

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: P852206

Luminaire Tested: **GLAN-SB2A-850-U-T4FT-HSS**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P852206
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-SB2A-850-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 350mA 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: 5832 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

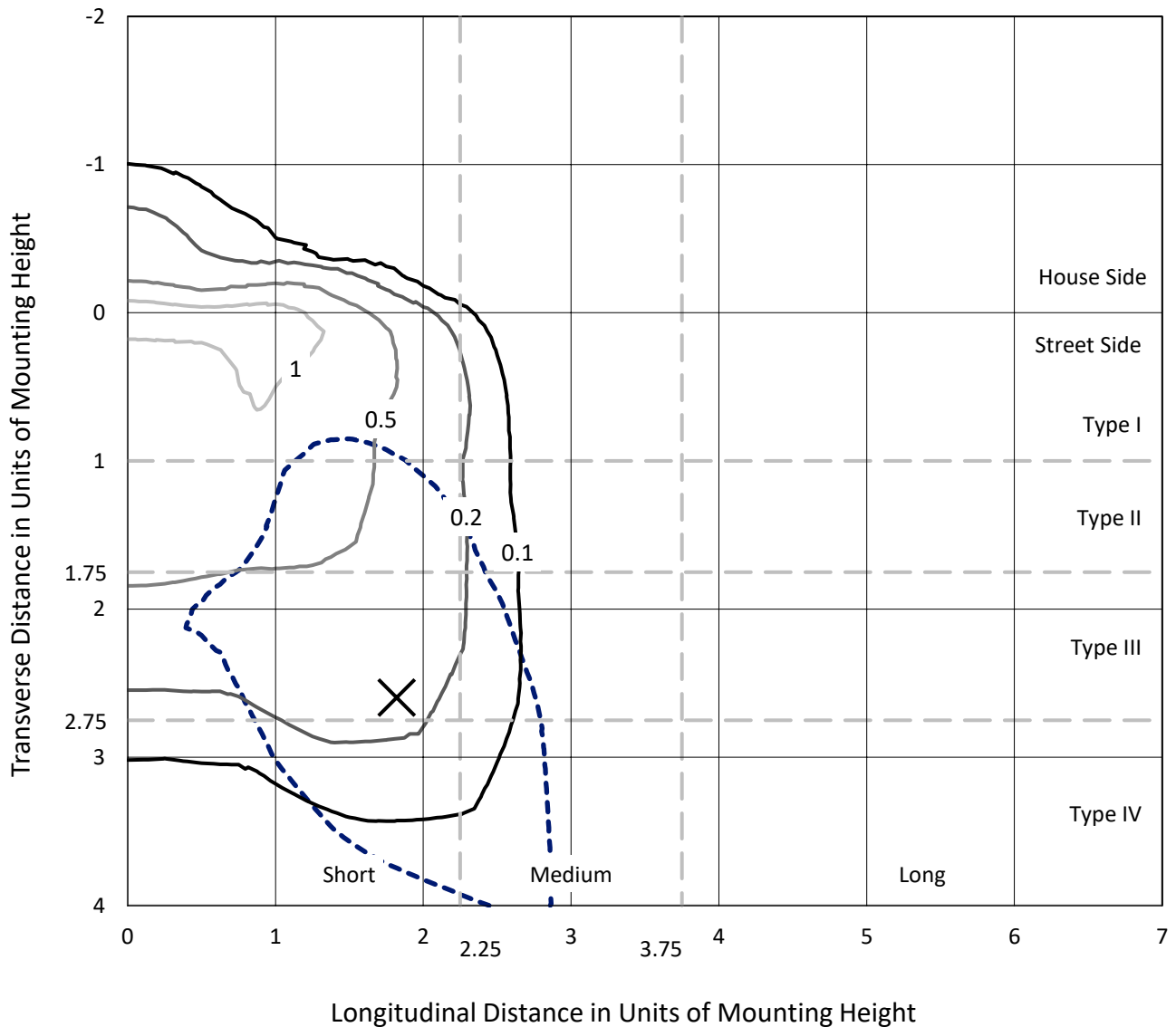
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

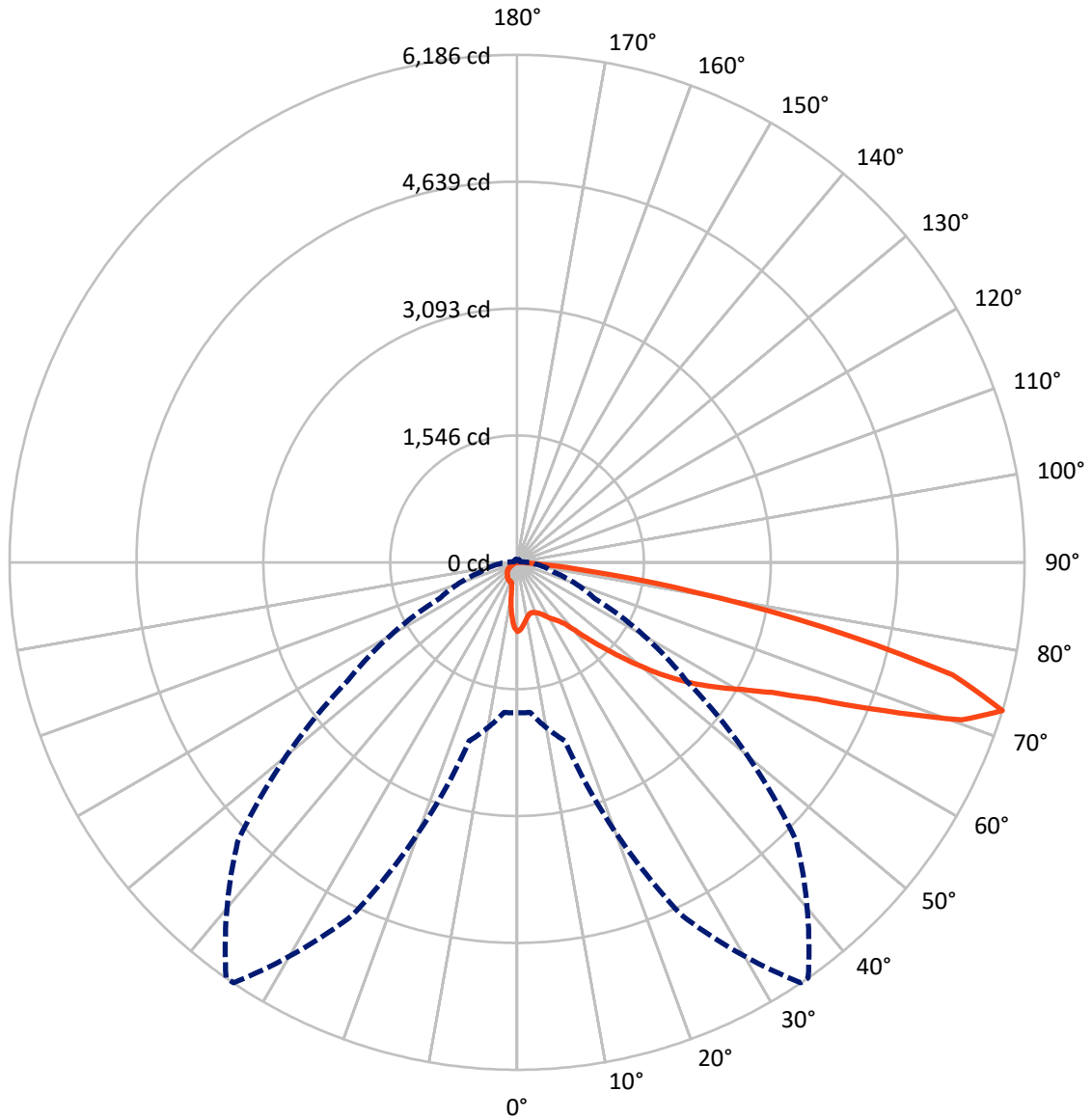
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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 | 656.4 | 0.0 | 656.4 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 5175.6 | 0.0 | 5175.6 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 5832.0 | 0.0 | 5832.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 69.5 | 1.2 |
| 10°-20° | 162.5 | 2.8 |
| 20°-30° | 264.0 | 4.5 |
| 30°-40° | 440.4 | 7.6 |
| 40°-50° | 833.3 | 14.3 |
| 50°-60° | 1324.0 | 22.7 |
| 60°-70° | 1637.9 | 28.1 |
| 70°-80° | 1018.2 | 17.5 |
| 80°-90° | 82.3 | 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° | 5832.0 | 100.0 |
| 0°-180° | 5832.0 | 100.0 |

Coefficient of Utilization

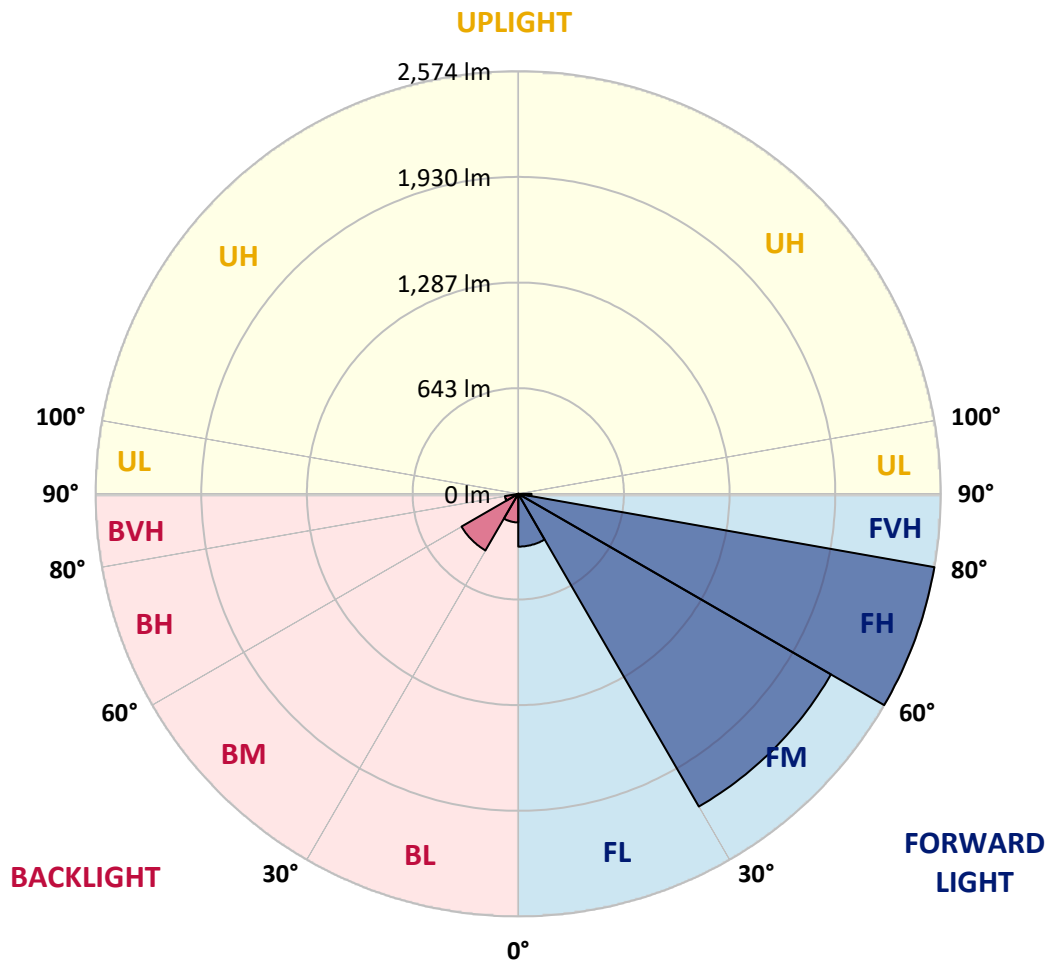


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 321.5 | 5.5 | | | |
| FM (30°-60°) | 2199.2 | 37.7 | | | |
| FH (60°-80°) | 2573.7 | 44.1 | | | G2/5000 |
| FVH (80°-90°) | 81.2 | 1.4 | | | G1/100 |
| BL (0°-30°) | 174.4 | 3.0 | B1/500 | | |
| BM (30°-60°) | 398.5 | 6.8 | B1/1000 | | |
| BH (60°-80°) | 82.4 | 1.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 845.3 | 845.3 | 845.3 | 845.3 | 845.3 | 845.3 | 845.3 | 845.3 | 845.3 | 845.3 |
| 2.5° | 807.6 | 814.5 | 815.8 | 817.9 | 817.9 | 820.5 | 824.7 | 830.7 | 840.6 | 845.7 |
| 5° | 744.4 | 749.5 | 755.9 | 761.1 | 770.9 | 772.2 | 788.8 | 805.1 | 827.7 | 844.8 |
| 7.5° | 680.7 | 686.7 | 695.3 | 707.7 | 720.5 | 724.3 | 749.5 | 776.9 | 812.8 | 844.8 |
| 10° | 635.9 | 636.3 | 644.0 | 656.4 | 676.9 | 681.6 | 712.4 | 751.2 | 796.1 | 839.7 |
| 12.5° | 610.6 | 613.6 | 617.1 | 626.5 | 646.1 | 649.1 | 682.0 | 727.7 | 779.4 | 836.7 |
| 15° | 610.6 | 612.8 | 614.9 | 619.6 | 635.4 | 638.0 | 667.1 | 712.8 | 770.9 | 838.0 |
| 17.5° | 617.1 | 620.5 | 618.8 | 624.3 | 641.0 | 642.7 | 668.3 | 708.5 | 770.5 | 846.1 |
| 20° | 632.4 | 635.0 | 631.6 | 635.0 | 651.7 | 655.1 | 681.6 | 716.6 | 777.7 | 860.2 |
| 22.5° | 656.8 | 658.1 | 650.0 | 652.5 | 669.6 | 673.9 | 704.7 | 739.7 | 795.3 | 882.9 |
| 25° | 687.6 | 690.1 | 677.7 | 680.7 | 697.0 | 702.1 | 737.6 | 774.3 | 823.0 | 914.1 |
| 27.5° | 723.0 | 724.3 | 713.6 | 713.2 | 734.1 | 741.4 | 777.3 | 817.0 | 860.2 | 953.4 |
| 30° | 763.6 | 767.5 | 757.2 | 755.5 | 782.0 | 788.0 | 823.5 | 869.6 | 914.9 | 1012.3 |
| 32.5° | 795.7 | 798.7 | 792.7 | 797.0 | 823.9 | 828.6 | 879.4 | 944.0 | 1000.8 | 1096.1 |
| 35° | 841.8 | 843.5 | 829.9 | 837.6 | 868.3 | 880.3 | 955.9 | 1048.2 | 1108.9 | 1201.2 |
| 37.5° | 1008.9 | 1008.9 | 950.8 | 912.8 | 942.3 | 952.9 | 1060.6 | 1179.4 | 1242.2 | 1342.2 |
| 40° | 1240.1 | 1236.3 | 1151.2 | 1073.4 | 1069.6 | 1090.5 | 1209.8 | 1344.8 | 1414.5 | 1511.5 |
| 42.5° | 1486.7 | 1480.7 | 1364.9 | 1288.0 | 1275.1 | 1282.4 | 1382.0 | 1548.6 | 1619.6 | 1717.9 |
| 45° | 1705.5 | 1703.8 | 1597.8 | 1494.4 | 1471.3 | 1494.4 | 1596.9 | 1787.1 | 1837.9 | 1941.3 |
| 47.5° | 1888.8 | 1888.8 | 1811.4 | 1743.9 | 1732.0 | 1745.6 | 1887.9 | 2051.6 | 2046.9 | 2179.4 |
| 50° | 2099.9 | 2098.2 | 2024.7 | 1995.6 | 2008.0 | 2027.2 | 2223.0 | 2330.2 | 2263.1 | 2413.1 |
| 52.5° | 2247.7 | 2258.0 | 2232.8 | 2228.1 | 2291.3 | 2324.7 | 2563.1 | 2602.8 | 2456.7 | 2634.9 |
| 55° | 2364.8 | 2376.8 | 2405.8 | 2438.8 | 2560.5 | 2604.1 | 2892.6 | 2861.4 | 2618.7 | 2827.2 |
| 57.5° | 2530.6 | 2513.5 | 2558.4 | 2623.4 | 2820.4 | 2872.9 | 3211.8 | 3105.4 | 2749.0 | 2983.2 |
| 60° | 2731.9 | 2734.5 | 2742.2 | 2824.2 | 3079.7 | 3147.3 | 3526.3 | 3336.1 | 2832.7 | 3078.9 |
| 62.5° | 2973.8 | 2977.6 | 2993.4 | 3119.5 | 3428.0 | 3491.7 | 3861.3 | 3525.0 | 2871.2 | 3052.0 |
| 65° | 2957.1 | 2973.3 | 3149.8 | 3581.0 | 3957.5 | 4020.3 | 4252.3 | 3657.5 | 2813.1 | 2805.8 |
| 67.5° | 2693.9 | 2720.4 | 3015.6 | 4132.2 | 4755.7 | 4825.8 | 4725.0 | 3683.6 | 2562.3 | 2181.9 |
| 70° | 2348.6 | 2358.0 | 2713.1 | 4627.9 | 5680.0 | 5751.0 | 5148.0 | 3396.8 | 1944.3 | 1217.0 |
| 72.5° | 1834.1 | 1836.2 | 2252.9 | 4742.9 | 6181.7 | 6185.6 | 4816.0 | 2521.7 | 1045.7 | 467.5 |
| 75° | 1310.2 | 1297.4 | 1508.9 | 3846.4 | 5438.6 | 5482.2 | 3610.5 | 1182.8 | 399.6 | 220.9 |
| 77.5° | 702.5 | 716.6 | 853.8 | 2281.1 | 3757.1 | 3831.4 | 1970.0 | 341.0 | 203.4 | 150.4 |
| 80° | 217.1 | 229.0 | 350.0 | 1044.4 | 2128.1 | 2173.0 | 730.3 | 151.7 | 141.9 | 107.3 |
| 82.5° | 68.4 | 70.9 | 163.2 | 438.9 | 883.3 | 903.8 | 211.5 | 85.9 | 97.0 | 70.9 |
| 85° | 19.7 | 20.1 | 72.6 | 163.7 | 218.4 | 222.6 | 59.4 | 33.3 | 55.6 | 44.0 |
| 87.5° | 2.1 | 6.8 | 27.3 | 27.3 | 19.2 | 18.8 | 6.4 | 7.3 | 15.8 | 5.6 |
| 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° |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 845.3 | 0° | 845.3 | 845.3 | 845.3 | 845.3 | 845.3 | 845.3 | 845.3 | 845.3 | 845.3 | 845.3 |
| 849.1 | 2.5° | 847.0 | 847.4 | 841.8 | 832.4 | 822.2 | 813.6 | 802.9 | 794.4 | 788.4 | 786.7 |
| 856.8 | 5° | 852.9 | 850.0 | 834.1 | 805.5 | 771.3 | 741.8 | 708.9 | 682.9 | 665.8 | 658.5 |
| 864.9 | 7.5° | 861.9 | 853.4 | 818.8 | 762.4 | 697.0 | 638.9 | 579.9 | 534.2 | 505.1 | 490.6 |
| 872.6 | 10° | 869.6 | 852.5 | 793.1 | 700.0 | 600.0 | 511.9 | 432.5 | 377.3 | 346.6 | 332.0 |
| 881.6 | 12.5° | 876.9 | 852.1 | 759.8 | 626.0 | 490.6 | 382.9 | 309.0 | 281.6 | 273.1 | 270.1 |
| 896.1 | 15° | 890.5 | 853.4 | 717.9 | 541.4 | 381.6 | 289.3 | 262.4 | 262.0 | 263.7 | 262.8 |
| 918.3 | 17.5° | 909.4 | 854.7 | 670.5 | 451.7 | 294.4 | 255.1 | 253.8 | 257.7 | 260.2 | 259.0 |
| 946.1 | 20° | 933.7 | 859.8 | 620.1 | 362.8 | 253.0 | 246.6 | 249.6 | 253.0 | 255.1 | 253.0 |
| 983.3 | 22.5° | 967.9 | 868.8 | 564.9 | 291.4 | 239.7 | 241.4 | 244.0 | 247.8 | 250.0 | 247.0 |
| 1030.7 | 25° | 1009.8 | 882.9 | 510.7 | 253.4 | 233.3 | 235.5 | 239.3 | 243.6 | 246.1 | 243.1 |
| 1090.5 | 27.5° | 1064.0 | 905.5 | 460.7 | 244.9 | 226.9 | 228.2 | 233.7 | 240.2 | 243.6 | 239.7 |
| 1175.6 | 30° | 1142.7 | 942.7 | 417.5 | 248.7 | 223.1 | 220.1 | 227.8 | 236.7 | 240.6 | 237.2 |
| 1291.4 | 32.5° | 1246.9 | 995.2 | 391.0 | 254.7 | 221.4 | 210.7 | 217.9 | 229.5 | 235.9 | 233.7 |
| 1442.7 | 35° | 1383.7 | 1075.2 | 380.7 | 261.5 | 220.1 | 200.8 | 206.0 | 218.4 | 229.5 | 231.6 |
| 1633.2 | 37.5° | 1549.5 | 1186.3 | 383.7 | 264.5 | 216.2 | 192.7 | 195.3 | 206.0 | 220.5 | 227.3 |
| 1847.8 | 40° | 1737.9 | 1315.7 | 400.8 | 261.5 | 212.0 | 185.9 | 186.3 | 194.4 | 207.3 | 217.5 |
| 2078.5 | 42.5° | 1932.4 | 1467.0 | 432.5 | 250.4 | 208.1 | 179.9 | 178.6 | 184.2 | 192.7 | 200.0 |
| 2308.8 | 45° | 2117.4 | 1622.6 | 463.6 | 235.0 | 203.4 | 173.9 | 170.9 | 173.1 | 174.8 | 177.8 |
| 2533.2 | 47.5° | 2278.9 | 1732.0 | 454.7 | 220.9 | 197.0 | 167.1 | 162.0 | 161.1 | 156.0 | 155.5 |
| 2733.6 | 50° | 2390.5 | 1755.9 | 403.8 | 206.8 | 187.6 | 159.4 | 151.3 | 146.1 | 137.2 | 132.9 |
| 2883.6 | 52.5° | 2425.9 | 1661.4 | 329.9 | 192.7 | 172.2 | 149.1 | 137.6 | 129.5 | 118.4 | 114.5 |
| 2969.9 | 55° | 2378.9 | 1476.4 | 263.7 | 175.6 | 150.8 | 135.5 | 122.6 | 112.0 | 103.0 | 98.3 |
| 2979.3 | 57.5° | 2264.0 | 1241.0 | 208.5 | 155.5 | 128.2 | 120.1 | 107.3 | 96.6 | 88.9 | 84.2 |
| 2875.1 | 60° | 2073.4 | 985.4 | 164.9 | 131.6 | 109.4 | 103.4 | 90.2 | 83.3 | 76.5 | 70.9 |
| 2605.8 | 62.5° | 1784.1 | 703.4 | 129.5 | 104.3 | 91.4 | 84.6 | 76.9 | 71.8 | 63.7 | 56.0 |
| 2121.7 | 65° | 1392.2 | 430.3 | 100.0 | 76.5 | 73.5 | 70.1 | 65.4 | 60.7 | 50.9 | 43.2 |
| 1384.1 | 67.5° | 878.2 | 203.8 | 71.4 | 57.7 | 58.1 | 56.4 | 54.3 | 50.4 | 43.2 | 36.3 |
| 620.1 | 70° | 386.7 | 98.7 | 47.0 | 44.0 | 43.2 | 43.2 | 44.9 | 43.6 | 36.8 | 30.3 |
| 215.4 | 72.5° | 131.6 | 53.0 | 35.0 | 33.3 | 31.2 | 30.8 | 37.6 | 36.3 | 29.5 | 23.5 |
| 107.3 | 75° | 68.8 | 35.5 | 25.6 | 23.9 | 18.8 | 22.6 | 29.9 | 28.2 | 20.9 | 15.4 |
| 70.9 | 77.5° | 44.9 | 25.2 | 17.5 | 15.4 | 10.7 | 15.0 | 22.2 | 19.7 | 12.4 | 7.7 |
| 46.6 | 80° | 28.2 | 16.7 | 10.3 | 7.3 | 5.1 | 8.1 | 12.0 | 8.5 | 4.7 | 1.7 |
| 27.3 | 82.5° | 15.0 | 8.5 | 3.8 | 2.6 | 2.1 | 2.6 | 3.0 | 2.1 | 0.9 | 0.0 |
| 14.1 | 85° | 6.0 | 3.0 | 1.3 | 0.9 | 0.4 | 0.0 | 0.9 | 0.4 | 0.0 | 0.0 |
| 2.6 | 87.5° | 2.1 | 0.4 | 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

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|-------|
| 180° |
| 845.3 |
| 789.7 |
| 661.1 |
| 492.7 |
| 332.5 |
| 269.2 |
| 262.4 |
| 258.5 |
| 252.6 |
| 246.6 |
| 242.7 |
| 239.7 |
| 236.7 |
| 233.7 |
| 231.6 |
| 229.0 |
| 220.9 |
| 203.0 |
| 179.5 |
| 155.1 |
| 133.3 |
| 114.1 |
| 98.3 |
| 83.3 |
| 69.7 |
| 54.7 |
| 41.9 |
| 35.5 |
| 29.1 |
| 22.2 |
| 14.1 |
| 6.8 |
| 1.3 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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