

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: P452900

Luminaire Tested: **GALN-SA3D-827-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452900  
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-SA3D-827-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 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: 14633 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

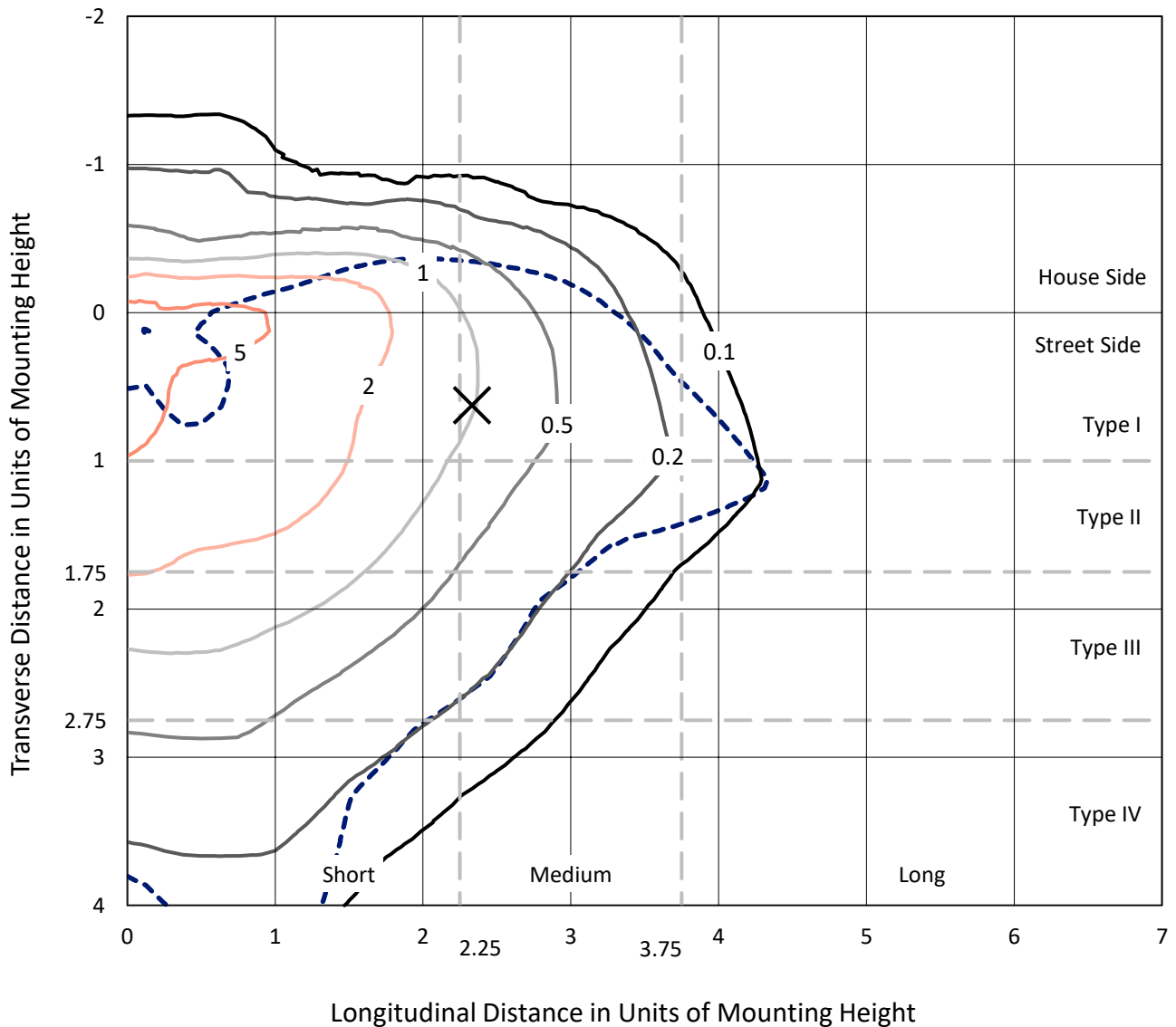
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

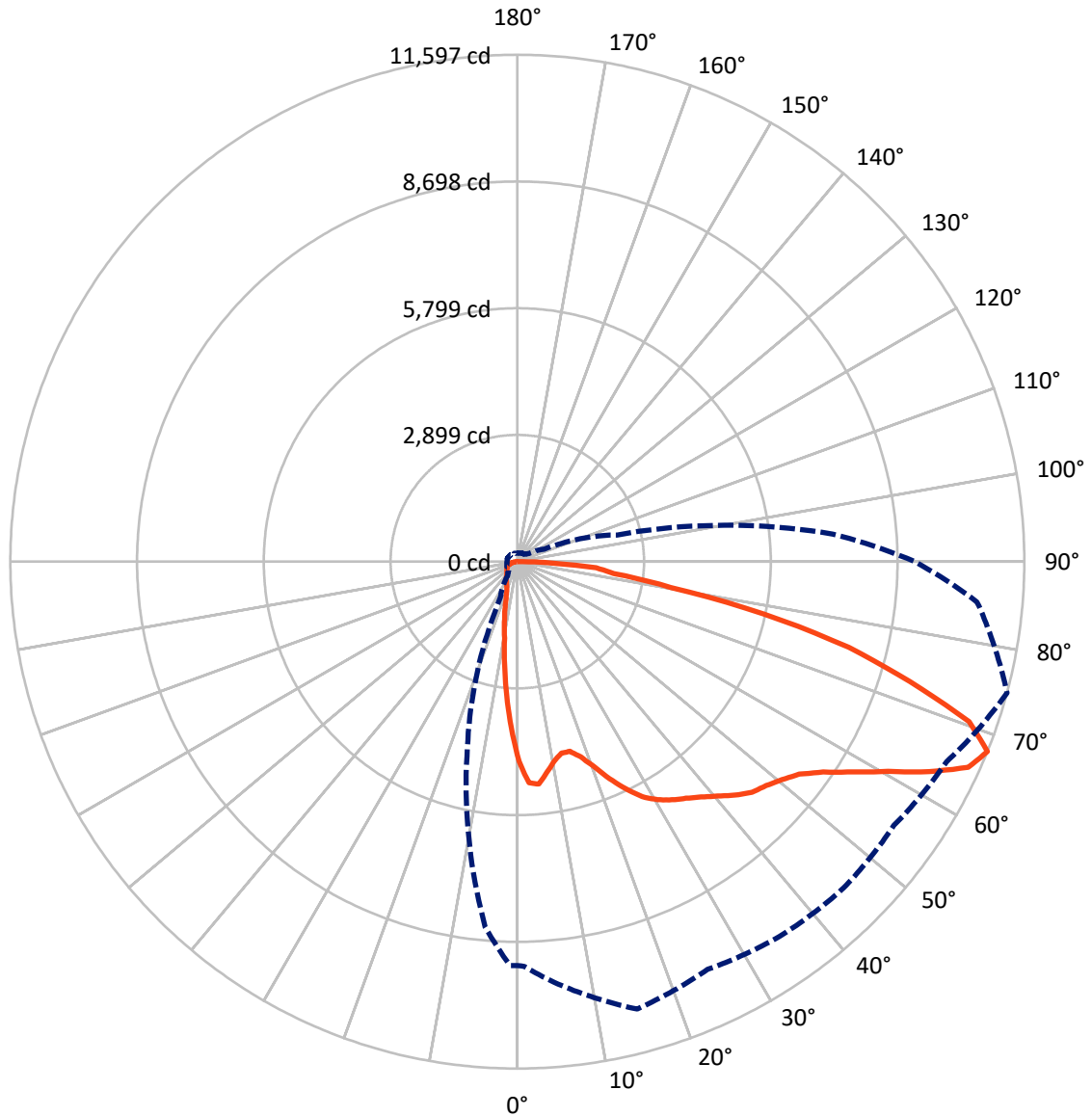
× Max cd  
 - - - 1/2 Max cd



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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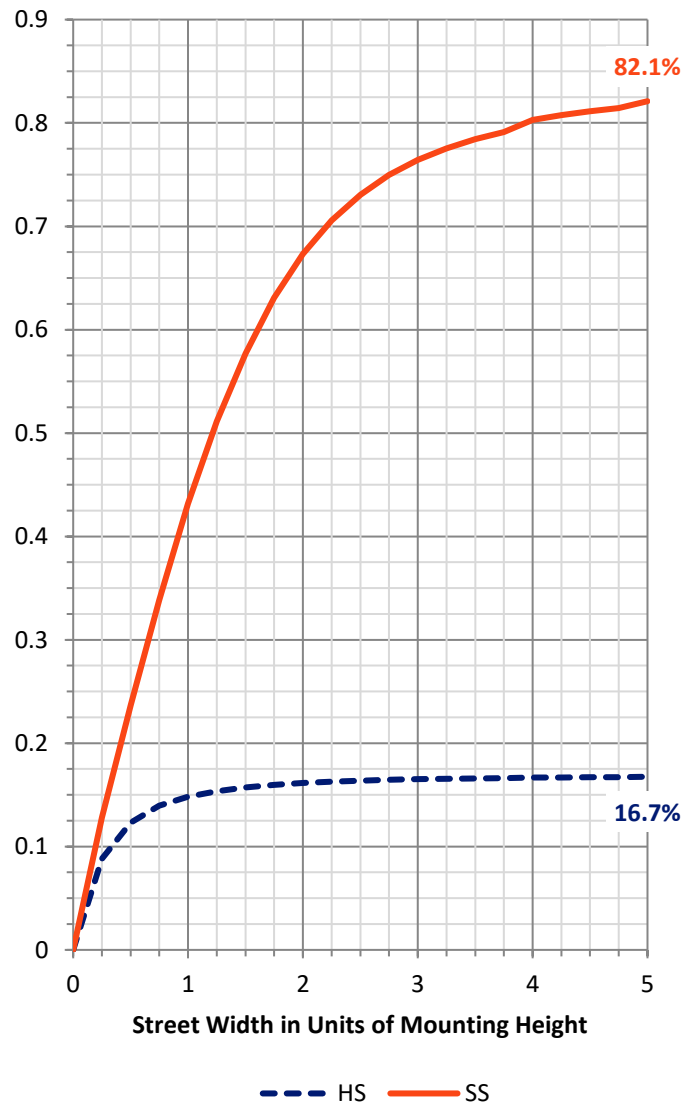
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2473.3	0.0	2473.3
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	12159.7	0.0	12159.7
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	14633.0	0.0	14633.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.8	2.4
10°-20°	723.2	4.9
20°-30°	1040.6	7.1
30°-40°	1498.8	10.2
40°-50°	2105.4	14.4
50°-60°	2936.3	20.1
60°-70°	3491.1	23.9
70°-80°	2056.1	14.1
80°-90°	434.8	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°	14633.0	100.0
0°-180°	14633.0	100.0



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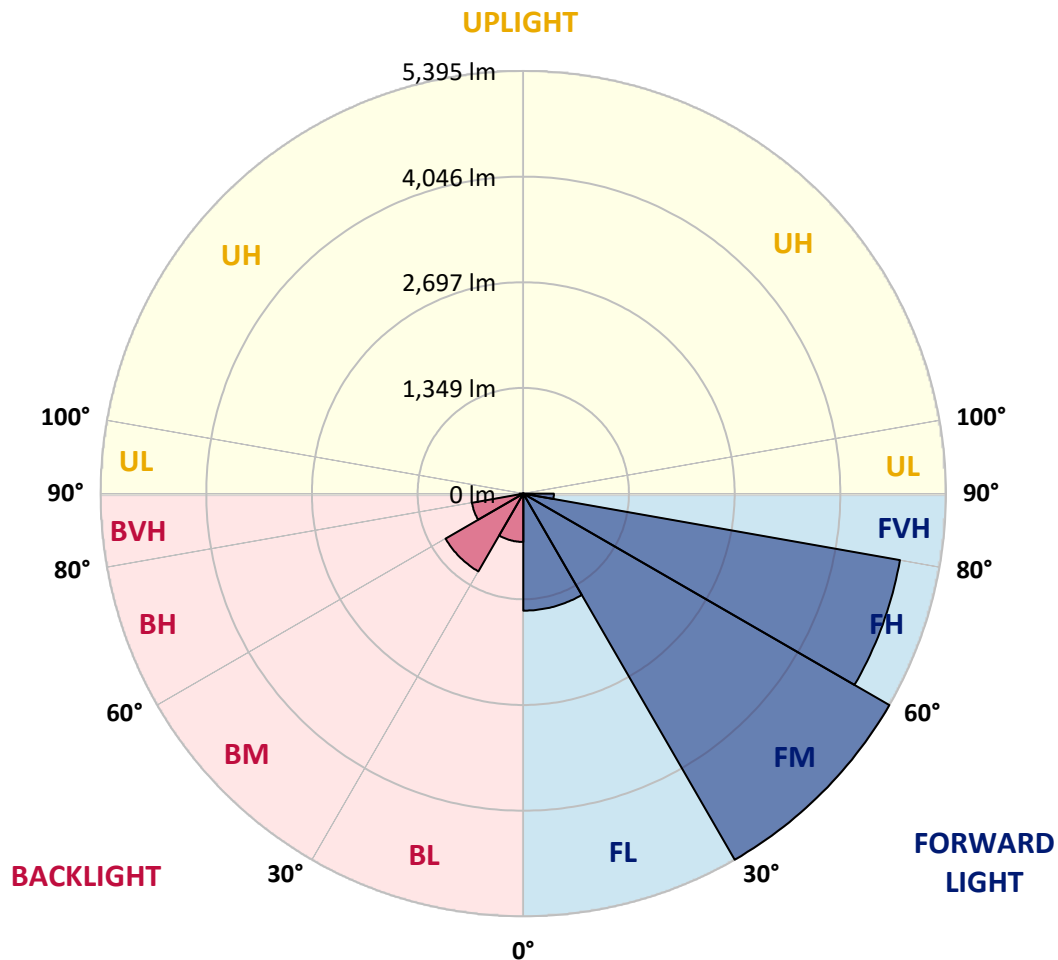
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1493.6	10.2			
FM	(30°-60°)	5394.6	36.9			
FH	(60°-80°)	4881.6	33.4			G2/5000
FVH	(80°-90°)	389.8	2.7			G3/500
BL	(0°-30°)	616.9	4.2	B2/1000		
BM	(30°-60°)	1145.9	7.8	B2/2500		
BH	(60°-80°)	665.5	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°	4571.7	4571.7	4571.7	4571.7	4571.7	4571.7	4571.7	4571.7	4571.7	4571.7	4571.7
2.5°	4929.2	4935.8	4978.0	5100.9	5185.4	5216.3	5237.9	5197.6	5158.2	5062.5	4918.0
5°	4914.2	4952.7	5062.5	5338.3	5556.0	5649.9	5678.0	5557.0	5357.1	5111.3	4815.7
7.5°	4627.1	4678.7	4847.6	5310.2	5694.0	5913.6	5884.5	5665.8	5305.5	4867.3	4454.4
10°	4286.4	4343.7	4547.3	5106.6	5601.1	5903.2	5903.2	5636.7	5158.2	4637.4	4161.6
12.5°	4016.2	4076.2	4309.0	4897.3	5407.8	5694.0	5741.8	5512.9	5052.1	4491.9	3969.3
15°	3927.0	3985.2	4235.8	4770.6	5203.2	5377.7	5393.7	5318.6	5000.5	4502.3	3960.8
17.5°	4037.8	4112.8	4366.2	4808.2	5015.5	5025.9	5038.1	5097.2	5006.2	4690.9	4131.6
20°	4357.7	4438.4	4703.1	4929.2	4851.3	4744.4	4750.9	4902.9	5072.8	5002.4	4539.8
22.5°	4819.4	4889.8	5161.0	5142.2	4781.9	4561.4	4515.4	4727.5	5171.3	5390.9	4974.3
25°	5317.7	5400.3	5711.8	5458.4	4801.6	4452.5	4423.4	4624.2	5273.6	5754.0	5476.3
27.5°	5888.2	5968.9	6214.8	5777.5	4904.8	4444.1	4409.4	4614.9	5365.5	6090.0	5955.8
30°	6312.4	6386.5	6553.5	6045.9	5031.5	4500.4	4457.2	4689.0	5444.4	6319.9	6423.1
32.5°	6645.5	6722.4	6813.4	6212.9	5198.5	4602.7	4522.9	4824.1	5547.6	6495.3	6769.3
35°	6992.7	7083.7	7077.1	6361.2	5354.3	4720.9	4643.0	5019.3	5709.9	6648.3	7208.5
37.5°	7432.8	7469.4	7422.4	6494.4	5541.0	4933.9	4890.7	5309.2	5940.8	6833.1	7721.8
40°	7879.4	7952.6	7711.5	6655.8	5768.1	5334.6	5329.9	5738.1	6214.8	7049.9	8219.1
42.5°	8262.3	8324.2	7981.7	6796.5	6043.0	5823.5	5859.1	6313.3	6574.2	7301.4	8618.8
45°	8550.3	8605.7	8231.3	6932.6	6405.3	6388.4	6598.6	6929.8	7027.4	7527.5	8853.4
47.5°	8795.3	8848.7	8404.9	7139.1	6852.9	7063.0	7429.0	7572.6	7414.9	7657.0	9116.2
50°	9001.7	9017.7	8524.1	7384.9	7408.4	7889.7	8244.4	8337.3	7797.8	7842.8	9344.2
52.5°	9216.6	9195.9	8729.6	7694.6	8008.9	8674.2	8932.3	9028.9	8164.7	8071.8	9676.4
55°	9698.0	9717.7	9190.3	8084.9	8616.0	9444.6	9784.3	9691.4	8571.0	8493.1	10098.6
57.5°	10279.7	10262.9	9838.7	8695.8	9234.4	10161.5	10414.9	10265.7	9113.4	9072.1	10526.5
60°	10505.9	10528.4	10381.1	9352.6	9844.3	10789.3	11048.3	10816.5	9763.6	9744.9	10849.3
62.5°	10278.8	10405.5	10505.0	9937.2	10364.2	11251.0	11508.1	11243.4	10442.1	10578.1	11075.5
65°	9826.5	9853.7	10192.5	10432.7	10614.7	11327.0	11461.1	11320.4	11008.9	11337.3	11065.2
67.5°	9239.1	9262.6	9659.5	10595.0	10291.9	10463.7	10557.5	10516.2	10833.4	11597.2	10555.6
70°	8679.8	8661.1	9080.5	10181.2	8959.5	8698.6	8776.5	8647.0	9348.0	10961.9	9556.3
72.5°	7591.3	7658.9	8109.3	9030.8	7094.0	6669.9	6839.7	6504.7	7189.7	9388.3	7756.5
75°	5946.4	5962.3	6714.0	7579.1	5351.5	4682.4	4912.3	4772.5	5507.2	7831.6	5356.2
77.5°	4117.5	4081.9	4889.8	5788.7	3816.3	3427.8	3431.6	3365.0	3845.4	5766.2	3639.0
80°	2615.2	2560.8	3060.9	3576.1	2622.7	2805.7	2713.7	2710.9	2503.5	3557.3	2200.5
82.5°	1413.2	1473.2	1934.0	2241.7	1881.4	2168.6	1987.4	1929.3	1718.1	2226.7	1407.5
85°	643.7	700.0	1031.3	1524.8	1429.1	1445.1	965.6	1139.2	1421.6	1808.2	751.6
87.5°	62.9	80.7	213.0	719.7	487.9	384.7	143.6	276.8	357.5	642.8	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°	4571.7	4571.7	4571.7	4571.7	4571.7	4571.7	4571.7	4571.7	4571.7	4571.7	4571.7
2.5°	4858.8	4810.0	4643.9	4506.9	4361.5	4250.8	4106.3	4009.6	3943.0	3842.6	3830.4
5°	4635.5	4516.3	4227.3	3932.7	3678.4	3487.0	3292.7	3114.4	3009.3	2976.5	2934.3
7.5°	4259.2	4058.4	3686.8	3349.0	3057.2	2771.9	2552.3	2396.6	2292.4	2231.4	2158.2
10°	3949.6	3716.8	3264.6	2850.7	2610.5	2433.2	2239.9	2072.8	1944.3	1834.5	1774.4
12.5°	3741.2	3478.5	2969.9	2634.0	2448.2	2259.6	2033.4	1845.8	1656.2	1531.4	1477.9
15°	3678.4	3400.6	2878.9	2526.1	2259.6	2012.8	1759.4	1514.5	1326.8	1208.6	1169.2
17.5°	3832.3	3496.3	2878.0	2382.5	2038.1	1743.5	1418.8	1188.9	996.5	908.3	880.2
20°	4119.4	3680.3	2886.4	2240.8	1797.9	1383.1	1032.2	843.6	751.6	714.1	700.0
22.5°	4520.1	3960.8	2911.7	2101.0	1535.2	1062.2	773.2	677.5	644.7	638.1	635.3
25°	5013.7	4308.0	2997.1	1975.3	1313.7	810.7	646.5	603.4	584.6	578.0	577.1
27.5°	5467.8	4756.6	3100.3	1867.3	1099.8	699.1	584.6	548.0	529.2	528.3	530.2
30°	5877.9	5131.9	3186.7	1746.3	937.4	621.2	544.2	507.7	489.8	488.9	494.5
32.5°	6232.6	5440.6	3250.5	1627.1	847.3	573.3	507.7	468.2	453.2	450.4	453.2
35°	6611.7	5748.4	3221.4	1534.2	795.7	533.9	480.4	442.0	424.1	415.7	415.7
37.5°	7044.3	6065.6	3171.7	1457.3	772.3	501.1	457.0	419.4	401.6	393.2	392.2
40°	7516.3	6382.7	3103.2	1388.8	748.8	481.4	441.0	401.6	380.0	371.6	369.7
42.5°	7932.9	6653.9	3046.9	1343.7	710.3	485.1	427.0	388.5	361.3	350.0	349.1
45°	8295.1	6927.0	3036.5	1317.5	678.4	479.5	423.2	378.2	346.3	334.1	332.2
47.5°	8578.5	7211.3	3095.7	1302.4	643.7	449.5	447.6	371.6	333.1	320.0	318.1
50°	8923.8	7614.8	3230.8	1271.5	611.8	421.3	472.9	370.7	322.8	305.9	301.2
52.5°	9383.6	8140.3	3413.8	1216.1	565.8	395.1	451.4	370.7	310.6	293.7	288.1
55°	10078.9	8810.3	3593.0	1138.2	501.1	360.3	407.2	359.4	292.8	277.8	274.0
57.5°	10539.7	9300.1	3707.5	1030.3	420.4	335.0	350.9	341.6	274.9	259.0	259.0
60°	10563.1	9431.5	3653.0	894.3	369.7	311.5	305.0	344.4	259.0	242.1	240.2
62.5°	10292.9	9109.6	3369.7	772.3	342.5	286.2	275.9	302.2	243.0	226.1	223.3
65°	9870.6	8288.5	2878.0	714.1	327.5	263.7	248.7	247.7	226.1	210.2	206.4
67.5°	9094.6	7243.2	2364.7	680.3	320.0	238.3	224.3	219.6	206.4	193.3	191.4
70°	7950.7	6066.5	1896.4	666.2	316.2	212.1	200.8	195.2	183.9	173.6	172.7
72.5°	6185.7	4920.8	1565.2	656.9	314.4	187.7	175.5	168.0	161.4	152.0	152.0
75°	4443.1	3620.2	1194.5	592.1	290.9	161.4	148.3	143.6	134.2	126.7	128.6
77.5°	2801.0	2437.9	786.3	435.4	225.2	129.5	118.2	115.4	107.9	97.6	104.2
80°	1891.7	1714.4	458.9	274.0	141.7	94.8	91.0	90.1	81.6	70.4	71.3
82.5°	1287.4	1263.0	238.3	155.8	81.6	55.4	53.5	55.4	46.0	37.5	37.5
85°	503.0	686.9	112.6	61.0	26.3	8.4	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°	4571.7	4571.7	4571.7	4571.7	4571.7	4571.7	4571.7	4571.7	4571.7	4571.7	4571.7
2.5°	3811.6	3803.2	3817.3	3757.2	3769.4	3791.9	3803.2	3809.7	3902.6	3881.1	3940.2
5°	2973.7	2965.2	3019.6	3027.2	3055.3	3049.7	3076.9	3083.5	3117.2	3129.4	3212.0
7.5°	2162.9	2199.5	2261.5	2293.4	2341.2	2356.2	2342.1	2376.9	2306.5	2357.2	2372.2
10°	1737.8	1693.7	1667.5	1740.7	1750.0	1819.5	1791.3	1768.8	1810.1	1812.0	1851.4
12.5°	1447.0	1352.2	1289.3	1310.0	1332.5	1362.5	1367.2	1412.2	1442.3	1470.4	1493.9
15°	1134.5	1101.6	1044.4	1016.2	1048.1	1060.3	1089.4	1127.0	1158.9	1167.3	1199.2
17.5°	870.8	876.4	867.0	850.2	869.9	879.2	881.1	882.1	890.5	884.9	931.8
20°	701.0	720.7	744.1	747.9	754.4	759.1	750.7	718.8	719.7	739.4	754.4
22.5°	634.3	638.1	664.4	672.8	693.4	685.0	660.6	645.6	643.7	648.4	655.9
25°	581.8	587.4	606.2	619.3	635.3	620.3	602.4	588.4	586.5	591.2	598.7
27.5°	534.9	543.3	560.2	573.3	588.4	574.3	557.4	545.2	544.2	543.3	548.0
30°	497.3	506.7	518.9	533.9	544.2	532.1	516.1	509.5	508.6	506.7	508.6
32.5°	459.8	474.8	487.0	494.5	504.8	495.5	483.3	479.5	472.9	467.3	464.5
35°	417.6	433.5	452.3	461.7	472.0	462.6	454.2	438.2	427.0	426.0	427.9
37.5°	393.2	399.7	414.8	430.7	441.0	436.3	420.4	404.4	401.6	401.6	403.5
40°	371.6	374.4	381.0	401.6	420.4	406.3	386.6	381.9	381.9	381.0	381.9
42.5°	350.0	352.8	352.8	368.8	398.8	376.3	361.3	361.3	361.3	362.2	365.0
45°	330.3	331.2	330.3	341.6	369.7	350.9	340.6	343.4	345.3	347.2	349.1
47.5°	313.4	314.4	313.4	322.8	336.9	329.4	323.7	327.5	331.2	334.1	335.9
50°	298.4	297.5	299.3	305.0	311.5	313.4	309.7	315.3	317.2	320.9	325.6
52.5°	285.3	284.3	286.2	289.0	298.4	298.4	298.4	303.1	306.8	310.6	317.2
55°	270.2	271.2	274.0	277.8	290.0	288.1	289.0	292.8	296.5	302.2	305.9
57.5°	256.2	258.0	261.8	267.4	279.6	278.7	279.6	281.5	286.2	289.0	292.8
60°	240.2	244.0	248.7	252.4	264.6	263.7	268.4	272.1	274.9	274.9	276.8
62.5°	224.3	229.9	234.6	237.4	250.5	251.5	258.0	260.9	262.7	260.9	263.7
65°	208.3	216.8	218.6	222.4	235.5	236.5	244.0	250.5	248.7	246.8	251.5
67.5°	192.4	202.7	201.7	206.4	219.6	221.5	228.0	239.3	235.5	233.7	237.4
70°	174.5	182.0	183.0	185.8	203.6	200.8	211.1	221.5	218.6	219.6	219.6
72.5°	154.8	161.4	161.4	167.0	185.8	181.1	189.5	200.8	200.8	199.9	199.9
75°	131.4	135.1	138.9	147.3	167.0	161.4	167.0	177.4	179.2	177.4	177.4
77.5°	106.0	111.7	113.5	124.8	138.9	137.9	143.6	148.3	152.0	150.1	150.1
80°	75.1	80.7	88.2	100.4	108.8	111.7	114.5	118.2	120.1	120.1	122.0
82.5°	42.2	50.7	57.2	69.4	73.2	87.3	86.3	89.1	86.3	76.0	84.5
85°	9.4	17.8	25.3	31.9	36.6	50.7	53.5	60.1	49.7	46.0	46.0
87.5°	0.0	0.0	0.0	0.0	0.0	7.5	15.0	20.6	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°	4571.7	4571.7	4571.7	4571.7	4571.7	4571.7	4571.7	4571.7	4571.7	4571.7
2.5°	3989.9	4071.5	4170.1	4339.9	4459.1	4587.6	4717.1	4855.1	4891.7	4929.2
5°	3234.5	3395.0	3482.3	3710.3	3949.6	4253.6	4502.3	4774.4	4887.9	4914.2
7.5°	2450.1	2558.9	2787.9	3018.7	3315.2	3634.3	4015.2	4439.4	4571.7	4627.1
10°	1942.4	2090.7	2291.5	2539.2	2799.1	3142.6	3572.3	4067.8	4255.5	4286.4
12.5°	1653.4	1818.5	2037.2	2299.0	2544.8	2803.8	3237.3	3748.8	3949.6	4016.2
15°	1322.2	1522.0	1774.4	2050.3	2317.8	2601.1	3040.3	3617.4	3849.2	3927.0
17.5°	1038.8	1200.2	1473.2	1772.6	2089.7	2448.2	2999.0	3680.3	3965.5	4037.8
20°	794.8	910.2	1140.1	1456.3	1827.9	2297.1	3009.3	3917.7	4259.2	4357.7
22.5°	686.9	746.0	885.8	1187.0	1602.7	2165.7	3051.6	4243.3	4655.2	4819.4
25°	622.1	653.1	731.9	929.0	1387.8	2038.1	3148.2	4681.5	5208.8	5317.7
27.5°	566.8	589.3	638.1	779.8	1192.7	1919.9	3260.8	5167.6	5725.9	5888.2
30°	514.2	544.2	590.2	692.5	1067.9	1812.0	3402.5	5561.7	6161.3	6312.4
32.5°	473.9	503.9	546.1	631.5	961.8	1698.4	3487.0	5907.9	6516.9	6645.5
35°	441.0	466.4	510.5	582.7	881.1	1612.1	3470.1	6182.9	6861.3	6992.7
37.5°	417.6	439.2	483.3	536.7	820.1	1522.0	3461.6	6546.0	7280.7	7432.8
40°	396.0	418.5	458.9	506.7	759.1	1416.0	3466.3	6906.3	7727.4	7879.4
42.5°	379.1	404.4	437.3	498.3	696.3	1330.6	3466.3	7219.8	8115.9	8262.3
45°	365.0	392.2	424.1	497.3	646.5	1265.8	3442.8	7489.1	8425.5	8550.3
47.5°	352.8	382.9	428.8	480.4	634.3	1218.9	3422.2	7704.9	8678.0	8795.3
50°	344.4	380.0	456.0	460.7	638.1	1204.9	3521.7	7977.0	8900.4	9001.7
52.5°	337.8	381.0	455.1	431.6	631.5	1214.2	3729.0	8402.1	9209.1	9216.6
55°	324.7	380.0	431.6	398.8	604.3	1230.2	3995.5	9019.5	9692.3	9698.0
57.5°	311.5	369.7	400.7	370.7	548.9	1230.2	4316.5	9604.1	10275.1	10279.7
60°	298.4	384.7	351.9	346.3	476.7	1207.7	4655.2	9861.2	10458.0	10505.9
62.5°	285.3	387.5	314.4	324.7	424.1	1153.2	4907.6	9576.9	10210.3	10278.8
65°	270.2	312.5	290.0	302.2	396.9	1062.2	4827.9	9056.1	9744.9	9826.5
67.5°	252.4	264.6	263.7	278.7	387.5	928.0	4407.5	8397.4	9243.8	9239.1
70°	230.8	237.4	240.2	256.2	369.7	823.9	3672.7	7542.5	8574.7	8679.8
72.5°	208.3	213.9	216.8	230.8	351.9	764.8	2850.7	6364.9	7427.1	7591.3
75°	183.9	187.7	191.4	203.6	333.1	677.5	2030.6	4858.8	5688.3	5946.4
77.5°	158.6	158.6	163.3	175.5	280.6	559.3	1362.5	3408.1	3853.8	4117.5
80°	128.6	129.5	127.6	140.8	206.4	382.9	774.1	2276.5	2564.5	2615.2
82.5°	98.5	95.7	96.7	103.2	153.9	260.9	412.9	1414.1	1441.3	1413.2
85°	61.9	61.9	60.1	67.6	98.5	136.1	225.2	866.1	676.6	643.7
87.5°	25.3	20.6	23.5	27.2	46.9	55.4	88.2	178.3	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)