

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: P200070

Luminaire Tested: **GAW-AF-02-LED-U-5NQ-800**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P200070  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
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-U-5NQ-800  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 10590.6 lumens  
Efficiency: N/A  
Efficacy: 123.1 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 - G1

Input Watts (W): 86  
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



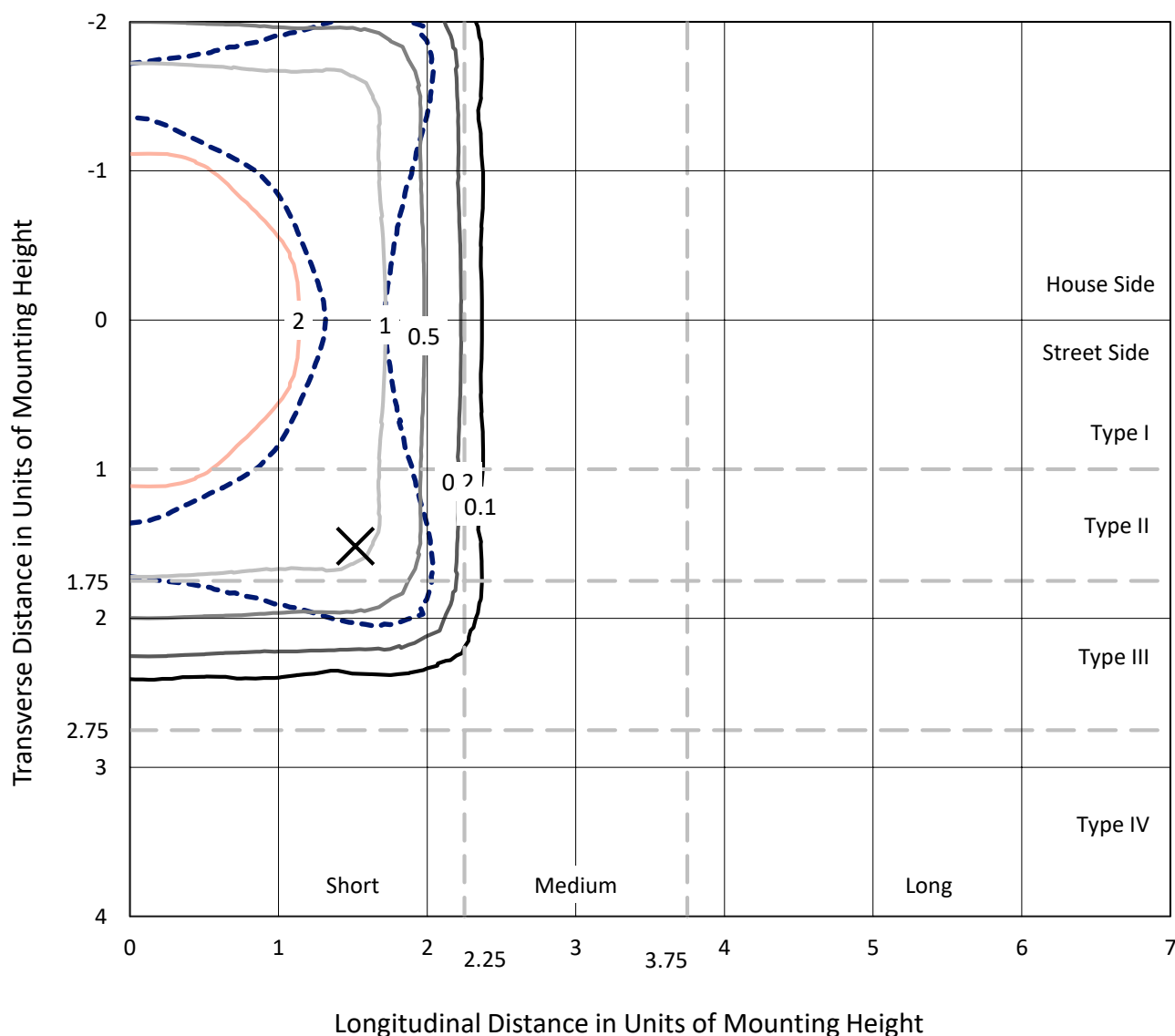
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CATALOG NUMBER: GAW-AF-02-LED-U-5NQ-800

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

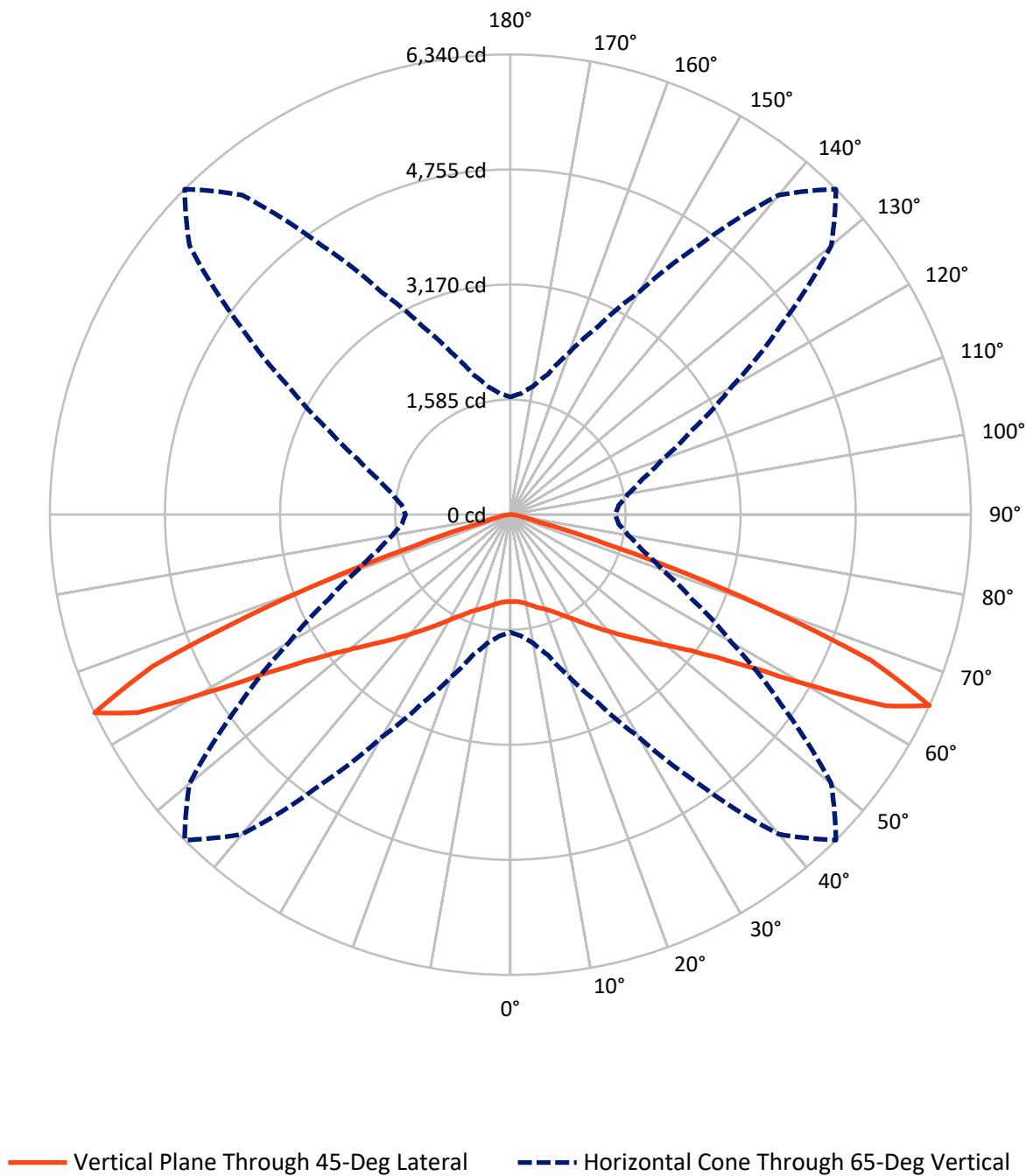


Based on 20 foot mounting height. Maximum calculated value = 3 fc  
 Type V - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5295.3   | 0.0    | 5295.3  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5295.3   | 0.0    | 5295.3  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 10590.6  | 0.0    | 10590.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 116.8   | 1.1       |
| 10°-20°   | 374.6   | 3.5       |
| 20°-30°   | 700.4   | 6.6       |
| 30°-40°   | 1184.6  | 11.2      |
| 40°-50°   | 1937.0  | 18.3      |
| 50°-60°   | 3080.1  | 29.1      |
| 60°-70°   | 2784.2  | 26.3      |
| 70°-80°   | 352.4   | 3.3       |
| 80°-90°   | 60.6    | 0.6       |
| 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°    | 10590.6 | 100.0     |
| 0°-180°   | 10590.6 | 100.0     |

**Coefficient of Utilization**



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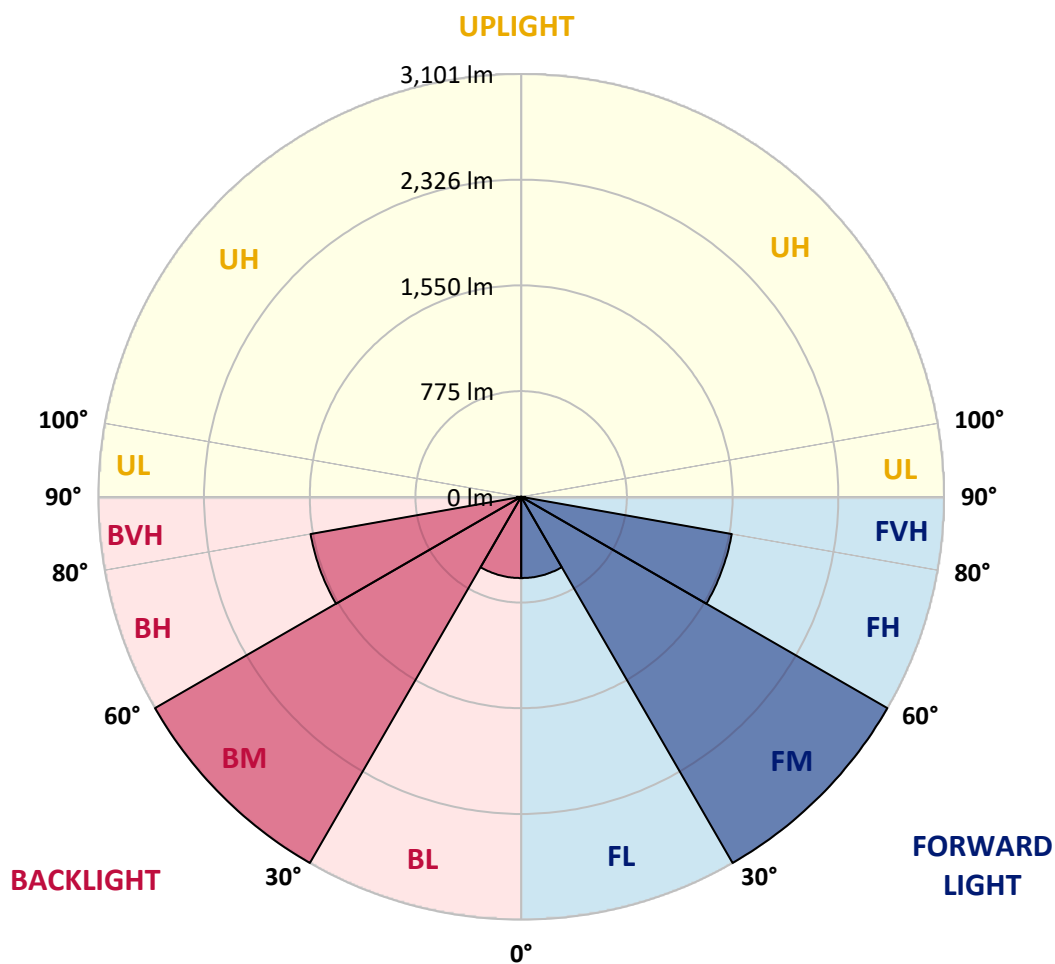
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 595.9  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 3100.8 | 29.3      |                         |      |         |
| FH   | (60°-80°)   | 1568.3 | 14.8      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 30.3   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 595.9  | 5.6       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 3100.8 | 29.3      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1568.3 | 14.8      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 30.3   | 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°    | 1198.3 | 1198.3 | 1198.3 | 1198.3 | 1198.3 | 1198.3 | 1198.3 | 1198.3 | 1198.3 | 1198.3 | 1198.3 |
| 2.5°  | 1199.3 | 1200.3 | 1201.4 | 1200.3 | 1201.4 | 1199.8 | 1198.8 | 1200.3 | 1198.8 | 1197.4 | 1198.3 |
| 5°    | 1209.7 | 1210.3 | 1210.3 | 1208.7 | 1210.3 | 1209.2 | 1207.8 | 1209.7 | 1208.2 | 1206.8 | 1207.8 |
| 7.5°  | 1227.1 | 1229.1 | 1227.6 | 1226.1 | 1227.1 | 1226.1 | 1225.1 | 1225.6 | 1225.1 | 1223.7 | 1224.2 |
| 10°   | 1250.5 | 1251.9 | 1250.9 | 1250.5 | 1251.4 | 1250.9 | 1249.9 | 1249.4 | 1249.9 | 1248.4 | 1248.4 |
| 12.5° | 1278.7 | 1278.2 | 1277.7 | 1278.2 | 1279.7 | 1279.7 | 1279.2 | 1279.7 | 1280.6 | 1281.1 | 1280.2 |
| 15°   | 1306.4 | 1307.4 | 1307.4 | 1307.4 | 1310.4 | 1313.0 | 1314.4 | 1315.4 | 1317.4 | 1317.9 | 1315.9 |
| 17.5° | 1341.2 | 1341.2 | 1340.7 | 1341.2 | 1344.2 | 1348.1 | 1349.6 | 1351.6 | 1353.6 | 1355.1 | 1352.5 |
| 20°   | 1379.9 | 1380.9 | 1380.9 | 1381.8 | 1385.8 | 1390.3 | 1390.3 | 1391.3 | 1390.3 | 1391.3 | 1389.8 |
| 22.5° | 1427.0 | 1430.0 | 1430.0 | 1430.5 | 1434.4 | 1439.9 | 1438.4 | 1439.9 | 1437.5 | 1439.4 | 1437.5 |
| 25°   | 1488.5 | 1493.0 | 1492.0 | 1492.0 | 1494.9 | 1498.4 | 1498.9 | 1501.9 | 1501.4 | 1503.8 | 1502.4 |
| 27.5° | 1558.0 | 1564.9 | 1566.9 | 1566.3 | 1568.4 | 1571.9 | 1572.8 | 1576.3 | 1574.3 | 1576.3 | 1575.2 |
| 30°   | 1641.2 | 1644.2 | 1648.2 | 1649.7 | 1652.2 | 1655.6 | 1655.6 | 1656.2 | 1653.7 | 1656.7 | 1658.1 |
| 32.5° | 1727.6 | 1733.0 | 1737.0 | 1745.9 | 1750.4 | 1752.8 | 1752.3 | 1753.3 | 1750.9 | 1754.9 | 1757.8 |
| 35°   | 1841.6 | 1845.6 | 1852.1 | 1859.0 | 1864.9 | 1864.4 | 1863.0 | 1863.5 | 1863.5 | 1867.0 | 1870.0 |
| 37.5° | 1979.0 | 1980.0 | 1988.4 | 1998.3 | 2001.4 | 1998.3 | 1989.4 | 1987.5 | 1983.0 | 1987.5 | 1992.4 |
| 40°   | 2124.4 | 2127.8 | 2144.7 | 2151.2 | 2152.6 | 2147.2 | 2134.3 | 2126.8 | 2116.9 | 2122.4 | 2129.3 |
| 42.5° | 2276.7 | 2283.5 | 2299.0 | 2310.3 | 2315.3 | 2311.9 | 2294.0 | 2282.6 | 2269.7 | 2272.7 | 2279.6 |
| 45°   | 2445.3 | 2453.8 | 2475.5 | 2486.5 | 2495.9 | 2490.4 | 2473.1 | 2455.7 | 2435.3 | 2436.9 | 2447.7 |
| 47.5° | 2633.8 | 2642.2 | 2670.4 | 2688.8 | 2693.7 | 2692.8 | 2673.5 | 2649.6 | 2621.8 | 2620.9 | 2630.3 |
| 50°   | 2845.0 | 2853.5 | 2888.7 | 2916.9 | 2931.4 | 2929.8 | 2907.0 | 2873.4 | 2839.6 | 2840.1 | 2852.0 |
| 52.5° | 3051.4 | 3061.8 | 3098.5 | 3147.1 | 3175.3 | 3195.7 | 3181.8 | 3150.1 | 3109.0 | 3109.9 | 3120.8 |
| 55°   | 3244.8 | 3262.2 | 3304.3 | 3370.3 | 3422.9 | 3480.0 | 3496.3 | 3495.3 | 3470.5 | 3477.4 | 3488.4 |
| 57.5° | 3338.6 | 3364.4 | 3429.3 | 3533.5 | 3640.7 | 3756.7 | 3854.9 | 3928.3 | 3959.5 | 4006.7 | 3995.7 |
| 60°   | 3161.0 | 3202.1 | 3297.9 | 3451.1 | 3663.0 | 3905.0 | 4164.4 | 4417.8 | 4634.1 | 4797.3 | 4703.5 |
| 62.5° | 2588.2 | 2641.7 | 2757.8 | 2954.2 | 3274.6 | 3662.0 | 4158.5 | 4757.6 | 5410.4 | 5804.2 | 5522.9 |
| 65°   | 1619.4 | 1675.0 | 1793.0 | 2003.3 | 2378.4 | 2860.0 | 3533.5 | 4526.5 | 5746.1 | 6339.8 | 5767.5 |
| 67.5° | 631.4  | 661.6  | 725.7  | 860.1  | 1141.8 | 1570.3 | 2246.4 | 3373.3 | 4832.0 | 5352.3 | 4742.2 |
| 70°   | 316.4  | 319.5  | 331.3  | 356.1  | 416.6  | 541.1  | 823.4  | 1563.9 | 2771.2 | 3347.0 | 2671.4 |
| 72.5° | 228.6  | 229.1  | 235.1  | 246.0  | 265.4  | 293.2  | 346.7  | 478.6  | 901.2  | 1377.4 | 844.7  |
| 75°   | 175.1  | 177.1  | 180.6  | 186.5  | 196.9  | 210.8  | 230.2  | 275.8  | 341.8  | 396.3  | 333.3  |
| 77.5° | 134.9  | 138.9  | 141.4  | 146.8  | 153.2  | 162.6  | 168.2  | 185.5  | 215.7  | 227.2  | 223.7  |
| 80°   | 102.7  | 106.2  | 111.6  | 116.1  | 120.5  | 125.0  | 123.0  | 130.9  | 146.8  | 156.2  | 151.3  |
| 82.5° | 65.5   | 69.5   | 85.3   | 89.3   | 91.2   | 94.2   | 90.7   | 91.2   | 98.2   | 104.1  | 98.2   |
| 85°   | 42.1   | 44.6   | 54.1   | 59.0   | 59.5   | 61.5   | 60.0   | 56.6   | 56.6   | 51.6   | 58.0   |
| 87.5° | 19.3   | 19.8   | 24.3   | 28.7   | 29.8   | 26.8   | 26.3   | 25.3   | 20.4   | 19.3   | 20.9   |
| 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°    | 1198.3 | 1198.3 | 1198.3 | 1198.3 | 1198.3 | 1198.3 | 1198.3 | 1198.3 |
| 2.5°  | 1197.9 | 1198.8 | 1199.3 | 1200.8 | 1201.4 | 1201.4 | 1201.8 | 1202.8 |
| 5°    | 1207.3 | 1208.7 | 1209.2 | 1211.3 | 1211.7 | 1211.3 | 1212.2 | 1212.7 |
| 7.5°  | 1224.2 | 1226.6 | 1227.6 | 1229.6 | 1228.1 | 1230.1 | 1230.6 | 1230.6 |
| 10°   | 1248.9 | 1251.4 | 1251.9 | 1253.9 | 1252.9 | 1253.9 | 1253.9 | 1252.9 |
| 12.5° | 1281.7 | 1282.2 | 1280.6 | 1282.2 | 1280.2 | 1281.1 | 1279.7 | 1278.7 |
| 15°   | 1317.9 | 1316.3 | 1313.0 | 1313.0 | 1309.9 | 1310.4 | 1309.9 | 1309.5 |
| 17.5° | 1353.1 | 1350.1 | 1347.6 | 1346.6 | 1344.2 | 1343.6 | 1342.2 | 1342.2 |
| 20°   | 1391.7 | 1390.3 | 1388.8 | 1386.8 | 1384.4 | 1381.8 | 1381.4 | 1382.3 |
| 22.5° | 1438.4 | 1437.9 | 1437.9 | 1436.9 | 1433.5 | 1431.0 | 1429.5 | 1429.5 |
| 25°   | 1500.9 | 1496.5 | 1496.5 | 1496.0 | 1494.4 | 1493.0 | 1490.0 | 1491.5 |
| 27.5° | 1571.4 | 1568.8 | 1570.8 | 1570.3 | 1568.8 | 1568.8 | 1566.9 | 1566.9 |
| 30°   | 1658.1 | 1657.2 | 1660.1 | 1657.6 | 1652.7 | 1652.2 | 1650.2 | 1647.7 |
| 32.5° | 1758.4 | 1757.3 | 1761.8 | 1758.9 | 1750.9 | 1746.4 | 1742.5 | 1740.4 |
| 35°   | 1870.0 | 1870.4 | 1875.9 | 1873.8 | 1864.9 | 1862.0 | 1855.0 | 1854.0 |
| 37.5° | 1991.9 | 1999.9 | 2009.3 | 2011.3 | 2003.9 | 2001.8 | 1994.4 | 1990.5 |
| 40°   | 2135.3 | 2145.7 | 2160.1 | 2163.5 | 2155.6 | 2154.1 | 2143.7 | 2138.3 |
| 42.5° | 2288.0 | 2305.9 | 2323.7 | 2326.7 | 2318.8 | 2310.8 | 2300.9 | 2296.9 |
| 45°   | 2458.7 | 2480.0 | 2503.3 | 2509.3 | 2497.3 | 2487.9 | 2475.0 | 2475.0 |
| 47.5° | 2650.2 | 2676.9 | 2703.1 | 2719.5 | 2708.7 | 2698.7 | 2683.4 | 2673.5 |
| 50°   | 2876.3 | 2913.0 | 2947.2 | 2964.1 | 2946.7 | 2927.9 | 2901.1 | 2892.2 |
| 52.5° | 3160.0 | 3199.7 | 3229.5 | 3220.6 | 3193.8 | 3167.5 | 3138.2 | 3126.2 |
| 55°   | 3522.1 | 3535.5 | 3535.5 | 3501.8 | 3448.2 | 3404.1 | 3357.9 | 3342.5 |
| 57.5° | 3975.0 | 3923.3 | 3843.9 | 3743.3 | 3616.8 | 3506.7 | 3432.3 | 3397.1 |
| 60°   | 4507.1 | 4259.2 | 3978.9 | 3703.6 | 3477.4 | 3290.9 | 3180.4 | 3129.7 |
| 62.5° | 4861.8 | 4213.0 | 3651.5 | 3209.6 | 2884.2 | 2659.6 | 2506.7 | 2447.3 |
| 65°   | 4543.8 | 3513.6 | 2761.8 | 2233.0 | 1878.3 | 1649.7 | 1498.4 | 1442.9 |
| 67.5° | 3328.2 | 2201.7 | 1470.6 | 1054.0 | 772.2  | 616.0  | 554.0  | 528.3  |
| 70°   | 1493.9 | 775.3  | 475.2  | 371.0  | 319.9  | 293.6  | 282.2  | 278.2  |
| 72.5° | 450.4  | 325.9  | 274.8  | 248.0  | 227.7  | 214.7  | 205.3  | 204.4  |
| 75°   | 271.8  | 226.2  | 200.9  | 185.1  | 172.2  | 161.7  | 156.7  | 155.3  |
| 77.5° | 190.0  | 166.1  | 154.3  | 142.8  | 132.9  | 125.0  | 120.5  | 117.0  |
| 80°   | 133.4  | 122.0  | 116.5  | 110.1  | 103.6  | 96.3   | 89.8   | 86.8   |
| 82.5° | 89.3   | 86.8   | 86.8   | 82.9   | 77.3   | 70.5   | 57.5   | 54.5   |
| 85°   | 57.5   | 57.1   | 58.0   | 56.6   | 52.6   | 45.1   | 37.2   | 35.2   |
| 87.5° | 26.8   | 27.3   | 30.3   | 29.8   | 28.7   | 23.8   | 18.8   | 17.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)