

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: P319650

Luminaire Tested: **GAN-SA6C-730-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319650  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA6C-730-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38529 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

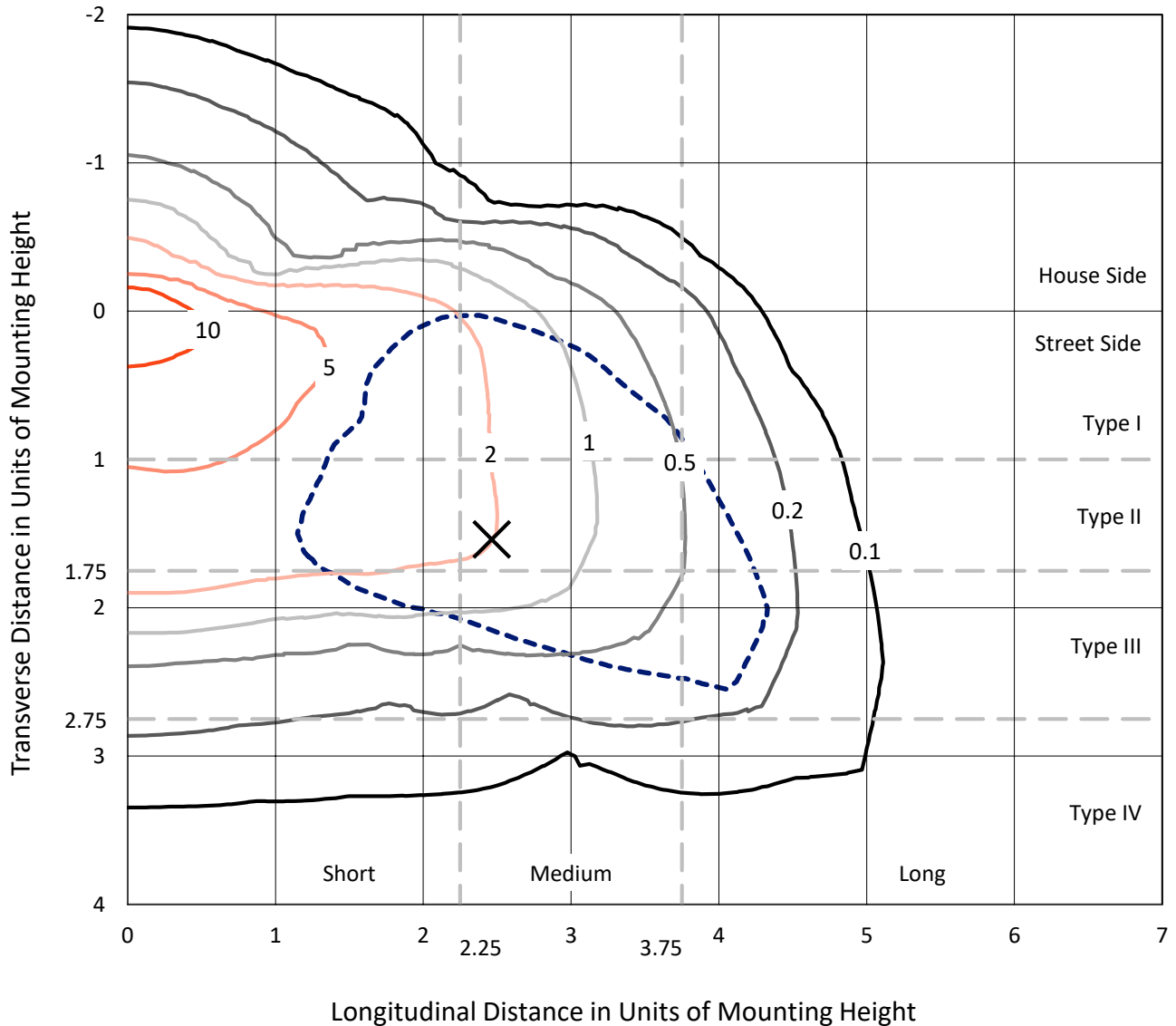
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

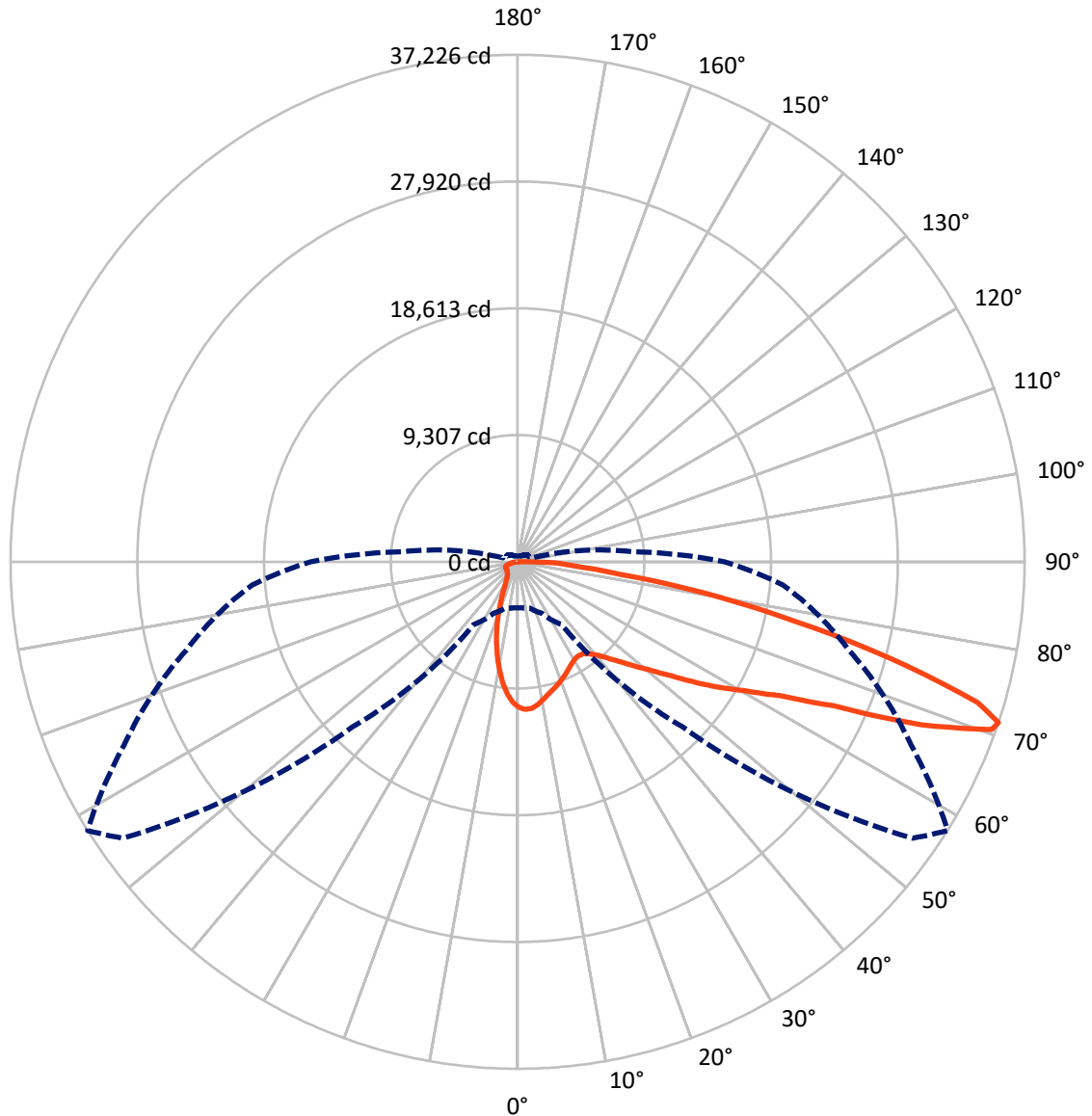
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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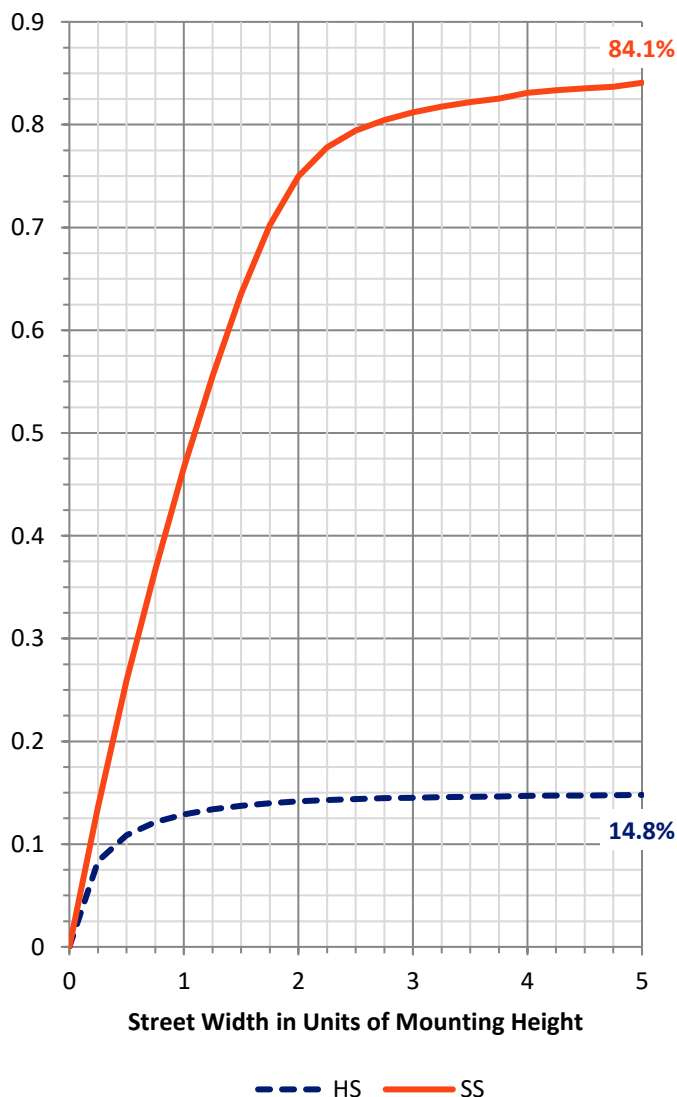
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5760.3   | 0.0    | 5760.3  |
|                    | % Fixture | 15.0     | 0.0    | 15.0    |
| <b>Street Side</b> | Lumens    | 32768.7  | 0.0    | 32768.7 |
|                    | % Fixture | 85.0     | 0.0    | 85.0    |
| <b>Total</b>       | Lumens    | 38529.0  | 0.0    | 38529.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 920.9   | 2.4       |
| 10°-20°   | 2047.8  | 5.3       |
| 20°-30°   | 2602.6  | 6.8       |
| 30°-40°   | 3315.2  | 8.6       |
| 40°-50°   | 4701.1  | 12.2      |
| 50°-60°   | 7275.1  | 18.9      |
| 60°-70°   | 9904.1  | 25.7      |
| 70°-80°   | 6607.2  | 17.1      |
| 80°-90°   | 1155.2  | 3.0       |
| 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°    | 38529.0 | 100.0     |
| 0°-180°   | 38529.0 | 100.0     |

**Coefficient of Utilization**

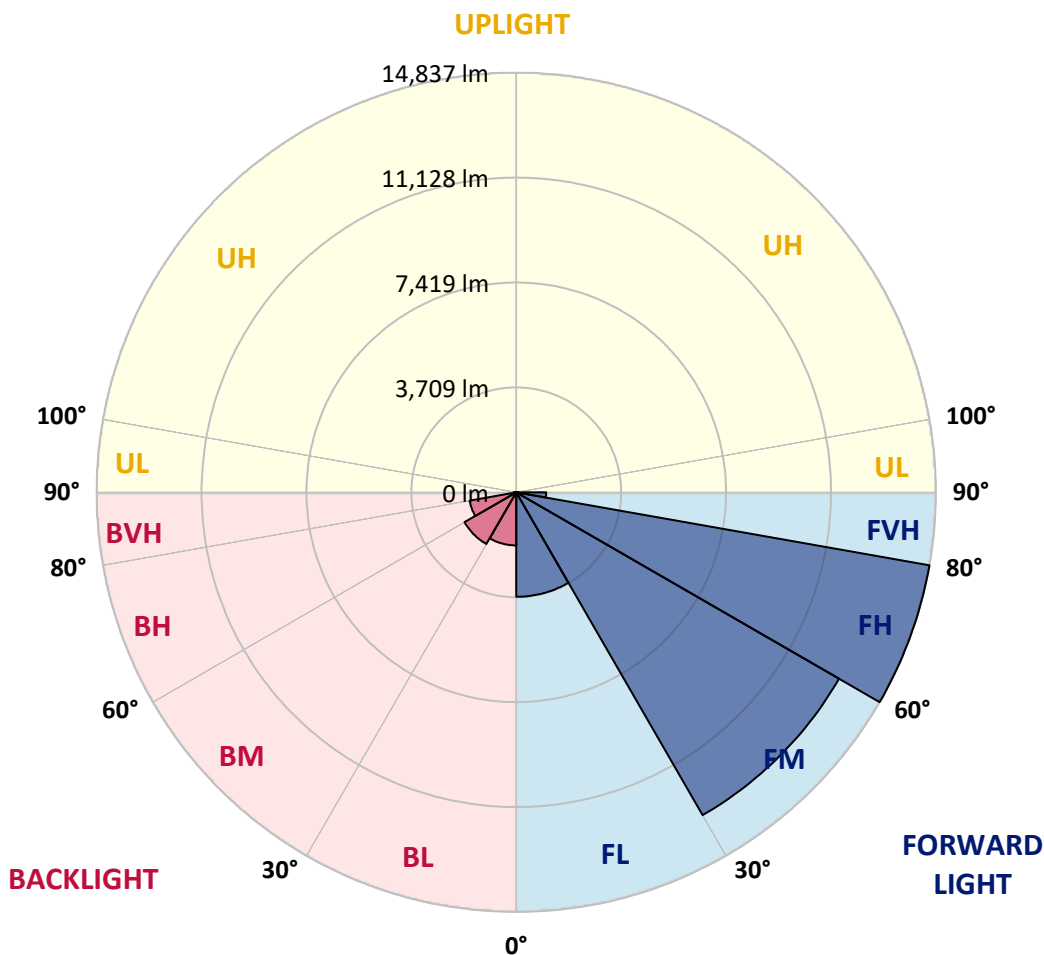


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3693.6  | 9.6       |                         |      |         |
| FM (30°-60°)   | 13178.8 | 34.2      |                         |      |         |
| FH (60°-80°)   | 14837.0 | 38.5      |                         |      | G5      |
| FVH (80°-90°)  | 1059.2  | 2.7       |                         |      | G5      |
| BL (0°-30°)    | 1877.7  | 4.9       | B3/2500                 |      |         |
| BM (30°-60°)   | 2112.5  | 5.5       | B2/2500                 |      |         |
| BH (60°-80°)   | 1674.2  | 4.3       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 96.0    | 0.2       |                         |      | 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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10675.1 | 10675.1 | 10675.1 | 10675.1 | 10675.1 | 10675.1 | 10675.1 | 10675.1 | 10675.1 | 10675.1 | 10675.1 |
| 2.5°  | 10958.3 | 10943.5 | 10948.9 | 10938.2 | 10912.7 | 10887.2 | 10849.6 | 10856.3 | 10804.0 | 10726.1 | 10629.5 |
| 5°    | 10751.6 | 10746.2 | 10786.5 | 10809.3 | 10828.1 | 10813.3 | 10802.6 | 10816.0 | 10739.5 | 10632.2 | 10464.4 |
| 7.5°  | 10318.1 | 10259.1 | 10310.1 | 10386.6 | 10459.0 | 10514.1 | 10586.5 | 10595.9 | 10547.6 | 10434.9 | 10214.8 |
| 10°   | 9702.1  | 9645.7  | 9720.9  | 9840.3  | 9985.3  | 10116.8 | 10263.1 | 10289.9 | 10299.3 | 10197.3 | 9930.2  |
| 12.5° | 9063.2  | 9020.3  | 9095.5  | 9263.2  | 9503.5  | 9706.1  | 9939.6  | 9979.9  | 10063.1 | 9994.7  | 9667.2  |
| 15°   | 8491.5  | 8475.4  | 8566.7  | 8731.7  | 9008.2  | 9318.2  | 9655.1  | 9728.9  | 9869.8  | 9847.0  | 9461.8  |
| 17.5° | 7997.6  | 7993.6  | 8063.4  | 8236.5  | 8542.5  | 8934.4  | 9371.9  | 9496.7  | 9706.1  | 9733.0  | 9292.7  |
| 20°   | 7629.9  | 7621.8  | 7670.1  | 7797.6  | 8113.0  | 8557.3  | 9065.9  | 9237.7  | 9539.7  | 9633.6  | 9118.3  |
| 22.5° | 7432.6  | 7431.2  | 7432.6  | 7493.0  | 7750.7  | 8164.0  | 8768.0  | 8977.3  | 9377.3  | 9554.5  | 8925.0  |
| 25°   | 7399.0  | 7395.0  | 7365.5  | 7358.8  | 7505.1  | 7835.2  | 8472.7  | 8703.6  | 9223.0  | 9499.4  | 8741.1  |
| 27.5° | 7486.3  | 7491.6  | 7452.7  | 7389.6  | 7419.2  | 7619.1  | 8216.4  | 8463.3  | 9099.5  | 9488.7  | 8613.6  |
| 30°   | 7667.4  | 7664.8  | 7631.2  | 7565.4  | 7507.7  | 7538.6  | 8033.8  | 8280.8  | 9016.3  | 9535.7  | 8526.4  |
| 32.5° | 7867.4  | 7882.2  | 7875.5  | 7839.2  | 7753.3  | 7629.9  | 7978.8  | 8220.4  | 8992.1  | 9648.4  | 8488.8  |
| 35°   | 8107.7  | 8123.8  | 8172.1  | 8200.3  | 8099.6  | 7901.0  | 8096.9  | 8306.3  | 9061.9  | 9860.5  | 8549.2  |
| 37.5° | 8335.8  | 8377.4  | 8513.0  | 8632.4  | 8546.5  | 8325.1  | 8411.0  | 8560.0  | 9278.0  | 10194.6 | 8711.6  |
| 40°   | 8598.9  | 8635.1  | 8856.6  | 9110.2  | 9096.8  | 8867.3  | 8917.0  | 9016.3  | 9659.1  | 10673.8 | 9005.5  |
| 42.5° | 8857.9  | 8930.4  | 9251.1  | 9610.8  | 9714.2  | 9511.5  | 9590.7  | 9643.0  | 10196.0 | 11308.6 | 9518.2  |
| 45°   | 9202.8  | 9280.7  | 9726.2  | 10159.7 | 10401.3 | 10287.2 | 10413.4 | 10433.5 | 10871.1 | 12172.9 | 10263.1 |
| 47.5° | 9724.9  | 9813.5  | 10332.9 | 10787.8 | 11156.9 | 11169.0 | 11377.0 | 11369.0 | 11713.9 | 13162.0 | 11201.2 |
| 50°   | 10538.2 | 10665.7 | 11091.2 | 11516.6 | 11964.9 | 12214.5 | 12492.3 | 12453.4 | 12724.5 | 14215.6 | 12281.6 |
| 52.5° | 11603.8 | 11662.9 | 11978.3 | 12292.3 | 12849.3 | 13409.0 | 13807.6 | 13772.7 | 13870.7 | 15298.7 | 13508.3 |
| 55°   | 12708.4 | 12752.7 | 12882.9 | 13054.7 | 13803.6 | 14716.2 | 15559.0 | 15504.0 | 15255.7 | 16423.3 | 14720.2 |
| 57.5° | 13701.6 | 13791.5 | 13881.4 | 13952.5 | 14764.5 | 16082.5 | 17350.7 | 17354.8 | 16758.9 | 17636.6 | 15972.4 |
| 60°   | 13855.9 | 13935.1 | 14529.6 | 15090.6 | 16408.6 | 17905.0 | 19268.6 | 19228.3 | 18314.4 | 18953.2 | 17368.2 |
| 62.5° | 12248.1 | 12426.6 | 13419.7 | 14912.1 | 17992.3 | 21238.8 | 21715.3 | 21665.6 | 20174.5 | 20575.8 | 18993.5 |
| 65°   | 8777.4  | 8980.0  | 10178.5 | 12421.2 | 17224.6 | 24912.2 | 26130.8 | 25462.4 | 22711.1 | 22571.5 | 20896.6 |
| 67.5° | 5063.8  | 5112.1  | 5631.5  | 7432.6  | 13115.1 | 25104.1 | 32866.8 | 31931.4 | 26650.2 | 24835.7 | 21828.0 |
| 70°   | 3744.5  | 3743.1  | 3866.6  | 4573.9  | 7097.1  | 20488.6 | 36070.4 | 36909.2 | 30797.3 | 25580.5 | 20511.4 |
| 71°   | 3386.1  | 3390.2  | 3528.4  | 4163.2  | 5620.7  | 17149.4 | 35390.0 | 37226.0 | 31889.8 | 25212.8 | 19558.5 |
| 72.5° | 2896.3  | 2909.7  | 3101.6  | 3733.7  | 4728.2  | 11826.6 | 32458.8 | 35325.6 | 32407.8 | 24305.5 | 18067.4 |
| 75°   | 2197.0  | 2227.9  | 2493.6  | 3147.2  | 4321.6  | 5997.9  | 23822.4 | 28208.4 | 28789.5 | 21446.8 | 13425.1 |
| 77.5° | 1567.6  | 1602.5  | 1903.1  | 2646.6  | 4108.2  | 4520.2  | 15953.6 | 20575.8 | 21186.5 | 13744.5 | 6055.6  |
| 80°   | 990.5   | 1032.1  | 1258.9  | 2105.8  | 3859.9  | 4292.1  | 10025.5 | 13830.4 | 11552.8 | 4398.1  | 1540.7  |
| 82.5° | 581.1   | 613.3   | 781.1   | 1375.7  | 3152.6  | 4133.7  | 5898.6  | 7666.1  | 4496.1  | 1328.7  | 700.6   |
| 85°   | 336.9   | 351.6   | 487.2   | 876.4   | 2289.6  | 3901.5  | 4333.7  | 4285.3  | 1951.4  | 649.6   | 331.5   |
| 87.5° | 157.0   | 174.5   | 288.6   | 457.7   | 1271.0  | 2827.8  | 3425.1  | 2959.3  | 1213.3  | 304.7   | 155.7   |
| 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):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10675.1 | 10675.1 | 10675.1 | 10675.1 | 10675.1 | 10675.1 | 10675.1 | 10675.1 | 10675.1 | 10675.1 | 10675.1 |
| 2.5°  | 10582.5 | 10559.7 | 10464.4 | 10379.8 | 10291.3 | 10175.8 | 10048.3 | 10032.2 | 9954.4  | 9969.2  | 9942.3  |
| 5°    | 10373.1 | 10315.4 | 10085.9 | 9877.9  | 9632.3  | 9412.2  | 9173.3  | 9063.2  | 8904.9  | 8894.1  | 8853.9  |
| 7.5°  | 10073.8 | 9966.5  | 9610.8  | 9216.2  | 8821.7  | 8445.9  | 8074.1  | 7829.8  | 7580.2  | 7474.2  | 7464.8  |
| 10°   | 9737.0  | 9554.5  | 9031.0  | 8447.2  | 7878.2  | 7329.2  | 6797.8  | 6404.5  | 6050.2  | 5882.4  | 5875.7  |
| 12.5° | 9417.6  | 9147.8  | 8429.8  | 7635.2  | 6856.8  | 6145.5  | 5416.7  | 4900.0  | 4455.8  | 4306.8  | 4243.7  |
| 15°   | 9146.5  | 8766.6  | 7844.6  | 6828.6  | 5883.8  | 4896.0  | 4066.6  | 3523.0  | 3112.3  | 2970.1  | 2943.2  |
| 17.5° | 8883.4  | 8394.9  | 7244.7  | 6014.0  | 4871.8  | 3786.1  | 2955.3  | 2551.3  | 2332.6  | 2274.9  | 2273.5  |
| 20°   | 8621.7  | 8012.4  | 6617.9  | 5180.5  | 3893.4  | 2831.8  | 2272.2  | 2091.0  | 2017.2  | 2010.5  | 1999.7  |
| 22.5° | 8325.1  | 7607.1  | 5958.9  | 4344.4  | 3038.5  | 2226.6  | 1931.3  | 1858.8  | 1849.4  | 1873.6  | 1873.6  |
| 25°   | 8047.3  | 7204.4  | 5290.6  | 3525.7  | 2363.4  | 1857.5  | 1724.6  | 1709.8  | 1735.3  | 1778.3  | 1782.3  |
| 27.5° | 7788.2  | 6816.6  | 4638.3  | 2798.3  | 1893.7  | 1636.0  | 1581.0  | 1598.4  | 1644.1  | 1693.7  | 1695.1  |
| 30°   | 7574.8  | 6450.2  | 4004.8  | 2205.1  | 1599.8  | 1470.9  | 1461.6  | 1496.4  | 1546.1  | 1585.0  | 1594.4  |
| 32.5° | 7409.8  | 6137.4  | 3392.8  | 1772.9  | 1407.9  | 1347.5  | 1355.5  | 1385.1  | 1415.9  | 1437.4  | 1452.2  |
| 35°   | 7333.3  | 5869.0  | 2827.8  | 1495.1  | 1285.7  | 1252.2  | 1262.9  | 1279.0  | 1292.4  | 1308.6  | 1320.6  |
| 37.5° | 7346.7  | 5661.0  | 2323.2  | 1322.0  | 1203.9  | 1186.4  | 1186.4  | 1186.4  | 1186.4  | 1194.5  | 1195.8  |
| 40°   | 7471.5  | 5541.6  | 1912.5  | 1211.9  | 1148.8  | 1130.1  | 1115.3  | 1101.9  | 1091.1  | 1096.5  | 1093.8  |
| 42.5° | 7790.9  | 5530.8  | 1611.9  | 1142.1  | 1104.6  | 1073.7  | 1044.2  | 1025.4  | 1011.9  | 1017.3  | 1020.0  |
| 45°   | 8333.1  | 5665.0  | 1409.2  | 1092.5  | 1062.9  | 1016.0  | 978.4   | 958.3   | 948.9   | 966.3   | 969.0   |
| 47.5° | 9035.1  | 5957.6  | 1285.7  | 1056.2  | 1024.0  | 962.3   | 922.0   | 903.2   | 905.9   | 931.4   | 938.1   |
| 50°   | 9939.6  | 6432.7  | 1226.7  | 1033.4  | 997.2   | 916.7   | 875.1   | 858.9   | 867.0   | 903.2   | 911.3   |
| 52.5° | 10932.8 | 7117.2  | 1233.4  | 1026.7  | 979.7   | 883.1   | 838.8   | 820.0   | 833.4   | 867.0   | 873.7   |
| 55°   | 12079.0 | 7939.9  | 1344.8  | 1036.1  | 954.2   | 861.6   | 809.3   | 777.1   | 787.8   | 818.7   | 824.1   |
| 57.5° | 13352.6 | 8882.1  | 1568.9  | 1033.4  | 922.0   | 841.5   | 778.4   | 730.1   | 738.2   | 756.9   | 762.3   |
| 60°   | 14678.6 | 10020.2 | 1916.5  | 1041.5  | 907.3   | 817.3   | 736.8   | 676.4   | 673.7   | 689.8   | 692.5   |
| 62.5° | 16270.3 | 11336.8 | 2313.8  | 1046.8  | 916.7   | 786.5   | 681.8   | 622.7   | 614.7   | 618.7   | 621.4   |
| 65°   | 17910.4 | 12289.7 | 2164.8  | 1025.4  | 946.2   | 761.0   | 633.5   | 570.4   | 555.6   | 552.9   | 554.3   |
| 67.5° | 17961.4 | 11268.3 | 1517.9  | 982.4   | 958.3   | 747.6   | 597.2   | 526.1   | 501.9   | 492.6   | 491.2   |
| 70°   | 16108.0 | 9154.5  | 1182.4  | 936.8   | 909.9   | 726.1   | 563.7   | 489.9   | 453.6   | 438.9   | 437.5   |
| 71°   | 15203.4 | 8427.1  | 1120.7  | 914.0   | 873.7   | 704.6   | 548.9   | 473.8   | 436.2   | 420.1   | 417.4   |
| 72.5° | 13784.8 | 7554.7  | 1045.5  | 877.7   | 803.9   | 649.6   | 520.7   | 450.9   | 412.0   | 393.2   | 389.2   |
| 75°   | 9892.7  | 4940.3  | 897.9   | 782.4   | 665.7   | 518.1   | 456.3   | 405.3   | 371.8   | 348.9   | 346.3   |
| 77.5° | 3811.6  | 1966.2  | 679.1   | 650.9   | 510.0   | 405.3   | 375.8   | 350.3   | 326.1   | 303.3   | 302.0   |
| 80°   | 1178.4  | 879.1   | 495.2   | 489.9   | 369.1   | 302.0   | 292.6   | 285.9   | 276.5   | 252.3   | 246.9   |
| 82.5° | 629.4   | 504.6   | 340.9   | 316.7   | 241.6   | 201.3   | 212.1   | 214.7   | 216.1   | 190.6   | 187.9   |
| 85°   | 300.6   | 267.1   | 191.9   | 179.8   | 140.9   | 112.7   | 130.2   | 140.9   | 142.3   | 116.8   | 108.7   |
| 87.5° | 143.6   | 139.6   | 89.9    | 68.4    | 52.3    | 37.6    | 45.6    | 56.4    | 61.7    | 44.3    | 38.9    |
| 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)