

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: P952162

Luminaire Tested: **GALN-SB6A-835-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952162
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-SB6A-835-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25660 lumens
Efficiency: N/A
Efficacy: 150.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

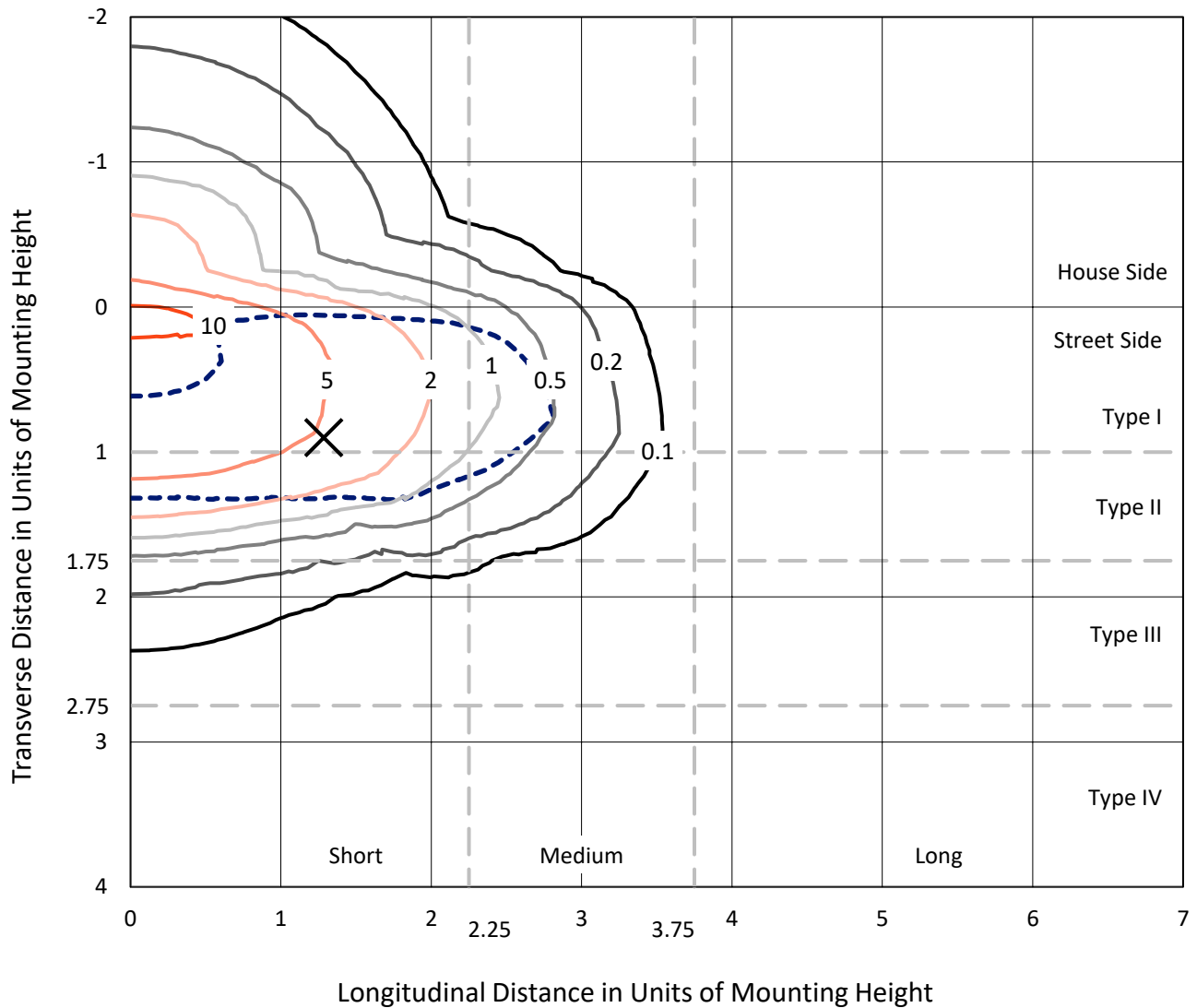
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

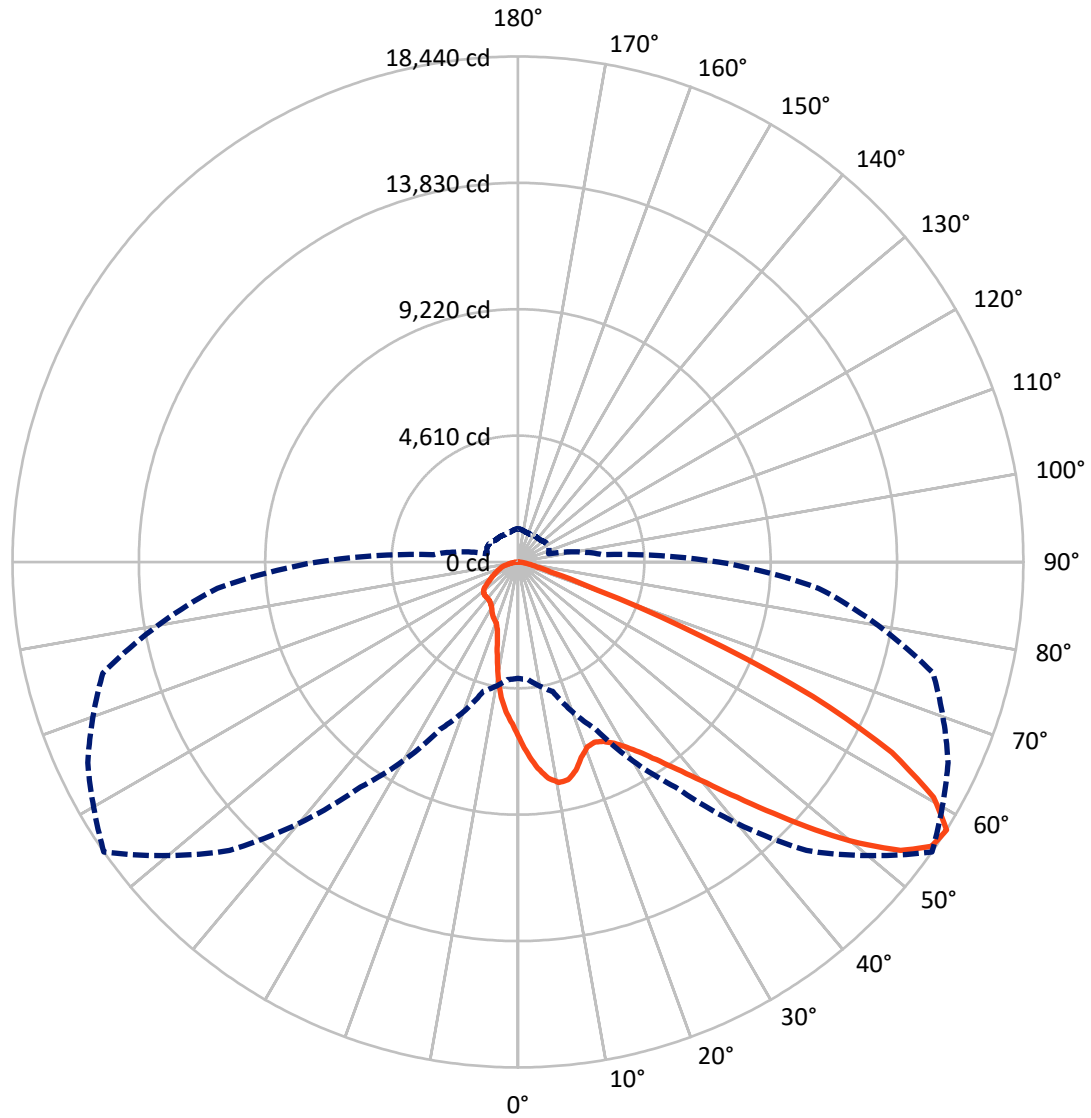
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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 | 4643.0 | 0.0 | 4643.0 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 21016.9 | 0.0 | 21016.9 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 25660.0 | 0.0 | 25660.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 596.6 | 2.3 |
| 10°-20° | 1505.9 | 5.9 |
| 20°-30° | 2403.0 | 9.4 |
| 30°-40° | 3804.6 | 14.8 |
| 40°-50° | 5823.3 | 22.7 |
| 50°-60° | 6237.2 | 24.3 |
| 60°-70° | 3923.9 | 15.3 |
| 70°-80° | 1160.4 | 4.5 |
| 80°-90° | 205.2 | 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° | 25660.0 | 100.0 |
| 0°-180° | 25660.0 | 100.0 |

Coefficient of Utilization



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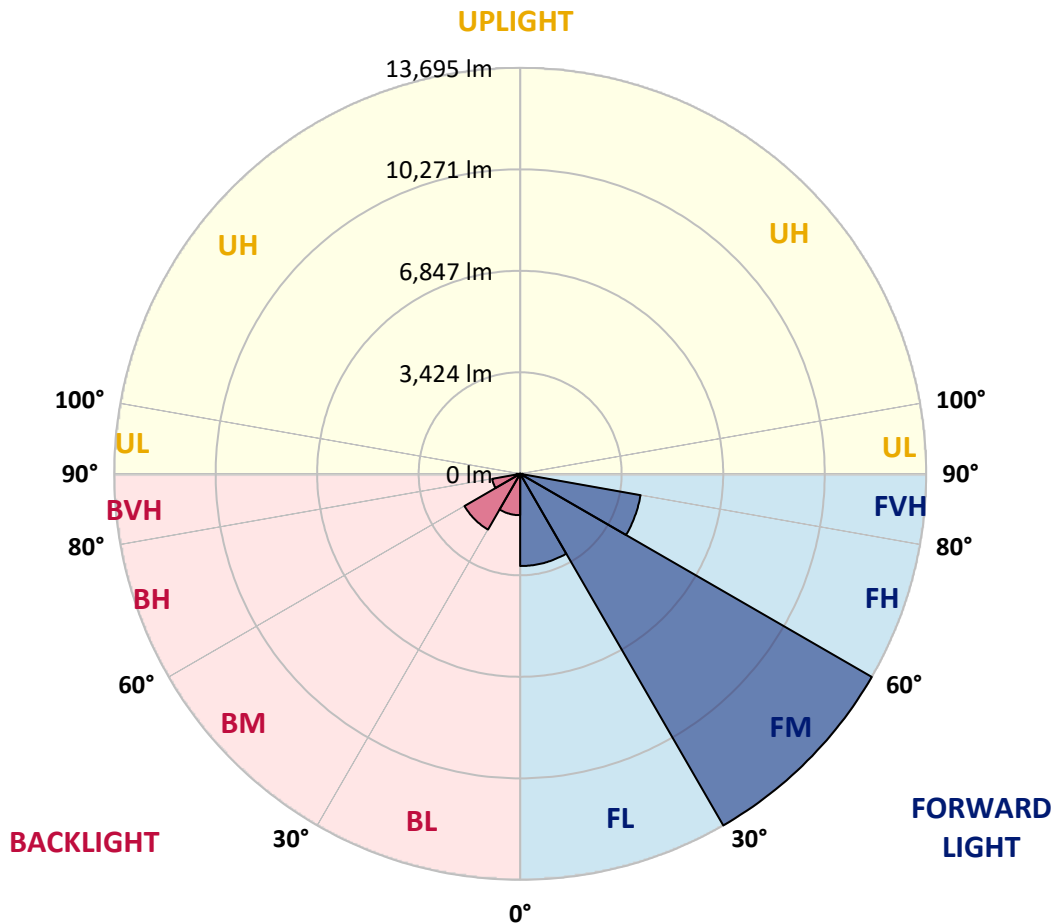
CATALOG NUMBER: GALN-SB6A-835-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3110.0 | 12.1 | | | |
| FM (30°-60°) | 13694.9 | 53.4 | | | |
| FH (60°-80°) | 4125.3 | 16.1 | | | G2/5000 |
| FVH (80°-90°) | 86.7 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1395.5 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 2170.1 | 8.5 | B2/2500 | | |
| BH (60°-80°) | 958.9 | 3.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 118.5 | 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° | 6429.6 | 6429.6 | 6429.6 | 6429.6 | 6429.6 | 6429.6 | 6429.6 | 6429.6 | 6429.6 | 6429.6 |
| 2.5° | 7376.7 | 7371.4 | 7400.6 | 7301.1 | 7233.4 | 7141.9 | 7021.2 | 6867.3 | 6701.5 | 6526.4 |
| 5° | 8041.3 | 7994.8 | 8025.3 | 7951.1 | 7876.8 | 7738.8 | 7559.7 | 7309.0 | 7002.6 | 6653.7 |
| 7.5° | 7936.5 | 7904.6 | 7982.9 | 8049.2 | 8104.9 | 8087.7 | 7956.4 | 7693.7 | 7298.4 | 6791.7 |
| 10° | 7091.5 | 7055.7 | 7165.8 | 7395.3 | 7732.2 | 8025.3 | 8184.5 | 8021.4 | 7600.9 | 6942.9 |
| 12.5° | 6346.0 | 6328.7 | 6401.7 | 6587.4 | 6961.5 | 7523.9 | 8155.3 | 8307.9 | 7915.2 | 7122.0 |
| 15° | 6027.6 | 6006.4 | 6052.8 | 6147.0 | 6385.8 | 6909.8 | 7890.0 | 8504.2 | 8224.3 | 7328.9 |
| 17.5° | 5957.3 | 5933.5 | 5953.3 | 6002.4 | 6156.3 | 6555.6 | 7489.4 | 8601.0 | 8546.7 | 7559.7 |
| 20° | 6087.3 | 6067.4 | 6070.1 | 6067.4 | 6174.9 | 6491.9 | 7210.9 | 8563.9 | 8827.9 | 7772.0 |
| 22.5° | 6401.7 | 6368.5 | 6369.9 | 6299.6 | 6357.9 | 6603.3 | 7137.9 | 8464.4 | 9078.6 | 7957.7 |
| 25° | 6913.7 | 6854.0 | 6866.0 | 6686.9 | 6671.0 | 6852.7 | 7252.0 | 8387.5 | 9328.0 | 8106.3 |
| 27.5° | 7614.1 | 7546.5 | 7510.7 | 7244.0 | 7116.7 | 7206.9 | 7484.1 | 8414.0 | 9564.1 | 8234.9 |
| 30° | 8489.6 | 8407.4 | 8334.4 | 7956.4 | 7725.6 | 7692.4 | 7844.9 | 8589.1 | 9842.7 | 8370.2 |
| 32.5° | 9562.8 | 9467.3 | 9334.6 | 8833.2 | 8508.2 | 8334.4 | 8311.9 | 8900.8 | 10169.0 | 8542.7 |
| 35° | 10840.2 | 10715.5 | 10527.1 | 9878.5 | 9467.3 | 9111.8 | 8927.4 | 9350.5 | 10616.0 | 8802.7 |
| 37.5° | 12156.1 | 12015.5 | 11843.0 | 11071.0 | 10565.6 | 10041.6 | 9678.2 | 9960.7 | 11211.6 | 9155.5 |
| 40° | 13369.8 | 13212.0 | 13051.5 | 12364.3 | 11821.8 | 11190.4 | 10597.4 | 10732.7 | 11939.9 | 9577.4 |
| 42.5° | 14086.1 | 13969.4 | 13908.4 | 13537.0 | 13117.8 | 12477.1 | 11740.9 | 11648.0 | 12758.3 | 10062.9 |
| 45° | 14054.3 | 14006.6 | 14194.9 | 14348.8 | 14249.3 | 13893.8 | 13080.7 | 12660.2 | 13579.4 | 10483.4 |
| 47.5° | 13303.5 | 13335.3 | 13755.8 | 14620.7 | 15001.4 | 15187.1 | 14606.1 | 13653.7 | 14293.1 | 10797.7 |
| 50° | 11260.7 | 11287.2 | 12260.9 | 14125.9 | 15195.1 | 16241.7 | 16119.7 | 14623.4 | 14846.2 | 10990.1 |
| 52.5° | 9643.7 | 9660.9 | 10078.8 | 12658.8 | 14555.7 | 16772.3 | 17483.3 | 15537.3 | 15250.8 | 11043.1 |
| 55° | 7263.9 | 7323.6 | 7791.9 | 9931.5 | 12892.3 | 16351.8 | 18313.7 | 16479.2 | 15506.8 | 11048.4 |
| 57.5° | 4243.5 | 4308.5 | 4886.8 | 6741.3 | 10020.4 | 14886.0 | 18439.7 | 17314.9 | 15680.6 | 11006.0 |
| 60° | 2078.6 | 2106.5 | 2358.5 | 3543.1 | 6178.9 | 12061.9 | 17426.3 | 17719.4 | 15777.4 | 10983.5 |
| 62.5° | 1400.8 | 1396.8 | 1407.4 | 1748.3 | 3044.3 | 7749.4 | 15314.5 | 17011.1 | 15725.7 | 10897.2 |
| 65° | 1204.5 | 1189.9 | 1150.1 | 1227.0 | 1577.2 | 3544.4 | 11832.4 | 14896.6 | 15331.7 | 10681.0 |
| 67.5° | 1041.3 | 1042.6 | 1044.0 | 1020.1 | 1126.2 | 1635.6 | 7230.8 | 11734.3 | 13917.7 | 9656.9 |
| 70° | 862.2 | 874.2 | 879.5 | 879.5 | 917.9 | 1073.1 | 3086.8 | 8042.6 | 10978.1 | 7571.7 |
| 72.5° | 785.3 | 760.1 | 762.7 | 749.5 | 749.5 | 817.1 | 1242.9 | 4559.2 | 6916.4 | 4259.4 |
| 75° | 640.7 | 656.6 | 659.3 | 650.0 | 619.5 | 623.5 | 737.5 | 1912.8 | 2959.4 | 1766.9 |
| 77.5° | 553.2 | 553.2 | 558.5 | 551.8 | 527.9 | 466.9 | 492.1 | 741.5 | 1006.8 | 724.3 |
| 80° | 444.4 | 443.1 | 465.6 | 478.9 | 441.7 | 344.9 | 314.4 | 409.9 | 447.0 | 318.4 |
| 82.5° | 216.2 | 229.5 | 319.7 | 364.8 | 335.6 | 249.4 | 192.3 | 254.7 | 238.8 | 140.6 |
| 85° | 126.0 | 119.4 | 143.3 | 203.0 | 192.3 | 138.0 | 92.9 | 132.7 | 124.7 | 71.6 |
| 87.5° | 39.8 | 37.1 | 29.2 | 69.0 | 55.7 | 38.5 | 25.2 | 38.5 | 34.5 | 15.9 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6429.6 | 0° | 6429.6 | 6429.6 | 6429.6 | 6429.6 | 6429.6 | 6429.6 | 6429.6 | 6429.6 | 6429.6 | 6429.6 |
| 6450.8 | 2.5° | 6356.6 | 6200.1 | 6044.9 | 5902.9 | 5816.7 | 5761.0 | 5705.3 | 5642.9 | 5619.1 | 5583.3 |
| 6468.0 | 5° | 6292.9 | 5990.5 | 5721.2 | 5489.1 | 5278.2 | 5112.3 | 4945.2 | 4809.9 | 4748.9 | 4790.0 |
| 6522.4 | 7.5° | 6255.8 | 5818.0 | 5402.8 | 4977.0 | 4567.2 | 4239.5 | 3954.3 | 3754.0 | 3663.8 | 3686.4 |
| 6575.5 | 10° | 6222.6 | 5623.0 | 4990.3 | 4317.8 | 3728.8 | 3322.9 | 3031.1 | 2878.5 | 2821.5 | 2833.4 |
| 6647.1 | 12.5° | 6192.1 | 5404.2 | 4492.9 | 3608.1 | 2982.0 | 2714.0 | 2630.5 | 2631.8 | 2642.4 | 2650.4 |
| 6761.2 | 15° | 6186.8 | 5140.2 | 3937.1 | 2987.3 | 2578.7 | 2561.5 | 2651.7 | 2708.7 | 2739.2 | 2748.5 |
| 6856.7 | 17.5° | 6178.9 | 4824.5 | 3370.6 | 2564.1 | 2480.6 | 2597.3 | 2680.9 | 2718.0 | 2741.9 | 2743.2 |
| 6949.6 | 20° | 6147.0 | 4423.9 | 2848.0 | 2362.5 | 2459.3 | 2560.2 | 2611.9 | 2641.1 | 2661.0 | 2667.6 |
| 7019.9 | 22.5° | 6048.9 | 3978.2 | 2440.8 | 2272.3 | 2374.4 | 2455.4 | 2516.4 | 2549.5 | 2561.5 | 2569.4 |
| 7033.1 | 25° | 5872.4 | 3479.4 | 2159.5 | 2186.1 | 2256.4 | 2358.5 | 2407.6 | 2414.2 | 2410.3 | 2422.2 |
| 7000.0 | 27.5° | 5641.6 | 2944.8 | 1984.4 | 2069.3 | 2159.5 | 2247.1 | 2273.6 | 2269.6 | 2261.7 | 2275.0 |
| 6942.9 | 30° | 5363.1 | 2464.6 | 1873.0 | 1938.0 | 2061.4 | 2141.0 | 2164.9 | 2155.6 | 2139.7 | 2154.2 |
| 6913.7 | 32.5° | 5068.6 | 2072.0 | 1781.5 | 1846.5 | 1980.5 | 2058.7 | 2082.6 | 2073.3 | 2061.4 | 2073.3 |
| 6946.9 | 35° | 4794.0 | 1797.4 | 1696.6 | 1785.5 | 1916.8 | 1993.7 | 2024.2 | 2025.6 | 2025.6 | 2040.2 |
| 7034.4 | 37.5° | 4541.9 | 1636.9 | 1626.3 | 1747.0 | 1873.0 | 1942.0 | 1985.8 | 1988.4 | 1931.4 | 1935.4 |
| 7183.0 | 40° | 4308.5 | 1569.3 | 1594.5 | 1721.8 | 1830.6 | 1896.9 | 1899.6 | 1751.0 | 1646.2 | 1643.5 |
| 7352.8 | 42.5° | 4117.5 | 1556.0 | 1603.7 | 1719.1 | 1800.1 | 1802.7 | 1615.7 | 1500.3 | 1471.1 | 1472.4 |
| 7509.3 | 45° | 3938.4 | 1552.0 | 1625.0 | 1719.1 | 1755.0 | 1557.3 | 1431.3 | 1400.8 | 1403.4 | 1414.1 |
| 7579.6 | 47.5° | 3738.1 | 1536.1 | 1628.9 | 1695.3 | 1625.0 | 1384.9 | 1347.7 | 1334.5 | 1329.2 | 1331.8 |
| 7563.7 | 50° | 3519.2 | 1479.1 | 1578.5 | 1647.5 | 1402.1 | 1310.6 | 1264.2 | 1260.2 | 1266.8 | 1270.8 |
| 7474.8 | 52.5° | 3288.4 | 1386.2 | 1492.3 | 1561.3 | 1300.0 | 1245.6 | 1193.9 | 1203.1 | 1232.3 | 1241.6 |
| 7382.0 | 55° | 3137.2 | 1277.4 | 1378.2 | 1388.8 | 1228.3 | 1184.6 | 1140.8 | 1162.0 | 1216.4 | 1233.6 |
| 7326.3 | 57.5° | 3097.4 | 1162.0 | 1248.2 | 1236.3 | 1136.8 | 1131.5 | 1105.0 | 1123.5 | 1192.5 | 1217.7 |
| 7323.6 | 60° | 3085.4 | 1058.5 | 1120.9 | 1111.6 | 1047.9 | 1073.1 | 1066.5 | 1075.8 | 1099.7 | 1107.6 |
| 7297.1 | 62.5° | 2992.6 | 976.3 | 1006.8 | 993.6 | 968.3 | 1012.1 | 1028.0 | 1008.1 | 1026.7 | 1036.0 |
| 7115.4 | 65° | 2756.5 | 910.0 | 895.4 | 886.1 | 896.7 | 936.5 | 968.3 | 928.6 | 945.8 | 972.3 |
| 6415.0 | 67.5° | 2366.5 | 819.8 | 780.0 | 790.6 | 823.8 | 845.0 | 886.1 | 841.0 | 855.6 | 900.7 |
| 5166.7 | 70° | 1914.1 | 705.7 | 669.9 | 700.4 | 732.2 | 776.0 | 782.6 | 752.1 | 786.6 | 837.0 |
| 3153.1 | 72.5° | 1354.4 | 590.3 | 565.1 | 627.4 | 638.0 | 695.1 | 680.5 | 665.9 | 713.7 | 730.9 |
| 1558.6 | 75° | 939.2 | 476.2 | 461.6 | 509.4 | 547.8 | 596.9 | 586.3 | 603.6 | 704.4 | 712.3 |
| 778.7 | 77.5° | 594.3 | 370.1 | 360.8 | 391.3 | 444.4 | 498.8 | 516.0 | 712.3 | 1203.1 | 1250.9 |
| 404.6 | 80° | 344.9 | 275.9 | 265.3 | 289.2 | 335.6 | 386.0 | 497.4 | 874.2 | 793.2 | 784.0 |
| 181.7 | 82.5° | 192.3 | 189.7 | 176.4 | 183.1 | 224.2 | 278.6 | 703.0 | 615.5 | 500.1 | 516.0 |
| 73.0 | 85° | 90.2 | 111.4 | 95.5 | 91.5 | 126.0 | 326.3 | 469.6 | 351.5 | 233.5 | 228.2 |
| 15.9 | 87.5° | 23.9 | 21.2 | 21.2 | 23.9 | 53.1 | 281.2 | 187.0 | 149.9 | 88.9 | 86.2 |
| 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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