

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: P452668

Luminaire Tested: **GALN-SA3C-827-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452668  
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-SA3C-827-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1050mA 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: 13299 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

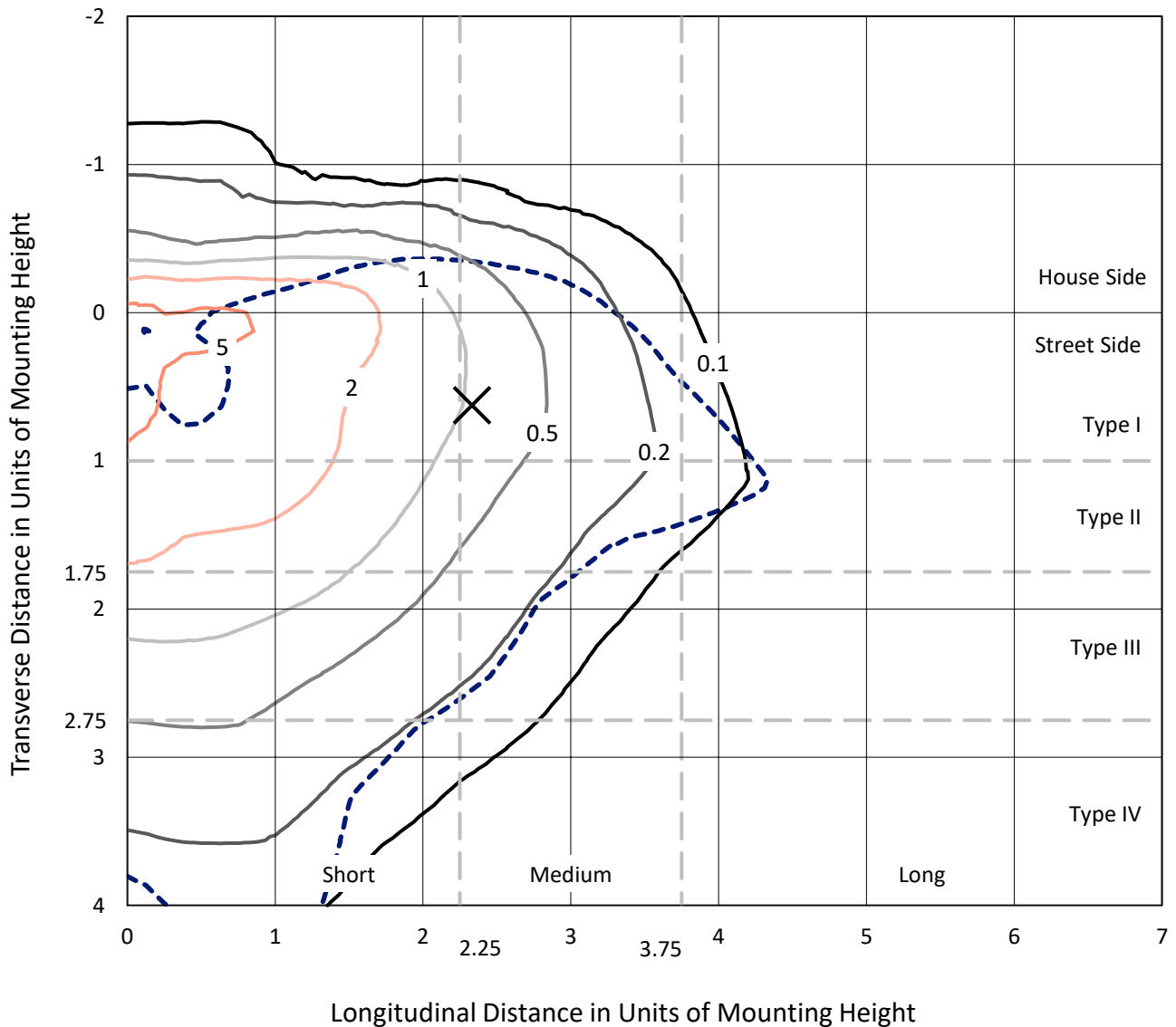
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

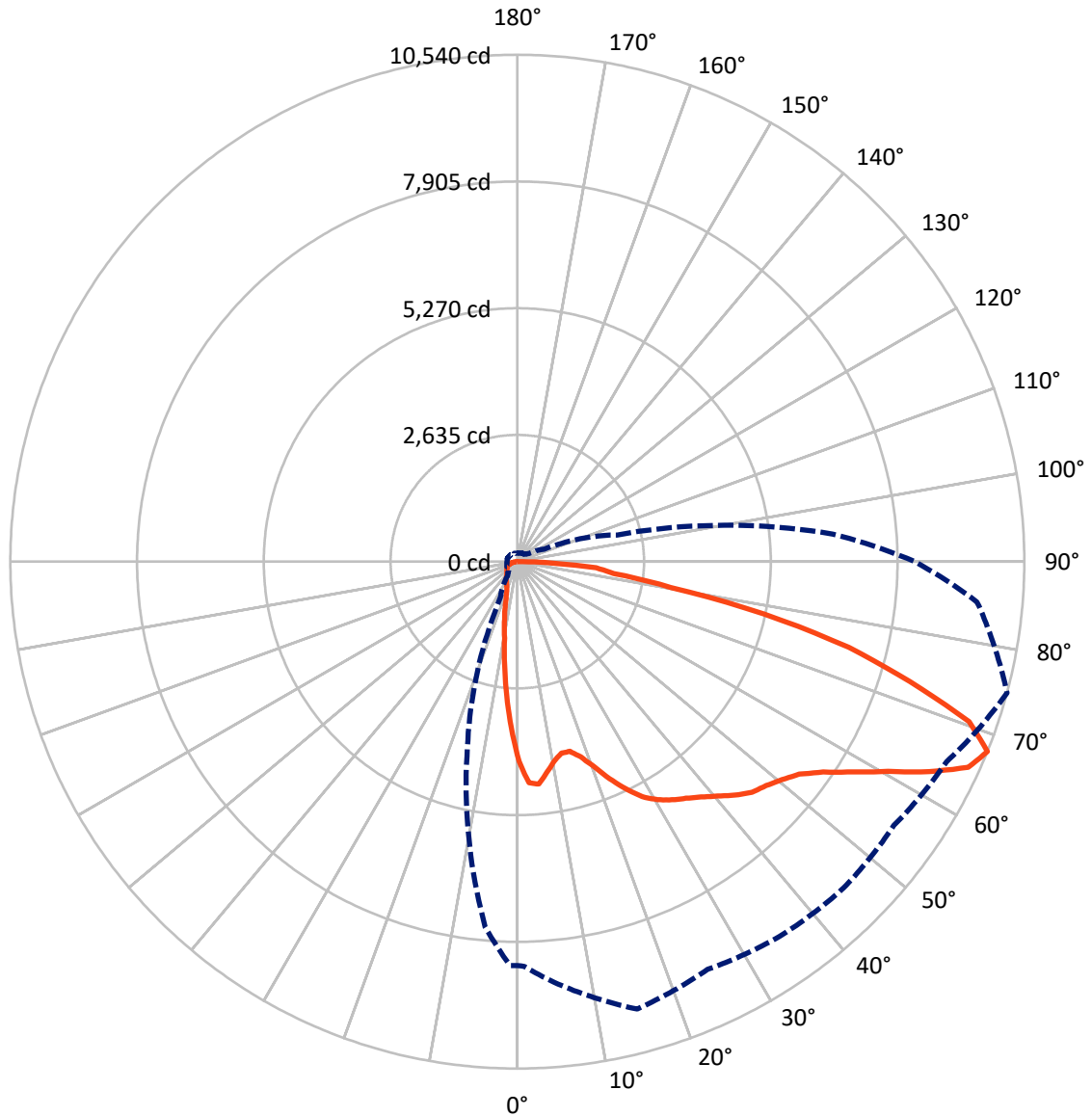
× Max cd  
 - - - 1/2 Max cd



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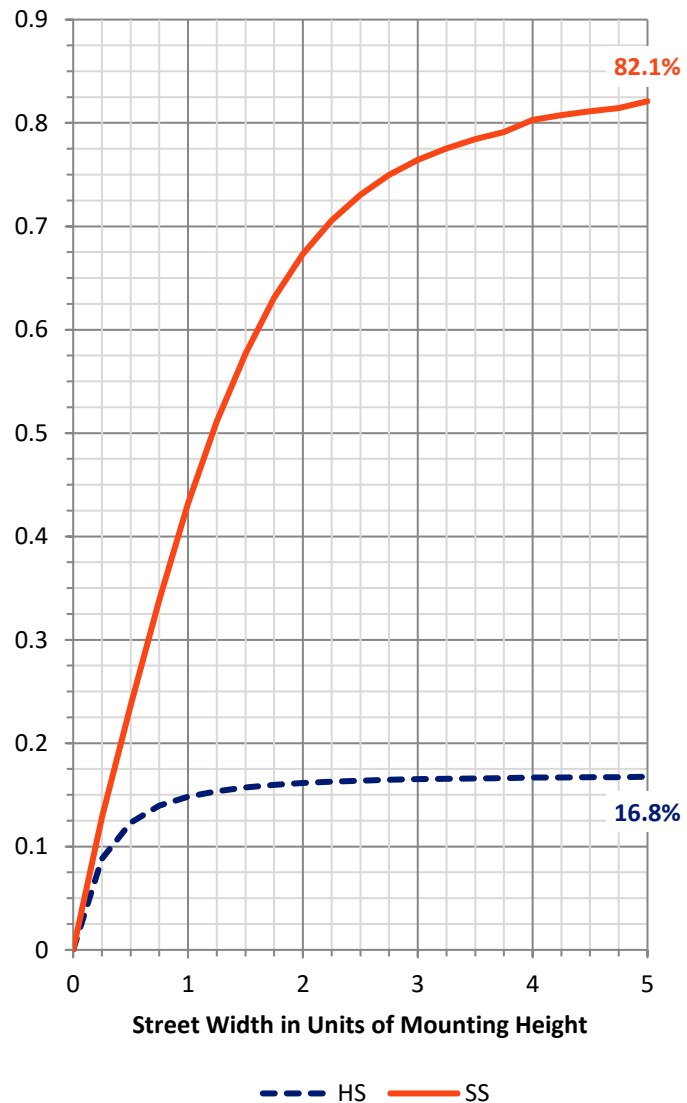
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2247.8	0.0	2247.8
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	11051.2	0.0	11051.2
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	13299.0	0.0	13299.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.1	2.4
10°-20°	657.2	4.9
20°-30°	945.8	7.1
30°-40°	1362.2	10.2
40°-50°	1913.5	14.4
50°-60°	2668.6	20.1
60°-70°	3172.8	23.9
70°-80°	1868.6	14.1
80°-90°	395.1	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°	13299.0	100.0
0°-180°	13299.0	100.0



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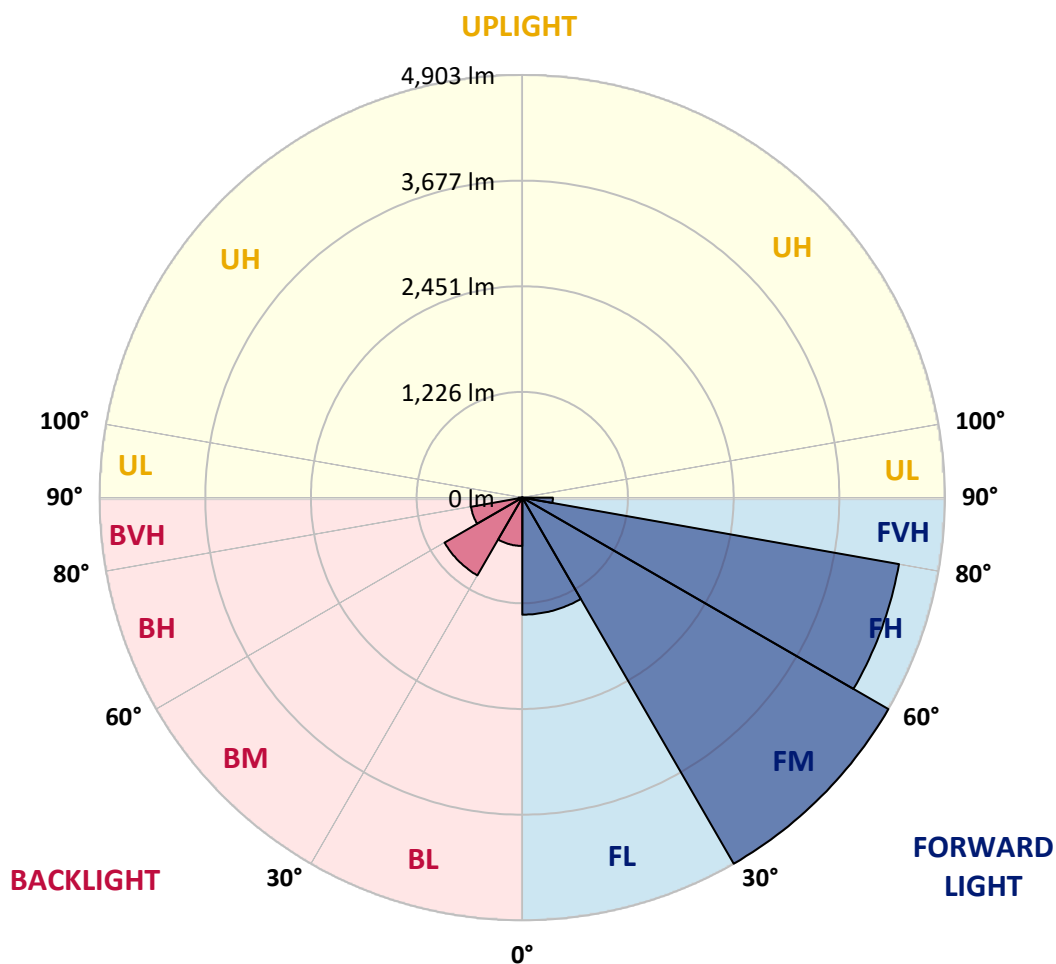
CATALOG NUMBER: GALN-SA3C-827-U-SLL

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1357.5	10.2			
FM	(30°-60°)	4902.8	36.9			
FH	(60°-80°)	4436.6	33.4			G2/5000
FVH	(80°-90°)	354.3	2.7			G3/500
BL	(0°-30°)	560.7	4.2	B2/1000		
BM	(30°-60°)	1041.4	7.8	B2/2500		
BH	(60°-80°)	604.8	4.5	B2/1000		G2/1000
BVH	(80°-90°)	40.9	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°	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9
2.5°	4479.8	4485.8	4524.2	4635.9	4712.7	4740.8	4760.4	4723.8	4687.9	4600.9	4469.6
5°	4466.2	4501.2	4600.9	4851.7	5049.5	5134.8	5160.4	5050.4	4868.7	4645.3	4376.7
7.5°	4205.2	4252.1	4405.7	4826.1	5174.9	5374.5	5348.0	5149.3	4821.8	4423.6	4048.3
10°	3895.7	3947.7	4132.7	4641.0	5090.5	5365.1	5365.1	5122.9	4687.9	4214.6	3782.2
12.5°	3650.1	3704.6	3916.1	4450.8	4914.8	5174.9	5218.4	5010.3	4591.6	4082.4	3607.4
15°	3569.0	3621.9	3849.6	4335.7	4728.9	4887.5	4902.0	4833.8	4544.7	4091.8	3599.7
17.5°	3669.7	3737.9	3968.2	4369.8	4558.3	4567.7	4578.8	4632.5	4549.8	4263.2	3755.0
20°	3960.5	4033.8	4274.3	4479.8	4409.1	4311.8	4317.8	4456.0	4610.3	4546.4	4125.9
22.5°	4380.1	4444.0	4690.5	4673.4	4346.0	4145.5	4103.8	4296.5	4699.9	4899.4	4520.8
25°	4832.9	4908.0	5191.1	4960.8	4363.9	4046.6	4020.2	4202.7	4792.8	5229.5	4977.0
27.5°	5351.4	5424.8	5648.2	5250.8	4457.7	4038.9	4007.4	4194.2	4876.4	5534.8	5412.8
30°	5736.9	5804.3	5956.1	5494.7	4572.8	4090.1	4050.9	4261.5	4948.0	5743.7	5837.5
32.5°	6039.6	6109.6	6192.3	5646.5	4724.6	4183.1	4110.6	4384.3	5041.9	5903.2	6152.2
35°	6355.2	6437.9	6431.9	5781.2	4866.2	4290.5	4219.7	4561.7	5189.4	6042.2	6551.3
37.5°	6755.2	6788.4	6745.8	5902.3	5035.9	4484.1	4444.9	4825.2	5399.2	6210.2	7017.8
40°	7161.1	7227.6	7008.4	6049.0	5242.3	4848.3	4844.0	5215.0	5648.2	6407.2	7469.8
42.5°	7509.0	7565.3	7254.1	6177.0	5492.1	5292.6	5325.0	5737.7	5974.8	6635.8	7833.1
45°	7770.9	7821.2	7480.9	6300.6	5821.3	5806.0	5997.0	6298.1	6386.7	6841.3	8046.3
47.5°	7993.4	8042.1	7638.7	6488.2	6228.1	6419.2	6751.7	6882.2	6739.0	6959.0	8285.1
50°	8181.1	8195.6	7747.0	6711.7	6733.0	7170.5	7492.8	7577.3	7086.9	7127.8	8492.3
52.5°	8376.4	8357.6	7933.8	6993.1	7278.8	7883.4	8118.0	8205.8	7420.4	7335.9	8794.2
55°	8813.9	8831.8	8352.5	7347.9	7830.6	8583.6	8892.3	8807.9	7789.6	7718.8	9178.0
57.5°	9342.6	9327.3	8941.8	7903.1	8392.6	9235.2	9465.4	9329.8	8282.6	8245.0	9566.9
60°	9548.1	9568.6	9434.7	8500.0	8946.9	9805.7	10041.1	9830.4	8873.6	8856.5	9860.3
62.5°	9341.8	9456.9	9547.3	9031.3	9419.4	10225.3	10458.9	10218.4	9490.1	9613.8	10065.8
65°	8930.7	8955.4	9263.3	9481.6	9647.1	10294.3	10416.3	10288.4	10005.2	10303.7	10056.4
67.5°	8396.8	8418.2	8778.9	9629.2	9353.7	9509.8	9595.0	9557.5	9845.8	10540.0	9593.3
70°	7888.6	7871.5	8252.7	9253.1	8142.7	7905.6	7976.4	7858.7	8495.8	9962.6	8685.1
72.5°	6899.3	6960.7	7370.0	8207.5	6447.3	6061.8	6216.2	5911.7	6534.3	8532.4	7049.4
75°	5404.3	5418.8	6101.9	6888.2	4863.6	4255.6	4464.5	4337.4	5005.2	7117.6	4867.9
77.5°	3742.2	3709.8	4444.0	5261.0	3468.4	3115.3	3118.8	3058.2	3494.8	5240.6	3307.2
80°	2376.8	2327.3	2781.9	3250.1	2383.6	2549.9	2466.3	2463.8	2275.3	3233.0	1999.9
82.5°	1284.3	1338.9	1757.7	2037.4	1709.9	1970.9	1806.3	1753.4	1561.5	2023.7	1279.2
85°	585.0	636.2	937.2	1385.8	1298.8	1313.3	877.5	1035.3	1292.0	1643.4	683.1
87.5°	57.1	73.3	193.6	654.1	443.5	349.7	130.5	251.6	324.9	584.2	54.6
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°	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9
2.5°	4415.9	4371.5	4220.6	4096.1	3963.9	3863.3	3731.9	3644.1	3583.5	3492.3	3481.2
5°	4212.9	4104.6	3841.9	3574.2	3343.0	3169.1	2992.5	2830.5	2735.0	2705.1	2666.8
7.5°	3870.9	3688.4	3350.7	3043.7	2778.5	2519.2	2319.7	2178.1	2083.4	2028.0	1961.5
10°	3589.5	3378.0	2966.9	2590.9	2372.5	2211.4	2035.7	1883.9	1767.0	1667.3	1612.7
12.5°	3400.2	3161.4	2699.2	2393.9	2225.0	2053.6	1848.1	1677.5	1505.2	1391.8	1343.2
15°	3343.0	3090.6	2616.4	2295.8	2053.6	1829.3	1599.0	1376.4	1205.9	1098.4	1062.6
17.5°	3482.9	3177.6	2615.6	2165.3	1852.3	1584.5	1289.5	1080.5	905.7	825.5	799.9
20°	3743.9	3344.7	2623.3	2036.5	1634.0	1257.1	938.1	766.7	683.1	649.0	636.2
22.5°	4108.0	3599.7	2646.3	1909.5	1395.2	965.4	702.7	615.7	585.9	579.9	577.4
25°	4556.6	3915.3	2723.9	1795.2	1193.9	736.8	587.6	548.4	531.3	525.3	524.5
27.5°	4969.4	4322.9	2817.7	1697.1	999.5	635.3	531.3	498.0	481.0	480.1	481.8
30°	5342.0	4664.1	2896.2	1587.1	852.0	564.6	494.6	461.4	445.2	444.3	449.4
32.5°	5664.4	4944.6	2954.2	1478.8	770.1	521.1	461.4	425.6	411.9	409.4	411.9
35°	6008.9	5224.4	2927.7	1394.4	723.2	485.3	436.6	401.7	385.5	377.8	377.8
37.5°	6402.1	5512.6	2882.5	1324.4	701.9	455.4	415.3	381.2	365.0	357.3	356.5
40°	6831.1	5800.9	2820.3	1262.2	680.5	437.5	400.8	365.0	345.4	337.7	336.0
42.5°	7209.7	6047.3	2769.1	1221.2	645.6	440.9	388.0	353.1	328.3	318.1	317.2
45°	7538.9	6295.5	2759.7	1197.4	616.6	435.8	384.6	343.7	314.7	303.6	301.9
47.5°	7796.4	6553.9	2813.4	1183.7	585.0	408.5	406.8	337.7	302.7	290.8	289.1
50°	8110.3	6920.6	2936.2	1155.6	556.0	382.9	429.8	336.9	293.4	278.0	273.8
52.5°	8528.2	7398.2	3102.5	1105.3	514.2	359.0	410.2	336.9	282.3	266.9	261.8
55°	9160.1	8007.1	3265.4	1034.5	455.4	327.5	370.1	326.6	266.1	252.4	249.0
57.5°	9578.8	8452.3	3369.5	936.4	382.1	304.5	319.0	310.4	249.9	235.4	235.4
60°	9600.2	8571.7	3320.0	812.7	336.0	283.1	277.2	313.0	235.4	220.0	218.3
62.5°	9354.5	8279.1	3062.5	701.9	311.3	260.1	250.7	274.6	220.9	205.5	203.0
65°	8970.8	7532.9	2615.6	649.0	297.6	239.6	226.0	225.1	205.5	191.0	187.6
67.5°	8265.5	6582.9	2149.1	618.3	290.8	216.6	203.8	199.6	187.6	175.7	174.0
70°	7225.9	5513.5	1723.5	605.5	287.4	192.7	182.5	177.4	167.2	157.8	156.9
72.5°	5621.8	4472.2	1422.5	597.0	285.7	170.6	159.5	152.7	146.7	138.2	138.2
75°	4038.1	3290.2	1085.6	538.1	264.4	146.7	134.7	130.5	122.0	115.1	116.8
77.5°	2545.7	2215.6	714.7	395.7	204.7	117.7	107.5	104.9	98.1	88.7	94.7
80°	1719.3	1558.1	417.0	249.0	128.8	86.1	82.7	81.9	74.2	64.0	64.8
82.5°	1170.1	1147.9	216.6	141.6	74.2	50.3	48.6	50.3	41.8	34.1	34.1
85°	457.1	624.3	102.3	55.4	23.9	7.7	11.1	11.9	6.8	3.4	4.3
87.5°	8.5	64.0	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°	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9
2.5°	3464.1	3456.5	3469.3	3414.7	3425.8	3446.2	3456.5	3462.4	3546.9	3527.2	3581.0
5°	2702.6	2694.9	2744.4	2751.2	2776.8	2771.7	2796.4	2802.4	2833.1	2844.1	2919.2
7.5°	1965.7	1999.0	2055.3	2084.3	2127.8	2141.4	2128.6	2160.2	2096.2	2142.3	2155.9
10°	1579.4	1539.3	1515.5	1582.0	1590.5	1653.6	1628.0	1607.6	1645.1	1646.8	1682.6
12.5°	1315.0	1228.9	1171.8	1190.5	1211.0	1238.3	1242.6	1283.5	1310.8	1336.4	1357.7
15°	1031.1	1001.2	949.2	923.6	952.6	963.7	990.1	1024.2	1053.2	1060.9	1089.9
17.5°	791.4	796.5	788.0	772.7	790.6	799.1	800.8	801.6	809.3	804.2	846.8
20°	637.1	655.0	676.3	679.7	685.7	689.9	682.3	653.3	654.1	672.0	685.7
22.5°	576.5	579.9	603.8	611.5	630.2	622.6	600.4	586.7	585.0	589.3	596.1
25°	528.7	533.9	550.9	562.9	577.4	563.7	547.5	534.7	533.0	537.3	544.1
27.5°	486.1	493.8	509.1	521.1	534.7	521.9	506.6	495.5	494.6	493.8	498.0
30°	452.0	460.5	471.6	485.3	494.6	483.5	469.0	463.1	462.2	460.5	462.2
32.5°	417.9	431.5	442.6	449.4	458.8	450.3	439.2	435.8	429.8	424.7	422.1
35°	379.5	394.0	411.1	419.6	429.0	420.4	412.8	398.3	388.0	387.2	388.9
37.5°	357.3	363.3	376.9	391.4	400.8	396.6	382.1	367.6	365.0	365.0	366.7
40°	337.7	340.3	346.2	365.0	382.1	369.3	351.4	347.1	347.1	346.2	347.1
42.5°	318.1	320.7	320.7	335.2	362.4	342.0	328.3	328.3	328.3	329.2	331.7
45°	300.2	301.0	300.2	310.4	336.0	319.0	309.6	312.1	313.8	315.5	317.2
47.5°	284.8	285.7	284.8	293.4	306.2	299.3	294.2	297.6	301.0	303.6	305.3
50°	271.2	270.3	272.0	277.2	283.1	284.8	281.4	286.5	288.3	291.7	295.9
52.5°	259.3	258.4	260.1	262.7	271.2	271.2	271.2	275.5	278.9	282.3	288.3
55°	245.6	246.5	249.0	252.4	263.5	261.8	262.7	266.1	269.5	274.6	278.0
57.5°	232.8	234.5	237.9	243.1	254.1	253.3	254.1	255.8	260.1	262.7	266.1
60°	218.3	221.7	226.0	229.4	240.5	239.6	243.9	247.3	249.9	249.9	251.6
62.5°	203.8	208.9	213.2	215.8	227.7	228.6	234.5	237.1	238.8	237.1	239.6
65°	189.3	197.0	198.7	202.1	214.1	214.9	221.7	227.7	226.0	224.3	228.6
67.5°	174.8	184.2	183.4	187.6	199.6	201.3	207.2	217.5	214.1	212.4	215.8
70°	158.6	165.4	166.3	168.9	185.1	182.5	191.9	201.3	198.7	199.6	199.6
72.5°	140.7	146.7	146.7	151.8	168.9	164.6	172.3	182.5	182.5	181.6	181.6
75°	119.4	122.8	126.2	133.9	151.8	146.7	151.8	161.2	162.9	161.2	161.2
77.5°	96.4	101.5	103.2	113.4	126.2	125.4	130.5	134.7	138.2	136.5	136.5
80°	68.2	73.3	80.2	91.3	98.9	101.5	104.0	107.5	109.2	109.2	110.9
82.5°	38.4	46.1	52.0	63.1	66.5	79.3	78.5	81.0	78.5	69.1	76.8
85°	8.5	16.2	23.0	29.0	33.3	46.1	48.6	54.6	45.2	41.8	41.8
87.5°	0.0	0.0	0.0	0.0	0.0	6.8	13.6	18.8	16.2	13.6	13.6
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°	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9
2.5°	3626.2	3700.4	3789.9	3944.3	4052.6	4169.4	4287.1	4412.5	4445.7	4479.8
5°	2939.7	3085.5	3164.8	3372.0	3589.5	3865.8	4091.8	4339.1	4442.3	4466.2
7.5°	2226.7	2325.6	2533.7	2743.5	3013.0	3303.0	3649.2	4034.7	4154.9	4205.2
10°	1765.3	1900.1	2082.6	2307.7	2544.0	2856.1	3246.7	3697.0	3867.5	3895.7
12.5°	1502.7	1652.8	1851.5	2089.4	2312.8	2548.2	2942.2	3407.0	3589.5	3650.1
15°	1201.6	1383.3	1612.7	1863.4	2106.5	2364.0	2763.1	3287.6	3498.3	3569.0
17.5°	944.1	1090.8	1338.9	1611.0	1899.2	2225.0	2725.6	3344.7	3604.0	3669.7
20°	722.3	827.2	1036.2	1323.6	1661.3	2087.7	2735.0	3560.5	3870.9	3960.5
22.5°	624.3	678.0	805.1	1078.8	1456.6	1968.3	2773.4	3856.4	4230.8	4380.1
25°	565.4	593.6	665.2	844.3	1261.3	1852.3	2861.2	4254.7	4734.0	4832.9
27.5°	515.1	535.6	579.9	708.7	1083.9	1744.9	2963.5	4696.5	5203.9	5351.4
30°	467.3	494.6	536.4	629.4	970.5	1646.8	3092.3	5054.6	5599.6	5736.9
32.5°	430.7	458.0	496.3	573.9	874.1	1543.6	3169.1	5369.3	5922.8	6039.6
35°	400.8	423.8	463.9	529.6	800.8	1465.1	3153.7	5619.2	6235.8	6355.2
37.5°	379.5	399.1	439.2	487.8	745.4	1383.3	3146.0	5949.2	6617.0	6755.2
40°	359.9	380.4	417.0	460.5	689.9	1286.9	3150.3	6276.7	7022.9	7161.1
42.5°	344.5	367.6	397.4	452.8	632.8	1209.3	3150.3	6561.6	7376.0	7509.0
45°	331.7	356.5	385.5	452.0	587.6	1150.4	3129.0	6806.3	7657.4	7770.9
47.5°	320.7	347.9	389.7	436.6	576.5	1107.8	3110.2	7002.5	7886.8	7993.4
50°	313.0	345.4	414.5	418.7	579.9	1095.0	3200.6	7249.8	8089.0	8181.1
52.5°	307.0	346.2	413.6	392.3	573.9	1103.5	3389.1	7636.1	8369.5	8376.4
55°	295.1	345.4	392.3	362.4	549.2	1118.0	3631.3	8197.3	8808.7	8813.9
57.5°	283.1	336.0	364.2	336.9	498.9	1118.0	3923.0	8728.6	9338.3	9342.6
60°	271.2	349.7	319.8	314.7	433.2	1097.6	4230.8	8962.2	9504.6	9548.1
62.5°	259.3	352.2	285.7	295.1	385.5	1048.1	4460.2	8703.8	9279.5	9341.8
65°	245.6	284.0	263.5	274.6	360.7	965.4	4387.7	8230.5	8856.5	8930.7
67.5°	229.4	240.5	239.6	253.3	352.2	843.4	4005.7	7631.9	8401.1	8396.8
70°	209.8	215.8	218.3	232.8	336.0	748.8	3337.9	6854.9	7793.0	7888.6
72.5°	189.3	194.4	197.0	209.8	319.8	695.0	2590.9	5784.7	6750.0	6899.3
75°	167.2	170.6	174.0	185.1	302.7	615.7	1845.5	4415.9	5169.8	5404.3
77.5°	144.1	144.1	148.4	159.5	255.0	508.3	1238.3	3097.4	3502.5	3742.2
80°	116.8	117.7	116.0	127.9	187.6	347.9	703.6	2068.9	2330.7	2376.8
82.5°	89.5	87.0	87.8	93.8	139.9	237.1	375.2	1285.2	1309.9	1284.3
85°	56.3	56.3	54.6	61.4	89.5	123.7	204.7	787.1	614.9	585.0
87.5°	23.0	18.8	21.3	24.7	42.6	50.3	80.2	162.0	62.3	57.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)