

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: P674684

Luminaire Tested: **CCP-SA-1E-730-U-T3R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674684
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1E-730-U-T3R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ T3R distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

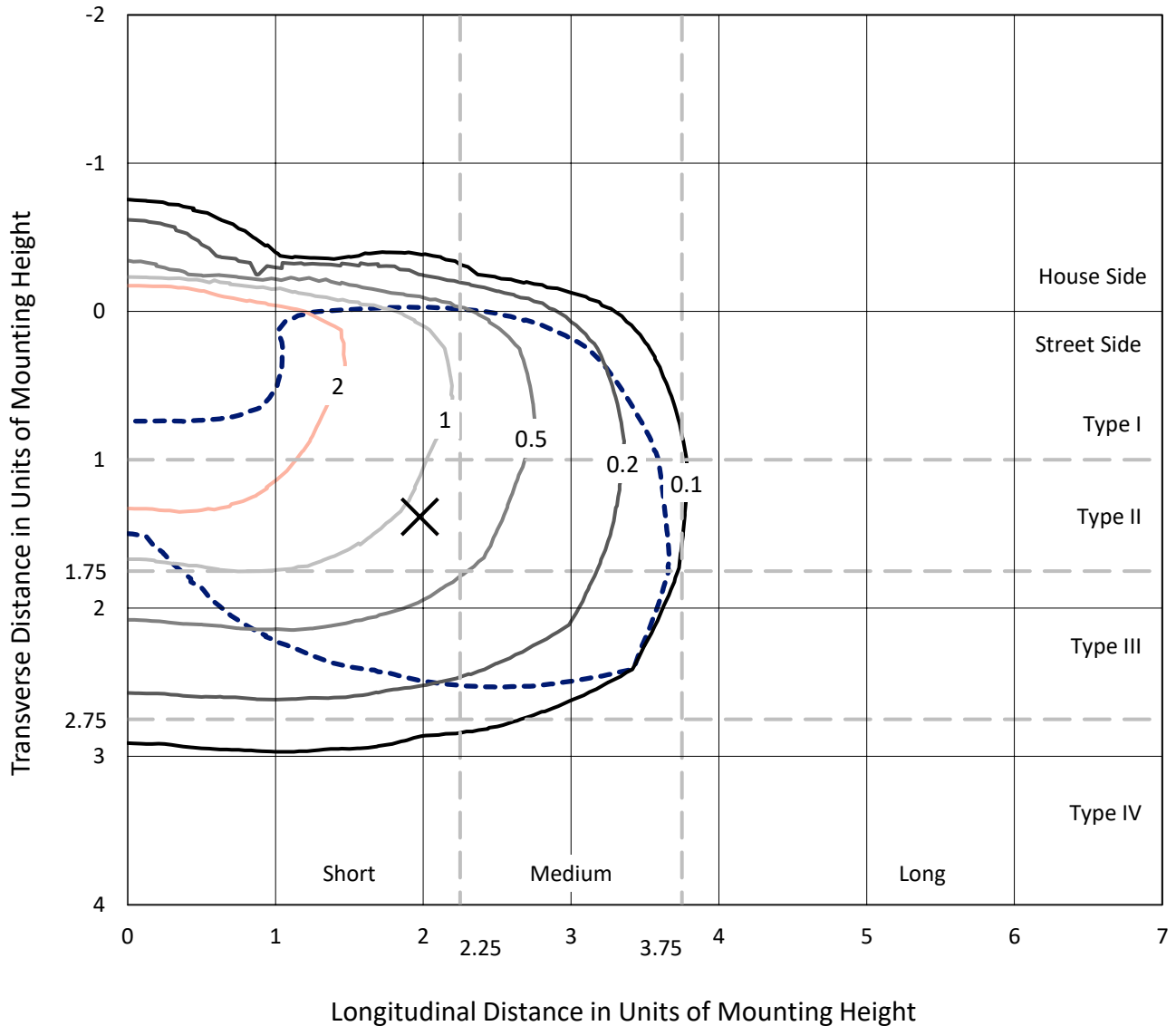
Lumens per Lamp: N/A
Luminaire Lumens: 4937.6 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1
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

REPORT NUMBER: P674684
 CATALOG NUMBER: CCP-SA-1E-730-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

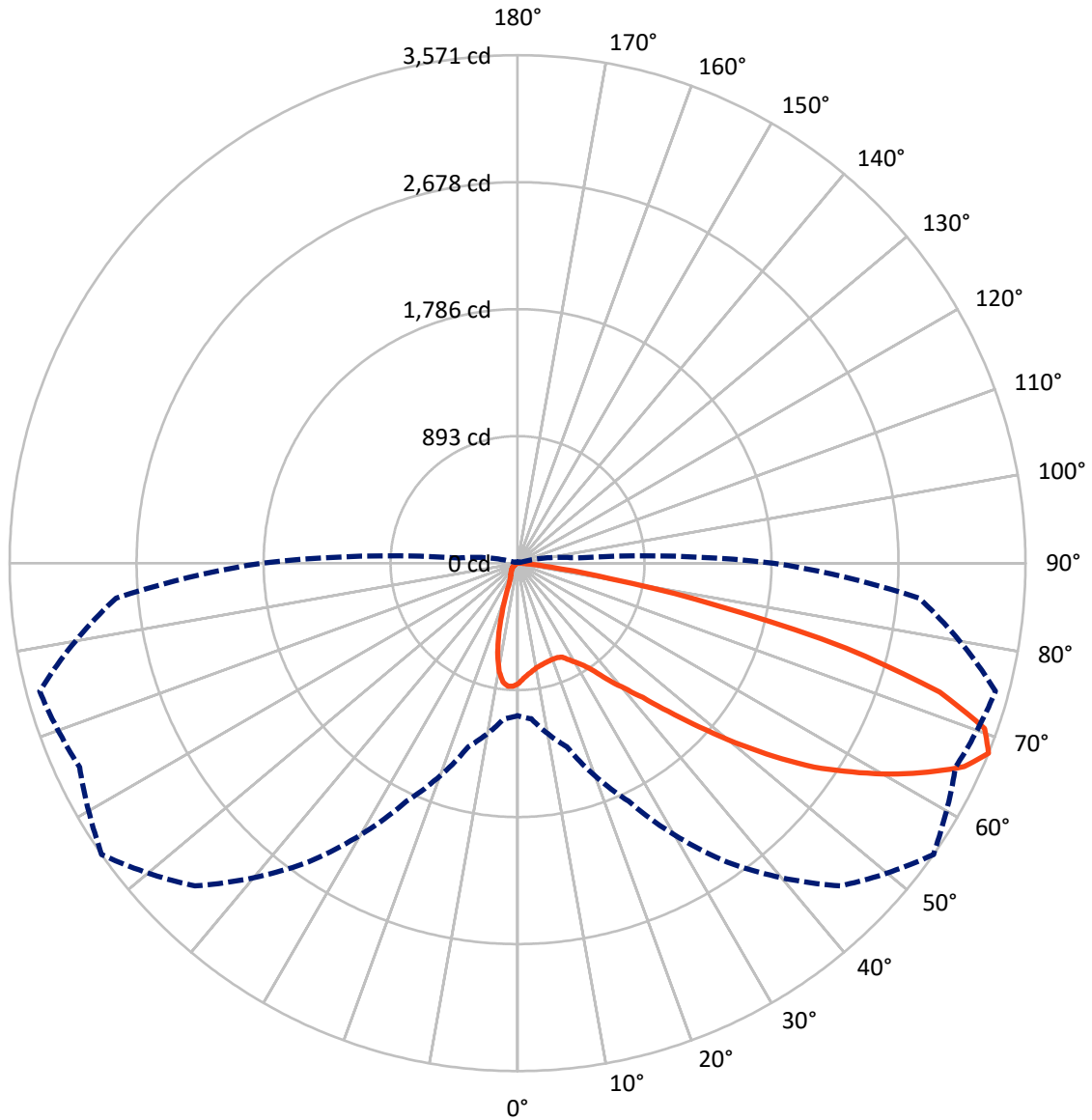
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

REPORT NUMBER: P674684
CATALOG NUMBER: CCP-SA-1E-730-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 443.6 | 0.0 | 443.6 |
| | % Fixture | 9.0 | 0.0 | 9.0 |
| Street Side | Lumens | 4494.1 | 0.0 | 4494.1 |
| | % Fixture | 91.0 | 0.0 | 91.0 |
| Total | Lumens | 4937.6 | 0.0 | 4937.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 74.3 | 1.5 |
| 10°-20° | 169.1 | 3.4 |
| 20°-30° | 271.3 | 5.5 |
| 30°-40° | 470.5 | 9.5 |
| 40°-50° | 784.5 | 15.9 |
| 50°-60° | 1147.2 | 23.2 |
| 60°-70° | 1337.7 | 27.1 |
| 70°-80° | 649.2 | 13.1 |
| 80°-90° | 33.9 | 0.7 |
| 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° | 4937.6 | 100.0 |
| 0°-180° | 4937.6 | 100.0 |



REPORT NUMBER: P674684

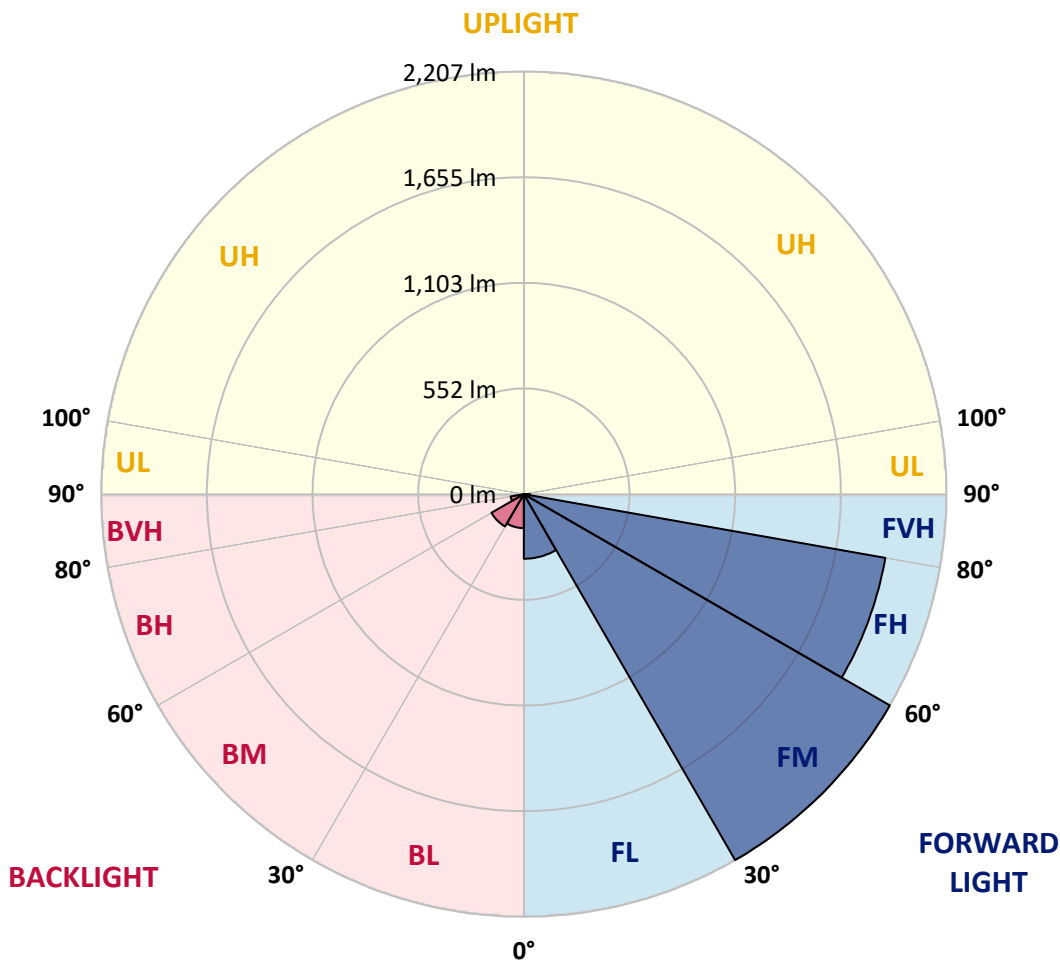
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 337.3 | 6.8 | | | |
| FM (30°-60°) | 2206.9 | 44.7 | | | |
| FH (60°-80°) | 1916.9 | 38.8 | | | G2/5000 |
| FVH (80°-90°) | 33.0 | 0.7 | | | G1/100 |
| BL (0°-30°) | 177.3 | 3.6 | B1/500 | | |
| BM (30°-60°) | 195.3 | 4.0 | B0/220 | | |
| BH (60°-80°) | 70.0 | 1.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.0 | 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 III Short





REPORT NUMBER: P674684

CATALOG NUMBER: CCP-SA-1E-730-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 |
| 2.5° | 781.1 | 786.1 | 792.5 | 794.8 | 802.5 | 813.4 | 810.2 | 808.0 | 820.2 | 837.1 | 842.5 |
| 5° | 732.4 | 732.9 | 742.9 | 750.2 | 763.4 | 773.8 | 785.2 | 784.3 | 806.6 | 835.3 | 853.4 |
| 7.5° | 684.7 | 685.6 | 696.0 | 707.4 | 726.5 | 747.0 | 764.3 | 763.4 | 799.3 | 837.5 | 872.1 |
| 10° | 621.9 | 626.4 | 639.2 | 659.2 | 689.2 | 721.5 | 745.6 | 747.9 | 791.1 | 846.2 | 897.6 |
| 12.5° | 571.4 | 573.7 | 587.8 | 613.7 | 649.2 | 691.5 | 736.5 | 735.2 | 792.9 | 862.1 | 930.8 |
| 15° | 550.0 | 548.6 | 557.3 | 576.4 | 616.9 | 670.1 | 727.4 | 730.6 | 799.3 | 880.3 | 965.4 |
| 17.5° | 555.0 | 553.6 | 558.2 | 565.0 | 593.7 | 652.4 | 722.4 | 727.9 | 809.3 | 899.4 | 997.7 |
| 20° | 610.5 | 601.0 | 592.8 | 585.5 | 589.6 | 637.8 | 719.2 | 725.2 | 815.2 | 914.0 | 1031.8 |
| 22.5° | 717.4 | 705.6 | 683.8 | 643.3 | 616.4 | 638.7 | 720.2 | 727.9 | 828.4 | 937.6 | 1073.2 |
| 25° | 891.7 | 880.3 | 833.4 | 750.6 | 679.7 | 671.5 | 732.4 | 740.6 | 858.9 | 973.5 | 1117.3 |
| 27.5° | 1122.3 | 1096.8 | 1040.0 | 921.2 | 784.3 | 723.8 | 769.3 | 778.4 | 902.1 | 1001.3 | 1147.3 |
| 30° | 1313.8 | 1307.9 | 1253.3 | 1107.8 | 928.5 | 800.7 | 810.7 | 815.7 | 921.7 | 1018.1 | 1177.4 |
| 32.5° | 1512.6 | 1500.4 | 1450.3 | 1308.8 | 1095.9 | 910.3 | 857.1 | 859.4 | 947.2 | 1043.2 | 1221.0 |
| 35° | 1685.5 | 1674.1 | 1632.3 | 1494.9 | 1291.5 | 1057.7 | 934.0 | 929.0 | 999.9 | 1098.2 | 1280.2 |
| 37.5° | 1845.6 | 1844.3 | 1807.4 | 1667.3 | 1467.1 | 1210.6 | 1047.2 | 1043.2 | 1082.3 | 1158.7 | 1360.2 |
| 40° | 2002.1 | 1998.5 | 1967.1 | 1839.3 | 1640.0 | 1363.0 | 1155.1 | 1144.6 | 1152.3 | 1243.3 | 1465.8 |
| 42.5° | 2098.1 | 2105.9 | 2116.8 | 2035.8 | 1845.2 | 1541.8 | 1291.5 | 1285.2 | 1283.8 | 1375.7 | 1604.5 |
| 45° | 2150.0 | 2163.6 | 2227.8 | 2220.5 | 2062.6 | 1764.2 | 1485.8 | 1469.4 | 1464.0 | 1557.7 | 1763.3 |
| 47.5° | 2200.5 | 2206.4 | 2311.5 | 2355.6 | 2271.0 | 1996.2 | 1720.5 | 1697.8 | 1675.5 | 1779.7 | 1953.0 |
| 50° | 2203.7 | 2213.2 | 2343.3 | 2450.7 | 2445.7 | 2224.6 | 1983.9 | 1963.9 | 1938.5 | 2049.9 | 2138.2 |
| 52.5° | 2159.1 | 2178.2 | 2339.2 | 2510.8 | 2554.0 | 2426.1 | 2257.4 | 2241.0 | 2220.1 | 2303.3 | 2294.2 |
| 55° | 1851.1 | 1883.4 | 2259.2 | 2516.2 | 2629.9 | 2599.0 | 2532.1 | 2509.4 | 2488.9 | 2548.1 | 2447.1 |
| 57.5° | 1704.6 | 1722.8 | 2016.2 | 2512.1 | 2726.8 | 2759.1 | 2770.5 | 2760.1 | 2731.4 | 2805.1 | 2606.7 |
| 60° | 1616.8 | 1643.2 | 1900.2 | 2466.6 | 2831.5 | 2940.2 | 3011.6 | 2990.7 | 2955.7 | 3057.1 | 2777.8 |
| 62.5° | 1511.7 | 1530.8 | 1784.7 | 2335.6 | 2893.8 | 3124.5 | 3237.7 | 3218.6 | 3146.3 | 3289.6 | 2916.1 |
| 65° | 1317.9 | 1346.6 | 1600.9 | 2129.5 | 2810.1 | 3259.6 | 3450.6 | 3444.3 | 3318.7 | 3465.2 | 2953.9 |
| 67.5° | 1072.7 | 1098.7 | 1335.7 | 1847.0 | 2565.3 | 3209.1 | 3571.2 | 3551.2 | 3397.0 | 3478.4 | 2834.2 |
| 70° | 805.2 | 819.3 | 998.1 | 1411.2 | 2101.8 | 2939.3 | 3483.8 | 3479.8 | 3278.2 | 3282.8 | 2467.1 |
| 72.5° | 432.2 | 471.3 | 663.7 | 944.4 | 1478.1 | 2380.6 | 3104.9 | 3088.5 | 2924.7 | 2688.6 | 1774.2 |
| 75° | 151.0 | 162.4 | 353.5 | 530.4 | 803.0 | 1585.9 | 2387.5 | 2349.3 | 2187.3 | 1748.7 | 966.7 |
| 77.5° | 92.8 | 101.9 | 157.0 | 271.1 | 312.5 | 688.3 | 1434.4 | 1384.8 | 1280.2 | 756.1 | 330.3 |
| 80° | 64.1 | 72.3 | 105.1 | 141.9 | 106.5 | 222.9 | 660.1 | 641.5 | 493.6 | 180.2 | 76.0 |
| 82.5° | 35.9 | 43.2 | 79.6 | 69.6 | 42.8 | 57.8 | 228.8 | 212.0 | 131.5 | 48.7 | 25.5 |
| 85° | 20.9 | 25.0 | 56.0 | 49.1 | 21.8 | 20.5 | 59.6 | 53.2 | 34.1 | 18.2 | 12.3 |
| 87.5° | 10.9 | 14.1 | 40.9 | 32.8 | 13.2 | 7.3 | 13.6 | 13.2 | 8.6 | 6.4 | 8.2 |
| 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° | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 | 846.2 |
| 2.5° | 852.5 | 850.3 | 862.1 | 866.2 | 865.3 | 863.5 | 868.0 | 862.1 | 861.6 | 860.3 | 858.9 |
| 5° | 868.0 | 871.6 | 881.2 | 881.2 | 868.5 | 847.5 | 834.8 | 817.5 | 803.0 | 794.3 | 792.9 |
| 7.5° | 891.2 | 898.5 | 904.9 | 885.3 | 841.6 | 789.8 | 734.7 | 691.5 | 653.7 | 634.2 | 632.4 |
| 10° | 924.0 | 930.8 | 925.8 | 869.8 | 776.1 | 668.7 | 579.1 | 489.0 | 444.0 | 419.4 | 419.4 |
| 12.5° | 963.1 | 968.5 | 938.1 | 831.2 | 668.3 | 512.7 | 393.1 | 298.4 | 253.4 | 224.3 | 222.5 |
| 15° | 1005.4 | 1006.8 | 936.2 | 763.8 | 535.0 | 344.4 | 225.6 | 165.6 | 146.5 | 142.4 | 141.5 |
| 17.5° | 1042.2 | 1036.8 | 917.1 | 664.2 | 385.3 | 205.2 | 143.3 | 129.7 | 126.0 | 126.0 | 126.0 |
| 20° | 1076.8 | 1058.6 | 878.9 | 548.2 | 247.0 | 139.7 | 123.3 | 119.6 | 119.6 | 120.1 | 120.1 |
| 22.5° | 1115.0 | 1079.1 | 824.3 | 419.4 | 158.8 | 119.6 | 115.6 | 113.7 | 113.3 | 114.6 | 114.2 |
| 25° | 1160.1 | 1099.1 | 746.1 | 289.8 | 122.8 | 111.5 | 109.6 | 107.8 | 107.8 | 107.8 | 107.8 |
| 27.5° | 1185.1 | 1096.4 | 656.9 | 182.9 | 107.4 | 103.3 | 101.4 | 99.6 | 98.3 | 97.8 | 98.3 |
| 30° | 1206.9 | 1080.5 | 540.5 | 127.8 | 96.9 | 92.4 | 91.0 | 88.7 | 86.0 | 85.1 | 85.1 |
| 32.5° | 1235.6 | 1067.3 | 418.5 | 102.8 | 87.8 | 82.8 | 78.7 | 75.1 | 70.5 | 68.7 | 68.2 |
| 35° | 1267.4 | 1043.2 | 306.6 | 90.5 | 79.6 | 73.2 | 66.9 | 61.0 | 55.0 | 53.2 | 52.8 |
| 37.5° | 1307.0 | 1021.3 | 207.9 | 83.7 | 72.8 | 65.1 | 56.4 | 48.2 | 42.8 | 41.9 | 41.9 |
| 40° | 1360.7 | 1003.1 | 143.8 | 77.8 | 66.4 | 57.3 | 46.9 | 38.2 | 34.6 | 33.7 | 33.7 |
| 42.5° | 1433.9 | 988.1 | 108.7 | 72.8 | 61.0 | 49.6 | 37.8 | 31.4 | 28.7 | 27.8 | 27.8 |
| 45° | 1520.4 | 964.9 | 91.9 | 68.2 | 55.5 | 41.9 | 31.4 | 26.4 | 25.0 | 25.0 | 25.0 |
| 47.5° | 1619.5 | 935.8 | 83.7 | 63.7 | 49.6 | 34.1 | 26.4 | 24.1 | 23.7 | 23.7 | 24.1 |
| 50° | 1719.6 | 901.2 | 77.8 | 58.2 | 42.8 | 29.1 | 24.1 | 22.7 | 22.7 | 23.2 | 23.2 |
| 52.5° | 1787.4 | 847.1 | 71.9 | 52.3 | 35.9 | 25.5 | 22.7 | 22.3 | 21.8 | 21.8 | 21.8 |
| 55° | 1853.4 | 799.8 | 63.7 | 45.9 | 30.0 | 23.7 | 21.8 | 21.4 | 21.4 | 20.9 | 20.9 |
| 57.5° | 1922.1 | 762.5 | 53.2 | 38.2 | 25.5 | 22.3 | 20.9 | 20.9 | 20.0 | 19.6 | 19.6 |
| 60° | 2001.7 | 729.7 | 40.9 | 30.0 | 22.3 | 20.9 | 19.6 | 19.1 | 18.2 | 17.3 | 17.3 |
| 62.5° | 2024.9 | 660.6 | 30.9 | 24.1 | 19.1 | 18.2 | 17.7 | 16.8 | 14.6 | 12.7 | 13.2 |
| 65° | 1964.4 | 551.8 | 24.6 | 19.1 | 15.5 | 15.5 | 14.1 | 11.8 | 9.6 | 8.2 | 8.2 |
| 67.5° | 1797.4 | 412.2 | 20.0 | 15.0 | 12.3 | 11.8 | 10.0 | 8.6 | 5.9 | 5.0 | 5.0 |
| 70° | 1481.2 | 272.5 | 16.4 | 11.8 | 10.0 | 8.2 | 6.8 | 6.4 | 4.5 | 3.6 | 3.6 |
| 72.5° | 1038.1 | 147.9 | 13.6 | 9.6 | 7.3 | 5.5 | 4.5 | 4.1 | 3.2 | 2.7 | 2.3 |
| 75° | 548.2 | 56.9 | 10.9 | 7.3 | 4.5 | 3.6 | 2.7 | 2.7 | 2.3 | 1.8 | 1.8 |
| 77.5° | 187.9 | 24.1 | 7.7 | 4.1 | 3.2 | 2.3 | 1.8 | 1.4 | 1.8 | 1.4 | 1.4 |
| 80° | 44.6 | 14.1 | 5.0 | 2.7 | 1.8 | 1.4 | 1.4 | 0.9 | 0.9 | 0.9 | 0.9 |
| 82.5° | 19.6 | 8.2 | 3.2 | 1.8 | 1.8 | 1.4 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 |
| 85° | 13.2 | 5.0 | 2.3 | 1.8 | 1.4 | 0.9 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 |
| 87.5° | 10.5 | 3.2 | 1.8 | 1.8 | 1.4 | 0.9 | 0.5 | 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)