

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: P648052

Luminaire Tested: **GALN-SA7A-835-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648052  
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-SA7A-835-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 615mA 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: 21498.1 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

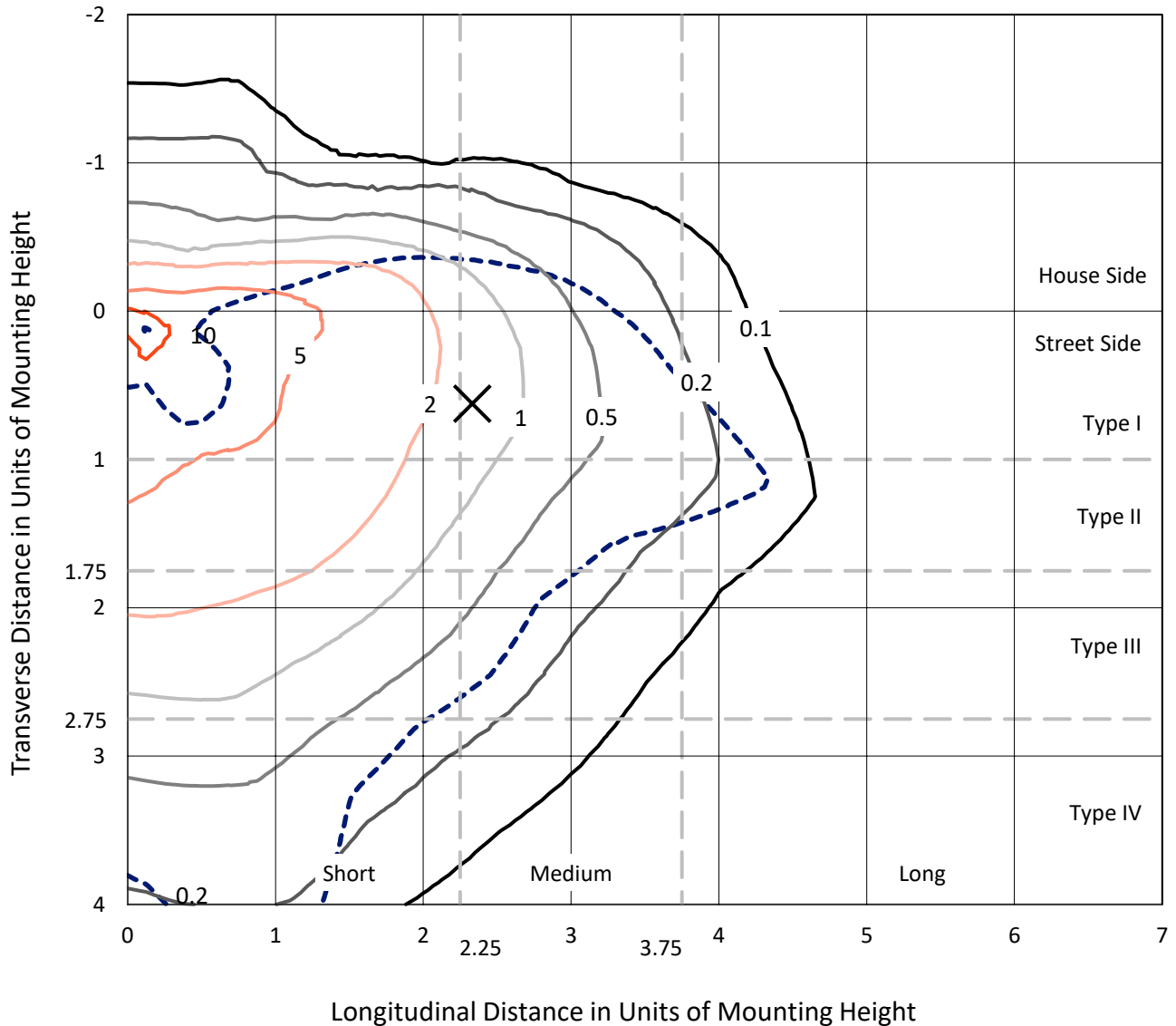
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

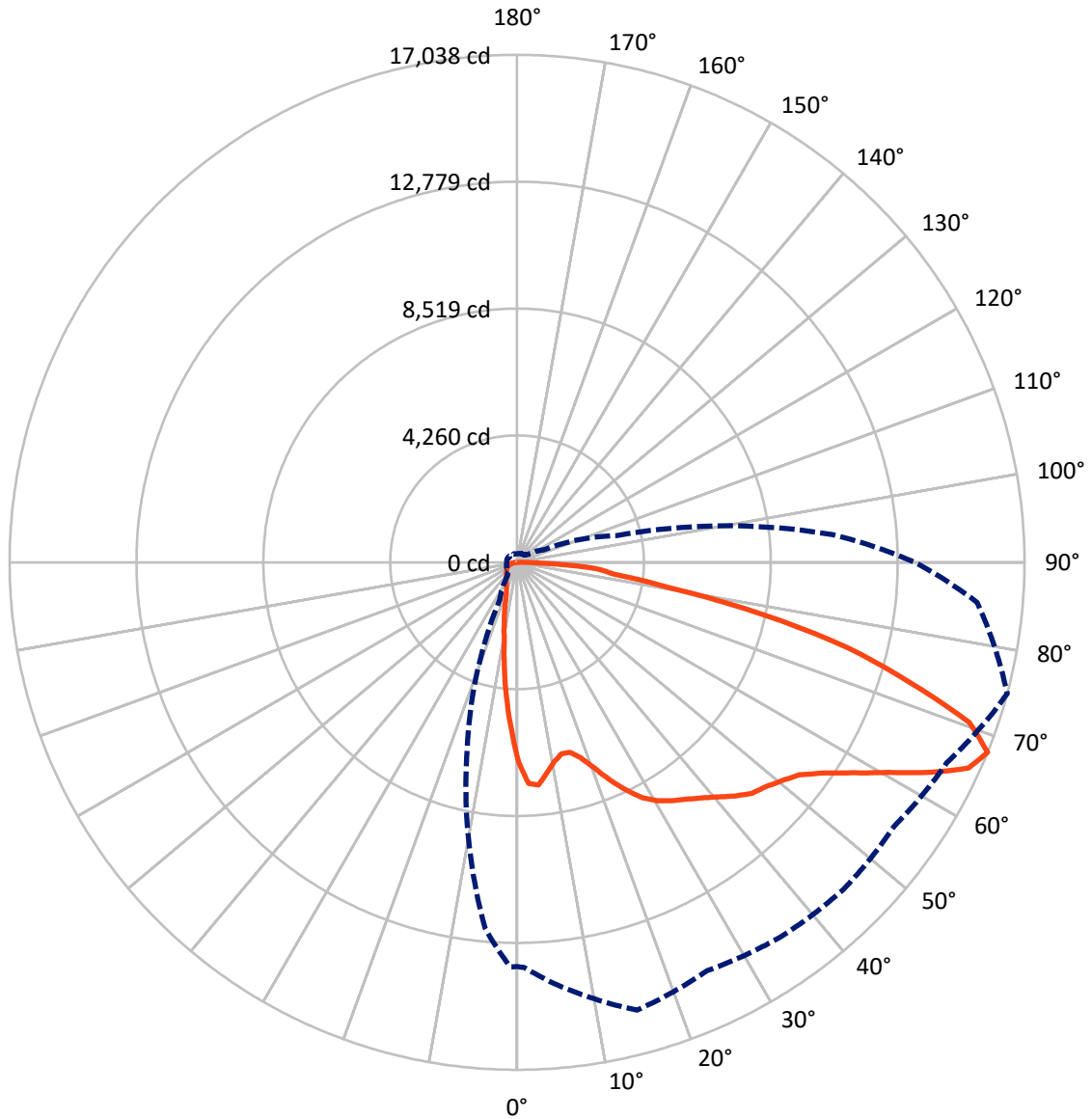
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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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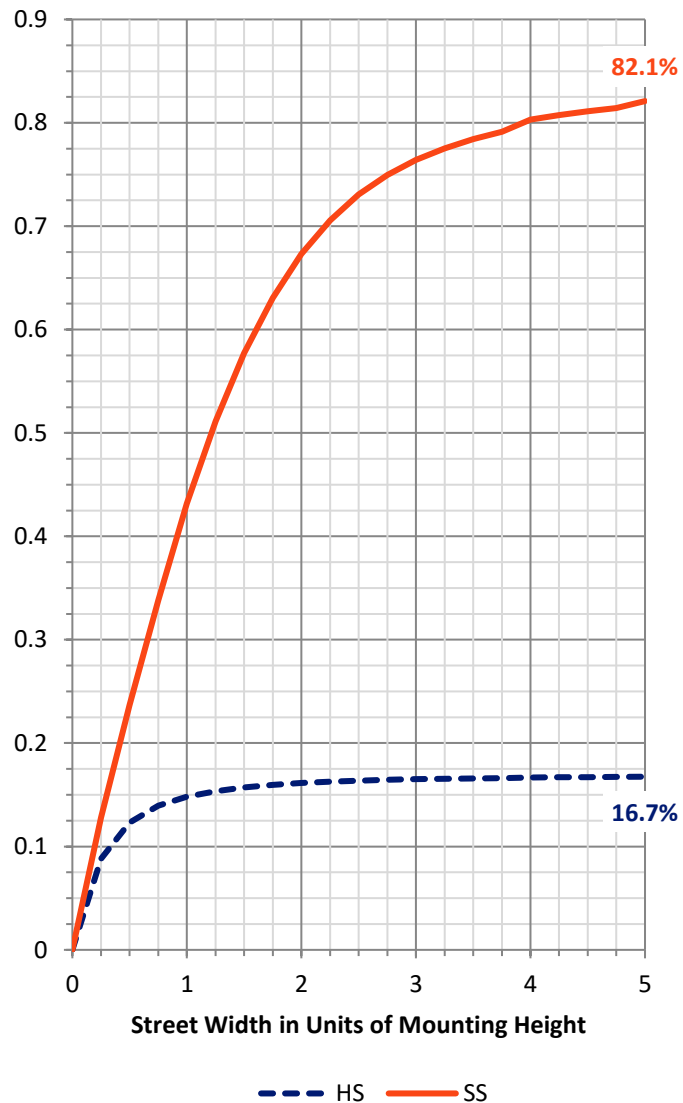
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3633.6	0.0	3633.6
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	17864.4	0.0	17864.4
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	21498.1	0.0	21498.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	509.4	2.4
10°-20°	1062.4	4.9
20°-30°	1528.9	7.1
30°-40°	2202.0	10.2
40°-50°	3093.2	14.4
50°-60°	4313.9	20.1
60°-70°	5128.9	23.9
70°-80°	3020.6	14.1
80°-90°	638.8	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°	21498.1	100.0
0°-180°	21498.1	100.0

**Coefficient of Utilization**

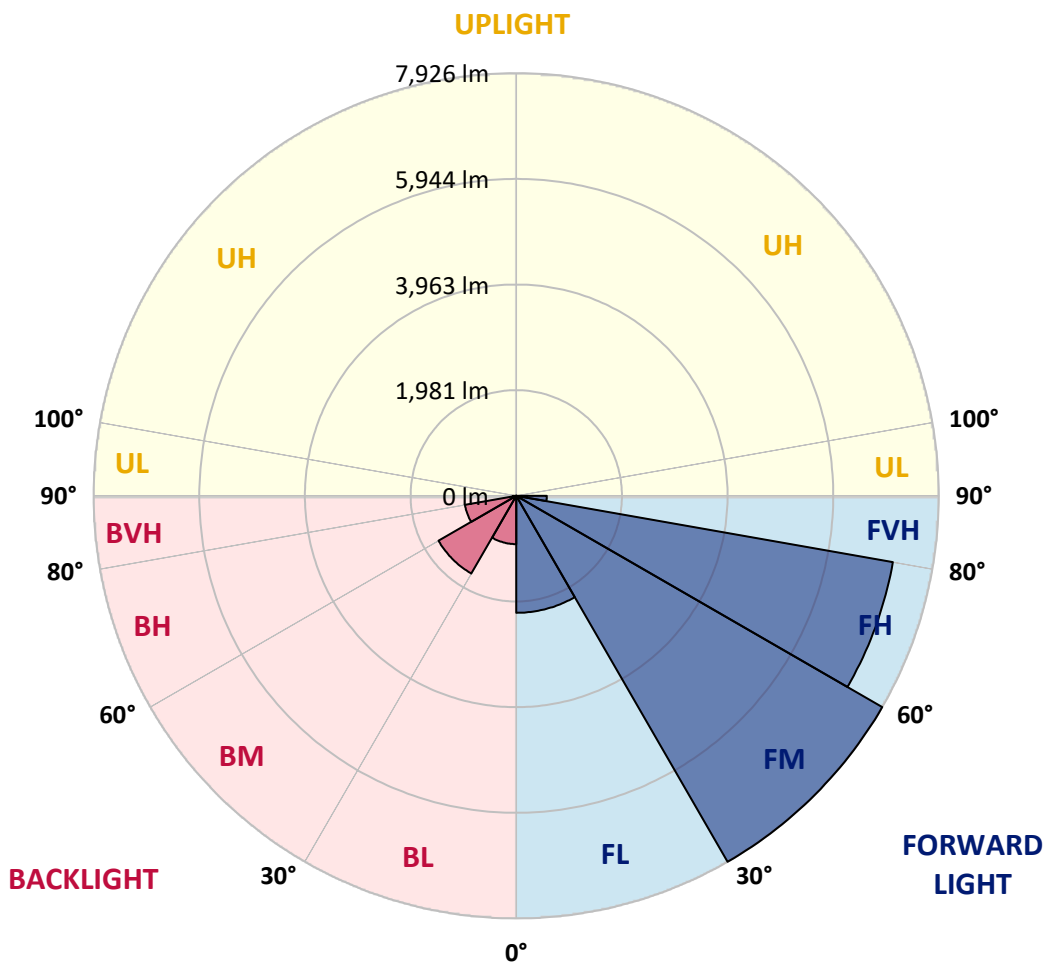


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2194.4	10.2			
FM (30°-60°)	7925.5	36.9			
FH (60°-80°)	7171.8	33.4			G3/7500
FVH (80°-90°)	572.7	2.7			G4/750
BL (0°-30°)	906.3	4.2	B2/1000		
BM (30°-60°)	1683.5	7.8	B2/2500		
BH (60°-80°)	977.7	4.5	B2/1000		G2/1000
BVH (80°-90°)	66.1	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-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5
2.5°	7241.7	7251.4	7313.5	7494.0	7618.1	7663.6	7695.3	7636.1	7578.1	7437.5	7225.2
5°	7219.7	7276.2	7437.5	7842.8	8162.6	8300.5	8341.8	8164.0	7870.4	7509.2	7075.0
7.5°	6797.8	6873.6	7121.8	7801.4	8365.3	8687.9	8645.2	8323.9	7794.5	7150.7	6544.2
10°	6297.4	6381.5	6680.6	7502.3	8228.8	8672.7	8672.7	8281.2	7578.1	6813.0	6114.1
12.5°	5900.4	5988.6	6330.5	7194.9	7944.8	8365.3	8435.6	8099.2	7422.4	6599.3	5831.5
15°	5769.4	5854.9	6223.0	7008.8	7644.3	7900.7	7924.1	7813.9	7346.5	6614.5	5819.0
17.5°	5932.1	6042.3	6414.6	7063.9	7368.6	7383.8	7401.6	7488.5	7354.8	6891.6	6070.0
20°	6402.2	6520.7	6909.5	7241.7	7127.3	6970.2	6979.8	7203.1	7452.7	7349.2	6669.6
22.5°	7080.4	7183.9	7582.3	7554.7	7025.3	6701.3	6633.8	6945.4	7597.4	7920.0	7307.9
25°	7812.5	7933.8	8391.5	8019.3	7054.3	6541.4	6498.7	6793.7	7747.7	8453.5	8045.5
27.5°	8650.7	8769.2	9130.4	8488.0	7205.9	6529.0	6478.0	6779.9	7882.8	8947.0	8749.9
30°	9273.8	9382.7	9628.1	8882.3	7392.0	6611.7	6548.3	6888.8	7998.6	9284.8	9436.5
32.5°	9763.1	9876.2	10010.0	9127.7	7637.4	6762.0	6644.9	7087.3	8150.2	9542.6	9945.2
35°	10273.3	10407.0	10397.3	9345.5	7866.3	6935.7	6821.3	7374.1	8388.7	9767.3	10590.3
37.5°	10919.8	10973.6	10904.7	9541.2	8140.6	7248.6	7185.2	7800.1	8727.9	10038.9	11344.4
40°	11576.0	11683.5	11329.3	9778.3	8474.2	7837.3	7830.4	8430.1	9130.4	10357.4	12075.1
42.5°	12138.5	12229.5	11726.3	9985.1	8878.1	8555.5	8607.9	9275.2	9658.4	10726.8	12662.4
45°	12561.7	12643.1	12093.0	10185.0	9410.3	9385.4	9694.2	10180.9	10324.2	11059.1	13007.0
47.5°	12921.5	13000.1	12348.1	10488.4	10067.9	10376.6	10914.3	11125.3	10893.6	11249.3	13393.0
50°	13224.8	13248.3	12523.1	10849.5	10884.0	11591.2	12112.3	12248.8	11456.1	11522.2	13728.0
52.5°	13540.5	13510.2	12825.1	11304.5	11766.3	12743.7	13122.8	13264.8	11995.1	11858.6	14216.1
55°	14247.8	14276.7	13501.9	11878.0	12658.2	13875.5	14374.5	14238.1	12592.0	12477.7	14836.4
57.5°	15102.5	15077.7	14454.6	12775.4	13566.7	14928.8	15301.0	15081.8	13388.9	13328.2	15465.0
60°	15434.7	15467.8	15251.4	13740.4	14462.8	15851.1	16231.5	15891.1	14344.2	14316.7	15939.3
62.5°	15101.1	15287.2	15433.3	14599.3	15226.5	16529.3	16907.1	16518.3	15341.0	15540.8	16271.5
65°	14436.6	14476.6	14974.2	15327.1	15594.6	16640.9	16838.1	16631.3	16173.6	16656.1	16256.3
67.5°	13573.6	13608.1	14191.2	15565.6	15120.4	15372.6	15510.5	15449.8	15915.8	17038.0	15507.8
70°	12751.9	12724.4	13340.6	14957.7	13162.8	12779.6	12894.0	12703.7	13733.5	16104.7	14039.6
72.5°	11152.8	11252.1	11913.8	13267.5	10422.1	9799.0	10048.6	9556.4	10562.7	13792.8	11395.5
75°	8736.2	8759.6	9863.8	11134.9	7862.1	6879.2	7216.9	7011.5	8091.0	11505.7	7869.0
77.5°	6049.2	5996.8	7183.9	8504.6	5606.7	5036.0	5041.5	4943.6	5649.5	8471.4	5346.2
80°	3842.1	3762.2	4497.0	5253.9	3853.1	4122.0	3986.9	3982.7	3678.1	5226.2	3232.8
82.5°	2076.1	2164.4	2841.3	3293.5	2764.1	3185.9	2919.9	2834.4	2524.2	3271.4	2067.9
85°	945.7	1028.4	1515.1	2240.2	2099.6	2123.0	1418.6	1673.6	2088.6	2656.6	1104.3
87.5°	92.4	118.5	313.0	1057.4	716.8	565.2	210.9	406.7	525.2	944.3	88.2
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°	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5
2.5°	7138.4	7066.7	6822.7	6621.4	6407.7	6245.1	6032.7	5890.7	5792.9	5645.4	5627.4
5°	6810.2	6635.1	6210.5	5777.7	5404.1	5122.9	4837.5	4575.5	4421.1	4372.9	4310.9
7.5°	6257.4	5962.4	5416.5	4920.2	4491.4	4072.4	3749.8	3520.9	3367.9	3278.3	3170.8
10°	5802.5	5460.6	4796.1	4188.2	3835.2	3574.7	3290.7	3045.3	2856.5	2695.2	2606.9
12.5°	5496.4	5110.4	4363.3	3869.7	3596.7	3319.7	2987.4	2711.7	2433.3	2249.9	2171.3
15°	5404.1	4996.0	4229.5	3711.2	3319.7	2957.1	2584.8	2225.1	1949.4	1775.6	1717.7
17.5°	5630.2	5136.6	4228.1	3500.2	2994.3	2561.4	2084.4	1746.6	1464.1	1334.5	1293.1
20°	6052.0	5406.8	4240.6	3292.0	2641.4	2032.0	1516.4	1239.3	1104.3	1049.1	1028.4
22.5°	6640.7	5819.0	4277.8	3086.7	2255.4	1560.6	1136.0	995.3	947.1	937.4	933.3
25°	7365.8	6329.1	4403.2	2902.0	1930.0	1191.1	949.9	886.4	858.9	849.2	847.8
27.5°	8033.0	6988.1	4554.9	2743.4	1615.7	1027.1	858.9	805.1	777.5	776.1	778.9
30°	8635.5	7539.5	4681.7	2565.6	1377.2	912.7	799.6	745.8	719.7	718.2	726.5
32.5°	9156.6	7993.1	4775.4	2390.5	1244.9	842.4	745.8	687.9	665.9	661.7	665.9
35°	9713.6	8445.3	4732.7	2254.0	1169.0	784.4	705.9	649.3	623.1	610.7	610.7
37.5°	10349.1	8911.2	4659.6	2141.0	1134.6	736.2	671.3	616.2	590.1	577.6	576.3
40°	11042.5	9377.2	4559.0	2040.3	1100.1	707.2	647.9	590.1	558.4	545.9	543.2
42.5°	11654.6	9775.6	4476.3	1974.2	1043.6	712.8	627.3	570.7	530.8	514.2	512.9
45°	12186.8	10176.7	4461.1	1935.6	996.8	704.5	621.8	555.5	508.7	490.8	488.0
47.5°	12603.1	10594.5	4548.0	1913.5	945.7	660.4	657.6	545.9	489.4	470.1	467.4
50°	13110.4	11187.3	4746.5	1868.0	898.8	619.0	694.8	544.6	474.3	449.4	442.6
52.5°	13785.9	11959.3	5015.3	1786.6	831.3	580.4	663.1	544.6	456.3	431.5	423.2
55°	14807.5	12943.6	5278.6	1672.3	736.2	529.4	598.3	528.0	430.1	408.1	402.5
57.5°	15484.4	13663.2	5446.8	1513.7	617.6	492.2	515.6	501.8	403.9	380.5	380.5
60°	15518.8	13856.2	5366.8	1313.8	543.2	457.7	448.0	506.0	380.5	355.6	352.9
62.5°	15121.8	13383.3	4950.5	1134.6	503.2	420.5	405.3	443.9	357.0	332.2	328.1
65°	14501.4	12177.1	4228.1	1049.1	481.2	387.4	365.3	363.9	332.2	308.8	303.3
67.5°	13361.3	10641.4	3474.0	999.5	470.1	350.2	329.5	322.6	303.3	284.0	281.3
70°	11680.8	8912.6	2786.1	978.8	464.6	311.6	295.0	286.7	270.2	255.0	253.7
72.5°	9087.7	7229.4	2299.5	965.0	461.8	275.7	257.8	246.8	237.1	223.3	223.3
75°	6527.6	5318.6	1754.9	869.9	427.4	237.1	217.8	210.9	197.2	186.1	188.9
77.5°	4115.1	3581.6	1155.2	639.6	330.9	190.3	173.7	169.6	158.6	143.4	153.0
80°	2779.3	2518.7	674.2	402.5	208.2	139.2	133.7	132.3	120.0	103.4	104.8
82.5°	1891.4	1855.6	350.2	228.9	120.0	81.4	78.6	81.4	67.6	55.1	55.1
85°	738.9	1009.1	165.4	89.6	38.6	12.4	17.9	19.3	11.0	5.5	6.9
87.5°	13.8	103.4	4.1	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°	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5
2.5°	5599.9	5587.4	5608.1	5519.9	5537.8	5570.9	5587.4	5597.1	5733.6	5701.9	5788.7
5°	4368.7	4356.4	4436.3	4447.4	4488.7	4480.4	4520.4	4530.0	4579.7	4597.6	4718.9
7.5°	3177.6	3231.4	3322.4	3369.2	3439.6	3461.6	3441.0	3491.9	3388.6	3463.1	3485.1
10°	2553.1	2488.4	2449.8	2557.3	2571.1	2673.1	2631.7	2598.6	2659.3	2662.0	2720.0
12.5°	2125.8	1986.5	1894.2	1924.5	1957.6	2001.7	2008.6	2074.8	2118.9	2160.2	2194.7
15°	1666.7	1618.5	1534.4	1493.0	1539.9	1557.8	1600.5	1655.7	1702.6	1715.0	1761.8
17.5°	1279.3	1287.6	1273.8	1249.0	1277.9	1291.7	1294.5	1295.9	1308.3	1300.0	1368.9
20°	1029.8	1058.8	1093.2	1098.7	1108.4	1115.3	1102.9	1056.0	1057.4	1086.3	1108.4
22.5°	931.9	937.4	976.0	988.5	1018.8	1006.4	970.5	948.4	945.7	952.6	963.6
25°	854.7	863.0	890.6	909.8	933.3	911.3	885.0	864.4	861.6	868.5	879.5
27.5°	785.8	798.2	823.0	842.4	864.4	843.7	818.9	800.9	799.6	798.2	805.1
30°	730.6	744.5	762.3	784.4	799.6	781.7	758.3	748.5	747.2	744.5	747.2
32.5°	675.5	697.6	715.5	726.5	741.7	727.9	709.9	704.5	694.8	686.5	682.4
35°	613.5	636.9	664.5	678.2	693.4	679.6	667.3	643.8	627.3	625.9	628.7
37.5°	577.6	587.2	609.3	632.7	647.9	641.0	617.6	594.1	590.1	590.1	592.8
40°	545.9	550.1	559.7	590.1	617.6	597.0	568.0	561.1	561.1	559.7	561.1
42.5°	514.2	518.3	518.3	541.8	585.9	552.8	530.8	530.8	530.8	532.1	536.3
45°	485.3	486.6	485.3	501.8	543.2	515.6	500.4	504.6	507.3	510.0	512.9
47.5°	460.5	461.8	460.5	474.3	494.9	483.9	475.6	481.2	486.6	490.8	493.5
50°	438.4	437.0	439.7	448.0	457.7	460.5	454.9	463.2	466.0	471.4	478.3
52.5°	419.1	417.7	420.5	424.6	438.4	438.4	438.4	445.3	450.8	456.3	466.0
55°	397.1	398.4	402.5	408.1	426.0	423.2	424.6	430.1	435.7	443.9	449.4
57.5°	376.4	379.1	384.6	392.9	410.8	409.4	410.8	413.6	420.5	424.6	430.1
60°	352.9	358.5	365.3	370.8	388.8	387.4	394.2	399.8	403.9	403.9	406.7
62.5°	329.5	337.8	344.7	348.7	368.1	369.5	379.1	383.3	386.0	383.3	387.4
65°	306.1	318.4	321.2	326.7	346.0	347.4	358.5	368.1	365.3	362.6	369.5
67.5°	282.6	297.8	296.4	303.3	322.6	325.3	335.0	351.6	346.0	343.3	348.7
70°	256.4	267.5	268.8	273.0	299.2	295.0	310.1	325.3	321.2	322.6	322.6
72.5°	227.5	237.1	237.1	245.4	273.0	266.1	278.5	295.0	295.0	293.6	293.6
75°	193.0	198.5	204.0	216.4	245.4	237.1	245.4	260.6	263.3	260.6	260.6
77.5°	155.8	164.0	166.8	183.4	204.0	202.6	210.9	217.8	223.3	220.6	220.6
80°	110.3	118.5	129.6	147.5	159.9	164.0	168.2	173.7	176.5	176.5	179.2
82.5°	62.0	74.5	84.1	102.0	107.5	128.2	126.8	131.0	126.8	111.7	124.1
85°	13.8	26.2	37.2	46.9	53.8	74.5	78.6	88.2	73.1	67.6	67.6
87.5°	0.0	0.0	0.0	0.0	0.0	11.0	22.1	30.3	26.2	22.1	22.1
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5	6716.5
2.5°	5861.8	5981.7	6126.4	6376.0	6551.0	6739.9	6930.2	7132.8	7186.6	7241.7
5°	4752.0	4987.7	5116.0	5450.9	5802.5	6249.1	6614.5	7014.3	7181.0	7219.7
7.5°	3599.5	3759.4	4095.8	4434.9	4870.6	5339.3	5899.0	6522.2	6716.5	6797.8
10°	2853.7	3071.5	3366.5	3730.4	4112.3	4616.9	5248.3	5976.2	6251.9	6297.4
12.5°	2429.1	2671.7	2992.9	3377.5	3738.7	4119.2	4756.2	5507.5	5802.5	5900.4
15°	1942.5	2236.1	2606.9	3012.2	3405.1	3821.4	4466.6	5314.5	5655.0	5769.4
17.5°	1526.1	1763.2	2164.4	2604.2	3070.1	3596.7	4405.9	5406.8	5825.9	5932.1
20°	1167.7	1337.2	1675.0	2139.5	2685.5	3374.8	4421.1	5755.6	6257.4	6402.2
22.5°	1009.1	1096.0	1301.4	1743.9	2354.6	3181.8	4483.1	6234.0	6839.2	7080.4
25°	914.0	959.5	1075.3	1364.8	2038.9	2994.3	4625.2	6877.8	7652.6	7812.5
27.5°	832.6	865.8	937.4	1145.6	1752.2	2820.6	4790.6	7591.9	8412.2	8650.7
30°	755.4	799.6	867.2	1017.4	1568.8	2662.0	4998.8	8170.9	9051.9	9273.8
32.5°	696.2	740.3	802.3	927.8	1413.1	2495.3	5122.9	8679.6	9574.3	9763.1
35°	647.9	685.1	750.0	856.1	1294.5	2368.4	5098.0	9083.5	10080.3	10273.3
37.5°	613.5	645.2	709.9	788.6	1204.9	2236.1	5085.7	9617.0	10696.5	10919.8
40°	581.8	614.9	674.2	744.5	1115.3	2080.3	5092.6	10146.4	11352.7	11576.0
42.5°	556.9	594.1	642.5	732.0	1022.9	1954.8	5092.6	10606.9	11923.4	12138.5
45°	536.3	576.3	623.1	730.6	949.9	1859.7	5058.0	11002.6	12378.4	12561.7
47.5°	518.3	562.4	630.0	705.9	931.9	1790.8	5027.7	11319.6	12749.2	12921.5
50°	506.0	558.4	670.0	676.9	937.4	1770.1	5173.8	11719.4	13075.9	13224.8
52.5°	496.3	559.7	668.6	634.2	927.8	1783.9	5478.5	12343.9	13529.5	13540.5
55°	477.0	558.4	634.2	585.9	887.8	1807.3	5870.1	13251.0	14239.5	14247.8
57.5°	457.7	543.2	588.7	544.6	806.5	1807.3	6341.5	14109.9	15095.6	15102.5
60°	438.4	565.2	516.9	508.7	700.3	1774.3	6839.2	14487.6	15364.4	15434.7
62.5°	419.1	569.3	461.8	477.0	623.1	1694.3	7210.0	14069.9	15000.5	15101.1
65°	397.1	459.1	426.0	443.9	583.2	1560.6	7092.9	13304.8	14316.7	14436.6
67.5°	370.8	388.8	387.4	409.4	569.3	1363.4	6475.3	12337.0	13580.5	13573.6
70°	339.1	348.7	352.9	376.4	543.2	1210.4	5395.8	11081.1	12597.6	12751.9
72.5°	306.1	314.3	318.4	339.1	516.9	1123.5	4188.2	9351.0	10911.6	11152.8
75°	270.2	275.7	281.3	299.2	489.4	995.3	2983.3	7138.4	8357.0	8736.2
77.5°	233.0	233.0	239.9	257.8	412.2	821.6	2001.7	5007.1	5661.9	6049.2
80°	188.9	190.3	187.5	206.8	303.3	562.4	1137.3	3344.4	3767.7	3842.1
82.5°	144.8	140.6	142.0	151.7	226.1	383.3	606.6	2077.5	2117.5	2076.1
85°	91.0	91.0	88.2	99.3	144.8	199.9	330.9	1272.5	993.9	945.7
87.5°	37.2	30.3	34.5	40.0	68.9	81.4	129.6	261.9	100.6	92.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)