

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: P382698

Luminaire Tested: **GAN-SA0D-735-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382698  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0D-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50894.2 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

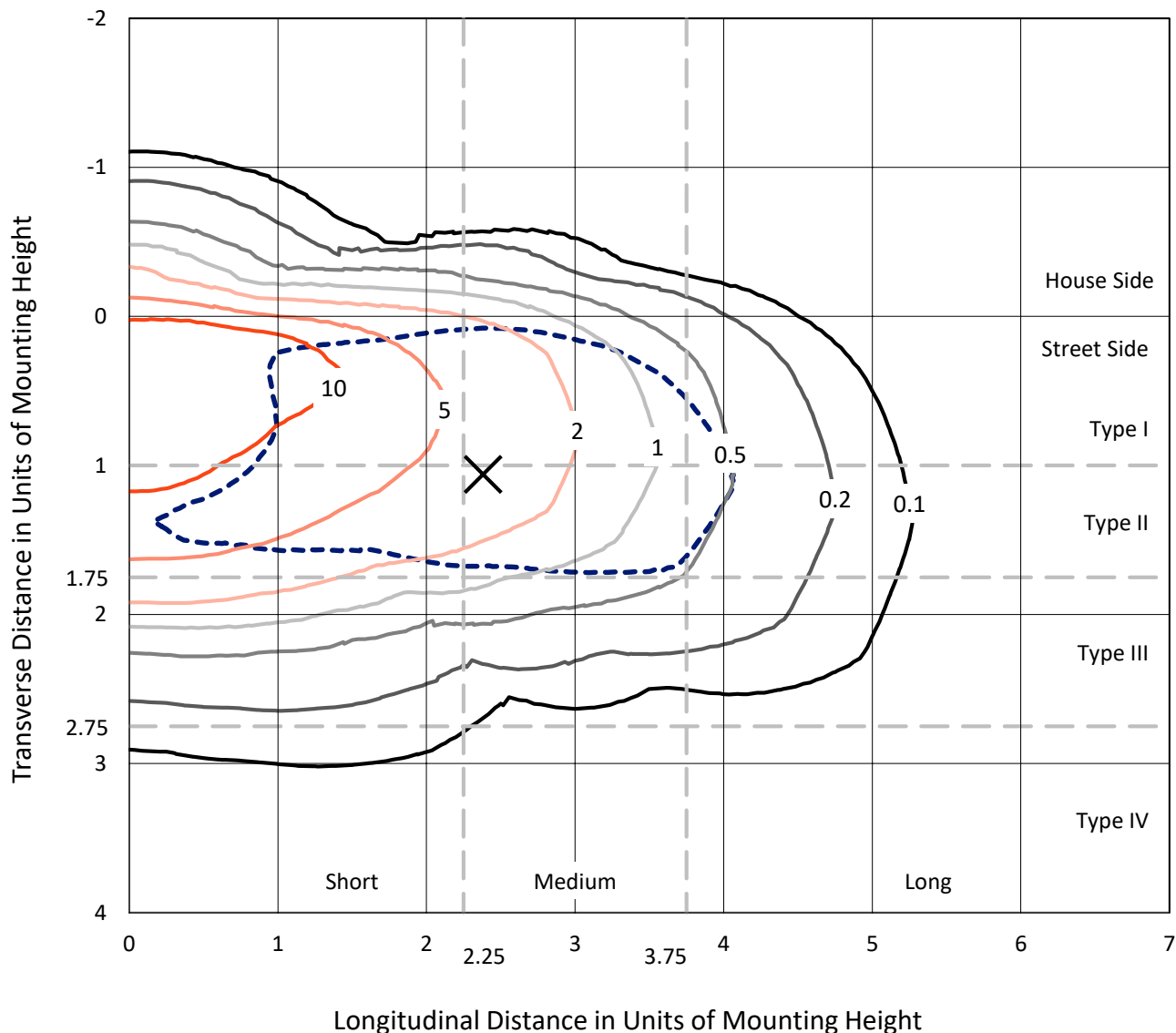
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

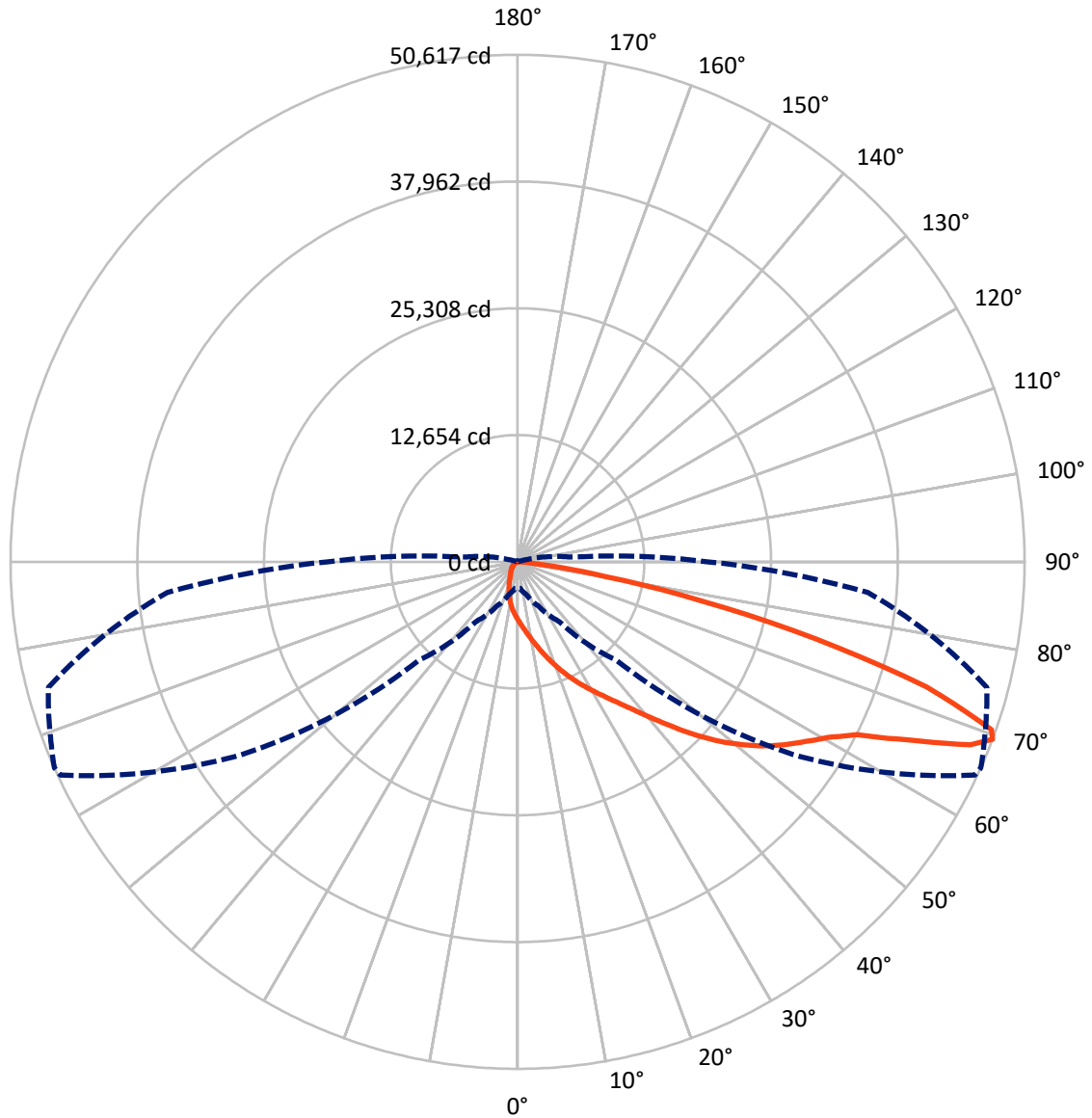
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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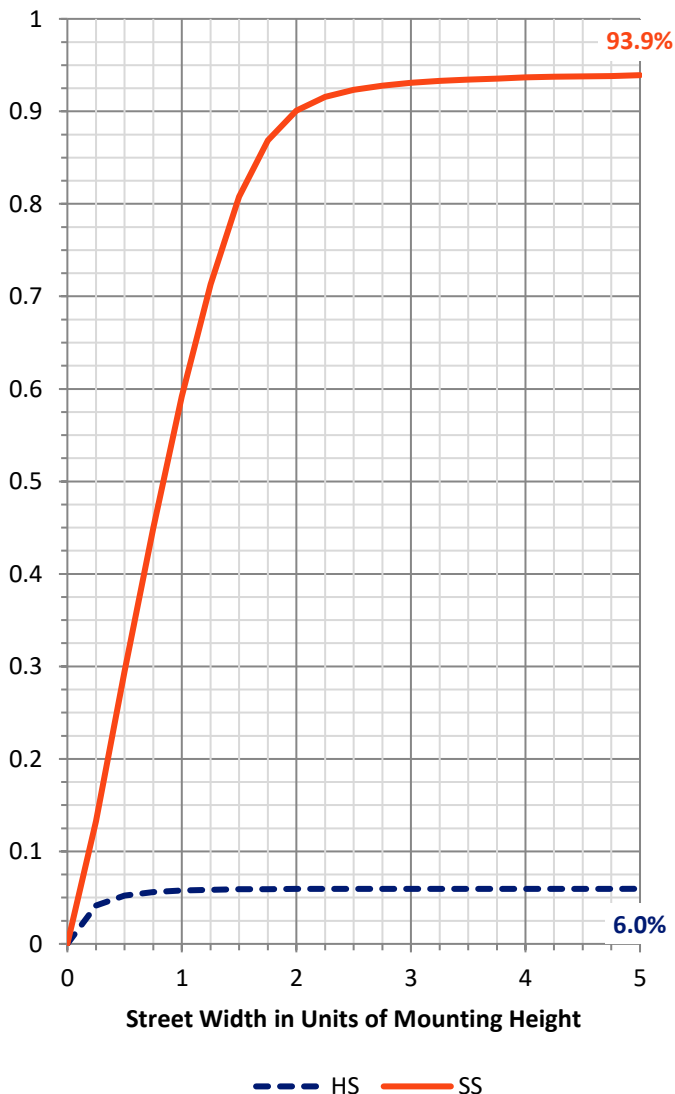
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3052.9   | 0.0    | 3052.9  |
|                    | % Fixture | 6.0      | 0.0    | 6.0     |
| <b>Street Side</b> | Lumens    | 47841.2  | 0.0    | 47841.2 |
|                    | % Fixture | 94.0     | 0.0    | 94.0    |
| <b>Total</b>       | Lumens    | 50894.2  | 0.0    | 50894.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 559.9   | 1.1       |
| 10°-20°   | 1666.3  | 3.3       |
| 20°-30°   | 2901.6  | 5.7       |
| 30°-40°   | 5090.8  | 10.0      |
| 40°-50°   | 8521.2  | 16.7      |
| 50°-60°   | 12525.4 | 24.6      |
| 60°-70°   | 12860.4 | 25.3      |
| 70°-80°   | 6348.8  | 12.5      |
| 80°-90°   | 419.8   | 0.8       |
| 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°    | 50894.2 | 100.0     |
| 0°-180°   | 50894.2 | 100.0     |

**Coefficient of Utilization**

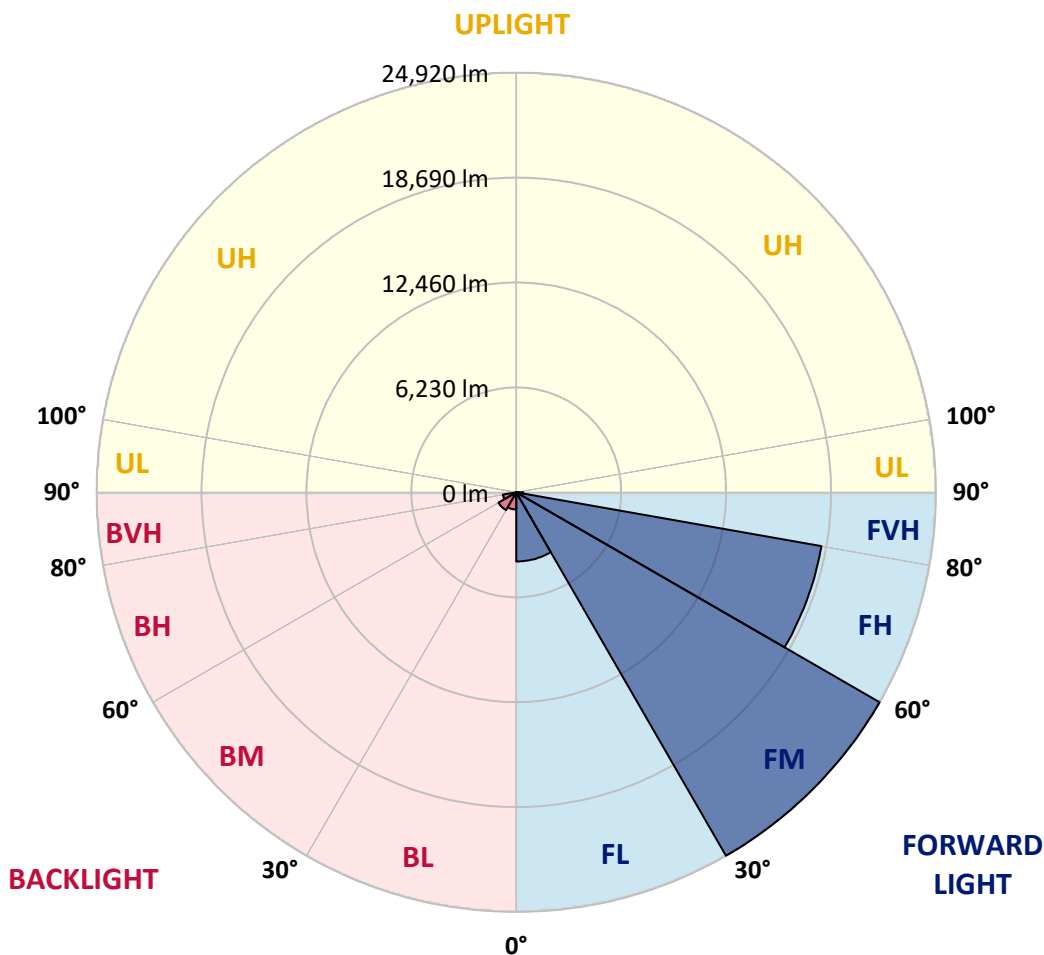


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4106.7  | 8.1       |                         |      |         |
| FM (30°-60°)   | 24920.2 | 49.0      |                         |      |         |
| FH (60°-80°)   | 18404.7 | 36.2      |                         |      | G5      |
| FVH (80°-90°)  | 409.6   | 0.8       |                         |      | G3/500  |
| BL (0°-30°)    | 1021.0  | 2.0       | B3/2500                 |      |         |
| BM (30°-60°)   | 1217.2  | 2.4       | B2/2500                 |      |         |
| BH (60°-80°)   | 804.5   | 1.6       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 10.1    | 0.0       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5791.9  | 5791.9  | 5791.9  | 5791.9  | 5791.9  | 5791.9  | 5791.9  | 5791.9  | 5791.9  | 5791.9  | 5791.9  |
| 2.5°  | 6816.9  | 6787.8  | 6775.8  | 6722.6  | 6630.8  | 6560.6  | 6425.3  | 6268.1  | 6239.1  | 6086.8  | 5900.7  |
| 5°    | 7701.6  | 7677.4  | 7660.5  | 7585.6  | 7491.3  | 7314.8  | 7068.3  | 6775.8  | 6720.2  | 6430.1  | 6057.9  |
| 7.5°  | 8318.1  | 8361.6  | 8361.6  | 8313.2  | 8194.7  | 8061.8  | 7759.6  | 7360.8  | 7290.7  | 6845.9  | 6268.1  |
| 10°   | 8678.2  | 8731.4  | 8772.5  | 8813.6  | 8796.7  | 8743.5  | 8458.3  | 8008.6  | 7924.0  | 7334.2  | 6512.3  |
| 12.5° | 8712.0  | 8765.2  | 8881.3  | 9052.9  | 9219.7  | 9340.5  | 9161.7  | 8726.6  | 8629.9  | 7899.8  | 6802.3  |
| 15°   | 8523.5  | 8579.1  | 8757.9  | 9091.5  | 9495.3  | 9848.2  | 9906.2  | 9521.8  | 9422.8  | 8574.2  | 7165.0  |
| 17.5° | 8194.7  | 8231.0  | 8487.2  | 8948.9  | 9582.3  | 10230.2 | 10580.6 | 10375.2 | 10283.4 | 9345.4  | 7568.6  |
| 20°   | 7950.6  | 7977.2  | 8202.0  | 8697.6  | 9529.1  | 10469.5 | 11218.8 | 11281.7 | 11185.0 | 10172.1 | 8006.2  |
| 22.5° | 8368.8  | 8417.2  | 8424.4  | 8658.8  | 9384.0  | 10587.9 | 11779.6 | 12173.7 | 12101.2 | 11049.6 | 8436.5  |
| 25°   | 9512.2  | 9567.8  | 9384.0  | 9239.0  | 9507.4  | 10641.1 | 12260.7 | 13087.4 | 13029.4 | 11994.8 | 8869.2  |
| 27.5° | 11023.0 | 11081.0 | 10844.1 | 10411.4 | 10152.8 | 10841.7 | 12688.5 | 14015.7 | 14013.3 | 12995.6 | 9335.7  |
| 30°   | 12507.2 | 12565.3 | 12323.5 | 11890.8 | 11296.1 | 11409.8 | 13058.4 | 14987.5 | 15001.9 | 14027.8 | 9831.3  |
| 32.5° | 14064.0 | 14136.5 | 13887.5 | 13331.6 | 12710.3 | 12391.3 | 13578.1 | 15964.0 | 16046.2 | 15224.4 | 10389.6 |
| 35°   | 15833.5 | 15843.2 | 15492.7 | 14910.1 | 14194.5 | 13703.8 | 14412.2 | 17059.1 | 17254.9 | 16706.2 | 11098.0 |
| 37.5° | 17569.2 | 17639.2 | 17351.6 | 16433.0 | 15775.5 | 15219.5 | 15652.2 | 18427.3 | 18705.3 | 18516.7 | 12023.8 |
| 40°   | 18855.2 | 19002.6 | 18961.6 | 17970.4 | 17346.7 | 16950.3 | 17192.1 | 20054.2 | 20407.1 | 20624.7 | 13191.4 |
| 42.5° | 19662.5 | 19773.8 | 19962.3 | 19365.2 | 18799.6 | 18864.9 | 19009.9 | 21949.3 | 22384.4 | 23027.5 | 14533.0 |
| 45°   | 20588.4 | 20641.6 | 20798.7 | 20535.2 | 20153.3 | 20810.8 | 20938.9 | 24083.9 | 24540.7 | 25611.6 | 16022.1 |
| 47.5° | 21719.7 | 21845.4 | 21888.9 | 21647.2 | 21473.1 | 22531.9 | 22797.9 | 26024.9 | 26665.6 | 28379.4 | 17598.1 |
| 50°   | 23160.4 | 23194.2 | 23269.2 | 23112.1 | 22938.1 | 24011.3 | 24465.8 | 28062.8 | 28645.4 | 31156.9 | 19152.5 |
| 52.5° | 24569.8 | 24690.6 | 24951.7 | 24852.6 | 24782.4 | 25270.7 | 25952.5 | 29900.0 | 30550.2 | 33472.7 | 20704.4 |
| 55°   | 24975.8 | 25079.8 | 25981.4 | 26597.8 | 27168.4 | 26822.7 | 27373.8 | 31546.1 | 32249.6 | 35542.0 | 22198.3 |
| 57.5° | 23353.8 | 23564.1 | 25125.7 | 26730.9 | 29097.4 | 29235.1 | 29327.1 | 33235.8 | 33866.8 | 37127.8 | 23752.7 |
| 60°   | 19254.1 | 19295.1 | 21857.5 | 24610.8 | 28778.3 | 31340.7 | 32179.5 | 35051.2 | 35580.6 | 38604.7 | 25614.0 |
| 62.5° | 12246.2 | 12664.4 | 15475.7 | 19362.8 | 25403.7 | 31036.1 | 35629.0 | 37797.4 | 37990.7 | 40376.6 | 28282.7 |
| 65°   | 5833.0  | 6103.8  | 8129.5  | 11963.4 | 18400.7 | 27136.9 | 38010.1 | 42764.9 | 42852.0 | 43889.0 | 31848.3 |
| 67.5° | 3229.6  | 3360.1  | 4324.6  | 6439.8  | 10757.1 | 19191.2 | 37048.0 | 48648.8 | 48730.9 | 47476.3 | 34976.4 |
| 69°   | 2526.1  | 2637.3  | 3396.3  | 4854.0  | 7293.1  | 13793.2 | 33525.9 | 50372.3 | 50616.5 | 48503.7 | 35087.5 |
| 70°   | 2144.1  | 2252.9  | 2925.0  | 4099.8  | 5864.5  | 10658.0 | 29841.9 | 49944.5 | 50203.1 | 48407.0 | 34258.4 |
| 72.5° | 1312.6  | 1375.4  | 1948.3  | 2886.3  | 3930.6  | 5361.6  | 18403.1 | 42238.0 | 42675.5 | 44403.9 | 29443.1 |
| 75°   | 884.8   | 918.6   | 1218.4  | 1991.8  | 2811.3  | 2760.5  | 9560.6  | 29771.8 | 30719.5 | 34541.2 | 21746.3 |
| 77.5° | 633.4   | 664.8   | 817.1   | 1288.4  | 1970.1  | 1822.7  | 4329.5  | 18502.2 | 18705.3 | 20716.5 | 11859.4 |
| 80°   | 360.1   | 389.2   | 577.7   | 766.3   | 1336.8  | 1215.9  | 1721.1  | 8837.8  | 8939.3  | 8883.7  | 3959.5  |
| 82.5° | 188.5   | 212.8   | 316.6   | 505.2   | 858.1   | 795.3   | 715.5   | 2958.8  | 2973.3  | 2472.9  | 867.8   |
| 85°   | 36.2    | 43.5    | 157.2   | 345.7   | 442.4   | 345.7   | 292.5   | 693.8   | 708.3   | 626.1   | 215.2   |
| 87.5° | 0.0     | 2.4     | 62.9    | 77.3    | 87.0    | 89.4    | 94.3    | 135.4   | 145.0   | 195.8   | 58.0    |
| 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):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5791.9  | 5791.9 | 5791.9 | 5791.9 | 5791.9 | 5791.9 | 5791.9 | 5791.9 | 5791.9 | 5791.9 | 5791.9 |
| 2.5°  | 5818.5  | 5731.5 | 5564.7 | 5371.3 | 5221.4 | 5074.0 | 4958.0 | 4837.1 | 4793.6 | 4771.9 | 4769.4 |
| 5°    | 5876.5  | 5692.8 | 5339.9 | 4977.3 | 4679.9 | 4399.5 | 4198.9 | 4007.9 | 3918.5 | 3877.4 | 3860.5 |
| 7.5°  | 5973.2  | 5678.3 | 5110.2 | 4556.7 | 4128.8 | 3778.3 | 3500.3 | 3292.4 | 3188.5 | 3144.9 | 3128.0 |
| 10°   | 6086.8  | 5659.0 | 4841.9 | 4111.9 | 3565.6 | 3202.9 | 2927.4 | 2721.9 | 2608.3 | 2560.0 | 2535.8 |
| 12.5° | 6219.8  | 5625.2 | 4532.5 | 3662.3 | 3084.5 | 2721.9 | 2388.3 | 2134.5 | 2003.9 | 1948.3 | 1921.8 |
| 15°   | 6384.2  | 5591.2 | 4208.5 | 3239.2 | 2661.5 | 2219.1 | 1854.1 | 1682.5 | 1655.8 | 1646.2 | 1648.7 |
| 17.5° | 6546.2  | 5538.1 | 3855.7 | 2821.0 | 2216.7 | 1733.2 | 1547.1 | 1537.4 | 1542.3 | 1542.3 | 1542.3 |
| 20°   | 6691.1  | 5417.2 | 3471.3 | 2463.3 | 1793.7 | 1462.5 | 1423.8 | 1406.9 | 1394.8 | 1385.1 | 1373.0 |
| 22.5° | 6804.8  | 5255.2 | 3101.4 | 2107.9 | 1464.9 | 1339.2 | 1278.7 | 1225.5 | 1182.0 | 1153.1 | 1138.5 |
| 25°   | 6882.2  | 5040.1 | 2763.0 | 1767.1 | 1317.5 | 1218.4 | 1109.6 | 1020.1 | 952.4  | 911.3  | 894.4  |
| 27.5° | 6940.1  | 4808.1 | 2460.9 | 1479.4 | 1215.9 | 1078.2 | 935.5  | 829.2  | 759.0  | 722.8  | 708.3  |
| 30°   | 6981.2  | 4544.6 | 2194.9 | 1300.5 | 1102.3 | 930.7  | 778.4  | 674.4  | 623.7  | 604.3  | 594.7  |
| 32.5° | 7020.0  | 4252.0 | 1943.5 | 1215.9 | 995.9  | 795.3  | 652.6  | 572.9  | 541.5  | 517.3  | 510.0  |
| 35°   | 7116.7  | 3981.3 | 1704.2 | 1126.5 | 887.2  | 679.3  | 560.8  | 502.8  | 471.4  | 456.8  | 452.1  |
| 37.5° | 7346.3  | 3780.7 | 1474.5 | 1034.6 | 778.4  | 587.4  | 490.7  | 449.7  | 420.6  | 406.2  | 401.3  |
| 40°   | 7716.1  | 3679.1 | 1281.2 | 935.5  | 672.0  | 517.3  | 444.8  | 406.2  | 374.7  | 353.0  | 348.1  |
| 42.5° | 8260.0  | 3693.7 | 1145.8 | 836.4  | 587.4  | 461.7  | 401.3  | 355.4  | 321.5  | 302.2  | 297.3  |
| 45°   | 8919.9  | 3800.1 | 1051.5 | 739.7  | 517.3  | 418.2  | 353.0  | 304.6  | 273.1  | 256.3  | 251.4  |
| 47.5° | 9635.5  | 3971.7 | 974.2  | 652.6  | 461.7  | 377.1  | 304.6  | 253.8  | 227.2  | 212.8  | 210.3  |
| 50°   | 10389.6 | 4138.5 | 894.4  | 568.1  | 413.3  | 336.0  | 256.3  | 210.3  | 188.5  | 176.4  | 171.6  |
| 52.5° | 11153.5 | 4331.9 | 821.9  | 490.7  | 372.2  | 287.7  | 212.8  | 171.6  | 154.7  | 145.0  | 140.2  |
| 55°   | 11975.4 | 4476.9 | 751.8  | 430.3  | 331.2  | 244.2  | 176.4  | 142.6  | 128.1  | 116.1  | 113.6  |
| 57.5° | 12942.4 | 4701.7 | 679.3  | 372.2  | 282.8  | 203.1  | 145.0  | 113.6  | 101.5  | 89.4   | 87.0   |
| 60°   | 14247.7 | 4965.1 | 601.9  | 328.7  | 232.0  | 166.8  | 118.5  | 91.9   | 77.3   | 67.7   | 65.3   |
| 62.5° | 15968.9 | 5257.7 | 505.2  | 287.7  | 188.5  | 135.4  | 94.3   | 72.5   | 55.6   | 43.5   | 43.5   |
| 65°   | 18151.8 | 5733.9 | 413.3  | 241.7  | 154.7  | 111.2  | 72.5   | 53.2   | 31.4   | 19.4   | 19.4   |
| 67.5° | 19425.7 | 5816.1 | 333.6  | 198.2  | 125.7  | 94.3   | 60.5   | 36.2   | 9.7    | 2.4    | 0.0    |
| 69°   | 19017.2 | 5339.9 | 282.8  | 169.2  | 108.8  | 89.4   | 55.6   | 26.5   | 4.8    | 0.0    | 0.0    |
| 70°   | 18248.5 | 4883.0 | 249.0  | 149.9  | 99.1   | 84.6   | 53.2   | 19.4   | 4.8    | 0.0    | 0.0    |
| 72.5° | 15079.3 | 3476.2 | 188.5  | 111.2  | 72.5   | 74.9   | 48.3   | 12.1   | 4.8    | 0.0    | 0.0    |
| 75°   | 10984.3 | 2112.7 | 135.4  | 77.3   | 45.9   | 55.6   | 33.8   | 4.8    | 2.4    | 0.0    | 0.0    |
| 77.5° | 6111.0  | 995.9  | 84.6   | 43.5   | 29.0   | 33.8   | 17.0   | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 1984.7  | 270.7  | 38.7   | 24.1   | 17.0   | 19.4   | 7.3    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 367.4   | 77.3   | 21.8   | 12.1   | 4.8    | 4.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 79.7    | 31.4   | 12.1   | 4.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 26.5    | 9.7    | 2.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)