

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: P200545

Luminaire Tested: **GAW-AF-01-LED-E1-5MQ-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200545  
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: GAW-AF-01-LED-E1-5MQ-8030-1200  
Description: GALLEON WALL LUMINAIRE  
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5978 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

Input Watts (W): 67  
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



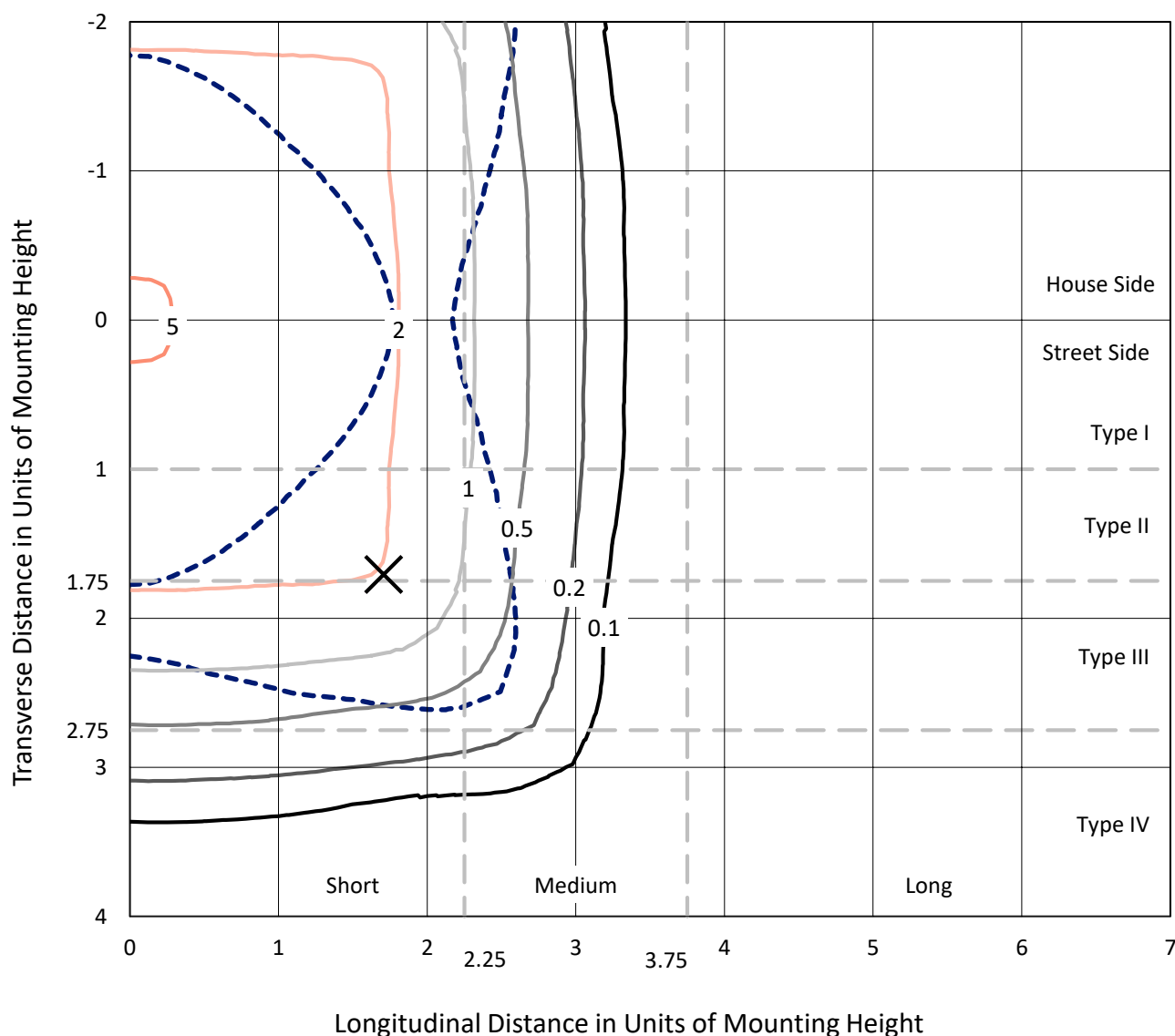
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



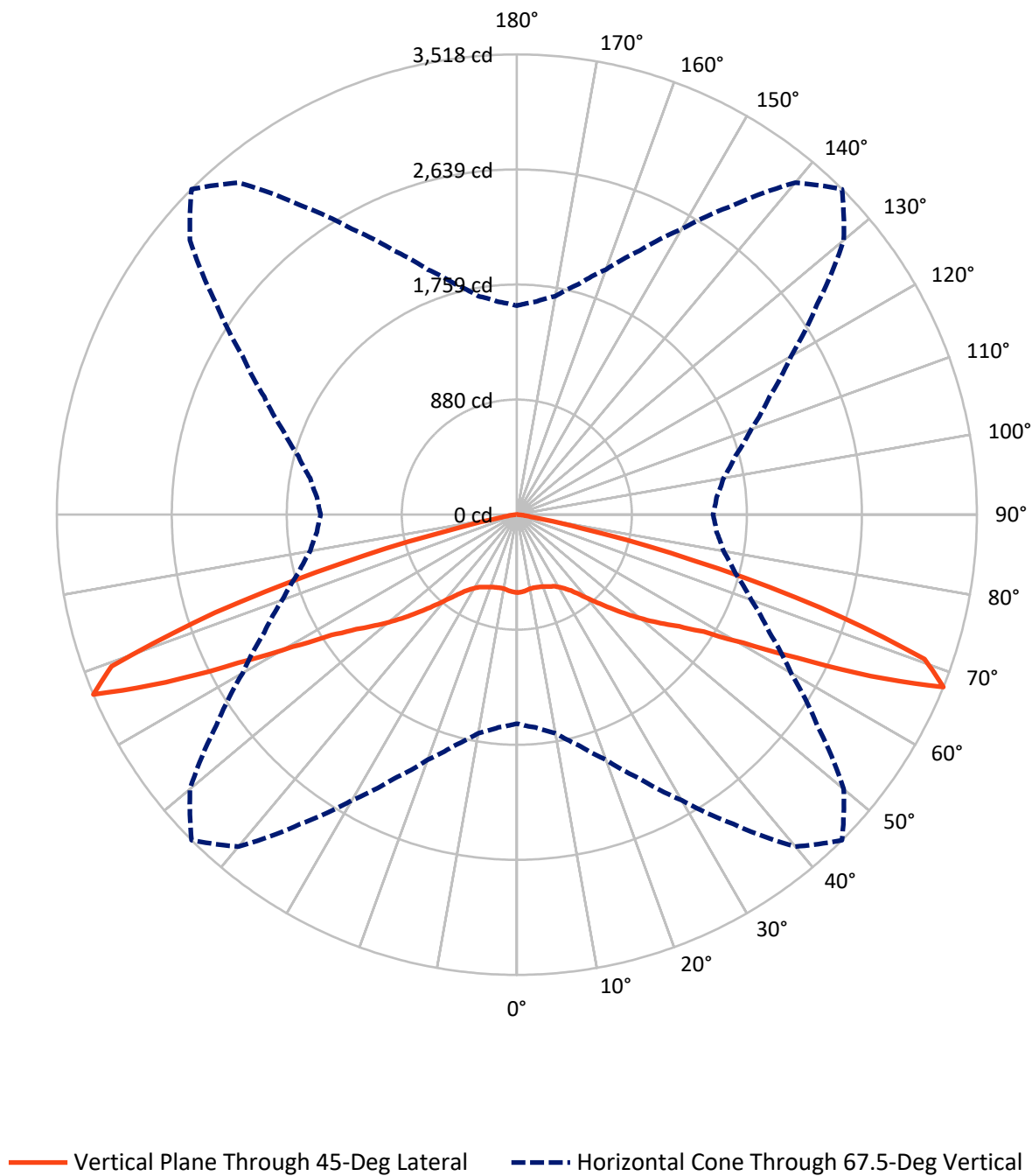
Based on 10 foot mounting height. Maximum calculated value = 6 fc

Type V - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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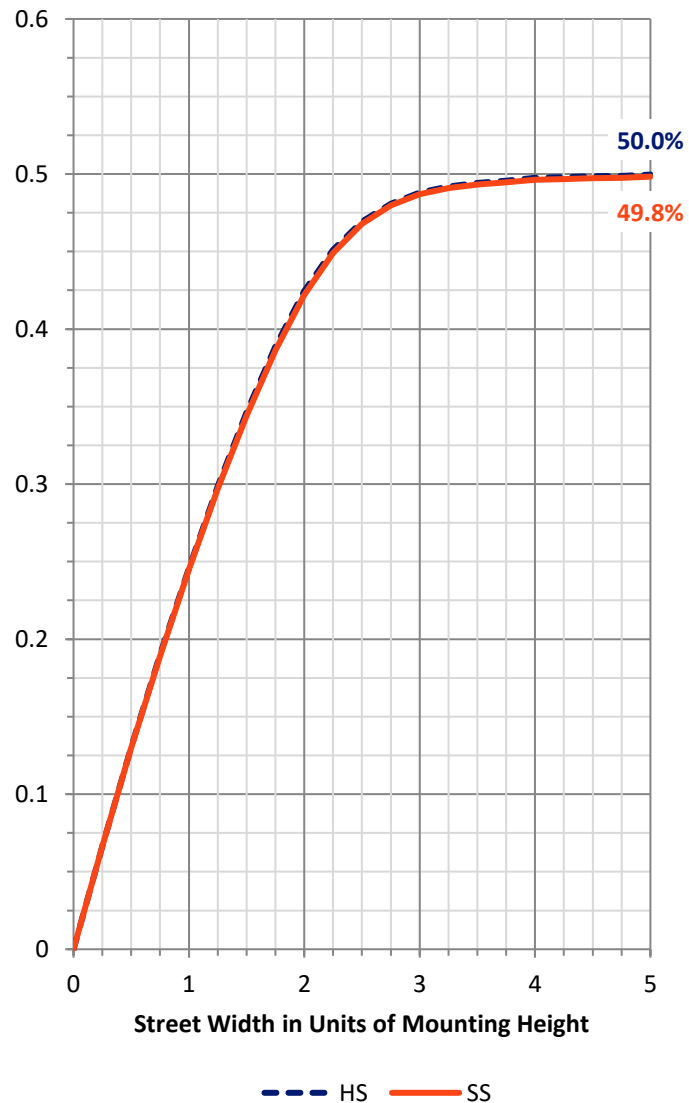
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2989.0   | 0.0    | 2989.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2989.0   | 0.0    | 2989.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5978.0   | 0.0    | 5978.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 55.8   | 0.9       |
| 10°-20°   | 161.8  | 2.7       |
| 20°-30°   | 275.1  | 4.6       |
| 30°-40°   | 449.6  | 7.5       |
| 40°-50°   | 802.7  | 13.4      |
| 50°-60°   | 1353.3 | 22.6      |
| 60°-70°   | 2100.2 | 35.1      |
| 70°-80°   | 737.9  | 12.3      |
| 80°-90°   | 41.7   | 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°    | 5978.0 | 100.0     |
| 0°-180°   | 5978.0 | 100.0     |

**Coefficient of Utilization**



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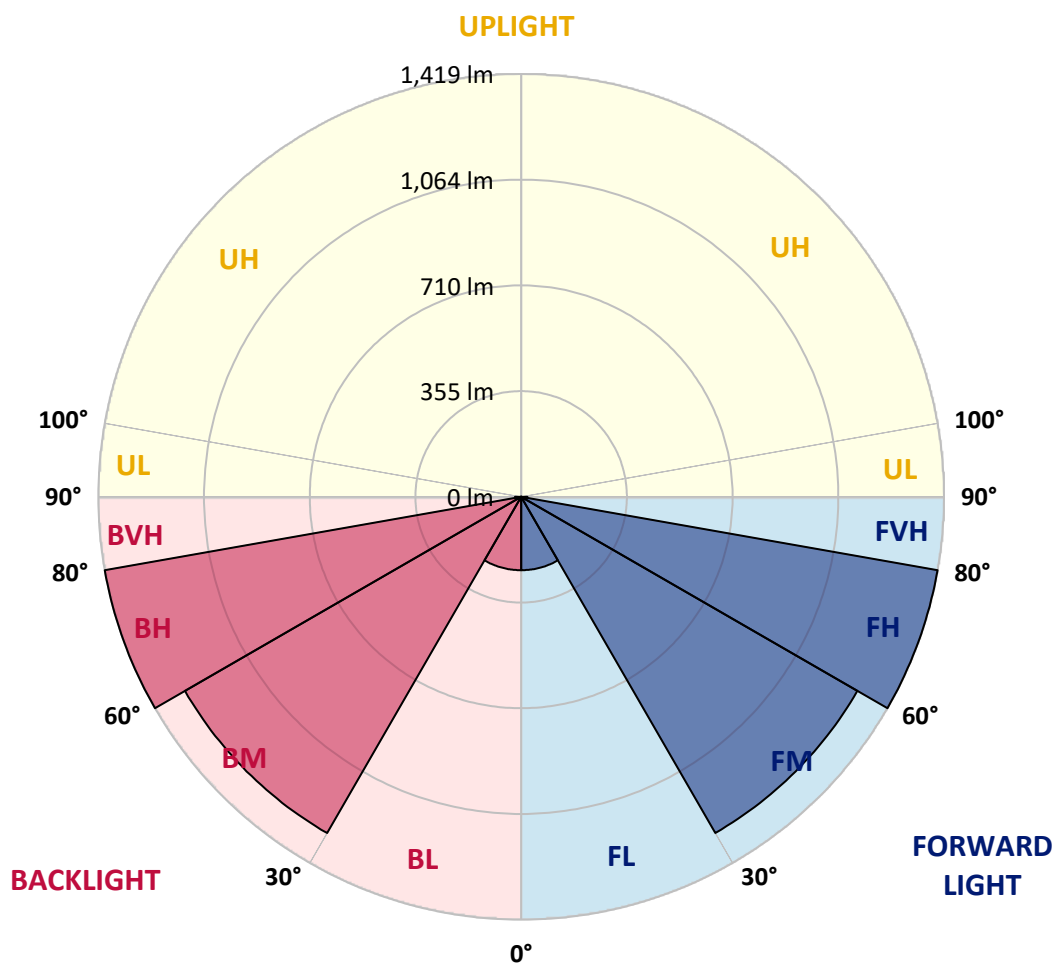
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 246.3  | 4.1       |                         |      |         |
| FM   | (30°-60°)   | 1302.8 | 21.8      |                         |      |         |
| FH   | (60°-80°)   | 1419.0 | 23.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 20.8   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 246.3  | 4.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1302.8 | 21.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1419.0 | 23.7      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 20.8   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 595.7  | 595.7  | 595.7  | 595.7  | 595.7  | 595.7  | 595.7  | 595.7  | 595.7  | 595.7  | 595.7  |
| 2.5°  | 593.5  | 594.1  | 594.1  | 594.1  | 593.8  | 593.8  | 593.3  | 593.8  | 593.5  | 592.7  | 593.0  |
| 5°    | 588.6  | 589.1  | 589.1  | 588.9  | 589.7  | 589.4  | 588.6  | 589.1  | 588.9  | 588.3  | 588.6  |
| 7.5°  | 581.4  | 582.3  | 582.3  | 582.0  | 582.8  | 582.5  | 582.0  | 582.3  | 582.3  | 581.4  | 581.4  |
| 10°   | 573.5  | 574.0  | 574.0  | 573.7  | 575.1  | 575.1  | 574.8  | 575.7  | 575.9  | 575.1  | 574.6  |
| 12.5° | 566.0  | 566.9  | 566.9  | 568.0  | 569.3  | 569.9  | 571.3  | 572.4  | 573.5  | 573.2  | 572.1  |
| 15°   | 561.6  | 562.2  | 563.3  | 564.7  | 566.9  | 568.8  | 571.0  | 573.5  | 575.7  | 576.2  | 574.6  |
| 17.5° | 558.9  | 559.7  | 561.4  | 563.3  | 566.3  | 569.6  | 572.9  | 576.2  | 579.2  | 580.3  | 578.4  |
| 20°   | 558.1  | 558.6  | 560.3  | 563.6  | 567.7  | 572.6  | 577.3  | 581.2  | 585.3  | 586.7  | 585.3  |
| 22.5° | 559.7  | 560.8  | 562.7  | 566.6  | 572.1  | 578.4  | 583.9  | 589.1  | 594.4  | 596.8  | 594.9  |
| 25°   | 567.1  | 568.2  | 570.7  | 575.7  | 581.7  | 588.3  | 594.6  | 600.7  | 605.4  | 607.8  | 606.5  |
| 27.5° | 580.9  | 582.3  | 585.3  | 590.2  | 596.8  | 604.0  | 610.9  | 615.8  | 619.7  | 620.5  | 618.8  |
| 30°   | 601.5  | 604.5  | 608.1  | 613.6  | 621.3  | 627.3  | 634.2  | 638.6  | 643.3  | 643.3  | 641.9  |
| 32.5° | 633.7  | 636.7  | 640.5  | 645.8  | 651.8  | 658.4  | 664.5  | 668.3  | 673.3  | 673.5  | 670.2  |
| 35°   | 681.8  | 683.2  | 686.5  | 689.8  | 695.3  | 701.0  | 706.2  | 708.7  | 712.8  | 713.1  | 710.1  |
| 37.5° | 745.3  | 745.6  | 747.8  | 748.9  | 753.8  | 760.1  | 765.1  | 766.7  | 770.6  | 770.0  | 767.0  |
| 40°   | 819.2  | 820.6  | 821.4  | 823.1  | 828.3  | 834.4  | 839.6  | 840.4  | 844.5  | 843.7  | 839.9  |
| 42.5° | 904.7  | 905.3  | 910.0  | 912.4  | 917.4  | 920.4  | 927.0  | 927.8  | 932.8  | 930.6  | 926.2  |
| 45°   | 1000.7 | 1005.6 | 1010.0 | 1015.0 | 1020.2 | 1023.8 | 1029.0 | 1027.9 | 1031.2 | 1027.9 | 1025.4 |
| 47.5° | 1101.6 | 1105.1 | 1115.0 | 1122.7 | 1131.3 | 1134.3 | 1141.7 | 1138.4 | 1141.7 | 1137.0 | 1136.2 |
| 50°   | 1212.6 | 1219.0 | 1227.5 | 1236.3 | 1245.3 | 1250.3 | 1259.9 | 1255.8 | 1260.2 | 1255.8 | 1253.3 |
| 52.5° | 1322.0 | 1323.7 | 1342.4 | 1355.3 | 1368.0 | 1373.7 | 1379.5 | 1377.6 | 1377.9 | 1377.6 | 1375.1 |
| 55°   | 1426.0 | 1429.8 | 1448.5 | 1466.1 | 1488.1 | 1504.3 | 1514.2 | 1513.1 | 1510.6 | 1508.2 | 1504.0 |
| 57.5° | 1543.1 | 1546.9 | 1568.4 | 1590.1 | 1615.1 | 1638.2 | 1658.3 | 1678.9 | 1686.9 | 1689.1 | 1680.0 |
| 60°   | 1701.4 | 1701.2 | 1729.7 | 1756.1 | 1791.9 | 1826.2 | 1870.2 | 1915.0 | 1966.4 | 1990.4 | 1958.7 |
| 62.5° | 1862.5 | 1869.1 | 1910.4 | 1957.1 | 2030.8 | 2102.5 | 2183.6 | 2263.3 | 2344.7 | 2411.0 | 2340.6 |
| 65°   | 1843.3 | 1868.6 | 1929.9 | 2035.7 | 2171.8 | 2333.4 | 2508.3 | 2693.3 | 2860.5 | 2975.4 | 2846.4 |
| 67.5° | 1597.5 | 1633.5 | 1695.9 | 1824.6 | 1994.8 | 2227.9 | 2521.5 | 2887.4 | 3312.7 | 3518.3 | 3263.5 |
| 70°   | 1157.9 | 1198.6 | 1264.0 | 1389.7 | 1558.2 | 1779.8 | 2098.7 | 2538.0 | 3101.0 | 3308.3 | 3027.6 |
| 72.5° | 576.2  | 598.2  | 638.6  | 718.6  | 846.2  | 1026.0 | 1315.2 | 1737.4 | 2235.6 | 2425.8 | 2169.3 |
| 75°   | 195.7  | 205.9  | 212.8  | 238.9  | 279.3  | 350.0  | 493.7  | 759.6  | 1158.8 | 1389.1 | 1142.3 |
| 77.5° | 113.0  | 113.3  | 117.9  | 122.6  | 129.5  | 137.2  | 156.4  | 205.4  | 355.2  | 504.5  | 367.6  |
| 80°   | 73.1   | 72.9   | 76.7   | 80.3   | 84.9   | 88.8   | 89.9   | 95.1   | 109.7  | 130.0  | 116.3  |
| 82.5° | 37.9   | 42.6   | 51.1   | 55.8   | 64.6   | 66.3   | 64.1   | 62.1   | 65.7   | 68.2   | 69.8   |
| 85°   | 20.9   | 18.1   | 27.2   | 35.2   | 39.0   | 39.6   | 39.6   | 37.4   | 38.8   | 37.9   | 41.2   |
| 87.5° | 9.6    | 8.8    | 10.7   | 17.3   | 18.4   | 15.7   | 16.5   | 14.6   | 10.4   | 10.2   | 11.5   |
| 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°    | 595.7  | 595.7  | 595.7  | 595.7  | 595.7  | 595.7  | 595.7  | 595.7  |
| 2.5°  | 593.0  | 593.3  | 593.3  | 594.1  | 594.4  | 594.9  | 595.5  | 595.7  |
| 5°    | 588.3  | 589.1  | 588.6  | 589.4  | 589.4  | 590.0  | 590.0  | 590.2  |
| 7.5°  | 581.4  | 582.3  | 582.3  | 582.3  | 582.0  | 582.8  | 582.8  | 582.8  |
| 10°   | 574.3  | 574.8  | 574.6  | 574.0  | 573.5  | 574.3  | 574.0  | 573.7  |
| 12.5° | 572.1  | 570.7  | 569.6  | 569.1  | 568.0  | 568.2  | 567.4  | 567.4  |
| 15°   | 573.5  | 571.0  | 569.1  | 568.2  | 567.1  | 566.6  | 566.0  | 566.3  |
| 17.5° | 577.0  | 574.0  | 571.5  | 570.2  | 568.8  | 568.0  | 566.9  | 567.1  |
| 20°   | 583.4  | 579.8  | 576.2  | 573.5  | 571.0  | 569.6  | 568.8  | 568.5  |
| 22.5° | 592.7  | 587.5  | 582.3  | 578.1  | 574.8  | 572.9  | 572.1  | 571.5  |
| 25°   | 603.4  | 597.7  | 591.6  | 586.9  | 583.6  | 581.2  | 579.5  | 579.5  |
| 27.5° | 616.9  | 612.2  | 606.7  | 601.2  | 598.2  | 595.7  | 594.6  | 594.1  |
| 30°   | 639.4  | 635.0  | 630.6  | 625.4  | 621.6  | 619.1  | 617.2  | 615.5  |
| 32.5° | 668.3  | 664.7  | 661.2  | 657.3  | 653.7  | 650.4  | 647.4  | 646.0  |
| 35°   | 709.0  | 706.2  | 703.8  | 699.4  | 698.0  | 696.1  | 694.4  | 693.1  |
| 37.5° | 765.1  | 764.0  | 764.0  | 759.3  | 758.2  | 757.4  | 755.7  | 756.0  |
| 40°   | 838.8  | 839.9  | 838.5  | 836.8  | 836.0  | 833.8  | 833.8  | 835.7  |
| 42.5° | 925.9  | 926.7  | 929.8  | 927.0  | 930.0  | 927.3  | 925.6  | 927.0  |
| 45°   | 1027.1 | 1030.1 | 1036.1 | 1033.4 | 1035.3 | 1030.6 | 1024.9 | 1025.1 |
| 47.5° | 1140.6 | 1143.4 | 1145.8 | 1143.9 | 1144.2 | 1136.5 | 1128.8 | 1126.9 |
| 50°   | 1258.5 | 1259.6 | 1261.0 | 1258.3 | 1258.8 | 1250.3 | 1241.5 | 1241.8 |
| 52.5° | 1375.1 | 1380.3 | 1385.8 | 1378.4 | 1376.8 | 1367.1 | 1354.8 | 1349.8 |
| 55°   | 1508.4 | 1515.9 | 1509.5 | 1496.6 | 1483.7 | 1470.8 | 1454.6 | 1451.8 |
| 57.5° | 1672.8 | 1660.2 | 1640.4 | 1615.9 | 1598.1 | 1579.9 | 1563.4 | 1556.5 |
| 60°   | 1901.6 | 1854.0 | 1818.3 | 1782.0 | 1759.2 | 1736.9 | 1715.2 | 1711.9 |
| 62.5° | 2224.9 | 2142.7 | 2071.5 | 1996.4 | 1935.1 | 1887.3 | 1849.1 | 1838.3 |
| 65°   | 2630.1 | 2435.7 | 2267.2 | 2109.9 | 1973.3 | 1870.2 | 1805.3 | 1776.8 |
| 67.5° | 2804.4 | 2420.6 | 2131.7 | 1908.4 | 1729.7 | 1604.9 | 1534.8 | 1499.9 |
| 70°   | 2464.3 | 2007.4 | 1693.2 | 1469.7 | 1306.9 | 1173.9 | 1110.4 | 1073.0 |
| 72.5° | 1695.4 | 1277.0 | 1009.7 | 824.2  | 694.2  | 582.8  | 538.8  | 535.5  |
| 75°   | 761.2  | 504.2  | 347.5  | 267.8  | 225.4  | 196.0  | 186.9  | 180.1  |
| 77.5° | 213.1  | 157.5  | 140.5  | 131.4  | 122.6  | 112.4  | 108.6  | 109.4  |
| 80°   | 103.6  | 97.9   | 94.0   | 88.2   | 80.3   | 71.8   | 67.9   | 69.6   |
| 82.5° | 68.7   | 67.9   | 70.4   | 66.3   | 54.7   | 46.5   | 39.0   | 35.7   |
| 85°   | 41.8   | 42.3   | 43.2   | 43.4   | 36.8   | 25.8   | 17.6   | 19.8   |
| 87.5° | 16.5   | 19.0   | 20.6   | 21.4   | 20.1   | 12.4   | 9.9    | 10.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)