

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: P482306

Luminaire Tested: **IFLD-S-SA6B-722-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482306
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-722-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

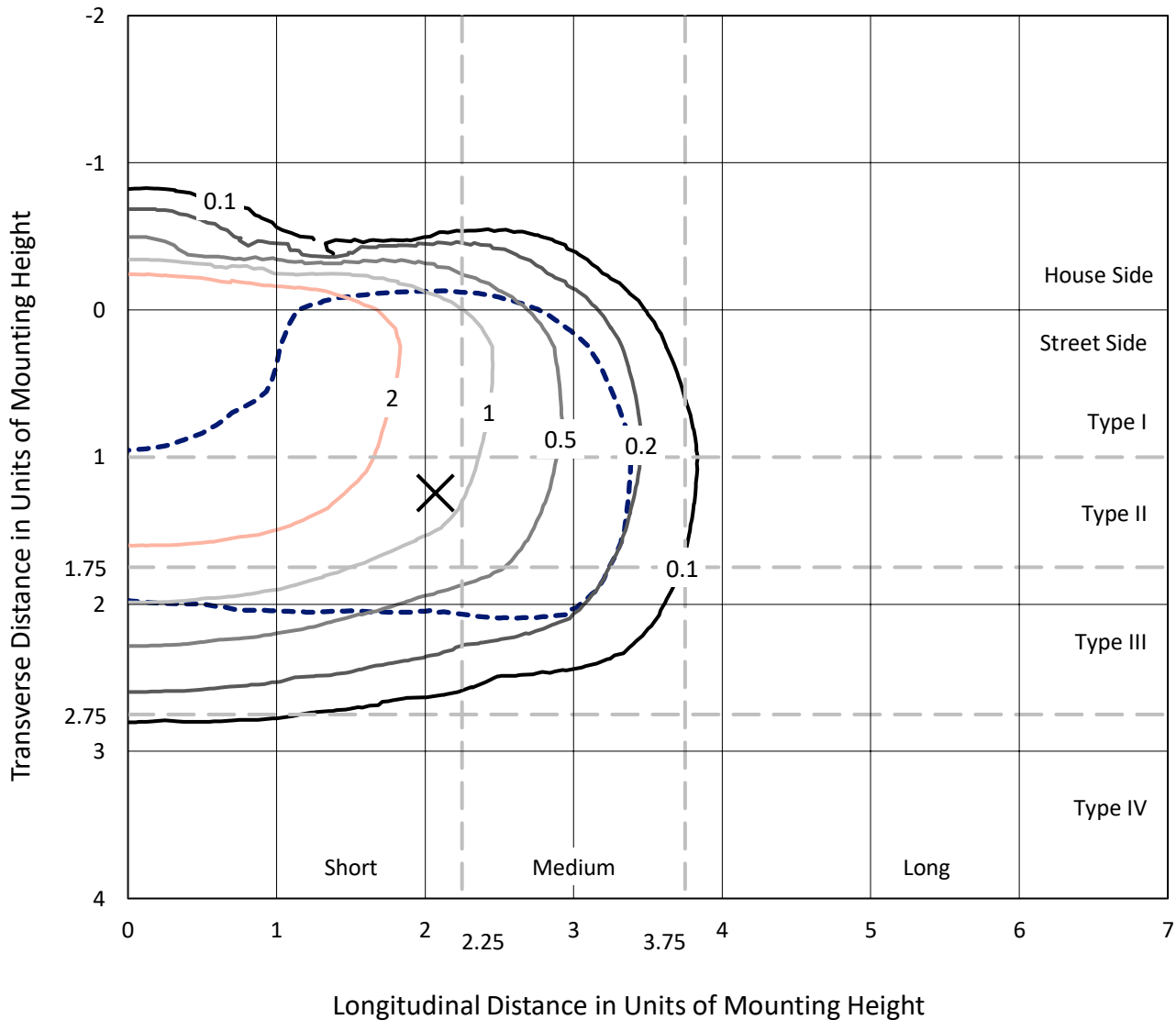
Lumens per Lamp: N/A
Luminaire Lumens: 18244.5 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 244.9
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

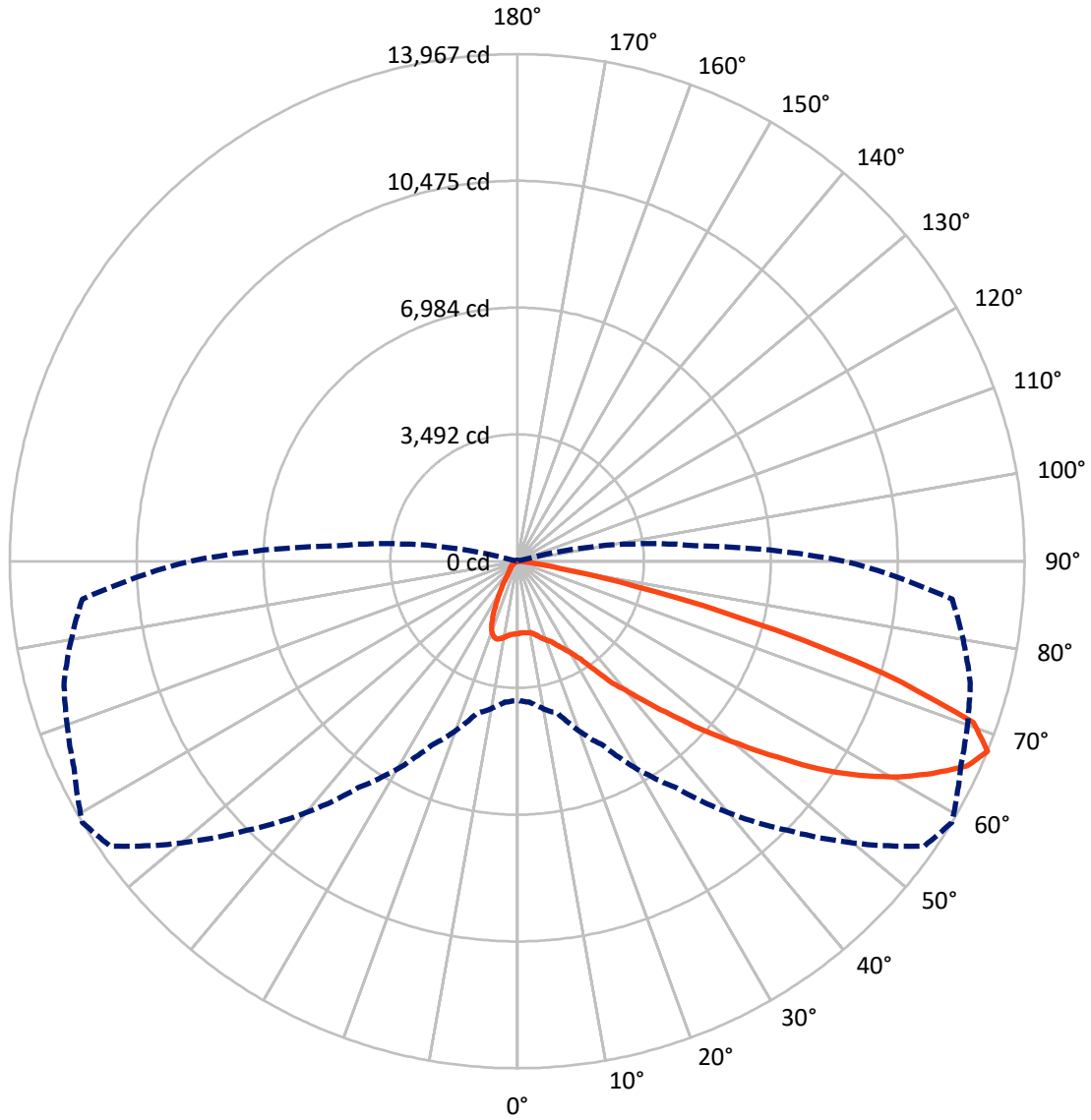
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2143.1 | 0.0 | 2143.1 |
| | % Fixture | 11.7 | 0.0 | 11.7 |
| Street Side | Lumens | 16101.4 | 0.0 | 16101.4 |
| | % Fixture | 88.3 | 0.0 | 88.3 |
| Total | Lumens | 18244.5 | 0.0 | 18244.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 190.1 | 1.0 |
| 10°-20° | 549.1 | 3.0 |
| 20°-30° | 959.6 | 5.3 |
| 30°-40° | 1689.6 | 9.3 |
| 40°-50° | 2986.6 | 16.4 |
| 50°-60° | 4728.9 | 25.9 |
| 60°-70° | 5245.6 | 28.8 |
| 70°-80° | 1820.1 | 10.0 |
| 80°-90° | 74.9 | 0.4 |
| 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° | 18244.5 | 100.0 |
| 0°-180° | 18244.5 | 100.0 |

Coefficient of Utilization



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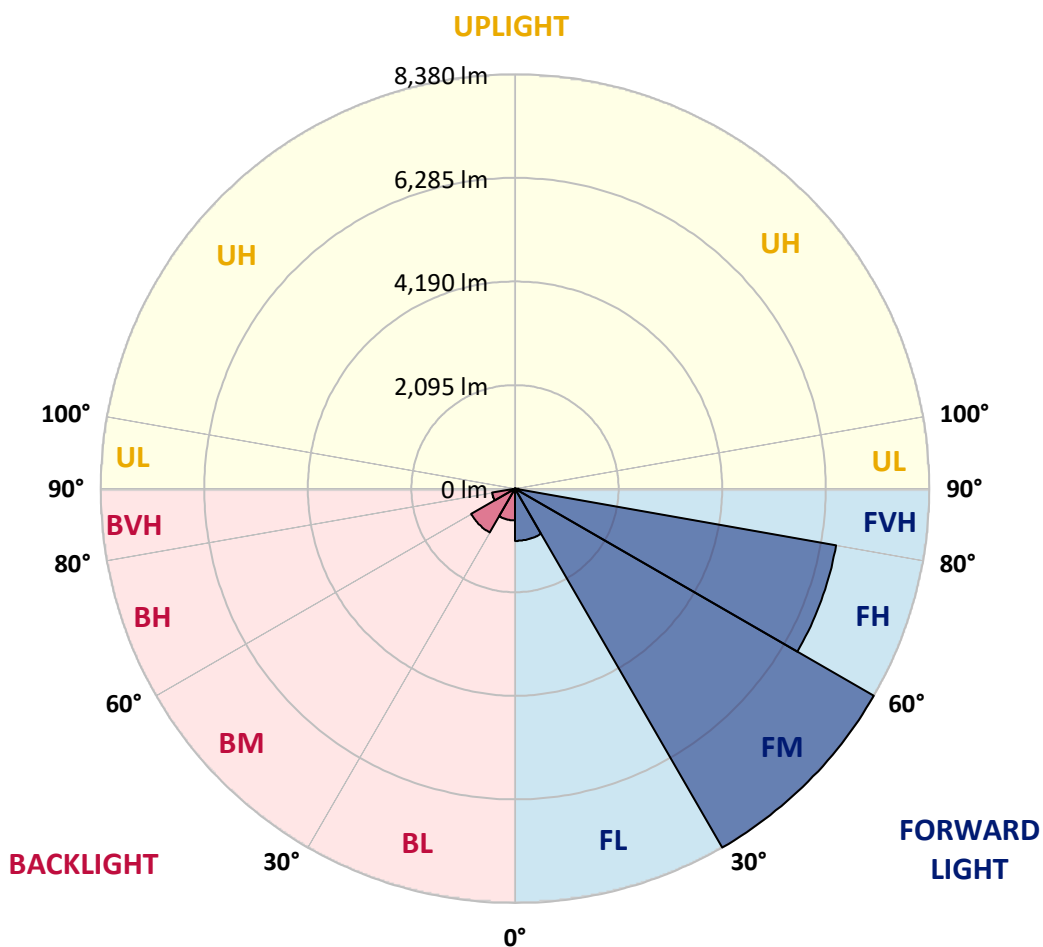
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1056.5 | 5.8 | | | |
| FM (30°-60°) | 8380.4 | 45.9 | | | |
| FH (60°-80°) | 6594.4 | 36.1 | | | G3/7500 |
| FVH (80°-90°) | 70.1 | 0.4 | | | G1/100 |
| BL (0°-30°) | 642.3 | 3.5 | B2/1000 | | |
| BM (30°-60°) | 1024.7 | 5.6 | B2/2500 | | |
| BH (60°-80°) | 471.3 | 2.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.8 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2001.1 | 2001.1 | 2001.1 | 2001.1 | 2001.1 | 2001.1 | 2001.1 | 2001.1 | 2001.1 | 2001.1 | 2001.1 |
| 2.5° | 1943.1 | 1915.4 | 1940.6 | 1943.1 | 1945.6 | 1968.3 | 1993.5 | 1975.9 | 1973.4 | 1993.5 | 2011.2 |
| 5° | 1865.0 | 1852.4 | 1882.6 | 1897.8 | 1923.0 | 1943.1 | 1983.5 | 1986.0 | 1988.5 | 2011.2 | 2041.4 |
| 7.5° | 1832.2 | 1802.0 | 1837.3 | 1854.9 | 1872.6 | 1920.4 | 1968.3 | 1993.5 | 2028.8 | 2056.5 | 2086.8 |
| 10° | 1766.7 | 1789.4 | 1799.5 | 1829.7 | 1880.1 | 1935.6 | 1993.5 | 2006.1 | 2084.3 | 2106.9 | 2180.0 |
| 12.5° | 1789.4 | 1804.5 | 1824.7 | 1832.2 | 1887.7 | 1970.9 | 2049.0 | 2054.0 | 2134.7 | 2233.0 | 2270.8 |
| 15° | 1847.4 | 1837.3 | 1844.8 | 1854.9 | 1920.4 | 1988.5 | 2114.5 | 2137.2 | 2212.8 | 2323.7 | 2416.9 |
| 17.5° | 1970.9 | 1953.2 | 1940.6 | 1938.1 | 1953.2 | 2016.2 | 2164.9 | 2233.0 | 2303.5 | 2454.7 | 2502.6 |
| 20° | 2280.8 | 2265.7 | 2215.3 | 2084.3 | 2038.9 | 2064.1 | 2225.4 | 2321.2 | 2419.5 | 2588.3 | 2666.4 |
| 22.5° | 2752.1 | 2767.3 | 2648.8 | 2464.8 | 2275.8 | 2177.5 | 2321.2 | 2404.3 | 2560.6 | 2774.8 | 2845.4 |
| 25° | 3309.1 | 3278.9 | 3135.2 | 2921.0 | 2623.6 | 2391.7 | 2474.9 | 2568.2 | 2759.7 | 2936.1 | 2963.8 |
| 27.5° | 3745.1 | 3709.8 | 3598.9 | 3339.4 | 3082.3 | 2706.8 | 2676.5 | 2734.5 | 2961.3 | 3120.1 | 3089.9 |
| 30° | 4176.1 | 4188.7 | 4113.1 | 3805.6 | 3488.1 | 3092.4 | 2900.8 | 2926.0 | 3099.9 | 3304.1 | 3236.0 |
| 32.5° | 4725.5 | 4695.3 | 4652.4 | 4382.7 | 4007.2 | 3583.8 | 3256.2 | 3215.9 | 3291.5 | 3561.1 | 3480.5 |
| 35° | 5237.1 | 5219.5 | 5161.5 | 4889.3 | 4561.7 | 4100.5 | 3780.4 | 3689.7 | 3672.0 | 3971.9 | 3830.8 |
| 37.5° | 5683.2 | 5653.0 | 5564.8 | 5390.9 | 5073.3 | 4685.2 | 4334.9 | 4254.2 | 4251.7 | 4458.4 | 4186.2 |
| 40° | 6058.7 | 6081.4 | 6071.3 | 5879.8 | 5705.9 | 5395.9 | 4859.1 | 4730.5 | 4720.5 | 4831.4 | 4672.6 |
| 42.5° | 6545.1 | 6598.1 | 6570.3 | 6532.5 | 6323.4 | 6202.4 | 5595.0 | 5398.4 | 5310.2 | 5537.0 | 5393.4 |
| 45° | 7281.1 | 7301.2 | 7318.9 | 7225.6 | 7016.4 | 7041.6 | 6356.1 | 6121.7 | 6099.1 | 6436.8 | 6114.2 |
| 47.5° | 7969.1 | 7916.2 | 8039.7 | 8044.7 | 8034.6 | 7918.7 | 7177.7 | 7003.8 | 7034.1 | 7291.1 | 6958.5 |
| 50° | 8140.5 | 8276.6 | 8616.8 | 8679.8 | 8843.6 | 8949.5 | 8090.1 | 7916.2 | 7966.6 | 8258.9 | 7878.4 |
| 52.5° | 8274.0 | 8480.7 | 8820.9 | 9282.2 | 9723.2 | 9975.2 | 9110.8 | 8969.6 | 8967.1 | 9146.1 | 8621.8 |
| 55° | 8508.4 | 8634.4 | 8929.3 | 9564.4 | 10403.7 | 10817.0 | 10340.7 | 10113.8 | 9909.7 | 10035.7 | 9393.0 |
| 57.5° | 8485.7 | 8533.6 | 8992.3 | 9776.1 | 10943.0 | 11694.0 | 11351.3 | 11134.5 | 10872.4 | 10799.4 | 10280.2 |
| 60° | 8087.5 | 8201.0 | 8715.1 | 9632.5 | 11275.7 | 12377.0 | 12293.9 | 12072.1 | 11621.0 | 11449.6 | 10960.7 |
| 62.5° | 7298.7 | 7449.9 | 7853.2 | 9128.4 | 10791.8 | 12412.3 | 12944.1 | 12860.9 | 12356.9 | 12049.4 | 11847.8 |
| 65° | 5915.1 | 5985.6 | 6449.4 | 7848.1 | 9698.0 | 11870.5 | 13712.8 | 13609.5 | 13145.7 | 12687.0 | 12304.0 |
| 67.5° | 3830.8 | 3898.9 | 4344.9 | 5602.6 | 7616.3 | 10471.7 | 13682.5 | 13967.3 | 13465.8 | 12913.9 | 12019.2 |
| 70° | 1809.6 | 1791.9 | 2207.8 | 3112.5 | 4879.2 | 7996.8 | 12757.6 | 13319.6 | 12893.7 | 11706.7 | 9982.8 |
| 72.5° | 551.9 | 599.8 | 917.4 | 1378.6 | 2505.1 | 4987.6 | 10000.4 | 10527.2 | 10393.6 | 9352.7 | 6663.6 |
| 75° | 244.5 | 264.6 | 360.4 | 564.5 | 1015.7 | 2046.5 | 6177.2 | 6645.9 | 6588.0 | 5516.9 | 3042.0 |
| 77.5° | 156.3 | 171.4 | 226.8 | 322.6 | 461.2 | 650.2 | 2845.4 | 3301.6 | 3200.7 | 1938.1 | 796.4 |
| 80° | 110.9 | 118.5 | 161.3 | 221.8 | 289.8 | 267.1 | 980.4 | 1164.4 | 1116.5 | 526.7 | 214.2 |
| 82.5° | 60.5 | 65.5 | 118.5 | 163.8 | 194.1 | 136.1 | 274.7 | 342.8 | 357.9 | 234.4 | 103.3 |
| 85° | 22.7 | 27.7 | 73.1 | 115.9 | 100.8 | 63.0 | 80.6 | 98.3 | 128.5 | 128.5 | 47.9 |
| 87.5° | 0.0 | 2.5 | 30.2 | 50.4 | 25.2 | 17.6 | 22.7 | 27.7 | 35.3 | 60.5 | 17.6 |
| 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° | 2001.1 | 2001.1 | 2001.1 | 2001.1 | 2001.1 | 2001.1 | 2001.1 | 2001.1 | 2001.1 | 2001.1 | 2001.1 |
| 2.5° | 2023.8 | 2006.1 | 2013.7 | 2026.3 | 1998.6 | 2013.7 | 1983.5 | 2006.1 | 2013.7 | 1983.5 | 1998.6 |
| 5° | 2049.0 | 2066.6 | 2056.5 | 2036.4 | 2018.7 | 2023.8 | 2016.2 | 1998.6 | 2013.7 | 2018.7 | 2008.7 |
| 7.5° | 2122.1 | 2101.9 | 2106.9 | 2084.3 | 2049.0 | 2046.5 | 1998.6 | 1986.0 | 1991.0 | 1996.1 | 1978.4 |
| 10° | 2190.1 | 2202.7 | 2177.5 | 2159.9 | 2101.9 | 2064.1 | 1998.6 | 1928.0 | 1920.4 | 1890.2 | 1915.4 |
| 12.5° | 2311.1 | 2280.8 | 2270.8 | 2212.8 | 2154.8 | 2028.8 | 1887.7 | 1779.3 | 1688.6 | 1655.8 | 1623.1 |
| 15° | 2411.9 | 2406.9 | 2389.2 | 2301.0 | 2167.4 | 1938.1 | 1670.9 | 1418.9 | 1245.0 | 1136.6 | 1121.5 |
| 17.5° | 2550.5 | 2527.8 | 2495.1 | 2356.5 | 2074.2 | 1701.2 | 1245.0 | 927.5 | 753.6 | 685.5 | 660.3 |
| 20° | 2656.4 | 2638.7 | 2593.4 | 2343.9 | 1905.3 | 1267.7 | 771.2 | 589.7 | 546.9 | 534.3 | 536.8 |
| 22.5° | 2810.1 | 2754.7 | 2669.0 | 2280.8 | 1597.9 | 844.3 | 554.5 | 526.7 | 519.2 | 509.1 | 511.6 |
| 25° | 2943.7 | 2893.3 | 2714.3 | 2172.5 | 1139.2 | 559.5 | 514.1 | 499.0 | 486.4 | 473.8 | 471.3 |
| 27.5° | 3062.1 | 2999.1 | 2762.2 | 1950.7 | 713.2 | 481.4 | 476.3 | 458.7 | 433.5 | 413.3 | 405.8 |
| 30° | 3178.1 | 3105.0 | 2774.8 | 1534.8 | 481.4 | 436.0 | 423.4 | 395.7 | 362.9 | 335.2 | 330.2 |
| 32.5° | 3372.1 | 3283.9 | 2757.2 | 1096.3 | 415.8 | 388.1 | 360.4 | 327.6 | 279.7 | 257.1 | 252.0 |
| 35° | 3674.6 | 3541.0 | 2734.5 | 645.2 | 373.0 | 342.8 | 299.9 | 257.1 | 221.8 | 199.1 | 194.1 |
| 37.5° | 4022.3 | 3790.5 | 2669.0 | 431.0 | 342.8 | 302.4 | 247.0 | 204.1 | 173.9 | 156.3 | 151.2 |
| 40° | 4539.0 | 4155.9 | 2416.9 | 352.8 | 305.0 | 257.1 | 199.1 | 161.3 | 138.6 | 126.0 | 121.0 |
| 42.5° | 5108.6 | 4574.3 | 2028.8 | 317.6 | 269.7 | 219.3 | 158.8 | 131.1 | 113.4 | 100.8 | 100.8 |
| 45° | 5791.6 | 5010.3 | 1565.1 | 289.8 | 239.4 | 181.5 | 131.1 | 105.9 | 90.7 | 80.6 | 75.6 |
| 47.5° | 6552.7 | 5406.0 | 1056.0 | 262.1 | 201.6 | 148.7 | 108.4 | 80.6 | 65.5 | 58.0 | 58.0 |
| 50° | 7233.2 | 5756.3 | 672.9 | 229.3 | 176.4 | 123.5 | 88.2 | 65.5 | 52.9 | 42.8 | 40.3 |
| 52.5° | 7850.6 | 6023.4 | 463.7 | 201.6 | 151.2 | 100.8 | 73.1 | 52.9 | 40.3 | 32.8 | 32.8 |
| 55° | 8483.2 | 6159.5 | 342.8 | 173.9 | 131.1 | 85.7 | 60.5 | 47.9 | 35.3 | 27.7 | 25.2 |
| 57.5° | 9002.4 | 6217.5 | 262.1 | 151.2 | 110.9 | 68.0 | 52.9 | 40.3 | 30.2 | 22.7 | 20.2 |
| 60° | 9446.0 | 6189.8 | 204.1 | 126.0 | 88.2 | 58.0 | 45.4 | 32.8 | 25.2 | 17.6 | 15.1 |
| 62.5° | 9705.6 | 6023.4 | 161.3 | 108.4 | 70.6 | 50.4 | 37.8 | 27.7 | 17.6 | 12.6 | 10.1 |
| 65° | 9710.6 | 5670.6 | 126.0 | 80.6 | 52.9 | 42.8 | 32.8 | 22.7 | 12.6 | 5.0 | 2.5 |
| 67.5° | 9015.0 | 4907.0 | 100.8 | 63.0 | 42.8 | 32.8 | 25.2 | 17.6 | 5.0 | 0.0 | 0.0 |
| 70° | 7051.7 | 3712.4 | 83.2 | 50.4 | 35.3 | 27.7 | 17.6 | 10.1 | 2.5 | 0.0 | 0.0 |
| 72.5° | 4493.6 | 2222.9 | 68.0 | 40.3 | 30.2 | 20.2 | 12.6 | 7.6 | 0.0 | 0.0 | 0.0 |
| 75° | 1880.1 | 685.5 | 52.9 | 35.3 | 22.7 | 15.1 | 10.1 | 2.5 | 0.0 | 0.0 | 0.0 |
| 77.5° | 483.9 | 216.7 | 42.8 | 30.2 | 22.7 | 12.6 | 7.6 | 2.5 | 0.0 | 0.0 | 0.0 |
| 80° | 143.7 | 80.6 | 35.3 | 25.2 | 17.6 | 10.1 | 5.0 | 2.5 | 0.0 | 0.0 | 0.0 |
| 82.5° | 65.5 | 47.9 | 30.2 | 22.7 | 15.1 | 10.1 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 25.2 | 15.1 | 15.1 | 12.6 | 12.6 | 7.6 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 10.1 | 5.0 | 5.0 | 5.0 | 2.5 | 2.5 | 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)