

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: P846332

Luminaire Tested: **GLAN-SB1D-930-U-SL4-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P846332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB1D-930-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4794 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

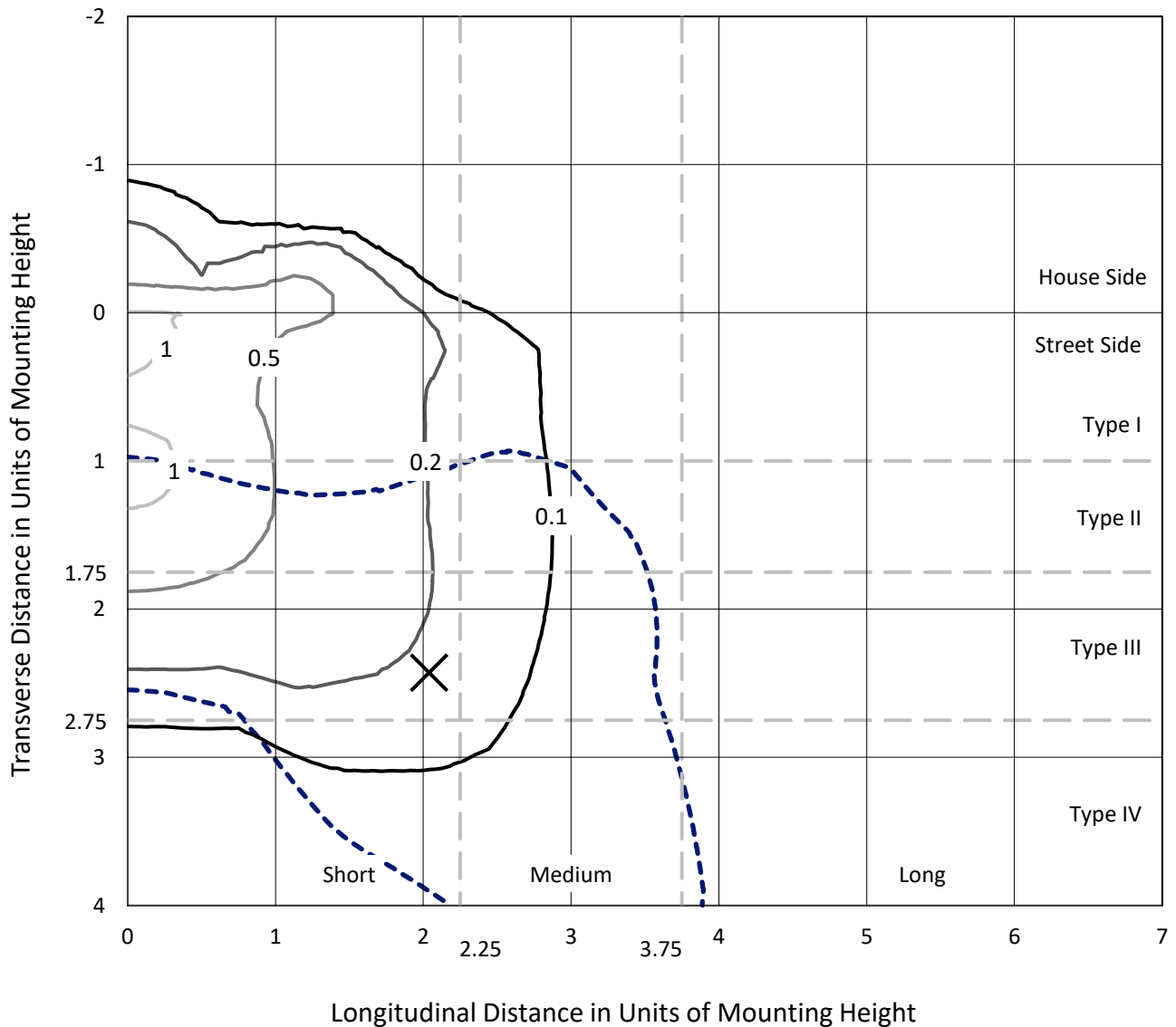
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

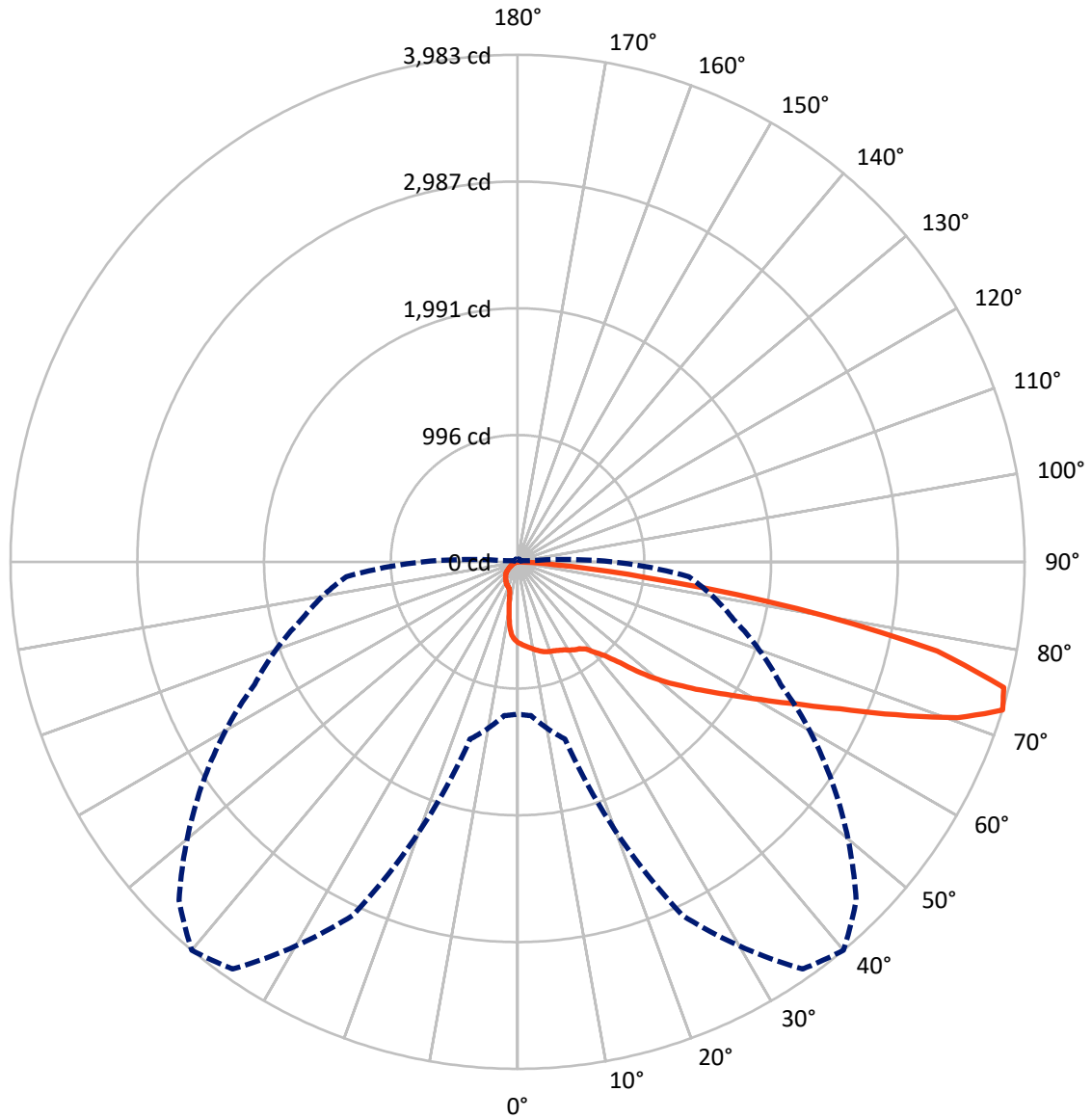
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 619.1 | 0.0 | 619.1 |
| | % Fixture | 12.9 | 0.0 | 12.9 |
| Street Side | Lumens | 4174.9 | 0.0 | 4174.9 |
| | % Fixture | 87.1 | 0.0 | 87.1 |
| Total | Lumens | 4794.0 | 0.0 | 4794.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.0 | 1.2 |
| 10°-20° | 157.4 | 3.3 |
| 20°-30° | 254.7 | 5.3 |
| 30°-40° | 376.1 | 7.8 |
| 40°-50° | 632.9 | 13.2 |
| 50°-60° | 982.8 | 20.5 |
| 60°-70° | 1229.8 | 25.7 |
| 70°-80° | 1006.8 | 21.0 |
| 80°-90° | 95.5 | 2.0 |
| 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° | 4794.0 | 100.0 |
| 0°-180° | 4794.0 | 100.0 |

Coefficient of Utilization



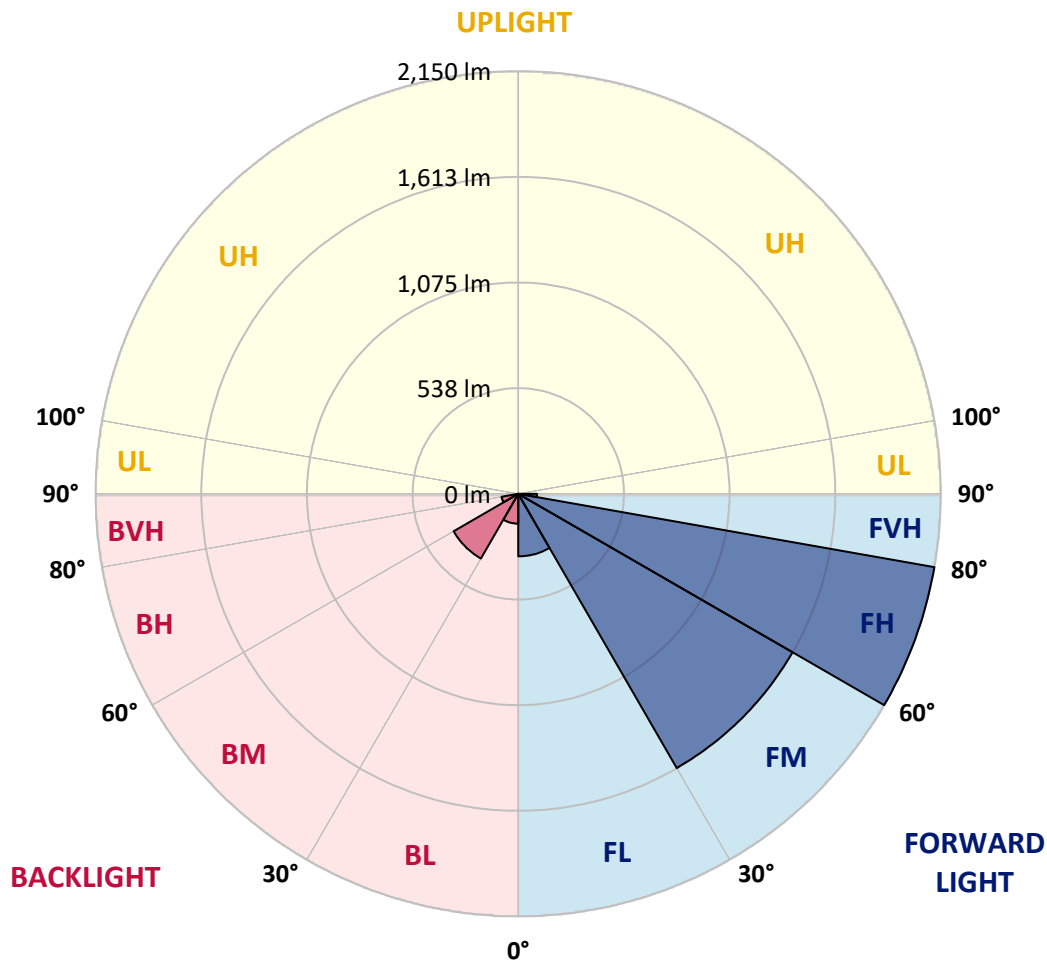
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 318.2 | 6.6 | | | |
| FM (30°-60°) | 1611.7 | 33.6 | | | |
| FH (60°-80°) | 2150.3 | 44.9 | | | G2/5000 |
| FVH (80°-90°) | 94.7 | 2.0 | | | G1/100 |
| BL (0°-30°) | 152.0 | 3.2 | B1/500 | | |
| BM (30°-60°) | 380.2 | 7.9 | B1/1000 | | |
| BH (60°-80°) | 86.2 | 1.8 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.7 | 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° | 35° | 40° | 45° | 55° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 634.8 | 634.8 | 634.8 | 634.8 | 634.8 | 634.8 | 634.8 | 634.8 | 634.8 | 634.8 |
| 2.5° | 653.9 | 656.4 | 655.0 | 652.1 | 651.4 | 649.9 | 648.1 | 647.4 | 644.9 | 642.7 |
| 5° | 672.3 | 674.8 | 673.0 | 669.1 | 667.3 | 665.5 | 662.9 | 660.8 | 655.7 | 651.0 |
| 7.5° | 692.5 | 694.7 | 692.5 | 686.8 | 683.9 | 681.7 | 678.1 | 674.8 | 669.1 | 662.2 |
| 10° | 714.9 | 716.7 | 713.5 | 705.9 | 701.2 | 698.0 | 694.7 | 691.1 | 685.7 | 678.1 |
| 12.5° | 735.9 | 738.0 | 733.0 | 723.9 | 718.5 | 715.3 | 711.7 | 708.8 | 703.4 | 696.1 |
| 15° | 755.0 | 758.3 | 749.6 | 739.8 | 733.7 | 731.2 | 727.6 | 725.8 | 722.1 | 717.1 |
| 17.5° | 769.4 | 771.6 | 762.6 | 751.0 | 744.2 | 742.4 | 739.8 | 740.9 | 740.2 | 737.7 |
| 20° | 781.7 | 783.2 | 771.2 | 757.2 | 749.6 | 749.9 | 749.2 | 752.8 | 754.3 | 754.3 |
| 22.5° | 796.9 | 797.2 | 782.1 | 764.4 | 755.4 | 757.9 | 759.0 | 762.9 | 765.8 | 768.7 |
| 25° | 816.7 | 816.0 | 798.0 | 773.8 | 765.8 | 769.4 | 772.0 | 773.4 | 776.7 | 781.4 |
| 27.5° | 846.4 | 844.2 | 821.1 | 788.9 | 779.6 | 782.8 | 787.5 | 786.8 | 785.3 | 788.9 |
| 30° | 883.9 | 881.0 | 850.3 | 810.2 | 801.6 | 804.5 | 805.9 | 799.4 | 788.9 | 792.2 |
| 32.5° | 943.5 | 938.4 | 895.8 | 834.1 | 820.7 | 824.0 | 822.2 | 808.8 | 793.3 | 796.5 |
| 35° | 1047.1 | 1034.8 | 974.5 | 883.9 | 842.4 | 838.8 | 834.4 | 821.4 | 802.3 | 799.1 |
| 37.5° | 1267.4 | 1245.7 | 1142.8 | 981.0 | 891.5 | 868.0 | 854.7 | 841.7 | 812.1 | 799.1 |
| 40° | 1515.8 | 1493.8 | 1375.0 | 1143.5 | 973.1 | 933.4 | 901.6 | 865.5 | 822.2 | 803.7 |
| 42.5° | 1775.0 | 1750.8 | 1628.8 | 1345.0 | 1089.7 | 1008.1 | 948.9 | 884.6 | 838.8 | 818.2 |
| 45° | 2064.6 | 2034.3 | 1874.7 | 1555.1 | 1259.1 | 1132.3 | 1025.1 | 924.0 | 867.7 | 843.8 |
| 47.5° | 2370.1 | 2330.7 | 2119.9 | 1759.1 | 1441.4 | 1304.2 | 1164.5 | 994.4 | 910.3 | 882.1 |
| 50° | 2640.9 | 2601.9 | 2373.0 | 1972.5 | 1611.8 | 1467.8 | 1323.3 | 1091.9 | 974.2 | 936.3 |
| 52.5° | 2835.5 | 2805.9 | 2603.3 | 2192.8 | 1789.1 | 1621.2 | 1467.4 | 1205.3 | 1055.1 | 1005.6 |
| 55° | 2965.8 | 2938.8 | 2766.5 | 2401.5 | 1995.3 | 1790.2 | 1609.3 | 1328.4 | 1152.5 | 1088.6 |
| 57.5° | 3044.9 | 3029.4 | 2884.6 | 2587.8 | 2199.7 | 1975.1 | 1771.8 | 1463.8 | 1267.4 | 1186.5 |
| 60° | 3073.1 | 3060.4 | 2957.9 | 2765.4 | 2446.6 | 2197.1 | 1962.8 | 1616.5 | 1406.7 | 1297.7 |
| 62.5° | 2998.0 | 3000.5 | 3010.6 | 2976.0 | 2707.0 | 2457.1 | 2191.7 | 1799.9 | 1561.3 | 1423.7 |
| 65° | 2644.5 | 2665.4 | 2857.5 | 3209.2 | 3051.8 | 2782.8 | 2483.1 | 2023.8 | 1738.2 | 1567.1 |
| 67.5° | 2189.5 | 2219.9 | 2458.9 | 3345.7 | 3419.4 | 3205.6 | 2888.9 | 2309.1 | 1949.1 | 1712.9 |
| 70° | 1676.1 | 1708.6 | 1998.2 | 3317.2 | 3763.5 | 3667.8 | 3390.8 | 2671.9 | 2167.5 | 1814.0 |
| 72.5° | 1196.2 | 1212.8 | 1441.0 | 3063.3 | 3904.6 | 3982.6 | 3760.6 | 3015.7 | 2279.1 | 1758.1 |
| 75° | 840.6 | 837.7 | 989.0 | 2466.8 | 3684.7 | 3944.3 | 3630.9 | 2829.7 | 2062.4 | 1396.6 |
| 77.5° | 366.1 | 366.8 | 493.9 | 1498.1 | 2940.9 | 3368.8 | 3018.2 | 1772.5 | 1437.8 | 740.2 |
| 80° | 95.0 | 97.9 | 181.3 | 596.5 | 1770.7 | 2223.5 | 1840.7 | 779.2 | 664.4 | 180.5 |
| 82.5° | 33.6 | 35.7 | 83.4 | 187.4 | 653.2 | 1019.7 | 819.6 | 249.1 | 173.3 | 51.6 |
| 85° | 9.7 | 11.6 | 44.8 | 57.4 | 135.0 | 288.1 | 199.0 | 48.4 | 42.6 | 26.7 |
| 87.5° | 0.0 | 1.4 | 9.0 | 7.9 | 7.9 | 5.4 | 10.1 | 5.4 | 6.9 | 3.2 |
| 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° |
|--------|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 634.8 | 0° | 634.8 | 634.8 | 634.8 | 634.8 | 634.8 | 634.8 | 634.8 | 634.8 | 634.8 | 634.8 |
| 640.2 | 2.5° | 638.0 | 635.5 | 630.1 | 624.3 | 618.9 | 613.8 | 612.4 | 607.0 | 604.4 | 604.8 |
| 645.2 | 5° | 641.3 | 636.6 | 626.1 | 613.5 | 600.5 | 585.7 | 573.4 | 556.1 | 541.2 | 539.4 |
| 655.0 | 7.5° | 649.9 | 642.3 | 625.4 | 600.8 | 568.3 | 527.5 | 489.6 | 452.1 | 430.8 | 419.2 |
| 669.4 | 10° | 663.3 | 653.2 | 627.2 | 580.2 | 511.3 | 438.3 | 380.9 | 333.6 | 309.4 | 298.2 |
| 687.1 | 12.5° | 679.2 | 668.0 | 630.1 | 545.2 | 437.6 | 341.9 | 279.8 | 250.9 | 245.9 | 245.2 |
| 708.8 | 15° | 701.6 | 689.3 | 633.3 | 497.9 | 357.8 | 260.3 | 231.8 | 232.2 | 236.1 | 238.3 |
| 732.3 | 17.5° | 726.5 | 714.2 | 628.6 | 440.1 | 279.1 | 222.4 | 221.7 | 224.9 | 230.7 | 232.9 |
| 753.9 | 20° | 751.8 | 740.2 | 612.0 | 372.3 | 225.7 | 211.9 | 214.8 | 218.4 | 224.2 | 227.1 |
| 775.2 | 22.5° | 777.7 | 767.6 | 585.7 | 300.1 | 203.6 | 204.4 | 208.0 | 211.6 | 218.1 | 221.3 |
| 796.2 | 25° | 805.6 | 796.9 | 550.6 | 240.5 | 194.3 | 196.4 | 201.1 | 205.4 | 212.3 | 216.3 |
| 813.9 | 27.5° | 833.7 | 827.2 | 510.9 | 200.8 | 185.6 | 188.1 | 193.5 | 199.3 | 206.2 | 210.9 |
| 829.4 | 30° | 864.4 | 860.8 | 479.1 | 186.0 | 177.3 | 179.5 | 185.6 | 192.1 | 199.7 | 205.4 |
| 844.9 | 32.5° | 895.8 | 895.1 | 463.6 | 196.8 | 169.7 | 171.1 | 176.6 | 183.1 | 192.5 | 199.7 |
| 857.9 | 35° | 926.9 | 928.3 | 454.6 | 227.5 | 167.2 | 163.2 | 166.8 | 172.6 | 183.8 | 192.8 |
| 872.7 | 37.5° | 966.6 | 970.2 | 454.2 | 260.7 | 173.3 | 155.3 | 157.8 | 161.8 | 171.5 | 182.0 |
| 895.8 | 40° | 1025.8 | 1044.9 | 477.3 | 289.2 | 184.1 | 148.0 | 148.8 | 149.5 | 154.5 | 163.2 |
| 926.5 | 42.5° | 1104.5 | 1160.5 | 560.7 | 308.7 | 188.5 | 141.5 | 139.0 | 135.0 | 134.3 | 139.0 |
| 968.4 | 45° | 1202.4 | 1300.2 | 707.3 | 319.5 | 184.1 | 134.3 | 127.5 | 117.0 | 113.0 | 116.3 |
| 1025.1 | 47.5° | 1317.6 | 1453.3 | 881.0 | 322.1 | 176.9 | 125.3 | 113.0 | 99.3 | 96.0 | 97.1 |
| 1101.3 | 50° | 1429.8 | 1568.1 | 1033.7 | 301.1 | 165.0 | 113.7 | 97.1 | 85.6 | 83.4 | 83.8 |
| 1191.2 | 52.5° | 1529.1 | 1607.5 | 1077.1 | 251.7 | 149.1 | 99.7 | 83.4 | 75.5 | 74.0 | 74.0 |
| 1290.5 | 55° | 1594.9 | 1564.9 | 960.5 | 192.5 | 129.3 | 85.2 | 71.5 | 67.5 | 66.8 | 66.4 |
| 1401.3 | 57.5° | 1608.6 | 1426.2 | 725.4 | 139.0 | 101.1 | 71.9 | 63.5 | 61.4 | 59.9 | 58.5 |
| 1515.1 | 60° | 1559.5 | 1195.1 | 461.8 | 97.1 | 75.8 | 61.4 | 56.3 | 54.9 | 52.0 | 49.1 |
| 1621.9 | 62.5° | 1453.3 | 902.7 | 255.6 | 67.5 | 61.0 | 52.4 | 49.8 | 48.0 | 42.6 | 37.9 |
| 1706.8 | 65° | 1310.7 | 600.1 | 113.0 | 52.7 | 49.8 | 44.1 | 42.6 | 40.1 | 33.6 | 28.2 |
| 1738.9 | 67.5° | 1167.3 | 345.5 | 50.9 | 42.2 | 40.1 | 36.1 | 35.0 | 33.2 | 28.5 | 23.5 |
| 1657.0 | 70° | 1003.8 | 175.1 | 35.0 | 33.6 | 31.1 | 27.4 | 28.5 | 28.2 | 23.5 | 19.1 |
| 1351.5 | 72.5° | 747.4 | 87.0 | 26.4 | 25.3 | 22.4 | 19.5 | 23.5 | 23.1 | 18.4 | 14.4 |
| 833.4 | 75° | 423.2 | 43.0 | 19.1 | 17.7 | 13.4 | 14.4 | 18.8 | 17.7 | 12.6 | 9.4 |
| 351.7 | 77.5° | 167.9 | 22.0 | 12.6 | 10.8 | 7.9 | 9.7 | 13.7 | 11.9 | 6.5 | 4.0 |
| 67.2 | 80° | 38.6 | 10.8 | 6.5 | 4.7 | 3.6 | 5.8 | 7.2 | 4.3 | 1.8 | 0.4 |
| 18.1 | 82.5° | 10.8 | 4.7 | 2.2 | 1.8 | 1.8 | 2.2 | 1.8 | 0.7 | 0.0 | 0.0 |
| 4.7 | 85° | 3.6 | 2.2 | 0.7 | 0.4 | 0.4 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 |
| 1.4 | 87.5° | 1.4 | 0.7 | 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> |
|-------------|
| 634.8 |
| 604.4 |
| 538.4 |
| 418.5 |
| 296.1 |
| 244.8 |
| 237.9 |
| 232.5 |
| 227.1 |
| 221.3 |
| 216.3 |
| 211.2 |
| 206.2 |
| 200.4 |
| 194.3 |
| 183.8 |
| 166.1 |
| 141.5 |
| 116.3 |
| 96.8 |
| 83.8 |
| 73.7 |
| 65.7 |
| 57.8 |
| 48.0 |
| 36.5 |
| 27.1 |
| 22.7 |
| 18.4 |
| 13.7 |
| 8.7 |
| 3.6 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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