

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: INVUE

Report Number: P674571

Luminaire Tested: **CCP-SA-1C-750-U-T2R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674571
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1C-750-U-T2R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @615mA w/ T2R distribution lens and House Side Shield
Light Source: (16) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3744.7 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

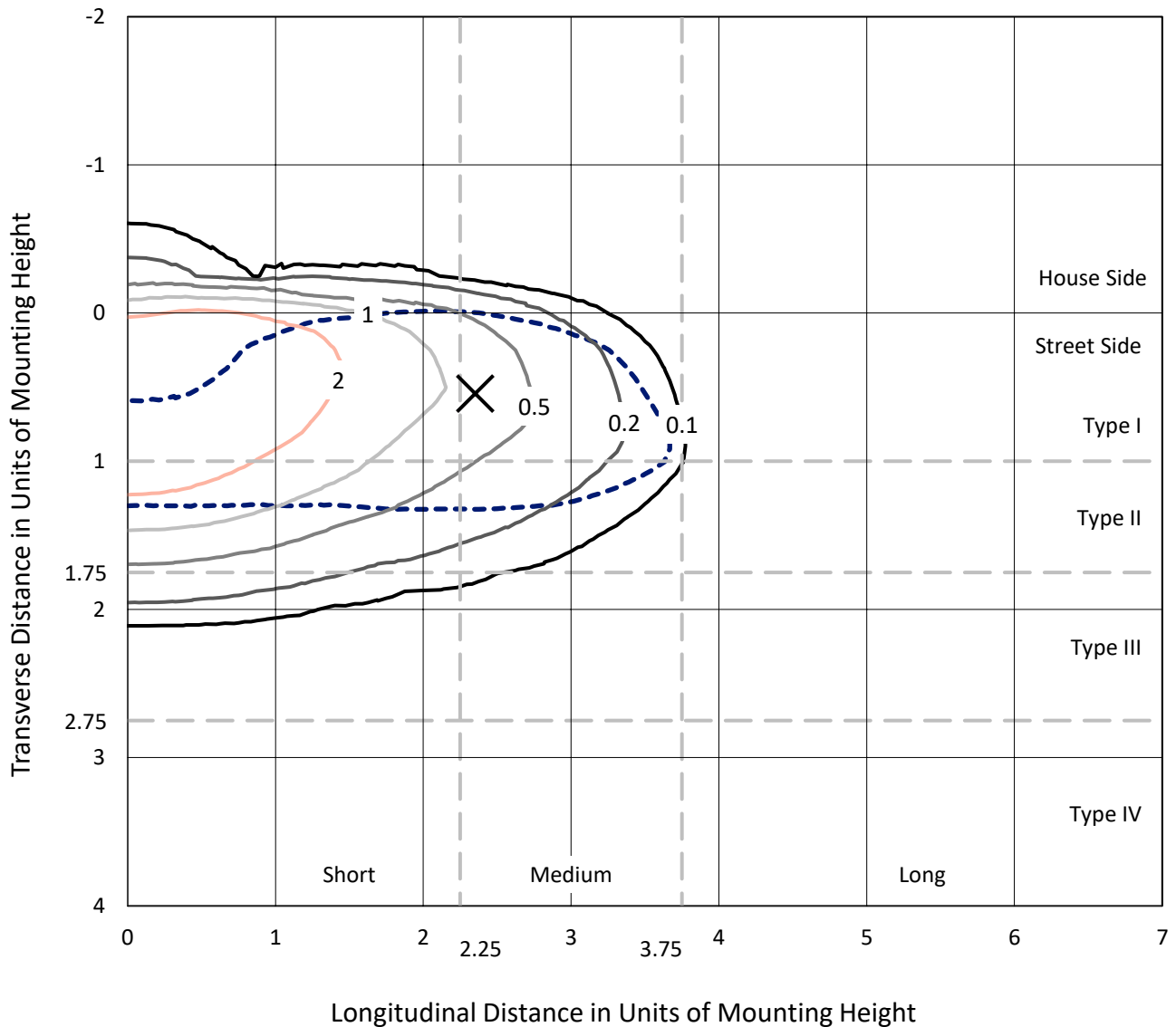
Input Watts (W): 32
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

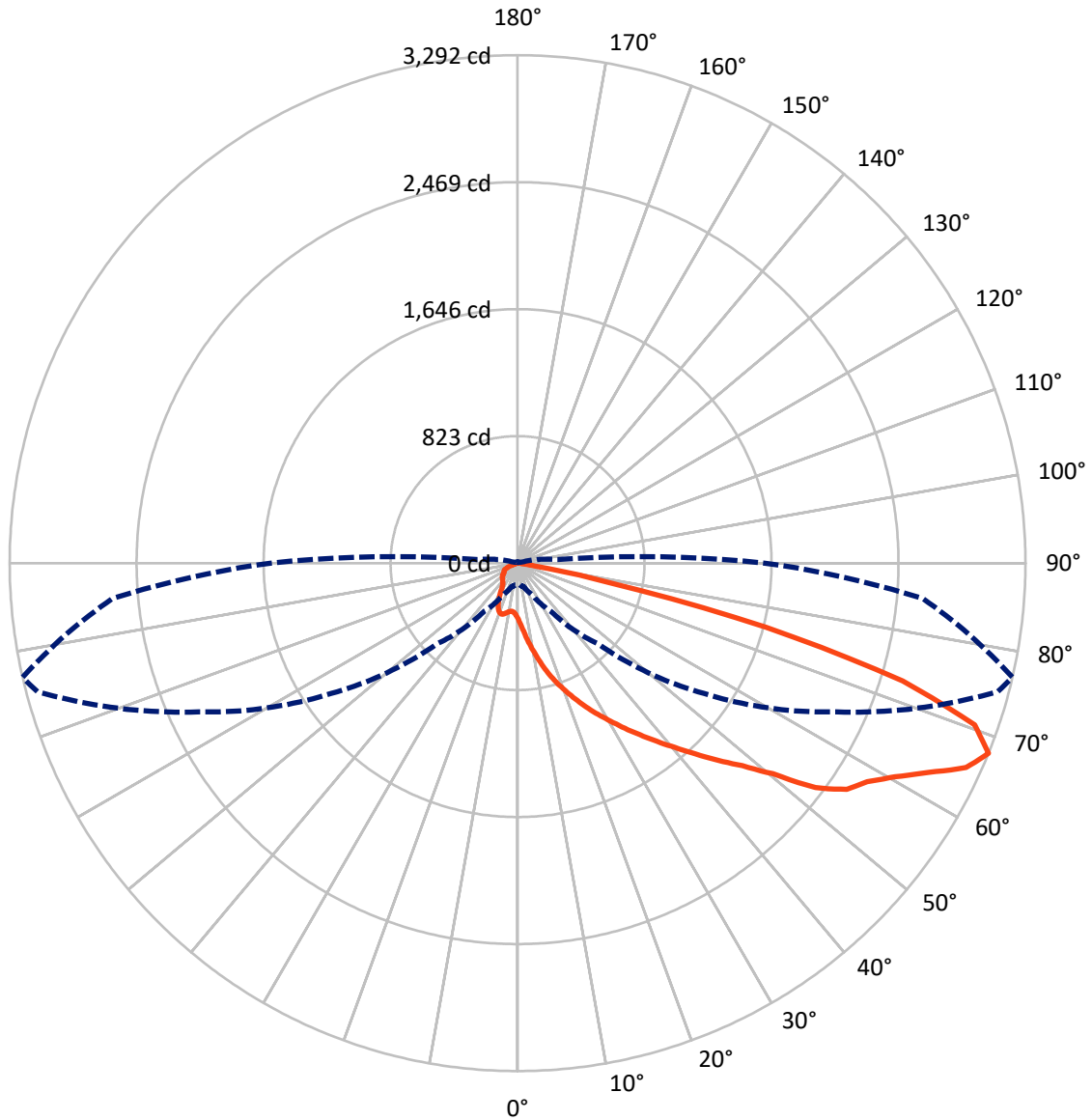
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 234.0 | 0.0 | 234.0 |
| | % Fixture | 6.2 | 0.0 | 6.2 |
| Street Side | Lumens | 3510.7 | 0.0 | 3510.7 |
| | % Fixture | 93.8 | 0.0 | 93.8 |
| Total | Lumens | 3744.7 | 0.0 | 3744.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 42.2 | 1.1 |
| 10°-20° | 155.9 | 4.2 |
| 20°-30° | 304.5 | 8.1 |
| 30°-40° | 532.4 | 14.2 |
| 40°-50° | 776.5 | 20.7 |
| 50°-60° | 908.0 | 24.2 |
| 60°-70° | 736.1 | 19.7 |
| 70°-80° | 276.5 | 7.4 |
| 80°-90° | 12.6 | 0.3 |
| 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° | 3744.7 | 100.0 |
| 0°-180° | 3744.7 | 100.0 |

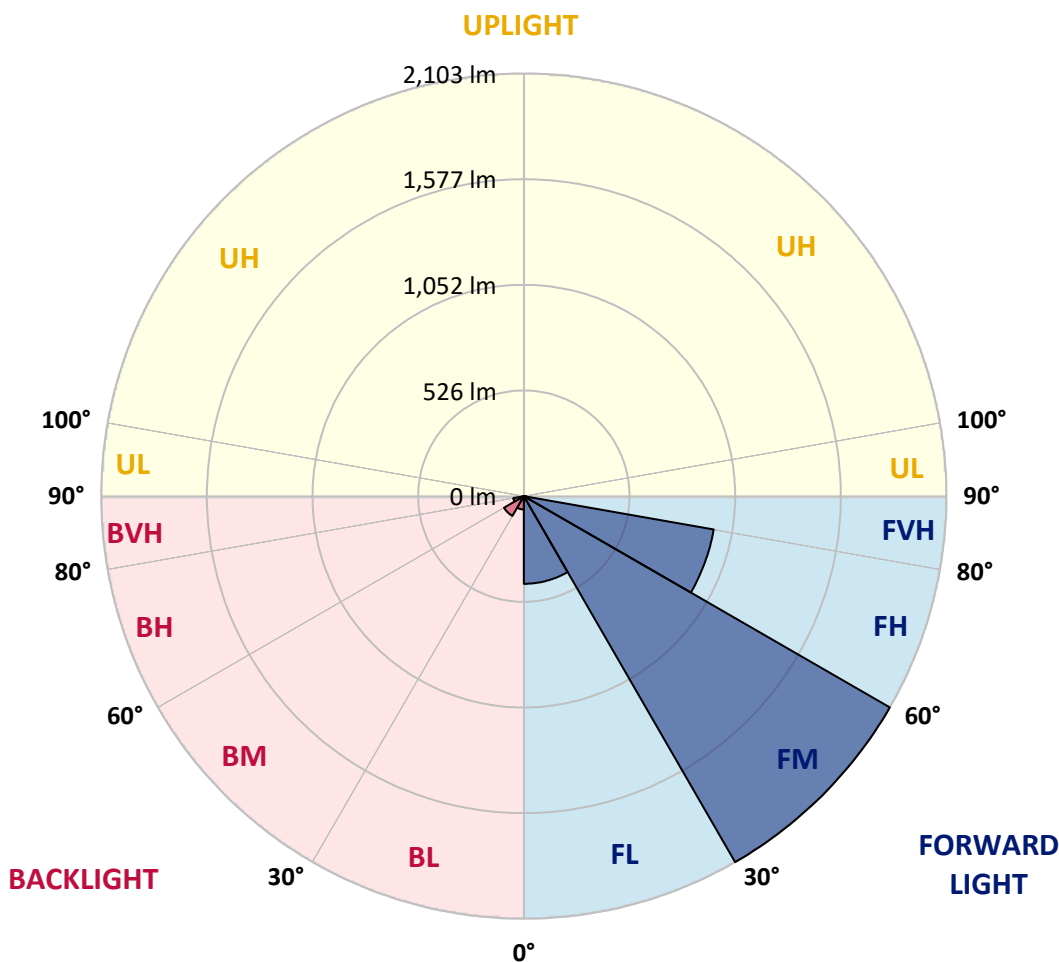


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 436.2 | 11.6 | | | |
| FM (30°-60°) | 2103.1 | 56.2 | | | |
| FH (60°-80°) | 959.5 | 25.6 | | | G1/1800 |
| FVH (80°-90°) | 11.8 | 0.3 | | | G1/100 |
| BL (0°-30°) | 66.4 | 1.8 | B0/110 | | |
| BM (30°-60°) | 113.8 | 3.0 | B0/220 | | |
| BH (60°-80°) | 53.1 | 1.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.7 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 358.7 | 358.7 | 358.7 | 358.7 | 358.7 | 358.7 | 358.7 | 358.7 | 358.7 | 358.7 | 358.7 |
| 2.5° | 538.5 | 518.9 | 522.6 | 514.5 | 504.0 | 479.7 | 454.0 | 428.3 | 405.3 | 400.3 | 377.3 |
| 5° | 689.6 | 683.5 | 677.1 | 671.7 | 649.7 | 619.3 | 573.0 | 514.2 | 461.1 | 452.0 | 404.3 |
| 7.5° | 806.9 | 797.8 | 803.5 | 787.0 | 764.0 | 734.6 | 675.8 | 612.9 | 531.1 | 517.6 | 443.5 |
| 10° | 893.5 | 888.4 | 891.1 | 883.3 | 872.2 | 842.8 | 784.6 | 705.9 | 611.2 | 585.5 | 487.5 |
| 12.5° | 958.4 | 959.4 | 971.2 | 971.9 | 962.8 | 938.8 | 877.2 | 795.1 | 683.9 | 660.9 | 536.1 |
| 15° | 1005.7 | 1006.7 | 1021.3 | 1036.8 | 1047.3 | 1034.8 | 979.0 | 887.0 | 769.4 | 738.0 | 587.2 |
| 17.5° | 1013.5 | 1014.2 | 1039.8 | 1071.3 | 1103.7 | 1114.6 | 1071.6 | 978.3 | 847.5 | 811.7 | 645.7 |
| 20° | 1018.5 | 1024.3 | 1047.3 | 1083.5 | 1134.8 | 1168.3 | 1145.0 | 1065.9 | 923.2 | 881.6 | 703.1 |
| 22.5° | 1080.1 | 1080.1 | 1093.6 | 1119.3 | 1160.2 | 1212.6 | 1207.9 | 1146.3 | 996.9 | 955.7 | 760.3 |
| 25° | 1210.6 | 1210.6 | 1197.4 | 1190.6 | 1212.6 | 1253.8 | 1265.7 | 1232.2 | 1081.1 | 1032.4 | 820.5 |
| 27.5° | 1383.3 | 1383.3 | 1362.7 | 1313.0 | 1294.1 | 1311.3 | 1323.8 | 1306.9 | 1158.8 | 1110.8 | 884.0 |
| 30° | 1562.5 | 1568.6 | 1532.7 | 1469.5 | 1403.3 | 1390.1 | 1377.9 | 1374.2 | 1241.7 | 1187.6 | 948.6 |
| 32.5° | 1742.3 | 1741.6 | 1697.0 | 1618.3 | 1531.7 | 1485.1 | 1445.5 | 1441.1 | 1329.6 | 1276.5 | 1009.8 |
| 35° | 1886.0 | 1886.3 | 1839.3 | 1758.5 | 1658.5 | 1599.0 | 1535.4 | 1514.8 | 1425.9 | 1366.7 | 1082.8 |
| 37.5° | 2010.4 | 2003.3 | 1952.6 | 1875.8 | 1782.5 | 1721.0 | 1641.9 | 1588.2 | 1525.6 | 1465.5 | 1155.8 |
| 40° | 2081.7 | 2072.3 | 2022.9 | 1949.9 | 1879.2 | 1832.2 | 1762.6 | 1676.7 | 1635.2 | 1570.3 | 1239.0 |
| 42.5° | 2092.2 | 2084.1 | 2051.3 | 2007.4 | 1949.5 | 1908.3 | 1889.7 | 1776.8 | 1750.1 | 1691.3 | 1338.3 |
| 45° | 2062.8 | 2049.6 | 2038.8 | 2015.8 | 1999.6 | 1979.6 | 2005.0 | 1883.3 | 1881.9 | 1823.5 | 1436.7 |
| 47.5° | 1989.8 | 1971.9 | 1974.6 | 1999.9 | 2018.2 | 2036.1 | 2115.2 | 2022.9 | 2014.8 | 1960.0 | 1565.9 |
| 50° | 1865.0 | 1856.2 | 1886.0 | 1936.0 | 2008.4 | 2080.0 | 2225.1 | 2165.6 | 2197.7 | 2146.3 | 1744.0 |
| 52.5° | 1611.5 | 1622.3 | 1711.2 | 1831.6 | 1956.6 | 2100.7 | 2328.2 | 2378.5 | 2460.7 | 2418.4 | 1923.2 |
| 55° | 1307.2 | 1303.2 | 1421.8 | 1635.5 | 1835.3 | 2087.5 | 2373.1 | 2503.9 | 2633.1 | 2588.8 | 2022.9 |
| 57.5° | 1053.0 | 1060.1 | 1140.2 | 1351.5 | 1629.4 | 1985.7 | 2383.6 | 2569.5 | 2702.4 | 2673.0 | 2115.2 |
| 60° | 790.4 | 797.1 | 870.1 | 1054.0 | 1355.6 | 1773.4 | 2297.1 | 2592.5 | 2832.5 | 2810.2 | 2262.6 |
| 62.5° | 503.0 | 511.8 | 585.2 | 764.0 | 1036.1 | 1443.5 | 2102.7 | 2568.5 | 2968.4 | 2987.0 | 2463.7 |
| 65° | 247.5 | 255.2 | 309.3 | 446.2 | 692.7 | 1079.4 | 1831.6 | 2476.9 | 3141.5 | 3194.6 | 2625.0 |
| 67.5° | 136.9 | 140.6 | 159.2 | 227.2 | 386.4 | 740.3 | 1471.9 | 2281.2 | 3221.0 | 3291.9 | 2635.8 |
| 70° | 106.5 | 107.5 | 114.6 | 132.5 | 188.3 | 434.4 | 1046.9 | 1955.3 | 3056.3 | 3142.2 | 2416.4 |
| 72.5° | 89.6 | 90.9 | 94.3 | 100.4 | 117.6 | 226.2 | 657.8 | 1511.1 | 2571.6 | 2610.4 | 1869.4 |
| 75° | 65.6 | 67.6 | 77.1 | 82.5 | 93.0 | 137.2 | 290.0 | 908.0 | 1699.4 | 1661.2 | 1045.9 |
| 77.5° | 55.1 | 56.8 | 59.2 | 66.9 | 76.7 | 93.6 | 101.8 | 380.6 | 691.7 | 601.4 | 274.5 |
| 80° | 37.5 | 39.6 | 46.0 | 50.0 | 64.9 | 61.9 | 42.3 | 102.1 | 138.9 | 113.2 | 52.7 |
| 82.5° | 26.7 | 28.4 | 31.8 | 40.9 | 47.0 | 32.8 | 23.0 | 31.1 | 33.5 | 31.8 | 17.2 |
| 85° | 8.5 | 10.8 | 23.0 | 33.8 | 25.4 | 11.2 | 14.5 | 11.8 | 10.5 | 10.1 | 6.8 |
| 87.5° | 1.7 | 1.7 | 11.5 | 13.5 | 10.1 | 5.7 | 5.1 | 3.7 | 4.7 | 4.7 | 3.7 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 358.7 | 358.7 | 358.7 | 358.7 | 358.7 | 358.7 | 358.7 | 358.7 | 358.7 | 358.7 | 358.7 |
| 2.5° | 366.4 | 351.2 | 329.3 | 308.6 | 287.7 | 272.8 | 262.3 | 251.8 | 247.8 | 246.1 | 241.7 |
| 5° | 382.7 | 353.6 | 310.0 | 274.8 | 249.1 | 232.9 | 223.1 | 214.7 | 209.3 | 207.6 | 205.2 |
| 7.5° | 406.0 | 364.1 | 301.5 | 261.0 | 235.3 | 217.7 | 201.8 | 183.6 | 169.0 | 163.3 | 160.9 |
| 10° | 431.4 | 380.0 | 302.9 | 258.3 | 224.1 | 185.6 | 150.1 | 120.7 | 107.8 | 103.1 | 99.7 |
| 12.5° | 468.5 | 397.5 | 308.6 | 255.2 | 190.7 | 132.5 | 96.0 | 83.8 | 80.8 | 80.1 | 79.4 |
| 15° | 505.7 | 422.2 | 318.1 | 234.9 | 142.3 | 90.3 | 79.8 | 75.4 | 73.7 | 72.0 | 72.0 |
| 17.5° | 543.2 | 445.9 | 321.8 | 195.4 | 98.4 | 78.1 | 72.7 | 69.0 | 66.3 | 64.9 | 63.9 |
| 20° | 585.5 | 470.9 | 311.0 | 147.1 | 78.8 | 71.3 | 65.2 | 60.8 | 58.5 | 57.1 | 56.1 |
| 22.5° | 631.1 | 495.6 | 287.3 | 102.4 | 71.7 | 64.2 | 58.5 | 54.1 | 51.7 | 50.4 | 50.0 |
| 25° | 674.1 | 516.9 | 249.5 | 77.1 | 64.6 | 57.5 | 52.1 | 48.3 | 46.7 | 45.3 | 45.0 |
| 27.5° | 718.4 | 535.1 | 200.1 | 67.9 | 58.8 | 52.1 | 46.7 | 43.6 | 41.9 | 40.9 | 40.6 |
| 30° | 761.6 | 547.6 | 149.1 | 62.2 | 53.8 | 47.0 | 42.3 | 39.9 | 38.2 | 37.2 | 36.8 |
| 32.5° | 806.3 | 554.7 | 100.7 | 57.1 | 48.7 | 42.6 | 38.5 | 36.2 | 35.2 | 34.1 | 34.1 |
| 35° | 849.2 | 553.7 | 72.7 | 52.4 | 44.6 | 38.5 | 34.8 | 33.1 | 32.8 | 31.8 | 31.8 |
| 37.5° | 896.2 | 546.6 | 61.9 | 48.0 | 40.2 | 34.8 | 31.8 | 30.8 | 30.4 | 29.7 | 29.4 |
| 40° | 949.6 | 530.7 | 56.5 | 44.6 | 36.5 | 31.8 | 29.1 | 28.4 | 28.1 | 27.4 | 27.4 |
| 42.5° | 1008.1 | 510.1 | 53.4 | 40.9 | 33.5 | 28.7 | 26.7 | 25.7 | 25.4 | 24.7 | 24.7 |
| 45° | 1076.0 | 490.5 | 51.4 | 37.2 | 30.8 | 26.4 | 24.3 | 23.3 | 23.0 | 22.3 | 22.3 |
| 47.5° | 1168.6 | 479.4 | 48.0 | 33.8 | 27.7 | 24.0 | 22.0 | 21.3 | 20.6 | 19.9 | 19.9 |
| 50° | 1296.1 | 466.2 | 43.6 | 30.4 | 25.4 | 21.6 | 20.3 | 19.3 | 18.9 | 18.3 | 18.3 |
| 52.5° | 1400.9 | 438.1 | 39.2 | 27.0 | 22.6 | 19.9 | 18.6 | 17.9 | 17.2 | 16.9 | 16.9 |
| 55° | 1437.7 | 405.3 | 34.8 | 24.3 | 20.6 | 18.6 | 17.2 | 16.6 | 16.2 | 15.9 | 15.9 |
| 57.5° | 1496.6 | 394.8 | 30.8 | 21.6 | 18.6 | 17.2 | 15.9 | 15.6 | 15.2 | 14.9 | 14.5 |
| 60° | 1597.0 | 400.9 | 27.0 | 19.3 | 16.9 | 15.6 | 14.5 | 14.2 | 13.5 | 12.8 | 12.8 |
| 62.5° | 1694.3 | 393.5 | 23.0 | 16.9 | 14.5 | 13.9 | 12.8 | 12.2 | 10.8 | 9.8 | 9.1 |
| 65° | 1718.0 | 343.8 | 19.9 | 14.2 | 12.2 | 11.5 | 10.5 | 9.1 | 7.1 | 5.7 | 5.7 |
| 67.5° | 1603.4 | 261.3 | 17.2 | 12.2 | 10.1 | 9.5 | 7.4 | 6.1 | 4.4 | 3.4 | 3.4 |
| 70° | 1323.1 | 165.6 | 14.2 | 9.5 | 8.5 | 6.4 | 4.7 | 4.4 | 3.0 | 2.7 | 2.4 |
| 72.5° | 954.7 | 90.6 | 11.8 | 7.8 | 6.1 | 4.1 | 3.4 | 2.7 | 2.0 | 1.4 | 1.4 |
| 75° | 483.4 | 42.6 | 8.8 | 6.1 | 4.1 | 2.7 | 2.0 | 1.4 | 1.4 | 1.0 | 1.0 |
| 77.5° | 136.9 | 19.6 | 5.7 | 4.1 | 2.7 | 1.7 | 1.4 | 1.0 | 1.0 | 0.7 | 0.7 |
| 80° | 27.0 | 9.8 | 3.7 | 2.7 | 2.0 | 1.4 | 1.0 | 0.7 | 0.7 | 0.3 | 0.3 |
| 82.5° | 9.8 | 5.1 | 2.7 | 2.0 | 1.7 | 1.4 | 0.7 | 0.3 | 0.3 | 0.0 | 0.0 |
| 85° | 5.1 | 2.7 | 2.0 | 1.7 | 1.4 | 1.0 | 0.7 | 0.3 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.7 | 2.0 | 1.7 | 1.7 | 1.4 | 1.0 | 0.7 | 0.3 | 0.0 | 0.0 | 0.0 |
| 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)