

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: P200562

Luminaire Tested: **GAW-AF-02-LED-E1-5WQ-8030-1200**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P200562  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
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-E1-5WQ-8030-1200  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 11713 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 129  
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



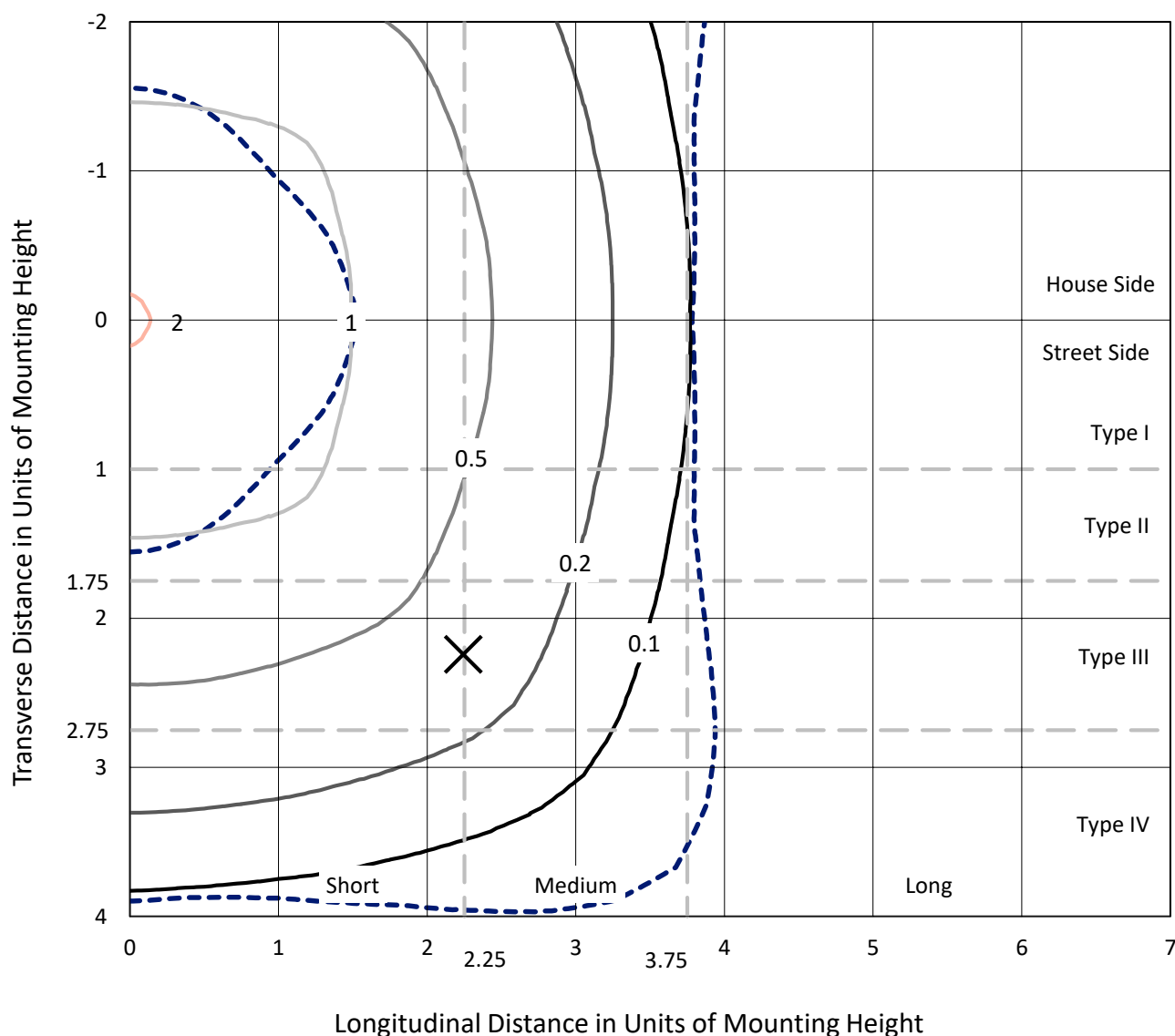
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

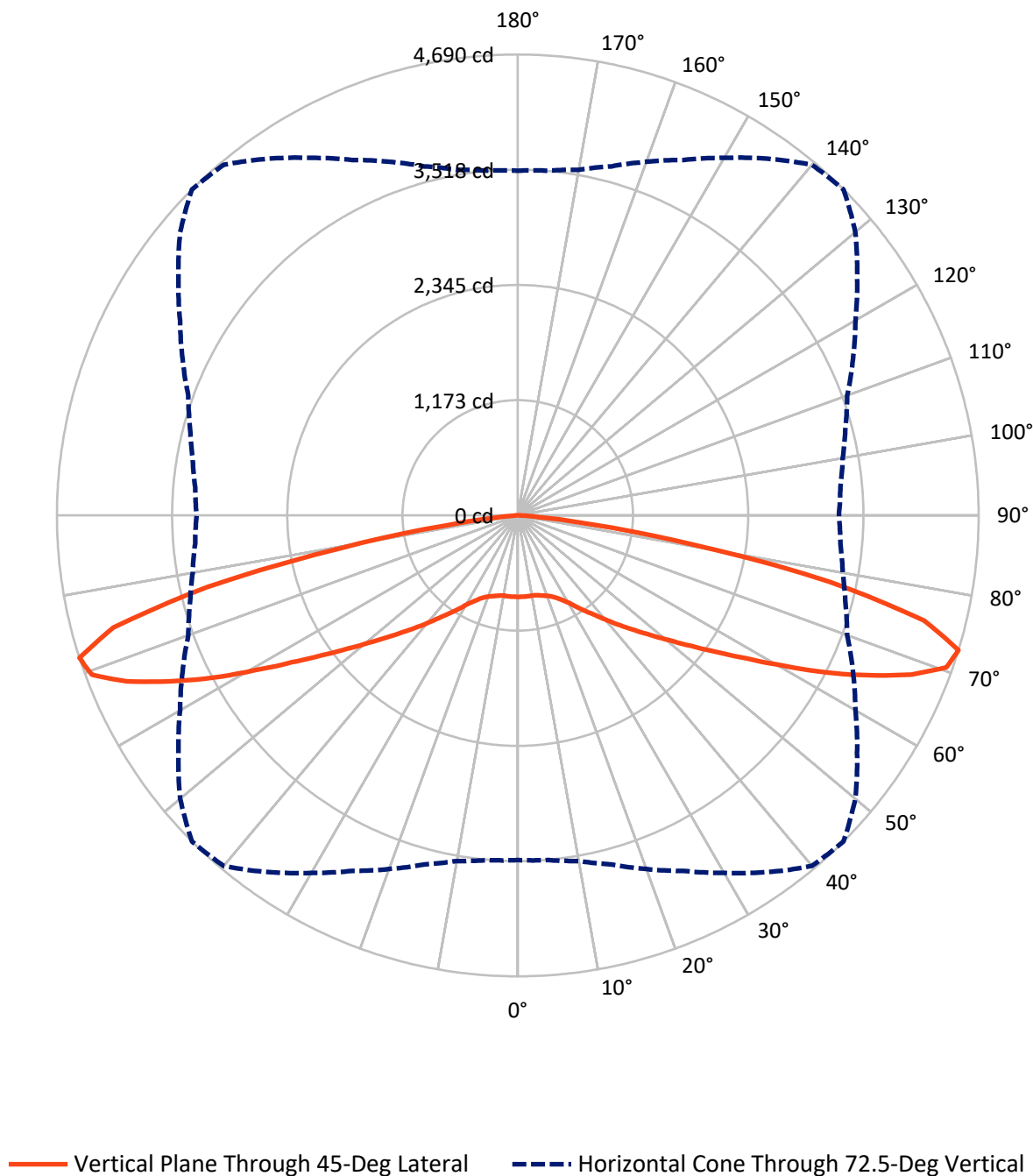


Based on 20 foot mounting height. Maximum calculated value = 2.1 fc  
 Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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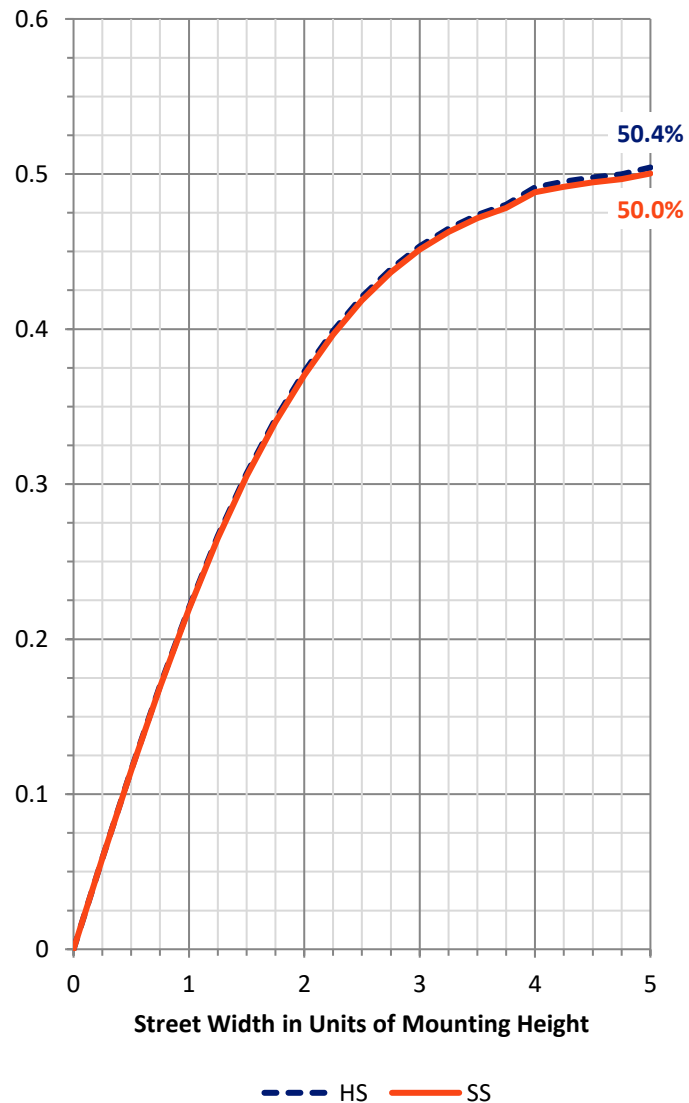
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5856.5   | 0.0    | 5856.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5856.5   | 0.0    | 5856.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 11713.0  | 0.0    | 11713.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 79.2    | 0.7       |
| 10°-20°   | 240.6   | 2.1       |
| 20°-30°   | 439.6   | 3.8       |
| 30°-40°   | 757.9   | 6.5       |
| 40°-50°   | 1295.7  | 11.1      |
| 50°-60°   | 2100.1  | 17.9      |
| 60°-70°   | 3484.0  | 29.7      |
| 70°-80°   | 3068.6  | 26.2      |
| 80°-90°   | 247.4   | 2.1       |
| 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°    | 11713.0 | 100.0     |
| 0°-180°   | 11713.0 | 100.0     |

**Coefficient of Utilization**



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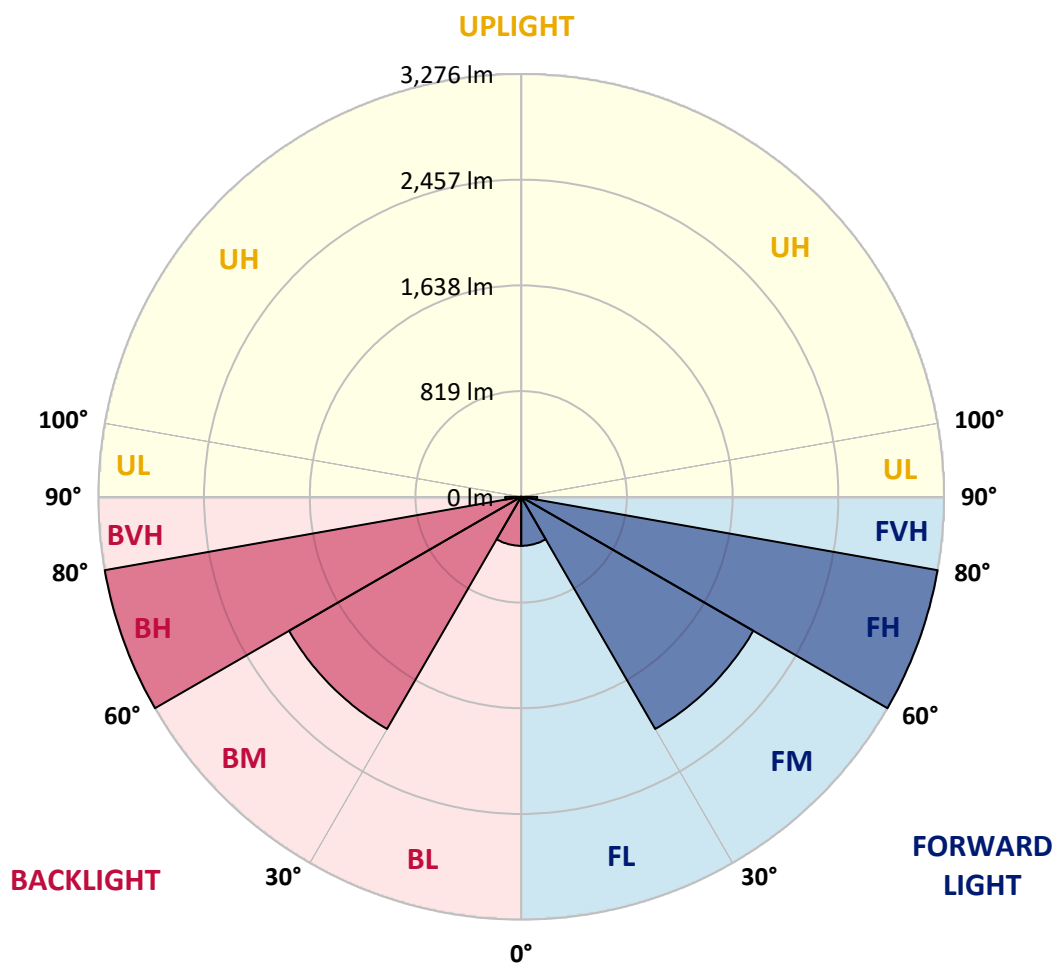
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 379.7  | 3.2       |                         |      |         |
| FM   | (30°-60°)   | 2076.8 | 17.7      |                         |      |         |
| FH   | (60°-80°)   | 3276.3 | 28.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 123.7  | 1.1       |                         |      | G2/225  |
| BL   | (0°-30°)    | 379.7  | 3.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2076.8 | 17.7      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 3276.3 | 28.0      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 123.7  | 1.1       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 829.5  | 829.5  | 829.5  | 829.5  | 829.5  | 829.5  | 829.5  | 829.5  | 829.5  | 829.5  | 829.5  |
| 2.5°  | 829.5  | 830.0  | 830.5  | 830.0  | 830.0  | 829.5  | 828.9  | 829.5  | 828.9  | 827.9  | 828.4  |
| 5°    | 832.1  | 833.2  | 833.2  | 832.1  | 832.7  | 832.1  | 831.1  | 831.6  | 830.5  | 828.9  | 828.9  |
| 7.5°  | 835.4  | 835.9  | 835.9  | 834.8  | 835.4  | 834.3  | 833.2  | 832.7  | 831.6  | 829.5  | 827.9  |
| 10°   | 840.2  | 840.7  | 840.2  | 839.1  | 839.1  | 837.5  | 834.8  | 833.8  | 831.6  | 828.4  | 826.8  |
| 12.5° | 845.6  | 846.1  | 845.6  | 844.5  | 844.0  | 841.3  | 839.1  | 837.5  | 835.9  | 833.2  | 830.5  |
| 15°   | 853.1  | 854.2  | 853.1  | 851.0  | 849.3  | 847.2  | 846.1  | 846.7  | 847.2  | 845.0  | 842.4  |
| 17.5° | 867.1  | 867.6  | 866.0  | 861.2  | 859.0  | 856.9  | 856.9  | 857.9  | 859.5  | 858.5  | 855.8  |
| 20°   | 892.9  | 891.2  | 887.5  | 881.6  | 878.9  | 875.1  | 874.6  | 875.1  | 875.1  | 874.6  | 872.4  |
| 22.5° | 925.1  | 924.0  | 919.2  | 911.7  | 907.9  | 905.7  | 902.5  | 899.8  | 899.3  | 897.7  | 895.5  |
| 25°   | 963.8  | 963.2  | 957.3  | 950.9  | 948.2  | 945.5  | 942.8  | 939.1  | 935.8  | 932.1  | 929.9  |
| 27.5° | 1013.2 | 1011.0 | 1002.4 | 999.2  | 995.5  | 993.9  | 990.1  | 985.8  | 983.1  | 978.3  | 975.6  |
| 30°   | 1067.4 | 1067.4 | 1060.5 | 1059.4 | 1059.4 | 1055.6 | 1051.3 | 1043.8 | 1039.0 | 1034.1 | 1032.5 |
| 32.5° | 1121.7 | 1122.2 | 1115.3 | 1117.4 | 1119.0 | 1121.7 | 1122.8 | 1120.1 | 1116.9 | 1116.3 | 1113.1 |
| 35°   | 1200.1 | 1198.0 | 1191.0 | 1192.6 | 1192.1 | 1191.5 | 1191.5 | 1197.5 | 1198.5 | 1199.6 | 1193.2 |
| 37.5° | 1297.4 | 1297.4 | 1290.4 | 1290.4 | 1287.2 | 1283.9 | 1279.6 | 1283.4 | 1289.3 | 1290.9 | 1286.6 |
| 40°   | 1408.6 | 1412.3 | 1403.7 | 1403.2 | 1404.3 | 1394.1 | 1389.2 | 1395.2 | 1398.9 | 1405.4 | 1400.5 |
| 42.5° | 1539.7 | 1537.0 | 1528.4 | 1527.3 | 1521.4 | 1518.2 | 1513.9 | 1518.7 | 1524.6 | 1528.9 | 1530.5 |
| 45°   | 1665.4 | 1663.2 | 1653.6 | 1653.6 | 1647.6 | 1645.0 | 1647.1 | 1655.2 | 1657.9 | 1663.8 | 1669.7 |
| 47.5° | 1789.5 | 1786.8 | 1780.3 | 1783.0 | 1783.6 | 1788.4 | 1795.4 | 1802.9 | 1810.4 | 1818.5 | 1821.2 |
| 50°   | 1916.3 | 1916.8 | 1909.8 | 1916.3 | 1924.3 | 1937.7 | 1956.5 | 1968.9 | 1984.5 | 1994.7 | 1997.9 |
| 52.5° | 2031.8 | 2033.9 | 2041.4 | 2056.5 | 2072.6 | 2098.9 | 2131.1 | 2161.2 | 2187.0 | 2204.2 | 2203.1 |
| 55°   | 2170.4 | 2173.6 | 2191.8 | 2217.6 | 2244.0 | 2283.7 | 2331.5 | 2384.7 | 2427.7 | 2452.4 | 2436.8 |
| 57.5° | 2347.6 | 2354.6 | 2375.0 | 2410.0 | 2449.2 | 2500.7 | 2566.3 | 2646.3 | 2712.9 | 2746.3 | 2721.0 |
| 60°   | 2591.0 | 2595.3 | 2620.0 | 2658.7 | 2706.0 | 2769.9 | 2857.5 | 2964.9 | 3058.9 | 3103.0 | 3074.0 |
| 62.5° | 2911.7 | 2919.8 | 2939.6 | 2978.9 | 3027.2 | 3099.7 | 3206.6 | 3340.9 | 3458.1 | 3519.3 | 3453.8 |
| 65°   | 3294.7 | 3320.5 | 3337.2 | 3376.9 | 3422.1 | 3498.9 | 3610.6 | 3754.6 | 3880.3 | 3920.6 | 3844.9 |
| 67.5° | 3674.0 | 3696.6 | 3725.6 | 3771.3 | 3816.9 | 3903.4 | 4007.1 | 4146.8 | 4284.8 | 4321.4 | 4203.7 |
| 70°   | 3840.0 | 3852.9 | 3898.0 | 3960.4 | 4047.9 | 4150.0 | 4269.8 | 4426.7 | 4597.5 | 4627.6 | 4478.2 |
| 72.5° | 3507.5 | 3520.4 | 3570.9 | 3676.7 | 3829.3 | 3991.5 | 4200.5 | 4431.0 | 4656.6 | 4690.4 | 4484.7 |
| 75°   | 2652.8 | 2631.8 | 2706.5 | 2846.7 | 3052.5 | 3278.6 | 3570.9 | 3901.3 | 4227.4 | 4269.8 | 4024.3 |
| 77.5° | 1371.0 | 1368.3 | 1424.7 | 1598.8 | 1844.3 | 2101.6 | 2423.4 | 2796.7 | 3115.9 | 3244.8 | 3044.9 |
| 80°   | 386.3  | 390.6  | 417.4  | 503.9  | 647.3  | 833.2  | 1084.6 | 1434.4 | 1695.5 | 1828.7 | 1716.9 |
| 82.5° | 151.5  | 163.3  | 173.5  | 189.6  | 208.4  | 235.8  | 314.8  | 468.5  | 628.5  | 751.0  | 615.1  |
| 85°   | 54.3   | 58.0   | 82.2   | 97.2   | 98.8   | 104.2  | 118.7  | 138.6  | 167.1  | 199.3  | 163.9  |
| 87.5° | 20.4   | 22.6   | 26.3   | 43.5   | 43.0   | 39.2   | 47.8   | 50.0   | 37.6   | 34.4   | 42.4   |
| 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°    | 829.5  | 829.5  | 829.5  | 829.5  | 829.5  | 829.5  | 829.5  | 829.5  |
| 2.5°  | 827.3  | 827.9  | 827.9  | 828.4  | 828.9  | 828.9  | 830.0  | 830.0  |
| 5°    | 827.9  | 827.9  | 826.8  | 827.3  | 826.8  | 826.8  | 827.3  | 827.3  |
| 7.5°  | 826.8  | 826.2  | 825.2  | 824.6  | 823.6  | 823.6  | 823.6  | 823.6  |
| 10°   | 825.2  | 824.6  | 823.6  | 823.0  | 822.5  | 822.5  | 822.5  | 822.5  |
| 12.5° | 829.5  | 827.9  | 826.8  | 826.2  | 826.2  | 826.2  | 826.2  | 826.2  |
| 15°   | 840.7  | 837.0  | 834.3  | 834.3  | 834.8  | 835.9  | 835.9  | 837.0  |
| 17.5° | 854.7  | 850.4  | 847.7  | 845.6  | 846.7  | 848.3  | 849.3  | 850.4  |
| 20°   | 871.4  | 869.2  | 865.5  | 863.3  | 863.3  | 865.5  | 866.5  | 867.1  |
| 22.5° | 894.5  | 892.9  | 891.2  | 888.6  | 888.6  | 889.6  | 891.8  | 891.8  |
| 25°   | 928.8  | 927.8  | 926.7  | 924.5  | 924.0  | 924.0  | 925.1  | 926.2  |
| 27.5° | 971.8  | 972.4  | 971.3  | 970.8  | 969.1  | 968.6  | 970.2  | 969.7  |
| 30°   | 1029.3 | 1032.0 | 1034.7 | 1032.5 | 1029.8 | 1028.2 | 1026.6 | 1024.5 |
| 32.5° | 1107.2 | 1104.0 | 1101.8 | 1098.1 | 1093.2 | 1088.9 | 1085.7 | 1082.0 |
| 35°   | 1180.8 | 1175.4 | 1173.3 | 1176.5 | 1176.0 | 1173.3 | 1169.5 | 1166.3 |
| 37.5° | 1271.1 | 1270.0 | 1271.1 | 1277.0 | 1275.9 | 1278.6 | 1271.1 | 1270.5 |
| 40°   | 1384.9 | 1386.0 | 1393.5 | 1400.5 | 1404.3 | 1408.0 | 1403.7 | 1399.4 |
| 42.5° | 1517.1 | 1516.6 | 1519.2 | 1528.9 | 1535.4 | 1539.7 | 1530.5 | 1529.5 |
| 45°   | 1656.8 | 1653.0 | 1655.2 | 1663.2 | 1669.7 | 1674.5 | 1664.3 | 1664.3 |
| 47.5° | 1810.4 | 1804.0 | 1797.0 | 1806.1 | 1809.9 | 1813.1 | 1805.0 | 1802.4 |
| 50°   | 1981.8 | 1968.4 | 1953.3 | 1957.1 | 1957.1 | 1956.0 | 1945.8 | 1945.3 |
| 52.5° | 2178.4 | 2153.7 | 2126.3 | 2116.1 | 2110.2 | 2103.7 | 2086.0 | 2077.4 |
| 55°   | 2404.6 | 2367.5 | 2324.5 | 2298.2 | 2284.2 | 2266.5 | 2237.0 | 2228.9 |
| 57.5° | 2668.9 | 2610.9 | 2536.7 | 2504.5 | 2473.3 | 2444.3 | 2411.6 | 2402.4 |
| 60°   | 2982.1 | 2896.7 | 2798.4 | 2738.7 | 2704.9 | 2677.0 | 2643.1 | 2641.5 |
| 62.5° | 3331.3 | 3196.4 | 3085.2 | 3031.5 | 3006.8 | 2982.1 | 2949.9 | 2954.2 |
| 65°   | 3686.4 | 3545.6 | 3441.4 | 3397.9 | 3374.8 | 3354.4 | 3322.1 | 3327.0 |
| 67.5° | 4036.6 | 3907.2 | 3792.7 | 3748.2 | 3722.4 | 3696.6 | 3667.6 | 3672.4 |
| 70°   | 4288.1 | 4127.4 | 3998.5 | 3899.7 | 3837.9 | 3768.0 | 3722.9 | 3711.6 |
| 72.5° | 4216.1 | 3968.4 | 3763.7 | 3567.7 | 3452.7 | 3359.2 | 3295.8 | 3268.4 |
| 75°   | 3648.8 | 3310.3 | 3047.1 | 2806.4 | 2671.0 | 2560.9 | 2480.9 | 2430.9 |
| 77.5° | 2709.7 | 2329.4 | 2018.3 | 1741.1 | 1521.9 | 1374.7 | 1271.1 | 1203.9 |
| 80°   | 1483.3 | 1128.2 | 824.6  | 579.7  | 426.0  | 354.0  | 312.7  | 292.8  |
| 82.5° | 462.0  | 298.2  | 219.7  | 189.6  | 176.2  | 168.7  | 156.3  | 136.5  |
| 85°   | 147.2  | 128.9  | 119.8  | 114.4  | 109.1  | 95.1   | 65.5   | 59.6   |
| 87.5° | 56.9   | 58.6   | 58.0   | 54.8   | 55.9   | 40.3   | 32.2   | 28.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)