

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: P366866

Luminaire Tested: **PMM-SA1C-727-U-RW**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P366866
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-SA1C-727-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: 5387 lumens
Efficiency: N/A
Efficacy: 91.3 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

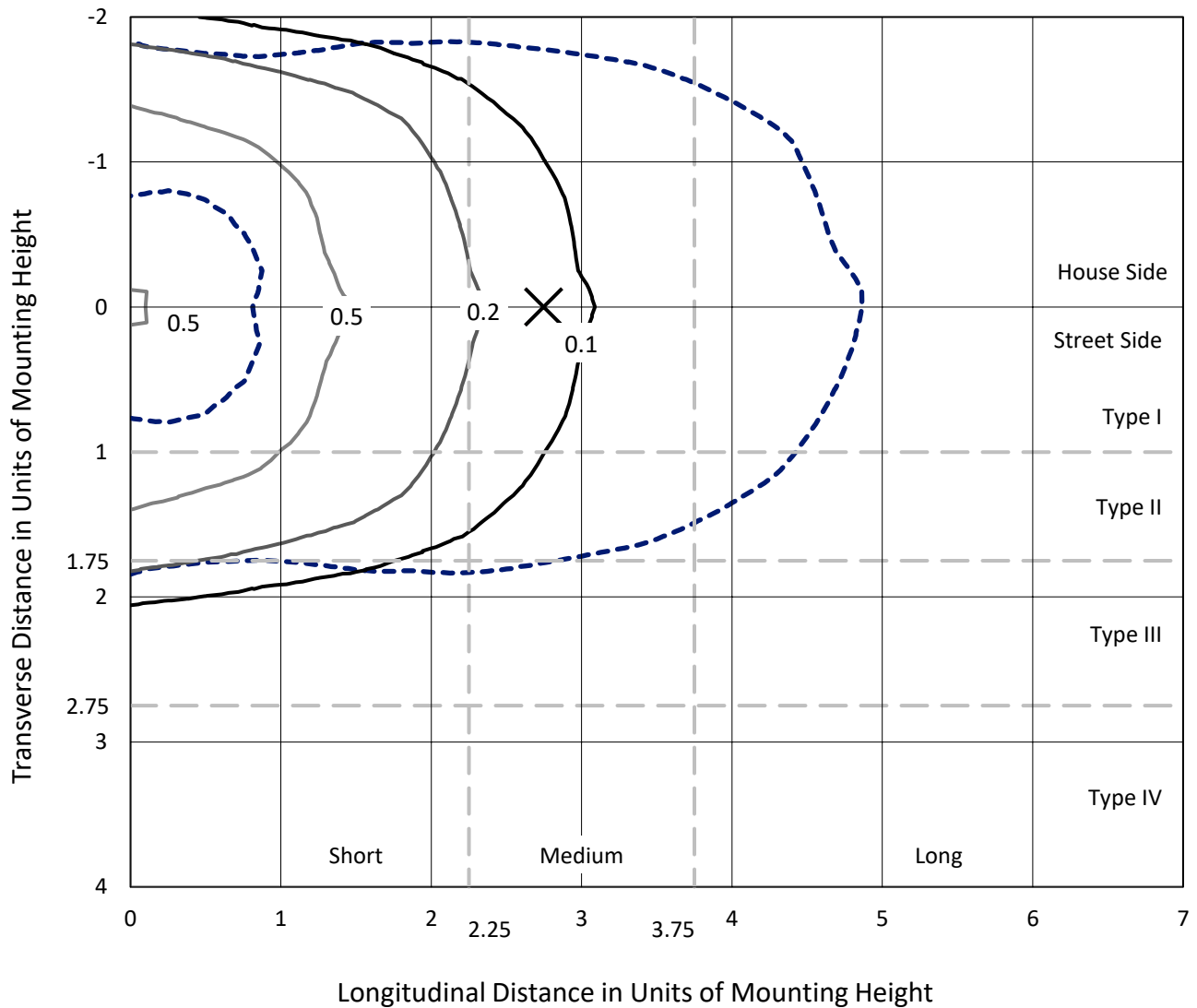
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

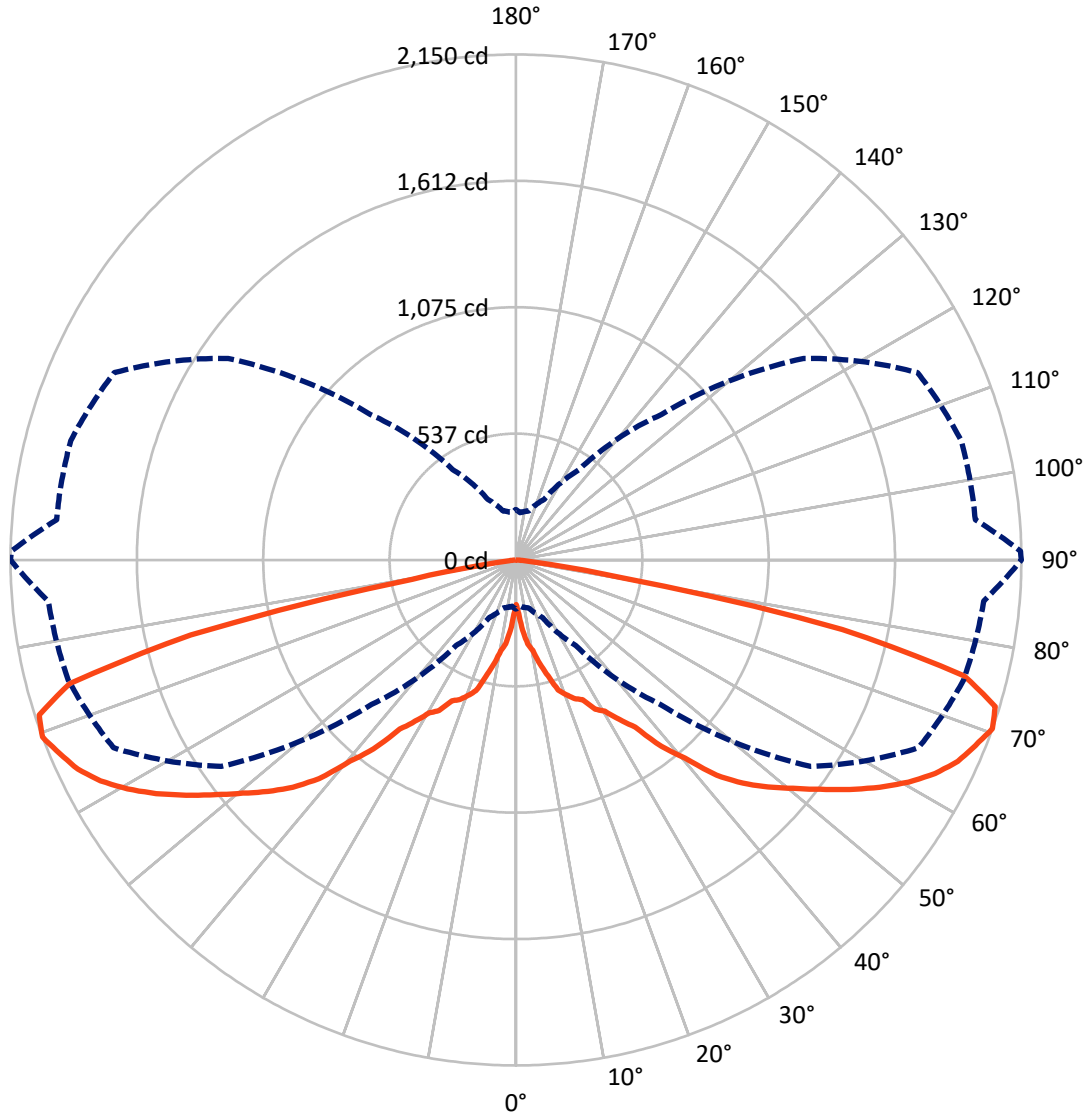
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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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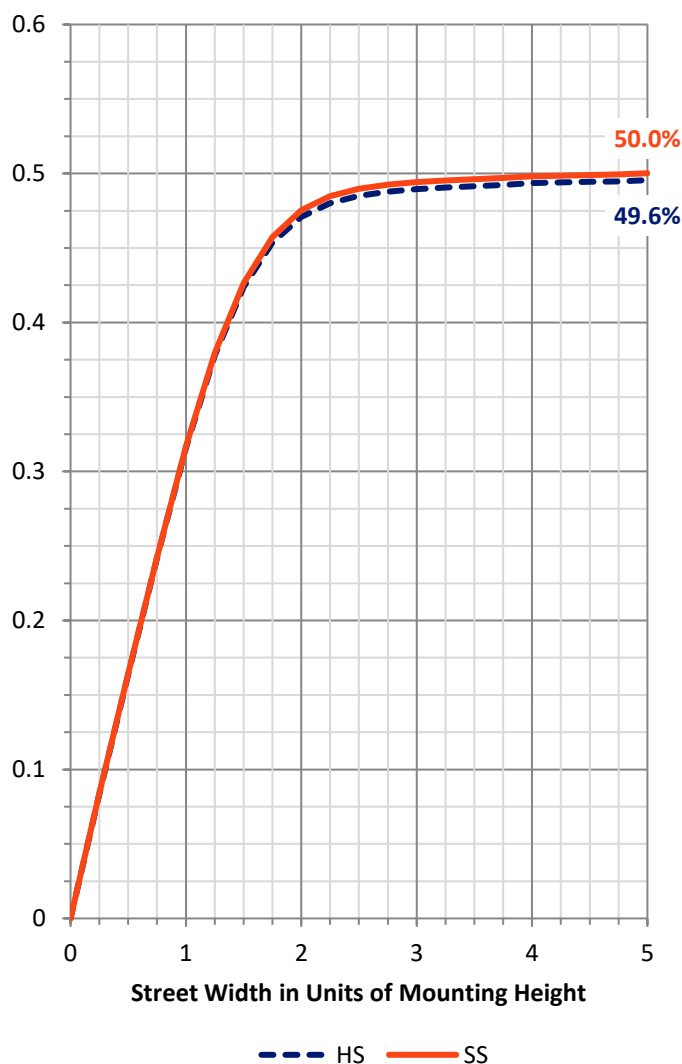
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2683.5 | 0.0 | 2683.5 |
| | % Fixture | 49.8 | 0.0 | 49.8 |
| Street Side | Lumens | 2703.5 | 0.0 | 2703.5 |
| | % Fixture | 50.2 | 0.0 | 50.2 |
| Total | Lumens | 5387.0 | 0.0 | 5387.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 28.5 | 0.5 |
| 10°-20° | 130.7 | 2.4 |
| 20°-30° | 282.6 | 5.2 |
| 30°-40° | 539.2 | 10.0 |
| 40°-50° | 979.6 | 18.2 |
| 50°-60° | 1376.1 | 25.5 |
| 60°-70° | 1313.9 | 24.4 |
| 70°-80° | 674.3 | 12.5 |
| 80°-90° | 61.8 | 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° | 5387.0 | 100.0 |
| 0°-180° | 5387.0 | 100.0 |

Coefficient of Utilization



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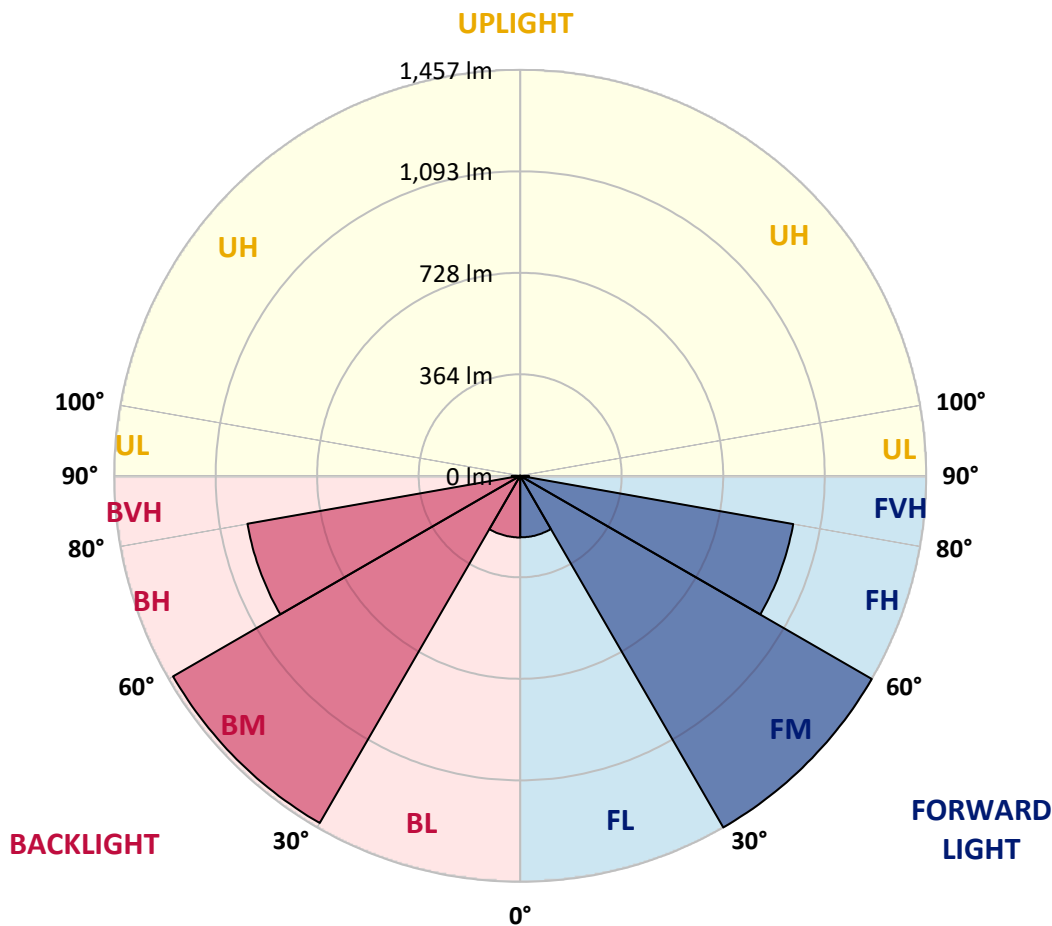
CATALOG NUMBER: PMM-SA1C-727-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 220.7 | 4.1 | | | |
| FM (30°-60°) | 1456.7 | 27.0 | | | |
| FH (60°-80°) | 994.7 | 18.5 | | | G1/1800 |
| FVH (80°-90°) | 31.4 | 0.6 | | | G1/100 |
| BL (0°-30°) | 221.2 | 4.1 | B1/500 | | |
| BM (30°-60°) | 1438.3 | 26.7 | B2/2500 | | |
| BH (60°-80°) | 993.6 | 18.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 30.4 | 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° | 189.1 | 189.1 | 189.1 | 189.1 | 189.1 | 189.1 | 189.1 | 189.1 | 189.1 | 189.1 | 189.1 |
| 2.5° | 229.0 | 220.5 | 209.8 | 216.1 | 218.8 | 223.3 | 222.7 | 220.5 | 211.1 | 226.8 | 228.6 |
| 5° | 286.7 | 273.1 | 268.1 | 267.2 | 268.5 | 264.2 | 278.4 | 274.2 | 281.9 | 296.1 | 299.3 |
| 7.5° | 326.4 | 316.4 | 305.7 | 308.9 | 295.4 | 293.4 | 311.8 | 328.1 | 332.3 | 358.3 | 360.0 |
| 10° | 345.2 | 335.4 | 338.2 | 336.2 | 334.7 | 347.4 | 355.9 | 367.9 | 385.1 | 387.5 | 391.2 |
| 12.5° | 361.1 | 365.0 | 377.5 | 377.1 | 397.6 | 420.1 | 416.8 | 429.2 | 432.1 | 462.2 | 453.0 |
| 15° | 401.5 | 409.6 | 408.7 | 416.4 | 425.3 | 462.2 | 462.4 | 483.6 | 503.0 | 514.8 | 511.8 |
| 17.5° | 460.7 | 463.5 | 451.7 | 452.2 | 478.1 | 493.2 | 510.0 | 506.3 | 557.0 | 580.1 | 581.6 |
| 20° | 496.0 | 503.2 | 489.7 | 471.8 | 517.9 | 538.6 | 548.0 | 526.4 | 580.5 | 611.8 | 611.8 |
| 22.5° | 557.8 | 539.3 | 518.7 | 506.7 | 547.3 | 569.4 | 568.3 | 562.2 | 591.0 | 646.2 | 641.0 |
| 25° | 591.9 | 581.4 | 571.1 | 574.2 | 594.7 | 606.1 | 621.1 | 607.0 | 634.0 | 675.1 | 657.8 |
| 27.5° | 656.5 | 637.1 | 586.6 | 626.8 | 626.8 | 618.3 | 650.2 | 656.9 | 639.3 | 706.1 | 719.0 |
| 30° | 729.7 | 722.9 | 651.5 | 694.1 | 681.0 | 656.9 | 718.1 | 713.7 | 684.0 | 752.1 | 746.2 |
| 32.5° | 798.9 | 821.1 | 753.4 | 730.1 | 749.7 | 758.9 | 726.8 | 739.9 | 745.6 | 811.3 | 808.5 |
| 35° | 905.0 | 923.7 | 834.0 | 828.1 | 795.4 | 786.9 | 811.3 | 815.7 | 816.1 | 885.3 | 872.7 |
| 37.5° | 1088.6 | 1061.5 | 972.9 | 931.2 | 934.9 | 924.6 | 929.4 | 894.9 | 899.7 | 1000.2 | 1006.5 |
| 40° | 1222.9 | 1192.3 | 1093.6 | 1063.7 | 990.3 | 1034.2 | 995.4 | 991.9 | 982.3 | 1112.4 | 1108.9 |
| 42.5° | 1371.1 | 1329.2 | 1220.0 | 1180.1 | 1102.1 | 1084.2 | 1066.3 | 1106.7 | 1104.1 | 1224.6 | 1251.2 |
| 45° | 1483.1 | 1398.4 | 1341.4 | 1316.5 | 1269.8 | 1225.9 | 1208.9 | 1227.0 | 1218.7 | 1308.2 | 1354.7 |
| 47.5° | 1553.8 | 1480.3 | 1414.8 | 1362.4 | 1317.6 | 1425.2 | 1339.0 | 1314.8 | 1298.0 | 1398.2 | 1442.9 |
| 50° | 1610.2 | 1525.2 | 1447.9 | 1430.5 | 1465.8 | 1561.0 | 1425.0 | 1371.5 | 1392.1 | 1465.8 | 1526.8 |
| 52.5° | 1625.4 | 1535.5 | 1466.1 | 1454.9 | 1550.6 | 1567.8 | 1545.8 | 1455.8 | 1450.3 | 1547.1 | 1620.6 |
| 55° | 1578.7 | 1492.5 | 1459.5 | 1520.4 | 1626.1 | 1611.7 | 1645.3 | 1587.9 | 1549.3 | 1630.0 | 1722.6 |
| 57.5° | 1458.4 | 1372.8 | 1365.0 | 1452.8 | 1585.9 | 1708.6 | 1725.2 | 1679.8 | 1629.2 | 1714.7 | 1823.9 |
| 60° | 1260.8 | 1182.7 | 1202.5 | 1299.5 | 1500.3 | 1675.0 | 1763.2 | 1721.7 | 1706.0 | 1791.2 | 1917.8 |
| 62.5° | 953.2 | 892.3 | 945.4 | 1080.5 | 1344.0 | 1631.6 | 1815.6 | 1809.1 | 1786.4 | 1872.4 | 2000.8 |
| 65° | 607.8 | 575.7 | 629.9 | 767.2 | 1101.5 | 1552.5 | 1840.7 | 1849.5 | 1870.4 | 1935.0 | 2064.9 |
| 67.5° | 353.3 | 336.2 | 369.2 | 481.6 | 784.5 | 1274.8 | 1794.0 | 1919.3 | 1930.2 | 1967.3 | 2107.1 |
| 70° | 208.9 | 197.8 | 211.3 | 270.5 | 444.1 | 868.5 | 1530.3 | 1888.8 | 1971.3 | 1997.0 | 2149.7 |
| 72.5° | 159.4 | 148.9 | 143.0 | 160.0 | 231.9 | 448.7 | 1034.7 | 1601.0 | 1938.3 | 1977.4 | 2131.7 |
| 75° | 137.8 | 127.7 | 120.7 | 122.3 | 138.0 | 213.1 | 560.9 | 1145.1 | 1651.6 | 1800.5 | 1969.1 |
| 77.5° | 118.3 | 109.4 | 104.4 | 103.9 | 105.9 | 117.0 | 234.5 | 620.9 | 1034.4 | 1294.2 | 1419.6 |
| 80° | 94.8 | 87.8 | 86.7 | 86.7 | 83.8 | 83.0 | 116.6 | 236.2 | 393.6 | 466.8 | 447.6 |
| 82.5° | 69.2 | 62.2 | 69.2 | 68.3 | 64.0 | 60.5 | 74.2 | 102.2 | 121.4 | 95.8 | 75.8 |
| 85° | 46.7 | 40.4 | 45.6 | 46.5 | 42.4 | 31.4 | 44.5 | 51.1 | 52.4 | 32.7 | 27.1 |
| 87.5° | 16.4 | 15.9 | 25.8 | 22.5 | 18.3 | 10.7 | 16.4 | 17.7 | 18.6 | 11.6 | 7.9 |
| 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):

| | 91° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 189.1 | 189.1 | 189.1 | 189.1 | 189.1 | 189.1 | 189.1 | 189.1 | 189.1 | 189.1 | 189.1 |
| 2.5° | 229.2 | 226.6 | 213.5 | 215.5 | 220.5 | 222.9 | 225.3 | 215.5 | 210.7 | 226.0 | 224.4 |
| 5° | 300.2 | 290.6 | 279.9 | 278.4 | 279.0 | 269.6 | 275.1 | 272.7 | 273.8 | 283.6 | 285.6 |
| 7.5° | 359.6 | 348.0 | 333.8 | 322.7 | 303.5 | 288.2 | 301.1 | 307.6 | 309.6 | 327.1 | 333.6 |
| 10° | 391.7 | 381.9 | 377.7 | 356.7 | 350.4 | 348.5 | 345.4 | 334.9 | 346.5 | 342.3 | 345.6 |
| 12.5° | 454.6 | 452.6 | 431.0 | 417.2 | 418.5 | 422.2 | 403.0 | 392.6 | 377.5 | 401.1 | 392.6 |
| 15° | 508.0 | 516.6 | 494.9 | 469.8 | 457.4 | 463.7 | 449.1 | 433.8 | 420.3 | 427.5 | 418.3 |
| 17.5° | 576.4 | 576.2 | 534.0 | 507.2 | 506.1 | 505.6 | 484.0 | 450.4 | 466.6 | 461.5 | 462.0 |
| 20° | 612.6 | 606.7 | 554.3 | 523.3 | 549.7 | 540.4 | 520.9 | 477.7 | 496.5 | 502.6 | 506.5 |
| 22.5° | 643.0 | 639.7 | 576.2 | 553.5 | 570.5 | 570.7 | 551.3 | 528.6 | 526.2 | 545.2 | 534.9 |
| 25° | 664.2 | 677.3 | 617.4 | 612.0 | 619.4 | 612.0 | 593.0 | 578.1 | 568.5 | 596.9 | 568.5 |
| 27.5° | 714.4 | 695.8 | 623.8 | 654.8 | 659.3 | 622.0 | 645.8 | 628.3 | 601.7 | 636.9 | 648.4 |
| 30° | 750.2 | 761.1 | 668.3 | 715.0 | 709.6 | 675.1 | 684.9 | 684.2 | 652.4 | 720.9 | 712.8 |
| 32.5° | 811.7 | 798.6 | 741.0 | 737.3 | 750.4 | 748.9 | 732.3 | 740.3 | 748.2 | 798.0 | 810.0 |
| 35° | 874.8 | 888.8 | 787.5 | 812.6 | 808.9 | 785.3 | 828.8 | 823.7 | 847.1 | 949.3 | 915.4 |
| 37.5° | 1017.2 | 950.6 | 891.9 | 888.6 | 913.5 | 917.2 | 903.2 | 925.3 | 975.7 | 1054.3 | 1090.5 |
| 40° | 1110.4 | 1080.1 | 980.3 | 984.2 | 949.7 | 1009.1 | 969.8 | 1040.8 | 1079.2 | 1211.7 | 1198.8 |
| 42.5° | 1251.5 | 1177.4 | 1081.6 | 1094.7 | 1087.7 | 1059.1 | 1110.8 | 1147.3 | 1202.3 | 1303.4 | 1368.7 |
| 45° | 1356.5 | 1254.9 | 1209.5 | 1201.5 | 1200.6 | 1250.4 | 1243.8 | 1302.1 | 1321.8 | 1397.7 | 1451.9 |
| 47.5° | 1436.2 | 1349.9 | 1282.7 | 1291.8 | 1265.2 | 1407.3 | 1331.6 | 1349.7 | 1389.4 | 1461.0 | 1524.1 |
| 50° | 1530.7 | 1434.6 | 1358.2 | 1380.9 | 1445.8 | 1500.3 | 1431.8 | 1400.8 | 1420.2 | 1504.7 | 1575.0 |
| 52.5° | 1618.2 | 1517.2 | 1433.1 | 1452.1 | 1558.0 | 1533.1 | 1525.7 | 1447.3 | 1444.9 | 1512.8 | 1592.7 |
| 55° | 1720.6 | 1606.7 | 1532.4 | 1592.7 | 1630.3 | 1599.5 | 1587.7 | 1492.3 | 1433.3 | 1471.1 | 1546.4 |
| 57.5° | 1821.1 | 1695.3 | 1621.5 | 1634.0 | 1681.6 | 1651.0 | 1562.6 | 1415.6 | 1342.1 | 1349.5 | 1425.7 |
| 60° | 1915.2 | 1776.7 | 1715.8 | 1703.8 | 1741.8 | 1622.0 | 1467.2 | 1275.3 | 1177.7 | 1159.8 | 1225.7 |
| 62.5° | 1995.7 | 1844.9 | 1787.2 | 1754.5 | 1790.7 | 1623.0 | 1318.5 | 1049.9 | 942.7 | 882.0 | 933.3 |
| 65° | 2059.7 | 1901.4 | 1860.4 | 1843.3 | 1856.4 | 1524.4 | 1086.8 | 770.9 | 639.5 | 572.2 | 602.1 |
| 67.5° | 2102.3 | 1933.1 | 1914.3 | 1936.6 | 1761.9 | 1269.6 | 805.2 | 493.4 | 371.8 | 335.1 | 353.9 |
| 70° | 2146.4 | 1961.0 | 1960.4 | 1884.6 | 1494.0 | 875.3 | 470.3 | 284.5 | 216.4 | 202.2 | 214.0 |
| 72.5° | 2131.5 | 1927.8 | 1937.7 | 1648.2 | 1035.3 | 467.9 | 248.2 | 160.9 | 146.5 | 151.5 | 162.0 |
| 75° | 1973.9 | 1752.7 | 1705.4 | 1184.9 | 587.3 | 217.5 | 143.0 | 121.8 | 121.0 | 128.6 | 138.9 |
| 77.5° | 1431.8 | 1220.7 | 1095.3 | 671.6 | 251.7 | 117.7 | 105.2 | 101.7 | 101.7 | 107.9 | 117.0 |
| 80° | 472.0 | 408.5 | 425.7 | 259.8 | 119.0 | 81.2 | 82.1 | 83.6 | 83.2 | 84.7 | 92.4 |
| 82.5° | 77.5 | 80.3 | 124.2 | 106.1 | 71.8 | 55.5 | 62.0 | 65.1 | 65.9 | 58.9 | 67.0 |
| 85° | 27.5 | 31.0 | 52.8 | 49.1 | 41.5 | 27.9 | 40.8 | 45.6 | 45.0 | 39.3 | 43.4 |
| 87.5° | 8.5 | 10.9 | 19.2 | 14.8 | 12.4 | 7.6 | 15.3 | 17.9 | 22.5 | 9.2 | 8.3 |
| 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)