

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: P845962

Luminaire Tested: **GLAN-SB1B-840-U-SL4-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P845962
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-SB1B-840-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 450mA 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: 3497 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

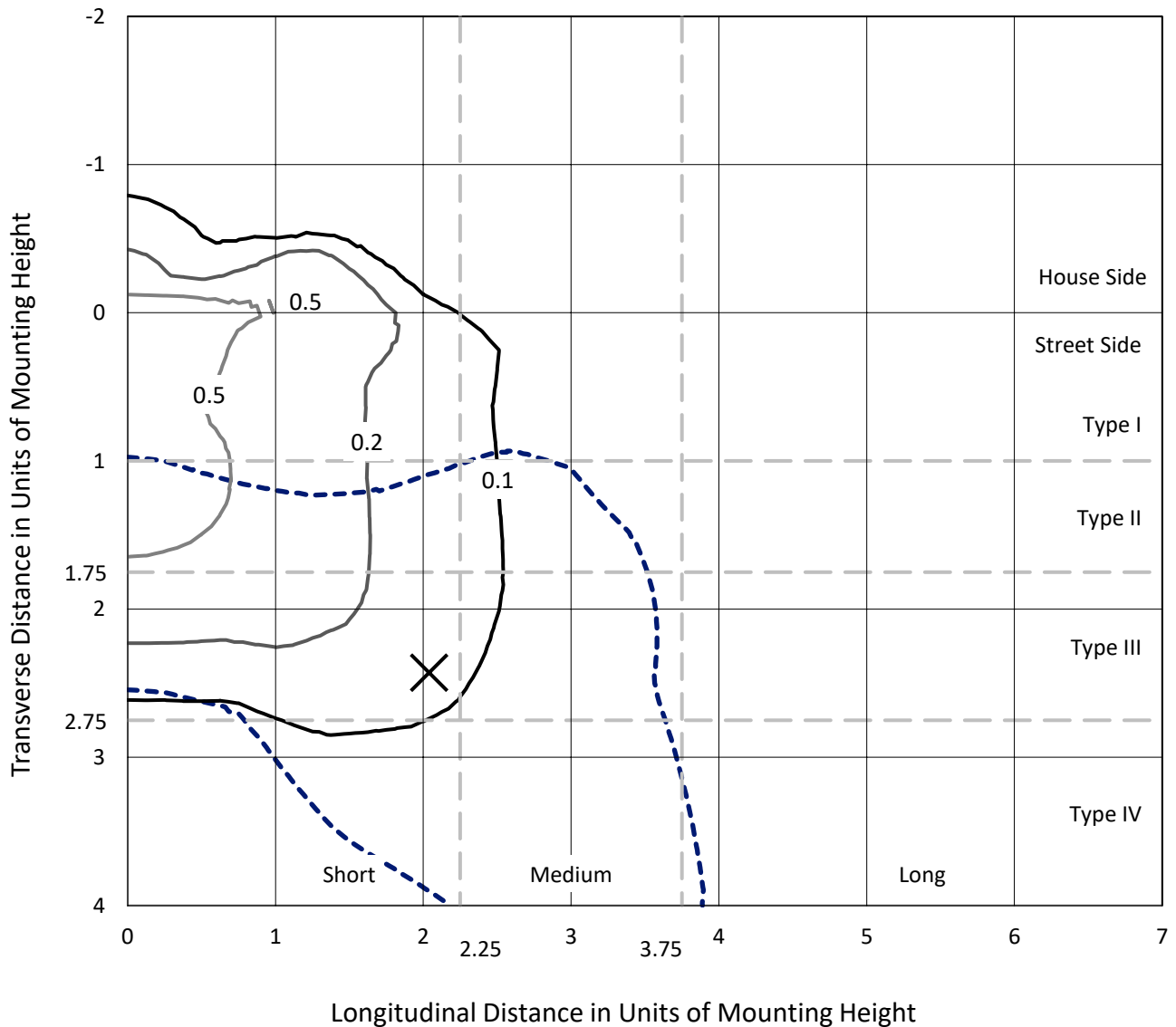
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

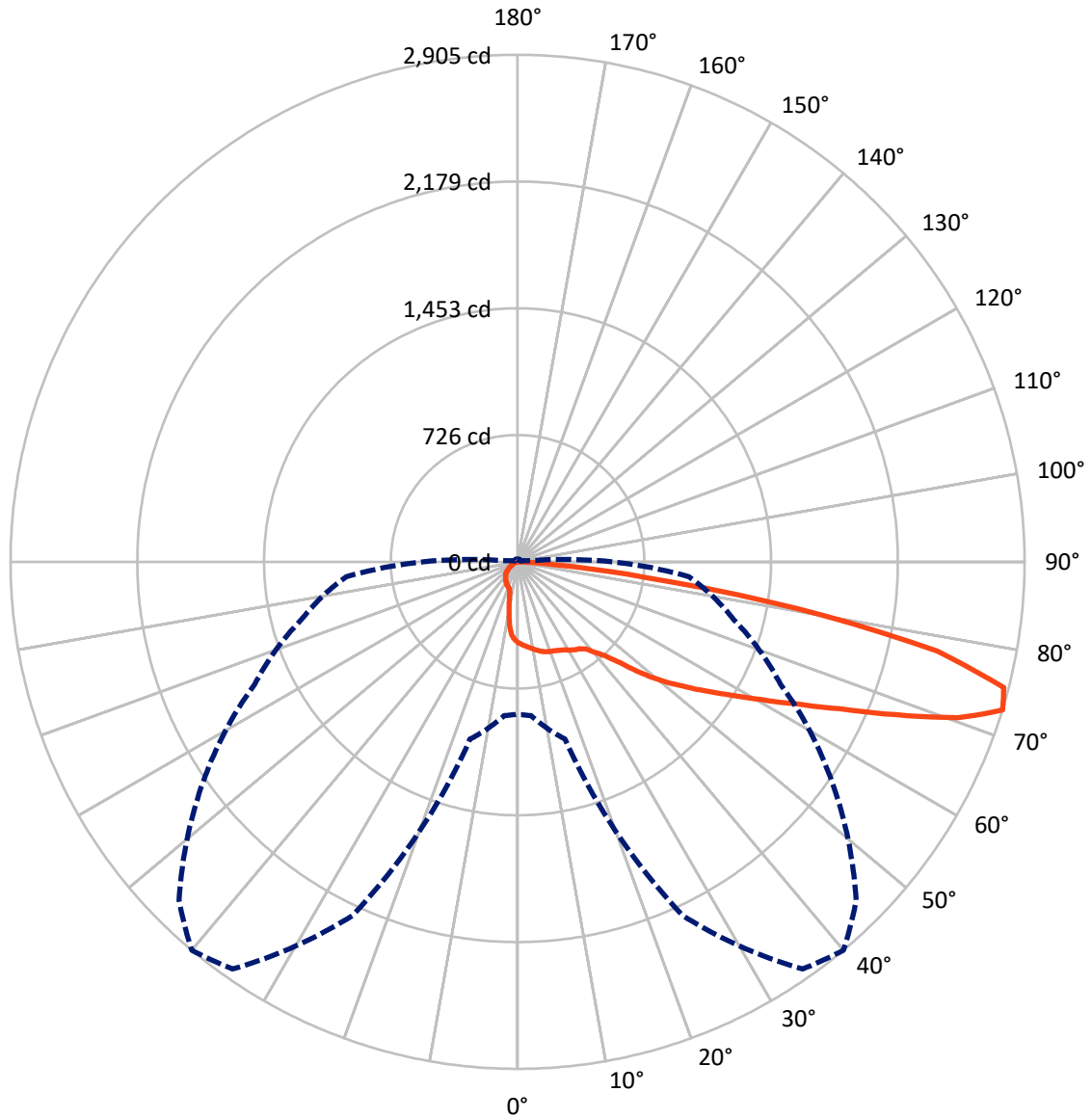
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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 | 451.6 | 0.0 | 451.6 |
| | % Fixture | 12.9 | 0.0 | 12.9 |
| Street Side | Lumens | 3045.4 | 0.0 | 3045.4 |
| | % Fixture | 87.1 | 0.0 | 87.1 |
| Total | Lumens | 3497.0 | 0.0 | 3497.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 42.3 | 1.2 |
| 10°-20° | 114.8 | 3.3 |
| 20°-30° | 185.8 | 5.3 |
| 30°-40° | 274.3 | 7.8 |
| 40°-50° | 461.7 | 13.2 |
| 50°-60° | 716.9 | 20.5 |
| 60°-70° | 897.0 | 25.7 |
| 70°-80° | 734.4 | 21.0 |
| 80°-90° | 69.6 | 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° | 3497.0 | 100.0 |
| 0°-180° | 3497.0 | 100.0 |

Coefficient of Utilization



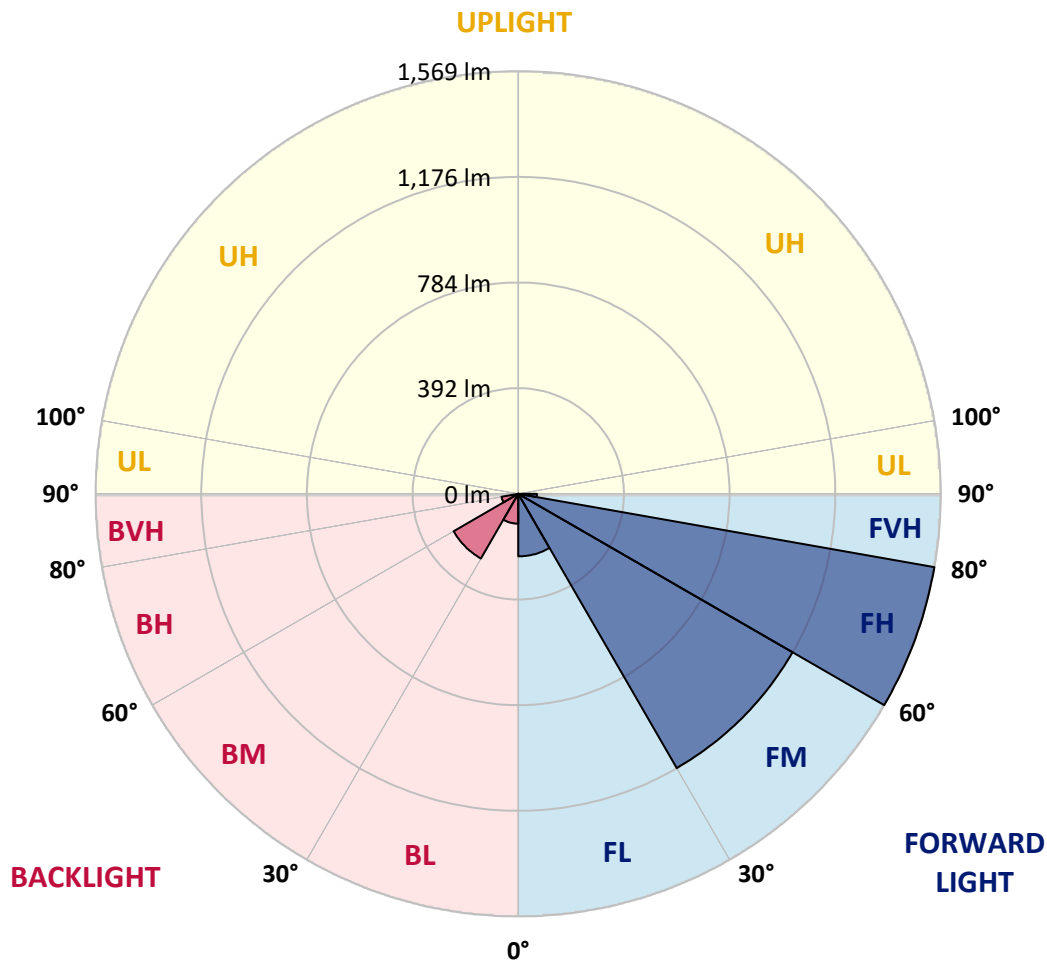
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 232.1 | 6.6 | | | |
| FM (30°-60°) | 1175.6 | 33.6 | | | |
| FH (60°-80°) | 1568.6 | 44.9 | | | G1/1800 |
| FVH (80°-90°) | 69.1 | 2.0 | | | G1/100 |
| BL (0°-30°) | 110.8 | 3.2 | B1/500 | | |
| BM (30°-60°) | 277.3 | 7.9 | B1/1000 | | |
| BH (60°-80°) | 62.9 | 1.8 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.5 | 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 IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 463.0 | 463.0 | 463.0 | 463.0 | 463.0 | 463.0 | 463.0 | 463.0 | 463.0 | 463.0 |
| 2.5° | 477.0 | 478.8 | 477.8 | 475.7 | 475.1 | 474.1 | 472.8 | 472.2 | 470.4 | 468.8 |
| 5° | 490.4 | 492.3 | 490.9 | 488.1 | 486.7 | 485.4 | 483.6 | 482.0 | 478.3 | 474.9 |
| 7.5° | 505.2 | 506.8 | 505.2 | 501.0 | 498.9 | 497.3 | 494.6 | 492.3 | 488.1 | 483.0 |
| 10° | 521.5 | 522.8 | 520.4 | 514.9 | 511.5 | 509.1 | 506.8 | 504.1 | 500.2 | 494.6 |
| 12.5° | 536.8 | 538.4 | 534.7 | 528.1 | 524.1 | 521.8 | 519.1 | 517.0 | 513.1 | 507.8 |
| 15° | 550.7 | 553.1 | 546.8 | 539.7 | 535.2 | 533.4 | 530.7 | 529.4 | 526.8 | 523.1 |
| 17.5° | 561.3 | 562.9 | 556.3 | 547.8 | 542.8 | 541.5 | 539.7 | 540.5 | 539.9 | 538.1 |
| 20° | 570.2 | 571.3 | 562.6 | 552.3 | 546.8 | 547.1 | 546.5 | 549.2 | 550.2 | 550.2 |
| 22.5° | 581.3 | 581.6 | 570.5 | 557.6 | 551.0 | 552.8 | 553.6 | 556.5 | 558.6 | 560.7 |
| 25° | 595.8 | 595.3 | 582.1 | 564.4 | 558.6 | 561.3 | 563.1 | 564.2 | 566.5 | 570.0 |
| 27.5° | 617.4 | 615.8 | 598.9 | 575.5 | 568.6 | 571.0 | 574.4 | 573.9 | 572.9 | 575.5 |
| 30° | 644.8 | 642.7 | 620.3 | 591.0 | 584.7 | 586.8 | 587.9 | 583.1 | 575.5 | 577.9 |
| 32.5° | 688.2 | 684.5 | 653.5 | 608.4 | 598.7 | 601.0 | 599.7 | 590.0 | 578.7 | 581.0 |
| 35° | 763.8 | 754.9 | 710.9 | 644.8 | 614.5 | 611.8 | 608.7 | 599.2 | 585.2 | 582.9 |
| 37.5° | 924.5 | 908.7 | 833.6 | 715.6 | 650.3 | 633.2 | 623.4 | 614.0 | 592.4 | 582.9 |
| 40° | 1105.7 | 1089.6 | 1003.0 | 834.1 | 709.8 | 680.9 | 657.7 | 631.3 | 599.7 | 586.3 |
| 42.5° | 1294.8 | 1277.2 | 1188.1 | 981.1 | 794.9 | 735.4 | 692.2 | 645.3 | 611.8 | 596.8 |
| 45° | 1506.0 | 1483.9 | 1367.5 | 1134.4 | 918.4 | 826.0 | 747.8 | 674.0 | 632.9 | 615.5 |
| 47.5° | 1728.9 | 1700.2 | 1546.3 | 1283.2 | 1051.4 | 951.3 | 849.4 | 725.4 | 664.0 | 643.5 |
| 50° | 1926.4 | 1898.0 | 1731.0 | 1438.9 | 1175.8 | 1070.7 | 965.3 | 796.5 | 710.6 | 683.0 |
| 52.5° | 2068.4 | 2046.8 | 1899.0 | 1599.5 | 1305.1 | 1182.6 | 1070.4 | 879.2 | 769.6 | 733.5 |
| 55° | 2163.4 | 2143.7 | 2018.1 | 1751.8 | 1455.5 | 1305.9 | 1173.9 | 969.0 | 840.7 | 794.1 |
| 57.5° | 2221.1 | 2209.8 | 2104.2 | 1887.7 | 1604.5 | 1440.7 | 1292.4 | 1067.8 | 924.5 | 865.5 |
| 60° | 2241.7 | 2232.5 | 2157.7 | 2017.3 | 1784.7 | 1602.7 | 1431.8 | 1179.2 | 1026.1 | 946.6 |
| 62.5° | 2186.9 | 2188.7 | 2196.1 | 2170.8 | 1974.6 | 1792.3 | 1598.7 | 1313.0 | 1138.9 | 1038.5 |
| 65° | 1929.0 | 1944.3 | 2084.4 | 2341.0 | 2226.1 | 2029.9 | 1811.3 | 1476.3 | 1267.9 | 1143.1 |
| 67.5° | 1597.2 | 1619.3 | 1793.7 | 2440.5 | 2494.3 | 2338.3 | 2107.3 | 1684.3 | 1421.8 | 1249.5 |
| 70° | 1222.6 | 1246.3 | 1457.6 | 2419.7 | 2745.3 | 2675.5 | 2473.5 | 1949.1 | 1581.1 | 1323.2 |
| 72.5° | 872.6 | 884.7 | 1051.2 | 2234.6 | 2848.2 | 2905.1 | 2743.2 | 2199.8 | 1662.5 | 1282.4 |
| 75° | 613.2 | 611.1 | 721.4 | 1799.4 | 2687.8 | 2877.2 | 2648.6 | 2064.1 | 1504.5 | 1018.8 |
| 77.5° | 267.1 | 267.6 | 360.3 | 1092.8 | 2145.3 | 2457.4 | 2201.6 | 1293.0 | 1048.8 | 539.9 |
| 80° | 69.3 | 71.4 | 132.2 | 435.1 | 1291.6 | 1621.9 | 1342.7 | 568.4 | 484.6 | 131.7 |
| 82.5° | 24.5 | 26.1 | 60.8 | 136.7 | 476.5 | 743.8 | 597.9 | 181.7 | 126.4 | 37.7 |
| 85° | 7.1 | 8.4 | 32.7 | 41.9 | 98.5 | 210.2 | 145.1 | 35.3 | 31.1 | 19.5 |
| 87.5° | 0.0 | 1.1 | 6.6 | 5.8 | 5.8 | 4.0 | 7.4 | 4.0 | 5.0 | 2.4 |
| 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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 CATALOG NUMBER: GLAN-SB1B-840-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 463.0 | 0° | 463.0 | 463.0 | 463.0 | 463.0 | 463.0 | 463.0 | 463.0 | 463.0 | 463.0 | 463.0 |
| 467.0 | 2.5° | 465.4 | 463.6 | 459.6 | 455.4 | 451.4 | 447.8 | 446.7 | 442.8 | 440.9 | 441.2 |
| 470.7 | 5° | 467.8 | 464.3 | 456.7 | 447.5 | 438.0 | 427.2 | 418.3 | 405.6 | 394.8 | 393.5 |
| 477.8 | 7.5° | 474.1 | 468.6 | 456.2 | 438.3 | 414.6 | 384.8 | 357.2 | 329.8 | 314.2 | 305.8 |
| 488.3 | 10° | 483.8 | 476.5 | 457.5 | 423.3 | 373.0 | 319.7 | 277.9 | 243.4 | 225.7 | 217.6 |
| 501.2 | 12.5° | 495.4 | 487.3 | 459.6 | 397.7 | 319.2 | 249.4 | 204.1 | 183.1 | 179.4 | 178.8 |
| 517.0 | 15° | 511.8 | 502.8 | 462.0 | 363.2 | 261.0 | 189.9 | 169.1 | 169.4 | 172.3 | 173.8 |
| 534.1 | 17.5° | 529.9 | 521.0 | 458.6 | 321.1 | 203.6 | 162.2 | 161.7 | 164.1 | 168.3 | 169.9 |
| 549.9 | 20° | 548.4 | 539.9 | 446.4 | 271.6 | 164.6 | 154.6 | 156.7 | 159.3 | 163.6 | 165.7 |
| 565.5 | 22.5° | 567.3 | 560.0 | 427.2 | 218.9 | 148.5 | 149.1 | 151.7 | 154.3 | 159.1 | 161.5 |
| 580.8 | 25° | 587.6 | 581.3 | 401.7 | 175.4 | 141.7 | 143.3 | 146.7 | 149.9 | 154.9 | 157.8 |
| 593.7 | 27.5° | 608.2 | 603.4 | 372.7 | 146.4 | 135.4 | 137.2 | 141.2 | 145.4 | 150.4 | 153.8 |
| 605.0 | 30° | 630.5 | 627.9 | 349.5 | 135.6 | 129.3 | 130.9 | 135.4 | 140.1 | 145.7 | 149.9 |
| 616.3 | 32.5° | 653.5 | 652.9 | 338.2 | 143.5 | 123.8 | 124.8 | 128.8 | 133.5 | 140.4 | 145.7 |
| 625.8 | 35° | 676.1 | 677.2 | 331.6 | 165.9 | 121.9 | 119.1 | 121.7 | 125.9 | 134.1 | 140.6 |
| 636.6 | 37.5° | 705.1 | 707.7 | 331.3 | 190.2 | 126.4 | 113.3 | 115.1 | 118.0 | 125.1 | 132.7 |
| 653.5 | 40° | 748.3 | 762.2 | 348.2 | 211.0 | 134.3 | 108.0 | 108.5 | 109.0 | 112.7 | 119.1 |
| 675.8 | 42.5° | 805.7 | 846.5 | 409.0 | 225.2 | 137.5 | 103.2 | 101.4 | 98.5 | 98.0 | 101.4 |
| 706.4 | 45° | 877.1 | 948.5 | 516.0 | 233.1 | 134.3 | 98.0 | 93.0 | 85.3 | 82.4 | 84.8 |
| 747.8 | 47.5° | 961.1 | 1060.1 | 642.7 | 234.9 | 129.1 | 91.4 | 82.4 | 72.4 | 70.1 | 70.9 |
| 803.3 | 50° | 1043.0 | 1143.9 | 754.1 | 219.7 | 120.4 | 83.0 | 70.9 | 62.4 | 60.8 | 61.1 |
| 868.9 | 52.5° | 1115.4 | 1172.6 | 785.7 | 183.6 | 108.8 | 72.7 | 60.8 | 55.0 | 54.0 | 54.0 |
| 941.3 | 55° | 1163.4 | 1141.5 | 700.6 | 140.4 | 94.3 | 62.2 | 52.2 | 49.3 | 48.7 | 48.5 |
| 1022.2 | 57.5° | 1173.4 | 1040.4 | 529.1 | 101.4 | 73.7 | 52.4 | 46.4 | 44.8 | 43.7 | 42.7 |
| 1105.2 | 60° | 1137.6 | 871.8 | 336.9 | 70.9 | 55.3 | 44.8 | 41.1 | 40.0 | 37.9 | 35.8 |
| 1183.1 | 62.5° | 1060.1 | 658.5 | 186.5 | 49.3 | 44.5 | 38.2 | 36.3 | 35.0 | 31.1 | 27.7 |
| 1245.0 | 65° | 956.1 | 437.7 | 82.4 | 38.5 | 36.3 | 32.1 | 31.1 | 29.2 | 24.5 | 20.5 |
| 1268.5 | 67.5° | 851.5 | 252.1 | 37.1 | 30.8 | 29.2 | 26.3 | 25.5 | 24.2 | 20.8 | 17.1 |
| 1208.7 | 70° | 732.2 | 127.7 | 25.5 | 24.5 | 22.7 | 20.0 | 20.8 | 20.5 | 17.1 | 14.0 |
| 985.9 | 72.5° | 545.2 | 63.5 | 19.2 | 18.4 | 16.3 | 14.2 | 17.1 | 16.9 | 13.4 | 10.5 |
| 607.9 | 75° | 308.7 | 31.3 | 14.0 | 12.9 | 9.7 | 10.5 | 13.7 | 12.9 | 9.2 | 6.8 |
| 256.5 | 77.5° | 122.5 | 16.1 | 9.2 | 7.9 | 5.8 | 7.1 | 10.0 | 8.7 | 4.7 | 2.9 |
| 49.0 | 80° | 28.2 | 7.9 | 4.7 | 3.4 | 2.6 | 4.2 | 5.3 | 3.2 | 1.3 | 0.3 |
| 13.2 | 82.5° | 7.9 | 3.4 | 1.6 | 1.3 | 1.3 | 1.6 | 1.3 | 0.5 | 0.0 | 0.0 |
| 3.4 | 85° | 2.6 | 1.6 | 0.5 | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| 1.1 | 87.5° | 1.1 | 0.5 | 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 |

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| |
|-------|
| 180° |
| <hr/> |
| 463.0 |
| 440.9 |
| 392.7 |
| 305.3 |
| 216.0 |
| 178.6 |
| 173.6 |
| 169.6 |
| 165.7 |
| 161.5 |
| 157.8 |
| 154.1 |
| 150.4 |
| 146.2 |
| 141.7 |
| 134.1 |
| 121.2 |
| 103.2 |
| 84.8 |
| 70.6 |
| 61.1 |
| 53.7 |
| 47.9 |
| 42.1 |
| 35.0 |
| 26.6 |
| 19.8 |
| 16.6 |
| 13.4 |
| 10.0 |
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