

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: P298967

Luminaire Tested: **GAA-AF-09-LED-U-SLL-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298967  
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: STREETWORKS  
Catalog Number: GAA-AF-09-LED-U-SLL-7050-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill  
Light Eliminator Left OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

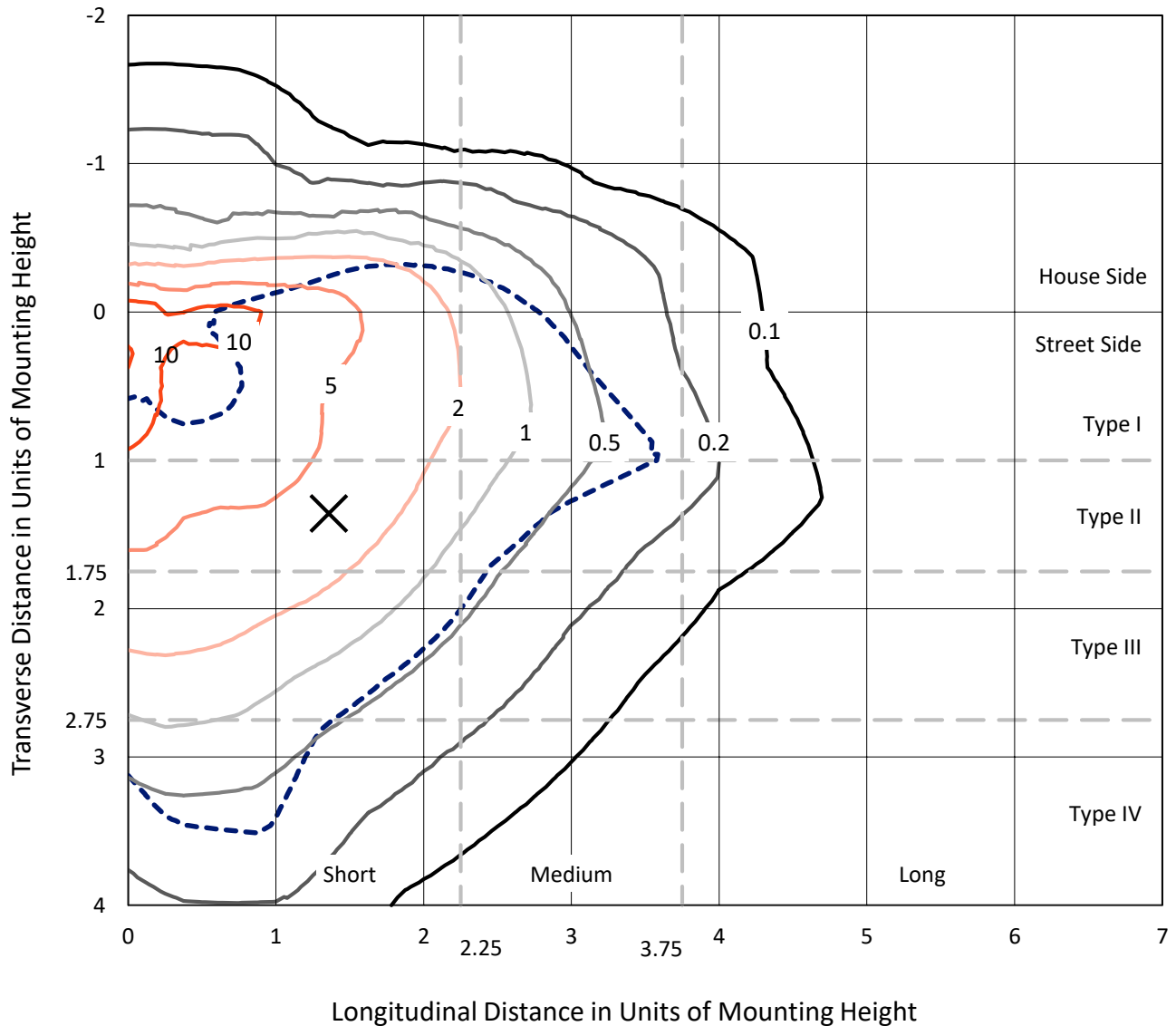
Lumens per Lamp: N/A  
Luminaire Lumens: 37657 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (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

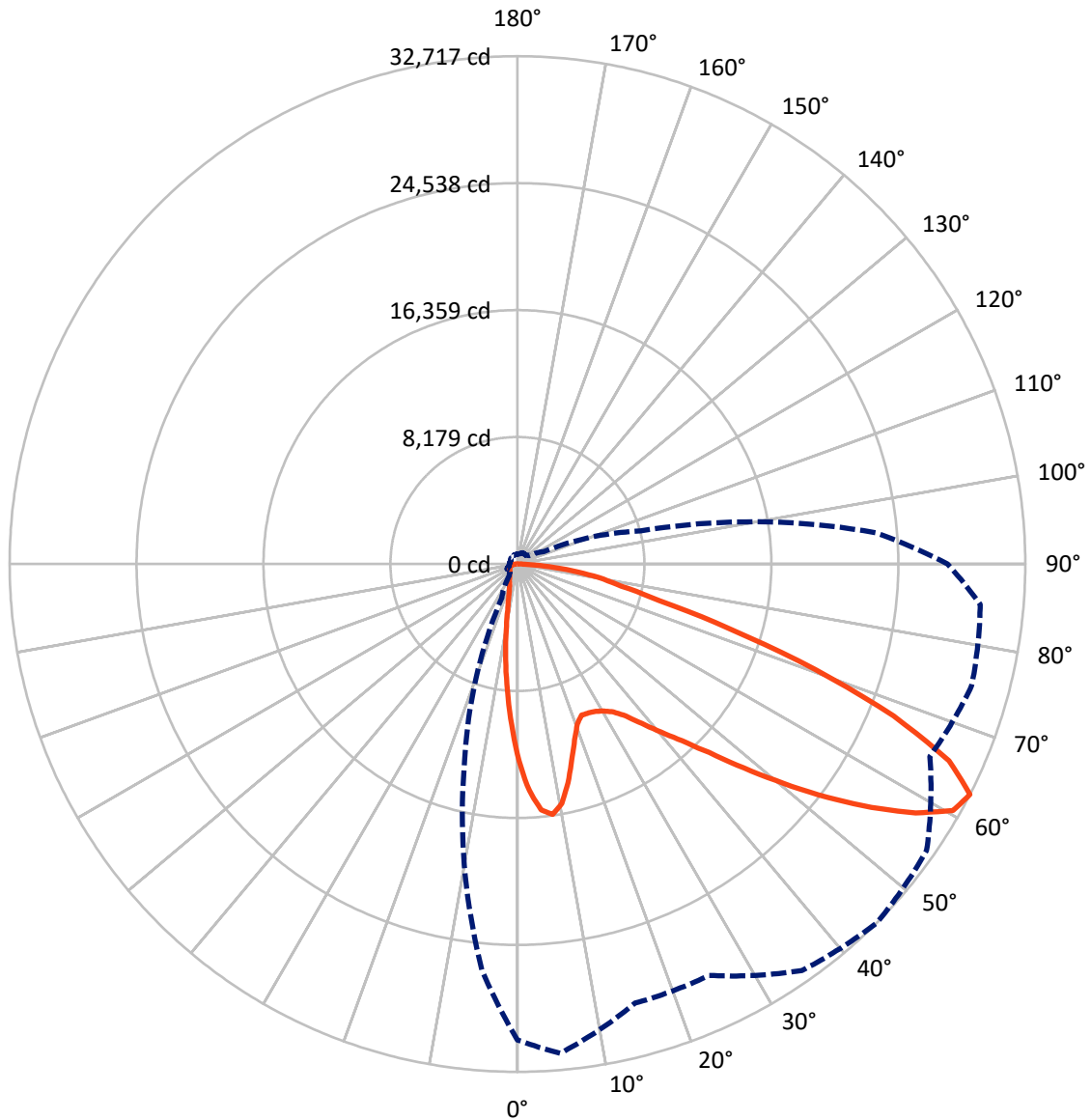
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.6 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    | 6231.7   | 0.0    | 6231.7  |
|                    | % Fixture | 16.5     | 0.0    | 16.5    |
| <b>Street Side</b> | Lumens    | 31425.3  | 0.0    | 31425.3 |
|                    | % Fixture | 83.5     | 0.0    | 83.5    |
| <b>Total</b>       | Lumens    | 37657.0  | 0.0    | 37657.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 926.1   | 2.5       |
| 10°-20°   | 1698.3  | 4.5       |
| 20°-30°   | 2476.1  | 6.6       |
| 30°-40°   | 3813.6  | 10.1      |
| 40°-50°   | 5612.6  | 14.9      |
| 50°-60°   | 8232.5  | 21.9      |
| 60°-70°   | 9202.7  | 24.4      |
| 70°-80°   | 4505.5  | 12.0      |
| 80°-90°   | 1189.6  | 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°    | 37657.0 | 100.0     |
| 0°-180°   | 37657.0 | 100.0     |

**Coefficient of Utilization**



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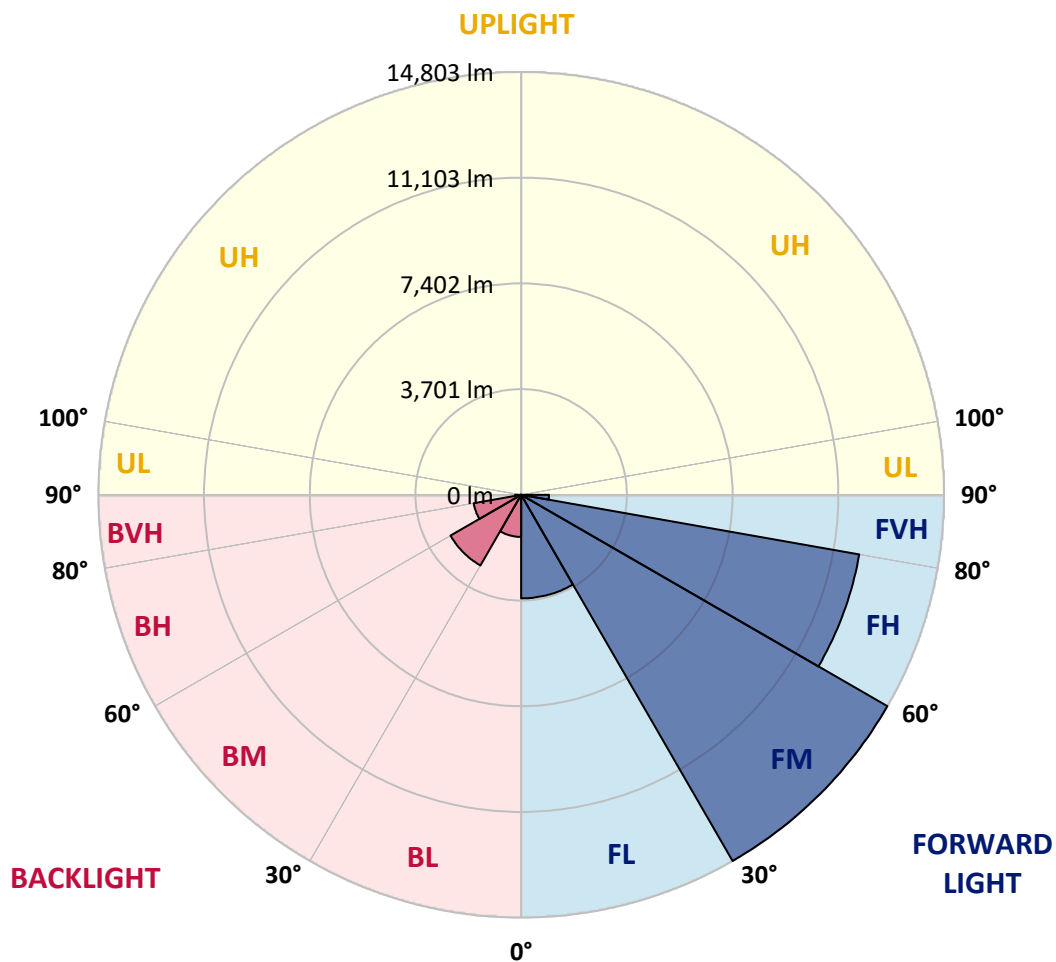
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3626.3  | 9.6       |                         |      |         |
| FM (30°-60°)   | 14803.3 | 39.3      |                         |      |         |
| FH (60°-80°)   | 12018.8 | 31.9      |                         |      | G5      |
| FVH (80°-90°)  | 976.9   | 2.6       |                         |      | G5      |
| BL (0°-30°)    | 1474.3  | 3.9       | B3/2500                 |      |         |
| BM (30°-60°)   | 2855.3  | 7.6       | B3/5000                 |      |         |
| BH (60°-80°)   | 1689.4  | 4.5       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 212.7   | 0.6       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12723.0 | 12723.0 | 12723.0 | 12723.0 | 12723.0 | 12723.0 | 12723.0 | 12723.0 | 12723.0 | 12723.0 | 12723.0 |
| 2.5°  | 13218.9 | 13430.6 | 13842.5 | 14150.3 | 14526.0 | 14612.7 | 14732.9 | 14614.7 | 14405.7 | 14128.1 | 14037.4 |
| 5°    | 12430.7 | 12882.3 | 13881.5 | 14761.8 | 15544.1 | 15908.3 | 16010.4 | 15709.4 | 15103.2 | 14306.2 | 13819.7 |
| 7.5°  | 11166.0 | 11807.7 | 13161.1 | 14457.4 | 15609.9 | 16291.3 | 16274.5 | 15577.0 | 14461.5 | 13163.2 | 12383.0 |
| 10°   | 10074.6 | 10807.8 | 12360.8 | 13809.6 | 15032.7 | 15693.2 | 15437.9 | 14546.8 | 13214.9 | 11720.4 | 10874.3 |
| 12.5° | 9464.5  | 10182.8 | 11758.0 | 13212.9 | 14235.7 | 14463.5 | 14268.6 | 13395.0 | 12140.4 | 10629.7 | 9888.5  |
| 15°   | 9358.3  | 10147.9 | 11518.1 | 12702.2 | 13275.4 | 13077.1 | 12844.6 | 12453.5 | 11567.2 | 10277.6 | 9505.5  |
| 17.5° | 9816.6  | 10685.5 | 11793.6 | 12346.0 | 12248.6 | 11902.5 | 11836.6 | 11880.3 | 11667.3 | 10668.7 | 9779.0  |
| 20°   | 10694.2 | 11737.2 | 12449.5 | 12178.7 | 11468.4 | 10991.9 | 11008.7 | 11673.3 | 12304.3 | 11660.6 | 10643.8 |
| 22.5° | 11925.3 | 13116.1 | 13395.0 | 12267.4 | 11139.1 | 10573.9 | 10711.0 | 11787.6 | 13321.1 | 13110.1 | 11811.8 |
| 25°   | 13519.3 | 14604.6 | 14403.7 | 12589.9 | 11172.0 | 10625.7 | 10735.2 | 12180.7 | 14521.3 | 14558.9 | 13257.2 |
| 27.5° | 15063.6 | 16070.2 | 15249.7 | 13018.7 | 11309.1 | 10748.0 | 10893.1 | 12798.9 | 15668.4 | 16132.1 | 14909.0 |
| 30°   | 16268.5 | 16968.7 | 15585.0 | 13409.8 | 11577.9 | 10985.9 | 11166.0 | 13386.9 | 16190.5 | 17193.8 | 16179.8 |
| 32.5° | 17266.4 | 17769.0 | 16119.3 | 13894.3 | 12072.5 | 11360.2 | 11677.4 | 14101.3 | 16941.8 | 18204.5 | 17423.6 |
| 35°   | 18541.2 | 18684.3 | 16783.9 | 14434.6 | 12836.6 | 12012.7 | 12405.8 | 14800.8 | 17658.2 | 19224.6 | 18649.4 |
| 37.5° | 20036.4 | 19852.2 | 17410.9 | 15173.8 | 13824.4 | 13032.8 | 13358.0 | 15568.9 | 18247.5 | 20381.8 | 19901.3 |
| 40°   | 21514.1 | 21070.6 | 18198.5 | 16320.2 | 15265.2 | 14235.7 | 14620.7 | 16388.8 | 18798.6 | 21541.0 | 21125.0 |
| 42.5° | 22770.7 | 22114.2 | 18973.9 | 17580.9 | 16605.8 | 15562.9 | 16022.5 | 17214.6 | 19324.1 | 22530.2 | 22186.8 |
| 45°   | 23700.1 | 22884.3 | 19713.1 | 18791.8 | 18454.5 | 17326.2 | 17543.9 | 18160.2 | 19893.2 | 23356.7 | 23060.4 |
| 47.5° | 24530.0 | 23658.5 | 20549.1 | 20013.5 | 20071.3 | 19619.7 | 19269.6 | 19261.6 | 20564.6 | 24031.4 | 23886.3 |
| 50°   | 25641.5 | 24733.0 | 21447.6 | 21271.5 | 22497.2 | 22196.9 | 21424.7 | 20547.1 | 21412.6 | 24797.5 | 24780.7 |
| 52.5° | 27173.7 | 26435.2 | 22545.0 | 22627.6 | 24762.6 | 24958.8 | 24001.9 | 22092.0 | 22741.2 | 26202.7 | 26103.9 |
| 55°   | 28985.4 | 28554.0 | 24040.2 | 24186.7 | 27539.9 | 27681.1 | 26730.2 | 24022.7 | 24696.0 | 28238.1 | 27962.6 |
| 57.5° | 30398.6 | 30307.9 | 25679.2 | 26058.2 | 29614.4 | 30248.1 | 29374.5 | 26259.1 | 26898.2 | 29951.7 | 29260.3 |
| 60°   | 30961.8 | 31402.6 | 27424.4 | 27945.8 | 31533.6 | 32234.5 | 31469.1 | 28222.7 | 28850.3 | 30662.1 | 29171.6 |
| 62.5° | 30658.0 | 31642.5 | 29283.1 | 29239.4 | 31961.7 | 32717.0 | 32178.8 | 29316.0 | 30297.8 | 29928.9 | 27695.8 |
| 65°   | 29252.2 | 30779.7 | 30361.7 | 28906.1 | 30496.1 | 30557.9 | 30383.8 | 28827.5 | 30639.2 | 27612.5 | 24842.5 |
| 67.5° | 26189.9 | 28388.7 | 28941.1 | 26050.1 | 26542.0 | 26138.8 | 25846.5 | 26152.9 | 28858.4 | 24141.0 | 20878.4 |
| 70°   | 21332.0 | 24640.3 | 24904.4 | 20835.4 | 20611.6 | 20340.1 | 19758.8 | 21441.5 | 25345.9 | 19785.7 | 16566.8 |
| 72.5° | 15685.2 | 19162.8 | 19975.9 | 15281.3 | 14246.4 | 14301.5 | 13842.5 | 16158.3 | 20607.6 | 14697.3 | 12368.8 |
| 75°   | 10731.2 | 13875.5 | 15629.4 | 10662.6 | 9421.5  | 9443.6  | 9385.2  | 11449.6 | 16413.6 | 10223.8 | 9255.5  |
| 77.5° | 7839.6  | 9913.4  | 11787.6 | 7168.2  | 6959.2  | 6830.9  | 6800.0  | 8010.9  | 12583.9 | 7423.6  | 7187.0  |
| 80°   | 6290.6  | 7324.1  | 7917.5  | 4968.1  | 5342.4  | 5332.3  | 5160.3  | 5508.4  | 8217.9  | 5429.8  | 5375.3  |
| 82.5° | 4364.0  | 5628.7  | 6414.9  | 3893.6  | 3606.0  | 3545.5  | 3587.8  | 4102.6  | 5808.8  | 3711.5  | 3529.3  |
| 85°   | 2302.3  | 3738.3  | 6353.1  | 3450.7  | 2140.3  | 1707.6  | 2124.2  | 3359.3  | 5032.6  | 1966.9  | 1721.7  |
| 87.5° | 294.3   | 1080.6  | 4206.1  | 1376.9  | 844.7   | 454.9   | 1008.7  | 1891.7  | 3231.7  | 401.2   | 350.1   |
| 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):**

|       | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    | 185°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12723.0 | 12723.0 | 12723.0 | 12723.0 | 12723.0 | 12723.0 | 12723.0 | 12723.0 | 12723.0 | 12723.0 | 12723.0 |
| 2.5°  | 13803.6 | 13528.0 | 13167.9 | 12833.9 | 12488.5 | 12144.4 | 11695.5 | 11413.9 | 11219.7 | 11182.1 | 11100.1 |
| 5°    | 13468.2 | 12553.0 | 11861.5 | 11263.4 | 10721.1 | 9954.3  | 9530.3  | 9178.2  | 8990.0  | 8971.9  | 8926.2  |
| 7.5°  | 11921.3 | 10658.6 | 9725.2  | 8878.5  | 8110.4  | 7491.5  | 6808.0  | 6490.2  | 6359.1  | 6390.1  | 6421.0  |
| 10°   | 10312.5 | 8901.3  | 7828.8  | 6963.3  | 6286.6  | 5765.1  | 5216.7  | 4846.5  | 4589.1  | 4537.3  | 4527.3  |
| 12.5° | 9137.2  | 7588.9  | 6548.0  | 5936.5  | 5413.6  | 4922.4  | 4341.1  | 3903.7  | 3571.0  | 3456.8  | 3380.8  |
| 15°   | 8639.9  | 6947.1  | 5856.5  | 5197.9  | 4620.0  | 3997.1  | 3456.8  | 2999.1  | 2693.4  | 2593.9  | 2538.1  |
| 17.5° | 8746.1  | 6769.1  | 5380.0  | 4537.3  | 3798.8  | 3148.3  | 2467.6  | 2075.8  | 1891.7  | 1844.6  | 1844.6  |
| 20°   | 9301.2  | 6736.1  | 4986.2  | 3929.2  | 3007.2  | 2253.9  | 1695.5  | 1471.7  | 1411.9  | 1405.8  | 1422.0  |
| 22.5° | 10079.3 | 6852.4  | 4693.3  | 3401.7  | 2337.2  | 1645.7  | 1320.5  | 1237.8  | 1210.9  | 1217.7  | 1235.8  |
| 25°   | 11238.5 | 7243.5  | 4480.2  | 2931.3  | 1833.9  | 1347.4  | 1177.3  | 1128.3  | 1115.5  | 1132.3  | 1155.2  |
| 27.5° | 12612.8 | 7634.6  | 4347.2  | 2577.1  | 1548.3  | 1231.8  | 1119.6  | 1068.5  | 1076.5  | 1097.4  | 1117.5  |
| 30°   | 13819.7 | 7955.8  | 4138.2  | 2325.1  | 1459.6  | 1237.8  | 1119.6  | 1049.7  | 1041.6  | 1045.6  | 1051.7  |
| 32.5° | 14903.0 | 8172.9  | 3893.6  | 2084.5  | 1258.7  | 1099.4  | 1045.6  | 1035.6  | 989.2   | 972.4   | 975.1   |
| 35°   | 15836.4 | 8172.9  | 3747.1  | 1944.1  | 1128.3  | 975.1   | 888.4   | 836.6   | 813.1   | 815.1   | 838.7   |
| 37.5° | 16736.9 | 8008.9  | 3674.5  | 1864.8  | 1057.7  | 927.4   | 850.8   | 805.1   | 774.1   | 768.1   | 772.1   |
| 40°   | 17531.2 | 7771.0  | 3591.8  | 1831.9  | 1004.0  | 898.5   | 826.6   | 788.3   | 755.3   | 745.2   | 747.3   |
| 42.5° | 18168.9 | 7578.2  | 3500.5  | 1788.9  | 970.4   | 877.6   | 809.1   | 776.2   | 739.2   | 728.4   | 726.4   |
| 45°   | 18858.4 | 7514.3  | 3380.8  | 1701.5  | 987.2   | 879.6   | 805.1   | 770.1   | 732.5   | 720.4   | 716.4   |
| 47.5° | 19766.9 | 7715.2  | 3256.5  | 1598.0  | 1022.8  | 890.4   | 811.1   | 770.1   | 730.5   | 720.4   | 716.4   |
| 50°   | 20911.3 | 8187.0  | 3098.6  | 1446.8  | 987.2   | 919.3   | 809.1   | 763.4   | 730.5   | 720.4   | 712.3   |
| 52.5° | 22381.7 | 8824.7  | 2892.3  | 1273.4  | 966.3   | 989.2   | 805.1   | 751.3   | 720.4   | 706.3   | 691.5   |
| 55°   | 24167.8 | 9346.2  | 2645.0  | 1130.3  | 919.3   | 970.4   | 799.0   | 737.2   | 704.3   | 683.4   | 670.7   |
| 57.5° | 25476.2 | 9534.3  | 2329.2  | 1037.6  | 852.8   | 939.5   | 790.3   | 718.4   | 683.4   | 666.6   | 650.5   |
| 60°   | 25217.5 | 9170.1  | 2061.7  | 979.1   | 813.1   | 848.7   | 784.2   | 701.6   | 664.6   | 652.5   | 637.1   |
| 62.5° | 23145.7 | 8217.9  | 1889.7  | 952.2   | 788.3   | 774.1   | 790.3   | 685.4   | 648.5   | 635.0   | 631.0   |
| 65°   | 20038.4 | 6812.1  | 1821.8  | 946.2   | 768.1   | 730.5   | 735.2   | 666.6   | 629.0   | 618.9   | 614.9   |
| 67.5° | 16529.2 | 5498.3  | 1762.0  | 966.3   | 741.2   | 699.6   | 679.4   | 641.8   | 610.2   | 600.1   | 592.0   |
| 70°   | 13034.8 | 4573.0  | 1734.4  | 954.2   | 708.3   | 668.6   | 646.5   | 614.9   | 588.0   | 577.2   | 571.2   |
| 72.5° | 10496.7 | 3862.7  | 1719.7  | 941.5   | 664.6   | 627.0   | 606.1   | 579.3   | 550.4   | 546.3   | 540.3   |
| 75°   | 8883.2  | 3036.8  | 1575.8  | 902.5   | 614.9   | 577.2   | 563.1   | 538.3   | 509.4   | 509.4   | 505.3   |
| 77.5° | 6852.4  | 2196.1  | 1310.4  | 799.0   | 563.1   | 521.5   | 509.4   | 490.6   | 457.6   | 463.7   | 461.7   |
| 80°   | 5061.5  | 1432.7  | 1024.8  | 662.6   | 499.3   | 459.6   | 452.9   | 434.8   | 399.2   | 407.9   | 407.9   |
| 82.5° | 3467.5  | 939.5   | 737.2   | 542.3   | 426.0   | 389.1   | 389.1   | 370.3   | 331.3   | 335.3   | 348.1   |
| 85°   | 1741.2  | 646.5   | 550.4   | 420.0   | 331.3   | 312.5   | 312.5   | 298.4   | 258.7   | 260.7   | 277.5   |
| 87.5° | 530.2   | 389.1   | 364.2   | 300.4   | 237.9   | 233.9   | 223.1   | 213.0   | 188.2   | 186.1   | 196.9   |
| 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°    | 12723.0 | 12723.0 | 12723.0 | 12723.0 | 12723.0 | 12723.0 | 12723.0 | 12723.0 | 12723.0 | 12723.0 | 12723.0 |
| 2.5°  | 10973.1 | 10854.8 | 10713.0 | 10397.9 | 10292.4 | 10285.6 | 10381.7 | 10281.6 | 10472.5 | 10391.8 | 10480.5 |
| 5°    | 8848.9  | 8734.0  | 8574.1  | 8172.9  | 7928.3  | 7762.3  | 7684.3  | 7452.5  | 7619.8  | 7497.5  | 7599.7  |
| 7.5°  | 6508.3  | 6535.2  | 6429.7  | 6193.8  | 5661.6  | 5394.8  | 5237.6  | 5096.5  | 5218.8  | 5206.0  | 5400.9  |
| 10°   | 4575.0  | 4646.9  | 4573.0  | 4335.1  | 3903.7  | 3757.2  | 3786.1  | 3841.8  | 4001.8  | 4083.7  | 4384.1  |
| 12.5° | 3293.5  | 3289.4  | 3241.7  | 3028.7  | 2745.1  | 2761.3  | 2879.5  | 2976.3  | 3123.5  | 3210.8  | 3516.6  |
| 15°   | 2458.9  | 2421.9  | 2401.1  | 2227.0  | 2065.7  | 2101.3  | 2159.1  | 2169.2  | 2262.6  | 2314.4  | 2563.0  |
| 17.5° | 1858.8  | 1877.6  | 1899.7  | 1776.1  | 1653.8  | 1630.9  | 1585.9  | 1529.5  | 1557.0  | 1567.1  | 1690.8  |
| 20°   | 1475.7  | 1550.3  | 1606.8  | 1519.4  | 1395.7  | 1328.5  | 1270.8  | 1233.8  | 1233.8  | 1231.8  | 1266.7  |
| 22.5° | 1289.6  | 1343.3  | 1403.8  | 1343.3  | 1231.8  | 1173.3  | 1140.4  | 1111.5  | 1107.5  | 1107.5  | 1140.4  |
| 25°   | 1188.8  | 1227.7  | 1285.5  | 1244.5  | 1161.2  | 1117.5  | 1086.6  | 1049.7  | 1035.6  | 1030.8  | 1053.7  |
| 27.5° | 1138.4  | 1155.2  | 1184.1  | 1146.4  | 1076.5  | 1055.7  | 1047.6  | 1014.7  | 995.2   | 985.2   | 1008.7  |
| 30°   | 1053.7  | 1049.7  | 1051.7  | 1014.7  | 958.3   | 956.3   | 970.4   | 977.1   | 970.4   | 968.4   | 1004.0  |
| 32.5° | 975.1   | 966.3   | 964.3   | 931.4   | 879.6   | 867.6   | 879.6   | 892.4   | 906.5   | 927.4   | 968.4   |
| 35°   | 875.6   | 896.4   | 908.5   | 879.6   | 817.2   | 780.2   | 766.1   | 743.2   | 730.5   | 730.5   | 778.2   |
| 37.5° | 797.0   | 844.7   | 863.5   | 836.6   | 768.1   | 716.4   | 691.5   | 687.5   | 689.5   | 697.5   | 743.2   |
| 40°   | 770.1   | 805.1   | 821.2   | 795.0   | 726.4   | 679.4   | 664.6   | 660.6   | 664.6   | 677.4   | 722.4   |
| 42.5° | 753.3   | 778.2   | 776.2   | 743.2   | 687.5   | 654.5   | 646.5   | 641.8   | 646.5   | 658.6   | 708.3   |
| 45°   | 739.2   | 755.3   | 739.2   | 699.6   | 648.5   | 631.0   | 633.0   | 631.0   | 635.0   | 648.5   | 695.5   |
| 47.5° | 726.4   | 732.5   | 712.3   | 672.7   | 618.9   | 614.9   | 622.9   | 629.0   | 633.0   | 644.4   | 693.5   |
| 50°   | 708.3   | 708.3   | 689.5   | 648.5   | 594.0   | 596.1   | 606.1   | 620.9   | 622.9   | 635.0   | 675.4   |
| 52.5° | 685.4   | 683.4   | 670.7   | 631.0   | 573.2   | 579.3   | 579.3   | 596.1   | 600.1   | 614.9   | 656.5   |
| 55°   | 666.6   | 662.6   | 656.5   | 618.9   | 555.1   | 565.2   | 559.1   | 565.2   | 575.2   | 590.0   | 635.0   |
| 57.5° | 650.5   | 641.8   | 641.8   | 608.2   | 540.3   | 544.3   | 530.2   | 538.3   | 550.4   | 563.1   | 610.2   |
| 60°   | 633.0   | 625.0   | 629.0   | 594.0   | 517.4   | 513.4   | 507.4   | 523.5   | 528.2   | 542.3   | 590.0   |
| 62.5° | 614.9   | 608.2   | 610.2   | 577.2   | 501.3   | 490.6   | 490.6   | 505.3   | 507.4   | 528.2   | 573.2   |
| 65°   | 600.1   | 592.0   | 590.0   | 561.1   | 482.5   | 470.4   | 476.4   | 482.5   | 486.5   | 507.4   | 550.4   |
| 67.5° | 586.0   | 569.2   | 569.2   | 546.3   | 461.7   | 448.9   | 461.7   | 459.6   | 466.4   | 484.5   | 519.5   |
| 70°   | 567.2   | 544.3   | 546.3   | 536.3   | 440.8   | 426.0   | 436.8   | 434.8   | 438.8   | 450.9   | 486.5   |
| 72.5° | 538.3   | 519.5   | 523.5   | 519.5   | 420.0   | 399.2   | 403.2   | 403.2   | 403.2   | 414.0   | 450.9   |
| 75°   | 501.3   | 486.5   | 499.3   | 509.4   | 395.1   | 366.2   | 370.3   | 370.3   | 364.2   | 370.3   | 416.0   |
| 77.5° | 454.9   | 446.9   | 488.5   | 474.4   | 366.2   | 331.3   | 331.3   | 327.3   | 315.2   | 323.2   | 372.3   |
| 80°   | 405.9   | 399.2   | 450.9   | 397.2   | 333.3   | 288.3   | 283.6   | 272.8   | 260.7   | 266.8   | 317.2   |
| 82.5° | 354.1   | 348.1   | 379.0   | 304.4   | 288.3   | 237.9   | 227.8   | 209.0   | 196.9   | 202.9   | 248.0   |
| 85°   | 290.3   | 290.3   | 292.3   | 229.8   | 219.1   | 182.1   | 170.0   | 145.2   | 130.4   | 134.4   | 178.1   |
| 87.5° | 207.0   | 213.0   | 196.9   | 157.2   | 130.4   | 101.5   | 93.4    | 78.6    | 65.9    | 76.6    | 93.4    |
| 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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|       | 295°    | 305°    | 315°    | 325°    | 335°    | 345°    | 355°    | 360°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12723.0 | 12723.0 | 12723.0 | 12723.0 | 12723.0 | 12723.0 | 12723.0 | 12723.0 |
| 2.5°  | 10936.1 | 11163.9 | 11422.7 | 11753.3 | 12037.6 | 12502.6 | 12950.1 | 13218.9 |
| 5°    | 8176.9  | 8555.9  | 9027.0  | 9634.5  | 10199.6 | 11047.7 | 11890.4 | 12430.7 |
| 7.5°  | 5851.8  | 6257.7  | 6767.0  | 7524.4  | 8324.1  | 9406.0  | 10520.2 | 11166.0 |
| 10°   | 4842.4  | 5258.4  | 5686.5  | 6197.9  | 6852.4  | 8029.7  | 9346.2  | 10074.6 |
| 12.5° | 4005.8  | 4450.7  | 4912.3  | 5450.6  | 6056.7  | 7108.4  | 8625.8  | 9464.5  |
| 15°   | 3065.7  | 3562.3  | 4106.6  | 4788.0  | 5547.4  | 6763.0  | 8447.7  | 9358.3  |
| 17.5° | 2101.3  | 2656.4  | 3324.4  | 4165.1  | 5094.4  | 6650.8  | 8766.9  | 9816.6  |
| 20°   | 1446.8  | 1850.7  | 2565.0  | 3550.2  | 4668.4  | 6636.7  | 9379.1  | 10694.2 |
| 22.5° | 1210.9  | 1391.0  | 1912.5  | 2985.0  | 4347.2  | 6814.8  | 10330.0 | 11925.3 |
| 25°   | 1119.6  | 1227.7  | 1527.5  | 2494.5  | 4113.3  | 7224.7  | 11638.4 | 13519.3 |
| 27.5° | 1066.5  | 1163.2  | 1387.0  | 2173.9  | 3929.2  | 7700.5  | 12911.2 | 15063.6 |
| 30°   | 1086.6  | 1186.1  | 1347.4  | 2010.0  | 3678.5  | 8097.6  | 14041.5 | 16268.5 |
| 32.5° | 979.1   | 1022.8  | 1155.2  | 1864.8  | 3498.4  | 8430.9  | 15030.6 | 17266.4 |
| 35°   | 834.6   | 910.6   | 1030.8  | 1796.9  | 3502.5  | 8654.7  | 16109.2 | 18541.2 |
| 37.5° | 795.0   | 871.6   | 958.3   | 1772.1  | 3550.2  | 8893.3  | 17347.0 | 20036.4 |
| 40°   | 770.1   | 840.7   | 915.3   | 1758.0  | 3595.9  | 9110.3  | 18560.7 | 21514.1 |
| 42.5° | 753.3   | 817.2   | 910.6   | 1707.6  | 3618.7  | 9305.2  | 19557.9 | 22770.7 |
| 45°   | 751.3   | 817.2   | 927.4   | 1657.8  | 3653.7  | 9514.2  | 20394.6 | 23700.1 |
| 47.5° | 753.3   | 844.7   | 896.4   | 1598.0  | 3653.7  | 9863.6  | 21375.7 | 24530.0 |
| 50°   | 745.2   | 890.4   | 863.5   | 1513.3  | 3569.0  | 10526.2 | 22721.0 | 25641.5 |
| 52.5° | 741.2   | 884.4   | 799.0   | 1383.0  | 3421.8  | 11577.9 | 24445.4 | 27173.7 |
| 55°   | 730.5   | 852.8   | 753.3   | 1188.8  | 3250.5  | 12725.0 | 26292.0 | 28985.4 |
| 57.5° | 720.4   | 755.3   | 728.4   | 1018.8  | 2985.0  | 13532.1 | 27562.8 | 30398.6 |
| 60°   | 807.1   | 660.6   | 708.3   | 935.4   | 2630.9  | 13753.2 | 27513.7 | 30961.8 |
| 62.5° | 747.3   | 618.9   | 681.4   | 917.3   | 2382.9  | 13132.2 | 26242.3 | 30658.0 |
| 65°   | 586.0   | 592.0   | 654.5   | 970.4   | 2316.4  | 11487.2 | 23989.8 | 29252.2 |
| 67.5° | 536.3   | 565.2   | 627.0   | 1039.6  | 2323.1  | 9197.0  | 20624.4 | 26189.9 |
| 70°   | 505.3   | 536.3   | 596.1   | 1074.5  | 2339.2  | 6856.4  | 16305.4 | 21332.0 |
| 72.5° | 470.4   | 497.3   | 561.1   | 1080.6  | 2231.0  | 4980.2  | 12567.8 | 15685.2 |
| 75°   | 428.1   | 452.9   | 511.4   | 941.5   | 1848.7  | 3454.8  | 9613.6  | 10731.2 |
| 77.5° | 381.0   | 399.2   | 448.9   | 726.4   | 1372.9  | 2210.9  | 7215.9  | 7839.6  |
| 80°   | 325.2   | 335.3   | 377.0   | 532.2   | 939.5   | 1383.0  | 5709.3  | 6290.6  |
| 82.5° | 260.7   | 264.8   | 292.3   | 399.2   | 610.2   | 888.4   | 3823.7  | 4364.0  |
| 85°   | 184.1   | 184.1   | 200.9   | 290.3   | 416.0   | 563.1   | 2075.8  | 2302.3  |
| 87.5° | 86.7    | 88.7    | 88.7    | 159.3   | 217.1   | 286.3   | 478.5   | 294.3   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

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