

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: P673696

Luminaire Tested: **CCP-SA-1C-740-U-SL2-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673696
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1C-740-U-SL2-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @615mA w/ SL2 distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

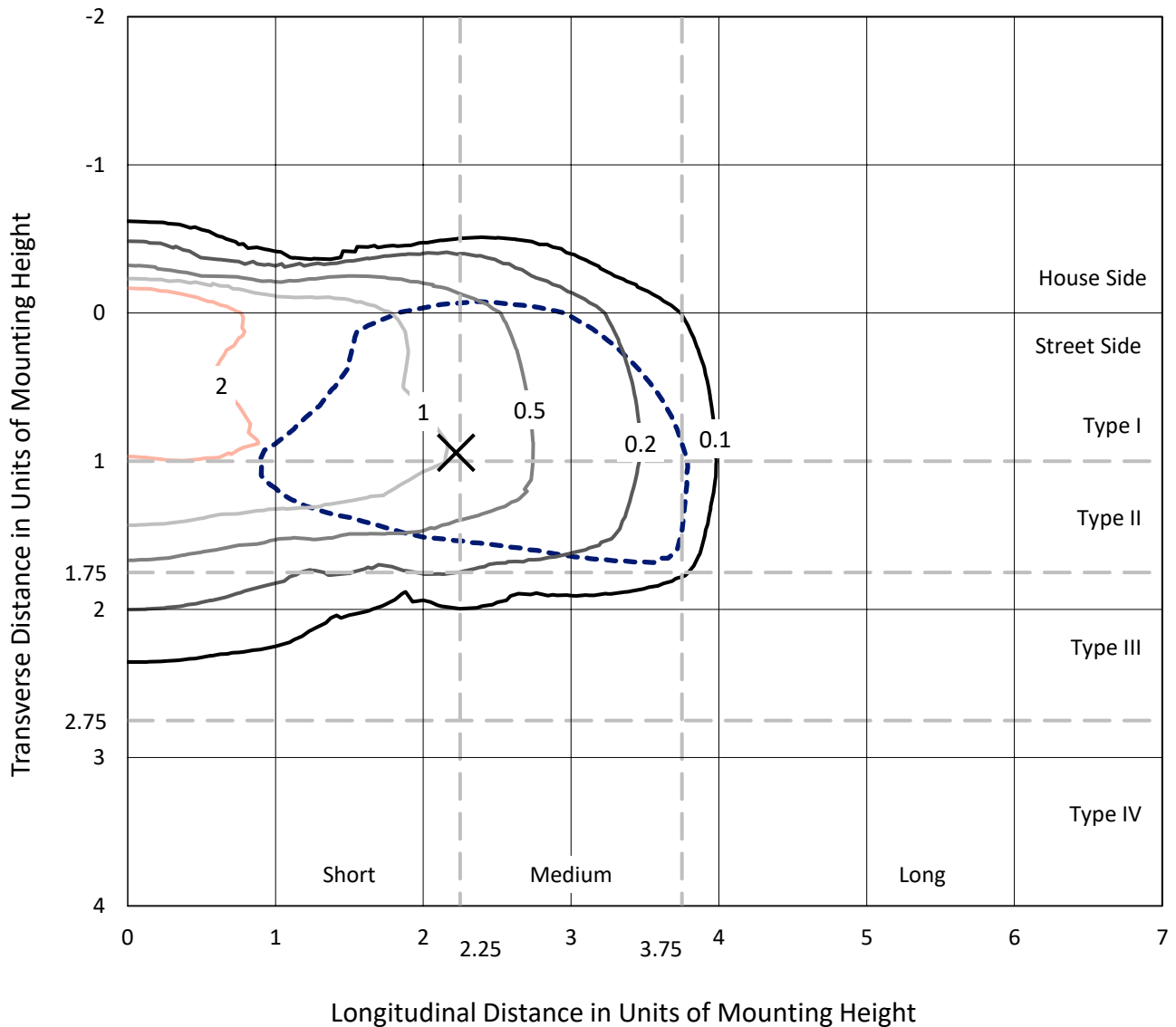
Lumens per Lamp: N/A
Luminaire Lumens: 3635.8 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

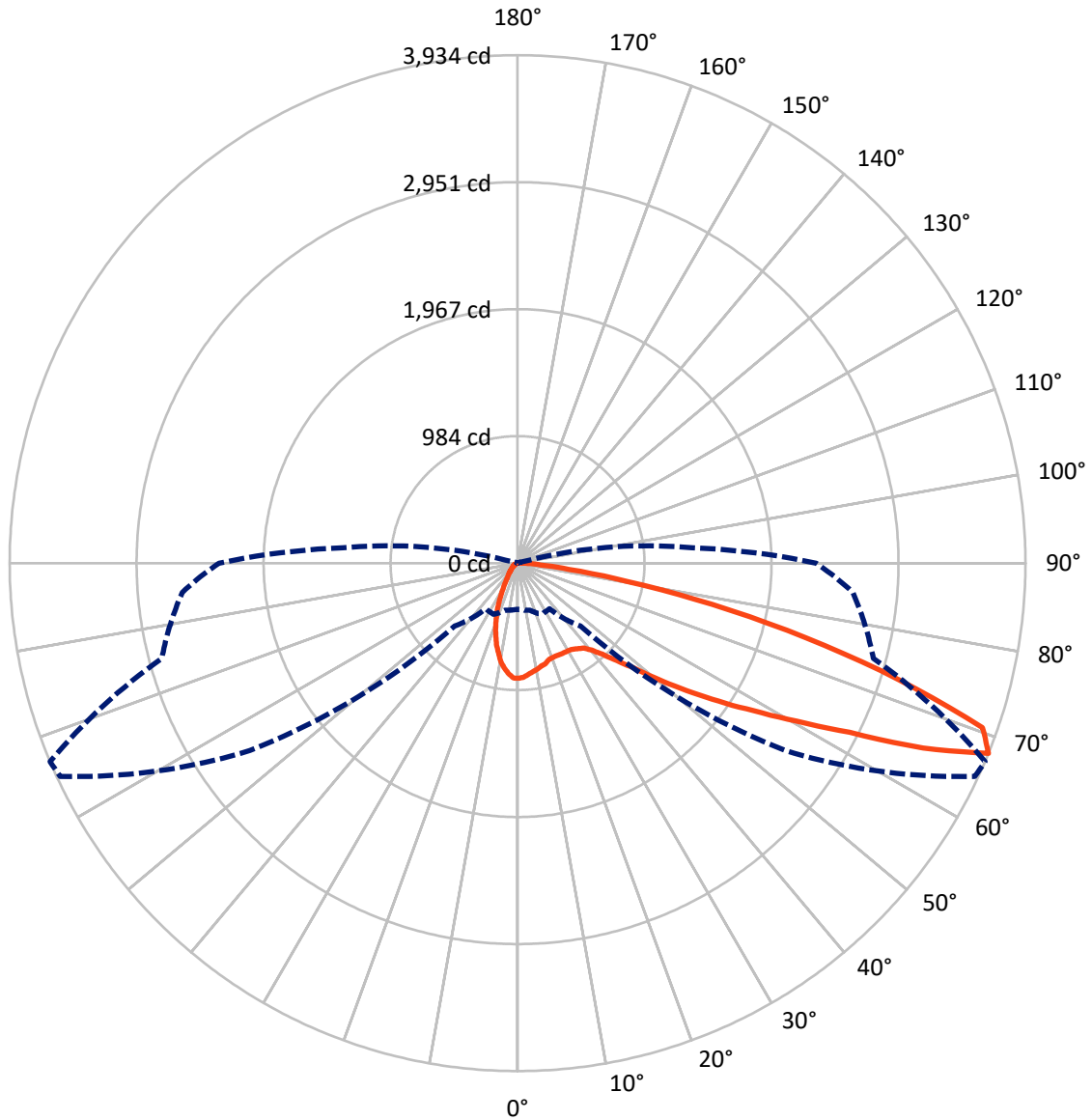
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 457.6 | 0.0 | 457.6 |
| | % Fixture | 12.6 | 0.0 | 12.6 |
| Street Side | Lumens | 3178.2 | 0.0 | 3178.2 |
| | % Fixture | 87.4 | 0.0 | 87.4 |
| Total | Lumens | 3635.8 | 0.0 | 3635.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 75.1 | 2.1 |
| 10°-20° | 166.9 | 4.6 |
| 20°-30° | 237.4 | 6.5 |
| 30°-40° | 345.6 | 9.5 |
| 40°-50° | 534.9 | 14.7 |
| 50°-60° | 820.9 | 22.6 |
| 60°-70° | 889.9 | 24.5 |
| 70°-80° | 502.0 | 13.8 |
| 80°-90° | 63.1 | 1.7 |
| 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° | 3635.8 | 100.0 |
| 0°-180° | 3635.8 | 100.0 |



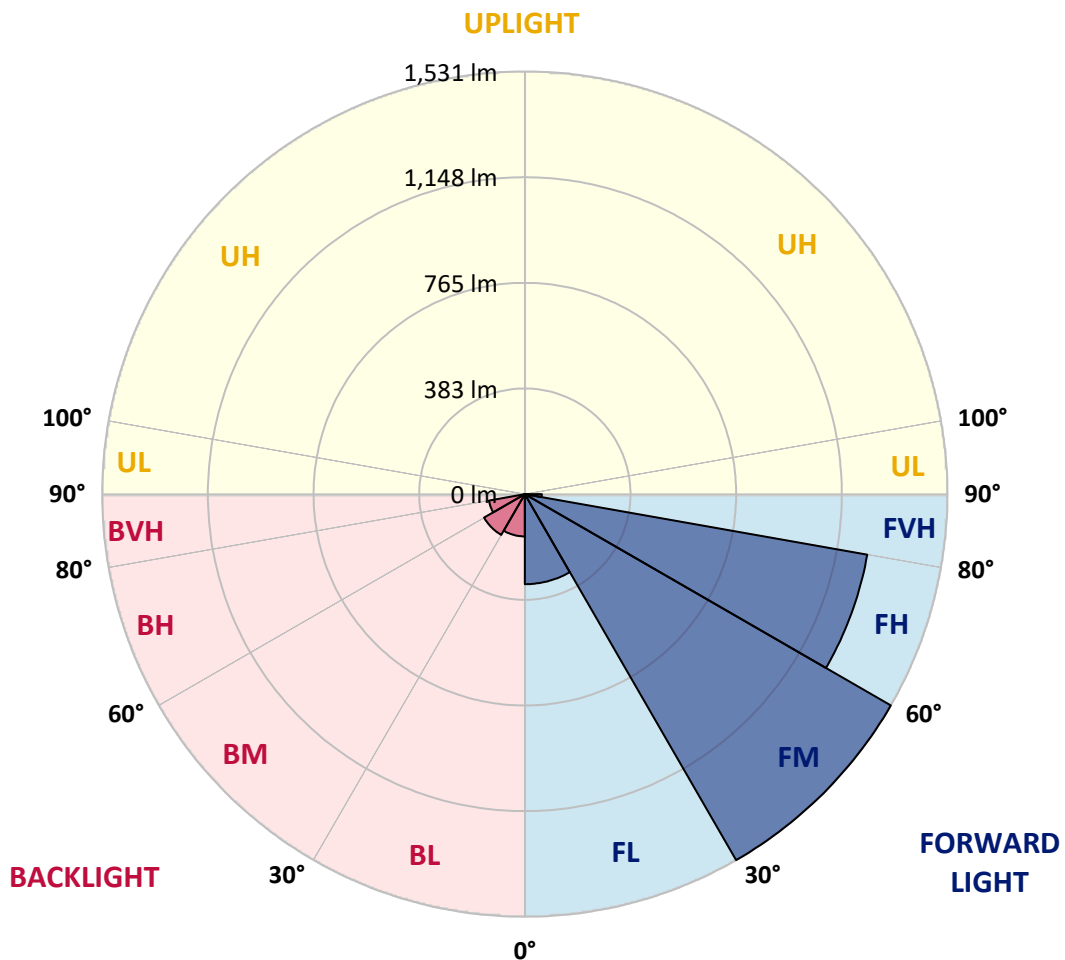
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 326.2 | 9.0 | | | |
| FM (30°-60°) | 1531.0 | 42.1 | | | |
| FH (60°-80°) | 1259.7 | 34.6 | | | G1/1800 |
| FVH (80°-90°) | 61.3 | 1.7 | | | G1/100 |
| BL (0°-30°) | 153.2 | 4.2 | B1/500 | | |
| BM (30°-60°) | 170.4 | 4.7 | B0/220 | | |
| BH (60°-80°) | 132.2 | 3.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.8 | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 891.8 | 891.8 | 891.8 | 891.8 | 891.8 | 891.8 | 891.8 | 891.8 | 891.8 | 891.8 | 891.8 |
| 2.5° | 853.3 | 857.6 | 863.8 | 872.5 | 878.7 | 875.2 | 877.8 | 892.7 | 884.8 | 891.8 | 888.3 |
| 5° | 805.9 | 810.3 | 819.1 | 818.2 | 825.2 | 838.4 | 855.9 | 875.2 | 866.4 | 887.4 | 895.3 |
| 7.5° | 756.9 | 755.1 | 755.1 | 773.5 | 788.4 | 806.8 | 816.5 | 848.0 | 848.9 | 867.3 | 886.5 |
| 10° | 712.2 | 717.5 | 726.2 | 733.2 | 747.3 | 773.5 | 801.6 | 826.1 | 835.7 | 872.5 | 877.8 |
| 12.5° | 685.1 | 687.7 | 698.2 | 704.3 | 722.7 | 748.1 | 777.9 | 809.4 | 817.3 | 855.0 | 880.4 |
| 15° | 673.7 | 679.8 | 683.3 | 694.7 | 704.3 | 728.0 | 749.9 | 785.8 | 808.6 | 838.4 | 869.9 |
| 17.5° | 682.4 | 679.8 | 681.5 | 685.1 | 696.4 | 717.5 | 741.1 | 777.0 | 784.9 | 834.9 | 882.2 |
| 20° | 693.8 | 694.7 | 689.4 | 687.7 | 685.1 | 705.2 | 724.5 | 770.9 | 779.7 | 834.9 | 890.0 |
| 22.5° | 724.5 | 714.8 | 724.5 | 710.5 | 696.4 | 705.2 | 723.6 | 771.8 | 777.9 | 834.0 | 897.9 |
| 25° | 762.1 | 763.9 | 766.5 | 736.7 | 716.6 | 710.5 | 729.7 | 774.4 | 779.7 | 841.0 | 901.4 |
| 27.5° | 815.6 | 823.5 | 810.3 | 795.4 | 755.1 | 724.5 | 728.9 | 772.7 | 782.3 | 837.5 | 910.2 |
| 30° | 887.4 | 881.3 | 883.0 | 848.9 | 809.4 | 761.3 | 749.0 | 777.0 | 784.0 | 841.9 | 926.8 |
| 32.5° | 949.6 | 942.6 | 954.9 | 942.6 | 880.4 | 813.8 | 772.7 | 785.8 | 793.7 | 852.4 | 940.9 |
| 35° | 988.2 | 996.9 | 1016.2 | 1029.3 | 976.8 | 882.2 | 812.1 | 809.4 | 813.0 | 857.6 | 951.4 |
| 37.5° | 1047.7 | 1063.5 | 1079.3 | 1112.6 | 1067.0 | 966.3 | 874.3 | 840.1 | 834.0 | 883.0 | 956.6 |
| 40° | 1112.6 | 1108.2 | 1154.6 | 1194.0 | 1192.3 | 1084.5 | 961.0 | 894.4 | 885.7 | 923.3 | 991.7 |
| 42.5° | 1166.9 | 1162.5 | 1214.2 | 1279.0 | 1286.0 | 1198.4 | 1060.0 | 971.5 | 963.6 | 985.5 | 1034.6 |
| 45° | 1237.8 | 1241.3 | 1302.7 | 1379.7 | 1405.1 | 1349.1 | 1194.0 | 1081.9 | 1077.5 | 1070.5 | 1116.1 |
| 47.5° | 1300.9 | 1320.2 | 1372.7 | 1463.8 | 1555.8 | 1505.0 | 1351.7 | 1243.1 | 1212.4 | 1196.7 | 1242.2 |
| 50° | 1344.7 | 1362.2 | 1426.2 | 1523.4 | 1691.6 | 1724.0 | 1528.7 | 1414.8 | 1415.7 | 1377.1 | 1401.6 |
| 52.5° | 1344.7 | 1343.8 | 1395.5 | 1523.4 | 1786.2 | 1952.7 | 1765.2 | 1631.2 | 1638.2 | 1597.9 | 1599.6 |
| 55° | 1215.0 | 1212.4 | 1275.5 | 1411.3 | 1775.7 | 2172.5 | 2123.5 | 1905.4 | 1887.8 | 1809.9 | 1817.8 |
| 57.5° | 978.5 | 984.7 | 1032.8 | 1195.8 | 1639.0 | 2275.0 | 2550.1 | 2213.7 | 2154.1 | 1993.0 | 1993.0 |
| 60° | 714.0 | 708.7 | 744.6 | 858.5 | 1313.2 | 2236.5 | 2900.5 | 2577.3 | 2483.5 | 2144.5 | 2121.7 |
| 62.5° | 543.1 | 542.3 | 551.9 | 590.4 | 833.1 | 1950.0 | 3051.2 | 3039.8 | 2887.4 | 2293.4 | 2261.0 |
| 65° | 438.9 | 440.6 | 453.8 | 480.9 | 509.0 | 1329.8 | 2971.5 | 3591.7 | 3452.4 | 2515.1 | 2409.1 |
| 67.5° | 358.3 | 362.7 | 378.4 | 437.1 | 431.0 | 688.6 | 2530.8 | 3908.0 | 3934.2 | 2853.2 | 2607.9 |
| 70° | 275.9 | 283.0 | 301.4 | 384.6 | 415.2 | 458.2 | 1754.7 | 3750.3 | 3820.4 | 3063.5 | 2487.9 |
| 72.5° | 187.5 | 186.6 | 226.0 | 311.9 | 419.6 | 419.6 | 976.8 | 3020.5 | 3087.1 | 2824.3 | 2161.2 |
| 75° | 101.6 | 107.8 | 149.8 | 235.7 | 384.6 | 405.6 | 556.3 | 2210.2 | 2304.0 | 2196.2 | 1671.5 |
| 77.5° | 55.2 | 56.1 | 83.2 | 154.2 | 319.7 | 387.2 | 371.4 | 1503.3 | 1540.1 | 1324.6 | 915.4 |
| 80° | 28.9 | 29.8 | 43.8 | 100.7 | 220.8 | 359.2 | 309.2 | 896.2 | 861.1 | 508.1 | 302.2 |
| 82.5° | 13.1 | 14.0 | 21.9 | 63.1 | 141.0 | 283.0 | 267.2 | 432.8 | 399.5 | 141.9 | 92.0 |
| 85° | 5.3 | 5.3 | 9.6 | 37.7 | 82.3 | 139.3 | 228.6 | 217.3 | 181.3 | 42.9 | 45.6 |
| 87.5° | 1.8 | 1.8 | 2.6 | 14.9 | 33.3 | 83.2 | 121.8 | 114.8 | 78.8 | 15.8 | 24.5 |
| 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° | 891.8 | 891.8 | 891.8 | 891.8 | 891.8 | 891.8 | 891.8 | 891.8 | 891.8 | 891.8 | 891.8 |
| 2.5° | 884.8 | 894.4 | 891.8 | 890.0 | 873.4 | 871.6 | 869.9 | 854.1 | 859.4 | 846.2 | 855.0 |
| 5° | 890.0 | 895.3 | 881.3 | 855.0 | 831.3 | 805.1 | 784.9 | 770.9 | 745.5 | 735.9 | 734.1 |
| 7.5° | 884.8 | 884.8 | 855.9 | 813.8 | 767.4 | 724.5 | 670.2 | 631.6 | 602.7 | 580.8 | 588.7 |
| 10° | 877.8 | 867.3 | 837.5 | 763.0 | 678.9 | 614.1 | 536.1 | 479.2 | 436.3 | 422.2 | 413.5 |
| 12.5° | 877.8 | 859.4 | 792.8 | 691.2 | 582.6 | 484.4 | 391.6 | 317.1 | 275.9 | 251.4 | 247.9 |
| 15° | 869.9 | 842.7 | 760.4 | 623.7 | 488.8 | 355.7 | 249.7 | 185.7 | 150.7 | 141.0 | 137.5 |
| 17.5° | 871.6 | 839.2 | 712.2 | 544.0 | 379.3 | 236.5 | 152.4 | 117.4 | 108.6 | 104.2 | 105.1 |
| 20° | 875.2 | 839.2 | 669.3 | 466.0 | 273.3 | 147.2 | 105.1 | 99.0 | 94.6 | 92.9 | 93.7 |
| 22.5° | 886.5 | 822.6 | 625.5 | 386.3 | 184.8 | 106.0 | 92.9 | 86.7 | 83.2 | 80.6 | 79.7 |
| 25° | 888.3 | 820.0 | 583.4 | 307.5 | 127.0 | 89.4 | 81.5 | 74.5 | 70.1 | 66.6 | 65.7 |
| 27.5° | 885.7 | 808.6 | 524.7 | 228.6 | 95.5 | 79.7 | 69.2 | 62.2 | 56.1 | 53.4 | 52.6 |
| 30° | 895.3 | 787.5 | 474.8 | 164.7 | 80.6 | 69.2 | 58.7 | 50.8 | 45.6 | 42.0 | 42.0 |
| 32.5° | 896.2 | 769.2 | 419.6 | 117.4 | 73.6 | 61.3 | 49.9 | 41.2 | 35.9 | 34.2 | 34.2 |
| 35° | 897.1 | 752.5 | 358.3 | 89.4 | 65.7 | 52.6 | 41.2 | 34.2 | 30.7 | 28.0 | 28.0 |
| 37.5° | 899.7 | 740.2 | 302.2 | 75.3 | 58.7 | 44.7 | 34.2 | 28.0 | 24.5 | 23.7 | 23.7 |
| 40° | 904.9 | 723.6 | 243.5 | 66.6 | 50.8 | 37.7 | 28.9 | 23.7 | 20.1 | 19.3 | 18.4 |
| 42.5° | 919.0 | 719.2 | 194.5 | 59.6 | 45.6 | 31.5 | 23.7 | 19.3 | 16.6 | 14.9 | 14.0 |
| 45° | 976.8 | 730.6 | 150.7 | 55.2 | 38.5 | 26.3 | 20.1 | 15.8 | 12.3 | 11.4 | 10.5 |
| 47.5° | 1071.4 | 768.3 | 119.1 | 49.1 | 32.4 | 21.9 | 16.6 | 12.3 | 9.6 | 8.8 | 7.9 |
| 50° | 1215.0 | 854.1 | 97.2 | 43.8 | 27.2 | 18.4 | 13.1 | 9.6 | 7.0 | 6.1 | 6.1 |
| 52.5° | 1403.4 | 969.8 | 84.1 | 38.5 | 21.9 | 15.8 | 10.5 | 7.0 | 5.3 | 4.4 | 4.4 |
| 55° | 1596.1 | 1106.4 | 78.8 | 33.3 | 18.4 | 13.1 | 7.9 | 5.3 | 3.5 | 2.6 | 2.6 |
| 57.5° | 1773.1 | 1194.9 | 76.2 | 27.2 | 15.8 | 9.6 | 6.1 | 3.5 | 1.8 | 0.9 | 0.9 |
| 60° | 1883.5 | 1259.7 | 68.3 | 21.9 | 12.3 | 7.9 | 4.4 | 1.8 | 0.9 | 0.0 | 0.0 |
| 62.5° | 2028.9 | 1325.4 | 56.1 | 16.6 | 8.8 | 5.3 | 2.6 | 0.9 | 0.0 | 0.0 | 0.0 |
| 65° | 2220.7 | 1399.0 | 43.8 | 13.1 | 7.0 | 3.5 | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 |
| 67.5° | 2312.7 | 1360.5 | 29.8 | 9.6 | 4.4 | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 2128.7 | 1145.8 | 21.0 | 7.0 | 2.6 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1789.7 | 897.9 | 15.8 | 4.4 | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1319.3 | 561.5 | 12.3 | 3.5 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 699.9 | 209.4 | 8.8 | 2.6 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 206.7 | 61.3 | 6.1 | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 68.3 | 18.4 | 3.5 | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 35.0 | 7.0 | 1.8 | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 20.1 | 2.6 | 1.8 | 1.8 | 0.9 | 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)