

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: P192890

Luminaire Tested: **GAN-AF-02-LED-U-SL3-7030-600**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P192890  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-02-LED-U-SL3-7030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 7761.8 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - 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



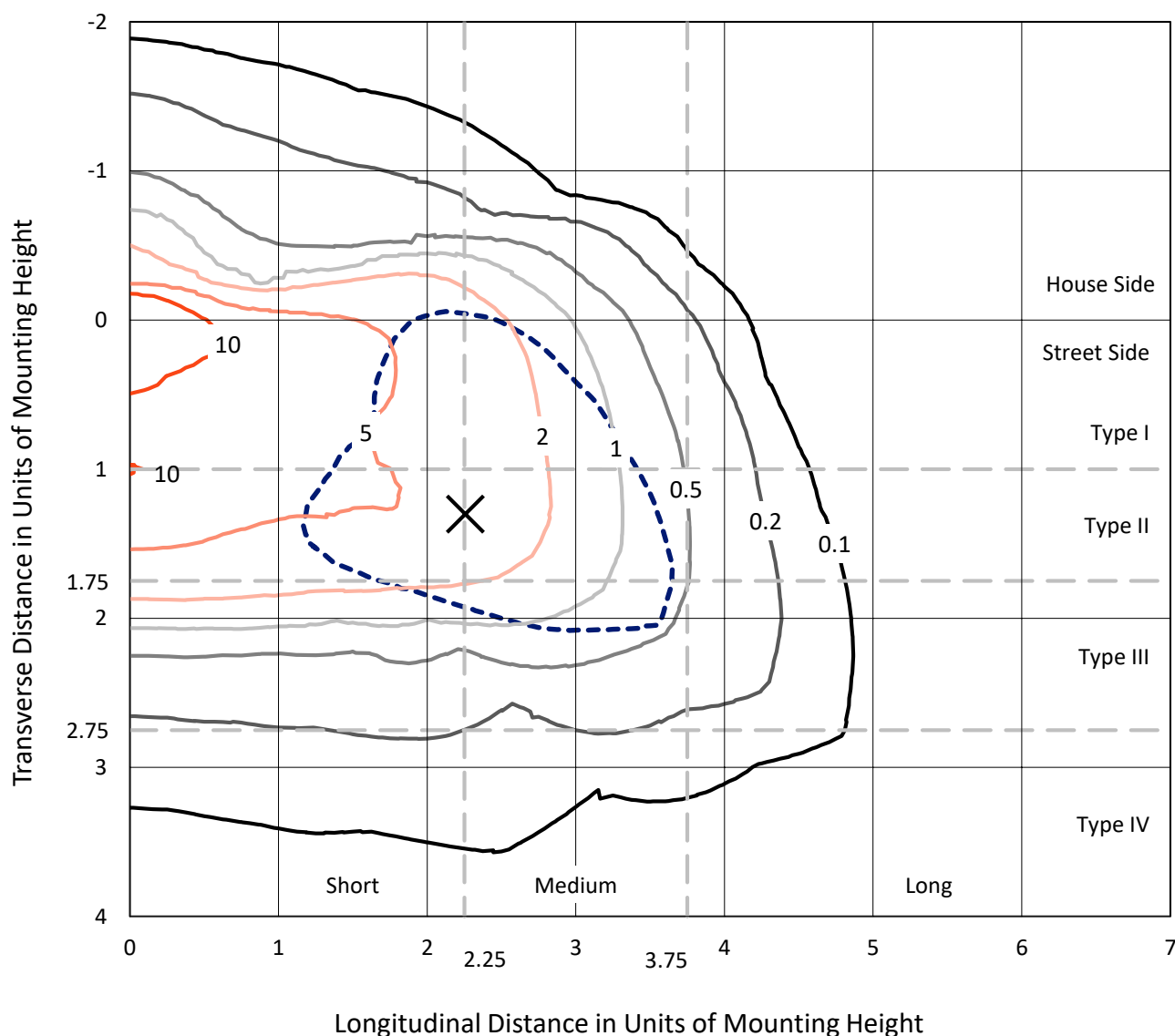
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

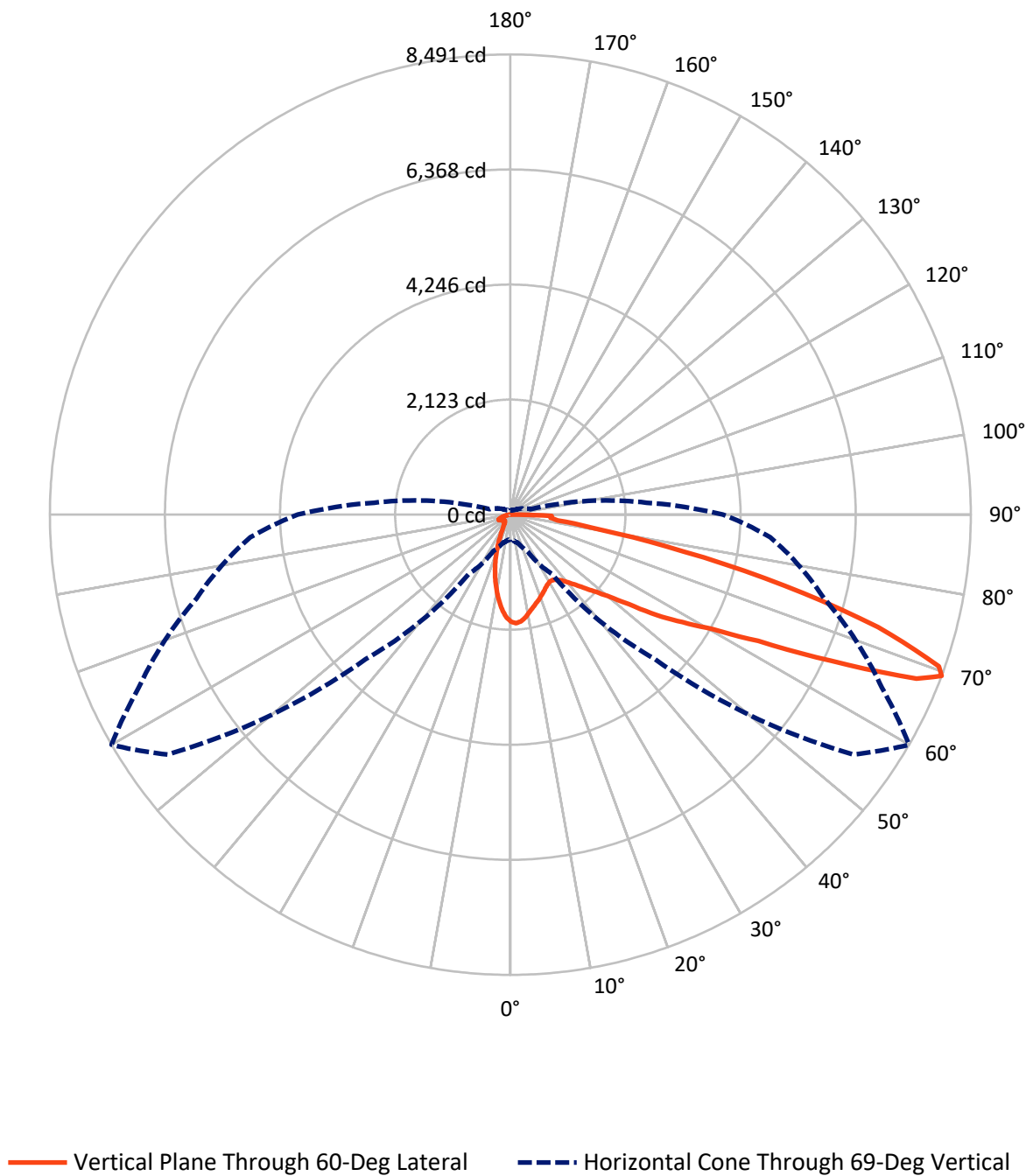


Based on 10 foot mounting height. Maximum calculated value = 19.8 fc  
 Type III - Medium - Non-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1104.3   | 0.0    | 1104.3 |
|                    | % Fixture | 14.2     | 0.0    | 14.2   |
| <b>Street Side</b> | Lumens    | 6657.5   | 0.0    | 6657.5 |
|                    | % Fixture | 85.8     | 0.0    | 85.8   |
| <b>Total</b>       | Lumens    | 7761.8   | 0.0    | 7761.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 167.2  | 2.2       |
| 10°-20°   | 356.3  | 4.6       |
| 20°-30°   | 454.0  | 5.8       |
| 30°-40°   | 624.1  | 8.0       |
| 40°-50°   | 1012.7 | 13.0      |
| 50°-60°   | 1624.1 | 20.9      |
| 60°-70°   | 2161.6 | 27.8      |
| 70°-80°   | 1167.1 | 15.0      |
| 80°-90°   | 194.7  | 2.5       |
| 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°    | 7761.8 | 100.0     |
| 0°-180°   | 7761.8 | 100.0     |

**Coefficient of Utilization**



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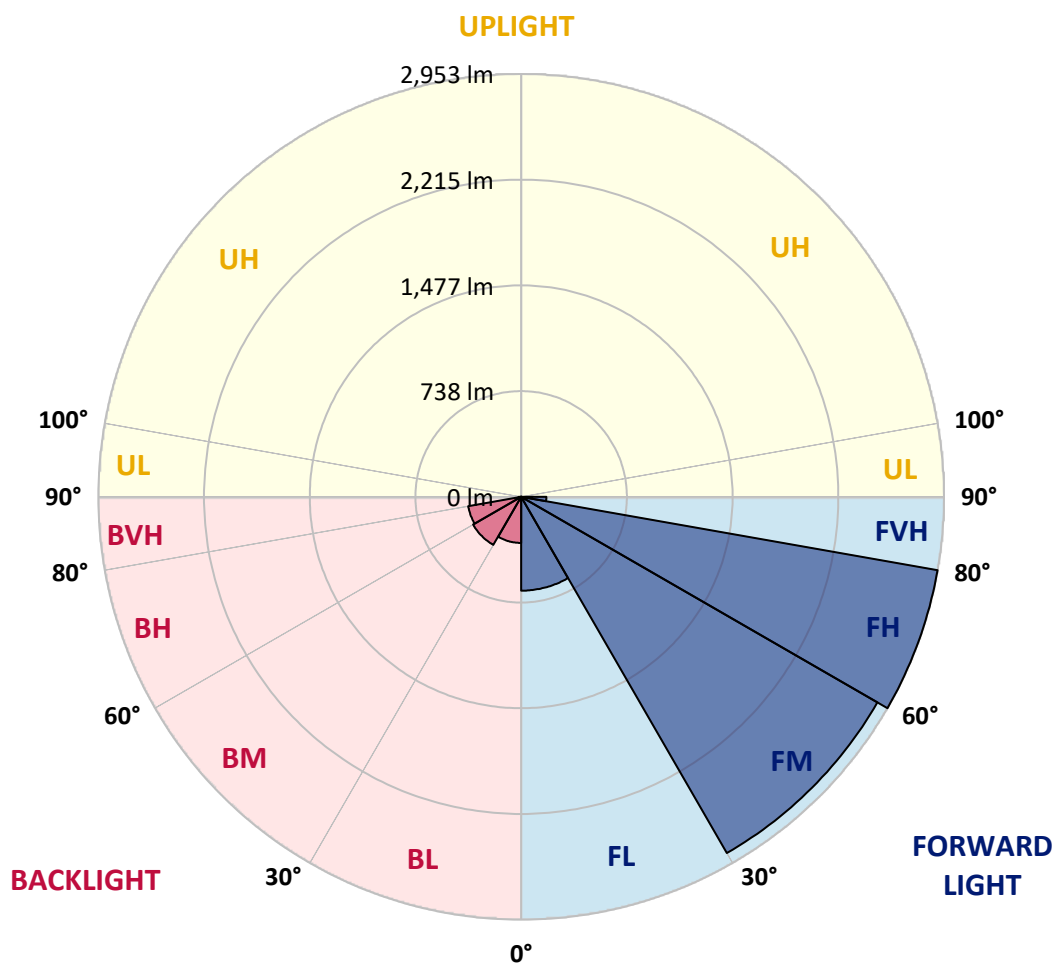
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 655.4  | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 2873.0 | 37.0      |                         |      |         |
| FH   | (60°-80°)   | 2953.2 | 38.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 176.0  | 2.3       |                         |      | G2/225  |
| BL   | (0°-30°)    | 322.1  | 4.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 387.9  | 5.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 375.4  | 4.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 18.8   | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1977.8 | 1977.8 | 1977.8 | 1977.8 | 1977.8 | 1977.8 | 1977.8 | 1977.8 | 1977.8 | 1977.8 | 1977.8 |
| 2.5°  | 2018.3 | 2022.8 | 2021.0 | 2019.7 | 2023.2 | 2017.9 | 2007.1 | 2003.7 | 1998.5 | 1986.2 | 1965.0 |
| 5°    | 1942.5 | 1956.1 | 1955.3 | 1965.5 | 1982.3 | 1986.8 | 1982.0 | 1982.7 | 1972.9 | 1957.6 | 1922.8 |
| 7.5°  | 1811.7 | 1817.3 | 1820.4 | 1842.4 | 1873.2 | 1898.0 | 1918.9 | 1925.7 | 1921.3 | 1908.1 | 1863.1 |
| 10°   | 1676.7 | 1681.3 | 1688.4 | 1714.3 | 1753.2 | 1787.4 | 1827.2 | 1850.0 | 1859.7 | 1857.5 | 1807.2 |
| 12.5° | 1560.9 | 1565.3 | 1574.8 | 1604.0 | 1650.5 | 1692.5 | 1750.3 | 1778.7 | 1802.0 | 1815.9 | 1761.8 |
| 15°   | 1457.0 | 1466.8 | 1475.8 | 1509.5 | 1561.7 | 1616.7 | 1681.9 | 1718.0 | 1753.9 | 1785.1 | 1721.7 |
| 17.5° | 1376.0 | 1385.7 | 1391.1 | 1421.8 | 1477.3 | 1544.7 | 1621.3 | 1663.6 | 1708.6 | 1759.6 | 1681.9 |
| 20°   | 1329.1 | 1333.6 | 1331.5 | 1348.7 | 1398.5 | 1470.2 | 1560.9 | 1610.1 | 1664.3 | 1735.6 | 1642.2 |
| 22.5° | 1316.0 | 1316.5 | 1308.2 | 1306.3 | 1338.5 | 1398.9 | 1496.5 | 1556.0 | 1622.7 | 1719.8 | 1608.1 |
| 25°   | 1347.9 | 1346.8 | 1324.3 | 1305.9 | 1309.3 | 1344.6 | 1434.1 | 1503.5 | 1587.9 | 1716.5 | 1581.8 |
| 27.5° | 1418.7 | 1422.1 | 1388.8 | 1354.3 | 1320.2 | 1319.1 | 1386.9 | 1460.0 | 1559.3 | 1731.9 | 1570.6 |
| 30°   | 1518.1 | 1523.7 | 1488.1 | 1444.3 | 1380.2 | 1327.3 | 1368.6 | 1434.1 | 1541.7 | 1763.8 | 1568.8 |
| 32.5° | 1626.9 | 1632.9 | 1605.9 | 1559.7 | 1475.8 | 1378.3 | 1381.2 | 1436.4 | 1541.0 | 1808.4 | 1581.5 |
| 35°   | 1742.6 | 1749.5 | 1735.6 | 1696.6 | 1603.3 | 1472.4 | 1429.9 | 1472.9 | 1565.3 | 1876.6 | 1615.6 |
| 37.5° | 1872.0 | 1882.5 | 1886.4 | 1849.2 | 1749.5 | 1596.5 | 1509.9 | 1541.7 | 1620.6 | 1971.5 | 1678.2 |
| 40°   | 2058.5 | 2073.0 | 2071.9 | 2018.7 | 1917.1 | 1764.1 | 1633.2 | 1641.5 | 1706.4 | 2098.3 | 1778.3 |
| 42.5° | 2415.4 | 2418.4 | 2325.0 | 2209.1 | 2101.6 | 1940.3 | 1778.7 | 1771.9 | 1824.8 | 2258.6 | 1925.7 |
| 45°   | 2869.4 | 2857.0 | 2649.3 | 2425.4 | 2294.2 | 2142.8 | 1968.1 | 1935.1 | 1975.2 | 2454.4 | 2110.2 |
| 47.5° | 3246.2 | 3217.8 | 2955.3 | 2646.4 | 2498.2 | 2362.8 | 2190.4 | 2132.6 | 2154.8 | 2676.3 | 2348.6 |
| 50°   | 3377.1 | 3355.7 | 3138.3 | 2830.1 | 2691.4 | 2631.3 | 2464.2 | 2382.4 | 2388.4 | 2941.0 | 2628.0 |
| 52.5° | 3349.1 | 3345.9 | 3200.9 | 2951.2 | 2872.1 | 2913.3 | 2851.7 | 2741.2 | 2682.8 | 3234.9 | 2929.5 |
| 55°   | 3282.5 | 3289.0 | 3236.5 | 3092.1 | 3078.6 | 3185.5 | 3358.3 | 3276.5 | 3094.8 | 3531.6 | 3240.9 |
| 57.5° | 3052.0 | 3068.5 | 3184.1 | 3269.5 | 3411.2 | 3570.1 | 3766.2 | 3743.0 | 3538.4 | 3852.2 | 3611.4 |
| 60°   | 2458.9 | 2497.1 | 2806.8 | 3234.9 | 3753.5 | 4250.7 | 4338.4 | 4284.5 | 3995.7 | 4249.9 | 4100.7 |
| 62.5° | 1722.9 | 1762.6 | 2130.8 | 2800.9 | 3697.4 | 5019.4 | 5361.3 | 5128.4 | 4652.7 | 4836.1 | 4733.9 |
| 65°   | 922.3  | 941.5  | 1222.7 | 1943.2 | 3121.4 | 5177.9 | 6856.2 | 6501.9 | 5692.7 | 5558.6 | 5275.8 |
| 67.5° | 508.8  | 519.3  | 626.9  | 981.2  | 1999.2 | 4559.7 | 7808.5 | 8076.2 | 6992.7 | 6039.6 | 5177.2 |
| 69°   | 460.1  | 469.9  | 540.3  | 743.2  | 1337.8 | 3770.0 | 7715.6 | 8491.3 | 7562.6 | 5992.0 | 4812.8 |
| 70°   | 449.9  | 458.9  | 522.3  | 685.0  | 1082.9 | 3107.6 | 7404.0 | 8385.2 | 7698.3 | 5821.4 | 4494.8 |
| 72.5° | 405.0  | 414.6  | 476.2  | 615.2  | 925.3  | 1549.3 | 5864.8 | 7089.8 | 6989.4 | 5047.4 | 3409.3 |
| 75°   | 377.6  | 386.6  | 490.8  | 602.6  | 886.0  | 980.5  | 3866.3 | 5225.3 | 5137.8 | 3530.8 | 1838.3 |
| 77.5° | 161.6  | 160.8  | 227.6  | 509.9  | 899.1  | 949.4  | 2077.6 | 3264.2 | 2978.2 | 1509.1 | 527.9  |
| 80°   | 107.9  | 106.1  | 107.9  | 150.0  | 824.5  | 954.6  | 1088.4 | 1656.9 | 1251.6 | 384.7  | 260.2  |
| 82.5° | 93.0   | 91.4   | 94.8   | 91.4   | 289.9  | 1089.6 | 925.3  | 881.0  | 595.0  | 218.6  | 128.9  |
| 85°   | 62.6   | 60.0   | 81.7   | 82.2   | 136.9  | 968.1  | 1042.4 | 744.3  | 481.4  | 129.7  | 63.7   |
| 87.5° | 30.0   | 29.3   | 47.6   | 58.1   | 80.2   | 393.4  | 1169.4 | 762.6  | 485.5  | 66.3   | 30.4   |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1977.8 | 1977.8 | 1977.8 | 1977.8 | 1977.8 | 1977.8 | 1977.8 | 1977.8 | 1977.8 | 1977.8 | 1977.8 |
| 2.5°  | 1958.7 | 1943.2 | 1928.3 | 1910.3 | 1891.6 | 1870.6 | 1860.1 | 1849.5 | 1846.9 | 1844.0 | 1833.5 |
| 5°    | 1904.7 | 1883.0 | 1845.5 | 1804.2 | 1760.7 | 1718.3 | 1686.1 | 1665.8 | 1650.5 | 1642.6 | 1628.7 |
| 7.5°  | 1835.0 | 1803.1 | 1737.4 | 1666.2 | 1593.1 | 1526.4 | 1468.7 | 1432.3 | 1397.8 | 1381.7 | 1363.3 |
| 10°   | 1768.6 | 1721.0 | 1619.0 | 1514.0 | 1409.0 | 1308.2 | 1213.4 | 1146.2 | 1086.6 | 1053.3 | 1029.6 |
| 12.5° | 1711.6 | 1646.3 | 1505.0 | 1362.9 | 1218.9 | 1075.3 | 933.2  | 821.5  | 728.1  | 679.0  | 653.9  |
| 15°   | 1656.2 | 1577.3 | 1396.7 | 1216.3 | 1031.5 | 836.2  | 649.4  | 522.7  | 445.4  | 414.6  | 404.2  |
| 17.5° | 1605.9 | 1505.0 | 1287.9 | 1068.5 | 838.0  | 601.8  | 436.4  | 366.7  | 337.1  | 326.9  | 323.6  |
| 20°   | 1551.5 | 1432.0 | 1175.1 | 914.1  | 636.3  | 420.6  | 340.8  | 310.1  | 298.1  | 295.1  | 293.6  |
| 22.5° | 1499.0 | 1360.0 | 1067.1 | 748.8  | 457.0  | 324.7  | 292.9  | 280.0  | 278.2  | 280.8  | 280.8  |
| 25°   | 1454.4 | 1295.4 | 950.4  | 575.9  | 335.5  | 273.3  | 262.1  | 259.1  | 266.1  | 276.0  | 277.8  |
| 27.5° | 1421.0 | 1242.6 | 826.3  | 425.2  | 267.3  | 237.7  | 237.3  | 242.2  | 259.8  | 278.6  | 282.3  |
| 30°   | 1398.2 | 1192.3 | 693.7  | 306.7  | 224.2  | 209.2  | 215.2  | 225.7  | 251.7  | 278.2  | 285.3  |
| 32.5° | 1386.5 | 1155.2 | 555.2  | 237.3  | 192.0  | 183.8  | 193.8  | 206.6  | 232.0  | 256.9  | 266.1  |
| 35°   | 1395.6 | 1127.8 | 424.8  | 198.0  | 169.5  | 163.2  | 173.6  | 186.0  | 200.9  | 211.4  | 218.6  |
| 37.5° | 1429.3 | 1116.9 | 320.5  | 177.3  | 154.0  | 148.1  | 156.3  | 163.5  | 169.5  | 172.5  | 175.8  |
| 40°   | 1502.0 | 1128.5 | 256.9  | 166.8  | 145.5  | 138.0  | 141.4  | 144.0  | 147.7  | 150.8  | 152.2  |
| 42.5° | 1609.3 | 1163.4 | 230.2  | 162.7  | 141.0  | 130.1  | 129.4  | 130.4  | 135.4  | 141.0  | 142.1  |
| 45°   | 1759.2 | 1224.9 | 228.4  | 165.3  | 138.8  | 123.7  | 120.4  | 121.9  | 129.4  | 138.0  | 139.6  |
| 47.5° | 1950.9 | 1318.6 | 243.3  | 173.1  | 140.6  | 120.4  | 114.7  | 116.6  | 125.9  | 137.5  | 139.6  |
| 50°   | 2182.9 | 1449.6 | 268.4  | 184.8  | 148.8  | 121.1  | 112.9  | 113.9  | 123.7  | 136.5  | 138.3  |
| 52.5° | 2457.0 | 1635.2 | 295.9  | 196.1  | 157.5  | 125.9  | 114.4  | 111.8  | 120.7  | 131.9  | 134.3  |
| 55°   | 2761.8 | 1873.2 | 324.0  | 206.2  | 161.9  | 131.9  | 117.4  | 108.7  | 115.2  | 124.4  | 126.3  |
| 57.5° | 3136.1 | 2206.2 | 372.7  | 216.0  | 165.0  | 136.1  | 120.4  | 105.8  | 107.9  | 114.7  | 116.3  |
| 60°   | 3642.6 | 2677.1 | 458.6  | 232.0  | 171.7  | 137.5  | 119.9  | 103.1  | 100.8  | 104.6  | 105.3  |
| 62.5° | 4249.6 | 3188.5 | 530.1  | 252.4  | 183.0  | 138.8  | 117.8  | 101.3  | 94.8   | 94.8   | 95.6   |
| 65°   | 4609.8 | 3325.5 | 490.5  | 269.3  | 192.3  | 137.5  | 115.2  | 99.3   | 90.3   | 86.2   | 86.7   |
| 67.5° | 4304.4 | 2924.6 | 420.3  | 272.6  | 192.0  | 132.3  | 111.0  | 96.0   | 85.9   | 79.5   | 79.1   |
| 69°   | 3921.6 | 2523.4 | 388.9  | 263.6  | 183.0  | 125.6  | 105.8  | 92.3   | 82.5   | 75.7   | 75.4   |
| 70°   | 3612.9 | 2278.5 | 368.2  | 253.8  | 173.1  | 120.7  | 101.6  | 88.8   | 79.9   | 73.5   | 72.7   |
| 72.5° | 2626.8 | 1493.0 | 314.5  | 218.2  | 142.8  | 101.3  | 87.7   | 78.0   | 71.2   | 67.5   | 66.7   |
| 75°   | 1312.6 | 712.1  | 255.3  | 177.0  | 109.5  | 81.0   | 72.0   | 65.2   | 61.8   | 61.0   | 60.7   |
| 77.5° | 431.1  | 326.2  | 182.6  | 131.9  | 81.4   | 63.4   | 58.1   | 53.2   | 52.5   | 54.7   | 54.0   |
| 80°   | 237.0  | 189.7  | 115.9  | 87.4   | 55.5   | 46.6   | 45.8   | 43.1   | 44.2   | 48.0   | 47.2   |
| 82.5° | 120.7  | 98.7   | 71.6   | 52.5   | 37.4   | 33.4   | 36.4   | 34.9   | 36.4   | 39.8   | 39.4   |
| 85°   | 59.6   | 54.0   | 45.4   | 31.9   | 24.7   | 21.5   | 25.9   | 27.0   | 27.8   | 30.4   | 30.4   |
| 87.5° | 34.5   | 31.9   | 24.0   | 15.0   | 12.3   | 11.3   | 15.0   | 14.6   | 17.3   | 18.8   | 18.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)