

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: P477373

Luminaire Tested: **IFLD-S-SA2C-740-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477373
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-740-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

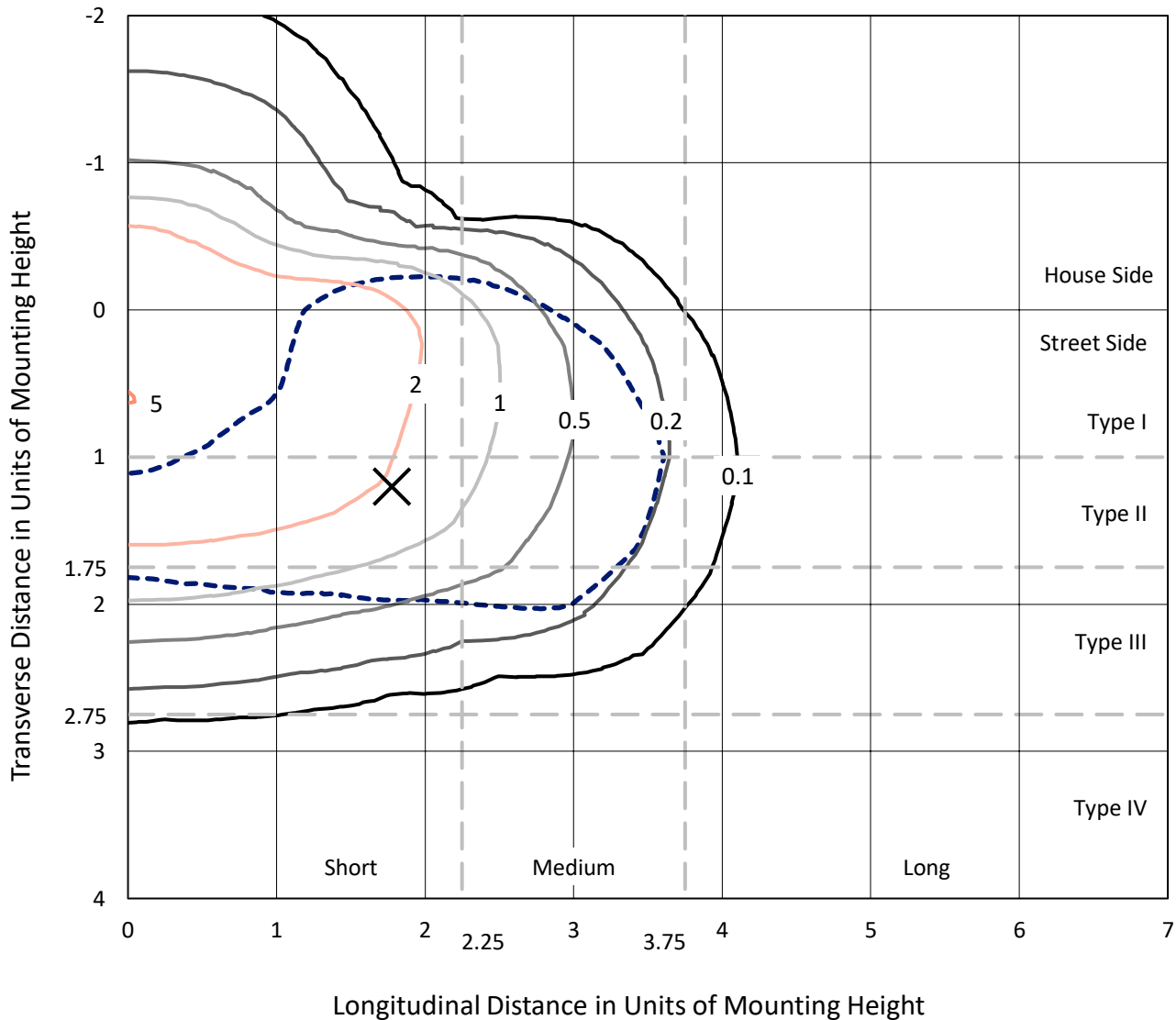
Lumens per Lamp: N/A
Luminaire Lumens: 14476.6 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

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

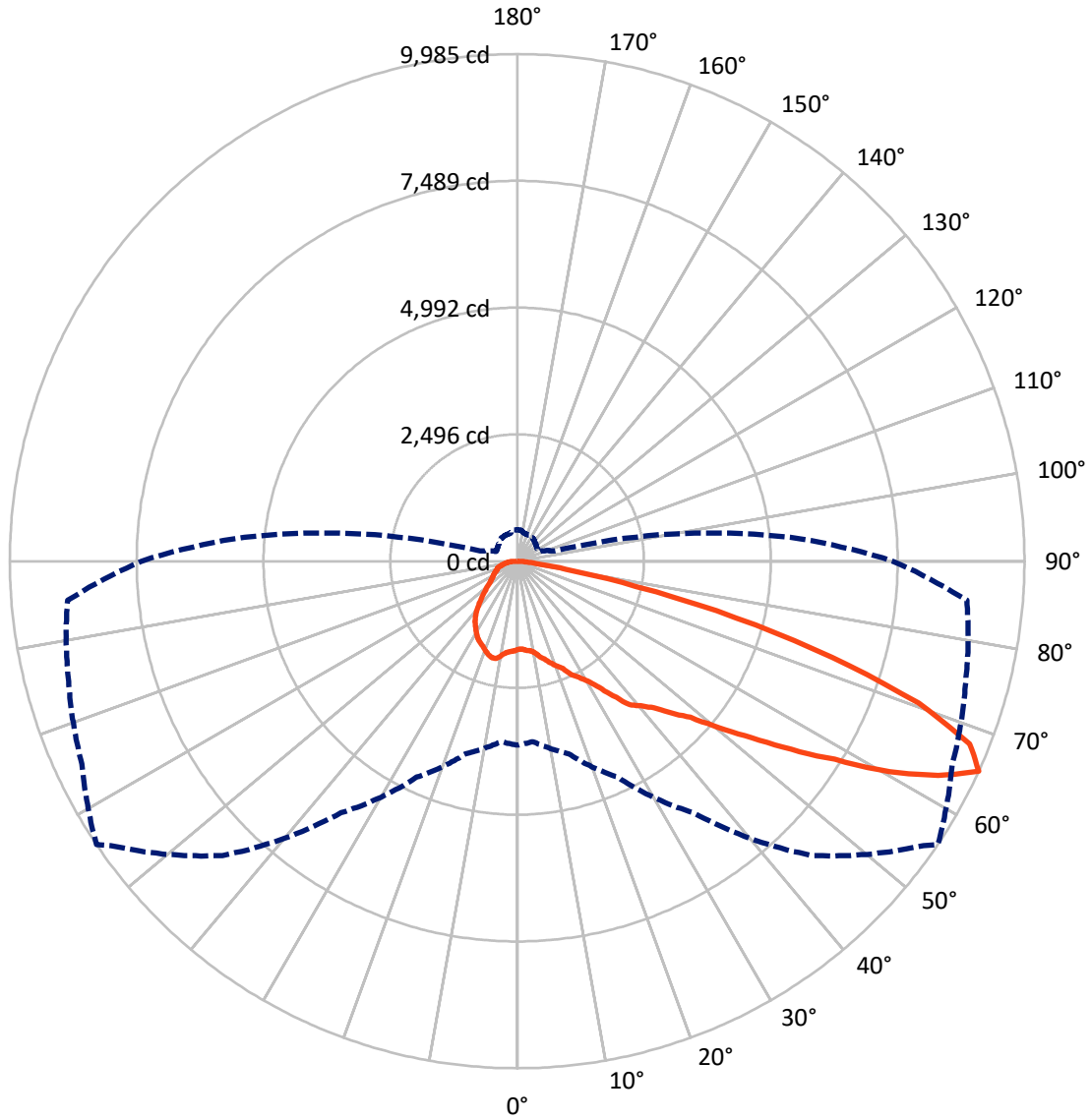
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 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 | 3246.6 | 0.0 | 3246.6 |
| | % Fixture | 22.4 | 0.0 | 22.4 |
| Street Side | Lumens | 11230.0 | 0.0 | 11230.0 |
| | % Fixture | 77.6 | 0.0 | 77.6 |
| Total | Lumens | 14476.6 | 0.0 | 14476.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 172.2 | 1.2 |
| 10°-20° | 559.1 | 3.9 |
| 20°-30° | 995.6 | 6.9 |
| 30°-40° | 1490.8 | 10.3 |
| 40°-50° | 2208.8 | 15.3 |
| 50°-60° | 3403.5 | 23.5 |
| 60°-70° | 3853.2 | 26.6 |
| 70°-80° | 1599.1 | 11.0 |
| 80°-90° | 194.3 | 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° | 14476.6 | 100.0 |
| 0°-180° | 14476.6 | 100.0 |

Coefficient of Utilization

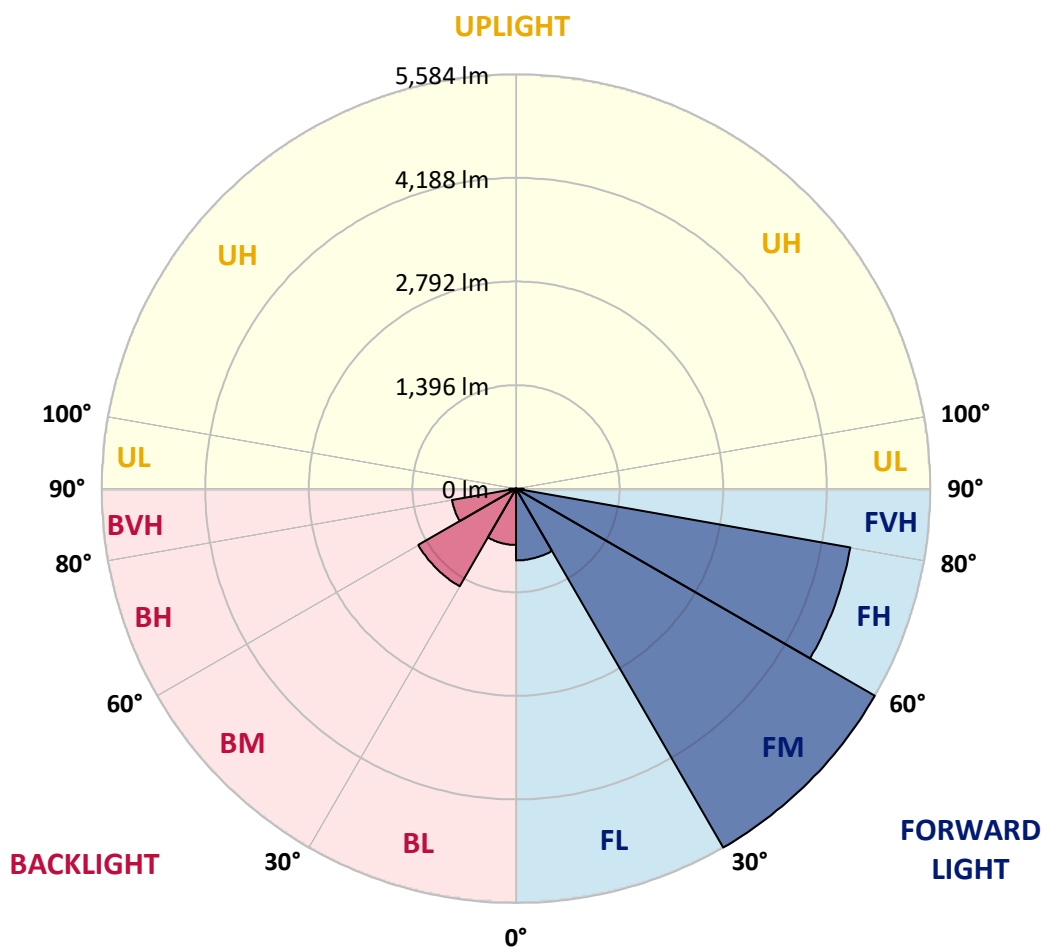


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 967.5 | 6.7 | | | |
| FM (30°-60°) | 5584.4 | 38.6 | | | |
| FH (60°-80°) | 4575.6 | 31.6 | | | G2/5000 |
| FVH (80°-90°) | 102.5 | 0.7 | | | G2/225 |
| BL (0°-30°) | 759.4 | 5.2 | B2/1000 | | |
| BM (30°-60°) | 1518.7 | 10.5 | B2/2500 | | |
| BH (60°-80°) | 876.7 | 6.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 91.8 | 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° | 1737.6 | 1737.6 | 1737.6 | 1737.6 | 1737.6 | 1737.6 | 1737.6 | 1737.6 | 1737.6 | 1737.6 |
| 2.5° | 1692.2 | 1701.3 | 1695.2 | 1713.4 | 1728.5 | 1728.5 | 1740.6 | 1731.6 | 1743.7 | 1760.3 |
| 5° | 1748.2 | 1711.9 | 1731.6 | 1740.6 | 1736.1 | 1743.7 | 1731.6 | 1761.8 | 1742.2 | 1774.0 |
| 7.5° | 1761.8 | 1775.5 | 1792.1 | 1777.0 | 1790.6 | 1783.1 | 1784.6 | 1780.0 | 1769.4 | 1795.2 |
| 10° | 1861.8 | 1842.1 | 1880.0 | 1857.3 | 1854.3 | 1851.2 | 1845.2 | 1822.4 | 1848.2 | 1849.7 |
| 12.5° | 1977.0 | 1958.8 | 1957.3 | 1939.1 | 1963.3 | 1919.4 | 1928.5 | 1916.4 | 1920.9 | 1927.0 |
| 15° | 2060.3 | 2052.7 | 2087.6 | 2066.3 | 2034.5 | 2014.8 | 2036.0 | 2002.7 | 2019.4 | 2016.4 |
| 17.5° | 2225.4 | 2223.9 | 2198.1 | 2163.3 | 2145.1 | 2116.3 | 2111.8 | 2098.2 | 2110.3 | 2104.2 |
| 20° | 2340.5 | 2357.2 | 2361.8 | 2320.9 | 2251.2 | 2219.4 | 2211.8 | 2201.2 | 2214.8 | 2210.3 |
| 22.5° | 2516.3 | 2490.5 | 2510.2 | 2439.0 | 2413.3 | 2337.5 | 2310.2 | 2295.1 | 2360.2 | 2343.6 |
| 25° | 2628.4 | 2655.6 | 2636.0 | 2611.7 | 2554.1 | 2460.2 | 2440.5 | 2473.9 | 2499.6 | 2481.4 |
| 27.5° | 2881.4 | 2854.1 | 2835.9 | 2763.2 | 2725.3 | 2626.9 | 2604.1 | 2592.0 | 2598.1 | 2608.7 |
| 30° | 3073.8 | 3088.9 | 3048.0 | 2996.5 | 2901.1 | 2801.1 | 2748.1 | 2737.5 | 2716.2 | 2698.1 |
| 32.5° | 3348.0 | 3325.2 | 3301.0 | 3267.7 | 3185.9 | 3054.1 | 3002.6 | 2963.2 | 2899.6 | 2814.7 |
| 35° | 3479.8 | 3544.9 | 3526.7 | 3437.3 | 3375.2 | 3325.2 | 3310.1 | 3249.5 | 3196.5 | 3063.2 |
| 37.5° | 3699.4 | 3726.7 | 3700.9 | 3672.2 | 3643.4 | 3590.4 | 3572.2 | 3588.8 | 3484.3 | 3264.6 |
| 40° | 3841.8 | 3899.4 | 3952.4 | 3872.1 | 3866.1 | 3876.7 | 3764.6 | 3744.9 | 3529.8 | 3414.6 |
| 42.5° | 4132.7 | 4156.9 | 4167.5 | 4164.5 | 4199.3 | 4199.3 | 3985.7 | 3943.3 | 3790.3 | 3696.4 |
| 45° | 4517.5 | 4537.2 | 4575.0 | 4602.3 | 4562.9 | 4582.6 | 4278.1 | 4261.5 | 4125.1 | 4106.9 |
| 47.5° | 4850.8 | 4897.7 | 4982.6 | 5062.9 | 5114.4 | 5047.7 | 4714.4 | 4596.3 | 4561.4 | 4670.5 |
| 50° | 5141.6 | 5085.6 | 5284.0 | 5365.8 | 5591.6 | 5702.1 | 5196.2 | 5149.2 | 5093.2 | 5302.2 |
| 52.5° | 5170.4 | 5246.2 | 5526.4 | 5690.0 | 6155.1 | 6359.6 | 5787.0 | 5767.3 | 5699.1 | 5940.0 |
| 55° | 5376.4 | 5367.4 | 5649.1 | 6003.6 | 6556.6 | 6900.4 | 6556.6 | 6544.4 | 6396.0 | 6624.7 |
| 57.5° | 5341.6 | 5434.0 | 5656.7 | 6152.1 | 6918.6 | 7480.7 | 7448.8 | 7365.5 | 7158.0 | 7344.3 |
| 60° | 5223.4 | 5247.7 | 5518.8 | 6147.5 | 7129.2 | 8076.0 | 8412.3 | 8429.0 | 8004.8 | 8153.3 |
| 62.5° | 4553.8 | 4609.9 | 4953.8 | 5664.3 | 6979.2 | 8486.6 | 9353.1 | 9294.0 | 8954.7 | 8785.0 |
| 65° | 3622.2 | 3566.1 | 3923.6 | 4691.7 | 6046.0 | 8195.7 | 9765.2 | 9984.8 | 9451.6 | 9141.0 |
| 67.5° | 2220.9 | 2207.2 | 2551.1 | 3228.3 | 4523.5 | 6974.7 | 9436.4 | 9607.6 | 9313.7 | 9065.3 |
| 70° | 1143.8 | 1108.9 | 1324.0 | 1801.2 | 2843.5 | 5117.4 | 8212.4 | 8380.5 | 8660.8 | 8130.6 |
| 72.5° | 533.3 | 525.7 | 640.8 | 886.2 | 1448.3 | 3008.6 | 6359.6 | 6480.8 | 7071.6 | 6855.0 |
| 75° | 313.6 | 318.1 | 383.3 | 463.6 | 706.0 | 1418.0 | 4220.6 | 4455.4 | 5096.2 | 4940.1 |
| 77.5° | 234.8 | 234.8 | 272.7 | 322.7 | 412.1 | 548.4 | 2083.0 | 2393.6 | 2979.8 | 2679.9 |
| 80° | 172.7 | 175.7 | 209.1 | 242.4 | 286.3 | 283.3 | 827.1 | 969.5 | 1366.5 | 1168.0 |
| 82.5° | 134.8 | 139.4 | 162.1 | 180.3 | 201.5 | 171.2 | 339.3 | 365.1 | 562.0 | 446.9 |
| 85° | 93.9 | 97.0 | 127.3 | 122.7 | 122.7 | 95.4 | 140.9 | 148.5 | 222.7 | 212.1 |
| 87.5° | 22.7 | 25.8 | 62.1 | 68.2 | 51.5 | 28.8 | 43.9 | 50.0 | 80.3 | 92.4 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1737.6 | 0° | 1737.6 | 1737.6 | 1737.6 | 1737.6 | 1737.6 | 1737.6 | 1737.6 | 1737.6 | 1737.6 | 1737.6 |
| 1767.9 | 2.5° | 1745.2 | 1751.2 | 1777.0 | 1763.4 | 1770.9 | 1739.1 | 1764.9 | 1743.7 | 1761.8 | 1752.8 |
| 1781.5 | 5° | 1793.7 | 1780.0 | 1795.2 | 1784.6 | 1784.6 | 1796.7 | 1814.9 | 1801.2 | 1828.5 | 1816.4 |
| 1792.1 | 7.5° | 1813.4 | 1814.9 | 1824.0 | 1825.5 | 1817.9 | 1855.8 | 1857.3 | 1852.7 | 1878.5 | 1872.4 |
| 1864.9 | 10° | 1861.8 | 1863.3 | 1880.0 | 1889.1 | 1881.5 | 1895.2 | 1880.0 | 1867.9 | 1866.4 | 1860.3 |
| 1922.4 | 12.5° | 1939.1 | 1954.2 | 1951.2 | 1958.8 | 1960.3 | 1902.7 | 1867.9 | 1808.8 | 1801.2 | 1808.8 |
| 2007.3 | 15° | 2010.3 | 2004.2 | 2007.3 | 2022.4 | 1958.8 | 1866.4 | 1804.3 | 1754.3 | 1757.3 | 1758.8 |
| 2117.9 | 17.5° | 2095.1 | 2099.7 | 2104.2 | 2034.5 | 1917.9 | 1808.8 | 1754.3 | 1754.3 | 1739.1 | 1745.2 |
| 2195.1 | 20° | 2192.1 | 2173.9 | 2134.5 | 2036.0 | 1846.7 | 1742.2 | 1725.5 | 1725.5 | 1707.3 | 1695.2 |
| 2278.4 | 22.5° | 2267.8 | 2231.5 | 2172.4 | 1989.1 | 1783.1 | 1716.4 | 1675.5 | 1646.7 | 1625.5 | 1601.3 |
| 2370.8 | 25° | 2316.3 | 2296.6 | 2181.5 | 1940.6 | 1736.1 | 1648.2 | 1587.6 | 1543.7 | 1516.4 | 1484.6 |
| 2443.6 | 27.5° | 2390.5 | 2352.7 | 2207.2 | 1884.6 | 1684.6 | 1580.1 | 1486.1 | 1418.0 | 1366.5 | 1333.1 |
| 2554.1 | 30° | 2490.5 | 2436.0 | 2189.1 | 1804.3 | 1605.8 | 1461.9 | 1351.3 | 1263.4 | 1204.4 | 1177.1 |
| 2658.7 | 32.5° | 2572.3 | 2501.1 | 2173.9 | 1731.6 | 1517.9 | 1342.2 | 1195.3 | 1105.9 | 1072.6 | 1037.7 |
| 2834.4 | 35° | 2728.4 | 2587.5 | 2163.3 | 1690.6 | 1439.2 | 1222.5 | 1068.0 | 990.8 | 948.3 | 896.8 |
| 2938.9 | 37.5° | 2848.0 | 2737.5 | 2137.5 | 1605.8 | 1337.7 | 1105.9 | 971.1 | 901.4 | 837.7 | 783.2 |
| 3181.3 | 40° | 3035.9 | 2946.5 | 2139.1 | 1486.1 | 1218.0 | 1005.9 | 895.3 | 822.6 | 742.3 | 695.3 |
| 3540.4 | 42.5° | 3388.9 | 3152.5 | 2148.2 | 1390.7 | 1083.2 | 924.1 | 827.1 | 740.8 | 660.5 | 621.1 |
| 3949.4 | 45° | 3822.1 | 3435.8 | 2092.1 | 1304.3 | 945.3 | 846.8 | 745.3 | 659.0 | 607.5 | 578.7 |
| 4505.4 | 47.5° | 4320.5 | 3713.1 | 2016.4 | 1142.2 | 830.2 | 765.0 | 669.6 | 619.6 | 581.7 | 565.1 |
| 5221.9 | 50° | 4878.0 | 4110.0 | 1995.1 | 993.8 | 740.8 | 695.3 | 633.2 | 595.4 | 569.6 | 549.9 |
| 6029.4 | 52.5° | 5596.1 | 4572.0 | 1952.7 | 840.8 | 663.5 | 639.3 | 619.6 | 593.8 | 571.1 | 554.5 |
| 6782.3 | 55° | 6282.4 | 5084.1 | 1907.3 | 715.0 | 609.0 | 612.0 | 622.6 | 599.9 | 580.2 | 554.5 |
| 7626.1 | 57.5° | 7055.0 | 5606.7 | 1739.1 | 622.6 | 568.1 | 598.4 | 619.6 | 593.8 | 574.2 | 554.5 |
| 8489.6 | 60° | 7532.2 | 5900.6 | 1410.4 | 542.3 | 531.7 | 572.6 | 601.4 | 574.2 | 552.9 | 560.5 |
| 8886.5 | 62.5° | 7726.1 | 5746.1 | 1063.5 | 492.3 | 506.0 | 537.8 | 572.6 | 562.0 | 546.9 | 575.7 |
| 8882.0 | 65° | 7395.8 | 5390.1 | 760.5 | 449.9 | 471.1 | 503.0 | 546.9 | 559.0 | 563.5 | 619.6 |
| 8157.8 | 67.5° | 6580.8 | 4693.2 | 559.0 | 415.1 | 434.8 | 481.7 | 565.1 | 584.8 | 581.7 | 651.4 |
| 6845.9 | 70° | 5265.9 | 3670.6 | 436.3 | 386.3 | 421.1 | 498.4 | 590.8 | 590.8 | 569.6 | 651.4 |
| 5221.9 | 72.5° | 3831.2 | 2587.5 | 375.7 | 353.0 | 386.3 | 457.5 | 587.8 | 586.3 | 559.0 | 595.4 |
| 3325.2 | 75° | 2319.3 | 1505.8 | 331.8 | 319.6 | 331.8 | 392.4 | 562.0 | 552.9 | 515.1 | 512.0 |
| 1599.8 | 77.5° | 1155.9 | 757.5 | 271.2 | 283.3 | 289.3 | 328.7 | 493.9 | 507.5 | 456.0 | 443.9 |
| 631.7 | 80° | 487.8 | 330.3 | 225.7 | 243.9 | 243.9 | 277.2 | 410.5 | 419.6 | 378.7 | 356.0 |
| 250.0 | 82.5° | 222.7 | 189.4 | 192.4 | 212.1 | 198.5 | 215.1 | 325.7 | 336.3 | 307.5 | 269.7 |
| 106.0 | 85° | 93.9 | 107.6 | 146.9 | 166.6 | 146.9 | 139.4 | 224.2 | 236.3 | 200.0 | 166.6 |
| 45.4 | 87.5° | 42.4 | 59.1 | 92.4 | 121.2 | 74.2 | 65.1 | 119.7 | 124.2 | 100.0 | 74.2 |
| 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> |
|-------------|
| 1737.6 |
| 1736.1 |
| 1799.7 |
| 1863.3 |
| 1860.3 |
| 1811.8 |
| 1780.0 |
| 1746.7 |
| 1677.0 |
| 1587.6 |
| 1490.7 |
| 1348.3 |
| 1192.2 |
| 1036.2 |
| 892.3 |
| 784.7 |
| 699.9 |
| 624.1 |
| 584.8 |
| 562.0 |
| 552.9 |
| 552.9 |
| 552.9 |
| 552.9 |
| 554.5 |
| 568.1 |
| 619.6 |
| 656.0 |
| 637.8 |
| 574.2 |
| 506.0 |
| 436.3 |
| 348.4 |
| 263.6 |
| 168.2 |
| 69.7 |
| 0.0 |

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