

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: P459134

Luminaire Tested: **GALN-SA6B-735-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459134
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-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 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: 22573 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

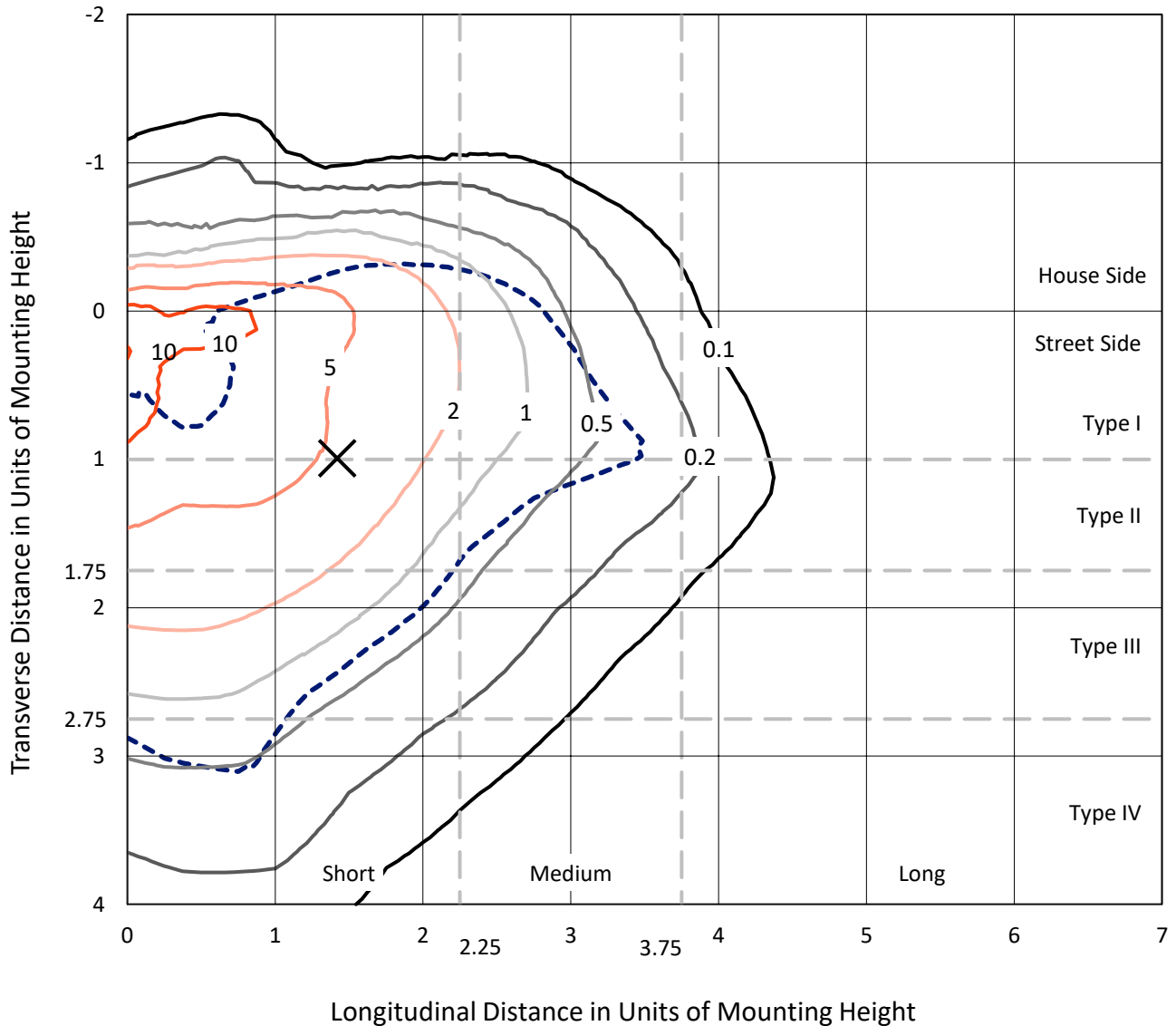
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

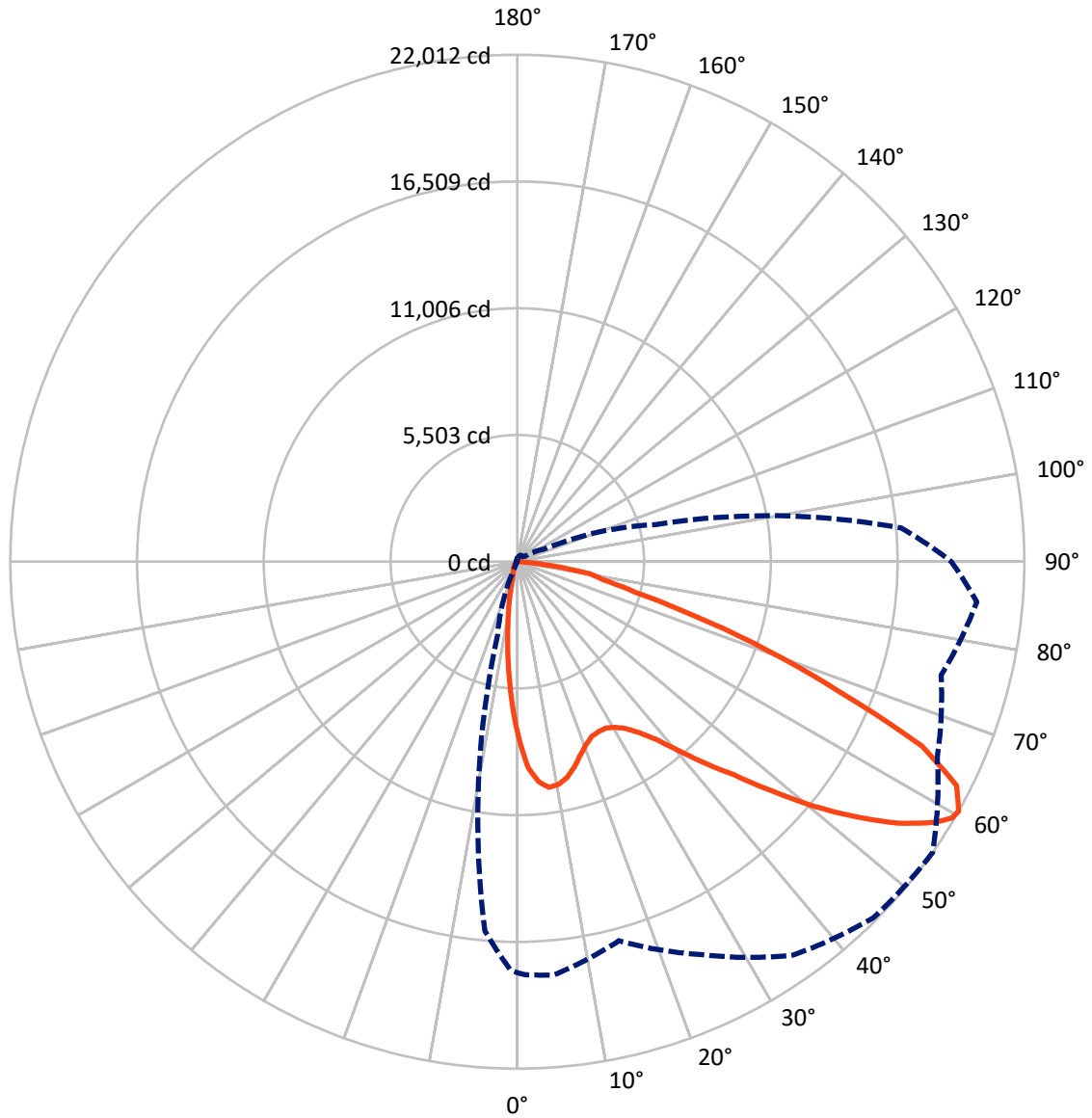
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 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	3350.0	0.0	3350.0
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	19223.0	0.0	19223.0
	% Fixture	85.2	0.0	85.2
Total	Lumens	22573.0	0.0	22573.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.0	2.5
10°-20°	1114.6	4.9
20°-30°	1649.7	7.3
30°-40°	2459.1	10.9
40°-50°	3601.4	16.0
50°-60°	5199.3	23.0
60°-70°	5469.4	24.2
70°-80°	2249.9	10.0
80°-90°	263.5	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°	22573.0	100.0
0°-180°	22573.0	100.0

Coefficient of Utilization



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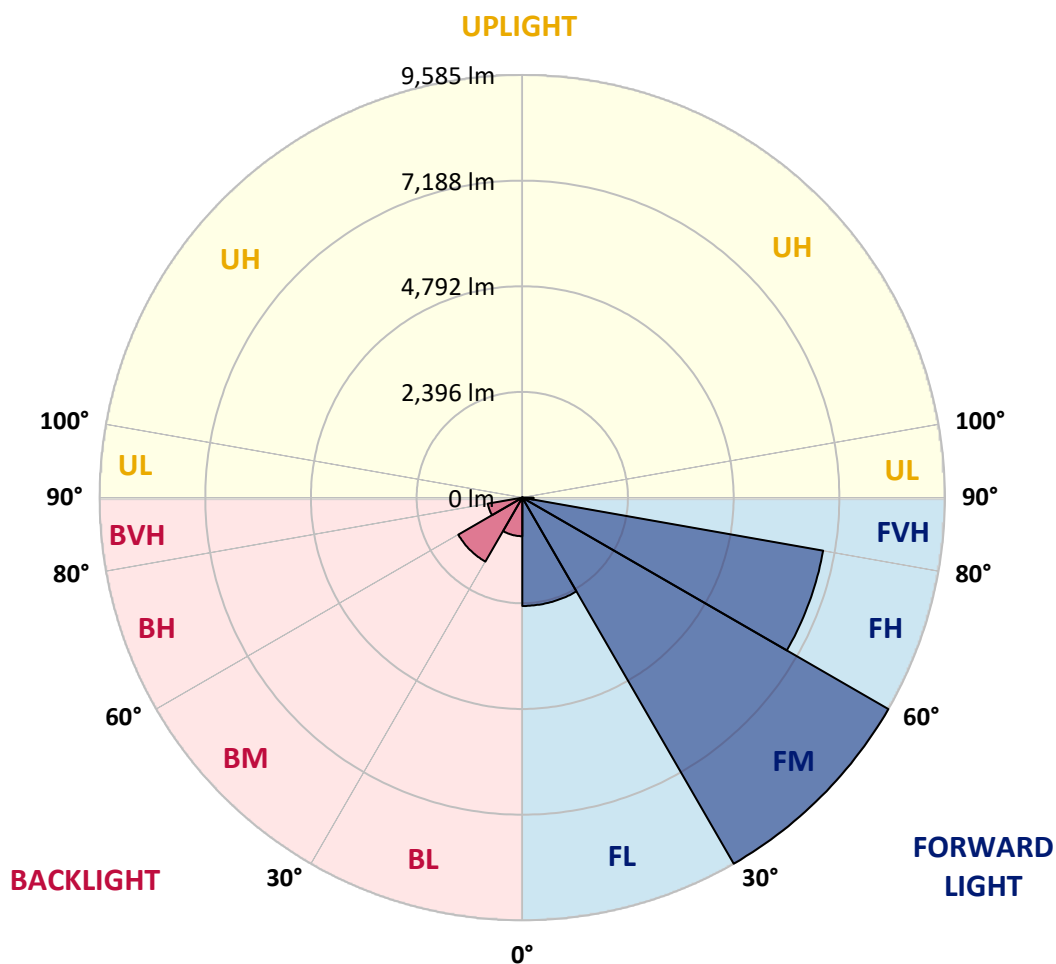
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2456.3	10.9			
FM	(30°-60°)	9584.5	42.5			
FH	(60°-80°)	6926.4	30.7			G3/7500
FVH	(80°-90°)	255.8	1.1			G3/500
BL	(0°-30°)	874.0	3.9	B2/1000		
BM	(30°-60°)	1675.3	7.4	B2/2500		
BH	(60°-80°)	792.9	3.5	B2/1000		G2/1000
BVH	(80°-90°)	7.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	7643.2	7643.2	7643.2	7643.2	7643.2	7643.2	7643.2	7643.2	7643.2	7643.2	7643.2
2.5°	8350.3	8336.4	8459.8	8661.3	8864.6	8970.6	8949.7	8941.0	8772.5	8649.2	8390.3
5°	8332.9	8404.2	8624.8	9170.4	9583.9	9783.7	9842.8	9594.3	9266.0	8789.9	8202.6
7.5°	7834.3	7922.9	8282.5	9135.6	9870.6	10305.0	10289.3	9891.4	9213.8	8477.1	7639.7
10°	7215.7	7320.0	7742.2	8777.7	9731.6	10305.0	10336.2	9832.4	8989.7	8044.5	7163.6
12.5°	6779.6	6903.0	7370.4	8444.1	9373.7	9938.4	9974.8	9610.0	8821.2	7877.7	6904.7
15°	6631.9	6748.4	7222.7	8275.6	8993.2	9297.2	9288.5	9250.3	8755.1	7917.7	6918.6
17.5°	6885.6	6981.2	7516.3	8352.0	8637.0	8605.7	8650.9	8835.1	8769.0	8253.0	7356.5
20°	7540.6	7637.9	8213.0	8586.6	8364.2	8166.1	8187.0	8494.5	8897.6	8883.7	8041.0
22.5°	8442.4	8607.5	9128.7	9041.8	8327.7	7893.4	7849.9	8249.5	9116.5	9610.0	8965.4
25°	9583.9	9750.7	10157.3	9768.1	8506.7	7829.1	7789.1	8174.8	9382.4	10318.9	10006.1
27.5°	10543.0	10669.8	11074.7	10475.2	8770.8	7856.9	7790.8	8185.2	9597.8	10921.8	10883.5
30°	11311.0	11404.8	11642.8	10805.4	8998.4	7978.5	7902.0	8338.1	9693.4	11215.4	11594.2
32.5°	11929.5	12087.6	12162.3	11158.1	9325.0	8207.8	8077.5	8631.8	9926.2	11578.5	12339.6
35°	12636.7	12819.1	12723.5	11495.1	9755.9	8565.8	8405.9	9107.8	10278.9	11913.9	13204.8
37.5°	13533.2	13743.4	13369.9	11849.6	10211.1	9104.4	9029.7	9776.8	10814.0	12393.4	14132.6
40°	14461.0	14582.6	13997.1	12280.5	10770.6	9888.0	9959.2	10770.6	11514.3	12968.5	15119.5
42.5°	15185.5	15300.2	14641.7	12641.9	11342.2	10817.5	11114.6	11969.5	12317.0	13557.5	15856.2
45°	15739.8	15837.1	15088.2	13036.3	12113.7	12164.1	12725.3	13204.8	13121.4	13917.2	16424.4
47.5°	16170.7	16254.1	15432.3	13460.2	13269.1	13811.2	14669.5	14872.8	13955.4	14306.4	16938.7
50°	16347.9	16372.2	15540.0	14000.6	14580.9	15910.1	16804.9	16681.5	14911.0	14739.0	17486.0
52.5°	16579.0	16573.8	15847.5	14514.9	15814.5	17786.5	18679.6	18399.9	15991.7	15387.1	18101.0
55°	17185.4	17192.3	16506.0	15244.6	16865.7	19301.6	20257.2	20053.9	17131.5	16481.7	18818.6
57.5°	17922.1	17948.1	17442.5	16097.7	17869.9	20399.7	21435.2	21357.1	18672.7	17699.7	19496.2
59°	18017.6	18069.7	17885.6	16698.9	18465.9	20736.8	21838.3	21914.8	19498.0	18502.4	19862.8
60°	17843.9	17930.7	18014.1	17039.4	18815.1	20858.4	21862.7	22012.1	20118.2	19047.9	20029.6
62.5°	17086.3	17223.6	17642.3	18087.1	19251.2	20479.6	21086.0	21398.8	20886.2	20481.4	20045.3
65°	16094.2	16165.5	16770.1	18273.0	18405.1	18710.9	18898.5	19299.9	19963.6	21033.9	19327.7
67.5°	14468.0	14678.2	15418.4	17194.1	15908.3	15546.9	15500.0	15100.4	16824.0	19716.9	17558.9
70°	11952.1	12045.9	12958.1	14096.1	12006.0	11450.0	11672.4	11522.9	13041.5	16973.4	14132.6
72.5°	9038.3	9250.3	10141.6	11236.3	8169.6	7448.6	8061.9	8006.3	9795.9	13640.9	9709.0
75°	6430.4	6567.7	7704.0	8793.4	5721.5	4847.6	5068.2	5275.0	6838.7	10770.6	5737.1
77.5°	4418.4	4536.5	5389.6	5815.3	4173.4	3997.9	3657.4	3857.2	4480.9	6390.4	3122.2
80°	2665.3	2660.1	3221.3	3325.5	2906.8	3375.9	2832.1	3179.6	2708.7	2734.8	1209.3
82.5°	1730.5	1713.2	1970.3	2147.5	1617.6	1701.0	1141.5	1645.4	1765.3	762.8	382.2
85°	774.9	807.9	946.9	1249.2	708.9	377.0	232.8	505.6	752.3	384.0	0.0
87.5°	79.9	62.5	166.8	304.1	97.3	10.4	34.7	17.4	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°	7643.2	7643.2	7643.2	7643.2	7643.2	7643.2	7643.2	7643.2	7643.2	7643.2	7643.2
2.5°	8270.4	8169.6	7869.0	7587.6	7346.0	7050.7	6859.6	6559.0	6376.5	6320.9	6329.6
5°	7938.5	7648.4	7076.7	6619.8	6110.7	5820.5	5379.2	4955.3	4725.9	4640.8	4602.6
7.5°	7243.5	6932.5	6242.7	5525.2	4979.6	4470.5	4142.1	3768.6	3513.2	3302.9	3266.5
10°	6727.5	6319.2	5464.4	4692.9	4262.0	3879.8	3551.4	3177.8	2877.3	2637.5	2571.5
12.5°	6418.2	5961.3	5007.4	4361.1	3952.8	3560.1	3132.7	2700.0	2392.5	2133.6	2013.7
15°	6362.6	5832.7	4878.8	4123.0	3619.2	3144.8	2576.7	2109.3	1793.1	1548.1	1473.4
17.5°	6698.0	6063.8	4859.7	3874.6	3183.1	2510.7	1919.9	1532.5	1176.3	1039.0	985.1
20°	7295.7	6472.1	4858.0	3586.1	2734.8	1933.8	1348.3	999.0	854.8	788.8	757.5
22.5°	8110.5	7028.1	4950.1	3337.7	2269.1	1426.5	962.6	795.8	712.4	658.5	646.3
25°	9106.1	7851.7	5175.9	3169.2	1913.0	1118.9	794.0	681.1	611.6	587.3	576.8
27.5°	9990.5	8640.5	5424.4	2995.4	1657.6	990.4	736.7	623.8	568.2	549.0	533.4
30°	10753.2	9356.3	5544.3	2766.1	1452.5	907.0	747.1	667.2	594.2	536.9	510.8
32.5°	11389.2	9905.3	5622.5	2557.6	1278.8	741.9	590.7	516.0	483.0	462.2	444.8
35°	12184.9	10499.6	5575.6	2439.4	1190.2	675.9	538.6	444.8	389.2	347.5	330.1
37.5°	13018.9	11093.8	5493.9	2342.1	1150.2	627.2	512.6	422.2	361.4	318.0	295.4
40°	13882.4	11644.6	5398.3	2251.8	1113.7	596.0	496.9	403.1	342.3	295.4	271.0
42.5°	14673.0	12181.4	5360.1	2192.7	1054.6	601.2	484.8	394.4	323.2	274.5	253.7
45°	15312.4	12690.5	5412.2	2161.4	990.4	592.5	488.2	384.0	307.5	260.6	239.8
47.5°	15995.2	13409.8	5580.8	2130.1	927.8	550.8	514.3	382.2	300.6	251.9	229.3
50°	16789.2	14330.7	5966.5	2053.7	851.4	505.6	547.3	380.5	291.9	241.5	218.9
52.5°	17847.3	15376.7	6364.4	1919.9	740.2	462.2	523.0	375.3	274.5	229.3	206.8
55°	18797.7	16478.2	6701.4	1761.8	599.4	399.6	470.9	352.7	245.0	208.5	187.6
57.5°	19190.4	17100.2	6691.0	1542.9	479.5	351.0	387.5	323.2	213.7	184.2	166.8
59°	19046.2	17022.0	6466.9	1381.3	437.8	324.9	321.4	319.7	199.8	166.8	152.9
60°	18842.9	16737.1	6225.4	1301.4	411.8	307.5	295.4	316.2	187.6	156.4	142.5
62.5°	18064.5	15555.6	5424.4	1165.8	377.0	260.6	236.3	267.6	166.8	135.5	123.4
65°	16936.9	13740.0	4592.1	1127.6	366.6	215.4	196.3	191.1	142.5	114.7	104.2
67.5°	14737.3	11627.2	3719.9	1101.6	370.1	180.7	172.0	144.2	118.1	95.6	88.6
70°	11799.2	9066.1	3045.8	1072.0	373.6	147.7	144.2	114.7	95.6	79.9	73.0
72.5°	7168.8	5374.0	2397.7	931.3	363.1	118.1	128.6	86.9	69.5	57.3	53.9
75°	4432.3	3678.2	1487.3	724.5	239.8	86.9	90.3	53.9	46.9	36.5	36.5
77.5°	2568.0	2323.0	531.7	260.6	106.0	52.1	40.0	27.8	26.1	15.6	15.6
80°	1065.1	853.1	184.2	88.6	57.3	24.3	8.7	1.7	0.0	0.0	0.0
82.5°	311.0	276.3	50.4	40.0	17.4	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°	7643.2	7643.2	7643.2	7643.2	7643.2	7643.2	7643.2	7643.2	7643.2	7643.2	7643.2
2.5°	6181.9	6124.6	6098.5	6187.2	6105.5	6209.7	6129.8	6164.6	6267.1	6312.2	6428.7
5°	4626.9	4567.8	4540.0	4673.8	4666.9	4732.9	4725.9	4786.7	4838.9	4722.5	4842.3
7.5°	3223.0	3183.1	3249.1	3353.3	3464.5	3428.0	3428.0	3346.4	3374.2	3356.8	3351.6
10°	2451.6	2314.3	2279.6	2276.1	2317.8	2326.5	2279.6	2166.6	2208.3	2220.5	2293.5
12.5°	1928.6	1822.6	1661.0	1588.1	1568.9	1584.6	1429.9	1330.9	1377.8	1350.0	1421.3
15°	1383.0	1296.2	1200.6	1118.9	1096.3	1065.1	896.5	778.4	764.5	769.7	781.9
17.5°	986.9	927.8	927.8	840.9	794.0	700.2	615.1	562.9	557.7	562.9	571.6
20°	728.0	696.7	693.3	670.7	618.5	556.0	496.9	486.5	483.0	491.7	495.2
22.5°	627.2	594.2	566.4	564.7	516.0	463.9	436.1	422.2	423.9	427.4	436.1
25°	561.2	526.5	496.9	479.5	444.8	408.3	382.2	375.3	375.3	380.5	382.2
27.5°	514.3	470.9	444.8	420.5	389.2	357.9	335.3	330.1	326.6	330.1	338.8
30°	481.3	437.8	404.8	368.3	344.0	314.5	295.4	288.4	286.7	288.4	295.4
32.5°	411.8	385.7	359.7	326.6	297.1	278.0	257.1	245.0	245.0	248.5	255.4
35°	311.0	297.1	295.4	286.7	262.4	241.5	217.2	205.0	205.0	212.0	215.4
37.5°	274.5	248.5	245.0	241.5	231.1	203.3	180.7	170.3	168.5	173.7	180.7
40°	250.2	220.7	205.0	201.5	203.3	172.0	147.7	137.3	137.3	139.0	145.9
42.5°	231.1	196.3	168.5	165.1	172.0	144.2	119.9	109.5	109.5	109.5	118.1
45°	215.4	175.5	142.5	125.1	135.5	118.1	97.3	86.9	83.4	86.9	90.3
47.5°	205.0	159.8	125.1	100.8	100.8	93.8	78.2	66.0	62.5	64.3	69.5
50°	196.3	145.9	106.0	81.7	73.0	74.7	59.1	50.4	46.9	46.9	52.1
52.5°	182.4	132.0	92.1	69.5	55.6	50.4	43.4	36.5	34.7	36.5	40.0
55°	165.1	119.9	79.9	57.3	43.4	34.7	31.3	26.1	24.3	26.1	31.3
57.5°	145.9	100.8	64.3	45.2	29.5	22.6	20.8	17.4	13.9	15.6	19.1
59°	133.8	90.3	55.6	36.5	22.6	15.6	15.6	12.2	8.7	10.4	15.6
60°	128.6	83.4	46.9	31.3	19.1	12.2	12.2	8.7	5.2	6.9	12.2
62.5°	109.5	69.5	36.5	19.1	8.7	1.7	5.2	1.7	0.0	1.7	5.2
65°	92.1	55.6	24.3	8.7	0.0	0.0	0.0	0.0	0.0	0.0	1.7
67.5°	76.4	41.7	12.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	60.8	27.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	41.7	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	26.1	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.4	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°	7643.2	7643.2	7643.2	7643.2	7643.2	7643.2	7643.2	7643.2	7643.2	7643.2
2.5°	6435.6	6684.1	6837.0	7125.4	7420.8	7648.4	7933.3	8188.7	8294.7	8350.3
5°	4964.0	5309.7	5603.4	6042.9	6451.2	6948.2	7452.0	8046.2	8273.9	8332.9
7.5°	3483.6	3836.3	4143.9	4653.0	5235.0	5900.5	6654.5	7408.6	7740.5	7834.3
10°	2515.9	2892.9	3268.2	3777.3	4321.1	5042.2	5827.5	6760.5	7142.8	7215.7
12.5°	1588.1	1992.9	2602.7	3231.7	3806.8	4387.1	5209.0	6223.6	6645.8	6779.6
15°	920.9	1223.2	1683.6	2503.7	3235.2	4003.1	4899.7	6022.1	6494.7	6631.9
17.5°	616.8	721.1	1037.3	1664.5	2630.5	3648.7	4821.5	6187.2	6710.1	6885.6
20°	519.5	566.4	677.6	1014.7	2025.9	3332.5	4842.3	6635.4	7321.7	7540.6
22.5°	457.0	500.4	571.6	729.7	1414.3	2939.8	4941.4	7276.5	8162.7	8442.4
25°	403.1	446.5	509.1	604.6	950.4	2486.3	5158.6	8214.8	9276.4	9583.9
27.5°	357.9	397.9	451.7	533.4	731.5	1980.7	5351.4	9128.7	10292.8	10543.0
30°	316.2	349.2	401.4	463.9	608.1	1527.2	5448.7	9927.9	11033.0	11311.0
32.5°	274.5	305.8	356.2	406.6	500.4	1164.1	5381.0	10515.2	11752.3	11929.5
35°	234.6	267.6	309.3	356.2	432.6	940.0	5042.2	11175.4	12497.7	12636.7
37.5°	201.5	229.3	272.8	309.3	390.9	752.3	4632.1	11769.7	13333.4	13533.2
40°	170.3	198.1	241.5	274.5	359.7	592.5	4262.0	12429.9	14214.3	14461.0
42.5°	139.0	172.0	210.2	264.1	309.3	451.7	3813.8	12965.0	14876.3	15185.5
45°	111.2	147.7	189.4	262.4	269.3	344.0	3381.1	13382.0	15461.8	15739.8
47.5°	88.6	125.1	182.4	245.0	220.7	272.8	3134.4	13818.1	15948.3	16170.7
50°	71.2	104.2	191.1	215.4	184.2	231.1	3127.5	14304.6	16200.2	16347.9
52.5°	57.3	85.1	161.6	165.1	156.4	203.3	3315.1	14851.9	16457.4	16579.0
55°	48.6	71.2	106.0	121.6	140.7	184.2	3455.8	15694.6	17070.7	17185.4
57.5°	38.2	60.8	81.7	97.3	125.1	168.5	3475.0	16344.4	17847.3	17922.1
59°	33.0	52.1	73.0	86.9	114.7	158.1	3396.8	16384.4	17897.7	18017.6
60°	27.8	46.9	64.3	81.7	106.0	149.4	3311.6	16094.2	17710.1	17843.9
62.5°	20.8	36.5	46.9	66.0	86.9	128.6	2908.5	15081.3	16992.5	17086.3
65°	13.9	26.1	34.7	48.6	67.8	111.2	2369.9	13767.8	15884.0	16094.2
67.5°	8.7	19.1	27.8	36.5	55.6	93.8	1688.8	11806.1	14332.4	14468.0
70°	5.2	12.2	20.8	29.5	43.4	74.7	1002.5	9332.0	11924.3	11952.1
72.5°	3.5	8.7	13.9	20.8	34.7	67.8	486.5	6082.9	8706.5	9038.3
75°	1.7	5.2	8.7	15.6	27.8	55.6	232.8	4064.0	6334.8	6430.4
77.5°	0.0	1.7	5.2	10.4	20.8	43.4	135.5	2668.8	4319.4	4418.4
80°	0.0	0.0	3.5	8.7	15.6	27.8	81.7	1574.2	2616.6	2665.3
82.5°	0.0	0.0	1.7	6.9	10.4	20.8	41.7	691.5	1713.2	1730.5
85°	0.0	0.0	1.7	6.9	8.7	13.9	15.6	93.8	761.0	774.9
87.5°	0.0	0.0	1.7	8.7	8.7	8.7	8.7	5.2	64.3	79.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)