

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: P140709

Luminaire Tested: **MEM-E02-LED-E-U-5XQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P140709
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33688)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MEM-E02-LED-E-U-5XQ-7030
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5446.4 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

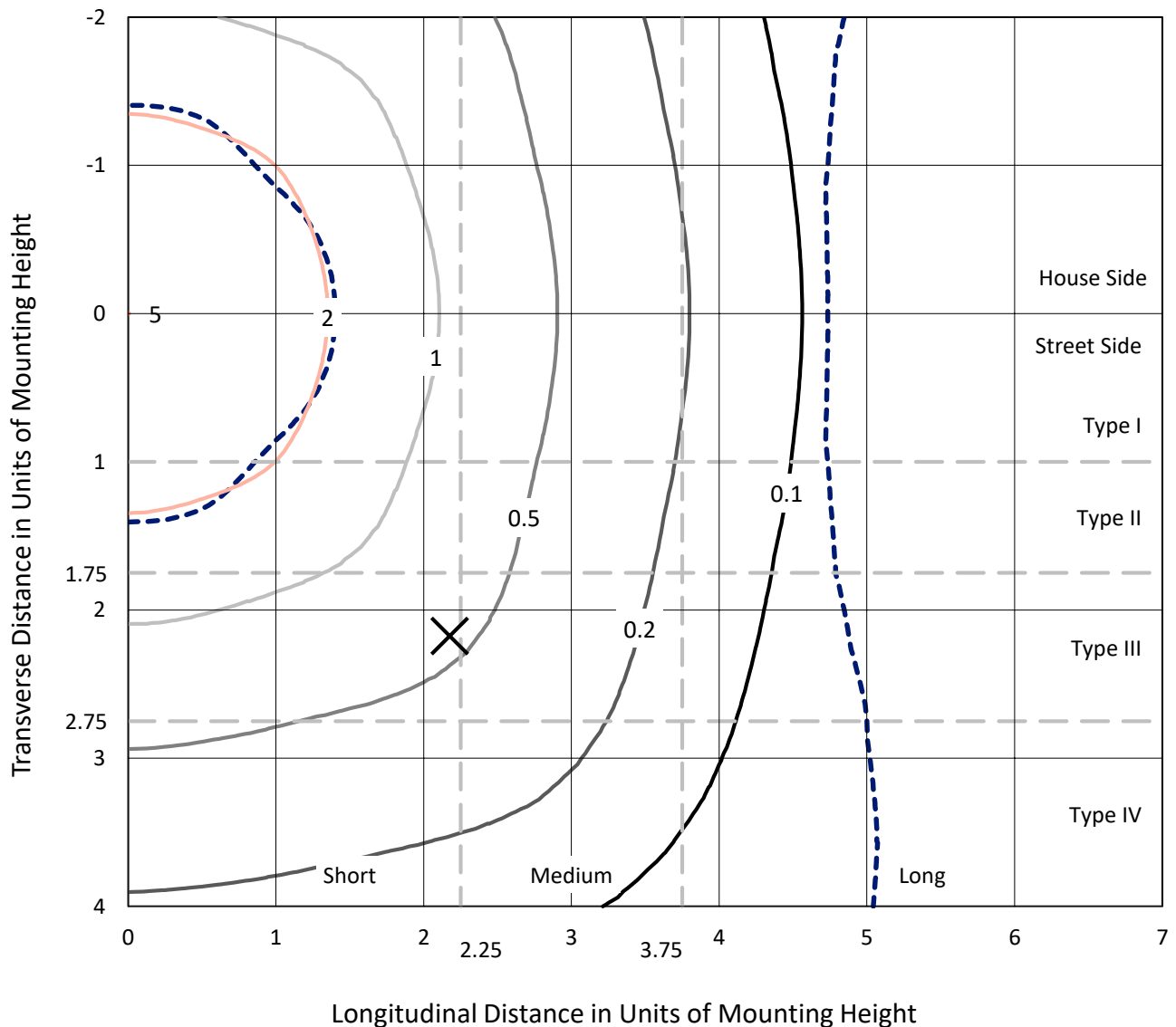
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

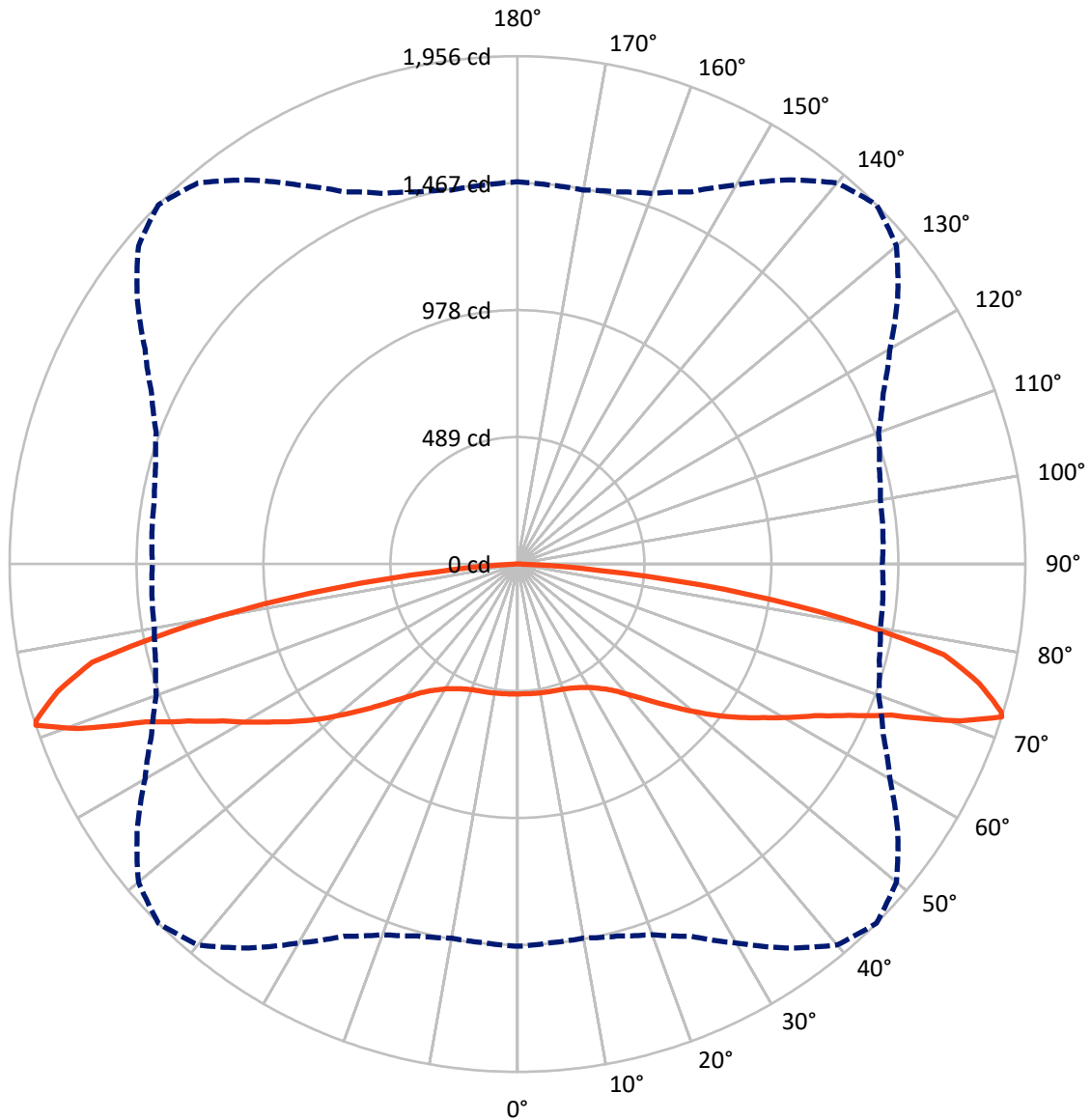
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2723.2 | 0.0 | 2723.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2723.2 | 0.0 | 2723.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5446.4 | 0.0 | 5446.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 48.0 | 0.9 |
| 10°-20° | 144.5 | 2.7 |
| 20°-30° | 244.5 | 4.5 |
| 30°-40° | 372.0 | 6.8 |
| 40°-50° | 588.9 | 10.8 |
| 50°-60° | 902.4 | 16.6 |
| 60°-70° | 1324.9 | 24.3 |
| 70°-80° | 1502.9 | 27.6 |
| 80°-90° | 318.4 | 5.8 |
| 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° | 5446.4 | 100.0 |
| 0°-180° | 5446.4 | 100.0 |



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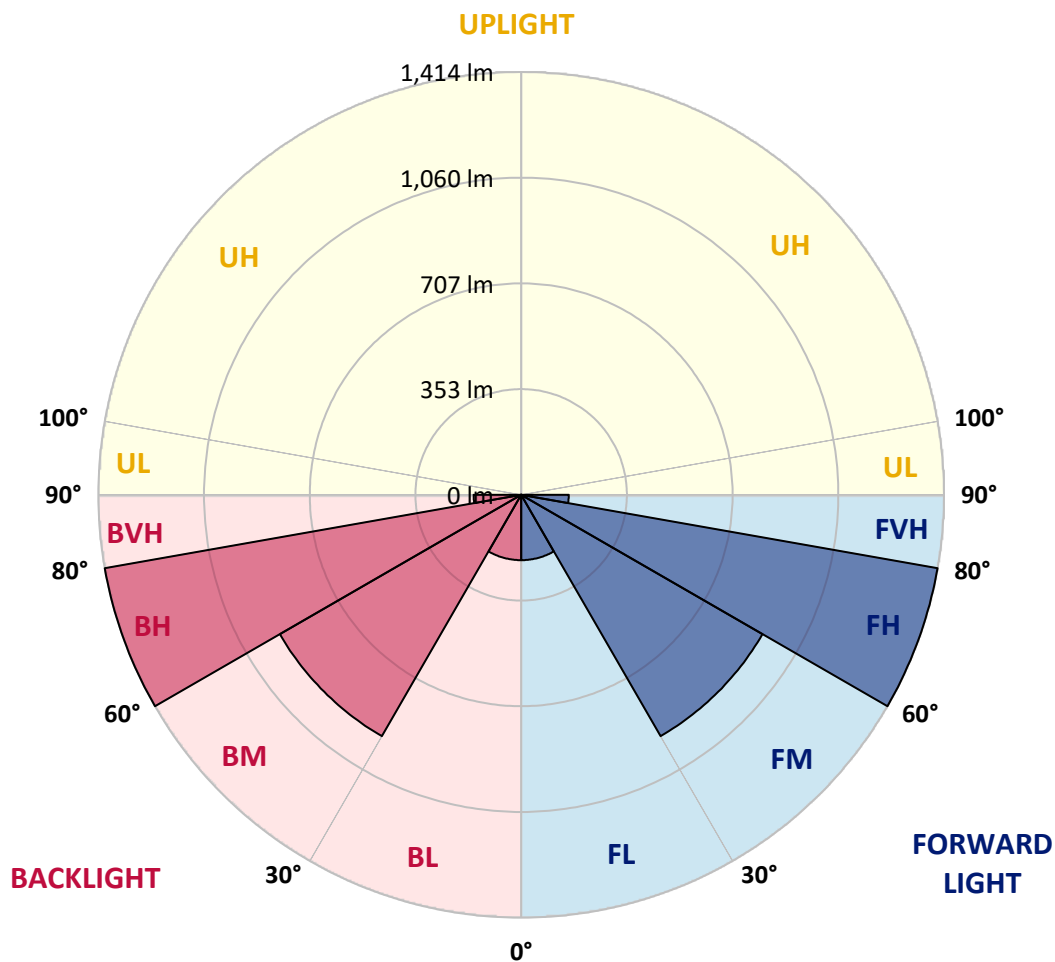
CATALOG NUMBER: MEM-E02-LED-E-U-5XQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 218.5 | 4.0 | | | |
| FM | (30°-60°) | 931.6 | 17.1 | | | |
| FH | (60°-80°) | 1413.9 | 26.0 | | | G1/1800 |
| FVH | (80°-90°) | 159.2 | 2.9 | | | G2/225 |
| BL | (0°-30°) | 218.5 | 4.0 | B1/500 | | |
| BM | (30°-60°) | 931.6 | 17.1 | B1/1000 | | |
| BH | (60°-80°) | 1413.9 | 26.0 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 159.2 | 2.9 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 500.5 | 500.5 | 500.5 | 500.5 | 500.5 | 500.5 | 500.5 | 500.5 | 500.5 | 500.5 | 500.5 |
| 2.5° | 502.3 | 503.0 | 502.3 | 501.7 | 501.7 | 501.1 | 501.1 | 501.1 | 501.7 | 500.5 | 500.5 |
| 5° | 503.6 | 504.2 | 503.6 | 502.3 | 502.3 | 502.3 | 501.7 | 501.7 | 502.3 | 501.7 | 501.7 |
| 7.5° | 505.4 | 506.0 | 505.4 | 504.2 | 504.2 | 503.6 | 503.0 | 503.0 | 504.2 | 503.0 | 503.0 |
| 10° | 507.2 | 508.4 | 507.2 | 506.0 | 506.0 | 505.4 | 504.8 | 504.8 | 505.4 | 504.2 | 504.2 |
| 12.5° | 510.3 | 510.3 | 509.6 | 509.0 | 509.0 | 508.4 | 507.8 | 507.2 | 506.6 | 506.0 | 505.4 |
| 15° | 512.7 | 513.3 | 512.1 | 511.5 | 510.9 | 510.3 | 509.6 | 509.6 | 508.4 | 507.8 | 507.8 |
| 17.5° | 515.7 | 516.3 | 515.1 | 513.9 | 513.9 | 512.7 | 512.1 | 512.1 | 510.9 | 510.3 | 509.6 |
| 20° | 518.8 | 519.4 | 518.2 | 517.6 | 517.0 | 516.3 | 515.1 | 515.7 | 515.1 | 513.9 | 513.9 |
| 22.5° | 522.4 | 522.4 | 521.8 | 521.2 | 521.2 | 520.6 | 520.0 | 521.2 | 520.0 | 520.0 | 519.4 |
| 25° | 526.1 | 526.7 | 526.1 | 526.1 | 526.7 | 526.7 | 527.3 | 528.5 | 528.5 | 527.9 | 527.3 |
| 27.5° | 534.0 | 534.0 | 534.0 | 534.0 | 535.8 | 535.8 | 536.4 | 538.3 | 538.9 | 538.9 | 538.9 |
| 30° | 544.4 | 545.0 | 544.4 | 544.4 | 546.2 | 546.8 | 548.6 | 550.4 | 551.7 | 551.7 | 552.3 |
| 32.5° | 559.6 | 559.0 | 559.6 | 560.8 | 562.0 | 563.2 | 565.1 | 568.1 | 569.9 | 570.5 | 570.5 |
| 35° | 579.1 | 579.7 | 579.1 | 579.7 | 582.1 | 583.9 | 585.8 | 589.4 | 590.6 | 591.9 | 592.5 |
| 37.5° | 607.7 | 609.5 | 608.3 | 608.3 | 611.3 | 612.6 | 615.0 | 618.0 | 620.5 | 621.7 | 621.1 |
| 40° | 649.1 | 648.5 | 647.3 | 647.9 | 648.5 | 649.7 | 652.1 | 658.2 | 661.3 | 661.3 | 661.3 |
| 42.5° | 696.6 | 697.2 | 695.4 | 694.8 | 695.4 | 696.6 | 700.2 | 705.1 | 710.0 | 708.8 | 709.4 |
| 45° | 750.8 | 746.5 | 747.7 | 746.5 | 747.1 | 751.4 | 757.5 | 759.9 | 764.8 | 764.8 | 766.0 |
| 47.5° | 803.7 | 801.9 | 801.3 | 800.7 | 802.5 | 806.8 | 814.1 | 822.0 | 826.3 | 828.7 | 830.5 |
| 50° | 863.4 | 860.4 | 859.8 | 860.4 | 861.0 | 862.2 | 876.2 | 884.1 | 894.5 | 896.3 | 895.7 |
| 52.5° | 921.3 | 918.8 | 917.6 | 917.6 | 920.0 | 924.3 | 938.9 | 951.7 | 963.3 | 970.6 | 967.5 |
| 55° | 984.0 | 984.0 | 980.3 | 979.1 | 982.8 | 987.0 | 1007.1 | 1021.7 | 1038.2 | 1043.7 | 1035.1 |
| 57.5° | 1048.5 | 1047.9 | 1042.4 | 1040.6 | 1043.7 | 1054.6 | 1071.7 | 1094.2 | 1111.9 | 1116.7 | 1111.9 |
| 60° | 1111.9 | 1111.9 | 1108.8 | 1107.6 | 1110.6 | 1124.0 | 1144.7 | 1169.7 | 1191.0 | 1200.1 | 1192.2 |
| 62.5° | 1184.3 | 1184.3 | 1176.4 | 1180.0 | 1184.3 | 1194.7 | 1220.8 | 1253.1 | 1281.7 | 1286.6 | 1279.3 |
| 65° | 1266.5 | 1270.2 | 1264.1 | 1262.9 | 1268.3 | 1287.8 | 1317.7 | 1358.5 | 1391.9 | 1404.7 | 1393.8 |
| 67.5° | 1391.9 | 1386.5 | 1379.2 | 1376.1 | 1384.6 | 1402.9 | 1439.4 | 1493.0 | 1542.3 | 1554.5 | 1541.7 |
| 70° | 1522.3 | 1516.8 | 1514.3 | 1524.1 | 1542.3 | 1580.7 | 1636.7 | 1711.6 | 1780.4 | 1809.7 | 1782.9 |
| 72° | 1472.3 | 1465.0 | 1463.2 | 1483.9 | 1519.2 | 1581.9 | 1685.4 | 1806.0 | 1915.6 | 1956.4 | 1905.9 |
| 72.5° | 1446.7 | 1440.7 | 1440.0 | 1459.5 | 1497.9 | 1561.2 | 1662.9 | 1787.1 | 1904.6 | 1949.1 | 1894.9 |
| 75° | 1343.2 | 1337.1 | 1343.2 | 1365.2 | 1403.5 | 1471.7 | 1575.2 | 1691.5 | 1797.5 | 1838.3 | 1785.3 |
| 77.5° | 1200.1 | 1189.2 | 1194.7 | 1225.1 | 1267.7 | 1342.0 | 1451.6 | 1589.2 | 1691.5 | 1680.6 | 1602.0 |
| 80° | 957.8 | 933.4 | 959.6 | 968.8 | 1017.5 | 1067.4 | 1173.4 | 1234.8 | 1270.2 | 1272.0 | 1216.0 |
| 82.5° | 418.3 | 428.1 | 460.9 | 488.3 | 523.0 | 580.9 | 623.5 | 689.9 | 767.2 | 803.1 | 759.9 |
| 85° | 27.4 | 34.1 | 54.2 | 64.5 | 89.5 | 109.0 | 156.5 | 227.7 | 274.6 | 314.2 | 264.9 |
| 87.5° | 4.9 | 6.7 | 12.2 | 14.6 | 15.8 | 17.7 | 17.7 | 24.4 | 25.6 | 20.7 | 23.1 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 500.5 | 500.5 | 500.5 | 500.5 | 500.5 | 500.5 | 500.5 | 500.5 |
| 2.5° | 500.5 | 500.5 | 501.1 | 500.5 | 500.5 | 500.5 | 499.9 | 499.9 |
| 5° | 501.1 | 501.1 | 501.7 | 501.7 | 501.1 | 501.1 | 501.1 | 501.1 |
| 7.5° | 503.0 | 502.3 | 503.0 | 503.0 | 502.3 | 502.3 | 501.7 | 502.3 |
| 10° | 503.6 | 503.6 | 504.2 | 504.2 | 503.6 | 503.6 | 503.6 | 503.6 |
| 12.5° | 505.4 | 505.4 | 505.4 | 506.0 | 505.4 | 505.4 | 506.0 | 505.4 |
| 15° | 507.2 | 506.6 | 506.6 | 506.6 | 506.6 | 507.2 | 507.2 | 507.8 |
| 17.5° | 509.0 | 509.0 | 508.4 | 509.0 | 509.0 | 509.6 | 509.6 | 509.6 |
| 20° | 512.7 | 512.1 | 510.9 | 512.1 | 512.1 | 512.1 | 512.1 | 512.7 |
| 22.5° | 518.2 | 517.0 | 515.7 | 515.7 | 515.1 | 515.7 | 515.1 | 515.1 |
| 25° | 526.1 | 524.3 | 522.4 | 521.8 | 521.2 | 520.6 | 520.0 | 520.6 |
| 27.5° | 537.7 | 535.2 | 532.8 | 531.6 | 531.0 | 529.7 | 529.1 | 529.1 |
| 30° | 550.4 | 548.6 | 545.0 | 543.7 | 541.9 | 540.1 | 540.1 | 539.5 |
| 32.5° | 569.9 | 567.5 | 563.2 | 561.4 | 558.4 | 556.5 | 555.9 | 555.9 |
| 35° | 590.0 | 587.0 | 585.2 | 582.7 | 579.1 | 577.2 | 576.6 | 576.6 |
| 37.5° | 620.5 | 616.8 | 614.4 | 611.3 | 610.7 | 608.3 | 608.3 | 608.3 |
| 40° | 660.0 | 657.0 | 654.0 | 651.5 | 649.7 | 647.9 | 645.4 | 645.4 |
| 42.5° | 708.8 | 703.9 | 702.1 | 699.0 | 696.6 | 694.8 | 693.5 | 693.5 |
| 45° | 762.3 | 758.1 | 755.6 | 751.4 | 750.8 | 749.6 | 747.1 | 747.1 |
| 47.5° | 822.6 | 816.5 | 811.7 | 810.4 | 807.4 | 804.4 | 803.1 | 803.7 |
| 50° | 888.4 | 878.0 | 871.3 | 871.3 | 867.7 | 863.4 | 864.0 | 863.4 |
| 52.5° | 956.0 | 944.4 | 935.9 | 929.8 | 925.5 | 924.9 | 925.5 | 924.9 |
| 55° | 1024.2 | 1012.0 | 1001.6 | 994.9 | 990.7 | 986.4 | 985.8 | 985.8 |
| 57.5° | 1094.8 | 1079.6 | 1063.1 | 1057.1 | 1052.8 | 1050.4 | 1050.4 | 1051.0 |
| 60° | 1174.6 | 1149.6 | 1128.9 | 1121.0 | 1117.9 | 1119.2 | 1118.5 | 1119.2 |
| 62.5° | 1255.6 | 1226.9 | 1202.6 | 1193.4 | 1189.2 | 1188.6 | 1193.4 | 1195.3 |
| 65° | 1357.8 | 1322.5 | 1295.1 | 1278.1 | 1278.1 | 1276.3 | 1281.7 | 1279.3 |
| 67.5° | 1491.2 | 1441.3 | 1407.8 | 1380.4 | 1381.0 | 1382.8 | 1390.7 | 1390.1 |
| 70° | 1718.3 | 1630.0 | 1567.9 | 1521.0 | 1502.8 | 1490.6 | 1488.2 | 1488.2 |
| 72° | 1788.3 | 1656.8 | 1554.5 | 1480.8 | 1443.1 | 1420.0 | 1413.3 | 1406.0 |
| 72.5° | 1770.1 | 1634.9 | 1531.4 | 1454.7 | 1415.7 | 1392.6 | 1382.2 | 1373.1 |
| 75° | 1655.0 | 1504.0 | 1391.3 | 1311.0 | 1267.7 | 1239.7 | 1234.2 | 1230.0 |
| 77.5° | 1460.1 | 1326.2 | 1209.9 | 1126.5 | 1083.2 | 1047.3 | 1032.7 | 1031.5 |
| 80° | 1125.9 | 1005.3 | 915.8 | 850.6 | 811.7 | 784.9 | 786.1 | 777.6 |
| 82.5° | 664.3 | 562.6 | 485.9 | 398.8 | 341.6 | 308.7 | 288.0 | 285.6 |
| 85° | 195.5 | 132.7 | 84.6 | 60.9 | 43.8 | 32.9 | 24.4 | 21.9 |
| 87.5° | 17.7 | 14.0 | 11.6 | 9.7 | 9.1 | 7.9 | 4.9 | 3.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)