

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: P675114

Luminaire Tested: **CCW-SA-1D-735-U-T4FT**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675114
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-735-U-T4FT
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T4FT distribution lens
Light Source: (16) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

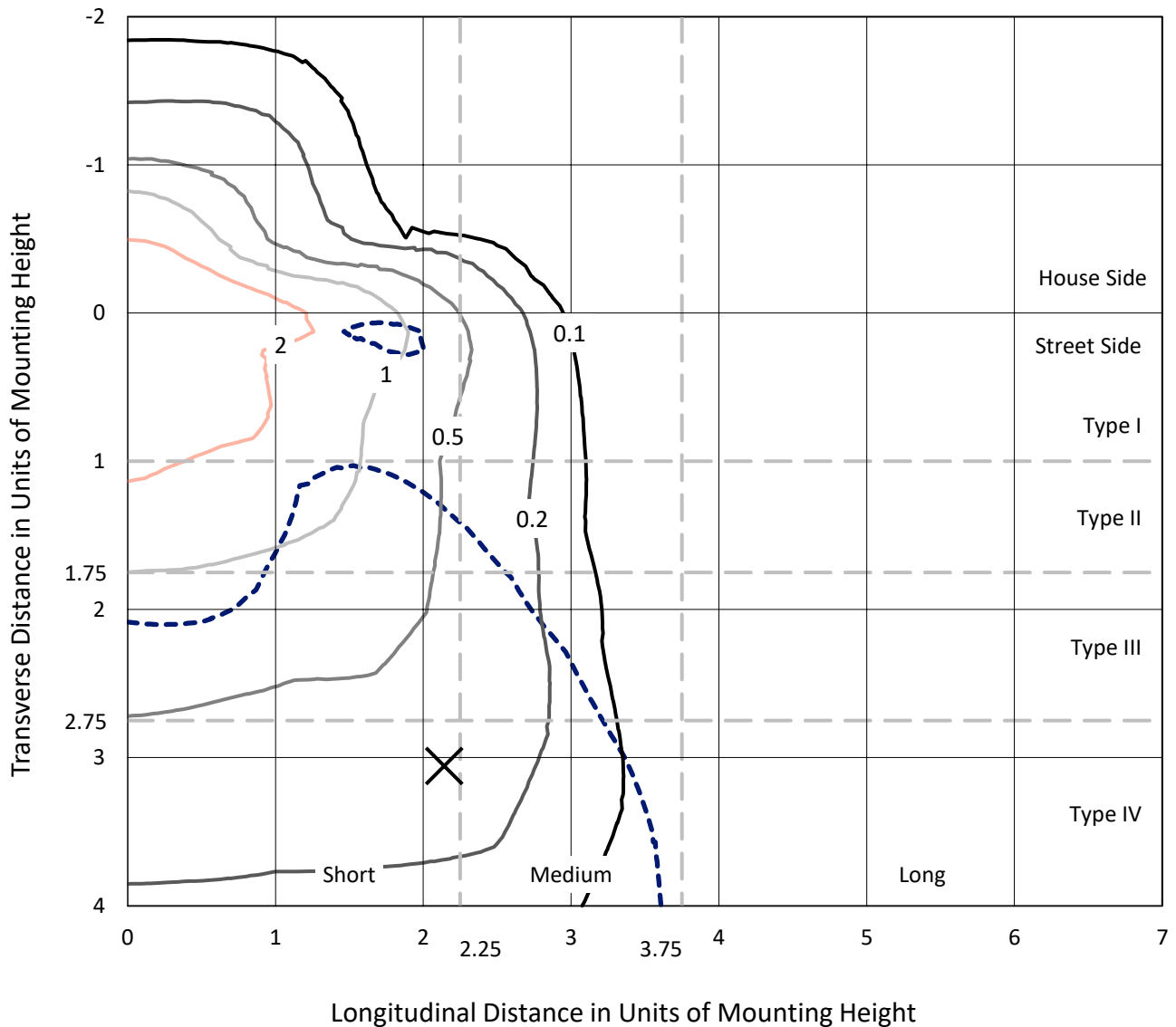
Lumens per Lamp: N/A
Luminaire Lumens: 5497.1 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
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

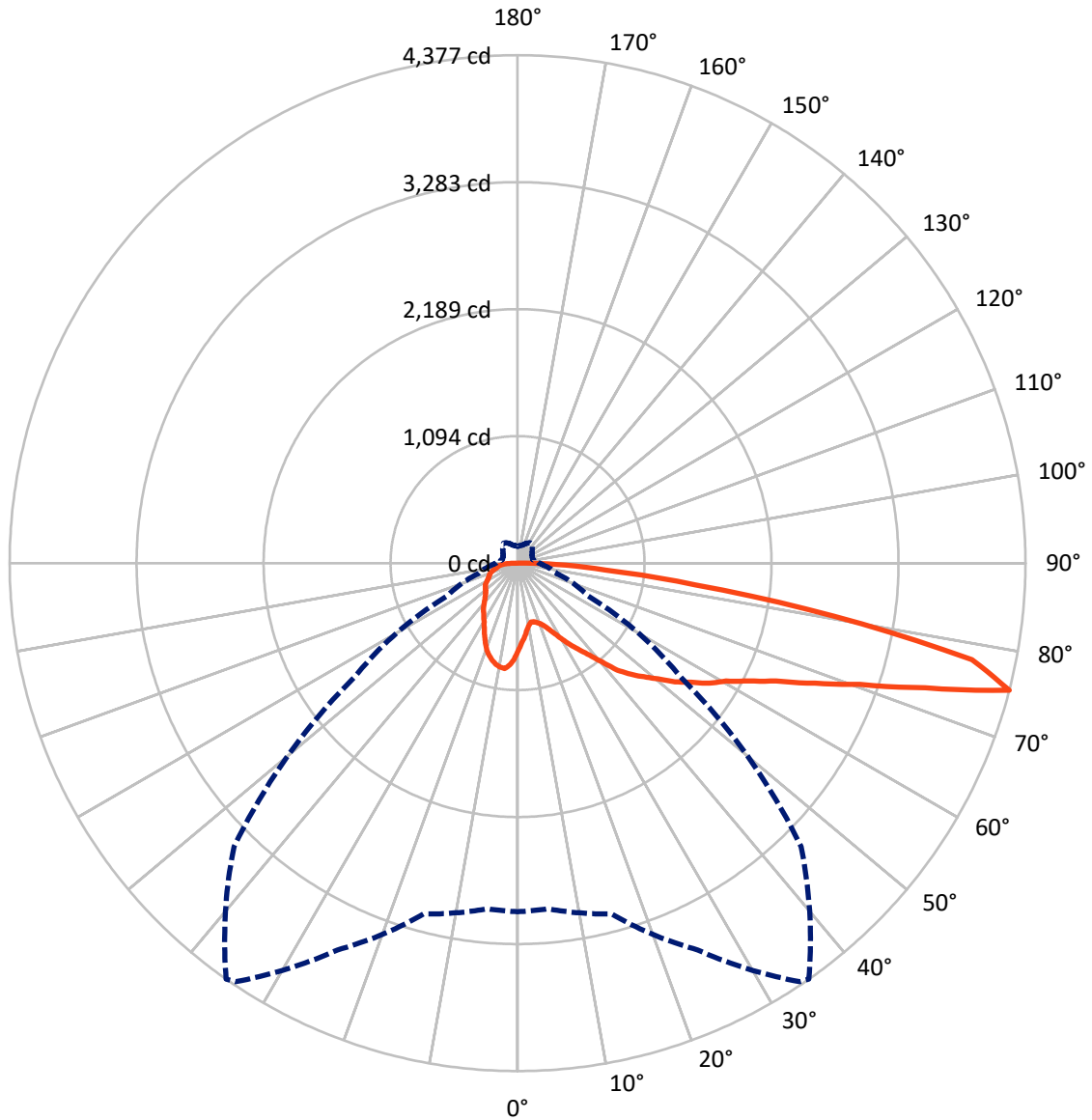
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1263.4 | 0.0 | 1263.4 |
| | % Fixture | 23.0 | 0.0 | 23.0 |
| Street Side | Lumens | 4233.7 | 0.0 | 4233.7 |
| | % Fixture | 77.0 | 0.0 | 77.0 |
| Total | Lumens | 5497.1 | 0.0 | 5497.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 71.8 | 1.3 |
| 10°-20° | 208.3 | 3.8 |
| 20°-30° | 345.6 | 6.3 |
| 30°-40° | 512.3 | 9.3 |
| 40°-50° | 738.7 | 13.4 |
| 50°-60° | 1015.8 | 18.5 |
| 60°-70° | 1254.7 | 22.8 |
| 70°-80° | 1147.9 | 20.9 |
| 80°-90° | 202.1 | 3.7 |
| 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° | 5497.1 | 100.0 |
| 0°-180° | 5497.1 | 100.0 |



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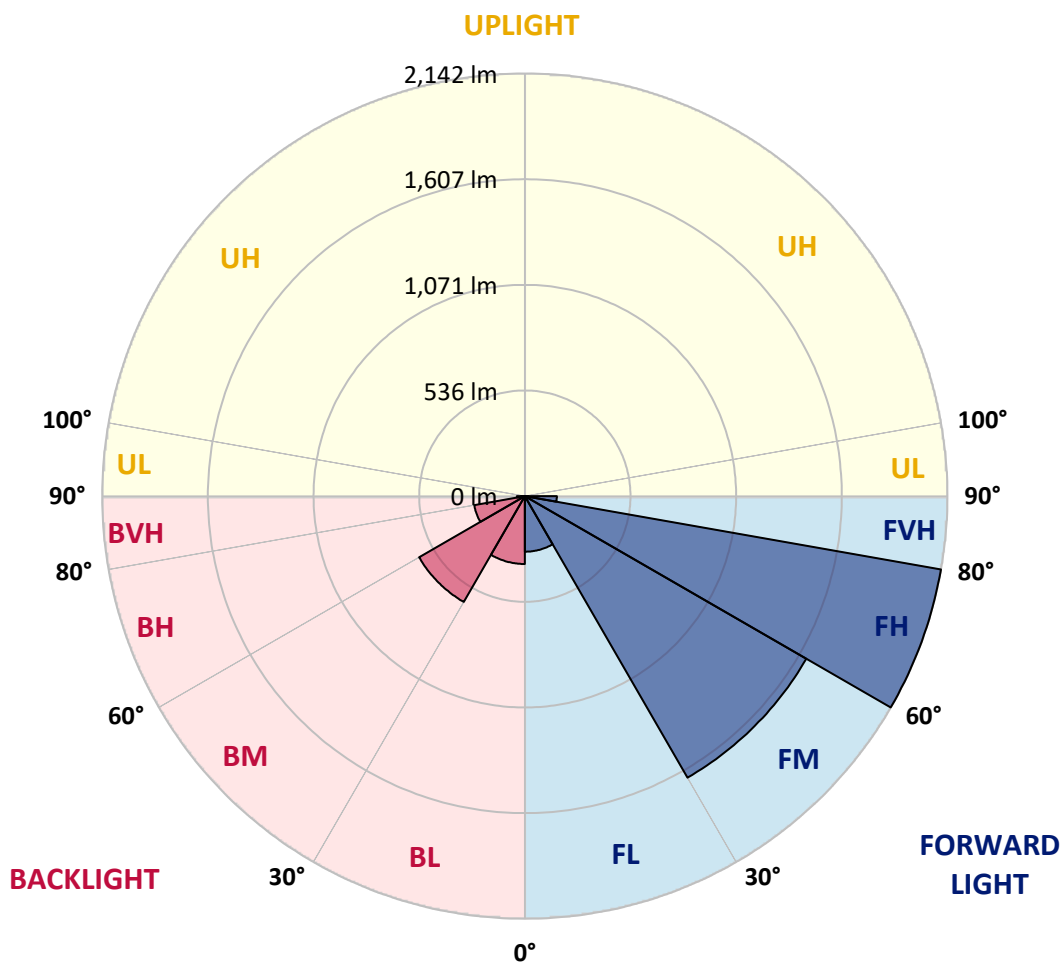
CATALOG NUMBER: CCW-SA-1D-735-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 281.8 | 5.1 | | | |
| FM (30°-60°) | 1647.7 | 30.0 | | | |
| FH (60°-80°) | 2142.1 | 39.0 | | | G2/5000 |
| FVH (80°-90°) | 162.2 | 3.0 | | | G2/225 |
| BL (0°-30°) | 343.9 | 6.3 | B1/500 | | |
| BM (30°-60°) | 619.1 | 11.3 | B1/1000 | | |
| BH (60°-80°) | 260.5 | 4.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 39.9 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 753.1 | 753.1 | 753.1 | 753.1 | 753.1 | 753.1 | 753.1 | 753.1 | 753.1 | 753.1 | 753.1 |
| 2.5° | 682.3 | 676.2 | 682.3 | 686.3 | 686.3 | 686.3 | 692.4 | 710.6 | 722.8 | 730.9 | 745.0 |
| 5° | 611.4 | 613.4 | 617.5 | 627.6 | 633.7 | 637.7 | 647.9 | 670.1 | 688.3 | 714.7 | 745.0 |
| 7.5° | 548.7 | 552.7 | 558.8 | 568.9 | 583.1 | 581.0 | 603.3 | 633.7 | 668.1 | 702.5 | 747.1 |
| 10° | 516.3 | 524.4 | 526.4 | 528.4 | 542.6 | 542.6 | 572.9 | 607.4 | 649.9 | 694.4 | 747.1 |
| 12.5° | 522.3 | 522.3 | 516.3 | 514.2 | 522.3 | 520.3 | 546.6 | 587.1 | 633.7 | 696.4 | 755.2 |
| 15° | 540.6 | 540.6 | 528.4 | 516.3 | 528.4 | 524.4 | 546.6 | 579.0 | 633.7 | 698.5 | 771.4 |
| 17.5° | 564.9 | 566.9 | 552.7 | 532.5 | 536.5 | 538.5 | 554.7 | 585.1 | 633.7 | 702.5 | 793.6 |
| 20° | 613.4 | 603.3 | 581.0 | 548.7 | 562.8 | 556.8 | 581.0 | 607.4 | 645.8 | 718.7 | 826.0 |
| 22.5° | 656.0 | 656.0 | 613.4 | 585.1 | 587.1 | 587.1 | 609.4 | 631.7 | 664.1 | 741.0 | 850.3 |
| 25° | 724.8 | 720.7 | 668.1 | 625.6 | 629.6 | 631.7 | 643.8 | 670.1 | 694.4 | 753.1 | 880.7 |
| 27.5° | 811.8 | 801.7 | 749.1 | 700.5 | 684.3 | 690.4 | 696.4 | 716.7 | 722.8 | 773.4 | 917.1 |
| 30° | 905.0 | 890.8 | 846.3 | 769.3 | 761.2 | 763.3 | 753.1 | 765.3 | 757.2 | 805.8 | 953.6 |
| 32.5° | 963.7 | 963.7 | 921.2 | 864.5 | 842.2 | 842.2 | 807.8 | 815.9 | 815.9 | 836.1 | 1018.4 |
| 35° | 1014.3 | 1010.3 | 981.9 | 939.4 | 925.2 | 917.1 | 882.7 | 894.9 | 874.6 | 894.9 | 1109.5 |
| 37.5° | 1091.2 | 1079.1 | 1066.9 | 1038.6 | 1010.3 | 1004.2 | 986.0 | 994.1 | 965.7 | 955.6 | 1212.7 |
| 40° | 1180.3 | 1174.2 | 1162.1 | 1149.9 | 1121.6 | 1119.6 | 1099.3 | 1107.4 | 1077.1 | 1038.6 | 1316.0 |
| 42.5° | 1311.9 | 1293.7 | 1255.2 | 1245.1 | 1251.2 | 1259.3 | 1251.2 | 1237.0 | 1182.3 | 1133.8 | 1427.3 |
| 45° | 1443.5 | 1415.2 | 1342.3 | 1326.1 | 1372.6 | 1366.6 | 1401.0 | 1394.9 | 1305.8 | 1228.9 | 1544.7 |
| 47.5° | 1528.5 | 1504.2 | 1445.5 | 1435.4 | 1455.7 | 1463.8 | 1567.0 | 1548.8 | 1407.1 | 1316.0 | 1658.1 |
| 50° | 1589.3 | 1591.3 | 1514.4 | 1540.7 | 1567.0 | 1567.0 | 1696.6 | 1694.6 | 1530.6 | 1423.3 | 1805.9 |
| 52.5° | 1678.4 | 1650.0 | 1617.6 | 1641.9 | 1678.4 | 1698.6 | 1858.5 | 1814.0 | 1607.5 | 1514.4 | 1971.9 |
| 55° | 1724.9 | 1712.8 | 1684.4 | 1726.9 | 1803.9 | 1814.0 | 1984.1 | 1949.6 | 1694.6 | 1621.7 | 2142.0 |
| 57.5° | 1743.1 | 1753.3 | 1799.8 | 1818.0 | 1925.4 | 1951.7 | 2097.4 | 2048.8 | 1775.5 | 1755.3 | 2273.6 |
| 60° | 1824.1 | 1810.0 | 1872.7 | 1945.6 | 2048.8 | 2063.0 | 2239.2 | 2133.9 | 1854.5 | 1842.3 | 2316.1 |
| 62.5° | 1988.1 | 1951.7 | 1986.1 | 2073.1 | 2216.9 | 2235.1 | 2389.0 | 2247.3 | 1888.9 | 1901.1 | 2314.1 |
| 65° | 2227.0 | 2200.7 | 2150.1 | 2218.9 | 2421.4 | 2447.7 | 2565.1 | 2344.4 | 1878.8 | 1880.8 | 2150.1 |
| 67.5° | 2508.4 | 2465.9 | 2413.3 | 2455.8 | 2702.8 | 2763.5 | 2779.7 | 2386.9 | 1807.9 | 1767.4 | 1749.2 |
| 70° | 2755.4 | 2727.1 | 2692.7 | 2765.5 | 3109.7 | 3132.0 | 3047.0 | 2360.6 | 1611.5 | 1419.2 | 1166.1 |
| 72.5° | 2986.2 | 2972.0 | 2992.3 | 3265.6 | 3660.4 | 3674.6 | 3298.0 | 2194.6 | 1273.4 | 860.4 | 542.6 |
| 75° | 3004.4 | 2990.3 | 3130.0 | 3678.6 | 4350.8 | 4377.1 | 3453.9 | 1720.9 | 672.2 | 350.2 | 228.8 |
| 77.5° | 2034.7 | 2077.2 | 2338.4 | 3221.1 | 3996.5 | 4002.5 | 2824.3 | 799.7 | 277.4 | 206.5 | 159.9 |
| 80° | 500.1 | 554.7 | 880.7 | 1666.2 | 2694.7 | 2761.5 | 1546.8 | 269.3 | 182.2 | 157.9 | 119.4 |
| 82.5° | 182.2 | 198.4 | 358.3 | 753.1 | 1514.4 | 1540.7 | 540.6 | 145.8 | 131.6 | 121.5 | 87.1 |
| 85° | 87.1 | 89.1 | 170.1 | 370.5 | 765.3 | 757.2 | 194.4 | 87.1 | 95.2 | 83.0 | 52.6 |
| 87.5° | 36.4 | 36.4 | 74.9 | 172.1 | 338.1 | 328.0 | 62.8 | 40.5 | 54.7 | 48.6 | 26.3 |
| 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° | 753.1 | 753.1 | 753.1 | 753.1 | 753.1 | 753.1 | 753.1 | 753.1 | 753.1 | 753.1 | 753.1 |
| 2.5° | 755.2 | 759.2 | 775.4 | 787.6 | 799.7 | 809.8 | 826.0 | 826.0 | 836.1 | 836.1 | 836.1 |
| 5° | 753.1 | 775.4 | 801.7 | 830.1 | 848.3 | 866.5 | 882.7 | 884.7 | 890.8 | 898.9 | 900.9 |
| 7.5° | 761.2 | 783.5 | 826.0 | 866.5 | 888.8 | 896.9 | 917.1 | 911.0 | 911.0 | 911.0 | 917.1 |
| 10° | 777.4 | 801.7 | 860.4 | 896.9 | 913.1 | 915.1 | 909.0 | 905.0 | 892.8 | 888.8 | 882.7 |
| 12.5° | 789.6 | 832.1 | 890.8 | 919.1 | 913.1 | 907.0 | 892.8 | 872.6 | 858.4 | 854.4 | 854.4 |
| 15° | 819.9 | 862.5 | 917.1 | 927.2 | 917.1 | 884.7 | 866.5 | 844.2 | 832.1 | 813.9 | 822.0 |
| 17.5° | 846.3 | 894.9 | 943.4 | 931.3 | 911.0 | 860.4 | 834.1 | 801.7 | 785.5 | 765.3 | 765.3 |
| 20° | 880.7 | 925.2 | 967.7 | 935.3 | 890.8 | 836.1 | 793.6 | 753.1 | 730.9 | 710.6 | 714.7 |
| 22.5° | 919.1 | 959.6 | 981.9 | 919.1 | 860.4 | 797.7 | 739.0 | 700.5 | 672.2 | 660.0 | 664.1 |
| 25° | 949.5 | 994.1 | 990.0 | 892.8 | 824.0 | 749.1 | 684.3 | 647.9 | 641.8 | 629.6 | 629.6 |
| 27.5° | 988.0 | 1034.5 | 983.9 | 860.4 | 763.3 | 672.2 | 631.7 | 617.5 | 617.5 | 611.4 | 615.5 |
| 30° | 1038.6 | 1071.0 | 969.8 | 813.9 | 686.3 | 603.3 | 583.1 | 591.2 | 605.3 | 599.3 | 601.3 |
| 32.5° | 1121.6 | 1117.6 | 957.6 | 761.2 | 605.3 | 536.5 | 550.7 | 566.9 | 579.0 | 585.1 | 589.1 |
| 35° | 1202.6 | 1176.3 | 943.4 | 690.4 | 530.4 | 504.1 | 516.3 | 534.5 | 556.8 | 562.8 | 564.9 |
| 37.5° | 1283.6 | 1237.0 | 919.1 | 603.3 | 483.9 | 475.8 | 487.9 | 498.0 | 516.3 | 520.3 | 524.4 |
| 40° | 1368.6 | 1277.5 | 876.6 | 518.3 | 445.4 | 445.4 | 453.5 | 455.5 | 465.6 | 471.7 | 475.8 |
| 42.5° | 1443.5 | 1316.0 | 799.7 | 439.3 | 404.9 | 419.1 | 421.1 | 417.1 | 409.0 | 413.0 | 415.0 |
| 45° | 1534.6 | 1358.5 | 710.6 | 382.6 | 374.5 | 392.8 | 396.8 | 380.6 | 366.4 | 358.3 | 354.3 |
| 47.5° | 1623.7 | 1403.0 | 633.7 | 336.1 | 346.2 | 374.5 | 374.5 | 356.3 | 332.0 | 311.8 | 303.7 |
| 50° | 1704.7 | 1447.6 | 570.9 | 307.7 | 317.9 | 360.4 | 364.4 | 330.0 | 303.7 | 279.4 | 275.3 |
| 52.5° | 1840.3 | 1522.5 | 506.1 | 285.5 | 301.7 | 350.2 | 348.2 | 317.9 | 283.4 | 257.1 | 255.1 |
| 55° | 1959.8 | 1597.4 | 421.1 | 263.2 | 285.5 | 336.1 | 342.1 | 305.7 | 259.1 | 234.8 | 230.8 |
| 57.5° | 2046.8 | 1615.6 | 336.1 | 240.9 | 269.3 | 319.9 | 328.0 | 281.4 | 242.9 | 222.7 | 220.7 |
| 60° | 2063.0 | 1544.7 | 273.3 | 222.7 | 247.0 | 297.6 | 303.7 | 267.2 | 230.8 | 214.6 | 210.6 |
| 62.5° | 1988.1 | 1409.1 | 232.8 | 206.5 | 228.8 | 275.3 | 287.5 | 251.0 | 218.7 | 204.5 | 202.5 |
| 65° | 1818.0 | 1210.7 | 204.5 | 192.3 | 216.6 | 259.1 | 273.3 | 238.9 | 208.5 | 196.4 | 194.4 |
| 67.5° | 1439.5 | 929.3 | 182.2 | 182.2 | 200.4 | 242.9 | 263.2 | 230.8 | 198.4 | 190.3 | 188.3 |
| 70° | 941.4 | 558.8 | 166.0 | 168.0 | 188.3 | 228.8 | 251.0 | 220.7 | 186.3 | 184.2 | 180.2 |
| 72.5° | 404.9 | 257.1 | 147.8 | 153.9 | 170.1 | 204.5 | 232.8 | 206.5 | 172.1 | 166.0 | 159.9 |
| 75° | 186.3 | 155.9 | 133.6 | 137.7 | 151.8 | 180.2 | 210.6 | 190.3 | 159.9 | 149.8 | 143.7 |
| 77.5° | 131.6 | 113.4 | 111.4 | 119.4 | 129.6 | 155.9 | 186.3 | 178.2 | 147.8 | 139.7 | 135.6 |
| 80° | 97.2 | 87.1 | 93.1 | 101.2 | 107.3 | 143.7 | 176.1 | 164.0 | 135.6 | 123.5 | 117.4 |
| 82.5° | 68.8 | 64.8 | 72.9 | 81.0 | 87.1 | 125.5 | 162.0 | 143.7 | 113.4 | 103.3 | 93.1 |
| 85° | 40.5 | 42.5 | 50.6 | 54.7 | 60.7 | 93.1 | 135.6 | 115.4 | 87.1 | 66.8 | 64.8 |
| 87.5° | 18.2 | 18.2 | 24.3 | 26.3 | 30.4 | 54.7 | 91.1 | 72.9 | 54.7 | 42.5 | 40.5 |
| 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)