

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: P383448

Luminaire Tested: **GAN-SA7C-735-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383448  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7C-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37824.6 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

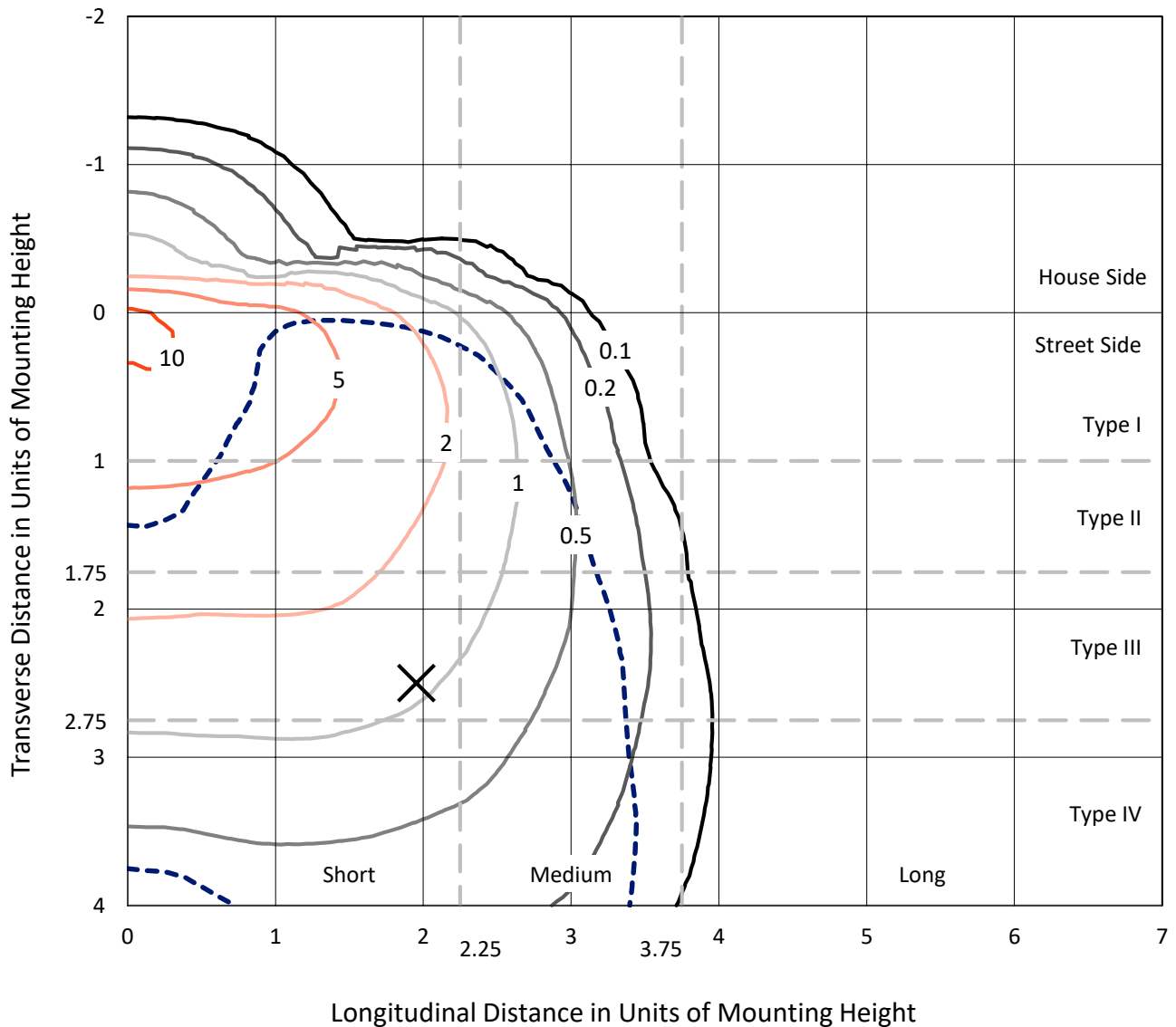
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

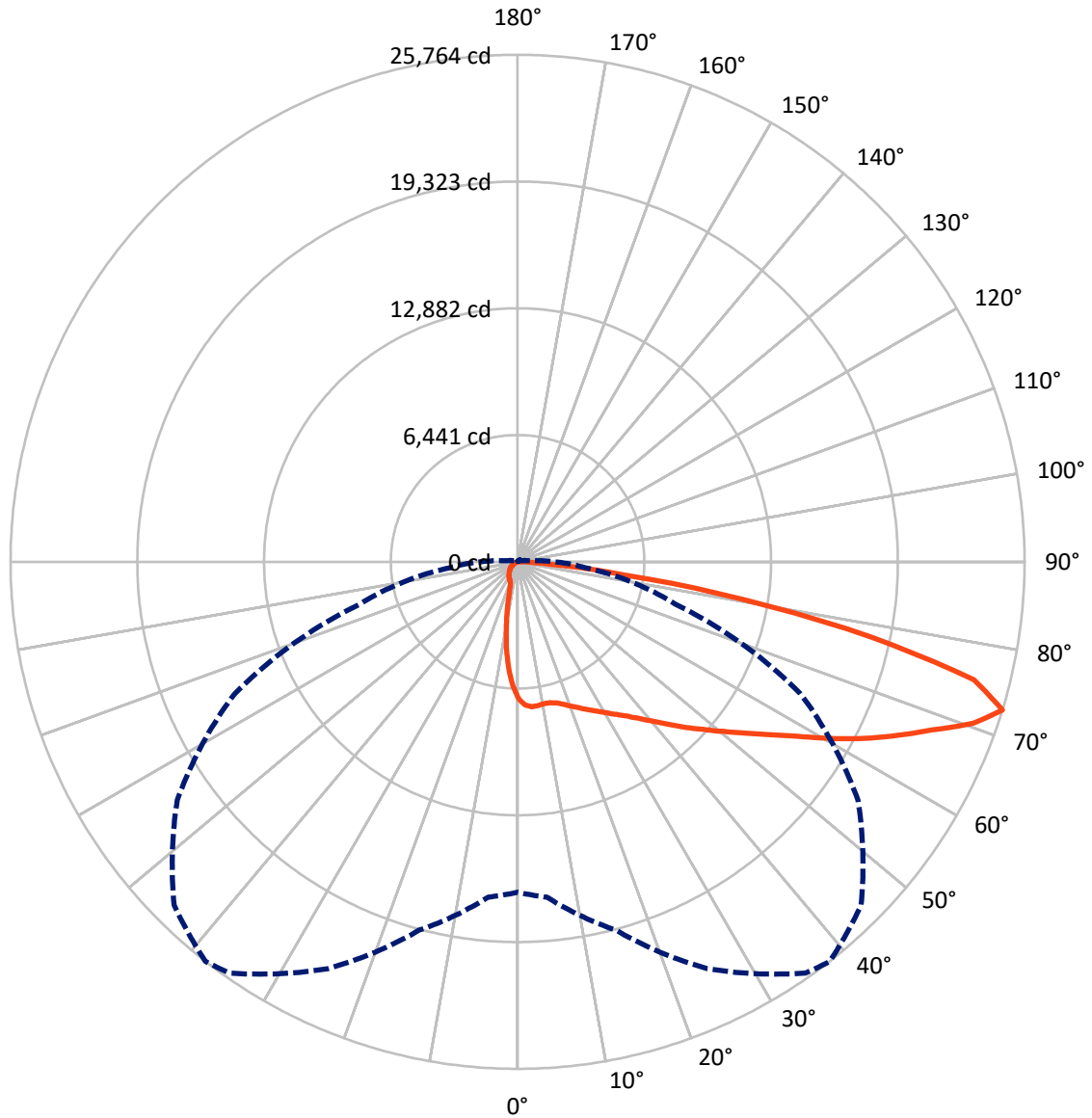
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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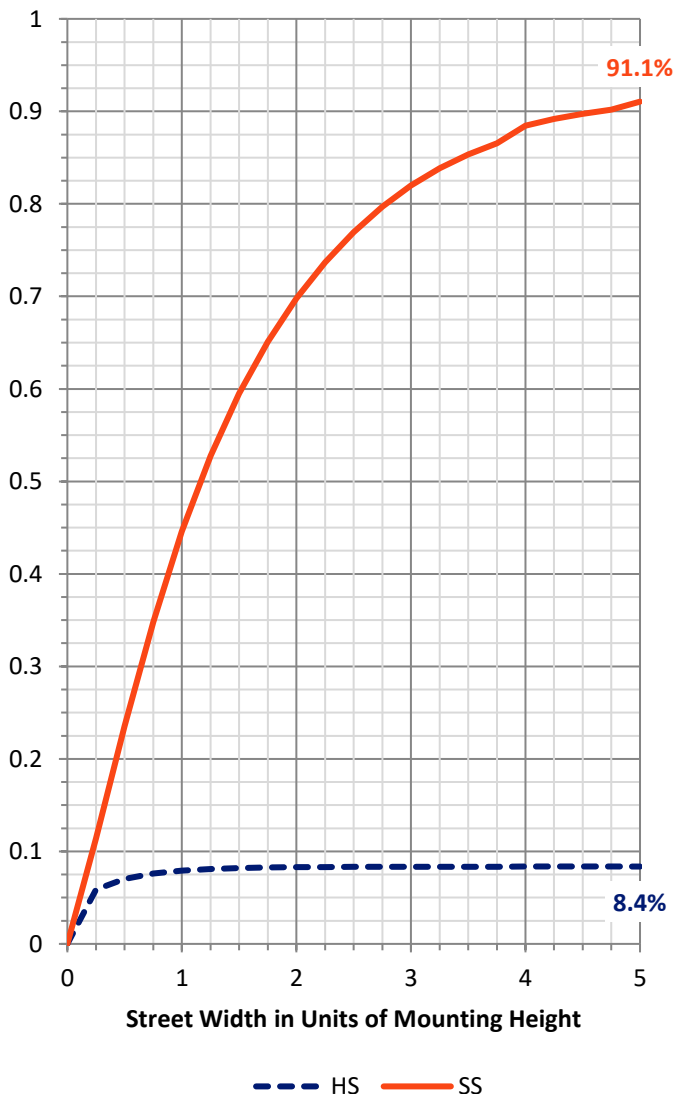
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3183.1   | 0.0    | 3183.1  |
|                    | % Fixture | 8.4      | 0.0    | 8.4     |
| <b>Street Side</b> | Lumens    | 34641.5  | 0.0    | 34641.5 |
|                    | % Fixture | 91.6     | 0.0    | 91.6    |
| <b>Total</b>       | Lumens    | 37824.6  | 0.0    | 37824.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 592.8   | 1.6       |
| 10°-20°   | 1449.5  | 3.8       |
| 20°-30°   | 2305.3  | 6.1       |
| 30°-40°   | 3465.8  | 9.2       |
| 40°-50°   | 5287.3  | 14.0      |
| 50°-60°   | 7472.8  | 19.8      |
| 60°-70°   | 9373.4  | 24.8      |
| 70°-80°   | 7008.7  | 18.5      |
| 80°-90°   | 869.1   | 2.3       |
| 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°    | 37824.6 | 100.0     |
| 0°-180°   | 37824.6 | 100.0     |

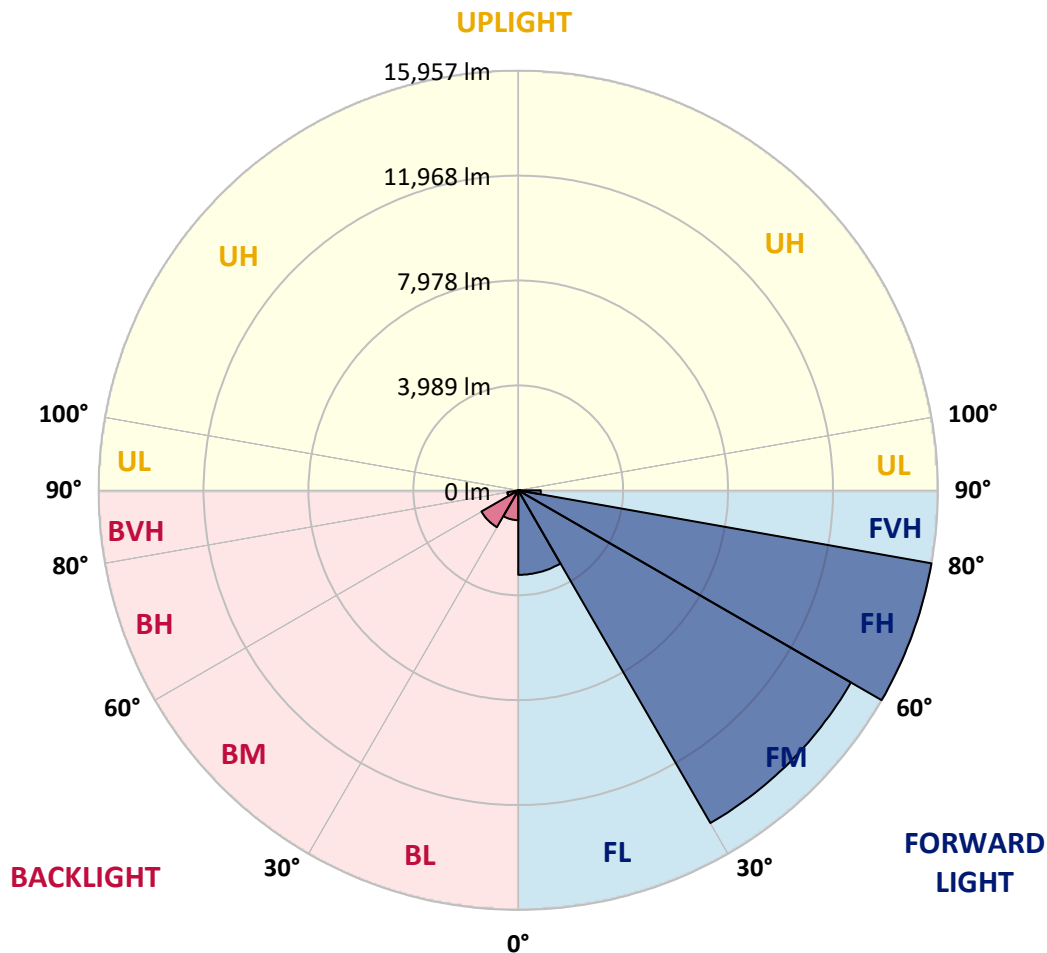


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 3214.2  | 8.5       |                         |      |        |
| FM (30°-60°)   | 14609.5 | 38.6      |                         |      |        |
| FH (60°-80°)   | 15956.8 | 42.2      |                         |      | G5     |
| FVH (80°-90°)  | 860.9   | 2.3       |                         |      | G5     |
| BL (0°-30°)    | 1133.4  | 3.0       | B3/2500                 |      |        |
| BM (30°-60°)   | 1616.4  | 4.3       | B2/2500                 |      |        |
| BH (60°-80°)   | 425.2   | 1.1       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 8.1     | 0.0       |                         |      | G0/10  |
| 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°     | 38°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6955.8  | 6955.8  | 6955.8  | 6955.8  | 6955.8  | 6955.8  | 6955.8  | 6955.8  | 6955.8  | 6955.8  | 6955.8  |
| 2.5°  | 7383.1  | 7384.7  | 7367.4  | 7339.1  | 7303.0  | 7284.1  | 7252.8  | 7202.4  | 7149.1  | 7053.2  | 6949.5  |
| 5°    | 7533.9  | 7533.9  | 7511.9  | 7474.2  | 7416.1  | 7398.8  | 7339.1  | 7259.0  | 7149.1  | 6993.5  | 6819.1  |
| 7.5°  | 7518.1  | 7521.3  | 7491.5  | 7452.2  | 7394.1  | 7378.4  | 7306.1  | 7216.6  | 7079.9  | 6891.4  | 6668.3  |
| 10°   | 7436.5  | 7444.4  | 7420.8  | 7402.0  | 7348.5  | 7331.3  | 7263.7  | 7174.1  | 7037.5  | 6836.4  | 6580.4  |
| 12.5° | 7353.3  | 7361.1  | 7368.9  | 7386.2  | 7353.3  | 7346.9  | 7293.6  | 7218.2  | 7087.8  | 6878.8  | 6589.8  |
| 15°   | 7299.8  | 7315.5  | 7372.1  | 7439.6  | 7447.5  | 7441.2  | 7406.6  | 7335.9  | 7204.0  | 6987.3  | 6657.3  |
| 17.5° | 7299.8  | 7324.9  | 7442.8  | 7571.6  | 7617.2  | 7621.8  | 7592.0  | 7493.1  | 7335.9  | 7103.5  | 6720.2  |
| 20°   | 7361.1  | 7395.6  | 7579.4  | 7761.7  | 7837.1  | 7837.1  | 7779.0  | 7640.7  | 7456.9  | 7208.7  | 6762.6  |
| 22.5° | 7518.1  | 7563.7  | 7794.6  | 8005.2  | 8085.3  | 8067.9  | 7989.4  | 7788.4  | 7582.6  | 7328.1  | 6816.0  |
| 25°   | 7827.6  | 7862.2  | 8102.5  | 8314.6  | 8363.3  | 8324.0  | 8225.1  | 7967.4  | 7742.8  | 7489.9  | 6913.4  |
| 27.5° | 8226.7  | 8231.3  | 8479.6  | 8658.6  | 8628.8  | 8602.1  | 8478.0  | 8192.1  | 7973.8  | 7720.9  | 7081.4  |
| 30°   | 8664.9  | 8664.9  | 8883.2  | 9019.9  | 8928.8  | 8906.8  | 8782.7  | 8463.9  | 8269.1  | 8035.0  | 7320.3  |
| 32.5° | 9089.0  | 9107.9  | 9285.4  | 9371.8  | 9269.7  | 9247.8  | 9126.7  | 8807.9  | 8661.8  | 8514.2  | 7692.5  |
| 35°   | 9499.1  | 9513.2  | 9681.3  | 9728.4  | 9631.0  | 9637.3  | 9550.9  | 9280.7  | 9225.7  | 9206.9  | 8253.3  |
| 37.5° | 9896.5  | 9899.6  | 10070.9 | 10100.7 | 10052.0 | 10105.4 | 10113.3 | 9874.5  | 9976.6  | 10129.0 | 9043.5  |
| 40°   | 10259.3 | 10262.5 | 10432.1 | 10509.2 | 10592.3 | 10661.5 | 10722.8 | 10595.5 | 10933.3 | 11286.7 | 9984.4  |
| 42.5° | 10550.0 | 10582.9 | 10798.1 | 10944.3 | 11164.1 | 11296.1 | 11462.6 | 11456.4 | 12072.1 | 12603.1 | 11121.7 |
| 45°   | 10806.0 | 10862.6 | 11162.6 | 11418.6 | 11795.6 | 12006.2 | 12266.9 | 12471.1 | 13353.9 | 14068.7 | 12273.2 |
| 47.5° | 11143.7 | 11197.2 | 11539.6 | 11959.0 | 12461.7 | 12738.2 | 13170.1 | 13611.6 | 14763.1 | 15507.7 | 13398.0 |
| 50°   | 11619.8 | 11596.2 | 11933.9 | 12535.6 | 13181.2 | 13544.1 | 14159.8 | 14821.2 | 16161.1 | 16761.1 | 14059.3 |
| 52.5° | 12127.1 | 12117.7 | 12367.4 | 13162.3 | 14029.5 | 14453.6 | 15267.3 | 16071.5 | 17497.9 | 17625.2 | 14362.5 |
| 55°   | 12755.5 | 12688.0 | 12898.4 | 13877.1 | 15036.4 | 15491.9 | 16450.1 | 17309.5 | 18562.9 | 18112.2 | 14514.8 |
| 57.5° | 13413.6 | 13302.1 | 13503.2 | 14673.5 | 16172.1 | 16710.9 | 17760.2 | 18515.8 | 19271.4 | 18445.1 | 14513.2 |
| 60°   | 14093.8 | 13961.8 | 14200.7 | 15669.5 | 17582.8 | 18206.4 | 19180.3 | 19331.1 | 19932.8 | 18613.3 | 14406.5 |
| 62.5° | 14662.5 | 14583.9 | 14938.9 | 16734.5 | 19158.3 | 19771.0 | 20253.2 | 20072.6 | 20490.4 | 18743.6 | 14156.6 |
| 65°   | 15264.2 | 15268.8 | 15842.2 | 17977.0 | 20832.9 | 21246.0 | 21286.9 | 21034.0 | 20956.9 | 18716.9 | 13311.5 |
| 67.5° | 16077.9 | 16153.2 | 17109.9 | 19664.1 | 22461.8 | 22780.7 | 22777.6 | 22075.4 | 21297.9 | 17655.0 | 11437.5 |
| 70°   | 16938.7 | 17116.2 | 18570.9 | 21594.8 | 24240.1 | 24563.7 | 24397.1 | 22738.3 | 20053.7 | 14276.1 | 8094.7  |
| 72.5° | 16794.1 | 17102.1 | 19383.0 | 22812.2 | 25517.2 | 25763.8 | 24681.5 | 21109.3 | 15850.1 | 8297.3  | 3446.4  |
| 75°   | 12956.5 | 13313.1 | 17772.8 | 21605.8 | 24177.3 | 23955.8 | 21206.8 | 16426.6 | 8661.8  | 2315.5  | 776.0   |
| 77.5° | 6844.3  | 7034.4  | 11740.7 | 16459.6 | 18852.0 | 18388.6 | 14938.9 | 9112.6  | 2640.7  | 573.4   | 348.8   |
| 80°   | 3584.7  | 3628.8  | 5116.3  | 9338.9  | 11635.4 | 11638.6 | 8853.4  | 4002.6  | 1088.6  | 293.7   | 234.1   |
| 82.5° | 1919.6  | 1957.3  | 2703.4  | 4315.2  | 6096.5  | 5526.3  | 3389.9  | 2202.4  | 633.1   | 166.5   | 224.6   |
| 85°   | 461.9   | 469.7   | 1533.1  | 1971.4  | 2397.2  | 1712.3  | 1006.9  | 1848.9  | 171.2   | 97.4    | 182.2   |
| 87.5° | 177.6   | 180.6   | 568.6   | 853.0   | 611.1   | 395.8   | 471.3   | 689.6   | 22.0    | 37.7    | 28.3    |
| 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°    | 6955.8  | 6955.8 | 6955.8 | 6955.8 | 6955.8 | 6955.8 | 6955.8 | 6955.8 | 6955.8 | 6955.8 | 6955.8 |
| 2.5°  | 6886.7  | 6845.9 | 6745.3 | 6618.1 | 6505.0 | 6423.3 | 6300.8 | 6220.7 | 6167.2 | 6165.6 | 6145.2 |
| 5°    | 6712.4  | 6629.1 | 6412.3 | 6154.6 | 5920.6 | 5710.1 | 5461.9 | 5265.6 | 5119.5 | 5095.9 | 5045.6 |
| 7.5°  | 6525.4  | 6388.7 | 6055.7 | 5653.6 | 5260.8 | 4861.8 | 4398.4 | 4111.0 | 3864.3 | 3746.5 | 3733.9 |
| 10°   | 6410.7  | 6219.1 | 5746.3 | 5165.1 | 4549.2 | 3900.5 | 3294.1 | 2874.7 | 2571.5 | 2485.1 | 2420.7 |
| 12.5° | 6387.2  | 6134.2 | 5507.5 | 4706.4 | 3826.6 | 2968.9 | 2298.2 | 1852.0 | 1610.2 | 1533.1 | 1512.7 |
| 15°   | 6410.7  | 6094.9 | 5306.4 | 4252.3 | 3094.6 | 2106.5 | 1542.5 | 1283.4 | 1192.3 | 1170.3 | 1168.7 |
| 17.5° | 6424.9  | 6047.9 | 5078.6 | 3748.1 | 2384.6 | 1504.9 | 1181.3 | 1105.9 | 1091.8 | 1090.2 | 1093.4 |
| 20°   | 6423.3  | 5975.6 | 4806.9 | 3185.7 | 1773.5 | 1182.9 | 1068.2 | 1052.5 | 1049.3 | 1050.9 | 1049.3 |
| 22.5° | 6412.3  | 5890.7 | 4508.4 | 2606.1 | 1339.9 | 1057.2 | 1019.5 | 1010.1 | 1008.5 | 1008.5 | 1008.5 |
| 25°   | 6432.7  | 5823.2 | 4180.0 | 2051.5 | 1104.3 | 999.1  | 975.5  | 967.7  | 966.1  | 966.1  | 962.9  |
| 27.5° | 6506.6  | 5785.5 | 3820.4 | 1578.7 | 997.5  | 947.2  | 928.4  | 926.8  | 922.1  | 920.6  | 923.6  |
| 30°   | 6625.9  | 5785.5 | 3426.0 | 1228.4 | 933.1  | 893.8  | 879.7  | 876.6  | 875.0  | 873.4  | 875.0  |
| 32.5° | 6836.4  | 5829.5 | 2995.7 | 1021.1 | 871.8  | 834.1  | 824.7  | 829.4  | 824.7  | 824.7  | 824.7  |
| 35°   | 7216.6  | 5961.4 | 2544.8 | 890.7  | 807.5  | 776.0  | 766.6  | 772.9  | 769.7  | 769.7  | 768.2  |
| 37.5° | 7771.1  | 6206.5 | 2090.9 | 812.1  | 750.9  | 717.9  | 705.3  | 714.8  | 711.6  | 711.6  | 710.0  |
| 40°   | 8446.5  | 6563.1 | 1658.8 | 752.4  | 695.9  | 661.3  | 650.3  | 655.1  | 647.2  | 647.2  | 650.3  |
| 42.5° | 9280.7  | 7015.5 | 1281.8 | 694.3  | 640.9  | 607.9  | 601.7  | 596.9  | 582.8  | 575.0  | 576.5  |
| 45°   | 10207.5 | 7486.8 | 999.1  | 637.7  | 589.1  | 562.4  | 553.0  | 540.4  | 516.8  | 501.1  | 502.7  |
| 47.5° | 11035.4 | 7849.6 | 812.1  | 582.8  | 542.0  | 521.6  | 507.4  | 483.8  | 449.3  | 430.4  | 432.0  |
| 50°   | 11470.5 | 7904.6 | 691.2  | 527.8  | 498.0  | 477.5  | 457.1  | 421.0  | 380.2  | 359.8  | 358.2  |
| 52.5° | 11582.0 | 7647.0 | 601.7  | 477.5  | 453.9  | 430.4  | 403.7  | 355.0  | 309.5  | 287.5  | 284.3  |
| 55°   | 11622.8 | 7254.2 | 521.6  | 430.4  | 406.9  | 380.2  | 345.6  | 290.6  | 248.2  | 226.2  | 224.6  |
| 57.5° | 11487.8 | 6668.3 | 458.7  | 388.0  | 359.8  | 326.8  | 284.3  | 232.5  | 191.6  | 174.4  | 174.4  |
| 60°   | 11187.7 | 5875.1 | 410.0  | 342.4  | 311.0  | 273.3  | 229.3  | 180.6  | 143.0  | 128.8  | 128.8  |
| 62.5° | 10589.3 | 4847.7 | 364.4  | 295.3  | 265.5  | 226.2  | 185.4  | 136.7  | 100.5  | 92.7   | 94.3   |
| 65°   | 9459.8  | 3677.4 | 318.9  | 252.9  | 226.2  | 187.0  | 144.5  | 97.4   | 67.5   | 67.5   | 70.7   |
| 67.5° | 7714.5  | 2554.2 | 271.7  | 215.2  | 194.8  | 152.4  | 109.9  | 67.5   | 47.1   | 53.4   | 59.7   |
| 70°   | 5106.9  | 1432.6 | 232.5  | 177.6  | 166.5  | 120.9  | 81.7   | 45.6   | 37.7   | 50.3   | 61.3   |
| 72.5° | 1927.5  | 557.6  | 194.8  | 143.0  | 144.5  | 92.7   | 58.1   | 34.6   | 34.6   | 55.0   | 72.3   |
| 75°   | 537.2   | 273.3  | 139.8  | 105.3  | 113.1  | 67.5   | 42.4   | 29.8   | 33.0   | 62.9   | 84.9   |
| 77.5° | 315.7   | 201.0  | 91.1   | 61.3   | 76.9   | 47.1   | 28.3   | 23.6   | 28.3   | 53.4   | 81.7   |
| 80°   | 254.5   | 106.8  | 53.4   | 31.4   | 42.4   | 26.7   | 18.8   | 14.2   | 7.8    | 20.4   | 42.4   |
| 82.5° | 254.5   | 64.4   | 25.2   | 22.0   | 22.0   | 14.2   | 9.4    | 6.2    | 1.6    | 0.0    | 11.0   |
| 85°   | 171.2   | 26.7   | 15.7   | 14.2   | 11.0   | 4.8    | 3.2    | 1.6    | 0.0    | 0.0    | 0.0    |
| 87.5° | 28.3    | 11.0   | 6.2    | 3.2    | 1.6    | 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)