

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P367020

Luminaire Tested: **PMM-SA1D-730-U-RW**

Issue Date: 12/2/2019

Report Generated By 670245982

**Test Information**

Test Method: LM-79-08  
Report Number: P367020  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA1D-730-U-RW  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

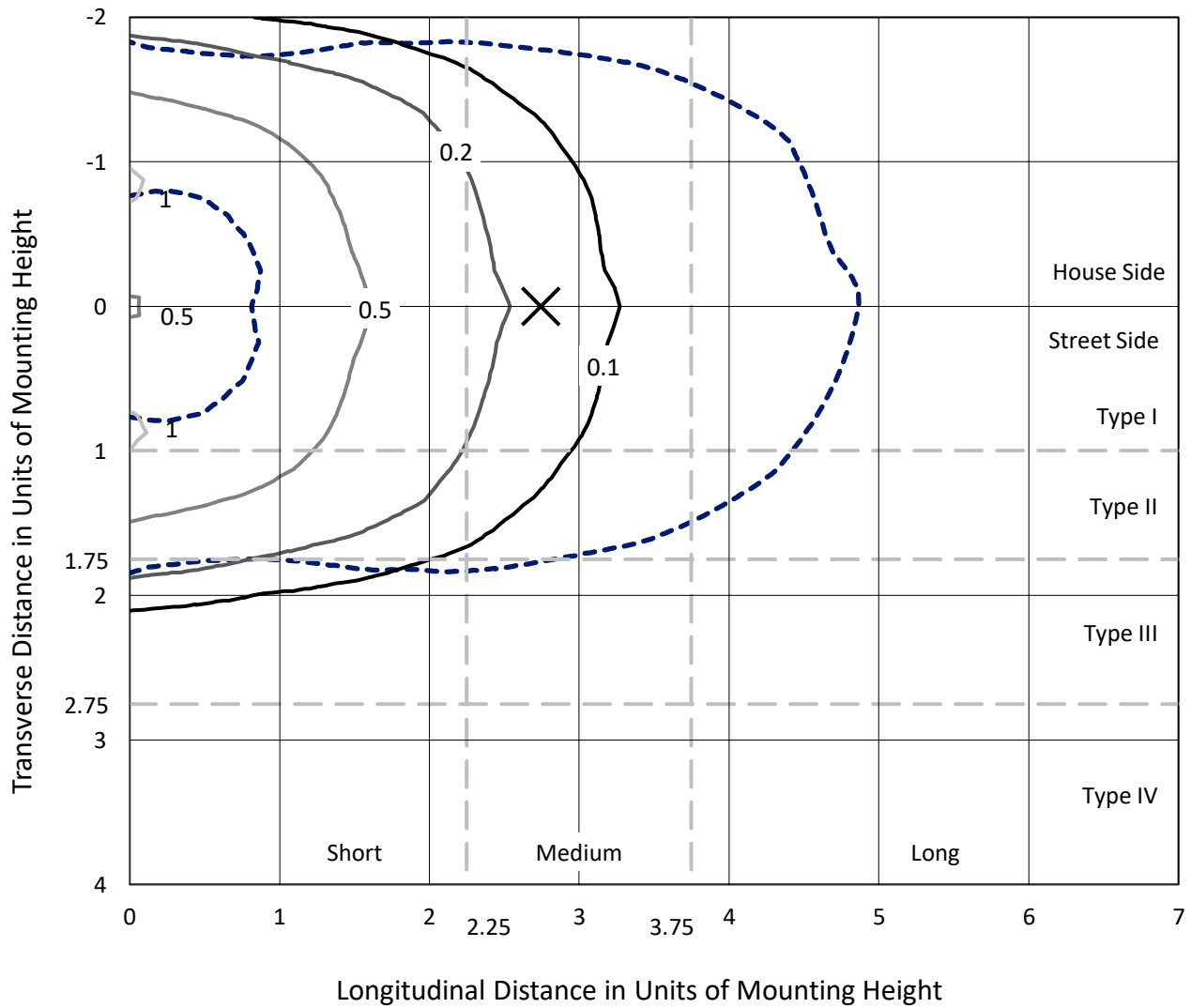
Lumens per Lamp: N/A  
Luminaire Lumens: 6414 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

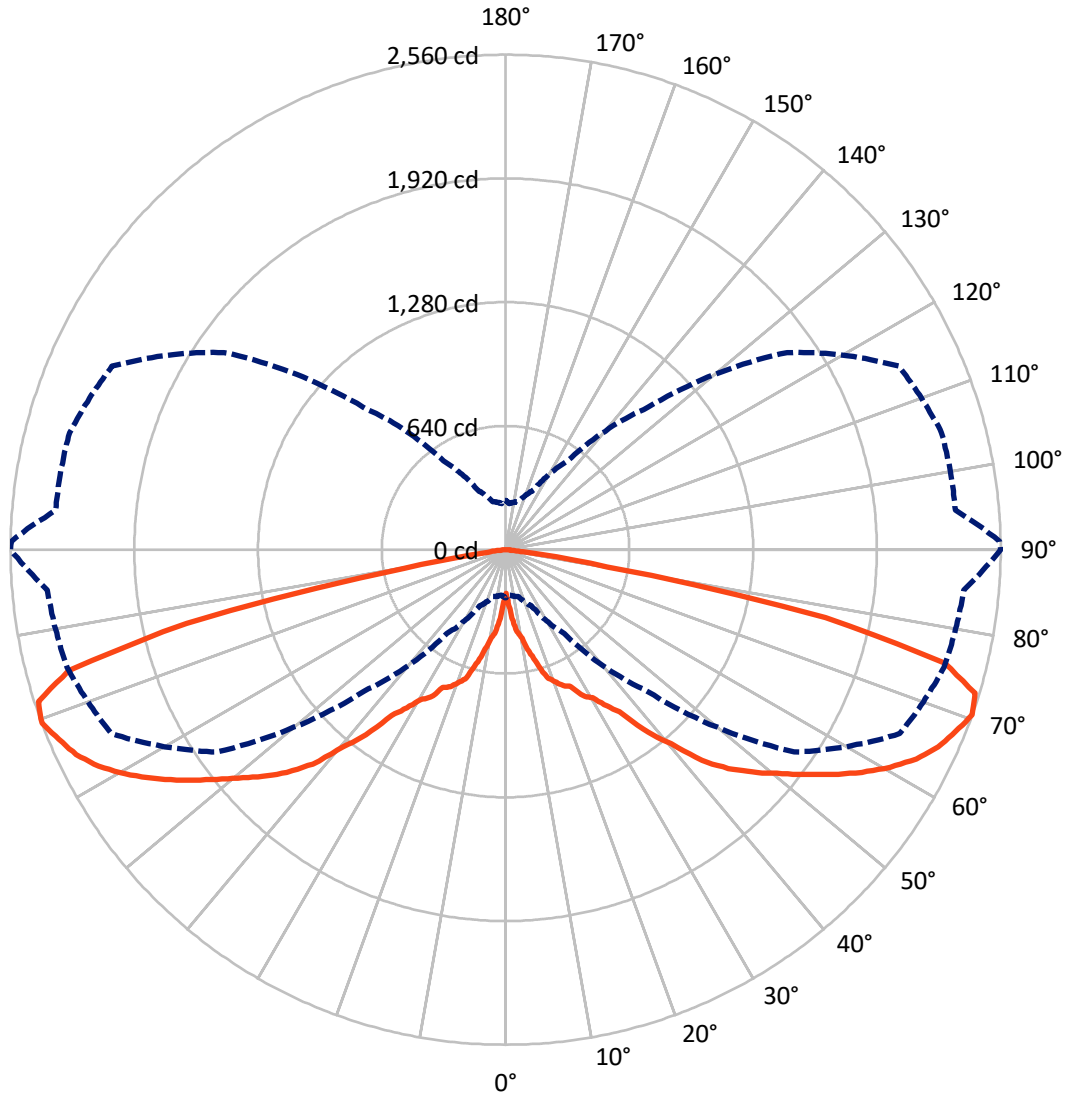
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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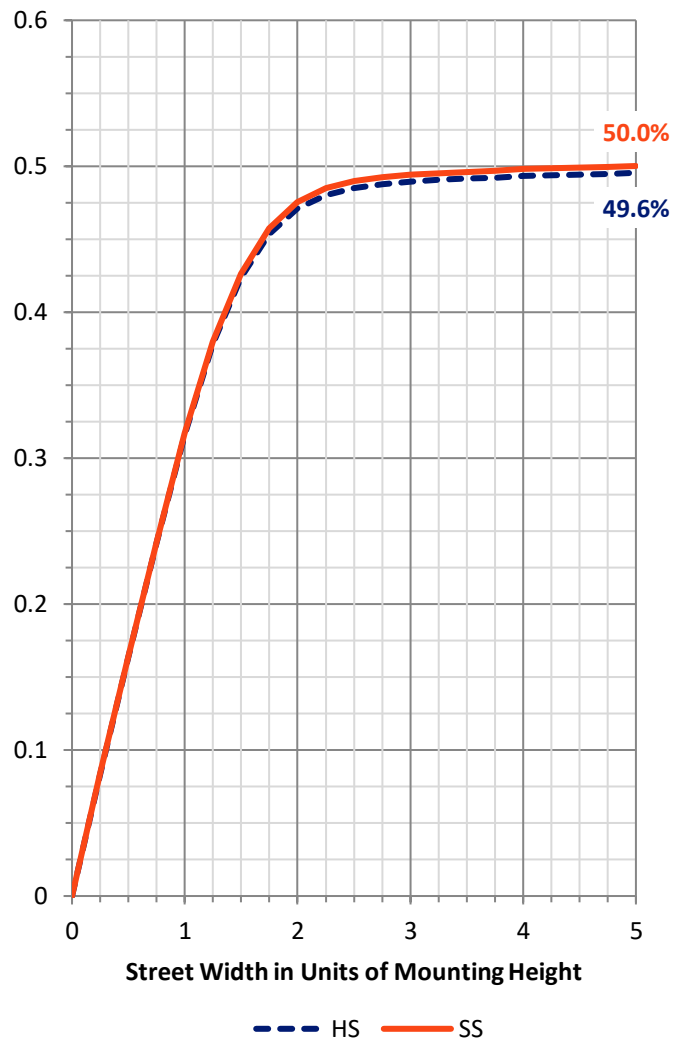
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3195.1   | 0.0    | 3195.1 |
|                    | % Fixture | 49.8     | 0.0    | 49.8   |
| <b>Street Side</b> | Lumens    | 3218.9   | 0.0    | 3218.9 |
|                    | % Fixture | 50.2     | 0.0    | 50.2   |
| <b>Total</b>       | Lumens    | 6414.0   | 0.0    | 6414.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 34.0   | 0.5       |
| 10°-20°   | 155.6  | 2.4       |
| 20°-30°   | 336.5  | 5.2       |
| 30°-40°   | 642.1  | 10.0      |
| 40°-50°   | 1166.4 | 18.2      |
| 50°-60°   | 1638.5 | 25.5      |
| 60°-70°   | 1564.4 | 24.4      |
| 70°-80°   | 802.9  | 12.5      |
| 80°-90°   | 73.6   | 1.1       |
| 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°    | 6414.0 | 100.0     |
| 0°-180°   | 6414.0 | 100.0     |

**Coefficient of Utilization**

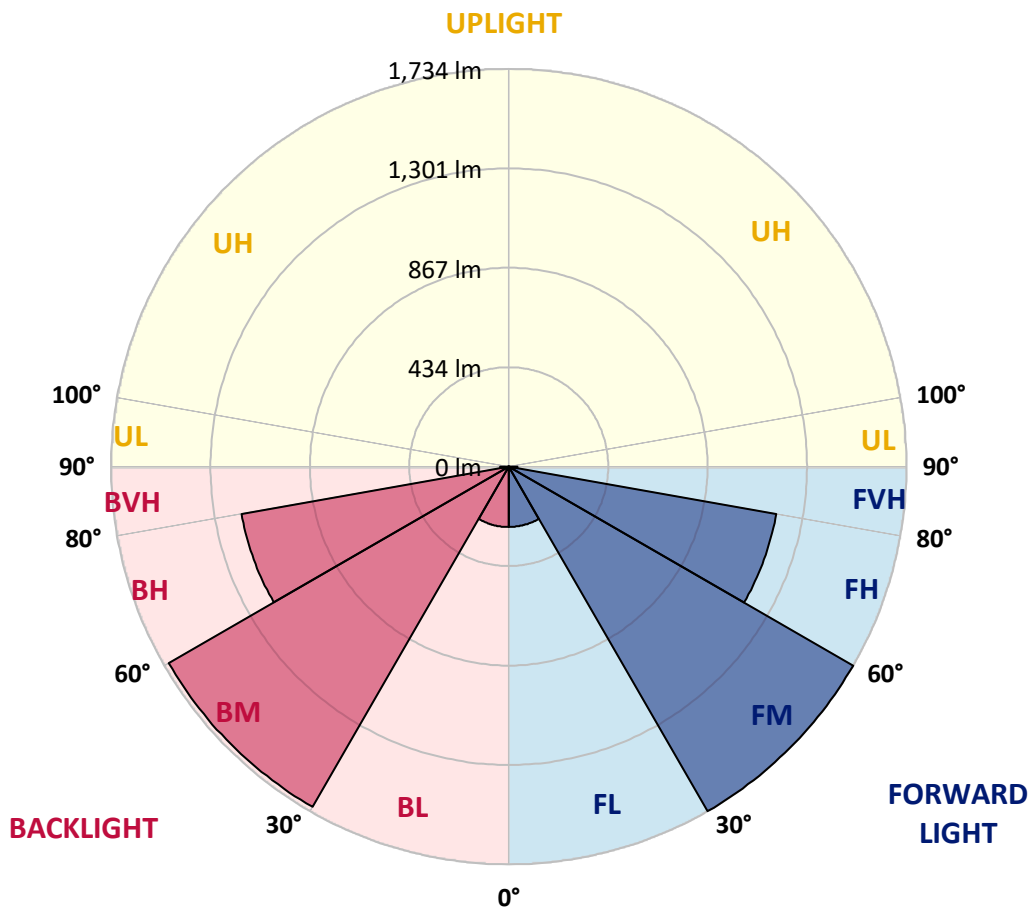


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 262.8  | 4.1       |                         |      |         |
| FM (30°-60°)   | 1734.4 | 27.0      |                         |      |         |
| FH (60°-80°)   | 1184.3 | 18.5      |                         |      | G1/1800 |
| FVH (80°-90°)  | 37.4   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 263.3  | 4.1       | B1/500                  |      |         |
| BM (30°-60°)   | 1712.5 | 26.7      | B2/2500                 |      |         |
| BH (60°-80°)   | 1183.0 | 18.4      | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 36.3   | 0.6       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 225.1  | 225.1  | 225.1  | 225.1  | 225.1  | 225.1  | 225.1  | 225.1  | 225.1  | 225.1  | 225.1  |
| 2.5°  | 272.7  | 262.5  | 249.8  | 257.4  | 260.5  | 265.9  | 265.1  | 262.5  | 251.4  | 270.1  | 272.2  |
| 5°    | 341.3  | 325.2  | 319.2  | 318.2  | 319.7  | 314.5  | 331.4  | 326.5  | 335.6  | 352.5  | 356.4  |
| 7.5°  | 388.6  | 376.7  | 363.9  | 367.8  | 351.7  | 349.4  | 371.2  | 390.7  | 395.6  | 426.6  | 428.7  |
| 10°   | 411.0  | 399.3  | 402.7  | 400.3  | 398.5  | 413.6  | 423.7  | 438.0  | 458.6  | 461.4  | 465.8  |
| 12.5° | 430.0  | 434.6  | 449.5  | 448.9  | 473.4  | 500.1  | 496.2  | 511.1  | 514.4  | 550.3  | 539.4  |
| 15°   | 478.0  | 487.7  | 486.6  | 495.7  | 506.4  | 550.3  | 550.6  | 575.8  | 598.9  | 613.0  | 609.3  |
| 17.5° | 548.5  | 551.9  | 537.8  | 538.4  | 569.3  | 587.2  | 607.2  | 602.8  | 663.1  | 690.7  | 692.5  |
| 20°   | 590.6  | 599.2  | 583.1  | 561.8  | 616.6  | 641.3  | 652.5  | 626.7  | 691.2  | 728.4  | 728.4  |
| 22.5° | 664.2  | 642.1  | 617.6  | 603.3  | 651.7  | 678.0  | 676.7  | 669.4  | 703.7  | 769.5  | 763.2  |
| 25°   | 704.7  | 692.2  | 680.0  | 683.7  | 708.1  | 721.6  | 739.6  | 722.7  | 754.9  | 803.8  | 783.2  |
| 27.5° | 781.7  | 758.5  | 698.5  | 746.3  | 746.3  | 736.2  | 774.1  | 782.2  | 761.1  | 840.7  | 856.0  |
| 30°   | 868.8  | 860.7  | 775.7  | 826.4  | 810.8  | 782.2  | 855.0  | 849.8  | 814.4  | 895.5  | 888.5  |
| 32.5° | 951.2  | 977.7  | 897.1  | 869.3  | 892.7  | 903.6  | 865.4  | 881.0  | 887.7  | 966.0  | 962.6  |
| 35°   | 1077.5 | 1099.8 | 993.0  | 986.0  | 947.0  | 936.9  | 966.0  | 971.2  | 971.7  | 1054.1 | 1039.0 |
| 37.5° | 1296.1 | 1263.9 | 1158.3 | 1108.7 | 1113.1 | 1100.9 | 1106.6 | 1065.5 | 1071.3 | 1190.8 | 1198.4 |
| 40°   | 1456.0 | 1419.6 | 1302.1 | 1266.5 | 1179.1 | 1231.4 | 1185.1 | 1181.0 | 1169.5 | 1324.4 | 1320.3 |
| 42.5° | 1632.5 | 1582.6 | 1452.6 | 1405.0 | 1312.2 | 1290.9 | 1269.6 | 1317.7 | 1314.6 | 1458.1 | 1489.8 |
| 45°   | 1765.8 | 1665.0 | 1597.1 | 1567.5 | 1511.9 | 1459.6 | 1439.3 | 1460.9 | 1451.0 | 1557.6 | 1613.0 |
| 47.5° | 1850.1 | 1762.5 | 1684.5 | 1622.1 | 1568.8 | 1697.0 | 1594.3 | 1565.4 | 1545.4 | 1664.7 | 1718.0 |
| 50°   | 1917.1 | 1816.0 | 1724.0 | 1703.2 | 1745.3 | 1858.6 | 1696.7 | 1633.0 | 1657.4 | 1745.3 | 1817.8 |
| 52.5° | 1935.3 | 1828.2 | 1745.6 | 1732.3 | 1846.2 | 1866.7 | 1840.4 | 1733.3 | 1726.8 | 1842.0 | 1929.6 |
| 55°   | 1879.7 | 1777.0 | 1737.8 | 1810.3 | 1936.1 | 1919.0 | 1959.0 | 1890.6 | 1844.6 | 1940.8 | 2051.0 |
| 57.5° | 1736.5 | 1634.6 | 1625.2 | 1729.7 | 1888.3 | 2034.4 | 2054.1 | 2000.1 | 1939.7 | 2041.6 | 2171.6 |
| 60°   | 1501.2 | 1408.2 | 1431.8 | 1547.2 | 1786.4 | 1994.3 | 2099.4 | 2050.0 | 2031.3 | 2132.6 | 2283.4 |
| 62.5° | 1134.9 | 1062.4 | 1125.6 | 1286.5 | 1600.3 | 1942.6 | 2161.7 | 2153.9 | 2126.9 | 2229.3 | 2382.2 |
| 65°   | 723.7  | 685.5  | 750.0  | 913.5  | 1311.4 | 1848.5 | 2191.6 | 2202.0 | 2227.0 | 2303.9 | 2458.6 |
| 67.5° | 420.6  | 400.3  | 439.6  | 573.5  | 934.0  | 1517.8 | 2136.0 | 2285.2 | 2298.2 | 2342.4 | 2508.8 |
| 70°   | 248.8  | 235.5  | 251.6  | 322.1  | 528.7  | 1034.1 | 1822.0 | 2248.8 | 2347.1 | 2377.8 | 2559.5 |
| 72.5° | 189.8  | 177.3  | 170.3  | 190.5  | 276.1  | 534.2  | 1231.9 | 1906.2 | 2307.8 | 2354.4 | 2538.2 |
| 75°   | 164.0  | 152.1  | 143.8  | 145.6  | 164.3  | 253.7  | 667.8  | 1363.4 | 1966.5 | 2143.8 | 2344.5 |
| 77.5° | 140.9  | 130.2  | 124.3  | 123.7  | 126.1  | 139.3  | 279.2  | 739.3  | 1231.6 | 1541.0 | 1690.2 |
| 80°   | 112.8  | 104.5  | 103.2  | 103.2  | 99.8   | 98.8   | 138.8  | 281.3  | 468.7  | 555.8  | 532.9  |
| 82.5° | 82.4   | 74.1   | 82.4   | 81.4   | 76.2   | 72.0   | 88.4   | 121.7  | 144.5  | 114.1  | 90.2   |
| 85°   | 55.6   | 48.1   | 54.3   | 55.4   | 50.4   | 37.4   | 53.0   | 60.8   | 62.4   | 39.0   | 32.2   |
| 87.5° | 19.5   | 19.0   | 30.7   | 26.8   | 21.8   | 12.7   | 19.5   | 21.1   | 22.1   | 13.8   | 9.4    |
| 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):**

|       | 91°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 225.1  | 225.1  | 225.1  | 225.1  | 225.1  | 225.1  | 225.1  | 225.1  | 225.1  | 225.1  | 225.1  |
| 2.5°  | 272.9  | 269.8  | 254.2  | 256.6  | 262.5  | 265.4  | 268.3  | 256.6  | 250.9  | 269.0  | 267.2  |
| 5°    | 357.4  | 346.0  | 333.3  | 331.4  | 332.2  | 321.0  | 327.5  | 324.7  | 326.0  | 337.7  | 340.0  |
| 7.5°  | 428.1  | 414.4  | 397.5  | 384.2  | 361.3  | 343.1  | 358.5  | 366.3  | 368.6  | 389.4  | 397.2  |
| 10°   | 466.4  | 454.7  | 449.7  | 424.8  | 417.2  | 414.9  | 411.2  | 398.8  | 412.5  | 407.6  | 411.5  |
| 12.5° | 541.2  | 538.9  | 513.1  | 496.8  | 498.3  | 502.7  | 479.9  | 467.4  | 449.5  | 477.5  | 467.4  |
| 15°   | 604.9  | 615.0  | 589.3  | 559.4  | 544.6  | 552.1  | 534.7  | 516.5  | 500.4  | 509.0  | 498.1  |
| 17.5° | 686.3  | 686.0  | 635.8  | 603.9  | 602.6  | 602.0  | 576.3  | 536.3  | 555.5  | 549.5  | 550.1  |
| 20°   | 729.4  | 722.4  | 660.0  | 623.1  | 654.6  | 643.4  | 620.2  | 568.8  | 591.1  | 598.4  | 603.1  |
| 22.5° | 765.6  | 761.7  | 686.0  | 659.0  | 679.2  | 679.5  | 656.4  | 629.3  | 626.5  | 649.1  | 636.9  |
| 25°   | 790.8  | 806.4  | 735.1  | 728.6  | 737.5  | 728.6  | 706.0  | 688.3  | 676.9  | 710.7  | 676.9  |
| 27.5° | 850.6  | 828.5  | 742.7  | 779.6  | 785.0  | 740.6  | 768.9  | 748.1  | 716.4  | 758.3  | 772.1  |
| 30°   | 893.2  | 906.2  | 795.7  | 851.3  | 844.8  | 803.8  | 815.5  | 814.7  | 776.7  | 858.4  | 848.7  |
| 32.5° | 966.5  | 950.9  | 882.3  | 877.9  | 893.4  | 891.6  | 871.9  | 881.5  | 890.8  | 950.1  | 964.4  |
| 35°   | 1041.6 | 1058.3 | 937.6  | 967.5  | 963.1  | 935.0  | 986.8  | 980.8  | 1008.6 | 1130.3 | 1090.0 |
| 37.5° | 1211.1 | 1131.8 | 1061.9 | 1058.0 | 1087.6 | 1092.1 | 1075.4 | 1101.7 | 1161.7 | 1255.3 | 1298.5 |
| 40°   | 1322.1 | 1286.0 | 1167.2 | 1171.9 | 1130.8 | 1201.5 | 1154.7 | 1239.2 | 1284.9 | 1442.7 | 1427.4 |
| 42.5° | 1490.0 | 1401.9 | 1287.8 | 1303.4 | 1295.1 | 1261.0 | 1322.6 | 1366.0 | 1431.5 | 1551.9 | 1629.6 |
| 45°   | 1615.1 | 1494.2 | 1440.1 | 1430.5 | 1429.5 | 1488.7 | 1480.9 | 1550.3 | 1573.7 | 1664.2 | 1728.7 |
| 47.5° | 1710.0 | 1607.3 | 1527.2 | 1538.1 | 1506.4 | 1675.6 | 1585.4 | 1607.0 | 1654.3 | 1739.6 | 1814.7 |
| 50°   | 1822.5 | 1708.1 | 1617.2 | 1644.2 | 1721.4 | 1786.4 | 1704.8 | 1667.8 | 1691.0 | 1791.6 | 1875.3 |
| 52.5° | 1926.8 | 1806.4 | 1706.3 | 1728.9 | 1855.0 | 1825.4 | 1816.5 | 1723.2 | 1720.4 | 1801.2 | 1896.3 |
| 55°   | 2048.7 | 1913.0 | 1824.6 | 1896.3 | 1941.0 | 1904.4 | 1890.4 | 1776.8 | 1706.6 | 1751.5 | 1841.2 |
| 57.5° | 2168.2 | 2018.5 | 1930.7 | 1945.5 | 2002.1 | 1965.7 | 1860.5 | 1685.5 | 1597.9 | 1606.8 | 1697.5 |
| 60°   | 2280.3 | 2115.5 | 2042.9 | 2028.7 | 2073.9 | 1931.2 | 1746.9 | 1518.4 | 1402.2 | 1380.9 | 1459.4 |
| 62.5° | 2376.2 | 2196.6 | 2128.0 | 2089.0 | 2132.1 | 1932.5 | 1569.8 | 1250.1 | 1122.5 | 1050.2 | 1111.3 |
| 65°   | 2452.4 | 2263.9 | 2215.0 | 2194.8 | 2210.4 | 1815.0 | 1294.0 | 917.9  | 761.4  | 681.3  | 716.9  |
| 67.5° | 2503.1 | 2301.6 | 2279.2 | 2305.8 | 2097.8 | 1511.6 | 958.7  | 587.5  | 442.7  | 399.0  | 421.4  |
| 70°   | 2555.6 | 2334.9 | 2334.1 | 2243.9 | 1778.8 | 1042.1 | 559.9  | 338.7  | 257.6  | 240.7  | 254.8  |
| 72.5° | 2537.9 | 2295.4 | 2307.1 | 1962.4 | 1232.7 | 557.1  | 295.6  | 191.6  | 174.4  | 180.4  | 192.9  |
| 75°   | 2350.2 | 2086.9 | 2030.5 | 1410.7 | 699.3  | 258.9  | 170.3  | 145.1  | 144.0  | 153.1  | 165.3  |
| 77.5° | 1704.8 | 1453.4 | 1304.2 | 799.6  | 299.7  | 140.1  | 125.3  | 121.1  | 121.1  | 128.4  | 139.3  |
| 80°   | 562.0  | 486.4  | 506.9  | 309.3  | 141.7  | 96.7   | 97.7   | 99.6   | 99.0   | 100.9  | 110.0  |
| 82.5° | 92.3   | 95.7   | 147.9  | 126.3  | 85.5   | 66.0   | 73.8   | 77.5   | 78.5   | 70.2   | 79.8   |
| 85°   | 32.8   | 36.9   | 62.9   | 58.5   | 49.4   | 33.3   | 48.6   | 54.3   | 53.5   | 46.8   | 51.7   |
| 87.5° | 10.1   | 13.0   | 22.9   | 17.7   | 14.8   | 9.1    | 18.2   | 21.3   | 26.8   | 10.9   | 9.9    |
| 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)