

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: P673324

Luminaire Tested: **CCP-SA-2B-835-U-T3-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673324
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2B-835-U-T3-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T3 distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

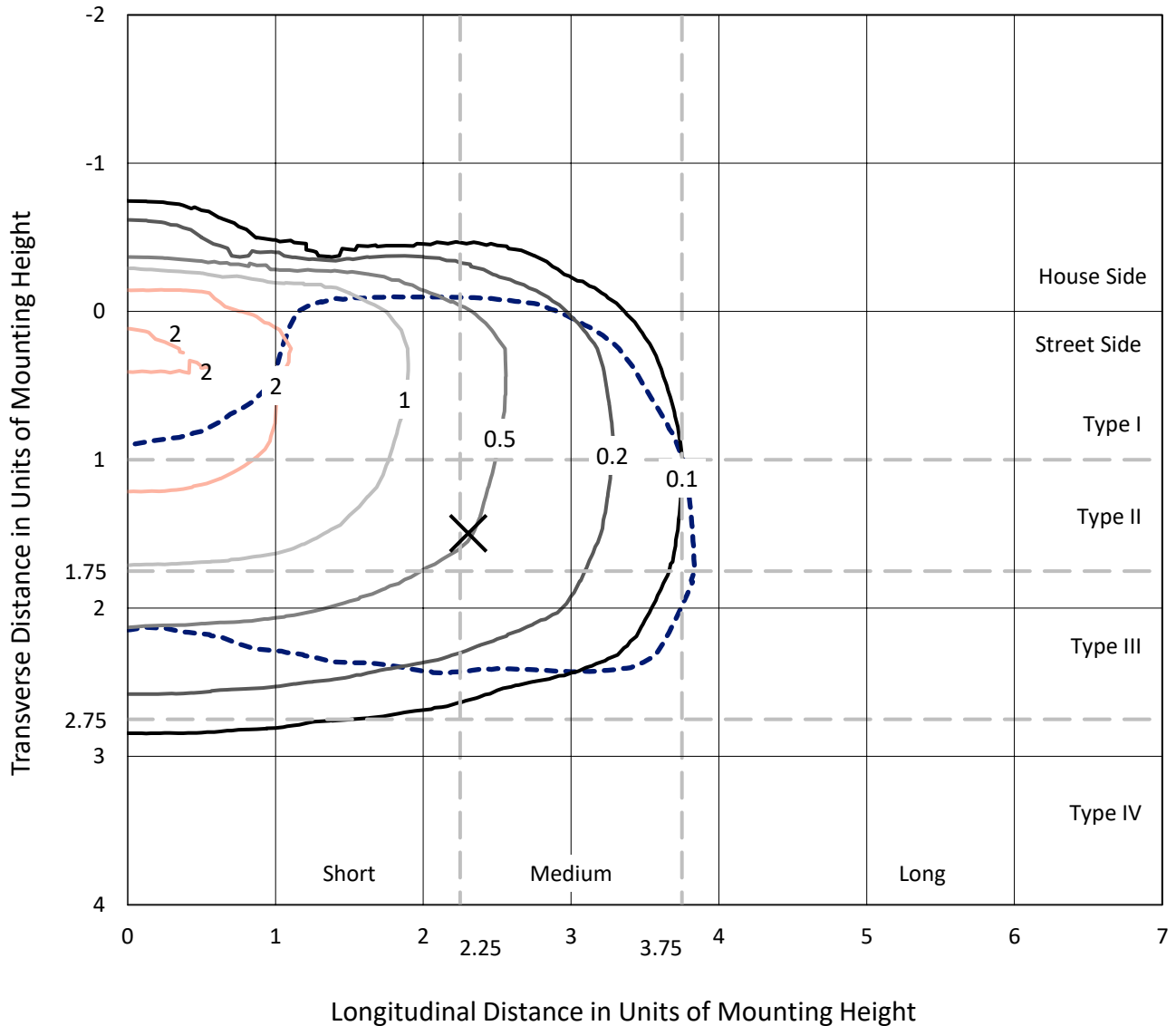
Lumens per Lamp: N/A
Luminaire Lumens: 4099.6 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

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: P673324
 CATALOG NUMBER: CCP-SA-2B-835-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

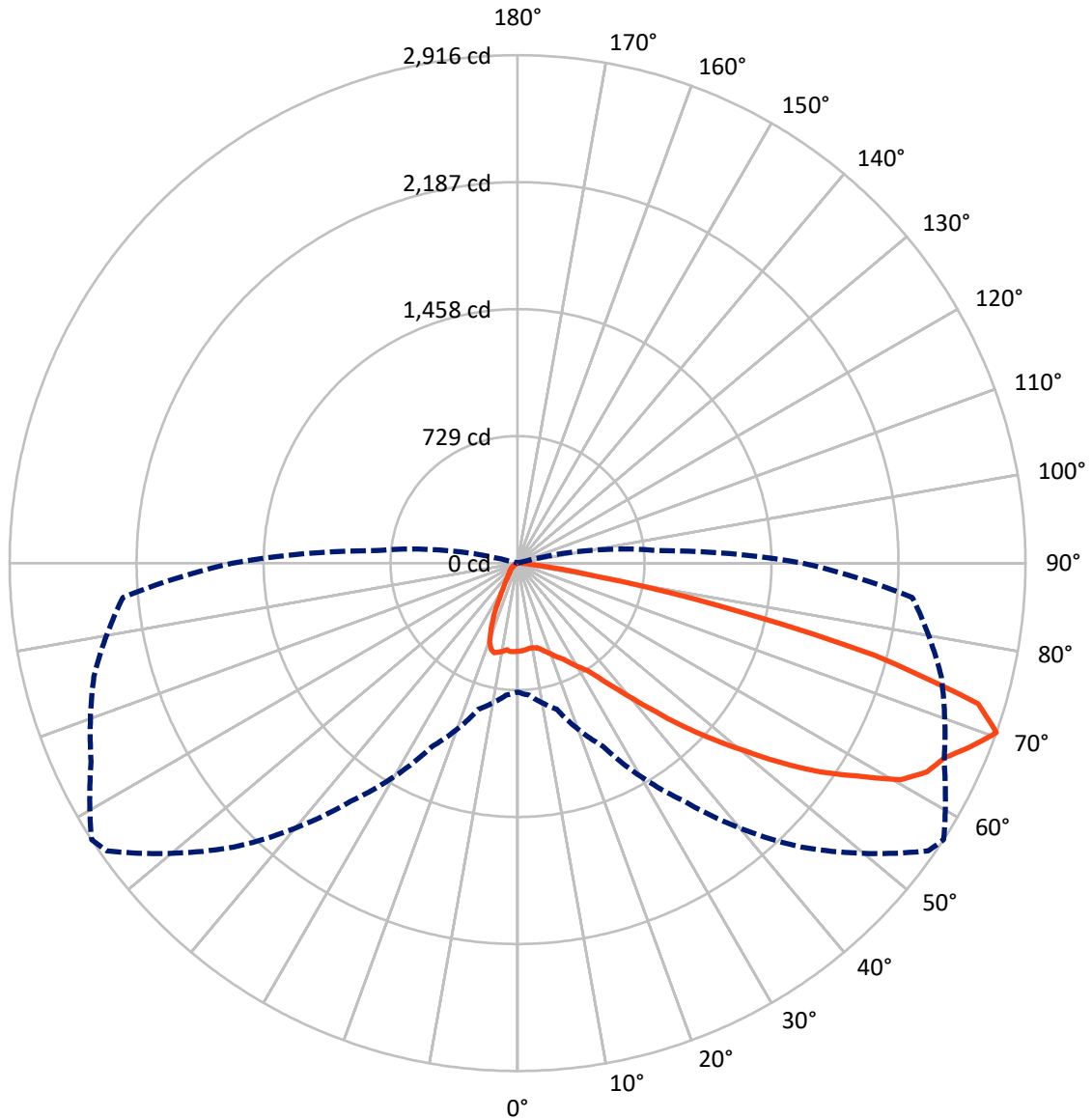
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P673324
CATALOG NUMBER: CCP-SA-2B-835-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P673324

CATALOG NUMBER: CCP-SA-2B-835-U-T3-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 483.2 | 0.0 | 483.2 |
| | % Fixture | 11.8 | 0.0 | 11.8 |
| Street Side | Lumens | 3616.4 | 0.0 | 3616.4 |
| | % Fixture | 88.2 | 0.0 | 88.2 |
| Total | Lumens | 4099.6 | 0.0 | 4099.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 47.3 | 1.2 |
| 10°-20° | 132.2 | 3.2 |
| 20°-30° | 222.6 | 5.4 |
| 30°-40° | 381.0 | 9.3 |
| 40°-50° | 639.8 | 15.6 |
| 50°-60° | 982.0 | 24.0 |
| 60°-70° | 1133.8 | 27.7 |
| 70°-80° | 535.6 | 13.1 |
| 80°-90° | 25.4 | 0.6 |
| 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° | 4099.6 | 100.0 |
| 0°-180° | 4099.6 | 100.0 |



REPORT NUMBER: P673324

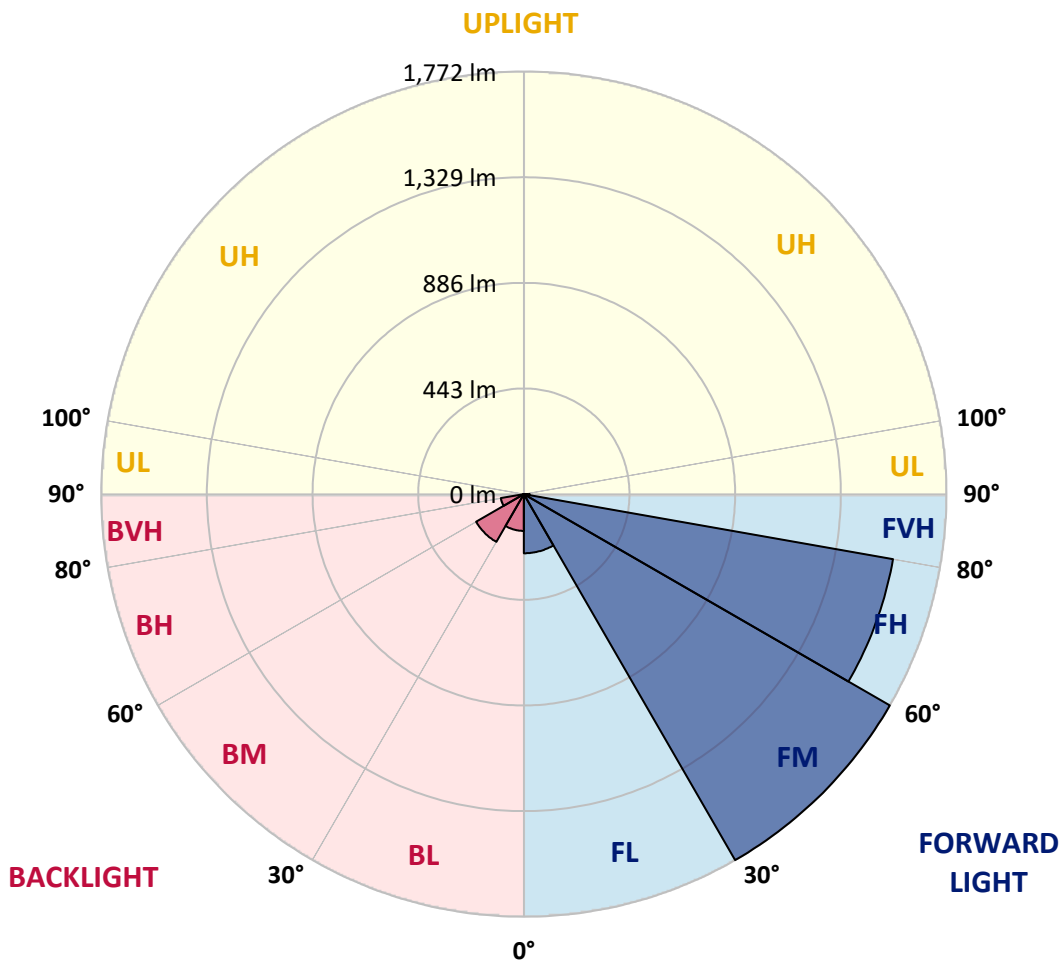
CATALOG NUMBER: CCP-SA-2B-835-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 248.0 | 6.0 | | | |
| FM (30°-60°) | 1771.8 | 43.2 | | | |
| FH (60°-80°) | 1571.6 | 38.3 | | | G1/1800 |
| FVH (80°-90°) | 25.0 | 0.6 | | | G1/100 |
| BL (0°-30°) | 154.1 | 3.8 | B1/500 | | |
| BM (30°-60°) | 231.0 | 5.6 | B1/1000 | | |
| BH (60°-80°) | 97.7 | 2.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.5 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type III Medium





REPORT NUMBER: P673324
 CATALOG NUMBER: CCP-SA-2B-835-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 505.8 | 505.8 | 505.8 | 505.8 | 505.8 | 505.8 | 505.8 | 505.8 | 505.8 | 505.8 | 505.8 |
| 2.5° | 498.5 | 495.4 | 498.5 | 502.7 | 498.5 | 501.7 | 500.6 | 503.7 | 499.6 | 499.6 | 502.7 |
| 5° | 466.0 | 471.3 | 473.4 | 478.6 | 483.9 | 493.3 | 499.6 | 499.6 | 505.8 | 509.0 | 513.2 |
| 7.5° | 454.5 | 446.1 | 454.5 | 458.7 | 464.0 | 479.7 | 489.1 | 493.3 | 501.7 | 513.2 | 519.5 |
| 10° | 437.8 | 444.1 | 444.1 | 457.7 | 465.0 | 474.4 | 491.2 | 494.3 | 513.2 | 524.7 | 531.0 |
| 12.5° | 436.7 | 436.7 | 442.0 | 451.4 | 466.0 | 483.9 | 504.8 | 498.5 | 518.4 | 539.4 | 549.8 |
| 15° | 439.9 | 447.2 | 447.2 | 459.8 | 471.3 | 496.4 | 514.2 | 515.3 | 543.5 | 564.5 | 573.9 |
| 17.5° | 453.5 | 450.3 | 454.5 | 461.9 | 479.7 | 503.7 | 533.1 | 536.2 | 568.7 | 597.0 | 610.6 |
| 20° | 481.8 | 487.0 | 480.7 | 476.5 | 483.9 | 515.3 | 553.0 | 559.3 | 595.9 | 623.1 | 636.8 |
| 22.5° | 587.5 | 583.3 | 558.2 | 528.9 | 516.3 | 531.0 | 571.8 | 586.5 | 629.4 | 661.9 | 673.4 |
| 25° | 706.9 | 699.6 | 670.3 | 626.3 | 568.7 | 562.4 | 609.5 | 609.5 | 671.3 | 706.9 | 703.8 |
| 27.5° | 820.0 | 817.9 | 783.4 | 737.3 | 655.6 | 610.6 | 639.9 | 651.4 | 718.4 | 747.8 | 734.2 |
| 30° | 935.2 | 937.3 | 905.9 | 850.4 | 764.5 | 688.1 | 682.8 | 692.3 | 754.1 | 800.1 | 771.9 |
| 32.5° | 1069.3 | 1050.4 | 1028.4 | 952.0 | 873.4 | 787.6 | 738.3 | 734.2 | 793.9 | 835.7 | 798.0 |
| 35° | 1188.7 | 1177.2 | 1153.1 | 1084.0 | 993.9 | 891.2 | 822.1 | 811.7 | 844.1 | 899.6 | 858.8 |
| 37.5° | 1293.4 | 1281.9 | 1250.5 | 1204.4 | 1134.2 | 1020.1 | 922.7 | 907.0 | 920.6 | 979.2 | 930.0 |
| 40° | 1383.5 | 1386.6 | 1378.2 | 1333.2 | 1268.3 | 1164.6 | 1052.5 | 1027.4 | 1015.9 | 1068.2 | 1012.7 |
| 42.5° | 1448.4 | 1478.8 | 1480.9 | 1425.4 | 1373.0 | 1316.5 | 1190.8 | 1170.9 | 1143.6 | 1187.6 | 1148.9 |
| 45° | 1584.6 | 1567.8 | 1578.3 | 1558.4 | 1500.8 | 1492.4 | 1350.0 | 1338.4 | 1300.7 | 1315.4 | 1274.6 |
| 47.5° | 1691.4 | 1688.2 | 1708.1 | 1675.7 | 1660.0 | 1661.0 | 1531.1 | 1511.2 | 1457.8 | 1485.1 | 1439.0 |
| 50° | 1753.2 | 1736.4 | 1808.7 | 1833.8 | 1830.7 | 1843.2 | 1714.4 | 1697.7 | 1646.3 | 1686.1 | 1587.7 |
| 52.5° | 1767.8 | 1798.2 | 1866.3 | 1957.4 | 1996.1 | 2022.3 | 1914.5 | 1908.2 | 1852.7 | 1877.8 | 1741.7 |
| 55° | 1804.5 | 1833.8 | 1873.6 | 2023.4 | 2166.9 | 2173.1 | 2111.3 | 2117.6 | 2068.4 | 2062.1 | 1888.3 |
| 57.5° | 1803.4 | 1797.2 | 1907.1 | 2081.0 | 2280.0 | 2370.0 | 2336.5 | 2306.1 | 2252.7 | 2190.9 | 1982.5 |
| 60° | 1737.5 | 1734.3 | 1848.5 | 2088.3 | 2341.8 | 2548.1 | 2561.7 | 2526.1 | 2392.0 | 2300.9 | 2093.5 |
| 62.5° | 1606.6 | 1619.1 | 1734.3 | 2025.5 | 2400.4 | 2612.0 | 2662.2 | 2638.1 | 2471.6 | 2374.2 | 2224.5 |
| 65° | 1456.8 | 1430.6 | 1564.7 | 1868.4 | 2268.4 | 2593.1 | 2702.0 | 2693.6 | 2565.9 | 2453.8 | 2344.9 |
| 67.5° | 1168.8 | 1180.3 | 1282.9 | 1607.6 | 2043.3 | 2524.0 | 2795.2 | 2807.8 | 2641.3 | 2524.0 | 2381.6 |
| 70° | 740.4 | 761.4 | 868.2 | 1161.5 | 1668.3 | 2306.1 | 2879.0 | 2915.7 | 2701.0 | 2517.7 | 2274.7 |
| 72.5° | 215.7 | 224.1 | 369.7 | 579.2 | 1063.0 | 1849.5 | 2745.0 | 2763.8 | 2584.7 | 2285.2 | 1759.5 |
| 75° | 71.2 | 75.4 | 108.9 | 188.5 | 416.8 | 956.2 | 2027.6 | 2116.6 | 2056.9 | 1656.8 | 1006.5 |
| 77.5° | 47.1 | 49.2 | 59.7 | 90.1 | 158.1 | 299.5 | 1087.1 | 1182.4 | 1159.4 | 776.0 | 324.7 |
| 80° | 34.6 | 35.6 | 44.0 | 60.7 | 96.4 | 107.9 | 401.1 | 464.0 | 448.2 | 178.0 | 64.9 |
| 82.5° | 22.0 | 22.0 | 32.5 | 42.9 | 60.7 | 53.4 | 116.2 | 128.8 | 125.7 | 68.1 | 25.1 |
| 85° | 14.7 | 15.7 | 24.1 | 33.5 | 33.5 | 25.1 | 33.5 | 38.7 | 41.9 | 36.7 | 11.5 |
| 87.5° | 4.2 | 5.2 | 13.6 | 23.0 | 13.6 | 12.6 | 11.5 | 12.6 | 14.7 | 19.9 | 6.3 |
| 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: P673324
 CATALOG NUMBER: CCP-SA-2B-835-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 505.8 | 505.8 | 505.8 | 505.8 | 505.8 | 505.8 | 505.8 | 505.8 | 505.8 | 505.8 | 505.8 |
| 2.5° | 505.8 | 510.0 | 509.0 | 511.1 | 507.9 | 504.8 | 507.9 | 507.9 | 507.9 | 504.8 | 502.7 |
| 5° | 510.0 | 507.9 | 510.0 | 505.8 | 510.0 | 505.8 | 503.7 | 497.5 | 496.4 | 496.4 | 500.6 |
| 7.5° | 516.3 | 518.4 | 509.0 | 509.0 | 499.6 | 501.7 | 496.4 | 497.5 | 495.4 | 492.2 | 490.1 |
| 10° | 525.7 | 534.1 | 524.7 | 521.6 | 511.1 | 502.7 | 490.1 | 483.9 | 483.9 | 479.7 | 483.9 |
| 12.5° | 551.9 | 548.8 | 543.5 | 533.1 | 520.5 | 503.7 | 473.4 | 443.0 | 417.9 | 399.0 | 408.4 |
| 15° | 572.9 | 571.8 | 564.5 | 544.6 | 527.8 | 476.5 | 400.1 | 321.5 | 279.6 | 260.8 | 257.6 |
| 17.5° | 605.3 | 602.2 | 589.6 | 563.4 | 507.9 | 394.8 | 274.4 | 208.4 | 167.6 | 158.1 | 155.0 |
| 20° | 635.7 | 634.7 | 607.4 | 573.9 | 457.7 | 288.0 | 179.1 | 137.2 | 125.7 | 126.7 | 124.6 |
| 22.5° | 668.2 | 662.9 | 630.5 | 561.4 | 364.5 | 191.7 | 127.8 | 122.5 | 118.3 | 117.3 | 119.4 |
| 25° | 704.8 | 686.0 | 653.5 | 533.1 | 268.1 | 132.0 | 120.4 | 116.2 | 112.1 | 111.0 | 111.0 |
| 27.5° | 719.5 | 706.9 | 664.0 | 465.0 | 169.7 | 115.2 | 113.1 | 107.9 | 102.6 | 99.5 | 98.4 |
| 30° | 753.0 | 732.1 | 674.5 | 365.5 | 120.4 | 105.8 | 102.6 | 96.4 | 89.0 | 83.8 | 83.8 |
| 32.5° | 786.5 | 761.4 | 675.5 | 255.5 | 100.5 | 95.3 | 90.1 | 81.7 | 72.3 | 67.0 | 68.1 |
| 35° | 828.4 | 793.9 | 664.0 | 165.5 | 90.1 | 83.8 | 73.3 | 63.9 | 55.5 | 51.3 | 51.3 |
| 37.5° | 899.6 | 867.2 | 616.9 | 108.9 | 81.7 | 71.2 | 60.7 | 50.3 | 42.9 | 39.8 | 39.8 |
| 40° | 989.7 | 947.8 | 551.9 | 85.9 | 72.3 | 60.7 | 48.2 | 38.7 | 34.6 | 31.4 | 31.4 |
| 42.5° | 1097.6 | 1045.2 | 455.6 | 76.5 | 63.9 | 50.3 | 37.7 | 30.4 | 26.2 | 26.2 | 25.1 |
| 45° | 1205.4 | 1119.6 | 357.1 | 70.2 | 56.6 | 41.9 | 29.3 | 24.1 | 22.0 | 20.9 | 20.9 |
| 47.5° | 1359.4 | 1209.6 | 255.5 | 63.9 | 49.2 | 32.5 | 24.1 | 19.9 | 17.8 | 16.8 | 17.8 |
| 50° | 1507.1 | 1294.5 | 181.2 | 57.6 | 40.8 | 26.2 | 19.9 | 17.8 | 15.7 | 14.7 | 14.7 |
| 52.5° | 1636.9 | 1353.1 | 126.7 | 50.3 | 34.6 | 22.0 | 17.8 | 15.7 | 14.7 | 13.6 | 13.6 |
| 55° | 1708.1 | 1333.2 | 86.9 | 42.9 | 28.3 | 18.9 | 15.7 | 13.6 | 12.6 | 11.5 | 11.5 |
| 57.5° | 1781.4 | 1277.7 | 66.0 | 35.6 | 23.0 | 17.8 | 14.7 | 12.6 | 11.5 | 10.5 | 10.5 |
| 60° | 1843.2 | 1236.9 | 51.3 | 28.3 | 18.9 | 14.7 | 12.6 | 10.5 | 9.4 | 8.4 | 7.3 |
| 62.5° | 1846.4 | 1155.2 | 37.7 | 20.9 | 14.7 | 12.6 | 10.5 | 8.4 | 5.2 | 4.2 | 3.1 |
| 65° | 1858.9 | 1069.3 | 27.2 | 15.7 | 10.5 | 9.4 | 7.3 | 4.2 | 2.1 | 0.0 | 0.0 |
| 67.5° | 1815.0 | 967.7 | 22.0 | 11.5 | 7.3 | 5.2 | 3.1 | 1.0 | 0.0 | 0.0 | 0.0 |
| 70° | 1635.9 | 816.9 | 16.8 | 8.4 | 5.2 | 3.1 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1170.9 | 531.0 | 11.5 | 6.3 | 2.1 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 624.2 | 226.2 | 8.4 | 4.2 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 195.8 | 57.6 | 5.2 | 2.1 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 42.9 | 15.7 | 3.1 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 14.7 | 6.3 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 5.2 | 2.1 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.1 | 1.0 | 1.0 | 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)