

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: P945147

Luminaire Tested: **GALN-SB1A-940-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-940-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2772 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

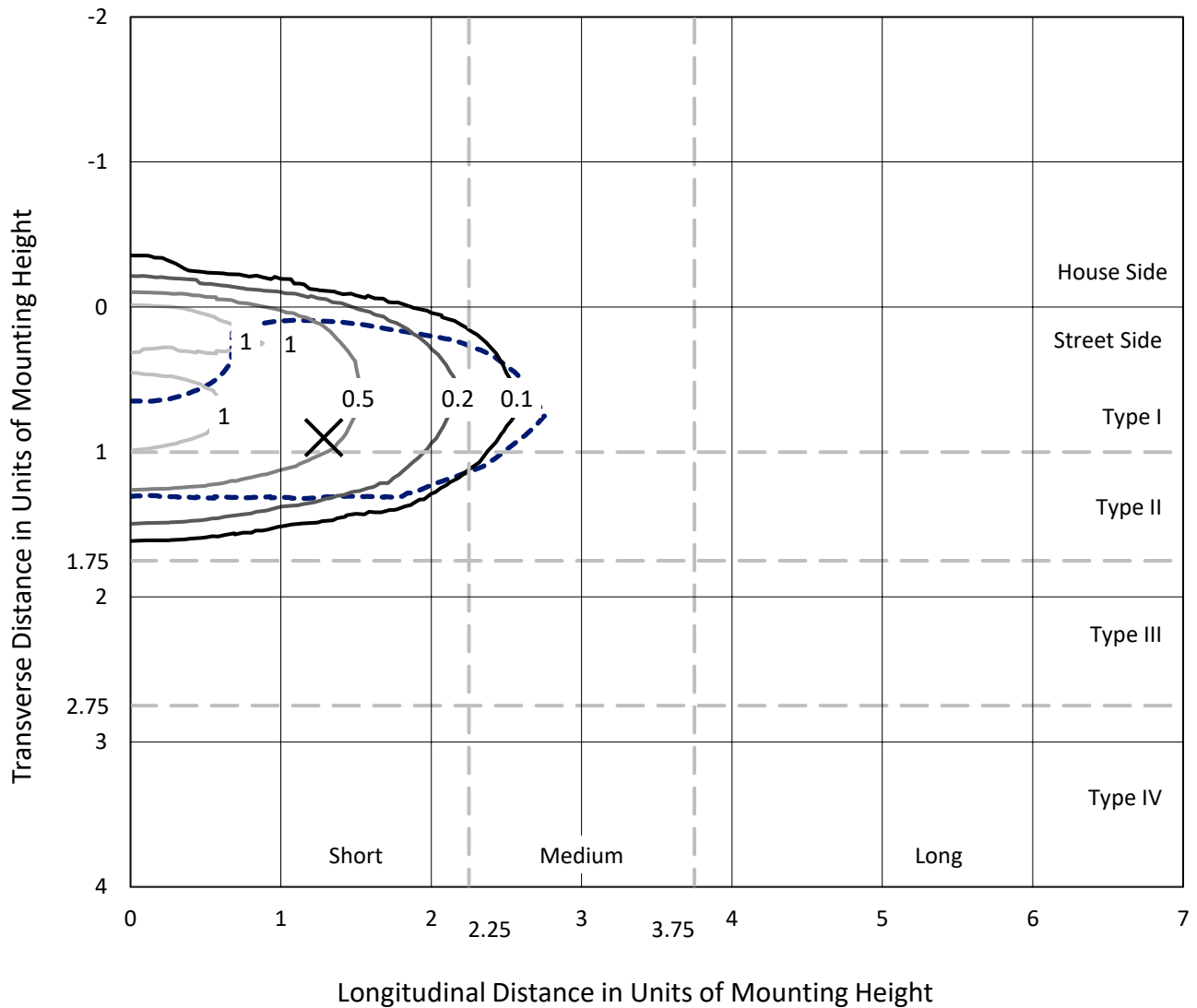
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

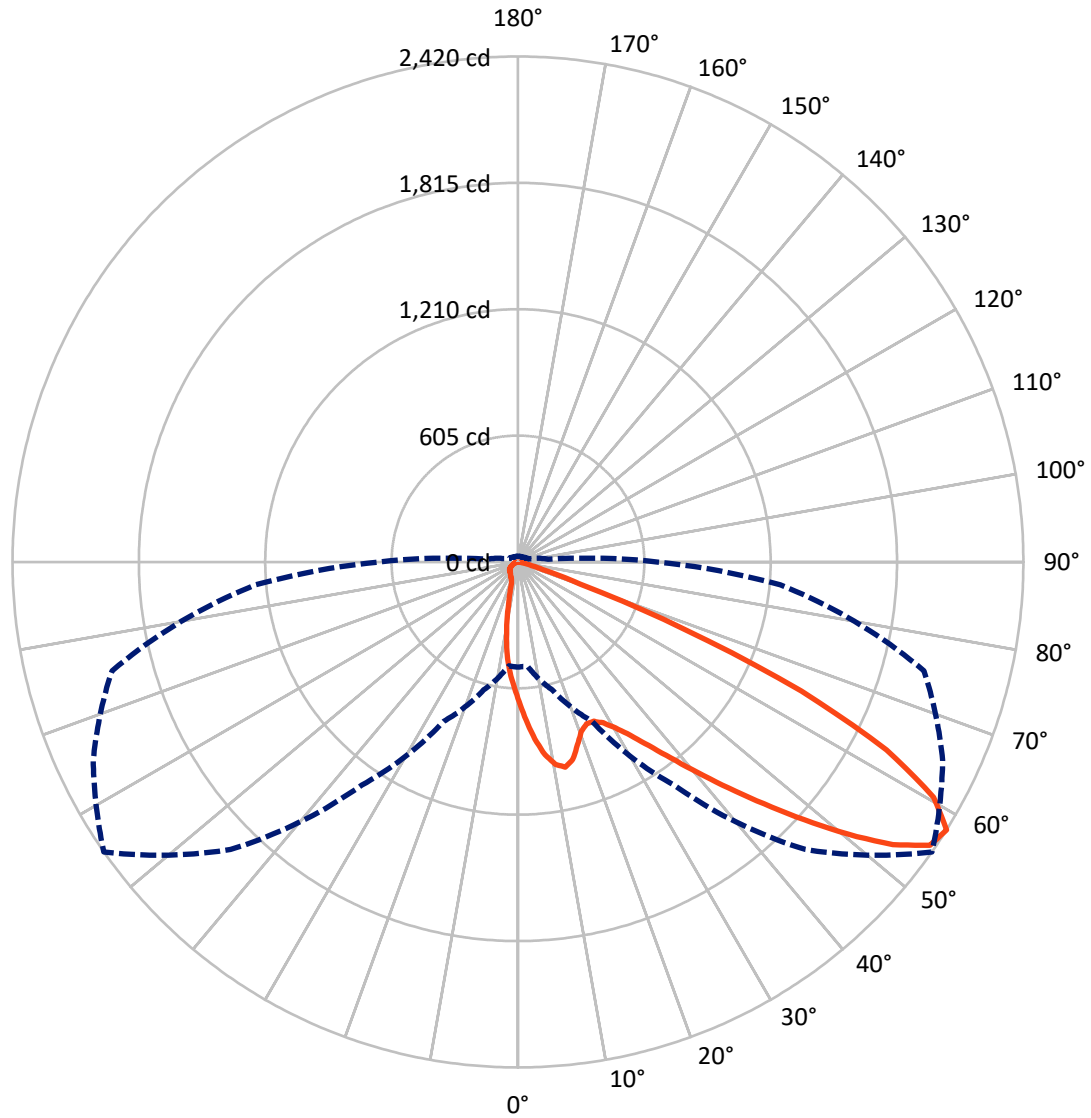
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 216.5 | 0.0 | 216.5 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 2555.5 | 0.0 | 2555.5 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 2772.0 | 0.0 | 2772.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 62.2 | 2.2 |
| 10°-20° | 150.1 | 5.4 |
| 20°-30° | 240.2 | 8.7 |
| 30°-40° | 406.6 | 14.7 |
| 40°-50° | 667.5 | 24.1 |
| 50°-60° | 733.6 | 26.5 |
| 60°-70° | 420.8 | 15.2 |
| 70°-80° | 86.0 | 3.1 |
| 80°-90° | 5.1 | 0.2 |
| 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° | 2772.0 | 100.0 |
| 0°-180° | 2772.0 | 100.0 |

Coefficient of Utilization



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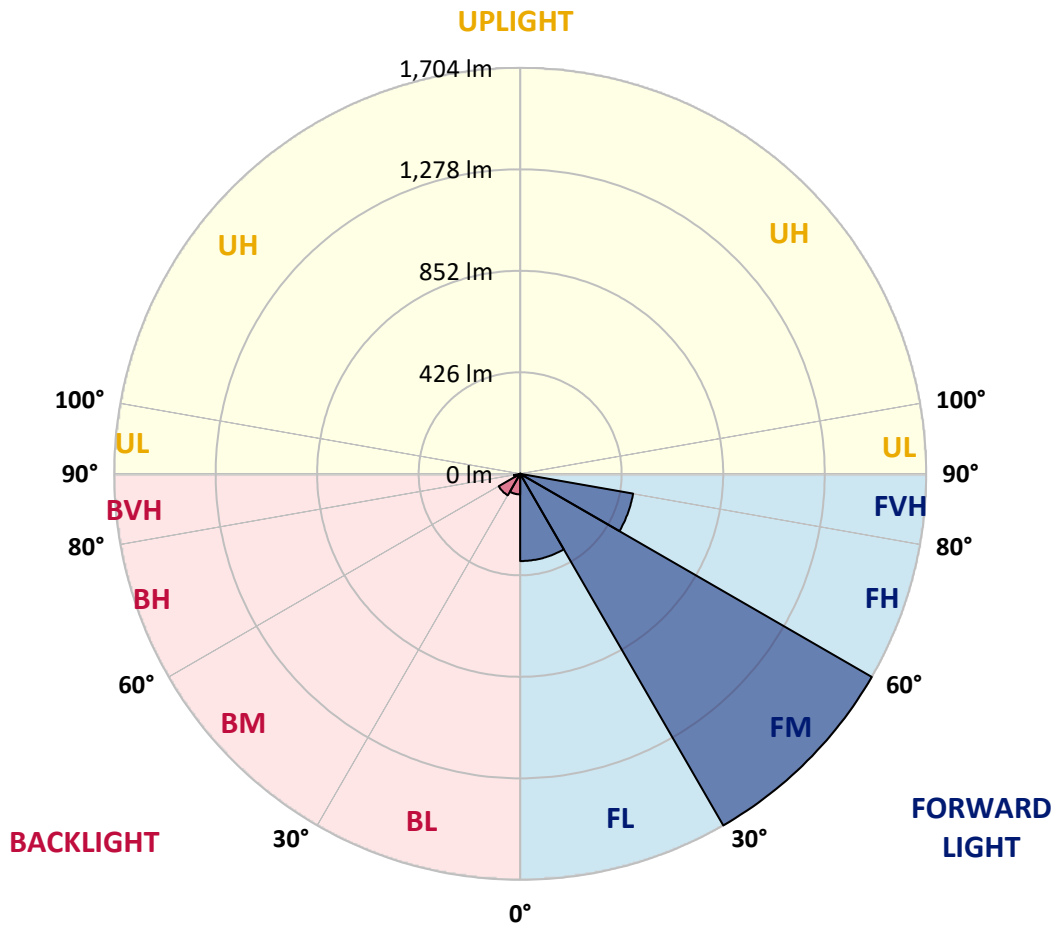
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 366.1 | 13.2 | | | |
| FM (30°-60°) | 1703.7 | 61.5 | | | |
| FH (60°-80°) | 481.0 | 17.4 | | | G0/660 |
| FVH (80°-90°) | 4.7 | 0.2 | | | G0/10 |
| BL (0°-30°) | 86.4 | 3.1 | B0/110 | | |
| BM (30°-60°) | 104.0 | 3.8 | B0/220 | | |
| BH (60°-80°) | 25.7 | 0.9 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 668.0 | 668.0 | 668.0 | 668.0 | 668.0 | 668.0 | 668.0 | 668.0 | 668.0 | 668.0 |
| 2.5° | 828.8 | 818.4 | 816.9 | 814.8 | 795.0 | 780.1 | 758.6 | 735.0 | 708.5 | 681.5 |
| 5° | 957.5 | 949.3 | 947.8 | 938.2 | 915.7 | 890.4 | 852.1 | 803.7 | 754.3 | 696.2 |
| 7.5° | 982.5 | 981.0 | 988.0 | 987.6 | 984.5 | 964.5 | 932.2 | 874.6 | 800.5 | 714.3 |
| 10° | 871.2 | 875.1 | 896.0 | 914.3 | 963.7 | 992.4 | 985.4 | 937.9 | 848.0 | 735.0 |
| 12.5° | 769.9 | 765.2 | 780.1 | 800.8 | 858.2 | 943.7 | 1007.4 | 990.7 | 902.3 | 758.4 |
| 15° | 706.3 | 704.4 | 712.8 | 722.3 | 766.1 | 852.2 | 981.8 | 1033.6 | 954.6 | 786.1 |
| 17.5° | 685.9 | 684.4 | 687.0 | 689.3 | 717.7 | 784.4 | 920.8 | 1059.9 | 1004.7 | 817.7 |
| 20° | 702.5 | 700.5 | 700.1 | 698.2 | 710.0 | 755.5 | 865.6 | 1061.8 | 1049.7 | 846.4 |
| 22.5° | 750.9 | 748.5 | 740.1 | 732.6 | 733.6 | 759.4 | 841.0 | 1043.0 | 1083.5 | 873.3 |
| 25° | 838.6 | 834.6 | 817.2 | 791.9 | 775.8 | 786.8 | 844.7 | 1018.2 | 1115.8 | 894.3 |
| 27.5° | 948.3 | 943.2 | 920.8 | 883.2 | 846.4 | 833.1 | 871.9 | 1001.1 | 1142.6 | 910.4 |
| 30° | 1055.8 | 1049.2 | 1027.1 | 997.9 | 944.2 | 902.2 | 921.0 | 1008.6 | 1174.6 | 927.1 |
| 32.5° | 1171.9 | 1165.6 | 1136.3 | 1100.1 | 1055.6 | 999.1 | 988.1 | 1045.4 | 1213.8 | 950.5 |
| 35° | 1318.7 | 1308.8 | 1267.3 | 1217.9 | 1170.7 | 1113.4 | 1079.1 | 1108.8 | 1265.9 | 986.3 |
| 37.5° | 1485.9 | 1472.5 | 1427.8 | 1359.6 | 1298.0 | 1233.9 | 1189.8 | 1196.0 | 1342.3 | 1034.1 |
| 40° | 1643.5 | 1631.3 | 1590.0 | 1525.7 | 1448.4 | 1370.7 | 1323.7 | 1310.0 | 1447.8 | 1092.4 |
| 42.5° | 1738.0 | 1727.0 | 1709.6 | 1682.4 | 1617.3 | 1538.0 | 1478.7 | 1449.1 | 1572.5 | 1162.1 |
| 45° | 1743.3 | 1733.7 | 1757.1 | 1788.8 | 1775.9 | 1723.1 | 1650.8 | 1596.6 | 1697.8 | 1227.6 |
| 47.5° | 1658.5 | 1652.0 | 1723.1 | 1833.5 | 1888.6 | 1910.8 | 1844.1 | 1731.8 | 1801.2 | 1274.6 |
| 50° | 1427.4 | 1425.0 | 1571.3 | 1774.1 | 1931.5 | 2075.2 | 2048.1 | 1857.6 | 1881.4 | 1298.9 |
| 52.5° | 1237.7 | 1229.0 | 1314.3 | 1583.6 | 1869.1 | 2161.7 | 2247.4 | 1981.0 | 1937.5 | 1303.5 |
| 55° | 938.7 | 931.0 | 1038.0 | 1265.0 | 1667.9 | 2130.9 | 2393.2 | 2108.4 | 1977.6 | 1291.7 |
| 57.5° | 503.6 | 498.8 | 634.0 | 842.0 | 1303.8 | 1946.3 | 2419.5 | 2243.1 | 2011.5 | 1260.4 |
| 60° | 196.1 | 195.2 | 245.8 | 408.5 | 792.4 | 1583.5 | 2286.7 | 2323.9 | 2032.7 | 1222.0 |
| 62.5° | 118.6 | 121.2 | 129.4 | 183.4 | 350.1 | 983.7 | 1980.5 | 2232.0 | 2046.9 | 1186.7 |
| 65° | 98.1 | 98.3 | 99.3 | 126.0 | 167.7 | 411.6 | 1491.0 | 1929.4 | 2011.8 | 1124.0 |
| 67.5° | 84.1 | 85.6 | 89.6 | 100.0 | 118.3 | 180.5 | 858.4 | 1494.6 | 1798.7 | 978.0 |
| 70° | 66.3 | 68.4 | 73.3 | 82.2 | 91.3 | 113.0 | 317.2 | 994.5 | 1374.1 | 737.2 |
| 72.5° | 55.9 | 55.7 | 58.3 | 66.8 | 72.5 | 79.5 | 122.0 | 557.2 | 798.6 | 351.9 |
| 75° | 43.2 | 45.0 | 48.2 | 55.9 | 59.3 | 57.6 | 66.1 | 203.6 | 286.1 | 106.7 |
| 77.5° | 33.8 | 35.2 | 38.1 | 45.6 | 49.1 | 40.9 | 38.1 | 72.8 | 92.0 | 38.3 |
| 80° | 15.2 | 16.4 | 26.0 | 33.7 | 40.0 | 28.2 | 20.7 | 37.3 | 40.9 | 17.4 |
| 82.5° | 2.7 | 4.6 | 15.2 | 17.8 | 20.5 | 18.3 | 10.8 | 19.3 | 20.0 | 7.0 |
| 85° | 0.2 | 0.3 | 5.3 | 6.5 | 8.2 | 6.0 | 3.2 | 7.7 | 6.7 | 2.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.9 | 1.0 | 1.4 | 1.0 | 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):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 668.0 | 0° | 668.0 | 668.0 | 668.0 | 668.0 | 668.0 | 668.0 | 668.0 | 668.0 | 668.0 | 668.0 |
| 669.5 | 2.5° | 657.2 | 632.9 | 609.4 | 590.0 | 578.8 | 559.6 | 547.0 | 544.9 | 539.6 | 544.2 |
| 671.2 | 5° | 644.6 | 601.2 | 557.2 | 517.9 | 485.6 | 443.9 | 412.8 | 399.6 | 388.2 | 392.1 |
| 675.7 | 7.5° | 638.6 | 570.0 | 501.7 | 434.5 | 365.4 | 298.8 | 249.2 | 228.5 | 212.8 | 215.0 |
| 680.6 | 10° | 630.6 | 537.7 | 430.6 | 328.0 | 235.5 | 169.7 | 135.5 | 122.9 | 115.9 | 116.1 |
| 688.0 | 12.5° | 624.4 | 499.1 | 348.0 | 222.4 | 143.4 | 108.4 | 97.8 | 94.7 | 92.6 | 92.8 |
| 699.1 | 15° | 621.3 | 453.6 | 266.5 | 148.2 | 102.6 | 91.8 | 89.2 | 87.9 | 86.5 | 86.3 |
| 711.4 | 17.5° | 616.2 | 403.0 | 195.0 | 108.2 | 89.7 | 86.0 | 83.8 | 82.2 | 80.5 | 80.2 |
| 722.0 | 20° | 608.5 | 345.6 | 142.6 | 91.4 | 84.1 | 81.2 | 78.1 | 76.1 | 74.0 | 73.7 |
| 728.7 | 22.5° | 594.3 | 284.9 | 109.6 | 84.6 | 80.0 | 76.7 | 73.0 | 70.6 | 68.5 | 68.2 |
| 725.4 | 25° | 568.0 | 228.0 | 92.3 | 80.3 | 76.4 | 72.5 | 68.4 | 65.1 | 63.2 | 62.9 |
| 718.4 | 27.5° | 534.7 | 179.1 | 83.8 | 76.4 | 71.8 | 68.2 | 63.6 | 60.5 | 58.8 | 58.5 |
| 709.2 | 30° | 495.3 | 137.9 | 78.8 | 72.0 | 66.3 | 63.2 | 59.1 | 56.6 | 55.6 | 55.6 |
| 702.7 | 32.5° | 453.0 | 110.2 | 76.7 | 67.5 | 61.5 | 58.1 | 54.9 | 53.8 | 53.5 | 53.3 |
| 706.3 | 35° | 413.1 | 95.7 | 75.7 | 63.9 | 57.3 | 54.0 | 52.6 | 52.8 | 53.5 | 53.5 |
| 717.4 | 37.5° | 377.7 | 91.1 | 75.2 | 61.4 | 53.5 | 50.6 | 51.4 | 53.0 | 52.3 | 52.3 |
| 736.9 | 40° | 345.8 | 91.6 | 74.9 | 59.5 | 50.4 | 48.7 | 50.4 | 49.2 | 47.5 | 47.3 |
| 760.6 | 42.5° | 321.3 | 95.9 | 74.2 | 57.9 | 48.5 | 47.3 | 46.7 | 44.8 | 44.6 | 45.0 |
| 785.2 | 45° | 303.6 | 99.7 | 74.0 | 57.3 | 46.5 | 44.3 | 43.4 | 41.5 | 45.0 | 45.8 |
| 795.3 | 47.5° | 282.5 | 99.7 | 74.0 | 54.9 | 43.1 | 42.2 | 40.9 | 38.8 | 42.2 | 43.1 |
| 785.8 | 50° | 255.4 | 93.3 | 71.1 | 52.1 | 40.3 | 39.8 | 37.4 | 34.9 | 34.2 | 34.7 |
| 763.4 | 52.5° | 221.0 | 81.9 | 63.8 | 48.4 | 37.6 | 36.6 | 33.7 | 31.8 | 31.3 | 31.3 |
| 723.2 | 55° | 181.9 | 68.5 | 53.8 | 42.9 | 34.7 | 32.8 | 30.8 | 29.9 | 29.4 | 29.1 |
| 667.0 | 57.5° | 147.9 | 56.2 | 43.2 | 38.1 | 32.0 | 29.6 | 28.9 | 27.9 | 27.0 | 26.5 |
| 620.0 | 60° | 121.4 | 44.3 | 35.7 | 33.8 | 29.2 | 27.0 | 26.8 | 25.5 | 23.2 | 22.9 |
| 581.2 | 62.5° | 93.7 | 32.5 | 30.1 | 29.4 | 26.5 | 24.6 | 24.3 | 21.5 | 18.1 | 17.4 |
| 526.1 | 65° | 66.1 | 25.3 | 24.3 | 25.8 | 23.6 | 21.9 | 21.0 | 16.9 | 13.3 | 12.8 |
| 440.3 | 67.5° | 46.5 | 21.2 | 19.1 | 22.6 | 20.5 | 18.3 | 17.8 | 14.4 | 11.1 | 10.8 |
| 333.0 | 70° | 33.2 | 17.3 | 15.7 | 19.3 | 16.4 | 16.1 | 15.0 | 12.0 | 9.1 | 8.7 |
| 164.8 | 72.5° | 23.4 | 13.2 | 12.1 | 16.8 | 11.3 | 13.8 | 12.3 | 9.2 | 6.8 | 6.5 |
| 56.1 | 75° | 17.3 | 9.4 | 8.5 | 9.7 | 8.2 | 10.4 | 8.7 | 6.2 | 4.3 | 4.1 |
| 25.3 | 77.5° | 12.6 | 6.0 | 5.1 | 4.8 | 4.8 | 6.5 | 4.8 | 2.6 | 1.9 | 1.7 |
| 12.8 | 80° | 8.9 | 2.7 | 2.4 | 2.1 | 1.9 | 1.5 | 0.7 | 0.3 | 0.2 | 0.2 |
| 4.4 | 82.5° | 5.3 | 1.2 | 1.2 | 0.9 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1.7 | 85° | 1.2 | 0.5 | 0.5 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 0.7 | 87.5° | 0.2 | 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 |

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