

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: P954010

Luminaire Tested: **GALN-SB7B-927-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-927-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24791 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

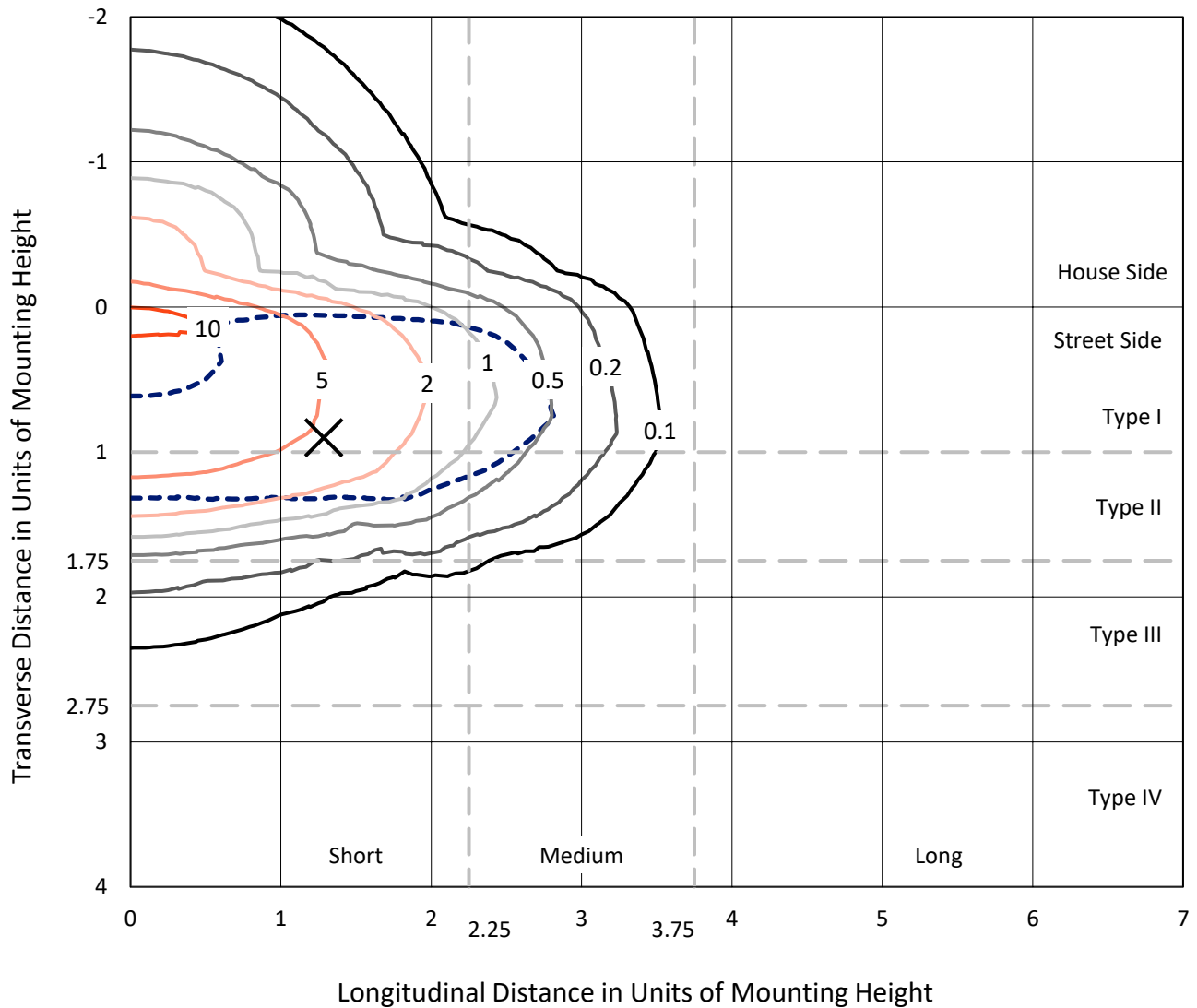
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

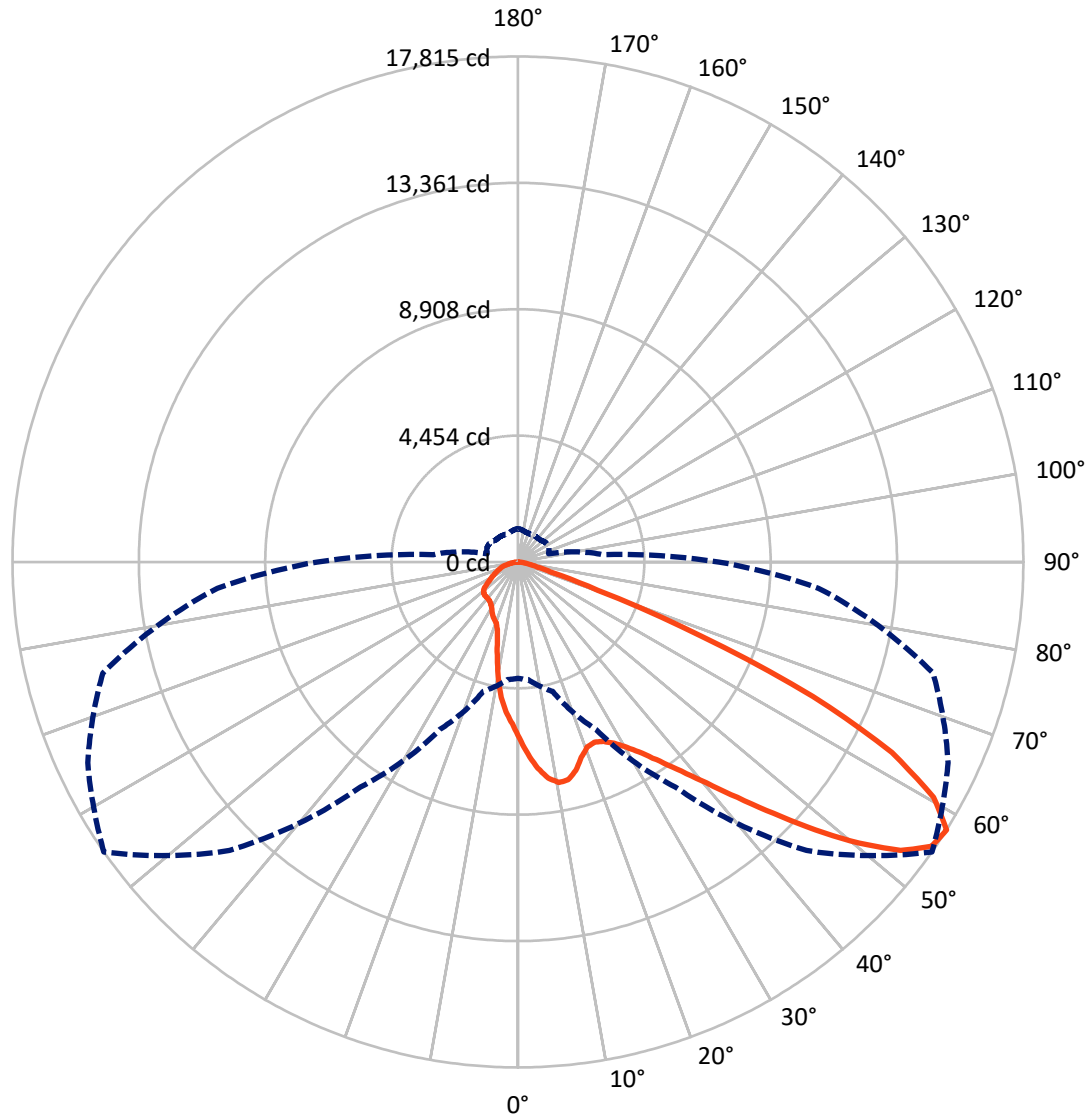
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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 | 4485.8 | 0.0 | 4485.8 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 20305.2 | 0.0 | 20305.2 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 24791.0 | 0.0 | 24791.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 576.4 | 2.3 |
| 10°-20° | 1454.9 | 5.9 |
| 20°-30° | 2321.6 | 9.4 |
| 30°-40° | 3675.7 | 14.8 |
| 40°-50° | 5626.0 | 22.7 |
| 50°-60° | 6026.0 | 24.3 |
| 60°-70° | 3791.0 | 15.3 |
| 70°-80° | 1121.1 | 4.5 |
| 80°-90° | 198.2 | 0.8 |
| 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° | 24791.0 | 100.0 |
| 0°-180° | 24791.0 | 100.0 |



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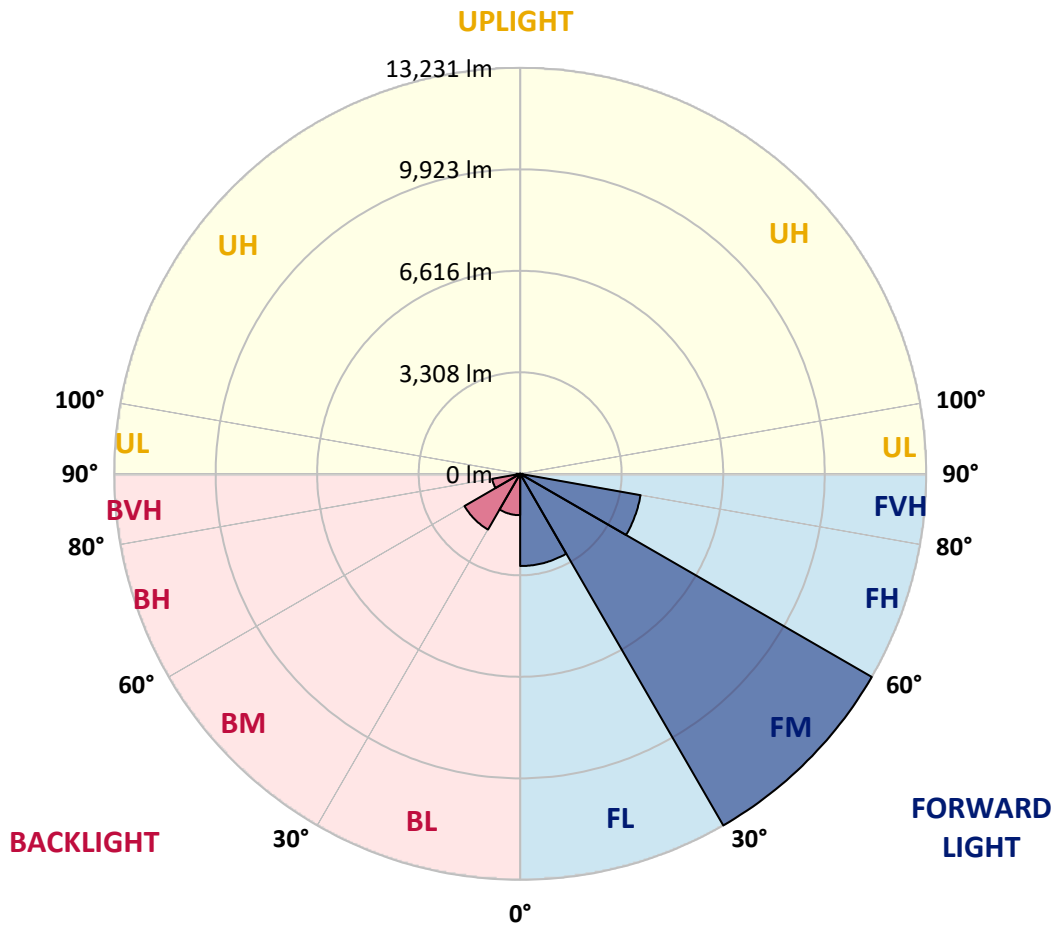
CATALOG NUMBER: GALN-SB7B-927-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3004.7 | 12.1 | | | |
| FM (30°-60°) | 13231.1 | 53.4 | | | |
| FH (60°-80°) | 3985.6 | 16.1 | | | G2/5000 |
| FVH (80°-90°) | 83.7 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1348.3 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 2096.6 | 8.5 | B2/2500 | | |
| BH (60°-80°) | 926.4 | 3.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 114.5 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 |
| 2.5° | 7126.9 | 7121.7 | 7149.9 | 7053.8 | 6988.5 | 6900.0 | 6783.4 | 6634.7 | 6474.5 | 6305.4 |
| 5° | 7768.9 | 7724.1 | 7753.6 | 7681.8 | 7610.0 | 7476.7 | 7303.7 | 7061.5 | 6765.5 | 6428.4 |
| 7.5° | 7667.7 | 7636.9 | 7712.6 | 7776.6 | 7830.5 | 7813.8 | 7686.9 | 7433.2 | 7051.3 | 6561.7 |
| 10° | 6851.3 | 6816.7 | 6923.1 | 7144.8 | 7470.3 | 7753.6 | 7907.4 | 7749.7 | 7343.5 | 6707.8 |
| 12.5° | 6131.1 | 6114.4 | 6184.9 | 6364.3 | 6725.7 | 7269.1 | 7879.2 | 8026.5 | 7647.2 | 6880.8 |
| 15° | 5823.5 | 5803.0 | 5847.9 | 5938.8 | 6169.5 | 6675.8 | 7622.8 | 8216.2 | 7945.8 | 7080.7 |
| 17.5° | 5755.6 | 5732.5 | 5751.7 | 5799.2 | 5947.8 | 6333.6 | 7235.8 | 8309.8 | 8257.2 | 7303.7 |
| 20° | 5881.2 | 5861.9 | 5864.5 | 5861.9 | 5965.8 | 6272.1 | 6966.7 | 8273.9 | 8528.9 | 7508.8 |
| 22.5° | 6184.9 | 6152.9 | 6154.1 | 6086.2 | 6142.6 | 6379.7 | 6896.2 | 8177.8 | 8771.1 | 7688.2 |
| 25° | 6679.6 | 6621.9 | 6633.5 | 6460.4 | 6445.1 | 6620.6 | 7006.4 | 8103.4 | 9012.1 | 7831.7 |
| 27.5° | 7356.3 | 7290.9 | 7256.3 | 6998.7 | 6875.7 | 6962.8 | 7230.7 | 8129.1 | 9240.2 | 7956.1 |
| 30° | 8202.1 | 8122.7 | 8052.2 | 7686.9 | 7463.9 | 7431.9 | 7579.3 | 8298.2 | 9509.3 | 8086.8 |
| 32.5° | 9238.9 | 9146.6 | 9018.5 | 8534.0 | 8220.1 | 8052.2 | 8030.4 | 8599.4 | 9824.6 | 8253.4 |
| 35° | 10473.1 | 10352.6 | 10170.6 | 9543.9 | 9146.6 | 8803.2 | 8625.0 | 9033.9 | 10256.5 | 8504.6 |
| 37.5° | 11744.4 | 11608.6 | 11441.9 | 10696.1 | 10207.8 | 9701.6 | 9350.4 | 9623.4 | 10831.9 | 8845.5 |
| 40° | 12917.0 | 12764.5 | 12609.5 | 11945.6 | 11421.4 | 10811.4 | 10238.5 | 10369.3 | 11535.5 | 9253.0 |
| 42.5° | 13609.1 | 13496.3 | 13437.4 | 13078.5 | 12673.5 | 12054.5 | 11343.3 | 11253.6 | 12326.2 | 9722.1 |
| 45° | 13578.3 | 13532.2 | 13714.2 | 13862.9 | 13766.7 | 13423.3 | 12637.7 | 12231.4 | 13119.5 | 10128.3 |
| 47.5° | 12853.0 | 12883.7 | 13290.0 | 14125.6 | 14493.4 | 14672.8 | 14111.5 | 13191.3 | 13809.0 | 10432.1 |
| 50° | 10879.3 | 10905.0 | 11845.6 | 13647.5 | 14680.5 | 15691.7 | 15573.8 | 14128.1 | 14343.4 | 10617.9 |
| 52.5° | 9317.1 | 9333.7 | 9737.4 | 12230.1 | 14062.8 | 16204.3 | 16891.2 | 15011.2 | 14734.3 | 10669.2 |
| 55° | 7017.9 | 7075.6 | 7528.0 | 9595.2 | 12455.7 | 15798.0 | 17693.5 | 15921.1 | 14981.7 | 10674.3 |
| 57.5° | 4099.8 | 4162.6 | 4721.3 | 6513.0 | 9681.1 | 14381.9 | 17815.2 | 16728.5 | 15149.6 | 10633.3 |
| 60° | 2008.2 | 2035.1 | 2278.6 | 3423.1 | 5969.6 | 11653.4 | 16836.1 | 17119.4 | 15243.1 | 10611.5 |
| 62.5° | 1353.3 | 1349.5 | 1359.8 | 1689.1 | 2941.2 | 7487.0 | 14795.8 | 16435.0 | 15193.1 | 10528.2 |
| 65° | 1163.7 | 1149.6 | 1111.1 | 1185.5 | 1523.8 | 3424.4 | 11431.7 | 14392.1 | 14812.5 | 10319.3 |
| 67.5° | 1006.0 | 1007.3 | 1008.6 | 985.5 | 1088.1 | 1580.2 | 6985.9 | 11336.9 | 13446.3 | 9329.9 |
| 70° | 833.0 | 844.6 | 849.7 | 849.7 | 886.9 | 1036.8 | 2982.2 | 7770.2 | 10606.4 | 7315.3 |
| 72.5° | 758.7 | 734.3 | 736.9 | 724.1 | 724.1 | 789.5 | 1200.8 | 4404.8 | 6682.2 | 4115.2 |
| 75° | 619.0 | 634.4 | 636.9 | 628.0 | 598.5 | 602.3 | 712.6 | 1848.0 | 2859.2 | 1707.1 |
| 77.5° | 534.4 | 534.4 | 539.5 | 533.1 | 510.1 | 451.1 | 475.5 | 716.4 | 972.7 | 699.7 |
| 80° | 429.3 | 428.0 | 449.8 | 462.7 | 426.8 | 333.2 | 303.7 | 396.0 | 431.9 | 307.6 |
| 82.5° | 208.9 | 221.7 | 308.9 | 352.4 | 324.2 | 240.9 | 185.8 | 246.1 | 230.7 | 135.8 |
| 85° | 121.8 | 115.3 | 138.4 | 196.1 | 185.8 | 133.3 | 89.7 | 128.2 | 120.5 | 69.2 |
| 87.5° | 38.4 | 35.9 | 28.2 | 66.6 | 53.8 | 37.2 | 24.4 | 37.2 | 33.3 | 15.4 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6211.8 | 0° | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 |
| 6232.3 | 2.5° | 6141.3 | 5990.1 | 5840.2 | 5703.0 | 5619.7 | 5565.9 | 5512.1 | 5451.8 | 5428.8 | 5394.2 |
| 6249.0 | 5° | 6079.8 | 5787.6 | 5527.5 | 5303.2 | 5099.4 | 4939.2 | 4777.7 | 4647.0 | 4588.1 | 4627.8 |
| 6301.5 | 7.5° | 6043.9 | 5621.0 | 5219.9 | 4808.5 | 4412.5 | 4095.9 | 3820.4 | 3626.9 | 3539.7 | 3561.5 |
| 6352.8 | 10° | 6011.9 | 5432.6 | 4821.3 | 4171.5 | 3602.5 | 3210.4 | 2928.4 | 2781.0 | 2725.9 | 2737.5 |
| 6422.0 | 12.5° | 5982.4 | 5221.2 | 4340.7 | 3485.9 | 2881.0 | 2622.1 | 2541.4 | 2542.7 | 2552.9 | 2560.6 |
| 6532.2 | 15° | 5977.3 | 4966.1 | 3803.7 | 2886.1 | 2491.4 | 2474.7 | 2561.9 | 2617.0 | 2646.5 | 2655.4 |
| 6624.5 | 17.5° | 5969.6 | 4661.1 | 3256.5 | 2477.3 | 2396.6 | 2509.3 | 2590.1 | 2626.0 | 2649.0 | 2650.3 |
| 6714.2 | 20° | 5938.8 | 4274.1 | 2751.6 | 2282.5 | 2376.0 | 2473.5 | 2523.4 | 2551.6 | 2570.9 | 2577.3 |
| 6782.1 | 22.5° | 5844.0 | 3843.5 | 2358.1 | 2195.3 | 2294.0 | 2372.2 | 2431.2 | 2463.2 | 2474.7 | 2482.4 |
| 6794.9 | 25° | 5673.6 | 3361.6 | 2086.4 | 2112.0 | 2180.0 | 2278.6 | 2326.1 | 2332.5 | 2328.6 | 2340.2 |
| 6762.9 | 27.5° | 5450.6 | 2845.1 | 1917.2 | 1999.3 | 2086.4 | 2171.0 | 2196.6 | 2192.8 | 2185.1 | 2197.9 |
| 6707.8 | 30° | 5181.4 | 2381.2 | 1809.6 | 1872.4 | 1991.6 | 2068.5 | 2091.5 | 2082.6 | 2067.2 | 2081.3 |
| 6679.6 | 32.5° | 4896.9 | 2001.8 | 1721.2 | 1784.0 | 1913.4 | 1989.0 | 2012.1 | 2003.1 | 1991.6 | 2003.1 |
| 6711.6 | 35° | 4631.6 | 1736.5 | 1639.1 | 1725.0 | 1851.9 | 1926.2 | 1955.7 | 1957.0 | 1957.0 | 1971.1 |
| 6796.2 | 37.5° | 4388.1 | 1581.5 | 1571.2 | 1687.8 | 1809.6 | 1876.2 | 1918.5 | 1921.1 | 1866.0 | 1869.8 |
| 6939.8 | 40° | 4162.6 | 1516.1 | 1540.5 | 1663.5 | 1768.6 | 1832.7 | 1835.2 | 1691.7 | 1590.4 | 1587.9 |
| 7103.8 | 42.5° | 3978.0 | 1503.3 | 1549.4 | 1660.9 | 1739.1 | 1741.7 | 1561.0 | 1449.5 | 1421.3 | 1422.6 |
| 7255.0 | 45° | 3805.0 | 1499.4 | 1569.9 | 1660.9 | 1695.5 | 1504.6 | 1382.8 | 1353.3 | 1355.9 | 1366.2 |
| 7323.0 | 47.5° | 3611.5 | 1484.1 | 1573.8 | 1637.9 | 1569.9 | 1338.0 | 1302.1 | 1289.3 | 1284.1 | 1286.7 |
| 7307.6 | 50° | 3400.0 | 1429.0 | 1525.1 | 1591.7 | 1354.6 | 1266.2 | 1221.3 | 1217.5 | 1223.9 | 1227.8 |
| 7221.7 | 52.5° | 3177.0 | 1339.3 | 1441.8 | 1508.4 | 1255.9 | 1203.4 | 1153.4 | 1162.4 | 1190.6 | 1199.6 |
| 7132.0 | 55° | 3030.9 | 1234.2 | 1331.6 | 1341.8 | 1186.7 | 1144.5 | 1102.2 | 1122.7 | 1175.2 | 1191.9 |
| 7078.2 | 57.5° | 2992.5 | 1122.7 | 1206.0 | 1194.4 | 1098.3 | 1093.2 | 1067.6 | 1085.5 | 1152.1 | 1176.5 |
| 7075.6 | 60° | 2981.0 | 1022.7 | 1082.9 | 1074.0 | 1012.4 | 1036.8 | 1030.4 | 1039.4 | 1062.4 | 1070.1 |
| 7050.0 | 62.5° | 2891.2 | 943.2 | 972.7 | 959.9 | 935.6 | 977.8 | 993.2 | 974.0 | 991.9 | 1000.9 |
| 6874.4 | 65° | 2663.1 | 879.2 | 865.1 | 856.1 | 866.3 | 904.8 | 935.6 | 897.1 | 913.8 | 939.4 |
| 6197.7 | 67.5° | 2286.3 | 792.0 | 753.6 | 763.8 | 795.9 | 816.4 | 856.1 | 812.5 | 826.6 | 870.2 |
| 4991.8 | 70° | 1849.3 | 681.8 | 647.2 | 676.7 | 707.4 | 749.7 | 756.1 | 726.7 | 760.0 | 808.7 |
| 3046.3 | 72.5° | 1308.5 | 570.3 | 546.0 | 606.2 | 616.4 | 671.5 | 657.5 | 643.4 | 689.5 | 706.2 |
| 1505.9 | 75° | 907.4 | 460.1 | 446.0 | 492.1 | 529.3 | 576.7 | 566.5 | 583.1 | 680.5 | 688.2 |
| 752.3 | 77.5° | 574.1 | 357.6 | 348.6 | 378.1 | 429.3 | 481.9 | 498.5 | 688.2 | 1162.4 | 1208.5 |
| 390.9 | 80° | 333.2 | 266.6 | 256.3 | 279.4 | 324.2 | 372.9 | 480.6 | 844.6 | 766.4 | 757.4 |
| 175.6 | 82.5° | 185.8 | 183.3 | 170.5 | 176.9 | 216.6 | 269.1 | 679.2 | 594.7 | 483.2 | 498.5 |
| 70.5 | 85° | 87.1 | 107.7 | 92.3 | 88.4 | 121.8 | 315.3 | 453.7 | 339.6 | 225.6 | 220.4 |
| 15.4 | 87.5° | 23.1 | 20.5 | 20.5 | 23.1 | 51.3 | 271.7 | 180.7 | 144.8 | 85.9 | 83.3 |
| 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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