

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: P675281

Luminaire Tested: **CCW-SA-1E-750-U-T4W**

Issue Date: 04/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P675281  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1E-750-U-T4W  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/  
T4W distribution lens  
Light Source: (16) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

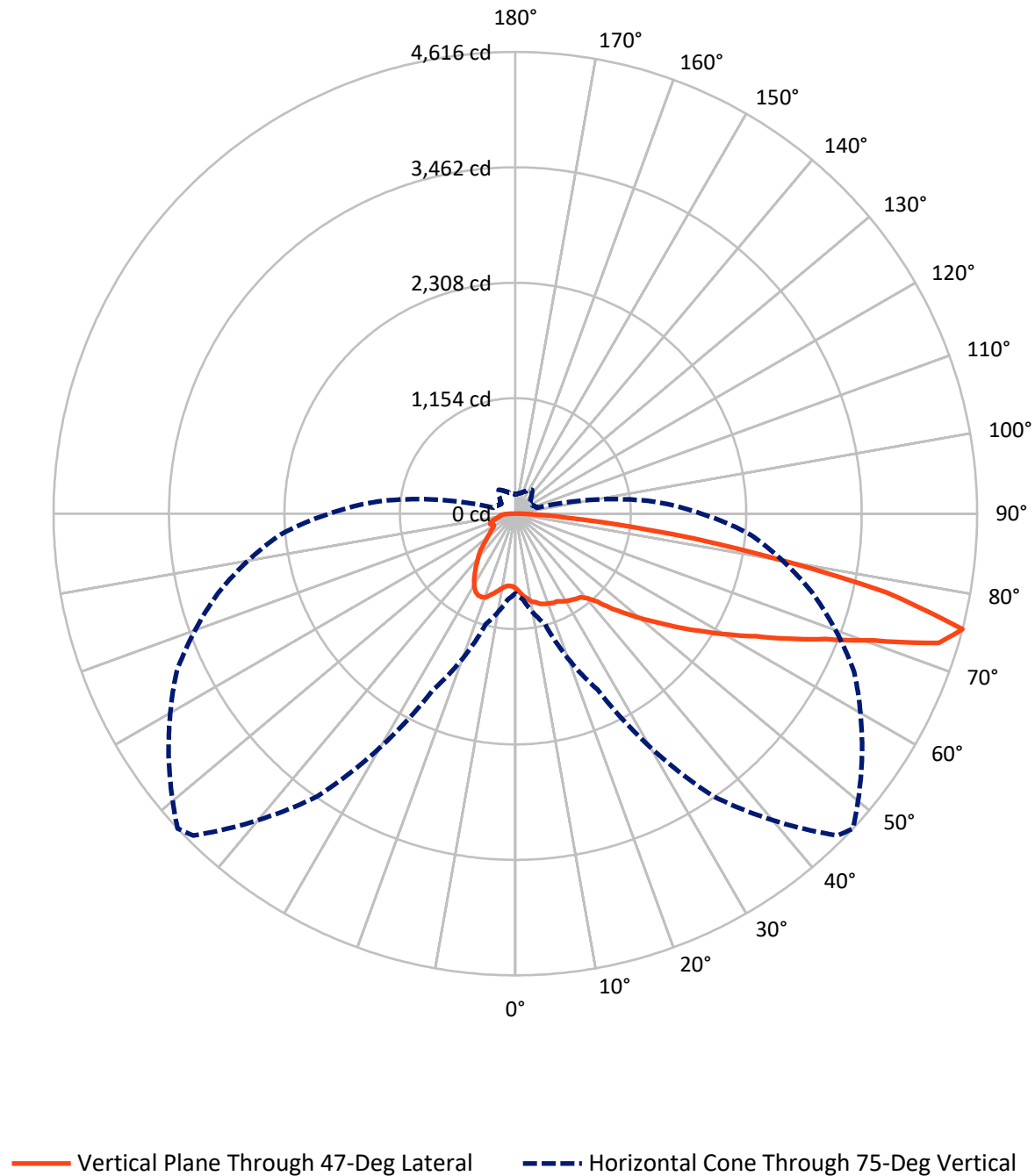
Lumens per Lamp: N/A  
Luminaire Lumens: 7055.3 lumens  
Efficiency: N/A  
Efficacy: 125.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G2

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



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## Luminous Intensity Polar Plot



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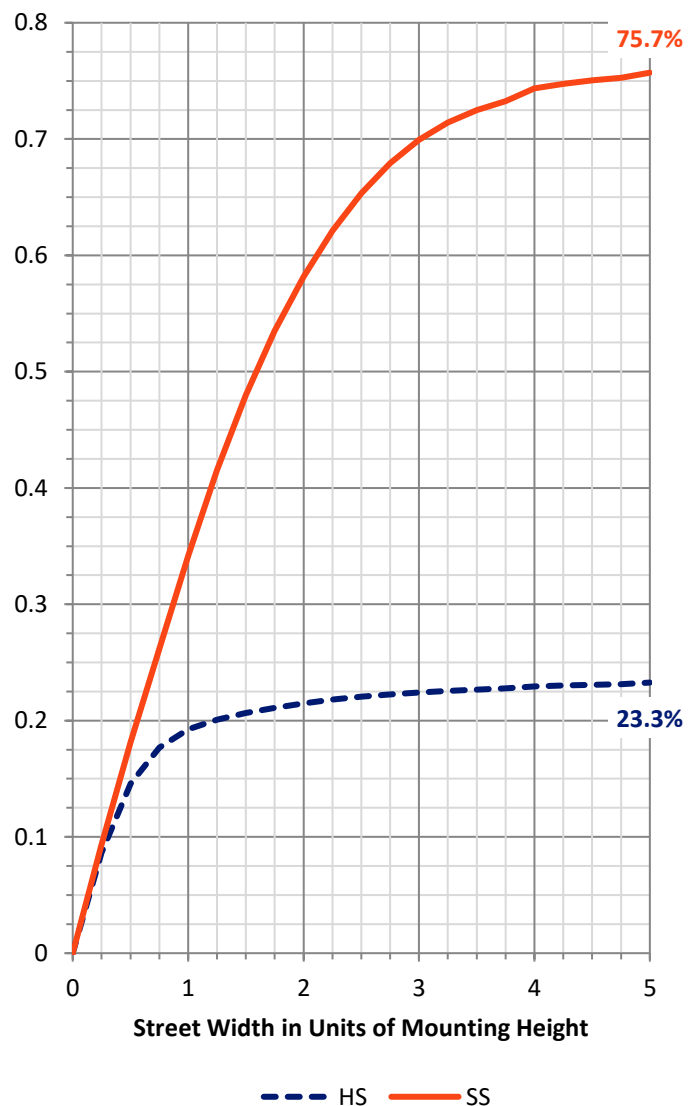
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1687.3   | 0.0    | 1687.3 |
|                    | % Fixture | 23.9     | 0.0    | 23.9   |
| <b>Street Side</b> | Lumens    | 5368.0   | 0.0    | 5368.0 |
|                    | % Fixture | 76.1     | 0.0    | 76.1   |
| <b>Total</b>       | Lumens    | 7055.3   | 0.0    | 7055.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 75.7   | 1.1       |
| 10°-20°   | 251.5  | 3.6       |
| 20°-30°   | 430.8  | 6.1       |
| 30°-40°   | 602.7  | 8.5       |
| 40°-50°   | 840.4  | 11.9      |
| 50°-60°   | 1256.1 | 17.8      |
| 60°-70°   | 1811.0 | 25.7      |
| 70°-80°   | 1541.6 | 21.8      |
| 80°-90°   | 245.6  | 3.5       |
| 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°    | 7055.3 | 100.0     |
| 0°-180°   | 7055.3 | 100.0     |

**Coefficient of Utilization**



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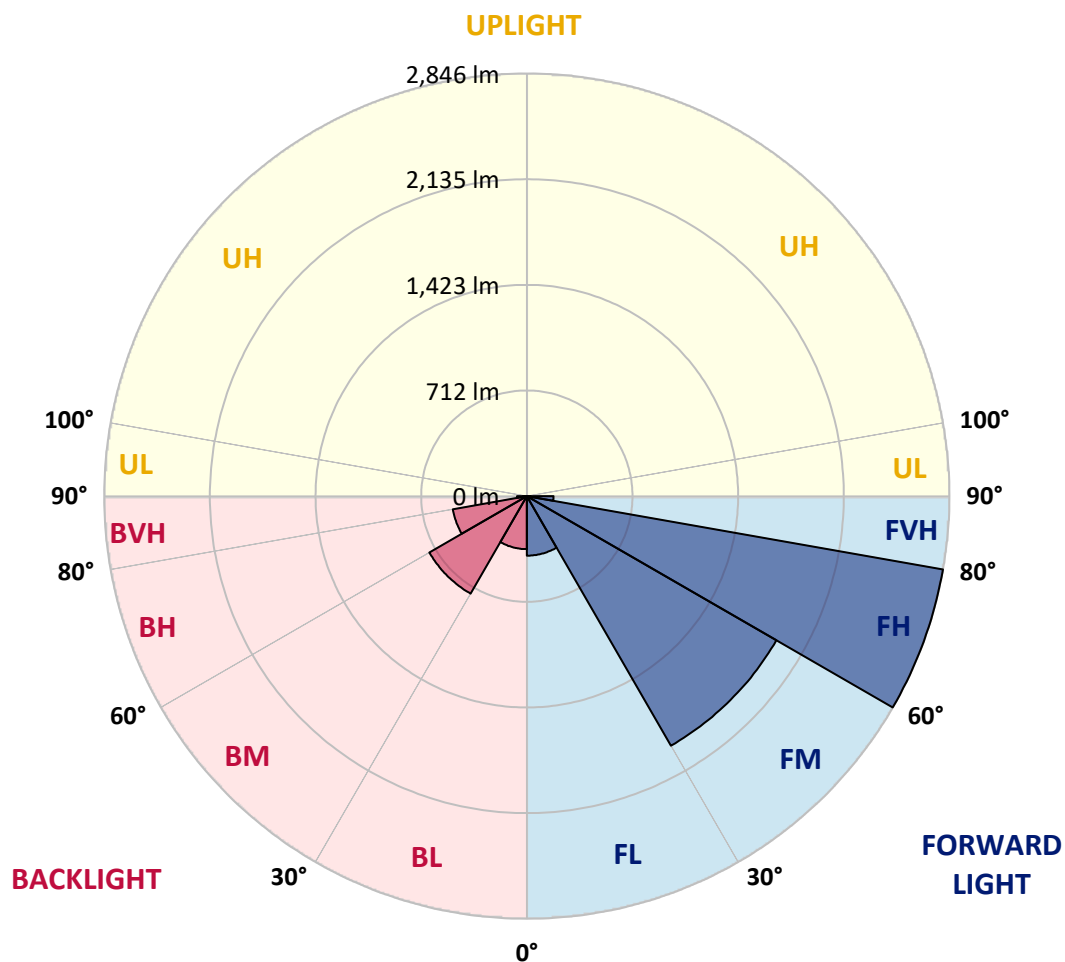
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 400.9  | 5.7       |                         |      |         |
| FM   | (30°-60°)   | 1940.9 | 27.5      |                         |      |         |
| FH   | (60°-80°)   | 2846.4 | 40.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 179.9  | 2.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 357.1  | 5.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 758.3  | 10.7      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 506.2  | 7.2       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 65.6   | 0.9       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 47°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 749.1  | 749.1  | 749.1  | 749.1  | 749.1  | 749.1  | 749.1  | 749.1  | 749.1  | 749.1  | 749.1  |
| 2.5°  | 803.2  | 805.8  | 805.8  | 800.6  | 795.5  | 785.2  | 785.2  | 774.9  | 769.7  | 756.8  | 751.7  |
| 5°    | 877.8  | 870.1  | 862.4  | 859.8  | 846.9  | 828.9  | 826.4  | 816.1  | 787.7  | 774.9  | 756.8  |
| 7.5°  | 931.9  | 929.3  | 926.8  | 916.5  | 893.3  | 865.0  | 857.2  | 841.8  | 813.5  | 787.7  | 767.1  |
| 10°   | 975.7  | 986.0  | 975.7  | 952.5  | 929.3  | 898.4  | 895.9  | 867.5  | 841.8  | 810.9  | 785.2  |
| 12.5° | 1024.6 | 1027.2 | 1009.1 | 980.8  | 944.8  | 919.0  | 908.7  | 898.4  | 870.1  | 844.4  | 805.8  |
| 15°   | 1058.0 | 1052.9 | 1040.0 | 1001.4 | 960.2  | 934.5  | 937.0  | 924.2  | 893.3  | 875.3  | 834.1  |
| 17.5° | 1058.0 | 1058.0 | 1037.4 | 1009.1 | 973.1  | 949.9  | 949.9  | 942.2  | 921.6  | 895.9  | 867.5  |
| 20°   | 1037.4 | 1037.4 | 1024.6 | 1009.1 | 967.9  | 962.8  | 957.6  | 952.5  | 952.5  | 929.3  | 888.1  |
| 22.5° | 1011.7 | 1006.6 | 1011.7 | 986.0  | 957.6  | 962.8  | 970.5  | 967.9  | 960.2  | 939.6  | 911.3  |
| 25°   | 986.0  | 988.5  | 993.7  | 975.7  | 949.9  | 973.1  | 970.5  | 983.4  | 978.2  | 962.8  | 939.6  |
| 27.5° | 983.4  | 988.5  | 991.1  | 973.1  | 962.8  | 983.4  | 993.7  | 1006.6 | 1009.1 | 993.7  | 965.4  |
| 30°   | 1022.0 | 1019.4 | 1016.9 | 993.7  | 986.0  | 1004.0 | 1014.3 | 1032.3 | 1047.7 | 1014.3 | 991.1  |
| 32.5° | 1122.4 | 1107.0 | 1091.5 | 1029.7 | 1006.6 | 1019.4 | 1029.7 | 1055.5 | 1058.0 | 1040.0 | 1006.6 |
| 35°   | 1282.0 | 1271.7 | 1220.2 | 1112.1 | 1047.7 | 1034.9 | 1045.2 | 1063.2 | 1068.3 | 1055.5 | 1029.7 |
| 37.5° | 1464.8 | 1459.6 | 1387.6 | 1256.3 | 1132.7 | 1070.9 | 1060.6 | 1086.4 | 1107.0 | 1078.6 | 1042.6 |
| 40°   | 1645.0 | 1624.4 | 1572.9 | 1444.2 | 1240.8 | 1125.0 | 1112.1 | 1125.0 | 1132.7 | 1112.1 | 1088.9 |
| 42.5° | 1807.2 | 1784.0 | 1771.1 | 1642.4 | 1382.4 | 1215.1 | 1204.8 | 1173.9 | 1197.1 | 1171.3 | 1140.4 |
| 45°   | 1943.6 | 1938.5 | 1933.3 | 1822.6 | 1544.6 | 1361.8 | 1354.1 | 1274.3 | 1300.0 | 1279.4 | 1235.7 |
| 47.5° | 2041.4 | 2064.6 | 2056.9 | 1995.1 | 1729.9 | 1518.8 | 1495.7 | 1392.7 | 1431.3 | 1410.7 | 1367.0 |
| 50°   | 2157.3 | 2170.1 | 2162.4 | 2121.2 | 1902.4 | 1699.0 | 1655.3 | 1549.7 | 1593.5 | 1590.9 | 1567.8 |
| 52.5° | 2260.2 | 2298.9 | 2255.1 | 2252.5 | 2149.6 | 1894.7 | 1820.0 | 1719.6 | 1791.7 | 1820.0 | 1817.5 |
| 55°   | 2381.2 | 2412.1 | 2399.3 | 2394.1 | 2370.9 | 2085.2 | 2018.3 | 1897.3 | 2018.3 | 2059.4 | 2095.5 |
| 57.5° | 2484.2 | 2481.6 | 2530.5 | 2589.8 | 2618.1 | 2304.0 | 2224.2 | 2082.6 | 2265.4 | 2311.7 | 2412.1 |
| 60°   | 2530.5 | 2574.3 | 2656.7 | 2806.0 | 2885.8 | 2538.3 | 2455.9 | 2342.6 | 2515.1 | 2551.1 | 2736.5 |
| 62.5° | 2561.4 | 2600.1 | 2759.7 | 3011.9 | 3058.3 | 2777.7 | 2700.5 | 2587.2 | 2788.0 | 2813.7 | 3089.2 |
| 65°   | 2476.5 | 2512.5 | 2829.2 | 3089.2 | 3253.9 | 3035.1 | 3017.1 | 2898.7 | 3060.9 | 3076.3 | 3459.9 |
| 67.5° | 2378.7 | 2417.3 | 2770.0 | 3187.0 | 3513.9 | 3377.5 | 3349.2 | 3207.6 | 3331.2 | 3313.1 | 3743.0 |
| 70°   | 2206.2 | 2257.7 | 2618.1 | 3271.9 | 3802.3 | 3856.3 | 3799.7 | 3598.9 | 3611.8 | 3441.9 | 3755.9 |
| 72.5° | 1681.0 | 1714.5 | 2049.2 | 2934.7 | 3936.1 | 4520.5 | 4422.7 | 4021.1 | 3874.3 | 3467.6 | 3315.7 |
| 75°   | 798.0  | 859.8  | 1143.0 | 1941.0 | 3449.6 | 4551.4 | 4615.7 | 4229.6 | 3735.3 | 3076.3 | 2350.3 |
| 77.5° | 231.7  | 231.7  | 347.5  | 823.8  | 2162.4 | 3668.4 | 3789.4 | 3591.2 | 3081.5 | 2278.3 | 1235.7 |
| 80°   | 126.1  | 133.9  | 182.8  | 290.9  | 949.9  | 2314.3 | 2489.4 | 2381.2 | 1814.9 | 901.0  | 319.2  |
| 82.5° | 72.1   | 74.7   | 121.0  | 175.1  | 432.5  | 1258.8 | 1361.8 | 1235.7 | 689.9  | 272.9  | 149.3  |
| 85°   | 41.2   | 43.8   | 69.5   | 115.8  | 257.4  | 463.4  | 504.6  | 437.6  | 278.0  | 182.8  | 74.7   |
| 87.5° | 20.6   | 20.6   | 33.5   | 54.1   | 131.3  | 131.3  | 128.7  | 157.0  | 167.3  | 110.7  | 33.5   |
| 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°    | 749.1  | 749.1  | 749.1  | 749.1 | 749.1 | 749.1 | 749.1 | 749.1 | 749.1 | 749.1 | 749.1 |
| 2.5°  | 749.1  | 746.6  | 746.6  | 736.3 | 733.7 | 726.0 | 726.0 | 720.8 | 718.2 | 726.0 | 726.0 |
| 5°    | 751.7  | 738.8  | 736.3  | 726.0 | 728.5 | 723.4 | 733.7 | 728.5 | 726.0 | 726.0 | 723.4 |
| 7.5°  | 756.8  | 744.0  | 733.7  | 726.0 | 723.4 | 731.1 | 744.0 | 744.0 | 759.4 | 751.7 | 751.7 |
| 10°   | 769.7  | 762.0  | 749.1  | 744.0 | 744.0 | 751.7 | 767.1 | 777.4 | 790.3 | 790.3 | 782.6 |
| 12.5° | 800.6  | 787.7  | 772.3  | 764.6 | 774.9 | 782.6 | 798.0 | 808.3 | 823.8 | 828.9 | 823.8 |
| 15°   | 823.8  | 810.9  | 805.8  | 800.6 | 808.3 | 818.6 | 831.5 | 841.8 | 859.8 | 865.0 | 862.4 |
| 17.5° | 854.7  | 839.2  | 836.7  | 839.2 | 844.4 | 852.1 | 859.8 | 867.5 | 880.4 | 880.4 | 880.4 |
| 20°   | 870.1  | 865.0  | 862.4  | 870.1 | 880.4 | 890.7 | 885.6 | 880.4 | 877.8 | 883.0 | 880.4 |
| 22.5° | 898.4  | 893.3  | 895.9  | 903.6 | 903.6 | 898.4 | 890.7 | 872.7 | 867.5 | 872.7 | 867.5 |
| 25°   | 924.2  | 919.0  | 919.0  | 913.9 | 911.3 | 893.3 | 877.8 | 862.4 | 844.4 | 852.1 | 849.5 |
| 27.5° | 949.9  | 947.3  | 947.3  | 926.8 | 901.0 | 870.1 | 849.5 | 831.5 | 821.2 | 834.1 | 826.4 |
| 30°   | 980.8  | 983.4  | 970.5  | 921.6 | 859.8 | 826.4 | 803.2 | 800.6 | 798.0 | 805.8 | 803.2 |
| 32.5° | 1009.1 | 1011.7 | 991.1  | 913.9 | 828.9 | 764.6 | 741.4 | 744.0 | 756.8 | 769.7 | 782.6 |
| 35°   | 1024.6 | 1037.4 | 1011.7 | 888.1 | 767.1 | 695.1 | 669.3 | 692.5 | 715.7 | 733.7 | 746.6 |
| 37.5° | 1052.9 | 1086.4 | 1042.6 | 859.8 | 713.1 | 633.3 | 615.3 | 623.0 | 651.3 | 679.6 | 692.5 |
| 40°   | 1094.1 | 1132.7 | 1050.3 | 805.8 | 641.0 | 571.5 | 561.2 | 563.8 | 574.1 | 592.1 | 605.0 |
| 42.5° | 1166.2 | 1207.4 | 1058.0 | 736.3 | 568.9 | 532.9 | 504.6 | 496.8 | 489.1 | 489.1 | 486.5 |
| 45°   | 1271.7 | 1310.3 | 1047.7 | 648.7 | 496.8 | 471.1 | 450.5 | 432.5 | 411.9 | 378.4 | 383.6 |
| 47.5° | 1426.2 | 1457.1 | 1055.5 | 571.5 | 429.9 | 409.3 | 393.9 | 373.3 | 342.4 | 306.3 | 303.8 |
| 50°   | 1660.4 | 1614.1 | 1045.2 | 491.7 | 381.0 | 363.0 | 350.1 | 321.8 | 285.7 | 260.0 | 257.4 |
| 52.5° | 1933.3 | 1840.6 | 1034.9 | 424.8 | 339.8 | 324.4 | 314.1 | 283.2 | 249.7 | 236.8 | 234.3 |
| 55°   | 2262.8 | 2129.0 | 1050.3 | 365.6 | 308.9 | 296.0 | 285.7 | 257.4 | 231.7 | 221.4 | 218.8 |
| 57.5° | 2651.5 | 2440.4 | 1135.3 | 319.2 | 275.5 | 270.3 | 267.7 | 244.6 | 221.4 | 213.7 | 211.1 |
| 60°   | 3017.1 | 2739.1 | 1191.9 | 285.7 | 244.6 | 249.7 | 254.9 | 244.6 | 218.8 | 213.7 | 213.7 |
| 62.5° | 3323.4 | 2986.2 | 1101.8 | 257.4 | 229.1 | 244.6 | 267.7 | 260.0 | 249.7 | 254.9 | 249.7 |
| 65°   | 3593.7 | 3071.2 | 823.8  | 242.0 | 221.4 | 257.4 | 296.0 | 293.5 | 270.3 | 275.5 | 272.9 |
| 67.5° | 3640.1 | 2968.2 | 538.0  | 229.1 | 216.2 | 283.2 | 332.1 | 301.2 | 254.9 | 254.9 | 247.1 |
| 70°   | 3447.0 | 2692.7 | 360.4  | 216.2 | 213.7 | 283.2 | 339.8 | 283.2 | 239.4 | 239.4 | 229.1 |
| 72.5° | 2829.2 | 2152.1 | 278.0  | 203.4 | 195.6 | 252.3 | 321.8 | 267.7 | 224.0 | 218.8 | 200.8 |
| 75°   | 1858.7 | 1387.6 | 226.5  | 193.1 | 169.9 | 221.4 | 290.9 | 247.1 | 213.7 | 198.2 | 190.5 |
| 77.5° | 911.3  | 623.0  | 190.5  | 169.9 | 146.7 | 193.1 | 265.2 | 234.3 | 200.8 | 185.4 | 180.2 |
| 80°   | 249.7  | 224.0  | 159.6  | 149.3 | 123.6 | 167.3 | 249.7 | 224.0 | 187.9 | 172.5 | 164.8 |
| 82.5° | 141.6  | 139.0  | 128.7  | 121.0 | 103.0 | 167.3 | 252.3 | 224.0 | 177.6 | 175.1 | 149.3 |
| 85°   | 77.2   | 82.4   | 92.7   | 90.1  | 79.8  | 149.3 | 239.4 | 195.6 | 144.2 | 121.0 | 121.0 |
| 87.5° | 30.9   | 38.6   | 46.3   | 51.5  | 54.1  | 110.7 | 180.2 | 149.3 | 110.7 | 92.7  | 92.7  |
| 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)