

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: P477451

Luminaire Tested: **IFLD-S-SA2C-760-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477451
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-760-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

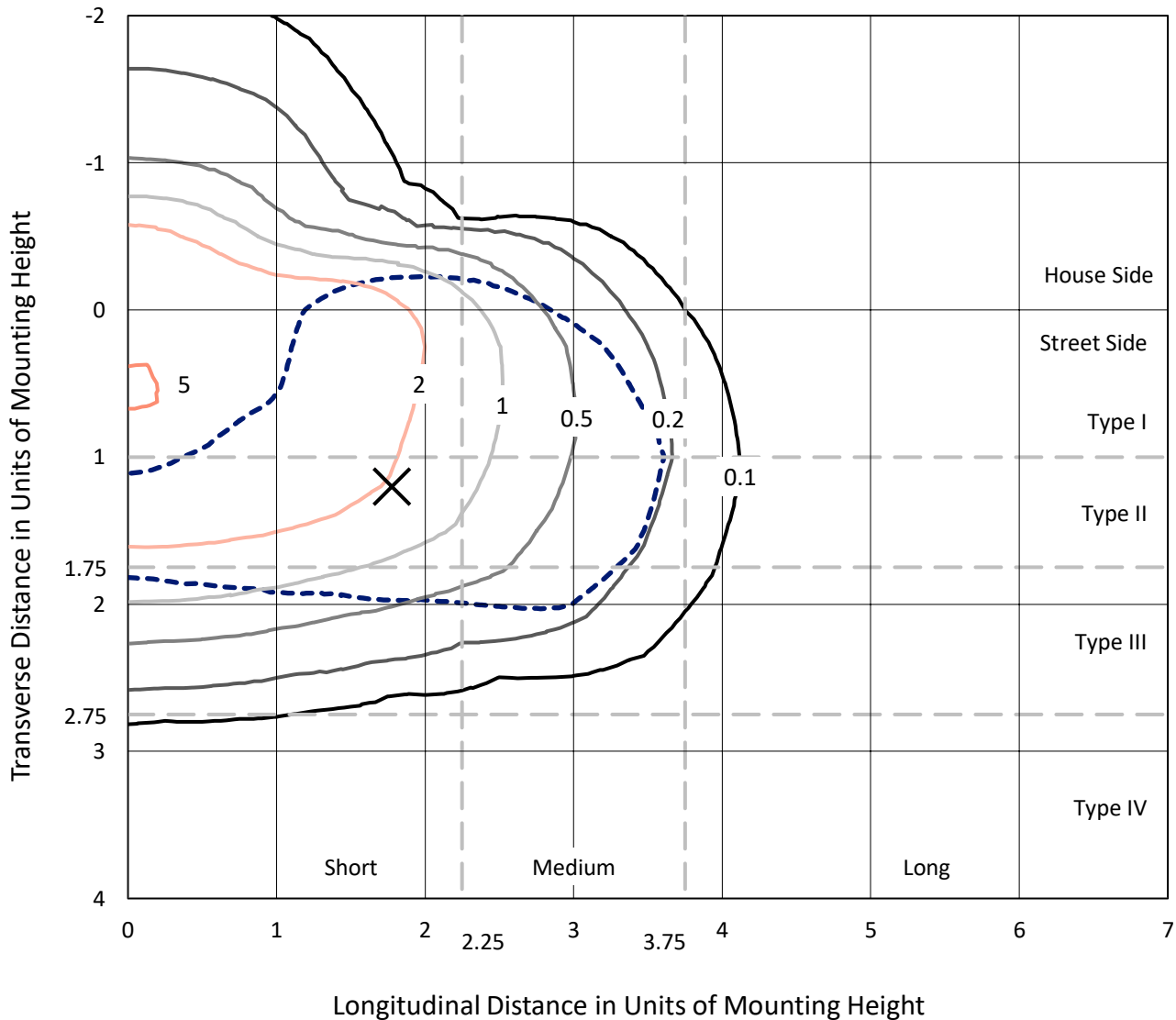
Lumens per Lamp: N/A
Luminaire Lumens: 14808.1 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (A_{in}): 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

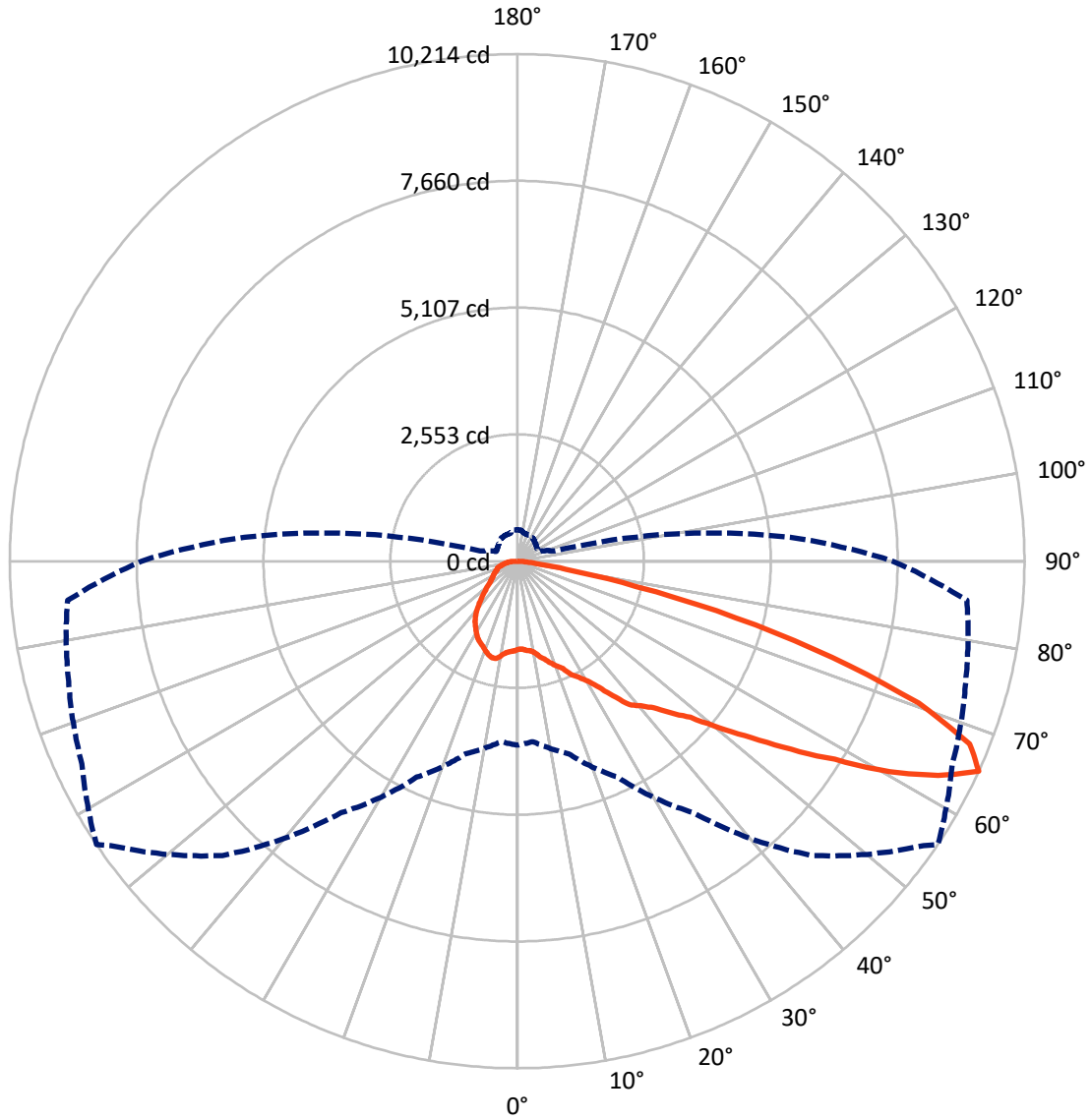
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3321.0 | 0.0 | 3321.0 |
| | % Fixture | 22.4 | 0.0 | 22.4 |
| Street Side | Lumens | 11487.2 | 0.0 | 11487.2 |
| | % Fixture | 77.6 | 0.0 | 77.6 |
| Total | Lumens | 14808.1 | 0.0 | 14808.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 176.1 | 1.2 |
| 10°-20° | 571.9 | 3.9 |
| 20°-30° | 1018.4 | 6.9 |
| 30°-40° | 1525.0 | 10.3 |
| 40°-50° | 2259.4 | 15.3 |
| 50°-60° | 3481.5 | 23.5 |
| 60°-70° | 3941.4 | 26.6 |
| 70°-80° | 1635.7 | 11.0 |
| 80°-90° | 198.7 | 1.3 |
| 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° | 14808.1 | 100.0 |
| 0°-180° | 14808.1 | 100.0 |

Coefficient of Utilization

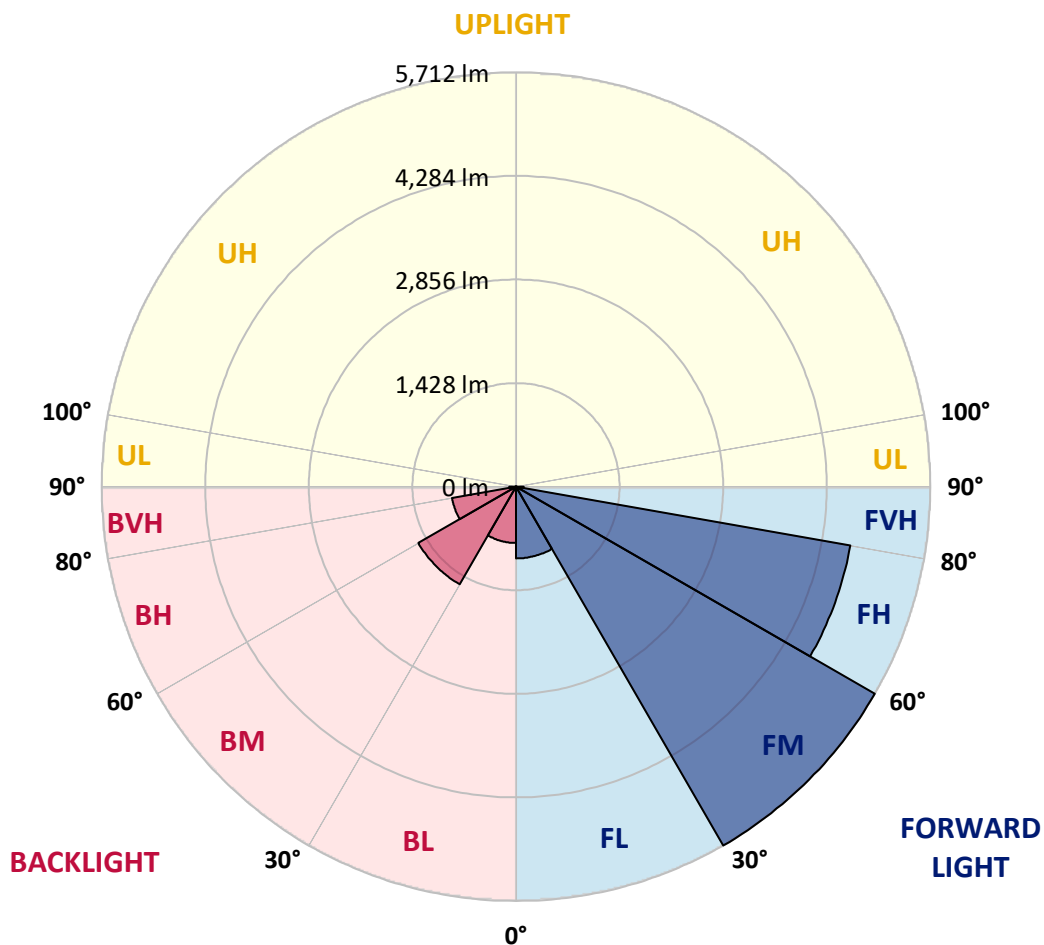


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 989.6 | 6.7 | | | |
| FM (30°-60°) | 5712.3 | 38.6 | | | |
| FH (60°-80°) | 4680.4 | 31.6 | | | G2/5000 |
| FVH (80°-90°) | 104.8 | 0.7 | | | G2/225 |
| BL (0°-30°) | 776.8 | 5.2 | B2/1000 | | |
| BM (30°-60°) | 1553.5 | 10.5 | B2/2500 | | |
| BH (60°-80°) | 896.8 | 6.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 93.9 | 0.6 | | | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| 0° | 1777.4 | 1777.4 | 1777.4 | 1777.4 | 1777.4 | 1777.4 | 1777.4 | 1777.4 | 1777.4 | 1777.4 |
| 2.5° | 1730.9 | 1740.2 | 1734.0 | 1752.6 | 1768.1 | 1768.1 | 1780.5 | 1771.2 | 1783.6 | 1800.6 |
| 5° | 1788.2 | 1751.1 | 1771.2 | 1780.5 | 1775.9 | 1783.6 | 1771.2 | 1802.2 | 1782.0 | 1814.6 |
| 7.5° | 1802.2 | 1816.1 | 1833.2 | 1817.7 | 1831.6 | 1823.9 | 1825.4 | 1820.8 | 1809.9 | 1836.3 |
| 10° | 1904.5 | 1884.3 | 1923.1 | 1899.8 | 1896.7 | 1893.6 | 1887.4 | 1864.2 | 1890.5 | 1892.1 |
| 12.5° | 2022.2 | 2003.6 | 2002.1 | 1983.5 | 2008.3 | 1963.4 | 1972.7 | 1960.3 | 1964.9 | 1971.1 |
| 15° | 2107.5 | 2099.7 | 2135.4 | 2113.7 | 2081.1 | 2061.0 | 2082.7 | 2048.6 | 2065.6 | 2062.5 |
| 17.5° | 2276.4 | 2274.8 | 2248.5 | 2212.8 | 2194.2 | 2164.8 | 2160.2 | 2146.2 | 2158.6 | 2152.4 |
| 20° | 2394.1 | 2411.2 | 2415.8 | 2374.0 | 2302.7 | 2270.2 | 2262.4 | 2251.6 | 2265.5 | 2260.9 |
| 22.5° | 2573.9 | 2547.6 | 2567.7 | 2494.9 | 2468.5 | 2391.0 | 2363.2 | 2347.7 | 2414.3 | 2397.2 |
| 25° | 2688.6 | 2716.5 | 2696.3 | 2671.5 | 2612.6 | 2516.6 | 2496.4 | 2530.5 | 2556.9 | 2538.3 |
| 27.5° | 2947.4 | 2919.5 | 2900.9 | 2826.5 | 2787.7 | 2687.0 | 2663.8 | 2651.4 | 2657.6 | 2668.4 |
| 30° | 3144.2 | 3159.7 | 3117.8 | 3065.1 | 2967.5 | 2865.2 | 2811.0 | 2800.1 | 2778.4 | 2759.9 |
| 32.5° | 3424.6 | 3401.4 | 3376.6 | 3342.5 | 3258.8 | 3124.0 | 3071.3 | 3031.0 | 2966.0 | 2879.2 |
| 35° | 3559.5 | 3626.1 | 3607.5 | 3516.1 | 3452.5 | 3401.4 | 3385.9 | 3323.9 | 3269.7 | 3133.3 |
| 37.5° | 3784.1 | 3812.0 | 3785.7 | 3756.3 | 3726.8 | 3672.6 | 3654.0 | 3671.0 | 3564.1 | 3339.4 |
| 40° | 3929.8 | 3988.7 | 4042.9 | 3960.8 | 3954.6 | 3965.4 | 3850.8 | 3830.6 | 3610.6 | 3492.8 |
| 42.5° | 4227.3 | 4252.1 | 4263.0 | 4259.9 | 4295.5 | 4295.5 | 4077.0 | 4033.6 | 3877.1 | 3781.0 |
| 45° | 4620.9 | 4641.1 | 4679.8 | 4707.7 | 4667.4 | 4687.6 | 4376.1 | 4359.0 | 4219.6 | 4201.0 |
| 47.5° | 4961.8 | 5009.9 | 5096.7 | 5178.8 | 5231.5 | 5163.3 | 4822.4 | 4701.5 | 4665.9 | 4777.4 |
| 50° | 5259.4 | 5202.0 | 5405.0 | 5488.7 | 5719.6 | 5832.7 | 5315.2 | 5267.1 | 5209.8 | 5423.6 |
| 52.5° | 5288.8 | 5366.3 | 5653.0 | 5820.3 | 6296.1 | 6505.3 | 5919.5 | 5899.4 | 5829.6 | 6076.0 |
| 55° | 5499.6 | 5490.3 | 5778.5 | 6141.1 | 6706.7 | 7058.5 | 6706.7 | 6694.3 | 6542.4 | 6776.4 |
| 57.5° | 5463.9 | 5558.4 | 5786.2 | 6293.0 | 7077.1 | 7652.0 | 7619.4 | 7534.2 | 7321.9 | 7512.5 |
| 60° | 5343.1 | 5367.8 | 5645.2 | 6288.3 | 7292.5 | 8261.0 | 8605.0 | 8622.0 | 8188.1 | 8340.0 |
| 62.5° | 4658.1 | 4715.5 | 5067.2 | 5794.0 | 7139.0 | 8680.9 | 9567.3 | 9506.8 | 9159.7 | 8986.2 |
| 65° | 3705.1 | 3647.8 | 4013.5 | 4799.1 | 6184.5 | 8383.4 | 9988.8 | 10213.5 | 9668.0 | 9350.3 |
| 67.5° | 2271.7 | 2257.8 | 2609.5 | 3302.2 | 4627.1 | 7134.4 | 9652.5 | 9827.6 | 9527.0 | 9272.9 |
| 70° | 1170.0 | 1134.3 | 1354.4 | 1842.5 | 2908.6 | 5234.6 | 8400.4 | 8572.4 | 8859.1 | 8316.7 |
| 72.5° | 545.5 | 537.7 | 655.5 | 906.5 | 1481.4 | 3077.5 | 6505.3 | 6629.2 | 7233.6 | 7012.0 |
| 75° | 320.8 | 325.4 | 392.1 | 474.2 | 722.1 | 1450.4 | 4317.2 | 4557.4 | 5212.9 | 5053.3 |
| 77.5° | 240.2 | 240.2 | 278.9 | 330.1 | 421.5 | 561.0 | 2130.7 | 2448.4 | 3048.1 | 2741.3 |
| 80° | 176.7 | 179.8 | 213.8 | 247.9 | 292.9 | 289.8 | 846.1 | 991.7 | 1397.7 | 1194.7 |
| 82.5° | 137.9 | 142.6 | 165.8 | 184.4 | 206.1 | 175.1 | 347.1 | 373.5 | 574.9 | 457.1 |
| 85° | 96.1 | 99.2 | 130.2 | 125.5 | 125.5 | 97.6 | 144.1 | 151.9 | 227.8 | 216.9 |
| 87.5° | 23.2 | 26.3 | 63.5 | 69.7 | 52.7 | 29.4 | 44.9 | 51.1 | 82.1 | 94.5 |
| 90° | 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):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1777.4 | 0° | 1777.4 | 1777.4 | 1777.4 | 1777.4 | 1777.4 | 1777.4 | 1777.4 | 1777.4 | 1777.4 | 1777.4 |
| 1808.4 | 2.5° | 1785.1 | 1791.3 | 1817.7 | 1803.7 | 1811.5 | 1779.0 | 1805.3 | 1783.6 | 1802.2 | 1792.9 |
| 1822.3 | 5° | 1834.7 | 1820.8 | 1836.3 | 1825.4 | 1825.4 | 1837.8 | 1856.4 | 1842.5 | 1870.4 | 1858.0 |
| 1833.2 | 7.5° | 1854.9 | 1856.4 | 1865.7 | 1867.3 | 1859.5 | 1898.3 | 1899.8 | 1895.2 | 1921.5 | 1915.3 |
| 1907.6 | 10° | 1904.5 | 1906.0 | 1923.1 | 1932.4 | 1924.6 | 1938.6 | 1923.1 | 1910.7 | 1909.1 | 1902.9 |
| 1966.5 | 12.5° | 1983.5 | 1999.0 | 1995.9 | 2003.6 | 2005.2 | 1946.3 | 1910.7 | 1850.2 | 1842.5 | 1850.2 |
| 2053.2 | 15° | 2056.3 | 2050.1 | 2053.2 | 2068.7 | 2003.6 | 1909.1 | 1845.6 | 1794.4 | 1797.5 | 1799.1 |
| 2166.4 | 17.5° | 2143.1 | 2147.8 | 2152.4 | 2081.1 | 1961.8 | 1850.2 | 1794.4 | 1794.4 | 1779.0 | 1785.1 |
| 2245.4 | 20° | 2242.3 | 2223.7 | 2183.4 | 2082.7 | 1889.0 | 1782.0 | 1765.0 | 1765.0 | 1746.4 | 1734.0 |
| 2330.6 | 22.5° | 2319.8 | 2282.6 | 2222.1 | 2034.6 | 1823.9 | 1755.7 | 1713.9 | 1684.4 | 1662.7 | 1637.9 |
| 2425.1 | 25° | 2369.4 | 2349.2 | 2231.4 | 1985.0 | 1775.9 | 1686.0 | 1624.0 | 1579.1 | 1551.2 | 1518.6 |
| 2499.5 | 27.5° | 2445.3 | 2406.5 | 2257.8 | 1927.7 | 1723.2 | 1616.2 | 1520.2 | 1450.4 | 1397.7 | 1363.7 |
| 2612.6 | 30° | 2547.6 | 2491.8 | 2239.2 | 1845.6 | 1642.6 | 1495.4 | 1382.3 | 1292.4 | 1231.9 | 1204.0 |
| 2719.6 | 32.5° | 2631.2 | 2558.4 | 2223.7 | 1771.2 | 1552.7 | 1373.0 | 1222.6 | 1131.2 | 1097.1 | 1061.5 |
| 2899.3 | 35° | 2790.8 | 2646.7 | 2212.8 | 1729.4 | 1472.1 | 1250.5 | 1092.5 | 1013.4 | 970.1 | 917.4 |
| 3006.2 | 37.5° | 2913.3 | 2800.1 | 2186.5 | 1642.6 | 1368.3 | 1131.2 | 993.3 | 922.0 | 856.9 | 801.1 |
| 3254.2 | 40° | 3105.4 | 3014.0 | 2188.0 | 1520.2 | 1245.9 | 1028.9 | 915.8 | 841.4 | 759.3 | 711.3 |
| 3621.4 | 42.5° | 3466.5 | 3224.7 | 2197.3 | 1422.5 | 1108.0 | 945.3 | 846.1 | 757.8 | 675.6 | 635.3 |
| 4039.8 | 45° | 3909.7 | 3514.5 | 2140.0 | 1334.2 | 967.0 | 866.2 | 762.4 | 674.1 | 621.4 | 592.0 |
| 4608.5 | 47.5° | 4419.5 | 3798.1 | 2062.5 | 1168.4 | 849.2 | 782.6 | 684.9 | 633.8 | 595.0 | 578.0 |
| 5341.5 | 50° | 4989.7 | 4204.1 | 2040.8 | 1016.5 | 757.8 | 711.3 | 647.7 | 609.0 | 582.7 | 562.5 |
| 6167.4 | 52.5° | 5724.3 | 4676.7 | 1997.4 | 860.0 | 678.7 | 653.9 | 633.8 | 607.4 | 584.2 | 567.2 |
| 6937.6 | 55° | 6426.2 | 5200.5 | 1951.0 | 731.4 | 622.9 | 626.0 | 636.9 | 613.6 | 593.5 | 567.2 |
| 7800.7 | 57.5° | 7216.5 | 5735.1 | 1779.0 | 636.9 | 581.1 | 612.1 | 633.8 | 607.4 | 587.3 | 567.2 |
| 8684.0 | 60° | 7704.7 | 6035.7 | 1442.7 | 554.8 | 543.9 | 585.8 | 615.2 | 587.3 | 565.6 | 573.4 |
| 9090.0 | 62.5° | 7903.0 | 5877.7 | 1087.8 | 503.6 | 517.6 | 550.1 | 585.8 | 574.9 | 559.4 | 588.9 |
| 9085.4 | 65° | 7565.2 | 5513.5 | 777.9 | 460.2 | 481.9 | 514.5 | 559.4 | 571.8 | 576.5 | 633.8 |
| 8344.6 | 67.5° | 6731.5 | 4800.7 | 571.8 | 424.6 | 444.7 | 492.8 | 578.0 | 598.1 | 595.0 | 666.3 |
| 7002.7 | 70° | 5386.4 | 3754.7 | 446.3 | 395.2 | 430.8 | 509.8 | 604.3 | 604.3 | 582.7 | 666.3 |
| 5341.5 | 72.5° | 3919.0 | 2646.7 | 384.3 | 361.1 | 395.2 | 468.0 | 601.2 | 599.7 | 571.8 | 609.0 |
| 3401.4 | 75° | 2372.5 | 1540.3 | 339.4 | 327.0 | 339.4 | 401.3 | 574.9 | 565.6 | 526.9 | 523.8 |
| 1636.4 | 77.5° | 1182.4 | 774.8 | 277.4 | 289.8 | 296.0 | 336.3 | 505.2 | 519.1 | 466.4 | 454.0 |
| 646.2 | 80° | 499.0 | 337.8 | 230.9 | 249.5 | 249.5 | 283.6 | 419.9 | 429.2 | 387.4 | 364.2 |
| 255.7 | 82.5° | 227.8 | 193.7 | 196.8 | 216.9 | 203.0 | 220.0 | 333.2 | 344.0 | 314.6 | 275.8 |
| 108.5 | 85° | 96.1 | 110.0 | 150.3 | 170.5 | 150.3 | 142.6 | 229.3 | 241.7 | 204.5 | 170.5 |
| 46.5 | 87.5° | 43.4 | 60.4 | 94.5 | 124.0 | 75.9 | 66.6 | 122.4 | 127.1 | 102.3 | 75.9 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END O



| <u>180°</u> |
|-------------|
| 1777.4 |
| 1775.9 |
| 1840.9 |
| 1906.0 |
| 1902.9 |
| 1853.3 |
| 1820.8 |
| 1786.7 |
| 1715.4 |
| 1624.0 |
| 1524.8 |
| 1379.2 |
| 1219.5 |
| 1059.9 |
| 912.7 |
| 802.7 |
| 715.9 |
| 638.4 |
| 598.1 |
| 574.9 |
| 565.6 |
| 565.6 |
| 565.6 |
| 565.6 |
| 567.2 |
| 581.1 |
| 633.8 |
| 671.0 |
| 652.4 |
| 587.3 |
| 517.6 |
| 446.3 |
| 356.4 |
| 269.6 |
| 172.0 |
| 71.3 |
| 0.0 |

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