.0	62.4	51.5	48.4
75°	3979.3	3302.3	1335.3	650.5	215.3	78.0	81.1	48.4	42.1	32.8	32.8
77.5°	2305.5	2085.6	477.3	234.0	95.2	46.8	35.9	25.0	23.4	14.0	14.0
80°	956.2	765.9	165.3	79.6	51.5	21.8	7.8	1.6	0.0	0.0	0.0
82.5°	279.2	248.0	45.2	35.9	15.6	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°	6862.0	6862.0	6862.0	6862.0	6862.0	6862.0	6862.0	6862.0	6862.0	6862.0	6862.0
2.5°	5550.1	5498.7	5475.3	5554.8	5481.5	5575.1	5503.3	5534.5	5626.6	5667.1	5771.6
5°	4154.0	4101.0	4076.0	4196.1	4189.9	4249.2	4242.9	4297.5	4344.3	4239.8	4347.4
7.5°	2893.6	2857.7	2917.0	3010.6	3110.4	3077.7	3077.7	3004.4	3029.3	3013.7	3009.1
10°	2201.0	2077.8	2046.6	2043.5	2080.9	2088.7	2046.6	1945.2	1982.6	1993.6	2059.1
12.5°	1731.5	1636.3	1491.3	1425.8	1408.6	1422.6	1283.8	1194.9	1237.0	1212.0	1276.0
15°	1241.7	1163.7	1077.9	1004.6	984.3	956.2	804.9	698.8	686.4	691.0	702.0
17.5°	886.0	833.0	833.0	755.0	712.9	628.6	552.2	505.4	500.7	505.4	513.2
20°	653.6	625.5	622.4	602.1	555.3	499.2	446.1	436.8	433.7	441.5	444.6
22.5°	563.1	533.5	508.5	507.0	463.3	416.5	391.5	379.1	380.6	383.7	391.5
25°	503.8	472.7	446.1	430.5	399.3	366.6	343.2	336.9	336.9	341.6	343.2
27.5°	461.7	422.7	399.3	377.5	349.4	321.3	301.1	296.4	293.3	296.4	304.2
30°	432.1	393.1	363.5	330.7	308.9	282.3	265.2	258.9	257.4	258.9	265.2
32.5°	369.7	346.3	322.9	293.3	266.7	249.6	230.9	219.9	219.9	223.1	229.3
35°	279.2	266.7	265.2	257.4	235.5	216.8	195.0	184.1	184.1	190.3	193.4
37.5°	246.5	223.1	219.9	216.8	207.5	182.5	162.2	152.9	151.3	156.0	162.2
40°	224.6	198.1	184.1	180.9	182.5	154.4	132.6	123.2	123.2	124.8	131.0
42.5°	207.5	176.3	151.3	148.2	154.4	129.5	107.6	98.3	98.3	98.3	106.1
45°	193.4	157.6	127.9	112.3	121.7	106.1	87.4	78.0	74.9	78.0	81.1
47.5°	184.1	143.5	112.3	90.5	90.5	84.2	70.2	59.3	56.2	57.7	62.4
50°	176.3	131.0	95.2	73.3	65.5	67.1	53.0	45.2	42.1	42.1	46.8
52.5°	163.8	118.6	82.7	62.4	49.9	45.2	39.0	32.8	31.2	32.8	35.9
55°	148.2	107.6	71.8	51.5	39.0	31.2	28.1	23.4	21.8	23.4	28.1
57.5°	131.0	90.5	57.7	40.6	26.5	20.3	18.7	15.6	12.5	14.0	17.2
59°	120.1	81.1	49.9	32.8	20.3	14.0	14.0	10.9	7.8	9.4	14.0
60°	115.4	74.9	42.1	28.1	17.2	10.9	10.9	7.8	4.7	6.2	10.9
62.5°	98.3	62.4	32.8	17.2	7.8	1.6	4.7	1.6	0.0	1.6	4.7
65°	82.7	49.9	21.8	7.8	0.0	0.0	0.0	0.0	0.0	0.0	1.6
67.5°	68.6	37.4	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	54.6	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	37.4	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	23.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.4	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°	6862.0	6862.0	6862.0	6862.0	6862.0	6862.0	6862.0	6862.0	6862.0	6862.0
2.5°	5777.9	6000.9	6138.2	6397.2	6662.3	6866.7	7122.5	7351.8	7447.0	7496.9
5°	4456.6	4767.1	5030.7	5425.3	5791.9	6238.1	6690.4	7223.9	7428.3	7481.3
7.5°	3127.6	3444.3	3720.4	4177.4	4700.0	5297.4	5974.4	6651.4	6949.4	7033.6
10°	2258.7	2597.2	2934.2	3391.2	3879.5	4526.8	5231.9	6069.6	6412.8	6478.3
12.5°	1425.8	1789.2	2336.7	2901.4	3417.7	3938.8	4676.6	5587.6	5966.6	6086.7
15°	826.7	1098.2	1511.5	2247.8	2904.5	3594.0	4398.9	5406.6	5830.9	5954.1
17.5°	553.8	647.4	931.3	1494.4	2361.7	3275.8	4328.7	5554.8	6024.3	6181.9
20°	466.4	508.5	608.4	911.0	1818.8	2991.9	4347.4	5957.3	6573.4	6770.0
22.5°	410.3	449.3	513.2	655.2	1269.8	2639.4	4436.4	6532.9	7328.4	7579.6
25°	361.9	400.9	457.1	542.8	853.3	2232.2	4631.4	7375.2	8328.3	8604.4
27.5°	321.3	357.2	405.6	478.9	656.7	1778.3	4804.5	8195.7	9240.9	9465.5
30°	283.9	313.5	360.3	416.5	546.0	1371.2	4891.9	8913.3	9905.4	10155.0
32.5°	246.5	274.5	319.8	365.0	449.3	1045.1	4831.0	9440.5	10551.2	10710.3
35°	210.6	240.2	277.7	319.8	388.4	843.9	4526.8	10033.3	11220.4	11345.2
37.5°	180.9	205.9	244.9	277.7	351.0	675.4	4158.7	10566.8	11970.7	12150.1
40°	152.9	177.8	216.8	246.5	322.9	531.9	3826.4	11159.5	12761.6	12983.1
42.5°	124.8	154.4	188.7	237.1	277.7	405.6	3424.0	11640.0	13355.9	13633.5
45°	99.8	132.6	170.0	235.5	241.8	308.9	3035.6	12014.4	13881.6	14131.2
47.5°	79.6	112.3	163.8	219.9	198.1	244.9	2814.1	12405.9	14318.3	14518.0
50°	64.0	93.6	171.6	193.4	165.3	207.5	2807.8	12842.7	14544.5	14677.1
52.5°	51.5	76.4	145.1	148.2	140.4	182.5	2976.3	13334.0	14775.4	14884.6
55°	43.7	64.0	95.2	109.2	126.4	165.3	3102.6	14090.6	15326.0	15429.0
57.5°	34.3	54.6	73.3	87.4	112.3	151.3	3119.8	14674.0	16023.3	16090.4
59°	29.6	46.8	65.5	78.0	103.0	142.0	3049.6	14709.9	16068.6	16176.2
60°	25.0	42.1	57.7	73.3	95.2	134.2	2973.2	14449.4	15900.1	16020.2
62.5°	18.7	32.8	42.1	59.3	78.0	115.4	2611.3	13540.0	15255.8	15340.1
65°	12.5	23.4	31.2	43.7	60.8	99.8	2127.7	12360.7	14260.6	14449.4
67.5°	7.8	17.2	25.0	32.8	49.9	84.2	1516.2	10599.5	12867.6	12989.3
70°	4.7	10.9	18.7	26.5	39.0	67.1	900.1	8378.2	10705.6	10730.6
72.5°	3.1	7.8	12.5	18.7	31.2	60.8	436.8	5461.2	7816.7	8114.6
75°	1.6	4.7	7.8	14.0	25.0	49.9	209.0	3648.6	5687.4	5773.2
77.5°	0.0	1.6	4.7	9.4	18.7	39.0	121.7	2396.0	3877.9	3966.8
80°	0.0	0.0	3.1	7.8	14.0	25.0	73.3	1413.3	2349.2	2392.9
82.5°	0.0	0.0	1.6	6.2	9.4	18.7	37.4	620.8	1538.1	1553.7
85°	0.0	0.0	1.6	6.2	7.8	12.5	14.0	84.2	683.2	695.7
87.5°	0.0	0.0	1.6	7.8	7.8	7.8	7.8	4.7	57.7	71.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)