

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: P200600

Luminaire Tested: **GAW-AF-02-LED-E1-SL2-8030**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P200600  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
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-SL2-8030  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 9931 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 113  
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



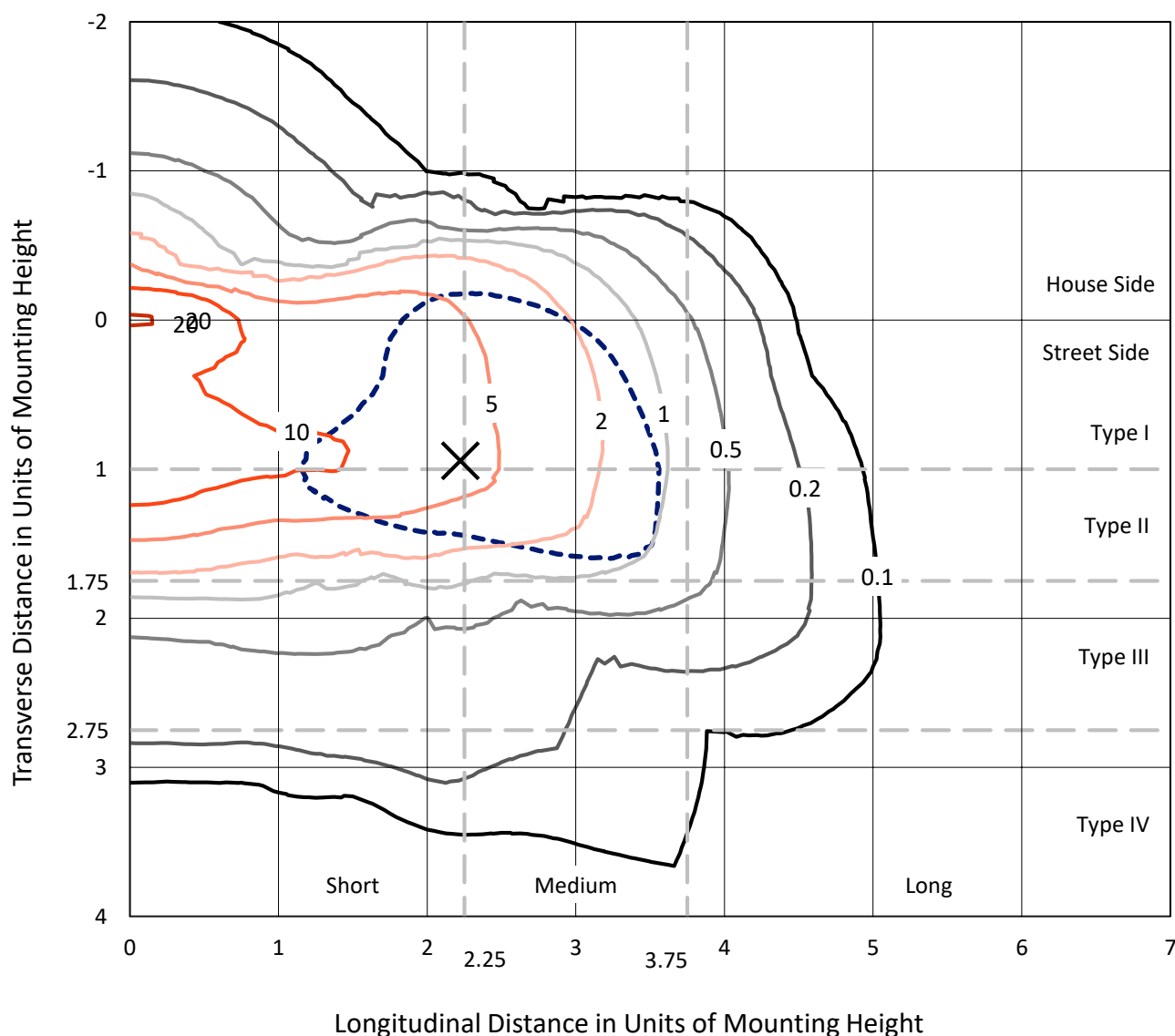
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

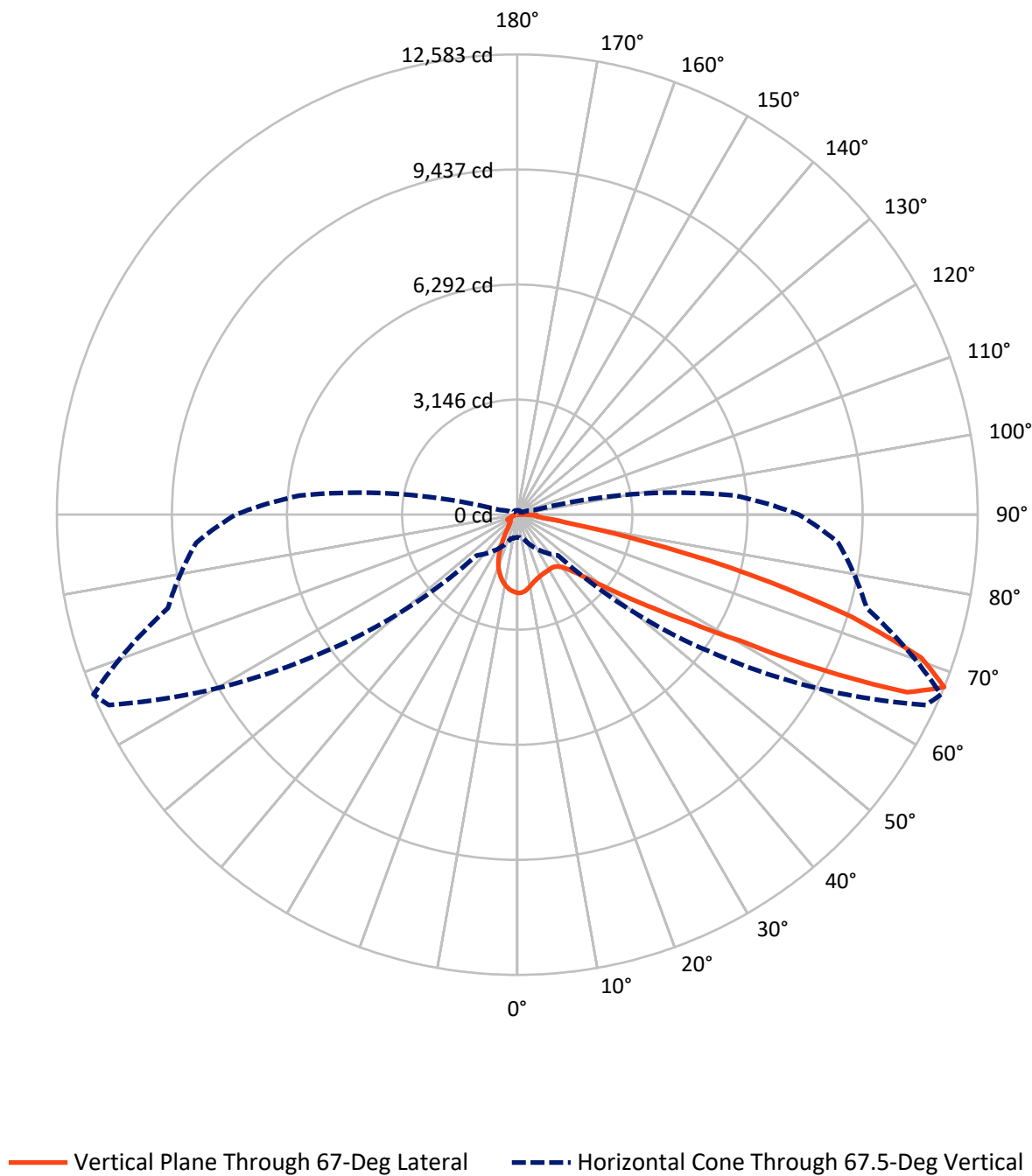


Based on 10 foot mounting height. Maximum calculated value = 21.4 fc  
 Type II - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1645.5   | 0.0    | 1645.5 |
|                    | % Fixture | 16.6     | 0.0    | 16.6   |
| <b>Street Side</b> | Lumens    | 8285.5   | 0.0    | 8285.5 |
|                    | % Fixture | 83.4     | 0.0    | 83.4   |
| <b>Total</b>       | Lumens    | 9931.0   | 0.0    | 9931.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 182.8  | 1.8       |
| 10°-20°   | 422.9  | 4.3       |
| 20°-30°   | 573.2  | 5.8       |
| 30°-40°   | 814.9  | 8.2       |
| 40°-50°   | 1363.3 | 13.7      |
| 50°-60°   | 2156.7 | 21.7      |
| 60°-70°   | 2747.4 | 27.7      |
| 70°-80°   | 1439.1 | 14.5      |
| 80°-90°   | 230.8  | 2.3       |
| 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°    | 9931.0 | 100.0     |
| 0°-180°   | 9931.0 | 100.0     |

**Coefficient of Utilization**



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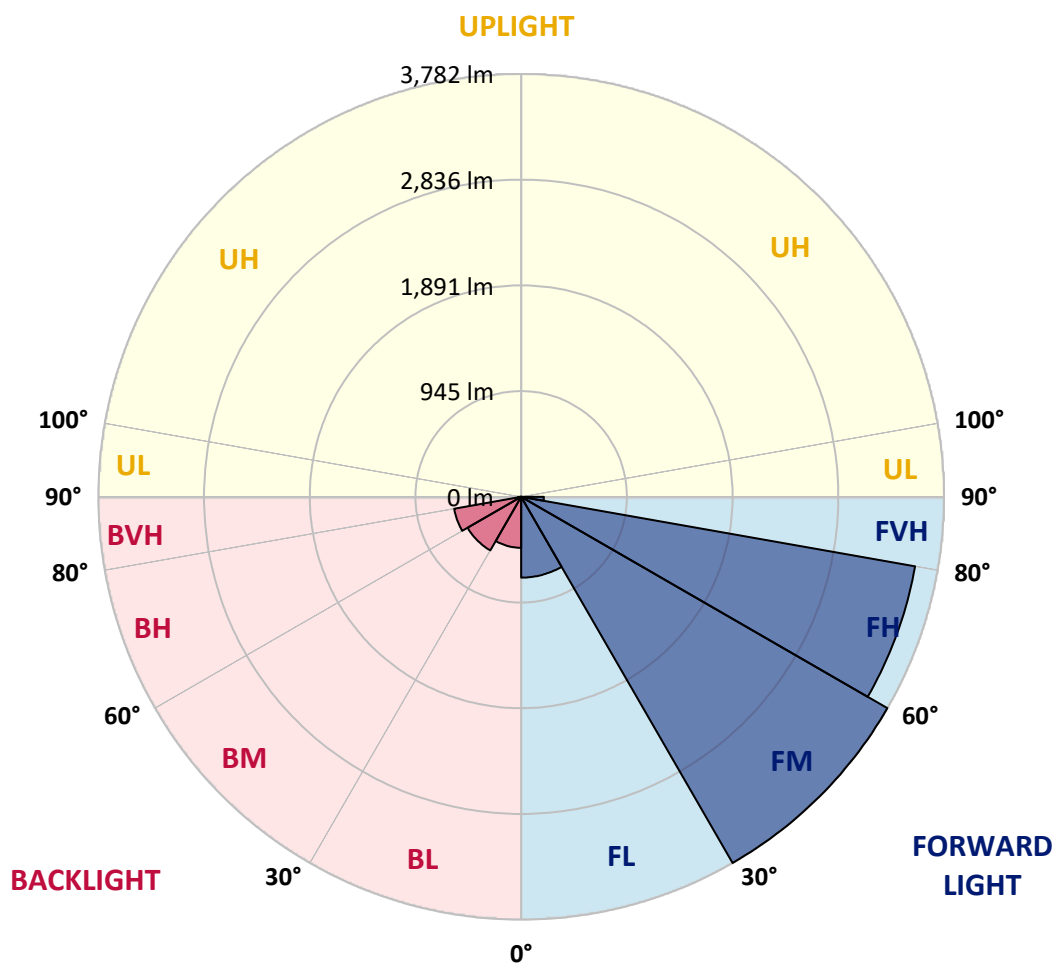
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 722.7  | 7.3       |                         |      |         |
| FM   | (30°-60°)   | 3781.9 | 38.1      |                         |      |         |
| FH   | (60°-80°)   | 3577.9 | 36.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 203.0  | 2.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 456.1  | 4.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 552.9  | 5.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 608.6  | 6.1       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 27.9   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 67°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|
| 0°    | 2142.1 | 2142.1 | 2142.1 | 2142.1 | 2142.1 | 2142.1 | 2142.1 | 2142.1  | 2142.1  | 2142.1  | 2142.1 |
| 2.5°  | 2053.9 | 2057.4 | 2068.1 | 2075.0 | 2105.9 | 2119.1 | 2128.4 | 2137.7  | 2139.2  | 2143.6  | 2139.2 |
| 5°    | 1838.5 | 1845.8 | 1865.9 | 1888.4 | 1948.2 | 1995.2 | 2044.6 | 2096.1  | 2105.4  | 2138.7  | 2148.0 |
| 7.5°  | 1671.5 | 1669.5 | 1686.2 | 1713.1 | 1774.3 | 1839.4 | 1926.1 | 2028.5  | 2048.6  | 2123.5  | 2159.7 |
| 10°   | 1549.5 | 1548.0 | 1565.7 | 1593.6 | 1651.9 | 1713.6 | 1811.5 | 1951.6  | 1980.0  | 2099.5  | 2171.0 |
| 12.5° | 1459.4 | 1459.9 | 1477.5 | 1508.4 | 1567.6 | 1629.8 | 1729.2 | 1877.1  | 1913.4  | 2071.6  | 2182.7 |
| 15°   | 1399.7 | 1403.6 | 1417.8 | 1450.6 | 1508.4 | 1570.6 | 1668.0 | 1821.3  | 1862.0  | 2049.5  | 2196.0 |
| 17.5° | 1379.6 | 1385.9 | 1390.8 | 1414.8 | 1464.3 | 1526.5 | 1622.0 | 1780.2  | 1823.3  | 2034.4  | 2207.7 |
| 20°   | 1398.2 | 1405.5 | 1396.2 | 1404.6 | 1435.9 | 1490.7 | 1585.8 | 1747.9  | 1791.9  | 2017.2  | 2209.2 |
| 22.5° | 1478.0 | 1484.9 | 1457.4 | 1433.4 | 1431.5 | 1464.8 | 1555.9 | 1722.4  | 1767.9  | 2004.5  | 2209.7 |
| 25°   | 1618.6 | 1623.0 | 1576.9 | 1521.1 | 1466.8 | 1455.5 | 1534.8 | 1704.8  | 1753.2  | 1993.2  | 2200.4 |
| 27.5° | 1791.0 | 1794.4 | 1741.5 | 1659.2 | 1550.0 | 1477.5 | 1527.5 | 1694.5  | 1744.9  | 1983.4  | 2184.7 |
| 30°   | 2000.6 | 2016.7 | 1945.7 | 1841.9 | 1682.7 | 1542.7 | 1542.2 | 1689.1  | 1735.6  | 1966.8  | 2153.8 |
| 32.5° | 2215.1 | 2221.9 | 2172.9 | 2067.7 | 1861.5 | 1657.3 | 1583.3 | 1693.0  | 1733.2  | 1946.7  | 2114.7 |
| 35°   | 2432.5 | 2441.3 | 2409.5 | 2324.8 | 2105.9 | 1825.2 | 1663.6 | 1716.0  | 1748.3  | 1939.8  | 2087.2 |
| 37.5° | 2714.1 | 2725.9 | 2681.8 | 2583.8 | 2403.1 | 2053.0 | 1797.3 | 1773.8  | 1794.9  | 1959.4  | 2078.9 |
| 40°   | 3159.3 | 3153.9 | 3025.1 | 2879.1 | 2728.3 | 2344.4 | 1988.3 | 1871.8  | 1884.0  | 2022.6  | 2104.4 |
| 42.5° | 3677.4 | 3664.2 | 3442.3 | 3213.1 | 3085.8 | 2697.0 | 2241.0 | 2041.7  | 2039.2  | 2147.0  | 2194.0 |
| 45°   | 4090.7 | 4080.0 | 3880.2 | 3597.6 | 3495.7 | 3098.5 | 2567.7 | 2294.9  | 2276.8  | 2344.4  | 2359.5 |
| 47.5° | 4314.5 | 4315.0 | 4200.0 | 3969.3 | 3966.8 | 3608.8 | 2987.4 | 2661.2  | 2629.9  | 2661.7  | 2645.5 |
| 50°   | 4236.2 | 4246.5 | 4234.2 | 4160.8 | 4396.8 | 4277.8 | 3535.4 | 3172.0  | 3108.8  | 3140.2  | 3078.0 |
| 52.5° | 3857.1 | 3870.4 | 3942.8 | 4055.5 | 4577.5 | 5086.4 | 4340.5 | 3806.7  | 3733.2  | 3722.0  | 3652.9 |
| 55°   | 3185.2 | 3201.4 | 3349.3 | 3655.4 | 4427.2 | 5629.5 | 5610.9 | 4615.7  | 4498.7  | 4392.4  | 4363.0 |
| 57.5° | 2195.5 | 2222.4 | 2460.4 | 2914.9 | 3940.9 | 5793.5 | 7123.7 | 5769.1  | 5531.0  | 5159.8  | 5166.7 |
| 60°   | 1237.6 | 1268.9 | 1549.5 | 1962.4 | 2959.5 | 5615.3 | 8274.5 | 7515.9  | 7013.5  | 6058.5  | 6109.4 |
| 62.5° | 787.0  | 820.8  | 1033.8 | 1363.4 | 1775.8 | 4655.4 | 8746.1 | 9944.5  | 9306.4  | 7166.3  | 7216.2 |
| 65°   | 637.1  | 651.8  | 752.2  | 1125.4 | 1289.5 | 2804.7 | 8388.1 | 11945.1 | 11707.1 | 8572.3  | 8339.2 |
| 67.5° | 622.0  | 626.9  | 678.8  | 944.7  | 1236.6 | 1576.5 | 6690.7 | 12319.2 | 12583.2 | 9885.3  | 8806.9 |
| 70°   | 614.6  | 631.8  | 765.0  | 901.6  | 1184.2 | 1329.6 | 4020.7 | 11293.7 | 11710.5 | 10228.6 | 8184.4 |
| 72.5° | 298.2  | 297.3  | 384.9  | 815.4  | 1334.0 | 1379.1 | 2065.7 | 9137.9  | 9556.2  | 8861.7  | 6725.5 |
| 75°   | 240.5  | 219.9  | 210.1  | 298.7  | 1282.6 | 1424.1 | 1316.4 | 6287.7  | 6590.3  | 5941.4  | 4134.3 |
| 77.5° | 228.2  | 203.7  | 186.6  | 187.1  | 542.1  | 1510.3 | 1115.1 | 3480.0  | 3568.2  | 2683.7  | 1132.8 |
| 80°   | 189.0  | 166.5  | 154.3  | 173.9  | 262.5  | 1438.3 | 1205.7 | 1575.0  | 1445.2  | 659.2   | 377.1  |
| 82.5° | 131.2  | 119.5  | 116.1  | 145.9  | 210.1  | 1025.0 | 1402.1 | 846.3   | 709.6   | 330.1   | 232.6  |
| 85°   | 83.7   | 71.5   | 79.3   | 106.3  | 163.6  | 473.1  | 1444.2 | 659.7   | 524.5   | 209.6   | 131.2  |
| 87.5° | 38.7   | 31.3   | 39.2   | 58.8   | 106.8  | 163.1  | 1374.2 | 741.0   | 540.2   | 110.7   | 82.8   |
| 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°    | 2142.1 | 2142.1 | 2142.1 | 2142.1 | 2142.1 | 2142.1 | 2142.1 | 2142.1 | 2142.1 | 2142.1 | 2142.1 |
| 2.5°  | 2143.1 | 2133.8 | 2126.4 | 2112.7 | 2097.5 | 2082.8 | 2069.6 | 2053.0 | 2048.1 | 2043.7 | 2050.5 |
| 5°    | 2149.9 | 2140.6 | 2113.7 | 2071.6 | 2025.0 | 1981.5 | 1937.9 | 1900.7 | 1877.6 | 1864.9 | 1872.2 |
| 7.5°  | 2160.2 | 2147.0 | 2091.2 | 2013.8 | 1930.0 | 1853.6 | 1774.8 | 1711.6 | 1665.1 | 1643.1 | 1649.4 |
| 10°   | 2169.5 | 2144.1 | 2053.0 | 1936.9 | 1814.5 | 1700.8 | 1576.5 | 1473.6 | 1397.2 | 1357.1 | 1366.8 |
| 12.5° | 2173.4 | 2132.8 | 1999.6 | 1840.9 | 1672.9 | 1506.4 | 1323.3 | 1169.5 | 1059.8 | 1019.6 | 1011.3 |
| 15°   | 2177.4 | 2120.1 | 1940.8 | 1731.7 | 1502.0 | 1266.4 | 1009.8 | 825.7  | 734.6  | 714.5  | 710.1  |
| 17.5° | 2178.3 | 2098.0 | 1874.2 | 1613.2 | 1301.7 | 980.9  | 690.5  | 573.5  | 574.0  | 606.3  | 610.2  |
| 20°   | 2168.0 | 2065.2 | 1793.4 | 1465.8 | 1061.7 | 678.3  | 474.1  | 454.0  | 527.9  | 608.7  | 618.5  |
| 22.5° | 2144.5 | 2021.6 | 1701.8 | 1293.9 | 787.0  | 446.6  | 366.8  | 388.8  | 484.3  | 583.3  | 594.5  |
| 25°   | 2114.7 | 1968.7 | 1593.6 | 1094.6 | 521.1  | 319.3  | 307.6  | 334.5  | 399.1  | 465.2  | 471.6  |
| 27.5° | 2074.0 | 1906.0 | 1472.1 | 866.3  | 338.4  | 263.0  | 270.8  | 288.9  | 315.4  | 344.8  | 347.7  |
| 30°   | 2021.6 | 1831.1 | 1342.4 | 631.8  | 255.6  | 236.5  | 247.8  | 257.6  | 268.9  | 285.5  | 287.0  |
| 32.5° | 1961.4 | 1759.1 | 1209.2 | 436.4  | 226.7  | 222.8  | 231.6  | 236.5  | 245.4  | 255.6  | 256.6  |
| 35°   | 1910.9 | 1690.6 | 1071.0 | 308.5  | 214.5  | 212.5  | 218.4  | 220.4  | 228.7  | 240.0  | 240.9  |
| 37.5° | 1882.0 | 1634.7 | 928.5  | 248.8  | 206.2  | 203.2  | 206.7  | 206.7  | 218.4  | 235.1  | 237.5  |
| 40°   | 1884.0 | 1603.9 | 786.0  | 224.8  | 199.3  | 195.4  | 195.9  | 195.9  | 211.1  | 229.2  | 230.7  |
| 42.5° | 1937.4 | 1611.7 | 659.7  | 215.5  | 193.9  | 189.5  | 187.1  | 188.5  | 201.3  | 213.0  | 214.0  |
| 45°   | 2062.8 | 1667.1 | 541.2  | 209.6  | 188.5  | 187.1  | 181.7  | 181.2  | 186.1  | 191.5  | 191.5  |
| 47.5° | 2268.4 | 1776.3 | 460.8  | 205.7  | 184.1  | 183.6  | 177.3  | 170.9  | 170.4  | 172.4  | 172.4  |
| 50°   | 2602.9 | 1964.3 | 407.0  | 201.3  | 181.2  | 177.3  | 169.9  | 160.1  | 156.7  | 158.2  | 158.2  |
| 52.5° | 3104.4 | 2299.8 | 386.4  | 195.4  | 174.8  | 168.5  | 160.1  | 150.3  | 147.4  | 147.9  | 147.9  |
| 55°   | 3762.1 | 2815.0 | 383.5  | 188.5  | 168.0  | 157.7  | 150.8  | 143.5  | 140.1  | 141.0  | 141.0  |
| 57.5° | 4565.8 | 3527.5 | 435.9  | 177.8  | 158.7  | 146.9  | 143.0  | 138.1  | 135.7  | 137.1  | 136.6  |
| 60°   | 5542.8 | 4460.0 | 646.4  | 166.5  | 149.4  | 137.1  | 137.1  | 133.2  | 131.2  | 132.7  | 132.2  |
| 62.5° | 6668.2 | 5531.0 | 908.9  | 158.2  | 139.6  | 129.3  | 131.2  | 129.3  | 127.3  | 128.3  | 127.8  |
| 65°   | 7666.3 | 6228.9 | 851.2  | 151.8  | 129.8  | 121.9  | 125.4  | 124.4  | 122.9  | 123.9  | 123.4  |
| 67.5° | 7695.2 | 5970.3 | 478.0  | 145.0  | 120.5  | 114.6  | 119.5  | 119.0  | 118.0  | 119.0  | 118.5  |
| 70°   | 6867.5 | 5041.3 | 269.4  | 132.2  | 110.7  | 105.8  | 112.6  | 112.1  | 111.2  | 113.1  | 112.6  |
| 72.5° | 5502.2 | 3658.3 | 196.9  | 116.6  | 100.9  | 96.5   | 104.3  | 103.8  | 103.8  | 106.8  | 105.3  |
| 75°   | 3166.1 | 1882.5 | 157.2  | 99.9   | 90.6   | 87.2   | 94.0   | 94.5   | 95.5   | 99.4   | 96.5   |
| 77.5° | 902.6  | 586.7  | 128.3  | 84.7   | 77.9   | 76.4   | 83.3   | 84.2   | 84.7   | 89.1   | 85.2   |
| 80°   | 335.5  | 270.3  | 105.8  | 71.0   | 63.7   | 64.2   | 70.5   | 72.0   | 72.5   | 76.9   | 72.0   |
| 82.5° | 214.0  | 178.3  | 85.7   | 54.9   | 50.0   | 49.5   | 57.3   | 59.3   | 59.3   | 59.7   | 56.8   |
| 85°   | 124.9  | 106.8  | 64.6   | 39.7   | 35.3   | 33.8   | 42.6   | 46.0   | 44.6   | 43.6   | 41.6   |
| 87.5° | 83.7   | 73.5   | 39.7   | 22.0   | 19.1   | 18.1   | 25.0   | 27.4   | 26.4   | 25.0   | 23.5   |
| 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)