

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: P675593

Luminaire Tested: **CCW-SA-2A-827-U-SL3**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675593
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-827-U-SL3
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SL3 distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

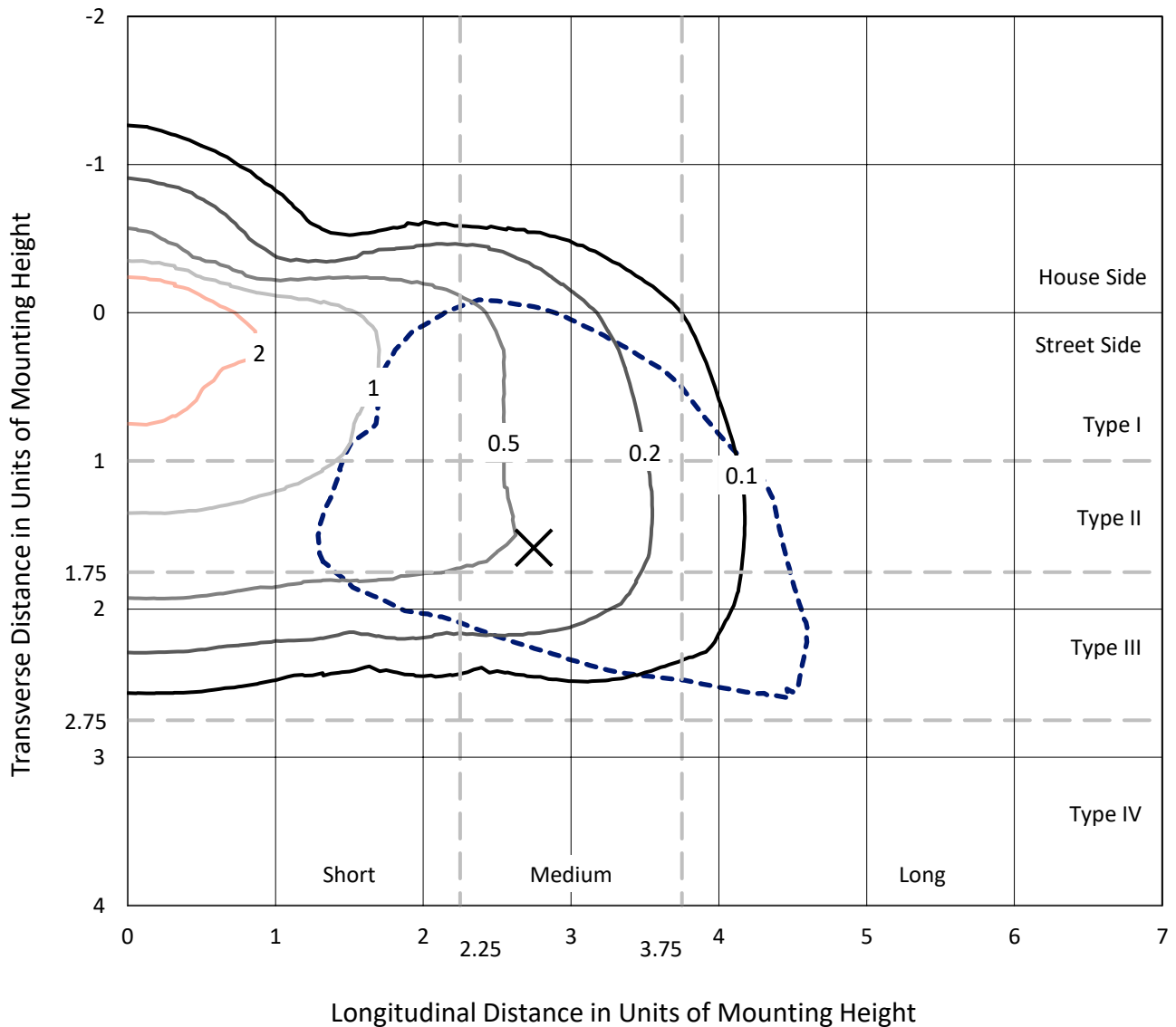
Lumens per Lamp: N/A
Luminaire Lumens: 3976.9 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 36.2
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

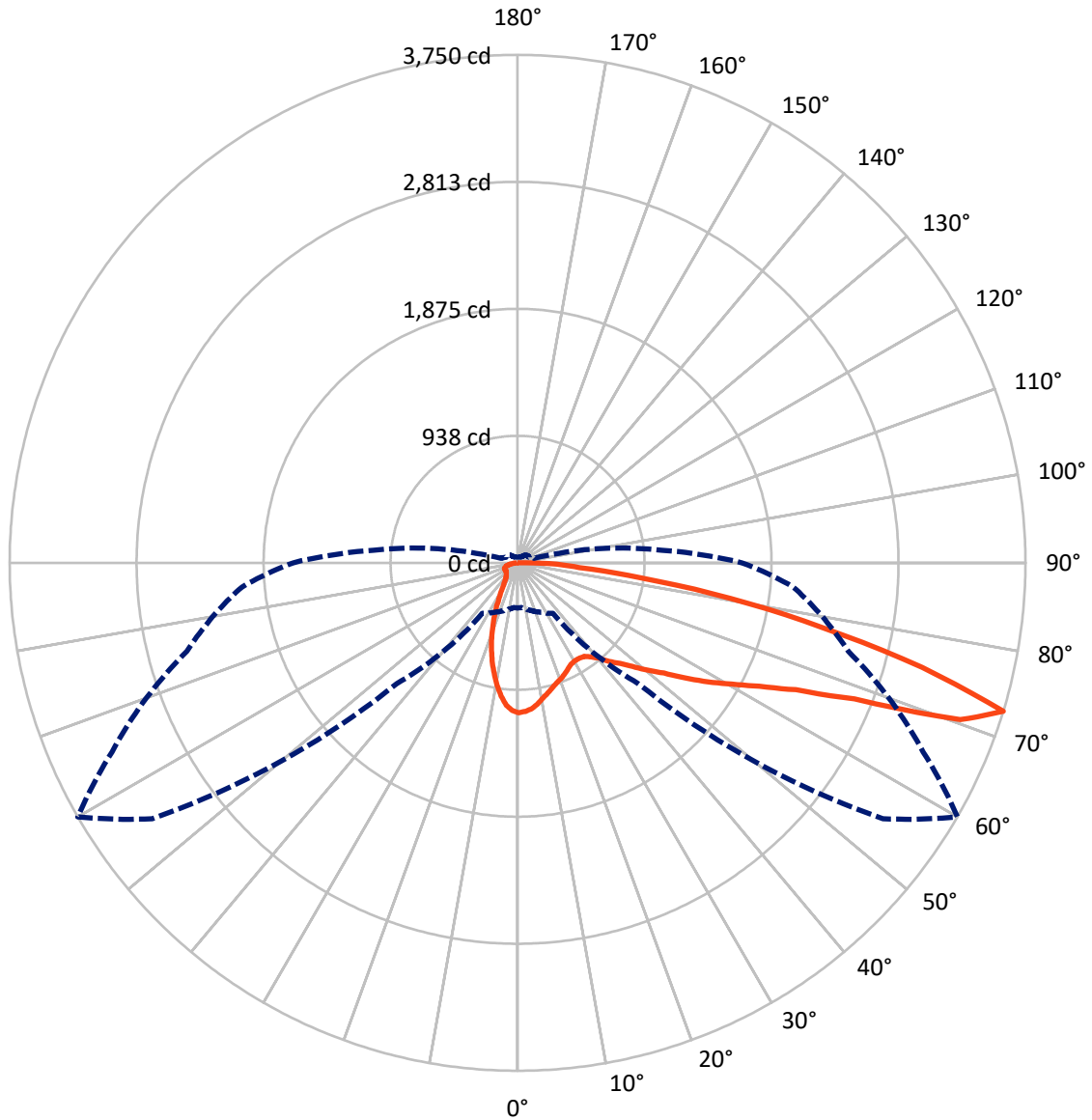
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 683.2 | 0.0 | 683.2 |
| | % Fixture | 17.2 | 0.0 | 17.2 |
| Street Side | Lumens | 3293.7 | 0.0 | 3293.7 |
| | % Fixture | 82.8 | 0.0 | 82.8 |
| Total | Lumens | 3976.9 | 0.0 | 3976.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 96.0 | 2.4 |
| 10°-20° | 217.7 | 5.5 |
| 20°-30° | 278.6 | 7.0 |
| 30°-40° | 356.3 | 9.0 |
| 40°-50° | 488.7 | 12.3 |
| 50°-60° | 706.9 | 17.8 |
| 60°-70° | 969.7 | 24.4 |
| 70°-80° | 727.7 | 18.3 |
| 80°-90° | 135.3 | 3.4 |
| 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° | 3976.9 | 100.0 |
| 0°-180° | 3976.9 | 100.0 |

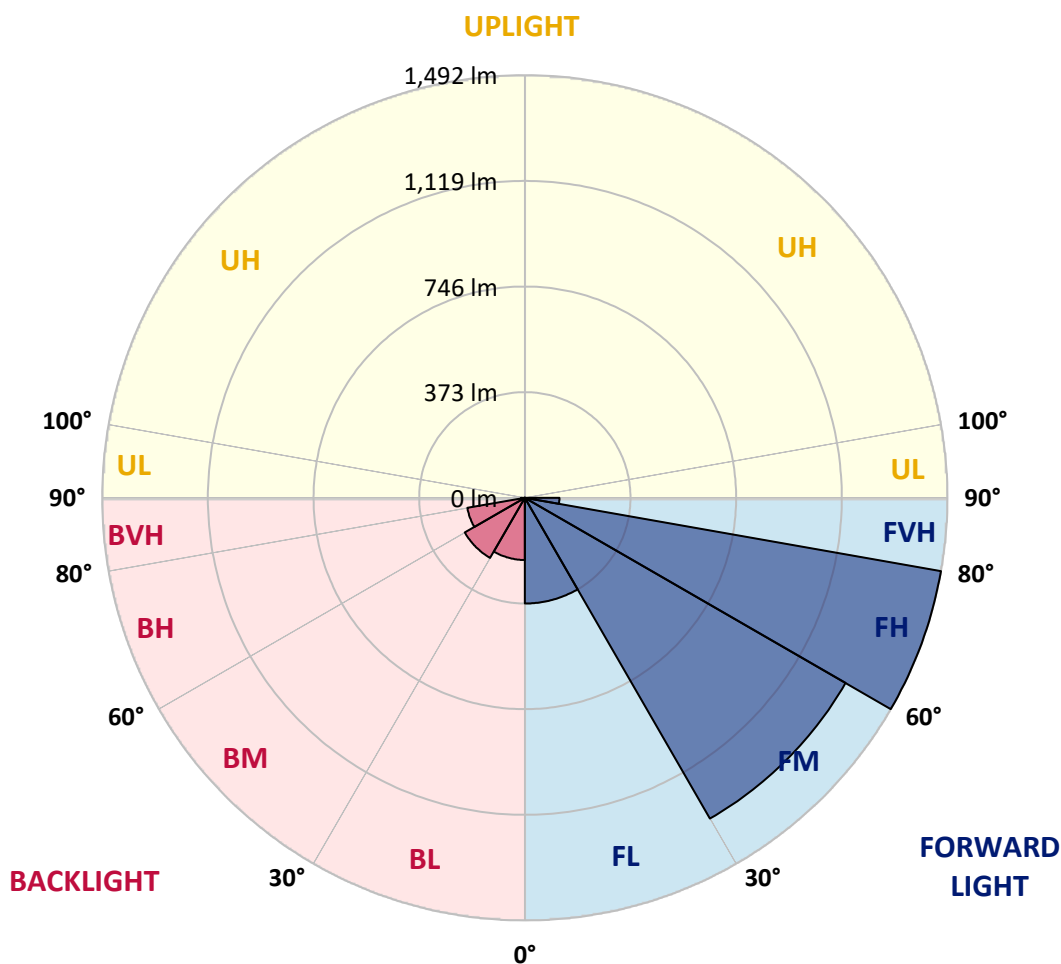


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 372.9 | 9.4 | | | |
| FM (30°-60°) | 1307.2 | 32.9 | | | |
| FH (60°-80°) | 1491.6 | 37.5 | | | G1/1800 |
| FVH (80°-90°) | 122.1 | 3.1 | | | G2/225 |
| BL (0°-30°) | 219.3 | 5.5 | B1/500 | | |
| BM (30°-60°) | 244.8 | 6.2 | B1/1000 | | |
| BH (60°-80°) | 205.9 | 5.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 13.2 | 0.3 | | | 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 III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1107.4 | 1107.4 | 1107.4 | 1107.4 | 1107.4 | 1107.4 | 1107.4 | 1107.4 | 1107.4 | 1107.4 | 1107.4 |
| 2.5° | 1083.7 | 1094.0 | 1097.0 | 1097.0 | 1105.9 | 1095.5 | 1110.3 | 1098.5 | 1101.4 | 1105.9 | 1102.9 |
| 5° | 1031.9 | 1049.6 | 1039.3 | 1058.5 | 1051.1 | 1064.4 | 1082.2 | 1082.2 | 1077.8 | 1086.6 | 1079.2 |
| 7.5° | 981.5 | 975.6 | 993.4 | 993.4 | 1005.2 | 1023.0 | 1037.8 | 1052.6 | 1054.1 | 1057.0 | 1055.6 |
| 10° | 913.4 | 920.8 | 929.7 | 941.6 | 956.4 | 974.1 | 1005.2 | 1017.1 | 1020.0 | 1037.8 | 1033.3 |
| 12.5° | 857.2 | 867.5 | 873.5 | 897.1 | 910.5 | 935.6 | 971.2 | 987.5 | 988.9 | 1014.1 | 1014.1 |
| 15° | 815.7 | 821.6 | 835.0 | 843.9 | 873.5 | 909.0 | 943.0 | 957.8 | 974.1 | 1000.8 | 993.4 |
| 17.5° | 787.6 | 795.0 | 800.9 | 812.8 | 840.9 | 870.5 | 923.8 | 932.7 | 951.9 | 990.4 | 981.5 |
| 20° | 771.3 | 772.8 | 781.7 | 789.1 | 814.2 | 842.4 | 889.7 | 913.4 | 938.6 | 972.7 | 963.8 |
| 22.5° | 774.3 | 768.3 | 766.9 | 777.2 | 781.7 | 808.3 | 866.1 | 891.2 | 926.8 | 966.7 | 951.9 |
| 25° | 780.2 | 781.7 | 778.7 | 769.8 | 771.3 | 795.0 | 833.5 | 866.1 | 906.0 | 965.2 | 935.6 |
| 27.5° | 795.0 | 802.4 | 790.6 | 781.7 | 772.8 | 781.7 | 821.6 | 845.3 | 889.7 | 972.7 | 934.2 |
| 30° | 809.8 | 817.2 | 814.2 | 800.9 | 783.2 | 780.2 | 808.3 | 837.9 | 880.9 | 978.6 | 934.2 |
| 32.5° | 832.0 | 842.4 | 832.0 | 836.4 | 815.7 | 802.4 | 812.8 | 839.4 | 889.7 | 999.3 | 935.6 |
| 35° | 857.2 | 866.1 | 869.0 | 858.7 | 854.2 | 829.0 | 835.0 | 848.3 | 898.6 | 1023.0 | 950.4 |
| 37.5° | 885.3 | 895.7 | 904.6 | 906.0 | 891.2 | 876.4 | 873.5 | 880.9 | 920.8 | 1064.4 | 966.7 |
| 40° | 904.6 | 910.5 | 928.2 | 943.0 | 947.5 | 926.8 | 925.3 | 925.3 | 960.8 | 1101.4 | 996.3 |
| 42.5° | 937.1 | 934.2 | 959.3 | 986.0 | 993.4 | 981.5 | 984.5 | 996.3 | 1017.1 | 1154.7 | 1043.7 |
| 45° | 953.4 | 950.4 | 980.1 | 1024.5 | 1058.5 | 1052.6 | 1055.6 | 1060.0 | 1079.2 | 1239.1 | 1123.7 |
| 47.5° | 975.6 | 978.6 | 1021.5 | 1071.8 | 1107.4 | 1128.1 | 1144.4 | 1142.9 | 1157.7 | 1325.0 | 1212.5 |
| 50° | 997.8 | 1003.7 | 1055.6 | 1108.9 | 1171.0 | 1206.6 | 1230.2 | 1246.5 | 1261.3 | 1415.3 | 1314.6 |
| 52.5° | 1040.8 | 1046.7 | 1104.4 | 1162.1 | 1242.1 | 1293.9 | 1353.1 | 1351.6 | 1353.1 | 1505.6 | 1416.8 |
| 55° | 1102.9 | 1104.4 | 1138.5 | 1205.1 | 1313.2 | 1407.9 | 1489.3 | 1498.2 | 1473.0 | 1618.1 | 1533.7 |
| 57.5° | 1174.0 | 1179.9 | 1209.5 | 1259.9 | 1369.4 | 1517.5 | 1641.8 | 1659.6 | 1591.5 | 1709.9 | 1640.3 |
| 60° | 1240.6 | 1245.1 | 1290.9 | 1348.7 | 1467.1 | 1655.1 | 1795.8 | 1816.5 | 1742.5 | 1822.4 | 1751.4 |
| 62.5° | 1165.1 | 1187.3 | 1268.7 | 1400.5 | 1638.8 | 1863.9 | 1991.2 | 2004.5 | 1889.0 | 1936.4 | 1869.8 |
| 65° | 932.7 | 947.5 | 1064.4 | 1277.6 | 1650.7 | 2242.9 | 2293.2 | 2257.7 | 2090.4 | 2083.0 | 2048.9 |
| 67.5° | 519.6 | 531.5 | 611.4 | 835.0 | 1390.1 | 2385.0 | 2943.1 | 2682.6 | 2402.8 | 2303.6 | 2291.7 |
| 70° | 410.1 | 413.0 | 423.4 | 469.3 | 771.3 | 2102.2 | 3455.4 | 3467.2 | 2913.5 | 2607.1 | 2343.5 |
| 72.5° | 333.1 | 331.6 | 362.7 | 402.7 | 456.0 | 1261.3 | 3294.0 | 3750.0 | 3304.3 | 2527.1 | 2041.5 |
| 75° | 254.6 | 259.1 | 299.0 | 356.8 | 417.5 | 593.7 | 2457.5 | 3085.2 | 3095.6 | 2355.4 | 1721.8 |
| 77.5° | 193.9 | 195.4 | 239.8 | 315.3 | 408.6 | 419.0 | 1603.3 | 2299.1 | 2309.5 | 1823.9 | 949.0 |
| 80° | 145.1 | 145.1 | 182.1 | 266.5 | 398.2 | 386.4 | 987.5 | 1594.4 | 1443.4 | 641.0 | 207.3 |
| 82.5° | 82.9 | 88.8 | 121.4 | 202.8 | 361.2 | 371.6 | 556.6 | 913.4 | 609.9 | 174.7 | 96.2 |
| 85° | 44.4 | 45.9 | 74.0 | 136.2 | 297.6 | 355.3 | 424.9 | 454.5 | 242.8 | 93.3 | 44.4 |
| 87.5° | 16.3 | 16.3 | 34.1 | 69.6 | 188.0 | 263.5 | 337.5 | 290.2 | 139.2 | 42.9 | 22.2 |
| 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° | 1107.4 | 1107.4 | 1107.4 | 1107.4 | 1107.4 | 1107.4 | 1107.4 | 1107.4 | 1107.4 | 1107.4 | 1107.4 |
| 2.5° | 1105.9 | 1100.0 | 1095.5 | 1100.0 | 1083.7 | 1076.3 | 1085.2 | 1080.7 | 1071.8 | 1067.4 | 1064.4 |
| 5° | 1083.7 | 1076.3 | 1068.9 | 1064.4 | 1046.7 | 1028.9 | 1020.0 | 1002.3 | 987.5 | 991.9 | 983.0 |
| 7.5° | 1060.0 | 1052.6 | 1030.4 | 1009.7 | 974.1 | 938.6 | 922.3 | 897.1 | 888.3 | 880.9 | 876.4 |
| 10° | 1030.4 | 1017.1 | 983.0 | 941.6 | 889.7 | 849.8 | 808.3 | 778.7 | 747.6 | 734.3 | 738.7 |
| 12.5° | 993.4 | 986.0 | 932.7 | 869.0 | 796.5 | 729.9 | 681.0 | 633.6 | 592.2 | 570.0 | 564.0 |
| 15° | 977.1 | 954.9 | 877.9 | 793.5 | 701.7 | 618.8 | 546.3 | 463.4 | 414.5 | 390.8 | 390.8 |
| 17.5° | 959.3 | 917.9 | 826.1 | 710.6 | 605.5 | 498.9 | 396.8 | 321.3 | 282.8 | 269.4 | 269.4 |
| 20° | 931.2 | 885.3 | 765.4 | 632.1 | 504.8 | 376.0 | 284.2 | 242.8 | 230.9 | 222.1 | 223.5 |
| 22.5° | 910.5 | 854.2 | 709.1 | 555.2 | 399.7 | 279.8 | 223.5 | 210.2 | 205.8 | 202.8 | 204.3 |
| 25° | 886.8 | 817.2 | 649.9 | 472.3 | 313.9 | 220.6 | 193.9 | 188.0 | 191.0 | 192.5 | 192.5 |
| 27.5° | 867.5 | 786.1 | 589.2 | 383.4 | 236.9 | 186.5 | 174.7 | 173.2 | 179.1 | 182.1 | 183.6 |
| 30° | 854.2 | 758.0 | 530.0 | 302.0 | 189.5 | 165.8 | 159.9 | 159.9 | 167.3 | 170.3 | 171.7 |
| 32.5° | 840.9 | 734.3 | 466.3 | 230.9 | 161.4 | 148.0 | 146.6 | 148.0 | 152.5 | 152.5 | 154.0 |
| 35° | 845.3 | 712.1 | 405.6 | 186.5 | 145.1 | 136.2 | 136.2 | 136.2 | 137.7 | 139.2 | 139.2 |
| 37.5° | 854.2 | 706.2 | 340.5 | 156.9 | 133.2 | 127.3 | 127.3 | 125.8 | 127.3 | 125.8 | 127.3 |
| 40° | 863.1 | 697.3 | 281.3 | 139.2 | 125.8 | 121.4 | 119.9 | 117.0 | 115.5 | 115.5 | 117.0 |
| 42.5° | 900.1 | 709.1 | 230.9 | 127.3 | 119.9 | 117.0 | 112.5 | 109.6 | 108.1 | 108.1 | 108.1 |
| 45° | 947.5 | 731.3 | 191.0 | 121.4 | 115.5 | 108.1 | 105.1 | 103.6 | 100.7 | 102.2 | 103.6 |
| 47.5° | 1018.5 | 765.4 | 167.3 | 117.0 | 111.0 | 102.2 | 99.2 | 96.2 | 96.2 | 99.2 | 99.2 |
| 50° | 1111.8 | 821.6 | 152.5 | 112.5 | 106.6 | 97.7 | 93.3 | 91.8 | 91.8 | 96.2 | 96.2 |
| 52.5° | 1212.5 | 886.8 | 146.6 | 111.0 | 102.2 | 93.3 | 88.8 | 87.3 | 87.3 | 93.3 | 93.3 |
| 55° | 1313.2 | 966.7 | 151.0 | 111.0 | 99.2 | 88.8 | 84.4 | 81.4 | 82.9 | 87.3 | 87.3 |
| 57.5° | 1424.2 | 1052.6 | 173.2 | 111.0 | 96.2 | 87.3 | 81.4 | 77.0 | 78.5 | 79.9 | 79.9 |
| 60° | 1545.6 | 1165.1 | 211.7 | 111.0 | 94.7 | 84.4 | 77.0 | 71.1 | 71.1 | 72.5 | 72.5 |
| 62.5° | 1668.5 | 1276.1 | 266.5 | 112.5 | 96.2 | 82.9 | 71.1 | 65.1 | 63.7 | 65.1 | 65.1 |
| 65° | 1829.8 | 1453.8 | 321.3 | 112.5 | 100.7 | 79.9 | 66.6 | 59.2 | 57.7 | 57.7 | 59.2 |
| 67.5° | 2056.3 | 1581.1 | 248.7 | 108.1 | 103.6 | 79.9 | 62.2 | 54.8 | 51.8 | 51.8 | 51.8 |
| 70° | 1936.4 | 1333.9 | 158.4 | 100.7 | 99.2 | 82.9 | 59.2 | 50.3 | 47.4 | 45.9 | 45.9 |
| 72.5° | 1658.1 | 1067.4 | 127.3 | 94.7 | 91.8 | 81.4 | 56.3 | 47.4 | 42.9 | 41.5 | 41.5 |
| 75° | 1329.4 | 842.4 | 111.0 | 85.9 | 79.9 | 68.1 | 51.8 | 42.9 | 40.0 | 37.0 | 37.0 |
| 77.5° | 651.4 | 352.3 | 84.4 | 75.5 | 68.1 | 51.8 | 45.9 | 40.0 | 35.5 | 32.6 | 32.6 |
| 80° | 162.8 | 122.9 | 62.2 | 59.2 | 50.3 | 40.0 | 37.0 | 34.1 | 31.1 | 28.1 | 28.1 |
| 82.5° | 87.3 | 72.5 | 44.4 | 40.0 | 34.1 | 28.1 | 28.1 | 26.6 | 25.2 | 22.2 | 20.7 |
| 85° | 44.4 | 42.9 | 29.6 | 26.6 | 22.2 | 17.8 | 19.2 | 19.2 | 17.8 | 13.3 | 13.3 |
| 87.5° | 23.7 | 23.7 | 14.8 | 11.8 | 10.4 | 8.9 | 8.9 | 8.9 | 7.4 | 5.9 | 5.9 |
| 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)