

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: P451827

Luminaire Tested: **GALN-SA2D-727-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451827  
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-SA2D-727-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA 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: 11215 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

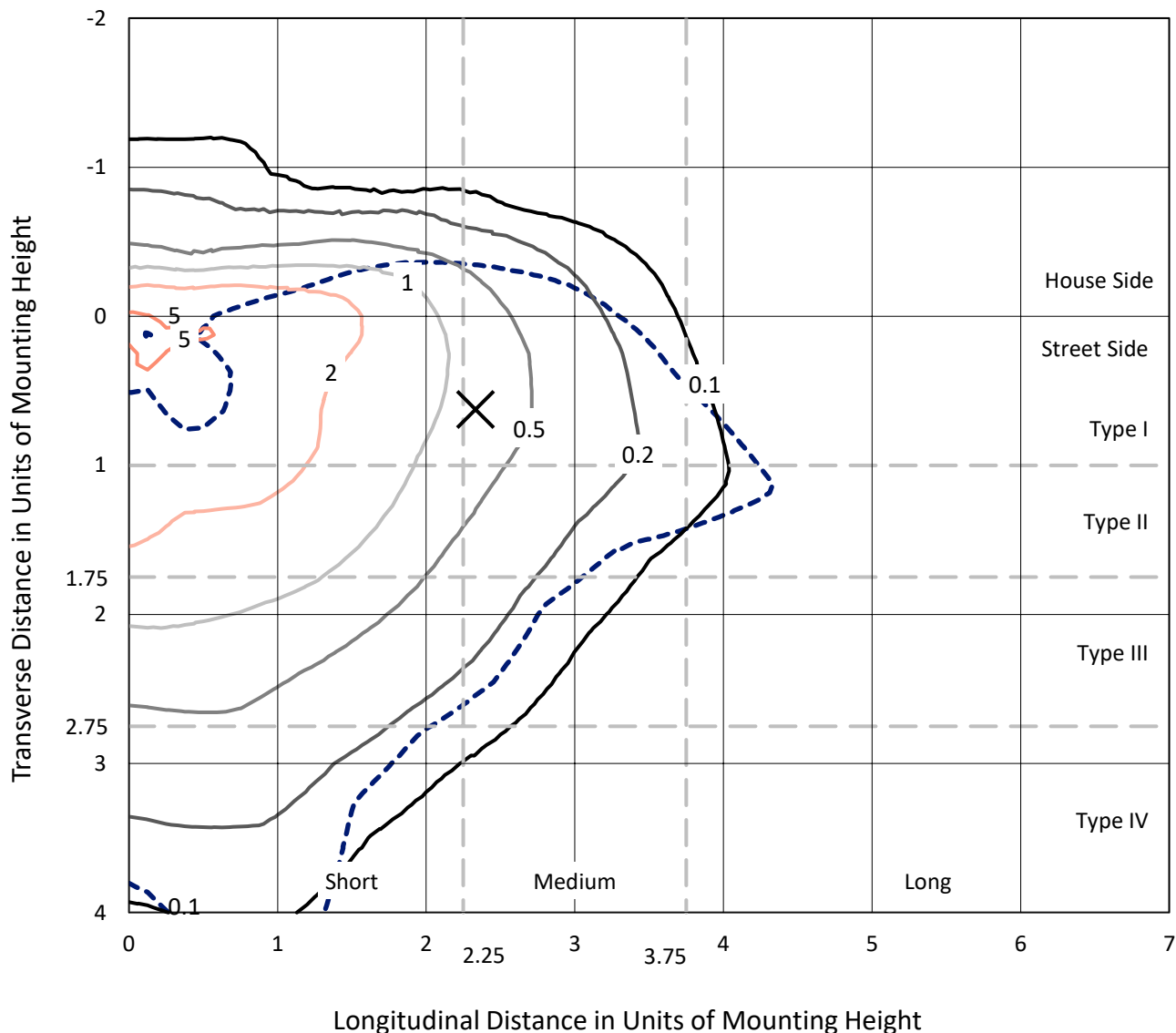
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

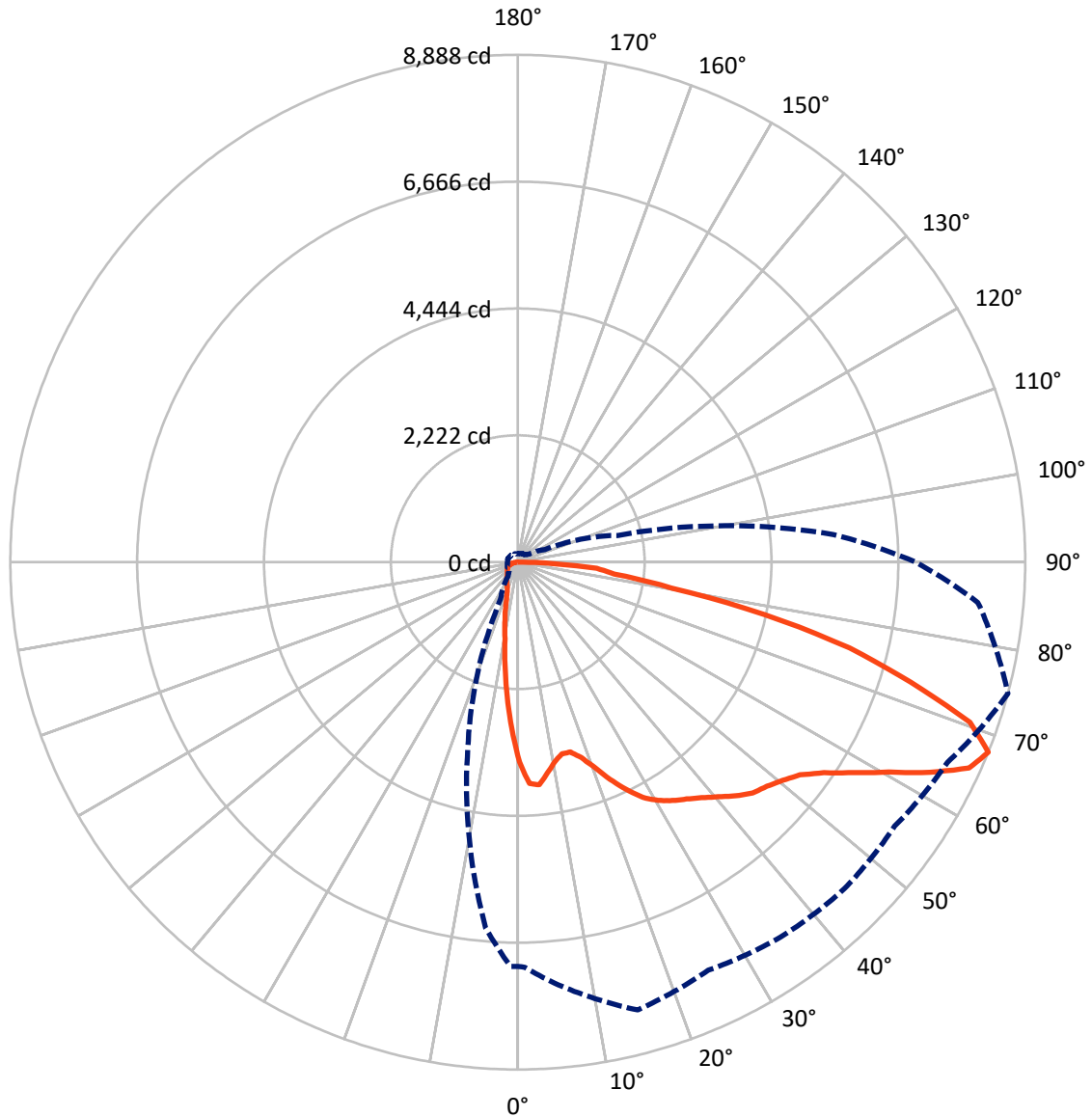
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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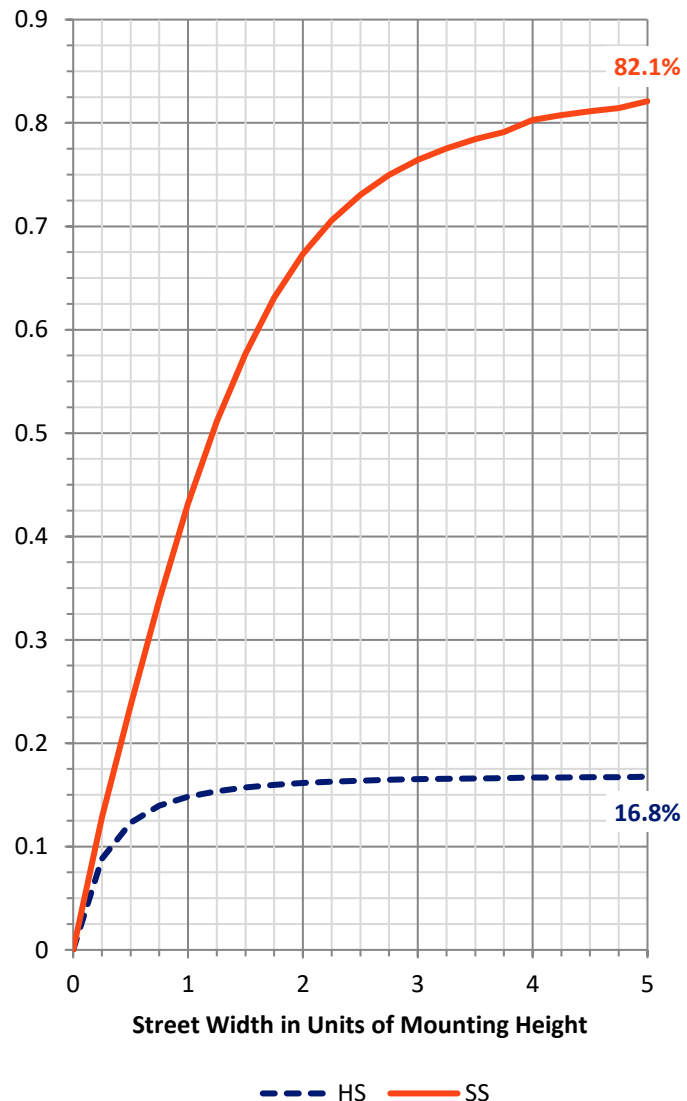
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1895.6	0.0	1895.6
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	9319.4	0.0	9319.4
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	11215.0	0.0	11215.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.8	2.4
10°-20°	554.2	4.9
20°-30°	797.6	7.1
30°-40°	1148.7	10.2
40°-50°	1613.6	14.4
50°-60°	2250.4	20.1
60°-70°	2675.6	23.9
70°-80°	1575.8	14.1
80°-90°	333.2	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°	11215.0	100.0
0°-180°	11215.0	100.0



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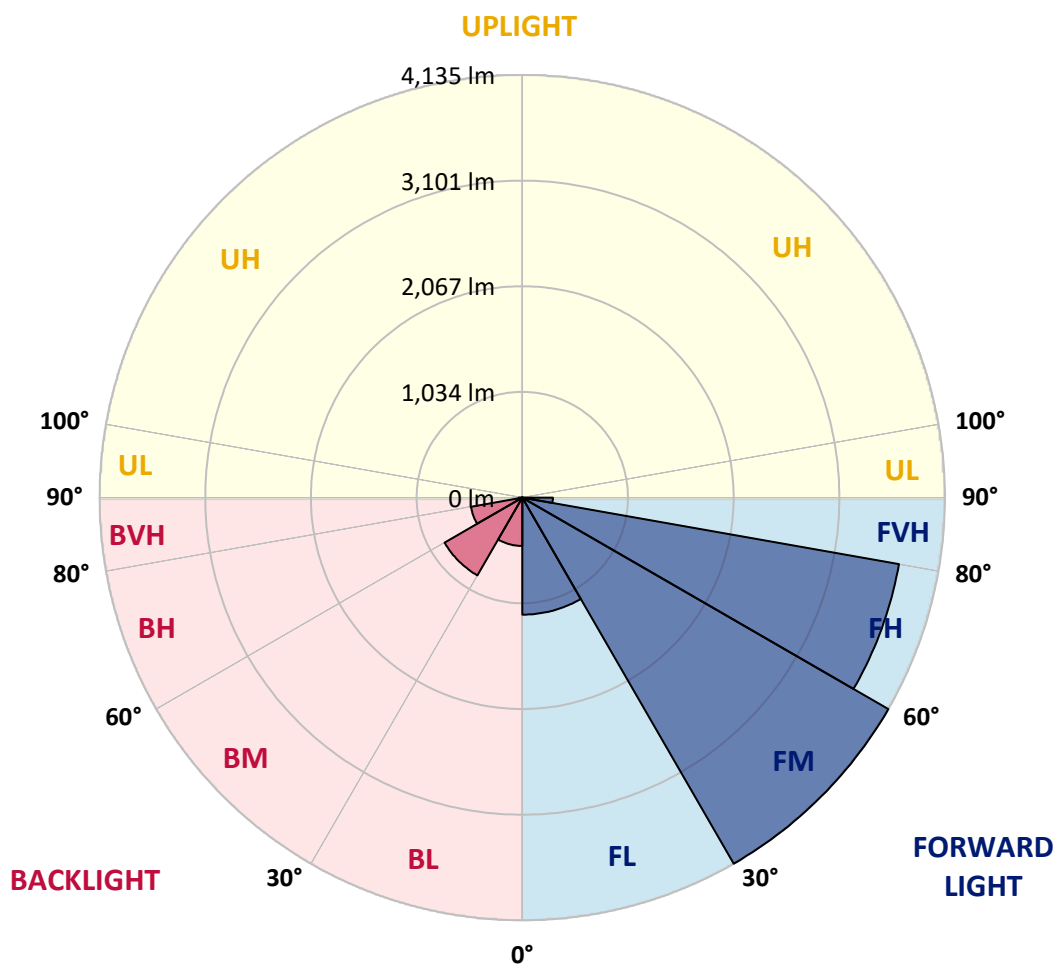
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1144.7	10.2			
FM	(30°-60°)	4134.6	36.9			
FH	(60°-80°)	3741.4	33.4			G2/5000
FVH	(80°-90°)	298.8	2.7			G3/500
BL	(0°-30°)	472.8	4.2	B1/500		
BM	(30°-60°)	878.2	7.8	B1/1000		
BH	(60°-80°)	510.1	4.5	B2/1000		G2/1000
BVH	(80°-90°)	34.5	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°	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8
2.5°	3777.8	3782.9	3815.2	3909.4	3974.2	3997.9	4014.4	3983.5	3953.3	3880.0	3769.2
5°	3766.3	3795.8	3880.0	4091.4	4258.2	4330.2	4351.7	4259.0	4105.8	3917.4	3690.8
7.5°	3546.3	3585.8	3715.3	4069.8	4364.0	4532.3	4510.0	4342.4	4066.2	3730.4	3413.9
10°	3285.2	3329.1	3485.1	3913.8	4292.8	4524.3	4524.3	4320.1	3953.3	3554.2	3189.6
12.5°	3078.1	3124.1	3302.5	3753.4	4144.6	4364.0	4400.6	4225.2	3872.1	3442.7	3042.1
15°	3009.8	3054.3	3246.4	3656.3	3987.8	4121.6	4133.8	4076.3	3832.5	3450.6	3035.6
17.5°	3094.6	3152.2	3346.3	3685.1	3844.0	3851.9	3861.3	3906.6	3836.8	3595.2	3166.5
20°	3339.9	3401.7	3604.5	3777.8	3718.1	3636.2	3641.2	3757.7	3887.9	3833.9	3479.4
22.5°	3693.7	3747.6	3955.5	3941.1	3664.9	3495.9	3460.7	3623.2	3963.4	4131.7	3812.4
25°	4075.6	4138.9	4377.6	4183.5	3680.0	3412.5	3390.2	3544.1	4041.8	4410.0	4197.1
27.5°	4512.8	4574.7	4763.1	4428.0	3759.1	3406.0	3379.4	3536.9	4112.3	4667.5	4564.6
30°	4837.9	4894.7	5022.7	4633.7	3856.2	3449.2	3416.1	3593.7	4172.7	4843.7	4922.8
32.5°	5093.2	5152.2	5221.9	4761.7	3984.2	3527.6	3466.4	3697.3	4251.8	4978.1	5188.1
35°	5359.3	5429.1	5424.0	4875.3	4103.6	3618.2	3558.5	3846.9	4376.2	5095.4	5524.7
37.5°	5696.6	5724.7	5688.7	4977.4	4246.7	3781.4	3748.4	4069.1	4553.1	5237.0	5918.1
40°	6038.9	6095.0	5910.2	5101.1	4420.8	4088.5	4084.9	4397.8	4763.1	5403.2	6299.3
42.5°	6332.4	6379.8	6117.3	5209.0	4631.5	4463.2	4490.5	4838.6	5038.6	5595.9	6605.6
45°	6553.1	6595.6	6308.6	5313.3	4909.1	4896.2	5057.3	5311.1	5385.9	5769.2	6785.4
47.5°	6740.8	6781.8	6441.7	5471.5	5252.2	5413.2	5693.7	5803.8	5682.9	5868.5	6986.8
50°	6899.1	6911.3	6533.0	5659.9	5677.9	6046.8	6318.7	6389.9	5976.4	6010.9	7161.6
52.5°	7063.8	7047.9	6690.5	5897.3	6138.2	6648.1	6845.8	6919.9	6257.6	6186.4	7416.2
55°	7432.7	7447.8	7043.6	6196.4	6603.5	7238.5	7498.9	7427.7	6569.0	6509.3	7739.8
57.5°	7878.6	7865.6	7540.6	6664.6	7077.4	7788.0	7982.1	7867.8	6984.6	6953.0	8067.7
60°	8051.9	8069.2	7956.3	7168.0	7544.9	8269.1	8467.6	8290.0	7483.0	7468.7	8315.1
62.5°	7877.9	7975.0	8051.2	7616.1	7943.3	8622.9	8820.0	8617.2	8003.0	8107.3	8488.4
65°	7531.2	7552.1	7811.7	7995.8	8135.3	8681.2	8784.0	8676.2	8437.4	8689.1	8480.5
67.5°	7081.0	7099.0	7403.2	8120.2	7887.9	8019.5	8091.5	8059.8	8302.9	8888.3	8090.0
70°	6652.4	6638.0	6959.5	7803.1	6866.7	6666.8	6726.5	6627.2	7164.4	8401.4	7324.1
72.5°	5818.1	5869.9	6215.1	6921.4	5437.0	5111.9	5242.1	4985.3	5510.3	7195.4	5944.7
75°	4557.4	4569.7	5145.7	5808.8	4101.5	3588.7	3764.9	3657.7	4220.9	6002.3	4105.1
77.5°	3155.7	3128.4	3747.6	4436.6	2924.9	2627.2	2630.0	2579.0	2947.2	4419.3	2789.0
80°	2004.3	1962.6	2346.0	2740.8	2010.1	2150.3	2079.9	2077.7	1918.8	2726.4	1686.5
82.5°	1083.1	1129.1	1482.2	1718.1	1442.0	1662.0	1523.2	1478.6	1316.8	1706.6	1078.8
85°	493.4	536.5	790.4	1168.7	1095.3	1107.5	740.0	873.1	1089.6	1385.9	576.1
87.5°	48.2	61.8	163.3	551.6	374.0	294.9	110.0	212.2	274.0	492.6	46.0
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°	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8
2.5°	3723.9	3686.5	3559.2	3454.2	3342.7	3257.9	3147.1	3073.0	3022.0	2945.0	2935.7
5°	3552.7	3461.4	3239.9	3014.1	2819.2	2672.5	2523.6	2386.9	2306.4	2281.2	2248.9
7.5°	3264.3	3110.4	2825.6	2566.7	2343.1	2124.4	1956.2	1836.8	1756.9	1710.2	1654.1
10°	3027.0	2848.7	2502.0	2184.9	2000.8	1864.8	1716.7	1588.7	1490.1	1406.0	1360.0
12.5°	2867.4	2666.0	2276.2	2018.7	1876.3	1731.8	1558.5	1414.6	1269.3	1173.7	1132.7
15°	2819.2	2606.3	2206.4	1936.0	1731.8	1542.6	1348.5	1160.8	1016.9	926.3	896.1
17.5°	2937.1	2679.7	2205.7	1826.0	1562.1	1336.2	1087.4	911.2	763.8	696.2	674.6
20°	3157.2	2820.6	2212.2	1717.4	1377.9	1060.1	791.1	646.5	576.1	547.3	536.5
22.5°	3464.3	3035.6	2231.6	1610.2	1176.6	814.1	592.6	519.2	494.1	489.0	486.9
25°	3842.6	3301.7	2297.1	1513.9	1006.8	621.4	495.5	462.4	448.0	443.0	442.3
27.5°	4190.6	3645.5	2376.2	1431.2	842.9	535.8	448.0	420.0	405.6	404.9	406.3
30°	4504.9	3933.2	2442.3	1338.4	718.5	476.1	417.1	389.1	375.4	374.7	379.0
32.5°	4776.8	4169.8	2491.2	1247.1	649.4	439.4	389.1	358.9	347.4	345.2	347.4
35°	5067.3	4405.7	2468.9	1175.9	609.9	409.2	368.2	338.7	325.1	318.6	318.6
37.5°	5398.9	4648.8	2430.8	1116.9	591.9	384.0	350.2	321.5	307.8	301.3	300.6
40°	5760.6	4891.8	2378.3	1064.4	573.9	368.9	338.0	307.8	291.3	284.8	283.4
42.5°	6079.9	5099.7	2335.2	1029.9	544.4	371.8	327.2	297.7	276.9	268.3	267.5
45°	6357.5	5309.0	2327.3	1009.7	520.0	367.5	324.3	289.8	265.4	256.0	254.6
47.5°	6574.7	5526.9	2372.6	998.2	493.4	344.5	343.0	284.8	255.3	245.2	243.8
50°	6839.4	5836.1	2476.1	974.5	468.9	322.9	362.5	284.1	247.4	234.5	230.9
52.5°	7191.8	6238.9	2616.4	932.1	433.7	302.8	345.9	284.1	238.0	225.1	220.8
55°	7724.7	6752.4	2753.7	872.4	384.0	276.2	312.1	275.4	224.4	212.9	210.0
57.5°	8077.8	7127.8	2841.5	789.7	322.2	256.7	269.0	261.8	210.7	198.5	198.5
60°	8095.8	7228.5	2799.8	685.4	283.4	238.8	233.7	263.9	198.5	185.5	184.1
62.5°	7888.7	6981.8	2582.6	591.9	262.5	219.3	211.4	231.6	186.3	173.3	171.2
65°	7565.0	6352.5	2205.7	547.3	251.0	202.1	190.6	189.9	173.3	161.1	158.2
67.5°	6970.3	5551.3	1812.3	521.4	245.2	182.7	171.9	168.3	158.2	148.2	146.7
70°	6093.6	4649.5	1453.5	510.6	242.4	162.5	153.9	149.6	141.0	133.0	132.3
72.5°	4740.8	3771.4	1199.6	503.4	240.9	143.8	134.5	128.7	123.7	116.5	116.5
75°	3405.3	2774.6	915.5	453.8	222.9	123.7	113.6	110.0	102.8	97.1	98.5
77.5°	2146.7	1868.4	602.7	333.7	172.6	99.2	90.6	88.5	82.7	74.8	79.8
80°	1449.9	1313.9	351.7	210.0	108.6	72.6	69.8	69.0	62.6	53.9	54.7
82.5°	986.7	968.0	182.7	119.4	62.6	42.4	41.0	42.4	35.2	28.8	28.8
85°	385.5	526.4	86.3	46.7	20.1	6.5	9.3	10.1	5.8	2.9	3.6
87.5°	7.2	53.9	2.2	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°	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8
2.5°	2921.3	2914.8	2925.6	2879.6	2888.9	2906.2	2914.8	2919.9	2991.1	2974.5	3019.8
5°	2279.1	2272.6	2314.3	2320.1	2341.6	2337.3	2358.2	2363.2	2389.1	2398.5	2461.7
7.5°	1657.7	1685.8	1733.2	1757.7	1794.3	1805.9	1795.1	1821.7	1767.7	1806.6	1818.1
10°	1331.9	1298.1	1278.0	1334.1	1341.3	1394.5	1372.9	1355.6	1387.3	1388.7	1418.9
12.5°	1109.0	1036.3	988.1	1004.0	1021.2	1044.2	1047.8	1082.4	1105.4	1127.0	1144.9
15°	869.5	844.3	800.4	778.9	803.3	812.7	835.0	863.7	888.2	894.7	919.1
17.5°	667.4	671.7	664.5	651.6	666.7	673.9	675.3	676.0	682.5	678.2	714.1
20°	537.2	552.3	570.3	573.2	578.2	581.8	575.3	550.9	551.6	566.7	578.2
22.5°	486.2	489.0	509.2	515.7	531.5	525.0	506.3	494.8	493.4	497.0	502.7
25°	445.9	450.2	464.6	474.7	486.9	475.4	461.7	450.9	449.5	453.1	458.8
27.5°	409.9	416.4	429.3	439.4	450.9	440.1	427.2	417.8	417.1	416.4	420.0
30°	381.2	388.4	397.7	409.2	417.1	407.8	395.5	390.5	389.8	388.4	389.8
32.5°	352.4	363.9	373.3	379.0	386.9	379.7	370.4	367.5	362.5	358.2	356.0
35°	320.0	332.3	346.6	353.8	361.7	354.6	348.1	335.9	327.2	326.5	327.9
37.5°	301.3	306.4	317.9	330.1	338.0	334.4	322.2	310.0	307.8	307.8	309.2
40°	284.8	287.0	292.0	307.8	322.2	311.4	296.3	292.7	292.7	292.0	292.7
42.5°	268.3	270.4	270.4	282.6	305.7	288.4	276.9	276.9	276.9	277.6	279.8
45°	253.2	253.9	253.2	261.8	283.4	269.0	261.1	263.2	264.7	266.1	267.5
47.5°	240.2	240.9	240.2	247.4	258.2	252.4	248.1	251.0	253.9	256.0	257.5
50°	228.7	228.0	229.4	233.7	238.8	240.2	237.3	241.6	243.1	246.0	249.6
52.5°	218.6	217.9	219.3	221.5	228.7	228.7	228.7	232.3	235.2	238.0	243.1
55°	207.1	207.8	210.0	212.9	222.2	220.8	221.5	224.4	227.3	231.6	234.5
57.5°	196.3	197.8	200.7	205.0	214.3	213.6	214.3	215.8	219.3	221.5	224.4
60°	184.1	187.0	190.6	193.5	202.8	202.1	205.7	208.6	210.7	210.7	212.2
62.5°	171.9	176.2	179.8	182.0	192.0	192.7	197.8	199.9	201.4	199.9	202.1
65°	159.7	166.1	167.6	170.4	180.5	181.2	187.0	192.0	190.6	189.1	192.7
67.5°	147.4	155.3	154.6	158.2	168.3	169.7	174.8	183.4	180.5	179.1	182.0
70°	133.8	139.5	140.2	142.4	156.1	153.9	161.8	169.7	167.6	168.3	168.3
72.5°	118.7	123.7	123.7	128.0	142.4	138.8	145.3	153.9	153.9	153.2	153.2
75°	100.7	103.6	106.4	112.9	128.0	123.7	128.0	135.9	137.4	135.9	135.9
77.5°	81.3	85.6	87.0	95.7	106.4	105.7	110.0	113.6	116.5	115.1	115.1
80°	57.5	61.8	67.6	77.0	83.4	85.6	87.7	90.6	92.1	92.1	93.5
82.5°	32.4	38.8	43.9	53.2	56.1	66.9	66.2	68.3	66.2	58.3	64.7
85°	7.2	13.7	19.4	24.5	28.0	38.8	41.0	46.0	38.1	35.2	35.2
87.5°	0.0	0.0	0.0	0.0	0.0	5.8	11.5	15.8	13.7	11.5	11.5
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°	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8	3503.8
2.5°	3057.9	3120.5	3196.0	3326.2	3417.5	3516.1	3615.3	3721.0	3749.1	3777.8
5°	2479.0	2602.0	2668.9	2843.6	3027.0	3260.0	3450.6	3659.2	3746.2	3766.3
7.5°	1877.8	1961.2	2136.7	2313.6	2540.9	2785.4	3077.4	3402.4	3503.8	3546.3
10°	1488.7	1602.3	1756.2	1946.1	2145.3	2408.5	2737.9	3117.6	3261.5	3285.2
12.5°	1267.2	1393.8	1561.3	1762.0	1950.4	2148.9	2481.2	2873.1	3027.0	3078.1
15°	1013.3	1166.5	1360.0	1571.4	1776.4	1993.6	2330.1	2772.4	2950.1	3009.8
17.5°	796.1	919.8	1129.1	1358.5	1601.6	1876.3	2298.5	2820.6	3039.2	3094.6
20°	609.1	697.6	873.8	1116.2	1401.0	1760.5	2306.4	3002.6	3264.3	3339.9
22.5°	526.4	571.7	678.9	909.8	1228.4	1659.9	2338.8	3252.1	3567.8	3693.7
25°	476.8	500.5	561.0	712.0	1063.7	1562.1	2412.8	3588.0	3992.2	4075.6
27.5°	434.4	451.6	489.0	597.6	914.1	1471.4	2499.1	3960.5	4388.4	4512.8
30°	394.1	417.1	452.4	530.8	818.4	1388.7	2607.7	4262.6	4722.1	4837.9
32.5°	363.2	386.2	418.6	484.0	737.2	1301.7	2672.5	4527.9	4994.7	5093.2
35°	338.0	357.4	391.2	446.6	675.3	1235.5	2659.5	4738.7	5258.6	5359.3
37.5°	320.0	336.6	370.4	411.4	628.6	1166.5	2653.0	5017.0	5580.1	5696.6
40°	303.5	320.8	351.7	388.4	581.8	1085.2	2656.6	5293.1	5922.4	6038.9
42.5°	290.5	310.0	335.1	381.9	533.6	1019.8	2656.6	5533.3	6220.2	6332.4
45°	279.8	300.6	325.1	381.2	495.5	970.2	2638.7	5739.8	6457.5	6553.1
47.5°	270.4	293.4	328.7	368.2	486.2	934.2	2622.8	5905.2	6651.0	6740.8
50°	263.9	291.3	349.5	353.1	489.0	923.4	2699.1	6113.7	6821.4	6899.1
52.5°	258.9	292.0	348.8	330.8	484.0	930.6	2858.0	6439.5	7058.0	7063.8
55°	248.8	291.3	330.8	305.7	463.2	942.8	3062.3	6912.7	7428.4	7432.7
57.5°	238.8	283.4	307.1	284.1	420.7	942.8	3308.2	7360.8	7875.0	7878.6
60°	228.7	294.9	269.7	265.4	365.3	925.6	3567.8	7557.8	8015.2	8051.9
62.5°	218.6	297.0	240.9	248.8	325.1	883.9	3761.3	7339.9	7825.4	7877.9
65°	207.1	239.5	222.2	231.6	304.2	814.1	3700.2	6940.8	7468.7	7531.2
67.5°	193.5	202.8	202.1	213.6	297.0	711.3	3378.0	6435.9	7084.6	7081.0
70°	176.9	182.0	184.1	196.3	283.4	631.4	2814.9	5780.7	6571.8	6652.4
72.5°	159.7	164.0	166.1	176.9	269.7	586.1	2184.9	4878.2	5692.3	5818.1
75°	141.0	143.8	146.7	156.1	255.3	519.2	1556.3	3723.9	4359.7	4557.4
77.5°	121.5	121.5	125.1	134.5	215.0	428.6	1044.2	2612.1	2953.7	3155.7
80°	98.5	99.2	97.8	107.9	158.2	293.4	593.3	1744.7	1965.5	2004.3
82.5°	75.5	73.4	74.1	79.1	117.9	199.9	316.4	1083.8	1104.7	1083.1
85°	47.5	47.5	46.0	51.8	75.5	104.3	172.6	663.8	518.5	493.4
87.5°	19.4	15.8	18.0	20.9	36.0	42.4	67.6	136.6	52.5	48.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)