

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: P319451

Luminaire Tested: **GAN-SA7C-760-U-SL2**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P319451  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7C-760-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 49010 lumens  
Efficiency: N/A  
Efficacy: 125.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

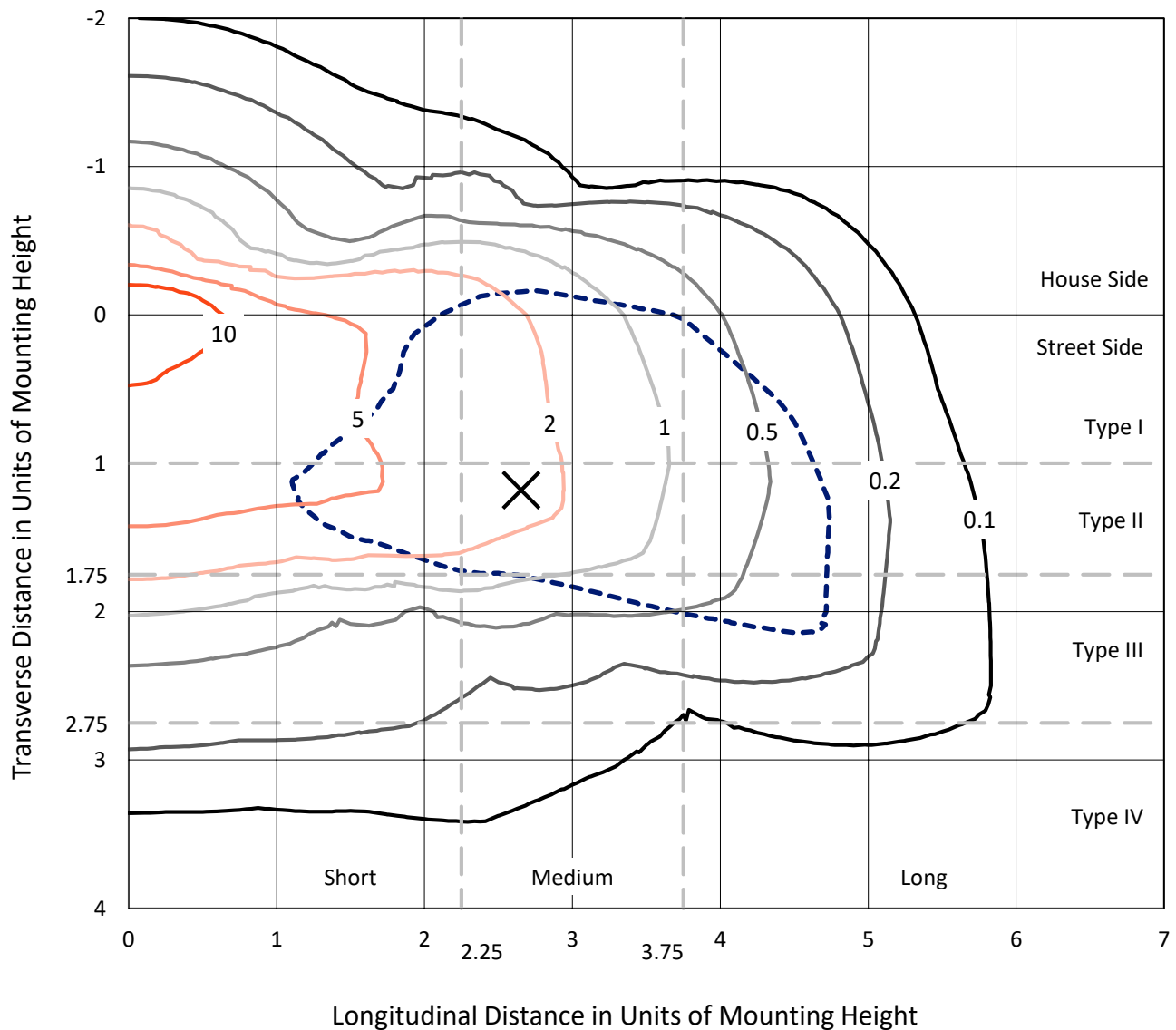
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

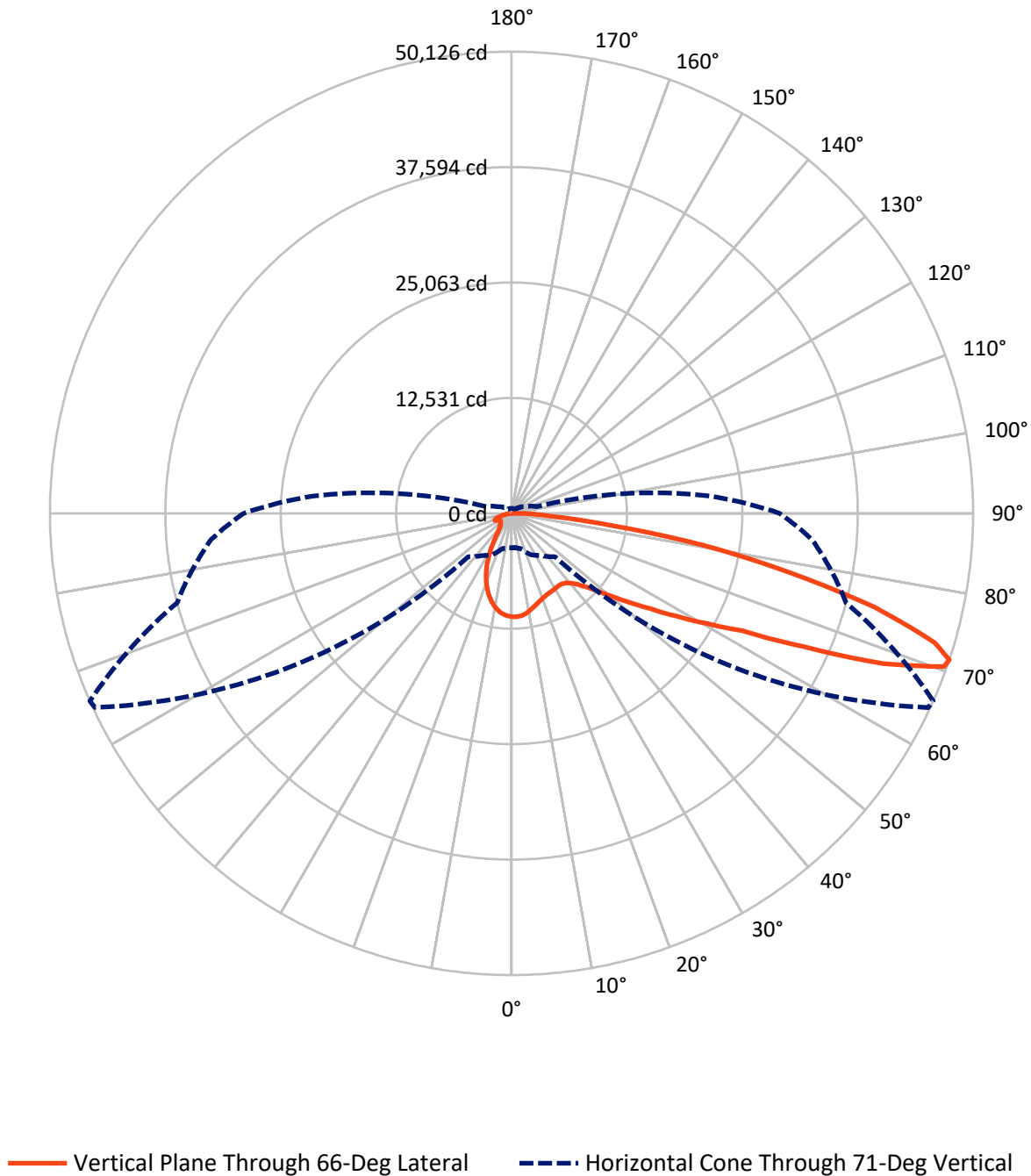
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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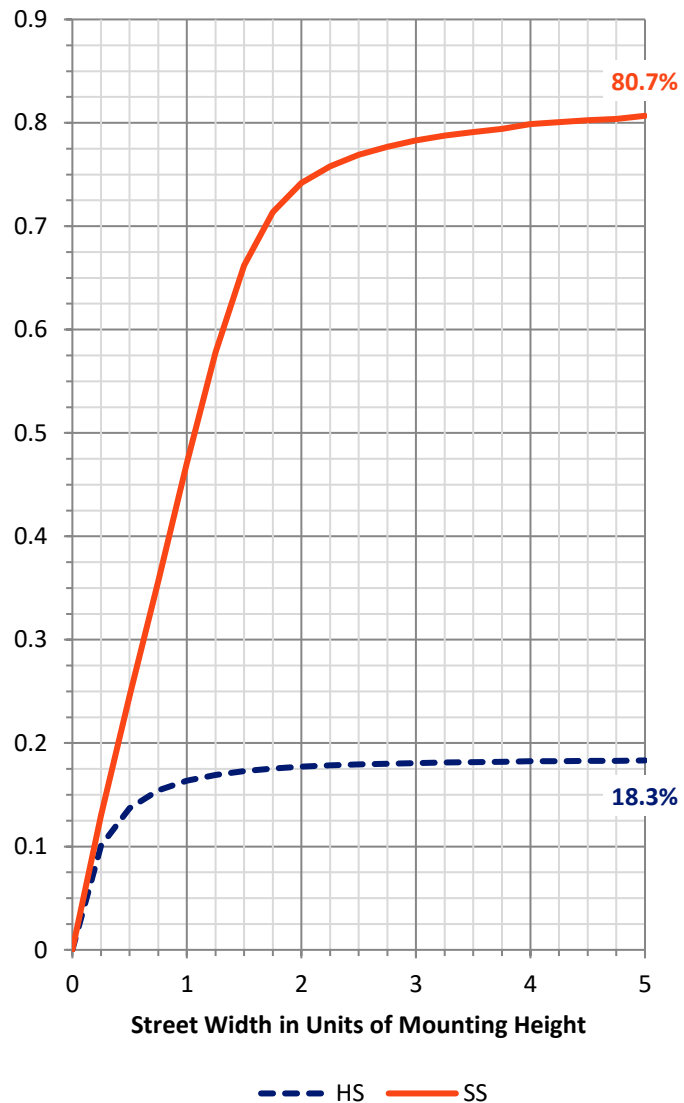
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9082.9   | 0.0    | 9082.9  |
|                    | % Fixture | 18.5     | 0.0    | 18.5    |
| <b>Street Side</b> | Lumens    | 39927.1  | 0.0    | 39927.1 |
|                    | % Fixture | 81.5     | 0.0    | 81.5    |
| <b>Total</b>       | Lumens    | 49010.0  | 0.0    | 49010.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 988.3   | 2.0       |
| 10°-20°   | 2370.3  | 4.8       |
| 20°-30°   | 3183.9  | 6.5       |
| 30°-40°   | 4188.4  | 8.5       |
| 40°-50°   | 6093.0  | 12.4      |
| 50°-60°   | 9517.8  | 19.4      |
| 60°-70°   | 11922.6 | 24.3      |
| 70°-80°   | 9094.3  | 18.6      |
| 80°-90°   | 1651.4  | 3.4       |
| 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°    | 49010.0 | 100.0     |
| 0°-180°   | 49010.0 | 100.0     |

**Coefficient of Utilization**



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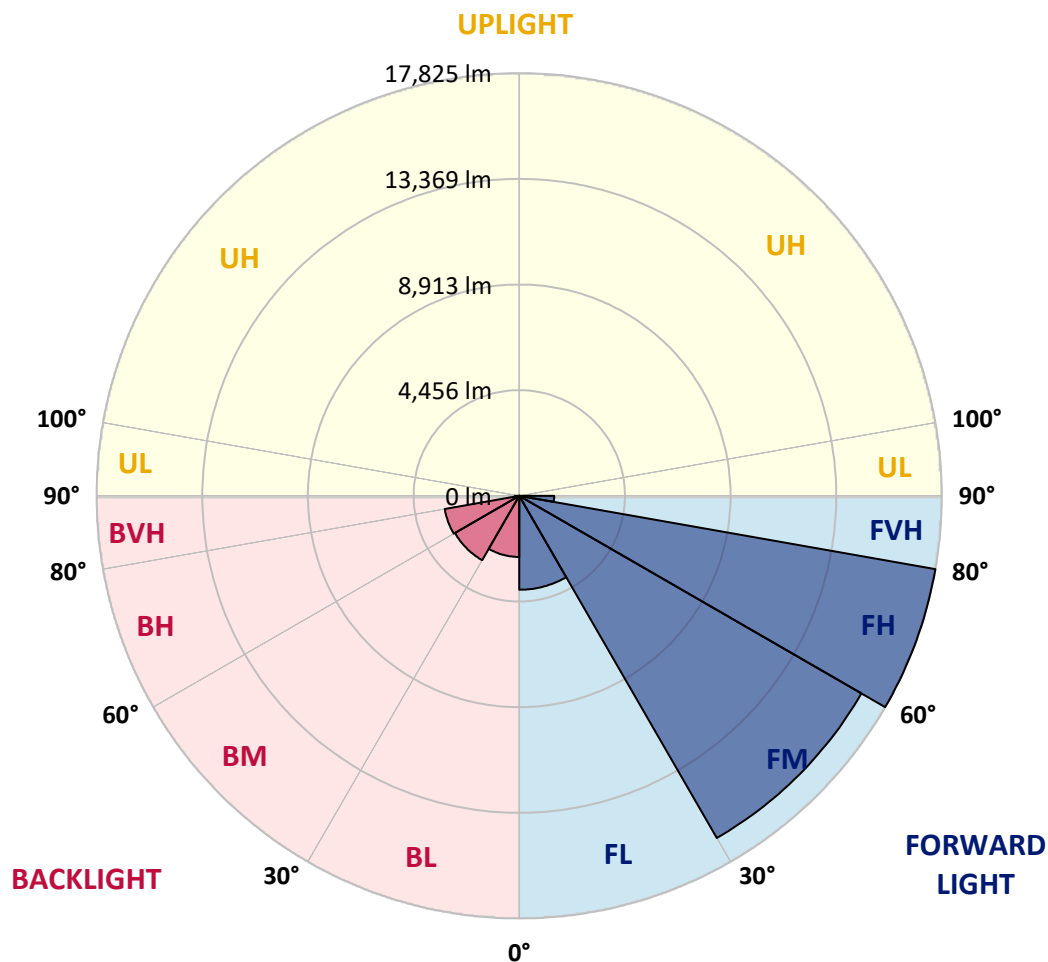
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3963.1  | 8.1       |                         |      |         |
| FM   | (30°-60°)   | 16665.9 | 34.0      |                         |      |         |
| FH   | (60°-80°)   | 17825.4 | 36.4      |                         |      | G5      |
| FVH  | (80°-90°)   | 1472.7  | 3.0       |                         |      | G5      |
| BL   | (0°-30°)    | 2579.3  | 5.3       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 3133.3  | 6.4       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 3191.5  | 6.5       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 178.8   | 0.4       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11227.2 | 11227.2 | 11227.2 | 11227.2 | 11227.2 | 11227.2 | 11227.2 | 11227.2 | 11227.2 | 11227.2 | 11227.2 |
| 2.5°  | 11019.1 | 11002.2 | 11053.0 | 11105.4 | 11125.7 | 11159.6 | 11210.3 | 11239.1 | 11237.4 | 11242.5 | 11225.6 |
| 5°    | 10288.1 | 10266.1 | 10367.6 | 10450.6 | 10609.6 | 10789.0 | 11007.3 | 11162.9 | 11166.3 | 11254.3 | 11278.0 |
| 7.5°  | 9596.0  | 9580.8  | 9697.6  | 9831.2  | 10015.7 | 10289.8 | 10643.5 | 10978.5 | 10998.8 | 11237.4 | 11320.3 |
| 10°   | 9041.0  | 9037.6  | 9151.0  | 9296.5  | 9511.4  | 9817.7  | 10223.8 | 10714.5 | 10745.0 | 11156.2 | 11327.1 |
| 12.5° | 8607.8  | 8614.6  | 8712.7  | 8878.6  | 9105.3  | 9425.1  | 9865.1  | 10418.4 | 10467.5 | 11027.6 | 11288.2 |
| 15°   | 8288.0  | 8315.1  | 8394.6  | 8562.1  | 8785.5  | 9110.4  | 9562.2  | 10144.3 | 10218.7 | 10883.7 | 11266.2 |
| 17.5° | 8105.3  | 8135.7  | 8191.6  | 8330.3  | 8540.1  | 8853.2  | 9281.3  | 9919.2  | 9986.9  | 10773.8 | 11267.9 |
| 20°   | 8051.1  | 8076.5  | 8108.7  | 8193.3  | 8370.9  | 8655.2  | 9059.6  | 9716.2  | 9788.9  | 10685.8 | 11284.8 |
| 22.5° | 8157.7  | 8176.3  | 8179.7  | 8173.0  | 8281.3  | 8513.1  | 8898.9  | 9567.3  | 9645.1  | 10628.2 | 11296.6 |
| 25°   | 8386.2  | 8411.5  | 8392.9  | 8330.3  | 8294.8  | 8436.9  | 8816.0  | 9469.1  | 9547.0  | 10585.9 | 11272.9 |
| 27.5° | 8729.7  | 8733.1  | 8717.8  | 8636.6  | 8469.1  | 8445.4  | 8790.6  | 9411.6  | 9486.0  | 10536.9 | 11223.9 |
| 30°   | 9196.7  | 9218.7  | 9191.6  | 9081.6  | 8807.5  | 8580.8  | 8821.0  | 9355.8  | 9423.4  | 10474.2 | 11144.3 |
| 32.5° | 9743.2  | 9797.4  | 9795.7  | 9680.6  | 9288.1  | 8883.7  | 8946.3  | 9321.9  | 9374.4  | 10408.3 | 11047.9 |
| 35°   | 10310.1 | 10384.6 | 10523.3 | 10474.2 | 9988.6  | 9362.5  | 9186.5  | 9376.1  | 9411.6  | 10399.8 | 10980.2 |
| 37.5° | 10899.0 | 10973.4 | 11259.4 | 11391.4 | 10822.8 | 10047.8 | 9565.6  | 9567.3  | 9584.2  | 10503.0 | 10975.1 |
| 40°   | 11514.9 | 11594.4 | 12024.2 | 12367.7 | 11904.1 | 10915.9 | 10176.4 | 9966.6  | 9948.0  | 10756.8 | 11075.0 |
| 42.5° | 12377.9 | 12449.0 | 12965.1 | 13403.3 | 13103.8 | 12027.6 | 11020.8 | 10582.5 | 10543.6 | 11254.3 | 11394.8 |
| 45°   | 13469.3 | 13530.2 | 14078.5 | 14547.2 | 14393.2 | 13296.7 | 12081.8 | 11430.3 | 11423.5 | 12083.5 | 12042.8 |
| 47.5° | 14767.2 | 14814.5 | 15307.0 | 15760.4 | 15816.3 | 14757.0 | 13415.2 | 12738.3 | 12628.3 | 13220.6 | 13046.3 |
| 50°   | 16119.2 | 16171.6 | 16506.7 | 16994.0 | 17408.6 | 16711.4 | 15131.0 | 14340.8 | 14193.5 | 14721.5 | 14467.7 |
| 52.5° | 17014.3 | 17083.7 | 17374.7 | 17992.4 | 19198.8 | 18853.6 | 17159.8 | 16283.3 | 16059.9 | 16540.5 | 16345.9 |
| 55°   | 16615.0 | 16770.6 | 17215.7 | 18205.6 | 20630.4 | 22126.2 | 19662.5 | 18549.1 | 18296.9 | 18696.3 | 18581.2 |
| 57.5° | 14799.3 | 15012.5 | 15620.0 | 17148.0 | 20831.7 | 25009.6 | 23446.1 | 21217.5 | 21039.9 | 20924.8 | 20977.3 |
| 60°   | 11481.1 | 11685.8 | 12438.8 | 14430.4 | 19429.0 | 27114.6 | 29140.1 | 24507.0 | 24249.8 | 23161.8 | 23209.2 |
| 62.5° | 8125.6  | 8022.4  | 8538.5  | 9995.4  | 15787.5 | 27361.6 | 35619.2 | 28906.6 | 28060.5 | 25524.0 | 25315.9 |
| 65°   | 6196.6  | 6172.9  | 6404.7  | 6868.3  | 9562.2  | 24405.5 | 39478.9 | 36301.1 | 34979.6 | 28302.5 | 27811.7 |
| 67.5° | 5091.6  | 5049.3  | 5277.7  | 5952.9  | 6157.6  | 15745.2 | 39563.5 | 44880.2 | 43582.3 | 31761.2 | 30698.5 |
| 70°   | 4186.3  | 4138.9  | 4352.1  | 5223.6  | 5690.6  | 7985.1  | 33297.6 | 49904.1 | 49834.7 | 36140.4 | 32878.0 |
| 71°   | 3753.1  | 3719.3  | 3974.8  | 4942.7  | 5590.8  | 6655.1  | 28749.2 | 49917.7 | 50125.8 | 37622.7 | 32749.4 |
| 72.5° | 3056.0  | 3067.8  | 3338.6  | 4399.5  | 5516.3  | 5876.7  | 21129.6 | 47591.0 | 48030.9 | 39035.6 | 31580.1 |
| 75°   | 2030.5  | 2040.7  | 2396.0  | 3384.2  | 5348.8  | 5749.8  | 11613.0 | 39934.1 | 40743.0 | 38189.5 | 28816.9 |
| 77.5° | 1363.9  | 1360.5  | 1602.4  | 2321.6  | 4660.1  | 5749.8  | 6809.1  | 29867.7 | 30756.0 | 30387.2 | 22215.9 |
| 80°   | 939.1   | 932.4   | 1103.3  | 1602.4  | 3528.1  | 5819.2  | 5264.2  | 20931.6 | 21200.6 | 16410.2 | 9029.2  |
| 82.5° | 575.3   | 580.4   | 720.8   | 1132.0  | 2401.1  | 5237.1  | 4969.8  | 11413.4 | 11120.6 | 4602.6  | 2255.6  |
| 85°   | 330.0   | 328.3   | 460.3   | 766.5   | 1541.5  | 4419.8  | 4846.2  | 4912.2  | 4506.1  | 1385.8  | 815.6   |
| 87.5° | 118.4   | 126.9   | 247.1   | 424.7   | 883.3   | 3078.0  | 4111.9  | 2555.1  | 2303.0  | 626.1   | 368.9   |
| 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):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11227.2 | 11227.2 | 11227.2 | 11227.2 | 11227.2 | 11227.2 | 11227.2 | 11227.2 | 11227.2 | 11227.2 | 11227.2 |
| 2.5°  | 11213.7 | 11223.9 | 11212.0 | 11144.3 | 11086.8 | 10993.7 | 10941.3 | 10868.5 | 10846.5 | 10836.4 | 10863.4 |
| 5°    | 11256.0 | 11259.4 | 11159.6 | 10981.9 | 10782.2 | 10547.0 | 10377.8 | 10169.7 | 10071.5 | 10029.2 | 10056.3 |
| 7.5°  | 11294.9 | 11279.7 | 11061.4 | 10721.3 | 10352.4 | 9942.9  | 9579.1  | 9245.8  | 9051.2  | 8971.6  | 8978.4  |
| 10°   | 11300.0 | 11235.7 | 10885.4 | 10359.2 | 9787.2  | 9186.5  | 8628.1  | 8113.7  | 7788.8  | 7577.3  | 7641.6  |
| 12.5° | 11247.5 | 11139.3 | 10626.5 | 9890.5  | 9096.9  | 8277.9  | 7523.2  | 6751.6  | 6287.9  | 6073.0  | 6079.8  |
| 15°   | 11206.9 | 11010.7 | 10308.4 | 9338.8  | 8272.8  | 7188.1  | 6157.6  | 5250.7  | 4756.6  | 4536.6  | 4433.4  |
| 17.5° | 11173.1 | 10871.9 | 9939.5  | 8717.8  | 7299.8  | 5924.1  | 4685.5  | 3876.7  | 3605.9  | 3541.6  | 3514.5  |
| 20°   | 11125.7 | 10724.7 | 9528.3  | 7998.7  | 6191.5  | 4509.5  | 3421.5  | 3022.1  | 3023.8  | 3098.3  | 3108.4  |
| 22.5° | 11059.7 | 10557.2 | 9090.1  | 7191.5  | 5001.9  | 3284.4  | 2682.0  | 2567.0  | 2683.7  | 2825.8  | 2851.2  |
| 25°   | 10961.6 | 10359.2 | 8602.8  | 6299.8  | 3814.0  | 2524.6  | 2291.1  | 2286.1  | 2428.2  | 2577.1  | 2599.1  |
| 27.5° | 10822.8 | 10100.3 | 8061.3  | 5342.0  | 2810.6  | 2145.6  | 2052.5  | 2088.1  | 2193.0  | 2301.3  | 2309.7  |
| 30°   | 10636.7 | 9799.1  | 7464.0  | 4331.8  | 2203.1  | 1910.4  | 1900.3  | 1932.4  | 1996.7  | 2072.9  | 2079.6  |
| 32.5° | 10431.9 | 9492.8  | 6826.0  | 3353.8  | 1886.7  | 1783.5  | 1793.7  | 1808.9  | 1839.3  | 1869.8  | 1876.6  |
| 35°   | 10245.8 | 9179.8  | 6172.9  | 2548.3  | 1736.1  | 1700.6  | 1693.8  | 1690.4  | 1693.8  | 1683.7  | 1685.4  |
| 37.5° | 10125.7 | 8920.9  | 5492.6  | 2028.9  | 1649.8  | 1627.8  | 1607.5  | 1582.1  | 1553.4  | 1536.4  | 1539.8  |
| 40°   | 10081.7 | 8728.0  | 4803.9  | 1753.0  | 1578.8  | 1563.5  | 1524.6  | 1470.5  | 1436.6  | 1426.5  | 1426.5  |
| 42.5° | 10200.1 | 8628.1  | 4138.9  | 1614.3  | 1519.5  | 1494.1  | 1429.8  | 1367.2  | 1341.9  | 1340.2  | 1338.5  |
| 45°   | 10562.2 | 8668.8  | 3506.1  | 1538.1  | 1465.4  | 1416.3  | 1331.7  | 1279.2  | 1262.3  | 1265.7  | 1264.0  |
| 47.5° | 11212.0 | 8924.3  | 2964.6  | 1487.4  | 1411.2  | 1346.9  | 1252.2  | 1209.9  | 1189.6  | 1189.6  | 1191.3  |
| 50°   | 12317.0 | 9521.6  | 2533.1  | 1445.1  | 1365.5  | 1282.6  | 1194.6  | 1142.2  | 1115.1  | 1113.4  | 1113.4  |
| 52.5° | 13926.2 | 10591.0 | 2264.1  | 1409.5  | 1314.8  | 1225.1  | 1137.1  | 1071.1  | 1039.0  | 1032.2  | 1028.8  |
| 55°   | 15943.2 | 12124.1 | 2189.6  | 1385.8  | 1247.1  | 1162.5  | 1067.7  | 1001.7  | 966.2   | 951.0   | 949.3   |
| 57.5° | 18198.8 | 13988.8 | 2336.8  | 1357.1  | 1177.7  | 1088.0  | 991.6   | 929.0   | 891.7   | 873.1   | 871.4   |
| 60°   | 20481.5 | 16024.4 | 2937.5  | 1316.5  | 1120.2  | 1006.8  | 913.7   | 856.2   | 819.0   | 798.7   | 795.3   |
| 62.5° | 22767.5 | 18170.0 | 4164.3  | 1313.1  | 1079.6  | 929.0   | 834.2   | 785.1   | 749.6   | 727.6   | 722.5   |
| 65°   | 25346.3 | 20518.7 | 5558.6  | 1402.8  | 1066.0  | 857.9   | 753.0   | 714.1   | 683.6   | 663.3   | 661.6   |
| 67.5° | 28307.5 | 23170.3 | 5424.9  | 1587.2  | 1111.7  | 793.6   | 676.8   | 646.4   | 624.4   | 607.5   | 605.8   |
| 70°   | 29696.8 | 22755.7 | 3372.4  | 1717.5  | 1176.0  | 731.0   | 604.1   | 582.1   | 565.2   | 553.3   | 548.2   |
| 71°   | 29114.7 | 21606.7 | 2827.5  | 1702.3  | 1169.3  | 703.9   | 575.3   | 558.4   | 541.5   | 531.3   | 526.3   |
| 72.5° | 27527.5 | 19704.8 | 2358.8  | 1583.8  | 1093.1  | 654.9   | 538.1   | 521.2   | 505.9   | 494.1   | 490.7   |
| 75°   | 24701.6 | 17598.1 | 1888.4  | 1265.7  | 871.4   | 553.3   | 472.1   | 453.5   | 441.6   | 434.9   | 428.1   |
| 77.5° | 18158.2 | 12558.9 | 1460.3  | 1000.0  | 641.3   | 451.8   | 402.7   | 389.2   | 377.3   | 367.2   | 362.1   |
| 80°   | 6956.3  | 4864.9  | 983.1   | 746.2   | 470.4   | 357.0   | 324.9   | 318.1   | 306.3   | 299.5   | 299.5   |
| 82.5° | 1873.2  | 1453.5  | 524.6   | 451.8   | 314.7   | 260.6   | 248.7   | 245.4   | 235.2   | 221.7   | 223.4   |
| 85°   | 758.1   | 641.3   | 294.4   | 248.7   | 192.9   | 154.0   | 167.5   | 169.2   | 157.4   | 140.4   | 142.1   |
| 87.5° | 333.3   | 272.4   | 164.1   | 110.0   | 84.6    | 59.2    | 76.1    | 76.1    | 69.4    | 57.5    | 52.5    |
| 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)