

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: P673590

Luminaire Tested: **CCP-SA-2B-827-U-T4W-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673590
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2B-827-U-T4W-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T4W distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

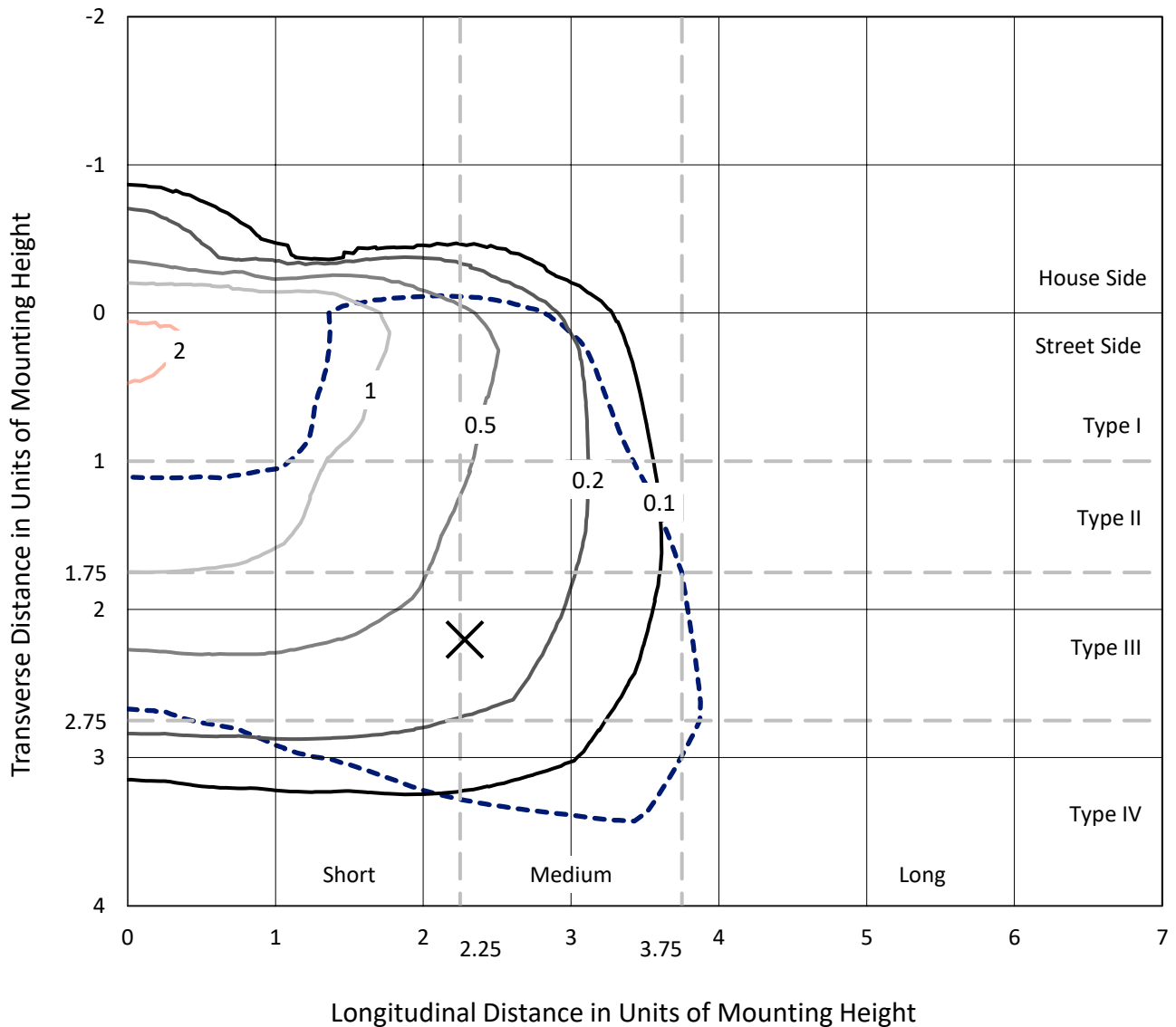
Lumens per Lamp: N/A
Luminaire Lumens: 3662.8 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 46
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

REPORT NUMBER: P673590
 CATALOG NUMBER: CCP-SA-2B-827-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

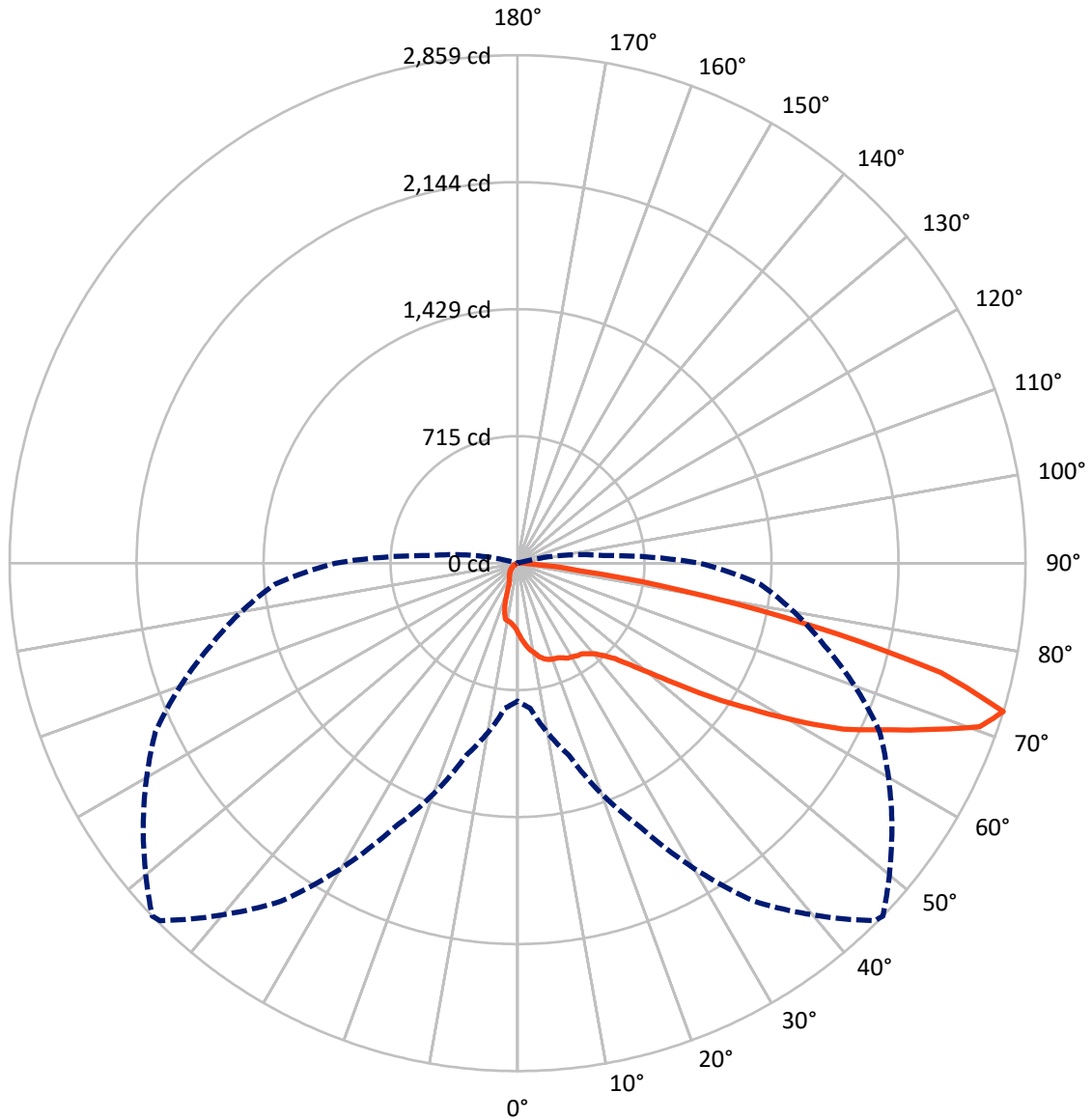
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Medium - N/A

REPORT NUMBER: P673590
CATALOG NUMBER: CCP-SA-2B-827-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 394.3 | 0.0 | 394.3 |
| | % Fixture | 10.8 | 0.0 | 10.8 |
| Street Side | Lumens | 3268.4 | 0.0 | 3268.4 |
| | % Fixture | 89.2 | 0.0 | 89.2 |
| Total | Lumens | 3662.8 | 0.0 | 3662.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 39.2 | 1.1 |
| 10°-20° | 118.3 | 3.2 |
| 20°-30° | 185.2 | 5.1 |
| 30°-40° | 259.3 | 7.1 |
| 40°-50° | 427.7 | 11.7 |
| 50°-60° | 768.7 | 21.0 |
| 60°-70° | 1114.1 | 30.4 |
| 70°-80° | 695.3 | 19.0 |
| 80°-90° | 55.1 | 1.5 |
| 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° | 3662.8 | 100.0 |
| 0°-180° | 3662.8 | 100.0 |



REPORT NUMBER: P673590

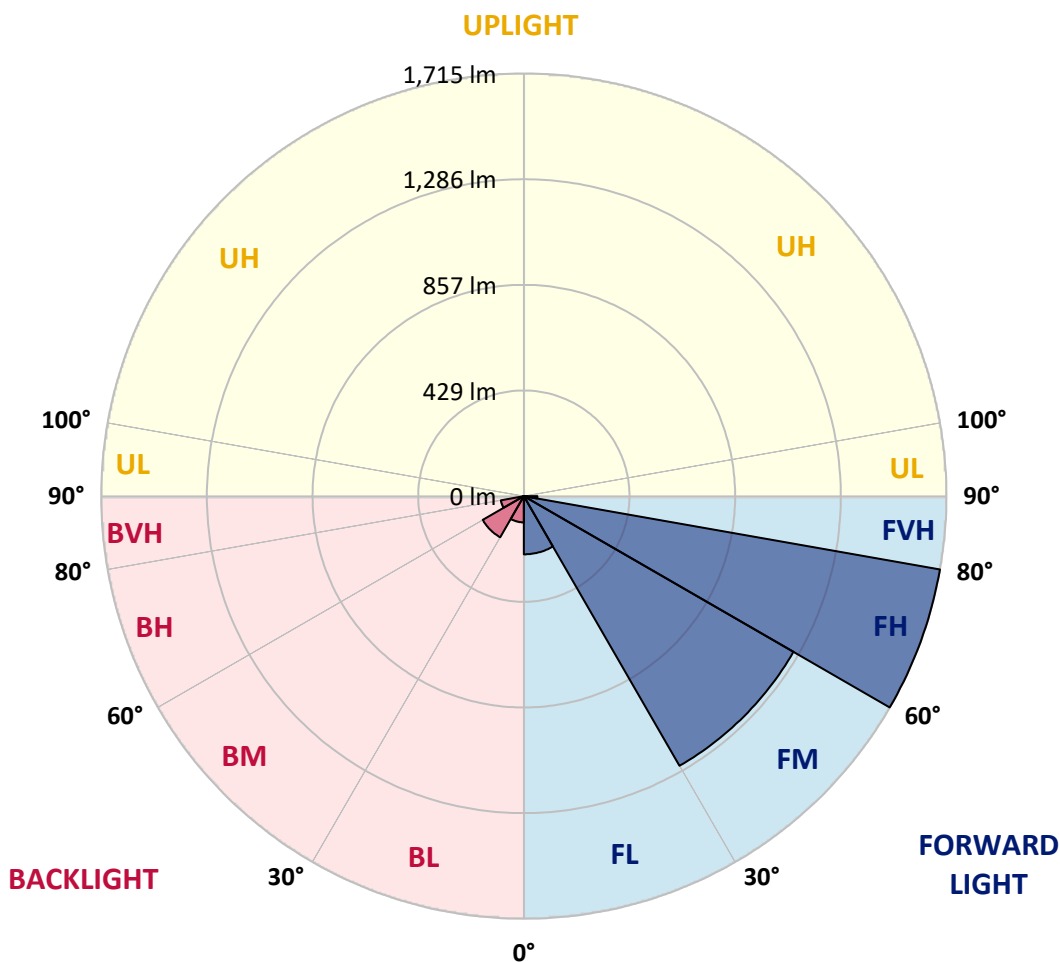
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 236.1 | 6.4 | | | |
| FM (30°-60°) | 1263.0 | 34.5 | | | |
| FH (60°-80°) | 1714.5 | 46.8 | | | G1/1800 |
| FVH (80°-90°) | 54.8 | 1.5 | | | G1/100 |
| BL (0°-30°) | 106.6 | 2.9 | B0/110 | | |
| BM (30°-60°) | 192.6 | 5.3 | B0/220 | | |
| BH (60°-80°) | 94.8 | 2.6 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.3 | 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 IV Medium





REPORT NUMBER: P673590

CATALOG NUMBER: CCP-SA-2B-827-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 391.5 | 391.5 | 391.5 | 391.5 | 391.5 | 391.5 | 391.5 | 391.5 | 391.5 | 391.5 | 391.5 |
| 2.5° | 438.2 | 436.3 | 439.1 | 438.2 | 427.0 | 428.8 | 427.9 | 420.4 | 407.3 | 399.9 | 395.2 |
| 5° | 488.6 | 493.3 | 489.6 | 481.2 | 474.6 | 461.5 | 459.7 | 447.5 | 427.0 | 413.9 | 399.9 |
| 7.5° | 540.9 | 540.9 | 533.5 | 520.4 | 506.4 | 492.4 | 490.5 | 469.9 | 452.2 | 429.8 | 410.1 |
| 10° | 580.2 | 575.5 | 569.9 | 555.9 | 540.0 | 521.3 | 512.0 | 497.0 | 477.4 | 450.3 | 425.1 |
| 12.5° | 614.8 | 607.3 | 597.9 | 577.4 | 558.7 | 538.1 | 540.0 | 515.7 | 502.6 | 478.3 | 441.0 |
| 15° | 634.4 | 627.8 | 619.4 | 600.7 | 571.8 | 562.4 | 558.7 | 543.7 | 520.4 | 496.1 | 460.6 |
| 17.5° | 639.0 | 634.4 | 623.2 | 598.9 | 583.0 | 571.8 | 570.8 | 553.1 | 542.8 | 522.3 | 483.0 |
| 20° | 629.7 | 621.3 | 612.9 | 597.0 | 582.1 | 578.3 | 575.5 | 575.5 | 562.4 | 535.3 | 497.0 |
| 22.5° | 613.8 | 604.5 | 599.8 | 590.5 | 578.3 | 577.4 | 579.3 | 577.4 | 567.1 | 549.4 | 512.0 |
| 25° | 601.7 | 597.0 | 589.5 | 586.7 | 579.3 | 593.3 | 590.5 | 587.7 | 584.9 | 564.3 | 535.3 |
| 27.5° | 605.4 | 604.5 | 598.9 | 587.7 | 582.1 | 597.0 | 605.4 | 606.3 | 605.4 | 584.9 | 556.8 |
| 30° | 607.3 | 602.6 | 597.0 | 594.2 | 596.1 | 611.0 | 611.0 | 631.6 | 623.2 | 602.6 | 578.3 |
| 32.5° | 628.8 | 626.0 | 607.3 | 600.7 | 601.7 | 619.4 | 620.4 | 640.9 | 638.1 | 624.1 | 597.0 |
| 35° | 674.5 | 655.9 | 628.8 | 610.1 | 610.1 | 633.4 | 626.0 | 655.9 | 663.3 | 640.9 | 610.1 |
| 37.5° | 742.7 | 728.7 | 680.2 | 638.1 | 622.2 | 639.0 | 646.5 | 663.3 | 685.8 | 666.1 | 636.2 |
| 40° | 878.2 | 875.4 | 806.3 | 715.7 | 653.1 | 668.0 | 670.8 | 697.0 | 711.9 | 684.8 | 676.4 |
| 42.5° | 1076.3 | 1062.3 | 997.8 | 854.9 | 709.1 | 702.6 | 712.9 | 729.7 | 765.2 | 742.7 | 722.2 |
| 45° | 1269.7 | 1263.1 | 1198.7 | 1038.9 | 811.0 | 771.7 | 766.1 | 796.0 | 848.3 | 824.0 | 808.1 |
| 47.5° | 1409.8 | 1396.7 | 1360.3 | 1225.8 | 960.4 | 853.0 | 856.7 | 886.6 | 953.0 | 934.3 | 938.9 |
| 50° | 1517.3 | 1510.7 | 1472.4 | 1398.6 | 1149.2 | 981.0 | 973.5 | 1003.4 | 1093.1 | 1105.2 | 1118.3 |
| 52.5° | 1635.0 | 1647.1 | 1595.7 | 1533.1 | 1372.5 | 1152.9 | 1136.1 | 1146.4 | 1262.2 | 1290.2 | 1326.7 |
| 55° | 1748.0 | 1767.6 | 1716.3 | 1707.9 | 1606.0 | 1343.5 | 1340.7 | 1316.4 | 1465.9 | 1469.6 | 1489.2 |
| 57.5° | 1821.8 | 1815.3 | 1811.6 | 1857.3 | 1839.6 | 1562.1 | 1548.1 | 1523.8 | 1659.3 | 1635.0 | 1693.8 |
| 60° | 1827.4 | 1846.1 | 1908.7 | 2021.8 | 2053.5 | 1819.0 | 1798.5 | 1732.1 | 1826.5 | 1768.6 | 1880.7 |
| 62.5° | 1869.5 | 1884.4 | 2000.3 | 2156.3 | 2197.4 | 2045.1 | 2059.1 | 1891.0 | 1969.5 | 1923.7 | 2088.1 |
| 65° | 1763.0 | 1809.7 | 2042.3 | 2260.9 | 2386.1 | 2274.0 | 2260.0 | 2095.6 | 2116.1 | 2073.2 | 2292.7 |
| 67.5° | 1666.7 | 1684.5 | 1927.4 | 2292.7 | 2535.6 | 2503.9 | 2498.3 | 2276.8 | 2267.5 | 2188.1 | 2350.6 |
| 70° | 1354.7 | 1376.2 | 1616.3 | 2130.1 | 2586.1 | 2772.0 | 2758.9 | 2531.0 | 2370.3 | 2125.5 | 2053.5 |
| 72.5° | 776.4 | 819.4 | 1120.2 | 1640.6 | 2323.5 | 2846.7 | 2858.9 | 2572.1 | 2248.8 | 1787.3 | 1371.5 |
| 75° | 254.1 | 266.3 | 465.3 | 929.6 | 1737.8 | 2483.3 | 2461.8 | 2210.5 | 1814.4 | 1180.0 | 619.4 |
| 77.5° | 86.0 | 87.8 | 137.3 | 336.3 | 963.2 | 1678.0 | 1690.1 | 1579.9 | 1114.6 | 490.5 | 171.0 |
| 80° | 43.9 | 46.7 | 67.3 | 126.1 | 396.1 | 913.7 | 933.3 | 900.6 | 467.1 | 144.8 | 41.1 |
| 82.5° | 20.6 | 21.5 | 39.2 | 70.1 | 181.2 | 358.8 | 358.8 | 394.3 | 165.4 | 81.3 | 16.8 |
| 85° | 7.5 | 7.5 | 20.6 | 40.2 | 76.6 | 119.6 | 120.5 | 121.5 | 86.9 | 60.7 | 7.5 |
| 87.5° | 2.8 | 2.8 | 10.3 | 16.8 | 28.0 | 36.4 | 36.4 | 29.0 | 43.9 | 40.2 | 2.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P673590

CATALOG NUMBER: CCP-SA-2B-827-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 391.5 | 391.5 | 391.5 | 391.5 | 391.5 | 391.5 | 391.5 | 391.5 | 391.5 | 391.5 | 391.5 |
| 2.5° | 393.3 | 387.7 | 383.1 | 376.5 | 368.1 | 363.4 | 364.4 | 358.8 | 358.8 | 356.0 | 355.0 |
| 5° | 393.3 | 387.7 | 375.6 | 364.4 | 356.9 | 347.6 | 342.9 | 339.1 | 339.1 | 337.3 | 338.2 |
| 7.5° | 396.1 | 387.7 | 370.9 | 356.0 | 343.8 | 334.5 | 327.0 | 326.1 | 324.2 | 319.5 | 323.3 |
| 10° | 412.9 | 400.8 | 372.8 | 352.2 | 338.2 | 327.9 | 314.9 | 311.1 | 305.5 | 297.1 | 298.0 |
| 12.5° | 427.0 | 411.1 | 385.9 | 357.8 | 340.1 | 323.3 | 293.4 | 260.7 | 246.6 | 231.7 | 232.6 |
| 15° | 447.5 | 425.1 | 390.5 | 365.3 | 340.1 | 285.9 | 231.7 | 189.7 | 167.2 | 156.0 | 156.0 |
| 17.5° | 458.7 | 440.0 | 403.6 | 370.0 | 313.0 | 232.6 | 164.4 | 128.0 | 124.3 | 126.1 | 126.1 |
| 20° | 482.1 | 456.9 | 418.6 | 373.7 | 268.1 | 165.4 | 120.5 | 116.8 | 118.7 | 122.4 | 121.5 |
| 22.5° | 497.0 | 471.8 | 429.8 | 356.9 | 207.4 | 118.7 | 113.0 | 111.2 | 113.0 | 117.7 | 117.7 |
| 25° | 509.2 | 493.3 | 447.5 | 315.8 | 146.7 | 107.4 | 105.6 | 107.4 | 109.3 | 111.2 | 114.0 |
| 27.5° | 539.1 | 512.0 | 459.7 | 262.5 | 105.6 | 100.0 | 101.8 | 102.8 | 102.8 | 105.6 | 106.5 |
| 30° | 558.7 | 537.2 | 469.0 | 202.7 | 93.4 | 92.5 | 94.4 | 95.3 | 96.2 | 99.0 | 100.0 |
| 32.5° | 577.4 | 569.9 | 456.9 | 137.3 | 87.8 | 86.0 | 85.0 | 86.0 | 89.7 | 92.5 | 91.6 |
| 35° | 604.5 | 599.8 | 439.1 | 95.3 | 82.2 | 78.5 | 76.6 | 77.5 | 80.3 | 83.2 | 82.2 |
| 37.5° | 637.2 | 641.8 | 396.1 | 83.2 | 76.6 | 71.9 | 68.2 | 68.2 | 69.1 | 71.9 | 72.9 |
| 40° | 675.5 | 687.6 | 345.7 | 77.5 | 72.9 | 67.3 | 63.5 | 58.9 | 57.9 | 57.0 | 57.9 |
| 42.5° | 745.6 | 759.6 | 288.7 | 73.8 | 67.3 | 60.7 | 55.1 | 49.5 | 44.8 | 42.0 | 42.0 |
| 45° | 843.7 | 832.4 | 213.9 | 70.1 | 64.5 | 55.1 | 46.7 | 40.2 | 33.6 | 30.8 | 30.8 |
| 47.5° | 979.1 | 940.8 | 146.7 | 66.3 | 59.8 | 48.6 | 39.2 | 30.8 | 25.2 | 22.4 | 22.4 |
| 50° | 1166.9 | 1040.8 | 95.3 | 62.6 | 57.0 | 42.0 | 31.8 | 22.4 | 18.7 | 17.8 | 18.7 |
| 52.5° | 1344.4 | 1142.6 | 75.7 | 57.9 | 51.4 | 36.4 | 24.3 | 18.7 | 16.8 | 15.9 | 15.9 |
| 55° | 1507.9 | 1194.0 | 67.3 | 53.3 | 46.7 | 29.9 | 20.6 | 15.9 | 14.9 | 14.0 | 14.0 |
| 57.5° | 1646.2 | 1211.8 | 57.9 | 46.7 | 37.4 | 23.4 | 16.8 | 14.0 | 12.1 | 11.2 | 11.2 |
| 60° | 1765.8 | 1216.4 | 44.8 | 37.4 | 27.1 | 17.8 | 14.0 | 12.1 | 10.3 | 8.4 | 8.4 |
| 62.5° | 1861.1 | 1183.7 | 31.8 | 26.2 | 18.7 | 14.0 | 12.1 | 8.4 | 5.6 | 3.7 | 2.8 |
| 65° | 1936.8 | 1118.3 | 21.5 | 17.8 | 12.1 | 10.3 | 7.5 | 3.7 | 0.9 | 0.0 | 0.0 |
| 67.5° | 1848.0 | 969.8 | 16.8 | 13.1 | 8.4 | 6.5 | 3.7 | 0.9 | 0.0 | 0.0 | 0.0 |
| 70° | 1507.0 | 752.1 | 12.1 | 8.4 | 5.6 | 1.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1025.8 | 484.9 | 9.3 | 5.6 | 2.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 460.6 | 173.8 | 6.5 | 3.7 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 112.1 | 41.1 | 4.7 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 29.9 | 10.3 | 2.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 11.2 | 3.7 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 4.7 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)