

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: P597248

Luminaire Tested: **PMM-SA1D-722-U-RW**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-7)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA1D-722-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: 5177 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

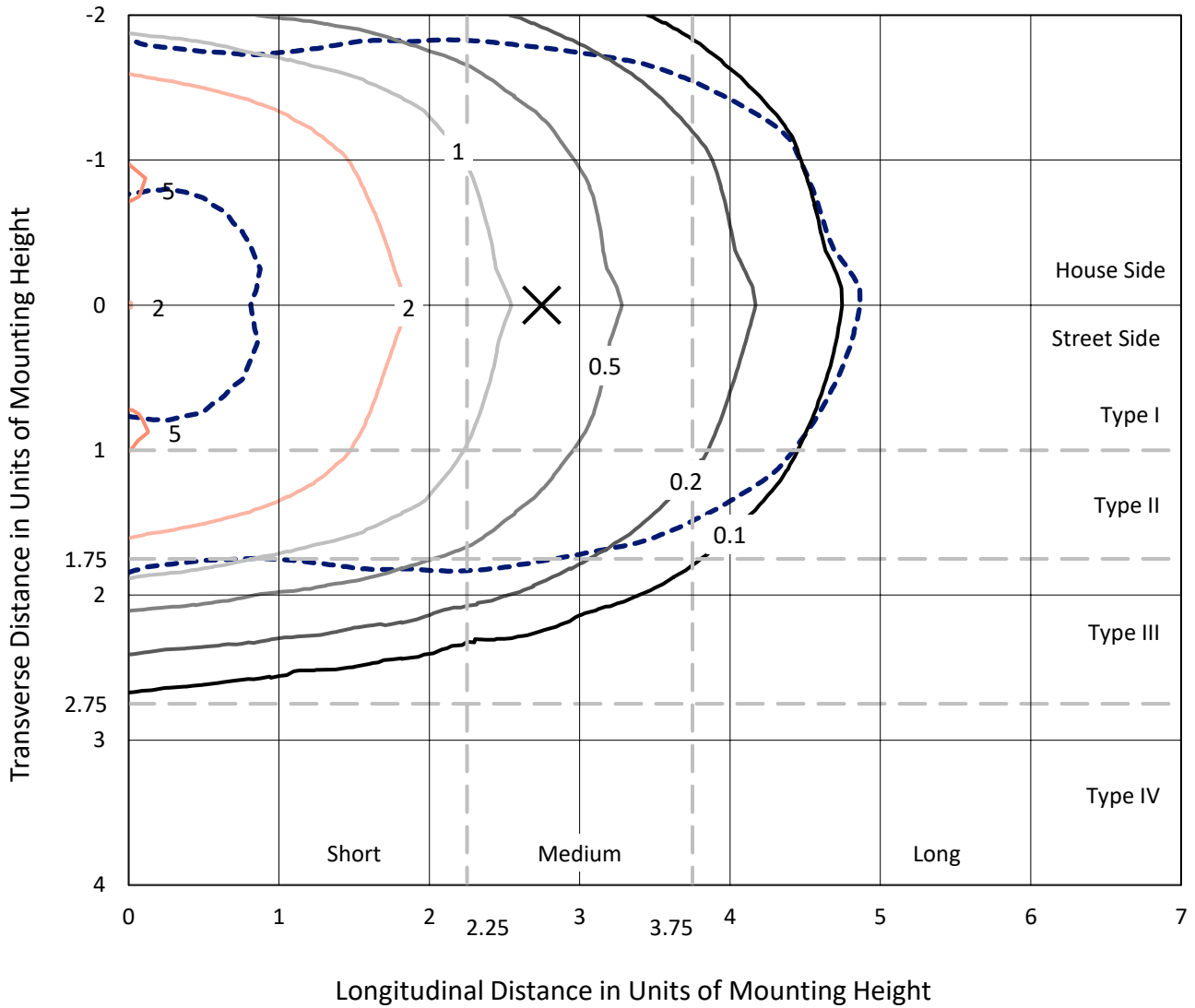
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

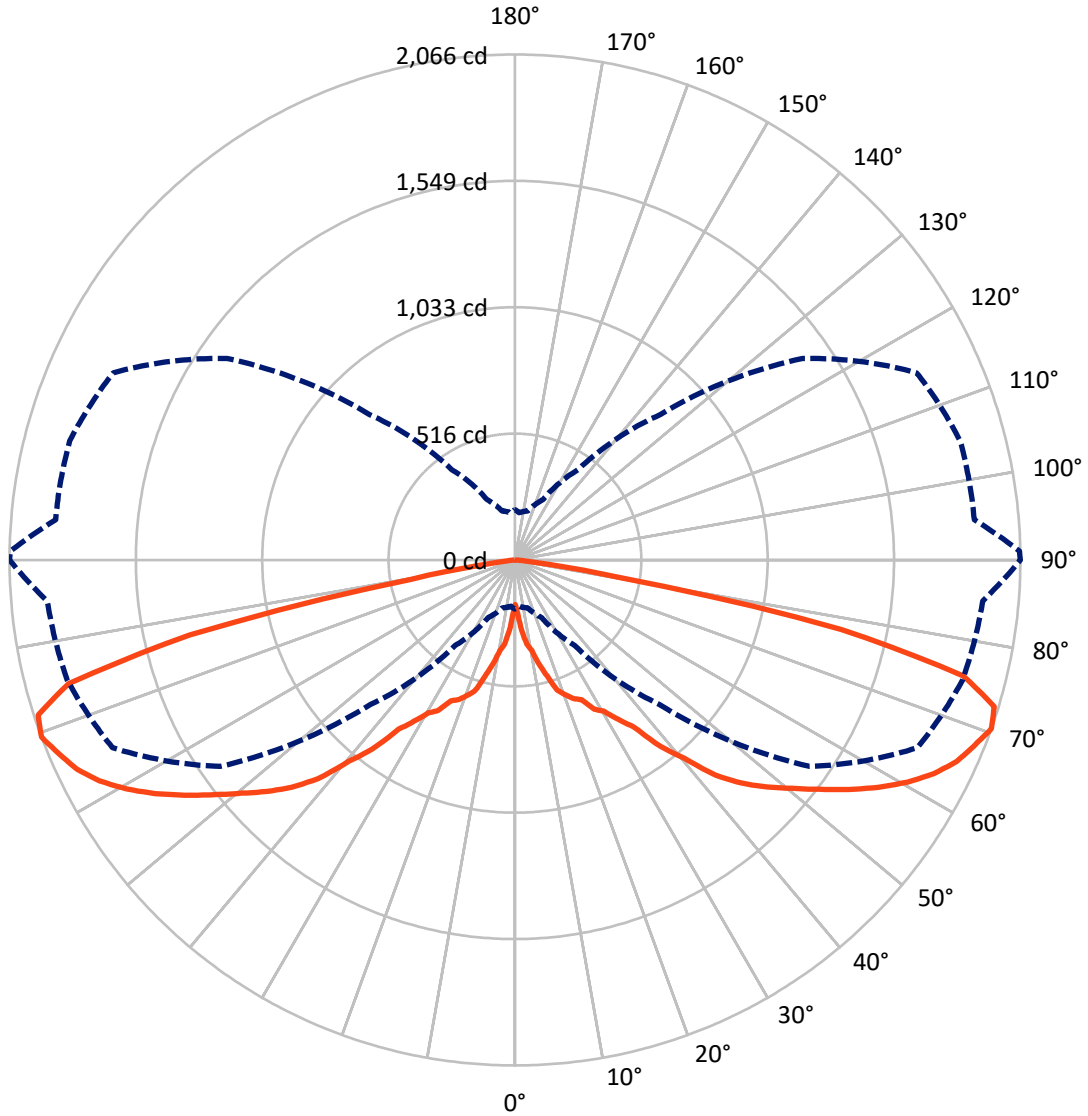
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.3 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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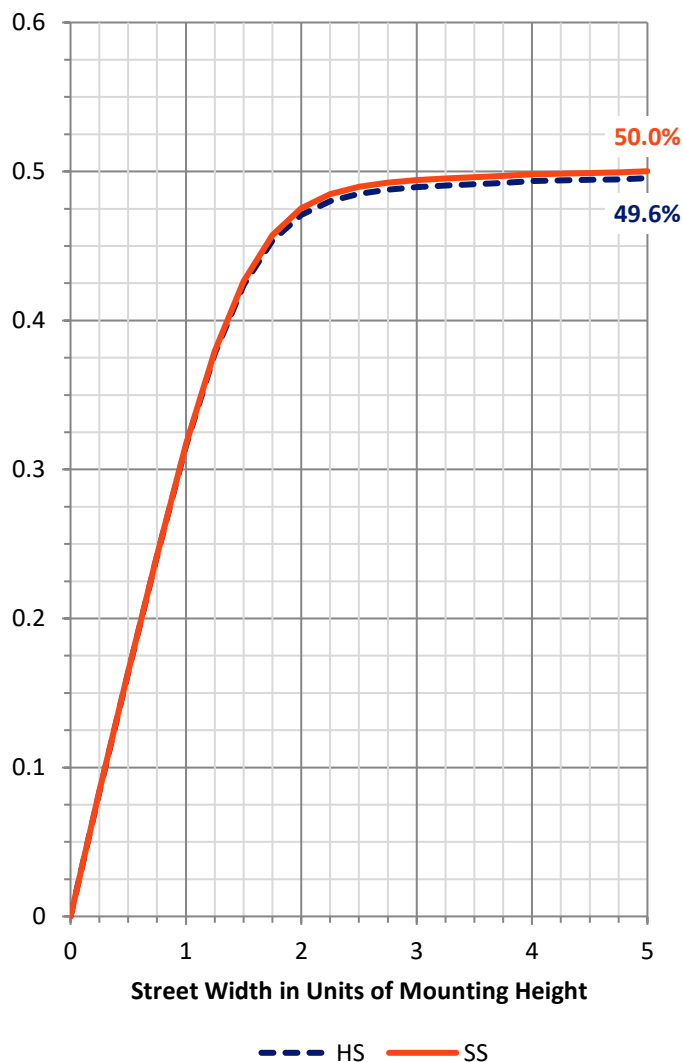
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2578.9 | 0.0 | 2578.9 |
| | % Fixture | 49.8 | 0.0 | 49.8 |
| Street Side | Lumens | 2598.1 | 0.0 | 2598.1 |
| | % Fixture | 50.2 | 0.0 | 50.2 |
| Total | Lumens | 5177.0 | 0.0 | 5177.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 27.4 | 0.5 |
| 10°-20° | 125.6 | 2.4 |
| 20°-30° | 271.6 | 5.2 |
| 30°-40° | 518.2 | 10.0 |
| 40°-50° | 941.4 | 18.2 |
| 50°-60° | 1322.5 | 25.5 |
| 60°-70° | 1262.7 | 24.4 |
| 70°-80° | 648.0 | 12.5 |
| 80°-90° | 59.4 | 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° | 5177.0 | 100.0 |
| 0°-180° | 5177.0 | 100.0 |

Coefficient of Utilization



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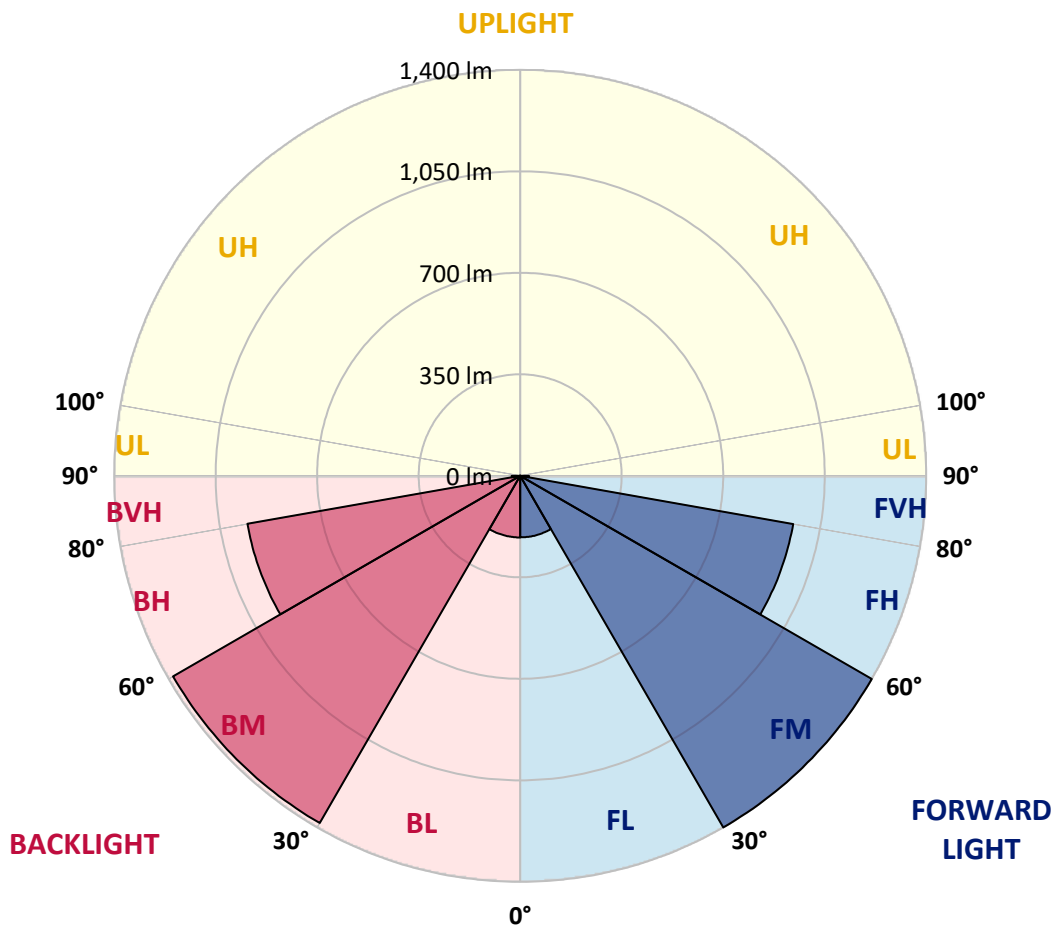
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 212.1 | 4.1 | | | |
| FM (30°-60°) | 1399.9 | 27.0 | | | |
| FH (60°-80°) | 955.9 | 18.5 | | | G1/1800 |
| FVH (80°-90°) | 30.1 | 0.6 | | | G1/100 |
| BL (0°-30°) | 212.5 | 4.1 | B1/500 | | |
| BM (30°-60°) | 1382.3 | 26.7 | B2/2500 | | |
| BH (60°-80°) | 954.9 | 18.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 29.3 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 |
| 2.5° | 220.1 | 211.9 | 201.6 | 207.7 | 210.2 | 214.6 | 214.0 | 211.9 | 202.9 | 218.0 | 219.7 |
| 5° | 275.5 | 262.5 | 257.7 | 256.8 | 258.1 | 253.9 | 267.5 | 263.5 | 270.9 | 284.5 | 287.7 |
| 7.5° | 313.7 | 304.0 | 293.7 | 296.9 | 283.9 | 282.0 | 299.6 | 315.4 | 319.3 | 344.3 | 346.0 |
| 10° | 331.7 | 322.3 | 325.0 | 323.1 | 321.6 | 333.8 | 342.0 | 353.5 | 370.1 | 372.4 | 376.0 |
| 12.5° | 347.0 | 350.8 | 362.8 | 362.4 | 382.1 | 403.7 | 400.5 | 412.5 | 415.2 | 444.2 | 435.4 |
| 15° | 385.9 | 393.6 | 392.8 | 400.1 | 408.7 | 444.2 | 444.4 | 464.7 | 483.4 | 494.7 | 491.8 |
| 17.5° | 442.7 | 445.4 | 434.1 | 434.5 | 459.5 | 474.0 | 490.1 | 486.6 | 535.2 | 557.5 | 559.0 |
| 20° | 476.7 | 483.6 | 470.6 | 453.4 | 497.7 | 517.6 | 526.6 | 505.9 | 557.9 | 587.9 | 587.9 |
| 22.5° | 536.1 | 518.2 | 498.5 | 487.0 | 526.0 | 547.2 | 546.2 | 540.3 | 568.0 | 621.1 | 616.0 |
| 25° | 568.8 | 558.7 | 548.9 | 551.8 | 571.5 | 582.5 | 596.9 | 583.3 | 609.3 | 648.8 | 632.2 |
| 27.5° | 630.9 | 612.2 | 563.8 | 602.4 | 602.4 | 594.2 | 624.8 | 631.3 | 614.3 | 678.5 | 690.9 |
| 30° | 701.2 | 694.7 | 626.1 | 667.0 | 654.4 | 631.3 | 690.1 | 685.9 | 657.4 | 722.8 | 717.2 |
| 32.5° | 767.7 | 789.1 | 724.1 | 701.6 | 720.5 | 729.3 | 698.5 | 711.1 | 716.5 | 779.7 | 777.0 |
| 35° | 869.7 | 887.7 | 801.5 | 795.8 | 764.4 | 756.2 | 779.7 | 783.9 | 784.3 | 850.8 | 838.6 |
| 37.5° | 1046.1 | 1020.1 | 934.9 | 894.9 | 898.4 | 888.6 | 893.2 | 860.0 | 864.7 | 961.2 | 967.3 |
| 40° | 1175.2 | 1145.8 | 1051.0 | 1022.2 | 951.7 | 993.9 | 956.6 | 953.2 | 944.0 | 1069.0 | 1065.7 |
| 42.5° | 1317.6 | 1277.4 | 1172.5 | 1134.1 | 1059.2 | 1041.9 | 1024.7 | 1063.6 | 1061.0 | 1176.9 | 1202.5 |
| 45° | 1425.3 | 1343.9 | 1289.1 | 1265.2 | 1220.3 | 1178.1 | 1161.8 | 1179.2 | 1171.2 | 1257.2 | 1301.9 |
| 47.5° | 1493.3 | 1422.6 | 1359.6 | 1309.3 | 1266.2 | 1369.7 | 1286.8 | 1263.5 | 1247.4 | 1343.7 | 1386.7 |
| 50° | 1547.4 | 1465.8 | 1391.5 | 1374.7 | 1408.7 | 1500.2 | 1369.5 | 1318.1 | 1337.8 | 1408.7 | 1467.2 |
| 52.5° | 1562.1 | 1475.6 | 1408.9 | 1398.2 | 1490.1 | 1506.7 | 1485.5 | 1399.1 | 1393.8 | 1486.8 | 1557.5 |
| 55° | 1517.2 | 1434.3 | 1402.6 | 1461.2 | 1562.7 | 1548.9 | 1581.2 | 1526.0 | 1488.9 | 1566.5 | 1655.5 |
| 57.5° | 1401.6 | 1319.3 | 1311.8 | 1396.1 | 1524.1 | 1642.0 | 1658.0 | 1614.3 | 1565.6 | 1647.9 | 1752.8 |
| 60° | 1211.7 | 1136.6 | 1155.7 | 1248.8 | 1441.9 | 1609.7 | 1694.5 | 1654.6 | 1639.5 | 1721.3 | 1843.0 |
| 62.5° | 916.1 | 857.5 | 908.5 | 1038.4 | 1291.6 | 1568.0 | 1744.8 | 1738.5 | 1716.7 | 1799.4 | 1922.8 |
| 65° | 584.1 | 553.3 | 605.3 | 737.3 | 1058.5 | 1492.0 | 1769.0 | 1777.4 | 1797.5 | 1859.6 | 1984.4 |
| 67.5° | 339.5 | 323.1 | 354.8 | 462.9 | 753.9 | 1225.1 | 1724.1 | 1844.5 | 1855.0 | 1890.7 | 2024.9 |
| 70° | 200.8 | 190.1 | 203.1 | 260.0 | 426.8 | 834.6 | 1470.6 | 1815.1 | 1894.4 | 1919.2 | 2065.9 |
| 72.5° | 153.2 | 143.1 | 137.4 | 153.8 | 222.8 | 431.2 | 994.3 | 1538.6 | 1862.7 | 1900.3 | 2048.6 |
| 75° | 132.4 | 122.7 | 116.0 | 117.5 | 132.6 | 204.8 | 539.0 | 1100.5 | 1587.3 | 1730.4 | 1892.3 |
| 77.5° | 113.7 | 105.1 | 100.3 | 99.9 | 101.8 | 112.5 | 225.3 | 596.7 | 994.1 | 1243.8 | 1364.2 |
| 80° | 91.1 | 84.3 | 83.3 | 83.3 | 80.6 | 79.7 | 112.0 | 227.0 | 378.3 | 448.6 | 430.1 |
| 82.5° | 66.5 | 59.8 | 66.5 | 65.7 | 61.5 | 58.1 | 71.3 | 98.2 | 116.7 | 92.1 | 72.8 |
| 85° | 44.9 | 38.8 | 43.9 | 44.7 | 40.7 | 30.2 | 42.8 | 49.1 | 50.4 | 31.5 | 26.0 |
| 87.5° | 15.7 | 15.3 | 24.8 | 21.6 | 17.6 | 10.3 | 15.7 | 17.0 | 17.8 | 11.1 | 7.6 |
| 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° | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 |
| 2.5° | 220.3 | 217.8 | 205.2 | 207.1 | 211.9 | 214.2 | 216.5 | 207.1 | 202.5 | 217.2 | 215.7 |
| 5° | 288.5 | 279.3 | 269.0 | 267.5 | 268.1 | 259.1 | 264.4 | 262.1 | 263.1 | 272.6 | 274.4 |
| 7.5° | 345.6 | 334.4 | 320.8 | 310.1 | 291.6 | 277.0 | 289.3 | 295.6 | 297.5 | 314.3 | 320.6 |
| 10° | 376.4 | 367.0 | 363.0 | 342.8 | 336.8 | 334.9 | 331.9 | 321.9 | 333.0 | 329.0 | 332.1 |
| 12.5° | 436.8 | 434.9 | 414.2 | 401.0 | 402.2 | 405.8 | 387.3 | 377.2 | 362.8 | 385.4 | 377.2 |
| 15° | 488.2 | 496.4 | 475.7 | 451.5 | 439.6 | 445.6 | 431.6 | 416.9 | 403.9 | 410.8 | 402.0 |
| 17.5° | 553.9 | 553.7 | 513.2 | 487.4 | 486.4 | 485.9 | 465.2 | 432.9 | 448.4 | 443.6 | 444.0 |
| 20° | 588.7 | 583.1 | 532.7 | 502.9 | 528.3 | 519.3 | 500.6 | 459.1 | 477.1 | 483.0 | 486.8 |
| 22.5° | 617.9 | 614.8 | 553.7 | 531.9 | 548.3 | 548.5 | 529.8 | 508.0 | 505.7 | 523.9 | 514.1 |
| 25° | 638.3 | 650.9 | 593.4 | 588.1 | 595.2 | 588.1 | 569.9 | 555.6 | 546.4 | 573.6 | 546.4 |
| 27.5° | 686.5 | 668.7 | 599.4 | 629.2 | 633.6 | 597.8 | 620.6 | 603.9 | 578.3 | 612.0 | 623.2 |
| 30° | 720.9 | 731.4 | 642.2 | 687.1 | 681.9 | 648.8 | 658.2 | 657.6 | 626.9 | 692.8 | 685.1 |
| 32.5° | 780.1 | 767.5 | 712.1 | 708.5 | 721.1 | 719.7 | 703.7 | 711.5 | 719.0 | 766.9 | 778.4 |
| 35° | 840.7 | 854.2 | 756.8 | 780.9 | 777.4 | 754.7 | 796.5 | 791.6 | 814.1 | 912.3 | 879.8 |
| 37.5° | 977.5 | 913.5 | 857.1 | 854.0 | 877.9 | 881.4 | 868.0 | 889.2 | 937.7 | 1013.2 | 1048.0 |
| 40° | 1067.1 | 1038.0 | 942.1 | 945.9 | 912.7 | 969.8 | 932.0 | 1000.2 | 1037.1 | 1164.5 | 1152.1 |
| 42.5° | 1202.7 | 1131.5 | 1039.4 | 1052.0 | 1045.3 | 1017.8 | 1067.5 | 1102.6 | 1155.5 | 1252.6 | 1315.3 |
| 45° | 1303.6 | 1206.0 | 1162.4 | 1154.6 | 1153.8 | 1201.6 | 1195.3 | 1251.3 | 1270.2 | 1343.2 | 1395.3 |
| 47.5° | 1380.2 | 1297.3 | 1232.7 | 1241.5 | 1215.9 | 1352.5 | 1279.7 | 1297.1 | 1335.3 | 1404.1 | 1464.7 |
| 50° | 1471.0 | 1378.7 | 1305.3 | 1327.1 | 1389.4 | 1441.9 | 1376.0 | 1346.2 | 1364.9 | 1446.1 | 1513.6 |
| 52.5° | 1555.2 | 1458.0 | 1377.2 | 1395.5 | 1497.2 | 1473.3 | 1466.2 | 1390.9 | 1388.6 | 1453.8 | 1530.6 |
| 55° | 1653.6 | 1544.0 | 1472.7 | 1530.6 | 1566.7 | 1537.1 | 1525.8 | 1434.1 | 1377.4 | 1413.7 | 1486.1 |
| 57.5° | 1750.1 | 1629.2 | 1558.3 | 1570.3 | 1616.0 | 1586.6 | 1501.7 | 1360.4 | 1289.7 | 1296.9 | 1370.1 |
| 60° | 1840.5 | 1707.5 | 1648.9 | 1637.4 | 1673.9 | 1558.7 | 1410.0 | 1225.5 | 1131.7 | 1114.5 | 1177.9 |
| 62.5° | 1917.9 | 1772.9 | 1717.6 | 1686.1 | 1720.9 | 1559.8 | 1267.1 | 1009.0 | 906.0 | 847.7 | 897.0 |
| 65° | 1979.4 | 1827.3 | 1787.8 | 1771.5 | 1784.1 | 1464.9 | 1044.5 | 740.9 | 614.6 | 549.9 | 578.7 |
| 67.5° | 2020.3 | 1857.7 | 1839.7 | 1861.1 | 1693.2 | 1220.1 | 773.8 | 474.2 | 357.3 | 322.1 | 340.1 |
| 70° | 2062.7 | 1884.6 | 1883.9 | 1811.1 | 1435.8 | 841.2 | 451.9 | 273.4 | 207.9 | 194.3 | 205.6 |
| 72.5° | 2048.4 | 1852.7 | 1862.1 | 1583.9 | 994.9 | 449.6 | 238.6 | 154.6 | 140.8 | 145.6 | 155.7 |
| 75° | 1896.9 | 1684.4 | 1638.9 | 1138.7 | 564.4 | 209.0 | 137.4 | 117.1 | 116.2 | 123.6 | 133.4 |
| 77.5° | 1376.0 | 1173.1 | 1052.6 | 645.4 | 241.9 | 113.1 | 101.1 | 97.8 | 97.8 | 103.6 | 112.5 |
| 80° | 453.6 | 392.6 | 409.1 | 249.7 | 114.3 | 78.1 | 78.9 | 80.4 | 79.9 | 81.4 | 88.8 |
| 82.5° | 74.5 | 77.2 | 119.4 | 102.0 | 69.0 | 53.3 | 59.6 | 62.5 | 63.4 | 56.7 | 64.4 |
| 85° | 26.4 | 29.8 | 50.8 | 47.2 | 39.9 | 26.9 | 39.2 | 43.9 | 43.2 | 37.8 | 41.8 |
| 87.5° | 8.2 | 10.5 | 18.5 | 14.3 | 12.0 | 7.3 | 14.7 | 17.2 | 21.6 | 8.8 | 8.0 |
| 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)