

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: P324351

Luminaire Tested: **GAN-SA7A-722-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324351  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7A-722-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17964 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

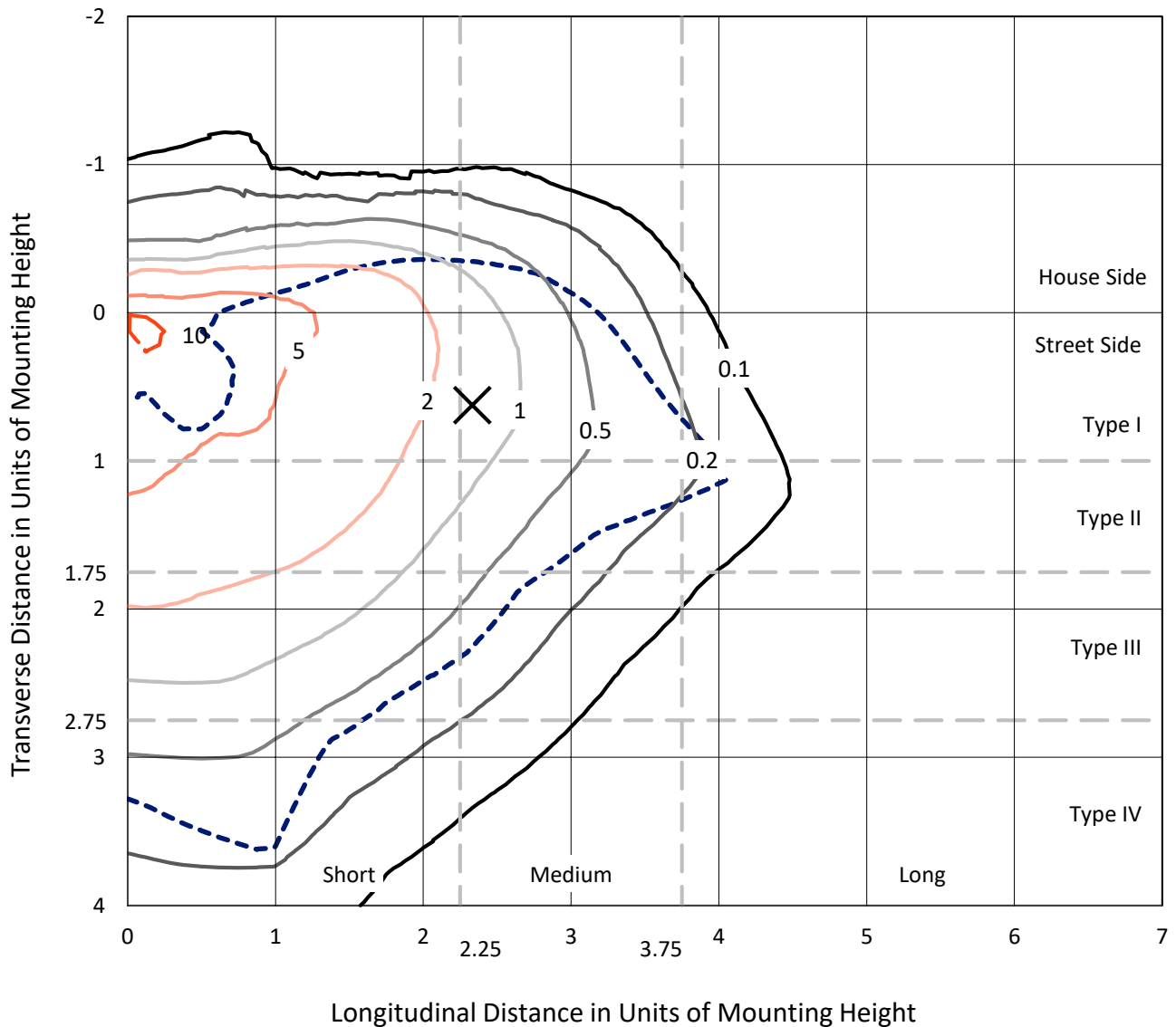
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

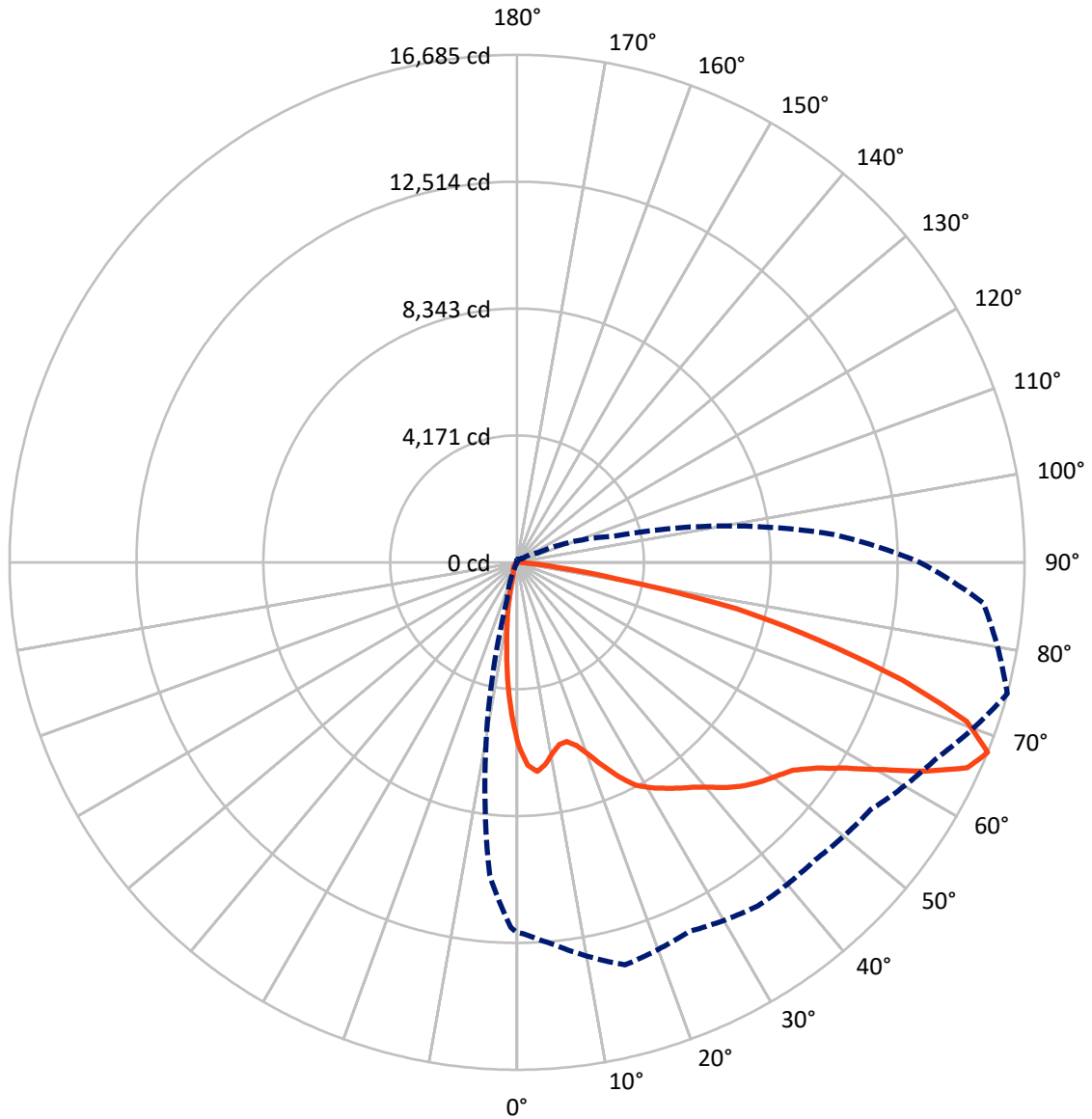
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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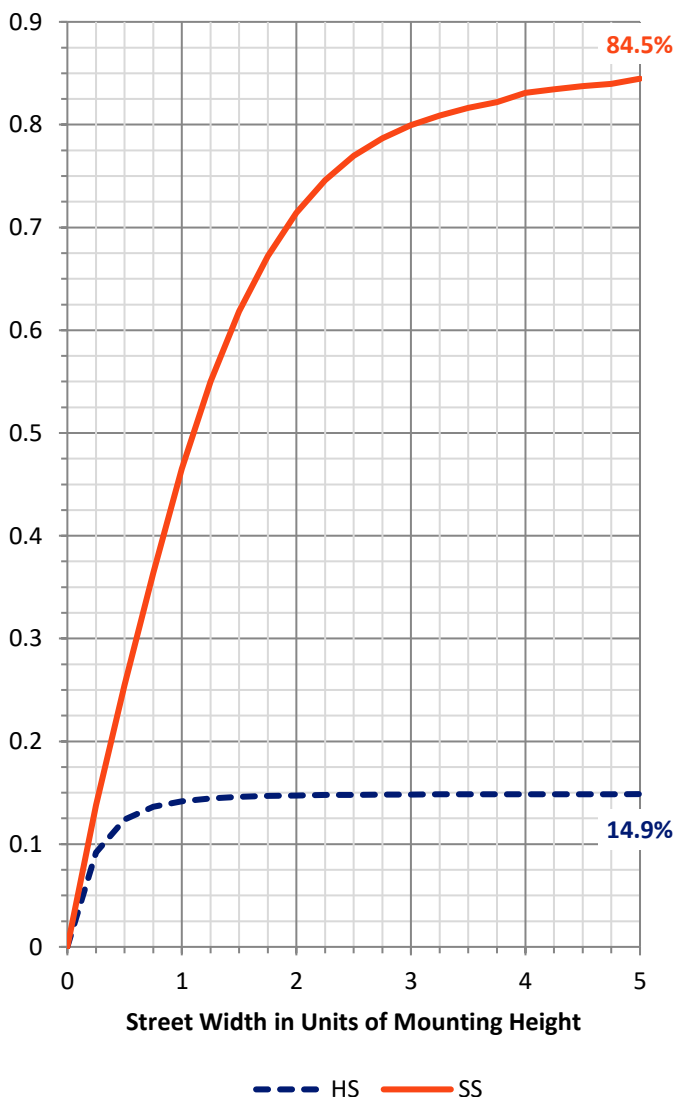
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2695.7   | 0.0    | 2695.7  |
|                    | % Fixture | 15.0     | 0.0    | 15.0    |
| <b>Street Side</b> | Lumens    | 15268.3  | 0.0    | 15268.3 |
|                    | % Fixture | 85.0     | 0.0    | 85.0    |
| <b>Total</b>       | Lumens    | 17964.0  | 0.0    | 17964.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 457.1   | 2.5       |
| 10°-20°   | 900.1   | 5.0       |
| 20°-30°   | 1273.4  | 7.1       |
| 30°-40°   | 1872.3  | 10.4      |
| 40°-50°   | 2691.1  | 15.0      |
| 50°-60°   | 3788.4  | 21.1      |
| 60°-70°   | 4424.5  | 24.6      |
| 70°-80°   | 2257.2  | 12.6      |
| 80°-90°   | 299.9   | 1.7       |
| 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°    | 17964.0 | 100.0     |
| 0°-180°   | 17964.0 | 100.0     |

**Coefficient of Utilization**



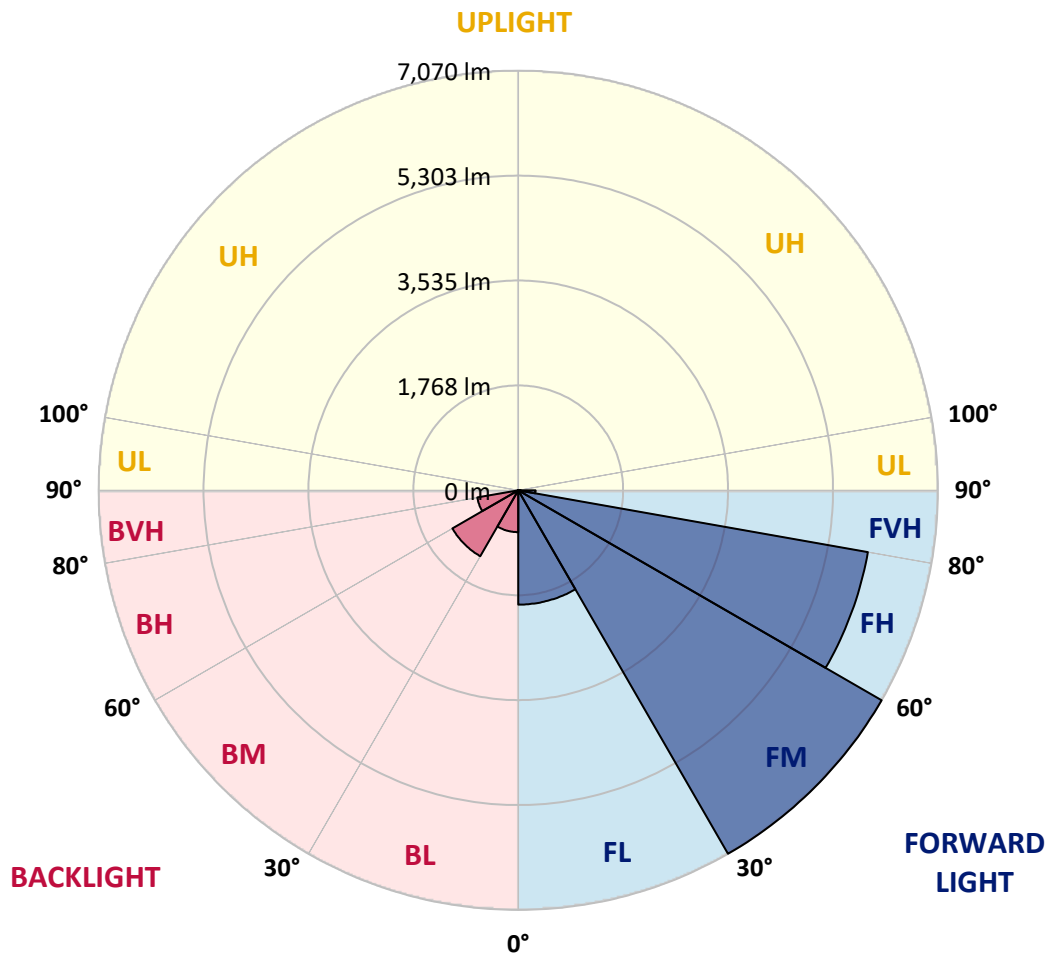
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1925.7 | 10.7      |                         |      |         |
| FM (30°-60°)   | 7070.3 | 39.4      |                         |      |         |
| FH (60°-80°)   | 5981.5 | 33.3      |                         |      | G3/7500 |
| FVH (80°-90°)  | 290.8  | 1.6       |                         |      | G3/500  |
| BL (0°-30°)    | 705.0  | 3.9       | B2/1000                 |      |         |
| BM (30°-60°)   | 1281.4 | 7.1       | B2/2500                 |      |         |
| BH (60°-80°)   | 700.2  | 3.9       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 9.1    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6026.6  | 6026.6  | 6026.6  | 6026.6  | 6026.6  | 6026.6  | 6026.6  | 6026.6  | 6026.6  | 6026.6  | 6026.6  |
| 2.5°  | 6532.9  | 6543.2  | 6595.9  | 6718.5  | 6852.1  | 6862.3  | 6952.5  | 6859.7  | 6828.2  | 6678.5  | 6523.6  |
| 5°    | 6582.3  | 6621.4  | 6802.7  | 7162.7  | 7475.0  | 7575.4  | 7646.9  | 7464.8  | 7273.3  | 6907.4  | 6516.8  |
| 7.5°  | 6184.9  | 6250.4  | 6535.5  | 7211.2  | 7769.4  | 8016.2  | 8063.0  | 7777.9  | 7309.0  | 6706.5  | 6119.4  |
| 10°   | 5676.0  | 5750.9  | 6094.7  | 6925.2  | 7692.0  | 8114.9  | 8179.6  | 7806.0  | 7132.0  | 6381.5  | 5689.6  |
| 12.5° | 5264.1  | 5351.8  | 5703.2  | 6603.6  | 7425.6  | 7893.7  | 8021.3  | 7711.5  | 6978.9  | 6150.9  | 5396.0  |
| 15°   | 5074.4  | 5174.8  | 5544.1  | 6395.9  | 7130.3  | 7498.8  | 7604.3  | 7470.7  | 6893.8  | 6114.3  | 5328.0  |
| 17.5° | 5183.3  | 5292.2  | 5673.5  | 6413.8  | 6852.9  | 7010.3  | 7095.4  | 7149.9  | 6893.8  | 6334.7  | 5527.1  |
| 20°   | 5630.1  | 5747.5  | 6150.9  | 6595.1  | 6623.1  | 6564.4  | 6655.5  | 6847.0  | 6973.8  | 6753.3  | 6005.3  |
| 22.5° | 6247.9  | 6385.7  | 6841.0  | 6905.7  | 6510.8  | 6288.7  | 6300.6  | 6601.0  | 7119.3  | 7284.4  | 6669.1  |
| 25°   | 7001.0  | 7169.5  | 7632.4  | 7368.6  | 6557.6  | 6124.5  | 6120.2  | 6398.5  | 7261.4  | 7816.2  | 7408.6  |
| 27.5° | 7749.0  | 7934.5  | 8341.3  | 7933.7  | 6750.8  | 6094.7  | 6086.2  | 6337.2  | 7400.1  | 8289.4  | 8216.2  |
| 30°   | 8376.2  | 8556.6  | 8907.2  | 8343.0  | 6959.3  | 6164.5  | 6123.6  | 6402.7  | 7482.6  | 8596.6  | 8805.1  |
| 32.5° | 8886.7  | 9031.4  | 9314.8  | 8624.6  | 7182.2  | 6299.8  | 6211.3  | 6578.0  | 7623.0  | 8856.1  | 9346.3  |
| 35°   | 9448.4  | 9600.7  | 9713.9  | 8892.7  | 7432.4  | 6494.7  | 6367.9  | 6856.3  | 7839.2  | 9119.9  | 9939.4  |
| 37.5° | 10089.2 | 10240.6 | 10227.0 | 9137.8  | 7749.8  | 6817.2  | 6736.3  | 7297.1  | 8175.3  | 9381.2  | 10601.5 |
| 40°   | 10716.3 | 10871.2 | 10760.6 | 9405.8  | 8122.6  | 7349.0  | 7289.5  | 7959.2  | 8625.5  | 9715.6  | 11377.6 |
| 42.5° | 11303.5 | 11471.2 | 11234.6 | 9659.4  | 8566.8  | 8019.6  | 8121.7  | 8811.9  | 9188.8  | 10127.5 | 12046.4 |
| 45°   | 11776.7 | 11947.7 | 11632.0 | 9906.2  | 9034.8  | 8833.1  | 9140.3  | 9756.4  | 9866.2  | 10475.5 | 12498.3 |
| 47.5° | 12120.5 | 12282.1 | 11907.7 | 10153.0 | 9633.9  | 9827.9  | 10363.2 | 10747.0 | 10478.1 | 10777.6 | 12819.1 |
| 50°   | 12340.0 | 12466.0 | 11988.6 | 10461.9 | 10420.2 | 10988.7 | 11637.1 | 11824.3 | 11054.2 | 11049.9 | 13208.9 |
| 52.5° | 12479.6 | 12536.6 | 12048.1 | 10784.4 | 11240.5 | 12252.4 | 12884.6 | 12943.4 | 11647.3 | 11349.5 | 13733.9 |
| 55°   | 12960.4 | 13006.3 | 12470.2 | 11175.0 | 11918.8 | 13359.5 | 14013.0 | 13958.6 | 12318.7 | 11935.8 | 14353.4 |
| 57.5° | 13780.7 | 13829.2 | 13342.5 | 11736.7 | 12467.7 | 14043.7 | 14830.8 | 14928.7 | 13105.9 | 12759.5 | 15017.2 |
| 60°   | 14192.6 | 14282.8 | 14109.2 | 12448.1 | 12999.5 | 14481.1 | 15388.2 | 15700.5 | 14089.6 | 13845.4 | 15660.5 |
| 62.5° | 13819.0 | 13950.1 | 14201.9 | 13236.9 | 13528.0 | 14721.9 | 15561.8 | 15977.1 | 15097.2 | 15110.8 | 16057.1 |
| 65°   | 13073.6 | 13178.2 | 13605.4 | 13669.2 | 13834.3 | 14692.1 | 15132.9 | 15590.7 | 15714.1 | 16273.2 | 16035.8 |
| 67.5° | 12173.2 | 12212.4 | 12574.9 | 13703.3 | 13390.1 | 13796.9 | 13844.5 | 14183.2 | 15226.5 | 16685.1 | 15391.6 |
| 70°   | 10877.2 | 10898.5 | 11215.0 | 12563.8 | 11506.9 | 11596.3 | 11525.6 | 11594.6 | 13090.6 | 15681.8 | 13765.4 |
| 72.5° | 8754.0  | 8807.6  | 9257.8  | 10433.8 | 8383.0  | 8125.1  | 8680.0  | 8649.3  | 10081.5 | 13248.9 | 10223.6 |
| 75°   | 6445.3  | 6538.1  | 7218.0  | 8404.2  | 5883.7  | 5322.0  | 5727.1  | 5835.1  | 7166.9  | 10248.3 | 6393.4  |
| 77.5° | 4512.7  | 4581.7  | 5240.3  | 6178.1  | 4258.3  | 3805.6  | 3659.2  | 3787.7  | 4730.6  | 7413.7  | 3220.9  |
| 80°   | 2599.7  | 2625.3  | 3045.6  | 3567.3  | 2869.5  | 3283.1  | 2974.2  | 3062.7  | 2834.6  | 3298.4  | 1385.4  |
| 82.5° | 1701.1  | 1705.4  | 1869.6  | 2123.2  | 1787.1  | 2076.4  | 1536.9  | 1964.9  | 1743.7  | 1325.0  | 451.0   |
| 85°   | 919.1   | 924.2   | 1084.1  | 1507.1  | 1011.8  | 571.9   | 336.1   | 690.1   | 1078.2  | 303.8   | 123.4   |
| 87.5° | 101.3   | 92.8    | 326.8   | 548.0   | 280.8   | 51.9    | 17.9    | 77.4    | 172.7   | 19.6    | 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     |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6026.6  | 6026.6  | 6026.6 | 6026.6 | 6026.6 | 6026.6 | 6026.6 | 6026.6 | 6026.6 | 6026.6 | 6026.6 |
| 2.5°  | 6444.4  | 6373.8  | 6197.7 | 6011.3 | 5861.5 | 5721.1 | 5579.9 | 5407.1 | 5273.5 | 5246.3 | 5202.0 |
| 5°    | 6306.6  | 6082.8  | 5713.5 | 5342.4 | 5043.7 | 4666.8 | 4427.6 | 4241.3 | 4059.2 | 4048.1 | 4011.5 |
| 7.5°  | 5824.9  | 5530.5  | 5010.5 | 4497.4 | 4077.0 | 3717.9 | 3355.4 | 3112.9 | 2922.3 | 2855.0 | 2815.0 |
| 10°   | 5362.0  | 5031.0  | 4381.7 | 3796.2 | 3420.9 | 3103.5 | 2848.2 | 2594.6 | 2364.9 | 2206.6 | 2135.1 |
| 12.5° | 5038.6  | 4672.7  | 3957.0 | 3452.4 | 3183.5 | 2882.3 | 2570.8 | 2254.2 | 1989.6 | 1799.0 | 1682.4 |
| 15°   | 4913.5  | 4522.9  | 3814.9 | 3316.3 | 2984.4 | 2603.1 | 2204.9 | 1843.2 | 1549.6 | 1376.9 | 1272.2 |
| 17.5° | 5062.5  | 4608.0  | 3803.9 | 3150.3 | 2686.5 | 2212.5 | 1772.6 | 1345.4 | 1068.8 | 937.8  | 870.5  |
| 20°   | 5440.3  | 4878.6  | 3799.6 | 2946.9 | 2332.5 | 1749.6 | 1200.7 | 885.0  | 717.4  | 644.2  | 612.7  |
| 22.5° | 5974.7  | 5224.1  | 3833.6 | 2746.1 | 1964.1 | 1250.1 | 828.9  | 650.1  | 564.2  | 525.1  | 507.2  |
| 25°   | 6662.3  | 5709.2  | 3929.8 | 2564.0 | 1617.7 | 932.7  | 645.9  | 544.6  | 484.2  | 453.6  | 440.8  |
| 27.5° | 7395.0  | 6267.4  | 4079.6 | 2405.7 | 1336.0 | 743.8  | 553.1  | 466.3  | 422.9  | 401.7  | 389.7  |
| 30°   | 7999.2  | 6914.2  | 4231.1 | 2229.6 | 1131.8 | 648.4  | 506.3  | 425.5  | 375.3  | 361.7  | 350.6  |
| 32.5° | 8527.6  | 7403.5  | 4338.3 | 2070.4 | 998.2  | 576.1  | 457.8  | 380.4  | 346.3  | 320.0  | 308.1  |
| 35°   | 9074.8  | 7811.1  | 4334.9 | 1958.9 | 906.3  | 521.6  | 417.0  | 340.4  | 299.5  | 268.9  | 259.5  |
| 37.5° | 9667.1  | 8271.5  | 4260.8 | 1863.6 | 866.3  | 478.2  | 394.0  | 319.1  | 278.3  | 247.6  | 235.7  |
| 40°   | 10360.6 | 8754.8  | 4185.1 | 1774.3 | 855.2  | 443.4  | 377.8  | 302.1  | 258.7  | 228.9  | 217.0  |
| 42.5° | 11036.3 | 9190.5  | 4118.7 | 1707.9 | 807.6  | 442.5  | 363.4  | 289.3  | 243.4  | 214.4  | 200.8  |
| 45°   | 11576.7 | 9596.5  | 4106.0 | 1667.9 | 757.4  | 457.8  | 355.7  | 280.8  | 231.5  | 202.5  | 189.8  |
| 47.5° | 12026.0 | 10037.3 | 4187.7 | 1639.8 | 709.7  | 417.8  | 374.4  | 274.9  | 220.4  | 192.3  | 177.9  |
| 50°   | 12560.4 | 10578.5 | 4380.0 | 1593.9 | 659.5  | 376.1  | 428.9  | 276.6  | 211.0  | 182.1  | 166.8  |
| 52.5° | 13305.9 | 11327.3 | 4662.5 | 1516.4 | 590.6  | 337.8  | 422.1  | 278.3  | 200.8  | 171.0  | 155.7  |
| 55°   | 14141.5 | 12262.6 | 4966.3 | 1387.9 | 494.4  | 287.6  | 361.7  | 266.4  | 181.3  | 159.1  | 144.7  |
| 57.5° | 15019.7 | 13111.0 | 5146.7 | 1234.8 | 393.2  | 248.5  | 289.3  | 242.5  | 160.0  | 143.0  | 133.6  |
| 60°   | 15157.6 | 13433.5 | 5064.2 | 1046.7 | 312.3  | 216.1  | 214.4  | 246.8  | 143.0  | 125.9  | 119.1  |
| 62.5° | 14814.6 | 13028.4 | 4665.1 | 879.1  | 261.2  | 189.8  | 176.2  | 215.3  | 129.3  | 112.3  | 105.5  |
| 65°   | 14155.1 | 11933.2 | 4018.3 | 792.3  | 242.5  | 162.5  | 146.4  | 151.5  | 113.2  | 97.9   | 91.9   |
| 67.5° | 13237.8 | 10471.3 | 3299.2 | 742.9  | 240.0  | 139.6  | 125.1  | 114.9  | 97.9   | 85.1   | 80.0   |
| 70°   | 11362.2 | 8723.4  | 2632.1 | 715.7  | 233.2  | 117.4  | 105.5  | 93.6   | 81.7   | 72.3   | 68.1   |
| 72.5° | 8362.5  | 6181.5  | 2047.4 | 685.9  | 234.9  | 93.6   | 91.9   | 77.4   | 65.5   | 56.2   | 54.5   |
| 75°   | 4831.8  | 3531.6  | 1342.8 | 555.7  | 223.8  | 72.3   | 76.6   | 54.5   | 46.0   | 39.1   | 39.1   |
| 77.5° | 2575.1  | 2153.8  | 511.4  | 231.5  | 81.7   | 46.0   | 43.4   | 32.3   | 28.9   | 23.8   | 23.0   |
| 80°   | 1122.4  | 948.0   | 154.0  | 64.7   | 45.1   | 24.7   | 16.2   | 14.5   | 12.8   | 10.2   | 9.4    |
| 82.5° | 397.4   | 342.9   | 50.2   | 31.5   | 19.6   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 90.2    | 64.7    | 0.0    | 7.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0     | 0.0     | 0.0    | 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    |





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**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6026.6 | 6026.6 | 6026.6 | 6026.6 | 6026.6 | 6026.6 | 6026.6 | 6026.6 | 6026.6 | 6026.6 | 6026.6 |
| 2.5°  | 5111.8 | 5093.1 | 4982.5 | 4986.7 | 5006.3 | 5034.4 | 4968.0 | 4998.6 | 5081.2 | 5160.3 | 5190.1 |
| 5°    | 3952.8 | 3957.0 | 3889.8 | 3931.5 | 3969.0 | 3994.5 | 3887.3 | 3889.0 | 3954.5 | 4043.8 | 4090.6 |
| 7.5°  | 2785.2 | 2778.4 | 2781.8 | 2881.4 | 2952.0 | 2901.0 | 2941.0 | 2802.3 | 2810.8 | 2874.6 | 2826.9 |
| 10°   | 2070.4 | 1976.8 | 1924.1 | 1998.9 | 2076.4 | 2048.3 | 1979.4 | 1934.3 | 1965.8 | 2036.4 | 2031.3 |
| 12.5° | 1627.1 | 1492.6 | 1413.5 | 1359.9 | 1423.7 | 1370.9 | 1369.2 | 1330.1 | 1287.5 | 1295.2 | 1408.4 |
| 15°   | 1223.7 | 1125.8 | 1032.2 | 946.3  | 944.6  | 926.7  | 835.7  | 733.5  | 725.0  | 730.1  | 788.9  |
| 17.5° | 841.6  | 808.4  | 770.1  | 696.1  | 676.5  | 601.6  | 513.1  | 472.3  | 451.9  | 461.2  | 480.8  |
| 20°   | 591.4  | 578.7  | 582.9  | 542.9  | 514.8  | 443.4  | 391.4  | 375.3  | 371.9  | 381.2  | 390.6  |
| 22.5° | 490.2  | 467.2  | 464.6  | 446.8  | 418.7  | 366.8  | 338.7  | 329.3  | 325.1  | 333.6  | 340.4  |
| 25°   | 428.9  | 405.9  | 396.6  | 385.5  | 355.7  | 320.0  | 302.9  | 294.4  | 290.2  | 295.3  | 299.5  |
| 27.5° | 377.8  | 356.6  | 348.0  | 340.4  | 311.5  | 285.9  | 272.3  | 264.7  | 261.2  | 263.0  | 267.2  |
| 30°   | 339.5  | 320.8  | 309.8  | 300.4  | 275.7  | 257.8  | 245.9  | 238.3  | 234.9  | 234.9  | 239.1  |
| 32.5° | 299.5  | 289.3  | 279.1  | 267.2  | 244.2  | 232.3  | 220.4  | 211.9  | 208.5  | 209.3  | 212.7  |
| 35°   | 249.3  | 245.9  | 248.5  | 237.4  | 217.8  | 207.6  | 195.7  | 186.4  | 183.8  | 184.7  | 188.1  |
| 37.5° | 221.3  | 205.9  | 215.3  | 209.3  | 198.3  | 184.7  | 169.3  | 160.8  | 156.6  | 159.1  | 160.8  |
| 40°   | 203.4  | 184.7  | 177.9  | 183.8  | 182.1  | 160.0  | 146.4  | 137.9  | 134.5  | 135.3  | 137.0  |
| 42.5° | 188.1  | 165.9  | 150.6  | 149.8  | 160.0  | 139.6  | 125.1  | 117.4  | 113.2  | 113.2  | 114.9  |
| 45°   | 173.6  | 149.8  | 131.1  | 116.6  | 134.5  | 118.3  | 104.7  | 97.9   | 92.8   | 92.8   | 93.6   |
| 47.5° | 162.5  | 136.2  | 114.0  | 95.3   | 101.3  | 97.0   | 85.9   | 79.1   | 74.0   | 74.0   | 74.9   |
| 50°   | 152.3  | 122.5  | 98.7   | 80.0   | 75.7   | 80.0   | 69.8   | 62.1   | 58.7   | 57.9   | 59.6   |
| 52.5° | 141.3  | 108.9  | 84.2   | 68.1   | 59.6   | 60.4   | 54.5   | 49.4   | 45.1   | 45.1   | 46.8   |
| 55°   | 130.2  | 97.9   | 73.2   | 57.9   | 49.4   | 45.1   | 43.4   | 40.0   | 36.6   | 36.6   | 38.3   |
| 57.5° | 119.1  | 85.9   | 62.1   | 47.7   | 39.1   | 35.7   | 35.7   | 33.2   | 30.6   | 30.6   | 32.3   |
| 60°   | 108.9  | 74.0   | 51.1   | 39.1   | 30.6   | 29.8   | 30.6   | 28.1   | 26.4   | 26.4   | 28.1   |
| 62.5° | 97.0   | 63.0   | 41.7   | 32.3   | 24.7   | 23.8   | 26.4   | 24.7   | 23.0   | 23.0   | 24.7   |
| 65°   | 82.5   | 53.6   | 33.2   | 24.7   | 18.7   | 18.7   | 22.1   | 20.4   | 18.7   | 18.7   | 20.4   |
| 67.5° | 69.8   | 45.1   | 25.5   | 17.9   | 13.6   | 14.5   | 18.7   | 17.0   | 16.2   | 16.2   | 17.9   |
| 70°   | 57.9   | 34.9   | 17.9   | 11.1   | 7.7    | 11.1   | 14.5   | 14.5   | 14.5   | 14.5   | 16.2   |
| 72.5° | 43.4   | 23.8   | 10.2   | 4.3    | 3.4    | 7.7    | 11.9   | 13.6   | 12.8   | 12.8   | 15.3   |
| 75°   | 28.1   | 13.6   | 3.4    | 0.0    | 0.0    | 4.3    | 9.4    | 11.1   | 11.1   | 10.2   | 12.8   |
| 77.5° | 16.2   | 4.3    | 0.0    | 0.0    | 0.0    | 0.0    | 6.0    | 5.1    | 4.3    | 3.4    | 6.0    |
| 80°   | 4.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 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    |



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|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°    | 359°    | 360°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 6026.6 | 6026.6 | 6026.6 | 6026.6 | 6026.6 | 6026.6 | 6026.6 | 6026.6  | 6026.6  | 6026.6  |
| 2.5°  | 5310.1 | 5410.5 | 5551.8 | 5701.5 | 5932.2 | 6115.1 | 6294.7 | 6448.7  | 6508.3  | 6532.9  |
| 5°    | 4203.0 | 4350.2 | 4557.0 | 4822.5 | 5238.6 | 5613.0 | 5992.6 | 6374.7  | 6540.6  | 6582.3  |
| 7.5°  | 3015.9 | 3203.9 | 3466.9 | 3799.6 | 4287.2 | 4772.3 | 5302.4 | 5863.2  | 6120.2  | 6184.9  |
| 10°   | 2232.1 | 2461.9 | 2763.1 | 3113.7 | 3579.2 | 4077.9 | 4655.7 | 5296.5  | 5590.1  | 5676.0  |
| 12.5° | 1583.7 | 1894.3 | 2297.6 | 2724.0 | 3127.3 | 3572.4 | 4157.0 | 4863.3  | 5171.4  | 5264.1  |
| 15°   | 930.1  | 1230.5 | 1707.9 | 2278.9 | 2795.5 | 3246.5 | 3840.5 | 4641.2  | 4980.8  | 5074.4  |
| 17.5° | 533.6  | 683.3  | 1044.1 | 1680.7 | 2381.9 | 3006.5 | 3740.9 | 4696.5  | 5096.5  | 5183.3  |
| 20°   | 407.6  | 455.3  | 601.6  | 1082.4 | 1898.5 | 2770.8 | 3740.9 | 5009.7  | 5502.4  | 5630.1  |
| 22.5° | 356.6  | 391.4  | 451.0  | 645.9  | 1397.3 | 2518.0 | 3784.3 | 5462.4  | 6106.6  | 6247.9  |
| 25°   | 316.6  | 348.0  | 399.1  | 485.9  | 953.1  | 2217.6 | 3887.3 | 6018.1  | 6818.0  | 7001.0  |
| 27.5° | 283.4  | 313.2  | 359.1  | 425.5  | 651.8  | 1855.1 | 4026.0 | 6670.0  | 7602.6  | 7749.0  |
| 30°   | 253.6  | 281.7  | 323.4  | 370.2  | 502.9  | 1444.1 | 4144.3 | 7284.4  | 8218.7  | 8376.2  |
| 32.5° | 225.5  | 251.0  | 288.5  | 323.4  | 411.9  | 1068.0 | 4157.0 | 7771.1  | 8730.2  | 8886.7  |
| 35°   | 199.1  | 222.1  | 256.1  | 283.4  | 341.2  | 843.3  | 3958.7 | 8193.2  | 9241.6  | 9448.4  |
| 37.5° | 173.6  | 195.7  | 225.5  | 245.9  | 300.4  | 687.6  | 3655.8 | 8663.8  | 9897.7  | 10089.2 |
| 40°   | 149.8  | 169.3  | 200.0  | 213.6  | 284.2  | 528.5  | 3326.5 | 9157.4  | 10541.0 | 10716.3 |
| 42.5° | 127.6  | 146.4  | 176.2  | 202.5  | 249.3  | 394.9  | 2970.8 | 9620.3  | 11119.7 | 11303.5 |
| 45°   | 106.4  | 125.9  | 155.7  | 214.4  | 206.8  | 295.3  | 2590.4 | 9927.5  | 11576.7 | 11776.7 |
| 47.5° | 85.9   | 108.1  | 148.9  | 204.2  | 165.1  | 217.0  | 2289.1 | 10218.5 | 11923.0 | 12120.5 |
| 50°   | 68.9   | 91.1   | 167.6  | 182.1  | 135.3  | 165.9  | 2163.2 | 10478.9 | 12150.2 | 12340.0 |
| 52.5° | 56.2   | 76.6   | 158.3  | 139.6  | 113.2  | 137.0  | 2231.3 | 10901.0 | 12360.4 | 12479.6 |
| 55°   | 46.8   | 60.4   | 95.3   | 97.0   | 96.2   | 116.6  | 2315.5 | 11506.9 | 12904.2 | 12960.4 |
| 57.5° | 40.8   | 48.5   | 66.4   | 74.9   | 80.8   | 103.8  | 2317.2 | 12376.6 | 13745.8 | 13780.7 |
| 60°   | 34.9   | 42.5   | 55.3   | 60.4   | 69.8   | 92.8   | 2233.0 | 12680.4 | 14076.9 | 14192.6 |
| 62.5° | 30.6   | 37.4   | 46.0   | 50.2   | 58.7   | 83.4   | 2035.5 | 12240.4 | 13622.4 | 13819.0 |
| 65°   | 27.2   | 34.0   | 38.3   | 42.5   | 51.9   | 74.9   | 1710.5 | 11360.5 | 12868.5 | 13073.6 |
| 67.5° | 23.8   | 29.8   | 34.0   | 38.3   | 46.8   | 66.4   | 1259.4 | 10338.5 | 12003.0 | 12173.2 |
| 70°   | 21.3   | 26.4   | 30.6   | 34.0   | 40.8   | 56.2   | 764.2  | 8772.7  | 10806.5 | 10877.2 |
| 72.5° | 20.4   | 23.8   | 28.1   | 30.6   | 35.7   | 49.4   | 387.2  | 6447.0  | 8639.1  | 8754.0  |
| 75°   | 17.9   | 21.3   | 25.5   | 27.2   | 31.5   | 42.5   | 157.4  | 4234.5  | 6260.6  | 6445.3  |
| 77.5° | 14.5   | 19.6   | 23.0   | 24.7   | 27.2   | 34.9   | 80.0   | 2706.1  | 4393.6  | 4512.7  |
| 80°   | 5.1    | 14.5   | 19.6   | 20.4   | 23.0   | 25.5   | 52.8   | 1481.5  | 2548.7  | 2599.7  |
| 82.5° | 0.0    | 9.4    | 15.3   | 14.5   | 16.2   | 19.6   | 34.0   | 704.6   | 1682.4  | 1701.1  |
| 85°   | 0.0    | 4.3    | 11.9   | 9.4    | 6.8    | 13.6   | 11.9   | 154.0   | 882.5   | 919.1   |
| 87.5° | 0.0    | 0.0    | 0.9    | 4.3    | 3.4    | 5.1    | 1.7    | 0.9     | 80.0    | 101.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |

(END OF REPORT)