

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: P675523

Luminaire Tested: **CCW-SA-1C-727-U-SL3**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675523
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-727-U-SL3
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
SL3 distribution lens
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

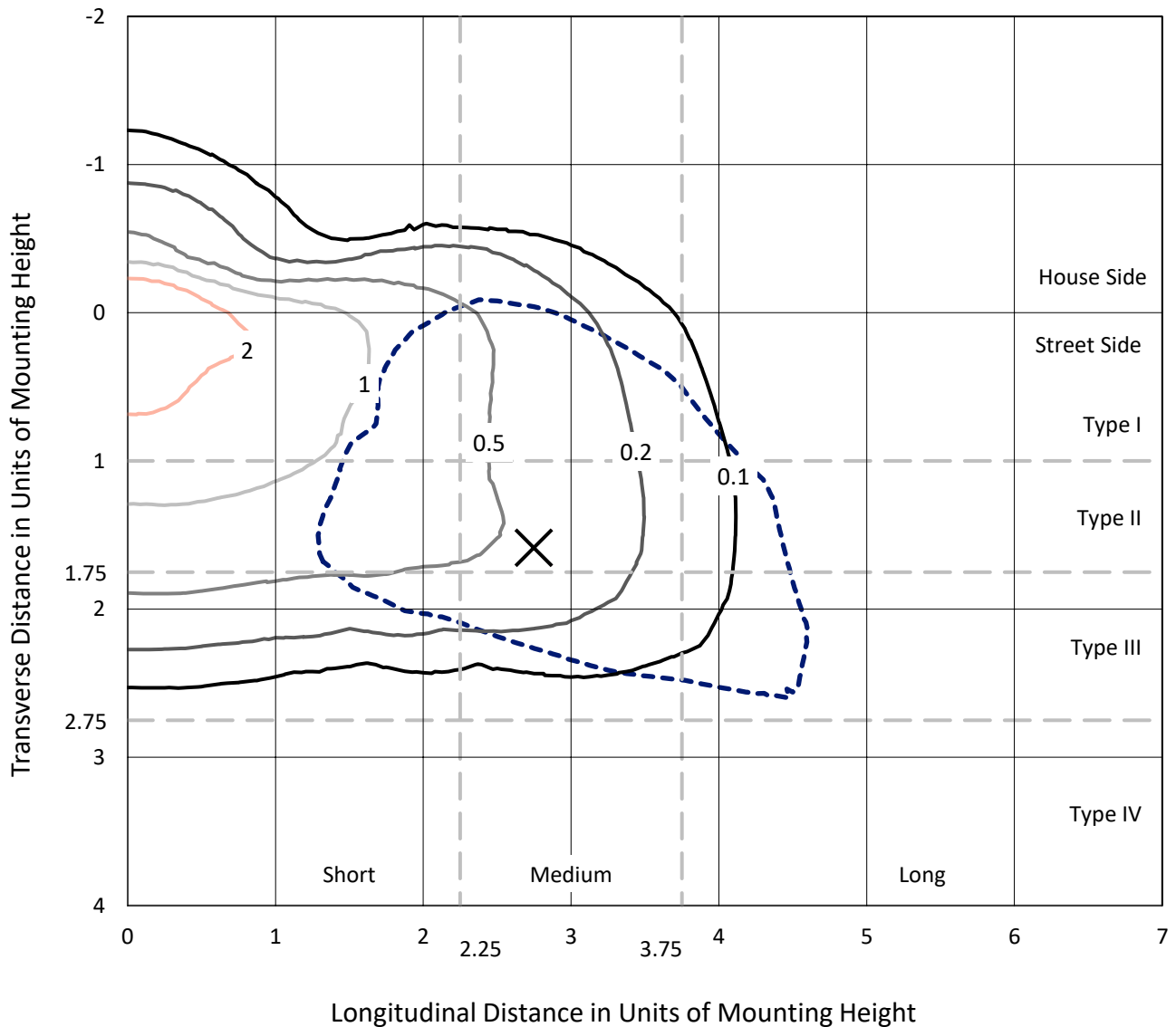
Lumens per Lamp: N/A
Luminaire Lumens: 3738.5 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

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

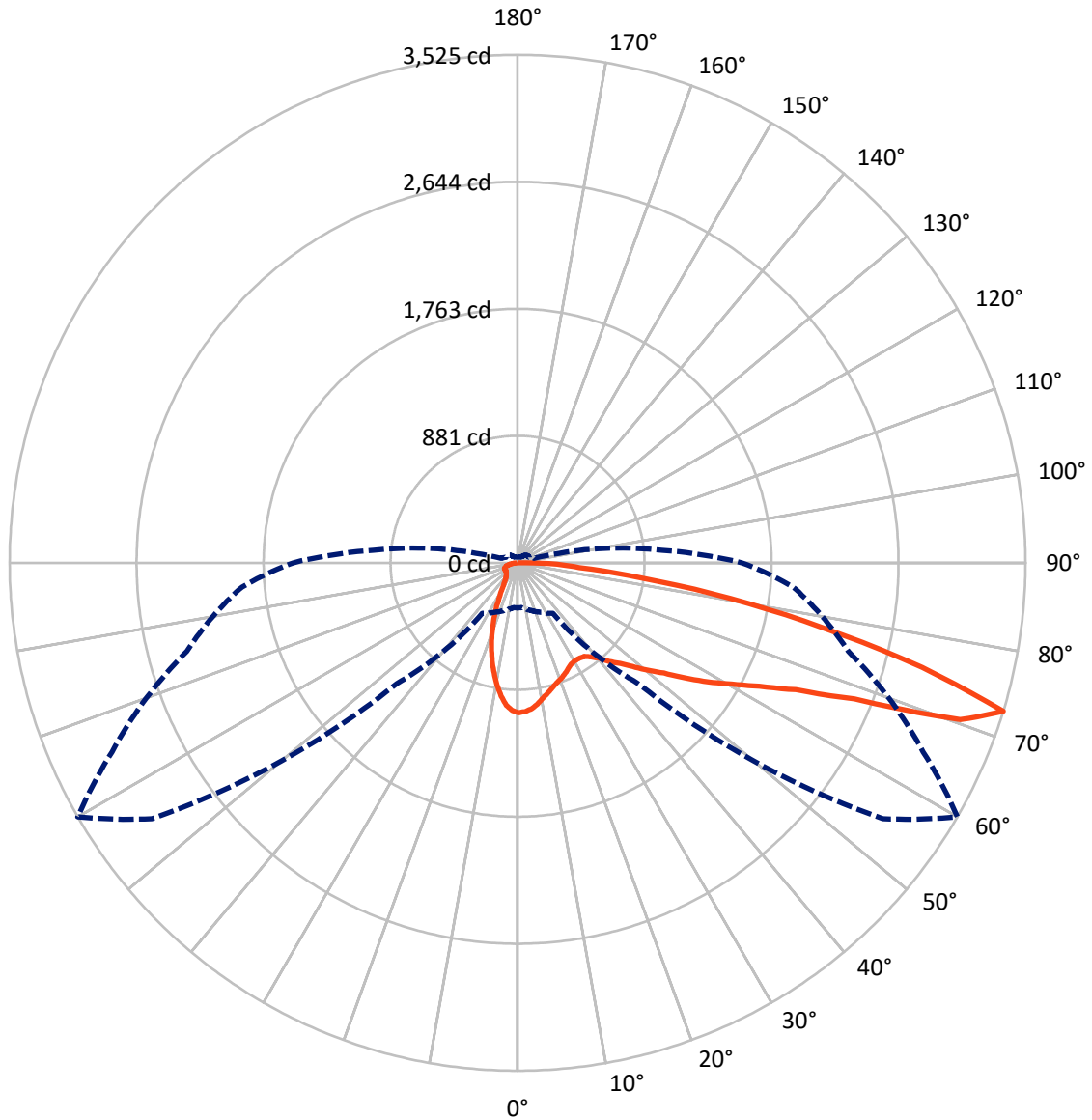
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.6 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 | 642.2 | 0.0 | 642.2 |
| | % Fixture | 17.2 | 0.0 | 17.2 |
| Street Side | Lumens | 3096.3 | 0.0 | 3096.3 |
| | % Fixture | 82.8 | 0.0 | 82.8 |
| Total | Lumens | 3738.5 | 0.0 | 3738.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 90.2 | 2.4 |
| 10°-20° | 204.6 | 5.5 |
| 20°-30° | 261.9 | 7.0 |
| 30°-40° | 335.0 | 9.0 |
| 40°-50° | 459.4 | 12.3 |
| 50°-60° | 664.5 | 17.8 |
| 60°-70° | 911.6 | 24.4 |
| 70°-80° | 684.1 | 18.3 |
| 80°-90° | 127.2 | 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° | 3738.5 | 100.0 |
| 0°-180° | 3738.5 | 100.0 |

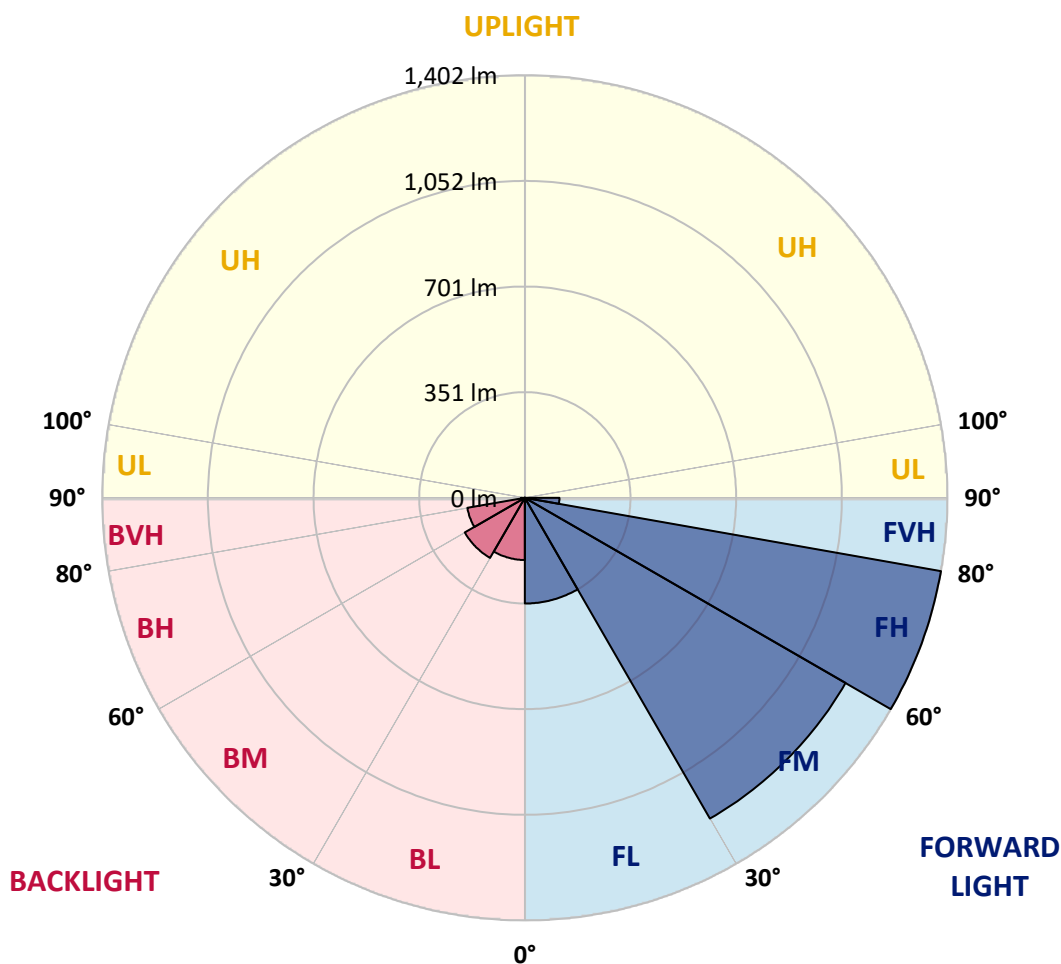


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 350.5 | 9.4 | | | |
| FM (30°-60°) | 1228.8 | 32.9 | | | |
| FH (60°-80°) | 1402.2 | 37.5 | | | G1/1800 |
| FVH (80°-90°) | 114.8 | 3.1 | | | G2/225 |
| BL (0°-30°) | 206.2 | 5.5 | B1/500 | | |
| BM (30°-60°) | 230.1 | 6.2 | B1/1000 | | |
| BH (60°-80°) | 193.5 | 5.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 12.4 | 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° | 1041.0 | 1041.0 | 1041.0 | 1041.0 | 1041.0 | 1041.0 | 1041.0 | 1041.0 | 1041.0 | 1041.0 | 1041.0 |
| 2.5° | 1018.7 | 1028.5 | 1031.3 | 1031.3 | 1039.6 | 1029.9 | 1043.8 | 1032.7 | 1035.4 | 1039.6 | 1036.8 |
| 5° | 970.0 | 986.7 | 977.0 | 995.1 | 988.1 | 1000.6 | 1017.3 | 1017.3 | 1013.2 | 1021.5 | 1014.6 |
| 7.5° | 922.7 | 917.1 | 933.8 | 933.8 | 945.0 | 961.7 | 975.6 | 989.5 | 990.9 | 993.7 | 992.3 |
| 10° | 858.7 | 865.6 | 874.0 | 885.1 | 899.0 | 915.7 | 945.0 | 956.1 | 958.9 | 975.6 | 971.4 |
| 12.5° | 805.8 | 815.5 | 821.1 | 843.4 | 855.9 | 879.6 | 913.0 | 928.3 | 929.7 | 953.3 | 953.3 |
| 15° | 766.8 | 772.4 | 784.9 | 793.3 | 821.1 | 854.5 | 886.5 | 900.4 | 915.7 | 940.8 | 933.8 |
| 17.5° | 740.4 | 747.4 | 752.9 | 764.1 | 790.5 | 818.3 | 868.4 | 876.8 | 894.9 | 931.1 | 922.7 |
| 20° | 725.1 | 726.5 | 734.8 | 741.8 | 765.4 | 791.9 | 836.4 | 858.7 | 882.3 | 914.4 | 906.0 |
| 22.5° | 727.9 | 722.3 | 720.9 | 730.7 | 734.8 | 759.9 | 814.2 | 837.8 | 871.2 | 908.8 | 894.9 |
| 25° | 733.4 | 734.8 | 732.0 | 723.7 | 725.1 | 747.4 | 783.5 | 814.2 | 851.7 | 907.4 | 879.6 |
| 27.5° | 747.4 | 754.3 | 743.2 | 734.8 | 726.5 | 734.8 | 772.4 | 794.7 | 836.4 | 914.4 | 878.2 |
| 30° | 761.3 | 768.2 | 765.4 | 752.9 | 736.2 | 733.4 | 759.9 | 787.7 | 828.1 | 919.9 | 878.2 |
| 32.5° | 782.1 | 791.9 | 782.1 | 786.3 | 766.8 | 754.3 | 764.1 | 789.1 | 836.4 | 939.4 | 879.6 |
| 35° | 805.8 | 814.2 | 816.9 | 807.2 | 803.0 | 779.4 | 784.9 | 797.5 | 844.8 | 961.7 | 893.5 |
| 37.5° | 832.2 | 842.0 | 850.3 | 851.7 | 837.8 | 823.9 | 821.1 | 828.1 | 865.6 | 1000.6 | 908.8 |
| 40° | 850.3 | 855.9 | 872.6 | 886.5 | 890.7 | 871.2 | 869.8 | 869.8 | 903.2 | 1035.4 | 936.6 |
| 42.5° | 881.0 | 878.2 | 901.8 | 926.9 | 933.8 | 922.7 | 925.5 | 936.6 | 956.1 | 1085.5 | 981.2 |
| 45° | 896.3 | 893.5 | 921.3 | 963.1 | 995.1 | 989.5 | 992.3 | 996.5 | 1014.6 | 1164.9 | 1056.3 |
| 47.5° | 917.1 | 919.9 | 960.3 | 1007.6 | 1041.0 | 1060.5 | 1075.8 | 1074.4 | 1088.3 | 1245.6 | 1139.8 |
| 50° | 938.0 | 943.6 | 992.3 | 1042.4 | 1100.8 | 1134.2 | 1156.5 | 1171.8 | 1185.7 | 1330.5 | 1235.8 |
| 52.5° | 978.4 | 983.9 | 1038.2 | 1092.5 | 1167.6 | 1216.4 | 1272.0 | 1270.6 | 1272.0 | 1415.4 | 1331.9 |
| 55° | 1036.8 | 1038.2 | 1070.2 | 1132.9 | 1234.5 | 1323.5 | 1400.1 | 1408.4 | 1384.8 | 1521.1 | 1441.8 |
| 57.5° | 1103.6 | 1109.2 | 1137.0 | 1184.3 | 1287.3 | 1426.5 | 1543.4 | 1560.1 | 1496.1 | 1607.4 | 1542.0 |
| 60° | 1166.3 | 1170.4 | 1213.6 | 1267.9 | 1379.2 | 1555.9 | 1688.1 | 1707.6 | 1638.0 | 1713.2 | 1646.4 |
| 62.5° | 1095.3 | 1116.2 | 1192.7 | 1316.6 | 1540.6 | 1752.2 | 1871.9 | 1884.4 | 1775.8 | 1820.4 | 1757.7 |
| 65° | 876.8 | 890.7 | 1000.6 | 1201.0 | 1551.8 | 2108.4 | 2155.8 | 2122.4 | 1965.1 | 1958.1 | 1926.1 |
| 67.5° | 488.5 | 499.6 | 574.8 | 784.9 | 1306.8 | 2242.1 | 2766.7 | 2521.8 | 2258.8 | 2165.5 | 2154.4 |
| 70° | 385.5 | 388.3 | 398.0 | 441.2 | 725.1 | 1976.2 | 3248.3 | 3259.4 | 2738.9 | 2450.8 | 2203.1 |
| 72.5° | 313.1 | 311.7 | 341.0 | 378.5 | 428.6 | 1185.7 | 3096.6 | 3525.2 | 3106.3 | 2375.7 | 1919.2 |
| 75° | 239.4 | 243.6 | 281.1 | 335.4 | 392.5 | 558.1 | 2310.2 | 2900.3 | 2910.1 | 2214.2 | 1618.6 |
| 77.5° | 182.3 | 183.7 | 225.5 | 296.4 | 384.1 | 393.9 | 1507.2 | 2161.3 | 2171.1 | 1714.6 | 892.1 |
| 80° | 136.4 | 136.4 | 171.2 | 250.5 | 374.4 | 363.2 | 928.3 | 1498.9 | 1356.9 | 602.6 | 194.8 |
| 82.5° | 77.9 | 83.5 | 114.1 | 190.7 | 339.6 | 349.3 | 523.3 | 858.7 | 573.4 | 164.2 | 90.5 |
| 85° | 41.8 | 43.1 | 69.6 | 128.0 | 279.7 | 334.0 | 399.4 | 427.3 | 228.2 | 87.7 | 41.8 |
| 87.5° | 15.3 | 15.3 | 32.0 | 65.4 | 176.7 | 247.7 | 317.3 | 272.8 | 130.8 | 40.4 | 20.9 |
| 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° | 1041.0 | 1041.0 | 1041.0 | 1041.0 | 1041.0 | 1041.0 | 1041.0 | 1041.0 | 1041.0 | 1041.0 | 1041.0 |
| 2.5° | 1039.6 | 1034.0 | 1029.9 | 1034.0 | 1018.7 | 1011.8 | 1020.1 | 1016.0 | 1007.6 | 1003.4 | 1000.6 |
| 5° | 1018.7 | 1011.8 | 1004.8 | 1000.6 | 983.9 | 967.2 | 958.9 | 942.2 | 928.3 | 932.4 | 924.1 |
| 7.5° | 996.5 | 989.5 | 968.6 | 949.1 | 915.7 | 882.3 | 867.0 | 843.4 | 835.0 | 828.1 | 823.9 |
| 10° | 968.6 | 956.1 | 924.1 | 885.1 | 836.4 | 798.8 | 759.9 | 732.0 | 702.8 | 690.3 | 694.5 |
| 12.5° | 933.8 | 926.9 | 876.8 | 816.9 | 748.7 | 686.1 | 640.2 | 595.7 | 556.7 | 535.8 | 530.2 |
| 15° | 918.5 | 897.7 | 825.3 | 746.0 | 659.7 | 581.7 | 513.5 | 435.6 | 389.7 | 367.4 | 367.4 |
| 17.5° | 901.8 | 862.9 | 776.6 | 668.0 | 569.2 | 469.0 | 373.0 | 302.0 | 265.8 | 253.3 | 253.3 |
| 20° | 875.4 | 832.2 | 719.5 | 594.3 | 474.6 | 353.5 | 267.2 | 228.2 | 217.1 | 208.8 | 210.1 |
| 22.5° | 855.9 | 803.0 | 666.6 | 521.9 | 375.8 | 263.0 | 210.1 | 197.6 | 193.4 | 190.7 | 192.1 |
| 25° | 833.6 | 768.2 | 611.0 | 444.0 | 295.0 | 207.4 | 182.3 | 176.7 | 179.5 | 180.9 | 180.9 |
| 27.5° | 815.5 | 739.0 | 553.9 | 360.5 | 222.7 | 175.4 | 164.2 | 162.8 | 168.4 | 171.2 | 172.6 |
| 30° | 803.0 | 712.6 | 498.2 | 283.9 | 178.1 | 155.9 | 150.3 | 150.3 | 157.3 | 160.0 | 161.4 |
| 32.5° | 790.5 | 690.3 | 438.4 | 217.1 | 151.7 | 139.2 | 137.8 | 139.2 | 143.3 | 143.3 | 144.7 |
| 35° | 794.7 | 669.4 | 381.3 | 175.4 | 136.4 | 128.0 | 128.0 | 128.0 | 129.4 | 130.8 | 130.8 |
| 37.5° | 803.0 | 663.8 | 320.1 | 147.5 | 125.3 | 119.7 | 119.7 | 118.3 | 119.7 | 118.3 | 119.7 |
| 40° | 811.4 | 655.5 | 264.4 | 130.8 | 118.3 | 114.1 | 112.7 | 109.9 | 108.6 | 108.6 | 109.9 |
| 42.5° | 846.2 | 666.6 | 217.1 | 119.7 | 112.7 | 109.9 | 105.8 | 103.0 | 101.6 | 101.6 | 101.6 |
| 45° | 890.7 | 687.5 | 179.5 | 114.1 | 108.6 | 101.6 | 98.8 | 97.4 | 94.6 | 96.0 | 97.4 |
| 47.5° | 957.5 | 719.5 | 157.3 | 109.9 | 104.4 | 96.0 | 93.2 | 90.5 | 90.5 | 93.2 | 93.2 |
| 50° | 1045.2 | 772.4 | 143.3 | 105.8 | 100.2 | 91.9 | 87.7 | 86.3 | 86.3 | 90.5 | 90.5 |
| 52.5° | 1139.8 | 833.6 | 137.8 | 104.4 | 96.0 | 87.7 | 83.5 | 82.1 | 82.1 | 87.7 | 87.7 |
| 55° | 1234.5 | 908.8 | 142.0 | 104.4 | 93.2 | 83.5 | 79.3 | 76.5 | 77.9 | 82.1 | 82.1 |
| 57.5° | 1338.8 | 989.5 | 162.8 | 104.4 | 90.5 | 82.1 | 76.5 | 72.4 | 73.8 | 75.2 | 75.2 |
| 60° | 1452.9 | 1095.3 | 199.0 | 104.4 | 89.1 | 79.3 | 72.4 | 66.8 | 66.8 | 68.2 | 68.2 |
| 62.5° | 1568.5 | 1199.7 | 250.5 | 105.8 | 90.5 | 77.9 | 66.8 | 61.2 | 59.8 | 61.2 | 61.2 |
| 65° | 1720.2 | 1366.7 | 302.0 | 105.8 | 94.6 | 75.2 | 62.6 | 55.7 | 54.3 | 54.3 | 55.7 |
| 67.5° | 1933.1 | 1486.4 | 233.8 | 101.6 | 97.4 | 75.2 | 58.5 | 51.5 | 48.7 | 48.7 | 48.7 |
| 70° | 1820.4 | 1253.9 | 148.9 | 94.6 | 93.2 | 77.9 | 55.7 | 47.3 | 44.5 | 43.1 | 43.1 |
| 72.5° | 1558.7 | 1003.4 | 119.7 | 89.1 | 86.3 | 76.5 | 52.9 | 44.5 | 40.4 | 39.0 | 39.0 |
| 75° | 1249.8 | 791.9 | 104.4 | 80.7 | 75.2 | 64.0 | 48.7 | 40.4 | 37.6 | 34.8 | 34.8 |
| 77.5° | 612.4 | 331.2 | 79.3 | 71.0 | 64.0 | 48.7 | 43.1 | 37.6 | 33.4 | 30.6 | 30.6 |
| 80° | 153.1 | 115.5 | 58.5 | 55.7 | 47.3 | 37.6 | 34.8 | 32.0 | 29.2 | 26.4 | 26.4 |
| 82.5° | 82.1 | 68.2 | 41.8 | 37.6 | 32.0 | 26.4 | 26.4 | 25.1 | 23.7 | 20.9 | 19.5 |
| 85° | 41.8 | 40.4 | 27.8 | 25.1 | 20.9 | 16.7 | 18.1 | 18.1 | 16.7 | 12.5 | 12.5 |
| 87.5° | 22.3 | 22.3 | 13.9 | 11.1 | 9.7 | 8.4 | 8.4 | 8.4 | 7.0 | 5.6 | 5.6 |
| 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)