

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: P846968

Luminaire Tested: **GLAN-SB2D-830-U-T3**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P846968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB2D-830-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17485 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

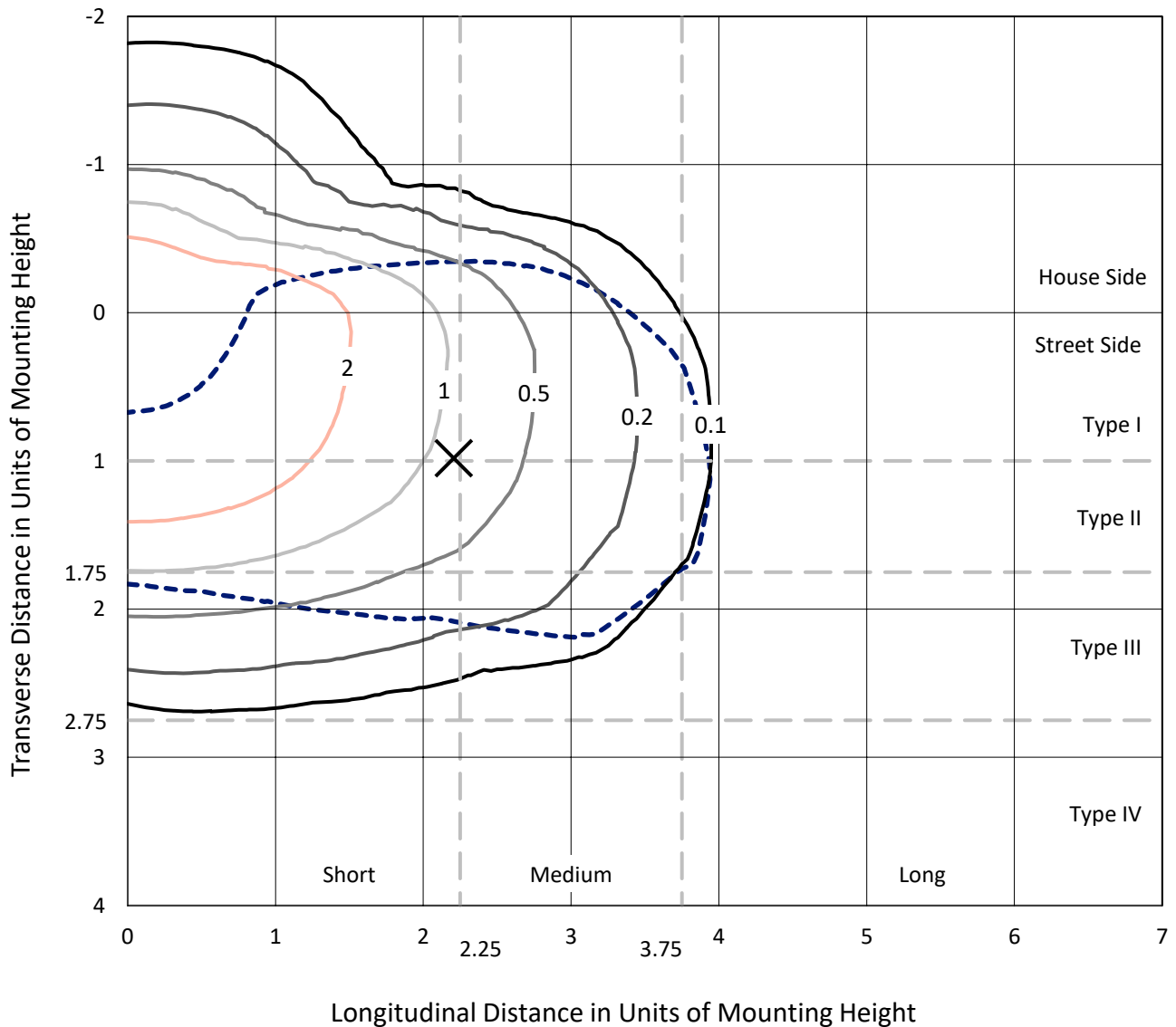
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

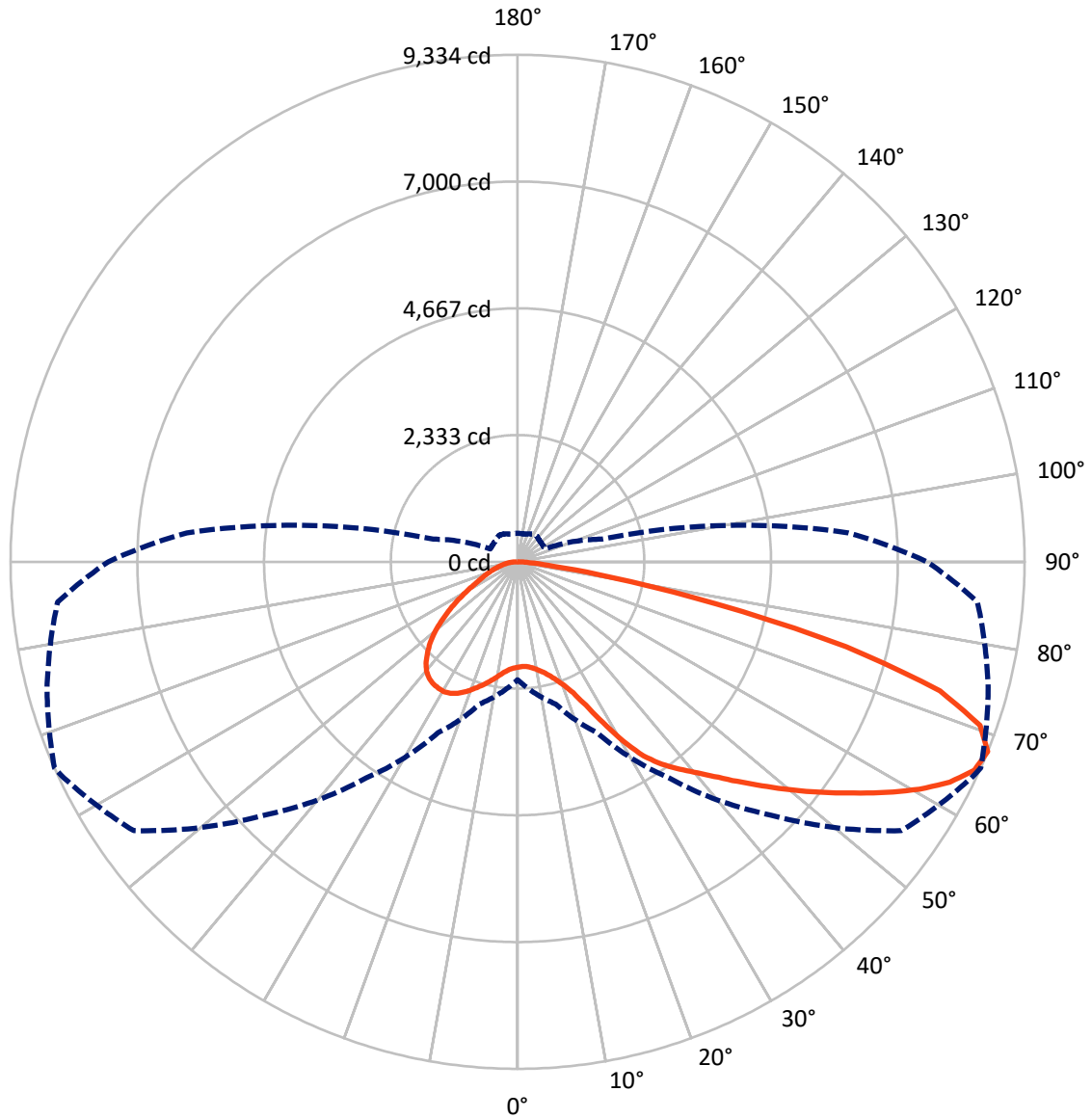
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4347.6 | 0.0 | 4347.6 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 13137.4 | 0.0 | 13137.4 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 17485.0 | 0.0 | 17485.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 192.3 | 1.1 |
| 10°-20° | 635.3 | 3.6 |
| 20°-30° | 1224.4 | 7.0 |
| 30°-40° | 2146.9 | 12.3 |
| 40°-50° | 3191.7 | 18.3 |
| 50°-60° | 4045.7 | 23.1 |
| 60°-70° | 3958.7 | 22.6 |
| 70°-80° | 1888.3 | 10.8 |
| 80°-90° | 201.8 | 1.2 |
| 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° | 17485.0 | 100.0 |
| 0°-180° | 17485.0 | 100.0 |

Coefficient of Utilization



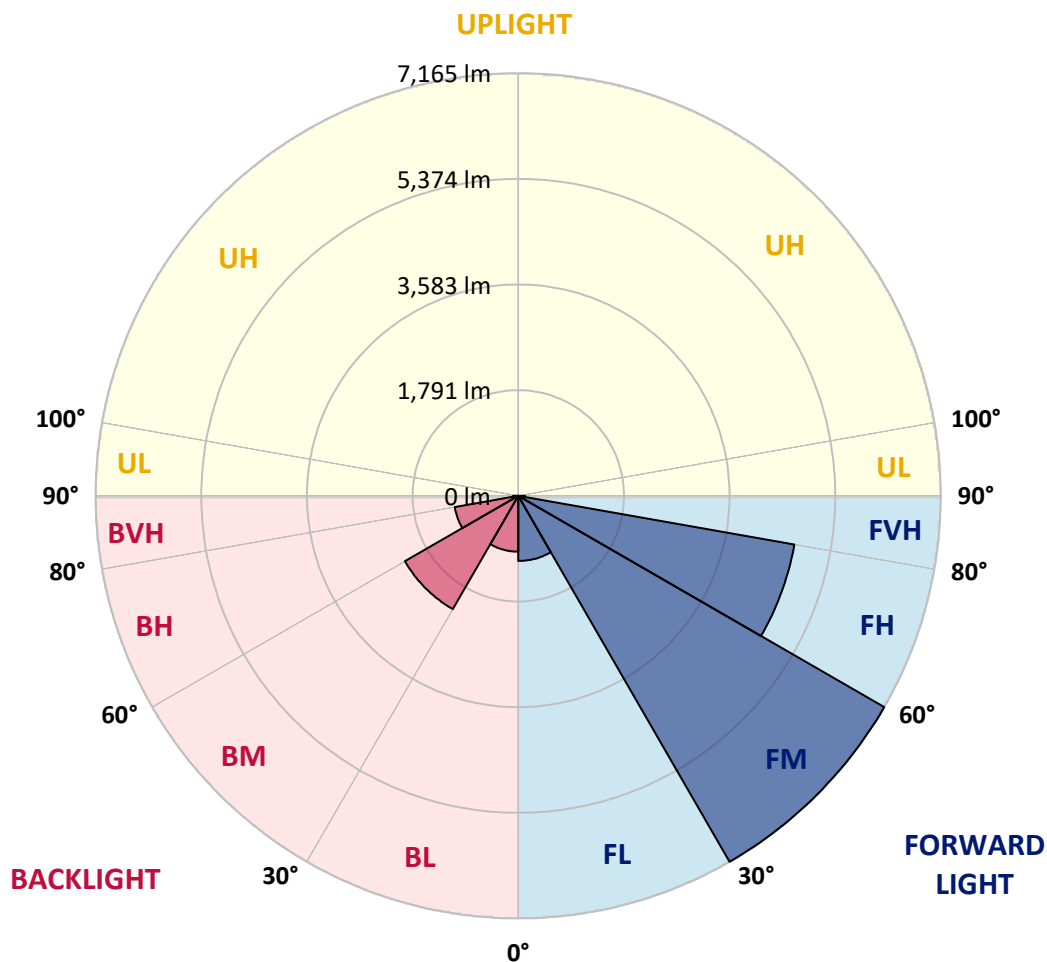
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1104.9 | 6.3 | | | |
| FM (30°-60°) | 7165.2 | 41.0 | | | |
| FH (60°-80°) | 4752.9 | 27.2 | | | G2/5000 |
| FVH (80°-90°) | 114.4 | 0.7 | | | G2/225 |
| BL (0°-30°) | 947.1 | 5.4 | B2/1000 | | |
| BM (30°-60°) | 2219.1 | 12.7 | B2/2500 | | |
| BH (60°-80°) | 1094.1 | 6.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 87.4 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1939.3 | 1939.3 | 1939.3 | 1939.3 | 1939.3 | 1939.3 | 1939.3 | 1939.3 | 1939.3 | 1939.3 |
| 2.5° | 1919.1 | 1930.1 | 1927.4 | 1922.8 | 1921.9 | 1923.7 | 1926.5 | 1929.2 | 1928.3 | 1932.9 |
| 5° | 1913.6 | 1924.6 | 1923.7 | 1923.7 | 1927.4 | 1934.7 | 1939.3 | 1943.9 | 1939.3 | 1944.8 |
| 7.5° | 1917.3 | 1925.5 | 1929.2 | 1932.9 | 1942.1 | 1955.9 | 1966.9 | 1977.0 | 1971.5 | 1977.9 |
| 10° | 1964.1 | 1970.6 | 1974.2 | 1974.2 | 1980.7 | 1996.3 | 2007.3 | 2025.7 | 2021.1 | 2031.2 |
| 12.5° | 2049.6 | 2056.0 | 2056.0 | 2052.3 | 2056.9 | 2067.0 | 2070.7 | 2090.9 | 2082.6 | 2099.2 |
| 15° | 2154.3 | 2167.1 | 2157.0 | 2150.6 | 2152.4 | 2162.6 | 2161.6 | 2177.3 | 2169.0 | 2182.8 |
| 17.5° | 2270.0 | 2286.6 | 2270.0 | 2269.1 | 2265.4 | 2276.5 | 2277.4 | 2291.2 | 2276.5 | 2286.6 |
| 20° | 2406.9 | 2429.9 | 2416.1 | 2420.7 | 2412.4 | 2417.0 | 2421.6 | 2441.8 | 2418.9 | 2426.2 |
| 22.5° | 2599.8 | 2627.4 | 2612.7 | 2630.2 | 2624.6 | 2621.0 | 2620.1 | 2655.9 | 2620.1 | 2622.8 |
| 25° | 2881.0 | 2914.0 | 2888.3 | 2912.2 | 2912.2 | 2924.1 | 2937.9 | 2983.8 | 2924.1 | 2906.7 |
| 27.5° | 3296.2 | 3329.3 | 3278.7 | 3293.4 | 3288.8 | 3318.2 | 3303.5 | 3417.5 | 3353.2 | 3324.7 |
| 30° | 3796.0 | 3854.7 | 3759.2 | 3755.5 | 3750.9 | 3797.8 | 3818.9 | 3894.3 | 3829.0 | 3800.5 |
| 32.5° | 4336.1 | 4397.7 | 4283.8 | 4250.7 | 4233.2 | 4261.7 | 4244.3 | 4304.9 | 4259.9 | 4215.8 |
| 35° | 4907.5 | 4968.2 | 4859.8 | 4795.5 | 4725.7 | 4665.9 | 4603.5 | 4619.1 | 4576.8 | 4509.8 |
| 37.5° | 5447.7 | 5558.9 | 5444.1 | 5375.2 | 5246.5 | 5129.9 | 4955.3 | 4882.7 | 4843.2 | 4781.7 |
| 40° | 5998.0 | 6061.4 | 5974.1 | 5915.3 | 5775.7 | 5592.9 | 5313.6 | 5160.2 | 5106.9 | 5047.2 |
| 42.5° | 6403.1 | 6463.8 | 6416.9 | 6376.5 | 6267.2 | 6055.0 | 5693.9 | 5501.9 | 5424.8 | 5357.7 |
| 45° | 6724.7 | 6769.7 | 6740.3 | 6755.0 | 6708.1 | 6502.4 | 6088.0 | 5868.5 | 5788.6 | 5706.8 |
| 47.5° | 6854.2 | 6902.0 | 6948.8 | 7036.1 | 7116.0 | 6964.5 | 6511.6 | 6265.3 | 6180.8 | 6097.2 |
| 50° | 6839.5 | 6888.2 | 7024.2 | 7209.7 | 7457.8 | 7407.3 | 6958.0 | 6687.9 | 6609.8 | 6514.3 |
| 52.5° | 6721.9 | 6777.0 | 6951.6 | 7260.3 | 7655.3 | 7738.9 | 7412.8 | 7124.3 | 7050.8 | 6936.9 |
| 55° | 6413.3 | 6446.3 | 6708.1 | 7145.4 | 7702.1 | 7970.4 | 7858.3 | 7589.2 | 7515.7 | 7356.7 |
| 57.5° | 5840.9 | 5888.7 | 6269.9 | 6835.8 | 7584.6 | 8127.5 | 8249.7 | 8077.9 | 8007.1 | 7778.4 |
| 60° | 5094.0 | 5170.3 | 5606.7 | 6315.9 | 7285.1 | 8126.6 | 8605.2 | 8558.4 | 8499.6 | 8193.6 |
| 62.5° | 4248.9 | 4337.1 | 4756.9 | 5580.9 | 6761.4 | 7896.0 | 8827.5 | 8960.7 | 8930.4 | 8576.7 |
| 65° | 3263.1 | 3323.8 | 3741.8 | 4630.1 | 5946.6 | 7400.8 | 8853.2 | 9235.4 | 9240.9 | 8867.9 |
| 67.5° | 2172.7 | 2347.2 | 2710.1 | 3474.4 | 4855.2 | 6591.5 | 8627.3 | 9280.4 | 9333.7 | 8968.1 |
| 70° | 1060.1 | 1289.8 | 1645.3 | 2258.1 | 3474.4 | 5350.3 | 8036.5 | 8911.1 | 9029.6 | 8675.9 |
| 72.5° | 440.0 | 514.5 | 708.3 | 1114.3 | 1994.4 | 3610.4 | 6849.6 | 7909.8 | 8129.3 | 7687.5 |
| 75° | 296.7 | 321.5 | 405.1 | 571.4 | 908.6 | 1780.4 | 4939.7 | 5897.9 | 6251.6 | 5806.0 |
| 77.5° | 228.7 | 244.4 | 294.9 | 399.6 | 540.2 | 673.4 | 2643.9 | 3554.3 | 3737.2 | 3459.7 |
| 80° | 180.1 | 192.0 | 220.5 | 291.2 | 383.1 | 360.1 | 901.2 | 1610.4 | 1716.1 | 1439.6 |
| 82.5° | 156.2 | 160.8 | 158.0 | 197.5 | 254.5 | 210.4 | 295.8 | 594.4 | 655.9 | 475.9 |
| 85° | 113.0 | 125.9 | 131.4 | 122.2 | 135.0 | 106.6 | 121.3 | 210.4 | 231.5 | 206.7 |
| 87.5° | 45.9 | 68.0 | 83.6 | 79.0 | 49.6 | 30.3 | 37.7 | 61.6 | 70.7 | 77.2 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1939.3 | 0° | 1939.3 | 1939.3 | 1939.3 | 1939.3 | 1939.3 | 1939.3 | 1939.3 | 1939.3 | 1939.3 | 1939.3 |
| 1940.2 | 2.5° | 1941.2 | 1947.6 | 1952.2 | 1957.7 | 1961.4 | 1966.9 | 1977.9 | 1984.3 | 1985.3 | 1989.8 |
| 1954.9 | 5° | 1958.6 | 1967.8 | 1977.9 | 1992.6 | 2009.1 | 2022.9 | 2044.0 | 2058.7 | 2064.3 | 2068.9 |
| 1990.8 | 7.5° | 1996.3 | 2009.1 | 2027.5 | 2053.2 | 2077.1 | 2095.5 | 2121.2 | 2138.7 | 2156.1 | 2162.6 |
| 2047.7 | 10° | 2052.3 | 2070.7 | 2097.3 | 2132.2 | 2158.0 | 2181.8 | 2208.5 | 2223.2 | 2240.6 | 2248.0 |
| 2115.7 | 12.5° | 2122.1 | 2141.4 | 2176.3 | 2225.0 | 2248.9 | 2265.4 | 2274.6 | 2271.0 | 2274.6 | 2281.1 |
| 2197.5 | 15° | 2202.1 | 2223.2 | 2262.7 | 2315.1 | 2331.6 | 2316.9 | 2296.7 | 2278.3 | 2275.6 | 2277.4 |
| 2296.7 | 17.5° | 2296.7 | 2312.3 | 2358.2 | 2402.3 | 2390.4 | 2329.8 | 2285.7 | 2256.3 | 2241.6 | 2237.0 |
| 2423.5 | 20° | 2429.0 | 2429.0 | 2466.6 | 2494.2 | 2414.3 | 2311.4 | 2242.5 | 2194.7 | 2164.4 | 2151.5 |
| 2596.2 | 22.5° | 2589.7 | 2575.0 | 2598.9 | 2579.6 | 2409.7 | 2259.9 | 2164.4 | 2081.7 | 2035.8 | 2017.4 |
| 2837.8 | 25° | 2793.7 | 2776.2 | 2769.8 | 2650.4 | 2376.6 | 2178.2 | 2022.9 | 1922.8 | 1882.4 | 1872.3 |
| 3186.0 | 27.5° | 3101.4 | 3057.3 | 2973.7 | 2689.0 | 2316.0 | 2049.6 | 1857.6 | 1764.8 | 1741.8 | 1742.7 |
| 3633.3 | 30° | 3511.2 | 3423.0 | 3218.1 | 2695.4 | 2216.8 | 1867.7 | 1688.5 | 1622.4 | 1611.4 | 1615.9 |
| 4009.1 | 32.5° | 3890.6 | 3807.0 | 3468.0 | 2666.0 | 2064.3 | 1689.4 | 1536.9 | 1492.8 | 1476.3 | 1481.8 |
| 4295.7 | 35° | 4188.2 | 4165.3 | 3699.5 | 2624.6 | 1876.8 | 1522.2 | 1401.0 | 1363.3 | 1331.2 | 1323.8 |
| 4565.8 | 37.5° | 4469.3 | 4460.2 | 3873.1 | 2566.8 | 1691.3 | 1403.7 | 1291.7 | 1242.0 | 1195.2 | 1169.5 |
| 4864.4 | 40° | 4778.0 | 4768.8 | 3987.0 | 2477.7 | 1526.8 | 1300.8 | 1193.4 | 1128.1 | 1070.3 | 1023.4 |
| 5202.4 | 42.5° | 5125.3 | 5071.1 | 4041.2 | 2350.0 | 1387.2 | 1213.6 | 1113.4 | 1025.2 | 949.0 | 905.8 |
| 5584.6 | 45° | 5504.7 | 5382.5 | 4040.3 | 2187.4 | 1269.6 | 1133.6 | 1028.0 | 903.1 | 832.3 | 791.9 |
| 5976.9 | 47.5° | 5907.1 | 5680.2 | 3990.7 | 2007.3 | 1155.7 | 1045.4 | 895.7 | 800.2 | 753.3 | 728.5 |
| 6403.1 | 50° | 6322.3 | 5958.5 | 3906.2 | 1800.6 | 1039.0 | 945.3 | 813.0 | 747.8 | 712.0 | 689.0 |
| 6825.7 | 52.5° | 6712.7 | 6211.1 | 3804.2 | 1566.3 | 920.5 | 847.9 | 776.3 | 725.8 | 688.1 | 662.4 |
| 7235.5 | 55° | 7075.6 | 6428.9 | 3660.0 | 1326.6 | 824.0 | 782.7 | 758.8 | 716.6 | 673.4 | 643.1 |
| 7651.6 | 57.5° | 7398.1 | 6570.3 | 3411.0 | 1101.5 | 755.1 | 737.7 | 740.5 | 700.9 | 651.3 | 625.6 |
| 8061.4 | 60° | 7666.3 | 6674.2 | 3042.6 | 892.9 | 699.1 | 693.6 | 712.0 | 671.5 | 613.7 | 584.3 |
| 8407.7 | 62.5° | 7827.1 | 6672.3 | 2590.7 | 731.3 | 651.3 | 653.2 | 674.3 | 634.8 | 576.0 | 548.4 |
| 8588.7 | 65° | 7813.3 | 6508.8 | 2094.6 | 625.6 | 605.4 | 607.2 | 634.8 | 594.4 | 544.8 | 528.2 |
| 8497.7 | 67.5° | 7536.8 | 6110.1 | 1606.8 | 556.7 | 554.9 | 563.1 | 595.3 | 566.8 | 525.5 | 523.6 |
| 7955.7 | 70° | 6788.1 | 5282.4 | 1157.5 | 501.6 | 502.5 | 514.5 | 556.7 | 549.4 | 515.4 | 519.0 |
| 6688.9 | 72.5° | 5443.1 | 4027.5 | 777.2 | 443.7 | 444.6 | 463.9 | 520.0 | 535.6 | 505.3 | 554.0 |
| 4745.9 | 75° | 3625.1 | 2511.7 | 499.8 | 382.2 | 383.1 | 407.9 | 487.8 | 508.9 | 477.7 | 552.1 |
| 2469.4 | 77.5° | 1741.8 | 1129.0 | 362.0 | 321.5 | 321.5 | 344.5 | 421.7 | 455.7 | 407.0 | 429.0 |
| 793.7 | 80° | 601.7 | 424.4 | 284.8 | 259.1 | 253.6 | 269.2 | 355.5 | 395.0 | 350.9 | 323.4 |
| 259.1 | 82.5° | 237.0 | 220.5 | 228.7 | 201.2 | 182.8 | 192.9 | 276.5 | 326.1 | 258.1 | 233.3 |
| 146.1 | 85° | 136.0 | 143.3 | 161.7 | 133.2 | 105.6 | 118.5 | 203.0 | 234.3 | 194.8 | 171.8 |
| 47.8 | 87.5° | 36.7 | 50.5 | 74.4 | 68.9 | 47.8 | 50.5 | 96.5 | 129.5 | 112.1 | 86.4 |
| 0.0 | 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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| 180° |
|--------|
| 1939.3 |
| 1988.9 |
| 2067.9 |
| 2163.5 |
| 2251.7 |
| 2282.9 |
| 2283.8 |
| 2243.4 |
| 2148.8 |
| 2014.6 |
| 1874.1 |
| 1745.5 |
| 1631.6 |
| 1489.2 |
| 1329.3 |
| 1170.4 |
| 1028.0 |
| 908.6 |
| 790.1 |
| 723.0 |
| 680.7 |
| 651.3 |
| 631.1 |
| 609.1 |
| 571.4 |
| 540.2 |
| 527.3 |
| 526.4 |
| 518.1 |
| 561.3 |
| 556.7 |
| 393.2 |
| 303.2 |
| 232.4 |
| 175.5 |
| 89.1 |
| 0.0 |

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