

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: P528001

Luminaire Tested: **GALN-SA3A-740-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528001  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-740-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7547 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

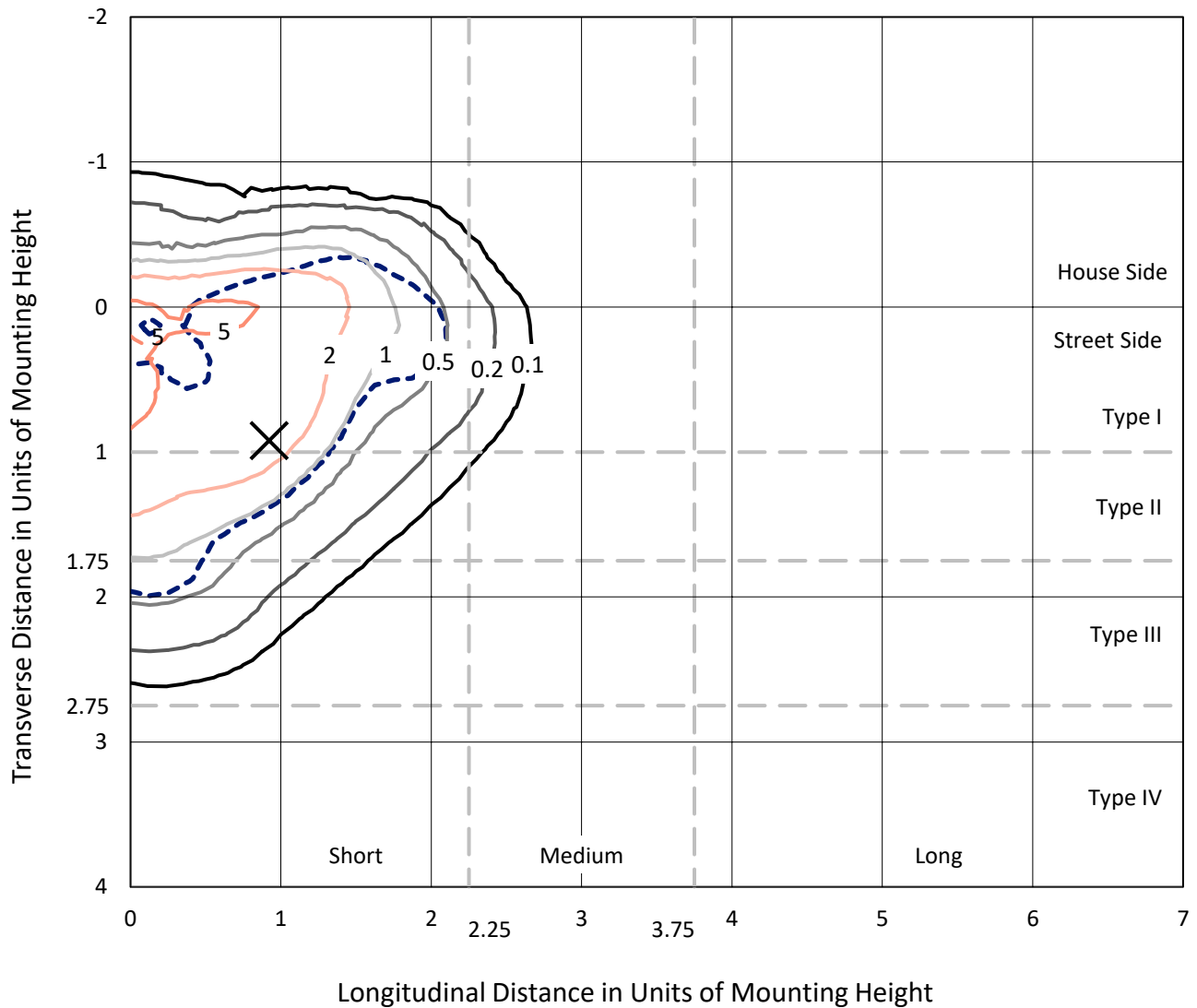
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

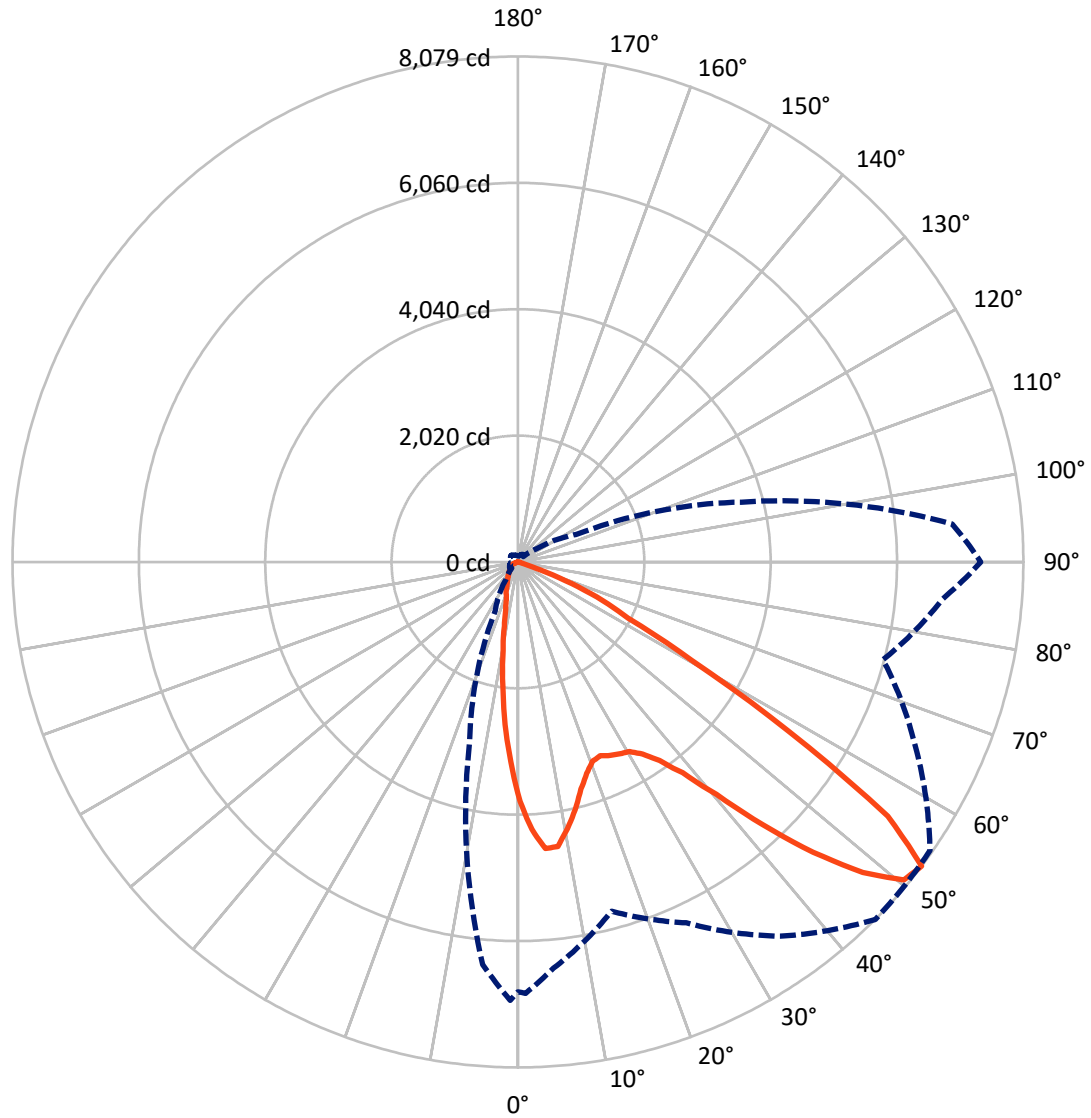
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1531.7	0.0	1531.7
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	6015.3	0.0	6015.3
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	7547.0	0.0	7547.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.1	3.7
10°-20°	550.6	7.3
20°-30°	837.9	11.1
30°-40°	1252.4	16.6
40°-50°	1783.5	23.6
50°-60°	1917.2	25.4
60°-70°	849.6	11.3
70°-80°	68.7	0.9
80°-90°	8.0	0.1
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°	7547.0	100.0
0°-180°	7547.0	100.0

**Coefficient of Utilization**

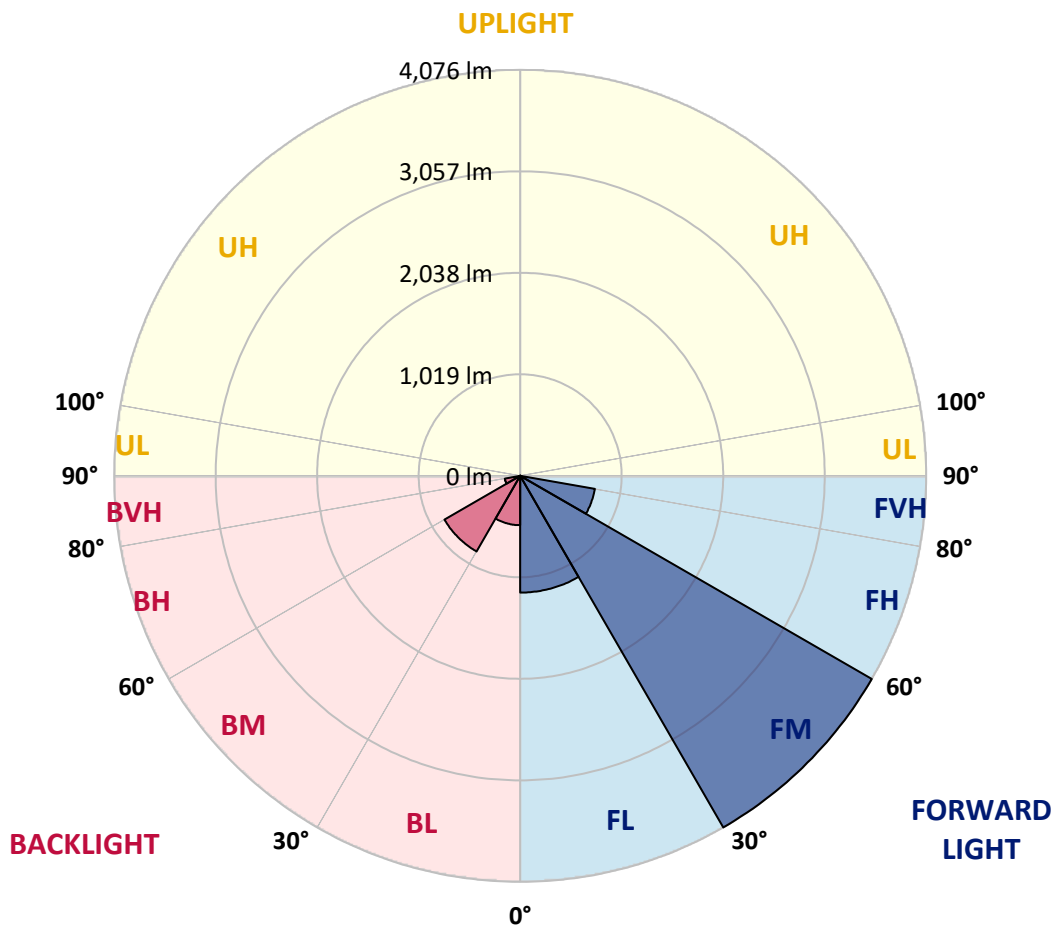


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1172.2	15.5			
FM (30°-60°)	4075.6	54.0			
FH (60°-80°)	761.6	10.1			G1/1800
FVH (80°-90°)	5.9	0.1			G0/10
BL (0°-30°)	495.4	6.6	B1/500		
BM (30°-60°)	877.5	11.6	B1/1000		
BH (60°-80°)	156.7	2.1	B1/500		G1/500
BVH (80°-90°)	2.1	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-G1**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3826.7	3826.7	3826.7	3826.7	3826.7	3826.7	3826.7	3826.7	3826.7	3826.7	3826.7
2.5°	4049.3	4061.2	4126.5	4208.2	4251.2	4349.2	4280.9	4298.7	4261.6	4131.0	4028.6
5°	3926.1	3924.6	4007.8	4209.6	4401.1	4595.6	4601.5	4497.6	4315.0	4114.6	3828.2
7.5°	3555.0	3612.9	3699.0	4021.1	4375.9	4521.4	4591.1	4469.4	4188.9	3902.4	3592.2
10°	3274.5	3304.2	3449.7	3838.6	4098.3	4292.8	4335.8	4266.1	4050.8	3693.1	3345.7
12.5°	3112.7	3127.5	3298.2	3624.8	3899.4	4043.4	4064.2	4096.8	3942.5	3607.0	3189.9
15°	3114.2	3126.1	3356.1	3629.3	3737.6	3699.0	3767.3	3765.8	3832.6	3590.7	3320.5
17.5°	3338.3	3351.7	3559.5	3694.6	3647.1	3556.5	3552.1	3620.4	3761.4	3794.0	3517.9
20°	3724.3	3755.4	3908.3	3900.9	3633.7	3451.1	3400.7	3452.6	3780.7	3966.2	3915.7
22.5°	4243.8	4286.8	4393.7	4188.9	3694.6	3379.9	3363.6	3464.5	3908.3	4350.7	4367.0
25°	4846.4	4919.2	4971.1	4708.4	3911.3	3503.1	3425.9	3599.6	4080.5	4767.8	4941.4
27.5°	5245.7	5321.4	5309.6	4934.0	4056.8	3535.7	3470.4	3632.2	4230.4	4867.2	5241.3
30°	5557.4	5603.5	5686.6	5055.7	4202.2	3627.8	3516.4	3770.3	4279.4	5039.4	5603.5
32.5°	5921.1	5952.3	5958.2	5271.0	4426.4	3743.6	3658.9	3942.5	4496.1	5204.2	5924.1
35°	6287.7	6333.8	6237.3	5536.7	4564.4	3958.8	3896.4	4240.8	4669.8	5374.9	6277.4
37.5°	6685.6	6709.3	6486.7	5646.5	4761.8	4309.1	4275.0	4562.9	4971.1	5683.6	6669.2
40°	7019.5	7041.8	6752.4	5781.6	4969.6	4798.9	4886.5	5177.4	5380.8	5884.0	6865.2
42.5°	7205.1	7257.0	6841.4	5707.4	5386.7	5354.1	5743.0	5845.4	5855.8	5940.4	7040.3
45°	7255.6	7231.8	6694.5	5768.2	5751.9	6267.0	6620.2	6755.3	6327.8	6044.3	7084.8
47.5°	7022.5	7053.7	6477.7	5714.8	6231.3	6958.7	7415.9	7666.7	6679.6	5953.8	6975.0
50°	6834.0	6793.9	6408.0	5676.2	6360.5	7285.2	7990.3	8046.7	7003.2	6065.1	6854.8
52.5°	6871.1	6896.3	6519.3	5778.6	6363.5	7304.5	8079.4	8040.8	7013.6	6039.9	6811.7
55°	6949.8	6838.4	6471.8	5553.0	5937.4	6765.7	7170.9	7111.6	6473.3	5771.2	6706.3
57.5°	5996.8	6169.0	5950.8	4957.8	4873.2	5097.3	5089.9	5272.4	4828.6	4966.7	6105.2
60°	4867.2	4896.9	4978.5	4240.8	3372.5	3295.3	3188.4	3072.6	3249.3	4246.8	5553.0
62.5°	4280.9	4245.3	4536.2	3857.9	2380.9	1993.5	1975.7	2046.9	2507.1	4050.8	5208.6
65°	3111.2	3155.7	3366.5	2994.0	1787.2	1521.5	1494.8	1705.5	2029.1	3246.3	3975.1
67.5°	1900.0	1986.1	2005.4	1846.5	1212.7	963.3	924.8	1116.2	1465.1	2100.4	2330.4
70°	877.3	981.2	1079.1	1007.9	702.1	396.3	374.1	469.1	739.2	1208.3	1236.5
72.5°	265.7	267.2	374.1	390.4	227.1	89.1	78.7	103.9	250.9	399.3	420.1
75°	19.3	20.8	50.5	57.9	43.0	22.3	23.7	28.2	53.4	89.1	66.8
77.5°	1.5	1.5	1.5	7.4	13.4	14.8	19.3	22.3	28.2	32.7	29.7
80°	1.5	0.0	1.5	5.9	10.4	14.8	17.8	20.8	22.3	25.2	22.3
82.5°	0.0	0.0	0.0	4.5	10.4	14.8	16.3	22.3	25.2	29.7	25.2
85°	0.0	0.0	0.0	4.5	10.4	16.3	14.8	7.4	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3826.7	3826.7	3826.7	3826.7	3826.7	3826.7	3826.7	3826.7	3826.7	3826.7	3826.7
2.5°	4046.4	3988.5	3856.4	3789.6	3632.2	3610.0	3455.6	3430.4	3378.4	3350.2	3281.9
5°	3702.0	3632.2	3417.0	3235.9	3025.1	2878.2	2765.4	2662.9	2603.6	2548.6	2573.9
7.5°	3421.4	3218.1	2979.1	2676.3	2432.9	2275.5	2103.3	1962.3	1879.2	1822.8	1836.2
10°	3127.5	2995.4	2662.9	2323.0	2029.1	1917.8	1782.7	1674.4	1557.1	1456.2	1408.7
12.5°	3035.5	2839.6	2422.5	2076.6	1854.0	1745.6	1591.2	1466.5	1316.6	1193.4	1150.4
15°	3051.8	2863.3	2357.2	1987.6	1724.8	1537.8	1353.7	1199.4	1034.6	948.5	904.0
17.5°	3317.5	2991.0	2400.2	1894.0	1545.2	1285.5	1058.3	862.4	739.2	650.1	630.9
20°	3644.1	3267.1	2492.2	1825.8	1398.3	1022.7	773.4	604.1	501.7	486.9	482.4
22.5°	4122.1	3718.3	2689.7	1779.7	1218.7	797.1	529.9	439.4	411.2	408.2	409.7
25°	4790.0	4283.9	2904.9	1741.2	1083.6	614.5	433.4	372.6	363.7	359.2	366.6
27.5°	5079.5	4625.3	3019.2	1658.0	960.4	553.7	427.5	369.6	344.4	336.9	341.4
30°	5437.2	4852.4	3198.8	1515.5	779.3	455.7	399.3	402.3	390.4	353.3	341.4
32.5°	5912.2	5135.9	3289.3	1414.6	696.2	377.0	292.4	268.7	299.8	305.8	316.2
35°	6216.5	5423.9	3335.4	1355.2	653.1	322.1	247.9	225.6	218.2	219.7	225.6
37.5°	6782.0	5812.8	3393.2	1292.9	620.5	280.5	224.1	203.4	193.0	193.0	198.9
40°	7120.5	6121.5	3471.9	1258.7	587.8	255.3	203.4	185.5	176.6	176.6	179.6
42.5°	7205.1	6274.4	3445.2	1246.9	550.7	249.4	185.5	172.2	161.8	160.3	158.8
45°	7356.5	6507.4	3449.7	1233.5	512.1	227.1	175.2	160.3	145.5	144.0	142.5
47.5°	7522.7	6675.2	3458.6	1181.6	475.0	190.0	182.6	148.4	130.6	127.7	127.7
50°	7380.2	6808.8	3535.7	1129.6	427.5	154.4	179.6	139.5	115.8	111.3	112.8
52.5°	7398.0	6966.1	3699.0	1056.9	368.1	123.2	145.5	132.1	105.4	98.0	99.5
55°	7113.1	6799.9	3721.3	979.7	288.0	95.0	111.3	115.8	89.1	86.1	86.1
57.5°	6123.0	5757.8	3283.4	794.1	190.0	78.7	80.2	100.9	77.2	74.2	75.7
60°	5239.8	4622.3	2642.2	524.0	118.7	62.3	57.9	102.4	68.3	66.8	71.2
62.5°	4776.7	3798.5	2003.9	325.1	81.6	47.5	40.1	83.1	59.4	59.4	65.3
65°	3451.1	2551.6	1165.2	170.7	57.9	37.1	29.7	47.5	49.0	50.5	53.4
67.5°	2137.5	1288.4	491.3	83.1	38.6	25.2	19.3	29.7	32.7	32.7	35.6
70°	1055.4	513.6	163.3	47.5	29.7	20.8	13.4	16.3	16.3	14.8	16.3
72.5°	326.6	154.4	41.6	29.7	20.8	13.4	7.4	5.9	3.0	0.0	1.5
75°	37.1	29.7	26.7	20.8	13.4	5.9	1.5	0.0	0.0	0.0	0.0
77.5°	22.3	25.2	25.2	20.8	13.4	4.5	0.0	0.0	0.0	0.0	0.0
80°	17.8	19.3	20.8	19.3	11.9	5.9	0.0	0.0	0.0	0.0	0.0
82.5°	22.3	25.2	28.2	25.2	16.3	7.4	3.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	4.5	1.5	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°	3826.7	3826.7	3826.7	3826.7	3826.7	3826.7	3826.7	3826.7	3826.7	3826.7	3826.7
2.5°	3253.7	3221.1	3267.1	3198.8	3197.3	3198.8	3179.5	3161.7	3189.9	3265.6	3273.0
5°	2483.3	2553.1	2575.4	2648.1	2608.0	2548.6	2560.5	2520.4	2618.4	2661.5	2627.3
7.5°	1808.0	1803.5	1953.4	1962.3	1981.6	1983.1	1980.1	1901.5	1821.3	1839.1	1892.6
10°	1402.7	1327.0	1399.8	1392.3	1439.8	1426.5	1445.8	1361.2	1389.4	1389.4	1423.5
12.5°	1143.0	1062.8	1049.4	1030.1	1049.4	1056.9	1064.3	1048.0	1095.5	1117.7	1141.5
15°	872.8	828.3	816.4	779.3	785.2	806.0	823.8	831.2	816.4	850.5	853.5
17.5°	633.8	632.3	639.8	638.3	632.3	627.9	626.4	607.1	601.2	604.1	616.0
20°	480.9	492.8	518.0	543.3	556.6	540.3	518.0	485.4	472.0	475.0	476.5
22.5°	411.2	429.0	463.1	491.3	504.7	475.0	434.9	406.7	400.8	399.3	397.8
25°	372.6	393.4	418.6	427.5	426.0	408.2	378.5	366.6	363.7	360.7	347.3
27.5°	351.8	359.2	363.7	374.1	378.5	366.6	359.2	341.4	338.4	338.4	329.5
30°	339.9	335.5	341.4	334.0	339.9	331.0	332.5	332.5	325.1	328.0	328.0
32.5°	316.2	317.7	317.7	302.8	307.3	296.9	307.3	316.2	317.7	319.1	331.0
35°	231.6	258.3	271.6	271.6	276.1	268.7	267.2	256.8	243.4	230.1	224.1
37.5°	203.4	213.7	231.6	242.0	249.4	243.4	230.1	213.7	206.3	200.4	194.5
40°	181.1	190.0	201.9	213.7	228.6	221.2	200.4	193.0	184.1	184.1	178.1
42.5°	163.3	167.7	175.2	193.0	209.3	194.5	179.6	173.7	169.2	167.7	166.2
45°	147.0	148.4	155.9	170.7	190.0	175.2	160.3	152.9	154.4	155.9	154.4
47.5°	132.1	135.1	139.5	157.3	169.2	161.8	145.5	141.0	141.0	141.0	142.5
50°	114.3	121.7	130.6	145.5	154.4	149.9	136.6	130.6	127.7	127.7	129.1
52.5°	102.4	108.4	120.2	138.0	149.9	142.5	129.1	120.2	114.3	112.8	115.8
55°	89.1	99.5	118.7	132.1	148.4	141.0	126.2	115.8	105.4	103.9	103.9
57.5°	80.2	96.5	114.3	130.6	144.0	138.0	126.2	112.8	99.5	98.0	98.0
60°	75.7	93.5	111.3	126.2	144.0	135.1	124.7	109.8	95.0	95.0	93.5
62.5°	71.2	87.6	105.4	120.2	138.0	130.6	120.2	105.4	90.5	90.5	87.6
65°	59.4	75.7	87.6	100.9	120.2	112.8	102.4	92.0	80.2	77.2	78.7
67.5°	41.6	52.0	63.8	77.2	89.1	86.1	81.6	74.2	63.8	62.3	60.9
70°	20.8	28.2	38.6	52.0	62.3	59.4	56.4	50.5	44.5	43.0	43.0
72.5°	3.0	8.9	16.3	23.7	32.7	34.1	32.7	31.2	29.7	28.2	29.7
75°	0.0	0.0	0.0	5.9	13.4	16.3	19.3	22.3	22.3	19.3	23.7
77.5°	0.0	0.0	0.0	0.0	1.5	7.4	14.8	19.3	23.7	20.8	28.2
80°	0.0	0.0	0.0	0.0	1.5	8.9	14.8	20.8	23.7	20.8	29.7
82.5°	0.0	0.0	0.0	0.0	1.5	10.4	14.8	19.3	22.3	20.8	26.7
85°	0.0	0.0	0.0	0.0	4.5	8.9	5.9	3.0	1.5	1.5	4.5
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°	3826.7	3826.7	3826.7	3826.7	3826.7	3826.7	3826.7	3826.7	3826.7	3826.7
2.5°	3314.6	3420.0	3532.8	3575.8	3709.4	3810.4	3878.6	4025.6	4047.8	4049.3
5°	2662.9	2716.4	2909.3	2999.9	3198.8	3353.2	3517.9	3755.4	3914.3	3926.1
7.5°	1892.6	2041.0	2122.6	2358.6	2603.6	2845.5	3090.4	3366.5	3550.6	3555.0
10°	1523.0	1619.4	1764.9	1941.5	2147.9	2394.3	2720.8	3041.5	3228.5	3274.5
12.5°	1226.1	1395.3	1561.5	1744.1	1901.5	2087.0	2438.8	2866.3	3020.7	3112.7
15°	944.1	1098.4	1294.4	1508.1	1686.2	1934.1	2334.9	2823.3	3083.0	3114.2
17.5°	696.2	834.2	1015.3	1217.2	1484.4	1836.2	2352.7	3041.5	3286.4	3338.3
20°	500.2	580.4	722.9	957.4	1297.3	1721.9	2370.5	3262.6	3635.2	3724.3
22.5°	396.3	429.0	522.5	730.3	1088.0	1601.6	2496.7	3685.7	4114.6	4243.8
25°	344.4	362.2	406.7	575.9	955.9	1589.7	2698.6	4193.3	4752.9	4846.4
27.5°	332.5	335.5	374.1	528.4	884.7	1511.1	2775.8	4554.0	5150.7	5245.7
30°	350.3	397.8	400.8	446.8	752.6	1355.2	2815.8	4902.8	5487.7	5557.4
32.5°	302.8	288.0	298.4	345.9	662.0	1264.7	2891.5	5207.1	5872.1	5921.1
35°	210.8	221.2	244.9	299.8	578.9	1169.7	2910.8	5542.6	6237.3	6287.7
37.5°	194.5	200.4	219.7	255.3	509.1	1116.2	2884.1	5787.5	6615.8	6685.6
40°	181.1	188.5	198.9	231.6	457.2	1056.9	2847.0	6008.7	6847.4	7019.5
42.5°	170.7	176.6	185.5	221.2	412.7	997.5	2795.0	6320.4	7055.2	7205.1
45°	158.8	167.7	178.1	215.2	387.4	957.4	2756.5	6301.1	7175.4	7255.6
47.5°	147.0	161.8	173.7	200.4	380.0	938.1	2772.8	6228.4	7077.4	7022.5
50°	135.1	154.4	175.2	166.2	362.2	899.5	2792.1	6327.8	6844.4	6834.0
52.5°	124.7	147.0	163.3	136.6	322.1	862.4	2979.1	6458.4	7009.1	6871.1
55°	109.8	132.1	130.6	109.8	261.2	834.2	3126.1	6461.4	6897.8	6949.8
57.5°	99.5	117.3	102.4	92.0	193.0	697.6	2887.1	5417.9	5904.8	5996.8
60°	92.0	114.3	77.2	72.7	126.2	503.2	2520.4	4196.3	4693.5	4867.2
62.5°	84.6	108.4	60.9	59.4	87.6	357.7	2072.2	3512.0	4044.9	4280.9
65°	74.2	77.2	49.0	46.0	62.3	193.0	1261.7	2418.0	3023.6	3111.2
67.5°	60.9	59.4	40.1	37.1	41.6	93.5	556.6	1211.2	1753.0	1900.0
70°	49.0	49.0	34.1	29.7	29.7	43.0	145.5	482.4	792.6	877.3
72.5°	35.6	37.1	26.7	23.7	22.3	20.8	23.7	96.5	207.8	265.7
75°	31.2	32.7	26.7	20.8	16.3	13.4	10.4	8.9	11.9	19.3
77.5°	34.1	34.1	28.2	19.3	14.8	10.4	5.9	3.0	3.0	1.5
80°	43.0	44.5	37.1	25.2	17.8	11.9	7.4	3.0	1.5	1.5
82.5°	46.0	50.5	41.6	31.2	22.3	13.4	7.4	1.5	0.0	0.0
85°	11.9	19.3	32.7	28.2	22.3	13.4	7.4	1.5	0.0	0.0
87.5°	0.0	1.5	4.5	4.5	5.9	5.9	4.5	1.5	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

(END OF REPORT)