

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: STREETWORKS

Report Number: P301724

Luminaire Tested: **GAA-AF-08-LED-U-T2R-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P301724  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194759)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-08-LED-U-T2R-8030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II  
Roadway OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

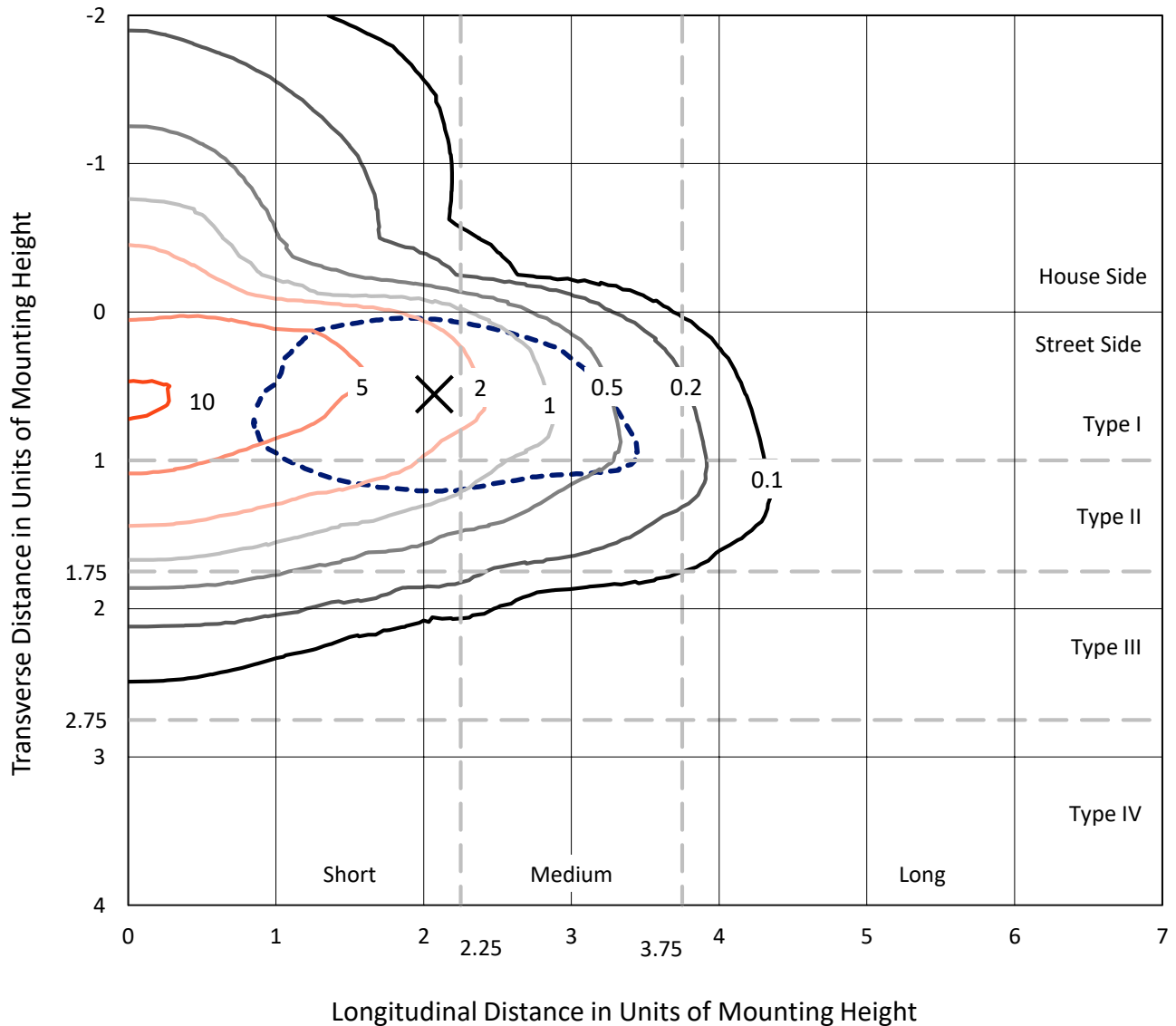
Lumens per Lamp: N/A  
Luminaire Lumens: 26622.7 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (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: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

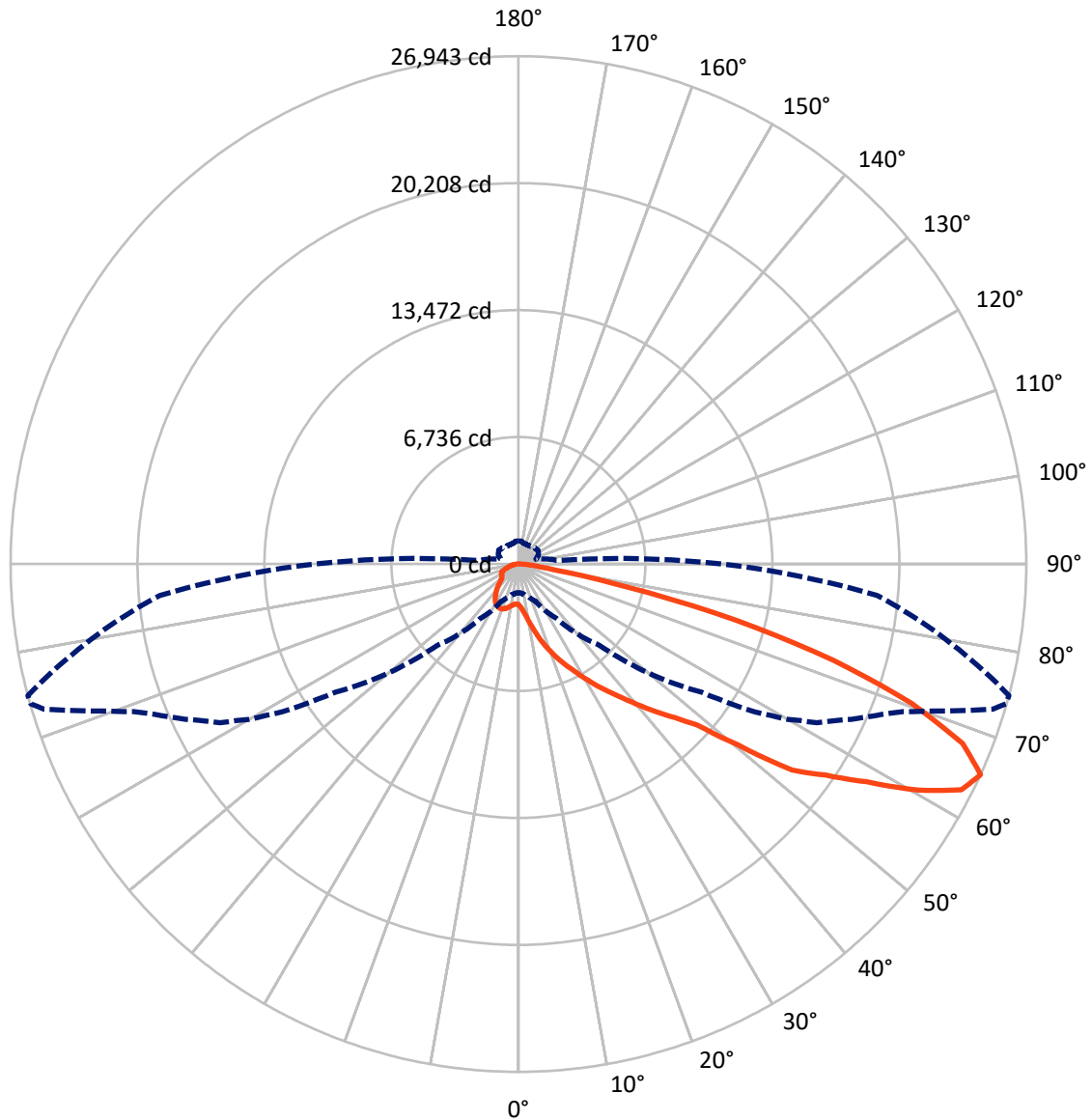
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4104.6	0.0	4104.6
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	22518.1	0.0	22518.1
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	26622.7	0.0	26622.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.4	1.0
10°-20°	1044.9	3.9
20°-30°	2143.8	8.1
30°-40°	3606.8	13.5
40°-50°	4983.6	18.7
50°-60°	6221.1	23.4
60°-70°	5598.3	21.0
70°-80°	2346.8	8.8
80°-90°	410.0	1.5
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°	26622.7	100.0
0°-180°	26622.7	100.0

**Coefficient of Utilization**



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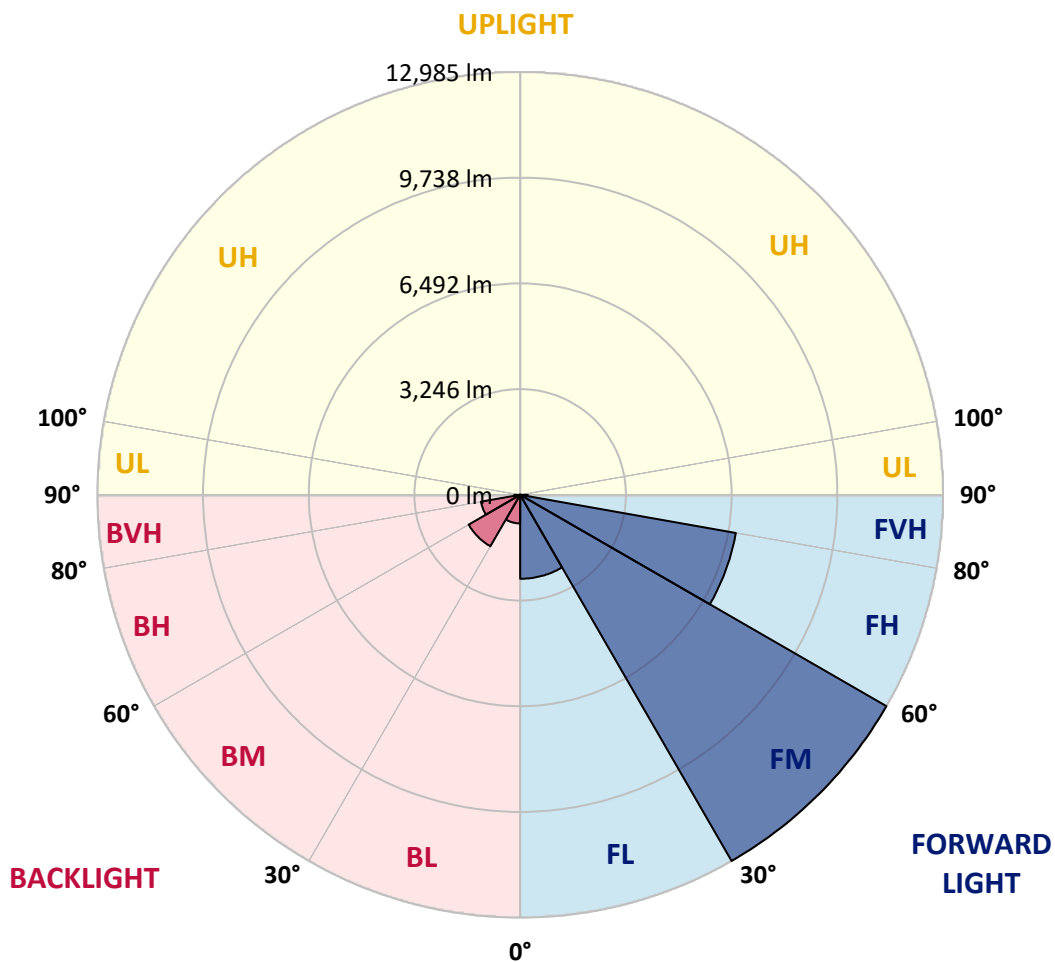
CATALOG NUMBER: GAA-AF-08-LED-U-T2R-8030-600

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2578.3	9.7			
FM (30°-60°)	12984.5	48.8			
FH (60°-80°)	6724.8	25.3			G3/7500
FVH (80°-90°)	230.4	0.9			G3/500
BL (0°-30°)	877.8	3.3	B2/1000		
BM (30°-60°)	1827.0	6.9	B2/2500		
BH (60°-80°)	1220.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	179.5	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6
2.5°	2747.1	2716.8	2724.3	2673.9	2612.2	2531.4	2442.1	2441.0	2442.1	2433.1	2400.6
5°	3809.1	3772.9	3759.0	3645.4	3479.0	3242.4	2985.2	2957.6	2946.0	2917.2	2850.3
7.5°	4584.4	4564.2	4542.5	4456.9	4305.9	4041.2	3695.8	3636.8	3580.0	3566.1	3490.6
10°	5084.5	5079.3	5034.1	5011.3	4917.1	4687.6	4351.1	4294.3	4232.6	4211.3	4131.7
12.5°	5480.0	5478.9	5457.6	5464.0	5381.7	5215.8	4925.7	4874.1	4828.9	4763.1	4706.6
15°	5753.7	5754.8	5786.6	5821.7	5809.0	5696.8	5424.7	5401.9	5363.0	5317.8	5250.9
17.5°	5977.9	5984.3	6016.8	6081.1	6150.6	6141.7	5926.4	5907.3	5873.3	5811.6	5776.5
20°	6484.5	6508.4	6445.6	6445.6	6453.1	6487.1	6383.5	6368.6	6320.7	6287.8	6260.2
22.5°	7340.1	7367.8	7225.3	7080.7	6938.3	6834.7	6731.5	6750.2	6717.7	6694.9	6678.5
25°	8451.4	8473.1	8242.5	7998.0	7707.9	7330.0	7074.3	7062.7	7045.2	7031.3	7023.9
27.5°	9497.4	9506.3	9288.4	8930.3	8593.9	8050.7	7422.0	7408.1	7386.8	7360.3	7337.5
30°	10392.3	10389.6	10165.4	9823.7	9463.3	8862.3	7950.2	7907.2	7844.0	7772.2	7716.9
32.5°	11167.2	11163.4	10917.5	10563.5	10185.5	9666.3	8673.5	8585.3	8487.0	8346.8	8262.7
35°	11776.8	11774.6	11542.5	11173.5	10739.9	10423.7	9502.6	9394.2	9269.3	9081.7	8952.0
37.5°	12007.5	12007.5	11877.8	11625.8	11242.7	11025.9	10423.7	10292.4	10159.0	9945.9	9799.8
40°	11872.5	11875.2	11902.8	11856.5	11669.9	11503.6	11283.0	11204.9	11090.2	10898.8	10746.3
42.5°	11420.2	11434.1	11618.3	11843.8	11936.8	11910.7	12045.2	12010.1	11929.4	11782.1	11661.0
45°	10846.8	10889.8	11091.3	11517.4	12011.2	12262.0	12684.1	12687.8	12672.9	12593.6	12500.2
47.5°	10059.6	10119.7	10385.9	10961.6	11837.4	12603.7	13333.0	13367.0	13398.8	13347.2	13304.2
50°	9013.6	9085.4	9483.5	10247.2	11483.4	12957.7	14559.1	14713.1	14856.7	14839.1	14867.9
52.5°	7893.3	7977.8	8465.3	9316.1	10874.8	13039.6	15343.0	15593.8	15844.6	16049.9	16267.8
55°	6882.6	6837.3	7325.2	8220.8	9874.2	12670.2	16047.6	16350.0	16629.6	16881.6	17141.4
57.5°	5512.9	5587.3	6076.3	6962.2	8549.8	11628.1	16532.4	16975.0	17376.9	17794.0	18161.9
60°	4029.7	4104.0	4634.5	5534.2	7112.1	10048.0	16162.0	16832.6	17476.3	18115.1	18614.2
62.5°	2433.1	2488.8	2956.1	3813.2	5484.1	8174.4	14511.3	15390.8	16338.4	17102.1	17866.9
65°	1514.7	1546.1	1718.8	2190.1	3522.0	6102.8	11856.5	12815.3	13835.8	14805.1	15600.2
67.5°	1239.9	1251.1	1282.9	1383.5	1934.1	3979.6	8824.5	9673.8	10594.9	11532.4	12417.2
70°	1115.1	1107.6	1107.6	1113.9	1239.9	2139.7	5777.6	6330.8	7098.3	7913.5	8722.5
72.5°	1006.7	999.2	985.4	966.7	1011.9	1305.3	2986.4	3403.5	3956.8	4681.2	5456.1
75°	904.6	894.5	878.5	854.5	885.9	985.4	1433.9	1609.2	1878.8	2264.5	2696.7
77.5°	798.8	786.1	771.2	753.6	794.0	766.3	840.3	903.5	1006.7	1130.4	1293.0
80°	679.2	668.0	662.8	654.2	702.0	583.5	593.6	632.5	693.0	760.0	835.5
82.5°	531.9	531.9	551.7	555.9	608.6	419.8	443.7	477.7	509.1	544.3	579.8
85°	350.3	352.9	420.9	447.4	480.0	282.2	332.7	343.9	369.3	389.5	404.5
87.5°	109.5	118.5	257.2	284.8	275.9	160.0	204.1	209.3	226.9	240.7	253.4
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):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6
2.5°	2400.6	2385.3	2371.4	2370.3	2360.2	2346.4	2351.3	2329.9	2331.1	2319.9	2307.1
5°	2822.6	2812.5	2762.1	2748.2	2710.5	2686.6	2682.8	2632.4	2626.0	2597.2	2565.4
7.5°	3430.1	3397.2	3326.5	3292.5	3228.2	3180.4	3157.9	3091.0	3058.1	2982.6	2948.6
10°	4066.3	4024.8	3937.7	3889.9	3828.2	3751.2	3709.7	3612.9	3574.7	3505.6	3422.6
12.5°	4656.2	4614.7	4525.0	4488.3	4406.5	4324.6	4279.4	4169.8	4120.5	4009.5	3944.1
15°	5201.5	5160.1	5081.9	5044.2	4962.3	4895.4	4834.8	4726.8	4668.9	4565.3	4479.7
17.5°	5730.9	5686.8	5618.7	5584.7	5505.5	5437.4	5372.0	5269.6	5210.5	5107.3	5030.3
20°	6222.4	6189.5	6140.6	6095.0	6015.7	5954.0	5875.9	5787.7	5702.1	5626.2	5553.3
22.5°	6650.8	6638.1	6585.4	6565.2	6497.2	6444.1	6376.1	6289.3	6227.3	6131.6	6063.6
25°	7020.1	7016.4	6991.0	6984.6	6936.8	6886.3	6871.4	6799.6	6742.8	6658.3	6588.0
27.5°	7337.5	7341.2	7335.2	7352.8	7340.1	7317.3	7318.8	7294.9	7262.0	7191.3	7129.7
30°	7690.4	7670.2	7681.8	7706.8	7714.3	7716.9	7758.4	7772.2	7770.0	7723.3	7693.0
32.5°	8189.4	8141.6	8097.4	8093.7	8118.8	8128.8	8199.5	8236.1	8267.5	8278.7	8284.0
35°	8825.6	8729.9	8638.0	8589.0	8546.0	8557.2	8607.7	8667.1	8736.3	8784.1	8840.9
37.5°	9627.1	9510.1	9347.5	9231.6	9202.4	9139.6	9172.1	9218.9	9286.9	9361.3	9459.6
40°	10598.6	10421.0	10238.2	10084.6	10001.6	9885.4	9884.2	9875.3	9917.1	9986.3	10125.0
42.5°	11533.9	11376.1	11182.1	11021.0	10912.6	10757.5	10726.1	10644.2	10662.9	10723.5	10858.4
45°	12409.3	12279.6	12161.1	11975.0	11882.6	11715.2	11662.1	11565.3	11511.1	11538.7	11673.7
47.5°	13257.5	13174.5	13050.8	12930.0	12859.4	12709.5	12641.5	12571.9	12502.8	12500.2	12641.5
50°	14910.9	14866.7	14720.6	14594.6	14628.6	14444.7	14455.9	14269.4	14353.9	14364.0	14660.0
52.5°	16464.4	16618.4	16726.8	16858.8	16944.7	16961.2	17017.6	17102.1	17204.2	17405.7	17680.4
55°	17354.1	17547.0	17659.1	17760.0	17926.4	17961.5	18056.1	18168.2	18257.6	18484.5	18717.7
57.5°	18411.6	18769.3	18943.1	19103.1	19327.4	19413.0	19570.8	19693.0	19808.9	20077.3	20359.5
60°	19062.7	19499.0	19853.0	20106.0	20387.2	20589.0	20827.1	21018.5	21290.6	21612.1	22033.0
62.5°	18545.0	19185.0	19655.2	20090.0	20471.6	20857.4	21198.7	21556.8	21969.9	22456.2	23109.2
65°	16482.3	17133.5	17938.7	18389.9	18895.3	19490.0	20009.2	20589.0	21152.0	21860.3	22825.5
67.5°	13269.1	14026.0	14931.0	15386.0	15966.9	16630.7	17213.1	17921.1	18579.0	19436.9	20630.5
70°	9564.3	10543.3	11304.3	11779.5	12457.5	13141.6	13703.8	14527.7	15072.0	15951.5	17185.5
72.5°	6056.1	6828.4	7761.0	8359.5	8961.7	9655.1	10229.6	10940.3	11447.9	12249.3	13367.0
75°	3256.2	3825.6	4644.6	5213.1	5858.3	6450.4	7123.3	7599.5	7975.2	8609.2	9516.4
77.5°	1525.9	1872.4	2287.0	2724.3	3161.7	3617.7	4061.4	4446.8	4608.3	4971.3	5506.6
80°	926.3	1038.4	1159.2	1294.1	1476.9	1624.2	1819.7	1960.6	1970.7	2085.5	2249.2
82.5°	618.7	660.1	696.8	730.8	777.5	814.2	855.6	904.6	924.8	951.3	1004.4
85°	422.0	442.2	449.7	471.4	466.1	478.8	495.3	511.7	520.3	519.2	543.1
87.5°	259.4	269.5	274.7	279.6	275.9	271.0	278.5	287.5	289.7	282.2	284.8
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):**

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6
2.5°	2309.8	2298.5	2287.0	2279.5	2276.9	2210.3	2181.2	2162.5	2122.1	2089.2	2062.7
5°	2547.9	2524.0	2505.3	2482.5	2469.8	2300.8	2239.1	2196.5	2125.9	2084.4	2046.2
7.5°	2931.0	2864.1	2825.2	2781.1	2743.4	2438.4	2336.3	2269.4	2171.1	2115.8	2072.8
10°	3365.8	3296.6	3234.6	3166.5	3107.5	2621.1	2472.4	2368.8	2239.1	2167.3	2110.5
12.5°	3851.0	3782.9	3704.8	3617.7	3542.2	2852.9	2646.2	2498.9	2321.0	2225.3	2146.0
15°	4424.4	4304.4	4209.8	4109.3	4021.1	3130.3	2849.2	2645.1	2408.1	2278.4	2172.6
17.5°	4957.1	4831.1	4702.9	4614.7	4512.6	3441.3	3053.3	2793.5	2479.8	2312.4	2177.4
20°	5477.8	5340.2	5229.6	5111.1	5003.8	3763.9	3271.2	2924.7	2526.6	2313.5	2146.0
22.5°	5936.5	5850.5	5727.1	5598.5	5490.1	4086.5	3475.3	3035.7	2544.1	2284.7	2090.3
25°	6457.9	6367.5	6216.1	6107.7	5986.9	4415.4	3675.7	3121.3	2534.0	2230.5	2004.7
27.5°	7014.9	6914.3	6759.2	6645.9	6499.8	4756.7	3859.6	3183.0	2496.3	2142.3	1890.0
30°	7595.8	7503.8	7351.3	7236.9	7089.3	5118.6	4065.2	3224.5	2420.8	2020.1	1756.5
32.5°	8219.7	8142.7	7991.7	7872.0	7714.3	5510.3	4256.6	3237.2	2306.0	1875.0	1615.6
35°	8811.8	8759.1	8631.6	8519.5	8355.7	5880.8	4459.5	3230.8	2170.0	1716.2	1487.0
37.5°	9478.7	9446.9	9384.1	9241.7	9041.3	6383.5	4702.9	3204.3	2003.6	1558.8	1388.7
40°	10189.3	10191.9	10123.9	10026.7	9840.1	6993.6	4992.6	3152.7	1821.9	1420.1	1299.0
42.5°	10941.4	10980.6	10947.7	10878.6	10699.5	7608.5	5339.1	3089.9	1645.9	1285.2	1211.1
45°	11803.4	11851.2	11901.7	11799.6	11625.8	8420.0	5795.2	3008.0	1455.2	1173.0	1150.6
47.5°	12797.7	12873.2	12918.5	12919.9	12746.1	9425.6	6536.0	2958.7	1286.6	1097.5	1121.4
50°	14895.5	14919.8	15026.7	15213.3	15079.8	11752.9	7830.2	2928.4	1171.9	1050.8	1100.1
52.5°	17918.5	18182.1	18367.5	18354.8	18173.1	13231.0	8543.4	2772.2	1103.9	1033.2	1090.0
55°	19149.8	19478.8	19821.6	19912.0	19771.1	14492.6	9217.7	2615.9	1071.0	1045.9	1093.8
57.5°	20790.5	21344.9	21815.1	22012.8	21808.7	16106.7	10104.8	2534.0	1060.9	1079.9	1117.7
60°	22707.0	23392.6	24010.1	24365.2	24365.2	17961.5	11024.7	2500.0	1047.0	1130.4	1158.1
62.5°	23938.3	24945.0	25877.7	26398.0	26382.7	19253.0	11432.9	2384.2	1015.6	1165.5	1213.4
65°	23943.2	25140.5	26328.5	26913.5	26943.4	19094.5	10759.0	2105.7	957.7	1170.8	1269.1
67.5°	21947.4	23223.6	24608.6	25262.7	25413.8	17577.2	9313.4	1731.5	863.1	1120.3	1289.3
70°	18536.1	19782.3	21196.1	21839.0	22107.4	14983.7	7501.2	1334.5	742.4	1009.3	1247.4
72.5°	14603.2	15825.6	16809.8	17279.7	17489.0	11453.1	5462.5	1008.2	608.6	850.4	1135.3
75°	10339.2	11256.5	11779.5	11884.1	11916.6	6904.2	3319.0	749.9	501.7	661.6	958.8
77.5°	5835.5	6228.8	6185.8	6232.5	5844.5	2665.3	1445.5	536.8	413.4	502.8	743.5
80°	2278.4	2349.0	2206.6	2162.5	1983.4	991.7	637.7	374.2	330.1	380.5	520.3
82.5°	1004.4	1036.9	1006.7	1014.5	970.4	511.7	381.7	271.0	251.9	278.5	345.4
85°	553.2	563.3	560.7	577.2	553.2	204.1	181.3	166.3	176.4	189.1	221.7
87.5°	269.5	272.1	263.5	277.4	268.4	103.2	89.3	94.6	103.2	105.8	105.8
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):**

	135°	145°	155°	165°	175°	180°
0°	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6
2.5°	2044.0	2033.9	2035.0	2032.4	2027.5	2027.5
5°	2026.4	2016.3	2016.3	2013.7	2007.4	2008.5
7.5°	2044.0	2027.5	2021.2	2012.2	2003.6	2003.6
10°	2064.2	2035.0	2017.4	2002.5	1990.9	1990.9
12.5°	2079.1	2033.9	2004.7	1984.6	1973.3	1973.3
15°	2084.4	2024.9	1984.6	1960.6	1950.5	1949.4
17.5°	2067.9	1990.9	1941.9	1914.3	1901.6	1897.8
20°	2017.4	1929.2	1870.2	1838.4	1820.8	1814.5
22.5°	1941.9	1841.0	1771.9	1739.0	1716.2	1712.4
25°	1836.1	1727.7	1659.7	1627.9	1615.6	1611.5
27.5°	1712.4	1611.5	1553.5	1533.4	1522.1	1521.0
30°	1595.4	1509.4	1466.8	1451.5	1437.7	1435.4
32.5°	1485.5	1431.3	1415.2	1393.6	1361.0	1357.3
35°	1407.4	1402.5	1391.3	1343.1	1303.1	1291.5
37.5°	1359.5	1406.3	1348.3	1253.8	1225.0	1222.4
40°	1331.9	1367.4	1267.6	1235.1	1237.3	1235.1
42.5°	1269.1	1305.3	1270.2	1255.2	1265.0	1267.6
45°	1205.9	1246.3	1289.3	1279.2	1303.1	1303.1
47.5°	1170.8	1231.0	1287.8	1287.8	1323.3	1335.6
50°	1130.4	1218.6	1267.6	1285.2	1313.2	1303.1
52.5°	1127.8	1196.9	1238.8	1270.2	1282.9	1271.3
55°	1131.5	1179.4	1209.6	1245.2	1260.1	1261.2
57.5°	1136.8	1169.3	1189.5	1205.9	1251.1	1251.1
60°	1149.1	1160.7	1171.9	1180.9	1239.9	1241.0
62.5°	1169.3	1151.7	1149.1	1158.1	1233.6	1228.7
65°	1201.0	1139.0	1120.3	1128.9	1227.2	1212.3
67.5°	1243.7	1120.3	1083.7	1090.0	1222.4	1189.5
70°	1282.9	1090.0	1038.4	1032.1	1174.5	1116.6
72.5°	1286.6	1054.9	975.3	956.6	1020.9	965.2
75°	1223.5	1030.6	906.1	850.4	842.9	835.5
77.5°	1102.7	1016.8	825.4	738.3	723.3	728.2
80°	922.6	965.2	728.2	625.0	706.9	698.3
82.5°	689.3	851.9	618.7	553.2	551.7	487.8
85°	383.2	664.3	503.9	414.6	288.6	279.6
87.5°	107.3	369.3	352.9	234.4	160.0	166.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)