

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: P946527

Luminaire Tested: **GALN-SB2A-927-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946527
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-SB2A-927-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4546 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

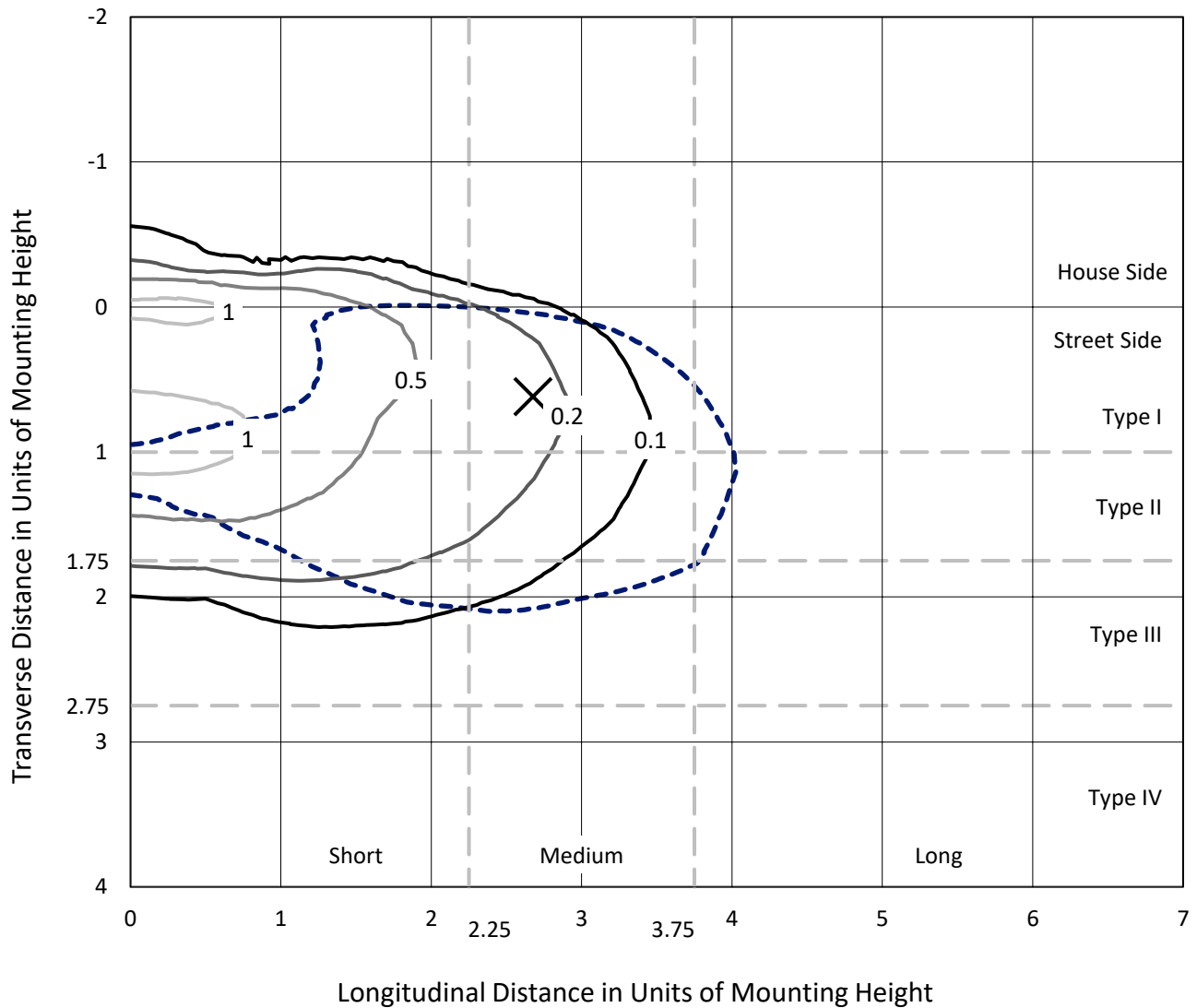
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

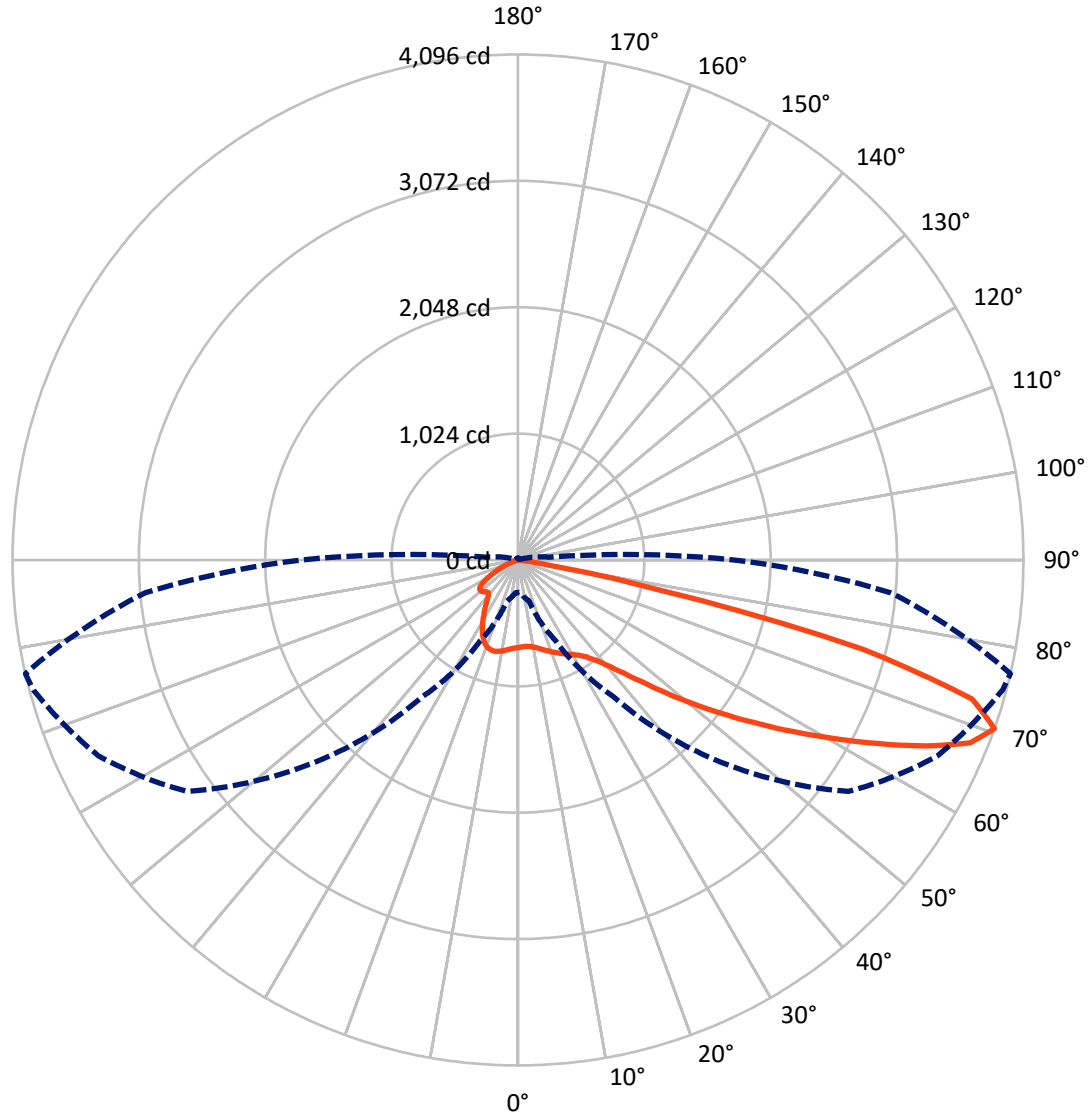
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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 | 479.2 | 0.0 | 479.2 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 4066.8 | 0.0 | 4066.8 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 4546.0 | 0.0 | 4546.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 61.1 | 1.3 |
| 10°-20° | 145.1 | 3.2 |
| 20°-30° | 224.4 | 4.9 |
| 30°-40° | 407.2 | 9.0 |
| 40°-50° | 768.6 | 16.9 |
| 50°-60° | 1110.5 | 24.4 |
| 60°-70° | 1182.1 | 26.0 |
| 70°-80° | 626.4 | 13.8 |
| 80°-90° | 20.6 | 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° | 4546.0 | 100.0 |
| 0°-180° | 4546.0 | 100.0 |

Coefficient of Utilization



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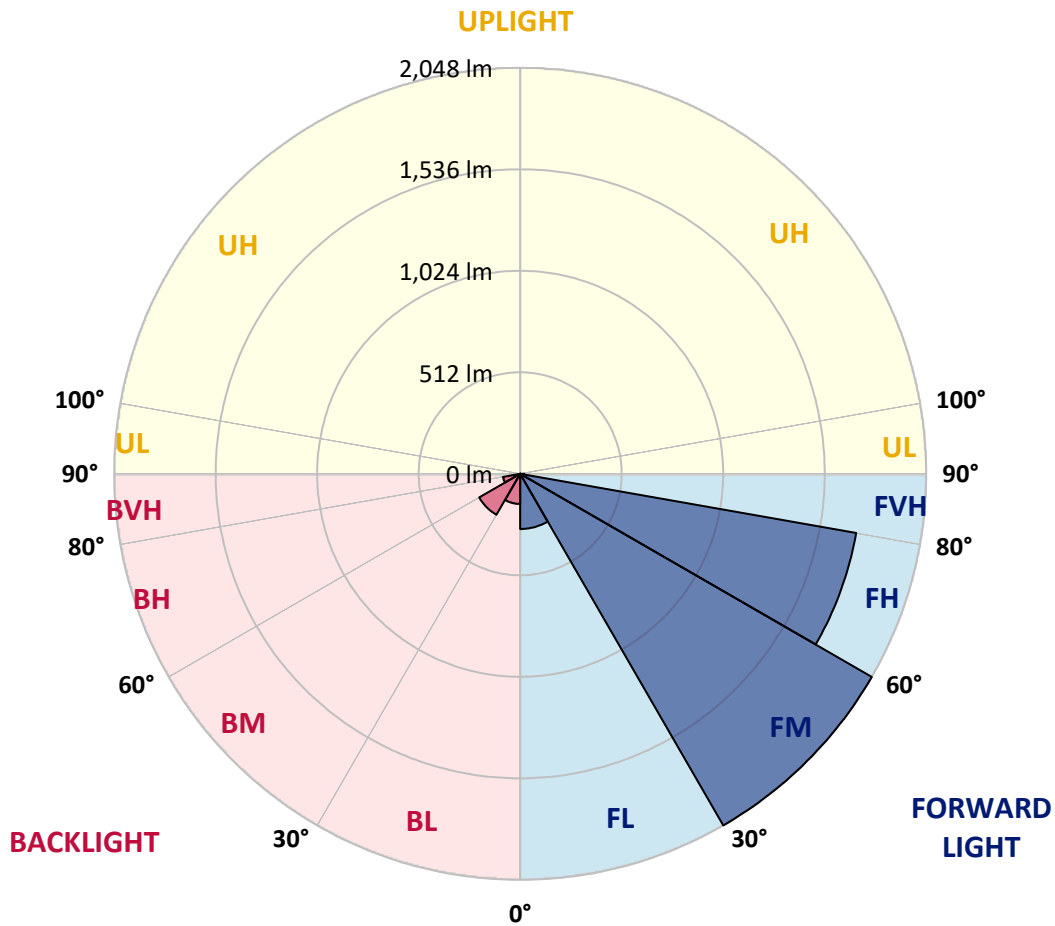
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 278.3 | 6.1 | | | |
| FM (30°-60°) | 2047.7 | 45.0 | | | |
| FH (60°-80°) | 1720.7 | 37.9 | | | G1/1800 |
| FVH (80°-90°) | 20.0 | 0.4 | | | G1/100 |
| BL (0°-30°) | 152.3 | 3.3 | B1/500 | | |
| BM (30°-60°) | 238.6 | 5.2 | B1/1000 | | |
| BH (60°-80°) | 87.8 | 1.9 | 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 III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 709.1 | 709.1 | 709.1 | 709.1 | 709.1 | 709.1 | 709.1 | 709.1 | 709.1 | 709.1 |
| 2.5° | 665.7 | 671.8 | 670.9 | 674.9 | 676.4 | 682.1 | 687.8 | 695.6 | 704.2 | 703.9 |
| 5° | 628.1 | 634.2 | 635.6 | 641.1 | 647.9 | 656.8 | 668.6 | 684.1 | 700.2 | 702.8 |
| 7.5° | 583.6 | 590.0 | 593.7 | 604.6 | 617.2 | 635.6 | 654.8 | 677.5 | 704.2 | 707.9 |
| 10° | 539.1 | 544.9 | 549.8 | 565.3 | 585.4 | 612.6 | 643.9 | 676.7 | 712.5 | 718.0 |
| 12.5° | 511.6 | 517.0 | 522.5 | 536.0 | 561.0 | 594.3 | 636.7 | 680.7 | 726.3 | 734.1 |
| 15° | 501.8 | 506.7 | 511.0 | 523.1 | 546.3 | 584.2 | 635.3 | 689.0 | 743.8 | 754.2 |
| 17.5° | 503.3 | 505.8 | 508.7 | 517.9 | 540.6 | 579.6 | 637.9 | 703.4 | 764.5 | 773.7 |
| 20° | 511.6 | 513.0 | 513.3 | 519.6 | 539.7 | 579.0 | 643.1 | 717.1 | 784.0 | 796.4 |
| 22.5° | 522.2 | 522.8 | 522.2 | 526.5 | 545.2 | 583.4 | 650.0 | 733.8 | 805.8 | 817.3 |
| 25° | 571.9 | 561.0 | 547.2 | 538.9 | 554.4 | 591.7 | 660.3 | 756.2 | 829.7 | 840.9 |
| 27.5° | 726.0 | 694.7 | 645.4 | 590.0 | 573.3 | 603.7 | 674.6 | 778.9 | 853.8 | 863.8 |
| 30° | 976.4 | 935.3 | 851.5 | 726.6 | 634.2 | 629.0 | 693.3 | 801.5 | 879.3 | 890.2 |
| 32.5° | 1227.3 | 1217.2 | 1120.5 | 947.7 | 771.1 | 685.3 | 724.3 | 832.3 | 913.2 | 921.8 |
| 35° | 1481.1 | 1460.7 | 1381.4 | 1210.6 | 982.1 | 799.8 | 776.0 | 872.4 | 957.7 | 967.5 |
| 37.5° | 1675.4 | 1663.1 | 1614.0 | 1473.3 | 1232.4 | 976.7 | 864.4 | 934.7 | 1022.3 | 1033.2 |
| 40° | 1847.1 | 1841.3 | 1824.7 | 1732.0 | 1512.4 | 1208.0 | 1001.9 | 1031.2 | 1111.9 | 1124.8 |
| 42.5° | 1982.0 | 1995.5 | 2005.0 | 1979.1 | 1800.9 | 1472.2 | 1186.8 | 1166.7 | 1236.8 | 1250.0 |
| 45° | 2120.1 | 2124.7 | 2162.9 | 2200.2 | 2087.4 | 1748.3 | 1395.2 | 1325.5 | 1392.1 | 1408.4 |
| 47.5° | 2208.8 | 2227.2 | 2294.4 | 2360.1 | 2328.2 | 2022.2 | 1619.1 | 1512.9 | 1572.1 | 1602.8 |
| 50° | 2215.4 | 2250.2 | 2342.6 | 2457.1 | 2503.6 | 2282.9 | 1862.6 | 1726.5 | 1789.4 | 1823.3 |
| 52.5° | 2105.5 | 2159.4 | 2302.7 | 2470.3 | 2598.4 | 2503.6 | 2114.4 | 1940.1 | 2020.8 | 2065.0 |
| 55° | 1614.3 | 1684.9 | 2152.5 | 2398.6 | 2602.1 | 2671.0 | 2359.5 | 2162.6 | 2278.6 | 2328.5 |
| 57.5° | 1406.4 | 1442.0 | 1692.4 | 2274.0 | 2532.9 | 2738.5 | 2581.2 | 2374.5 | 2559.1 | 2621.1 |
| 60° | 1170.1 | 1216.9 | 1419.3 | 2070.2 | 2439.1 | 2745.1 | 2776.9 | 2647.8 | 2863.1 | 2932.8 |
| 62.5° | 795.2 | 846.0 | 1047.3 | 1719.9 | 2310.7 | 2741.9 | 2937.4 | 2929.1 | 3201.0 | 3275.9 |
| 65° | 492.6 | 524.5 | 657.1 | 1404.4 | 2131.3 | 2745.4 | 3105.4 | 3270.7 | 3557.5 | 3633.6 |
| 67.5° | 389.3 | 403.9 | 473.1 | 1078.3 | 1822.1 | 2667.9 | 3273.0 | 3592.0 | 3893.1 | 3953.4 |
| 70° | 261.5 | 270.4 | 344.2 | 722.9 | 1355.6 | 2310.2 | 3269.9 | 3753.3 | 4066.0 | 4096.1 |
| 72.5° | 137.8 | 144.7 | 201.2 | 334.7 | 818.8 | 1642.1 | 2756.3 | 3560.4 | 3894.0 | 3848.6 |
| 75° | 68.9 | 80.4 | 135.5 | 170.0 | 349.7 | 915.8 | 1711.6 | 2807.1 | 3064.9 | 2889.2 |
| 77.5° | 52.2 | 63.2 | 112.0 | 112.0 | 121.7 | 308.3 | 724.9 | 1531.0 | 1412.2 | 1175.9 |
| 80° | 33.3 | 43.1 | 97.9 | 84.7 | 50.8 | 78.4 | 188.9 | 428.9 | 300.0 | 228.2 |
| 82.5° | 19.5 | 28.1 | 81.5 | 56.0 | 28.4 | 29.0 | 53.4 | 91.3 | 77.8 | 60.6 |
| 85° | 7.8 | 18.4 | 56.0 | 22.1 | 11.2 | 7.2 | 16.1 | 19.5 | 16.1 | 12.1 |
| 87.5° | 0.0 | 4.3 | 9.8 | 0.0 | 0.9 | 0.6 | 1.1 | 1.4 | 1.4 | 1.1 |
| 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° |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 709.1 | 0° | 709.1 | 709.1 | 709.1 | 709.1 | 709.1 | 709.1 | 709.1 | 709.1 | 709.1 | 709.1 |
| 709.7 | 2.5° | 712.3 | 712.8 | 714.5 | 714.8 | 710.8 | 705.6 | 703.6 | 702.8 | 699.3 | 699.0 |
| 714.3 | 5° | 720.9 | 723.4 | 720.9 | 713.4 | 695.6 | 670.6 | 651.7 | 636.2 | 622.1 | 617.8 |
| 730.1 | 7.5° | 738.1 | 740.7 | 732.9 | 703.6 | 658.9 | 609.2 | 564.4 | 532.8 | 504.4 | 493.8 |
| 749.3 | 10° | 762.8 | 766.2 | 741.8 | 682.7 | 603.4 | 523.6 | 447.8 | 394.5 | 352.8 | 335.9 |
| 775.4 | 12.5° | 793.8 | 795.2 | 746.7 | 650.8 | 531.4 | 417.4 | 310.0 | 252.9 | 215.9 | 202.1 |
| 807.0 | 15° | 827.9 | 825.9 | 747.3 | 607.5 | 433.2 | 295.1 | 202.4 | 166.2 | 151.3 | 146.7 |
| 838.6 | 17.5° | 863.8 | 855.5 | 735.8 | 544.9 | 325.6 | 201.8 | 150.1 | 141.5 | 138.9 | 137.8 |
| 869.9 | 20° | 899.1 | 880.5 | 714.8 | 463.1 | 233.7 | 150.7 | 136.4 | 133.8 | 132.3 | 131.8 |
| 901.4 | 22.5° | 931.3 | 899.4 | 679.0 | 368.0 | 169.7 | 133.2 | 128.9 | 126.6 | 124.0 | 122.9 |
| 932.2 | 25° | 962.6 | 910.3 | 628.4 | 279.3 | 135.8 | 124.6 | 121.1 | 116.8 | 113.4 | 112.0 |
| 965.2 | 27.5° | 993.0 | 917.2 | 565.3 | 206.7 | 121.1 | 116.6 | 110.2 | 104.2 | 101.6 | 101.1 |
| 1000.5 | 30° | 1025.5 | 919.5 | 493.5 | 154.2 | 112.2 | 106.5 | 97.3 | 90.4 | 89.0 | 89.3 |
| 1048.1 | 32.5° | 1065.1 | 923.0 | 421.2 | 126.3 | 104.8 | 94.5 | 83.5 | 76.4 | 75.2 | 76.4 |
| 1117.6 | 35° | 1112.4 | 929.9 | 351.4 | 116.3 | 98.2 | 82.1 | 70.3 | 64.3 | 63.2 | 64.0 |
| 1206.6 | 37.5° | 1176.8 | 941.1 | 286.2 | 114.3 | 92.7 | 71.8 | 59.1 | 54.3 | 54.3 | 54.5 |
| 1315.7 | 40° | 1262.3 | 970.9 | 227.9 | 112.8 | 89.9 | 64.0 | 50.0 | 47.9 | 48.8 | 49.4 |
| 1454.6 | 42.5° | 1366.5 | 1034.4 | 188.6 | 111.1 | 86.7 | 60.6 | 45.4 | 44.5 | 45.9 | 46.5 |
| 1621.2 | 45° | 1483.4 | 1114.7 | 174.8 | 108.2 | 83.8 | 62.9 | 43.3 | 42.2 | 43.9 | 44.2 |
| 1807.8 | 47.5° | 1604.2 | 1193.4 | 173.1 | 105.1 | 81.0 | 66.3 | 42.8 | 40.2 | 42.2 | 42.5 |
| 2007.0 | 50° | 1726.5 | 1244.8 | 174.8 | 100.2 | 76.4 | 66.3 | 43.1 | 38.2 | 39.9 | 40.8 |
| 2213.7 | 52.5° | 1849.7 | 1268.3 | 173.7 | 89.6 | 68.3 | 62.3 | 43.1 | 36.5 | 38.2 | 38.8 |
| 2437.0 | 55° | 1969.1 | 1263.7 | 156.2 | 73.8 | 58.0 | 55.1 | 41.9 | 35.0 | 36.2 | 36.5 |
| 2648.0 | 57.5° | 2063.5 | 1199.7 | 123.7 | 57.4 | 47.1 | 45.9 | 38.2 | 33.3 | 34.2 | 33.9 |
| 2841.5 | 60° | 2112.9 | 1059.0 | 88.4 | 44.2 | 37.0 | 36.2 | 33.6 | 31.0 | 31.6 | 30.1 |
| 3005.5 | 62.5° | 2113.5 | 873.0 | 59.1 | 35.0 | 29.6 | 28.7 | 28.7 | 27.8 | 27.3 | 24.4 |
| 3132.4 | 65° | 2068.4 | 666.6 | 39.3 | 27.8 | 23.8 | 22.4 | 24.1 | 23.8 | 21.8 | 17.8 |
| 3171.1 | 67.5° | 1966.2 | 436.9 | 29.9 | 21.8 | 18.4 | 17.5 | 19.2 | 20.1 | 18.7 | 14.9 |
| 3029.9 | 70° | 1756.1 | 254.4 | 24.7 | 16.9 | 13.8 | 12.9 | 15.5 | 17.2 | 15.5 | 12.1 |
| 2589.8 | 72.5° | 1458.7 | 137.2 | 20.1 | 12.6 | 9.5 | 8.6 | 12.3 | 14.1 | 12.3 | 8.9 |
| 1661.6 | 75° | 946.5 | 73.5 | 15.5 | 8.3 | 4.9 | 5.5 | 9.2 | 10.3 | 8.6 | 5.7 |
| 487.8 | 77.5° | 317.8 | 32.4 | 9.8 | 4.0 | 2.3 | 2.3 | 5.5 | 6.3 | 4.0 | 2.0 |
| 88.7 | 80° | 70.9 | 13.5 | 4.0 | 1.7 | 0.9 | 0.9 | 1.1 | 1.1 | 0.6 | 0.0 |
| 27.3 | 82.5° | 23.3 | 5.5 | 1.7 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6.9 | 85° | 8.9 | 2.0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2.3 | 87.5° | 3.4 | 0.3 | 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> |
| 709.1 |
| 699.6 |
| 615.2 |
| 489.5 |
| 328.7 |
| 197.8 |
| 146.7 |
| 137.5 |
| 131.2 |
| 122.6 |
| 111.4 |
| 100.5 |
| 89.3 |
| 76.1 |
| 63.7 |
| 54.3 |
| 49.4 |
| 46.5 |
| 44.5 |
| 42.8 |
| 41.1 |
| 38.8 |
| 36.5 |
| 33.9 |
| 29.9 |
| 23.5 |
| 17.2 |
| 14.6 |
| 11.5 |
| 8.6 |
| 5.2 |
| 1.7 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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