

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: P671436

Luminaire Tested: **CCP-SA-1C-830-U-SL3**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P671436
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1C-830-U-SL3
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @615mA w/ SL3 distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

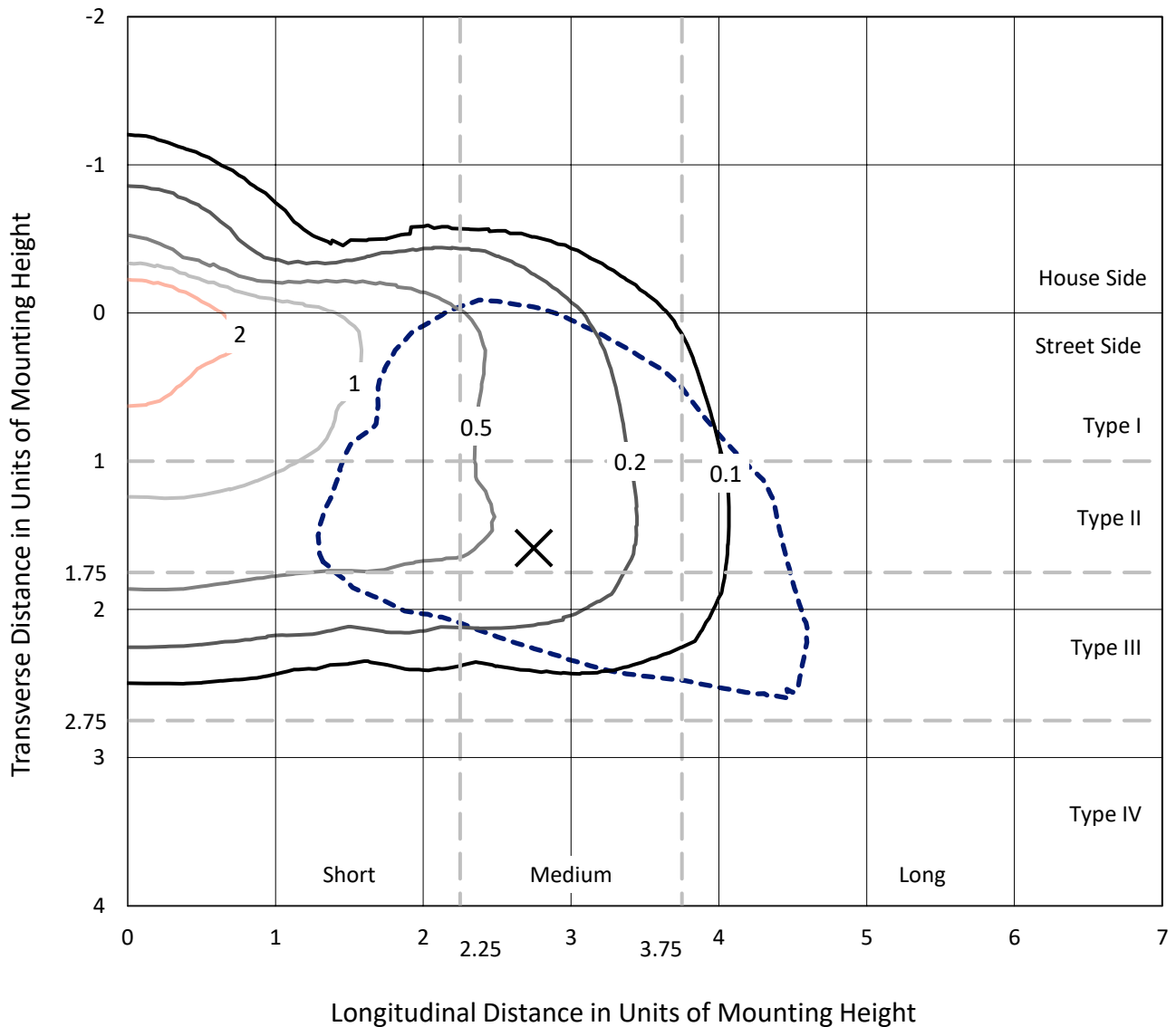
Lumens per Lamp: N/A
Luminaire Lumens: 3552.1 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

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

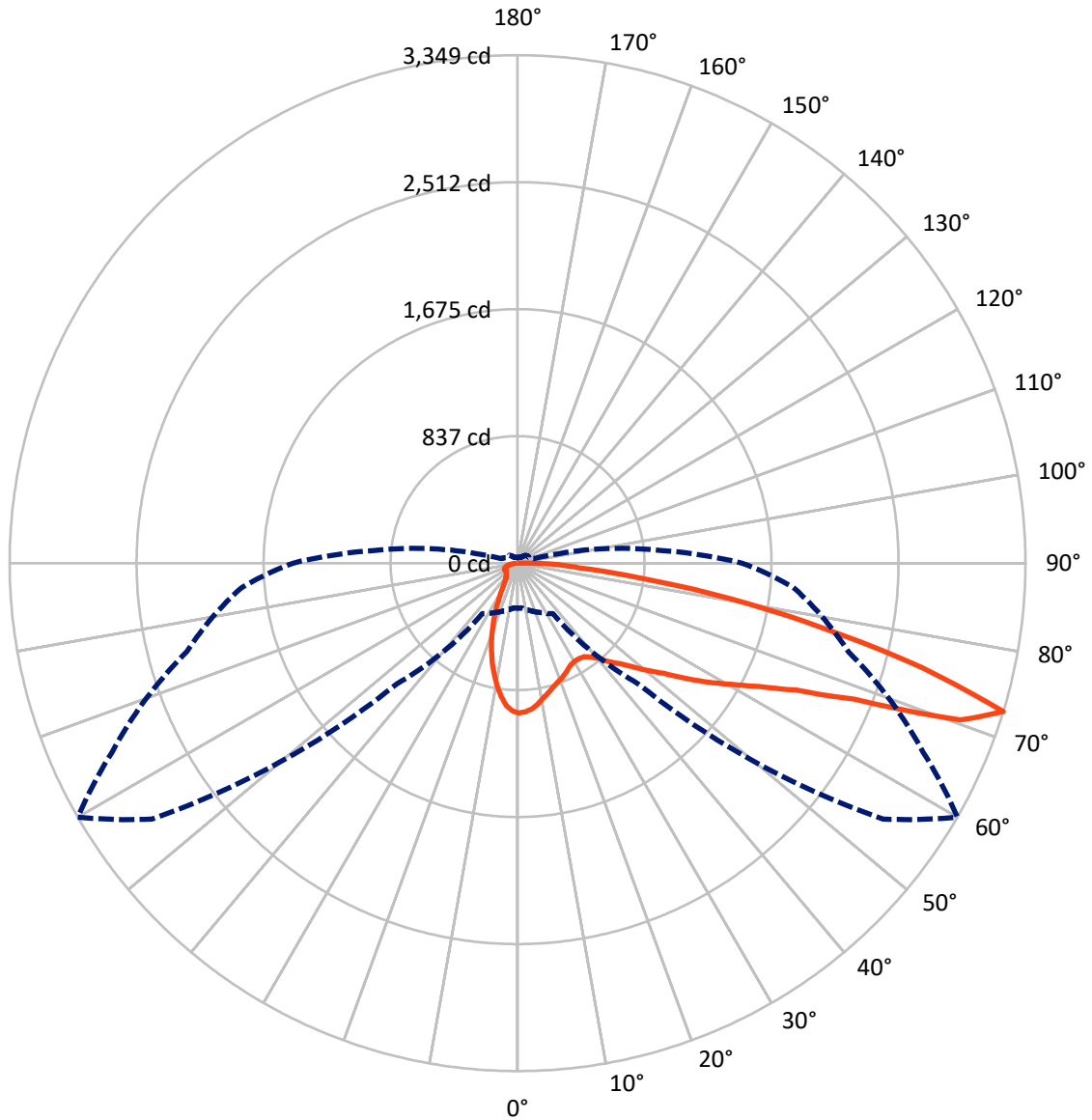
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.4 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 | 610.2 | 0.0 | 610.2 |
| | % Fixture | 17.2 | 0.0 | 17.2 |
| Street Side | Lumens | 2942.0 | 0.0 | 2942.0 |
| | % Fixture | 82.8 | 0.0 | 82.8 |
| Total | Lumens | 3552.1 | 0.0 | 3552.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 85.7 | 2.4 |
| 10°-20° | 194.4 | 5.5 |
| 20°-30° | 248.8 | 7.0 |
| 30°-40° | 318.3 | 9.0 |
| 40°-50° | 436.5 | 12.3 |
| 50°-60° | 631.4 | 17.8 |
| 60°-70° | 866.2 | 24.4 |
| 70°-80° | 650.0 | 18.3 |
| 80°-90° | 120.8 | 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° | 3552.1 | 100.0 |
| 0°-180° | 3552.1 | 100.0 |



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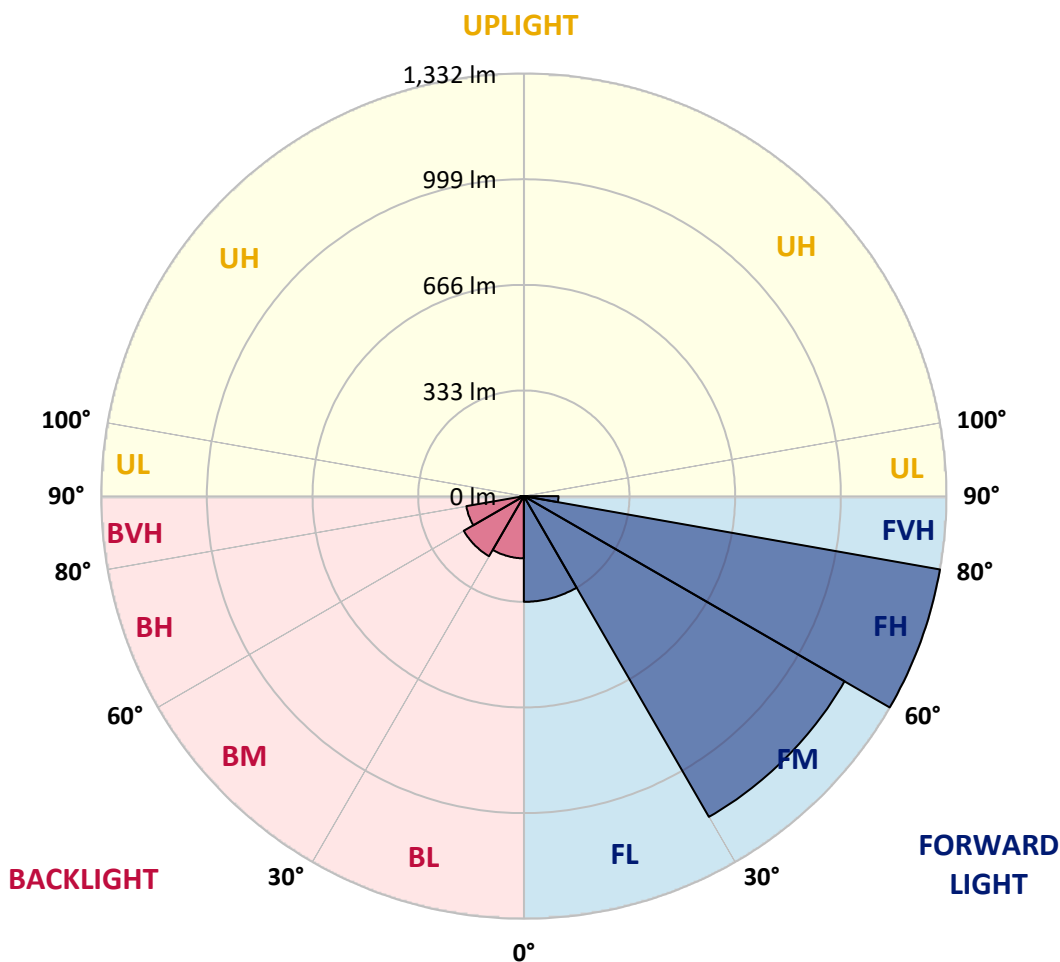
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 333.1 | 9.4 | | | |
| FM (30°-60°) | 1167.6 | 32.9 | | | |
| FH (60°-80°) | 1332.3 | 37.5 | | | G1/1800 |
| FVH (80°-90°) | 109.0 | 3.1 | | | G2/225 |
| BL (0°-30°) | 195.9 | 5.5 | B1/500 | | |
| BM (30°-60°) | 218.7 | 6.2 | B0/220 | | |
| BH (60°-80°) | 183.9 | 5.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 11.8 | 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° | 989.1 | 989.1 | 989.1 | 989.1 | 989.1 | 989.1 | 989.1 | 989.1 | 989.1 | 989.1 | 989.1 |
| 2.5° | 967.9 | 977.2 | 979.8 | 979.8 | 987.8 | 978.5 | 991.7 | 981.2 | 983.8 | 987.8 | 985.1 |
| 5° | 921.7 | 937.5 | 928.3 | 945.5 | 938.8 | 950.7 | 966.6 | 966.6 | 962.6 | 970.6 | 964.0 |
| 7.5° | 876.7 | 871.4 | 887.3 | 887.3 | 897.9 | 913.7 | 926.9 | 940.2 | 941.5 | 944.1 | 942.8 |
| 10° | 815.9 | 822.5 | 830.4 | 841.0 | 854.2 | 870.1 | 897.9 | 908.4 | 911.1 | 926.9 | 923.0 |
| 12.5° | 765.6 | 774.9 | 780.2 | 801.3 | 813.2 | 835.7 | 867.4 | 882.0 | 883.3 | 905.8 | 905.8 |
| 15° | 728.6 | 733.9 | 745.8 | 753.7 | 780.2 | 811.9 | 842.3 | 855.5 | 870.1 | 893.9 | 887.3 |
| 17.5° | 703.5 | 710.1 | 715.4 | 726.0 | 751.1 | 777.5 | 825.1 | 833.1 | 850.3 | 884.6 | 876.7 |
| 20° | 688.9 | 690.3 | 698.2 | 704.8 | 727.3 | 752.4 | 794.7 | 815.9 | 838.4 | 868.8 | 860.8 |
| 22.5° | 691.6 | 686.3 | 685.0 | 694.2 | 698.2 | 722.0 | 773.6 | 796.0 | 827.8 | 863.5 | 850.3 |
| 25° | 696.9 | 698.2 | 695.5 | 687.6 | 688.9 | 710.1 | 744.5 | 773.6 | 809.3 | 862.2 | 835.7 |
| 27.5° | 710.1 | 716.7 | 706.1 | 698.2 | 690.3 | 698.2 | 733.9 | 755.0 | 794.7 | 868.8 | 834.4 |
| 30° | 723.3 | 729.9 | 727.3 | 715.4 | 699.5 | 696.9 | 722.0 | 748.4 | 786.8 | 874.1 | 834.4 |
| 32.5° | 743.1 | 752.4 | 743.1 | 747.1 | 728.6 | 716.7 | 726.0 | 749.8 | 794.7 | 892.6 | 835.7 |
| 35° | 765.6 | 773.6 | 776.2 | 766.9 | 763.0 | 740.5 | 745.8 | 757.7 | 802.6 | 913.7 | 848.9 |
| 37.5° | 790.7 | 800.0 | 807.9 | 809.3 | 796.0 | 782.8 | 780.2 | 786.8 | 822.5 | 950.7 | 863.5 |
| 40° | 807.9 | 813.2 | 829.1 | 842.3 | 846.3 | 827.8 | 826.5 | 826.5 | 858.2 | 983.8 | 889.9 |
| 42.5° | 837.0 | 834.4 | 856.9 | 880.7 | 887.3 | 876.7 | 879.3 | 889.9 | 908.4 | 1031.4 | 932.2 |
| 45° | 851.6 | 848.9 | 875.4 | 915.0 | 945.5 | 940.2 | 942.8 | 946.8 | 964.0 | 1106.8 | 1003.6 |
| 47.5° | 871.4 | 874.1 | 912.4 | 957.4 | 989.1 | 1007.6 | 1022.2 | 1020.8 | 1034.1 | 1183.5 | 1083.0 |
| 50° | 891.2 | 896.5 | 942.8 | 990.4 | 1046.0 | 1077.7 | 1098.8 | 1113.4 | 1126.6 | 1264.1 | 1174.2 |
| 52.5° | 929.6 | 934.9 | 986.5 | 1038.0 | 1109.4 | 1155.7 | 1208.6 | 1207.3 | 1208.6 | 1344.8 | 1265.5 |
| 55° | 985.1 | 986.5 | 1016.9 | 1076.4 | 1172.9 | 1257.5 | 1330.3 | 1338.2 | 1315.7 | 1445.3 | 1369.9 |
| 57.5° | 1048.6 | 1053.9 | 1080.3 | 1125.3 | 1223.1 | 1355.4 | 1466.5 | 1482.3 | 1421.5 | 1527.3 | 1465.1 |
| 60° | 1108.1 | 1112.1 | 1153.1 | 1204.6 | 1310.4 | 1478.4 | 1604.0 | 1622.5 | 1556.4 | 1627.8 | 1564.3 |
| 62.5° | 1040.7 | 1060.5 | 1133.2 | 1250.9 | 1463.8 | 1664.8 | 1778.5 | 1790.4 | 1687.3 | 1729.6 | 1670.1 |
| 65° | 833.1 | 846.3 | 950.7 | 1141.2 | 1474.4 | 2003.3 | 2048.3 | 2016.5 | 1867.1 | 1860.5 | 1830.1 |
| 67.5° | 464.1 | 474.7 | 546.1 | 745.8 | 1241.7 | 2130.3 | 2628.8 | 2396.0 | 2146.1 | 2057.5 | 2047.0 |
| 70° | 366.3 | 368.9 | 378.2 | 419.2 | 688.9 | 1877.7 | 3086.3 | 3096.9 | 2602.3 | 2328.6 | 2093.2 |
| 72.5° | 297.5 | 296.2 | 324.0 | 359.7 | 407.3 | 1126.6 | 2942.2 | 3349.4 | 2951.4 | 2257.2 | 1823.5 |
| 75° | 227.4 | 231.4 | 267.1 | 318.7 | 372.9 | 530.3 | 2195.1 | 2755.7 | 2765.0 | 2103.8 | 1537.9 |
| 77.5° | 173.2 | 174.5 | 214.2 | 281.7 | 365.0 | 374.2 | 1432.1 | 2053.6 | 2062.8 | 1629.1 | 847.6 |
| 80° | 129.6 | 129.6 | 162.6 | 238.0 | 355.7 | 345.1 | 882.0 | 1424.1 | 1289.3 | 572.6 | 185.1 |
| 82.5° | 74.0 | 79.3 | 108.4 | 181.2 | 322.6 | 331.9 | 497.2 | 815.9 | 544.8 | 156.0 | 86.0 |
| 85° | 39.7 | 41.0 | 66.1 | 121.7 | 265.8 | 317.4 | 379.5 | 406.0 | 216.9 | 83.3 | 39.7 |
| 87.5° | 14.5 | 14.5 | 30.4 | 62.1 | 167.9 | 235.4 | 301.5 | 259.2 | 124.3 | 38.3 | 19.8 |
| 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° | 989.1 | 989.1 | 989.1 | 989.1 | 989.1 | 989.1 | 989.1 | 989.1 | 989.1 | 989.1 | 989.1 |
| 2.5° | 987.8 | 982.5 | 978.5 | 982.5 | 967.9 | 961.3 | 969.3 | 965.3 | 957.4 | 953.4 | 950.7 |
| 5° | 967.9 | 961.3 | 954.7 | 950.7 | 934.9 | 919.0 | 911.1 | 895.2 | 882.0 | 886.0 | 878.0 |
| 7.5° | 946.8 | 940.2 | 920.3 | 901.8 | 870.1 | 838.4 | 823.8 | 801.3 | 793.4 | 786.8 | 782.8 |
| 10° | 920.3 | 908.4 | 878.0 | 841.0 | 794.7 | 759.0 | 722.0 | 695.5 | 667.8 | 655.9 | 659.8 |
| 12.5° | 887.3 | 880.7 | 833.1 | 776.2 | 711.4 | 651.9 | 608.3 | 566.0 | 528.9 | 509.1 | 503.8 |
| 15° | 872.7 | 852.9 | 784.1 | 708.8 | 626.8 | 552.7 | 487.9 | 413.9 | 370.2 | 349.1 | 349.1 |
| 17.5° | 856.9 | 819.8 | 737.9 | 634.7 | 540.8 | 445.6 | 354.4 | 286.9 | 252.6 | 240.7 | 240.7 |
| 20° | 831.7 | 790.7 | 683.6 | 564.6 | 450.9 | 335.9 | 253.9 | 216.9 | 206.3 | 198.3 | 199.7 |
| 22.5° | 813.2 | 763.0 | 633.4 | 495.9 | 357.0 | 249.9 | 199.7 | 187.8 | 183.8 | 181.2 | 182.5 |
| 25° | 792.1 | 729.9 | 580.5 | 421.8 | 280.3 | 197.0 | 173.2 | 167.9 | 170.6 | 171.9 | 171.9 |
| 27.5° | 774.9 | 702.2 | 526.3 | 342.5 | 211.6 | 166.6 | 156.0 | 154.7 | 160.0 | 162.6 | 164.0 |
| 30° | 763.0 | 677.0 | 473.4 | 269.8 | 169.3 | 148.1 | 142.8 | 142.8 | 149.4 | 152.1 | 153.4 |
| 32.5° | 751.1 | 655.9 | 416.5 | 206.3 | 144.1 | 132.2 | 130.9 | 132.2 | 136.2 | 136.2 | 137.5 |
| 35° | 755.0 | 636.0 | 362.3 | 166.6 | 129.6 | 121.7 | 121.7 | 121.7 | 123.0 | 124.3 | 124.3 |
| 37.5° | 763.0 | 630.7 | 304.1 | 140.2 | 119.0 | 113.7 | 113.7 | 112.4 | 113.7 | 112.4 | 113.7 |
| 40° | 770.9 | 622.8 | 251.2 | 124.3 | 112.4 | 108.4 | 107.1 | 104.5 | 103.1 | 103.1 | 104.5 |
| 42.5° | 804.0 | 633.4 | 206.3 | 113.7 | 107.1 | 104.5 | 100.5 | 97.9 | 96.5 | 96.5 | 96.5 |
| 45° | 846.3 | 653.2 | 170.6 | 108.4 | 103.1 | 96.5 | 93.9 | 92.6 | 89.9 | 91.2 | 92.6 |
| 47.5° | 909.8 | 683.6 | 149.4 | 104.5 | 99.2 | 91.2 | 88.6 | 86.0 | 86.0 | 88.6 | 88.6 |
| 50° | 993.1 | 733.9 | 136.2 | 100.5 | 95.2 | 87.3 | 83.3 | 82.0 | 82.0 | 86.0 | 86.0 |
| 52.5° | 1083.0 | 792.1 | 130.9 | 99.2 | 91.2 | 83.3 | 79.3 | 78.0 | 78.0 | 83.3 | 83.3 |
| 55° | 1172.9 | 863.5 | 134.9 | 99.2 | 88.6 | 79.3 | 75.4 | 72.7 | 74.0 | 78.0 | 78.0 |
| 57.5° | 1272.1 | 940.2 | 154.7 | 99.2 | 86.0 | 78.0 | 72.7 | 68.8 | 70.1 | 71.4 | 71.4 |
| 60° | 1380.5 | 1040.7 | 189.1 | 99.2 | 84.6 | 75.4 | 68.8 | 63.5 | 63.5 | 64.8 | 64.8 |
| 62.5° | 1490.3 | 1139.8 | 238.0 | 100.5 | 86.0 | 74.0 | 63.5 | 58.2 | 56.9 | 58.2 | 58.2 |
| 65° | 1634.4 | 1298.5 | 286.9 | 100.5 | 89.9 | 71.4 | 59.5 | 52.9 | 51.6 | 51.6 | 52.9 |
| 67.5° | 1836.7 | 1412.2 | 222.1 | 96.5 | 92.6 | 71.4 | 55.5 | 48.9 | 46.3 | 46.3 | 46.3 |
| 70° | 1729.6 | 1191.4 | 141.5 | 89.9 | 88.6 | 74.0 | 52.9 | 45.0 | 42.3 | 41.0 | 41.0 |
| 72.5° | 1481.0 | 953.4 | 113.7 | 84.6 | 82.0 | 72.7 | 50.2 | 42.3 | 38.3 | 37.0 | 37.0 |
| 75° | 1187.4 | 752.4 | 99.2 | 76.7 | 71.4 | 60.8 | 46.3 | 38.3 | 35.7 | 33.1 | 33.1 |
| 77.5° | 581.8 | 314.7 | 75.4 | 67.4 | 60.8 | 46.3 | 41.0 | 35.7 | 31.7 | 29.1 | 29.1 |
| 80° | 145.5 | 109.8 | 55.5 | 52.9 | 45.0 | 35.7 | 33.1 | 30.4 | 27.8 | 25.1 | 25.1 |
| 82.5° | 78.0 | 64.8 | 39.7 | 35.7 | 30.4 | 25.1 | 25.1 | 23.8 | 22.5 | 19.8 | 18.5 |
| 85° | 39.7 | 38.3 | 26.4 | 23.8 | 19.8 | 15.9 | 17.2 | 17.2 | 15.9 | 11.9 | 11.9 |
| 87.5° | 21.2 | 21.2 | 13.2 | 10.6 | 9.3 | 7.9 | 7.9 | 7.9 | 6.6 | 5.3 | 5.3 |
| 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)