

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: P852202

Luminaire Tested: **GLAN-SB2A-835-U-T4FT-HSS**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P852202
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-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 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: 5624 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

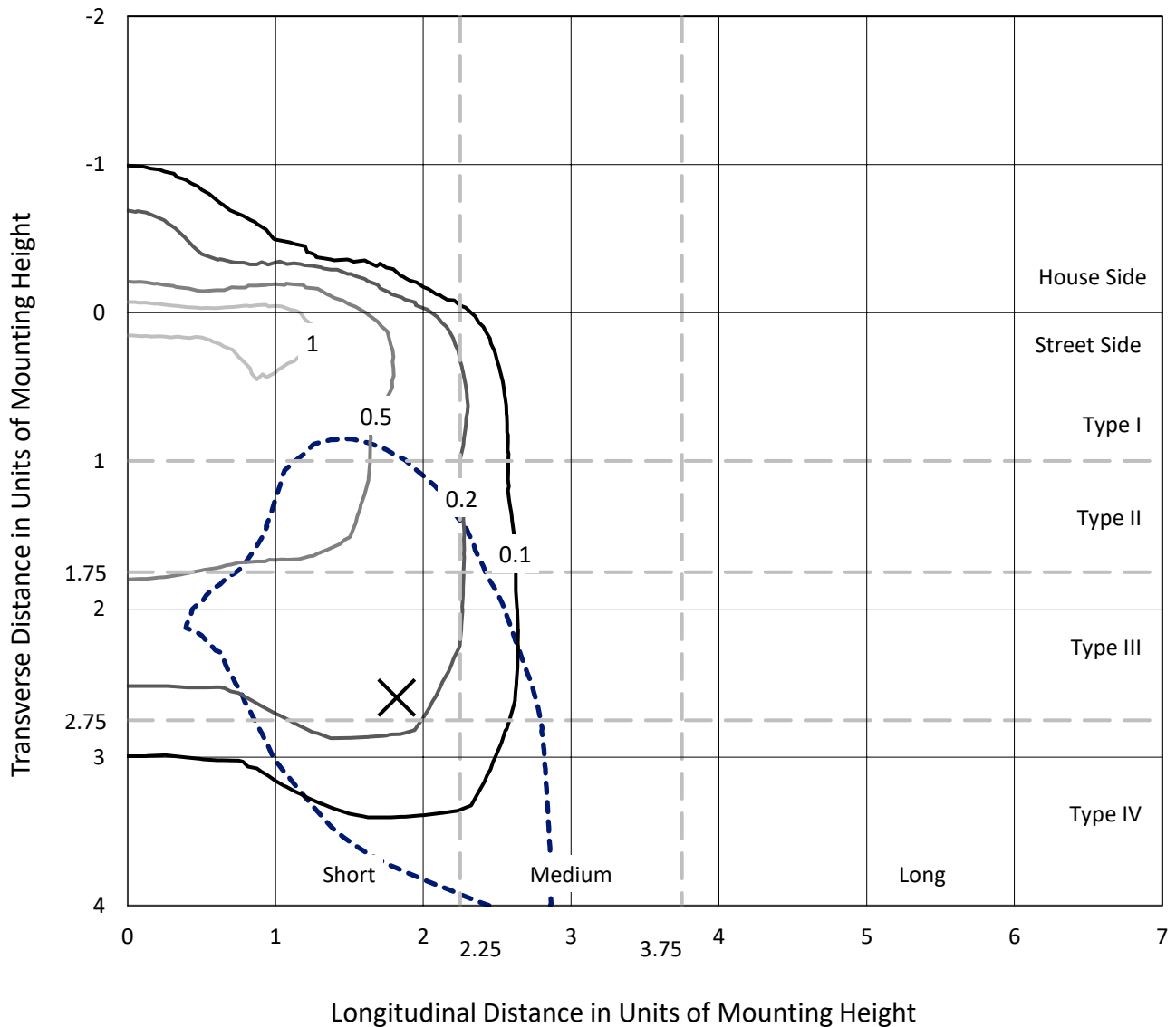
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

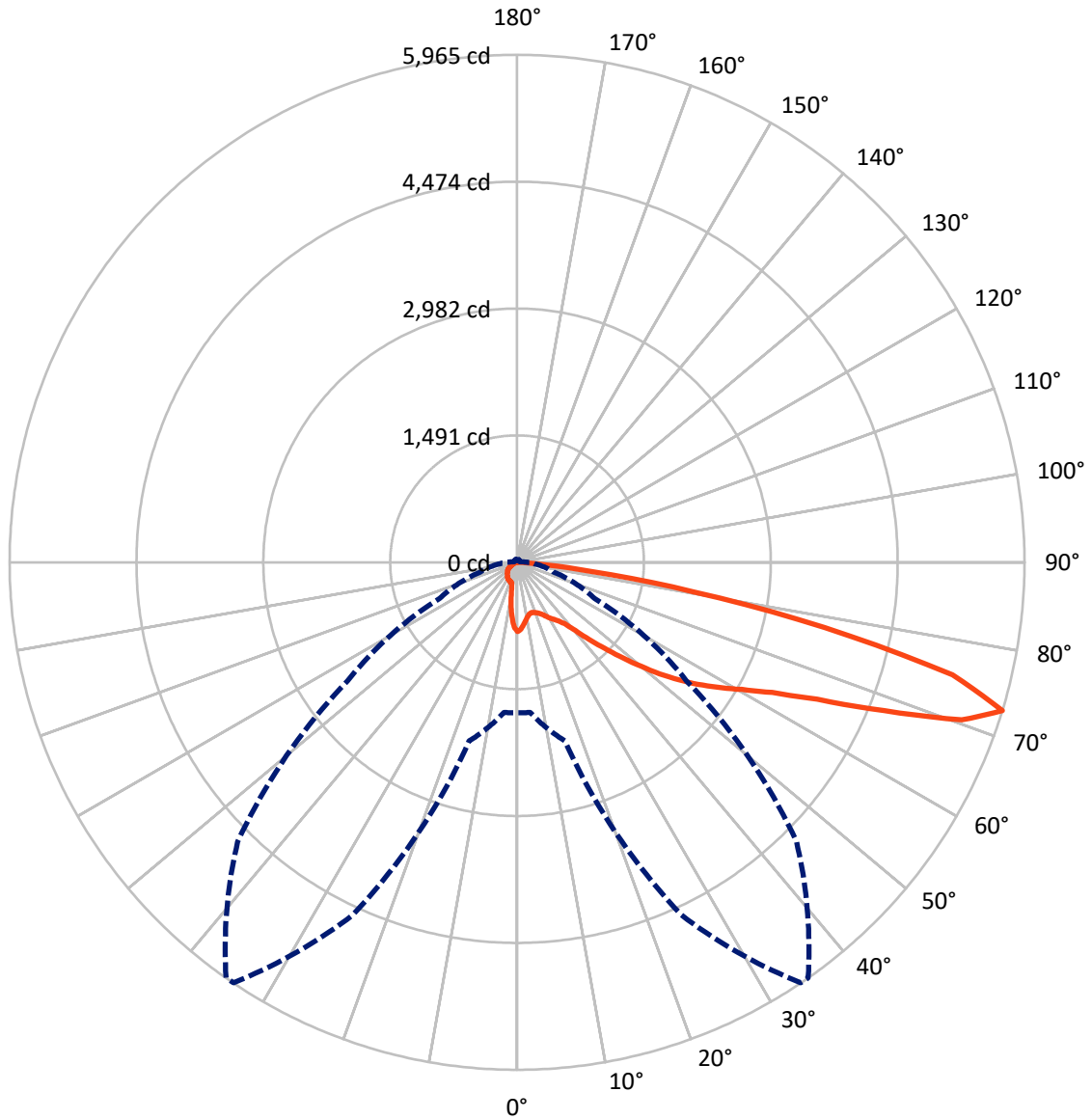
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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 | 633.0 | 0.0 | 633.0 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 4991.0 | 0.0 | 4991.0 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 5624.0 | 0.0 | 5624.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 67.0 | 1.2 |
| 10°-20° | 156.7 | 2.8 |
| 20°-30° | 254.5 | 4.5 |
| 30°-40° | 424.7 | 7.6 |
| 40°-50° | 803.5 | 14.3 |
| 50°-60° | 1276.8 | 22.7 |
| 60°-70° | 1579.5 | 28.1 |
| 70°-80° | 981.8 | 17.5 |
| 80°-90° | 79.3 | 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° | 5624.0 | 100.0 |
| 0°-180° | 5624.0 | 100.0 |

Coefficient of Utilization

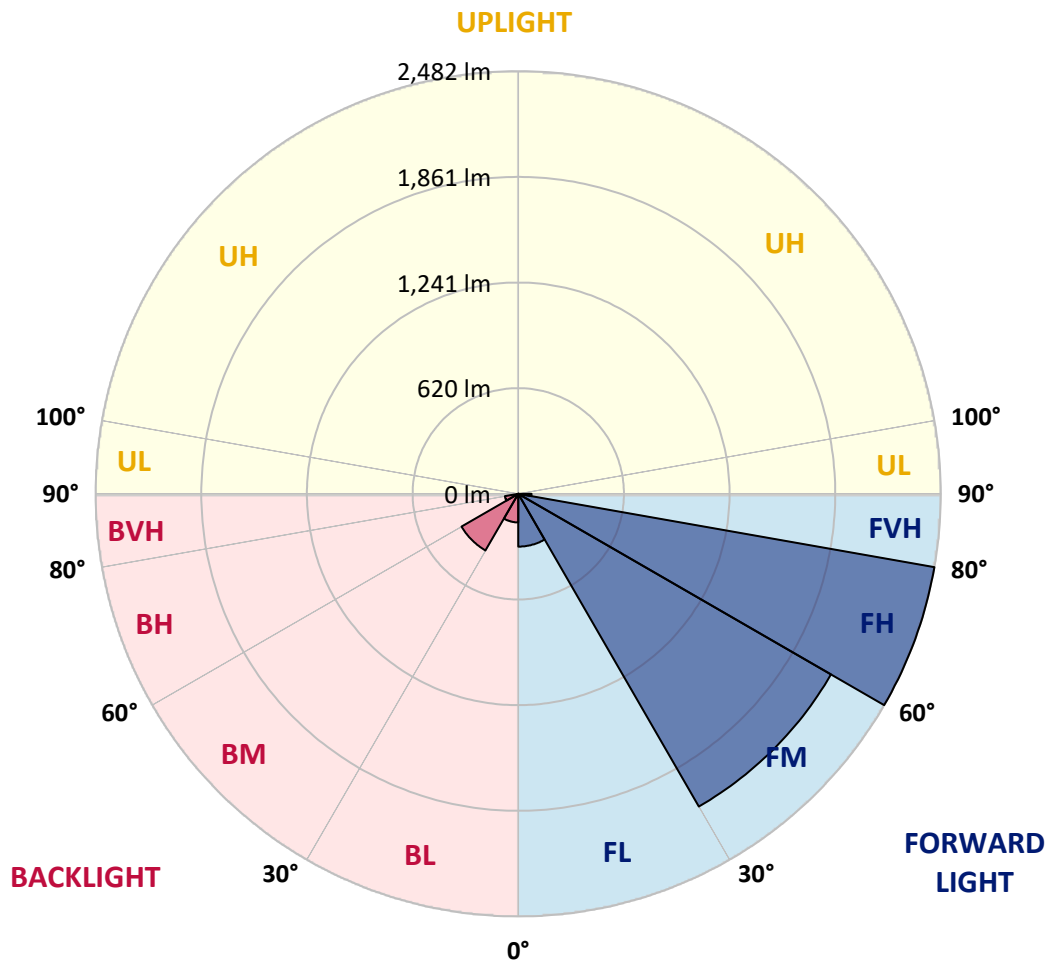


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 310.0 | 5.5 | | | |
| FM (30°-60°) | 2120.8 | 37.7 | | | |
| FH (60°-80°) | 2481.9 | 44.1 | | | G2/5000 |
| FVH (80°-90°) | 78.3 | 1.4 | | | G1/100 |
| BL (0°-30°) | 168.2 | 3.0 | B1/500 | | |
| BM (30°-60°) | 384.3 | 6.8 | B1/1000 | | |
| BH (60°-80°) | 79.4 | 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° | 815.1 | 815.1 | 815.1 | 815.1 | 815.1 | 815.1 | 815.1 | 815.1 | 815.1 | 815.1 |
| 2.5° | 778.8 | 785.4 | 786.7 | 788.7 | 788.7 | 791.2 | 795.3 | 801.1 | 810.6 | 815.5 |
| 5° | 717.9 | 722.8 | 729.0 | 733.9 | 743.4 | 744.6 | 760.7 | 776.4 | 798.2 | 814.7 |
| 7.5° | 656.5 | 662.2 | 670.5 | 682.4 | 694.8 | 698.5 | 722.8 | 749.2 | 783.8 | 814.7 |
| 10° | 613.2 | 613.6 | 621.0 | 633.0 | 652.7 | 657.3 | 686.9 | 724.4 | 767.7 | 809.7 |
| 12.5° | 588.9 | 591.8 | 595.1 | 604.1 | 623.1 | 626.0 | 657.7 | 701.8 | 751.6 | 806.9 |
| 15° | 588.9 | 590.9 | 593.0 | 597.5 | 612.8 | 615.2 | 643.3 | 687.4 | 743.4 | 808.1 |
| 17.5° | 595.1 | 598.3 | 596.7 | 602.1 | 618.1 | 619.8 | 644.5 | 683.2 | 743.0 | 815.9 |
| 20° | 609.9 | 612.4 | 609.1 | 612.4 | 628.4 | 631.7 | 657.3 | 691.1 | 750.0 | 829.5 |
| 22.5° | 633.4 | 634.6 | 626.8 | 629.3 | 645.7 | 649.9 | 679.5 | 713.3 | 766.9 | 851.4 |
| 25° | 663.0 | 665.5 | 653.6 | 656.5 | 672.1 | 677.1 | 711.3 | 746.7 | 793.7 | 881.5 |
| 27.5° | 697.2 | 698.5 | 688.2 | 687.8 | 708.0 | 715.0 | 749.6 | 787.9 | 829.5 | 919.4 |
| 30° | 736.4 | 740.1 | 730.2 | 728.6 | 754.1 | 759.9 | 794.1 | 838.6 | 882.3 | 976.2 |
| 32.5° | 767.3 | 770.2 | 764.4 | 768.5 | 794.5 | 799.0 | 848.1 | 910.3 | 965.1 | 1057.0 |
| 35° | 811.8 | 813.5 | 800.3 | 807.7 | 837.4 | 848.9 | 921.8 | 1010.8 | 1069.4 | 1158.4 |
| 37.5° | 972.9 | 972.9 | 916.9 | 880.2 | 908.6 | 919.0 | 1022.8 | 1137.4 | 1197.9 | 1294.4 |
| 40° | 1195.9 | 1192.2 | 1110.2 | 1035.2 | 1031.5 | 1051.6 | 1166.6 | 1296.8 | 1364.0 | 1457.5 |
| 42.5° | 1433.6 | 1427.9 | 1316.2 | 1242.0 | 1229.7 | 1236.7 | 1332.7 | 1493.4 | 1561.8 | 1656.6 |
| 45° | 1644.6 | 1643.0 | 1540.8 | 1441.1 | 1418.8 | 1441.1 | 1540.0 | 1723.3 | 1772.4 | 1872.1 |
| 47.5° | 1821.4 | 1821.4 | 1746.8 | 1681.7 | 1670.2 | 1683.4 | 1820.6 | 1978.4 | 1973.9 | 2101.6 |
| 50° | 2025.0 | 2023.3 | 1952.5 | 1924.4 | 1936.4 | 1954.9 | 2143.7 | 2247.1 | 2182.4 | 2327.0 |
| 52.5° | 2167.6 | 2177.5 | 2153.1 | 2148.6 | 2209.6 | 2241.7 | 2471.7 | 2510.0 | 2369.1 | 2540.9 |
| 55° | 2280.5 | 2292.0 | 2320.0 | 2351.8 | 2469.2 | 2511.3 | 2789.4 | 2759.3 | 2525.3 | 2726.4 |
| 57.5° | 2440.4 | 2423.9 | 2467.2 | 2529.8 | 2719.8 | 2770.5 | 3097.2 | 2994.6 | 2650.9 | 2876.8 |
| 60° | 2634.5 | 2636.9 | 2644.4 | 2723.5 | 2969.9 | 3035.0 | 3400.5 | 3217.2 | 2731.7 | 2969.1 |
| 62.5° | 2867.7 | 2871.4 | 2886.7 | 3008.2 | 3305.8 | 3367.2 | 3723.6 | 3399.3 | 2768.8 | 2943.1 |
| 65° | 2851.6 | 2867.3 | 3037.5 | 3453.3 | 3816.3 | 3876.9 | 4100.7 | 3527.0 | 2712.8 | 2705.8 |
| 67.5° | 2597.8 | 2623.3 | 2908.1 | 3984.9 | 4586.1 | 4653.7 | 4556.4 | 3552.2 | 2470.9 | 2104.1 |
| 70° | 2264.8 | 2273.9 | 2616.3 | 4462.9 | 5477.4 | 5545.9 | 4964.4 | 3275.7 | 1875.0 | 1173.6 |
| 72.5° | 1768.7 | 1770.7 | 2172.5 | 4573.7 | 5961.2 | 5964.9 | 4644.2 | 2431.7 | 1008.4 | 450.8 |
| 75° | 1263.5 | 1251.1 | 1455.1 | 3709.2 | 5244.6 | 5286.7 | 3481.7 | 1140.7 | 385.3 | 213.0 |
| 77.5° | 677.5 | 691.1 | 823.3 | 2199.7 | 3623.1 | 3694.8 | 1899.7 | 328.8 | 196.2 | 145.1 |
| 80° | 209.3 | 220.9 | 337.5 | 1007.1 | 2052.2 | 2095.5 | 704.3 | 146.3 | 136.8 | 103.4 |
| 82.5° | 65.9 | 68.4 | 157.4 | 423.2 | 851.8 | 871.6 | 204.0 | 82.8 | 93.5 | 68.4 |
| 85° | 19.0 | 19.4 | 70.1 | 157.8 | 210.6 | 214.7 | 57.3 | 32.1 | 53.6 | 42.4 |
| 87.5° | 2.1 | 6.6 | 26.4 | 26.4 | 18.5 | 18.1 | 6.2 | 7.0 | 15.2 | 5.4 |
| 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° |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 815.1 | 0° | 815.1 | 815.1 | 815.1 | 815.1 | 815.1 | 815.1 | 815.1 | 815.1 | 815.1 | 815.1 |
| 818.8 | 2.5° | 816.8 | 817.2 | 811.8 | 802.7 | 792.9 | 784.6 | 774.3 | 766.1 | 760.3 | 758.7 |
| 826.2 | 5° | 822.5 | 819.6 | 804.4 | 776.8 | 743.8 | 715.4 | 683.7 | 658.5 | 642.0 | 635.0 |
| 834.1 | 7.5° | 831.2 | 822.9 | 789.6 | 735.2 | 672.1 | 616.1 | 559.2 | 515.1 | 487.1 | 473.1 |
| 841.5 | 10° | 838.6 | 822.1 | 764.8 | 675.0 | 578.6 | 493.7 | 417.0 | 363.9 | 334.2 | 320.2 |
| 850.1 | 12.5° | 845.6 | 821.7 | 732.7 | 603.7 | 473.1 | 369.2 | 297.9 | 271.6 | 263.3 | 260.4 |
| 864.1 | 15° | 858.8 | 822.9 | 692.3 | 522.1 | 368.0 | 279.0 | 253.0 | 252.6 | 254.3 | 253.4 |
| 885.6 | 17.5° | 876.9 | 824.2 | 646.6 | 435.6 | 283.9 | 246.0 | 244.8 | 248.5 | 251.0 | 249.7 |
| 912.4 | 20° | 900.4 | 829.1 | 597.9 | 349.9 | 244.0 | 237.8 | 240.7 | 244.0 | 246.0 | 244.0 |
| 948.2 | 22.5° | 933.4 | 837.8 | 544.8 | 281.0 | 231.2 | 232.8 | 235.3 | 239.0 | 241.1 | 238.2 |
| 994.0 | 25° | 973.8 | 851.4 | 492.4 | 244.4 | 225.0 | 227.1 | 230.8 | 234.9 | 237.4 | 234.5 |
| 1051.6 | 27.5° | 1026.1 | 873.2 | 444.2 | 236.1 | 218.8 | 220.1 | 225.4 | 231.6 | 234.9 | 231.2 |
| 1133.6 | 30° | 1101.9 | 909.1 | 402.6 | 239.8 | 215.1 | 212.2 | 219.6 | 228.3 | 232.0 | 228.7 |
| 1245.3 | 32.5° | 1202.5 | 959.7 | 377.1 | 245.6 | 213.5 | 203.2 | 210.2 | 221.3 | 227.5 | 225.4 |
| 1391.2 | 35° | 1334.3 | 1036.8 | 367.2 | 252.2 | 212.2 | 193.7 | 198.6 | 210.6 | 221.3 | 223.4 |
| 1575.0 | 37.5° | 1494.2 | 1144.0 | 370.1 | 255.1 | 208.5 | 185.9 | 188.3 | 198.6 | 212.6 | 219.2 |
| 1781.9 | 40° | 1676.0 | 1268.8 | 386.5 | 252.2 | 204.4 | 179.3 | 179.7 | 187.5 | 199.9 | 209.8 |
| 2004.4 | 42.5° | 1863.5 | 1414.7 | 417.0 | 241.5 | 200.7 | 173.5 | 172.3 | 177.6 | 185.9 | 192.9 |
| 2226.5 | 45° | 2041.9 | 1564.7 | 447.1 | 226.6 | 196.2 | 167.7 | 164.8 | 166.9 | 168.5 | 171.4 |
| 2442.8 | 47.5° | 2197.7 | 1670.2 | 438.5 | 213.0 | 190.0 | 161.1 | 156.2 | 155.4 | 150.4 | 150.0 |
| 2636.1 | 50° | 2305.2 | 1693.3 | 389.4 | 199.4 | 180.9 | 153.7 | 145.9 | 140.9 | 132.3 | 128.2 |
| 2780.8 | 52.5° | 2339.4 | 1602.2 | 318.1 | 185.9 | 166.1 | 143.8 | 132.7 | 124.9 | 114.1 | 110.4 |
| 2864.0 | 55° | 2294.1 | 1423.8 | 254.3 | 169.4 | 145.5 | 130.6 | 118.3 | 108.0 | 99.3 | 94.8 |
| 2873.1 | 57.5° | 2183.2 | 1196.7 | 201.1 | 150.0 | 123.6 | 115.8 | 103.4 | 93.1 | 85.7 | 81.2 |
| 2772.5 | 60° | 1999.4 | 950.3 | 159.1 | 126.9 | 105.5 | 99.7 | 87.0 | 80.4 | 73.8 | 68.4 |
| 2512.9 | 62.5° | 1720.5 | 678.3 | 124.9 | 100.5 | 88.2 | 81.6 | 74.2 | 69.2 | 61.4 | 54.0 |
| 2046.0 | 65° | 1342.6 | 415.0 | 96.4 | 73.8 | 70.9 | 67.6 | 63.0 | 58.5 | 49.0 | 41.6 |
| 1334.7 | 67.5° | 846.8 | 196.6 | 68.8 | 55.6 | 56.0 | 54.4 | 52.3 | 48.6 | 41.6 | 35.0 |
| 597.9 | 70° | 372.9 | 95.2 | 45.3 | 42.4 | 41.6 | 41.6 | 43.3 | 42.0 | 35.4 | 29.3 |
| 207.7 | 72.5° | 126.9 | 51.1 | 33.8 | 32.1 | 30.1 | 29.7 | 36.3 | 35.0 | 28.4 | 22.7 |
| 103.4 | 75° | 66.3 | 34.2 | 24.7 | 23.1 | 18.1 | 21.8 | 28.8 | 27.2 | 20.2 | 14.8 |
| 68.4 | 77.5° | 43.3 | 24.3 | 16.9 | 14.8 | 10.3 | 14.4 | 21.4 | 19.0 | 12.0 | 7.4 |
| 44.9 | 80° | 27.2 | 16.1 | 9.9 | 7.0 | 4.9 | 7.8 | 11.5 | 8.2 | 4.5 | 1.6 |
| 26.4 | 82.5° | 14.4 | 8.2 | 3.7 | 2.5 | 2.1 | 2.5 | 2.9 | 2.1 | 0.8 | 0.0 |
| 13.6 | 85° | 5.8 | 2.9 | 1.2 | 0.8 | 0.4 | 0.0 | 0.8 | 0.4 | 0.0 | 0.0 |
| 2.5 | 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

| <u>180°</u> |
|-------------|
| 815.1 |
| 761.5 |
| 637.5 |
| 475.1 |
| 320.6 |
| 259.6 |
| 253.0 |
| 249.3 |
| 243.5 |
| 237.8 |
| 234.1 |
| 231.2 |
| 228.3 |
| 225.4 |
| 223.4 |
| 220.9 |
| 213.0 |
| 195.7 |
| 173.1 |
| 149.6 |
| 128.6 |
| 110.0 |
| 94.8 |
| 80.4 |
| 67.2 |
| 52.7 |
| 40.4 |
| 34.2 |
| 28.0 |
| 21.4 |
| 13.6 |
| 6.6 |
| 1.2 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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