

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: P452320

Luminaire Tested: **GALN-SA3B-730-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452320  
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-730-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 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: 13335 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

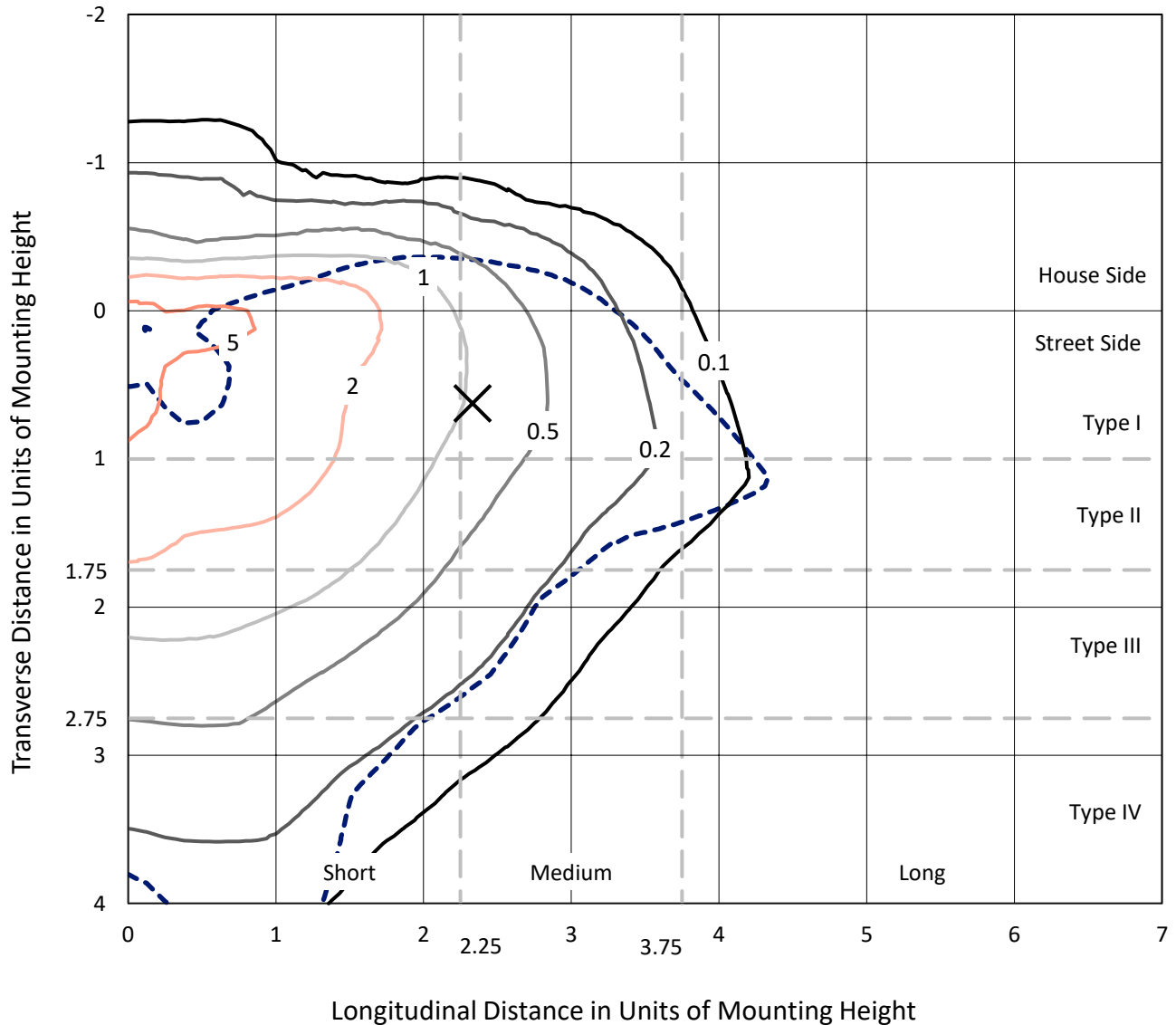
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

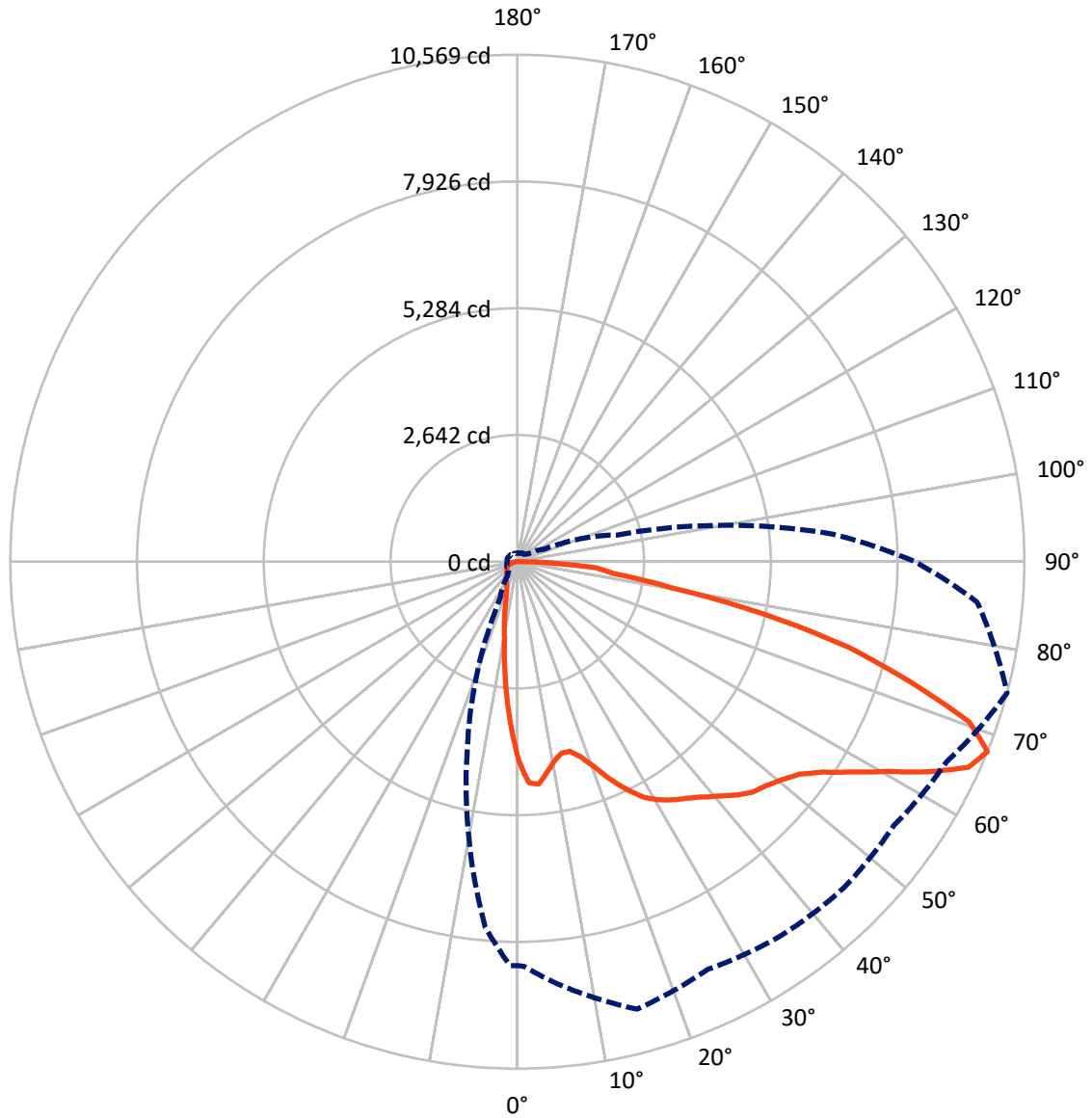
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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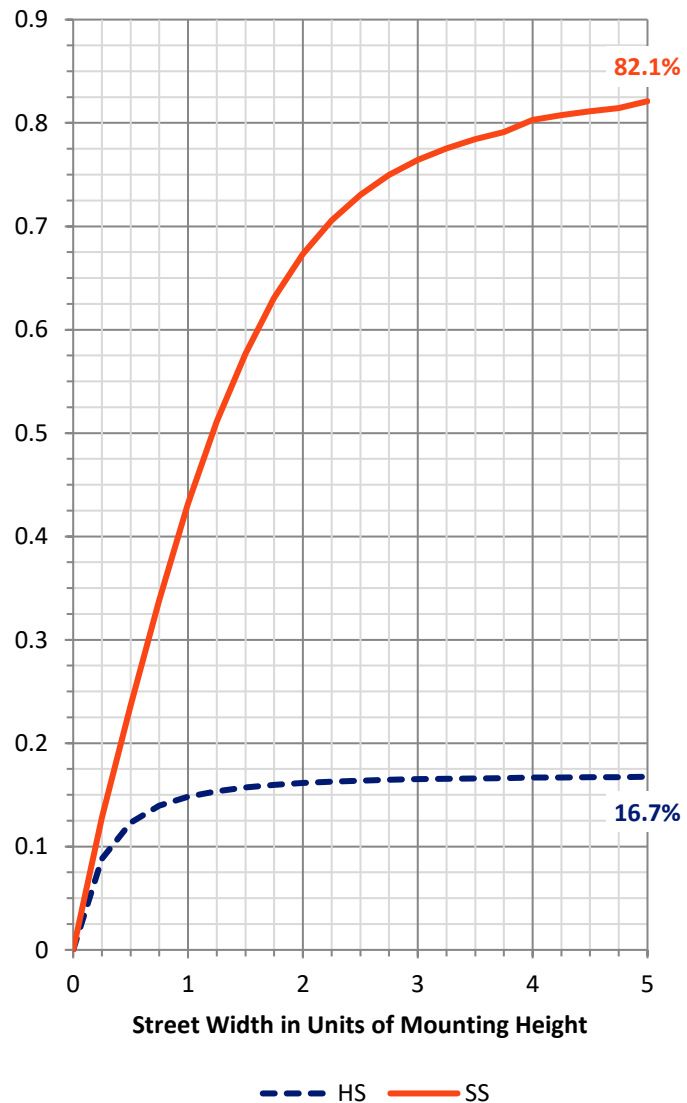
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2253.9	0.0	2253.9
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	11081.1	0.0	11081.1
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	13335.0	0.0	13335.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.0	2.4
10°-20°	659.0	4.9
20°-30°	948.3	7.1
30°-40°	1365.9	10.2
40°-50°	1918.7	14.4
50°-60°	2675.8	20.1
60°-70°	3181.4	23.9
70°-80°	1873.7	14.1
80°-90°	396.2	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°	13335.0	100.0
0°-180°	13335.0	100.0



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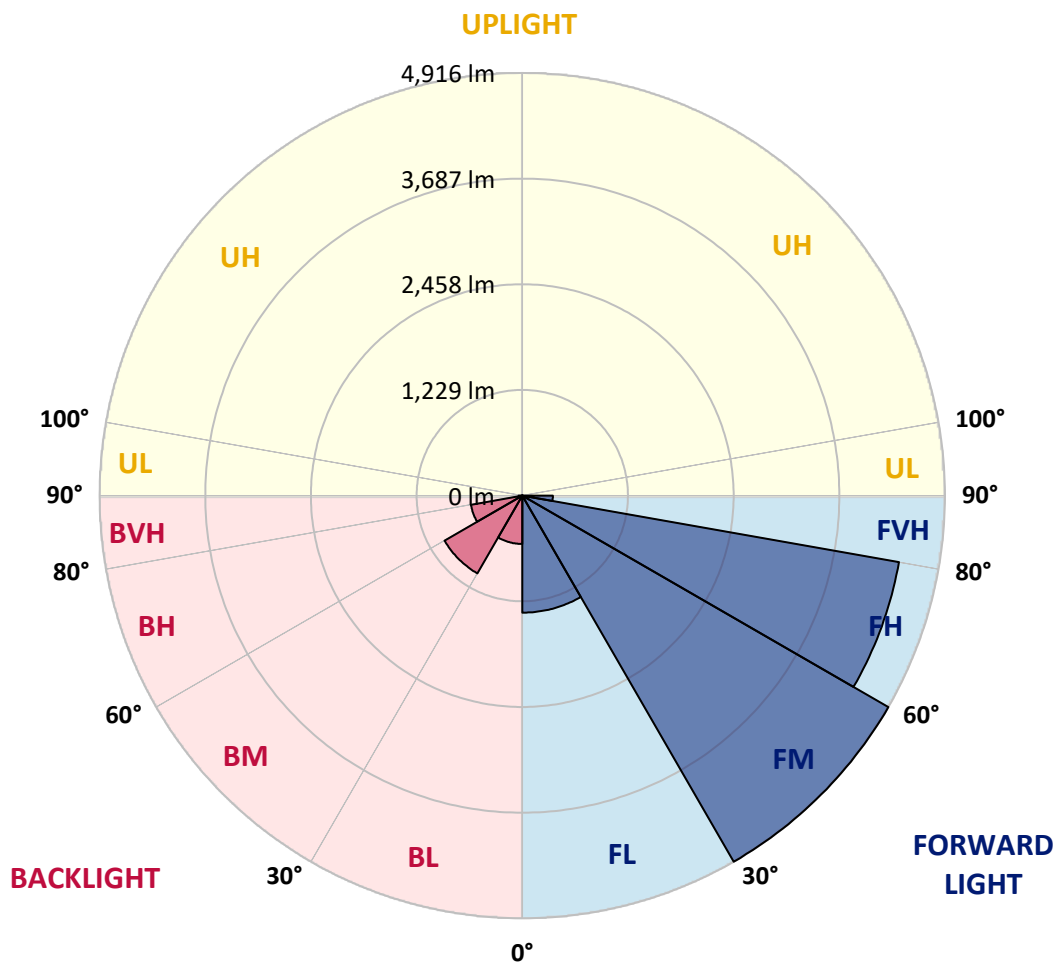
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1361.1	10.2			
FM	(30°-60°)	4916.1	36.9			
FH	(60°-80°)	4448.6	33.4			G2/5000
FVH	(80°-90°)	355.2	2.7			G3/500
BL	(0°-30°)	562.2	4.2	B2/1000		
BM	(30°-60°)	1044.2	7.8	B2/2500		
BH	(60°-80°)	606.5	4.5	B2/1000		G2/1000
BVH	(80°-90°)	41.0	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°	4166.2	4166.2	4166.2	4166.2	4166.2	4166.2	4166.2	4166.2	4166.2	4166.2	4166.2
2.5°	4492.0	4498.0	4536.4	4648.5	4725.4	4753.6	4773.3	4736.5	4700.6	4613.4	4481.7
5°	4478.3	4513.4	4613.4	4864.8	5063.2	5148.7	5174.4	5064.1	4881.9	4657.9	4388.5
7.5°	4216.6	4263.7	4417.6	4839.2	5188.9	5389.0	5362.5	5163.2	4834.9	4435.5	4059.3
10°	3906.2	3958.4	4143.9	4653.6	5104.2	5379.6	5379.6	5136.7	4700.6	4226.0	3792.5
12.5°	3659.9	3714.7	3926.7	4462.9	4928.1	5188.9	5232.5	5023.9	4604.0	4093.5	3617.2
15°	3578.7	3631.7	3860.0	4347.5	4741.7	4900.7	4915.3	4846.8	4557.0	4102.9	3609.5
17.5°	3679.6	3748.0	3978.9	4381.7	4570.6	4580.1	4591.2	4645.0	4562.1	4274.8	3765.1
20°	3971.2	4044.7	4285.9	4492.0	4421.0	4323.5	4329.5	4468.0	4622.8	4558.7	4137.1
22.5°	4391.9	4456.1	4703.2	4686.1	4357.7	4156.8	4114.9	4308.1	4712.6	4912.7	4533.0
25°	4846.0	4921.2	5205.1	4974.3	4375.7	4057.6	4031.1	4214.1	4805.8	5243.6	4990.5
27.5°	5365.9	5439.5	5663.5	5265.0	4469.7	4049.9	4018.2	4205.5	4889.6	5549.8	5427.5
30°	5752.4	5820.0	5972.2	5509.6	4585.2	4101.2	4061.8	4273.1	4961.4	5759.3	5853.3
32.5°	6056.0	6126.1	6209.1	5661.8	4737.4	4194.4	4121.7	4396.2	5055.5	5919.2	6168.9
35°	6372.4	6455.3	6449.4	5796.9	4879.3	4302.1	4231.2	4574.1	5203.4	6058.6	6569.1
37.5°	6773.4	6806.8	6764.0	5918.3	5049.5	4496.2	4456.9	4838.3	5413.8	6227.0	7036.8
40°	7180.5	7247.2	7027.4	6065.4	5256.5	4861.4	4857.1	5229.1	5663.5	6424.6	7490.0
42.5°	7529.4	7585.8	7273.7	6193.7	5507.0	5306.9	5339.4	5753.3	5991.0	6653.7	7854.3
45°	7791.9	7842.4	7501.2	6317.7	5837.1	5821.7	6013.2	6315.1	6404.0	6859.8	8068.1
47.5°	8015.1	8063.8	7659.4	6505.8	6245.0	6436.5	6770.0	6900.9	6757.2	6977.8	8307.5
50°	8203.2	8217.8	7768.0	6729.8	6751.2	7189.9	7513.1	7597.8	7106.1	7147.1	8515.3
52.5°	8399.0	8380.2	7955.2	7012.0	7298.5	7904.8	8139.9	8228.0	7440.4	7355.8	8818.1
55°	8837.7	8855.7	8375.1	7367.8	7851.8	8606.8	8916.4	8831.7	7810.7	7739.7	9202.9
57.5°	9367.9	9352.5	8966.0	7924.4	8415.3	9260.1	9491.0	9355.1	8305.0	8267.3	9592.8
60°	9574.0	9594.5	9460.2	8523.0	8971.1	9832.2	10068.2	9857.0	8897.6	8880.5	9887.0
62.5°	9367.0	9482.5	9573.1	9055.8	9444.9	10253.0	10487.3	10246.1	9515.8	9639.8	10093.0
65°	8954.9	8979.7	9288.4	9507.3	9673.2	10322.2	10444.5	10316.2	10032.3	10331.6	10083.6
67.5°	8419.6	8440.9	8802.7	9655.2	9379.0	9535.5	9621.0	9583.4	9872.4	10568.5	9619.3
70°	7909.9	7892.8	8275.0	9278.1	8164.7	7927.0	7998.0	7880.0	8518.8	9989.6	8708.6
72.5°	6918.0	6979.5	7390.0	8229.7	6464.7	6078.2	6233.0	5927.7	6552.0	8555.5	7068.5
75°	5418.9	5433.5	6118.4	6906.8	4876.8	4267.1	4476.6	4349.2	5018.7	7136.9	4881.1
77.5°	3752.3	3719.8	4456.1	5275.3	3477.8	3123.8	3127.2	3066.5	3504.3	5254.7	3316.2
80°	2383.2	2333.6	2789.4	3258.9	2390.1	2556.8	2473.0	2470.5	2281.5	3241.8	2005.3
82.5°	1287.8	1342.5	1762.4	2042.9	1714.5	1976.2	1811.2	1758.1	1565.7	2029.2	1282.7
85°	586.6	637.9	939.8	1389.6	1302.4	1316.9	879.9	1038.1	1295.5	1647.8	685.0
87.5°	57.3	73.5	194.1	655.9	444.7	350.6	130.8	252.3	325.8	585.8	54.7
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4166.2	4166.2	4166.2	4166.2	4166.2	4166.2	4166.2	4166.2	4166.2	4166.2	4166.2
2.5°	4427.8	4383.4	4232.0	4107.2	3974.6	3873.7	3742.0	3653.9	3593.2	3501.7	3490.6
5°	4224.3	4115.7	3852.3	3583.8	3352.1	3177.6	3000.6	2838.2	2742.4	2712.5	2674.0
7.5°	3881.4	3698.4	3359.8	3051.9	2786.0	2526.0	2325.9	2184.0	2089.1	2033.5	1966.8
10°	3599.2	3387.2	2975.0	2597.9	2379.0	2217.3	2041.2	1889.0	1771.8	1671.8	1617.0
12.5°	3409.4	3169.9	2706.5	2400.3	2231.0	2059.1	1853.1	1682.0	1509.3	1395.6	1346.8
15°	3352.1	3099.0	2623.5	2302.0	2059.1	1834.2	1603.4	1380.2	1209.1	1101.4	1065.5
17.5°	3492.3	3186.2	2622.7	2171.2	1857.3	1588.8	1292.9	1083.4	908.1	827.8	802.1
20°	3754.0	3353.8	2630.4	2042.0	1638.4	1260.5	940.6	768.8	685.0	650.8	637.9
22.5°	4119.1	3609.5	2653.5	1914.6	1399.0	968.0	704.6	617.4	587.5	581.5	578.9
25°	4568.9	3925.9	2731.3	1800.0	1197.2	738.8	589.2	549.8	532.7	526.8	525.9
27.5°	4982.8	4334.6	2825.3	1701.7	1002.2	637.1	532.7	499.4	482.3	481.4	483.1
30°	5356.5	4676.7	2904.0	1591.4	854.3	566.1	496.0	462.6	446.4	445.5	450.7
32.5°	5679.7	4958.0	2962.2	1482.8	772.2	522.5	462.6	426.7	413.0	410.5	413.0
35°	6025.2	5238.5	2935.6	1398.1	725.1	486.6	437.8	402.8	386.5	378.8	378.8
37.5°	6419.4	5527.5	2890.3	1328.0	703.8	456.6	416.4	382.2	366.0	358.3	357.4
40°	6849.6	5816.6	2827.9	1265.6	682.4	438.7	401.9	366.0	346.3	338.6	336.9
42.5°	7229.2	6063.7	2776.6	1224.5	647.3	442.1	389.1	354.0	329.2	319.0	318.1
45°	7559.3	6312.5	2767.2	1200.6	618.3	437.0	385.7	344.6	315.5	304.4	302.7
47.5°	7817.6	6571.6	2821.1	1186.9	586.6	409.6	407.9	338.6	303.6	291.6	289.9
50°	8132.2	6939.3	2944.2	1158.7	557.5	384.0	431.0	337.8	294.2	278.8	274.5
52.5°	8551.3	7418.2	3110.9	1108.2	515.6	360.0	411.3	337.8	283.0	267.7	262.5
55°	9184.9	8028.8	3274.3	1037.3	456.6	328.4	371.1	327.5	266.8	253.1	249.7
57.5°	9604.8	8475.1	3378.6	938.9	383.1	305.3	319.8	311.3	250.6	236.0	236.0
60°	9626.1	8594.9	3329.0	814.9	336.9	283.9	277.9	313.8	236.0	220.6	218.9
62.5°	9379.9	8301.6	3070.8	703.8	312.1	260.8	251.4	275.4	221.5	206.1	203.5
65°	8995.1	7553.3	2622.7	650.8	298.4	240.3	226.6	225.8	206.1	191.5	188.1
67.5°	8287.9	6600.7	2154.9	620.0	291.6	217.2	204.4	200.1	188.1	176.2	174.4
70°	7245.5	5528.4	1728.2	607.1	288.2	193.3	183.0	177.9	167.6	158.2	157.3
72.5°	5637.0	4484.3	1426.3	598.6	286.5	171.0	159.9	153.1	147.1	138.5	138.5
75°	4049.0	3299.1	1088.6	539.6	265.1	147.1	135.1	130.8	122.3	115.4	117.2
77.5°	2552.5	2221.6	716.6	396.8	205.2	118.0	107.7	105.2	98.3	88.9	94.9
80°	1723.9	1562.3	418.2	249.7	129.1	86.4	82.9	82.1	74.4	64.1	65.0
82.5°	1173.2	1151.0	217.2	142.0	74.4	50.5	48.7	50.5	41.9	34.2	34.2
85°	458.3	626.0	102.6	55.6	23.9	7.7	11.1	12.0	6.8	3.4	4.3
87.5°	8.6	64.1	2.6	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°	4166.2	4166.2	4166.2	4166.2	4166.2	4166.2	4166.2	4166.2	4166.2	4166.2	4166.2
2.5°	3473.5	3465.8	3478.6	3423.9	3435.0	3455.6	3465.8	3471.8	3556.5	3536.8	3590.7
5°	2709.9	2702.2	2751.8	2758.6	2784.3	2779.2	2804.0	2809.9	2840.7	2851.8	2927.1
7.5°	1971.1	2004.4	2060.9	2089.9	2133.5	2147.2	2134.4	2166.0	2101.9	2148.1	2161.8
10°	1583.7	1543.5	1519.6	1586.3	1594.8	1658.1	1632.4	1611.9	1649.5	1651.2	1687.2
12.5°	1318.6	1232.2	1174.9	1193.8	1214.3	1241.6	1245.9	1287.0	1314.3	1340.0	1361.4
15°	1033.8	1003.9	951.8	926.1	955.2	966.3	992.8	1027.0	1056.1	1063.8	1092.8
17.5°	793.6	798.7	790.1	774.7	792.7	801.3	803.0	803.8	811.5	806.4	849.1
20°	638.8	656.7	678.1	681.5	687.5	691.8	684.1	655.0	655.9	673.8	687.5
22.5°	578.1	581.5	605.4	613.1	631.9	624.2	602.0	588.3	586.6	590.9	597.7
25°	530.2	535.3	552.4	564.4	578.9	565.2	549.0	536.2	534.5	538.7	545.6
27.5°	487.4	495.1	510.5	522.5	536.2	523.3	507.9	496.8	496.0	495.1	499.4
30°	453.2	461.8	472.9	486.6	496.0	484.9	470.3	464.3	463.5	461.8	463.5
32.5°	419.0	432.7	443.8	450.7	460.1	451.5	440.4	437.0	431.0	425.9	423.3
35°	380.5	395.1	412.2	420.7	430.1	421.6	413.9	399.3	389.1	388.2	389.9
37.5°	358.3	364.3	378.0	392.5	401.9	397.6	383.1	368.6	366.0	366.0	367.7
40°	338.6	341.2	347.2	366.0	383.1	370.3	352.3	348.0	348.0	347.2	348.0
42.5°	319.0	321.5	321.5	336.1	363.4	342.9	329.2	329.2	329.2	330.1	332.6
45°	301.0	301.9	301.0	311.3	336.9	319.8	310.4	313.0	314.7	316.4	318.1
47.5°	285.6	286.5	285.6	294.2	307.0	300.1	295.0	298.4	301.9	304.4	306.1
50°	271.9	271.1	272.8	277.9	283.9	285.6	282.2	287.3	289.0	292.5	296.7
52.5°	260.0	259.1	260.8	263.4	271.9	271.9	271.9	276.2	279.6	283.0	289.0
55°	246.3	247.1	249.7	253.1	264.2	262.5	263.4	266.8	270.2	275.4	278.8
57.5°	233.4	235.2	238.6	243.7	254.8	254.0	254.8	256.5	260.8	263.4	266.8
60°	218.9	222.3	226.6	230.0	241.1	240.3	244.6	248.0	250.6	250.6	252.3
62.5°	204.4	209.5	213.8	216.3	228.3	229.2	235.2	237.7	239.4	237.7	240.3
65°	189.8	197.5	199.2	202.7	214.6	215.5	222.3	228.3	226.6	224.9	229.2
67.5°	175.3	184.7	183.9	188.1	200.1	201.8	207.8	218.1	214.6	212.9	216.3
70°	159.1	165.9	166.7	169.3	185.6	183.0	192.4	201.8	199.2	200.1	200.1
72.5°	141.1	147.1	147.1	152.2	169.3	165.0	172.7	183.0	183.0	182.1	182.1
75°	119.7	123.1	126.6	134.3	152.2	147.1	152.2	161.6	163.3	161.6	161.6
77.5°	96.6	101.8	103.5	113.7	126.6	125.7	130.8	135.1	138.5	136.8	136.8
80°	68.4	73.5	80.4	91.5	99.2	101.8	104.3	107.7	109.5	109.5	111.2
82.5°	38.5	46.2	52.2	63.3	66.7	79.5	78.7	81.2	78.7	69.3	77.0
85°	8.6	16.2	23.1	29.1	33.3	46.2	48.7	54.7	45.3	41.9	41.9
87.5°	0.0	0.0	0.0	0.0	0.0	6.8	13.7	18.8	16.2	13.7	13.7
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°	4166.2	4166.2	4166.2	4166.2	4166.2	4166.2	4166.2	4166.2	4166.2	4166.2
2.5°	3636.0	3710.4	3800.2	3955.0	4063.6	4180.7	4298.7	4424.4	4457.8	4492.0
5°	2947.6	3093.8	3173.4	3381.2	3599.2	3876.3	4102.9	4350.9	4454.3	4478.3
7.5°	2232.7	2331.9	2540.6	2750.9	3021.2	3311.9	3659.1	4045.6	4166.2	4216.6
10°	1770.1	1905.2	2088.2	2314.0	2550.8	2863.8	3255.5	3707.0	3878.0	3906.2
12.5°	1506.7	1657.2	1856.5	2095.1	2319.1	2555.1	2950.2	3416.2	3599.2	3659.9
15°	1204.9	1387.0	1617.0	1868.4	2112.2	2370.4	2770.6	3296.5	3507.7	3578.7
17.5°	946.6	1093.7	1342.5	1615.3	1904.4	2231.0	2733.0	3353.8	3613.8	3679.6
20°	724.3	829.5	1039.0	1327.2	1665.8	2093.3	2742.4	3570.1	3881.4	3971.2
22.5°	626.0	679.8	807.2	1081.7	1460.6	1973.6	2780.9	3866.9	4242.3	4391.9
25°	566.9	595.2	667.0	846.6	1264.7	1857.3	2868.9	4266.2	4746.8	4846.0
27.5°	516.5	537.0	581.5	710.6	1086.9	1749.6	2971.6	4709.2	5218.0	5365.9
30°	468.6	496.0	537.9	631.1	973.1	1651.2	3100.7	5068.3	5614.8	5752.4
32.5°	431.8	459.2	497.7	575.5	876.5	1547.8	3177.6	5383.9	5938.8	6056.0
35°	401.9	425.0	465.2	531.0	803.0	1469.1	3162.3	5634.4	6252.7	6372.4
37.5°	380.5	400.2	440.4	489.1	747.4	1387.0	3154.6	5965.4	6634.9	6773.4
40°	360.9	381.4	418.2	461.8	691.8	1290.4	3158.8	6293.7	7042.0	7180.5
42.5°	345.5	368.6	398.5	454.1	634.5	1212.6	3158.8	6579.3	7396.0	7529.4
45°	332.6	357.4	386.5	453.2	589.2	1153.6	3137.5	6824.8	7678.2	7791.9
47.5°	321.5	348.9	390.8	437.8	578.1	1110.8	3118.6	7021.4	7908.2	8015.1
50°	313.8	346.3	415.6	419.9	581.5	1098.0	3209.3	7269.4	8110.9	8203.2
52.5°	307.8	347.2	414.7	393.4	575.5	1106.5	3398.3	7656.8	8392.2	8399.0
55°	295.9	346.3	393.4	363.4	550.7	1121.1	3641.1	8219.5	8832.6	8837.7
57.5°	283.9	336.9	365.1	337.8	500.2	1121.1	3933.6	8752.2	9363.6	9367.9
60°	271.9	350.6	320.7	315.5	434.4	1100.5	4242.3	8986.5	9530.4	9574.0
62.5°	260.0	353.2	286.5	295.9	386.5	1050.9	4472.3	8727.4	9304.6	9367.0
65°	246.3	284.8	264.2	275.4	361.7	968.0	4399.6	8252.8	8880.5	8954.9
67.5°	230.0	241.1	240.3	254.0	353.2	845.7	4016.5	7652.5	8423.8	8419.6
70°	210.4	216.3	218.9	233.4	336.9	750.8	3347.0	6873.5	7814.1	7909.9
72.5°	189.8	195.0	197.5	210.4	320.7	696.9	2597.9	5800.3	6768.3	6918.0
75°	167.6	171.0	174.4	185.6	303.6	617.4	1850.5	4427.8	5183.8	5418.9
77.5°	144.5	144.5	148.8	159.9	255.7	509.7	1241.6	3105.8	3512.0	3752.3
80°	117.2	118.0	116.3	128.3	188.1	348.9	705.5	2074.5	2337.1	2383.2
82.5°	89.8	87.2	88.1	94.1	140.2	237.7	376.3	1288.7	1313.5	1287.8
85°	56.4	56.4	54.7	61.6	89.8	124.0	205.2	789.3	616.5	586.6
87.5°	23.1	18.8	21.4	24.8	42.8	50.5	80.4	162.5	62.4	57.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)