

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: P298945

Luminaire Tested: **GLNA-AF-06-LED-E1-SLL-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298945  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191289)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-06-LED-E1-SLL-7027-800  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill  
Light Eliminator Left OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

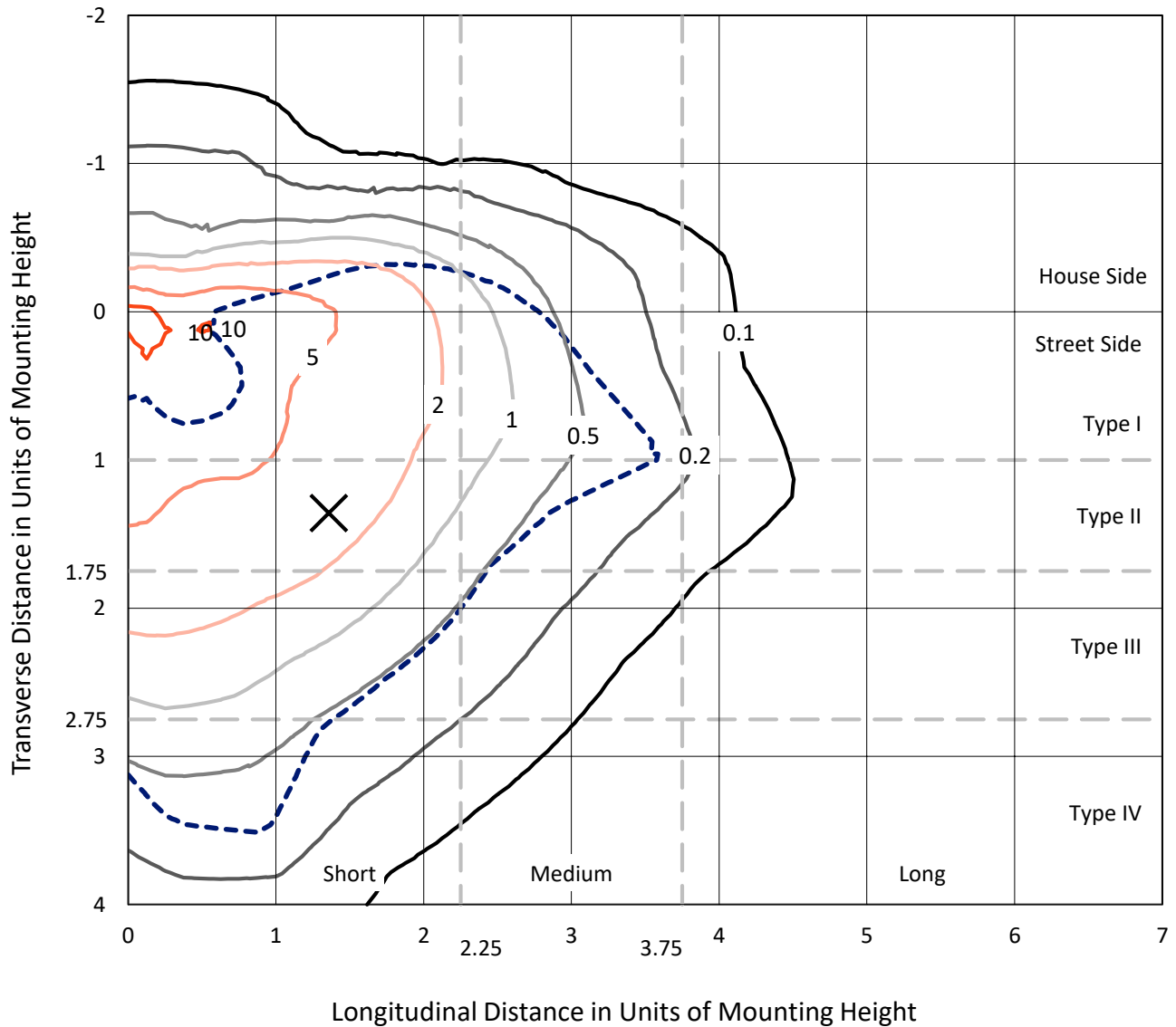
Lumens per Lamp: N/A  
Luminaire Lumens: 21889 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 249  
Input Voltage (V): NR  
Input Current (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: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

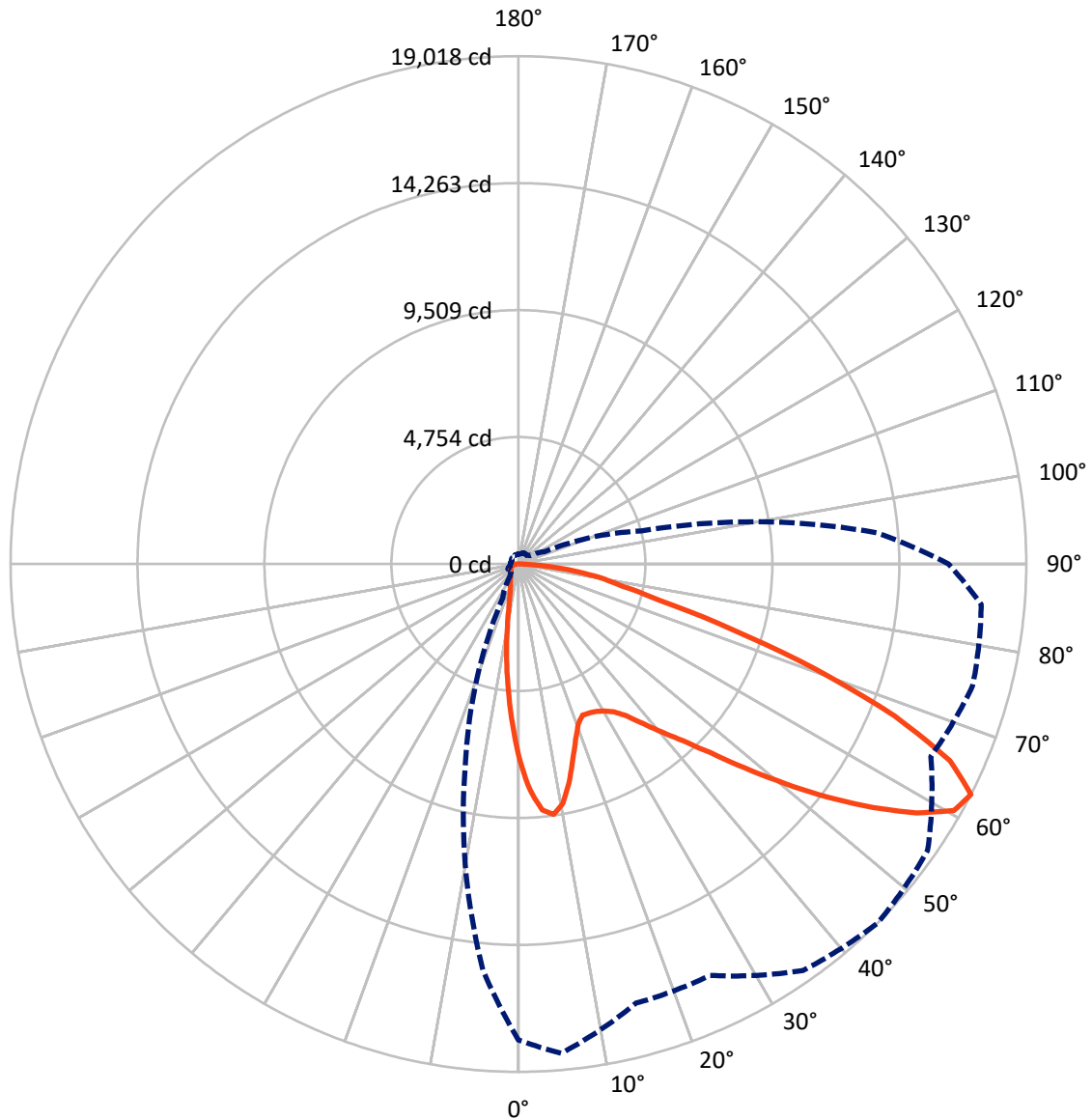
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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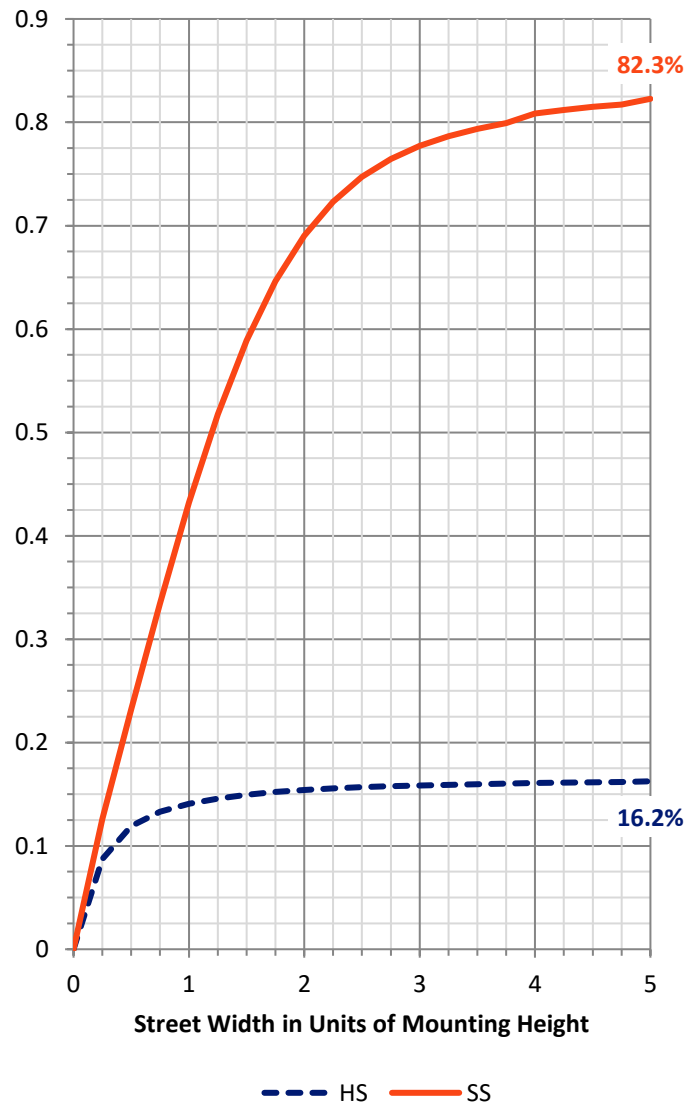
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3622.3	0.0	3622.3
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	18266.7	0.0	18266.7
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	21889.0	0.0	21889.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	538.3	2.5
10°-20°	987.2	4.5
20°-30°	1439.3	6.6
30°-40°	2216.7	10.1
40°-50°	3262.4	14.9
50°-60°	4785.3	21.9
60°-70°	5349.3	24.4
70°-80°	2618.9	12.0
80°-90°	691.5	3.2
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°	21889.0	100.0
0°-180°	21889.0	100.0

**Coefficient of Utilization**



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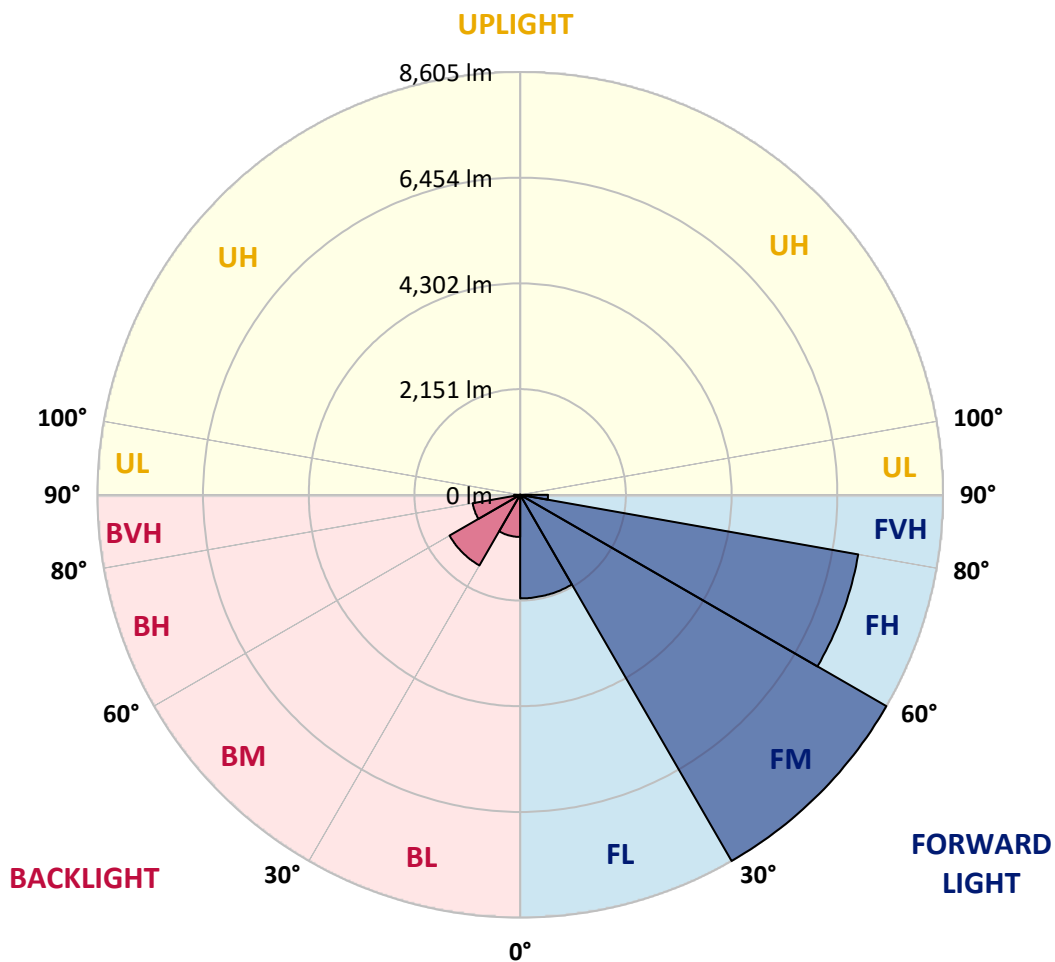
CATALOG NUMBER: GLNA-AF-06-LED-E1-SLL-7027-800

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2107.9	9.6			
FM (30°-60°)	8604.8	39.3			
FH (60°-80°)	6986.2	31.9			G3/7500
FVH (80°-90°)	567.9	2.6			G4/750
BL (0°-30°)	857.0	3.9	B2/1000		
BM (30°-60°)	1659.7	7.6	B2/2500		
BH (60°-80°)	982.0	4.5	B2/1000		G2/1000
BVH (80°-90°)	123.6	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5
2.5°	7683.8	7806.8	8046.3	8225.2	8443.5	8493.9	8563.9	8495.1	8373.6	8212.3	8159.6
5°	7225.6	7488.1	8068.9	8580.6	9035.3	9247.0	9306.4	9131.4	8779.1	8315.8	8033.0
7.5°	6490.5	6863.5	7650.2	8403.7	9073.6	9469.7	9459.9	9054.5	8406.0	7651.4	7197.9
10°	5856.1	6282.3	7185.0	8027.1	8738.1	9122.0	8973.6	8455.7	7681.5	6812.7	6320.9
12.5°	5501.4	5919.0	6834.6	7680.3	8274.8	8407.2	8293.9	7786.1	7056.9	6178.8	5747.9
15°	5439.7	5898.7	6695.1	7383.4	7716.6	7601.4	7466.2	7238.9	6723.7	5974.1	5525.3
17.5°	5706.1	6211.2	6855.3	7176.4	7119.7	6918.6	6880.3	6905.7	6781.9	6201.4	5684.2
20°	6216.3	6822.5	7236.5	7079.1	6666.2	6389.3	6399.1	6785.4	7152.2	6778.0	6187.0
22.5°	6931.9	7624.0	7786.1	7130.7	6474.8	6146.3	6226.0	6851.8	7743.2	7620.5	6865.8
25°	7858.4	8489.2	8372.5	7318.2	6494.0	6176.4	6240.1	7080.3	8440.8	8462.7	7706.1
27.5°	8756.0	9341.2	8864.2	7567.4	6573.7	6247.5	6331.9	7439.7	9107.6	9377.1	8666.2
30°	9456.4	9863.4	9059.2	7794.7	6729.9	6385.8	6490.5	7781.5	9411.1	9994.3	9404.8
32.5°	10036.5	10328.7	9369.7	8076.4	7017.4	6603.4	6787.7	8196.7	9847.8	10581.8	10127.9
35°	10777.5	10860.7	9756.0	8390.4	7461.5	6982.6	7211.2	8603.3	10264.2	11174.7	10840.4
37.5°	11646.6	11539.6	10120.5	8820.1	8035.7	7575.6	7764.7	9049.8	10606.8	11847.4	11568.1
40°	12505.6	12247.7	10578.3	9486.5	8873.2	8274.8	8498.6	9526.3	10927.1	12521.2	12279.4
42.5°	13236.0	12854.4	11029.0	10219.3	9652.5	9046.3	9313.4	10006.4	11232.5	13096.2	12896.6
45°	13776.2	13302.0	11458.7	10923.2	10727.1	10071.2	10197.8	10556.0	11563.4	13576.6	13404.4
47.5°	14258.6	13752.0	11944.6	11633.3	11666.9	11404.4	11200.9	11196.2	11953.6	13968.8	13884.4
50°	14904.7	14376.6	12466.9	12364.5	13077.0	12902.4	12453.6	11943.5	12446.6	14414.1	14404.3
52.5°	15795.3	15366.0	13104.8	13152.8	14393.8	14507.8	13951.6	12841.5	13218.8	15230.9	15173.5
55°	16848.4	16597.6	13973.9	14059.0	16008.2	16090.2	15537.5	13963.7	14355.1	16414.1	16253.9
57.5°	17669.9	17617.1	14926.6	15146.9	17214.0	17582.4	17074.6	15263.7	15635.2	17410.1	17008.2
60°	17997.2	18253.5	15941.0	16244.1	18329.6	18737.0	18292.1	16405.1	16769.9	17823.0	16956.6
62.5°	17820.7	18392.9	17021.5	16996.1	18578.5	19017.5	18704.6	17040.6	17611.3	17396.8	16098.8
65°	17003.5	17891.4	17648.4	16802.3	17726.5	17762.5	17661.3	16756.6	17809.7	16050.4	14440.3
67.5°	15223.5	16501.6	16822.6	15142.2	15428.1	15193.8	15023.9	15202.0	16774.6	14032.5	12136.0
70°	12399.7	14322.7	14476.2	12111.0	11981.0	11823.1	11485.3	12463.4	14732.8	11500.9	9629.8
72.5°	9117.4	11138.8	11611.4	8882.6	8281.0	8313.1	8046.3	9392.3	11978.6	8543.2	7189.7
75°	6237.7	8065.4	9084.9	6197.9	5476.4	5489.3	5455.3	6655.3	9540.8	5942.8	5379.9
77.5°	4556.9	5762.4	6851.8	4166.7	4045.2	3970.6	3952.6	4656.5	7314.7	4315.1	4177.6
80°	3656.6	4257.3	4602.2	2887.8	3105.4	3099.5	2999.5	3201.9	4776.8	3156.2	3124.5
82.5°	2536.7	3271.8	3728.8	2263.2	2096.0	2060.9	2085.5	2384.7	3376.5	2157.4	2051.5
85°	1338.2	2173.0	3692.9	2005.8	1244.1	992.6	1234.7	1952.7	2925.3	1143.3	1000.8
87.5°	171.1	628.1	2444.9	800.4	491.0	264.4	586.3	1099.6	1878.5	233.2	203.5
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5
2.5°	8023.6	7863.5	7654.1	7460.0	7259.2	7059.2	6798.3	6634.6	6521.7	6499.8	6452.2
5°	7828.7	7296.7	6894.8	6547.1	6231.9	5786.2	5539.7	5335.0	5225.7	5215.1	5188.5
7.5°	6929.5	6195.6	5653.0	5160.8	4714.3	4354.6	3957.3	3772.6	3696.4	3714.4	3732.3
10°	5994.4	5174.1	4550.7	4047.6	3654.2	3351.1	3032.3	2817.1	2667.5	2637.4	2631.6
12.5°	5311.2	4411.2	3806.2	3450.7	3146.8	2861.3	2523.4	2269.1	2075.7	2009.3	1965.2
15°	5022.1	4038.2	3404.2	3021.4	2685.5	2323.4	2009.3	1743.3	1565.6	1507.8	1475.4
17.5°	5083.9	3934.7	3127.3	2637.4	2208.1	1830.0	1434.3	1206.6	1099.6	1072.2	1072.2
20°	5406.5	3915.5	2898.4	2283.9	1748.0	1310.1	985.5	855.4	820.7	817.2	826.5
22.5°	5858.8	3983.1	2728.1	1977.3	1358.6	956.6	767.6	719.5	703.9	707.8	718.3
25°	6532.7	4210.4	2604.2	1703.9	1066.0	783.2	684.4	655.8	648.4	658.2	671.5
27.5°	7331.5	4437.8	2526.9	1498.0	900.0	716.0	650.8	621.1	625.8	637.9	649.6
30°	8033.0	4624.5	2405.4	1351.5	848.4	719.5	650.8	610.1	605.5	607.8	611.3
32.5°	8662.7	4750.7	2263.2	1211.7	731.6	639.0	607.8	601.9	575.0	565.2	566.8
35°	9205.2	4750.7	2178.1	1130.1	655.8	566.8	516.4	486.3	472.6	473.8	487.5
37.5°	9728.7	4655.4	2135.9	1084.0	614.8	539.0	494.5	468.0	450.0	446.5	448.8
40°	10190.4	4517.1	2087.8	1064.8	583.6	522.3	480.5	458.2	439.1	433.2	434.4
42.5°	10561.1	4405.0	2034.7	1039.8	564.0	510.1	470.3	451.2	429.7	423.4	422.3
45°	10961.8	4367.9	1965.2	989.0	573.8	511.3	468.0	447.6	425.8	418.7	416.4
47.5°	11490.0	4484.7	1892.9	928.9	594.5	517.6	471.5	447.6	424.6	418.7	416.4
50°	12155.2	4758.9	1801.1	841.0	573.8	534.4	470.3	443.7	424.6	418.7	414.1
52.5°	13009.8	5129.6	1681.2	740.2	561.7	575.0	468.0	436.7	418.7	410.5	401.9
55°	14048.1	5432.7	1537.5	657.0	534.4	564.0	464.4	428.5	409.4	397.3	389.8
57.5°	14808.6	5542.1	1353.9	603.1	495.7	546.1	459.4	417.6	397.3	387.5	378.1
60°	14658.2	5330.3	1198.4	569.1	472.6	493.3	455.8	407.8	386.3	379.3	370.3
62.5°	13454.0	4776.8	1098.4	553.5	458.2	450.0	459.4	398.4	376.9	369.1	366.8
65°	11647.8	3959.7	1059.0	550.0	446.5	424.6	427.3	387.5	365.6	359.8	357.4
67.5°	9608.0	3196.0	1024.2	561.7	430.8	406.6	394.9	373.0	354.7	348.8	344.1
70°	7576.8	2658.1	1008.2	554.7	411.7	388.7	375.8	357.4	341.8	335.5	332.0
72.5°	6101.4	2245.3	999.6	547.3	386.3	364.4	352.3	336.7	319.9	317.6	314.1
75°	5163.5	1765.2	916.0	524.6	357.4	335.5	327.3	312.9	296.1	296.1	293.7
77.5°	3983.1	1276.5	761.7	464.4	327.3	303.1	296.1	285.1	266.0	269.5	268.4
80°	2942.1	832.8	595.7	385.1	290.2	267.2	263.3	252.7	232.0	237.1	237.1
82.5°	2015.6	546.1	428.5	315.2	247.7	226.2	226.2	215.2	192.6	194.9	202.3
85°	1012.1	375.8	319.9	244.1	192.6	181.6	181.6	173.4	150.4	151.6	161.3
87.5°	308.2	226.2	211.7	174.6	138.3	135.9	129.7	123.8	109.4	108.2	114.5
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5
2.5°	6378.4	6309.6	6227.2	6044.0	5982.7	5978.8	6034.6	5976.4	6087.4	6040.5	6092.0
5°	5143.6	5076.8	4983.9	4750.7	4608.5	4512.0	4466.7	4331.9	4429.2	4358.1	4417.5
7.5°	3783.1	3798.7	3737.4	3600.3	3290.9	3135.9	3044.5	2962.4	3033.5	3026.1	3139.4
10°	2659.3	2701.1	2658.1	2519.9	2269.1	2183.9	2200.7	2233.1	2326.1	2373.8	2548.4
12.5°	1914.4	1912.1	1884.3	1760.5	1595.7	1605.0	1673.8	1730.0	1815.6	1866.4	2044.1
15°	1429.3	1407.8	1395.7	1294.5	1200.8	1221.5	1255.0	1260.9	1315.2	1345.3	1489.8
17.5°	1080.4	1091.4	1104.3	1032.4	961.3	948.0	921.9	889.0	905.1	910.9	982.8
20°	857.8	901.1	934.0	883.2	811.3	772.2	738.7	717.2	717.2	716.0	736.3
22.5°	749.6	780.8	816.0	780.8	716.0	682.0	662.9	646.1	643.7	643.7	662.9
25°	691.0	713.7	747.2	723.4	675.0	649.6	631.6	610.1	601.9	599.2	612.5
27.5°	661.7	671.5	688.3	666.4	625.8	613.7	609.0	589.8	578.5	572.6	586.3
30°	612.5	610.1	611.3	589.8	557.0	555.8	564.0	568.0	564.0	562.9	583.6
32.5°	566.8	561.7	560.5	541.4	511.3	504.3	511.3	518.7	526.9	539.0	562.9
35°	509.0	521.1	528.1	511.3	475.0	453.5	445.3	432.0	424.6	424.6	452.3
37.5°	463.3	491.0	501.9	486.3	446.5	416.4	401.9	399.6	400.8	405.5	432.0
40°	447.6	468.0	477.3	462.1	422.3	394.9	386.3	384.0	386.3	393.7	419.9
42.5°	437.9	452.3	451.2	432.0	399.6	380.5	375.8	373.0	375.8	382.8	411.7
45°	429.7	439.1	429.7	406.6	376.9	366.8	368.0	366.8	369.1	376.9	404.3
47.5°	422.3	425.8	414.1	391.0	359.8	357.4	362.1	365.6	368.0	374.6	403.1
50°	411.7	411.7	400.8	376.9	345.3	346.5	352.3	360.9	362.1	369.1	392.6
52.5°	398.4	397.3	389.8	366.8	333.2	336.7	336.7	346.5	348.8	357.4	381.6
55°	387.5	385.1	381.6	359.8	322.6	328.5	325.0	328.5	334.4	343.0	369.1
57.5°	378.1	373.0	373.0	353.5	314.1	316.4	308.2	312.9	319.9	327.3	354.7
60°	368.0	363.3	365.6	345.3	300.8	298.4	294.9	304.3	307.0	315.2	343.0
62.5°	357.4	353.5	354.7	335.5	291.4	285.1	285.1	293.7	294.9	307.0	333.2
65°	348.8	344.1	343.0	326.2	280.5	273.4	276.9	280.5	282.8	294.9	319.9
67.5°	340.6	330.9	330.9	317.6	268.4	260.9	268.4	267.2	271.1	281.6	301.9
70°	329.7	316.4	317.6	311.7	256.2	247.7	253.9	252.7	255.1	262.1	282.8
72.5°	312.9	301.9	304.3	301.9	244.1	232.0	234.4	234.4	234.4	240.6	262.1
75°	291.4	282.8	290.2	296.1	229.7	212.9	215.2	215.2	211.7	215.2	241.8
77.5°	264.4	259.8	284.0	275.8	212.9	192.6	192.6	190.2	183.2	187.9	216.4
80°	235.9	232.0	262.1	230.9	193.7	167.6	164.8	158.6	151.6	155.1	184.4
82.5°	205.9	202.3	220.3	176.9	167.6	138.3	132.4	121.5	114.5	118.0	144.1
85°	168.7	168.7	169.9	133.6	127.3	105.9	98.8	84.4	75.8	78.1	103.5
87.5°	120.3	123.8	114.5	91.4	75.8	59.0	54.3	45.7	38.3	44.5	54.3
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5	7395.5
2.5°	6356.9	6489.3	6639.7	6831.9	6997.1	7267.4	7527.6	7683.8
5°	4753.0	4973.3	5247.1	5600.3	5928.8	6421.7	6911.5	7225.6
7.5°	3401.5	3637.4	3933.5	4373.7	4838.6	5467.4	6115.1	6490.5
10°	2814.8	3056.6	3305.4	3602.6	3983.1	4667.5	5432.7	5856.1
12.5°	2328.5	2587.0	2855.4	3168.3	3520.6	4131.9	5013.9	5501.4
15°	1782.0	2070.7	2387.1	2783.1	3224.5	3931.2	4910.4	5439.7
17.5°	1221.5	1544.1	1932.4	2421.0	2961.3	3865.9	5096.0	5706.1
20°	841.0	1075.8	1491.0	2063.6	2713.6	3857.7	5451.8	6216.3
22.5°	703.9	808.6	1111.7	1735.1	2526.9	3961.2	6004.5	6931.9
25°	650.8	713.7	887.9	1450.0	2391.0	4199.5	6765.1	7858.4
27.5°	619.9	676.2	806.2	1263.6	2283.9	4476.1	7504.9	8756.0
30°	631.6	689.4	783.2	1168.3	2138.2	4706.9	8161.9	9456.4
32.5°	569.1	594.5	671.5	1084.0	2033.5	4900.7	8736.9	10036.5
35°	485.1	529.3	599.2	1044.5	2035.9	5030.7	9363.8	10777.5
37.5°	462.1	506.6	557.0	1030.1	2063.6	5169.4	10083.3	11646.6
40°	447.6	488.7	532.0	1021.9	2090.2	5295.6	10788.8	12505.6
42.5°	437.9	475.0	529.3	992.6	2103.5	5408.9	11368.5	13236.0
45°	436.7	475.0	539.0	963.6	2123.8	5530.3	11854.8	13776.2
47.5°	437.9	491.0	521.1	928.9	2123.8	5733.5	12425.1	14258.6
50°	433.2	517.6	501.9	879.7	2074.6	6118.6	13207.1	14904.7
52.5°	430.8	514.0	464.4	803.9	1989.0	6729.9	14209.4	15795.3
55°	424.6	495.7	437.9	691.0	1889.4	7396.7	15282.8	16848.4
57.5°	418.7	439.1	423.4	592.2	1735.1	7865.8	16021.5	17669.9
60°	469.1	384.0	411.7	543.7	1529.3	7994.3	15993.0	17997.2
62.5°	434.4	359.8	396.1	533.2	1385.1	7633.4	15253.9	17820.7
65°	340.6	344.1	380.5	564.0	1346.5	6677.2	13944.6	17003.5
67.5°	311.7	328.5	364.4	604.3	1350.4	5346.0	11988.4	15223.5
70°	293.7	311.7	346.5	624.6	1359.7	3985.4	9477.9	12399.7
72.5°	273.4	289.1	326.2	628.1	1296.8	2894.9	7305.3	9117.4
75°	248.8	263.3	297.3	547.3	1074.6	2008.2	5588.1	6237.7
77.5°	221.5	232.0	260.9	422.3	798.0	1285.1	4194.4	4556.9
80°	189.1	194.9	219.1	309.4	546.1	803.9	3318.7	3656.6
82.5°	151.6	153.9	169.9	232.0	354.7	516.4	2222.6	2536.7
85°	107.0	107.0	116.8	168.7	241.8	327.3	1206.6	1338.2
87.5°	50.4	51.6	51.6	92.6	126.2	166.4	278.1	171.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)