

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: P458729

Luminaire Tested: **GALN-SA2D-735-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458729  
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-735-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 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: 12492 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

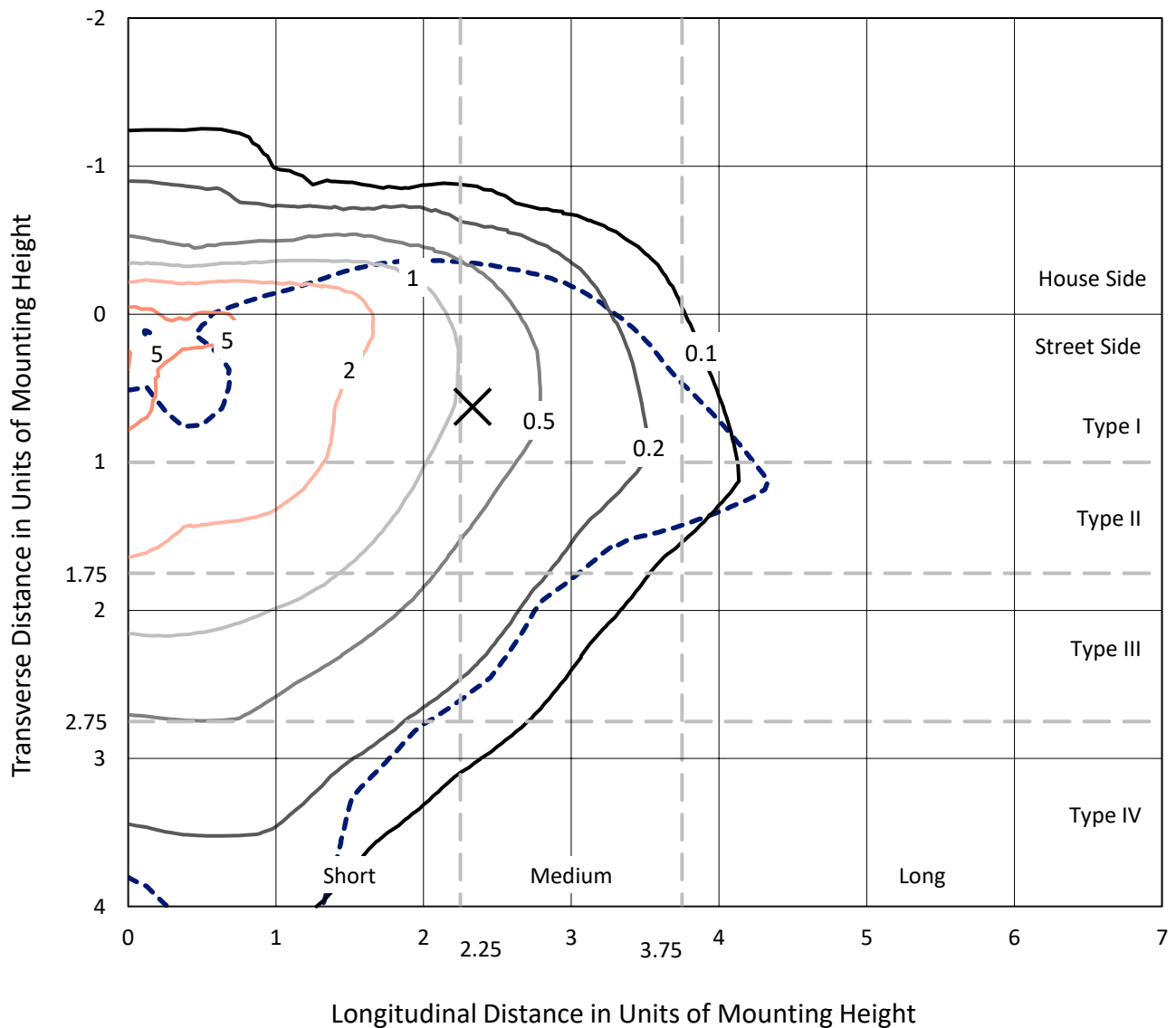
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

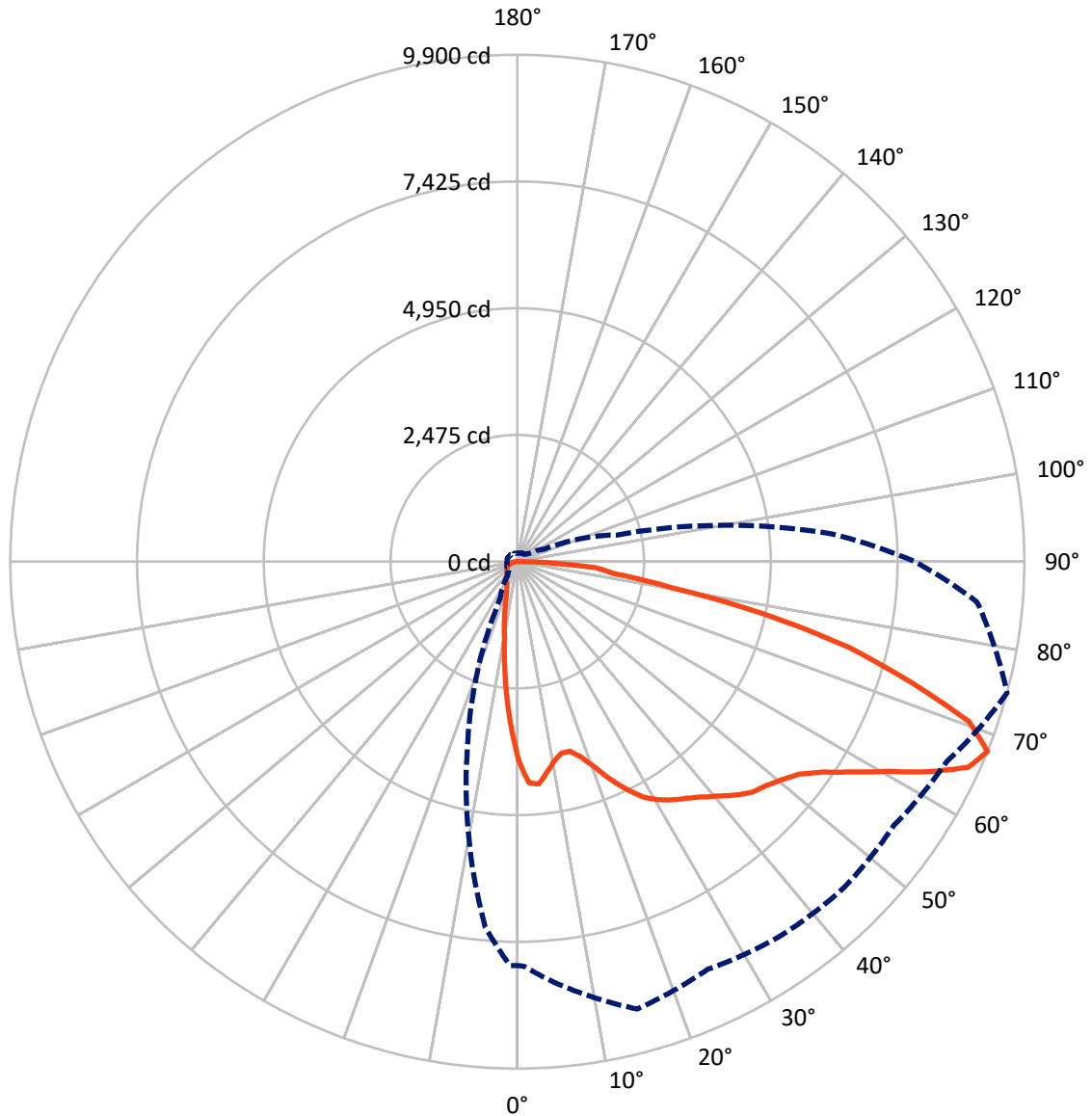
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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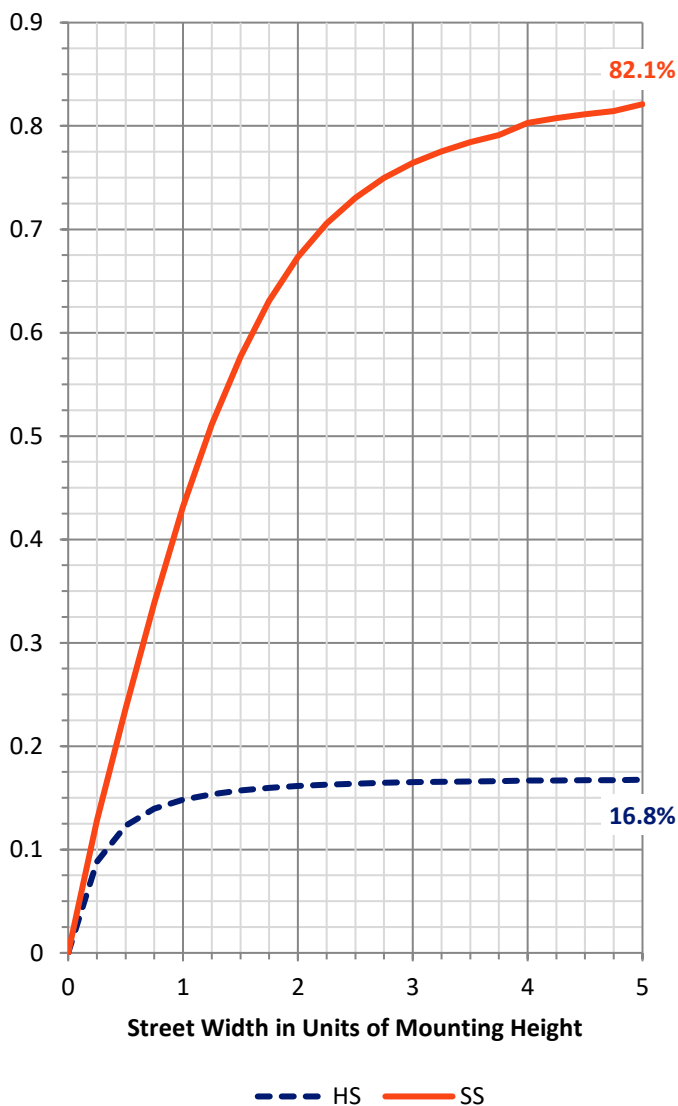
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2111.4	0.0	2111.4
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	10380.6	0.0	10380.6
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	12492.0	0.0	12492.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.0	2.4
10°-20°	617.4	4.9
20°-30°	888.4	7.1
30°-40°	1279.5	10.2
40°-50°	1797.4	14.4
50°-60°	2506.7	20.1
60°-70°	2980.3	23.9
70°-80°	1755.2	14.1
80°-90°	371.2	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°	12492.0	100.0
0°-180°	12492.0	100.0

**Coefficient of Utilization**



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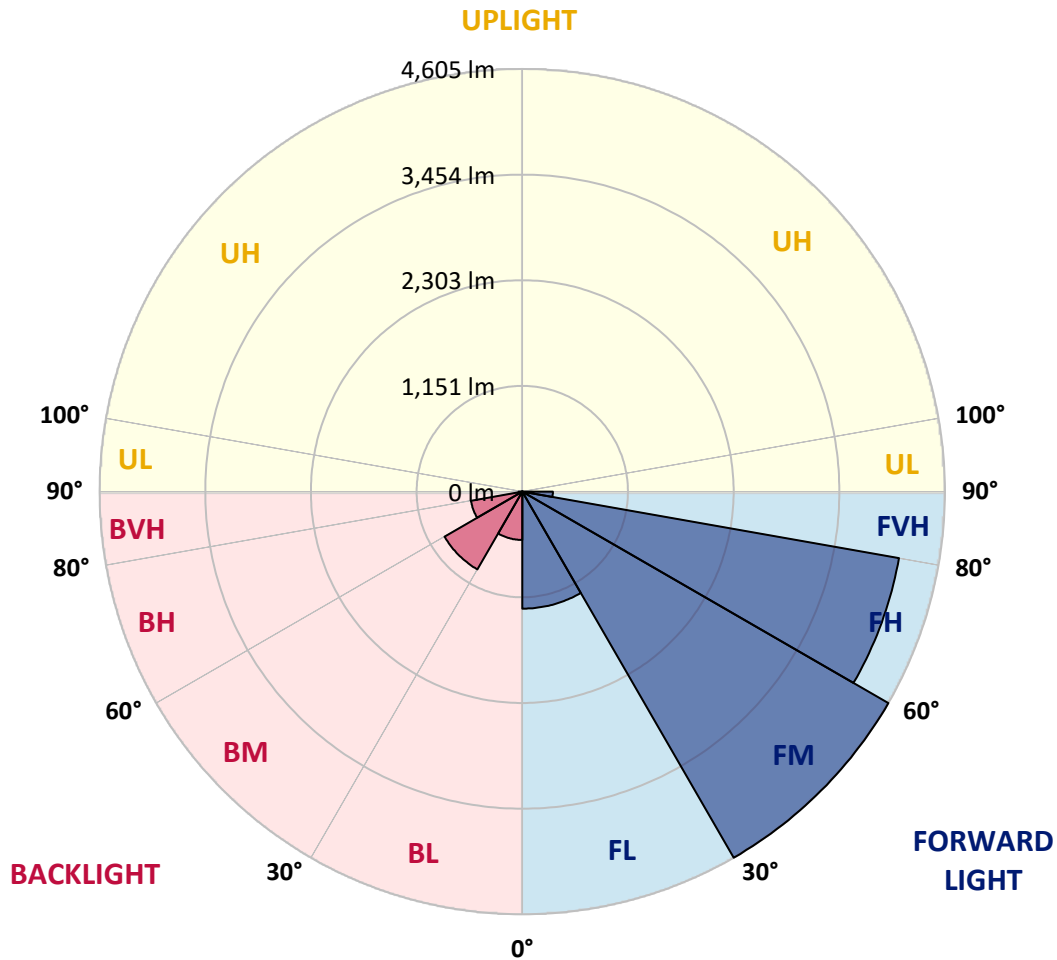
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1275.1	10.2			
FM	(30°-60°)	4605.3	36.9			
FH	(60°-80°)	4167.4	33.4			G2/5000
FVH	(80°-90°)	332.8	2.7			G3/500
BL	(0°-30°)	526.7	4.2	B2/1000		
BM	(30°-60°)	978.2	7.8	B1/1000		
BH	(60°-80°)	568.1	4.5	B2/1000		G2/1000
BVH	(80°-90°)	38.4	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°	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8
2.5°	4208.0	4213.6	4249.7	4354.6	4426.7	4453.1	4471.6	4437.1	4403.5	4321.8	4198.4
5°	4195.2	4228.0	4321.8	4557.3	4743.1	4823.2	4847.3	4743.9	4573.3	4363.4	4111.1
7.5°	3950.1	3994.1	4138.3	4533.2	4860.9	5048.3	5023.5	4836.8	4529.2	4155.1	3802.7
10°	3659.3	3708.1	3882.0	4359.4	4781.6	5039.5	5039.5	4812.0	4403.5	3958.9	3552.7
12.5°	3428.6	3479.8	3678.5	4180.8	4616.5	4860.9	4901.7	4706.3	4312.9	3834.7	3388.5
15°	3352.5	3402.1	3616.0	4072.6	4441.9	4590.9	4604.5	4540.4	4268.9	3843.5	3381.3
17.5°	3447.0	3511.1	3727.4	4104.7	4281.7	4290.5	4300.9	4351.4	4273.7	4004.5	3527.1
20°	3720.2	3789.0	4014.9	4208.0	4141.5	4050.2	4055.8	4185.6	4330.6	4270.5	3875.6
22.5°	4114.3	4174.4	4405.9	4389.8	4082.2	3894.0	3854.7	4035.8	4414.7	4602.1	4246.5
25°	4539.6	4610.1	4876.1	4659.8	4099.1	3801.1	3776.2	3947.7	4502.0	4912.1	4675.0
27.5°	5026.7	5095.6	5305.5	4932.2	4187.2	3793.9	3764.2	3939.6	4580.5	5198.9	5084.4
30°	5388.8	5452.1	5594.6	5161.3	4295.3	3841.9	3805.1	4002.9	4647.8	5395.2	5483.3
32.5°	5673.2	5738.8	5816.5	5303.9	4437.9	3929.2	3861.1	4118.3	4735.9	5545.0	5778.9
35°	5969.5	6047.3	6041.6	5430.4	4570.9	4030.2	3963.7	4284.9	4874.5	5675.6	6153.8
37.5°	6345.2	6376.5	6336.4	5544.2	4730.3	4212.0	4175.2	4532.4	5071.6	5833.4	6592.0
40°	6726.6	6789.0	6583.2	5682.0	4924.2	4554.1	4550.1	4898.5	5305.5	6018.4	7016.5
42.5°	7053.4	7106.3	6813.9	5802.1	5158.9	4971.4	5001.9	5389.6	5612.3	6233.1	7357.8
45°	7299.3	7346.6	7027.0	5918.3	5468.1	5453.7	5633.1	5915.9	5999.2	6426.2	7558.1
47.5°	7508.4	7554.1	7175.2	6094.5	5850.2	6029.6	6342.0	6464.6	6330.0	6536.7	7782.4
50°	7684.6	7698.2	7276.9	6304.4	6324.4	6735.4	7038.2	7117.5	6656.9	6695.3	7977.0
52.5°	7868.1	7850.5	7452.3	6568.7	6837.1	7405.1	7625.4	7707.9	6970.1	6890.8	8260.6
55°	8279.0	8295.8	7845.6	6902.0	7355.4	8062.7	8352.7	8273.4	7316.9	7250.5	8621.1
57.5°	8775.7	8761.3	8399.2	7423.5	7883.3	8674.8	8891.0	8763.7	7780.0	7744.7	8986.4
60°	8968.7	8988.0	8862.2	7984.2	8404.0	9210.7	9431.8	9233.9	8335.1	8319.1	9261.9
62.5°	8774.9	8883.0	8967.9	8483.3	8847.8	9604.8	9824.3	9598.4	8914.3	9030.4	9455.0
65°	8388.8	8412.0	8701.2	8906.3	9061.7	9669.7	9784.2	9664.1	9398.1	9678.5	9446.2
67.5°	7887.3	7907.3	8246.2	9044.8	8786.1	8932.7	9012.8	8977.6	9248.3	9900.4	9011.2
70°	7409.9	7393.8	7751.9	8691.6	7648.6	7425.9	7492.4	7381.8	7980.2	9358.1	8158.1
72.5°	6480.6	6538.3	6922.8	7709.5	6056.1	5694.0	5839.0	5553.0	6137.8	8014.7	6621.6
75°	5076.4	5090.0	5731.6	6470.2	4568.5	3997.3	4193.6	4074.2	4701.5	6685.7	4572.5
77.5°	3515.1	3484.6	4174.4	4941.8	3257.9	2926.3	2929.5	2872.6	3282.8	4922.6	3106.5
80°	2232.6	2186.1	2613.1	3052.9	2239.0	2395.2	2316.7	2314.3	2137.2	3036.8	1878.5
82.5°	1206.4	1257.7	1651.0	1913.7	1606.1	1851.3	1696.7	1647.0	1466.8	1900.9	1201.6
85°	549.5	597.6	880.4	1301.7	1220.0	1233.6	824.3	972.5	1213.6	1543.7	641.7
87.5°	53.7	68.9	181.8	614.4	416.6	328.4	122.6	236.3	305.2	548.7	51.3
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°	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8
2.5°	4147.9	4106.3	3964.5	3847.5	3723.4	3628.8	3505.5	3423.0	3366.1	3280.4	3270.0
5°	3957.3	3855.5	3608.8	3357.3	3140.2	2976.8	2810.9	2658.7	2569.0	2541.0	2504.9
7.5°	3636.0	3464.6	3147.4	2859.0	2609.9	2366.4	2178.9	2045.9	1957.0	1904.9	1842.5
10°	3371.7	3173.0	2786.9	2433.6	2228.6	2077.2	1912.1	1769.6	1659.8	1566.1	1514.8
12.5°	3193.9	2969.6	2535.4	2248.6	2090.0	1929.0	1735.9	1575.7	1413.9	1307.3	1261.7
15°	3140.2	2903.1	2457.7	2156.5	1929.0	1718.3	1502.0	1292.9	1132.7	1031.8	998.1
17.5°	3271.6	2984.8	2456.9	2033.9	1739.9	1488.4	1211.2	1015.0	850.7	775.4	751.4
20°	3516.7	3141.8	2464.1	1912.9	1534.8	1180.8	881.2	720.2	641.7	609.6	597.6
22.5°	3858.7	3381.3	2485.7	1793.6	1310.5	906.8	660.1	578.4	550.3	544.7	542.3
25°	4280.1	3677.7	2558.6	1686.2	1121.5	692.1	551.9	515.1	499.1	493.5	492.7
27.5°	4667.8	4060.6	2646.7	1594.1	938.9	596.8	499.1	467.8	451.8	451.0	452.6
30°	5017.9	4381.0	2720.4	1490.8	800.3	530.3	464.6	433.4	418.2	417.4	422.2
32.5°	5320.7	4644.6	2774.9	1389.0	723.4	489.5	433.4	399.7	386.9	384.5	386.9
35°	5644.3	4907.3	2750.1	1309.7	679.3	455.8	410.1	377.3	362.1	354.9	354.9
37.5°	6013.6	5178.1	2707.6	1244.1	659.3	427.8	390.1	358.1	342.9	335.6	334.8
40°	6416.5	5448.9	2649.1	1185.6	639.3	410.9	376.5	342.9	324.4	317.2	315.6
42.5°	6772.2	5680.4	2601.1	1147.1	606.4	414.2	364.5	331.6	308.4	298.8	298.0
45°	7081.4	5913.5	2592.3	1124.7	579.2	409.3	361.3	322.8	295.6	285.2	283.6
47.5°	7323.4	6156.2	2642.7	1111.9	549.5	383.7	382.1	317.2	284.4	273.2	271.6
50°	7618.1	6500.7	2758.1	1085.4	522.3	359.7	403.7	316.4	275.6	261.1	257.1
52.5°	8010.7	6949.3	2914.3	1038.2	483.0	337.2	385.3	316.4	265.2	250.7	245.9
55°	8604.3	7521.2	3067.3	971.7	427.8	307.6	347.7	306.8	249.9	237.1	233.9
57.5°	8997.6	7939.4	3165.0	879.6	358.9	286.0	299.6	291.6	234.7	221.1	221.1
60°	9017.6	8051.5	3118.6	763.4	315.6	266.0	260.3	294.0	221.1	206.7	205.1
62.5°	8786.9	7776.8	2876.6	659.3	292.4	244.3	235.5	257.9	207.5	193.1	190.7
65°	8426.4	7075.8	2456.9	609.6	279.6	225.1	212.3	211.5	193.1	179.4	176.2
67.5°	7763.9	6183.4	2018.7	580.8	273.2	203.5	191.5	187.4	176.2	165.0	163.4
70°	6787.4	5178.9	1619.0	568.8	270.0	181.0	171.4	166.6	157.0	148.2	147.4
72.5°	5280.6	4200.8	1336.2	560.7	268.4	160.2	149.8	143.4	137.8	129.8	129.8
75°	3793.1	3090.5	1019.8	505.5	248.3	137.8	126.6	122.6	114.6	108.1	109.7
77.5°	2391.2	2081.2	671.3	371.7	192.3	110.5	100.9	98.5	92.1	83.3	88.9
80°	1615.0	1463.5	391.7	233.9	121.0	80.9	77.7	76.9	69.7	60.1	60.9
82.5°	1099.1	1078.2	203.5	133.0	69.7	47.3	45.7	47.3	39.3	32.0	32.0
85°	429.4	586.4	96.1	52.1	22.4	7.2	10.4	11.2	6.4	3.2	4.0
87.5°	8.0	60.1	2.4	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°	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8
2.5°	3253.9	3246.7	3258.7	3207.5	3217.9	3237.1	3246.7	3252.3	3331.6	3313.2	3363.7
5°	2538.6	2531.4	2577.8	2584.2	2608.3	2603.5	2626.7	2632.3	2661.1	2671.6	2742.1
7.5°	1846.5	1877.7	1930.6	1957.8	1998.7	2011.5	1999.5	2029.1	1969.0	2012.3	2025.1
10°	1483.6	1445.9	1423.5	1486.0	1494.0	1553.3	1529.2	1510.0	1545.3	1546.9	1580.5
12.5°	1235.2	1154.3	1100.7	1118.3	1137.5	1163.1	1167.2	1205.6	1231.2	1255.3	1275.3
15°	968.5	940.5	891.6	867.6	894.8	905.2	930.0	962.1	989.3	996.5	1023.8
17.5°	743.4	748.2	740.2	725.8	742.6	750.6	752.2	753.0	760.2	755.4	795.5
20°	598.4	615.2	635.2	638.5	644.1	648.1	640.9	613.6	614.4	631.2	644.1
22.5°	541.5	544.7	567.2	574.4	592.0	584.8	564.0	551.1	549.5	553.5	559.9
25°	496.7	501.5	517.5	528.7	542.3	529.5	514.3	502.3	500.7	504.7	511.1
27.5°	456.6	463.8	478.2	489.5	502.3	490.3	475.8	465.4	464.6	463.8	467.8
30°	424.6	432.6	443.0	455.8	464.6	454.2	440.6	435.0	434.2	432.6	434.2
32.5°	392.5	405.3	415.8	422.2	431.0	423.0	412.5	409.3	403.7	398.9	396.5
35°	356.5	370.1	386.1	394.1	402.9	394.9	387.7	374.1	364.5	363.7	365.3
37.5°	335.6	341.3	354.1	367.7	376.5	372.5	358.9	345.3	342.9	342.9	344.5
40°	317.2	319.6	325.2	342.9	358.9	346.9	330.0	326.0	326.0	325.2	326.0
42.5°	298.8	301.2	301.2	314.8	340.5	321.2	308.4	308.4	308.4	309.2	311.6
45°	282.0	282.8	282.0	291.6	315.6	299.6	290.8	293.2	294.8	296.4	298.0
47.5°	267.6	268.4	267.6	275.6	287.6	281.2	276.4	279.6	282.8	285.2	286.8
50°	254.7	253.9	255.5	260.3	266.0	267.6	264.4	269.2	270.8	274.0	278.0
52.5°	243.5	242.7	244.3	246.7	254.7	254.7	254.7	258.7	261.9	265.2	270.8
55°	230.7	231.5	233.9	237.1	247.5	245.9	246.7	249.9	253.1	257.9	261.1
57.5°	218.7	220.3	223.5	228.3	238.7	237.9	238.7	240.3	244.3	246.7	249.9
60°	205.1	208.3	212.3	215.5	225.9	225.1	229.1	232.3	234.7	234.7	236.3
62.5°	191.5	196.3	200.3	202.7	213.9	214.7	220.3	222.7	224.3	222.7	225.1
65°	177.8	185.0	186.6	189.9	201.1	201.9	208.3	213.9	212.3	210.7	214.7
67.5°	164.2	173.0	172.2	176.2	187.4	189.1	194.7	204.3	201.1	199.5	202.7
70°	149.0	155.4	156.2	158.6	173.8	171.4	180.2	189.1	186.6	187.4	187.4
72.5°	132.2	137.8	137.8	142.6	158.6	154.6	161.8	171.4	171.4	170.6	170.6
75°	112.1	115.4	118.6	125.8	142.6	137.8	142.6	151.4	153.0	151.4	151.4
77.5°	90.5	95.3	96.9	106.5	118.6	117.8	122.6	126.6	129.8	128.2	128.2
80°	64.1	68.9	75.3	85.7	92.9	95.3	97.7	100.9	102.5	102.5	104.1
82.5°	36.0	43.3	48.9	59.3	62.5	74.5	73.7	76.1	73.7	64.9	72.1
85°	8.0	15.2	21.6	27.2	31.2	43.3	45.7	51.3	42.5	39.3	39.3
87.5°	0.0	0.0	0.0	0.0	0.0	6.4	12.8	17.6	15.2	12.8	12.8
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°	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8	3902.8
2.5°	3406.1	3475.8	3559.9	3704.9	3806.7	3916.4	4027.0	4144.7	4176.0	4208.0
5°	2761.3	2898.3	2972.8	3167.4	3371.7	3631.2	3843.5	4075.8	4172.8	4195.2
7.5°	2091.6	2184.5	2380.0	2577.0	2830.2	3102.5	3427.8	3789.8	3902.8	3950.1
10°	1658.2	1784.8	1956.2	2167.7	2389.6	2682.8	3049.7	3472.6	3632.8	3659.3
12.5°	1411.5	1552.5	1739.1	1962.6	2172.5	2393.6	2763.7	3200.3	3371.7	3428.6
15°	1128.7	1299.3	1514.8	1750.3	1978.6	2220.6	2595.5	3088.1	3286.0	3352.5
17.5°	886.8	1024.6	1257.7	1513.2	1784.0	2090.0	2560.2	3141.8	3385.3	3447.0
20°	678.5	777.0	973.3	1243.3	1560.5	1961.0	2569.0	3344.5	3636.0	3720.2
22.5°	586.4	636.8	756.2	1013.3	1368.2	1848.9	2605.1	3622.4	3974.1	4114.3
25°	531.1	557.5	624.8	793.1	1184.8	1739.9	2687.6	3996.5	4446.7	4539.6
27.5°	483.8	503.1	544.7	665.7	1018.2	1639.0	2783.7	4411.5	4888.1	5026.7
30°	439.0	464.6	503.9	591.2	911.6	1546.9	2904.7	4747.9	5259.8	5388.8
32.5°	404.5	430.2	466.2	539.1	821.1	1449.9	2976.8	5043.5	5563.4	5673.2
35°	376.5	398.1	435.8	497.5	752.2	1376.2	2962.3	5278.2	5857.4	5969.5
37.5°	356.5	374.9	412.5	458.2	700.1	1299.3	2955.1	5588.2	6215.5	6345.2
40°	338.1	357.3	391.7	432.6	648.1	1208.8	2959.1	5895.9	6596.8	6726.6
42.5°	323.6	345.3	373.3	425.4	594.4	1135.9	2959.1	6163.4	6928.4	7053.4
45°	311.6	334.8	362.1	424.6	551.9	1080.6	2939.1	6393.3	7192.8	7299.3
47.5°	301.2	326.8	366.1	410.1	541.5	1040.6	2921.5	6577.6	7408.3	7508.4
50°	294.0	324.4	389.3	393.3	544.7	1028.6	3006.4	6809.9	7598.1	7684.6
52.5°	288.4	325.2	388.5	368.5	539.1	1036.6	3183.4	7172.8	7861.7	7868.1
55°	277.2	324.4	368.5	340.5	515.9	1050.2	3410.9	7699.9	8274.2	8279.0
57.5°	266.0	315.6	342.1	316.4	468.6	1050.2	3684.9	8198.9	8771.7	8775.7
60°	254.7	328.4	300.4	295.6	406.9	1031.0	3974.1	8418.4	8927.9	8968.7
62.5°	243.5	330.8	268.4	277.2	362.1	984.5	4189.6	8175.7	8716.4	8774.9
65°	230.7	266.8	247.5	257.9	338.9	906.8	4121.5	7731.1	8319.1	8388.8
67.5°	215.5	225.9	225.1	237.9	330.8	792.3	3762.6	7168.7	7891.3	7887.3
70°	197.1	202.7	205.1	218.7	315.6	703.3	3135.4	6439.0	7320.1	7409.9
72.5°	177.8	182.6	185.0	197.1	300.4	652.9	2433.6	5433.6	6340.4	6480.6
75°	157.0	160.2	163.4	173.8	284.4	578.4	1733.5	4147.9	4856.1	5076.4
77.5°	135.4	135.4	139.4	149.8	239.5	477.4	1163.1	2909.5	3290.0	3515.1
80°	109.7	110.5	108.9	120.2	176.2	326.8	660.9	1943.4	2189.3	2232.6
82.5°	84.1	81.7	82.5	88.1	131.4	222.7	352.5	1207.2	1230.4	1206.4
85°	52.9	52.9	51.3	57.7	84.1	116.2	192.3	739.4	577.6	549.5
87.5°	21.6	17.6	20.0	23.2	40.1	47.3	75.3	152.2	58.5	53.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)