

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: P938971

Luminaire Tested: **GALN-SB1B-835-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938971
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-SB1B-835-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 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: 3647 lumens
Efficiency: N/A
Efficacy: 91.6 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

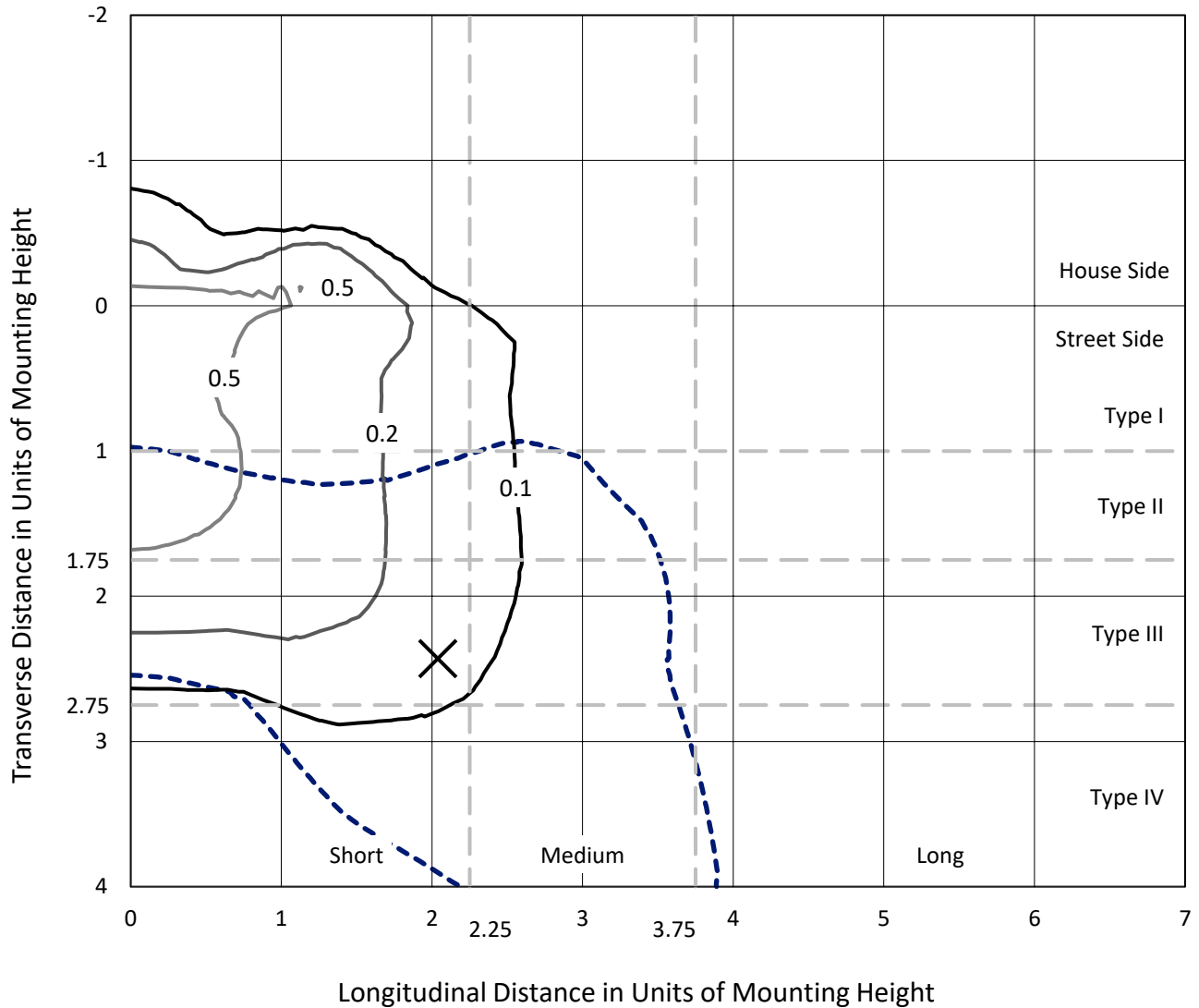
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

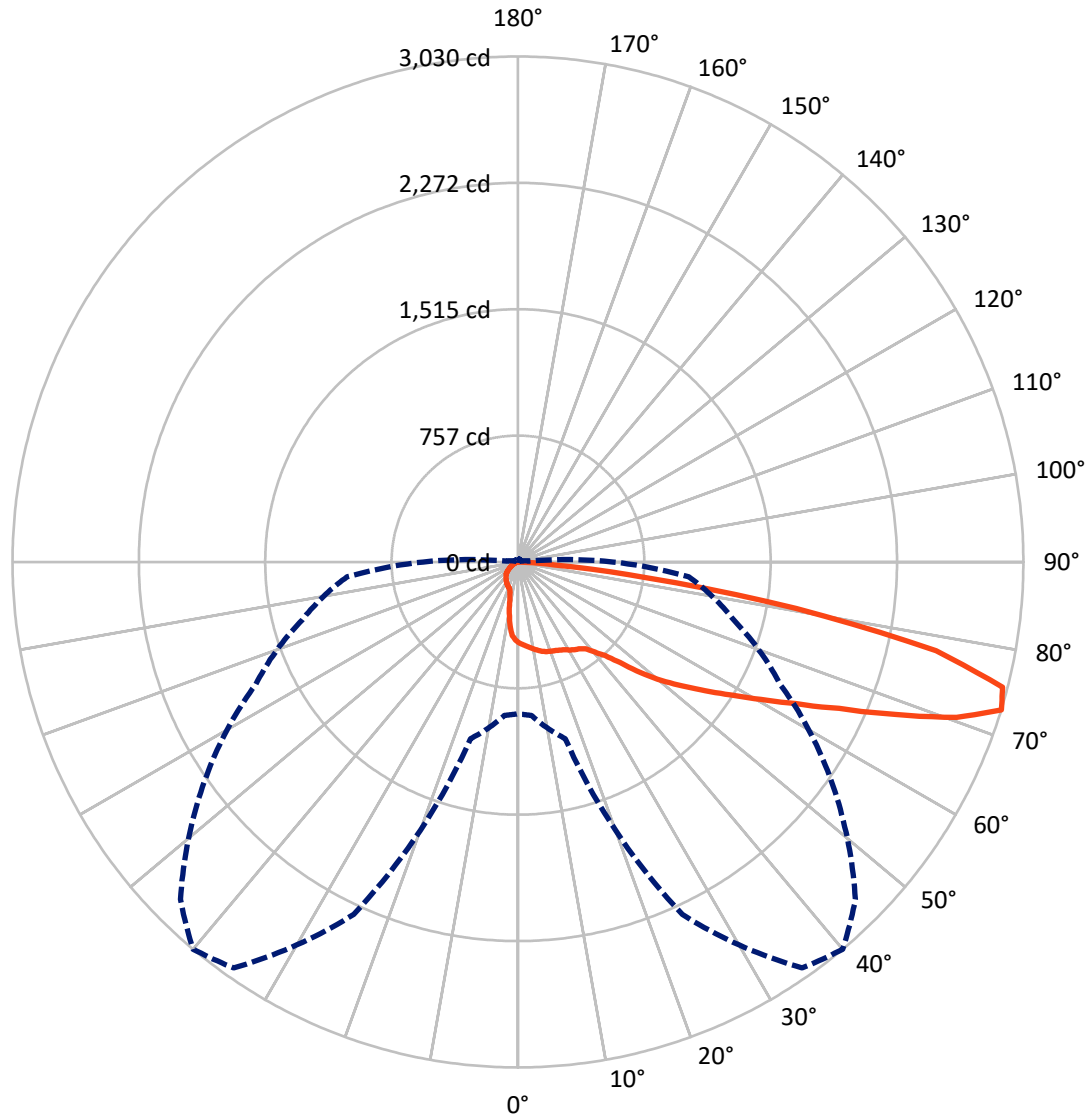
✕ Max cd
 - - - 1/2 Max cd



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 | 471.0 | 0.0 | 471.0 |
| | % Fixture | 12.9 | 0.0 | 12.9 |
| Street Side | Lumens | 3176.0 | 0.0 | 3176.0 |
| | % Fixture | 87.1 | 0.0 | 87.1 |
| Total | Lumens | 3647.0 | 0.0 | 3647.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.1 | 1.2 |
| 10°-20° | 119.8 | 3.3 |
| 20°-30° | 193.8 | 5.3 |
| 30°-40° | 286.1 | 7.8 |
| 40°-50° | 481.5 | 13.2 |
| 50°-60° | 747.7 | 20.5 |
| 60°-70° | 935.5 | 25.7 |
| 70°-80° | 765.9 | 21.0 |
| 80°-90° | 72.6 | 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° | 3647.0 | 100.0 |
| 0°-180° | 3647.0 | 100.0 |

Coefficient of Utilization



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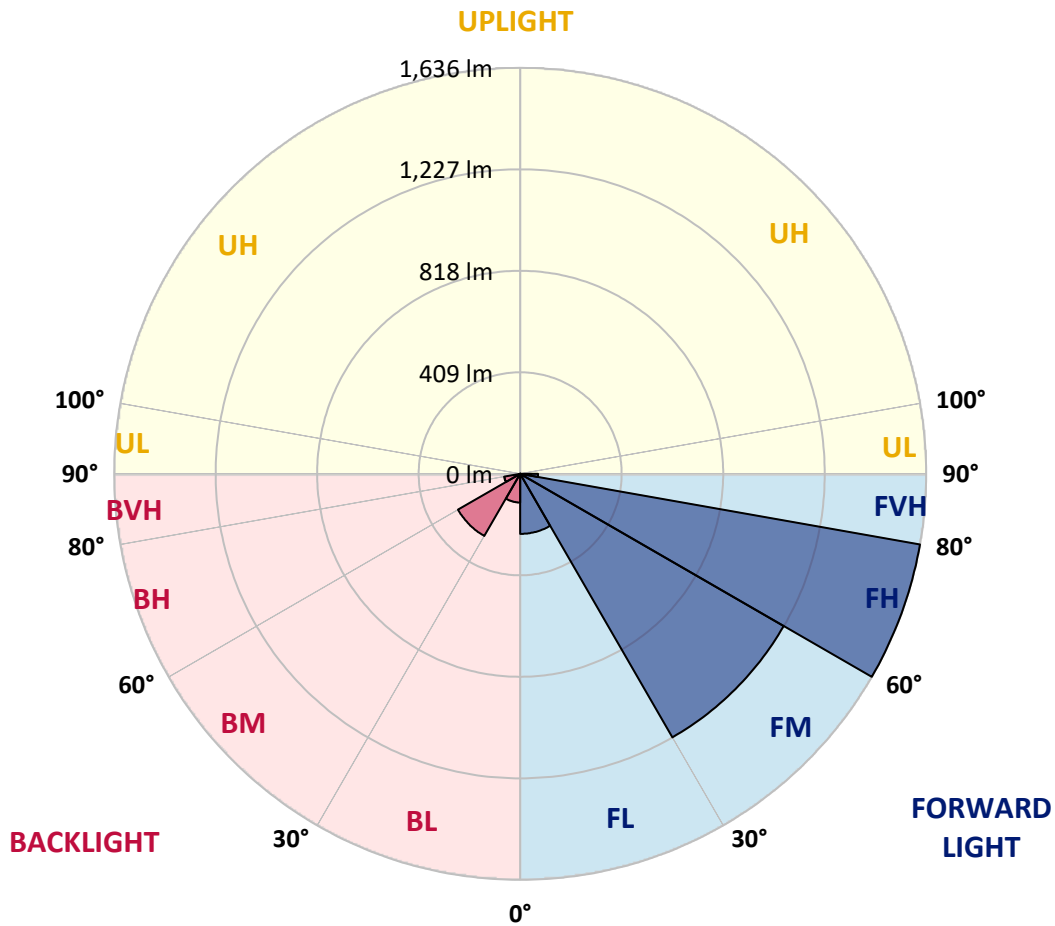
CATALOG NUMBER: GALN-SB1B-835-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 242.1 | 6.6 | | | |
| FM (30°-60°) | 1226.1 | 33.6 | | | |
| FH (60°-80°) | 1635.8 | 44.9 | | | G1/1800 |
| FVH (80°-90°) | 72.1 | 2.0 | | | G1/100 |
| BL (0°-30°) | 115.6 | 3.2 | B1/500 | | |
| BM (30°-60°) | 289.2 | 7.9 | B1/1000 | | |
| BH (60°-80°) | 65.6 | 1.8 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.6 | 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° | 482.9 | 482.9 | 482.9 | 482.9 | 482.9 | 482.9 | 482.9 | 482.9 | 482.9 | 482.9 |
| 2.5° | 497.5 | 499.4 | 498.3 | 496.1 | 495.5 | 494.4 | 493.1 | 492.5 | 490.6 | 488.9 |
| 5° | 511.5 | 513.4 | 512.0 | 509.0 | 507.6 | 506.2 | 504.3 | 502.7 | 498.8 | 495.3 |
| 7.5° | 526.8 | 528.5 | 526.8 | 522.4 | 520.2 | 518.6 | 515.9 | 513.4 | 509.0 | 503.8 |
| 10° | 543.9 | 545.2 | 542.8 | 537.0 | 533.4 | 531.0 | 528.5 | 525.7 | 521.6 | 515.9 |
| 12.5° | 559.8 | 561.5 | 557.6 | 550.7 | 546.6 | 544.1 | 541.4 | 539.2 | 535.1 | 529.6 |
| 15° | 574.4 | 576.8 | 570.2 | 562.8 | 558.2 | 556.2 | 553.5 | 552.1 | 549.4 | 545.5 |
| 17.5° | 585.3 | 587.0 | 580.1 | 571.3 | 566.1 | 564.7 | 562.8 | 563.6 | 563.1 | 561.2 |
| 20° | 594.7 | 595.8 | 586.7 | 576.0 | 570.2 | 570.5 | 570.0 | 572.7 | 573.8 | 573.8 |
| 22.5° | 606.2 | 606.5 | 595.0 | 581.5 | 574.6 | 576.6 | 577.4 | 580.4 | 582.6 | 584.8 |
| 25° | 621.3 | 620.8 | 607.0 | 588.6 | 582.6 | 585.3 | 587.3 | 588.4 | 590.8 | 594.4 |
| 27.5° | 643.9 | 642.2 | 624.6 | 600.2 | 593.0 | 595.5 | 599.1 | 598.5 | 597.4 | 600.2 |
| 30° | 672.4 | 670.2 | 646.9 | 616.4 | 609.8 | 612.0 | 613.1 | 608.1 | 600.2 | 602.7 |
| 32.5° | 717.7 | 713.9 | 681.5 | 634.5 | 624.4 | 626.8 | 625.5 | 615.3 | 603.5 | 606.0 |
| 35° | 796.6 | 787.2 | 741.4 | 672.4 | 640.8 | 638.1 | 634.8 | 624.9 | 610.3 | 607.9 |
| 37.5° | 964.1 | 947.7 | 869.4 | 746.3 | 678.2 | 660.3 | 650.2 | 640.3 | 617.8 | 607.9 |
| 40° | 1153.1 | 1136.4 | 1046.0 | 869.9 | 740.3 | 710.1 | 685.9 | 658.4 | 625.5 | 611.4 |
| 42.5° | 1350.3 | 1331.9 | 1239.1 | 1023.2 | 829.0 | 766.9 | 721.9 | 673.0 | 638.1 | 622.4 |
| 45° | 1570.6 | 1547.6 | 1426.2 | 1183.1 | 957.8 | 861.4 | 779.8 | 702.9 | 660.1 | 641.9 |
| 47.5° | 1803.0 | 1773.1 | 1612.7 | 1338.3 | 1096.5 | 992.2 | 885.9 | 756.5 | 692.5 | 671.1 |
| 50° | 2009.0 | 1979.4 | 1805.2 | 1500.6 | 1226.2 | 1116.6 | 1006.7 | 830.6 | 741.1 | 712.3 |
| 52.5° | 2157.1 | 2134.6 | 1980.5 | 1668.1 | 1361.1 | 1233.3 | 1116.3 | 916.9 | 802.6 | 765.0 |
| 55° | 2256.2 | 2235.6 | 2104.6 | 1826.9 | 1517.9 | 1361.9 | 1224.3 | 1010.6 | 876.8 | 828.2 |
| 57.5° | 2316.4 | 2304.6 | 2194.4 | 1968.7 | 1673.4 | 1502.5 | 1347.9 | 1113.6 | 964.1 | 902.6 |
| 60° | 2337.8 | 2328.2 | 2250.2 | 2103.8 | 1861.3 | 1671.4 | 1493.2 | 1229.8 | 1070.2 | 987.2 |
| 62.5° | 2280.7 | 2282.6 | 2290.3 | 2263.9 | 2059.3 | 1869.2 | 1667.3 | 1369.3 | 1187.7 | 1083.1 |
| 65° | 2011.8 | 2027.7 | 2173.8 | 2441.4 | 2321.6 | 2117.0 | 1889.0 | 1539.6 | 1322.3 | 1192.1 |
| 67.5° | 1665.7 | 1688.7 | 1870.6 | 2545.2 | 2601.2 | 2438.6 | 2197.7 | 1756.6 | 1482.7 | 1303.1 |
| 70° | 1275.1 | 1299.8 | 1520.1 | 2523.5 | 2863.0 | 2790.2 | 2579.5 | 2032.7 | 1648.9 | 1380.0 |
| 72.5° | 910.0 | 922.7 | 1096.3 | 2330.4 | 2970.4 | 3029.8 | 2860.8 | 2294.2 | 1733.8 | 1337.4 |
| 75° | 639.5 | 637.3 | 752.4 | 1876.6 | 2803.1 | 3000.6 | 2762.2 | 2152.7 | 1569.0 | 1062.5 |
| 77.5° | 278.5 | 279.1 | 375.8 | 1139.7 | 2237.3 | 2562.8 | 2296.1 | 1348.4 | 1093.8 | 563.1 |
| 80° | 72.2 | 74.4 | 137.9 | 453.8 | 1347.0 | 1691.5 | 1400.3 | 592.8 | 505.4 | 137.3 |
| 82.5° | 25.5 | 27.2 | 63.5 | 142.6 | 496.9 | 775.7 | 623.5 | 189.5 | 131.8 | 39.3 |
| 85° | 7.4 | 8.8 | 34.1 | 43.7 | 102.7 | 219.2 | 151.4 | 36.8 | 32.4 | 20.3 |
| 87.5° | 0.0 | 1.1 | 6.9 | 6.0 | 6.0 | 4.1 | 7.7 | 4.1 | 5.2 | 2.5 |
| 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° |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 482.9 | 0° | 482.9 | 482.9 | 482.9 | 482.9 | 482.9 | 482.9 | 482.9 | 482.9 | 482.9 | 482.9 |
| 487.0 | 2.5° | 485.4 | 483.4 | 479.3 | 474.9 | 470.8 | 467.0 | 465.9 | 461.7 | 459.8 | 460.1 |
| 490.9 | 5° | 487.8 | 484.3 | 476.3 | 466.7 | 456.8 | 445.5 | 436.2 | 423.0 | 411.7 | 410.4 |
| 498.3 | 7.5° | 494.4 | 488.7 | 475.8 | 457.1 | 432.4 | 401.3 | 372.5 | 343.9 | 327.7 | 318.9 |
| 509.3 | 10° | 504.6 | 496.9 | 477.1 | 441.4 | 389.0 | 333.5 | 289.8 | 253.8 | 235.4 | 226.9 |
| 522.7 | 12.5° | 516.7 | 508.2 | 479.3 | 414.8 | 332.9 | 260.1 | 212.9 | 190.9 | 187.1 | 186.5 |
| 539.2 | 15° | 533.7 | 524.4 | 481.8 | 378.8 | 272.2 | 198.0 | 176.3 | 176.6 | 179.6 | 181.3 |
| 557.1 | 17.5° | 552.7 | 543.3 | 478.2 | 334.8 | 212.3 | 169.2 | 168.7 | 171.1 | 175.5 | 177.2 |
| 573.5 | 20° | 571.9 | 563.1 | 465.6 | 283.2 | 171.7 | 161.2 | 163.4 | 166.2 | 170.6 | 172.8 |
| 589.7 | 22.5° | 591.7 | 584.0 | 445.5 | 228.3 | 154.9 | 155.5 | 158.2 | 161.0 | 165.9 | 168.4 |
| 605.7 | 25° | 612.8 | 606.2 | 418.9 | 182.9 | 147.8 | 149.4 | 153.0 | 156.3 | 161.5 | 164.5 |
| 619.1 | 27.5° | 634.2 | 629.3 | 388.7 | 152.7 | 141.2 | 143.1 | 147.2 | 151.6 | 156.8 | 160.4 |
| 630.9 | 30° | 657.6 | 654.8 | 364.5 | 141.5 | 134.9 | 136.5 | 141.2 | 146.1 | 151.9 | 156.3 |
| 642.8 | 32.5° | 681.5 | 680.9 | 352.7 | 149.7 | 129.1 | 130.2 | 134.3 | 139.3 | 146.4 | 151.9 |
| 652.6 | 35° | 705.1 | 706.2 | 345.8 | 173.1 | 127.2 | 124.2 | 126.9 | 131.3 | 139.8 | 146.7 |
| 663.9 | 37.5° | 735.3 | 738.1 | 345.6 | 198.3 | 131.8 | 118.1 | 120.0 | 123.1 | 130.5 | 138.4 |
| 681.5 | 40° | 780.4 | 794.9 | 363.1 | 220.0 | 140.1 | 112.6 | 113.2 | 113.7 | 117.6 | 124.2 |
| 704.8 | 42.5° | 840.3 | 882.8 | 426.6 | 234.9 | 143.4 | 107.7 | 105.8 | 102.7 | 102.2 | 105.8 |
| 736.7 | 45° | 914.7 | 989.1 | 538.1 | 243.1 | 140.1 | 102.2 | 97.0 | 89.0 | 86.0 | 88.4 |
| 779.8 | 47.5° | 1002.3 | 1105.6 | 670.2 | 245.0 | 134.6 | 95.3 | 86.0 | 75.5 | 73.1 | 73.9 |
| 837.8 | 50° | 1087.7 | 1192.9 | 786.4 | 229.1 | 125.5 | 86.5 | 73.9 | 65.1 | 63.5 | 63.7 |
| 906.2 | 52.5° | 1163.3 | 1222.9 | 819.4 | 191.5 | 113.4 | 75.8 | 63.5 | 57.4 | 56.3 | 56.3 |
| 981.7 | 55° | 1213.3 | 1190.5 | 730.7 | 146.4 | 98.3 | 64.8 | 54.4 | 51.4 | 50.8 | 50.5 |
| 1066.0 | 57.5° | 1223.7 | 1085.0 | 551.8 | 105.8 | 76.9 | 54.7 | 48.3 | 46.7 | 45.6 | 44.5 |
| 1152.6 | 60° | 1186.4 | 909.2 | 351.3 | 73.9 | 57.7 | 46.7 | 42.9 | 41.8 | 39.6 | 37.4 |
| 1233.9 | 62.5° | 1105.6 | 686.7 | 194.5 | 51.4 | 46.4 | 39.8 | 37.9 | 36.5 | 32.4 | 28.8 |
| 1298.4 | 65° | 997.1 | 456.5 | 86.0 | 40.1 | 37.9 | 33.5 | 32.4 | 30.5 | 25.5 | 21.4 |
| 1322.9 | 67.5° | 888.0 | 262.9 | 38.7 | 32.1 | 30.5 | 27.5 | 26.6 | 25.3 | 21.7 | 17.9 |
| 1260.5 | 70° | 763.6 | 133.2 | 26.6 | 25.5 | 23.6 | 20.9 | 21.7 | 21.4 | 17.9 | 14.6 |
| 1028.1 | 72.5° | 568.6 | 66.2 | 20.1 | 19.2 | 17.0 | 14.8 | 17.9 | 17.6 | 14.0 | 11.0 |
| 634.0 | 75° | 321.9 | 32.7 | 14.6 | 13.5 | 10.2 | 11.0 | 14.3 | 13.5 | 9.6 | 7.1 |
| 267.5 | 77.5° | 127.7 | 16.8 | 9.6 | 8.2 | 6.0 | 7.4 | 10.4 | 9.1 | 4.9 | 3.0 |
| 51.1 | 80° | 29.4 | 8.2 | 4.9 | 3.6 | 2.7 | 4.4 | 5.5 | 3.3 | 1.4 | 0.3 |
| 13.7 | 82.5° | 8.2 | 3.6 | 1.6 | 1.4 | 1.4 | 1.6 | 1.4 | 0.5 | 0.0 | 0.0 |
| 3.6 | 85° | 2.7 | 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 |

(END O

| <u>180°</u> |
|-------------|
| 482.9 |
| 459.8 |
| 409.6 |
| 318.4 |
| 225.2 |
| 186.2 |
| 181.0 |
| 176.9 |
| 172.8 |
| 168.4 |
| 164.5 |
| 160.7 |
| 156.8 |
| 152.4 |
| 147.8 |
| 139.8 |
| 126.4 |
| 107.7 |
| 88.4 |
| 73.6 |
| 63.7 |
| 56.0 |
| 50.0 |
| 43.9 |
| 36.5 |
| 27.7 |
| 20.6 |
| 17.3 |
| 14.0 |
| 10.4 |
| 6.6 |
| 2.7 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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