

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: P597930

Luminaire Tested: **PMM-SA1C-827-U-RW**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597930
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-SA1C-827-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: 4735 lumens
Efficiency: N/A
Efficacy: 80.3 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

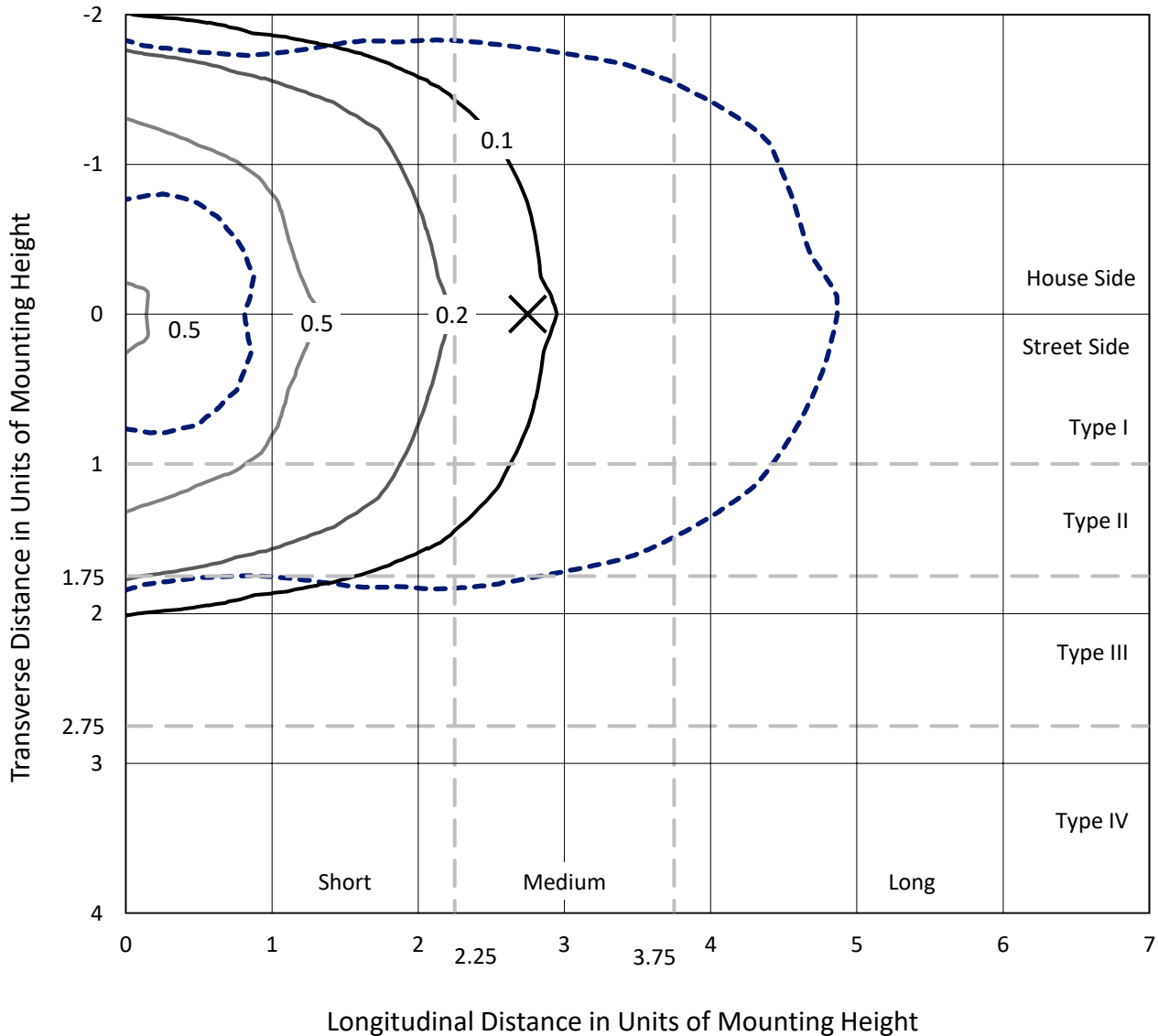
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

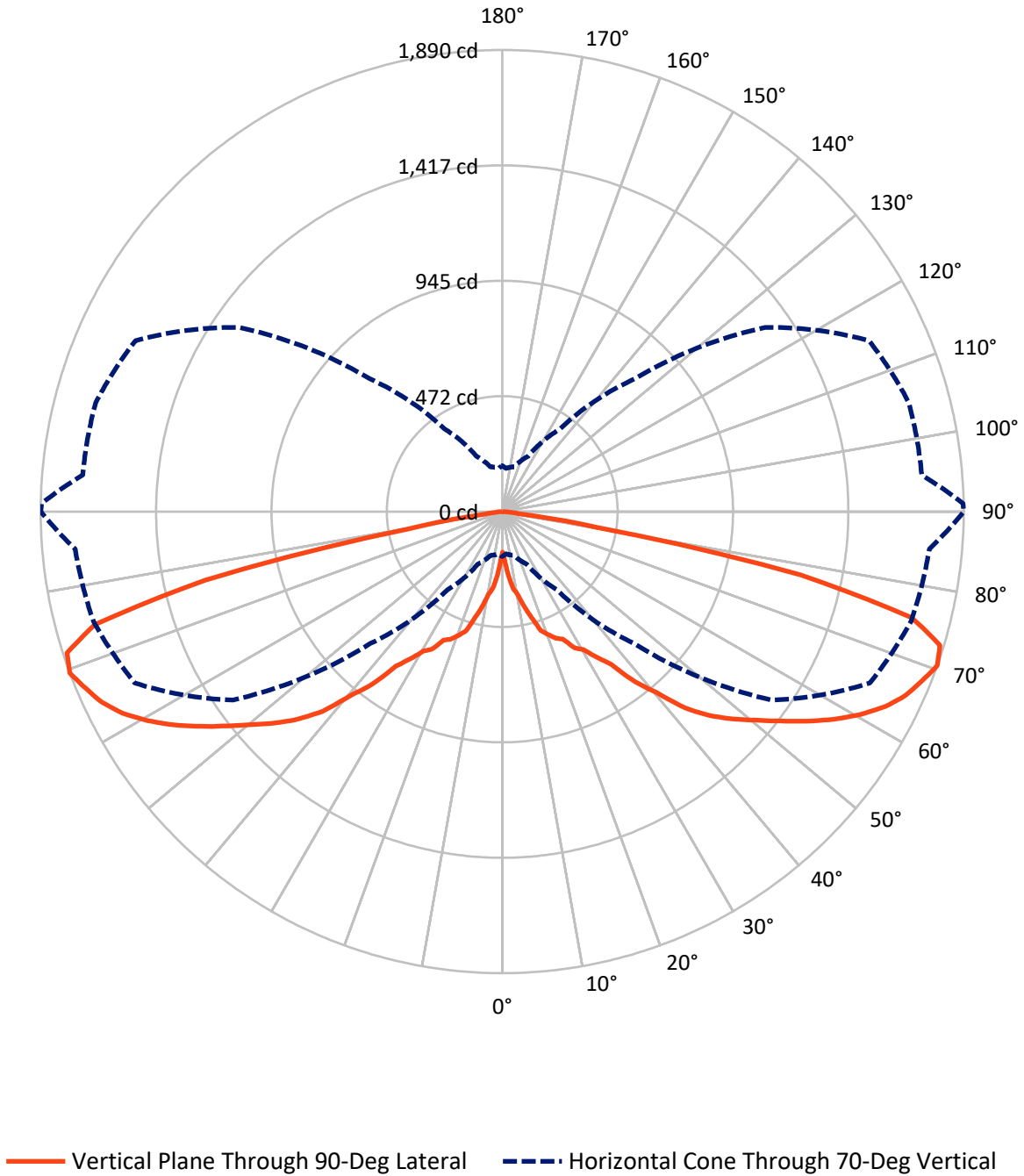
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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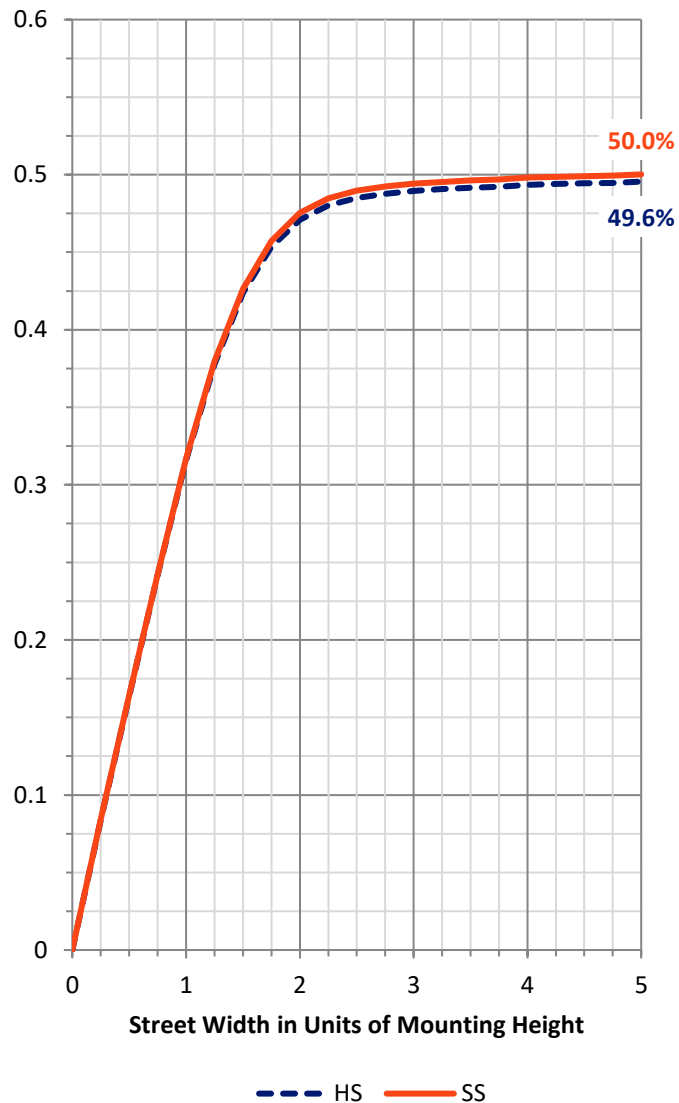
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2358.7 | 0.0 | 2358.7 |
| | % Fixture | 49.8 | 0.0 | 49.8 |
| Street Side | Lumens | 2376.3 | 0.0 | 2376.3 |
| | % Fixture | 50.2 | 0.0 | 50.2 |
| Total | Lumens | 4735.0 | 0.0 | 4735.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 25.1 | 0.5 |
| 10°-20° | 114.9 | 2.4 |
| 20°-30° | 248.4 | 5.2 |
| 30°-40° | 474.0 | 10.0 |
| 40°-50° | 861.1 | 18.2 |
| 50°-60° | 1209.6 | 25.5 |
| 60°-70° | 1154.9 | 24.4 |
| 70°-80° | 592.7 | 12.5 |
| 80°-90° | 54.3 | 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° | 4735.0 | 100.0 |
| 0°-180° | 4735.0 | 100.0 |

Coefficient of Utilization



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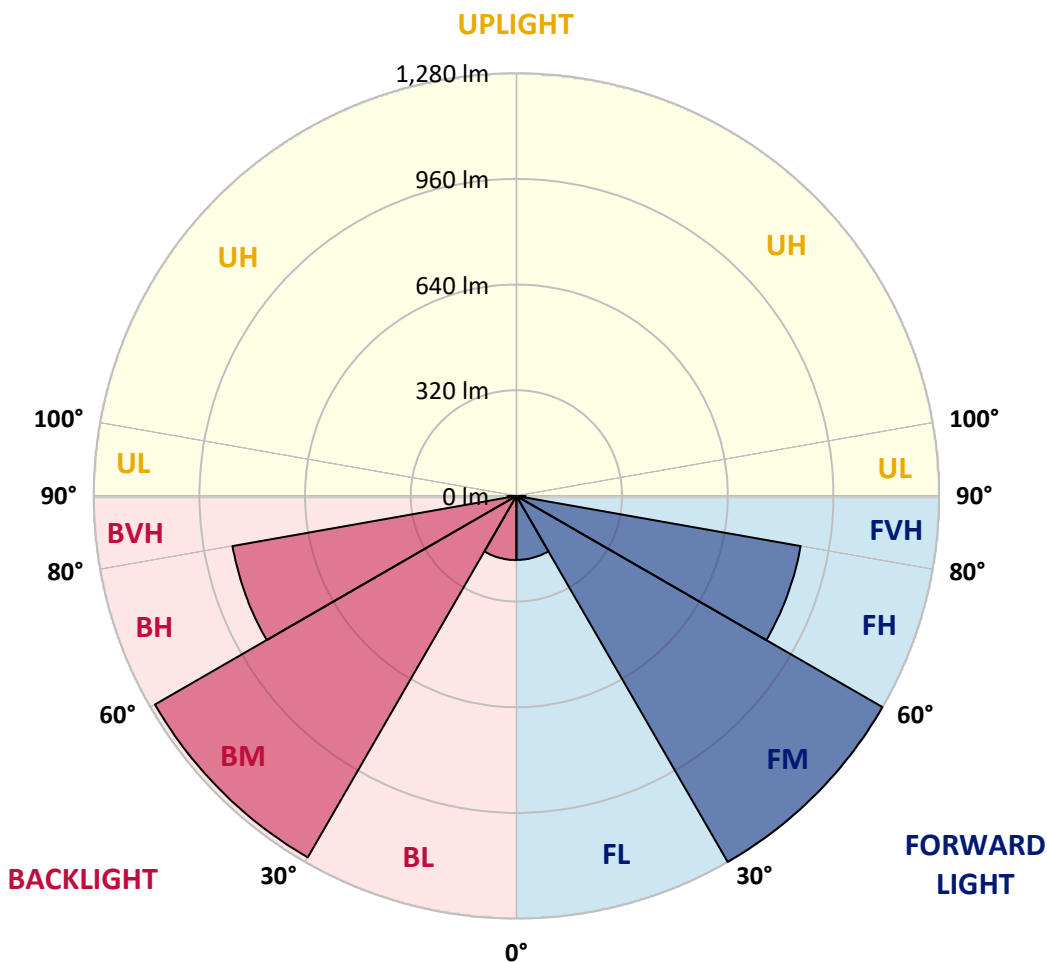
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 194.0 | 4.1 | | | |
| FM (30°-60°) | 1280.4 | 27.0 | | | |
| FH (60°-80°) | 874.3 | 18.5 | | | G1/1800 |
| FVH (80°-90°) | 27.6 | 0.6 | | | G1/100 |
| BL (0°-30°) | 194.4 | 4.1 | B1/500 | | |
| BM (30°-60°) | 1264.2 | 26.7 | B2/2500 | | |
| BH (60°-80°) | 873.3 | 18.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 26.8 | 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° | 166.2 | 166.2 | 166.2 | 166.2 | 166.2 | 166.2 | 166.2 | 166.2 | 166.2 | 166.2 | 166.2 |
| 2.5° | 201.3 | 193.8 | 184.4 | 190.0 | 192.3 | 196.3 | 195.7 | 193.8 | 185.6 | 199.4 | 200.9 |
| 5° | 252.0 | 240.1 | 235.7 | 234.9 | 236.0 | 232.2 | 244.7 | 241.0 | 247.7 | 260.2 | 263.1 |
| 7.5° | 286.9 | 278.1 | 268.7 | 271.5 | 259.6 | 257.9 | 274.0 | 288.4 | 292.1 | 314.9 | 316.4 |
| 10° | 303.4 | 294.8 | 297.3 | 295.5 | 294.2 | 305.3 | 312.8 | 323.4 | 338.5 | 340.6 | 343.9 |
| 12.5° | 317.4 | 320.9 | 331.8 | 331.4 | 349.5 | 369.2 | 366.3 | 377.3 | 379.8 | 406.3 | 398.2 |
| 15° | 352.9 | 360.0 | 359.2 | 366.0 | 373.8 | 406.3 | 406.5 | 425.1 | 442.1 | 452.5 | 449.8 |
| 17.5° | 404.9 | 407.4 | 397.0 | 397.4 | 420.3 | 433.5 | 448.3 | 445.0 | 489.5 | 509.9 | 511.2 |
| 20° | 436.0 | 442.3 | 430.4 | 414.7 | 455.2 | 473.4 | 481.7 | 462.7 | 510.3 | 537.7 | 537.7 |
| 22.5° | 490.3 | 474.0 | 456.0 | 445.4 | 481.1 | 500.5 | 499.5 | 494.1 | 519.5 | 568.0 | 563.4 |
| 25° | 520.2 | 511.0 | 502.0 | 504.7 | 522.7 | 532.7 | 546.0 | 533.5 | 557.3 | 593.4 | 578.2 |
| 27.5° | 577.1 | 560.0 | 515.6 | 551.0 | 551.0 | 543.5 | 571.5 | 577.4 | 561.9 | 620.6 | 631.9 |
| 30° | 641.3 | 635.4 | 572.6 | 610.1 | 598.5 | 577.4 | 631.2 | 627.3 | 601.2 | 661.1 | 655.9 |
| 32.5° | 702.2 | 721.7 | 662.3 | 641.7 | 659.0 | 667.1 | 638.8 | 650.4 | 655.3 | 713.1 | 710.6 |
| 35° | 795.4 | 811.9 | 733.1 | 727.9 | 699.1 | 691.6 | 713.1 | 716.9 | 717.3 | 778.2 | 767.0 |
| 37.5° | 956.8 | 933.0 | 855.1 | 818.5 | 821.7 | 812.7 | 816.9 | 786.6 | 790.8 | 879.1 | 884.7 |
| 40° | 1074.8 | 1048.0 | 961.2 | 935.0 | 870.5 | 909.0 | 874.9 | 871.8 | 863.4 | 977.7 | 974.7 |
| 42.5° | 1205.1 | 1168.3 | 1072.4 | 1037.2 | 968.7 | 953.0 | 937.3 | 972.8 | 970.5 | 1076.4 | 1099.8 |
| 45° | 1303.6 | 1229.1 | 1179.1 | 1157.2 | 1116.1 | 1077.5 | 1062.6 | 1078.5 | 1071.2 | 1149.9 | 1190.8 |
| 47.5° | 1365.8 | 1301.1 | 1243.5 | 1197.5 | 1158.1 | 1252.7 | 1176.9 | 1155.6 | 1140.9 | 1228.9 | 1268.3 |
| 50° | 1415.3 | 1340.6 | 1272.7 | 1257.3 | 1288.4 | 1372.1 | 1252.5 | 1205.5 | 1223.6 | 1288.4 | 1342.0 |
| 52.5° | 1428.7 | 1349.7 | 1288.6 | 1278.8 | 1362.9 | 1378.1 | 1358.7 | 1279.6 | 1274.8 | 1359.8 | 1424.5 |
| 55° | 1387.6 | 1311.8 | 1282.9 | 1336.4 | 1429.3 | 1416.6 | 1446.2 | 1395.7 | 1361.7 | 1432.7 | 1514.1 |
| 57.5° | 1281.9 | 1206.7 | 1199.8 | 1276.9 | 1394.0 | 1501.8 | 1516.4 | 1476.5 | 1432.0 | 1507.2 | 1603.2 |
| 60° | 1108.2 | 1039.5 | 1057.0 | 1142.2 | 1318.8 | 1472.3 | 1549.8 | 1513.3 | 1499.5 | 1574.4 | 1685.7 |
| 62.5° | 837.8 | 784.3 | 830.9 | 949.7 | 1181.4 | 1434.1 | 1595.9 | 1590.1 | 1570.1 | 1645.8 | 1758.6 |
| 65° | 534.3 | 506.0 | 553.6 | 674.3 | 968.1 | 1364.6 | 1617.9 | 1625.6 | 1644.0 | 1700.8 | 1815.0 |
| 67.5° | 310.5 | 295.5 | 324.5 | 423.3 | 689.5 | 1120.5 | 1576.9 | 1687.0 | 1696.6 | 1729.2 | 1852.1 |
| 70° | 183.7 | 173.9 | 185.8 | 237.8 | 390.3 | 763.4 | 1345.0 | 1660.2 | 1732.7 | 1755.3 | 1889.5 |
| 72.5° | 140.1 | 130.9 | 125.7 | 140.7 | 203.8 | 394.4 | 909.4 | 1407.2 | 1703.7 | 1738.1 | 1873.7 |
| 75° | 121.1 | 112.3 | 106.1 | 107.5 | 121.3 | 187.3 | 493.0 | 1006.5 | 1451.7 | 1582.6 | 1730.8 |
| 77.5° | 104.0 | 96.1 | 91.7 | 91.3 | 93.1 | 102.9 | 206.1 | 545.8 | 909.2 | 1137.6 | 1247.8 |
| 80° | 83.3 | 77.1 | 76.2 | 76.2 | 73.7 | 72.9 | 102.5 | 207.6 | 346.0 | 410.3 | 393.4 |
| 82.5° | 60.8 | 54.7 | 60.8 | 60.1 | 56.2 | 53.2 | 65.2 | 89.8 | 106.7 | 84.2 | 66.6 |
| 85° | 41.1 | 35.5 | 40.1 | 40.9 | 37.2 | 27.6 | 39.1 | 44.9 | 46.1 | 28.8 | 23.8 |
| 87.5° | 14.4 | 14.0 | 22.6 | 19.8 | 16.1 | 9.4 | 14.4 | 15.5 | 16.3 | 10.2 | 6.9 |
| 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° | 166.2 | 166.2 | 166.2 | 166.2 | 166.2 | 166.2 | 166.2 | 166.2 | 166.2 | 166.2 | 166.2 |
| 2.5° | 201.5 | 199.2 | 187.7 | 189.4 | 193.8 | 195.9 | 198.0 | 189.4 | 185.2 | 198.6 | 197.3 |
| 5° | 263.9 | 255.4 | 246.0 | 244.7 | 245.3 | 237.0 | 241.8 | 239.7 | 240.6 | 249.3 | 251.0 |
| 7.5° | 316.1 | 305.9 | 293.4 | 283.6 | 266.7 | 253.3 | 264.6 | 270.4 | 272.1 | 287.5 | 293.2 |
| 10° | 344.3 | 335.6 | 332.0 | 313.6 | 308.0 | 306.3 | 303.6 | 294.4 | 304.5 | 300.9 | 303.8 |
| 12.5° | 399.5 | 397.8 | 378.8 | 366.7 | 367.9 | 371.1 | 354.3 | 345.0 | 331.8 | 352.5 | 345.0 |
| 15° | 446.6 | 454.0 | 435.0 | 413.0 | 402.0 | 407.6 | 394.7 | 381.3 | 369.4 | 375.7 | 367.7 |
| 17.5° | 506.6 | 506.4 | 469.4 | 445.8 | 444.8 | 444.4 | 425.4 | 395.9 | 410.1 | 405.7 | 406.1 |
| 20° | 538.5 | 533.3 | 487.2 | 460.0 | 483.2 | 475.0 | 457.9 | 419.9 | 436.4 | 441.8 | 445.2 |
| 22.5° | 565.2 | 562.3 | 506.4 | 486.5 | 501.4 | 501.6 | 484.6 | 464.6 | 462.5 | 479.2 | 470.2 |
| 25° | 583.8 | 595.3 | 542.7 | 537.9 | 544.4 | 537.9 | 521.2 | 508.2 | 499.7 | 524.7 | 499.7 |
| 27.5° | 627.9 | 611.6 | 548.3 | 575.5 | 579.5 | 546.7 | 567.6 | 552.3 | 528.9 | 559.8 | 570.0 |
| 30° | 659.4 | 669.0 | 587.4 | 628.5 | 623.7 | 593.4 | 602.0 | 601.4 | 573.4 | 633.7 | 626.6 |
| 32.5° | 713.5 | 702.0 | 651.3 | 648.1 | 659.6 | 658.2 | 643.6 | 650.7 | 657.7 | 701.4 | 712.0 |
| 35° | 769.0 | 781.2 | 692.2 | 714.3 | 711.0 | 690.3 | 728.5 | 724.0 | 744.6 | 834.4 | 804.6 |
| 37.5° | 894.1 | 835.5 | 783.9 | 781.0 | 802.9 | 806.2 | 793.9 | 813.3 | 857.6 | 926.7 | 958.6 |
| 40° | 976.0 | 949.3 | 861.6 | 865.1 | 834.8 | 887.0 | 852.4 | 914.8 | 948.6 | 1065.1 | 1053.7 |
| 42.5° | 1100.0 | 1034.9 | 950.7 | 962.2 | 956.1 | 930.9 | 976.4 | 1008.4 | 1056.8 | 1145.7 | 1203.0 |
| 45° | 1192.3 | 1103.1 | 1063.1 | 1056.0 | 1055.3 | 1099.0 | 1093.3 | 1144.5 | 1161.8 | 1228.6 | 1276.2 |
| 47.5° | 1262.3 | 1186.5 | 1127.4 | 1135.5 | 1112.1 | 1237.0 | 1170.4 | 1186.3 | 1221.3 | 1284.2 | 1339.7 |
| 50° | 1345.4 | 1261.0 | 1193.8 | 1213.8 | 1270.8 | 1318.8 | 1258.5 | 1231.2 | 1248.3 | 1322.6 | 1384.4 |
| 52.5° | 1422.4 | 1333.5 | 1259.6 | 1276.3 | 1369.4 | 1347.5 | 1341.0 | 1272.1 | 1270.0 | 1329.7 | 1399.9 |
| 55° | 1512.4 | 1412.2 | 1347.0 | 1399.9 | 1432.9 | 1405.9 | 1395.5 | 1311.7 | 1259.8 | 1293.0 | 1359.2 |
| 57.5° | 1600.7 | 1490.1 | 1425.3 | 1436.2 | 1478.0 | 1451.2 | 1373.4 | 1244.3 | 1179.6 | 1186.2 | 1253.1 |
| 60° | 1683.4 | 1561.7 | 1508.2 | 1497.6 | 1531.0 | 1425.6 | 1289.6 | 1120.9 | 1035.1 | 1019.4 | 1077.3 |
| 62.5° | 1754.2 | 1621.6 | 1570.9 | 1542.1 | 1574.0 | 1426.6 | 1158.9 | 922.9 | 828.6 | 775.3 | 820.4 |
| 65° | 1810.4 | 1671.3 | 1635.2 | 1620.2 | 1631.7 | 1339.9 | 955.3 | 677.6 | 562.1 | 503.0 | 529.3 |
| 67.5° | 1847.8 | 1699.1 | 1682.6 | 1702.2 | 1548.7 | 1115.9 | 707.7 | 433.7 | 326.8 | 294.6 | 311.1 |
| 70° | 1886.6 | 1723.7 | 1723.1 | 1656.5 | 1313.2 | 769.3 | 413.4 | 250.0 | 190.2 | 177.7 | 188.1 |
| 72.5° | 1873.5 | 1694.5 | 1703.1 | 1448.7 | 910.0 | 411.2 | 218.2 | 141.4 | 128.8 | 133.2 | 142.4 |
| 75° | 1735.0 | 1540.6 | 1499.0 | 1041.5 | 516.2 | 191.1 | 125.7 | 107.1 | 106.3 | 113.0 | 122.1 |
| 77.5° | 1258.5 | 1072.9 | 962.8 | 590.3 | 221.3 | 103.4 | 92.5 | 89.4 | 89.4 | 94.8 | 102.9 |
| 80° | 414.9 | 359.1 | 374.2 | 228.4 | 104.6 | 71.4 | 72.2 | 73.5 | 73.1 | 74.5 | 81.2 |
| 82.5° | 68.1 | 70.6 | 109.2 | 93.3 | 63.1 | 48.7 | 54.5 | 57.2 | 58.0 | 51.8 | 58.9 |
| 85° | 24.2 | 27.3 | 46.4 | 43.2 | 36.5 | 24.6 | 35.9 | 40.1 | 39.5 | 34.5 | 38.2 |
| 87.5° | 7.5 | 9.6 | 16.9 | 13.0 | 10.9 | 6.7 | 13.4 | 15.7 | 19.8 | 8.1 | 7.3 |
| 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)