

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: P192529

Luminaire Tested: **GAN-AF-01-LED-U-5MQ-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192529  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-01-LED-U-5MQ-7030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4172.6 lumens  
Efficiency: N/A  
Efficacy: 122.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B2 - U0 - G1

Input Watts (W): 34  
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

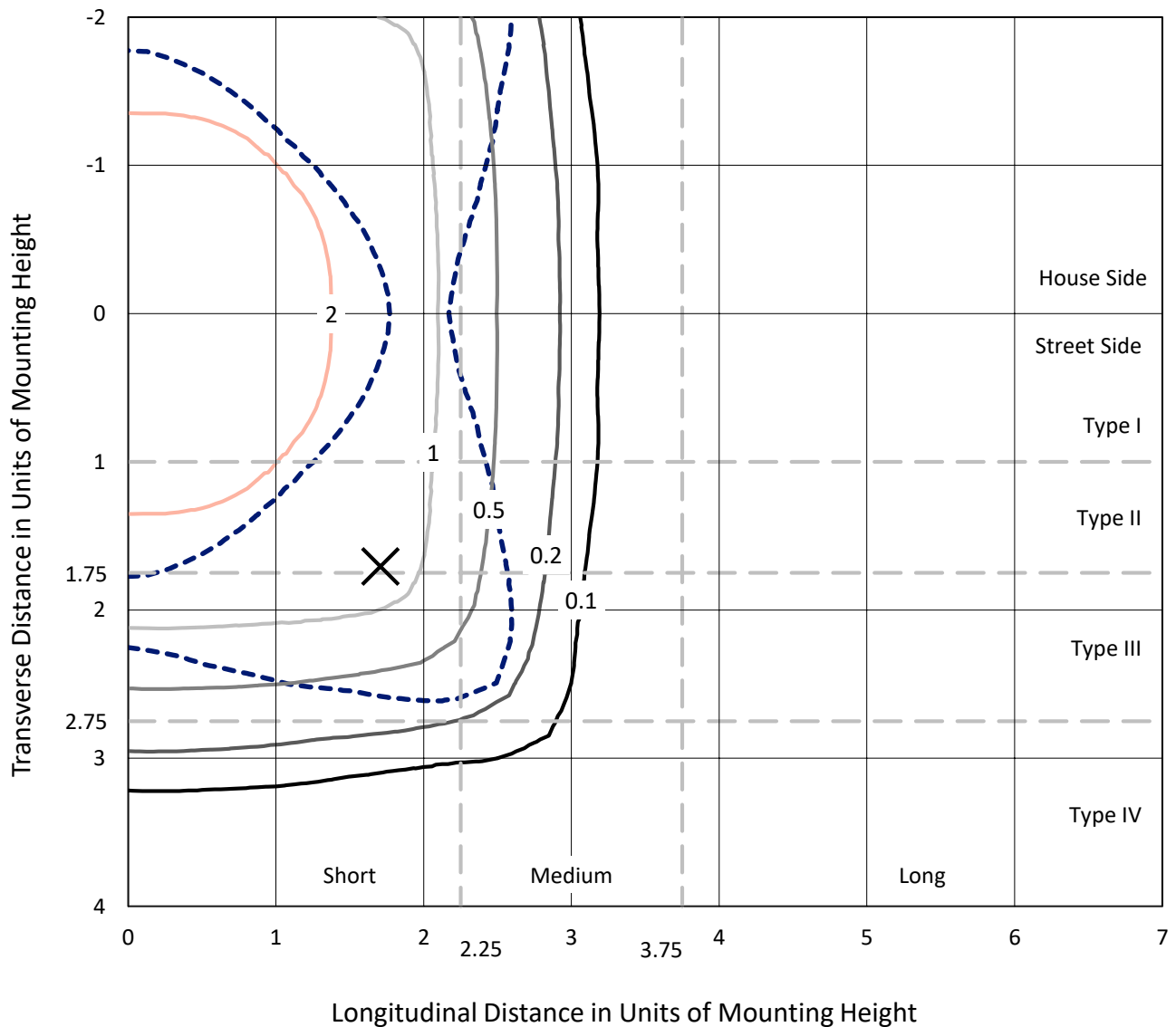


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

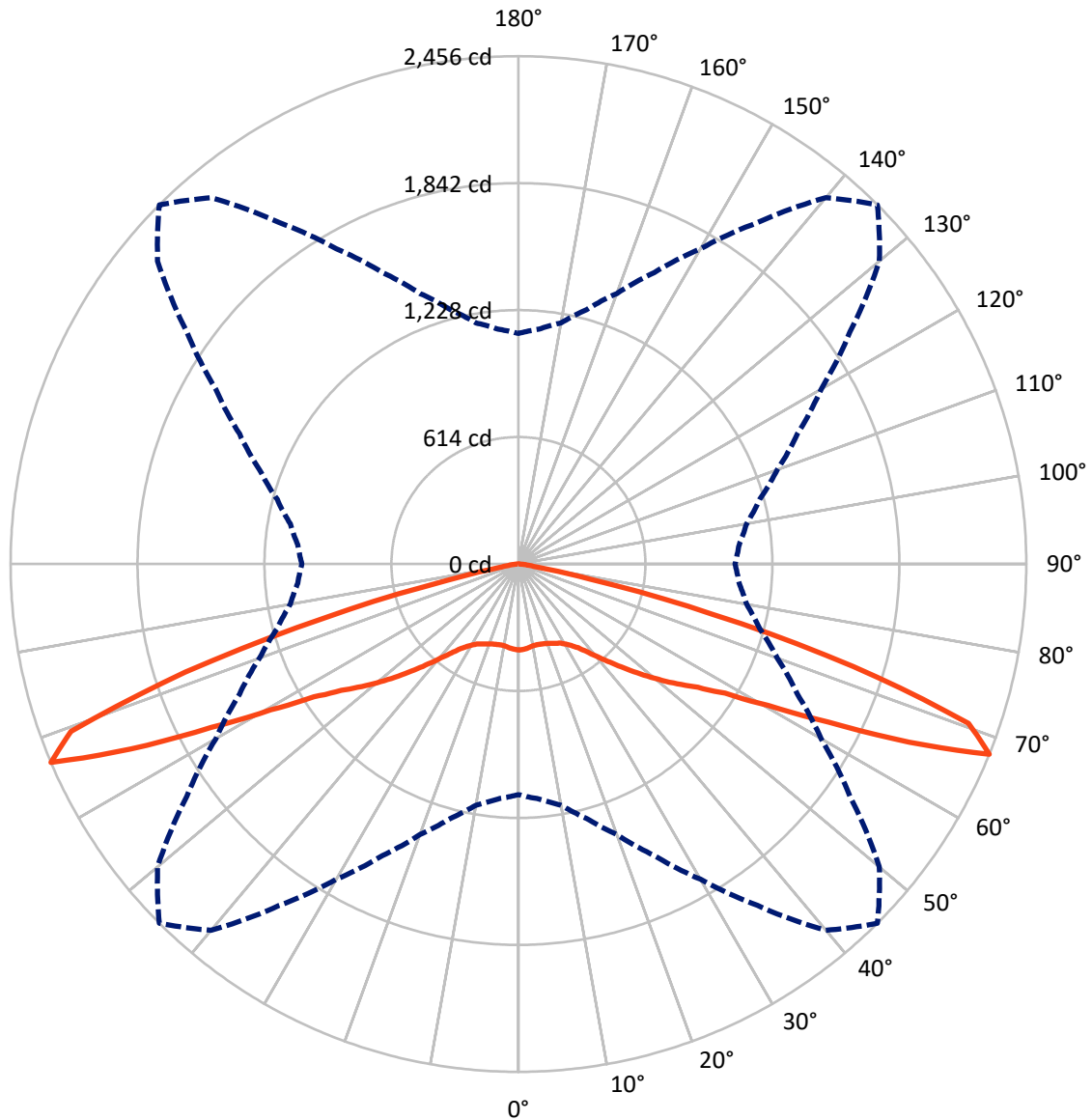


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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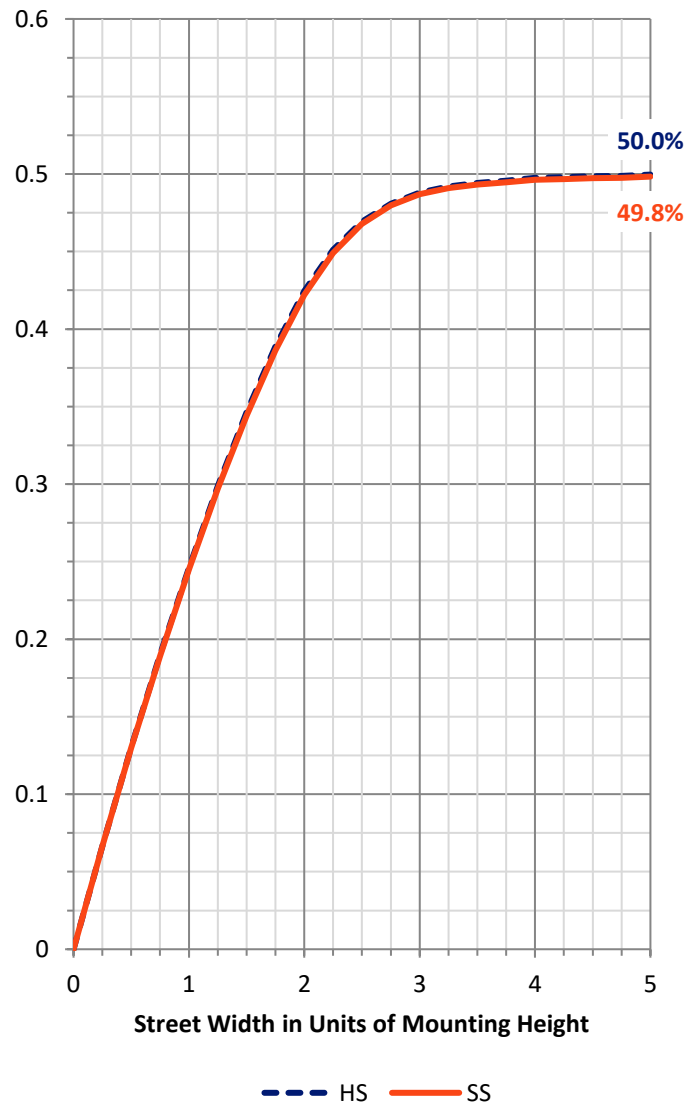
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2086.3   | 0.0    | 2086.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2086.3   | 0.0    | 2086.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4172.6   | 0.0    | 4172.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 38.9   | 0.9       |
| 10°-20°   | 112.9  | 2.7       |
| 20°-30°   | 192.0  | 4.6       |
| 30°-40°   | 313.8  | 7.5       |
| 40°-50°   | 560.3  | 13.4      |
| 50°-60°   | 944.6  | 22.6      |
| 60°-70°   | 1465.9 | 35.1      |
| 70°-80°   | 515.0  | 12.3      |
| 80°-90°   | 29.1   | 0.7       |
| 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°    | 4172.6 | 100.0     |
| 0°-180°   | 4172.6 | 100.0     |



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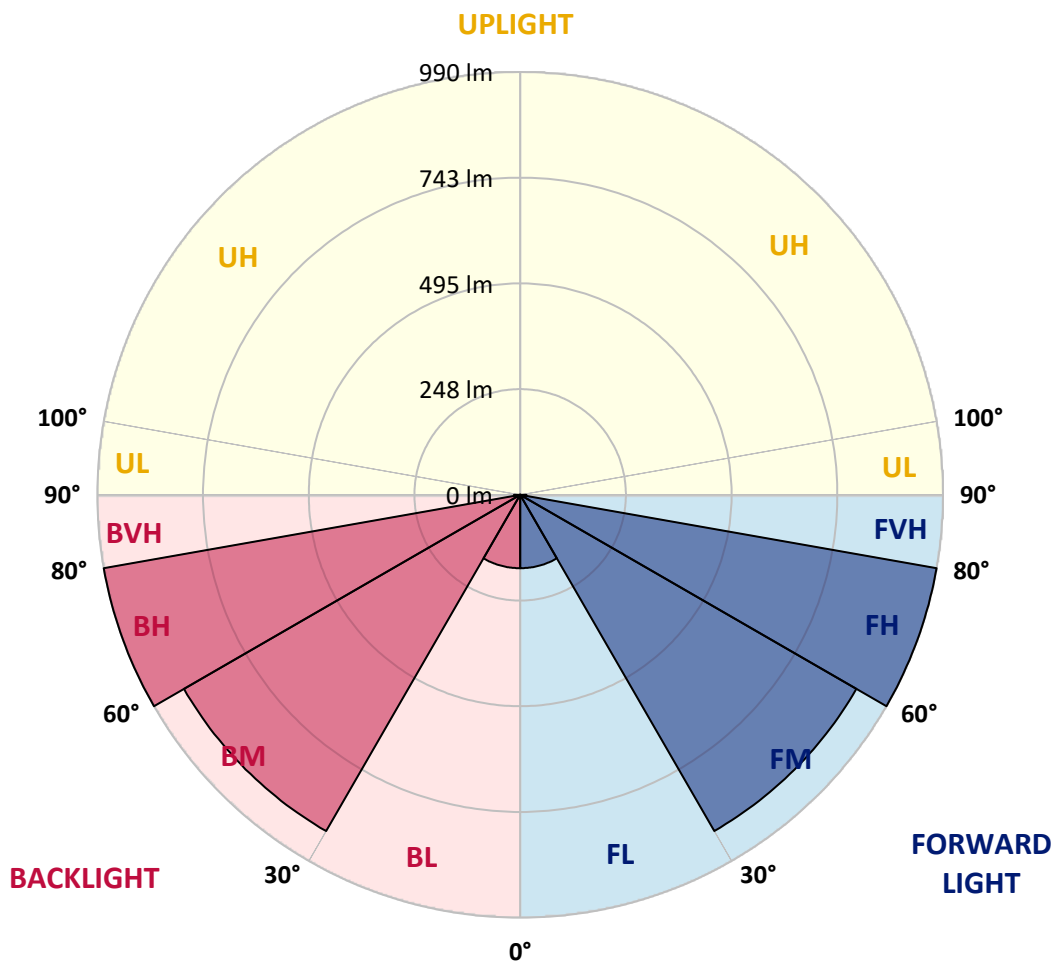
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 171.9  | 4.1       |                         |      |         |
| FM (30°-60°)   | 909.4  | 21.8      |                         |      |         |
| FH (60°-80°)   | 990.5  | 23.7      |                         |      | G1/1800 |
| FVH (80°-90°)  | 14.5   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 171.9  | 4.1       | B1/500                  |      |         |
| BM (30°-60°)   | 909.4  | 21.8      | B1/1000                 |      |         |
| BH (60°-80°)   | 990.5  | 23.7      | B2/1000                 |      | G1/1800 |
| BVH (80°-90°)  | 14.5   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 415.8  | 415.8  | 415.8  | 415.8  | 415.8  | 415.8  | 415.8  | 415.8  | 415.8  | 415.8  | 415.8  |
| 2.5°  | 414.3  | 414.6  | 414.6  | 414.6  | 414.5  | 414.5  | 414.1  | 414.5  | 414.3  | 413.6  | 413.9  |
| 5°    | 410.9  | 411.3  | 411.3  | 411.1  | 411.6  | 411.4  | 410.9  | 411.3  | 411.1  | 410.6  | 410.9  |
| 7.5°  | 405.8  | 406.5  | 406.5  | 406.2  | 406.8  | 406.6  | 406.2  | 406.5  | 406.5  | 405.8  | 405.8  |
| 10°   | 400.3  | 400.7  | 400.7  | 400.4  | 401.4  | 401.4  | 401.2  | 401.8  | 402.0  | 401.4  | 401.1  |
| 12.5° | 395.1  | 395.6  | 395.6  | 396.4  | 397.3  | 397.8  | 398.7  | 399.6  | 400.3  | 400.1  | 399.4  |
| 15°   | 392.0  | 392.5  | 393.3  | 394.1  | 395.6  | 397.0  | 398.6  | 400.3  | 401.8  | 402.2  | 401.1  |
| 17.5° | 390.0  | 390.7  | 391.8  | 393.3  | 395.3  | 397.6  | 399.9  | 402.2  | 404.3  | 405.1  | 403.7  |
| 20°   | 389.5  | 389.9  | 391.0  | 393.4  | 396.3  | 399.7  | 402.9  | 405.7  | 408.5  | 409.5  | 408.5  |
| 22.5° | 390.7  | 391.4  | 392.8  | 395.5  | 399.4  | 403.7  | 407.5  | 411.3  | 414.8  | 416.6  | 415.3  |
| 25°   | 395.8  | 396.6  | 398.4  | 401.8  | 406.0  | 410.6  | 415.0  | 419.2  | 422.5  | 424.3  | 423.3  |
| 27.5° | 405.5  | 406.5  | 408.5  | 412.0  | 416.6  | 421.5  | 426.3  | 429.8  | 432.5  | 433.1  | 431.9  |
| 30°   | 419.9  | 422.0  | 424.5  | 428.3  | 433.6  | 437.9  | 442.7  | 445.8  | 449.0  | 449.0  | 448.1  |
| 32.5° | 442.3  | 444.3  | 447.1  | 450.7  | 454.9  | 459.6  | 463.8  | 466.4  | 470.0  | 470.2  | 467.8  |
| 35°   | 476.0  | 476.8  | 479.1  | 481.4  | 485.3  | 489.3  | 493.0  | 494.7  | 497.5  | 497.7  | 495.6  |
| 37.5° | 520.2  | 520.4  | 521.9  | 522.7  | 526.2  | 530.6  | 534.1  | 535.2  | 537.9  | 537.4  | 535.4  |
| 40°   | 571.9  | 572.7  | 573.4  | 574.4  | 578.2  | 582.4  | 586.0  | 586.6  | 589.5  | 588.9  | 586.1  |
| 42.5° | 631.5  | 631.8  | 635.2  | 636.9  | 640.4  | 642.5  | 647.1  | 647.6  | 651.0  | 649.5  | 646.5  |
| 45°   | 698.5  | 701.9  | 704.9  | 708.4  | 712.1  | 714.5  | 718.3  | 717.5  | 719.8  | 717.5  | 715.7  |
| 47.5° | 768.8  | 771.4  | 778.3  | 783.7  | 789.6  | 791.7  | 796.9  | 794.7  | 796.9  | 793.7  | 793.1  |
| 50°   | 846.4  | 850.8  | 856.8  | 862.9  | 869.2  | 872.7  | 879.4  | 876.6  | 879.6  | 876.6  | 874.8  |
| 52.5° | 922.8  | 923.9  | 937.0  | 945.9  | 954.8  | 958.9  | 962.9  | 961.6  | 961.7  | 961.6  | 959.9  |
| 55°   | 995.4  | 998.0  | 1011.0 | 1023.3 | 1038.7 | 1050.0 | 1056.9 | 1056.1 | 1054.5 | 1052.7 | 1049.8 |
| 57.5° | 1077.1 | 1079.7 | 1094.7 | 1109.8 | 1127.3 | 1143.4 | 1157.5 | 1171.8 | 1177.4 | 1178.9 | 1172.6 |
| 60°   | 1187.5 | 1187.4 | 1207.4 | 1225.8 | 1250.7 | 1274.7 | 1305.4 | 1336.7 | 1372.6 | 1389.2 | 1367.2 |
| 62.5° | 1300.0 | 1304.7 | 1333.4 | 1366.1 | 1417.4 | 1467.6 | 1524.1 | 1579.8 | 1636.6 | 1682.8 | 1633.8 |
| 65°   | 1286.6 | 1304.2 | 1347.0 | 1420.9 | 1515.9 | 1628.7 | 1750.8 | 1880.0 | 1996.6 | 2076.8 | 1986.8 |
| 67.5° | 1115.1 | 1140.2 | 1183.8 | 1273.5 | 1392.3 | 1555.1 | 1759.9 | 2015.4 | 2312.3 | 2455.7 | 2277.8 |
| 70°   | 808.2  | 836.6  | 882.3  | 970.0  | 1087.5 | 1242.3 | 1464.8 | 1771.5 | 2164.5 | 2309.2 | 2113.3 |
| 72.5° | 402.2  | 417.6  | 445.8  | 501.6  | 590.6  | 716.0  | 918.0  | 1212.8 | 1560.4 | 1693.2 | 1514.3 |
| 75°   | 136.6  | 143.6  | 148.5  | 166.7  | 194.9  | 244.3  | 344.6  | 530.2  | 808.8  | 969.5  | 797.3  |
| 77.5° | 78.8   | 79.1   | 82.3   | 85.5   | 90.3   | 95.7   | 109.2  | 143.3  | 247.9  | 352.2  | 256.5  |
| 80°   | 51.1   | 50.8   | 53.5   | 56.0   | 59.3   | 62.0   | 62.8   | 66.4   | 76.6   | 90.8   | 81.2   |
| 82.5° | 26.4   | 29.7   | 35.7   | 39.0   | 45.2   | 46.2   | 44.7   | 43.3   | 45.9   | 47.6   | 48.7   |
| 85°   | 14.5   | 12.7   | 19.0   | 24.6   | 27.2   | 27.7   | 27.7   | 26.1   | 27.1   | 26.4   | 28.7   |
| 87.5° | 6.7    | 6.1    | 7.4    | 12.1   | 12.9   | 10.9   | 11.5   | 10.2   | 7.3    | 7.1    | 8.0    |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 415.8  | 415.8  | 415.8  | 415.8  | 415.8  | 415.8  | 415.8  | 415.8  |
| 2.5°  | 413.9  | 414.1  | 414.1  | 414.6  | 414.8  | 415.3  | 415.6  | 415.8  |
| 5°    | 410.6  | 411.3  | 410.9  | 411.4  | 411.4  | 411.8  | 411.8  | 412.0  |
| 7.5°  | 405.8  | 406.5  | 406.5  | 406.5  | 406.2  | 406.8  | 406.8  | 406.8  |
| 10°   | 400.9  | 401.2  | 401.1  | 400.7  | 400.3  | 400.9  | 400.7  | 400.4  |
| 12.5° | 399.4  | 398.4  | 397.6  | 397.1  | 396.4  | 396.6  | 396.1  | 396.1  |
| 15°   | 400.3  | 398.6  | 397.1  | 396.6  | 395.8  | 395.5  | 395.1  | 395.3  |
| 17.5° | 402.7  | 400.7  | 398.9  | 397.9  | 397.0  | 396.4  | 395.6  | 395.8  |
| 20°   | 407.2  | 404.7  | 402.2  | 400.3  | 398.6  | 397.6  | 397.0  | 396.8  |
| 22.5° | 413.6  | 410.0  | 406.5  | 403.5  | 401.2  | 399.9  | 399.4  | 398.9  |
| 25°   | 421.2  | 417.2  | 412.9  | 409.7  | 407.4  | 405.7  | 404.5  | 404.5  |
| 27.5° | 430.6  | 427.3  | 423.5  | 419.7  | 417.6  | 415.8  | 415.0  | 414.6  |
| 30°   | 446.4  | 443.3  | 440.2  | 436.5  | 433.9  | 432.1  | 430.8  | 429.6  |
| 32.5° | 466.4  | 464.1  | 461.5  | 458.8  | 456.2  | 454.0  | 451.9  | 450.9  |
| 35°   | 494.8  | 493.0  | 491.2  | 488.2  | 487.2  | 485.8  | 484.7  | 483.8  |
| 37.5° | 534.1  | 533.3  | 533.3  | 530.0  | 529.3  | 528.6  | 527.5  | 527.7  |
| 40°   | 585.4  | 586.1  | 585.3  | 584.1  | 583.6  | 582.1  | 582.1  | 583.3  |
| 42.5° | 646.3  | 646.9  | 649.0  | 647.1  | 649.1  | 647.3  | 646.0  | 647.1  |
| 45°   | 716.8  | 719.0  | 723.2  | 721.3  | 722.6  | 719.4  | 715.3  | 715.5  |
| 47.5° | 796.2  | 798.0  | 799.8  | 798.4  | 798.6  | 793.2  | 787.9  | 786.5  |
| 50°   | 878.5  | 879.2  | 880.2  | 878.2  | 878.7  | 872.7  | 866.5  | 866.8  |
| 52.5° | 959.9  | 963.4  | 967.3  | 962.1  | 960.9  | 954.3  | 945.6  | 942.2  |
| 55°   | 1052.9 | 1058.0 | 1053.7 | 1044.6 | 1035.6 | 1026.6 | 1015.2 | 1013.4 |
| 57.5° | 1167.7 | 1158.8 | 1145.0 | 1127.9 | 1115.4 | 1102.8 | 1091.3 | 1086.5 |
| 60°   | 1327.3 | 1294.0 | 1269.1 | 1243.8 | 1227.8 | 1212.3 | 1197.2 | 1194.9 |
| 62.5° | 1552.9 | 1495.5 | 1445.8 | 1393.5 | 1350.7 | 1317.3 | 1290.7 | 1283.1 |
| 65°   | 1835.8 | 1700.1 | 1582.5 | 1472.7 | 1377.3 | 1305.4 | 1260.1 | 1240.2 |
| 67.5° | 1957.5 | 1689.5 | 1487.9 | 1332.1 | 1207.4 | 1120.2 | 1071.3 | 1046.9 |
| 70°   | 1720.1 | 1401.1 | 1181.8 | 1025.8 | 912.2  | 819.3  | 774.9  | 749.0  |
| 72.5° | 1183.4 | 891.3  | 704.8  | 575.2  | 484.6  | 406.8  | 376.1  | 373.7  |
| 75°   | 531.3  | 352.0  | 242.5  | 187.0  | 157.4  | 136.8  | 130.4  | 125.6  |
| 77.5° | 148.7  | 110.0  | 98.0   | 91.7   | 85.5   | 78.4   | 75.8   | 76.4   |
| 80°   | 72.3   | 68.3   | 65.7   | 61.6   | 56.0   | 50.0   | 47.4   | 48.5   |
| 82.5° | 48.0   | 47.4   | 49.1   | 46.2   | 38.1   | 32.4   | 27.2   | 24.9   |
| 85°   | 29.2   | 29.5   | 30.1   | 30.3   | 25.6   | 18.0   | 12.2   | 13.7   |
| 87.5° | 11.5   | 13.2   | 14.4   | 15.0   | 13.9   | 8.6    | 6.9    | 7.1    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)