

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: P673400

Luminaire Tested: **CCP-SA-1F-735-U-T4FT-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673400
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1F-735-U-T4FT-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1200mA w/ T4FT distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

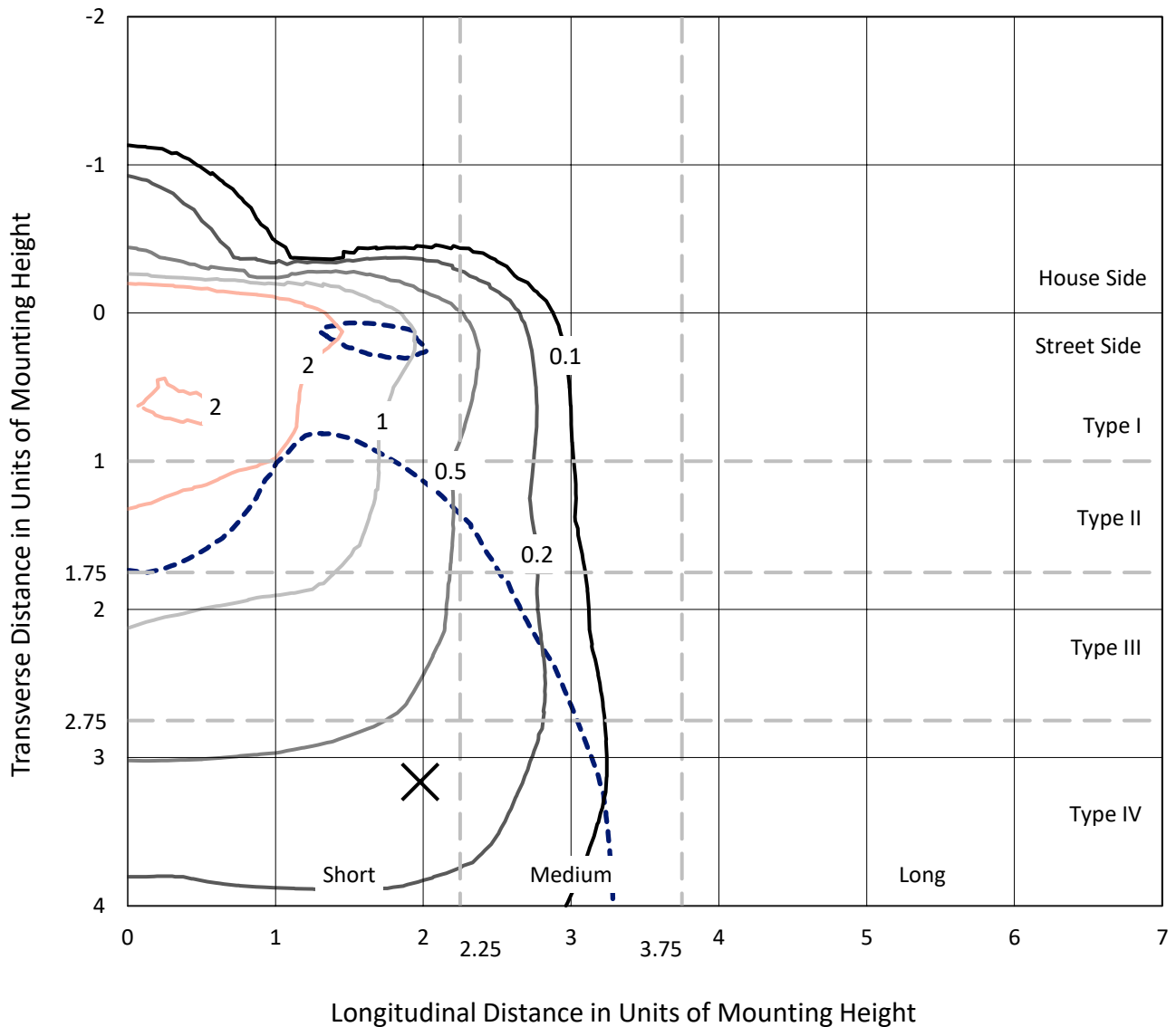
Lumens per Lamp: N/A
Luminaire Lumens: 5309.9 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

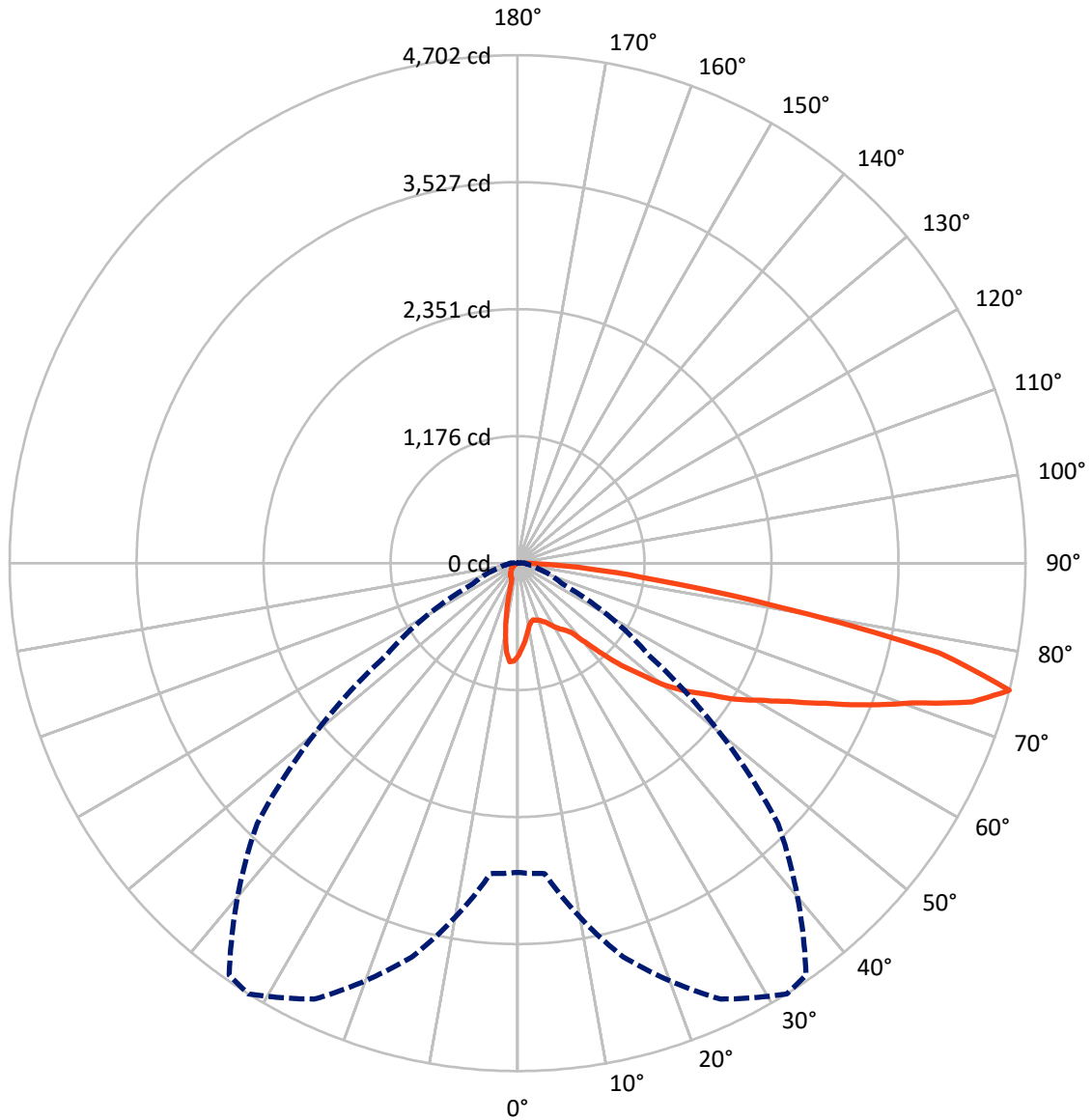
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 573.6 | 0.0 | 573.6 |
| | % Fixture | 10.8 | 0.0 | 10.8 |
| Street Side | Lumens | 4736.3 | 0.0 | 4736.3 |
| | % Fixture | 89.2 | 0.0 | 89.2 |
| Total | Lumens | 5309.9 | 0.0 | 5309.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 75.4 | 1.4 |
| 10°-20° | 171.1 | 3.2 |
| 20°-30° | 256.1 | 4.8 |
| 30°-40° | 393.1 | 7.4 |
| 40°-50° | 687.5 | 12.9 |
| 50°-60° | 1074.7 | 20.2 |
| 60°-70° | 1389.4 | 26.2 |
| 70°-80° | 1131.6 | 21.3 |
| 80°-90° | 131.0 | 2.5 |
| 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° | 5309.9 | 100.0 |
| 0°-180° | 5309.9 | 100.0 |



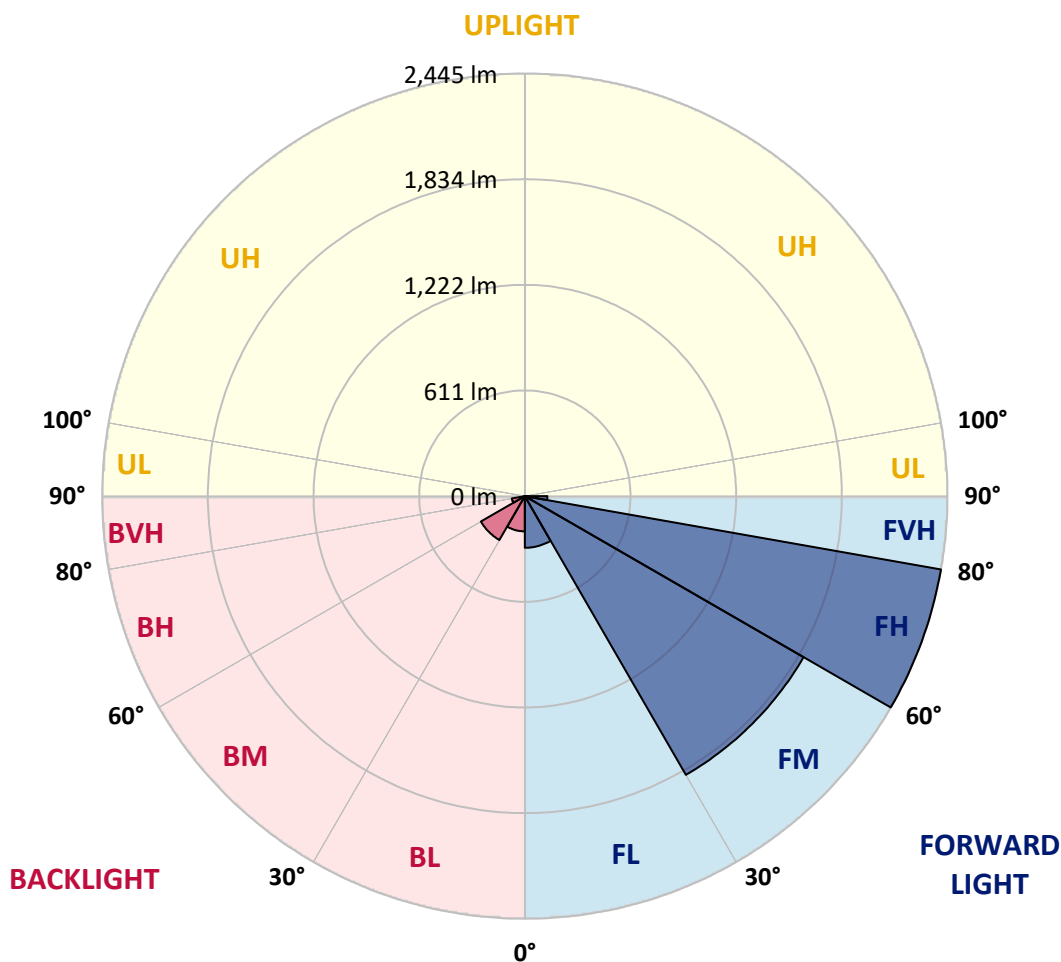
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 298.8 | 5.6 | | | |
| FM (30°-60°) | 1861.9 | 35.1 | | | |
| FH (60°-80°) | 2444.8 | 46.0 | | | G2/5000 |
| FVH (80°-90°) | 130.9 | 2.5 | | | G2/225 |
| BL (0°-30°) | 203.8 | 3.8 | B1/500 | | |
| BM (30°-60°) | 293.5 | 5.5 | B1/1000 | | |
| BH (60°-80°) | 76.3 | 1.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.1 | 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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 32° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 857.4 | 857.4 | 857.4 | 857.4 | 857.4 | 857.4 | 857.4 | 857.4 | 857.4 | 857.4 | 857.4 |
| 2.5° | 768.9 | 779.8 | 778.5 | 785.3 | 786.6 | 790.7 | 800.2 | 800.2 | 827.4 | 846.5 | 858.8 |
| 5° | 699.5 | 692.7 | 695.4 | 703.6 | 724.0 | 722.7 | 745.8 | 758.0 | 790.7 | 817.9 | 846.5 |
| 7.5° | 613.8 | 612.4 | 617.9 | 636.9 | 651.9 | 664.1 | 688.6 | 719.9 | 763.5 | 804.3 | 854.7 |
| 10° | 559.3 | 556.6 | 567.5 | 573.0 | 590.6 | 598.8 | 636.9 | 685.9 | 737.6 | 796.1 | 854.7 |
| 12.5° | 547.1 | 537.6 | 543.0 | 541.7 | 558.0 | 562.1 | 598.8 | 658.7 | 721.3 | 793.4 | 865.6 |
| 15° | 553.9 | 547.1 | 541.7 | 541.7 | 545.7 | 548.5 | 587.9 | 641.0 | 711.8 | 797.5 | 890.1 |
| 17.5° | 575.7 | 571.6 | 555.3 | 538.9 | 556.6 | 556.6 | 581.1 | 636.9 | 713.1 | 809.8 | 920.0 |
| 20° | 601.5 | 597.5 | 568.9 | 549.8 | 562.1 | 575.7 | 601.5 | 646.4 | 717.2 | 819.3 | 966.3 |
| 22.5° | 630.1 | 630.1 | 590.6 | 568.9 | 585.2 | 586.6 | 632.8 | 676.4 | 733.5 | 843.8 | 996.2 |
| 25° | 665.5 | 662.8 | 624.7 | 600.2 | 605.6 | 620.6 | 662.8 | 709.0 | 763.5 | 877.8 | 1052.0 |
| 27.5° | 711.8 | 707.7 | 662.8 | 638.3 | 645.1 | 661.4 | 709.0 | 755.3 | 790.7 | 891.4 | 1099.6 |
| 30° | 749.9 | 745.8 | 709.0 | 672.3 | 687.3 | 702.2 | 758.0 | 798.9 | 824.7 | 917.3 | 1154.1 |
| 32.5° | 758.0 | 751.2 | 726.7 | 710.4 | 726.7 | 755.3 | 798.9 | 841.1 | 880.5 | 982.6 | 1257.5 |
| 35° | 851.9 | 827.4 | 763.5 | 737.6 | 762.1 | 771.7 | 843.8 | 918.6 | 956.7 | 1034.3 | 1373.2 |
| 37.5° | 1031.6 | 1008.5 | 924.1 | 851.9 | 817.9 | 828.8 | 922.7 | 1015.3 | 1052.0 | 1130.9 | 1499.8 |
| 40° | 1252.1 | 1214.0 | 1124.1 | 1027.5 | 958.1 | 944.5 | 1005.7 | 1141.8 | 1177.2 | 1252.1 | 1665.8 |
| 42.5° | 1503.8 | 1467.1 | 1328.3 | 1214.0 | 1143.2 | 1125.5 | 1135.0 | 1288.8 | 1318.7 | 1363.7 | 1774.7 |
| 45° | 1684.8 | 1665.8 | 1509.3 | 1407.2 | 1351.4 | 1332.4 | 1309.2 | 1449.4 | 1487.5 | 1502.5 | 1932.5 |
| 47.5° | 1789.6 | 1776.0 | 1688.9 | 1619.5 | 1544.7 | 1524.2 | 1539.2 | 1672.6 | 1646.7 | 1659.0 | 2083.6 |
| 50° | 1929.8 | 1894.4 | 1776.0 | 1797.8 | 1782.8 | 1777.4 | 1803.2 | 1861.8 | 1823.7 | 1788.3 | 2248.3 |
| 52.5° | 2042.8 | 1980.2 | 1897.1 | 1950.2 | 1973.4 | 1993.8 | 2085.0 | 2128.5 | 1958.4 | 1903.9 | 2354.4 |
| 55° | 2112.2 | 2052.3 | 2074.1 | 2123.1 | 2147.6 | 2241.5 | 2349.0 | 2316.3 | 2046.8 | 1996.5 | 2496.0 |
| 57.5° | 2174.8 | 2178.9 | 2237.4 | 2252.3 | 2377.6 | 2393.9 | 2600.7 | 2494.6 | 2109.4 | 2080.9 | 2551.8 |
| 60° | 2325.8 | 2310.9 | 2358.5 | 2455.1 | 2574.9 | 2666.1 | 2863.4 | 2614.4 | 2140.8 | 2124.4 | 2536.8 |
| 62.5° | 2598.0 | 2505.5 | 2521.8 | 2644.3 | 2819.9 | 2919.2 | 3014.5 | 2668.8 | 2132.6 | 2131.2 | 2491.9 |
| 65° | 2943.7 | 2837.6 | 2788.6 | 2902.9 | 3130.2 | 3270.3 | 3184.6 | 2730.0 | 2078.1 | 2116.3 | 2324.5 |
| 67.5° | 3230.9 | 3232.2 | 3141.0 | 3205.0 | 3501.7 | 3531.6 | 3345.2 | 2717.8 | 1987.0 | 1997.9 | 1916.2 |
| 70° | 3561.6 | 3606.5 | 3526.2 | 3726.2 | 3874.6 | 3893.6 | 3528.9 | 2617.1 | 1791.0 | 1506.6 | 1101.0 |
| 72.5° | 3645.9 | 3669.1 | 3919.5 | 4227.1 | 4394.5 | 4399.9 | 3709.9 | 2280.9 | 1178.6 | 665.5 | 341.6 |
| 75° | 2863.4 | 2885.2 | 3772.5 | 4453.0 | 4702.0 | 4654.4 | 3407.8 | 1480.7 | 458.6 | 194.6 | 81.7 |
| 77.5° | 1597.7 | 1604.5 | 2342.2 | 3599.7 | 3988.9 | 3797.0 | 2387.1 | 577.0 | 185.1 | 111.6 | 38.1 |
| 80° | 436.9 | 513.1 | 868.3 | 1774.7 | 2436.1 | 2391.2 | 1136.4 | 187.8 | 119.8 | 87.1 | 17.7 |
| 82.5° | 104.8 | 113.0 | 279.0 | 785.3 | 1287.4 | 1343.2 | 338.9 | 95.3 | 83.0 | 72.1 | 9.5 |
| 85° | 38.1 | 42.2 | 85.7 | 382.4 | 661.4 | 607.0 | 102.1 | 47.6 | 61.2 | 55.8 | 4.1 |
| 87.5° | 13.6 | 13.6 | 27.2 | 125.2 | 193.3 | 145.6 | 34.0 | 16.3 | 31.3 | 34.0 | 1.4 |
| 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° | 857.4 | 857.4 | 857.4 | 857.4 | 857.4 | 857.4 | 857.4 | 857.4 | 857.4 | 857.4 | 857.4 |
| 2.5° | 860.1 | 860.1 | 879.2 | 895.5 | 900.9 | 907.7 | 900.9 | 915.9 | 914.5 | 907.7 | 910.5 |
| 5° | 861.5 | 886.0 | 902.3 | 913.2 | 918.6 | 917.3 | 920.0 | 903.7 | 894.1 | 887.3 | 880.5 |
| 7.5° | 868.3 | 891.4 | 921.4 | 918.6 | 903.7 | 872.4 | 847.9 | 804.3 | 762.1 | 760.8 | 754.0 |
| 10° | 891.4 | 911.8 | 929.5 | 918.6 | 864.2 | 768.9 | 691.4 | 632.8 | 579.8 | 555.3 | 558.0 |
| 12.5° | 907.7 | 945.9 | 937.7 | 881.9 | 768.9 | 643.7 | 529.4 | 443.7 | 396.0 | 351.1 | 351.1 |
| 15° | 941.8 | 955.4 | 952.7 | 828.8 | 651.9 | 502.2 | 363.4 | 276.3 | 225.9 | 205.5 | 202.8 |
| 17.5° | 974.4 | 989.4 | 943.1 | 748.5 | 536.2 | 337.5 | 220.5 | 171.5 | 164.7 | 162.0 | 163.3 |
| 20° | 1015.3 | 1016.6 | 935.0 | 668.2 | 402.8 | 213.7 | 157.9 | 153.8 | 155.1 | 153.8 | 153.8 |
| 22.5° | 1058.8 | 1068.3 | 906.4 | 555.3 | 268.1 | 155.1 | 147.0 | 148.3 | 148.3 | 148.3 | 152.4 |
| 25° | 1116.0 | 1101.0 | 861.5 | 447.7 | 175.6 | 142.9 | 142.9 | 144.3 | 144.3 | 144.3 | 145.6 |
| 27.5° | 1154.1 | 1133.7 | 804.3 | 322.5 | 137.5 | 134.7 | 137.5 | 137.5 | 140.2 | 140.2 | 140.2 |
| 30° | 1233.0 | 1179.9 | 732.2 | 208.2 | 123.8 | 127.9 | 130.6 | 133.4 | 134.7 | 137.5 | 138.8 |
| 32.5° | 1294.2 | 1220.8 | 642.4 | 138.8 | 113.0 | 115.7 | 122.5 | 127.9 | 133.4 | 132.0 | 132.0 |
| 35° | 1405.8 | 1287.4 | 559.3 | 110.2 | 103.4 | 103.4 | 110.2 | 119.8 | 127.9 | 130.6 | 130.6 |
| 37.5° | 1533.8 | 1341.9 | 443.7 | 100.7 | 95.3 | 95.3 | 99.3 | 110.2 | 121.1 | 126.6 | 123.8 |
| 40° | 1639.9 | 1404.5 | 328.0 | 93.9 | 88.5 | 88.5 | 91.2 | 99.3 | 111.6 | 121.1 | 122.5 |
| 42.5° | 1714.8 | 1450.8 | 221.8 | 87.1 | 83.0 | 81.7 | 85.7 | 89.8 | 99.3 | 113.0 | 115.7 |
| 45° | 1782.8 | 1475.3 | 137.5 | 80.3 | 77.6 | 77.6 | 77.6 | 81.7 | 88.5 | 100.7 | 103.4 |
| 47.5° | 1903.9 | 1502.5 | 99.3 | 74.9 | 70.8 | 72.1 | 73.5 | 74.9 | 80.3 | 83.0 | 84.4 |
| 50° | 2006.0 | 1522.9 | 81.7 | 69.4 | 66.7 | 68.0 | 68.0 | 68.0 | 70.8 | 66.7 | 66.7 |
| 52.5° | 2083.6 | 1502.5 | 69.4 | 64.0 | 61.2 | 62.6 | 61.2 | 61.2 | 58.5 | 53.1 | 53.1 |
| 55° | 2140.8 | 1465.7 | 55.8 | 58.5 | 58.5 | 58.5 | 55.8 | 51.7 | 46.3 | 42.2 | 42.2 |
| 57.5° | 2155.7 | 1403.1 | 43.5 | 49.0 | 53.1 | 53.1 | 47.6 | 42.2 | 35.4 | 31.3 | 29.9 |
| 60° | 2132.6 | 1267.0 | 32.7 | 35.4 | 40.8 | 42.2 | 38.1 | 31.3 | 24.5 | 20.4 | 20.4 |
| 62.5° | 2049.6 | 1159.5 | 25.9 | 23.1 | 29.9 | 31.3 | 27.2 | 20.4 | 13.6 | 9.5 | 8.2 |
| 65° | 1891.7 | 993.5 | 19.1 | 16.3 | 20.4 | 21.8 | 17.7 | 9.5 | 4.1 | 1.4 | 0.0 |
| 67.5° | 1517.4 | 748.5 | 12.2 | 10.9 | 13.6 | 13.6 | 8.2 | 2.7 | 0.0 | 0.0 | 0.0 |
| 70° | 839.7 | 420.5 | 8.2 | 5.4 | 6.8 | 4.1 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 242.2 | 119.8 | 4.1 | 2.7 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 65.3 | 28.6 | 2.7 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 28.6 | 10.9 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 12.2 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 6.8 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.4 | 0.0 | 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)