

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: P845975

Luminaire Tested: **GLAN-SB1B-850-U-T2-HSS**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P845975  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB1B-850-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH  
HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3532 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

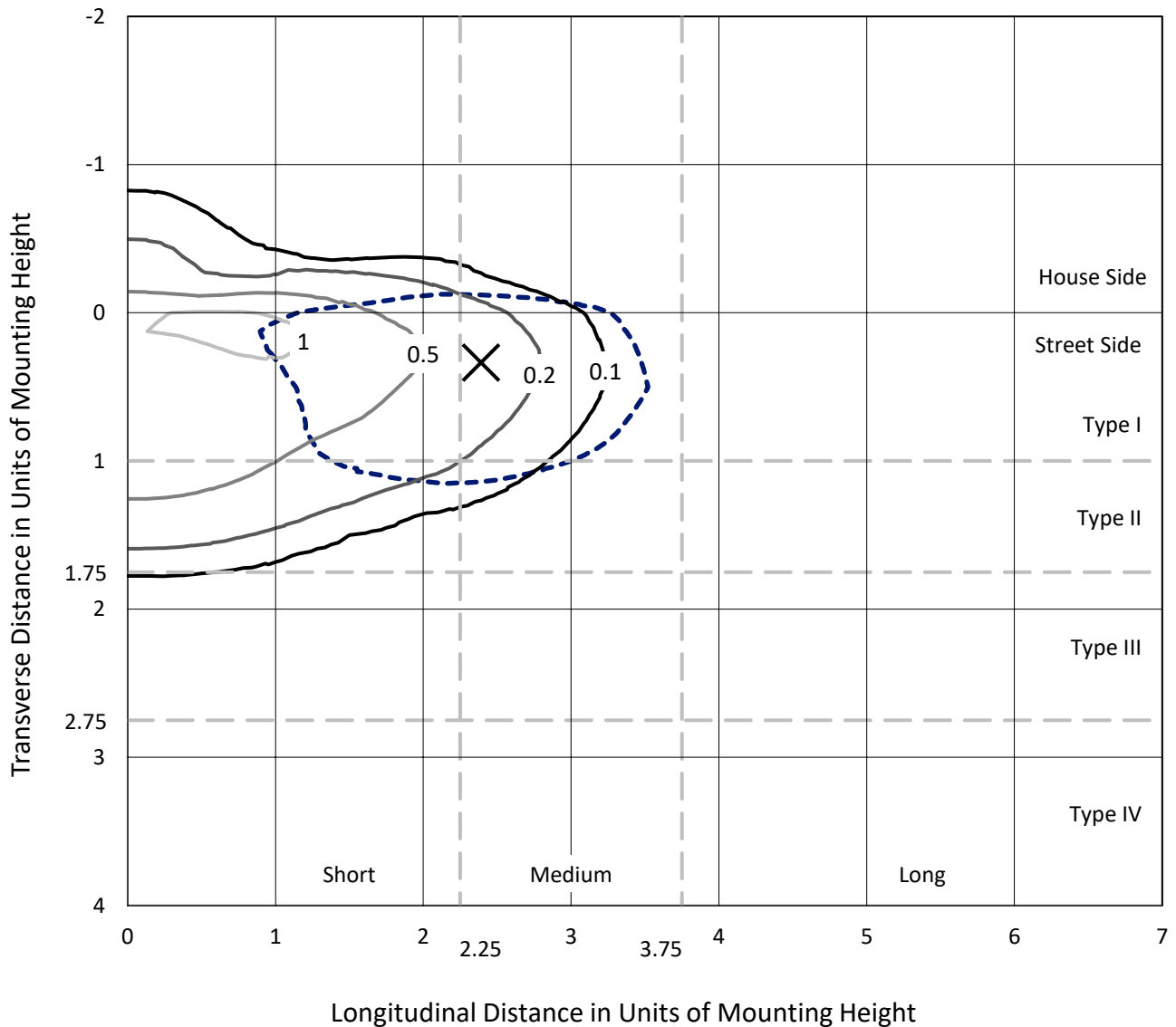
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

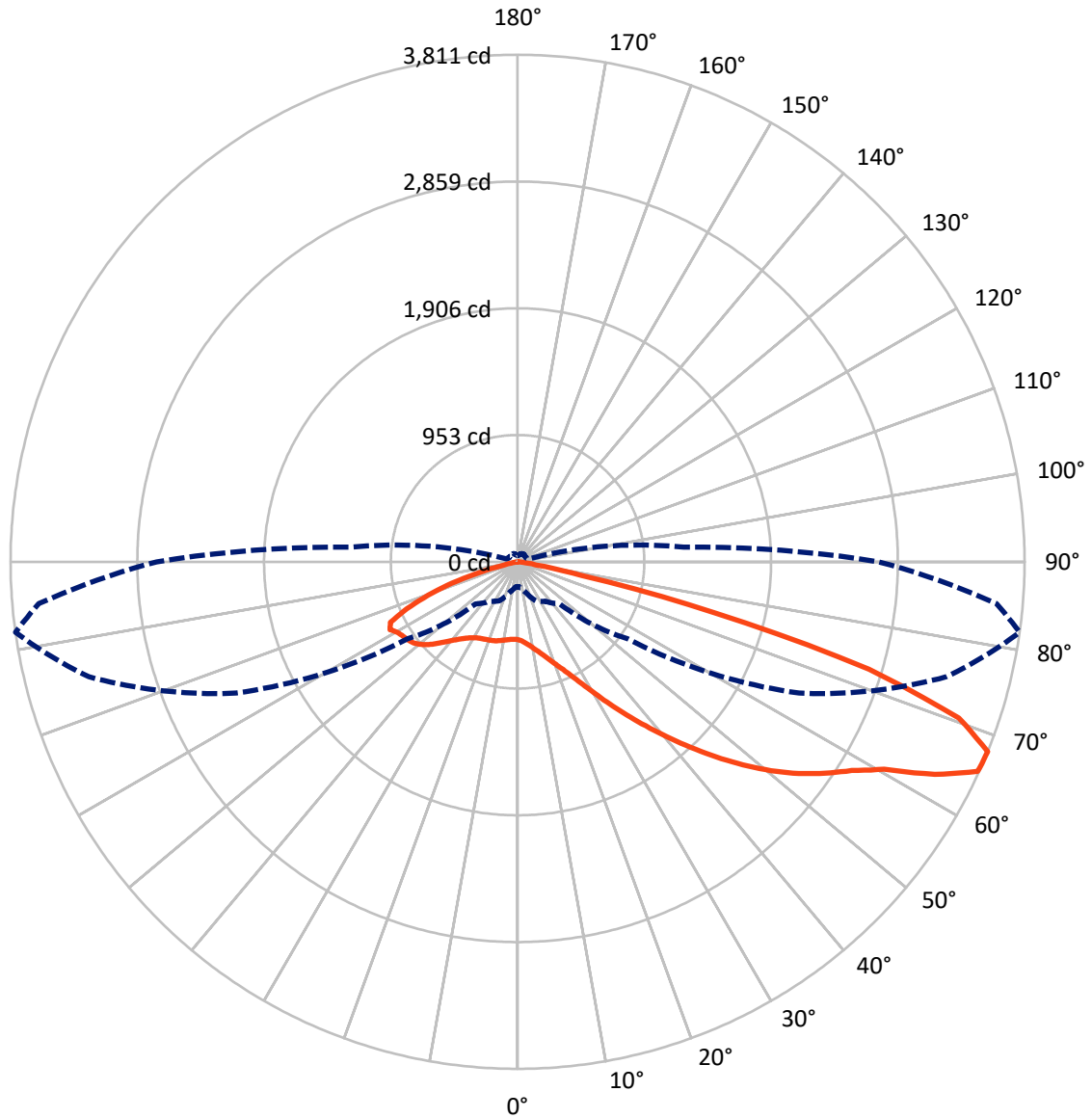
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 639.8    | 0.0    | 639.8  |
|                    | % Fixture | 18.1     | 0.0    | 18.1   |
| <b>Street Side</b> | Lumens    | 2892.2   | 0.0    | 2892.2 |
|                    | % Fixture | 81.9     | 0.0    | 81.9   |
| <b>Total</b>       | Lumens    | 3532.0   | 0.0    | 3532.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 52.1   | 1.5       |
| 10°-20°   | 135.5  | 3.8       |
| 20°-30°   | 217.0  | 6.1       |
| 30°-40°   | 383.7  | 10.9      |
| 40°-50°   | 672.2  | 19.0      |
| 50°-60°   | 896.6  | 25.4      |
| 60°-70°   | 834.7  | 23.6      |
| 70°-80°   | 320.3  | 9.1       |
| 80°-90°   | 19.9   | 0.6       |
| 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°    | 3532.0 | 100.0     |
| 0°-180°   | 3532.0 | 100.0     |

**Coefficient of Utilization**

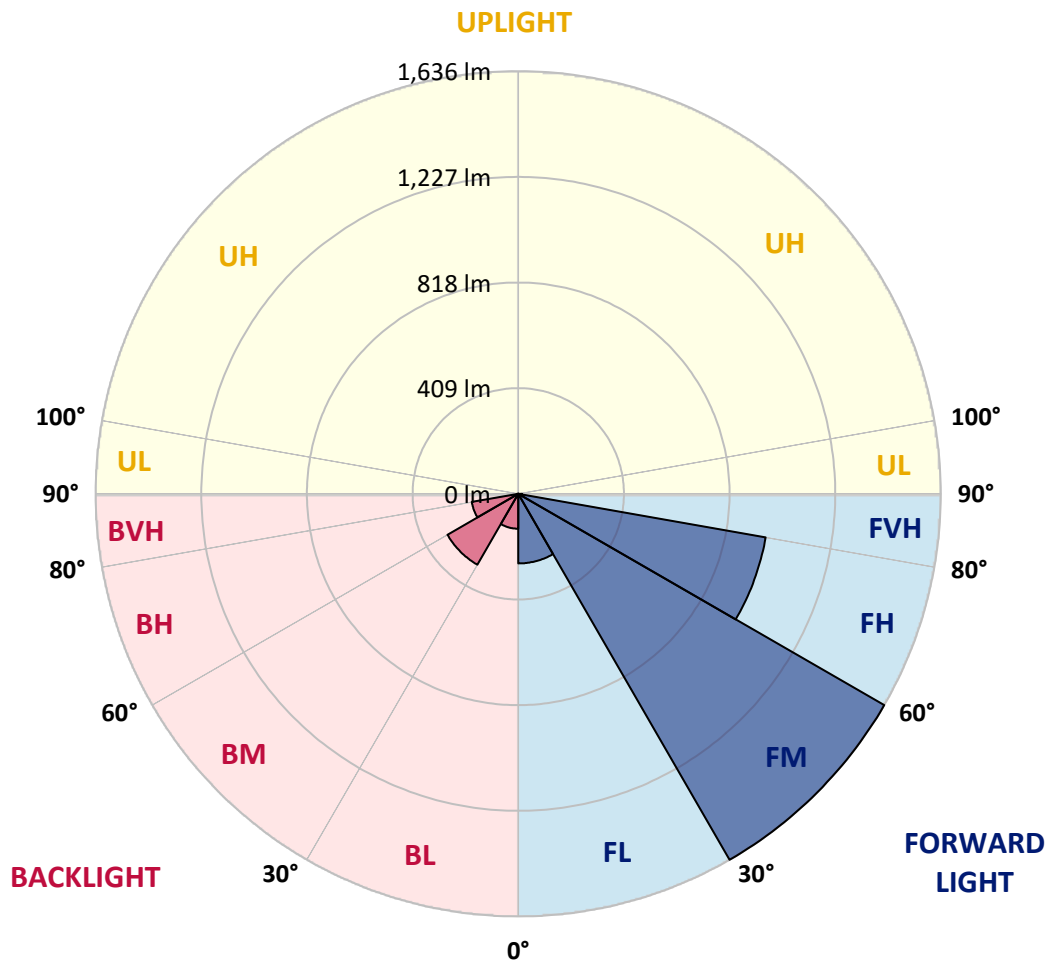


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 269.5  | 7.6       |                         |      |         |
| FM (30°-60°)   | 1635.9 | 46.3      |                         |      |         |
| FH (60°-80°)   | 972.4  | 27.5      |                         |      | G1/1800 |
| FVH (80°-90°)  | 14.5   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 135.1  | 3.8       | B1/500                  |      |         |
| BM (30°-60°)   | 316.6  | 9.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 182.6  | 5.2       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 5.4    | 0.2       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 82°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 585.1  | 585.1  | 585.1  | 585.1  | 585.1  | 585.1  | 585.1  | 585.1  | 585.1  | 585.1  |
| 2.5°  | 618.4  | 622.0  | 620.0  | 619.0  | 617.2  | 614.6  | 612.6  | 606.2  | 599.6  | 595.3  |
| 5°    | 630.9  | 634.5  | 634.2  | 635.2  | 636.5  | 637.3  | 636.8  | 629.6  | 620.2  | 612.9  |
| 7.5°  | 620.2  | 624.3  | 627.6  | 632.7  | 641.6  | 651.0  | 655.6  | 654.0  | 644.4  | 634.2  |
| 10°   | 590.0  | 594.3  | 602.2  | 614.1  | 632.9  | 653.3  | 670.3  | 678.2  | 672.1  | 660.9  |
| 12.5° | 534.5  | 538.9  | 554.4  | 580.3  | 611.8  | 647.2  | 679.7  | 700.8  | 702.4  | 691.2  |
| 15°   | 472.2  | 476.5  | 493.1  | 525.6  | 573.7  | 630.4  | 684.8  | 724.7  | 738.2  | 728.6  |
| 17.5° | 433.6  | 437.4  | 449.8  | 476.0  | 526.1  | 596.8  | 683.0  | 750.2  | 780.9  | 773.3  |
| 20°   | 421.9  | 425.2  | 431.0  | 449.3  | 491.0  | 562.0  | 671.3  | 774.1  | 827.0  | 822.6  |
| 22.5° | 434.3  | 437.4  | 439.2  | 447.3  | 473.5  | 539.1  | 656.6  | 798.5  | 880.4  | 880.9  |
| 25°   | 463.1  | 466.1  | 464.1  | 469.2  | 480.6  | 532.0  | 651.0  | 827.2  | 947.5  | 953.1  |
| 27.5° | 510.4  | 510.6  | 505.8  | 505.5  | 507.3  | 542.7  | 656.8  | 858.0  | 1032.2 | 1042.6 |
| 30°   | 605.2  | 601.4  | 582.8  | 562.8  | 553.6  | 574.7  | 673.1  | 894.4  | 1132.1 | 1150.7 |
| 32.5° | 751.4  | 745.8  | 711.8  | 663.7  | 615.4  | 626.3  | 702.4  | 935.8  | 1241.0 | 1274.5 |
| 35°   | 910.1  | 908.6  | 873.0  | 801.5  | 717.1  | 699.8  | 749.9  | 990.2  | 1359.7 | 1413.1 |
| 37.5° | 1057.6 | 1056.9 | 1036.5 | 952.3  | 849.6  | 802.3  | 826.2  | 1061.4 | 1486.9 | 1564.2 |
| 40°   | 1192.4 | 1194.7 | 1174.3 | 1099.1 | 995.6  | 933.8  | 930.0  | 1149.4 | 1628.3 | 1728.7 |
| 42.5° | 1308.9 | 1311.4 | 1290.8 | 1235.1 | 1139.8 | 1079.2 | 1057.4 | 1257.2 | 1766.3 | 1905.4 |
| 45°   | 1387.9 | 1403.7 | 1400.7 | 1356.2 | 1287.8 | 1224.9 | 1210.4 | 1392.5 | 1923.7 | 2092.8 |
| 47.5° | 1410.3 | 1424.8 | 1447.7 | 1453.8 | 1412.1 | 1350.3 | 1367.6 | 1555.5 | 2082.9 | 2280.5 |
| 50°   | 1355.1 | 1368.6 | 1416.2 | 1479.5 | 1508.5 | 1489.4 | 1520.4 | 1730.2 | 2245.9 | 2467.7 |
| 52.5° | 1246.3 | 1260.0 | 1320.0 | 1420.2 | 1538.5 | 1598.5 | 1673.8 | 1902.4 | 2403.9 | 2644.9 |
| 55°   | 1088.9 | 1103.4 | 1180.4 | 1293.9 | 1481.3 | 1643.5 | 1801.7 | 2074.3 | 2548.5 | 2804.4 |
| 57.5° | 874.8  | 885.5  | 965.6  | 1124.2 | 1337.3 | 1598.8 | 1896.0 | 2262.0 | 2684.8 | 2961.0 |
| 60°   | 570.1  | 579.5  | 672.6  | 849.6  | 1098.8 | 1449.2 | 1914.8 | 2471.2 | 2865.9 | 3164.7 |
| 62.5° | 379.2  | 385.5  | 440.7  | 570.6  | 773.8  | 1162.1 | 1804.7 | 2638.3 | 3131.4 | 3519.2 |
| 65°   | 260.1  | 266.5  | 321.7  | 412.2  | 499.9  | 768.7  | 1488.1 | 2616.2 | 3372.0 | 3800.7 |
| 67.5° | 185.6  | 191.0  | 237.8  | 323.2  | 361.9  | 446.5  | 1008.8 | 2333.4 | 3337.4 | 3811.4 |
| 70°   | 133.0  | 136.0  | 174.7  | 251.8  | 287.6  | 268.3  | 561.0  | 1784.6 | 2922.1 | 3519.4 |
| 72.5° | 93.1   | 94.1   | 121.3  | 191.7  | 231.7  | 195.8  | 267.0  | 1189.8 | 2210.1 | 2762.4 |
| 75°   | 63.1   | 64.3   | 81.6   | 140.6  | 185.9  | 149.5  | 141.4  | 638.0  | 1297.4 | 1529.1 |
| 77.5° | 38.7   | 39.2   | 52.6   | 96.1   | 139.1  | 113.9  | 91.0   | 270.3  | 502.0  | 492.8  |
| 80°   | 21.9   | 21.9   | 33.6   | 59.8   | 94.9   | 73.5   | 63.8   | 114.9  | 158.9  | 139.6  |
| 82.5° | 12.2   | 12.5   | 24.4   | 37.1   | 62.8   | 43.5   | 35.1   | 53.1   | 68.7   | 60.8   |
| 85°   | 5.1    | 5.6    | 15.0   | 17.5   | 30.0   | 21.6   | 14.2   | 22.4   | 25.4   | 22.6   |
| 87.5° | 0.5    | 0.8    | 4.6    | 3.3    | 3.6    | 4.3    | 2.0    | 4.3    | 3.6    | 3.6    |
| 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°  |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 585.1  | 0°    | 585.1  | 585.1  | 585.1 | 585.1 | 585.1 | 585.1 | 585.1 | 585.1 | 585.1 | 585.1 |
| 593.8  | 2.5°  | 588.9  | 585.1  | 575.5 | 564.3 | 549.5 | 542.4 | 532.7 | 526.1 | 520.5 | 521.1 |
| 608.5  | 5°    | 600.4  | 590.7  | 569.1 | 542.2 | 508.6 | 484.7 | 459.3 | 441.7 | 427.5 | 424.4 |
| 628.9  | 7.5°  | 616.2  | 600.9  | 563.0 | 514.4 | 457.7 | 414.8 | 376.4 | 351.7 | 334.1 | 328.5 |
| 653.5  | 10°   | 636.5  | 614.4  | 555.1 | 479.6 | 398.0 | 343.3 | 302.1 | 282.8 | 270.8 | 266.8 |
| 682.5  | 12.5° | 660.1  | 629.9  | 544.7 | 437.1 | 336.4 | 283.8 | 257.6 | 247.9 | 244.1 | 242.9 |
| 718.1  | 15°   | 689.9  | 649.2  | 528.9 | 386.8 | 284.3 | 247.4 | 236.2 | 235.0 | 235.5 | 235.0 |
| 760.9  | 17.5° | 725.2  | 670.3  | 503.2 | 334.9 | 249.2 | 228.9 | 224.8 | 225.8 | 227.1 | 226.8 |
| 808.7  | 20°   | 763.9  | 691.2  | 470.4 | 288.9 | 225.3 | 215.6 | 213.4 | 214.4 | 215.4 | 214.9 |
| 863.8  | 22.5° | 807.9  | 713.6  | 434.1 | 253.0 | 209.3 | 203.4 | 200.9 | 201.1 | 201.1 | 200.1 |
| 933.8  | 25°   | 860.5  | 738.2  | 395.9 | 227.6 | 197.1 | 192.5 | 189.4 | 188.4 | 186.9 | 183.9 |
| 1018.7 | 27.5° | 923.3  | 764.4  | 359.3 | 209.8 | 187.4 | 183.1 | 179.5 | 177.0 | 173.2 | 168.1 |
| 1120.7 | 30°   | 994.0  | 796.2  | 328.3 | 198.6 | 179.8 | 175.5 | 171.4 | 167.6 | 162.0 | 155.6 |
| 1237.9 | 32.5° | 1077.2 | 830.3  | 305.7 | 191.2 | 172.9 | 168.3 | 163.5 | 158.9 | 152.8 | 146.5 |
| 1369.6 | 35°   | 1176.4 | 871.5  | 292.4 | 186.1 | 167.6 | 161.5 | 156.1 | 151.1 | 146.5 | 140.9 |
| 1512.8 | 37.5° | 1283.9 | 915.2  | 288.4 | 183.6 | 164.0 | 154.6 | 148.5 | 144.9 | 144.4 | 141.1 |
| 1667.7 | 40°   | 1401.7 | 967.1  | 291.4 | 182.1 | 160.2 | 148.0 | 141.4 | 140.6 | 141.9 | 136.0 |
| 1833.2 | 42.5° | 1526.3 | 1028.6 | 296.5 | 180.3 | 154.9 | 141.4 | 135.0 | 135.0 | 134.0 | 125.9 |
| 2008.2 | 45°   | 1661.1 | 1099.6 | 301.6 | 176.0 | 148.5 | 134.8 | 129.9 | 128.2 | 123.8 | 116.0 |
| 2184.1 | 47.5° | 1796.8 | 1171.8 | 305.4 | 168.1 | 140.9 | 129.2 | 124.9 | 120.8 | 114.4 | 107.3 |
| 2356.8 | 50°   | 1925.8 | 1236.6 | 301.3 | 156.4 | 132.2 | 123.8 | 119.3 | 113.7 | 106.8 | 102.0 |
| 2520.3 | 52.5° | 2041.0 | 1292.8 | 284.0 | 142.7 | 123.1 | 118.2 | 114.2 | 108.3 | 102.7 | 97.6  |
| 2667.8 | 55°   | 2141.2 | 1338.4 | 253.5 | 129.7 | 114.9 | 113.4 | 109.3 | 102.0 | 94.3  | 90.0  |
| 2814.0 | 57.5° | 2237.3 | 1372.9 | 215.4 | 119.0 | 107.6 | 108.1 | 102.0 | 95.4  | 88.2  | 83.7  |
| 3011.1 | 60°   | 2365.2 | 1419.2 | 176.7 | 109.1 | 99.7  | 101.2 | 94.6  | 89.8  | 80.9  | 75.0  |
| 3349.1 | 62.5° | 2569.7 | 1491.2 | 140.4 | 96.9  | 90.5  | 91.0  | 88.2  | 82.4  | 71.7  | 64.8  |
| 3599.5 | 65°   | 2731.9 | 1464.7 | 110.6 | 83.7  | 80.1  | 80.9  | 80.9  | 74.5  | 63.1  | 55.2  |
| 3613.0 | 67.5° | 2713.6 | 1254.2 | 88.2  | 70.7  | 70.2  | 70.7  | 72.5  | 67.1  | 55.9  | 49.6  |
| 3337.9 | 70°   | 2499.7 | 997.6  | 70.7  | 58.7  | 61.0  | 59.8  | 64.8  | 61.3  | 50.4  | 44.0  |
| 2587.7 | 72.5° | 2039.7 | 718.6  | 53.9  | 48.6  | 46.8  | 48.8  | 58.5  | 55.2  | 42.0  | 34.8  |
| 1370.7 | 75°   | 1191.9 | 383.5  | 40.2  | 38.4  | 33.8  | 40.7  | 51.9  | 47.0  | 32.0  | 25.7  |
| 420.1  | 77.5° | 388.1  | 133.8  | 29.5  | 28.2  | 25.2  | 32.8  | 44.2  | 39.7  | 26.2  | 20.3  |
| 123.1  | 80°   | 104.0  | 40.4   | 20.1  | 18.6  | 16.3  | 24.4  | 35.1  | 31.5  | 18.8  | 13.2  |
| 52.9   | 82.5° | 41.7   | 17.0   | 11.7  | 10.4  | 8.9   | 16.8  | 27.7  | 25.4  | 14.0  | 8.4   |
| 16.5   | 85°   | 13.5   | 5.6    | 4.3   | 3.3   | 4.1   | 10.4  | 16.5  | 17.3  | 9.9   | 4.3   |
| 2.5    | 87.5° | 1.8    | 0.8    | 0.8   | 1.0   | 0.8   | 1.8   | 5.1   | 4.8   | 2.8   | 0.5   |
| 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> |
|-------------|
| 585.1       |
| 516.0       |
| 417.6       |
| 323.0       |
| 263.7       |
| 242.1       |
| 234.7       |
| 226.3       |
| 214.6       |
| 199.6       |
| 183.3       |
| 167.6       |
| 155.1       |
| 146.7       |
| 140.4       |
| 140.9       |
| 136.3       |
| 125.9       |
| 115.7       |
| 107.1       |
| 101.2       |
| 97.1        |
| 89.5        |
| 83.2        |
| 74.3        |
| 64.3        |
| 54.4        |
| 48.6        |
| 43.2        |
| 34.1        |
| 24.9        |
| 19.6        |
| 13.0        |
| 8.4         |
| 3.3         |
| 0.0         |
| 0.0         |

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