

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: P944910

Luminaire Tested: **GALN-SB1A-735-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3736 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

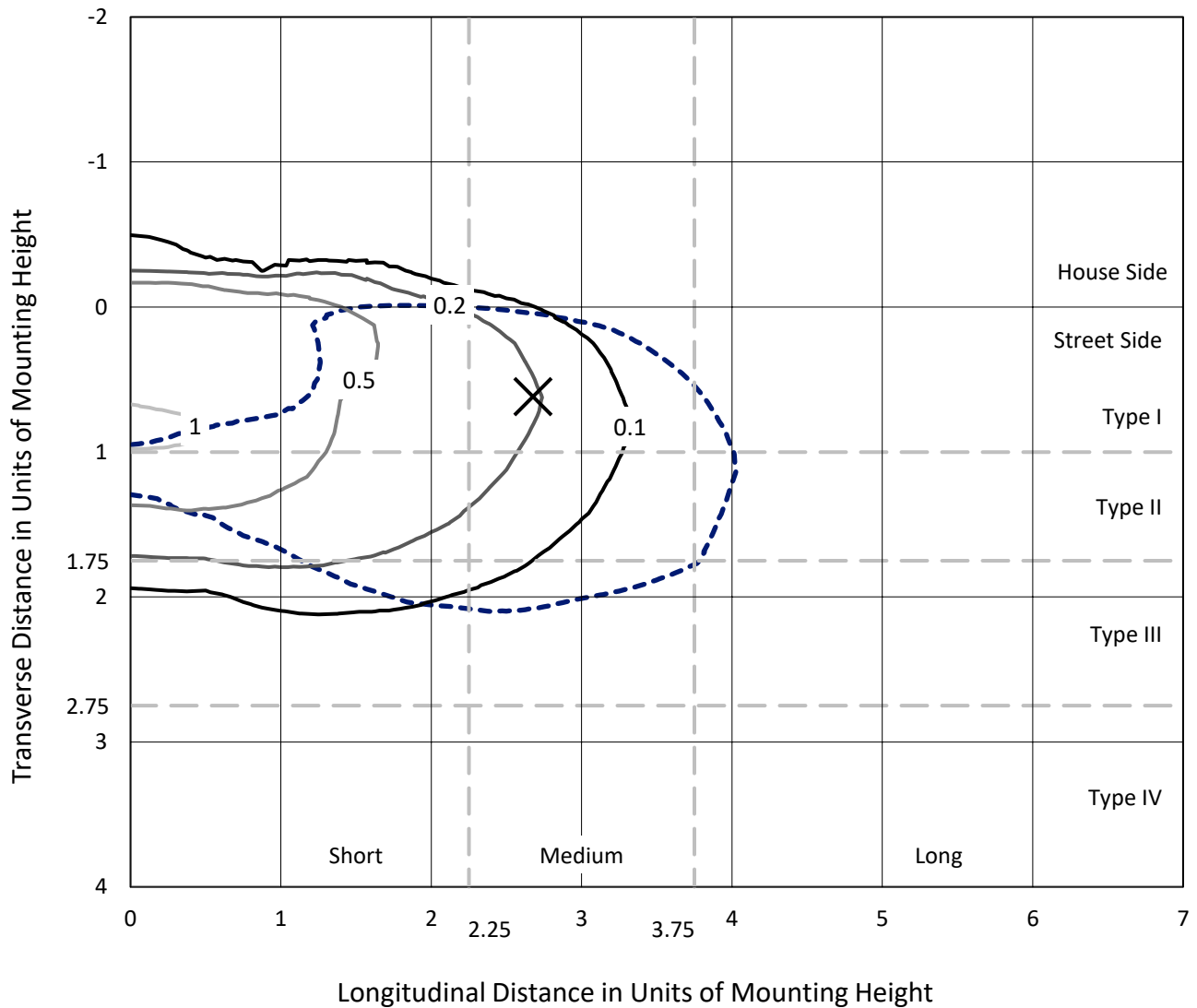
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

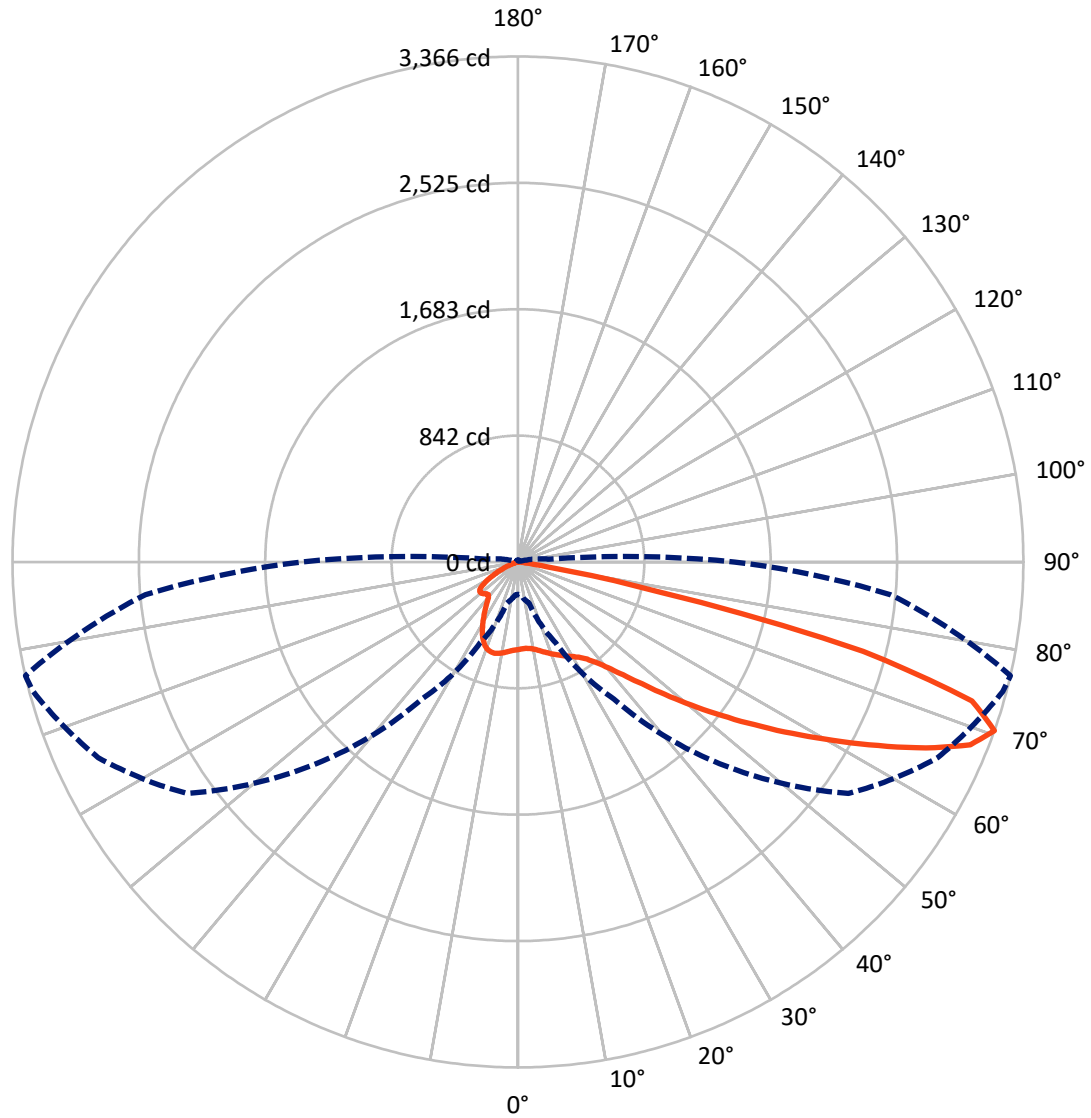
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 393.8 | 0.0 | 393.8 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 3342.2 | 0.0 | 3342.2 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 3736.0 | 0.0 | 3736.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 50.2 | 1.3 |
| 10°-20° | 119.2 | 3.2 |
| 20°-30° | 184.4 | 4.9 |
| 30°-40° | 334.6 | 9.0 |
| 40°-50° | 631.6 | 16.9 |
| 50°-60° | 912.7 | 24.4 |
| 60°-70° | 971.5 | 26.0 |
| 70°-80° | 514.8 | 13.8 |
| 80°-90° | 16.9 | 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° | 3736.0 | 100.0 |
| 0°-180° | 3736.0 | 100.0 |

Coefficient of Utilization



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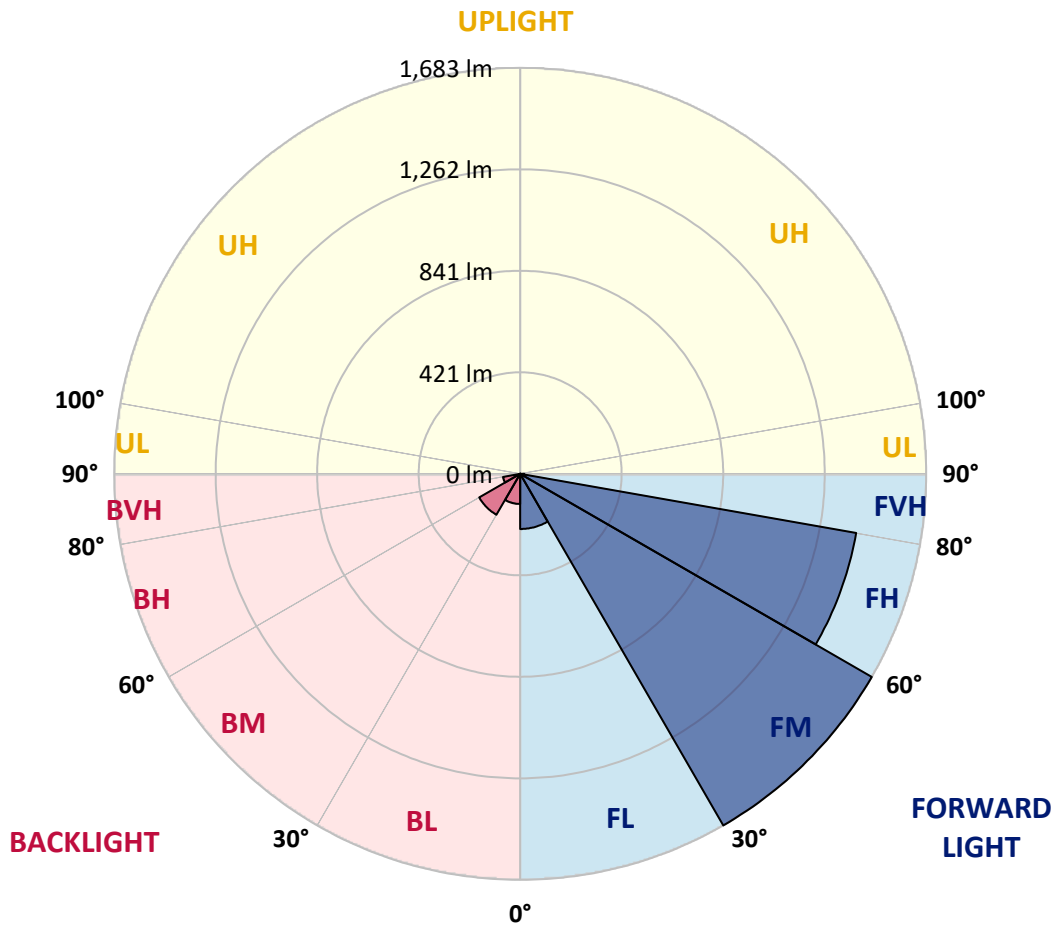
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 228.7 | 6.1 | | | |
| FM (30°-60°) | 1682.9 | 45.0 | | | |
| FH (60°-80°) | 1414.1 | 37.9 | | | G1/1800 |
| FVH (80°-90°) | 16.4 | 0.4 | | | G1/100 |
| BL (0°-30°) | 125.1 | 3.3 | B1/500 | | |
| BM (30°-60°) | 196.1 | 5.2 | B0/220 | | |
| BH (60°-80°) | 72.2 | 1.9 | 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 III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 |
| 2.5° | 547.1 | 552.1 | 551.4 | 554.7 | 555.9 | 560.6 | 565.3 | 571.7 | 578.7 | 578.5 |
| 5° | 516.2 | 521.2 | 522.4 | 526.8 | 532.5 | 539.8 | 549.5 | 562.2 | 575.4 | 577.6 |
| 7.5° | 479.6 | 484.8 | 487.9 | 496.9 | 507.3 | 522.4 | 538.2 | 556.8 | 578.7 | 581.8 |
| 10° | 443.1 | 447.8 | 451.8 | 464.5 | 481.1 | 503.5 | 529.2 | 556.1 | 585.6 | 590.1 |
| 12.5° | 420.4 | 424.9 | 429.4 | 440.5 | 461.0 | 488.4 | 523.3 | 559.4 | 596.9 | 603.3 |
| 15° | 412.4 | 416.4 | 420.0 | 429.9 | 449.0 | 480.1 | 522.1 | 566.2 | 611.3 | 619.8 |
| 17.5° | 413.6 | 415.7 | 418.1 | 425.6 | 444.3 | 476.3 | 524.2 | 578.0 | 628.3 | 635.8 |
| 20° | 420.4 | 421.6 | 421.8 | 427.0 | 443.5 | 475.9 | 528.5 | 589.4 | 644.3 | 654.5 |
| 22.5° | 429.2 | 429.6 | 429.2 | 432.7 | 448.0 | 479.4 | 534.1 | 603.0 | 662.3 | 671.7 |
| 25° | 470.0 | 461.0 | 449.7 | 442.8 | 455.6 | 486.3 | 542.6 | 621.4 | 681.8 | 691.0 |
| 27.5° | 596.7 | 571.0 | 530.4 | 484.8 | 471.2 | 496.2 | 554.4 | 640.1 | 701.7 | 709.9 |
| 30° | 802.4 | 768.7 | 699.8 | 597.1 | 521.2 | 516.9 | 569.8 | 658.7 | 722.7 | 731.6 |
| 32.5° | 1008.6 | 1000.3 | 920.8 | 778.8 | 633.7 | 563.2 | 595.3 | 684.0 | 750.5 | 757.6 |
| 35° | 1217.2 | 1200.4 | 1135.3 | 994.9 | 807.1 | 657.3 | 637.7 | 717.0 | 787.1 | 795.1 |
| 37.5° | 1376.9 | 1366.7 | 1326.4 | 1210.8 | 1012.8 | 802.6 | 710.4 | 768.2 | 840.1 | 849.1 |
| 40° | 1518.0 | 1513.3 | 1499.6 | 1423.4 | 1242.9 | 992.8 | 823.4 | 847.5 | 913.8 | 924.4 |
| 42.5° | 1628.9 | 1640.0 | 1647.7 | 1626.5 | 1480.0 | 1209.9 | 975.3 | 958.8 | 1016.4 | 1027.2 |
| 45° | 1742.3 | 1746.1 | 1777.5 | 1808.2 | 1715.5 | 1436.8 | 1146.6 | 1089.3 | 1144.0 | 1157.5 |
| 47.5° | 1815.2 | 1830.3 | 1885.6 | 1939.6 | 1913.4 | 1661.9 | 1330.6 | 1243.4 | 1292.0 | 1317.2 |
| 50° | 1820.7 | 1849.2 | 1925.2 | 2019.3 | 2057.6 | 1876.1 | 1530.7 | 1418.9 | 1470.6 | 1498.4 |
| 52.5° | 1730.3 | 1774.7 | 1892.4 | 2030.2 | 2135.4 | 2057.6 | 1737.6 | 1594.4 | 1660.7 | 1697.0 |
| 55° | 1326.6 | 1384.7 | 1769.0 | 1971.2 | 2138.5 | 2195.1 | 1939.1 | 1777.3 | 1872.6 | 1913.6 |
| 57.5° | 1155.8 | 1185.1 | 1390.8 | 1868.8 | 2081.6 | 2250.5 | 2121.3 | 1951.4 | 2103.1 | 2154.0 |
| 60° | 961.7 | 1000.1 | 1166.4 | 1701.3 | 2004.5 | 2256.0 | 2282.2 | 2176.0 | 2352.9 | 2410.3 |
| 62.5° | 653.5 | 695.3 | 860.7 | 1413.5 | 1899.0 | 2253.4 | 2414.0 | 2407.2 | 2630.6 | 2692.2 |
| 65° | 404.9 | 431.0 | 540.0 | 1154.2 | 1751.5 | 2256.2 | 2552.1 | 2688.0 | 2923.7 | 2986.2 |
| 67.5° | 319.9 | 332.0 | 388.8 | 886.2 | 1497.5 | 2192.5 | 2689.8 | 2952.0 | 3199.5 | 3249.0 |
| 70° | 214.9 | 222.2 | 282.9 | 594.1 | 1114.1 | 1898.5 | 2687.2 | 3084.6 | 3341.5 | 3366.3 |
| 72.5° | 113.2 | 118.9 | 165.4 | 275.1 | 672.9 | 1349.5 | 2265.2 | 2926.0 | 3200.2 | 3162.9 |
| 75° | 56.6 | 66.1 | 111.4 | 139.7 | 287.4 | 752.6 | 1406.6 | 2306.9 | 2518.8 | 2374.4 |
| 77.5° | 42.9 | 51.9 | 92.0 | 92.0 | 100.0 | 253.4 | 595.7 | 1258.2 | 1160.5 | 966.4 |
| 80° | 27.4 | 35.4 | 80.5 | 69.6 | 41.8 | 64.4 | 155.2 | 352.5 | 246.5 | 187.6 |
| 82.5° | 16.0 | 23.1 | 67.0 | 46.0 | 23.4 | 23.8 | 43.9 | 75.0 | 63.9 | 49.8 |
| 85° | 6.4 | 15.1 | 46.0 | 18.2 | 9.2 | 5.9 | 13.2 | 16.0 | 13.2 | 9.9 |
| 87.5° | 0.0 | 3.5 | 8.0 | 0.0 | 0.7 | 0.5 | 0.9 | 1.2 | 1.2 | 0.9 |
| 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° |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 582.7 | 0° | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 |
| 583.2 | 2.5° | 585.3 | 585.8 | 587.2 | 587.5 | 584.2 | 579.9 | 578.3 | 577.6 | 574.7 | 574.5 |
| 587.0 | 5° | 592.4 | 594.5 | 592.4 | 586.3 | 571.7 | 551.1 | 535.6 | 522.8 | 511.3 | 507.7 |
| 600.0 | 7.5° | 606.6 | 608.7 | 602.3 | 578.3 | 541.5 | 500.6 | 463.8 | 437.9 | 414.5 | 405.8 |
| 615.8 | 10° | 626.9 | 629.7 | 609.6 | 561.0 | 495.9 | 430.3 | 368.1 | 324.2 | 290.0 | 276.0 |
| 637.2 | 12.5° | 652.3 | 653.5 | 613.7 | 534.9 | 436.7 | 343.0 | 254.8 | 207.9 | 177.4 | 166.1 |
| 663.2 | 15° | 680.4 | 678.8 | 614.1 | 499.2 | 356.0 | 242.5 | 166.3 | 136.6 | 124.3 | 120.6 |
| 689.2 | 17.5° | 709.9 | 703.1 | 604.7 | 447.8 | 267.5 | 165.9 | 123.4 | 116.3 | 114.2 | 113.2 |
| 714.9 | 20° | 738.9 | 723.6 | 587.5 | 380.6 | 192.0 | 123.9 | 112.1 | 109.9 | 108.8 | 108.3 |
| 740.8 | 22.5° | 765.4 | 739.2 | 558.0 | 302.5 | 139.4 | 109.5 | 105.9 | 104.0 | 101.9 | 101.0 |
| 766.1 | 25° | 791.1 | 748.1 | 516.5 | 229.6 | 111.6 | 102.4 | 99.6 | 96.0 | 93.2 | 92.0 |
| 793.2 | 27.5° | 816.1 | 753.8 | 464.5 | 169.9 | 99.6 | 95.8 | 90.6 | 85.6 | 83.5 | 83.0 |
| 822.2 | 30° | 842.7 | 755.7 | 405.6 | 126.7 | 92.2 | 87.5 | 80.0 | 74.3 | 73.1 | 73.4 |
| 861.4 | 32.5° | 875.3 | 758.5 | 346.1 | 103.8 | 86.1 | 77.6 | 68.7 | 62.8 | 61.8 | 62.8 |
| 918.5 | 35° | 914.2 | 764.2 | 288.8 | 95.6 | 80.7 | 67.5 | 57.8 | 52.8 | 51.9 | 52.6 |
| 991.6 | 37.5° | 967.1 | 773.4 | 235.2 | 93.9 | 76.2 | 59.0 | 48.6 | 44.6 | 44.6 | 44.8 |
| 1081.3 | 40° | 1037.4 | 797.9 | 187.3 | 92.7 | 73.8 | 52.6 | 41.1 | 39.4 | 40.1 | 40.6 |
| 1195.5 | 42.5° | 1123.0 | 850.1 | 155.0 | 91.3 | 71.3 | 49.8 | 37.3 | 36.6 | 37.7 | 38.2 |
| 1332.3 | 45° | 1219.1 | 916.1 | 143.7 | 88.9 | 68.9 | 51.7 | 35.6 | 34.7 | 36.1 | 36.3 |
| 1485.7 | 47.5° | 1318.4 | 980.8 | 142.3 | 86.4 | 66.5 | 54.5 | 35.2 | 33.0 | 34.7 | 34.9 |
| 1649.4 | 50° | 1418.9 | 1023.0 | 143.7 | 82.3 | 62.8 | 54.5 | 35.4 | 31.4 | 32.8 | 33.5 |
| 1819.3 | 52.5° | 1520.1 | 1042.3 | 142.7 | 73.6 | 56.2 | 51.2 | 35.4 | 30.0 | 31.4 | 31.9 |
| 2002.8 | 55° | 1618.2 | 1038.6 | 128.3 | 60.6 | 47.7 | 45.3 | 34.4 | 28.8 | 29.7 | 30.0 |
| 2176.2 | 57.5° | 1695.9 | 986.0 | 101.7 | 47.2 | 38.7 | 37.7 | 31.4 | 27.4 | 28.1 | 27.8 |
| 2335.2 | 60° | 1736.4 | 870.3 | 72.7 | 36.3 | 30.4 | 29.7 | 27.6 | 25.5 | 26.0 | 24.8 |
| 2470.0 | 62.5° | 1736.9 | 717.5 | 48.6 | 28.8 | 24.3 | 23.6 | 23.6 | 22.9 | 22.4 | 20.1 |
| 2574.2 | 65° | 1699.9 | 547.8 | 32.3 | 22.9 | 19.6 | 18.4 | 19.8 | 19.6 | 17.9 | 14.6 |
| 2606.1 | 67.5° | 1615.9 | 359.1 | 24.5 | 17.9 | 15.1 | 14.4 | 15.8 | 16.5 | 15.3 | 12.3 |
| 2490.0 | 70° | 1443.2 | 209.0 | 20.3 | 13.9 | 11.3 | 10.6 | 12.7 | 14.2 | 12.7 | 9.9 |
| 2128.3 | 72.5° | 1198.8 | 112.8 | 16.5 | 10.4 | 7.8 | 7.1 | 10.1 | 11.6 | 10.1 | 7.3 |
| 1365.6 | 75° | 777.9 | 60.4 | 12.7 | 6.8 | 4.0 | 4.5 | 7.5 | 8.5 | 7.1 | 4.7 |
| 400.8 | 77.5° | 261.2 | 26.7 | 8.0 | 3.3 | 1.9 | 1.9 | 4.5 | 5.2 | 3.3 | 1.7 |
| 72.9 | 80° | 58.3 | 11.1 | 3.3 | 1.4 | 0.7 | 0.7 | 0.9 | 0.9 | 0.5 | 0.0 |
| 22.4 | 82.5° | 19.1 | 4.5 | 1.4 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5.7 | 85° | 7.3 | 1.7 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1.9 | 87.5° | 2.8 | 0.2 | 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> |
| 582.7 |
| 575.0 |
| 505.6 |
| 402.3 |
| 270.1 |
| 162.6 |
| 120.6 |
| 113.0 |
| 107.8 |
| 100.7 |
| 91.5 |
| 82.6 |
| 73.4 |
| 62.5 |
| 52.4 |
| 44.6 |
| 40.6 |
| 38.2 |
| 36.6 |
| 35.2 |
| 33.7 |
| 31.9 |
| 30.0 |
| 27.8 |
| 24.5 |
| 19.3 |
| 14.2 |
| 12.0 |
| 9.4 |
| 7.1 |
| 4.2 |
| 1.4 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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