

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: P301588

Luminaire Tested: **GAA-AF-05-LED-U-T2R-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P301588  
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-05-LED-U-T2R-7050  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II  
Roadway OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30883.6 lumens  
Efficiency: N/A  
Efficacy: 110.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 279  
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

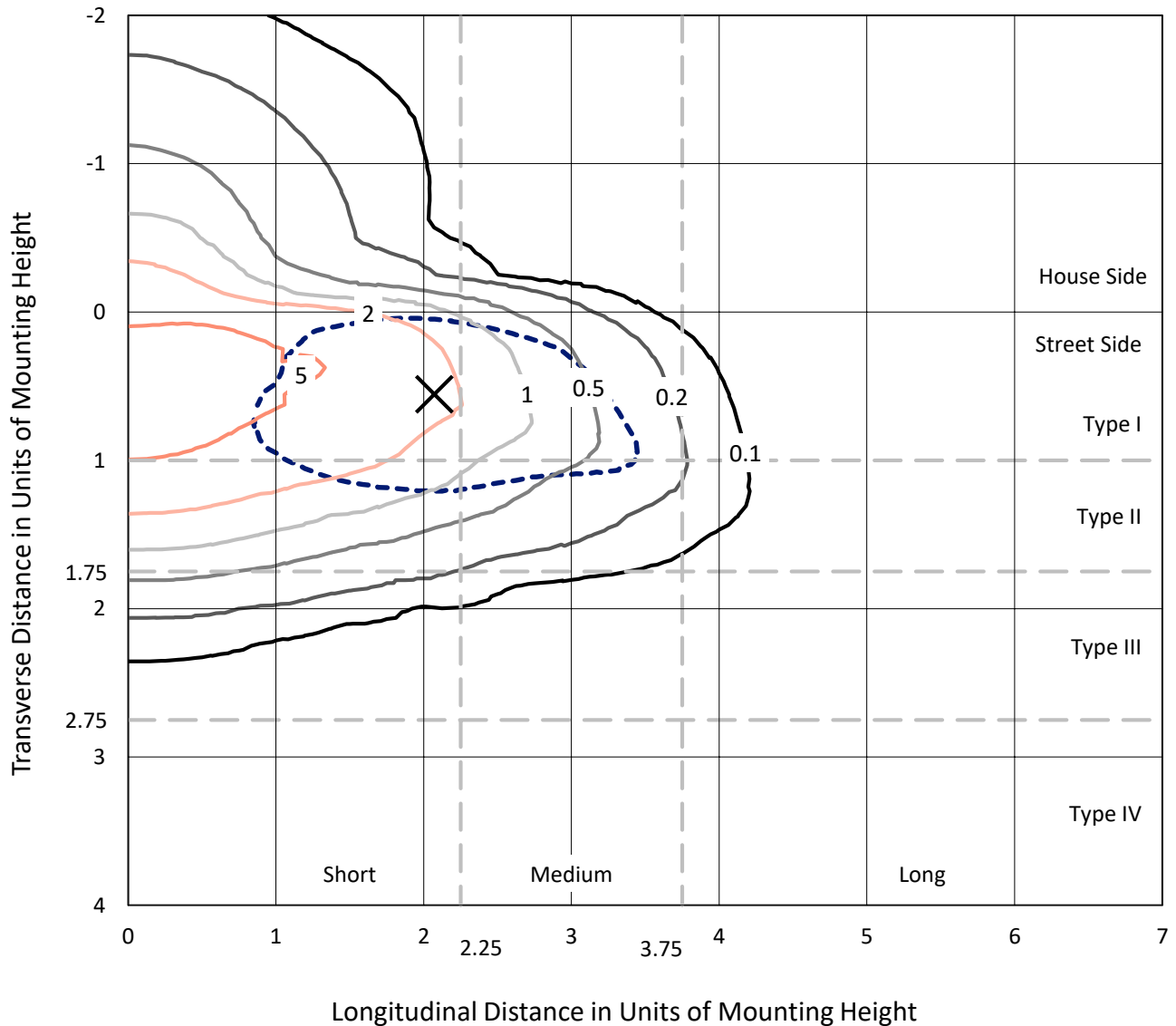


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### Iso-Footcandle Lines of Horizontal Illumination

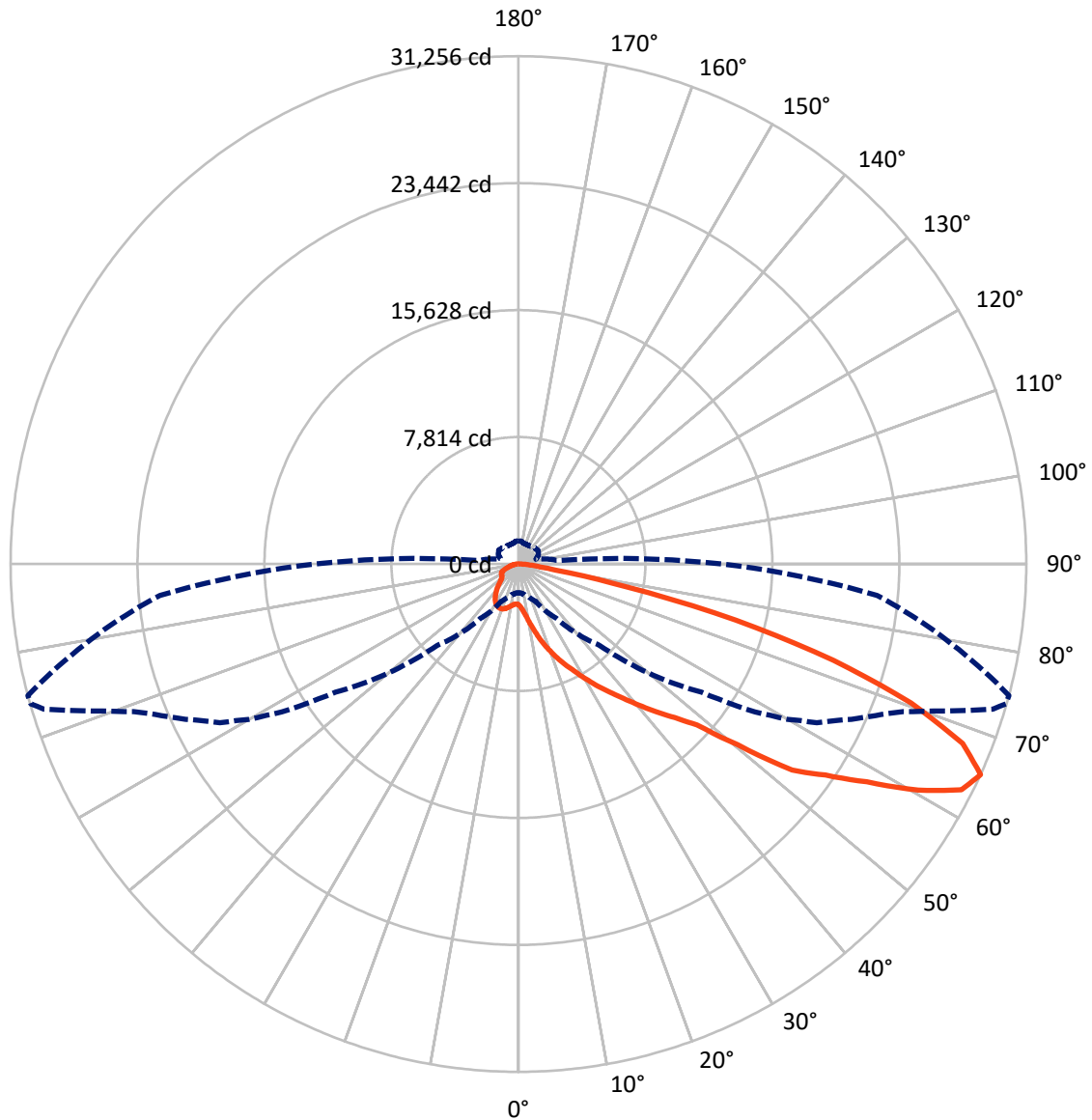
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 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    | 4761.5   | 0.0    | 4761.5  |
|                    | % Fixture | 15.4     | 0.0    | 15.4    |
| <b>Street Side</b> | Lumens    | 26122.1  | 0.0    | 26122.1 |
|                    | % Fixture | 84.6     | 0.0    | 84.6    |
| <b>Total</b>       | Lumens    | 30883.6  | 0.0    | 30883.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 310.2   | 1.0       |
| 10°-20°   | 1212.1  | 3.9       |
| 20°-30°   | 2486.9  | 8.1       |
| 30°-40°   | 4184.1  | 13.5      |
| 40°-50°   | 5781.3  | 18.7      |
| 50°-60°   | 7216.7  | 23.4      |
| 60°-70°   | 6494.3  | 21.0      |
| 70°-80°   | 2722.3  | 8.8       |
| 80°-90°   | 475.6   | 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°    | 30883.6 | 100.0     |
| 0°-180°   | 30883.6 | 100.0     |

**Coefficient of Utilization**



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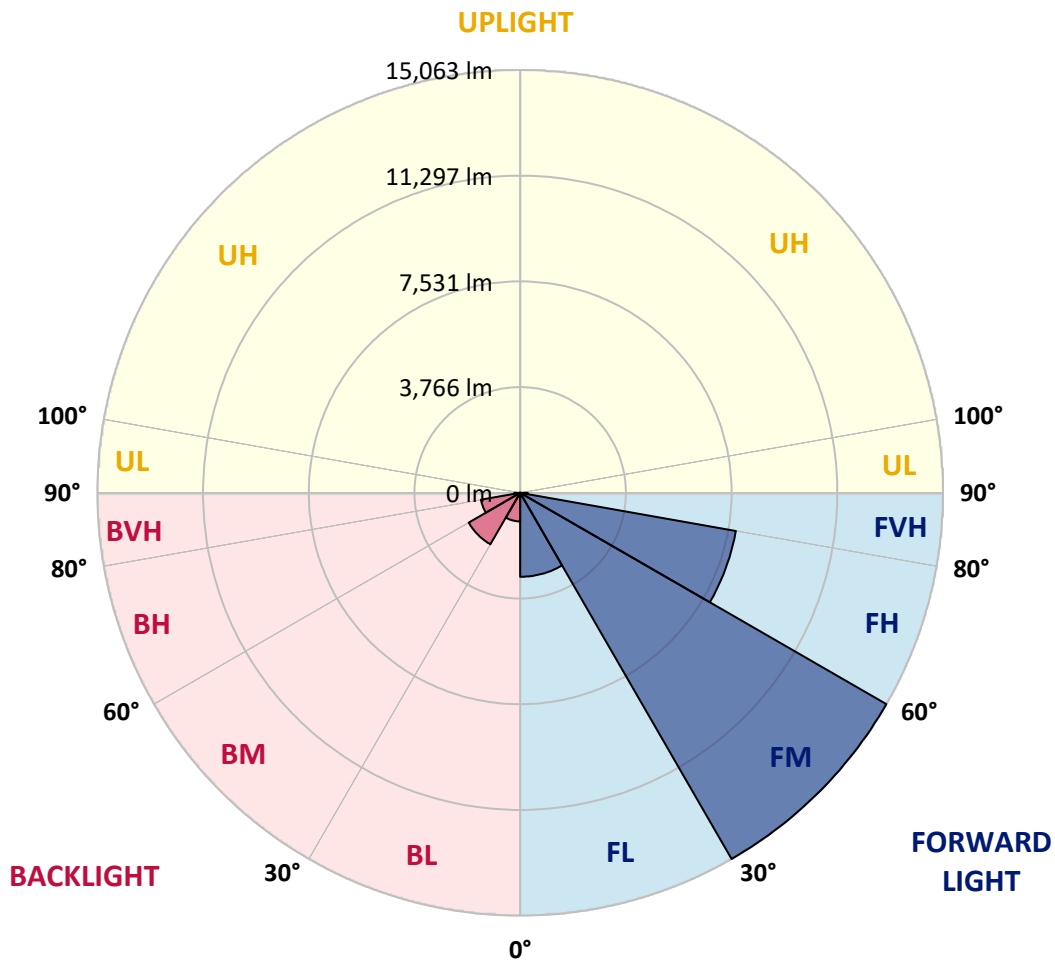
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2991.0  | 9.7       |                         |      |          |
| FM   | (30°-60°)   | 15062.7 | 48.8      |                         |      |          |
| FH   | (60°-80°)   | 7801.1  | 25.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 267.3   | 0.9       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1018.3  | 3.3       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2119.4  | 6.9       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1415.5  | 4.6       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 208.3   | 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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 57°     | 58°     | 59°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2509.9  | 2509.9  | 2509.9  | 2509.9  | 2509.9  | 2509.9  | 2509.9  | 2509.9  | 2509.9  | 2509.9  | 2509.9  |
| 2.5°  | 3186.8  | 3151.7  | 3160.3  | 3101.8  | 3030.3  | 2936.6  | 2832.9  | 2831.6  | 2832.9  | 2822.5  | 2784.8  |
| 5°    | 4418.8  | 4376.7  | 4360.7  | 4228.8  | 4035.9  | 3761.4  | 3463.0  | 3430.9  | 3417.5  | 3384.1  | 3306.5  |
| 7.5°  | 5318.1  | 5294.7  | 5269.6  | 5170.3  | 4995.1  | 4688.0  | 4287.4  | 4218.9  | 4152.9  | 4136.9  | 4049.3  |
| 10°   | 5898.3  | 5892.3  | 5839.8  | 5813.3  | 5704.1  | 5437.8  | 5047.5  | 4981.6  | 4910.1  | 4885.4  | 4793.0  |
| 12.5° | 6357.1  | 6355.8  | 6331.1  | 6338.5  | 6243.1  | 6050.5  | 5714.0  | 5654.2  | 5601.7  | 5525.4  | 5459.9  |
| 15°   | 6674.5  | 6675.8  | 6712.7  | 6753.5  | 6738.7  | 6608.6  | 6292.9  | 6266.5  | 6221.4  | 6168.9  | 6091.3  |
| 17.5° | 6934.7  | 6942.1  | 6979.8  | 7054.4  | 7135.1  | 7124.7  | 6874.9  | 6852.8  | 6813.3  | 6741.7  | 6701.0  |
| 20°   | 7522.3  | 7550.0  | 7477.2  | 7477.2  | 7485.9  | 7525.3  | 7405.2  | 7387.9  | 7332.4  | 7294.2  | 7262.1  |
| 22.5° | 8514.9  | 8547.0  | 8381.8  | 8213.9  | 8048.7  | 7928.6  | 7808.9  | 7830.6  | 7792.9  | 7766.4  | 7747.4  |
| 25°   | 9804.1  | 9829.2  | 9561.7  | 9278.1  | 8941.6  | 8503.2  | 8206.6  | 8193.1  | 8172.8  | 8156.7  | 8148.0  |
| 27.5° | 11017.4 | 11027.8 | 10775.0 | 10359.6 | 9969.3  | 9339.2  | 8609.9  | 8593.8  | 8569.1  | 8538.3  | 8511.9  |
| 30°   | 12055.5 | 12052.5 | 11792.3 | 11396.0 | 10977.9 | 10280.7 | 9222.6  | 9172.7  | 9099.4  | 9016.2  | 8952.0  |
| 32.5° | 12954.5 | 12950.1 | 12664.8 | 12254.1 | 11815.7 | 11213.4 | 10061.7 | 9959.3  | 9845.3  | 9682.7  | 9585.1  |
| 35°   | 13661.7 | 13659.1 | 13389.8 | 12961.8 | 12458.8 | 12092.0 | 11023.5 | 10897.7 | 10752.9 | 10535.2 | 10384.7 |
| 37.5° | 13929.3 | 13929.3 | 13778.8 | 13486.5 | 13042.1 | 12790.5 | 12092.0 | 11939.8 | 11784.9 | 11537.8 | 11368.2 |
| 40°   | 13772.7 | 13775.8 | 13807.9 | 13754.1 | 13537.7 | 13344.7 | 13088.9 | 12998.3 | 12865.1 | 12643.1 | 12466.2 |
| 42.5° | 13248.0 | 13264.1 | 13477.9 | 13739.3 | 13847.3 | 13817.0 | 13973.1 | 13932.3 | 13838.6 | 13667.8 | 13527.3 |
| 45°   | 12582.8 | 12632.7 | 12866.4 | 13360.8 | 13933.6 | 14224.6 | 14714.2 | 14718.5 | 14701.2 | 14609.2 | 14500.8 |
| 47.5° | 11669.6 | 11739.4 | 12048.2 | 12716.0 | 13732.0 | 14620.9 | 15467.0 | 15506.4 | 15543.3 | 15483.4 | 15433.6 |
| 50°   | 10456.3 | 10539.5 | 11001.4 | 11887.3 | 13321.3 | 15031.6 | 16889.3 | 17067.9 | 17234.5 | 17214.1 | 17247.5 |
| 52.5° | 9156.7  | 9254.7  | 9820.1  | 10807.1 | 12615.4 | 15126.5 | 17798.6 | 18089.6 | 18380.6 | 18618.6 | 18871.4 |
| 55°   | 7984.1  | 7931.6  | 8497.5  | 9536.5  | 11454.5 | 14698.1 | 18616.0 | 18966.8 | 19291.2 | 19583.5 | 19884.8 |
| 57.5° | 6395.3  | 6481.6  | 7048.8  | 8076.5  | 9918.1  | 13489.1 | 19178.4 | 19691.9 | 20158.0 | 20642.0 | 21068.7 |
| 60°   | 4674.6  | 4760.9  | 5376.2  | 6420.0  | 8250.4  | 11656.2 | 18748.7 | 19526.7 | 20273.4 | 21014.5 | 21593.4 |
| 62.5° | 2822.5  | 2887.2  | 3429.2  | 4423.5  | 6361.9  | 9482.8  | 16833.8 | 17854.1 | 18953.4 | 19839.3 | 20726.5 |
| 65°   | 1757.1  | 1793.5  | 1993.9  | 2540.7  | 4085.7  | 7079.6  | 13754.1 | 14866.4 | 16050.2 | 17174.6 | 18097.0 |
| 67.5° | 1438.4  | 1451.4  | 1488.2  | 1604.9  | 2243.6  | 4616.5  | 10236.9 | 11222.1 | 12290.6 | 13378.1 | 14404.5 |
| 70°   | 1293.5  | 1284.9  | 1284.9  | 1292.2  | 1438.4  | 2482.1  | 6702.3  | 7344.1  | 8234.3  | 9180.1  | 10118.5 |
| 72.5° | 1167.8  | 1159.1  | 1143.1  | 1121.4  | 1173.9  | 1514.3  | 3464.3  | 3948.3  | 4590.0  | 5430.4  | 6329.4  |
| 75°   | 1049.4  | 1037.7  | 1019.0  | 991.3   | 1027.7  | 1143.1  | 1663.4  | 1866.8  | 2179.5  | 2627.0  | 3128.3  |
| 77.5° | 926.7   | 911.9   | 894.6   | 874.2   | 921.0   | 889.0   | 974.8   | 1048.1  | 1167.8  | 1311.3  | 1499.9  |
| 80°   | 787.9   | 774.9   | 768.8   | 758.9   | 814.4   | 676.9   | 688.6   | 733.7   | 804.0   | 881.6   | 969.2   |
| 82.5° | 617.1   | 617.1   | 640.0   | 644.8   | 706.0   | 487.0   | 514.7   | 554.2   | 590.6   | 631.4   | 672.6   |
| 85°   | 406.3   | 409.4   | 488.3   | 519.1   | 556.8   | 327.4   | 385.9   | 398.9   | 428.4   | 451.8   | 469.2   |
| 87.5° | 127.1   | 137.5   | 298.3   | 330.4   | 320.0   | 185.6   | 236.8   | 242.8   | 263.2   | 279.3   | 294.0   |
| 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):**

|       | 60°     | 61°     | 62°     | 63°     | 64°     | 65°     | 66°     | 67°     | 68°     | 69°     | 70°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2509.9  | 2509.9  | 2509.9  | 2509.9  | 2509.9  | 2509.9  | 2509.9  | 2509.9  | 2509.9  | 2509.9  | 2509.9  |
| 2.5°  | 2784.8  | 2767.0  | 2751.0  | 2749.7  | 2738.0  | 2721.9  | 2727.6  | 2702.9  | 2704.2  | 2691.1  | 2676.4  |
| 5°    | 3274.4  | 3262.7  | 3204.1  | 3188.1  | 3144.3  | 3116.5  | 3112.2  | 3053.7  | 3046.3  | 3012.9  | 2976.0  |
| 7.5°  | 3979.1  | 3940.9  | 3858.9  | 3819.5  | 3744.9  | 3689.4  | 3663.4  | 3585.7  | 3547.6  | 3460.0  | 3420.5  |
| 10°   | 4717.1  | 4669.0  | 4567.9  | 4512.4  | 4440.9  | 4351.5  | 4303.4  | 4191.1  | 4146.9  | 4066.6  | 3970.4  |
| 12.5° | 5401.4  | 5353.2  | 5249.2  | 5206.7  | 5111.7  | 5016.7  | 4964.3  | 4837.2  | 4780.0  | 4651.2  | 4575.3  |
| 15°   | 6034.1  | 5985.9  | 5895.3  | 5851.5  | 5756.5  | 5678.9  | 5608.7  | 5483.3  | 5416.1  | 5296.0  | 5196.7  |
| 17.5° | 6648.1  | 6596.9  | 6518.0  | 6478.5  | 6386.6  | 6307.7  | 6231.8  | 6113.0  | 6044.5  | 5924.8  | 5835.4  |
| 20°   | 7218.3  | 7180.2  | 7123.3  | 7070.4  | 6978.5  | 6907.0  | 6816.3  | 6714.0  | 6614.7  | 6526.7  | 6442.1  |
| 22.5° | 7715.3  | 7700.5  | 7639.4  | 7616.0  | 7537.0  | 7475.5  | 7396.5  | 7295.9  | 7224.0  | 7112.9  | 7034.0  |
| 25°   | 8143.7  | 8139.4  | 8109.9  | 8102.5  | 8047.0  | 7988.5  | 7971.1  | 7887.9  | 7821.9  | 7723.9  | 7642.4  |
| 27.5° | 8511.9  | 8516.2  | 8509.3  | 8529.6  | 8514.9  | 8488.4  | 8490.2  | 8462.4  | 8424.3  | 8342.3  | 8270.8  |
| 30°   | 8921.2  | 8897.8  | 8911.2  | 8940.3  | 8949.0  | 8952.0  | 9000.1  | 9016.2  | 9013.6  | 8959.4  | 8924.2  |
| 32.5° | 9500.1  | 9444.6  | 9393.4  | 9389.1  | 9418.2  | 9429.9  | 9511.8  | 9554.3  | 9590.7  | 9603.8  | 9609.8  |
| 35°   | 10238.2 | 10127.2 | 10020.5 | 9963.7  | 9913.8  | 9926.8  | 9985.4  | 10054.3 | 10134.5 | 10190.0 | 10255.9 |
| 37.5° | 11167.9 | 11032.2 | 10843.5 | 10709.1 | 10675.3 | 10602.4 | 10640.1 | 10694.3 | 10773.3 | 10859.6 | 10973.6 |
| 40°   | 12294.9 | 12088.9 | 11876.9 | 11698.7 | 11602.4 | 11467.5 | 11466.2 | 11455.8 | 11504.4 | 11584.6 | 11745.5 |
| 42.5° | 13379.9 | 13196.9 | 12971.8 | 12784.9 | 12659.2 | 12479.2 | 12442.8 | 12347.8 | 12369.5 | 12439.7 | 12596.3 |
| 45°   | 14395.4 | 14245.0 | 14107.5 | 13891.6 | 13784.4 | 13590.2 | 13528.6 | 13416.3 | 13353.4 | 13385.5 | 13542.0 |
| 47.5° | 15379.4 | 15283.1 | 15139.6 | 14999.5 | 14917.5 | 14743.6 | 14664.7 | 14584.1 | 14503.8 | 14500.8 | 14664.7 |
| 50°   | 17297.3 | 17246.2 | 17076.6 | 16930.5 | 16969.9 | 16756.6 | 16769.6 | 16553.2 | 16651.2 | 16662.9 | 17006.4 |
| 52.5° | 19099.5 | 19278.2 | 19403.9 | 19557.0 | 19656.8 | 19675.8 | 19741.3 | 19839.3 | 19957.7 | 20191.4 | 20510.1 |
| 55°   | 20131.6 | 20355.3 | 20485.4 | 20602.5 | 20795.5 | 20836.2 | 20946.0 | 21076.0 | 21179.7 | 21442.9 | 21713.5 |
| 57.5° | 21358.3 | 21773.3 | 21975.0 | 22160.6 | 22420.8 | 22520.1 | 22703.0 | 22844.8 | 22979.3 | 23290.6 | 23618.0 |
| 60°   | 22113.7 | 22619.8 | 23030.4 | 23324.0 | 23650.1 | 23884.3 | 24160.5 | 24382.5 | 24698.2 | 25071.1 | 25559.4 |
| 62.5° | 21513.1 | 22255.5 | 22801.1 | 23305.4 | 23748.1 | 24195.6 | 24591.5 | 25007.0 | 25486.1 | 26050.3 | 26807.9 |
| 65°   | 19120.3 | 19875.7 | 20809.8 | 21333.2 | 21919.5 | 22609.4 | 23211.7 | 23884.3 | 24537.3 | 25359.1 | 26478.7 |
| 67.5° | 15392.8 | 16270.9 | 17320.8 | 17848.5 | 18522.4 | 19292.5 | 19968.1 | 20789.4 | 21552.6 | 22547.8 | 23932.4 |
| 70°   | 11095.0 | 12230.7 | 13113.6 | 13664.8 | 14451.4 | 15244.9 | 15897.1 | 16852.9 | 17484.2 | 18504.6 | 19936.0 |
| 72.5° | 7025.3  | 7921.2  | 9003.2  | 9697.4  | 10396.0 | 11200.4 | 11866.9 | 12691.2 | 13280.1 | 14209.8 | 15506.4 |
| 75°   | 3777.4  | 4437.8  | 5387.9  | 6047.5  | 6796.0  | 7482.8  | 8263.4  | 8815.8  | 9251.6  | 9987.1  | 11039.5 |
| 77.5° | 1770.1  | 2172.1  | 2653.0  | 3160.3  | 3667.7  | 4196.7  | 4711.5  | 5158.5  | 5345.9  | 5766.9  | 6387.9  |
| 80°   | 1074.6  | 1204.6  | 1344.7  | 1501.3  | 1713.3  | 1884.2  | 2110.9  | 2274.4  | 2286.1  | 2419.3  | 2609.2  |
| 82.5° | 717.7   | 765.8   | 808.3   | 847.8   | 902.0   | 944.5   | 992.6   | 1049.4  | 1072.8  | 1103.6  | 1165.2  |
| 85°   | 489.6   | 513.0   | 521.7   | 546.8   | 540.7   | 555.5   | 574.6   | 593.6   | 603.6   | 602.3   | 630.1   |
| 87.5° | 300.9   | 312.7   | 318.7   | 324.4   | 320.0   | 314.4   | 323.1   | 333.5   | 336.1   | 327.4   | 330.4   |
| 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):**

|       | 71°     | 72°     | 73°     | 74°     | 75°     | 85°     | 90°     | 95°    | 105°   | 115°   | 125°   |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 2509.9  | 2509.9  | 2509.9  | 2509.9  | 2509.9  | 2509.9  | 2509.9  | 2509.9 | 2509.9 | 2509.9 | 2509.9 |
| 2.5°  | 2679.4  | 2666.4  | 2653.0  | 2644.3  | 2641.3  | 2564.1  | 2530.3  | 2508.6 | 2461.8 | 2423.6 | 2392.8 |
| 5°    | 2955.7  | 2927.9  | 2906.2  | 2879.8  | 2865.0  | 2669.0  | 2597.5  | 2548.0 | 2466.1 | 2418.0 | 2373.7 |
| 7.5°  | 3400.1  | 3322.5  | 3277.4  | 3226.3  | 3182.5  | 2828.6  | 2710.2  | 2632.6 | 2518.6 | 2454.4 | 2404.5 |
| 10°   | 3904.5  | 3824.2  | 3752.3  | 3673.3  | 3604.8  | 3040.7  | 2868.1  | 2748.0 | 2597.5 | 2514.2 | 2448.3 |
| 12.5° | 4467.3  | 4388.4  | 4297.8  | 4196.7  | 4109.1  | 3309.5  | 3069.7  | 2898.9 | 2692.5 | 2581.4 | 2489.5 |
| 15°   | 5132.5  | 4993.3  | 4883.6  | 4767.0  | 4664.6  | 3631.3  | 3305.2  | 3068.4 | 2793.5 | 2643.0 | 2520.3 |
| 17.5° | 5750.5  | 5604.3  | 5455.6  | 5353.2  | 5234.9  | 3992.1  | 3541.9  | 3240.6 | 2876.7 | 2682.5 | 2525.9 |
| 20°   | 6354.5  | 6194.9  | 6066.6  | 5929.1  | 5804.7  | 4366.3  | 3794.8  | 3392.8 | 2931.0 | 2683.8 | 2489.5 |
| 22.5° | 6886.6  | 6786.8  | 6643.7  | 6494.6  | 6368.8  | 4740.5  | 4031.5  | 3521.6 | 2951.3 | 2650.4 | 2424.9 |
| 25°   | 7491.5  | 7386.6  | 7210.9  | 7085.2  | 6945.1  | 5122.1  | 4263.9  | 3620.9 | 2939.6 | 2587.5 | 2325.6 |
| 27.5° | 8137.6  | 8021.0  | 7841.0  | 7709.6  | 7540.1  | 5518.0  | 4477.3  | 3692.4 | 2895.8 | 2485.2 | 2192.5 |
| 30°   | 8811.5  | 8704.8  | 8527.9  | 8395.2  | 8223.9  | 5937.8  | 4715.8  | 3740.6 | 2808.2 | 2343.4 | 2037.7 |
| 32.5° | 9535.2  | 9445.9  | 9270.7  | 9132.0  | 8949.0  | 6392.2  | 4937.8  | 3755.3 | 2675.1 | 2175.1 | 1874.2 |
| 35°   | 10222.1 | 10161.0 | 10013.1 | 9883.0  | 9693.1  | 6822.0  | 5173.3  | 3747.9 | 2517.3 | 1990.8 | 1725.0 |
| 37.5° | 10995.7 | 10958.9 | 10886.0 | 10720.8 | 10488.4 | 7405.2  | 5455.6  | 3717.1 | 2324.3 | 1808.3 | 1611.0 |
| 40°   | 11820.1 | 11823.1 | 11744.2 | 11631.4 | 11415.1 | 8112.9  | 5791.7  | 3657.3 | 2113.5 | 1647.4 | 1506.9 |
| 42.5° | 12692.5 | 12738.1 | 12699.9 | 12619.7 | 12412.0 | 8826.2  | 6193.6  | 3584.4 | 1909.3 | 1490.8 | 1405.0 |
| 45°   | 13692.5 | 13748.0 | 13806.6 | 13688.2 | 13486.5 | 9767.7  | 6722.7  | 3489.5 | 1688.1 | 1360.8 | 1334.7 |
| 47.5° | 14846.0 | 14933.6 | 14986.1 | 14987.8 | 14786.1 | 10934.1 | 7582.1  | 3432.2 | 1492.6 | 1273.2 | 1300.9 |
| 50°   | 17279.6 | 17307.7 | 17431.8 | 17648.1 | 17493.3 | 13634.0 | 9083.4  | 3397.1 | 1359.5 | 1219.0 | 1276.2 |
| 52.5° | 20786.4 | 21092.1 | 21307.2 | 21292.4 | 21081.7 | 15348.6 | 9910.8  | 3215.8 | 1280.5 | 1198.6 | 1264.5 |
| 55°   | 22214.8 | 22596.4 | 22994.0 | 23099.0 | 22935.5 | 16812.1 | 10693.0 | 3034.6 | 1242.4 | 1213.3 | 1268.8 |
| 57.5° | 24118.0 | 24761.1 | 25306.6 | 25536.0 | 25299.2 | 18684.5 | 11722.1 | 2939.6 | 1230.7 | 1252.8 | 1296.6 |
| 60°   | 26341.3 | 27136.6 | 27852.9 | 28264.9 | 28264.9 | 20836.2 | 12789.2 | 2900.2 | 1214.6 | 1311.3 | 1343.4 |
| 62.5° | 27769.7 | 28937.4 | 30019.4 | 30623.0 | 30605.2 | 22334.5 | 13262.8 | 2765.7 | 1178.2 | 1352.1 | 1407.6 |
| 65°   | 27775.3 | 29164.2 | 30542.3 | 31221.0 | 31255.7 | 22150.6 | 12480.9 | 2442.7 | 1111.0 | 1358.2 | 1472.2 |
| 67.5° | 25460.1 | 26940.5 | 28547.2 | 29306.0 | 29481.2 | 20390.5 | 10804.1 | 2008.6 | 1001.3 | 1299.6 | 1495.6 |
| 70°   | 21502.7 | 22948.5 | 24588.5 | 25334.4 | 25645.7 | 17381.9 | 8701.8  | 1548.1 | 861.2  | 1170.8 | 1447.0 |
| 72.5° | 16940.5 | 18358.4 | 19500.2 | 20045.3 | 20288.1 | 13286.2 | 6336.7  | 1169.5 | 706.0  | 986.5  | 1317.0 |
| 75°   | 11994.0 | 13058.1 | 13664.8 | 13786.2 | 13823.9 | 8009.3  | 3850.3  | 869.9  | 581.9  | 767.5  | 1112.3 |
| 77.5° | 6769.5  | 7225.7  | 7175.8  | 7230.0  | 6779.9  | 3091.8  | 1676.9  | 622.7  | 479.6  | 583.2  | 862.5  |
| 80°   | 2643.0  | 2725.0  | 2559.8  | 2508.6  | 2300.9  | 1150.4  | 739.8   | 434.1  | 382.9  | 441.4  | 603.6  |
| 82.5° | 1165.2  | 1202.9  | 1167.8  | 1176.9  | 1125.7  | 593.6   | 442.7   | 314.4  | 292.3  | 323.1  | 400.7  |
| 85°   | 641.8   | 653.5   | 650.5   | 669.5   | 641.8   | 236.8   | 210.3   | 193.0  | 204.7  | 219.4  | 257.1  |
| 87.5° | 312.7   | 315.7   | 305.7   | 321.8   | 311.4   | 119.7   | 103.6   | 109.7  | 119.7  | 122.7  | 122.7  |
| 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°    | 2509.9 | 2509.9 | 2509.9 | 2509.9 | 2509.9 | 2509.9 |
| 2.5°  | 2371.1 | 2359.4 | 2360.7 | 2357.7 | 2352.0 | 2352.0 |
| 5°    | 2350.7 | 2339.0 | 2339.0 | 2336.0 | 2328.6 | 2329.9 |
| 7.5°  | 2371.1 | 2352.0 | 2344.7 | 2334.3 | 2324.3 | 2324.3 |
| 10°   | 2394.5 | 2360.7 | 2340.3 | 2323.0 | 2309.5 | 2309.5 |
| 12.5° | 2411.9 | 2359.4 | 2325.6 | 2302.2 | 2289.2 | 2289.2 |
| 15°   | 2418.0 | 2349.0 | 2302.2 | 2274.4 | 2262.7 | 2261.4 |
| 17.5° | 2398.9 | 2309.5 | 2252.7 | 2220.7 | 2205.9 | 2201.6 |
| 20°   | 2340.3 | 2238.0 | 2169.5 | 2132.6 | 2112.2 | 2104.9 |
| 22.5° | 2252.7 | 2135.7 | 2055.4 | 2017.3 | 1990.8 | 1986.5 |
| 25°   | 2130.0 | 2004.3 | 1925.3 | 1888.5 | 1874.2 | 1869.4 |
| 27.5° | 1986.5 | 1869.4 | 1802.2 | 1778.8 | 1765.8 | 1764.5 |
| 30°   | 1850.8 | 1751.0 | 1701.6 | 1683.8 | 1667.8 | 1665.2 |
| 32.5° | 1723.3 | 1660.4 | 1641.7 | 1616.6 | 1578.9 | 1574.5 |
| 35°   | 1632.6 | 1627.0 | 1614.0 | 1558.1 | 1511.7 | 1498.2 |
| 37.5° | 1577.1 | 1631.3 | 1564.1 | 1454.4 | 1421.0 | 1418.0 |
| 40°   | 1545.0 | 1586.2 | 1470.5 | 1432.7 | 1435.3 | 1432.7 |
| 42.5° | 1472.2 | 1514.3 | 1473.5 | 1456.2 | 1467.4 | 1470.5 |
| 45°   | 1398.9 | 1445.7 | 1495.6 | 1483.9 | 1511.7 | 1511.7 |
| 47.5° | 1358.2 | 1428.0 | 1493.9 | 1493.9 | 1535.1 | 1549.4 |
| 50°   | 1311.3 | 1413.7 | 1470.5 | 1490.8 | 1523.4 | 1511.7 |
| 52.5° | 1308.3 | 1388.5 | 1437.1 | 1473.5 | 1488.2 | 1474.8 |
| 55°   | 1312.6 | 1368.1 | 1403.2 | 1444.4 | 1461.8 | 1463.1 |
| 57.5° | 1318.7 | 1356.4 | 1379.8 | 1398.9 | 1451.4 | 1451.4 |
| 60°   | 1333.0 | 1346.4 | 1359.5 | 1369.9 | 1438.4 | 1439.7 |
| 62.5° | 1356.4 | 1336.0 | 1333.0 | 1343.4 | 1431.0 | 1425.4 |
| 65°   | 1393.3 | 1321.3 | 1299.6 | 1309.6 | 1423.6 | 1406.3 |
| 67.5° | 1442.7 | 1299.6 | 1257.1 | 1264.5 | 1418.0 | 1379.8 |
| 70°   | 1488.2 | 1264.5 | 1204.6 | 1197.3 | 1362.5 | 1295.3 |
| 72.5° | 1492.6 | 1223.7 | 1131.4 | 1109.7 | 1184.3 | 1119.6 |
| 75°   | 1419.3 | 1195.5 | 1051.1 | 986.5  | 977.9  | 969.2  |
| 77.5° | 1279.2 | 1179.5 | 957.5  | 856.4  | 839.1  | 844.7  |
| 80°   | 1070.2 | 1119.6 | 844.7  | 725.0  | 820.0  | 810.0  |
| 82.5° | 799.6  | 988.3  | 717.7  | 641.8  | 640.0  | 565.9  |
| 85°   | 444.5  | 770.6  | 584.5  | 480.9  | 334.8  | 324.4  |
| 87.5° | 124.5  | 428.4  | 409.4  | 271.9  | 185.6  | 193.0  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)