

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: P852644

Luminaire Tested: **GLAN-SB5B-835-U-T4FT-HSS**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P852644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB5B-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17832 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

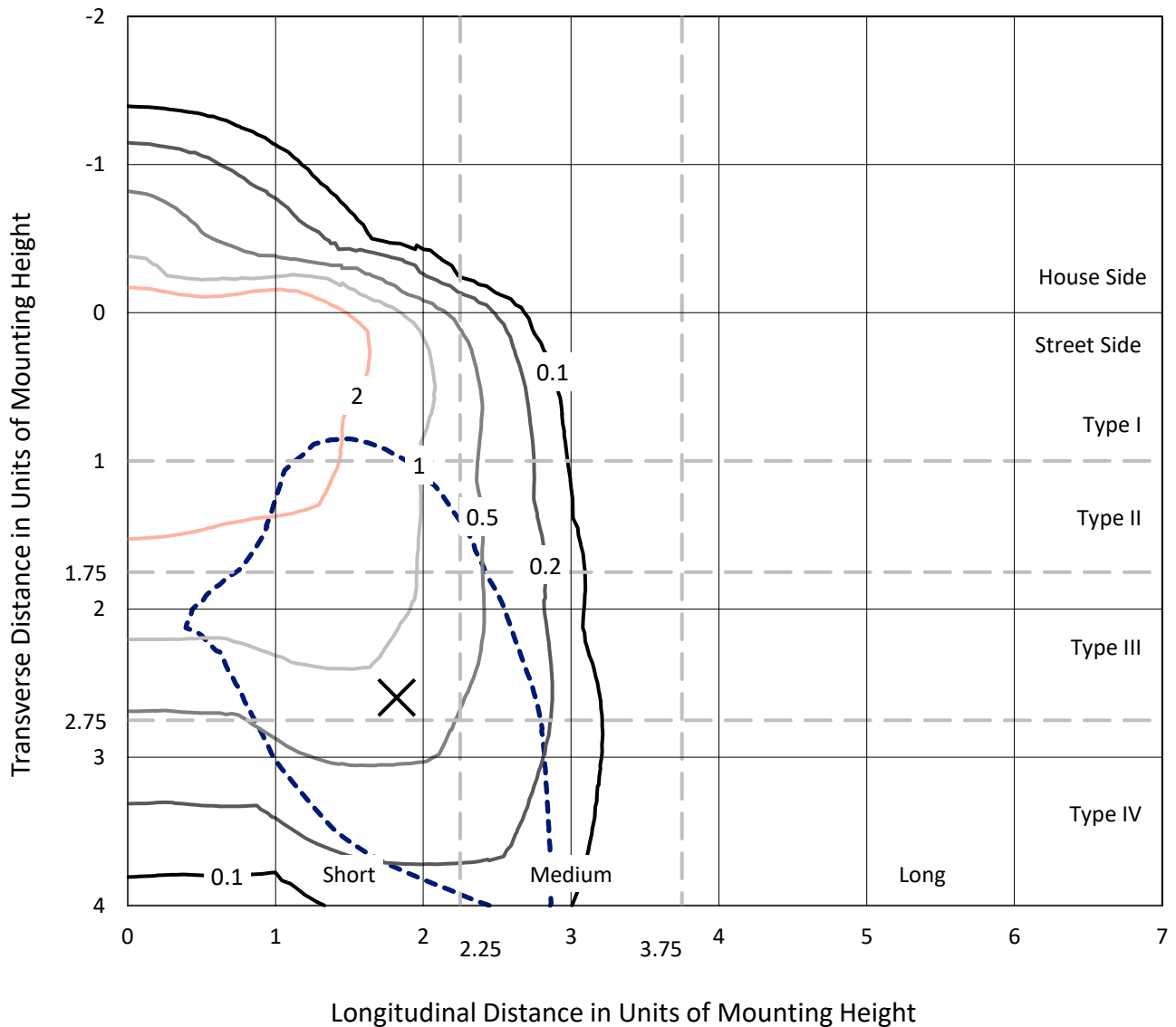
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

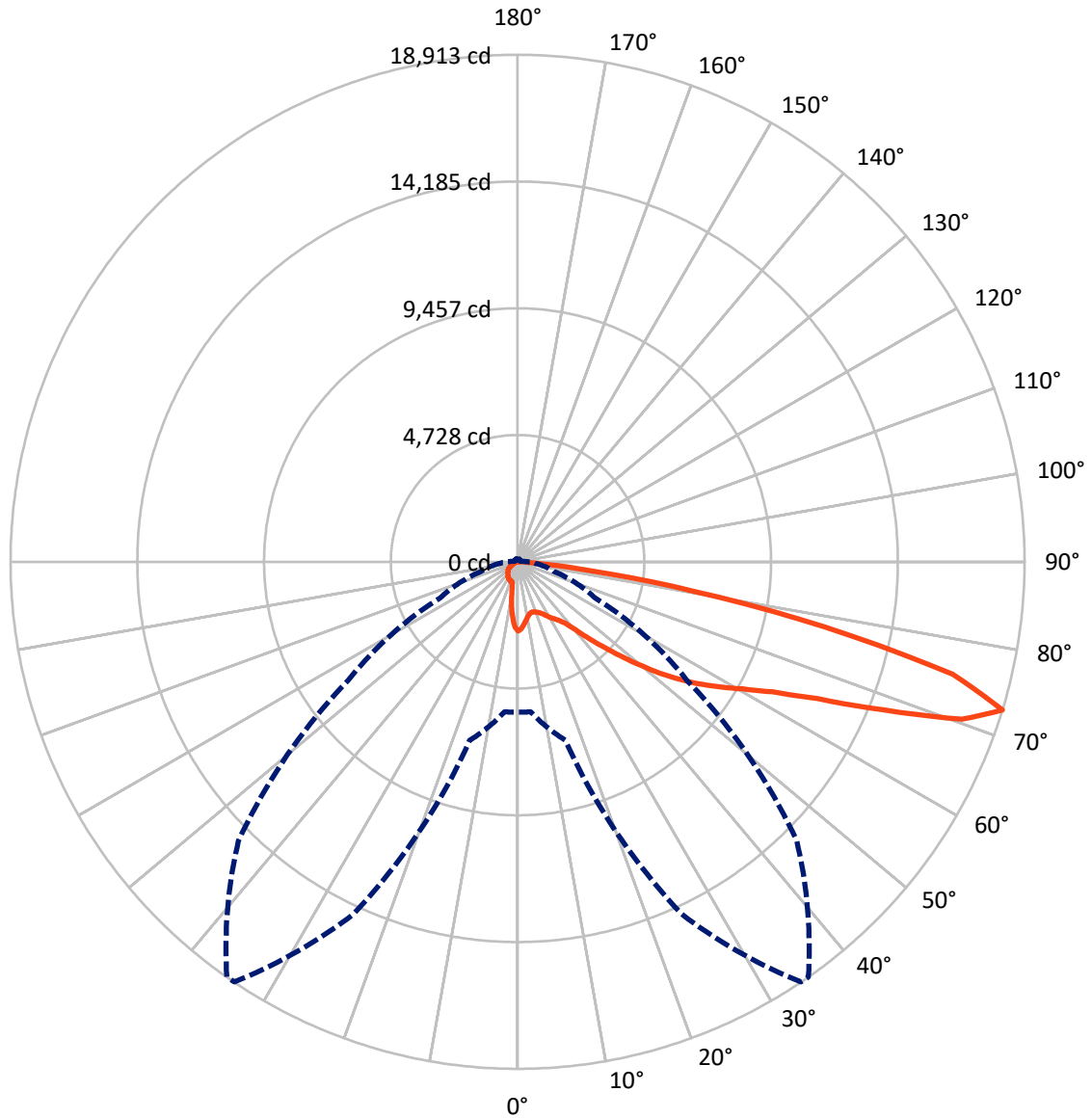
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2006.9 | 0.0 | 2006.9 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 15825.1 | 0.0 | 15825.1 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 17832.0 | 0.0 | 17832.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 212.4 | 1.2 |
| 10°-20° | 496.8 | 2.8 |
| 20°-30° | 807.1 | 4.5 |
| 30°-40° | 1346.6 | 7.6 |
| 40°-50° | 2547.8 | 14.3 |
| 50°-60° | 4048.4 | 22.7 |
| 60°-70° | 5008.2 | 28.1 |
| 70°-80° | 3113.1 | 17.5 |
| 80°-90° | 251.6 | 1.4 |
| 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° | 17832.0 | 100.0 |
| 0°-180° | 17832.0 | 100.0 |

Coefficient of Utilization

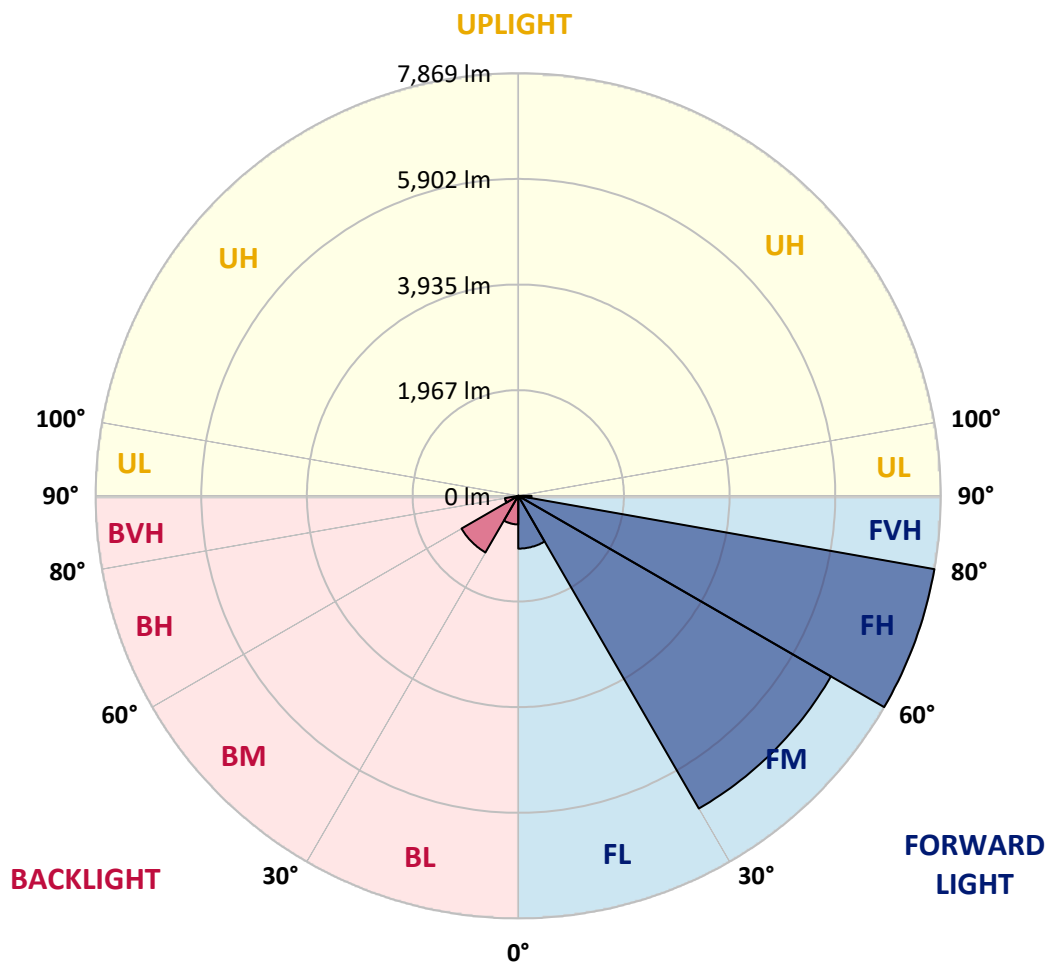


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 983.0 | 5.5 | | | |
| FM (30°-60°) | 6724.5 | 37.7 | | | |
| FH (60°-80°) | 7869.5 | 44.1 | | | G4/12000 |
| FVH (80°-90°) | 248.2 | 1.4 | | | G3/500 |
| BL (0°-30°) | 533.3 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 1218.4 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 251.8 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.4 | 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-G4
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 2584.5 | 2584.5 | 2584.5 | 2584.5 | 2584.5 | 2584.5 | 2584.5 | 2584.5 | 2584.5 | 2584.5 |
| 2.5° | 2469.5 | 2490.4 | 2494.3 | 2500.8 | 2500.8 | 2508.7 | 2521.7 | 2540.0 | 2570.1 | 2585.8 |
| 5° | 2276.1 | 2291.8 | 2311.4 | 2327.1 | 2357.1 | 2361.0 | 2412.0 | 2461.6 | 2530.9 | 2583.1 |
| 7.5° | 2081.4 | 2099.7 | 2125.8 | 2163.7 | 2202.9 | 2214.7 | 2291.8 | 2375.4 | 2485.2 | 2583.1 |
| 10° | 1944.2 | 1945.5 | 1969.0 | 2006.9 | 2069.7 | 2084.0 | 2178.1 | 2297.0 | 2434.2 | 2567.5 |
| 12.5° | 1867.1 | 1876.3 | 1886.7 | 1915.5 | 1975.6 | 1984.7 | 2085.3 | 2225.1 | 2383.2 | 2558.3 |
| 15° | 1867.1 | 1873.7 | 1880.2 | 1894.6 | 1942.9 | 1950.8 | 2039.6 | 2179.4 | 2357.1 | 2562.2 |
| 17.5° | 1886.7 | 1897.2 | 1892.0 | 1908.9 | 1959.9 | 1965.1 | 2043.5 | 2166.3 | 2355.8 | 2587.1 |
| 20° | 1933.8 | 1941.6 | 1931.2 | 1941.6 | 1992.6 | 2003.0 | 2084.0 | 2191.2 | 2378.0 | 2630.2 |
| 22.5° | 2008.2 | 2012.2 | 1987.3 | 1995.2 | 2047.4 | 2060.5 | 2154.6 | 2261.7 | 2431.6 | 2699.4 |
| 25° | 2102.3 | 2110.2 | 2072.3 | 2081.4 | 2131.1 | 2146.7 | 2255.2 | 2367.6 | 2516.5 | 2794.8 |
| 27.5° | 2210.8 | 2214.7 | 2182.0 | 2180.7 | 2244.7 | 2267.0 | 2376.7 | 2498.2 | 2630.2 | 2915.0 |
| 30° | 2334.9 | 2346.7 | 2315.3 | 2310.1 | 2391.1 | 2409.4 | 2517.8 | 2658.9 | 2797.4 | 3095.3 |
| 32.5° | 2432.9 | 2442.0 | 2423.7 | 2436.8 | 2519.1 | 2533.5 | 2689.0 | 2886.3 | 3060.1 | 3351.4 |
| 35° | 2574.0 | 2579.2 | 2537.4 | 2560.9 | 2655.0 | 2691.6 | 2922.9 | 3205.1 | 3390.6 | 3672.9 |
| 37.5° | 3084.9 | 3084.9 | 2907.2 | 2790.9 | 2881.1 | 2913.7 | 3243.0 | 3606.2 | 3798.3 | 4104.0 |
| 40° | 3791.8 | 3780.0 | 3520.0 | 3282.2 | 3270.4 | 3334.4 | 3699.0 | 4111.9 | 4324.8 | 4621.4 |
| 42.5° | 4545.7 | 4527.4 | 4173.3 | 3938.1 | 3898.9 | 3921.1 | 4225.5 | 4735.1 | 4952.0 | 5252.5 |
| 45° | 5214.6 | 5209.4 | 4885.4 | 4569.2 | 4498.6 | 4569.2 | 4882.8 | 5464.2 | 5619.7 | 5935.9 |
| 47.5° | 5775.2 | 5775.2 | 5538.7 | 5332.2 | 5295.6 | 5337.5 | 5772.6 | 6273.0 | 6258.6 | 6663.7 |
| 50° | 6420.6 | 6415.4 | 6190.7 | 6101.8 | 6139.7 | 6198.5 | 6796.9 | 7124.9 | 6919.8 | 7378.4 |
| 52.5° | 6872.7 | 6904.1 | 6827.0 | 6812.6 | 7006.0 | 7107.9 | 7837.0 | 7958.5 | 7511.6 | 8056.5 |
| 55° | 7230.7 | 7267.3 | 7356.2 | 7456.8 | 7829.1 | 7962.4 | 8844.4 | 8749.0 | 8006.8 | 8644.5 |
| 57.5° | 7737.7 | 7685.4 | 7822.6 | 8021.2 | 8623.6 | 8784.3 | 9820.4 | 9495.1 | 8405.4 | 9121.4 |
| 60° | 8353.1 | 8360.9 | 8384.5 | 8635.3 | 9416.7 | 9623.1 | 10782.1 | 10200.6 | 8661.5 | 9414.1 |
| 62.5° | 9092.6 | 9104.4 | 9152.7 | 9538.2 | 10481.5 | 10676.2 | 11806.4 | 10778.1 | 8779.0 | 9331.7 |
| 65° | 9041.7 | 9091.3 | 9630.9 | 10949.3 | 12100.4 | 12292.5 | 13002.0 | 11183.2 | 8601.3 | 8579.1 |
| 67.5° | 8236.8 | 8317.8 | 9220.7 | 12634.8 | 14541.2 | 14755.4 | 14447.1 | 11262.9 | 7834.4 | 6671.5 |
| 70° | 7181.1 | 7209.8 | 8295.6 | 14150.5 | 17367.3 | 17584.2 | 15740.6 | 10386.2 | 5945.0 | 3721.2 |
| 72.5° | 5607.9 | 5614.5 | 6888.4 | 14502.0 | 18901.3 | 18913.0 | 14725.4 | 7710.2 | 3197.3 | 1429.4 |
| 75° | 4006.0 | 3966.8 | 4613.6 | 11760.7 | 16629.1 | 16762.4 | 11039.5 | 3616.7 | 1221.7 | 675.5 |
| 77.5° | 2148.1 | 2191.2 | 2610.6 | 6974.6 | 11487.6 | 11715.0 | 6023.4 | 1042.7 | 621.9 | 459.9 |
| 80° | 663.8 | 700.3 | 1070.1 | 3193.3 | 6506.9 | 6644.1 | 2233.0 | 463.8 | 433.8 | 328.0 |
| 82.5° | 209.1 | 216.9 | 499.1 | 1341.9 | 2700.7 | 2763.5 | 646.8 | 262.6 | 296.6 | 216.9 |
| 85° | 60.1 | 61.4 | 222.1 | 500.4 | 667.7 | 680.7 | 181.6 | 101.9 | 169.9 | 134.6 |
| 87.5° | 6.5 | 20.9 | 83.6 | 83.6 | 58.8 | 57.5 | 19.6 | 22.2 | 48.3 | 17.0 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2584.5 | 0° | 2584.5 | 2584.5 | 2584.5 | 2584.5 | 2584.5 | 2584.5 | 2584.5 | 2584.5 | 2584.5 | 2584.5 |
| 2596.2 | 2.5° | 2589.7 | 2591.0 | 2574.0 | 2545.3 | 2513.9 | 2487.8 | 2455.1 | 2429.0 | 2410.7 | 2405.5 |
| 2619.7 | 5° | 2608.0 | 2598.8 | 2550.5 | 2462.9 | 2358.4 | 2268.3 | 2167.6 | 2087.9 | 2035.7 | 2013.5 |
| 2644.6 | 7.5° | 2635.4 | 2609.3 | 2503.4 | 2331.0 | 2131.1 | 1953.4 | 1773.1 | 1633.2 | 1544.4 | 1500.0 |
| 2668.1 | 10° | 2658.9 | 2606.7 | 2425.0 | 2140.2 | 1834.5 | 1565.3 | 1322.3 | 1153.7 | 1059.7 | 1015.2 |
| 2695.5 | 12.5° | 2681.1 | 2605.4 | 2323.1 | 1914.2 | 1500.0 | 1170.7 | 944.7 | 861.0 | 834.9 | 825.8 |
| 2739.9 | 15° | 2723.0 | 2609.3 | 2195.1 | 1655.5 | 1166.8 | 884.6 | 802.3 | 800.9 | 806.2 | 803.6 |
| 2807.9 | 17.5° | 2780.4 | 2613.2 | 2050.1 | 1381.1 | 900.2 | 780.0 | 776.1 | 787.9 | 795.7 | 791.8 |
| 2892.8 | 20° | 2854.9 | 2628.9 | 1895.9 | 1109.3 | 773.5 | 753.9 | 763.1 | 773.5 | 780.0 | 773.5 |
| 3006.5 | 22.5° | 2959.4 | 2656.3 | 1727.3 | 891.1 | 733.0 | 738.2 | 746.1 | 757.8 | 764.4 | 755.2 |
| 3151.5 | 25° | 3087.5 | 2699.4 | 1561.4 | 774.8 | 713.4 | 719.9 | 731.7 | 744.8 | 752.6 | 743.5 |
| 3334.4 | 27.5° | 3253.4 | 2768.7 | 1408.5 | 748.7 | 693.8 | 697.7 | 714.7 | 734.3 | 744.8 | 733.0 |
| 3594.5 | 30° | 3493.8 | 2882.4 | 1276.5 | 760.4 | 682.0 | 672.9 | 696.4 | 723.9 | 735.6 | 725.2 |
| 3948.5 | 32.5° | 3812.7 | 3043.1 | 1195.5 | 778.7 | 676.8 | 644.2 | 666.4 | 701.6 | 721.2 | 714.7 |
| 4411.1 | 35° | 4230.8 | 3287.4 | 1164.2 | 799.6 | 672.9 | 614.1 | 629.8 | 667.7 | 701.6 | 708.2 |
| 4993.8 | 37.5° | 4737.7 | 3627.1 | 1173.3 | 808.8 | 661.1 | 589.3 | 597.1 | 629.8 | 674.2 | 695.1 |
| 5649.7 | 40° | 5313.9 | 4023.0 | 1225.6 | 799.6 | 648.1 | 568.4 | 569.7 | 594.5 | 633.7 | 665.1 |
| 6355.3 | 42.5° | 5908.4 | 4485.6 | 1322.3 | 765.7 | 636.3 | 550.1 | 546.2 | 563.1 | 589.3 | 611.5 |
| 7059.6 | 45° | 6474.2 | 4961.2 | 1417.7 | 718.6 | 621.9 | 531.8 | 522.6 | 529.2 | 534.4 | 543.5 |
| 7745.5 | 47.5° | 6968.1 | 5295.6 | 1390.2 | 675.5 | 602.3 | 510.9 | 495.2 | 492.6 | 476.9 | 475.6 |
| 8358.3 | 50° | 7309.1 | 5368.8 | 1234.7 | 632.4 | 573.6 | 487.4 | 462.5 | 446.9 | 419.4 | 406.4 |
| 8816.9 | 52.5° | 7417.6 | 5080.1 | 1008.7 | 589.3 | 526.6 | 456.0 | 420.7 | 395.9 | 361.9 | 350.2 |
| 9080.9 | 55° | 7273.8 | 4514.3 | 806.2 | 537.0 | 461.2 | 414.2 | 375.0 | 342.3 | 314.9 | 300.5 |
| 9109.6 | 57.5° | 6922.4 | 3794.4 | 637.6 | 475.6 | 392.0 | 367.2 | 328.0 | 295.3 | 271.8 | 257.4 |
| 8790.8 | 60° | 6339.6 | 3013.0 | 504.3 | 402.4 | 334.5 | 316.2 | 275.7 | 254.8 | 233.9 | 216.9 |
| 7967.6 | 62.5° | 5455.1 | 2150.7 | 395.9 | 318.8 | 279.6 | 258.7 | 235.2 | 219.5 | 194.7 | 171.2 |
| 6487.3 | 65° | 4256.9 | 1315.7 | 305.7 | 233.9 | 224.7 | 214.3 | 199.9 | 185.5 | 155.5 | 132.0 |
| 4232.1 | 67.5° | 2685.1 | 623.2 | 218.2 | 176.4 | 177.7 | 172.5 | 165.9 | 154.2 | 132.0 | 111.1 |
| 1895.9 | 70° | 1182.5 | 301.8 | 143.7 | 134.6 | 132.0 | 132.0 | 137.2 | 133.3 | 112.4 | 92.8 |
| 658.5 | 72.5° | 402.4 | 162.0 | 107.1 | 101.9 | 95.4 | 94.1 | 115.0 | 111.1 | 90.2 | 71.9 |
| 328.0 | 75° | 210.4 | 108.4 | 78.4 | 73.2 | 57.5 | 69.2 | 91.5 | 86.2 | 64.0 | 47.0 |
| 216.9 | 77.5° | 137.2 | 77.1 | 53.6 | 47.0 | 32.7 | 45.7 | 67.9 | 60.1 | 37.9 | 23.5 |
| 142.4 | 80° | 86.2 | 51.0 | 31.4 | 22.2 | 15.7 | 24.8 | 36.6 | 26.1 | 14.4 | 5.2 |
| 83.6 | 82.5° | 45.7 | 26.1 | 11.8 | 7.8 | 6.5 | 7.8 | 9.1 | 6.5 | 2.6 | 0.0 |
| 43.1 | 85° | 18.3 | 9.1 | 3.9 | 2.6 | 1.3 | 0.0 | 2.6 | 1.3 | 0.0 | 0.0 |
| 7.8 | 87.5° | 6.5 | 1.3 | 0.0 | 0.0 | 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 |

(END O

| 180° |
|--------|
| 2584.5 |
| 2414.6 |
| 2021.3 |
| 1506.5 |
| 1016.5 |
| 823.2 |
| 802.3 |
| 790.5 |
| 772.2 |
| 753.9 |
| 742.1 |
| 733.0 |
| 723.9 |
| 714.7 |
| 708.2 |
| 700.3 |
| 675.5 |
| 620.6 |
| 548.8 |
| 474.3 |
| 407.7 |
| 348.9 |
| 300.5 |
| 254.8 |
| 213.0 |
| 167.2 |
| 128.0 |
| 108.4 |
| 88.8 |
| 67.9 |
| 43.1 |
| 20.9 |
| 3.9 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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