

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: P846107

Luminaire Tested: **GLAN-SB1C-827-U-T3-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P846107
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB1C-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4685 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

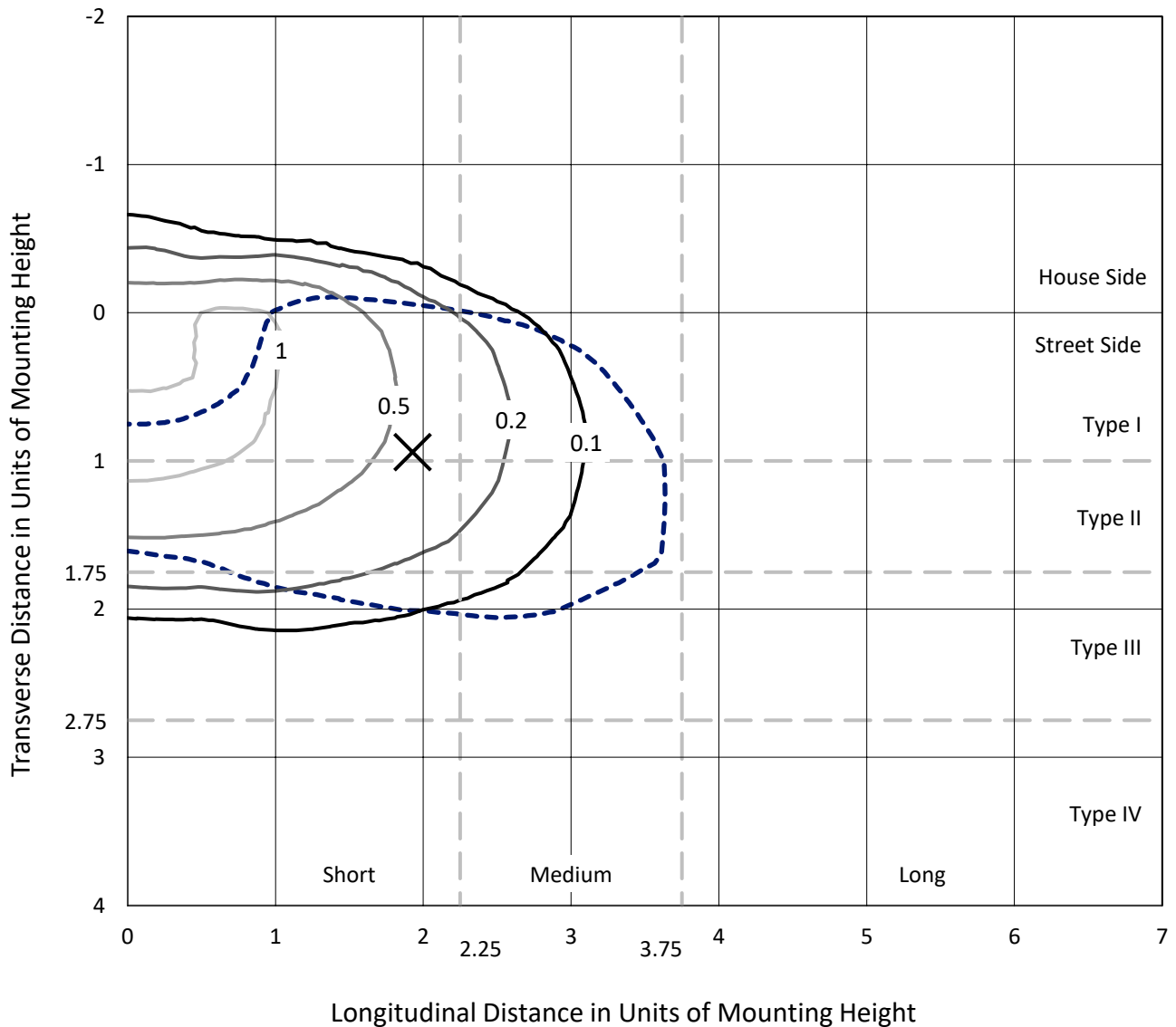
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

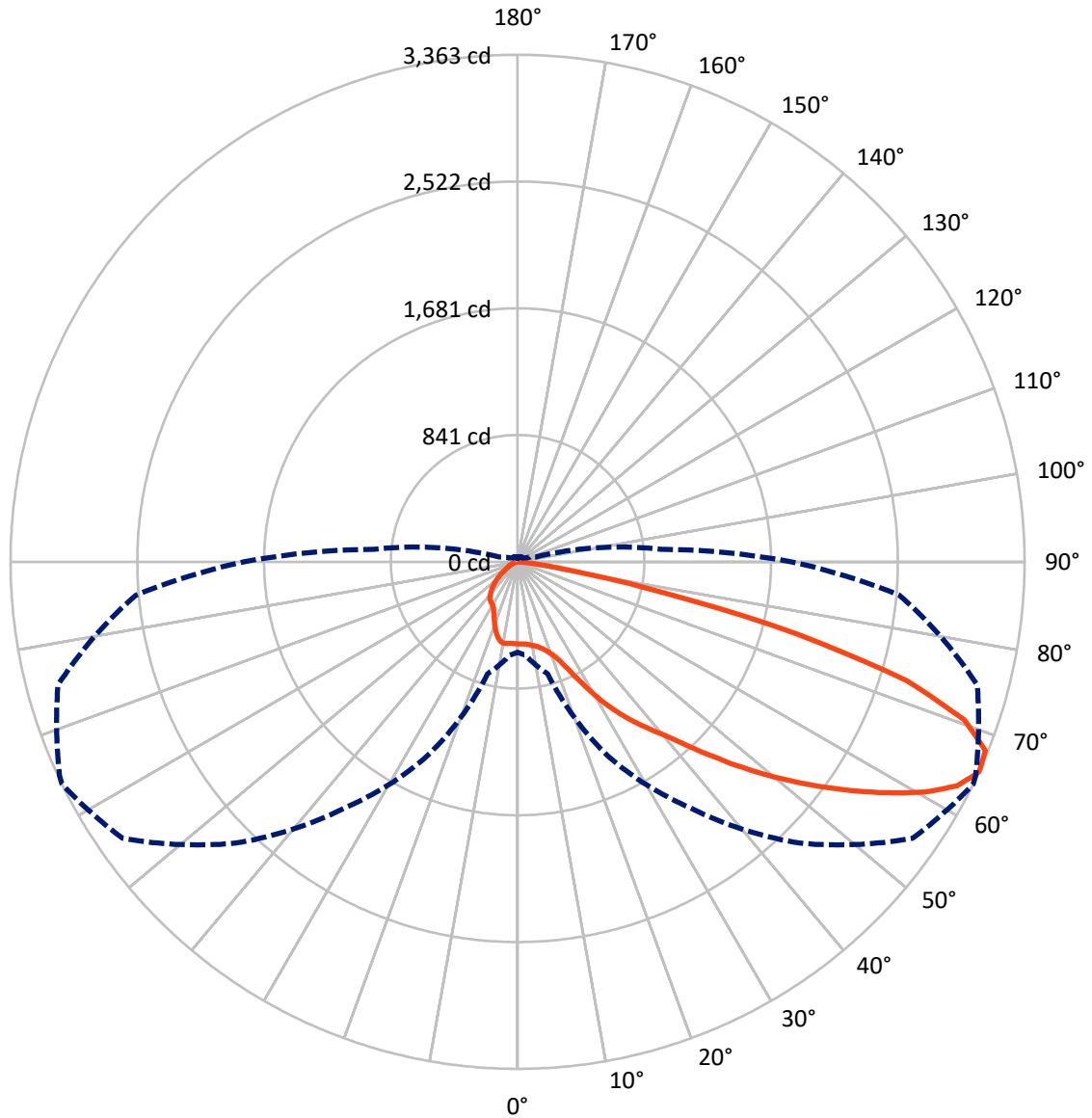
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 626.5 | 0.0 | 626.5 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 4058.5 | 0.0 | 4058.5 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 4685.0 | 0.0 | 4685.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 50.3 | 1.1 |
| 10°-20° | 136.4 | 2.9 |
| 20°-30° | 258.4 | 5.5 |
| 30°-40° | 522.8 | 11.2 |
| 40°-50° | 890.7 | 19.0 |
| 50°-60° | 1211.3 | 25.9 |
| 60°-70° | 1137.4 | 24.3 |
| 70°-80° | 455.7 | 9.7 |
| 80°-90° | 22.1 | 0.5 |
| 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° | 4685.0 | 100.0 |
| 0°-180° | 4685.0 | 100.0 |

Coefficient of Utilization



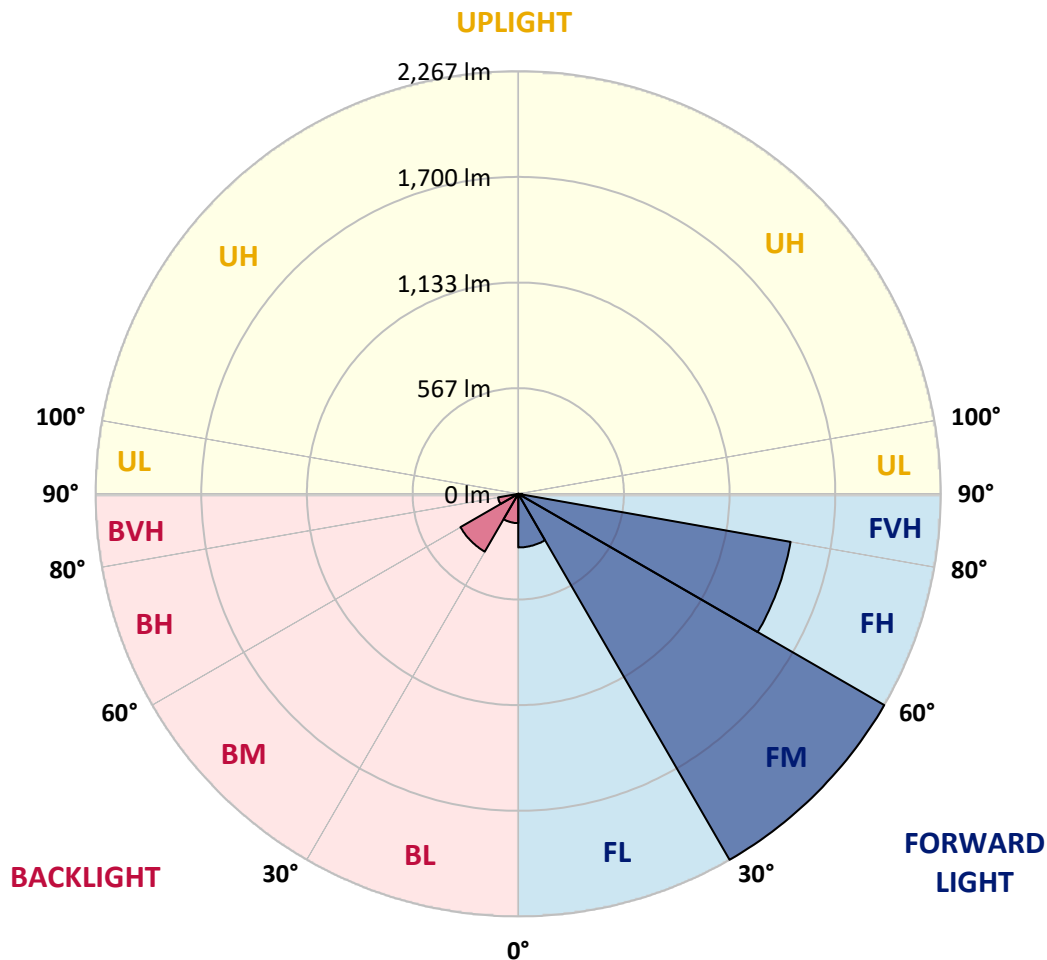
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 287.7 | 6.1 | | | |
| FM (30°-60°) | 2266.6 | 48.4 | | | |
| FH (60°-80°) | 1483.2 | 31.7 | | | G1/1800 |
| FVH (80°-90°) | 21.0 | 0.4 | | | G1/100 |
| BL (0°-30°) | 157.3 | 3.4 | B1/500 | | |
| BM (30°-60°) | 358.2 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 110.0 | 2.3 | 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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 544.9 | 544.9 | 544.9 | 544.9 | 544.9 | 544.9 | 544.9 | 544.9 | 544.9 | 544.9 |
| 2.5° | 543.0 | 546.8 | 545.9 | 544.9 | 544.6 | 545.2 | 545.5 | 545.2 | 545.2 | 545.2 |
| 5° | 532.7 | 535.8 | 535.8 | 538.0 | 541.1 | 544.9 | 547.7 | 548.4 | 549.0 | 549.9 |
| 7.5° | 512.9 | 515.4 | 517.3 | 524.5 | 532.4 | 542.4 | 550.9 | 555.3 | 555.9 | 559.4 |
| 10° | 499.4 | 502.5 | 505.7 | 513.2 | 524.5 | 539.6 | 554.0 | 564.7 | 566.3 | 574.4 |
| 12.5° | 498.7 | 501.9 | 506.0 | 514.1 | 527.3 | 543.3 | 560.9 | 576.3 | 579.1 | 591.1 |
| 15° | 505.3 | 509.1 | 512.9 | 522.9 | 537.1 | 556.5 | 575.4 | 594.5 | 597.4 | 614.3 |
| 17.5° | 518.8 | 523.9 | 526.7 | 536.7 | 551.8 | 573.5 | 598.3 | 620.3 | 622.8 | 642.6 |
| 20° | 545.5 | 551.5 | 552.5 | 560.6 | 575.4 | 598.6 | 628.1 | 655.5 | 658.6 | 681.2 |
| 22.5° | 600.8 | 609.3 | 601.8 | 605.8 | 619.0 | 642.3 | 674.3 | 708.9 | 713.3 | 739.0 |
| 25° | 698.2 | 710.1 | 690.6 | 683.7 | 689.4 | 713.6 | 753.8 | 797.4 | 802.5 | 823.2 |
| 27.5° | 889.5 | 874.1 | 844.5 | 815.6 | 798.7 | 812.5 | 857.7 | 911.7 | 918.0 | 938.1 |
| 30° | 1099.6 | 1086.1 | 1046.2 | 982.1 | 941.9 | 939.7 | 981.5 | 1041.8 | 1049.0 | 1068.2 |
| 32.5° | 1310.0 | 1297.1 | 1253.8 | 1174.9 | 1105.2 | 1070.7 | 1099.6 | 1166.5 | 1170.2 | 1182.5 |
| 35° | 1517.0 | 1503.8 | 1460.4 | 1379.7 | 1294.0 | 1215.5 | 1209.8 | 1285.2 | 1286.4 | 1299.3 |
| 37.5° | 1725.2 | 1714.2 | 1668.0 | 1588.9 | 1504.4 | 1396.0 | 1343.6 | 1397.6 | 1399.2 | 1411.8 |
| 40° | 1873.8 | 1878.5 | 1846.7 | 1785.5 | 1712.9 | 1594.5 | 1493.7 | 1517.3 | 1507.9 | 1528.9 |
| 42.5° | 2001.3 | 2010.7 | 1983.0 | 1952.3 | 1910.2 | 1805.9 | 1679.7 | 1675.6 | 1660.5 | 1671.8 |
| 45° | 2111.5 | 2119.4 | 2094.5 | 2087.3 | 2086.4 | 2013.2 | 1882.9 | 1858.4 | 1837.3 | 1835.1 |
| 47.5° | 2152.0 | 2167.1 | 2177.8 | 2202.0 | 2249.1 | 2218.3 | 2093.0 | 2055.0 | 2031.4 | 2014.1 |
| 50° | 2167.4 | 2183.4 | 2219.9 | 2290.2 | 2401.7 | 2414.9 | 2302.1 | 2259.4 | 2230.5 | 2199.1 |
| 52.5° | 2146.7 | 2175.3 | 2224.3 | 2342.7 | 2504.4 | 2572.6 | 2502.8 | 2465.5 | 2432.5 | 2381.3 |
| 55° | 2024.5 | 2053.1 | 2153.3 | 2342.0 | 2555.6 | 2683.1 | 2692.5 | 2675.9 | 2638.8 | 2558.1 |
| 57.5° | 1767.0 | 1809.4 | 1968.0 | 2262.3 | 2554.7 | 2778.3 | 2878.5 | 2890.4 | 2848.9 | 2733.4 |
| 60° | 1410.2 | 1467.7 | 1661.1 | 2085.4 | 2475.8 | 2829.8 | 3041.5 | 3101.1 | 3057.2 | 2906.1 |
| 62.5° | 984.0 | 1050.6 | 1233.7 | 1808.4 | 2295.5 | 2792.7 | 3160.5 | 3270.7 | 3237.4 | 3060.6 |
| 65° | 600.2 | 621.5 | 769.2 | 1423.1 | 1989.0 | 2637.6 | 3197.2 | 3362.5 | 3351.5 | 3155.2 |
| 67.5° | 399.8 | 417.7 | 460.1 | 975.8 | 1544.0 | 2327.6 | 3109.3 | 3346.4 | 3349.6 | 3139.8 |
| 70° | 240.9 | 256.3 | 283.9 | 567.5 | 1000.6 | 1842.3 | 2837.0 | 3142.3 | 3160.5 | 2934.1 |
| 72.5° | 99.2 | 109.6 | 134.7 | 257.2 | 518.2 | 1169.3 | 2259.1 | 2697.9 | 2740.3 | 2467.0 |
| 75° | 56.2 | 61.6 | 79.1 | 129.1 | 224.9 | 544.9 | 1368.4 | 1915.2 | 1977.7 | 1700.4 |
| 77.5° | 37.4 | 39.9 | 51.2 | 83.5 | 126.6 | 185.9 | 584.8 | 997.8 | 1117.2 | 928.7 |
| 80° | 25.1 | 27.3 | 35.2 | 55.9 | 82.3 | 79.8 | 186.2 | 369.7 | 454.8 | 319.1 |
| 82.5° | 17.0 | 17.3 | 25.1 | 36.7 | 52.1 | 38.6 | 55.0 | 115.0 | 144.5 | 92.3 |
| 85° | 9.7 | 9.4 | 18.5 | 21.4 | 23.2 | 16.0 | 16.6 | 34.5 | 45.2 | 38.9 |
| 87.5° | 1.3 | 1.9 | 7.2 | 5.7 | 3.1 | 3.5 | 3.5 | 6.0 | 8.8 | 9.4 |
| 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° |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 544.9 | 0° | 544.9 | 544.9 | 544.9 | 544.9 | 544.9 | 544.9 | 544.9 | 544.9 | 544.9 | 544.9 |
| 545.5 | 2.5° | 545.5 | 545.2 | 544.3 | 543.3 | 541.1 | 539.9 | 540.5 | 539.9 | 539.6 | 539.9 |
| 549.6 | 5° | 549.6 | 548.7 | 546.2 | 543.0 | 538.6 | 533.3 | 529.8 | 524.8 | 520.1 | 517.3 |
| 560.6 | 7.5° | 560.6 | 559.7 | 556.2 | 547.4 | 533.3 | 511.0 | 490.6 | 472.7 | 459.2 | 451.3 |
| 578.2 | 10° | 578.2 | 576.6 | 571.3 | 551.8 | 514.8 | 466.1 | 425.6 | 392.0 | 370.0 | 359.6 |
| 598.9 | 12.5° | 598.9 | 597.1 | 587.6 | 547.7 | 479.6 | 403.6 | 347.7 | 310.3 | 289.9 | 280.8 |
| 622.8 | 15° | 623.4 | 620.9 | 602.4 | 528.3 | 428.4 | 334.5 | 283.3 | 255.3 | 242.1 | 234.0 |
| 653.3 | 17.5° | 653.9 | 649.5 | 613.4 | 499.1 | 372.8 | 281.7 | 243.7 | 222.7 | 211.1 | 203.2 |
| 693.2 | 20° | 693.5 | 686.2 | 622.2 | 464.2 | 321.6 | 248.4 | 217.0 | 199.4 | 190.6 | 183.7 |
| 749.7 | 22.5° | 748.7 | 738.4 | 632.9 | 426.5 | 285.5 | 225.5 | 197.2 | 184.4 | 177.1 | 169.3 |
| 828.5 | 25° | 817.2 | 805.0 | 646.0 | 391.6 | 260.7 | 205.7 | 182.8 | 172.1 | 163.6 | 154.5 |
| 931.9 | 27.5° | 913.0 | 891.0 | 661.7 | 363.1 | 239.3 | 188.8 | 169.6 | 157.7 | 147.9 | 140.4 |
| 1049.0 | 30° | 1019.8 | 983.7 | 675.6 | 345.8 | 219.9 | 173.1 | 152.3 | 140.4 | 131.3 | 125.9 |
| 1154.2 | 32.5° | 1120.9 | 1071.9 | 684.7 | 338.3 | 202.3 | 155.2 | 133.5 | 120.6 | 113.7 | 112.1 |
| 1257.2 | 35° | 1216.4 | 1151.7 | 683.7 | 331.0 | 186.6 | 137.2 | 115.0 | 101.8 | 96.4 | 97.4 |
| 1368.1 | 37.5° | 1326.3 | 1236.8 | 677.1 | 319.7 | 173.7 | 120.9 | 98.9 | 87.3 | 82.6 | 82.9 |
| 1502.8 | 40° | 1454.2 | 1335.1 | 673.1 | 298.4 | 159.5 | 105.8 | 85.7 | 76.3 | 72.9 | 71.6 |
| 1644.8 | 42.5° | 1590.5 | 1430.3 | 673.7 | 274.2 | 142.0 | 92.3 | 76.6 | 68.8 | 65.6 | 64.7 |
| 1802.8 | 45° | 1727.4 | 1521.0 | 674.6 | 249.1 | 123.4 | 82.0 | 70.0 | 63.4 | 61.6 | 60.3 |
| 1962.9 | 47.5° | 1856.2 | 1598.3 | 657.0 | 222.0 | 105.2 | 74.1 | 64.7 | 60.3 | 58.7 | 57.2 |
| 2123.8 | 50° | 1976.1 | 1649.8 | 614.6 | 190.6 | 90.8 | 67.8 | 60.6 | 57.5 | 55.9 | 54.3 |
| 2269.5 | 52.5° | 2069.4 | 1658.0 | 544.6 | 158.3 | 80.7 | 63.1 | 58.1 | 55.3 | 53.4 | 51.8 |
| 2387.3 | 55° | 2110.9 | 1606.8 | 445.0 | 128.1 | 72.9 | 59.0 | 55.6 | 52.8 | 50.6 | 49.0 |
| 2479.9 | 57.5° | 2100.2 | 1499.1 | 347.0 | 103.0 | 65.3 | 55.0 | 52.4 | 50.6 | 48.1 | 45.5 |
| 2555.0 | 60° | 2047.7 | 1354.9 | 261.6 | 85.7 | 58.4 | 50.6 | 49.0 | 47.4 | 44.0 | 40.2 |
| 2583.9 | 62.5° | 1957.0 | 1173.7 | 186.6 | 71.0 | 50.9 | 45.5 | 44.9 | 43.7 | 38.6 | 31.7 |
| 2541.2 | 65° | 1818.2 | 953.5 | 125.6 | 59.0 | 43.7 | 39.9 | 40.2 | 38.0 | 31.4 | 23.6 |
| 2384.7 | 67.5° | 1615.3 | 697.2 | 80.4 | 48.4 | 36.4 | 33.3 | 33.6 | 32.3 | 26.7 | 20.1 |
| 2088.3 | 70° | 1356.8 | 461.7 | 52.4 | 36.7 | 29.2 | 25.8 | 27.6 | 28.0 | 22.6 | 16.3 |
| 1602.7 | 72.5° | 994.7 | 272.6 | 36.7 | 27.3 | 21.4 | 17.9 | 22.6 | 23.2 | 18.2 | 12.2 |
| 964.2 | 75° | 566.9 | 129.4 | 27.6 | 19.8 | 13.2 | 12.6 | 17.6 | 17.6 | 12.6 | 8.2 |
| 417.4 | 77.5° | 238.1 | 54.0 | 19.5 | 12.9 | 7.5 | 7.2 | 11.9 | 11.0 | 6.3 | 3.8 |
| 101.8 | 80° | 68.8 | 24.2 | 10.4 | 6.3 | 3.1 | 2.8 | 4.7 | 3.5 | 1.6 | 0.6 |
| 38.6 | 82.5° | 27.0 | 10.7 | 4.1 | 2.5 | 1.3 | 1.3 | 0.6 | 0.0 | 0.0 | 0.0 |
| 22.0 | 85° | 16.0 | 4.4 | 1.9 | 0.9 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4.7 | 87.5° | 4.1 | 0.9 | 0.6 | 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 |

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|-------|
| 180° |
| 544.9 |
| 541.1 |
| 517.9 |
| 451.6 |
| 358.7 |
| 279.8 |
| 234.3 |
| 202.6 |
| 182.5 |
| 168.0 |
| 153.6 |
| 138.8 |
| 125.0 |
| 113.1 |
| 97.4 |
| 84.2 |
| 71.3 |
| 64.4 |
| 60.3 |
| 57.2 |
| 54.3 |
| 51.5 |
| 48.7 |
| 45.2 |
| 39.6 |
| 31.1 |
| 22.9 |
| 19.2 |
| 15.7 |
| 11.6 |
| 7.5 |
| 3.8 |
| 0.6 |
| 0.0 |
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