

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: P452349

Luminaire Tested: **GALN-SA3B-740-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452349  
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-SA3B-740-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 800mA 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: 14642 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

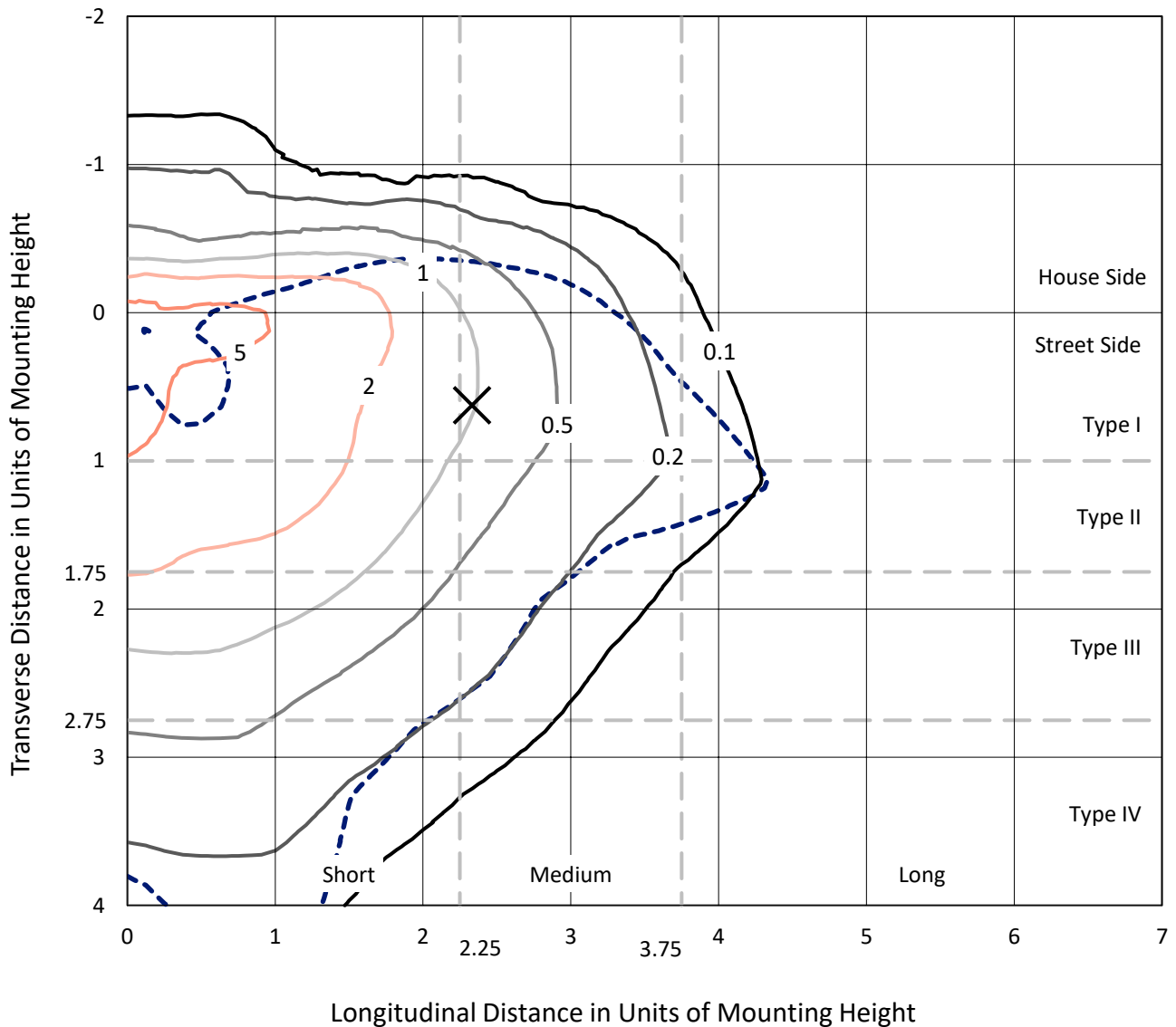
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

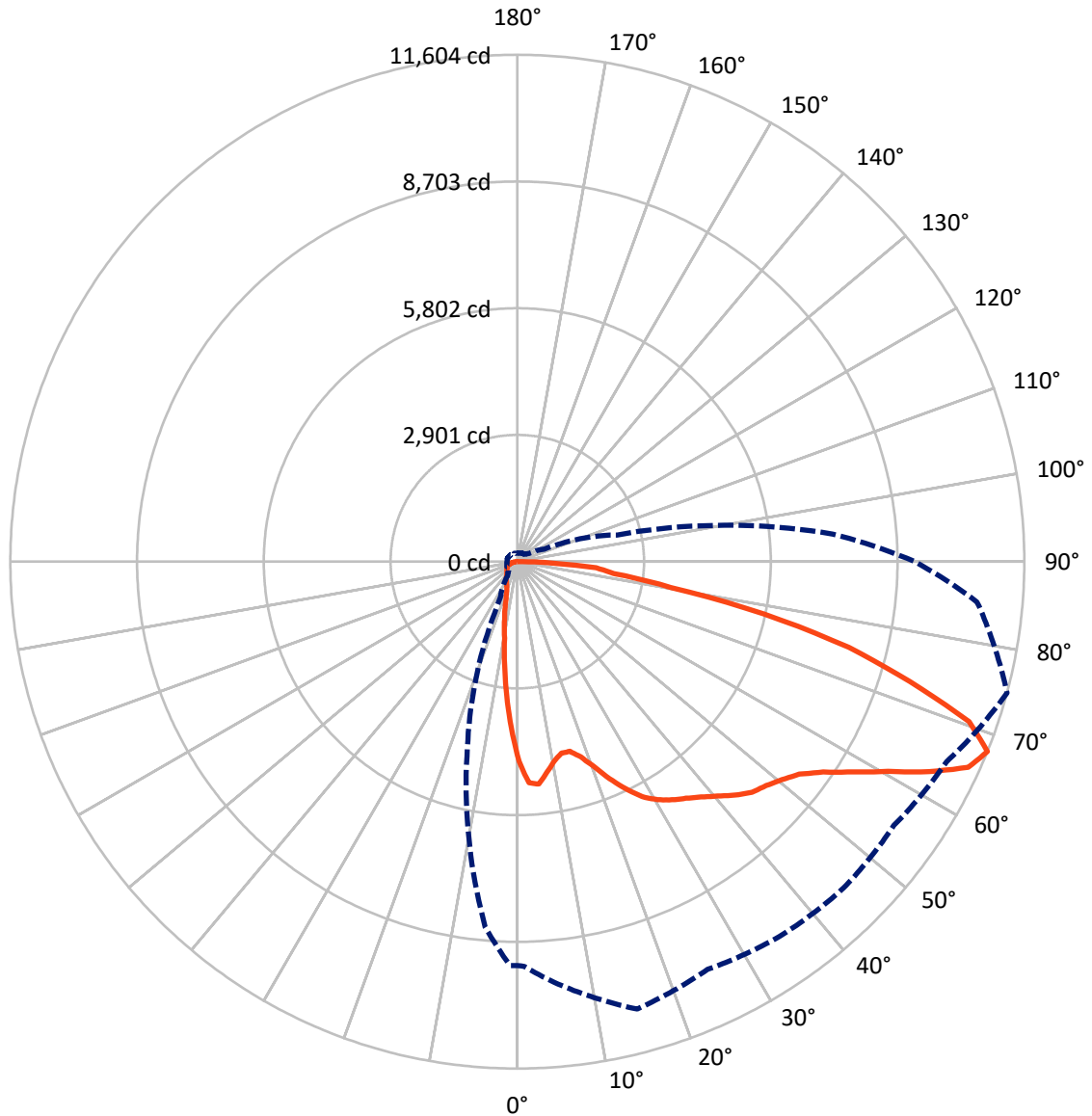
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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
<b>House Side</b>	Lumens	2474.8	0.0	2474.8
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	12167.2	0.0	12167.2
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	14642.0	0.0	14642.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	347.0	2.4
10°-20°	723.6	4.9
20°-30°	1041.3	7.1
30°-40°	1499.7	10.2
40°-50°	2106.7	14.4
50°-60°	2938.1	20.1
60°-70°	3493.2	23.9
70°-80°	2057.3	14.1
80°-90°	435.0	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°	14642.0	100.0
0°-180°	14642.0	100.0

**Coefficient of Utilization**



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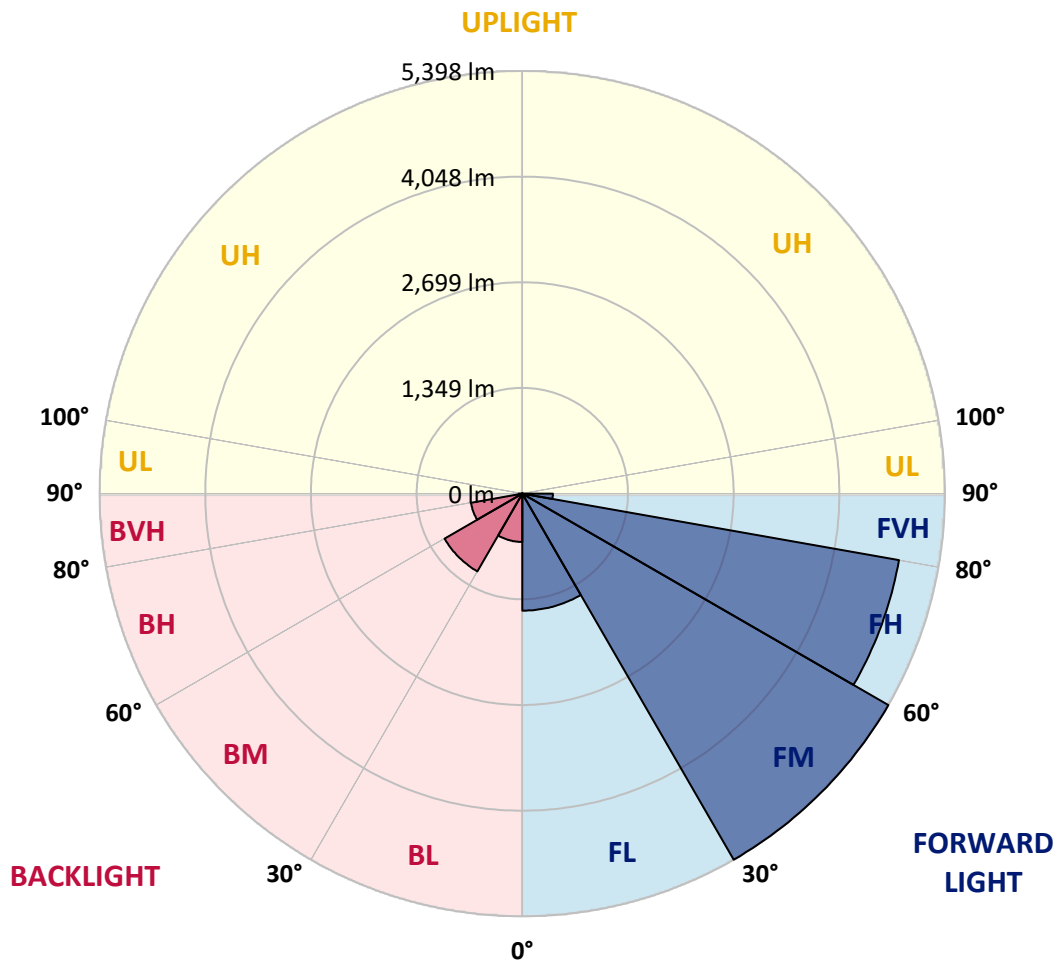
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1494.6	10.2			
FM	(30°-60°)	5398.0	36.9			
FH	(60°-80°)	4884.6	33.4			G2/5000
FVH	(80°-90°)	390.0	2.7			G3/500
BL	(0°-30°)	617.3	4.2	B2/1000		
BM	(30°-60°)	1146.6	7.8	B2/2500		
BH	(60°-80°)	665.9	4.5	B2/1000		G2/1000
BVH	(80°-90°)	45.0	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-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4574.5	4574.5	4574.5	4574.5	4574.5	4574.5	4574.5	4574.5	4574.5	4574.5	4574.5
2.5°	4932.2	4938.8	4981.1	5104.1	5188.6	5219.6	5241.2	5200.8	5161.3	5065.6	4921.0
5°	4917.2	4955.7	5065.6	5341.6	5559.5	5653.3	5681.5	5560.4	5360.4	5114.4	4818.6
7.5°	4629.9	4681.5	4850.6	5313.5	5697.5	5917.2	5888.1	5669.3	5308.8	4870.3	4457.1
10°	4289.1	4346.3	4550.1	5109.7	5604.5	5906.9	5906.9	5640.2	5161.3	4640.2	4164.2
12.5°	4018.7	4078.7	4311.6	4900.3	5411.1	5697.5	5745.4	5516.3	5055.2	4494.7	3971.7
15°	3929.5	3987.7	4238.4	4773.6	5206.4	5381.1	5397.0	5321.9	5003.6	4505.0	3963.3
17.5°	4040.3	4115.4	4368.9	4811.1	5018.6	5029.0	5041.2	5100.3	5009.2	4693.8	4134.1
20°	4360.4	4441.2	4706.0	4932.2	4854.3	4747.3	4753.8	4906.0	5075.9	5005.5	4542.6
22.5°	4822.4	4892.8	5164.2	5145.4	4784.8	4564.2	4518.2	4730.4	5174.5	5394.2	4977.3
25°	5321.0	5403.6	5715.3	5461.8	4804.5	4455.3	4426.2	4627.1	5276.8	5757.6	5479.6
27.5°	5891.8	5972.6	6218.6	5781.0	4907.8	4446.8	4412.1	4617.7	5368.8	6093.7	5959.4
30°	6316.2	6390.4	6557.5	6049.6	5034.6	4503.1	4460.0	4691.9	5447.7	6323.7	6427.0
32.5°	6649.6	6726.6	6817.6	6216.7	5201.7	4605.5	4525.7	4827.1	5551.0	6499.3	6773.5
35°	6997.0	7088.0	7081.5	6365.1	5357.6	4723.8	4645.9	5022.4	5713.4	6652.4	7212.9
37.5°	7437.3	7473.9	7427.0	6498.4	5544.4	4936.9	4893.7	5312.5	5944.4	6837.3	7726.5
40°	7884.3	7957.5	7716.2	6659.9	5771.7	5337.9	5333.2	5741.6	6218.6	7054.2	8224.2
42.5°	8267.4	8329.3	7986.6	6800.7	6046.8	5827.1	5862.7	6317.2	6578.2	7305.9	8624.1
45°	8555.6	8611.0	8236.4	6936.9	6409.2	6392.3	6602.6	6934.1	7031.7	7532.2	8858.9
47.5°	8800.7	8854.2	8410.1	7143.4	6857.1	7067.4	7433.6	7577.2	7419.5	7661.7	9121.8
50°	9007.2	9023.2	8529.3	7389.4	7412.9	7894.6	8249.5	8342.5	7802.6	7847.6	9349.9
52.5°	9222.3	9201.6	8734.9	7699.3	8013.8	8679.5	8937.8	9034.5	8169.7	8076.7	9682.3
55°	9703.9	9723.6	9196.0	8089.9	8621.3	9450.4	9790.3	9697.4	8576.3	8498.3	10104.9
57.5°	10286.1	10269.2	9844.8	8701.1	9240.1	10167.8	10421.3	10272.0	9119.0	9077.7	10533.0
60°	10512.4	10534.9	10387.5	9358.4	9850.4	10795.9	11055.1	10823.1	9769.7	9750.9	10856.0
62.5°	10285.1	10411.9	10511.4	9943.4	10370.6	11257.9	11515.1	11250.4	10448.5	10584.7	11082.3
65°	9832.6	9859.8	10198.7	10439.1	10621.3	11333.9	11468.2	11327.4	11015.6	11344.3	11072.0
67.5°	9244.8	9268.3	9665.4	10601.6	10298.3	10470.1	10564.0	10522.7	10840.0	11604.3	10562.1
70°	8685.2	8666.4	9086.1	10187.5	8965.0	8704.0	8781.9	8652.3	9353.7	10968.7	9562.1
72.5°	7596.0	7663.6	8114.3	9036.3	7098.4	6674.0	6843.9	6508.7	7194.1	9394.1	7761.3
75°	5950.1	5966.0	6718.1	7583.8	5354.8	4685.3	4915.3	4775.4	5510.6	7836.4	5359.5
77.5°	4120.1	4084.4	4892.8	5792.3	3818.7	3429.9	3433.7	3367.0	3847.8	5769.8	3641.2
80°	2616.8	2562.4	3062.8	3578.3	2624.3	2807.4	2715.4	2712.6	2505.1	3559.5	2201.8
82.5°	1414.0	1474.1	1935.2	2243.1	1882.6	2169.9	1988.7	1930.5	1719.2	2228.1	1408.4
85°	644.1	700.4	1031.9	1525.8	1430.0	1446.0	966.2	1139.9	1422.5	1809.3	752.1
87.5°	62.9	80.7	213.1	720.2	488.2	385.0	143.7	277.0	357.7	643.2	60.1
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°	4574.5	4574.5	4574.5	4574.5	4574.5	4574.5	4574.5	4574.5	4574.5	4574.5	4574.5
2.5°	4861.8	4813.0	4646.8	4509.7	4364.2	4253.4	4108.8	4012.1	3945.4	3845.0	3832.7
5°	4638.4	4519.1	4229.9	3935.1	3680.6	3489.1	3294.7	3116.3	3011.2	2978.3	2936.1
7.5°	4261.8	4060.9	3689.1	3351.1	3059.1	2773.6	2553.9	2398.0	2293.8	2232.8	2159.6
10°	3952.0	3719.1	3266.6	2852.5	2612.1	2434.7	2241.2	2074.1	1945.5	1835.6	1775.5
12.5°	3743.5	3480.6	2971.7	2635.6	2449.7	2261.0	2034.7	1846.9	1657.2	1532.3	1478.8
15°	3680.6	3402.7	2880.7	2527.6	2261.0	2014.0	1760.5	1515.4	1327.7	1209.4	1169.9
17.5°	3834.6	3498.5	2879.7	2384.0	2039.4	1744.5	1419.7	1189.6	997.2	908.9	880.7
20°	4121.9	3682.5	2888.2	2242.2	1799.0	1384.0	1032.8	844.1	752.1	714.5	700.4
22.5°	4522.9	3963.3	2913.5	2102.3	1536.1	1062.9	773.7	677.9	645.1	638.5	635.7
25°	5016.7	4310.7	2999.0	1976.5	1314.5	811.2	646.9	603.7	585.0	578.4	577.4
27.5°	5471.2	4759.5	3102.3	1868.5	1100.4	699.5	585.0	548.3	529.6	528.6	530.5
30°	5881.5	5135.1	3188.6	1747.4	938.0	621.6	544.6	508.0	490.1	489.2	494.8
32.5°	6236.4	5444.0	3252.5	1628.1	847.9	573.7	508.0	468.5	453.5	450.7	453.5
35°	6615.8	5751.9	3223.4	1535.2	796.2	534.3	480.7	442.2	424.4	415.9	415.9
37.5°	7048.6	6069.3	3173.6	1458.2	772.7	501.4	457.3	419.7	401.9	393.4	392.5
40°	7520.9	6386.7	3105.1	1389.6	749.3	481.7	441.3	401.9	380.3	371.8	369.9
42.5°	7937.8	6658.0	3048.7	1344.6	710.8	485.4	427.2	388.7	361.5	350.2	349.3
45°	8300.2	6931.2	3038.4	1318.3	678.9	479.8	423.5	378.4	346.5	334.3	332.4
47.5°	8583.8	7215.7	3097.6	1303.2	644.1	449.8	447.9	371.8	333.3	320.2	318.3
50°	8929.3	7619.5	3232.8	1272.3	612.2	421.6	473.2	370.9	323.0	306.1	301.4
52.5°	9389.4	8145.3	3415.9	1216.9	566.2	395.3	451.6	370.9	310.8	293.9	288.3
55°	10085.1	8815.7	3595.2	1138.9	501.4	360.6	407.5	359.6	292.9	277.9	274.2
57.5°	10546.2	9305.8	3709.7	1031.0	420.6	335.2	351.2	341.8	275.1	259.1	259.1
60°	10569.6	9437.3	3655.3	894.8	369.9	311.7	305.2	344.6	259.1	242.2	240.4
62.5°	10299.2	9115.2	3371.7	772.7	342.7	286.4	276.0	302.3	243.2	226.3	223.5
65°	9876.7	8293.6	2879.7	714.5	327.7	263.8	248.8	247.9	226.3	210.3	206.6
67.5°	9100.2	7247.7	2366.1	680.7	320.2	238.5	224.4	219.7	206.6	193.4	191.5
70°	7955.6	6070.2	1897.6	666.6	316.4	212.2	200.9	195.3	184.0	173.7	172.8
72.5°	6189.5	4923.8	1566.1	657.3	314.5	187.8	175.6	168.1	161.5	152.1	152.1
75°	4445.9	3622.4	1195.3	592.5	291.1	161.5	148.4	143.7	134.3	126.8	128.6
77.5°	2802.7	2439.4	786.8	435.7	225.3	129.6	118.3	115.5	108.0	97.6	104.2
80°	1892.9	1715.4	459.1	274.2	141.8	94.8	91.1	90.1	81.7	70.4	71.4
82.5°	1288.2	1263.8	238.5	155.9	81.7	55.4	53.5	55.4	46.0	37.6	37.6
85°	503.3	687.3	112.7	61.0	26.3	8.5	12.2	13.1	7.5	3.8	4.7
87.5°	9.4	70.4	2.8	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°	4574.5	4574.5	4574.5	4574.5	4574.5	4574.5	4574.5	4574.5	4574.5	4574.5	4574.5
2.5°	3814.0	3805.5	3819.6	3759.5	3771.7	3794.2	3805.5	3812.1	3905.0	3883.4	3942.6
5°	2975.5	2967.0	3021.5	3029.0	3057.2	3051.5	3078.8	3085.4	3119.2	3131.4	3214.0
7.5°	2164.3	2200.9	2262.8	2294.8	2342.7	2357.7	2343.6	2378.3	2307.9	2358.6	2373.6
10°	1738.9	1694.8	1668.5	1741.7	1751.1	1820.6	1792.4	1769.9	1811.2	1813.1	1852.5
12.5°	1447.8	1353.0	1290.1	1310.8	1333.3	1363.3	1368.0	1413.1	1443.1	1471.3	1494.8
15°	1135.2	1102.3	1045.0	1016.9	1048.8	1061.0	1090.1	1127.7	1159.6	1168.0	1200.0
17.5°	871.3	877.0	867.6	850.7	870.4	879.8	881.7	882.6	891.1	885.4	932.4
20°	701.4	721.1	744.6	748.3	754.9	759.6	751.2	719.2	720.2	739.9	754.9
22.5°	634.7	638.5	664.8	673.2	693.9	685.4	661.0	646.0	644.1	648.8	656.3
25°	582.1	587.8	606.6	619.7	635.7	620.6	602.8	588.7	586.8	591.5	599.0
27.5°	535.2	543.6	560.5	573.7	588.7	574.6	557.7	545.5	544.6	543.6	548.3
30°	497.6	507.0	519.2	534.3	544.6	532.4	516.4	509.8	508.9	507.0	508.9
32.5°	460.1	475.1	487.3	494.8	505.1	495.8	483.6	479.8	473.2	467.6	464.8
35°	417.8	433.8	452.6	462.0	472.3	462.9	454.4	438.5	427.2	426.3	428.2
37.5°	393.4	400.0	415.0	431.0	441.3	436.6	420.6	404.7	401.9	401.9	403.7
40°	371.8	374.6	381.2	401.9	420.6	406.6	386.8	382.1	382.1	381.2	382.1
42.5°	350.2	353.0	353.0	369.0	399.0	376.5	361.5	361.5	361.5	362.4	365.2
45°	330.5	331.4	330.5	341.8	369.9	351.2	340.8	343.7	345.5	347.4	349.3
47.5°	313.6	314.5	313.6	323.0	337.1	329.6	323.9	327.7	331.4	334.3	336.1
50°	298.6	297.6	299.5	305.2	311.7	313.6	309.8	315.5	317.4	321.1	325.8
52.5°	285.4	284.5	286.4	289.2	298.6	298.6	298.6	303.3	307.0	310.8	317.4
55°	270.4	271.4	274.2	277.9	290.1	288.3	289.2	292.9	296.7	302.3	306.1
57.5°	256.3	258.2	262.0	267.6	279.8	278.9	279.8	281.7	286.4	289.2	292.9
60°	240.4	244.1	248.8	252.6	264.8	263.8	268.5	272.3	275.1	275.1	277.0
62.5°	224.4	230.0	234.7	237.6	250.7	251.6	258.2	261.0	262.9	261.0	263.8
65°	208.4	216.9	218.8	222.5	235.7	236.6	244.1	250.7	248.8	246.9	251.6
67.5°	192.5	202.8	201.9	206.6	219.7	221.6	228.2	239.4	235.7	233.8	237.6
70°	174.6	182.2	183.1	185.9	203.7	200.9	211.3	221.6	218.8	219.7	219.7
72.5°	154.9	161.5	161.5	167.1	185.9	181.2	189.7	200.9	200.9	200.0	200.0
75°	131.5	135.2	139.0	147.4	167.1	161.5	167.1	177.5	179.3	177.5	177.5
77.5°	106.1	111.7	113.6	124.9	139.0	138.0	143.7	148.4	152.1	150.2	150.2
80°	75.1	80.7	88.3	100.5	108.9	111.7	114.6	118.3	120.2	120.2	122.1
82.5°	42.3	50.7	57.3	69.5	73.2	87.3	86.4	89.2	86.4	76.1	84.5
85°	9.4	17.8	25.4	31.9	36.6	50.7	53.5	60.1	49.8	46.0	46.0
87.5°	0.0	0.0	0.0	0.0	0.0	7.5	15.0	20.7	17.8	15.0	15.0
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°	4574.5	4574.5	4574.5	4574.5	4574.5	4574.5	4574.5	4574.5	4574.5	4574.5
2.5°	3992.4	4074.1	4172.6	4342.6	4461.8	4590.5	4720.0	4858.1	4894.7	4932.2
5°	3236.5	3397.1	3484.4	3712.6	3952.0	4256.2	4505.0	4777.3	4890.9	4917.2
7.5°	2451.6	2560.5	2789.6	3020.6	3317.3	3636.5	4017.7	4442.1	4574.5	4629.9
10°	1943.6	2092.0	2292.9	2540.8	2800.9	3144.5	3574.5	4070.3	4258.1	4289.1
12.5°	1654.4	1819.7	2038.4	2300.4	2546.4	2805.5	3239.3	3751.1	3952.0	4018.7
15°	1323.0	1523.0	1775.5	2051.6	2319.2	2602.7	3042.2	3619.6	3851.5	3929.5
17.5°	1039.4	1200.9	1474.1	1773.7	2091.0	2449.7	3000.8	3682.5	3968.0	4040.3
20°	795.3	910.8	1140.8	1457.2	1829.1	2298.5	3011.2	3920.1	4261.8	4360.4
22.5°	687.3	746.5	886.4	1187.8	1603.7	2167.1	3053.4	4245.9	4658.1	4822.4
25°	622.5	653.5	732.4	929.5	1388.7	2039.4	3150.1	4684.4	5212.0	5321.0
27.5°	567.1	589.7	638.5	780.3	1193.4	1921.1	3262.8	5170.7	5729.4	5891.8
30°	514.5	544.6	590.6	692.9	1068.5	1813.1	3404.6	5565.1	6165.1	6316.2
32.5°	474.2	504.2	546.5	631.9	962.4	1699.5	3489.1	5911.6	6520.9	6649.6
35°	441.3	466.7	510.8	583.1	881.7	1613.1	3472.2	6186.7	6865.5	6997.0
37.5°	417.8	439.4	483.6	537.1	820.6	1523.0	3463.7	6550.0	7285.2	7437.3
40°	396.2	418.8	459.1	507.0	759.6	1416.9	3468.4	6910.6	7732.2	7884.3
42.5°	379.3	404.7	437.5	498.6	696.7	1331.4	3468.4	7224.2	8120.9	8267.4
45°	365.2	392.5	424.4	497.6	646.9	1266.6	3445.0	7493.7	8430.7	8555.6
47.5°	353.0	383.1	429.1	480.7	634.7	1219.7	3424.3	7709.6	8683.3	8800.7
50°	344.6	380.3	456.3	461.0	638.5	1205.6	3523.8	7981.9	8905.8	9007.2
52.5°	338.0	381.2	455.4	431.9	631.9	1215.0	3731.3	8407.3	9214.7	9222.3
55°	324.9	380.3	431.9	399.0	604.7	1230.9	3998.0	9025.1	9698.3	9703.9
57.5°	311.7	369.9	400.9	370.9	549.3	1230.9	4319.1	9610.0	10281.4	10286.1
60°	298.6	385.0	352.1	346.5	477.0	1208.4	4658.1	9867.3	10464.5	10512.4
62.5°	285.4	387.8	314.5	324.9	424.4	1154.0	4910.6	9582.8	10216.6	10285.1
65°	270.4	312.7	290.1	302.3	397.2	1062.9	4830.8	9061.7	9750.9	9832.6
67.5°	252.6	264.8	263.8	278.9	387.8	928.6	4410.2	8402.6	9249.5	9244.8
70°	231.0	237.6	240.4	256.3	369.9	824.4	3675.0	7547.2	8580.0	8685.2
72.5°	208.4	214.1	216.9	231.0	352.1	765.2	2852.5	6368.8	7431.7	7596.0
75°	184.0	187.8	191.5	203.7	333.3	677.9	2031.9	4861.8	5691.8	5950.1
77.5°	158.7	158.7	163.4	175.6	280.7	559.6	1363.3	3410.2	3856.2	4120.1
80°	128.6	129.6	127.7	140.8	206.6	383.1	774.6	2277.9	2566.1	2616.8
82.5°	98.6	95.8	96.7	103.3	154.0	261.0	413.1	1415.0	1442.2	1414.0
85°	62.0	62.0	60.1	67.6	98.6	136.1	225.3	866.6	677.0	644.1
87.5°	25.4	20.7	23.5	27.2	46.9	55.4	88.3	178.4	68.5	62.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)