

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: STREETWORKS

Report Number: P483767

Luminaire Tested: **IFLD-S-SA2A-830-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483767
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-830-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

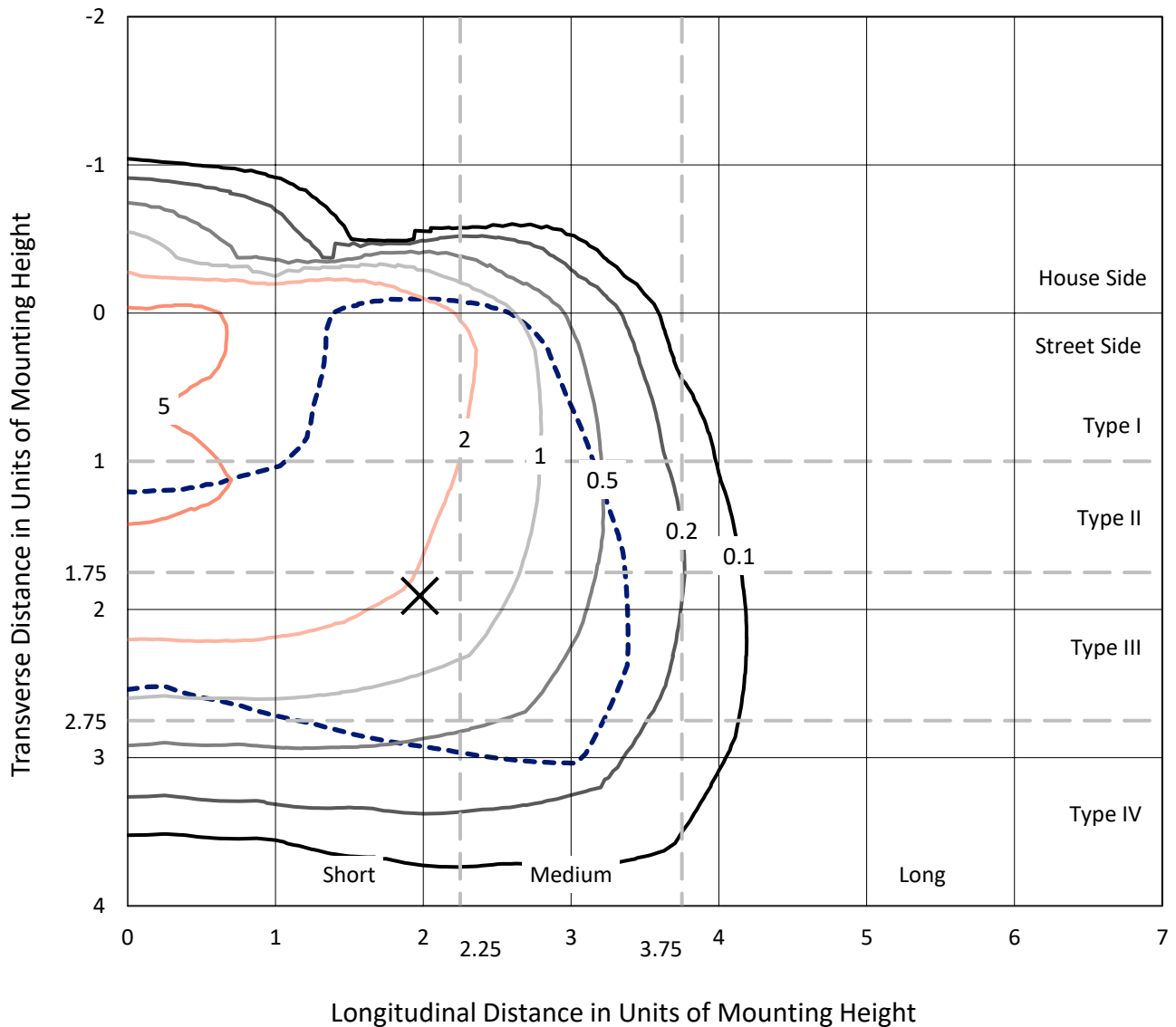
Lumens per Lamp: N/A
Luminaire Lumens: 5412.7 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

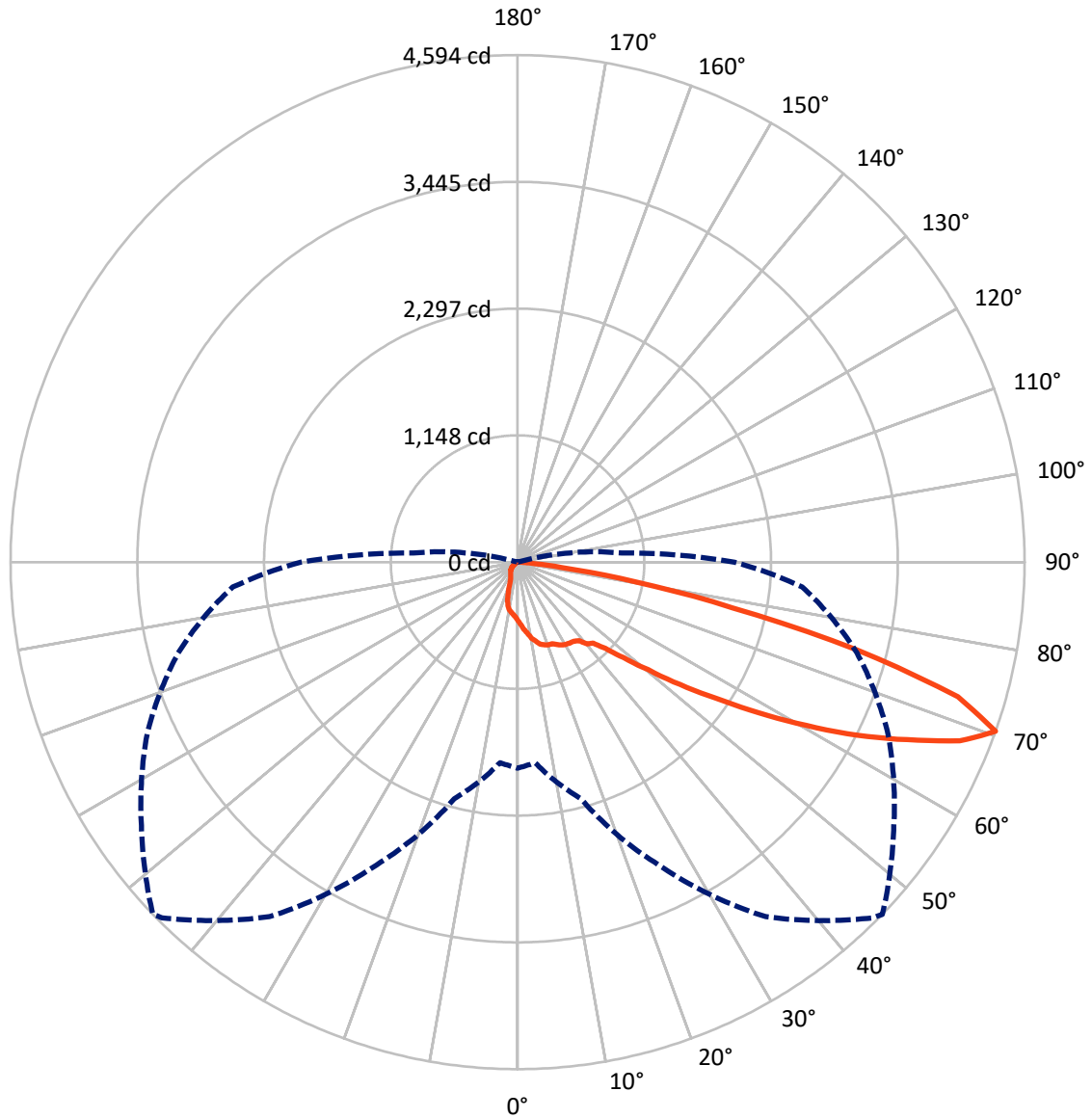
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 538.6 | 0.0 | 538.6 |
| | % Fixture | 10.0 | 0.0 | 10.0 |
| Street Side | Lumens | 4874.1 | 0.0 | 4874.1 |
| | % Fixture | 90.0 | 0.0 | 90.0 |
| Total | Lumens | 5412.7 | 0.0 | 5412.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 53.0 | 1.0 |
| 10°-20° | 160.0 | 3.0 |
| 20°-30° | 256.3 | 4.7 |
| 30°-40° | 365.8 | 6.8 |
| 40°-50° | 631.7 | 11.7 |
| 50°-60° | 1209.4 | 22.3 |
| 60°-70° | 1790.9 | 33.1 |
| 70°-80° | 887.0 | 16.4 |
| 80°-90° | 58.6 | 1.1 |
| 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° | 5412.7 | 100.0 |
| 0°-180° | 5412.7 | 100.0 |

Coefficient of Utilization



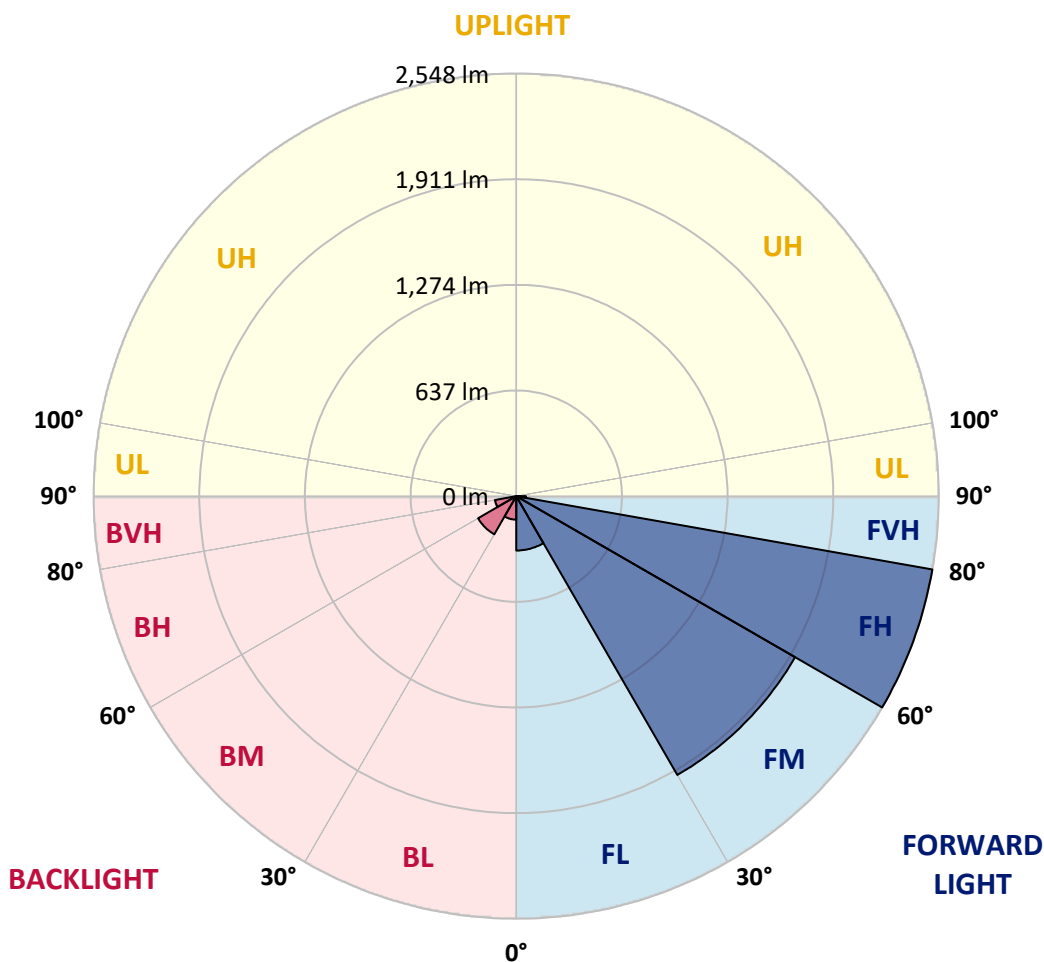
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 327.8 | 6.1 | | | |
| FM (30°-60°) | 1941.0 | 35.9 | | | |
| FH (60°-80°) | 2547.5 | 47.1 | | | G2/5000 |
| FVH (80°-90°) | 57.9 | 1.1 | | | G1/100 |
| BL (0°-30°) | 141.5 | 2.6 | B1/500 | | |
| BM (30°-60°) | 265.9 | 4.9 | B1/1000 | | |
| BH (60°-80°) | 130.4 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.7 | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 531.4 | 531.4 | 531.4 | 531.4 | 531.4 | 531.4 | 531.4 | 531.4 | 531.4 | 531.4 | 531.4 |
| 2.5° | 592.9 | 589.0 | 582.8 | 580.4 | 574.2 | 571.1 | 566.4 | 564.1 | 555.5 | 546.9 | 541.5 |
| 5° | 665.4 | 656.0 | 659.1 | 649.8 | 629.5 | 613.2 | 612.4 | 594.5 | 575.0 | 559.4 | 538.4 |
| 7.5° | 738.6 | 730.8 | 719.1 | 705.9 | 683.3 | 659.1 | 652.1 | 635.0 | 607.7 | 580.4 | 552.4 |
| 10° | 793.9 | 788.5 | 778.3 | 759.6 | 728.5 | 701.2 | 702.0 | 673.2 | 644.3 | 613.2 | 575.0 |
| 12.5° | 828.2 | 830.5 | 815.7 | 797.0 | 769.8 | 735.5 | 734.7 | 715.2 | 682.5 | 649.8 | 604.6 |
| 15° | 862.5 | 871.1 | 848.5 | 826.6 | 791.6 | 766.7 | 771.3 | 748.0 | 716.0 | 678.6 | 628.7 |
| 17.5° | 867.9 | 870.3 | 865.6 | 833.7 | 807.9 | 786.9 | 787.7 | 772.1 | 748.0 | 707.4 | 664.6 |
| 20° | 858.6 | 857.0 | 851.6 | 828.2 | 811.1 | 798.6 | 799.4 | 795.5 | 782.2 | 749.5 | 691.1 |
| 22.5° | 831.3 | 831.3 | 824.3 | 808.7 | 800.9 | 812.6 | 803.3 | 818.1 | 804.1 | 784.6 | 736.3 |
| 25° | 809.5 | 818.1 | 814.2 | 804.1 | 807.2 | 822.7 | 827.4 | 841.4 | 839.1 | 815.0 | 767.4 |
| 27.5° | 832.9 | 822.7 | 825.1 | 813.4 | 825.1 | 848.5 | 850.8 | 860.9 | 860.1 | 840.7 | 795.5 |
| 30° | 848.5 | 857.8 | 839.9 | 814.2 | 826.6 | 866.4 | 864.8 | 878.1 | 884.3 | 860.9 | 822.0 |
| 32.5° | 898.3 | 890.5 | 875.7 | 841.4 | 843.0 | 865.6 | 872.6 | 889.8 | 893.6 | 879.6 | 847.7 |
| 35° | 1000.4 | 988.7 | 924.0 | 872.6 | 864.8 | 875.7 | 880.4 | 913.9 | 920.9 | 905.3 | 875.0 |
| 37.5° | 1157.8 | 1131.3 | 1053.4 | 939.6 | 904.6 | 902.2 | 902.2 | 946.6 | 973.1 | 937.3 | 915.5 |
| 40° | 1382.9 | 1345.5 | 1261.4 | 1063.5 | 956.8 | 966.1 | 975.5 | 999.6 | 996.5 | 973.1 | 968.4 |
| 42.5° | 1669.7 | 1640.8 | 1549.7 | 1271.5 | 1056.5 | 1009.7 | 1001.9 | 1034.7 | 1083.8 | 1074.4 | 1071.3 |
| 45° | 1908.8 | 1910.4 | 1852.0 | 1556.7 | 1228.7 | 1110.2 | 1115.7 | 1140.6 | 1223.2 | 1216.2 | 1215.4 |
| 47.5° | 2083.4 | 2061.5 | 2053.0 | 1831.7 | 1479.5 | 1301.1 | 1293.3 | 1310.5 | 1418.0 | 1462.4 | 1482.7 |
| 50° | 2242.3 | 2227.5 | 2207.2 | 2098.9 | 1781.1 | 1540.3 | 1532.5 | 1534.1 | 1698.5 | 1760.8 | 1810.7 |
| 52.5° | 2439.4 | 2458.1 | 2391.1 | 2324.9 | 2171.4 | 1851.2 | 1842.6 | 1812.2 | 2016.4 | 2102.1 | 2161.3 |
| 55° | 2682.5 | 2647.4 | 2571.9 | 2606.2 | 2544.6 | 2187.0 | 2171.4 | 2135.6 | 2378.6 | 2414.5 | 2476.8 |
| 57.5° | 2736.3 | 2709.8 | 2787.7 | 2909.2 | 2968.4 | 2581.2 | 2575.0 | 2510.3 | 2683.3 | 2650.6 | 2826.6 |
| 60° | 2870.3 | 2877.3 | 2985.6 | 3227.1 | 3330.0 | 3036.2 | 3005.8 | 2892.1 | 2978.6 | 2984.8 | 3172.6 |
| 62.5° | 3008.2 | 2991.8 | 3234.1 | 3466.3 | 3624.5 | 3467.1 | 3457.0 | 3231.0 | 3329.2 | 3249.7 | 3498.2 |
| 65° | 2906.9 | 2931.8 | 3278.5 | 3667.3 | 4006.2 | 3888.6 | 3880.0 | 3557.5 | 3611.2 | 3512.3 | 3630.7 |
| 67.5° | 2546.9 | 2496.3 | 2981.7 | 3575.4 | 4202.6 | 4330.3 | 4321.0 | 3913.5 | 3770.2 | 3510.7 | 3355.7 |
| 70° | 1866.8 | 1823.1 | 2218.9 | 3027.7 | 3921.3 | 4556.3 | 4593.7 | 4161.3 | 3705.5 | 3183.5 | 2589.0 |
| 72.5° | 914.7 | 915.5 | 1243.5 | 2053.0 | 3102.5 | 4152.7 | 4171.4 | 3815.3 | 3183.5 | 2346.7 | 1466.3 |
| 75° | 270.4 | 273.5 | 460.5 | 1006.6 | 2005.5 | 3153.9 | 3174.9 | 2896.0 | 2206.5 | 1212.3 | 500.2 |
| 77.5° | 98.9 | 98.9 | 152.7 | 377.9 | 1000.4 | 1990.6 | 1989.1 | 1777.9 | 1117.3 | 410.6 | 116.9 |
| 80° | 51.4 | 53.8 | 79.5 | 154.3 | 433.2 | 1037.0 | 1076.0 | 870.3 | 424.6 | 173.0 | 34.3 |
| 82.5° | 21.0 | 23.4 | 43.6 | 79.5 | 208.0 | 363.8 | 398.1 | 341.3 | 184.7 | 120.8 | 15.6 |
| 85° | 6.2 | 7.0 | 21.0 | 44.4 | 81.8 | 91.2 | 101.3 | 114.5 | 116.1 | 93.5 | 7.0 |
| 87.5° | 0.8 | 0.8 | 8.6 | 14.8 | 17.9 | 19.5 | 22.6 | 22.6 | 59.2 | 65.4 | 3.9 |
| 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° | 531.4 | 531.4 | 531.4 | 531.4 | 531.4 | 531.4 | 531.4 | 531.4 | 531.4 | 531.4 | 531.4 |
| 2.5° | 535.3 | 531.4 | 525.1 | 511.1 | 508.0 | 497.9 | 497.1 | 487.7 | 490.8 | 484.6 | 482.3 |
| 5° | 531.4 | 522.8 | 505.6 | 494.7 | 483.8 | 476.8 | 472.1 | 468.3 | 467.5 | 464.4 | 462.8 |
| 7.5° | 538.4 | 526.7 | 500.2 | 483.1 | 464.4 | 458.1 | 448.0 | 447.2 | 441.8 | 436.3 | 436.3 |
| 10° | 561.7 | 540.7 | 511.9 | 483.1 | 458.9 | 438.6 | 415.3 | 398.1 | 391.9 | 377.9 | 379.4 |
| 12.5° | 580.4 | 561.7 | 519.7 | 490.1 | 453.4 | 407.5 | 356.1 | 316.3 | 297.6 | 279.7 | 286.7 |
| 15° | 606.9 | 579.7 | 534.5 | 491.6 | 432.4 | 352.9 | 268.8 | 224.4 | 207.2 | 203.4 | 202.6 |
| 17.5° | 635.8 | 606.9 | 553.2 | 487.7 | 389.6 | 272.7 | 197.9 | 172.2 | 175.3 | 180.0 | 179.2 |
| 20° | 667.7 | 632.6 | 567.2 | 474.5 | 321.8 | 197.9 | 162.1 | 161.3 | 166.0 | 173.0 | 174.5 |
| 22.5° | 701.2 | 670.8 | 584.3 | 434.7 | 240.0 | 158.9 | 155.8 | 155.8 | 158.9 | 167.5 | 166.0 |
| 25° | 738.6 | 698.1 | 592.9 | 373.2 | 172.2 | 146.5 | 148.0 | 151.1 | 152.7 | 159.7 | 160.5 |
| 27.5° | 767.4 | 728.5 | 595.2 | 299.2 | 140.2 | 135.6 | 139.5 | 143.4 | 145.7 | 151.1 | 153.5 |
| 30° | 793.9 | 766.7 | 582.8 | 222.8 | 128.6 | 126.2 | 127.8 | 133.2 | 137.9 | 142.6 | 142.6 |
| 32.5° | 827.4 | 788.5 | 554.0 | 158.2 | 121.5 | 117.6 | 116.9 | 119.2 | 124.7 | 130.1 | 130.1 |
| 35° | 861.7 | 825.1 | 508.0 | 127.0 | 115.3 | 109.9 | 106.7 | 104.4 | 106.7 | 110.6 | 113.8 |
| 37.5° | 911.6 | 880.4 | 450.3 | 116.9 | 110.6 | 102.8 | 96.6 | 91.2 | 87.3 | 86.5 | 88.8 |
| 40° | 982.5 | 942.7 | 376.3 | 109.9 | 105.2 | 95.8 | 86.5 | 77.1 | 68.6 | 63.1 | 63.9 |
| 42.5° | 1090.0 | 1034.7 | 296.1 | 106.0 | 101.3 | 88.0 | 74.8 | 61.6 | 50.6 | 45.2 | 45.2 |
| 45° | 1243.5 | 1156.2 | 217.4 | 102.1 | 96.6 | 78.7 | 61.6 | 46.0 | 35.1 | 31.9 | 32.7 |
| 47.5° | 1474.9 | 1302.7 | 155.8 | 95.8 | 90.4 | 68.6 | 48.3 | 32.7 | 25.7 | 24.2 | 24.9 |
| 50° | 1777.2 | 1476.4 | 121.5 | 88.8 | 82.6 | 57.7 | 35.8 | 24.2 | 20.3 | 19.5 | 20.3 |
| 52.5° | 2094.3 | 1651.7 | 106.7 | 82.6 | 70.9 | 46.0 | 26.5 | 19.5 | 17.1 | 16.4 | 17.1 |
| 55° | 2365.4 | 1764.7 | 92.7 | 73.2 | 56.9 | 34.3 | 21.0 | 17.1 | 14.8 | 12.5 | 12.5 |
| 57.5° | 2639.7 | 1821.6 | 73.2 | 60.8 | 42.1 | 25.7 | 17.9 | 14.8 | 12.5 | 10.1 | 9.3 |
| 60° | 2862.5 | 1862.1 | 52.2 | 45.2 | 29.6 | 20.3 | 15.6 | 13.2 | 10.1 | 7.8 | 7.0 |
| 62.5° | 3009.0 | 1746.0 | 38.2 | 34.3 | 21.8 | 17.1 | 13.2 | 10.9 | 7.8 | 5.5 | 5.5 |
| 65° | 2936.5 | 1585.5 | 29.6 | 24.2 | 16.4 | 13.2 | 10.9 | 7.8 | 5.5 | 3.1 | 2.3 |
| 67.5° | 2635.0 | 1291.8 | 24.2 | 17.9 | 12.5 | 10.1 | 8.6 | 6.2 | 3.1 | 0.8 | 0.8 |
| 70° | 1965.7 | 946.6 | 19.5 | 13.2 | 10.1 | 7.8 | 6.2 | 3.9 | 1.6 | 0.8 | 0.0 |
| 72.5° | 1075.2 | 518.1 | 15.6 | 10.9 | 7.8 | 6.2 | 4.7 | 3.1 | 1.6 | 0.0 | 0.0 |
| 75° | 355.3 | 137.9 | 11.7 | 7.8 | 4.7 | 3.9 | 3.1 | 2.3 | 0.8 | 0.0 | 0.0 |
| 77.5° | 85.7 | 35.8 | 9.3 | 7.0 | 3.9 | 2.3 | 1.6 | 0.8 | 0.8 | 0.0 | 0.0 |
| 80° | 26.5 | 14.8 | 7.0 | 4.7 | 3.1 | 2.3 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 10.9 | 7.0 | 3.1 | 3.1 | 2.3 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 5.5 | 3.9 | 2.3 | 1.6 | 1.6 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.9 | 1.6 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 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)