

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: P200220

Luminaire Tested: **GAW-AF-02-LED-E1-5MQ-7050-600**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P200220  
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-02-LED-E1-5MQ-7050-600  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 8598 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 66  
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



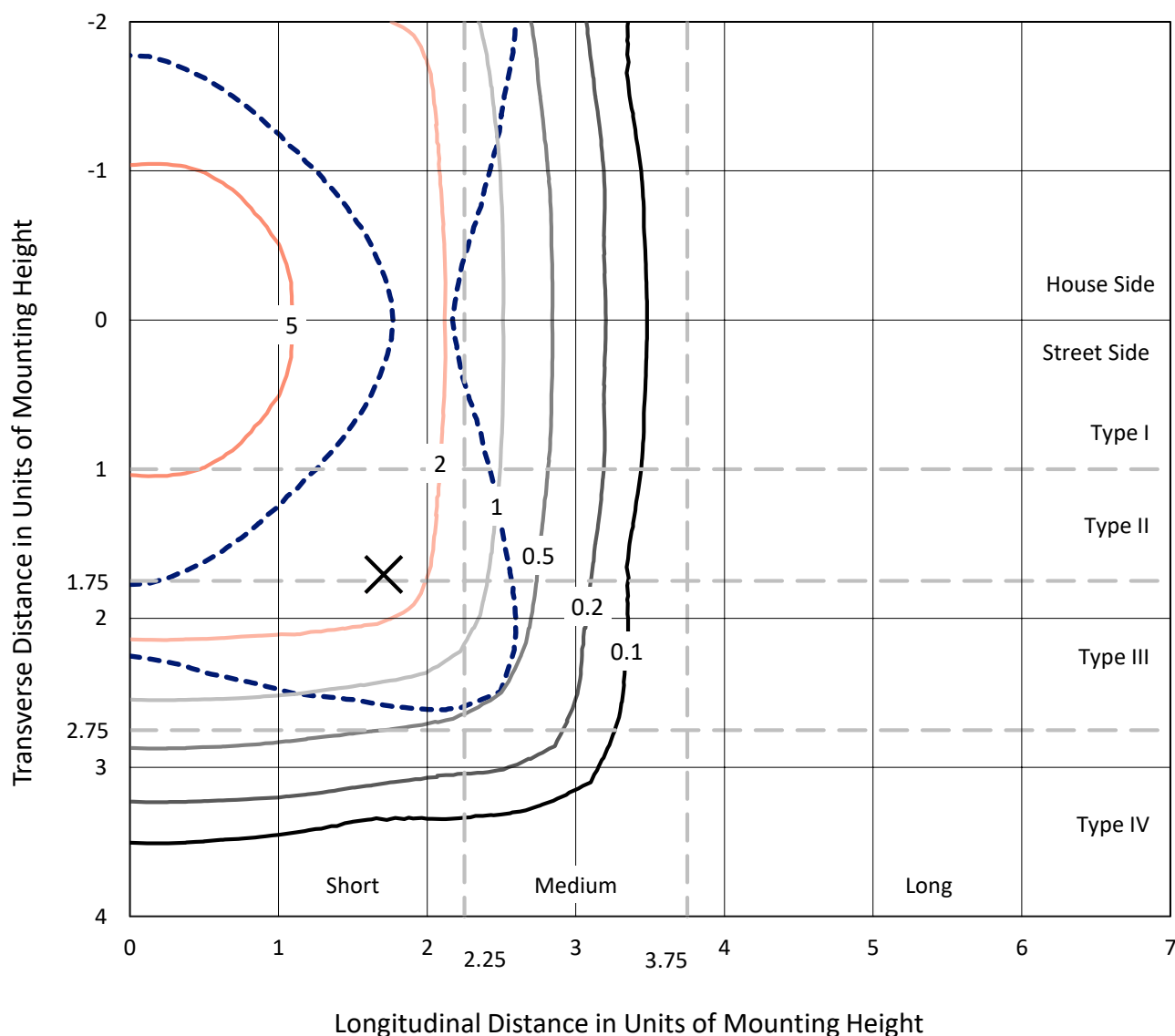
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

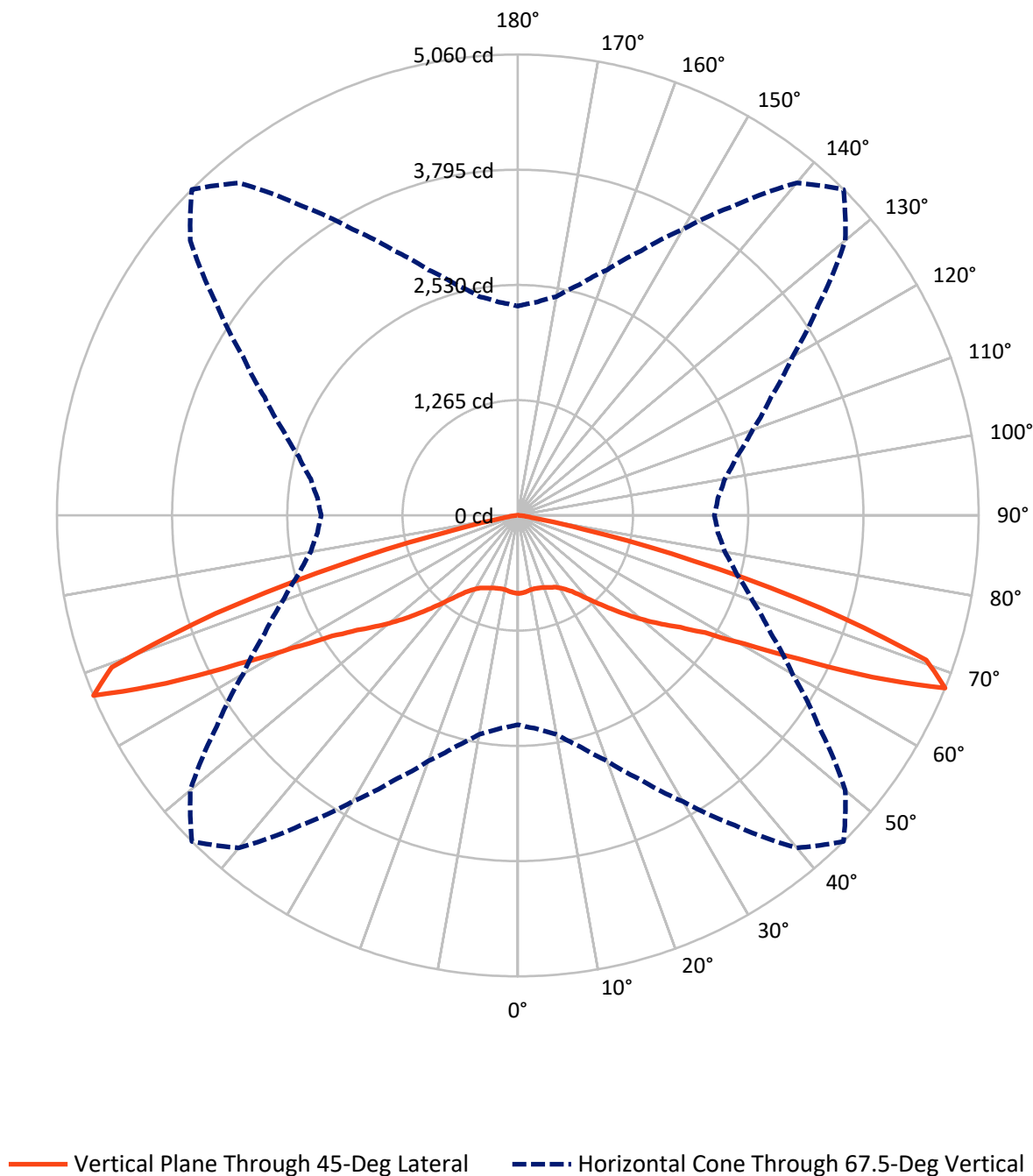


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc  
 Type V - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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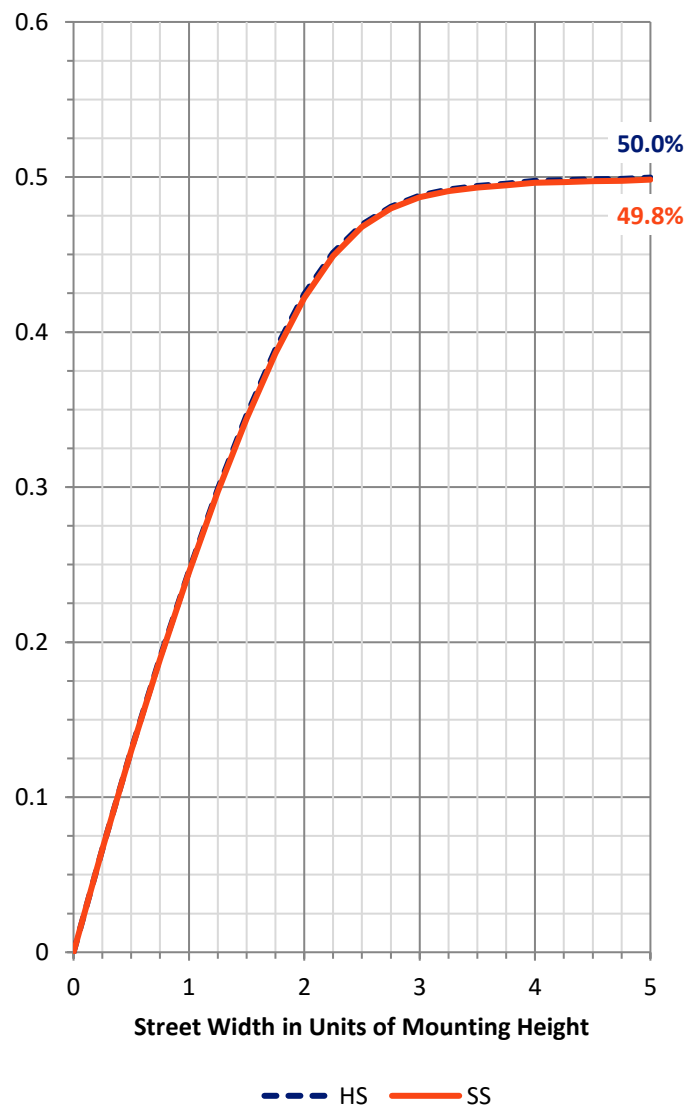
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4299.0   | 0.0    | 4299.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4299.0   | 0.0    | 4299.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8598.0   | 0.0    | 8598.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 80.2   | 0.9       |
| 10°-20°   | 232.7  | 2.7       |
| 20°-30°   | 395.6  | 4.6       |
| 30°-40°   | 646.7  | 7.5       |
| 40°-50°   | 1154.5 | 13.4      |
| 50°-60°   | 1946.5 | 22.6      |
| 60°-70°   | 3020.6 | 35.1      |
| 70°-80°   | 1061.3 | 12.3      |
| 80°-90°   | 60.0   | 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°    | 8598.0 | 100.0     |
| 0°-180°   | 8598.0 | 100.0     |

**Coefficient of Utilization**



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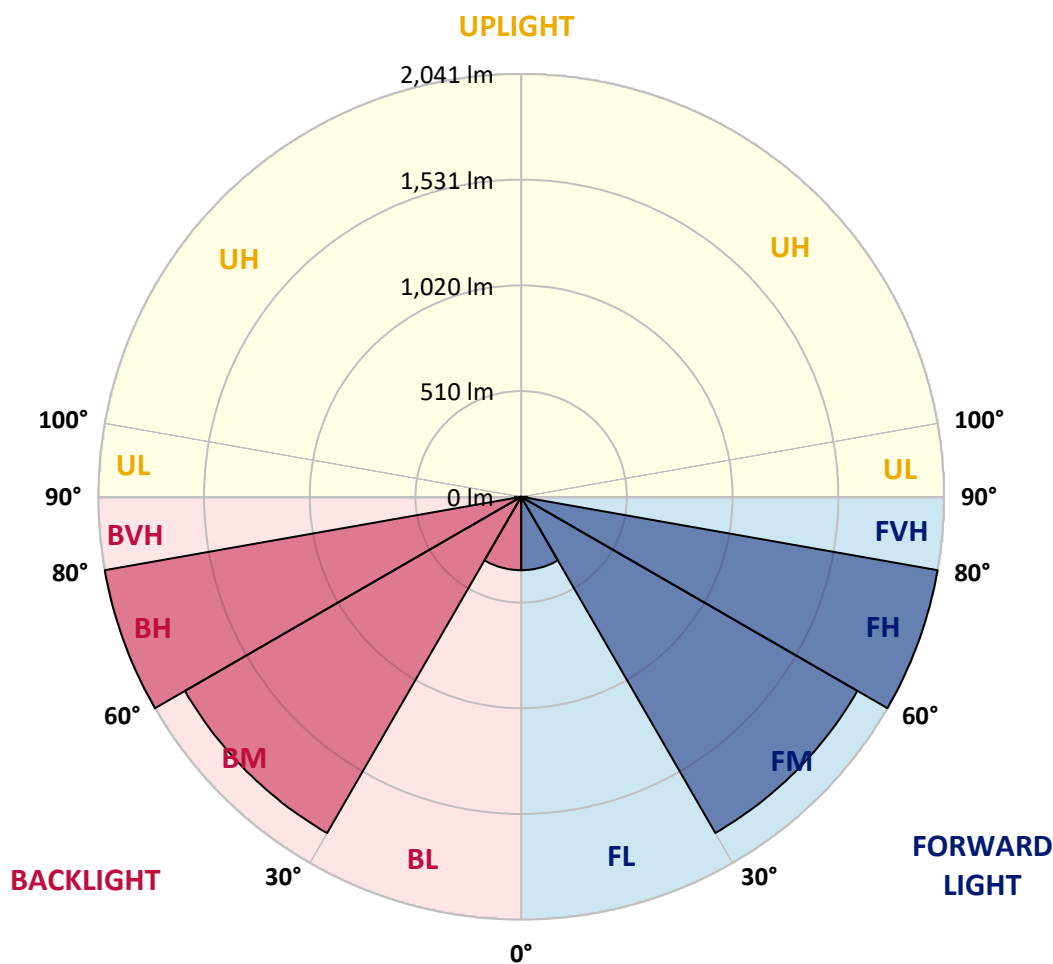
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 354.3  | 4.1       |                         |      |         |
| FM   | (30°-60°)   | 1873.8 | 21.8      |                         |      |         |
| FH   | (60°-80°)   | 2041.0 | 23.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 30.0   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 354.3  | 4.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1873.8 | 21.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 2041.0 | 23.7      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 30.0   | 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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 856.8  | 856.8  | 856.8  | 856.8  | 856.8  | 856.8  | 856.8  | 856.8  | 856.8  | 856.8  | 856.8  |
| 2.5°  | 853.7  | 854.5  | 854.5  | 854.5  | 854.1  | 854.1  | 853.3  | 854.1  | 853.7  | 852.5  | 852.9  |
| 5°    | 846.5  | 847.3  | 847.3  | 846.9  | 848.1  | 847.7  | 846.5  | 847.3  | 846.9  | 846.2  | 846.5  |
| 7.5°  | 836.3  | 837.5  | 837.5  | 837.1  | 838.2  | 837.8  | 837.1  | 837.5  | 837.5  | 836.3  | 836.3  |
| 10°   | 824.8  | 825.6  | 825.6  | 825.2  | 827.2  | 827.2  | 826.8  | 828.0  | 828.4  | 827.2  | 826.4  |
| 12.5° | 814.1  | 815.3  | 815.3  | 816.9  | 818.9  | 819.7  | 821.6  | 823.2  | 824.8  | 824.4  | 822.8  |
| 15°   | 807.8  | 808.6  | 810.2  | 812.1  | 815.3  | 818.1  | 821.2  | 824.8  | 828.0  | 828.8  | 826.4  |
| 17.5° | 803.8  | 805.0  | 807.4  | 810.2  | 814.5  | 819.3  | 824.0  | 828.8  | 833.1  | 834.7  | 831.9  |
| 20°   | 802.7  | 803.4  | 805.8  | 810.6  | 816.5  | 823.6  | 830.3  | 835.9  | 841.8  | 843.8  | 841.8  |
| 22.5° | 805.0  | 806.6  | 809.4  | 814.9  | 822.8  | 831.9  | 839.8  | 847.3  | 854.8  | 858.4  | 855.6  |
| 25°   | 815.7  | 817.3  | 820.8  | 828.0  | 836.7  | 846.2  | 855.2  | 863.9  | 870.7  | 874.2  | 872.2  |
| 27.5° | 835.5  | 837.5  | 841.8  | 848.9  | 858.4  | 868.7  | 878.6  | 885.7  | 891.2  | 892.4  | 890.0  |
| 30°   | 865.1  | 869.5  | 874.6  | 882.5  | 893.6  | 902.3  | 912.2  | 918.5  | 925.2  | 925.2  | 923.3  |
| 32.5° | 911.4  | 915.7  | 921.3  | 928.8  | 937.5  | 947.0  | 955.7  | 961.2  | 968.3  | 968.7  | 964.0  |
| 35°   | 980.6  | 982.6  | 987.3  | 992.1  | 1000.0 | 1008.3 | 1015.8 | 1019.3 | 1025.3 | 1025.7 | 1021.3 |
| 37.5° | 1071.9 | 1072.3 | 1075.5 | 1077.1 | 1084.2 | 1093.3 | 1100.4 | 1102.8 | 1108.3 | 1107.5 | 1103.2 |
| 40°   | 1178.3 | 1180.3 | 1181.4 | 1183.8 | 1191.3 | 1200.0 | 1207.5 | 1208.7 | 1214.7 | 1213.5 | 1207.9 |
| 42.5° | 1301.3 | 1302.0 | 1308.8 | 1312.3 | 1319.4 | 1323.8 | 1333.3 | 1334.5 | 1341.6 | 1338.4 | 1332.1 |
| 45°   | 1439.2 | 1446.4 | 1452.7 | 1459.8 | 1467.3 | 1472.5 | 1480.0 | 1478.4 | 1483.1 | 1478.4 | 1474.8 |
| 47.5° | 1584.4 | 1589.5 | 1603.7 | 1614.8 | 1627.1 | 1631.4 | 1642.1 | 1637.3 | 1642.1 | 1635.4 | 1634.2 |
| 50°   | 1744.1 | 1753.2 | 1765.5 | 1778.1 | 1791.2 | 1798.3 | 1812.1 | 1806.2 | 1812.5 | 1806.2 | 1802.6 |
| 52.5° | 1901.5 | 1903.8 | 1930.7 | 1949.3 | 1967.5 | 1975.8 | 1984.1 | 1981.3 | 1981.7 | 1981.3 | 1977.8 |
| 55°   | 2050.9 | 2056.5 | 2083.4 | 2108.7 | 2140.3 | 2163.6 | 2177.9 | 2176.3 | 2172.7 | 2169.2 | 2163.2 |
| 57.5° | 2219.4 | 2224.9 | 2255.7 | 2287.0 | 2323.0 | 2356.2 | 2385.0 | 2414.7 | 2426.2 | 2429.3 | 2416.3 |
| 60°   | 2447.1 | 2446.7 | 2487.8 | 2525.8 | 2577.2 | 2626.6 | 2689.9 | 2754.3 | 2828.3 | 2862.7 | 2817.2 |
| 62.5° | 2678.8 | 2688.3 | 2747.6 | 2814.8 | 2920.8 | 3024.0 | 3140.6 | 3255.3 | 3372.3 | 3467.6 | 3366.4 |
| 65°   | 2651.1 | 2687.5 | 2775.7 | 2927.9 | 3123.6 | 3356.1 | 3607.6 | 3873.7 | 4114.1 | 4279.4 | 4093.9 |
| 67.5° | 2297.7 | 2349.5 | 2439.2 | 2624.3 | 2869.0 | 3204.3 | 3626.6 | 4152.9 | 4764.5 | 5060.3 | 4693.8 |
| 70°   | 1665.4 | 1723.9 | 1818.0 | 1998.7 | 2241.1 | 2559.8 | 3018.5 | 3650.3 | 4460.1 | 4758.2 | 4354.5 |
| 72.5° | 828.8  | 860.4  | 918.5  | 1033.6 | 1217.0 | 1475.6 | 1891.6 | 2498.9 | 3215.4 | 3489.0 | 3120.1 |
| 75°   | 281.5  | 296.2  | 306.0  | 343.6  | 401.7  | 503.3  | 710.1  | 1092.5 | 1666.6 | 1997.9 | 1642.9 |
| 77.5° | 162.5  | 162.9  | 169.6  | 176.3  | 186.2  | 197.3  | 225.0  | 295.4  | 510.9  | 725.6  | 528.6  |
| 80°   | 105.2  | 104.8  | 110.3  | 115.5  | 122.2  | 127.7  | 129.3  | 136.8  | 157.8  | 187.0  | 167.3  |
| 82.5° | 54.6   | 61.3   | 73.5   | 80.3   | 92.9   | 95.3   | 92.1   | 89.4   | 94.5   | 98.1   | 100.4  |
| 85°   | 30.1   | 26.1   | 39.1   | 50.6   | 56.1   | 56.9   | 56.9   | 53.8   | 55.8   | 54.6   | 59.3   |
| 87.5° | 13.8   | 12.7   | 15.4   | 24.9   | 26.5   | 22.5   | 23.7   | 21.0   | 15.0   | 14.6   | 16.6   |
| 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°    | 856.8  | 856.8  | 856.8  | 856.8  | 856.8  | 856.8  | 856.8  | 856.8  |
| 2.5°  | 852.9  | 853.3  | 853.3  | 854.5  | 854.8  | 855.6  | 856.4  | 856.8  |
| 5°    | 846.2  | 847.3  | 846.5  | 847.7  | 847.7  | 848.5  | 848.5  | 848.9  |
| 7.5°  | 836.3  | 837.5  | 837.5  | 837.5  | 837.1  | 838.2  | 838.2  | 838.2  |
| 10°   | 826.0  | 826.8  | 826.4  | 825.6  | 824.8  | 826.0  | 825.6  | 825.2  |
| 12.5° | 822.8  | 820.8  | 819.3  | 818.5  | 816.9  | 817.3  | 816.1  | 816.1  |
| 15°   | 824.8  | 821.2  | 818.5  | 817.3  | 815.7  | 814.9  | 814.1  | 814.5  |
| 17.5° | 829.9  | 825.6  | 822.0  | 820.1  | 818.1  | 816.9  | 815.3  | 815.7  |
| 20°   | 839.0  | 833.9  | 828.8  | 824.8  | 821.2  | 819.3  | 818.1  | 817.7  |
| 22.5° | 852.5  | 845.0  | 837.5  | 831.5  | 826.8  | 824.0  | 822.8  | 822.0  |
| 25°   | 867.9  | 859.6  | 850.9  | 844.2  | 839.4  | 835.9  | 833.5  | 833.5  |
| 27.5° | 887.3  | 880.6  | 872.6  | 864.7  | 860.4  | 856.8  | 855.2  | 854.5  |
| 30°   | 919.7  | 913.4  | 907.0  | 899.5  | 894.0  | 890.4  | 887.7  | 885.3  |
| 32.5° | 961.2  | 956.1  | 950.9  | 945.4  | 940.3  | 935.5  | 931.2  | 929.2  |
| 35°   | 1019.7 | 1015.8 | 1012.2 | 1005.9 | 1003.9 | 1001.1 | 998.8  | 996.8  |
| 37.5° | 1100.4 | 1098.8 | 1098.8 | 1092.1 | 1090.5 | 1089.3 | 1086.9 | 1087.3 |
| 40°   | 1206.4 | 1207.9 | 1206.0 | 1203.6 | 1202.4 | 1199.2 | 1199.2 | 1202.0 |
| 42.5° | 1331.7 | 1332.9 | 1337.2 | 1333.3 | 1337.6 | 1333.7 | 1331.3 | 1333.3 |
| 45°   | 1477.2 | 1481.6 | 1490.3 | 1486.3 | 1489.1 | 1482.3 | 1474.0 | 1474.4 |
| 47.5° | 1640.5 | 1644.5 | 1648.0 | 1645.3 | 1645.6 | 1634.6 | 1623.5 | 1620.7 |
| 50°   | 1810.1 | 1811.7 | 1813.7 | 1809.7 | 1810.5 | 1798.3 | 1785.6 | 1786.0 |
| 52.5° | 1977.8 | 1985.3 | 1993.2 | 1982.5 | 1980.2 | 1966.3 | 1948.5 | 1941.4 |
| 55°   | 2169.5 | 2180.2 | 2171.1 | 2152.5 | 2134.0 | 2115.4 | 2092.0 | 2088.1 |
| 57.5° | 2406.0 | 2387.8 | 2359.3 | 2324.1 | 2298.4 | 2272.4 | 2248.6 | 2238.7 |
| 60°   | 2735.0 | 2666.6 | 2615.2 | 2563.0 | 2530.2 | 2498.1 | 2466.9 | 2462.1 |
| 62.5° | 3200.0 | 3081.7 | 2979.3 | 2871.4 | 2783.2 | 2714.4 | 2659.4 | 2644.0 |
| 65°   | 3782.8 | 3503.2 | 3260.8 | 3034.7 | 2838.2 | 2689.9 | 2596.6 | 2555.5 |
| 67.5° | 4033.5 | 3481.5 | 3065.9 | 2744.9 | 2487.8 | 2308.3 | 2207.5 | 2157.3 |
| 70°   | 3544.3 | 2887.2 | 2435.3 | 2113.8 | 1879.7 | 1688.3 | 1597.0 | 1543.2 |
| 72.5° | 2438.4 | 1836.6 | 1452.3 | 1185.4 | 998.4  | 838.2  | 775.0  | 770.2  |
| 75°   | 1094.9 | 725.2  | 499.8  | 385.1  | 324.2  | 281.9  | 268.9  | 259.0  |
| 77.5° | 306.4  | 226.6  | 202.0  | 189.0  | 176.3  | 161.7  | 156.2  | 157.4  |
| 80°   | 149.1  | 140.8  | 135.2  | 126.9  | 115.5  | 103.2  | 97.7   | 100.0  |
| 82.5° | 98.8   | 97.7   | 101.2  | 95.3   | 78.7   | 66.8   | 56.1   | 51.4   |
| 85°   | 60.1   | 60.9   | 62.1   | 62.5   | 53.0   | 37.2   | 25.3   | 28.5   |
| 87.5° | 23.7   | 27.3   | 29.7   | 30.8   | 28.9   | 17.8   | 14.2   | 14.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)