

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: P950130

Luminaire Tested: **GALN-SB4C-935-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-935-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20406 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

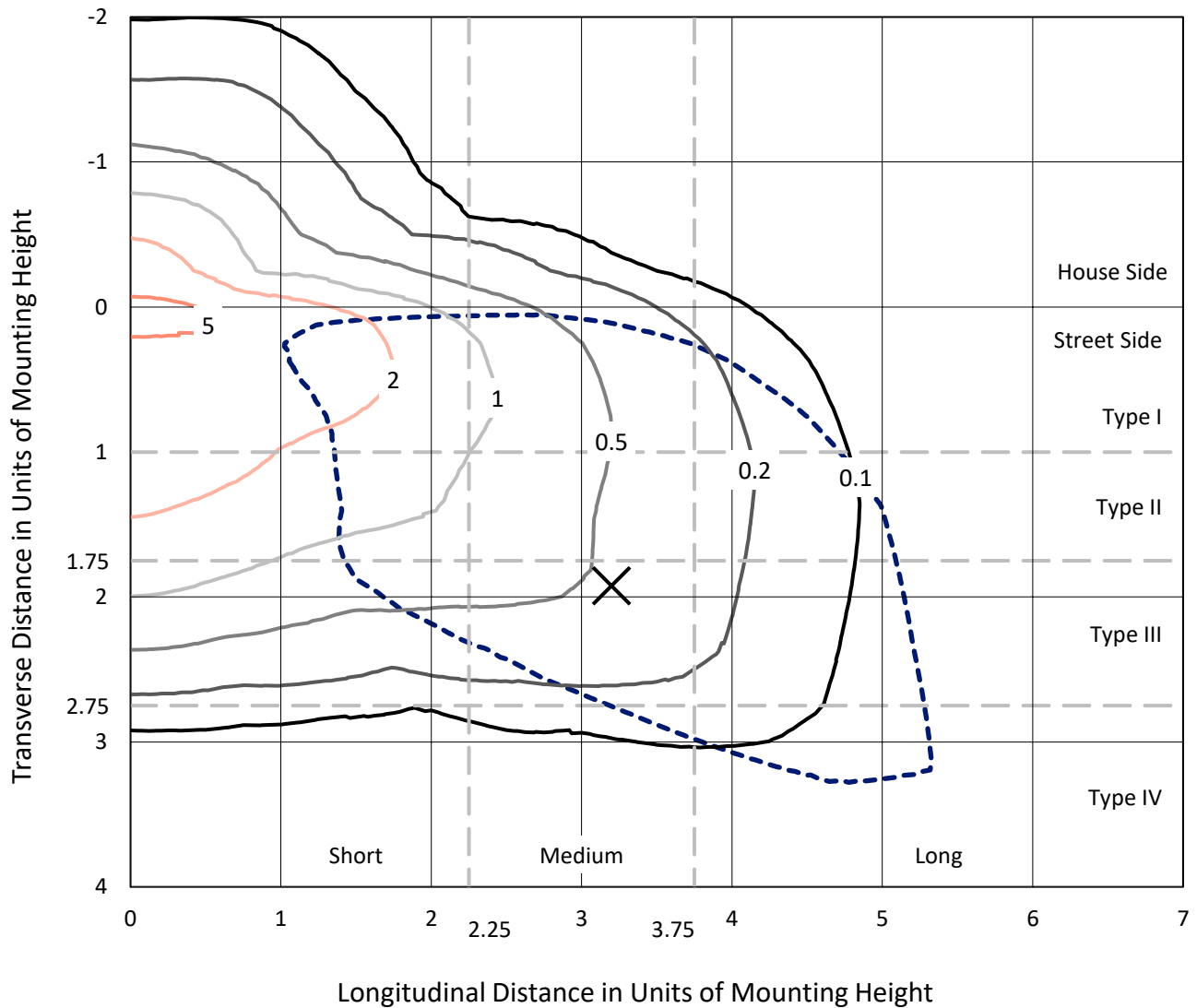
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

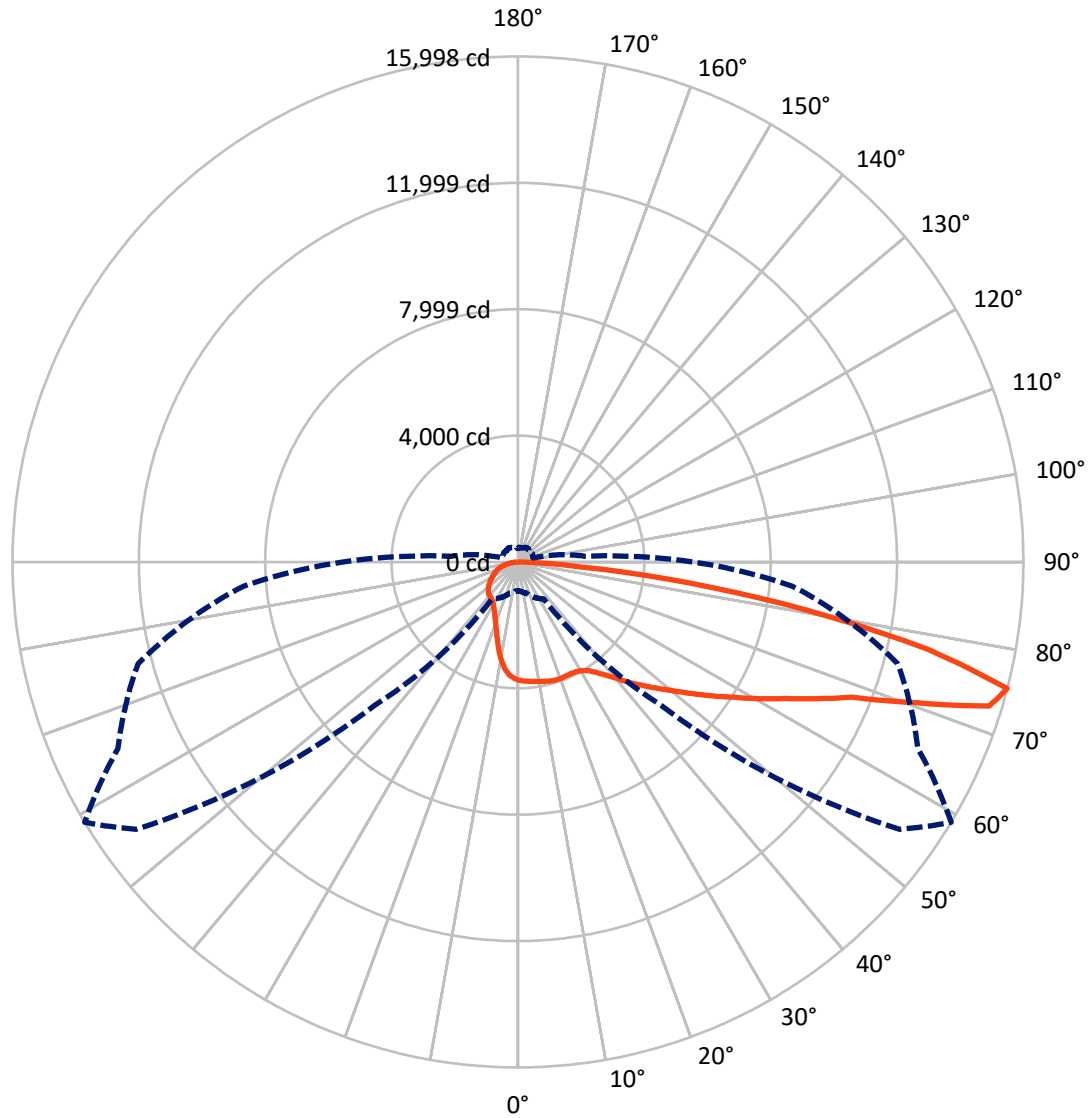
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3827.3 | 0.0 | 3827.3 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 16578.7 | 0.0 | 16578.7 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 20406.0 | 0.0 | 20406.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 335.8 | 1.6 |
| 10°-20° | 858.4 | 4.2 |
| 20°-30° | 1303.9 | 6.4 |
| 30°-40° | 1938.2 | 9.5 |
| 40°-50° | 2882.4 | 14.1 |
| 50°-60° | 3912.6 | 19.2 |
| 60°-70° | 4776.6 | 23.4 |
| 70°-80° | 3748.6 | 18.4 |
| 80°-90° | 649.4 | 3.2 |
| 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° | 20406.0 | 100.0 |
| 0°-180° | 20406.0 | 100.0 |

Coefficient of Utilization



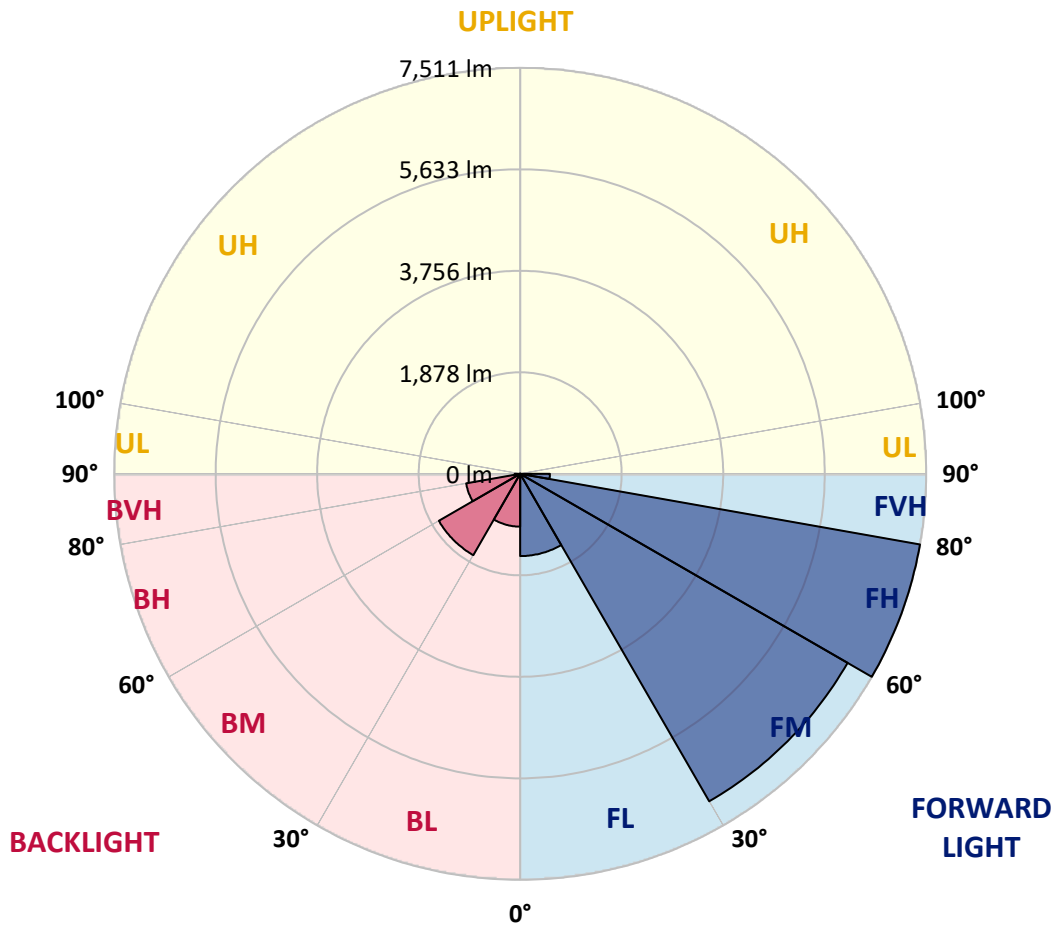
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1521.5 | 7.5 | | | |
| FM (30°-60°) | 6996.0 | 34.3 | | | |
| FH (60°-80°) | 7511.3 | 36.8 | | | G4/12000 |
| FVH (80°-90°) | 550.0 | 2.7 | | | G4/750 |
| BL (0°-30°) | 976.7 | 4.8 | B2/1000 | | |
| BM (30°-60°) | 1737.2 | 8.5 | B2/2500 | | |
| BH (60°-80°) | 1014.0 | 5.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 99.4 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 3745.5 | 3745.5 | 3745.5 | 3745.5 | 3745.5 | 3745.5 | 3745.5 | 3745.5 | 3745.5 | 3745.5 |
| 2.5° | 3777.3 | 3764.1 | 3777.3 | 3771.8 | 3769.6 | 3765.2 | 3766.3 | 3774.0 | 3769.6 | 3775.1 |
| 5° | 3752.1 | 3744.4 | 3757.6 | 3754.3 | 3768.5 | 3770.7 | 3785.0 | 3793.8 | 3799.3 | 3800.4 |
| 7.5° | 3710.3 | 3702.7 | 3721.3 | 3736.7 | 3767.4 | 3776.2 | 3805.9 | 3820.1 | 3827.8 | 3841.0 |
| 10° | 3557.8 | 3554.5 | 3600.6 | 3658.8 | 3731.2 | 3776.2 | 3821.2 | 3845.4 | 3857.4 | 3892.6 |
| 12.5° | 3287.7 | 3292.1 | 3352.5 | 3464.5 | 3609.4 | 3754.3 | 3838.8 | 3873.9 | 3892.6 | 3936.5 |
| 15° | 3029.8 | 3028.7 | 3094.5 | 3214.2 | 3417.3 | 3657.7 | 3847.6 | 3907.9 | 3939.8 | 4004.5 |
| 17.5° | 2880.5 | 2876.1 | 2922.2 | 3013.3 | 3202.1 | 3509.5 | 3825.6 | 3926.6 | 3994.7 | 4075.9 |
| 20° | 2853.0 | 2844.2 | 2868.4 | 2913.4 | 3047.3 | 3347.0 | 3768.5 | 3926.6 | 4038.6 | 4144.0 |
| 22.5° | 2952.9 | 2938.6 | 2928.8 | 2923.3 | 2982.5 | 3213.1 | 3703.8 | 3913.4 | 4103.3 | 4241.7 |
| 25° | 3153.8 | 3131.8 | 3081.3 | 3031.9 | 3014.4 | 3152.7 | 3646.7 | 3910.1 | 4199.9 | 4373.4 |
| 27.5° | 3478.7 | 3451.3 | 3349.2 | 3230.6 | 3124.2 | 3183.4 | 3621.4 | 3929.9 | 4306.4 | 4512.8 |
| 30° | 3881.6 | 3852.0 | 3723.5 | 3541.3 | 3350.3 | 3297.6 | 3653.3 | 3988.1 | 4442.5 | 4698.3 |
| 32.5° | 4242.8 | 4209.8 | 4100.0 | 3914.5 | 3656.6 | 3495.2 | 3754.3 | 4098.9 | 4656.6 | 4956.3 |
| 35° | 4563.3 | 4524.9 | 4426.1 | 4254.8 | 4032.0 | 3772.9 | 3936.5 | 4295.4 | 4960.7 | 5375.6 |
| 37.5° | 4877.2 | 4832.2 | 4724.7 | 4543.5 | 4387.7 | 4142.9 | 4187.9 | 4547.9 | 5364.6 | 5885.0 |
| 40° | 5228.5 | 5163.8 | 5033.1 | 4854.2 | 4702.7 | 4576.5 | 4518.3 | 4857.5 | 5775.2 | 6453.6 |
| 42.5° | 5568.8 | 5507.3 | 5351.5 | 5198.9 | 5009.0 | 4972.7 | 4901.4 | 5219.7 | 6224.2 | 7078.2 |
| 45° | 5935.5 | 5861.9 | 5673.1 | 5479.9 | 5360.2 | 5236.2 | 5272.4 | 5582.0 | 6664.4 | 7714.9 |
| 47.5° | 6279.1 | 6196.7 | 5973.9 | 5758.7 | 5692.9 | 5457.9 | 5612.7 | 5980.5 | 7122.1 | 8360.4 |
| 50° | 6464.6 | 6383.3 | 6197.8 | 6003.5 | 5951.9 | 5731.3 | 5981.6 | 6418.5 | 7601.8 | 9003.6 |
| 52.5° | 6619.3 | 6531.5 | 6288.9 | 6181.4 | 6166.0 | 6028.8 | 6436.0 | 6919.0 | 8081.5 | 9572.3 |
| 55° | 6784.0 | 6686.3 | 6376.7 | 6280.1 | 6350.4 | 6362.5 | 6975.0 | 7486.6 | 8588.7 | 10126.6 |
| 57.5° | 6973.9 | 6849.9 | 6461.3 | 6363.6 | 6530.4 | 6753.3 | 7594.1 | 8074.9 | 9087.1 | 10640.4 |
| 60° | 7152.8 | 7027.7 | 6623.7 | 6496.4 | 6724.7 | 7206.6 | 8304.4 | 8787.4 | 9651.3 | 11098.1 |
| 62.5° | 7188.0 | 7084.8 | 6753.3 | 6752.2 | 6988.2 | 7735.7 | 9145.2 | 9506.4 | 10144.2 | 11550.4 |
| 65° | 6579.8 | 6515.1 | 6318.6 | 6742.3 | 7365.8 | 8497.6 | 10081.6 | 10426.3 | 10771.0 | 11945.6 |
| 67.5° | 5007.9 | 5016.7 | 5002.4 | 5820.2 | 7060.6 | 9592.0 | 11437.3 | 11411.0 | 11544.9 | 12389.1 |
| 70° | 2289.9 | 2341.5 | 2677.4 | 4017.7 | 5656.6 | 9718.3 | 13678.9 | 13337.5 | 12516.4 | 12963.2 |
| 72.5° | 1237.1 | 1276.7 | 1413.9 | 1946.3 | 3400.8 | 8640.3 | 15354.0 | 15596.6 | 13808.4 | 13349.6 |
| 75° | 907.8 | 929.8 | 1025.3 | 1237.1 | 1428.2 | 6421.8 | 14753.6 | 15998.4 | 13969.8 | 12448.3 |
| 77.5° | 679.5 | 689.4 | 767.3 | 980.3 | 731.1 | 3385.4 | 11788.6 | 13249.7 | 11958.7 | 10227.6 |
| 80° | 492.9 | 503.9 | 562.0 | 735.5 | 512.6 | 1238.2 | 8094.7 | 9300.0 | 8190.2 | 6519.5 |
| 82.5° | 340.3 | 344.7 | 369.9 | 500.6 | 357.9 | 480.8 | 4592.9 | 5453.6 | 4572.1 | 2287.7 |
| 85° | 205.3 | 210.8 | 221.7 | 292.0 | 203.1 | 228.3 | 1982.5 | 2050.6 | 1366.7 | 546.7 |
| 87.5° | 84.5 | 90.0 | 98.8 | 122.9 | 80.1 | 63.7 | 327.1 | 410.6 | 255.8 | 160.3 |
| 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° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3745.5 | 0° | 3745.5 | 3745.5 | 3745.5 | 3745.5 | 3745.5 | 3745.5 | 3745.5 | 3745.5 | 3745.5 | 3745.5 |
| 3756.5 | 2.5° | 3751.0 | 3743.3 | 3722.4 | 3693.9 | 3667.5 | 3634.6 | 3620.3 | 3608.3 | 3597.3 | 3576.4 |
| 3786.1 | 5° | 3774.0 | 3753.2 | 3697.2 | 3624.7 | 3542.4 | 3452.4 | 3364.6 | 3304.2 | 3252.6 | 3214.2 |
| 3820.1 | 7.5° | 3809.1 | 3769.6 | 3667.5 | 3519.3 | 3330.5 | 3137.3 | 2962.8 | 2838.7 | 2745.4 | 2711.4 |
| 3868.4 | 10° | 3845.4 | 3798.2 | 3620.3 | 3359.1 | 3033.0 | 2735.6 | 2503.9 | 2376.6 | 2302.0 | 2277.8 |
| 3925.5 | 12.5° | 3888.2 | 3819.0 | 3546.8 | 3136.2 | 2700.4 | 2374.4 | 2172.4 | 2097.8 | 2059.4 | 2046.2 |
| 3995.8 | 15° | 3950.8 | 3836.6 | 3435.9 | 2857.4 | 2383.2 | 2110.9 | 1980.3 | 1928.7 | 1909.0 | 1907.9 |
| 4068.2 | 17.5° | 3998.0 | 3839.9 | 3263.6 | 2558.8 | 2139.5 | 1951.8 | 1844.2 | 1824.4 | 1837.6 | 1857.4 |
| 4139.6 | 20° | 4050.6 | 3810.2 | 3037.4 | 2286.6 | 1968.2 | 1812.4 | 1767.4 | 1780.5 | 1812.4 | 1840.9 |
| 4234.0 | 22.5° | 4088.0 | 3756.5 | 2764.1 | 2074.7 | 1820.0 | 1732.2 | 1730.0 | 1757.5 | 1775.0 | 1789.3 |
| 4344.8 | 25° | 4120.9 | 3665.3 | 2474.3 | 1896.9 | 1698.2 | 1683.9 | 1708.1 | 1699.3 | 1687.2 | 1699.3 |
| 4455.7 | 27.5° | 4145.1 | 3521.5 | 2215.2 | 1741.0 | 1612.6 | 1651.0 | 1636.7 | 1617.0 | 1615.9 | 1622.5 |
| 4586.3 | 30° | 4137.4 | 3329.4 | 2002.3 | 1592.8 | 1552.2 | 1589.5 | 1555.5 | 1552.2 | 1548.9 | 1552.2 |
| 4782.8 | 32.5° | 4137.4 | 3111.0 | 1838.7 | 1490.7 | 1513.8 | 1499.5 | 1496.2 | 1488.5 | 1475.4 | 1474.3 |
| 5049.6 | 35° | 4160.4 | 2892.5 | 1698.2 | 1435.8 | 1481.9 | 1447.9 | 1450.1 | 1431.4 | 1404.0 | 1390.8 |
| 5403.1 | 37.5° | 4207.6 | 2716.9 | 1558.8 | 1409.5 | 1426.0 | 1424.9 | 1416.1 | 1384.2 | 1335.9 | 1294.2 |
| 5844.3 | 40° | 4321.8 | 2665.3 | 1463.3 | 1397.4 | 1399.6 | 1412.8 | 1389.7 | 1328.3 | 1218.5 | 1150.4 |
| 6292.2 | 42.5° | 4500.7 | 2752.0 | 1442.4 | 1367.8 | 1382.0 | 1395.2 | 1350.2 | 1207.5 | 1129.6 | 1089.0 |
| 6762.1 | 45° | 4727.9 | 2903.5 | 1487.4 | 1325.0 | 1340.3 | 1363.4 | 1229.5 | 1161.4 | 1126.3 | 1127.4 |
| 7227.5 | 47.5° | 5015.6 | 3062.7 | 1570.9 | 1287.6 | 1280.0 | 1293.1 | 1149.3 | 1107.6 | 1059.3 | 1071.4 |
| 7674.3 | 50° | 5348.2 | 3224.1 | 1649.9 | 1237.1 | 1213.0 | 1170.2 | 1097.7 | 1058.2 | 996.7 | 968.2 |
| 8105.7 | 52.5° | 5708.2 | 3379.9 | 1681.7 | 1175.7 | 1140.5 | 1091.1 | 1062.6 | 1014.3 | 939.7 | 892.5 |
| 8512.9 | 55° | 6049.6 | 3521.5 | 1646.6 | 1102.1 | 1068.1 | 1029.7 | 1025.3 | 995.6 | 915.5 | 849.6 |
| 8875.2 | 57.5° | 6372.4 | 3640.1 | 1558.8 | 1027.5 | 994.5 | 971.5 | 1001.1 | 986.9 | 885.9 | 801.3 |
| 9217.7 | 60° | 6645.7 | 3721.3 | 1431.4 | 951.7 | 928.7 | 916.6 | 961.6 | 957.2 | 844.2 | 749.8 |
| 9525.1 | 62.5° | 6863.0 | 3753.2 | 1290.9 | 879.3 | 873.8 | 851.8 | 906.7 | 906.7 | 791.5 | 699.3 |
| 9795.1 | 65° | 7033.2 | 3722.4 | 1148.2 | 807.9 | 818.9 | 786.0 | 839.8 | 833.2 | 735.5 | 654.3 |
| 10105.8 | 67.5° | 7183.6 | 3621.4 | 990.2 | 737.7 | 762.9 | 721.2 | 769.5 | 754.1 | 674.0 | 609.2 |
| 10374.7 | 70° | 7250.5 | 3386.5 | 810.1 | 667.4 | 698.2 | 657.5 | 699.3 | 670.7 | 604.9 | 560.9 |
| 10079.4 | 72.5° | 6712.7 | 2814.6 | 637.8 | 593.9 | 620.2 | 587.3 | 623.5 | 590.6 | 530.2 | 510.4 |
| 8704.0 | 75° | 5553.4 | 2112.0 | 490.7 | 513.7 | 533.5 | 508.3 | 532.4 | 508.3 | 453.4 | 467.6 |
| 6429.4 | 77.5° | 4033.1 | 1426.0 | 375.4 | 429.2 | 438.0 | 424.8 | 445.7 | 418.2 | 368.8 | 365.5 |
| 3204.3 | 80° | 2005.6 | 835.4 | 294.2 | 339.2 | 335.9 | 327.1 | 351.3 | 338.1 | 296.4 | 314.0 |
| 865.0 | 82.5° | 580.7 | 357.9 | 214.1 | 238.2 | 231.6 | 233.8 | 251.4 | 258.0 | 386.4 | 383.1 |
| 268.9 | 85° | 182.2 | 140.5 | 128.4 | 132.8 | 126.2 | 129.5 | 148.2 | 294.2 | 272.2 | 159.2 |
| 83.4 | 87.5° | 47.2 | 48.3 | 31.8 | 34.0 | 35.1 | 41.7 | 47.2 | 178.9 | 85.6 | 56.0 |
| 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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| <u>180°</u> |
|-------------|
| 3745.5 |
| 3566.5 |
| 3182.3 |
| 2652.1 |
| 2240.5 |
| 2049.5 |
| 1912.3 |
| 1865.1 |
| 1850.8 |
| 1797.0 |
| 1707.0 |
| 1633.4 |
| 1564.3 |
| 1488.5 |
| 1404.0 |
| 1308.5 |
| 1159.2 |
| 1089.0 |
| 1132.9 |
| 1102.1 |
| 975.9 |
| 891.4 |
| 849.6 |
| 797.0 |
| 746.5 |
| 696.0 |
| 649.9 |
| 604.9 |
| 552.2 |
| 494.0 |
| 427.0 |
| 349.1 |
| 310.7 |
| 391.9 |
| 172.3 |
| 59.3 |
| 0.0 |

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