

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: McGRAW-EDISON

Report Number: P938801

Luminaire Tested: **GALN-SB1A-835-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-835-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 350mA 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: 2905 lumens
Efficiency: N/A
Efficacy: 94.0 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

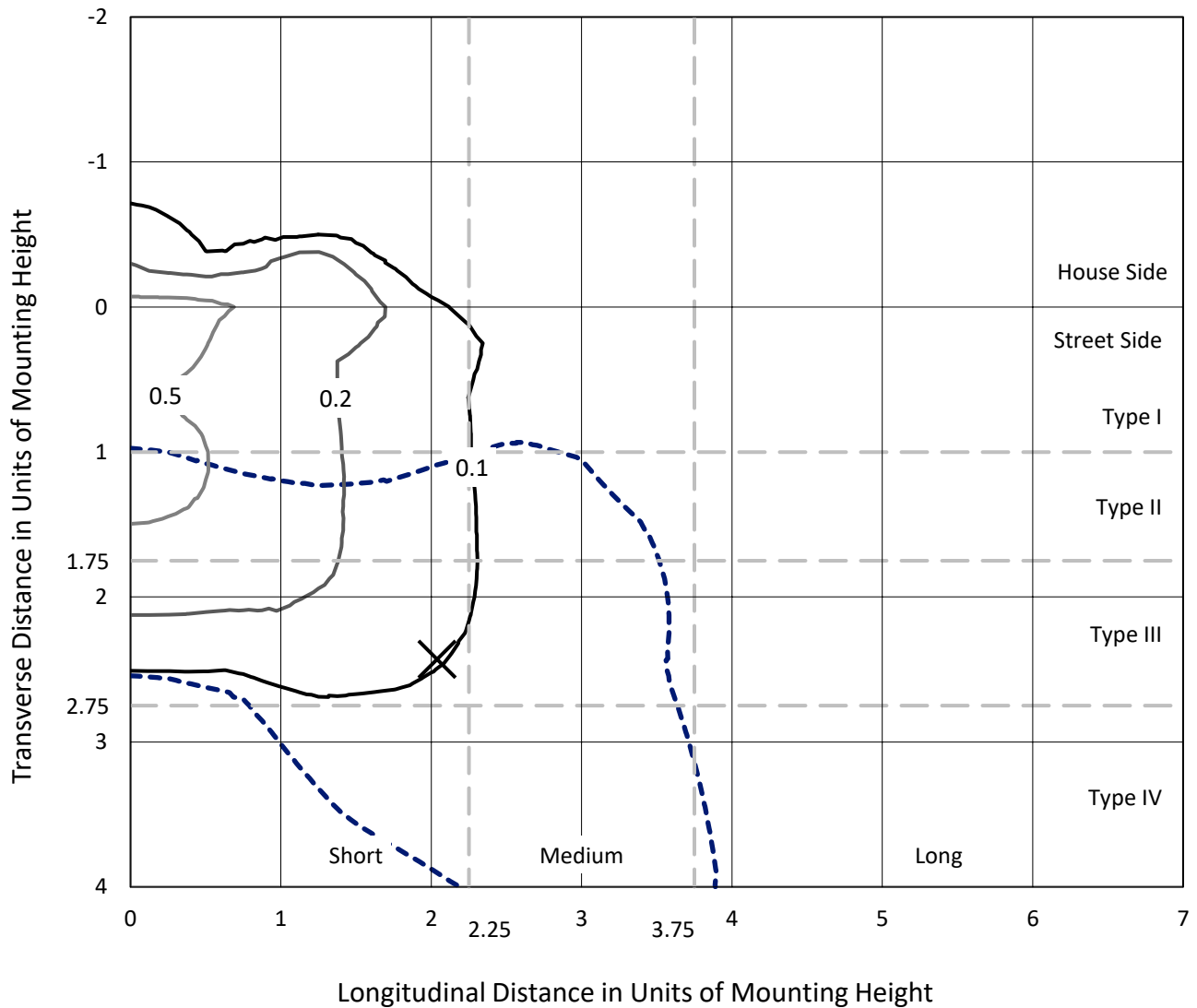
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

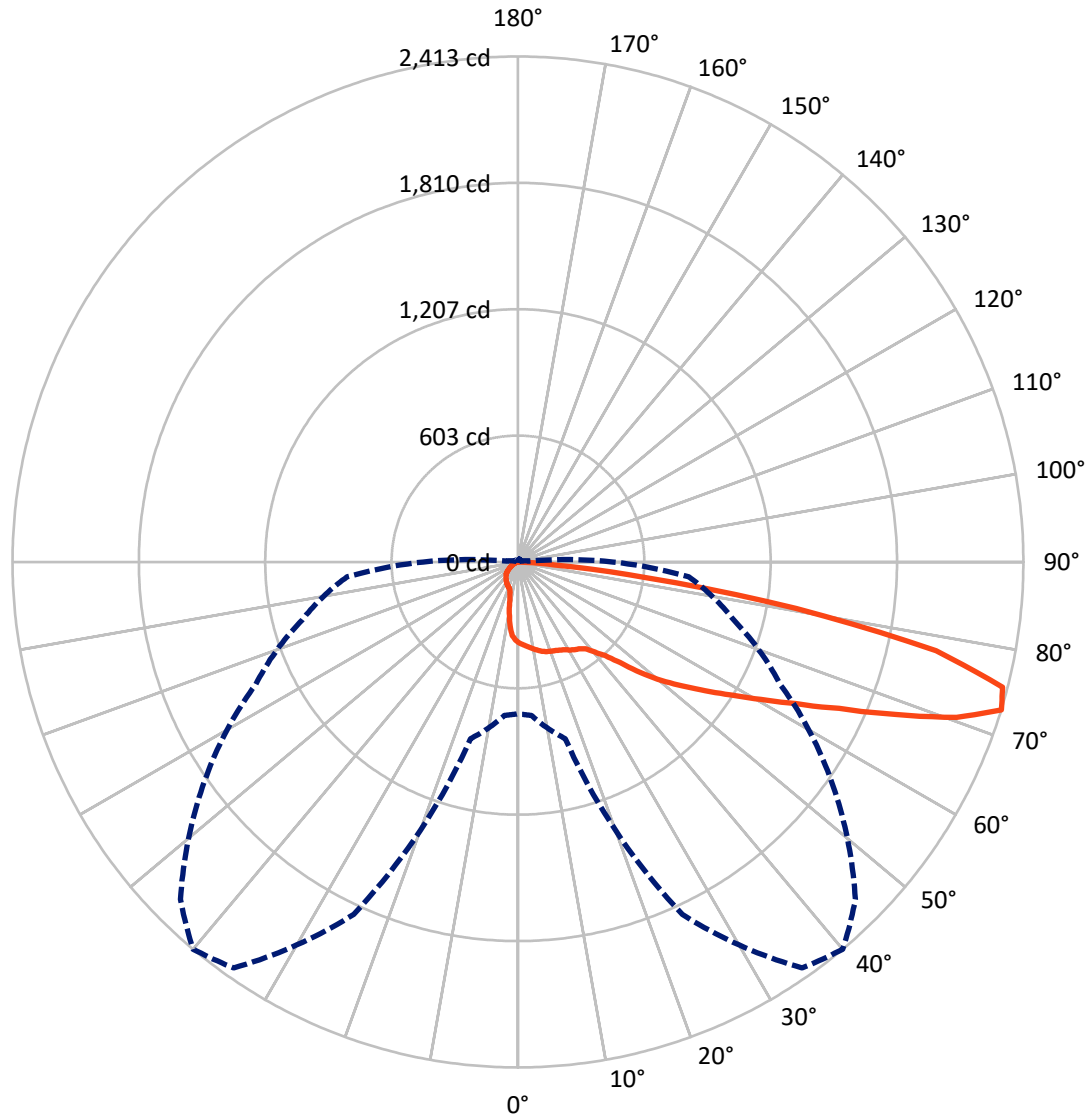
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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 | 375.1 | 0.0 | 375.1 |
| | % Fixture | 12.9 | 0.0 | 12.9 |
| Street Side | Lumens | 2529.9 | 0.0 | 2529.9 |
| | % Fixture | 87.1 | 0.0 | 87.1 |
| Total | Lumens | 2905.0 | 0.0 | 2905.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 35.1 | 1.2 |
| 10°-20° | 95.4 | 3.3 |
| 20°-30° | 154.4 | 5.3 |
| 30°-40° | 227.9 | 7.8 |
| 40°-50° | 383.5 | 13.2 |
| 50°-60° | 595.5 | 20.5 |
| 60°-70° | 745.2 | 25.7 |
| 70°-80° | 610.1 | 21.0 |
| 80°-90° | 57.8 | 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° | 2905.0 | 100.0 |
| 0°-180° | 2905.0 | 100.0 |

Coefficient of Utilization



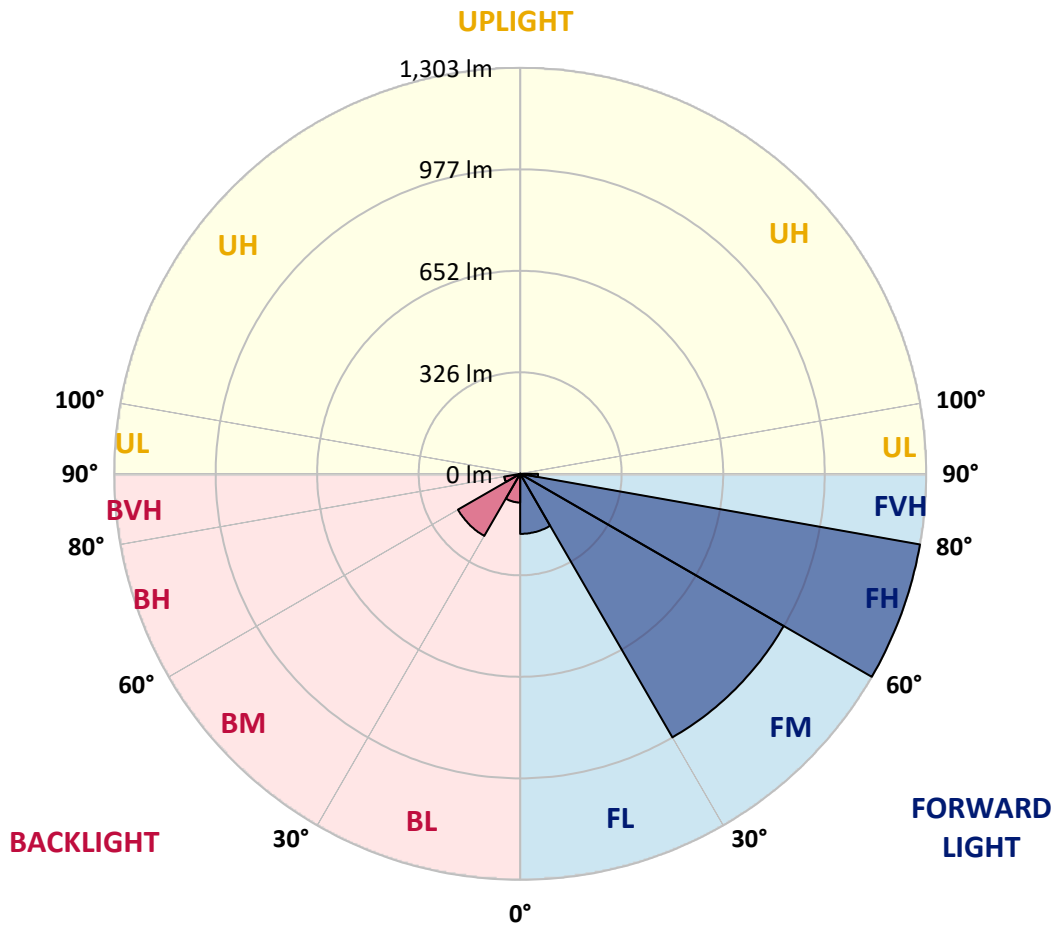
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 192.8 | 6.6 | | | |
| FM (30°-60°) | 976.6 | 33.6 | | | |
| FH (60°-80°) | 1303.0 | 44.9 | | | G1/1800 |
| FVH (80°-90°) | 57.4 | 2.0 | | | G1/100 |
| BL (0°-30°) | 92.1 | 3.2 | B0/110 | | |
| BM (30°-60°) | 230.4 | 7.9 | B1/1000 | | |
| BH (60°-80°) | 52.3 | 1.8 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.4 | 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° | 384.6 | 384.6 | 384.6 | 384.6 | 384.6 | 384.6 | 384.6 | 384.6 | 384.6 | 384.6 |
| 2.5° | 396.2 | 397.8 | 396.9 | 395.1 | 394.7 | 393.8 | 392.7 | 392.3 | 390.8 | 389.5 |
| 5° | 407.4 | 408.9 | 407.8 | 405.4 | 404.3 | 403.2 | 401.7 | 400.4 | 397.3 | 394.5 |
| 7.5° | 419.7 | 421.0 | 419.7 | 416.2 | 414.4 | 413.1 | 410.9 | 408.9 | 405.4 | 401.3 |
| 10° | 433.2 | 434.3 | 432.3 | 427.7 | 424.9 | 422.9 | 421.0 | 418.8 | 415.5 | 410.9 |
| 12.5° | 445.9 | 447.2 | 444.2 | 438.7 | 435.4 | 433.4 | 431.2 | 429.5 | 426.2 | 421.8 |
| 15° | 457.5 | 459.5 | 454.2 | 448.3 | 444.6 | 443.1 | 440.9 | 439.8 | 437.6 | 434.5 |
| 17.5° | 466.3 | 467.6 | 462.1 | 455.1 | 450.9 | 449.8 | 448.3 | 449.0 | 448.5 | 447.0 |
| 20° | 473.7 | 474.6 | 467.4 | 458.8 | 454.2 | 454.4 | 454.0 | 456.2 | 457.1 | 457.1 |
| 22.5° | 482.9 | 483.1 | 473.9 | 463.2 | 457.7 | 459.3 | 459.9 | 462.3 | 464.1 | 465.8 |
| 25° | 494.9 | 494.5 | 483.5 | 468.9 | 464.1 | 466.3 | 467.8 | 468.7 | 470.6 | 473.5 |
| 27.5° | 512.9 | 511.5 | 497.5 | 478.1 | 472.4 | 474.4 | 477.2 | 476.8 | 475.9 | 478.1 |
| 30° | 535.6 | 533.9 | 515.3 | 491.0 | 485.7 | 487.5 | 488.4 | 484.4 | 478.1 | 480.0 |
| 32.5° | 571.7 | 568.7 | 542.8 | 505.4 | 497.3 | 499.3 | 498.2 | 490.1 | 480.7 | 482.7 |
| 35° | 634.5 | 627.1 | 590.5 | 535.6 | 510.5 | 508.3 | 505.6 | 497.8 | 486.2 | 484.2 |
| 37.5° | 768.0 | 754.9 | 692.5 | 594.5 | 540.2 | 526.0 | 517.9 | 510.0 | 492.1 | 484.2 |
| 40° | 918.5 | 905.2 | 833.2 | 692.9 | 589.7 | 565.6 | 546.3 | 524.5 | 498.2 | 487.0 |
| 42.5° | 1075.6 | 1060.9 | 987.0 | 815.0 | 660.3 | 610.9 | 575.0 | 536.1 | 508.3 | 495.8 |
| 45° | 1251.1 | 1232.7 | 1136.0 | 942.4 | 762.9 | 686.1 | 621.2 | 559.9 | 525.8 | 511.3 |
| 47.5° | 1436.2 | 1412.3 | 1284.6 | 1066.0 | 873.4 | 790.3 | 705.6 | 602.6 | 551.6 | 534.5 |
| 50° | 1600.3 | 1576.7 | 1437.9 | 1195.3 | 976.7 | 889.4 | 801.9 | 661.6 | 590.3 | 567.3 |
| 52.5° | 1718.2 | 1700.3 | 1577.5 | 1328.8 | 1084.1 | 982.4 | 889.2 | 730.3 | 639.3 | 609.4 |
| 55° | 1797.2 | 1780.8 | 1676.4 | 1455.2 | 1209.1 | 1084.8 | 975.2 | 805.0 | 698.4 | 659.7 |
| 57.5° | 1845.1 | 1835.7 | 1748.0 | 1568.1 | 1332.9 | 1196.8 | 1073.6 | 887.0 | 768.0 | 719.0 |
| 60° | 1862.2 | 1854.5 | 1792.4 | 1675.8 | 1482.6 | 1331.4 | 1189.4 | 979.6 | 852.4 | 786.4 |
| 62.5° | 1816.7 | 1818.2 | 1824.3 | 1803.3 | 1640.3 | 1488.9 | 1328.1 | 1090.7 | 946.1 | 862.7 |
| 65° | 1602.5 | 1615.2 | 1731.6 | 1944.7 | 1849.3 | 1686.3 | 1504.7 | 1226.4 | 1053.3 | 949.6 |
| 67.5° | 1326.8 | 1345.2 | 1490.0 | 2027.4 | 2072.0 | 1942.5 | 1750.6 | 1399.2 | 1181.1 | 1038.0 |
| 70° | 1015.7 | 1035.3 | 1210.8 | 2010.1 | 2280.5 | 2222.5 | 2054.7 | 1619.1 | 1313.4 | 1099.2 |
| 72.5° | 724.9 | 734.9 | 873.2 | 1856.3 | 2366.1 | 2413.3 | 2278.8 | 1827.4 | 1381.0 | 1065.3 |
| 75° | 509.4 | 507.6 | 599.3 | 1494.8 | 2232.8 | 2390.1 | 2200.2 | 1714.7 | 1249.8 | 846.3 |
| 77.5° | 221.9 | 222.3 | 299.3 | 907.8 | 1782.1 | 2041.4 | 1828.9 | 1074.1 | 871.3 | 448.5 |
| 80° | 57.5 | 59.3 | 109.8 | 361.5 | 1073.0 | 1347.4 | 1115.4 | 472.2 | 402.6 | 109.4 |
| 82.5° | 20.3 | 21.7 | 50.5 | 113.6 | 395.8 | 617.9 | 496.7 | 151.0 | 105.0 | 31.3 |
| 85° | 5.9 | 7.0 | 27.1 | 34.8 | 81.8 | 174.6 | 120.6 | 29.3 | 25.8 | 16.2 |
| 87.5° | 0.0 | 0.9 | 5.5 | 4.8 | 4.8 | 3.3 | 6.1 | 3.3 | 4.2 | 2.0 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 384.6 | 0° | 384.6 | 384.6 | 384.6 | 384.6 | 384.6 | 384.6 | 384.6 | 384.6 | 384.6 | 384.6 |
| 387.9 | 2.5° | 386.6 | 385.1 | 381.8 | 378.3 | 375.0 | 372.0 | 371.1 | 367.8 | 366.3 | 366.5 |
| 391.0 | 5° | 388.6 | 385.7 | 379.4 | 371.7 | 363.9 | 354.9 | 347.5 | 336.9 | 328.0 | 326.9 |
| 396.9 | 7.5° | 393.8 | 389.2 | 379.0 | 364.1 | 344.4 | 319.7 | 296.7 | 273.9 | 261.0 | 254.0 |
| 405.7 | 10° | 401.9 | 395.8 | 380.1 | 351.6 | 309.8 | 265.6 | 230.8 | 202.2 | 187.5 | 180.7 |
| 416.4 | 12.5° | 411.6 | 404.8 | 381.8 | 330.4 | 265.2 | 207.2 | 169.6 | 152.1 | 149.0 | 148.6 |
| 429.5 | 15° | 425.1 | 417.7 | 383.8 | 301.7 | 216.8 | 157.8 | 140.5 | 140.7 | 143.1 | 144.4 |
| 443.7 | 17.5° | 440.2 | 432.8 | 380.9 | 266.7 | 169.1 | 134.8 | 134.3 | 136.3 | 139.8 | 141.1 |
| 456.8 | 20° | 455.5 | 448.5 | 370.9 | 225.6 | 136.7 | 128.4 | 130.2 | 132.4 | 135.9 | 137.6 |
| 469.8 | 22.5° | 471.3 | 465.2 | 354.9 | 181.8 | 123.4 | 123.8 | 126.0 | 128.2 | 132.2 | 134.1 |
| 482.4 | 25° | 488.1 | 482.9 | 333.7 | 145.7 | 117.7 | 119.0 | 121.9 | 124.5 | 128.7 | 131.1 |
| 493.2 | 27.5° | 505.2 | 501.3 | 309.6 | 121.7 | 112.5 | 114.0 | 117.3 | 120.8 | 124.9 | 127.8 |
| 502.6 | 30° | 523.8 | 521.6 | 290.3 | 112.7 | 107.4 | 108.7 | 112.5 | 116.4 | 121.0 | 124.5 |
| 512.0 | 32.5° | 542.8 | 542.4 | 280.9 | 119.2 | 102.8 | 103.7 | 107.0 | 110.9 | 116.6 | 121.0 |
| 519.9 | 35° | 561.7 | 562.5 | 275.5 | 137.8 | 101.3 | 98.9 | 101.1 | 104.6 | 111.4 | 116.8 |
| 528.8 | 37.5° | 585.7 | 587.9 | 275.2 | 158.0 | 105.0 | 94.1 | 95.6 | 98.0 | 103.9 | 110.3 |
| 542.8 | 40° | 621.6 | 633.2 | 289.2 | 175.3 | 111.6 | 89.7 | 90.1 | 90.6 | 93.6 | 98.9 |
| 561.4 | 42.5° | 669.3 | 703.2 | 339.8 | 187.1 | 114.2 | 85.8 | 84.2 | 81.8 | 81.4 | 84.2 |
| 586.8 | 45° | 728.6 | 787.9 | 428.6 | 193.6 | 111.6 | 81.4 | 77.2 | 70.9 | 68.5 | 70.5 |
| 621.2 | 47.5° | 798.4 | 880.7 | 533.9 | 195.2 | 107.2 | 75.9 | 68.5 | 60.2 | 58.2 | 58.9 |
| 667.3 | 50° | 866.4 | 950.2 | 626.4 | 182.5 | 100.0 | 68.9 | 58.9 | 51.9 | 50.5 | 50.8 |
| 721.8 | 52.5° | 926.6 | 974.1 | 652.7 | 152.5 | 90.4 | 60.4 | 50.5 | 45.7 | 44.9 | 44.9 |
| 782.0 | 55° | 966.4 | 948.3 | 582.0 | 116.6 | 78.3 | 51.6 | 43.3 | 40.9 | 40.5 | 40.3 |
| 849.2 | 57.5° | 974.7 | 864.2 | 439.6 | 84.2 | 61.3 | 43.5 | 38.5 | 37.2 | 36.3 | 35.4 |
| 918.1 | 60° | 945.0 | 724.2 | 279.8 | 58.9 | 45.9 | 37.2 | 34.1 | 33.3 | 31.5 | 29.8 |
| 982.8 | 62.5° | 880.7 | 547.0 | 154.9 | 40.9 | 37.0 | 31.7 | 30.2 | 29.1 | 25.8 | 23.0 |
| 1034.3 | 65° | 794.2 | 363.6 | 68.5 | 31.9 | 30.2 | 26.7 | 25.8 | 24.3 | 20.3 | 17.1 |
| 1053.7 | 67.5° | 707.4 | 209.4 | 30.9 | 25.6 | 24.3 | 21.9 | 21.2 | 20.1 | 17.3 | 14.2 |
| 1004.1 | 70° | 608.3 | 106.1 | 21.2 | 20.3 | 18.8 | 16.6 | 17.3 | 17.1 | 14.2 | 11.6 |
| 819.0 | 72.5° | 452.9 | 52.7 | 16.0 | 15.3 | 13.6 | 11.8 | 14.2 | 14.0 | 11.2 | 8.8 |
| 505.0 | 75° | 256.4 | 26.0 | 11.6 | 10.7 | 8.1 | 8.8 | 11.4 | 10.7 | 7.7 | 5.7 |
| 213.1 | 77.5° | 101.7 | 13.3 | 7.7 | 6.6 | 4.8 | 5.9 | 8.3 | 7.2 | 3.9 | 2.4 |
| 40.7 | 80° | 23.4 | 6.6 | 3.9 | 2.8 | 2.2 | 3.5 | 4.4 | 2.6 | 1.1 | 0.2 |
| 10.9 | 82.5° | 6.6 | 2.8 | 1.3 | 1.1 | 1.1 | 1.3 | 1.1 | 0.4 | 0.0 | 0.0 |
| 2.8 | 85° | 2.2 | 1.3 | 0.4 | 0.2 | 0.2 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 |
| 0.9 | 87.5° | 0.9 | 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> |
|-------------|
| 384.6 |
| 366.3 |
| 326.2 |
| 253.6 |
| 179.4 |
| 148.3 |
| 144.2 |
| 140.9 |
| 137.6 |
| 134.1 |
| 131.1 |
| 128.0 |
| 124.9 |
| 121.4 |
| 117.7 |
| 111.4 |
| 100.6 |
| 85.8 |
| 70.5 |
| 58.6 |
| 50.8 |
| 44.6 |
| 39.8 |
| 35.0 |
| 29.1 |
| 22.1 |
| 16.4 |
| 13.8 |
| 11.2 |
| 8.3 |
| 5.3 |
| 2.2 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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