

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: P193077

Luminaire Tested: **GAN-AF-09-LED-U-SLR-7030**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P193077  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-09-LED-U-SLR-7030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 45229 lumens  
Efficiency: N/A  
Efficacy: 90.3 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): 501  
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



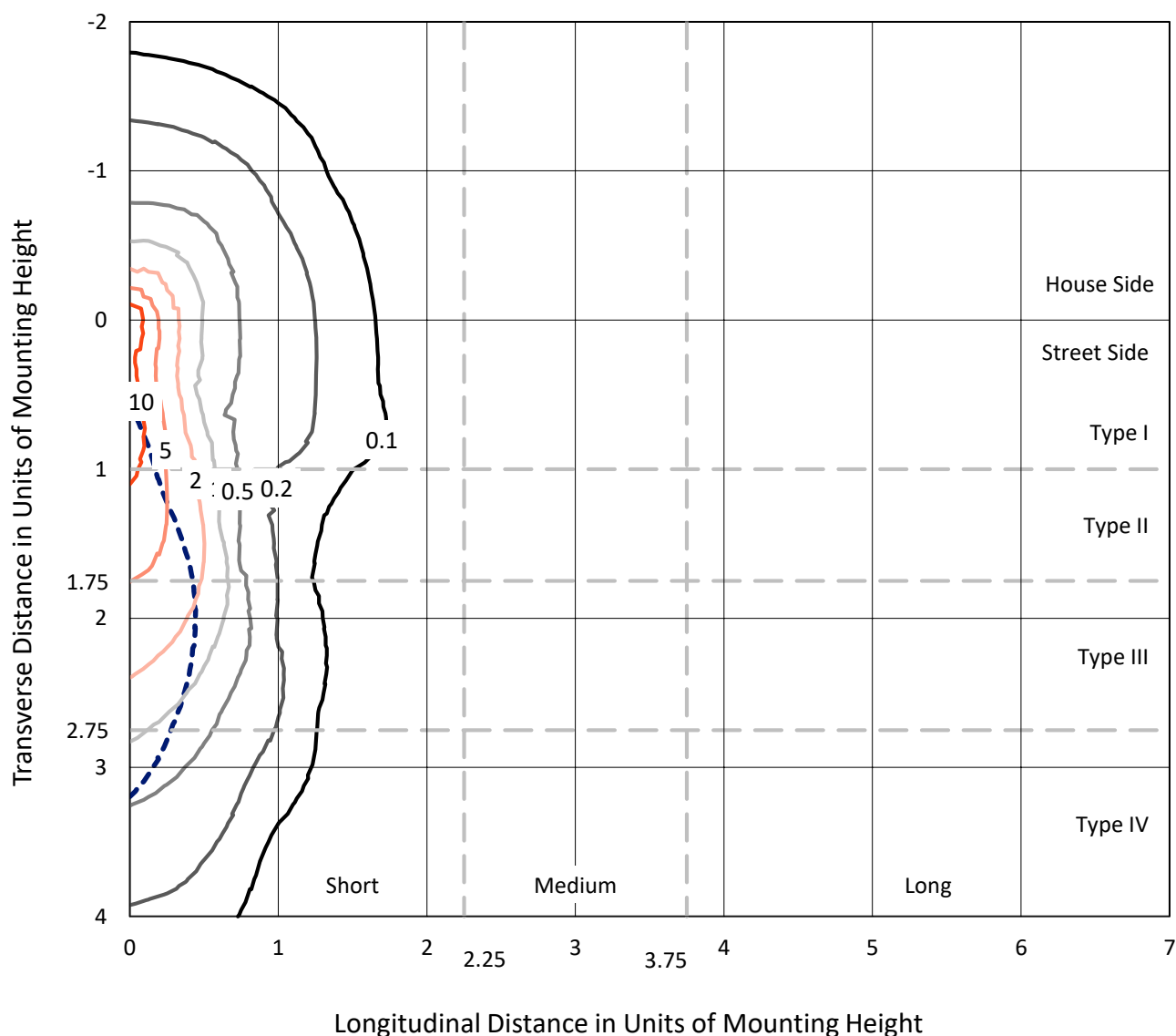
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

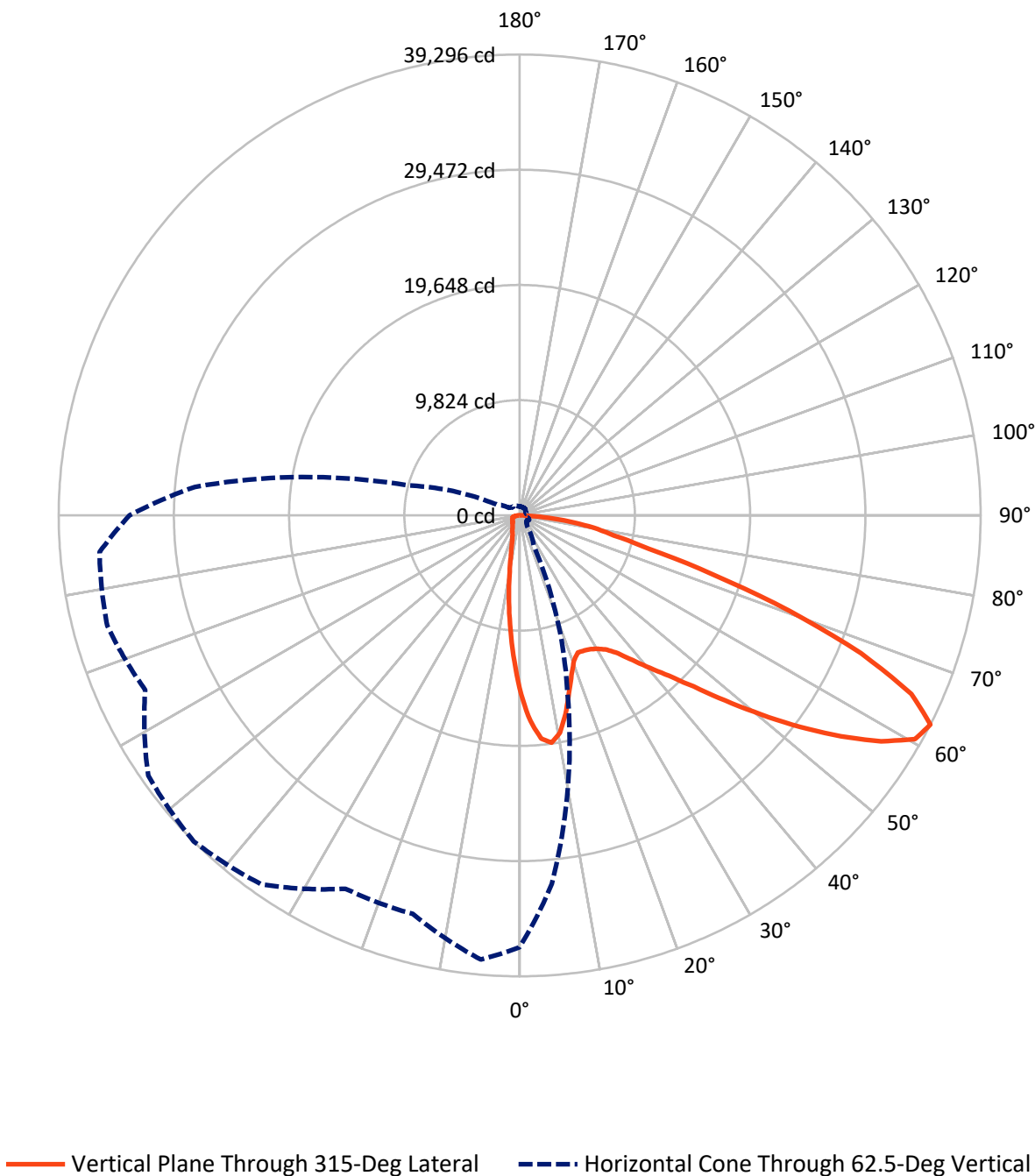


Based on 30 foot mounting height. Maximum calculated value = 17 fc  
 Type IV - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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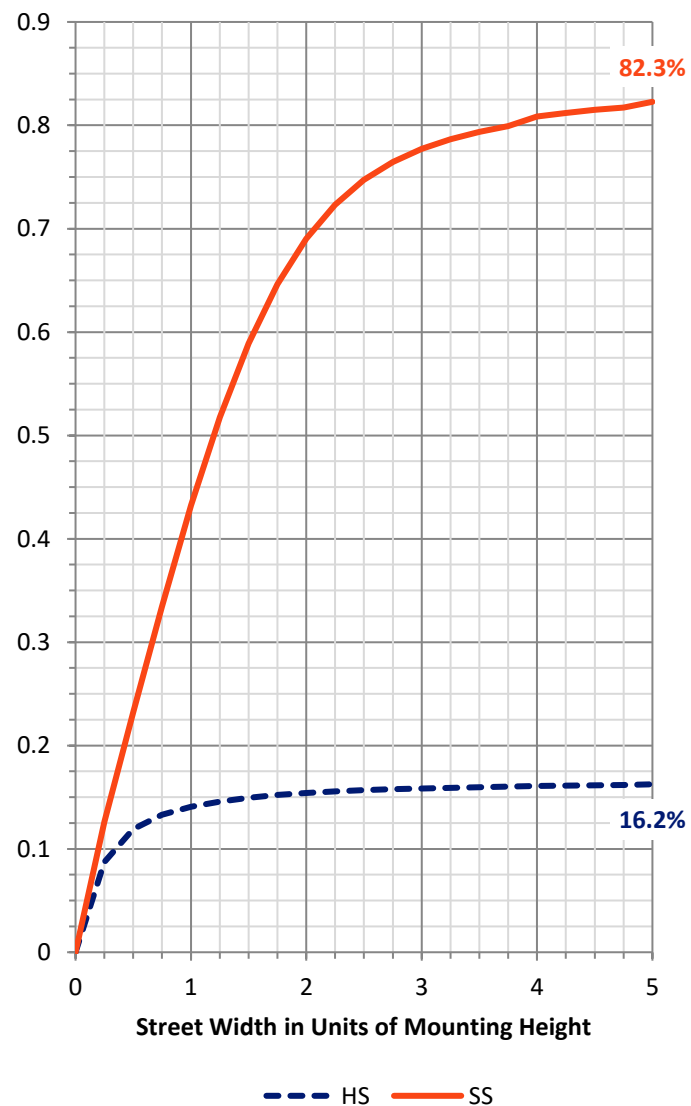
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7484.8   | 0.0    | 7484.8  |
|                    | % Fixture | 16.5     | 0.0    | 16.5    |
| <b>Street Side</b> | Lumens    | 37744.2  | 0.0    | 37744.2 |
|                    | % Fixture | 83.5     | 0.0    | 83.5    |
| <b>Total</b>       | Lumens    | 45229.0  | 0.0    | 45229.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1112.4  | 2.5       |
| 10°-20°   | 2039.8  | 4.5       |
| 20°-30°   | 2974.0  | 6.6       |
| 30°-40°   | 4580.4  | 10.1      |
| 40°-50°   | 6741.2  | 14.9      |
| 50°-60°   | 9887.8  | 21.9      |
| 60°-70°   | 11053.2 | 24.4      |
| 70°-80°   | 5411.5  | 12.0      |
| 80°-90°   | 1428.8  | 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°    | 45229.0 | 100.0     |
| 0°-180°   | 45229.0 | 100.0     |

**Coefficient of Utilization**



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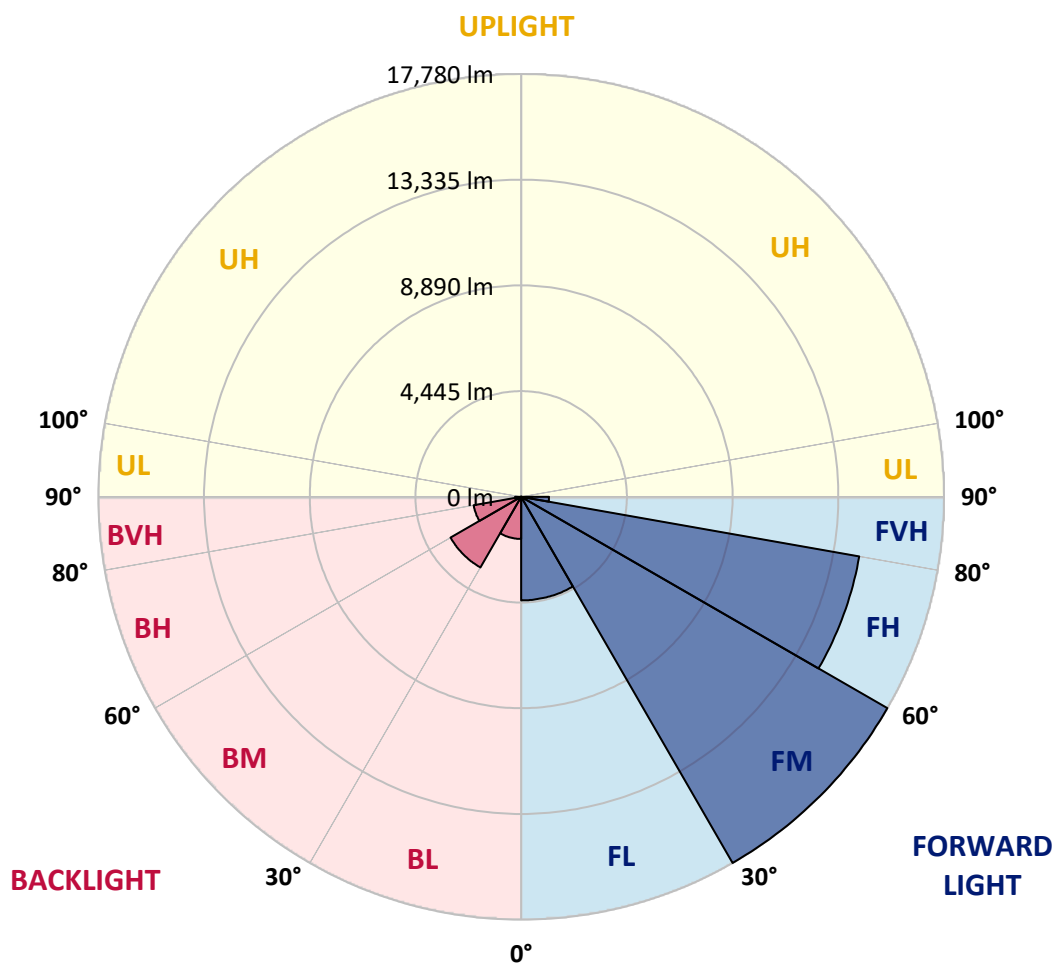
CATALOG NUMBER: GAN-AF-09-LED-U-SLR-7030

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4355.4  | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 17779.9 | 39.3      |                         |      |         |
| FH   | (60°-80°)   | 14435.5 | 31.9      |                         |      | G5      |
| FVH  | (80°-90°)   | 1173.4  | 2.6       |                         |      | G5      |
| BL   | (0°-30°)    | 1770.8  | 3.9       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3429.5  | 7.6       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2029.1  | 4.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 255.4   | 0.6       |                         |      | G3/500  |
| 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°    | 15280.8 | 15280.8 | 15280.8 | 15280.8 | 15280.8 | 15280.8 | 15280.8 | 15280.8 | 15280.8 | 15280.8 | 15280.8 |
| 2.5°  | 15877.4 | 15554.2 | 15017.2 | 14457.8 | 14117.2 | 13719.3 | 13408.7 | 13135.1 | 12588.1 | 12481.2 | 12578.2 |
| 5°    | 14930.2 | 14281.3 | 13269.3 | 12250.0 | 11571.2 | 10842.8 | 10275.9 | 9820.9  | 9127.2  | 9005.3  | 9152.1  |
| 7.5°  | 13411.1 | 12635.4 | 11297.7 | 9997.4  | 9037.7  | 8127.7  | 7516.1  | 7028.7  | 6486.7  | 6253.0  | 6267.9  |
| 10°   | 12100.8 | 11225.7 | 9644.4  | 8229.6  | 7444.0  | 6829.9  | 6315.1  | 5815.5  | 5266.0  | 4905.4  | 4806.0  |
| 12.5° | 11367.4 | 10360.4 | 8537.9  | 7274.9  | 6546.4  | 5900.0  | 5345.5  | 4811.0  | 4224.2  | 3856.2  | 3751.9  |
| 15°   | 11240.6 | 10146.6 | 8122.8  | 6663.2  | 5750.8  | 4932.8  | 4278.9  | 3682.2  | 3078.1  | 2779.7  | 2717.5  |
| 17.5° | 11790.0 | 10529.5 | 7988.5  | 6118.7  | 5002.4  | 3993.0  | 3190.0  | 2523.6  | 2031.3  | 1882.1  | 1869.7  |
| 20°   | 12844.2 | 11265.4 | 7971.1  | 5606.6  | 4264.0  | 3080.6  | 2222.8  | 1737.9  | 1521.7  | 1479.4  | 1481.9  |
| 22.5° | 14323.6 | 12406.6 | 8184.9  | 5221.2  | 3585.3  | 2297.2  | 1670.8  | 1454.5  | 1370.0  | 1330.1  | 1330.1  |
| 25°   | 16238.0 | 13978.0 | 8677.2  | 4940.2  | 2996.0  | 1834.9  | 1474.4  | 1345.1  | 1265.5  | 1238.1  | 1243.2  |
| 27.5° | 18092.8 | 15507.0 | 9249.1  | 4719.0  | 2610.6  | 1665.7  | 1397.3  | 1280.4  | 1210.8  | 1183.5  | 1196.0  |
| 30°   | 19539.8 | 16864.6 | 9726.4  | 4418.1  | 2414.2  | 1618.5  | 1424.6  | 1305.3  | 1205.9  | 1163.6  | 1166.2  |
| 32.5° | 20738.2 | 18053.0 | 10126.7 | 4201.9  | 2240.2  | 1387.4  | 1228.2  | 1176.0  | 1163.6  | 1113.9  | 1089.0  |
| 35°   | 22269.8 | 19348.4 | 10395.3 | 4206.8  | 2158.1  | 1238.1  | 1094.0  | 1002.0  | 934.8   | 877.7   | 877.7   |
| 37.5° | 24064.9 | 20835.2 | 10681.1 | 4264.0  | 2128.3  | 1151.1  | 1046.7  | 954.7   | 892.5   | 837.9   | 827.9   |
| 40°   | 25840.1 | 22292.1 | 10942.2 | 4318.7  | 2110.9  | 1098.9  | 1009.4  | 924.9   | 867.7   | 813.0   | 798.1   |
| 42.5° | 27349.2 | 23490.5 | 11175.9 | 4346.0  | 2051.3  | 1094.0  | 982.1   | 905.0   | 850.4   | 790.6   | 775.7   |
| 45°   | 28465.7 | 24495.0 | 11427.0 | 4388.3  | 1991.6  | 1113.9  | 982.1   | 902.5   | 835.4   | 778.3   | 763.2   |
| 47.5° | 29462.7 | 25673.5 | 11847.2 | 4388.3  | 1919.4  | 1076.5  | 1014.4  | 905.0   | 832.9   | 773.2   | 760.8   |
| 50°   | 30797.8 | 27289.5 | 12642.8 | 4286.3  | 1817.5  | 1036.8  | 1069.1  | 895.1   | 810.4   | 763.2   | 748.4   |
| 52.5° | 32637.6 | 29360.7 | 13905.9 | 4109.9  | 1660.8  | 959.8   | 1061.7  | 890.1   | 788.2   | 738.5   | 721.0   |
| 55°   | 34813.2 | 31578.4 | 15283.3 | 3903.5  | 1427.2  | 905.0   | 1024.3  | 877.7   | 763.2   | 708.5   | 691.2   |
| 57.5° | 36511.2 | 33105.0 | 16253.0 | 3585.3  | 1223.2  | 875.1   | 907.5   | 865.3   | 733.4   | 676.4   | 661.3   |
| 60°   | 37187.6 | 33045.4 | 16518.9 | 3160.1  | 1123.8  | 850.4   | 793.1   | 969.6   | 708.5   | 651.4   | 634.0   |
| 62.5° | 36822.0 | 31518.8 | 15773.1 | 2861.7  | 1101.5  | 818.1   | 743.4   | 897.6   | 688.7   | 634.0   | 609.1   |
| 65°   | 35133.9 | 28813.8 | 13796.5 | 2782.2  | 1166.2  | 785.7   | 711.1   | 703.6   | 661.3   | 609.1   | 584.3   |
| 67.5° | 31456.7 | 24770.9 | 11046.6 | 2789.6  | 1248.1  | 753.4   | 678.7   | 644.0   | 624.1   | 581.8   | 559.4   |
| 70°   | 25621.3 | 19584.6 | 8234.7  | 2809.5  | 1290.4  | 716.0   | 644.0   | 606.6   | 584.3   | 542.0   | 527.0   |
| 72.5° | 18838.7 | 15094.2 | 5982.1  | 2680.2  | 1297.9  | 673.8   | 596.7   | 564.5   | 542.0   | 497.2   | 484.8   |
| 75°   | 12889.0 | 11546.4 | 4149.6  | 2220.2  | 1131.3  | 614.1   | 544.5   | 514.6   | 499.8   | 445.0   | 437.6   |
| 77.5° | 9415.6  | 8667.2  | 2655.3  | 1648.4  | 872.7   | 539.5   | 479.8   | 457.5   | 447.5   | 387.9   | 377.9   |
| 80°   | 7555.9  | 6857.2  | 1660.8  | 1128.7  | 638.9   | 452.6   | 402.7   | 390.4   | 380.4   | 320.7   | 313.2   |
| 82.5° | 5241.1  | 4592.1  | 1066.6  | 733.4   | 479.8   | 350.6   | 318.3   | 313.2   | 298.4   | 243.6   | 236.2   |
| 85°   | 2764.8  | 2493.8  | 676.4   | 499.8   | 348.1   | 241.1   | 221.2   | 221.2   | 213.8   | 161.6   | 156.7   |
| 87.5° | 353.0   | 574.3   | 343.1   | 261.0   | 191.4   | 107.0   | 107.0   | 104.5   | 111.9   | 92.0    | 79.5    |
| 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°    | 15280.8 | 15280.8 | 15280.8 | 15280.8 | 15280.8 | 15280.8 | 15280.8 | 15280.8 | 15280.8 | 15280.8 | 15280.8 |
| 2.5°  | 12349.5 | 12468.7 | 12354.4 | 12361.9 | 12488.7 | 12866.6 | 13038.1 | 13179.8 | 13331.5 | 13431.0 | 13475.7 |
| 5°    | 8950.6  | 9229.1  | 9323.6  | 9522.5  | 9815.9  | 10298.2 | 10489.7 | 10629.0 | 10720.9 | 10775.5 | 10798.0 |
| 7.5°  | 6121.2  | 6290.4  | 6479.3  | 6800.0  | 7439.0  | 7722.5  | 7849.1  | 7817.0  | 7712.5  | 7675.3  | 7637.9  |
| 10°   | 4614.6  | 4547.5  | 4512.6  | 4689.2  | 5206.3  | 5492.3  | 5581.7  | 5494.7  | 5437.5  | 5450.0  | 5512.1  |
| 12.5° | 3575.3  | 3458.5  | 3316.7  | 3296.8  | 3637.5  | 3893.6  | 3950.7  | 3955.7  | 4060.1  | 4152.1  | 4288.9  |
| 15°   | 2605.7  | 2593.2  | 2523.6  | 2481.3  | 2675.2  | 2884.1  | 2908.9  | 2953.8  | 3048.3  | 3115.3  | 3234.6  |
| 17.5° | 1837.4  | 1904.5  | 1959.2  | 1986.6  | 2133.3  | 2282.4  | 2255.1  | 2232.7  | 2215.3  | 2215.3  | 2272.5  |
| 20°   | 1481.9  | 1526.6  | 1596.2  | 1675.8  | 1824.9  | 1929.4  | 1862.3  | 1772.7  | 1708.0  | 1688.2  | 1695.7  |
| 22.5° | 1335.1  | 1370.0  | 1409.8  | 1479.4  | 1613.6  | 1685.8  | 1613.6  | 1549.0  | 1484.3  | 1461.9  | 1454.5  |
| 25°   | 1260.6  | 1305.3  | 1342.6  | 1394.8  | 1494.2  | 1544.0  | 1474.4  | 1427.2  | 1387.4  | 1360.0  | 1340.1  |
| 27.5° | 1218.2  | 1258.1  | 1268.1  | 1292.9  | 1377.4  | 1422.1  | 1387.4  | 1367.5  | 1342.6  | 1317.7  | 1292.9  |
| 30°   | 1173.6  | 1166.2  | 1148.7  | 1151.1  | 1218.2  | 1263.0  | 1260.6  | 1265.5  | 1263.0  | 1255.6  | 1250.6  |
| 32.5° | 1071.7  | 1056.6  | 1041.8  | 1056.6  | 1118.9  | 1158.5  | 1161.1  | 1171.0  | 1171.0  | 1168.5  | 1188.4  |
| 35°   | 892.5   | 920.0   | 937.3   | 982.1   | 1056.6  | 1091.5  | 1076.5  | 1051.7  | 1007.0  | 979.6   | 977.1   |
| 37.5° | 825.5   | 830.4   | 860.3   | 922.3   | 1004.4  | 1036.8  | 1014.4  | 957.2   | 927.4   | 922.3   | 929.9   |
| 40°   | 793.1   | 798.1   | 815.5   | 872.7   | 954.7   | 987.0   | 967.2   | 924.9   | 897.6   | 895.1   | 907.5   |
| 42.5° | 770.8   | 775.7   | 785.7   | 825.5   | 892.5   | 932.3   | 934.8   | 905.0   | 872.7   | 875.1   | 887.6   |
| 45°   | 758.4   | 760.8   | 758.4   | 778.3   | 840.4   | 887.6   | 907.5   | 887.6   | 860.3   | 865.3   | 880.2   |
| 47.5° | 755.8   | 748.4   | 738.5   | 743.4   | 808.1   | 855.3   | 880.2   | 872.7   | 860.3   | 865.3   | 877.7   |
| 50°   | 745.9   | 728.4   | 716.0   | 713.6   | 778.3   | 827.9   | 850.4   | 850.4   | 855.3   | 865.3   | 877.7   |
| 52.5° | 716.0   | 696.2   | 696.2   | 688.7   | 758.4   | 805.6   | 820.4   | 822.9   | 830.4   | 847.9   | 865.3   |
| 55°   | 678.7   | 671.3   | 678.7   | 666.4   | 743.4   | 788.2   | 795.6   | 800.6   | 805.6   | 820.4   | 845.3   |
| 57.5° | 646.5   | 636.6   | 653.9   | 648.9   | 731.0   | 770.8   | 770.8   | 780.6   | 780.6   | 800.6   | 820.4   |
| 60°   | 629.0   | 609.1   | 616.6   | 621.5   | 713.6   | 755.8   | 750.8   | 760.8   | 765.8   | 783.2   | 798.1   |
| 62.5° | 606.6   | 589.2   | 589.2   | 601.7   | 693.7   | 733.4   | 731.0   | 738.5   | 758.4   | 763.2   | 778.3   |
| 65°   | 579.3   | 571.9   | 564.5   | 579.3   | 673.8   | 708.5   | 711.1   | 721.0   | 738.5   | 743.4   | 755.8   |
| 67.5° | 552.0   | 554.5   | 539.5   | 554.5   | 656.4   | 683.8   | 683.8   | 703.6   | 711.1   | 721.0   | 733.4   |
| 70°   | 522.1   | 524.7   | 512.2   | 529.6   | 644.0   | 656.4   | 653.9   | 681.2   | 686.2   | 693.7   | 706.2   |
| 72.5° | 484.8   | 484.8   | 479.8   | 504.7   | 624.1   | 629.0   | 624.1   | 646.5   | 648.9   | 656.4   | 661.3   |
| 75°   | 445.0   | 445.0   | 440.1   | 474.8   | 611.7   | 599.2   | 584.3   | 601.7   | 606.6   | 611.7   | 611.7   |
| 77.5° | 392.8   | 397.8   | 397.8   | 440.1   | 569.4   | 586.7   | 537.0   | 547.0   | 554.5   | 556.9   | 549.5   |
| 80°   | 328.3   | 340.7   | 345.6   | 400.3   | 477.4   | 542.0   | 479.8   | 487.3   | 489.8   | 489.8   | 479.8   |
| 82.5° | 251.1   | 273.4   | 285.9   | 345.6   | 365.5   | 454.9   | 417.7   | 425.1   | 417.7   | 402.7   | 397.8   |
| 85°   | 174.0   | 203.9   | 218.8   | 263.6   | 276.0   | 350.6   | 348.1   | 348.1   | 333.1   | 313.2   | 310.8   |
| 87.5° | 94.5    | 111.9   | 121.9   | 156.7   | 188.9   | 236.2   | 256.1   | 248.7   | 236.2   | 223.8   | 226.2   |
| 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):**

|       | 195°    | 205°    | 215°    | 225°    | 235°    | 245°    | 255°    | 265°    | 270°    | 275°    | 285°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 15280.8 | 15280.8 | 15280.8 | 15280.8 | 15280.8 | 15280.8 | 15280.8 | 15280.8 | 15280.8 | 15280.8 | 15280.8 |
| 2.5°  | 13709.5 | 14047.6 | 14587.1 | 14999.8 | 15415.1 | 15815.4 | 16248.0 | 16578.7 | 16859.6 | 16968.9 | 17302.2 |
| 5°    | 11024.3 | 11446.9 | 11956.6 | 12876.5 | 13527.9 | 14246.6 | 15076.9 | 16175.9 | 16598.5 | 17182.7 | 18140.0 |
| 7.5°  | 7794.5  | 8177.4  | 8997.9  | 9741.3  | 10663.7 | 11680.6 | 12801.9 | 14318.5 | 14873.0 | 15810.4 | 17369.3 |
| 10°   | 5820.5  | 6265.5  | 6924.3  | 7550.9  | 8363.9  | 9403.2  | 10691.1 | 12386.7 | 13060.6 | 14077.4 | 15872.5 |
| 12.5° | 4689.2  | 5213.8  | 5912.4  | 6501.7  | 7130.7  | 7864.2  | 9114.7  | 10974.5 | 11877.0 | 12767.2 | 14582.2 |
| 15°   | 3602.6  | 4152.1  | 4801.1  | 5549.4  | 6243.1  | 7033.8  | 8344.0  | 10377.8 | 11417.0 | 12344.4 | 13893.4 |
| 17.5° | 2493.8  | 2963.6  | 3781.7  | 4562.3  | 5450.0  | 6461.9  | 8130.2  | 10504.6 | 11745.3 | 12814.4 | 14012.7 |
| 20°   | 1767.7  | 2036.3  | 2707.6  | 3612.5  | 4719.0  | 5989.5  | 8090.4  | 11170.8 | 12784.5 | 14005.3 | 14778.5 |
| 22.5° | 1486.8  | 1586.2  | 1976.6  | 2807.0  | 4084.9  | 5636.4  | 8229.6  | 12105.8 | 14186.8 | 15745.7 | 15999.3 |
| 25°   | 1355.1  | 1414.7  | 1618.5  | 2202.8  | 3520.6  | 5380.4  | 8699.6  | 13498.1 | 15922.3 | 17486.2 | 17441.4 |
| 27.5° | 1282.9  | 1345.1  | 1479.4  | 1859.7  | 3095.5  | 5221.2  | 9169.5  | 15149.1 | 17906.3 | 19375.7 | 18818.9 |
| 30°   | 1260.6  | 1345.1  | 1486.8  | 1752.8  | 2792.1  | 4970.1  | 9554.8  | 16598.5 | 19432.9 | 20651.2 | 19445.3 |
| 32.5° | 1243.2  | 1255.6  | 1320.2  | 1511.7  | 2503.6  | 4676.8  | 9815.9  | 17898.9 | 20927.2 | 21864.5 | 20347.9 |
| 35°   | 1004.4  | 1066.6  | 1171.0  | 1355.1  | 2334.7  | 4500.2  | 9815.9  | 19020.2 | 22399.0 | 23090.2 | 21208.1 |
| 37.5° | 967.2   | 1021.9  | 1113.9  | 1270.4  | 2240.2  | 4413.2  | 9619.5  | 20101.7 | 23903.3 | 24480.1 | 21916.8 |
| 40°   | 947.3   | 992.1   | 1079.1  | 1205.9  | 2200.4  | 4313.8  | 9333.6  | 21056.5 | 25372.6 | 25872.4 | 22578.1 |
| 42.5° | 932.3   | 972.2   | 1054.3  | 1166.2  | 2148.1  | 4204.3  | 9102.3  | 21822.3 | 26648.2 | 27060.9 | 23209.6 |
| 45°   | 924.9   | 967.2   | 1056.6  | 1186.0  | 2043.7  | 4060.1  | 9025.3  | 22650.2 | 27697.3 | 28052.9 | 23893.4 |
| 47.5° | 924.9   | 974.6   | 1069.1  | 1228.2  | 1919.4  | 3910.9  | 9266.4  | 23741.6 | 28689.4 | 28863.4 | 24698.8 |
| 50°   | 917.4   | 972.2   | 1103.9  | 1186.0  | 1737.9  | 3722.0  | 9833.4  | 25116.5 | 29763.5 | 29783.3 | 25718.2 |
| 52.5° | 902.5   | 967.2   | 1188.4  | 1161.1  | 1529.1  | 3473.4  | 10599.1 | 26881.8 | 31352.2 | 31471.6 | 27314.5 |
| 55°   | 885.1   | 959.8   | 1166.2  | 1103.9  | 1357.5  | 3177.5  | 11225.7 | 29027.6 | 33584.8 | 33915.6 | 29661.4 |
| 57.5° | 862.7   | 949.8   | 1128.7  | 1024.3  | 1245.7  | 2797.0  | 11451.9 | 30598.8 | 35143.8 | 35974.2 | 32307.0 |
| 60°   | 842.8   | 942.4   | 1019.4  | 977.1   | 1176.0  | 2476.4  | 11014.3 | 30288.1 | 35036.9 | 36827.0 | 34651.5 |
| 62.5° | 822.9   | 949.8   | 929.9   | 947.3   | 1143.7  | 2270.0  | 9870.6  | 27799.3 | 33264.2 | 35946.9 | 36389.5 |
| 65°   | 800.6   | 882.6   | 877.7   | 922.3   | 1136.2  | 2187.9  | 8182.4  | 24067.3 | 29838.0 | 33164.7 | 36799.7 |
| 67.5° | 770.8   | 815.5   | 840.4   | 890.1   | 1161.1  | 2115.8  | 6603.6  | 19853.1 | 25076.7 | 28995.2 | 34661.5 |
| 70°   | 738.5   | 775.7   | 803.0   | 850.4   | 1146.1  | 2083.5  | 5492.3  | 15656.2 | 19897.9 | 23764.0 | 30442.3 |
| 72.5° | 696.2   | 728.4   | 753.4   | 798.1   | 1131.3  | 2066.1  | 4639.4  | 12608.0 | 14855.7 | 17652.7 | 24751.0 |
| 75°   | 646.5   | 676.4   | 693.7   | 738.5   | 1084.1  | 1892.1  | 3647.4  | 10668.7 | 11116.2 | 12279.8 | 19713.8 |
| 77.5° | 589.2   | 611.7   | 626.5   | 676.4   | 959.8   | 1573.9  | 2637.9  | 8229.6  | 8632.5  | 8915.9  | 15114.2 |
| 80°   | 522.1   | 544.5   | 552.0   | 599.2   | 795.6   | 1230.7  | 1720.5  | 6078.9  | 6456.9  | 6521.5  | 9870.6  |
| 82.5° | 445.0   | 467.4   | 467.4   | 512.2   | 651.4   | 885.1   | 1128.7  | 4164.5  | 4239.2  | 4457.9  | 6976.5  |
| 85°   | 358.1   | 375.5   | 375.5   | 397.8   | 504.7   | 661.3   | 775.7   | 2091.0  | 2068.6  | 2361.9  | 6044.2  |
| 87.5° | 256.1   | 268.6   | 280.9   | 285.9   | 360.5   | 437.6   | 467.4   | 636.6   | 420.2   | 482.4   | 3881.1  |
| 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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| 0°    | 15280.8 | 15280.8 | 15280.8 | 15280.8 | 15280.8 | 15280.8 | 15280.8 | 15280.8 |
| 2.5°  | 17553.3 | 17695.0 | 17550.8 | 17446.3 | 16996.4 | 16625.9 | 16131.1 | 15877.4 |
| 5°    | 18868.5 | 19229.0 | 19107.1 | 18669.5 | 17729.8 | 16673.1 | 15472.2 | 14930.2 |
| 7.5°  | 18709.3 | 19547.2 | 19567.1 | 18749.2 | 17364.2 | 15807.8 | 14181.9 | 13411.1 |
| 10°   | 17471.2 | 18542.8 | 18848.7 | 18055.5 | 16586.1 | 14845.7 | 12981.0 | 12100.8 |
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| 17.5° | 14268.8 | 14216.6 | 14296.2 | 14711.4 | 14828.2 | 14164.5 | 12834.2 | 11790.0 |
| 20°   | 14020.2 | 13222.1 | 13202.3 | 13774.1 | 14626.9 | 14952.5 | 14097.2 | 12844.2 |
| 22.5° | 14156.9 | 12864.0 | 12700.0 | 13378.8 | 14733.8 | 16088.9 | 15753.2 | 14323.6 |
| 25°   | 14629.4 | 12893.9 | 12762.1 | 13418.5 | 15121.7 | 17299.7 | 17540.8 | 16238.0 |
| 27.5° | 15372.8 | 13082.9 | 12908.9 | 13582.7 | 15636.3 | 18316.5 | 19301.0 | 18092.8 |
| 30°   | 16078.9 | 13411.1 | 13194.8 | 13905.9 | 16106.2 | 18719.3 | 20380.1 | 19539.8 |
| 32.5° | 16936.6 | 14025.2 | 13644.9 | 14500.2 | 16688.0 | 19360.7 | 21342.3 | 20738.2 |
| 35°   | 17777.0 | 14900.3 | 14428.0 | 15417.6 | 17336.9 | 20158.9 | 22441.3 | 22269.8 |
| 37.5° | 18699.4 | 16044.0 | 15653.7 | 16603.5 | 18224.6 | 20912.2 | 23843.5 | 24064.9 |
| 40°   | 19684.0 | 17560.7 | 17098.3 | 18333.9 | 19601.9 | 21857.0 | 25308.0 | 25840.1 |
| 42.5° | 20676.0 | 19244.0 | 18692.0 | 19945.1 | 21116.1 | 22789.4 | 26561.2 | 27349.2 |
| 45°   | 21812.3 | 21071.4 | 20810.3 | 22165.3 | 22570.6 | 23677.0 | 27486.1 | 28465.7 |
| 47.5° | 23135.0 | 23144.9 | 23565.1 | 24107.2 | 24037.5 | 24681.4 | 28415.9 | 29462.7 |
| 50°   | 24678.9 | 25733.2 | 26660.6 | 27021.1 | 25549.1 | 25760.5 | 29706.3 | 30797.8 |
| 52.5° | 26533.7 | 28828.6 | 29977.3 | 29741.1 | 27177.7 | 27078.3 | 31749.9 | 32637.6 |
| 55°   | 28853.5 | 32105.5 | 33246.7 | 33077.7 | 29049.9 | 28873.4 | 34295.9 | 34813.2 |
| 57.5° | 31538.7 | 35280.6 | 36329.8 | 35569.0 | 31297.6 | 30842.5 | 36401.9 | 36511.2 |
| 60°   | 33898.1 | 37796.7 | 38716.6 | 37873.7 | 33565.0 | 32938.5 | 37717.2 | 37187.6 |
| 62.5° | 35211.0 | 38649.5 | 39295.9 | 38388.5 | 35118.9 | 35171.1 | 38005.5 | 36822.0 |
| 65°   | 34624.2 | 36493.9 | 36702.7 | 36628.1 | 34718.7 | 36466.5 | 36968.8 | 35133.9 |
| 67.5° | 31411.9 | 31044.0 | 31394.4 | 31879.3 | 31287.6 | 34761.0 | 34097.1 | 31456.7 |
| 70°   | 25753.1 | 23731.6 | 24430.4 | 24756.1 | 25024.6 | 29912.7 | 29594.4 | 25621.3 |
| 72.5° | 19408.0 | 16625.9 | 17177.8 | 17110.6 | 18353.8 | 23992.8 | 23015.7 | 18838.7 |
| 75°   | 13751.7 | 11272.9 | 11342.5 | 11315.1 | 12807.0 | 18771.5 | 16665.7 | 12889.0 |
| 77.5° | 9621.9  | 8167.4  | 8204.9  | 8358.9  | 8610.0  | 14156.9 | 11906.8 | 9415.6  |
| 80°   | 6616.0  | 6198.4  | 6404.7  | 6417.2  | 5967.0  | 9510.0  | 8796.6  | 7555.9  |
| 82.5° | 4927.8  | 4308.7  | 4259.0  | 4331.1  | 4676.8  | 7705.1  | 6760.2  | 5241.1  |
| 85°   | 4035.3  | 2550.9  | 2051.3  | 2570.9  | 4144.6  | 7630.4  | 4490.2  | 2764.8  |
| 87.5° | 2272.5  | 1210.8  | 547.0   | 1014.4  | 1653.4  | 5052.1  | 1297.9  | 353.0   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

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