

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: P941426

Luminaire Tested: **GLAN-SB4D-950-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4D-950-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22251 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

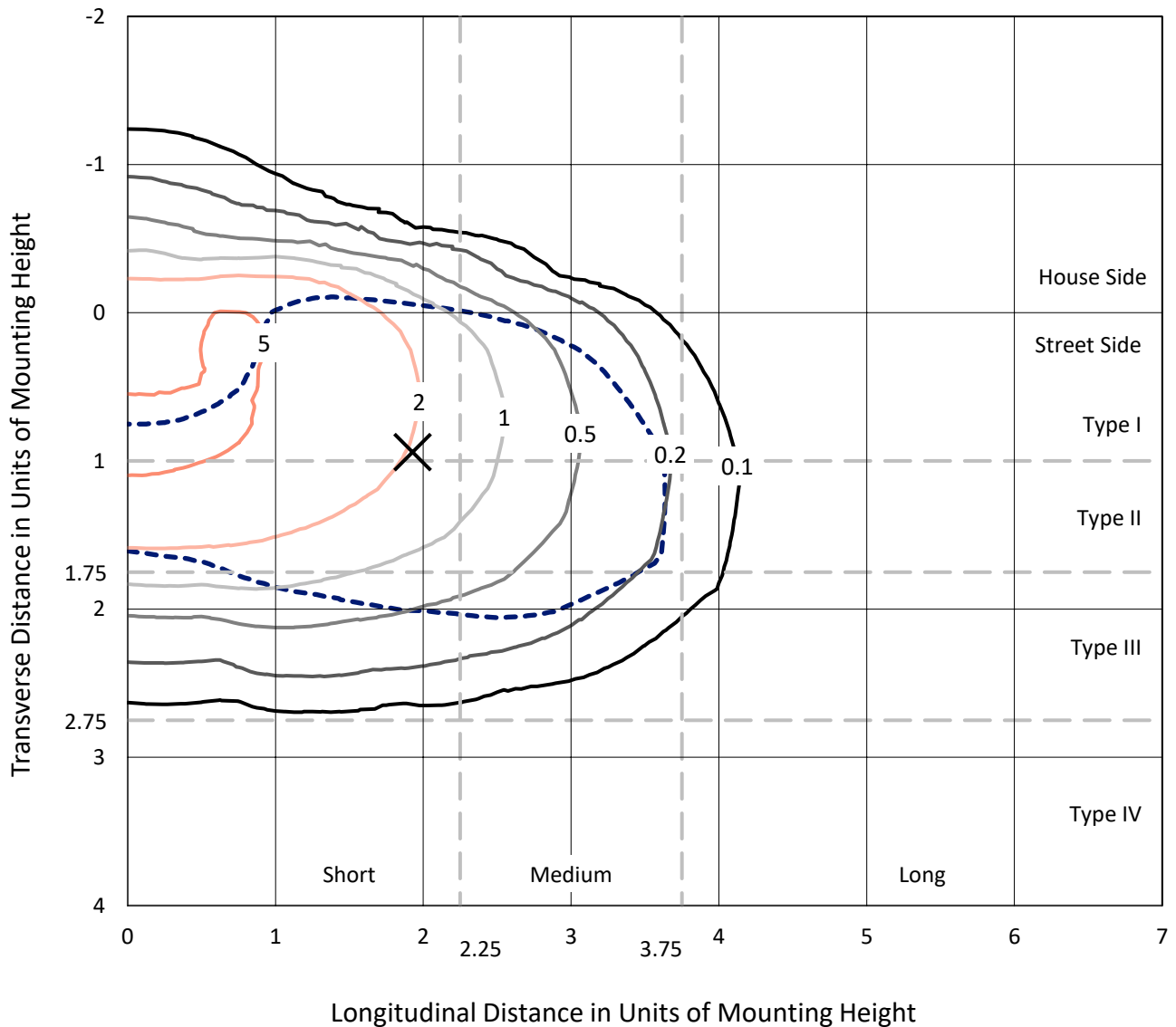
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

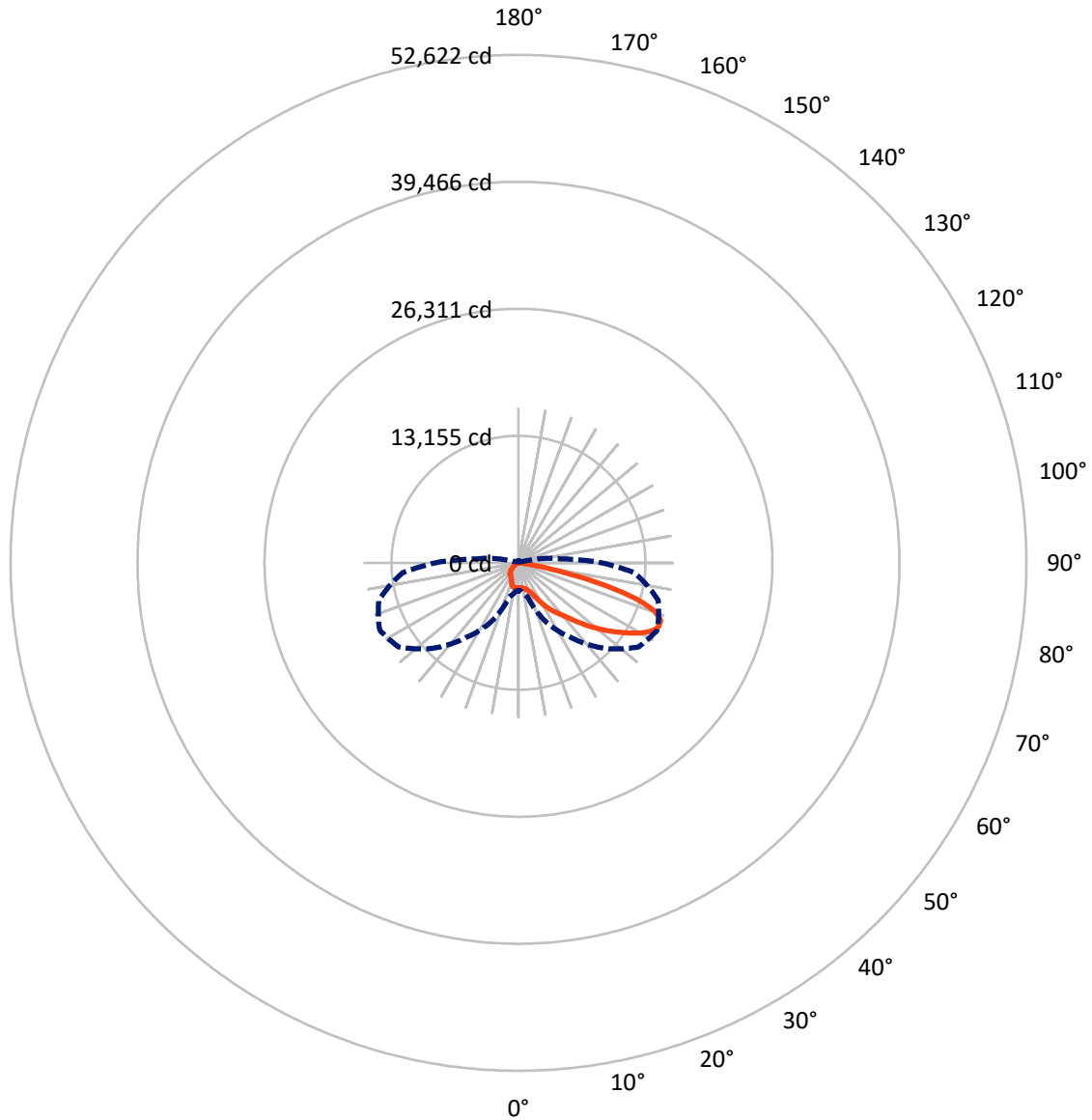
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2975.6 | 0.0 | 2975.6 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 19275.4 | 0.0 | 19275.4 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 22251.0 | 0.0 | 22251.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 238.8 | 1.1 |
| 10°-20° | 647.6 | 2.9 |
| 20°-30° | 1227.2 | 5.5 |
| 30°-40° | 2483.2 | 11.2 |
| 40°-50° | 4230.2 | 19.0 |
| 50°-60° | 5752.7 | 25.9 |
| 60°-70° | 5402.1 | 24.3 |
| 70°-80° | 2164.3 | 9.7 |
| 80°-90° | 104.9 | 0.5 |
| 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° | 22251.0 | 100.0 |
| 0°-180° | 22251.0 | 100.0 |

Coefficient of Utilization



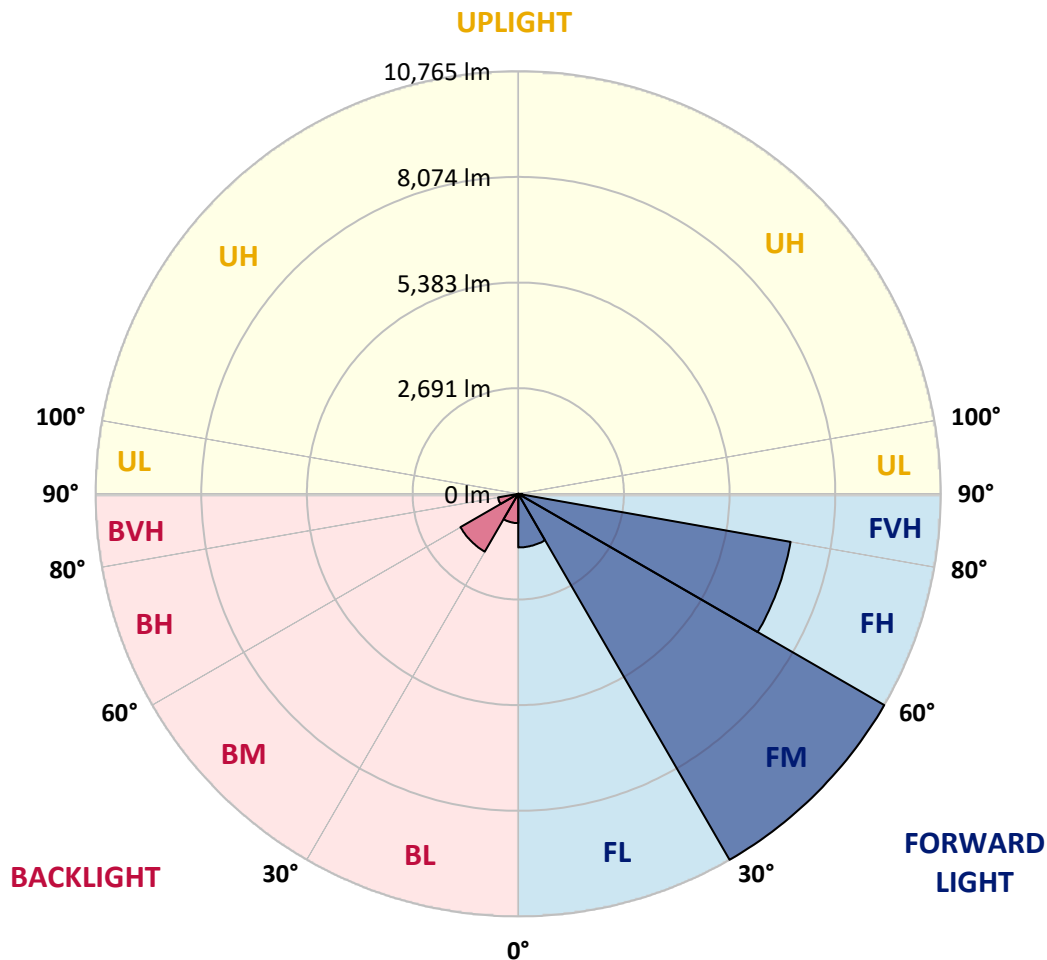
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1366.5 | 6.1 | | | |
| FM (30°-60°) | 10765.0 | 48.4 | | | |
| FH (60°-80°) | 7044.2 | 31.7 | | | G3/7500 |
| FVH (80°-90°) | 99.7 | 0.4 | | | G1/100 |
| BL (0°-30°) | 747.1 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 1701.2 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 522.3 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 5.1 | 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° | 64° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2588.0 | 2588.0 | 2588.0 | 2588.0 | 2588.0 | 2588.0 | 2588.0 | 2588.0 | 2588.0 | 2588.0 |
| 2.5° | 2579.1 | 2597.0 | 2592.5 | 2588.0 | 2586.5 | 2589.5 | 2591.0 | 2589.5 | 2589.5 | 2589.5 |
| 5° | 2529.8 | 2544.8 | 2544.8 | 2555.2 | 2570.1 | 2588.0 | 2601.4 | 2604.4 | 2607.4 | 2611.9 |
| 7.5° | 2435.9 | 2447.8 | 2456.8 | 2491.1 | 2528.4 | 2576.1 | 2616.4 | 2637.2 | 2640.2 | 2656.6 |
| 10° | 2371.7 | 2386.6 | 2401.6 | 2437.4 | 2491.1 | 2562.7 | 2631.3 | 2682.0 | 2689.5 | 2728.2 |
| 12.5° | 2368.7 | 2383.7 | 2403.1 | 2441.8 | 2504.5 | 2580.6 | 2664.1 | 2737.2 | 2750.6 | 2807.3 |
| 15° | 2400.1 | 2418.0 | 2435.9 | 2483.6 | 2550.7 | 2643.2 | 2732.7 | 2823.7 | 2837.1 | 2917.7 |
| 17.5° | 2464.2 | 2488.1 | 2501.5 | 2549.2 | 2620.8 | 2723.8 | 2841.6 | 2946.0 | 2958.0 | 3051.9 |
| 20° | 2591.0 | 2619.3 | 2623.8 | 2662.6 | 2732.7 | 2843.1 | 2983.3 | 3113.1 | 3128.0 | 3235.4 |
| 22.5° | 2853.5 | 2893.8 | 2858.0 | 2877.4 | 2940.1 | 3050.4 | 3202.6 | 3366.7 | 3387.5 | 3509.9 |
| 25° | 3316.0 | 3372.6 | 3280.2 | 3247.3 | 3274.2 | 3389.0 | 3580.0 | 3787.3 | 3811.2 | 3909.6 |
| 27.5° | 4224.4 | 4151.3 | 4011.1 | 3873.8 | 3793.3 | 3858.9 | 4073.7 | 4330.3 | 4360.1 | 4455.6 |
| 30° | 5222.3 | 5158.1 | 4968.7 | 4664.4 | 4473.5 | 4463.0 | 4661.4 | 4947.8 | 4982.1 | 5073.1 |
| 32.5° | 6221.7 | 6160.5 | 5954.7 | 5580.3 | 5249.1 | 5085.1 | 5222.3 | 5540.0 | 5557.9 | 5616.1 |
| 35° | 7204.7 | 7142.0 | 6936.2 | 6552.8 | 6145.6 | 5772.7 | 5745.9 | 6103.9 | 6109.8 | 6171.0 |
| 37.5° | 8193.7 | 8141.5 | 7922.2 | 7546.3 | 7145.0 | 6630.4 | 6381.3 | 6637.9 | 6645.3 | 6705.0 |
| 40° | 8899.2 | 8921.6 | 8770.9 | 8480.1 | 8135.5 | 7573.1 | 7094.3 | 7206.2 | 7161.4 | 7261.4 |
| 42.5° | 9504.8 | 9549.6 | 9418.3 | 9272.1 | 9072.2 | 8577.0 | 7977.4 | 7958.0 | 7886.4 | 7940.1 |
| 45° | 10028.4 | 10065.7 | 9947.9 | 9913.5 | 9909.1 | 9561.5 | 8942.5 | 8826.1 | 8726.2 | 8715.7 |
| 47.5° | 10220.8 | 10292.4 | 10343.1 | 10458.0 | 10681.7 | 10535.6 | 9940.4 | 9759.9 | 9648.0 | 9566.0 |
| 50° | 10293.9 | 10370.0 | 10543.0 | 10877.2 | 11406.7 | 11469.3 | 10933.8 | 10731.0 | 10593.7 | 10444.6 |
| 52.5° | 10195.5 | 10331.2 | 10563.9 | 11126.3 | 11894.5 | 12218.2 | 11887.0 | 11709.5 | 11552.9 | 11309.7 |
| 55° | 9615.2 | 9751.0 | 10226.8 | 11123.3 | 12137.6 | 12743.2 | 12788.0 | 12708.9 | 12532.9 | 12149.5 |
| 57.5° | 8392.1 | 8593.4 | 9346.7 | 10744.4 | 12133.1 | 13195.2 | 13671.0 | 13727.7 | 13530.8 | 12981.9 |
| 60° | 6697.5 | 6970.5 | 7889.4 | 9904.6 | 11758.7 | 13439.8 | 14445.2 | 14728.6 | 14519.8 | 13802.3 |
| 62.5° | 4673.4 | 4989.6 | 5859.2 | 8589.0 | 10902.5 | 13263.8 | 15010.5 | 15534.1 | 15376.0 | 14536.2 |
| 65° | 2850.6 | 2952.0 | 3653.1 | 6758.7 | 9446.7 | 12526.9 | 15185.1 | 15969.7 | 15917.5 | 14985.2 |
| 67.5° | 1898.9 | 1983.9 | 2185.3 | 4634.6 | 7333.0 | 11054.7 | 14767.4 | 15893.6 | 15908.5 | 14912.1 |
| 70° | 1144.1 | 1217.2 | 1348.5 | 2695.4 | 4752.4 | 8750.1 | 13474.1 | 14924.0 | 15010.5 | 13935.0 |
| 72.5° | 471.4 | 520.6 | 639.9 | 1221.7 | 2461.2 | 5553.4 | 10729.5 | 12813.3 | 13014.7 | 11717.0 |
| 75° | 267.0 | 292.4 | 375.9 | 613.1 | 1068.0 | 2588.0 | 6499.1 | 9096.1 | 9393.0 | 8075.8 |
| 77.5° | 177.5 | 189.4 | 243.1 | 396.8 | 601.1 | 883.1 | 2777.5 | 4739.0 | 5305.8 | 4410.8 |
| 80° | 119.3 | 129.8 | 167.1 | 265.5 | 390.8 | 378.9 | 884.6 | 1755.7 | 2159.9 | 1515.5 |
| 82.5° | 80.5 | 82.0 | 119.3 | 174.5 | 247.6 | 183.5 | 261.0 | 545.9 | 686.2 | 438.5 |
| 85° | 46.2 | 44.7 | 88.0 | 101.4 | 110.4 | 76.1 | 79.1 | 164.1 | 214.8 | 185.0 |
| 87.5° | 6.0 | 8.9 | 34.3 | 26.8 | 14.9 | 16.4 | 16.4 | 28.3 | 41.8 | 44.7 |
| 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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 CATALOG NUMBER: GLAN-SB4D-950-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2588.0 | 0° | 2588.0 | 2588.0 | 2588.0 | 2588.0 | 2588.0 | 2588.0 | 2588.0 | 2588.0 | 2588.0 | 2588.0 |
| 2591.0 | 2.5° | 2591.0 | 2589.5 | 2585.0 | 2580.6 | 2570.1 | 2564.2 | 2567.1 | 2564.2 | 2562.7 | 2564.2 |
| 2610.4 | 5° | 2610.4 | 2605.9 | 2594.0 | 2579.1 | 2558.2 | 2532.8 | 2516.4 | 2492.6 | 2470.2 | 2456.8 |
| 2662.6 | 7.5° | 2662.6 | 2658.1 | 2641.7 | 2600.0 | 2532.8 | 2426.9 | 2330.0 | 2244.9 | 2180.8 | 2143.5 |
| 2746.1 | 10° | 2746.1 | 2738.7 | 2713.3 | 2620.8 | 2444.8 | 2213.6 | 2021.2 | 1861.6 | 1757.2 | 1707.9 |
| 2844.6 | 12.5° | 2844.6 | 2835.6 | 2790.9 | 2601.4 | 2277.8 | 1916.8 | 1651.3 | 1473.8 | 1376.8 | 1333.5 |
| 2958.0 | 15° | 2960.9 | 2949.0 | 2861.0 | 2509.0 | 2034.6 | 1588.6 | 1345.5 | 1212.7 | 1150.1 | 1111.3 |
| 3102.6 | 17.5° | 3105.6 | 3084.7 | 2913.2 | 2370.2 | 1770.6 | 1338.0 | 1157.5 | 1057.6 | 1002.4 | 965.1 |
| 3292.1 | 20° | 3293.6 | 3259.3 | 2955.0 | 2204.7 | 1527.5 | 1179.9 | 1030.7 | 947.2 | 905.4 | 872.6 |
| 3560.6 | 22.5° | 3556.1 | 3506.9 | 3005.7 | 2025.7 | 1355.9 | 1071.0 | 936.8 | 875.6 | 841.3 | 804.0 |
| 3935.0 | 25° | 3881.3 | 3823.1 | 3068.3 | 1860.1 | 1238.1 | 977.0 | 868.1 | 817.4 | 777.2 | 733.9 |
| 4425.7 | 27.5° | 4336.2 | 4231.8 | 3142.9 | 1724.4 | 1136.6 | 896.5 | 805.5 | 748.8 | 702.6 | 666.8 |
| 4982.1 | 30° | 4843.4 | 4671.9 | 3208.6 | 1642.3 | 1044.2 | 821.9 | 723.5 | 666.8 | 623.5 | 598.2 |
| 5481.8 | 32.5° | 5323.7 | 5091.0 | 3251.8 | 1606.5 | 960.6 | 736.9 | 634.0 | 572.8 | 540.0 | 532.5 |
| 5971.1 | 35° | 5777.2 | 5469.9 | 3247.3 | 1572.2 | 886.0 | 651.9 | 545.9 | 483.3 | 457.9 | 462.4 |
| 6497.7 | 37.5° | 6299.3 | 5874.1 | 3216.0 | 1518.5 | 824.9 | 574.3 | 469.9 | 414.7 | 392.3 | 393.8 |
| 7137.6 | 40° | 6906.4 | 6341.0 | 3196.6 | 1417.1 | 757.8 | 502.7 | 407.2 | 362.5 | 346.1 | 340.1 |
| 7811.8 | 42.5° | 7553.7 | 6793.0 | 3199.6 | 1302.2 | 674.2 | 438.5 | 364.0 | 326.7 | 311.8 | 307.3 |
| 8562.1 | 45° | 8204.1 | 7224.1 | 3204.1 | 1182.9 | 586.2 | 389.3 | 332.6 | 301.3 | 292.4 | 286.4 |
| 9322.8 | 47.5° | 8815.7 | 7591.0 | 3120.5 | 1054.6 | 499.7 | 352.0 | 307.3 | 286.4 | 278.9 | 271.5 |
| 10086.6 | 50° | 9385.5 | 7835.7 | 2919.2 | 905.4 | 431.1 | 322.2 | 287.9 | 273.0 | 265.5 | 258.1 |
| 10778.7 | 52.5° | 9828.5 | 7874.4 | 2586.5 | 751.8 | 383.4 | 299.8 | 276.0 | 262.5 | 253.6 | 246.1 |
| 11338.1 | 55° | 10025.4 | 7631.3 | 2113.7 | 608.6 | 346.1 | 280.4 | 264.0 | 250.6 | 240.2 | 232.7 |
| 11778.1 | 57.5° | 9974.7 | 7119.7 | 1648.3 | 489.3 | 310.3 | 261.0 | 249.1 | 240.2 | 228.2 | 216.3 |
| 12134.6 | 60° | 9725.6 | 6435.0 | 1242.5 | 407.2 | 277.4 | 240.2 | 232.7 | 225.2 | 208.8 | 190.9 |
| 12271.9 | 62.5° | 9294.5 | 5574.3 | 886.0 | 337.1 | 241.6 | 216.3 | 213.3 | 207.3 | 183.5 | 150.7 |
| 12069.0 | 65° | 8635.2 | 4528.7 | 596.7 | 280.4 | 207.3 | 189.4 | 190.9 | 180.5 | 149.2 | 111.9 |
| 11326.1 | 67.5° | 7671.6 | 3311.5 | 381.9 | 229.7 | 173.0 | 158.1 | 159.6 | 153.6 | 126.8 | 95.5 |
| 9918.0 | 70° | 6444.0 | 2192.7 | 249.1 | 174.5 | 138.7 | 122.3 | 131.3 | 132.8 | 107.4 | 77.6 |
| 7611.9 | 72.5° | 4724.1 | 1294.8 | 174.5 | 129.8 | 101.4 | 85.0 | 107.4 | 110.4 | 86.5 | 58.2 |
| 4579.4 | 75° | 2692.4 | 614.6 | 131.3 | 94.0 | 62.6 | 59.7 | 83.5 | 83.5 | 59.7 | 38.8 |
| 1982.4 | 77.5° | 1130.7 | 256.6 | 92.5 | 61.2 | 35.8 | 34.3 | 56.7 | 52.2 | 29.8 | 17.9 |
| 483.3 | 80° | 326.7 | 114.9 | 49.2 | 29.8 | 14.9 | 13.4 | 22.4 | 16.4 | 7.5 | 3.0 |
| 183.5 | 82.5° | 128.3 | 50.7 | 19.4 | 11.9 | 6.0 | 6.0 | 3.0 | 0.0 | 0.0 | 0.0 |
| 104.4 | 85° | 76.1 | 20.9 | 8.9 | 4.5 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22.4 | 87.5° | 19.4 | 4.5 | 3.0 | 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 |

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|--------|
| 180° |
| <hr/> |
| 2588.0 |
| 2570.1 |
| 2459.7 |
| 2145.0 |
| 1703.5 |
| 1329.1 |
| 1112.8 |
| 962.1 |
| 866.7 |
| 798.0 |
| 729.4 |
| 659.3 |
| 593.7 |
| 537.0 |
| 462.4 |
| 399.8 |
| 338.6 |
| 305.8 |
| 286.4 |
| 271.5 |
| 258.1 |
| 244.6 |
| 231.2 |
| 214.8 |
| 187.9 |
| 147.7 |
| 108.9 |
| 91.0 |
| 74.6 |
| 55.2 |
| 35.8 |
| 17.9 |
| 3.0 |
| 0.0 |
| 0.0 |
| 0.0 |
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