

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: P947515

Luminaire Tested: **GLAN-SB2D-830-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB2D-830-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18772 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

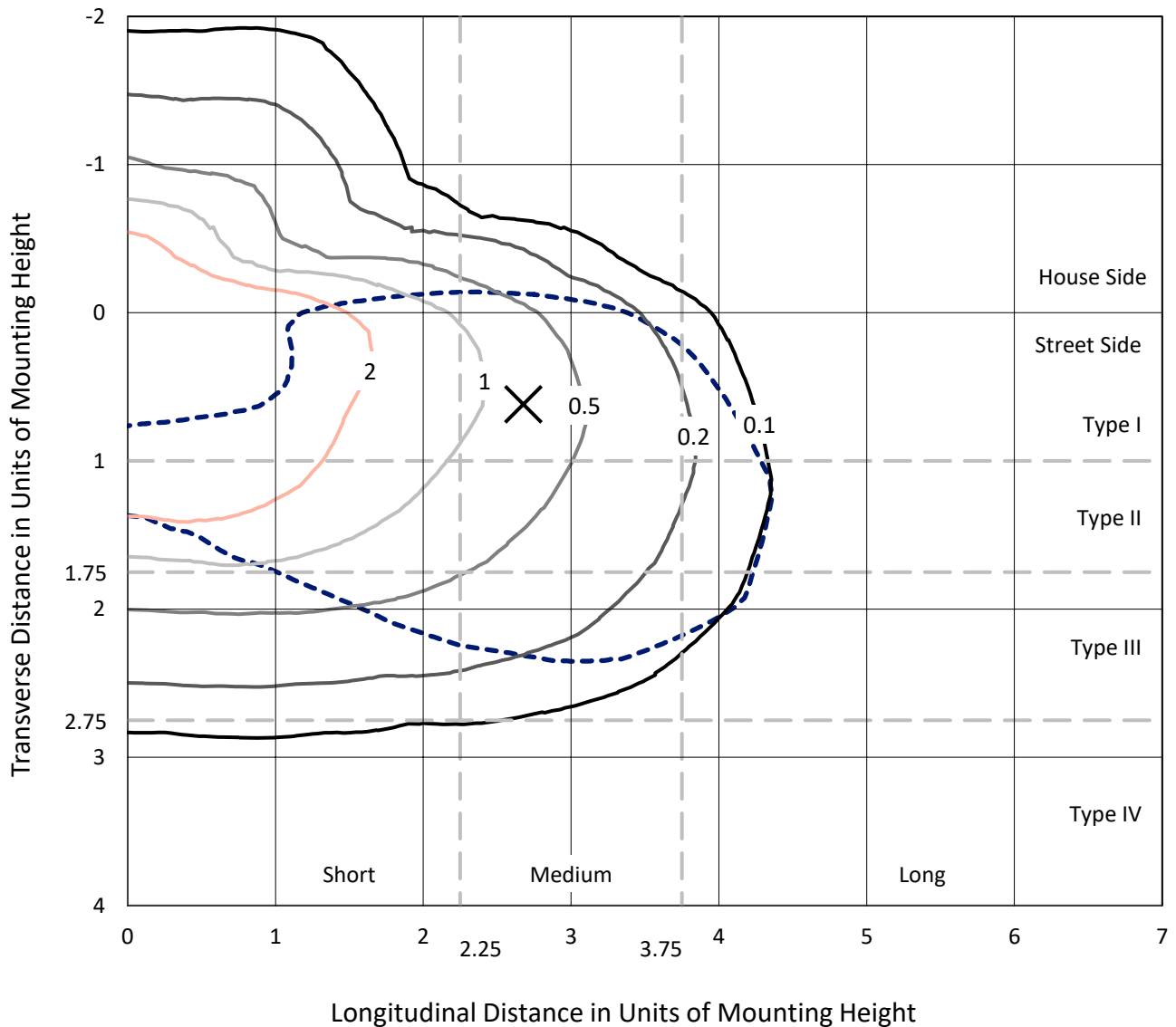
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

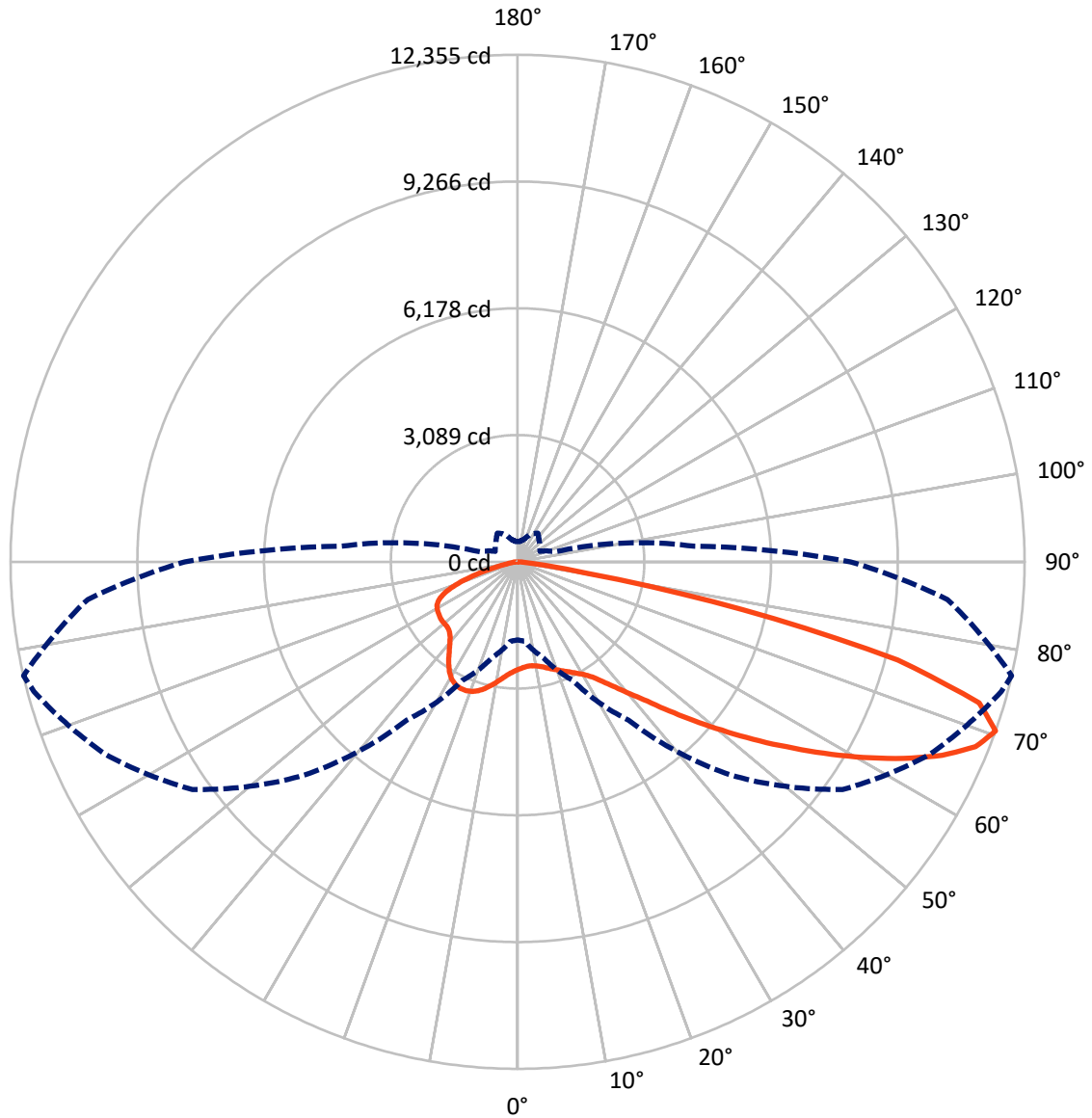
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4110.8 | 0.0 | 4110.8 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 14661.2 | 0.0 | 14661.2 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 18772.0 | 0.0 | 18772.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 249.8 | 1.3 |
| 10°-20° | 720.9 | 3.8 |
| 20°-30° | 1232.8 | 6.6 |
| 30°-40° | 1982.4 | 10.6 |
| 40°-50° | 3095.1 | 16.5 |
| 50°-60° | 4134.3 | 22.0 |
| 60°-70° | 4406.5 | 23.5 |
| 70°-80° | 2712.6 | 14.5 |
| 80°-90° | 237.7 | 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° | 18772.0 | 100.0 |
| 0°-180° | 18772.0 | 100.0 |

Coefficient of Utilization



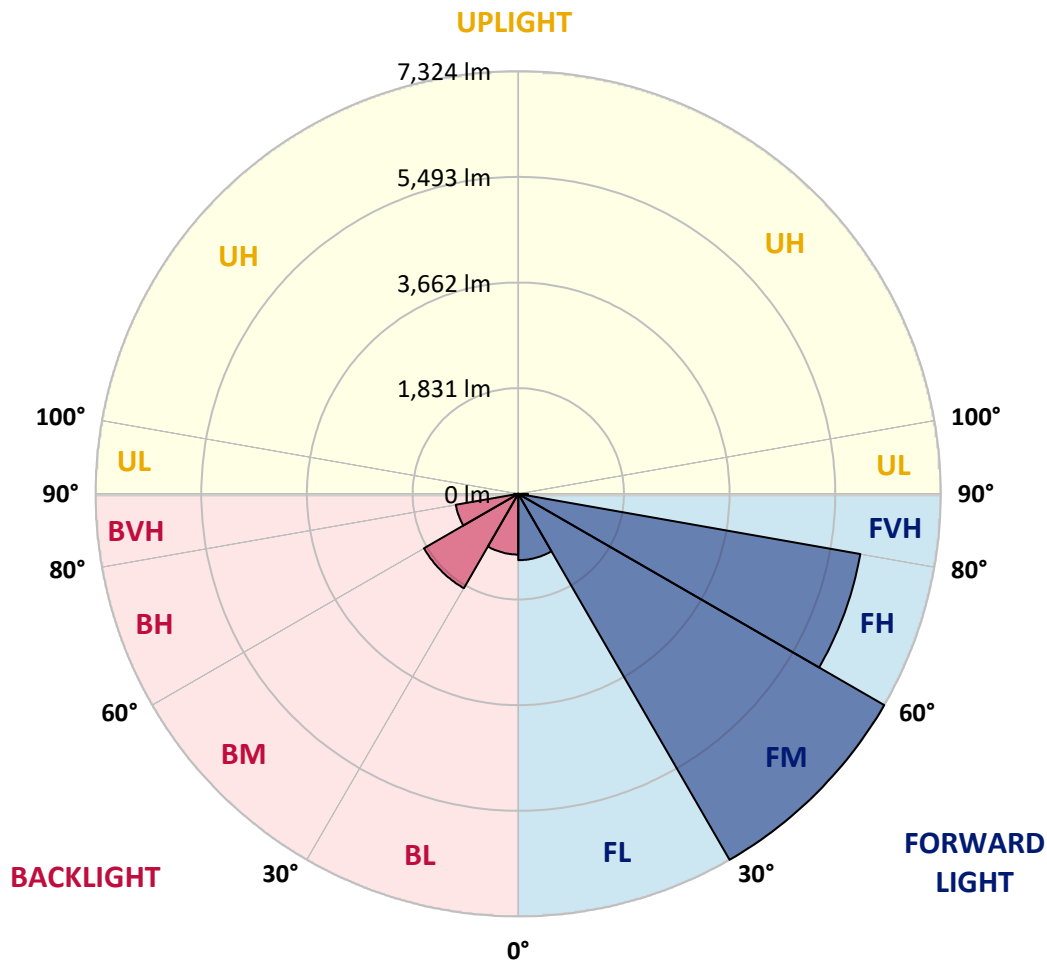
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1150.1 | 6.1 | | | |
| FM (30°-60°) | 7324.4 | 39.0 | | | |
| FH (60°-80°) | 6020.5 | 32.1 | | | G3/7500 |
| FVH (80°-90°) | 166.2 | 0.9 | | | G2/225 |
| BL (0°-30°) | 1053.3 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 1887.3 | 10.1 | B2/2500 | | |
| BH (60°-80°) | 1098.6 | 5.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 71.5 | 0.4 | | | 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 Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 2618.9 | 2618.9 | 2618.9 | 2618.9 | 2618.9 | 2618.9 | 2618.9 | 2618.9 | 2618.9 | 2618.9 |
| 2.5° | 2414.1 | 2413.1 | 2425.6 | 2429.5 | 2452.5 | 2468.9 | 2499.7 | 2532.3 | 2574.6 | 2579.4 |
| 5° | 2274.7 | 2274.7 | 2289.1 | 2304.5 | 2334.3 | 2367.0 | 2414.1 | 2470.8 | 2543.9 | 2555.4 |
| 7.5° | 2156.4 | 2164.1 | 2176.6 | 2206.4 | 2241.0 | 2288.1 | 2360.2 | 2441.0 | 2537.1 | 2555.4 |
| 10° | 2061.3 | 2069.9 | 2085.3 | 2109.3 | 2161.2 | 2226.6 | 2320.8 | 2424.7 | 2553.5 | 2582.3 |
| 12.5° | 2031.4 | 2040.1 | 2048.8 | 2067.0 | 2115.1 | 2192.0 | 2304.5 | 2432.4 | 2592.9 | 2621.7 |
| 15° | 2100.7 | 2111.2 | 2104.5 | 2099.7 | 2124.7 | 2194.9 | 2312.2 | 2460.2 | 2641.9 | 2683.3 |
| 17.5° | 2260.3 | 2264.1 | 2248.7 | 2203.5 | 2199.7 | 2237.2 | 2348.7 | 2498.7 | 2703.5 | 2748.7 |
| 20° | 2517.9 | 2511.2 | 2479.5 | 2390.1 | 2339.1 | 2331.4 | 2411.2 | 2556.4 | 2766.9 | 2815.0 |
| 22.5° | 2867.9 | 2860.2 | 2796.7 | 2655.4 | 2542.0 | 2467.0 | 2501.6 | 2631.4 | 2838.1 | 2891.9 |
| 25° | 3304.3 | 3293.8 | 3200.5 | 3008.2 | 2832.3 | 2646.7 | 2624.6 | 2730.4 | 2925.6 | 2975.5 |
| 27.5° | 3813.9 | 3805.2 | 3704.3 | 3450.5 | 3196.7 | 2892.9 | 2777.5 | 2846.7 | 3016.9 | 3073.6 |
| 30° | 4361.9 | 4386.9 | 4208.1 | 3935.0 | 3613.9 | 3214.0 | 2983.2 | 2990.0 | 3135.1 | 3186.1 |
| 32.5° | 5006.0 | 5049.3 | 4833.9 | 4487.8 | 4049.4 | 3563.0 | 3242.8 | 3189.9 | 3307.2 | 3349.5 |
| 35° | 5644.4 | 5693.4 | 5514.6 | 5132.0 | 4627.2 | 3974.4 | 3513.9 | 3419.7 | 3536.0 | 3582.2 |
| 37.5° | 6196.3 | 6261.6 | 6169.3 | 5836.7 | 5245.4 | 4470.5 | 3867.7 | 3689.9 | 3817.7 | 3875.4 |
| 40° | 6631.8 | 6731.8 | 6725.0 | 6517.4 | 5974.2 | 5072.4 | 4316.7 | 4023.5 | 4167.7 | 4230.2 |
| 42.5° | 6985.6 | 7072.1 | 7147.1 | 7136.5 | 6734.6 | 5755.9 | 4844.5 | 4457.1 | 4566.7 | 4638.8 |
| 45° | 7229.8 | 7322.1 | 7483.6 | 7657.6 | 7466.3 | 6487.6 | 5449.2 | 4971.4 | 5071.4 | 5180.0 |
| 47.5° | 7448.0 | 7552.8 | 7762.4 | 8038.3 | 8087.3 | 7222.1 | 6111.6 | 5570.4 | 5661.7 | 5774.2 |
| 50° | 7467.2 | 7557.6 | 7882.6 | 8273.8 | 8528.6 | 7927.7 | 6823.1 | 6242.4 | 6328.0 | 6448.1 |
| 52.5° | 7002.9 | 7145.2 | 7712.4 | 8267.1 | 8731.5 | 8518.0 | 7529.7 | 6941.3 | 7037.5 | 7181.7 |
| 55° | 5435.8 | 5644.4 | 7213.4 | 8009.5 | 8659.4 | 8899.7 | 8201.7 | 7684.5 | 7807.6 | 7958.5 |
| 57.5° | 4682.0 | 4773.4 | 5726.1 | 7540.3 | 8330.6 | 8998.7 | 8769.0 | 8435.4 | 8633.4 | 8798.8 |
| 60° | 4208.1 | 4284.0 | 4847.4 | 6810.6 | 7897.9 | 8842.0 | 9207.4 | 9135.3 | 9477.5 | 9674.6 |
| 62.5° | 3700.4 | 3772.6 | 4285.0 | 5686.7 | 7344.2 | 8581.5 | 9484.3 | 9781.3 | 10342.8 | 10558.1 |
| 65° | 3196.7 | 3258.2 | 3749.5 | 4778.2 | 6640.4 | 8321.0 | 9627.5 | 10339.9 | 11143.6 | 11366.7 |
| 67.5° | 2635.2 | 2686.2 | 3150.5 | 4031.2 | 5784.8 | 7964.3 | 9698.6 | 10779.3 | 11840.7 | 12032.0 |
| 70° | 1901.7 | 1941.1 | 2420.8 | 3188.0 | 4710.9 | 7350.9 | 9669.8 | 11090.8 | 12202.1 | 12355.0 |
| 72.5° | 898.9 | 934.5 | 1497.9 | 2069.9 | 3327.4 | 6156.8 | 9086.2 | 10843.7 | 11834.9 | 11758.9 |
| 75° | 479.7 | 510.5 | 860.5 | 1135.4 | 1757.4 | 4220.6 | 7435.5 | 9341.0 | 9938.0 | 9568.9 |
| 77.5° | 325.0 | 349.0 | 532.6 | 681.6 | 802.8 | 2003.6 | 4779.1 | 6467.4 | 6222.2 | 5612.7 |
| 80° | 257.7 | 282.7 | 436.5 | 461.5 | 388.4 | 723.9 | 1974.7 | 2993.8 | 2150.7 | 1720.0 |
| 82.5° | 198.0 | 225.9 | 367.3 | 334.6 | 211.5 | 297.1 | 574.9 | 947.0 | 550.9 | 419.2 |
| 85° | 121.1 | 150.9 | 288.4 | 213.4 | 119.2 | 135.6 | 195.2 | 263.4 | 168.2 | 140.4 |
| 87.5° | 61.5 | 86.5 | 146.1 | 77.9 | 53.8 | 31.7 | 51.9 | 51.9 | 44.2 | 38.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P947515
 CATALOG NUMBER: GLAN-SB2D-830-U-T3R

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2618.9 | 0° | 2618.9 | 2618.9 | 2618.9 | 2618.9 | 2618.9 | 2618.9 | 2618.9 | 2618.9 | 2618.9 | 2618.9 |
| 2605.4 | 2.5° | 2628.5 | 2647.7 | 2680.4 | 2711.2 | 2735.2 | 2758.3 | 2781.3 | 2793.8 | 2797.7 | 2813.1 |
| 2619.8 | 5° | 2659.2 | 2694.8 | 2758.3 | 2817.9 | 2855.4 | 2878.4 | 2894.8 | 2904.4 | 2906.3 | 2911.1 |
| 2659.2 | 7.5° | 2716.0 | 2772.7 | 2861.1 | 2920.7 | 2948.6 | 2946.7 | 2940.0 | 2915.9 | 2906.3 | 2897.7 |
| 2716.9 | 10° | 2795.8 | 2870.8 | 2979.4 | 3020.7 | 3003.4 | 2957.3 | 2897.7 | 2827.5 | 2794.8 | 2763.1 |
| 2795.8 | 12.5° | 2894.8 | 2990.0 | 3096.7 | 3094.8 | 3009.2 | 2890.9 | 2752.5 | 2644.8 | 2576.6 | 2527.5 |
| 2892.9 | 15° | 3015.0 | 3124.6 | 3206.3 | 3140.9 | 2953.4 | 2741.0 | 2538.1 | 2397.7 | 2336.2 | 2282.4 |
| 2990.9 | 17.5° | 3139.0 | 3256.3 | 3293.8 | 3126.5 | 2813.1 | 2518.9 | 2289.1 | 2178.5 | 2118.0 | 2089.1 |
| 3096.7 | 20° | 3260.1 | 3376.5 | 3345.7 | 3043.8 | 2599.6 | 2267.0 | 2062.2 | 2001.6 | 1989.1 | 1995.9 |
| 3199.6 | 22.5° | 3388.0 | 3491.8 | 3356.3 | 2884.2 | 2327.6 | 2009.3 | 1896.9 | 1898.8 | 1926.7 | 1946.8 |
| 3307.2 | 25° | 3518.7 | 3588.9 | 3328.4 | 2653.5 | 2035.3 | 1819.9 | 1792.1 | 1822.8 | 1877.6 | 1917.0 |
| 3428.4 | 27.5° | 3644.7 | 3675.4 | 3267.8 | 2367.9 | 1784.4 | 1684.4 | 1689.2 | 1752.6 | 1835.3 | 1890.1 |
| 3575.5 | 30° | 3787.0 | 3752.4 | 3151.5 | 2046.8 | 1610.4 | 1568.1 | 1608.4 | 1682.5 | 1765.1 | 1814.2 |
| 3761.0 | 32.5° | 3947.5 | 3818.7 | 2966.9 | 1749.8 | 1487.3 | 1474.8 | 1541.1 | 1589.2 | 1625.7 | 1640.2 |
| 4007.1 | 35° | 4147.5 | 3912.0 | 2730.4 | 1541.1 | 1376.7 | 1406.5 | 1470.0 | 1446.0 | 1431.5 | 1423.8 |
| 4337.9 | 37.5° | 4407.1 | 4037.9 | 2453.5 | 1405.6 | 1287.3 | 1357.5 | 1383.5 | 1308.5 | 1251.7 | 1223.9 |
| 4738.8 | 40° | 4719.5 | 4222.5 | 2187.2 | 1300.8 | 1230.6 | 1315.2 | 1270.0 | 1179.6 | 1107.5 | 1068.1 |
| 5189.7 | 42.5° | 5066.6 | 4415.7 | 1963.2 | 1221.9 | 1198.9 | 1280.6 | 1186.4 | 1078.7 | 962.4 | 949.9 |
| 5727.1 | 45° | 5431.0 | 4614.7 | 1810.3 | 1161.4 | 1183.5 | 1250.8 | 1138.3 | 964.3 | 881.6 | 932.6 |
| 6266.4 | 47.5° | 5795.3 | 4797.4 | 1718.0 | 1116.2 | 1175.8 | 1217.1 | 1096.0 | 900.8 | 842.2 | 916.2 |
| 6844.2 | 50° | 6201.1 | 4960.8 | 1676.7 | 1083.5 | 1167.1 | 1203.7 | 1032.5 | 884.5 | 800.8 | 849.9 |
| 7442.2 | 52.5° | 6603.9 | 5087.8 | 1645.9 | 1050.8 | 1154.6 | 1193.1 | 1001.8 | 865.3 | 750.9 | 753.7 |
| 8044.1 | 55° | 7005.8 | 5170.4 | 1612.3 | 1007.6 | 1126.8 | 1170.0 | 998.9 | 844.1 | 713.4 | 699.9 |
| 8680.5 | 57.5° | 7434.5 | 5217.5 | 1570.9 | 959.5 | 1078.7 | 1111.4 | 996.0 | 827.8 | 701.8 | 679.7 |
| 9331.4 | 60° | 7871.0 | 5286.8 | 1517.1 | 900.8 | 1014.3 | 1041.2 | 989.3 | 822.0 | 695.1 | 657.6 |
| 9944.8 | 62.5° | 8262.3 | 5310.8 | 1452.7 | 845.1 | 931.6 | 972.0 | 974.9 | 817.2 | 676.8 | 612.4 |
| 10454.3 | 65° | 8519.0 | 5207.0 | 1340.2 | 781.6 | 842.2 | 900.8 | 947.0 | 800.8 | 644.1 | 579.7 |
| 10706.2 | 67.5° | 8508.4 | 4910.9 | 1164.3 | 699.9 | 755.7 | 822.0 | 906.6 | 773.0 | 604.7 | 539.3 |
| 10515.8 | 70° | 8112.3 | 4326.3 | 941.2 | 604.7 | 660.5 | 737.4 | 854.7 | 731.6 | 557.6 | 495.1 |
| 9350.6 | 72.5° | 6957.7 | 3386.1 | 683.6 | 493.2 | 549.9 | 649.9 | 787.4 | 681.6 | 509.5 | 455.7 |
| 6910.6 | 75° | 4970.5 | 2143.0 | 463.4 | 378.8 | 427.8 | 550.9 | 703.7 | 623.0 | 465.3 | 457.6 |
| 3461.1 | 77.5° | 2539.1 | 1023.9 | 306.7 | 276.9 | 298.0 | 434.6 | 591.3 | 556.7 | 472.0 | 377.8 |
| 984.5 | 80° | 825.8 | 377.8 | 193.2 | 188.4 | 198.0 | 289.4 | 457.6 | 456.7 | 357.6 | 256.7 |
| 238.4 | 82.5° | 263.4 | 162.5 | 125.9 | 121.1 | 116.3 | 181.7 | 319.2 | 361.5 | 241.3 | 162.5 |
| 85.6 | 85° | 104.8 | 97.1 | 74.0 | 68.3 | 49.0 | 85.6 | 167.3 | 240.4 | 179.8 | 117.3 |
| 22.1 | 87.5° | 38.5 | 38.5 | 20.2 | 14.4 | 10.6 | 28.8 | 45.2 | 72.1 | 102.9 | 60.6 |
| 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° |
|--------|
| 2618.9 |
| 2821.7 |
| 2918.8 |
| 2899.6 |
| 2753.5 |
| 2516.0 |
| 2276.6 |
| 2097.8 |
| 1993.0 |
| 1951.7 |
| 1927.6 |
| 1903.6 |
| 1825.7 |
| 1647.8 |
| 1431.5 |
| 1230.6 |
| 1071.0 |
| 962.4 |
| 959.5 |
| 950.8 |
| 886.4 |
| 773.9 |
| 709.5 |
| 682.6 |
| 660.5 |
| 612.4 |
| 579.7 |
| 542.2 |
| 500.9 |
| 452.8 |
| 431.7 |
| 336.5 |
| 226.9 |
| 161.5 |
| 120.2 |
| 59.6 |
| 0.0 |

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