

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: P299426

Luminaire Tested: **GAA-AF-06-LED-U-SLR-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299426  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194679)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-06-LED-U-SLR-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill  
Light Eliminator Right OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

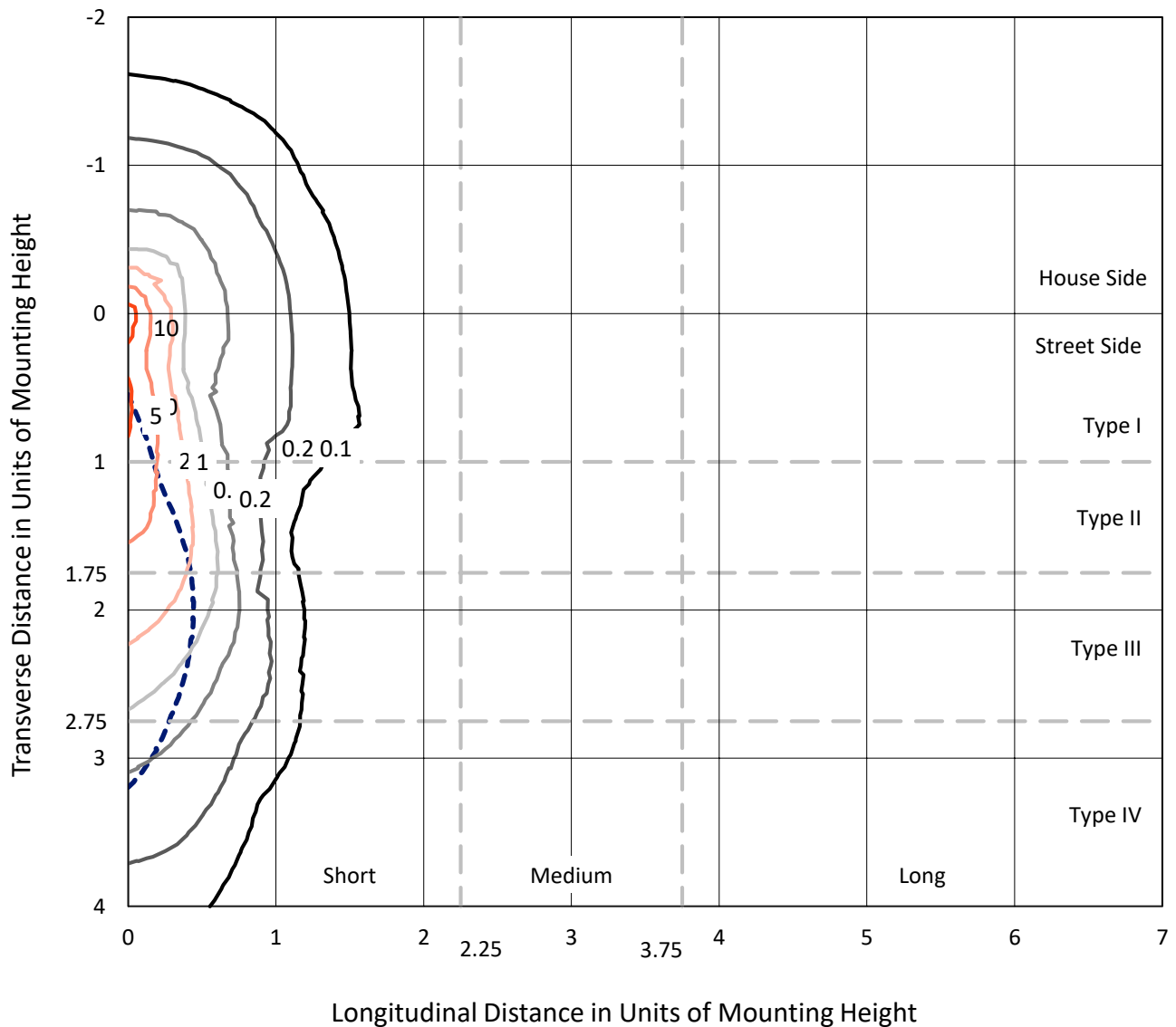
Lumens per Lamp: N/A  
Luminaire Lumens: 24369 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 249  
Input Voltage (V): NR  
Input Current (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: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

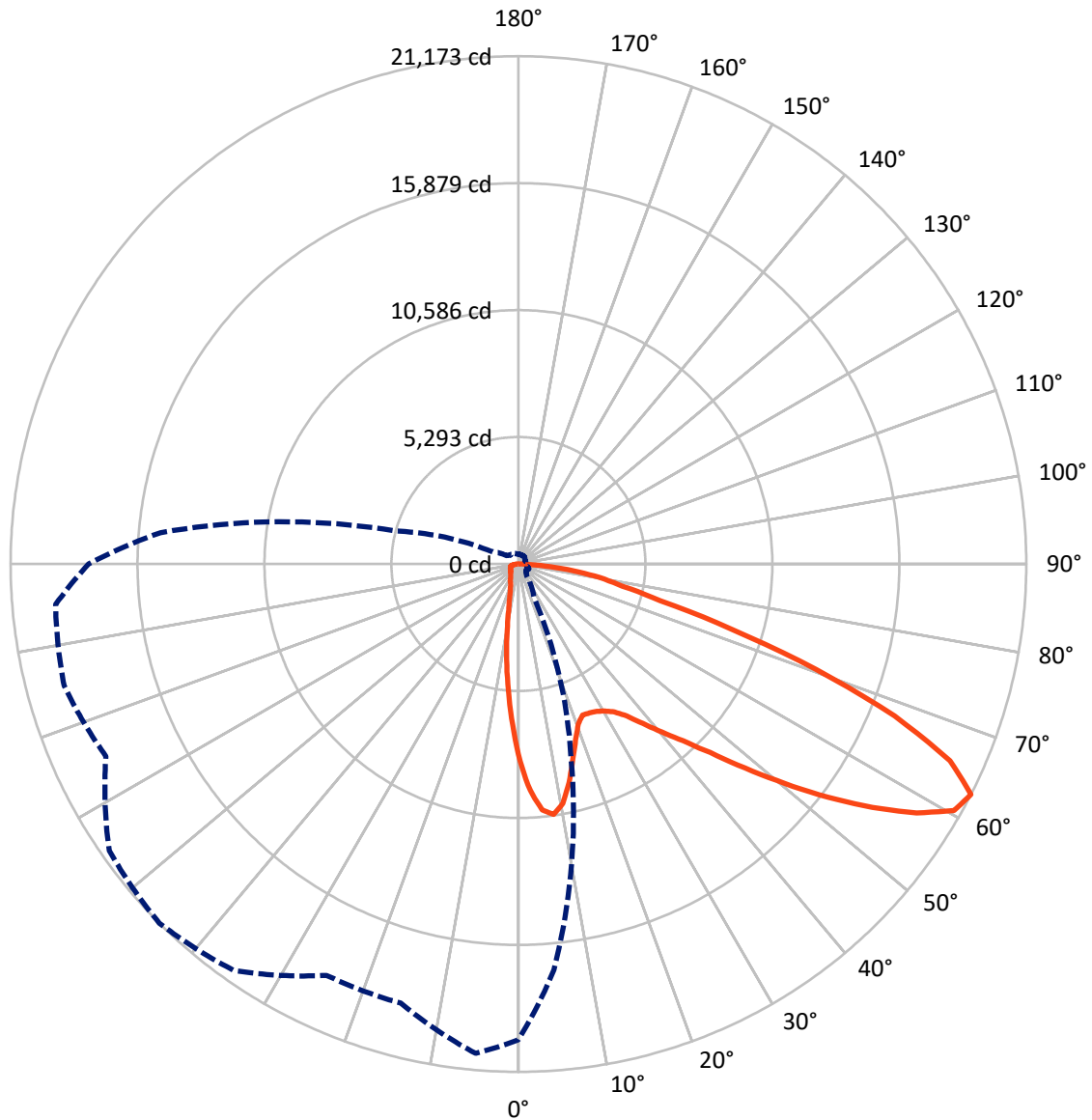
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4032.8   | 0.0    | 4032.8  |
|                    | % Fixture | 16.5     | 0.0    | 16.5    |
| <b>Street Side</b> | Lumens    | 20336.3  | 0.0    | 20336.3 |
|                    | % Fixture | 83.5     | 0.0    | 83.5    |
| <b>Total</b>       | Lumens    | 24369.0  | 0.0    | 24369.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 599.3   | 2.5       |
| 10°-20°   | 1099.0  | 4.5       |
| 20°-30°   | 1602.4  | 6.6       |
| 30°-40°   | 2467.9  | 10.1      |
| 40°-50°   | 3632.1  | 14.9      |
| 50°-60°   | 5327.5  | 21.9      |
| 60°-70°   | 5955.4  | 24.4      |
| 70°-80°   | 2915.7  | 12.0      |
| 80°-90°   | 769.8   | 3.2       |
| 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°    | 24369.0 | 100.0     |
| 0°-180°   | 24369.0 | 100.0     |



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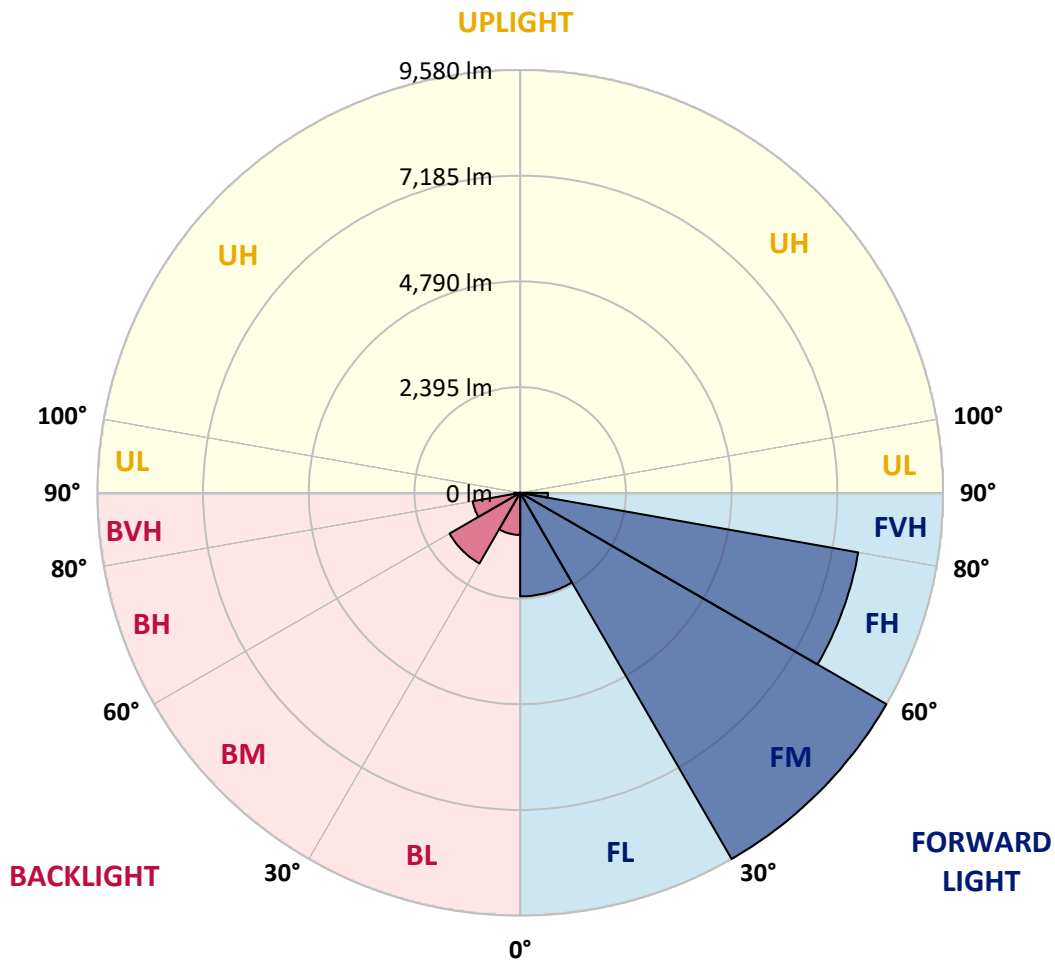
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2346.7 | 9.6       |                         |      |          |
| FM   | (30°-60°)   | 9579.7 | 39.3      |                         |      |          |
| FH   | (60°-80°)   | 7777.8 | 31.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 632.2  | 2.6       |                         |      | G4/750   |
| BL   | (0°-30°)    | 954.1  | 3.9       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1847.8 | 7.6       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1093.3 | 4.5       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 137.6  | 0.6       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8233.3  | 8233.3  | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 |
| 2.5°  | 8554.5  | 8380.5  | 8091.0 | 7789.7 | 7606.4 | 7391.8 | 7224.3 | 7077.1 | 6782.3 | 6724.7 | 6777.0 |
| 5°    | 8044.3  | 7694.8  | 7149.3 | 6600.2 | 6234.4 | 5841.8 | 5536.5 | 5291.5 | 4917.6 | 4851.9 | 4931.0 |
| 7.5°  | 7226.0  | 6807.8  | 6087.2 | 5386.4 | 4869.3 | 4379.0 | 4049.7 | 3787.0 | 3495.0 | 3369.2 | 3377.0 |
| 10°   | 6519.9  | 6048.3  | 5196.2 | 4434.2 | 4010.8 | 3679.9 | 3402.5 | 3133.2 | 2837.2 | 2642.9 | 2589.4 |
| 12.5° | 6124.5  | 5582.3  | 4600.1 | 3919.6 | 3527.0 | 3179.0 | 2880.2 | 2592.2 | 2275.9 | 2077.6 | 2021.6 |
| 15°   | 6056.4  | 5466.7  | 4376.6 | 3590.3 | 3098.3 | 2657.9 | 2305.5 | 1983.9 | 1658.3 | 1497.7 | 1464.0 |
| 17.5° | 6352.4  | 5673.1  | 4304.0 | 3296.7 | 2695.2 | 2151.4 | 1718.7 | 1359.8 | 1094.6 | 1014.3 | 1007.4 |
| 20°   | 6920.2  | 6069.8  | 4294.7 | 3020.9 | 2297.4 | 1659.9 | 1197.6 | 936.4  | 820.0  | 796.9  | 798.5  |
| 22.5° | 7717.5  | 6684.6  | 4409.9 | 2813.2 | 1931.6 | 1237.7 | 900.3  | 783.5  | 738.1  | 716.6  | 716.6  |
| 25°   | 8748.8  | 7531.3  | 4675.1 | 2662.0 | 1614.1 | 988.7  | 794.5  | 724.7  | 681.7  | 667.1  | 670.0  |
| 27.5° | 9748.4  | 8355.0  | 4983.3 | 2542.7 | 1406.4 | 897.5  | 752.7  | 689.8  | 652.5  | 637.5  | 644.4  |
| 30°   | 10527.9 | 9086.6  | 5240.4 | 2380.5 | 1300.6 | 871.9  | 767.7  | 703.2  | 649.7  | 627.0  | 628.2  |
| 32.5° | 11173.5 | 9726.9  | 5456.2 | 2263.7 | 1206.9 | 747.4  | 661.8  | 633.5  | 627.0  | 600.2  | 586.8  |
| 35°   | 11998.8 | 10424.9 | 5600.9 | 2266.6 | 1162.7 | 667.1  | 589.3  | 539.8  | 503.7  | 472.9  | 472.9  |
| 37.5° | 12966.0 | 11225.8 | 5755.0 | 2297.4 | 1146.9 | 620.1  | 564.1  | 514.2  | 481.0  | 451.4  | 446.1  |
| 40°   | 13922.3 | 12010.9 | 5895.8 | 2327.0 | 1137.1 | 592.1  | 543.8  | 498.4  | 467.6  | 438.0  | 429.9  |
| 42.5° | 14735.8 | 12656.6 | 6021.5 | 2341.6 | 1105.1 | 589.3  | 529.2  | 487.5  | 458.3  | 425.8  | 418.1  |
| 45°   | 15337.2 | 13197.6 | 6156.9 | 2364.3 | 1073.1 | 600.2  | 529.2  | 486.2  | 450.2  | 419.3  | 411.2  |
| 47.5° | 15874.1 | 13832.6 | 6383.2 | 2364.3 | 1034.1 | 579.9  | 546.7  | 487.5  | 448.9  | 416.5  | 410.0  |
| 50°   | 16593.6 | 14703.3 | 6811.9 | 2309.6 | 979.4  | 558.4  | 575.9  | 482.2  | 436.8  | 411.2  | 403.1  |
| 52.5° | 17584.7 | 15819.4 | 7492.4 | 2214.3 | 895.0  | 517.1  | 571.8  | 479.8  | 424.6  | 397.8  | 388.5  |
| 55°   | 18757.1 | 17014.1 | 8234.5 | 2103.1 | 768.9  | 487.5  | 551.9  | 472.9  | 411.2  | 381.6  | 372.3  |
| 57.5° | 19672.0 | 17836.6 | 8756.9 | 1931.6 | 659.0  | 471.6  | 489.1  | 466.4  | 395.0  | 364.2  | 356.5  |
| 60°   | 20036.2 | 17804.5 | 8900.4 | 1702.5 | 605.5  | 458.3  | 427.4  | 522.3  | 381.6  | 350.8  | 341.5  |
| 62.5° | 19839.5 | 16982.1 | 8498.5 | 1541.9 | 593.3  | 440.8  | 400.7  | 483.4  | 371.1  | 341.5  | 328.1  |
| 65°   | 18929.9 | 15524.6 | 7433.6 | 1498.9 | 628.2  | 423.4  | 383.2  | 379.2  | 356.5  | 328.1  | 314.7  |
| 67.5° | 16948.4 | 13346.4 | 5951.7 | 1502.9 | 672.4  | 405.9  | 365.8  | 347.1  | 336.2  | 313.5  | 301.3  |
| 70°   | 13804.7 | 10552.2 | 4436.6 | 1513.9 | 695.1  | 385.7  | 347.1  | 326.9  | 314.7  | 292.0  | 283.9  |
| 72.5° | 10150.3 | 8132.7  | 3223.2 | 1444.1 | 699.2  | 363.0  | 321.6  | 304.2  | 292.0  | 268.1  | 261.2  |
| 75°   | 6944.5  | 6221.0  | 2235.8 | 1196.3 | 609.5  | 330.9  | 293.2  | 277.4  | 269.3  | 239.7  | 235.6  |
| 77.5° | 5072.9  | 4669.8  | 1430.8 | 888.1  | 470.0  | 290.8  | 258.7  | 246.6  | 241.3  | 208.9  | 203.6  |
| 80°   | 4071.2  | 3694.5  | 895.0  | 608.3  | 344.3  | 243.7  | 217.0  | 210.5  | 204.8  | 172.8  | 168.7  |
| 82.5° | 2823.8  | 2474.2  | 574.7  | 395.0  | 258.7  | 189.0  | 171.5  | 168.7  | 160.6  | 131.4  | 127.3  |
| 85°   | 1489.6  | 1343.6  | 364.2  | 269.3  | 187.4  | 129.8  | 119.2  | 119.2  | 115.2  | 87.2   | 84.4   |
| 87.5° | 190.2   | 309.4   | 184.9  | 140.7  | 103.0  | 57.6   | 57.6   | 56.4   | 60.4   | 49.5   | 43.0   |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   | 185°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 |
| 2.5°  | 6653.7 | 6718.2 | 6656.6 | 6660.6 | 6728.8 | 6932.3 | 7024.8 | 7101.0 | 7183.0 | 7236.5 | 7260.4 |
| 5°    | 4822.7 | 4972.8 | 5023.5 | 5130.5 | 5288.7 | 5548.6 | 5651.6 | 5726.7 | 5776.5 | 5805.7 | 5817.9 |
| 7.5°  | 3298.3 | 3389.1 | 3490.9 | 3663.7 | 4008.0 | 4160.9 | 4229.0 | 4211.6 | 4155.6 | 4135.3 | 4115.4 |
| 10°   | 2486.4 | 2450.3 | 2431.2 | 2526.5 | 2805.1 | 2959.2 | 3007.5 | 2960.5 | 2929.6 | 2936.5 | 2969.8 |
| 12.5° | 1926.3 | 1863.5 | 1787.2 | 1776.3 | 1960.0 | 2097.9 | 2128.7 | 2131.1 | 2187.5 | 2237.0 | 2310.8 |
| 15°   | 1404.0 | 1397.1 | 1359.8 | 1337.1 | 1441.3 | 1554.0 | 1567.4 | 1591.3 | 1642.4 | 1678.5 | 1742.6 |
| 17.5° | 989.9  | 1026.0 | 1055.6 | 1070.2 | 1149.3 | 1229.6 | 1215.0 | 1202.8 | 1193.5 | 1193.5 | 1224.3 |
| 20°   | 798.5  | 822.4  | 860.2  | 902.7  | 983.4  | 1039.4 | 1003.3 | 955.1  | 920.2  | 909.6  | 913.7  |
| 22.5° | 719.4  | 738.1  | 759.6  | 796.9  | 869.5  | 908.4  | 869.5  | 834.6  | 799.7  | 787.6  | 783.5  |
| 25°   | 679.3  | 703.2  | 723.5  | 751.5  | 805.0  | 831.8  | 794.5  | 768.9  | 747.4  | 732.8  | 721.9  |
| 27.5° | 656.6  | 677.7  | 683.3  | 696.7  | 742.1  | 766.1  | 747.4  | 736.9  | 723.5  | 710.1  | 696.7  |
| 30°   | 632.2  | 628.2  | 618.9  | 620.1  | 656.6  | 680.5  | 679.3  | 681.7  | 680.5  | 676.4  | 674.0  |
| 32.5° | 577.5  | 569.4  | 561.3  | 569.4  | 602.6  | 624.1  | 625.8  | 631.0  | 631.0  | 629.8  | 640.4  |
| 35°   | 481.0  | 495.6  | 504.9  | 529.2  | 569.4  | 588.0  | 579.9  | 566.5  | 542.6  | 527.6  | 526.4  |
| 37.5° | 444.9  | 447.3  | 463.5  | 496.8  | 541.4  | 558.4  | 546.7  | 515.8  | 499.6  | 496.8  | 500.8  |
| 40°   | 427.4  | 429.9  | 439.2  | 470.0  | 514.2  | 531.7  | 521.1  | 498.4  | 483.4  | 482.2  | 489.1  |
| 42.5° | 415.3  | 418.1  | 423.4  | 444.9  | 481.0  | 502.5  | 503.7  | 487.5  | 470.0  | 471.6  | 478.1  |
| 45°   | 408.4  | 410.0  | 408.4  | 419.3  | 452.6  | 478.1  | 489.1  | 478.1  | 463.5  | 466.4  | 474.1  |
| 47.5° | 407.2  | 403.1  | 397.8  | 400.7  | 435.6  | 460.7  | 474.1  | 470.0  | 463.5  | 466.4  | 472.9  |
| 50°   | 401.9  | 392.6  | 385.7  | 384.5  | 419.3  | 446.1  | 458.3  | 458.3  | 460.7  | 466.4  | 472.9  |
| 52.5° | 385.7  | 375.1  | 375.1  | 371.1  | 408.4  | 433.9  | 442.0  | 443.3  | 447.3  | 456.6  | 466.4  |
| 55°   | 365.8  | 361.7  | 365.8  | 358.9  | 400.7  | 424.6  | 428.7  | 431.5  | 433.9  | 442.0  | 455.4  |
| 57.5° | 348.4  | 343.1  | 352.4  | 349.6  | 393.8  | 415.3  | 415.3  | 420.5  | 420.5  | 431.5  | 442.0  |
| 60°   | 339.0  | 328.1  | 332.1  | 335.0  | 384.5  | 407.2  | 404.7  | 410.0  | 412.4  | 422.2  | 429.9  |
| 62.5° | 326.9  | 317.5  | 317.5  | 324.0  | 373.9  | 395.0  | 393.8  | 397.8  | 408.4  | 411.2  | 419.3  |
| 65°   | 312.3  | 308.2  | 304.2  | 312.3  | 363.0  | 381.6  | 383.2  | 388.5  | 397.8  | 400.7  | 407.2  |
| 67.5° | 297.3  | 298.9  | 290.8  | 298.9  | 353.6  | 368.2  | 368.2  | 379.2  | 383.2  | 388.5  | 395.0  |
| 70°   | 281.4  | 282.7  | 275.8  | 285.5  | 347.1  | 353.6  | 352.4  | 367.0  | 369.9  | 373.9  | 380.4  |
| 72.5° | 261.2  | 261.2  | 258.7  | 272.1  | 336.2  | 339.0  | 336.2  | 348.4  | 349.6  | 353.6  | 356.5  |
| 75°   | 239.7  | 239.7  | 237.2  | 255.9  | 329.7  | 322.8  | 314.7  | 324.0  | 326.9  | 329.7  | 329.7  |
| 77.5° | 211.7  | 214.5  | 214.5  | 237.2  | 306.6  | 316.3  | 289.2  | 294.8  | 298.9  | 300.1  | 296.0  |
| 80°   | 176.8  | 183.7  | 186.1  | 215.7  | 257.1  | 292.0  | 258.7  | 262.4  | 264.0  | 264.0  | 258.7  |
| 82.5° | 135.5  | 147.2  | 154.1  | 186.1  | 197.1  | 244.9  | 225.1  | 229.1  | 225.1  | 217.0  | 214.5  |
| 85°   | 93.7   | 109.9  | 118.0  | 141.9  | 148.8  | 189.0  | 187.4  | 187.4  | 179.7  | 168.7  | 167.5  |
| 87.5° | 51.1   | 60.4   | 65.7   | 84.4   | 101.8  | 127.3  | 137.9  | 133.8  | 127.3  | 120.4  | 122.1  |
| 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):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°    | 270°    | 275°    | 285°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3  | 8233.3  | 8233.3  | 8233.3  |
| 2.5°  | 7386.5 | 7568.6 | 7859.4 | 8081.6 | 8305.5 | 8521.3 | 8754.4 | 8932.5  | 9083.7  | 9142.9  | 9322.2  |
| 5°    | 5940.0 | 6167.5 | 6442.0 | 6937.6 | 7288.8 | 7675.7 | 8123.4 | 8715.5  | 8943.0  | 9258.1  | 9773.6  |
| 7.5°  | 4199.8 | 4405.8 | 4847.9 | 5248.5 | 5745.7 | 6293.6 | 6897.5 | 7714.6  | 8013.5  | 8518.4  | 9358.3  |
| 10°   | 3136.1 | 3375.7 | 3730.6 | 4068.4 | 4506.4 | 5066.4 | 5760.3 | 6674.0  | 7037.0  | 7584.9  | 8552.1  |
| 12.5° | 2526.5 | 2809.2 | 3185.5 | 3503.1 | 3842.1 | 4237.1 | 4911.1 | 5912.8  | 6399.5  | 6878.8  | 7856.6  |
| 15°   | 1940.9 | 2237.0 | 2587.0 | 2990.1 | 3363.6 | 3789.8 | 4495.8 | 5591.6  | 6151.3  | 6651.3  | 7485.5  |
| 17.5° | 1343.6 | 1596.6 | 2037.4 | 2458.0 | 2936.5 | 3481.6 | 4380.7 | 5659.7  | 6328.1  | 6904.4  | 7550.0  |
| 20°   | 952.6  | 1097.0 | 1458.7 | 1946.6 | 2542.7 | 3226.9 | 4359.2 | 6018.7  | 6888.1  | 7545.9  | 7962.4  |
| 22.5° | 800.9  | 854.5  | 1065.0 | 1512.3 | 2200.9 | 3036.7 | 4434.2 | 6522.3  | 7643.7  | 8483.5  | 8620.2  |
| 25°   | 730.0  | 762.4  | 871.9  | 1187.0 | 1896.7 | 2898.8 | 4687.3 | 7272.6  | 8578.8  | 9421.6  | 9397.2  |
| 27.5° | 691.0  | 724.7  | 796.9  | 1002.1 | 1668.0 | 2813.2 | 4940.3 | 8162.3  | 9647.8  | 10439.5 | 10139.4 |
| 30°   | 679.3  | 724.7  | 800.9  | 944.5  | 1504.6 | 2677.8 | 5148.0 | 8943.0  | 10470.3 | 11126.9 | 10477.2 |
| 32.5° | 670.0  | 676.4  | 711.3  | 814.3  | 1348.8 | 2519.6 | 5288.7 | 9643.8  | 11275.3 | 11780.6 | 10963.4 |
| 35°   | 541.4  | 574.7  | 631.0  | 730.0  | 1258.0 | 2424.7 | 5288.7 | 10248.1 | 12068.5 | 12440.8 | 11427.0 |
| 37.5° | 521.1  | 550.7  | 600.2  | 684.6  | 1206.9 | 2377.7 | 5182.8 | 10830.8 | 12878.8 | 13189.9 | 11808.6 |
| 40°   | 510.6  | 534.5  | 581.5  | 649.7  | 1185.4 | 2324.2 | 5028.7 | 11345.0 | 13670.4 | 13939.7 | 12165.1 |
| 42.5° | 502.5  | 524.0  | 568.2  | 628.2  | 1157.4 | 2265.4 | 4904.2 | 11757.5 | 14357.8 | 14580.1 | 12505.3 |
| 45°   | 498.4  | 521.1  | 569.4  | 639.1  | 1101.0 | 2187.5 | 4862.9 | 12203.6 | 14923.1 | 15114.6 | 12873.5 |
| 47.5° | 498.4  | 525.2  | 575.9  | 661.8  | 1034.1 | 2107.2 | 4992.6 | 12792.0 | 15457.6 | 15551.3 | 13307.5 |
| 50°   | 494.4  | 524.0  | 594.9  | 639.1  | 936.4  | 2005.4 | 5298.0 | 13532.5 | 16036.4 | 16046.9 | 13857.0 |
| 52.5° | 486.2  | 521.1  | 640.4  | 625.8  | 823.7  | 1871.6 | 5710.8 | 14483.9 | 16892.5 | 16956.5 | 14716.7 |
| 55°   | 476.9  | 517.1  | 628.2  | 594.9  | 731.6  | 1712.2 | 6048.3 | 15639.7 | 18095.3 | 18273.3 | 15981.6 |
| 57.5° | 464.8  | 511.8  | 608.3  | 551.9  | 671.2  | 1507.0 | 6170.3 | 16486.5 | 18935.2 | 19382.5 | 17406.7 |
| 60°   | 454.2  | 507.7  | 549.1  | 526.4  | 633.5  | 1334.2 | 5934.3 | 16319.0 | 18877.6 | 19842.0 | 18669.9 |
| 62.5° | 443.3  | 511.8  | 500.8  | 510.6  | 616.0  | 1223.1 | 5318.3 | 14977.9 | 17922.5 | 19367.9 | 19606.3 |
| 65°   | 431.5  | 475.7  | 472.9  | 496.8  | 612.4  | 1178.9 | 4408.6 | 12967.2 | 16076.5 | 17869.0 | 19827.4 |
| 67.5° | 415.3  | 439.2  | 452.6  | 479.8  | 625.8  | 1140.0 | 3557.8 | 10696.6 | 13511.0 | 15622.3 | 18675.2 |
| 70°   | 397.8  | 418.1  | 432.7  | 458.3  | 617.6  | 1122.5 | 2959.2 | 8435.3  | 10720.9 | 12803.8 | 16402.2 |
| 72.5° | 375.1  | 392.6  | 405.9  | 429.9  | 609.5  | 1113.2 | 2499.8 | 6793.2  | 8004.2  | 9511.2  | 13335.9 |
| 75°   | 348.4  | 364.2  | 373.9  | 397.8  | 584.0  | 1019.5 | 1965.3 | 5748.2  | 5989.5  | 6616.4  | 10621.6 |
| 77.5° | 317.5  | 329.7  | 337.4  | 364.2  | 517.1  | 848.0  | 1421.4 | 4434.2  | 4651.2  | 4803.6  | 8143.3  |
| 80°   | 281.4  | 293.2  | 297.3  | 322.8  | 428.7  | 663.1  | 927.1  | 3275.2  | 3478.7  | 3513.6  | 5318.3  |
| 82.5° | 239.7  | 251.8  | 251.8  | 275.8  | 350.8  | 476.9  | 608.3  | 2243.9  | 2284.0  | 2402.0  | 3759.0  |
| 85°   | 193.0  | 202.4  | 202.4  | 214.5  | 272.1  | 356.5  | 418.1  | 1126.6  | 1114.4  | 1272.6  | 3256.5  |
| 87.5° | 137.9  | 144.8  | 151.3  | 154.1  | 194.3  | 235.6  | 251.8  | 343.1   | 226.3   | 260.0   | 2091.0  |
| 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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|       | 295°    | 305°    | 315°    | 325°    | 335°    | 345°    | 355°    | 360°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8233.3  | 8233.3  | 8233.3  | 8233.3  | 8233.3  | 8233.3  | 8233.3  | 8233.3  |
| 2.5°  | 9457.7  | 9533.9  | 9456.0  | 9400.1  | 9157.5  | 8958.0  | 8691.2  | 8554.5  |
| 5°    | 10166.1 | 10360.4 | 10294.7 | 10059.1 | 9552.5  | 8983.2  | 8336.3  | 8044.3  |
| 7.5°  | 10080.6 | 10531.9 | 10542.5 | 10102.1 | 9355.9  | 8517.2  | 7641.2  | 7226.0  |
| 10°   | 9413.4  | 9990.5  | 10155.6 | 9728.1  | 8936.5  | 7998.9  | 6994.0  | 6519.9  |
| 12.5° | 8668.5  | 9233.8  | 9359.9  | 9212.3  | 8550.9  | 7608.8  | 6589.7  | 6124.5  |
| 15°   | 8058.9  | 8312.4  | 8462.0  | 8591.0  | 8219.9  | 7453.5  | 6566.5  | 6056.4  |
| 17.5° | 7687.9  | 7659.9  | 7702.9  | 7926.3  | 7989.2  | 7631.5  | 6914.9  | 6352.4  |
| 20°   | 7554.0  | 7124.2  | 7113.2  | 7421.4  | 7880.9  | 8056.5  | 7595.4  | 6920.2  |
| 22.5° | 7627.8  | 6931.1  | 6842.7  | 7208.5  | 7938.5  | 8668.5  | 8487.6  | 7717.5  |
| 25°   | 7882.1  | 6947.3  | 6876.0  | 7230.0  | 8147.3  | 9321.0  | 9450.8  | 8748.8  |
| 27.5° | 8282.8  | 7049.1  | 6955.0  | 7318.4  | 8424.7  | 9868.9  | 10399.3 | 9748.4  |
| 30°   | 8663.2  | 7226.0  | 7109.2  | 7492.4  | 8677.8  | 10085.8 | 10980.9 | 10527.9 |
| 32.5° | 9125.5  | 7556.9  | 7351.7  | 7812.4  | 8991.3  | 10431.4 | 11499.1 | 11173.5 |
| 35°   | 9578.1  | 8028.1  | 7773.8  | 8306.7  | 9340.9  | 10861.6 | 12091.2 | 11998.8 |
| 37.5° | 10075.3 | 8644.5  | 8434.1  | 8945.9  | 9819.4  | 11267.2 | 12846.8 | 12966.0 |
| 40°   | 10605.7 | 9461.7  | 9212.3  | 9878.2  | 10561.5 | 11776.5 | 13636.0 | 13922.3 |
| 42.5° | 11140.2 | 10368.5 | 10071.2 | 10746.1 | 11377.1 | 12278.6 | 14310.8 | 14735.8 |
| 45°   | 11752.2 | 11353.2 | 11212.4 | 11942.4 | 12161.0 | 12757.1 | 14809.2 | 15337.2 |
| 47.5° | 12465.2 | 12470.4 | 12696.7 | 12988.7 | 12951.4 | 13298.1 | 15310.4 | 15874.1 |
| 50°   | 13296.9 | 13864.7 | 14364.7 | 14558.6 | 13765.7 | 13879.7 | 16005.5 | 16593.6 |
| 52.5° | 14296.2 | 15532.7 | 16151.5 | 16024.2 | 14643.3 | 14589.4 | 17106.6 | 17584.7 |
| 55°   | 15546.1 | 17298.4 | 17913.2 | 17822.0 | 15651.9 | 15556.6 | 18478.5 | 18757.1 |
| 57.5° | 16992.6 | 19009.0 | 19574.3 | 19164.3 | 16862.9 | 16617.9 | 19613.2 | 19672.0 |
| 60°   | 18264.0 | 20364.7 | 20860.3 | 20406.1 | 18084.8 | 17746.9 | 20321.7 | 20036.2 |
| 62.5° | 18971.3 | 20824.2 | 21172.5 | 20683.5 | 18921.8 | 18949.8 | 20477.0 | 19839.5 |
| 65°   | 18655.3 | 19662.7 | 19775.1 | 19734.9 | 18706.0 | 19647.7 | 19918.6 | 18929.9 |
| 67.5° | 16924.5 | 16726.2 | 16915.2 | 17176.3 | 16857.6 | 18728.8 | 18371.1 | 16948.4 |
| 70°   | 13875.6 | 12786.3 | 13163.1 | 13338.3 | 13483.1 | 16116.7 | 15945.1 | 13804.7 |
| 72.5° | 10456.9 | 8958.0  | 9255.3  | 9219.2  | 9888.7  | 12927.1 | 12400.7 | 10150.3 |
| 75°   | 7409.3  | 6073.8  | 6111.1  | 6096.5  | 6900.3  | 10113.8 | 8979.5  | 6944.5  |
| 77.5° | 5184.0  | 4400.5  | 4420.8  | 4503.5  | 4639.0  | 7627.8  | 6415.3  | 5072.9  |
| 80°   | 3564.7  | 3339.6  | 3450.8  | 3457.7  | 3215.1  | 5124.0  | 4739.6  | 4071.2  |
| 82.5° | 2655.1  | 2321.3  | 2294.6  | 2333.5  | 2519.6  | 4151.5  | 3642.2  | 2823.8  |
| 85°   | 2174.1  | 1374.4  | 1105.1  | 1385.3  | 2232.9  | 4111.4  | 2419.5  | 1489.6  |
| 87.5° | 1224.3  | 652.5   | 294.8   | 546.7   | 891.0   | 2722.0  | 699.2   | 190.2   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)