

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: P942435

Luminaire Tested: **GALN-SB6B-940-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6B-940-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24518 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

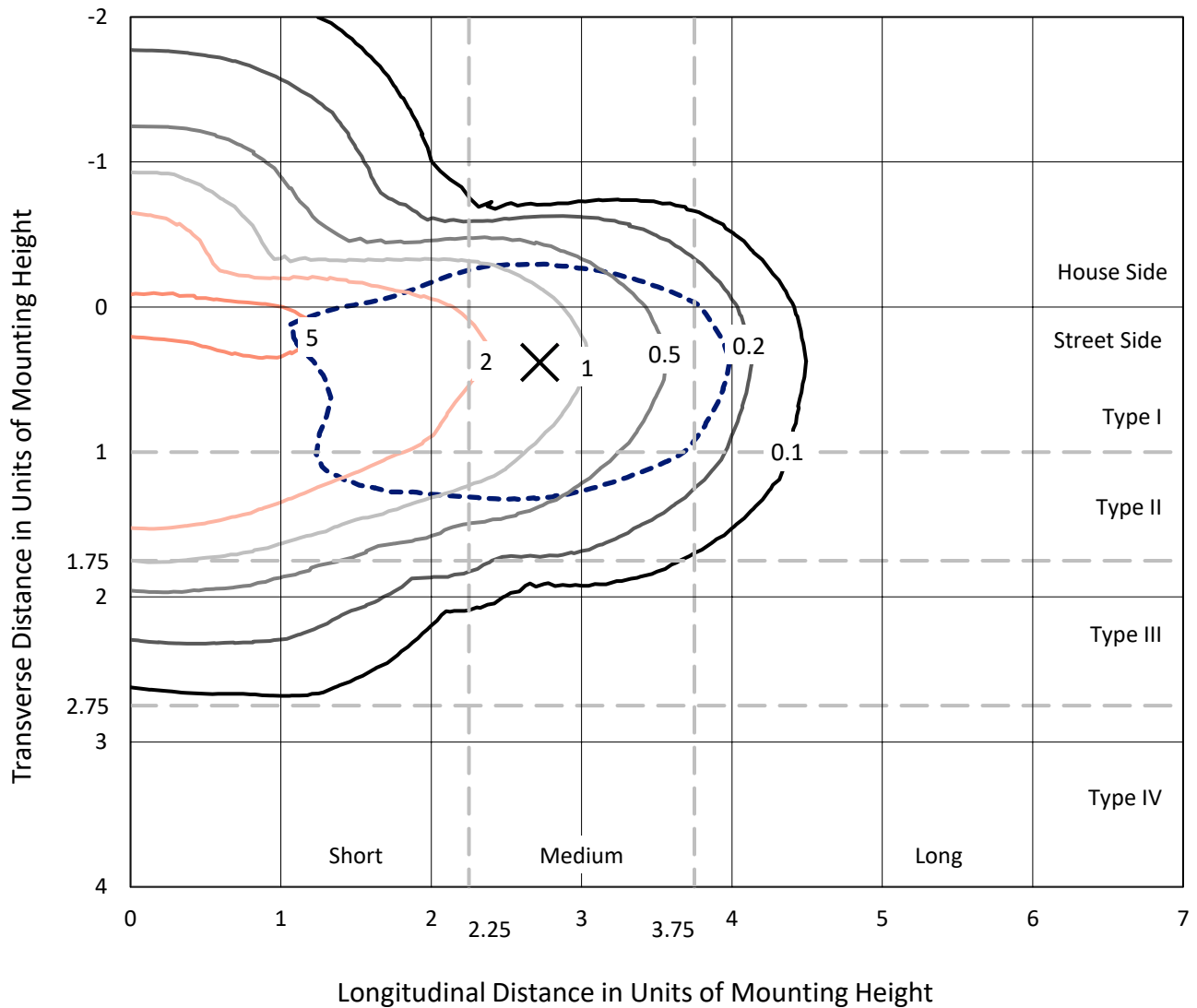
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

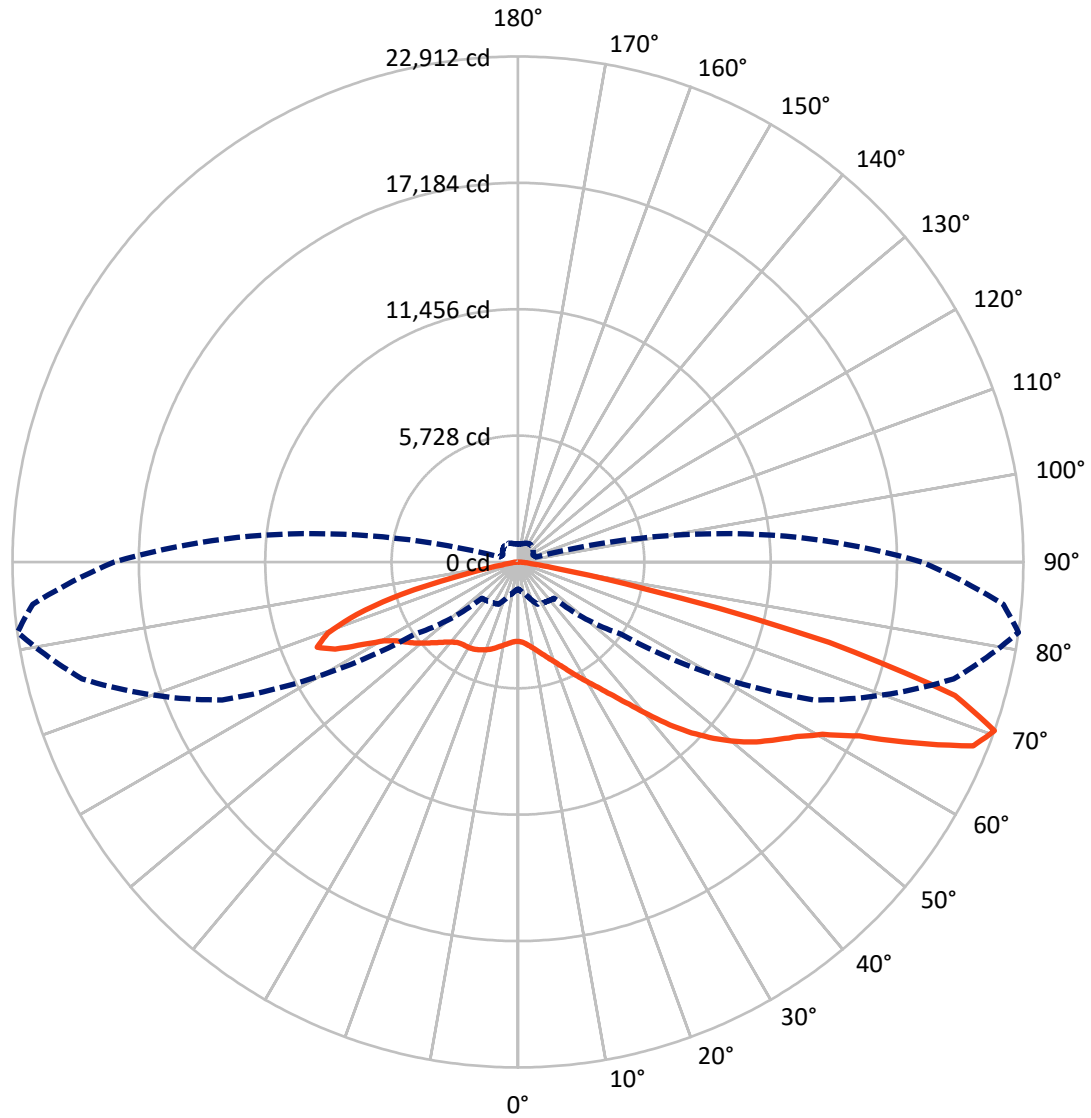
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6044.3 | 0.0 | 6044.3 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 18473.7 | 0.0 | 18473.7 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 24518.0 | 0.0 | 24518.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 339.4 | 1.4 |
| 10°-20° | 975.1 | 4.0 |
| 20°-30° | 1631.3 | 6.7 |
| 30°-40° | 2548.5 | 10.4 |
| 40°-50° | 4058.7 | 16.6 |
| 50°-60° | 5648.2 | 23.0 |
| 60°-70° | 5908.3 | 24.1 |
| 70°-80° | 3088.0 | 12.6 |
| 80°-90° | 320.7 | 1.3 |
| 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° | 24518.0 | 100.0 |
| 0°-180° | 24518.0 | 100.0 |

Coefficient of Utilization



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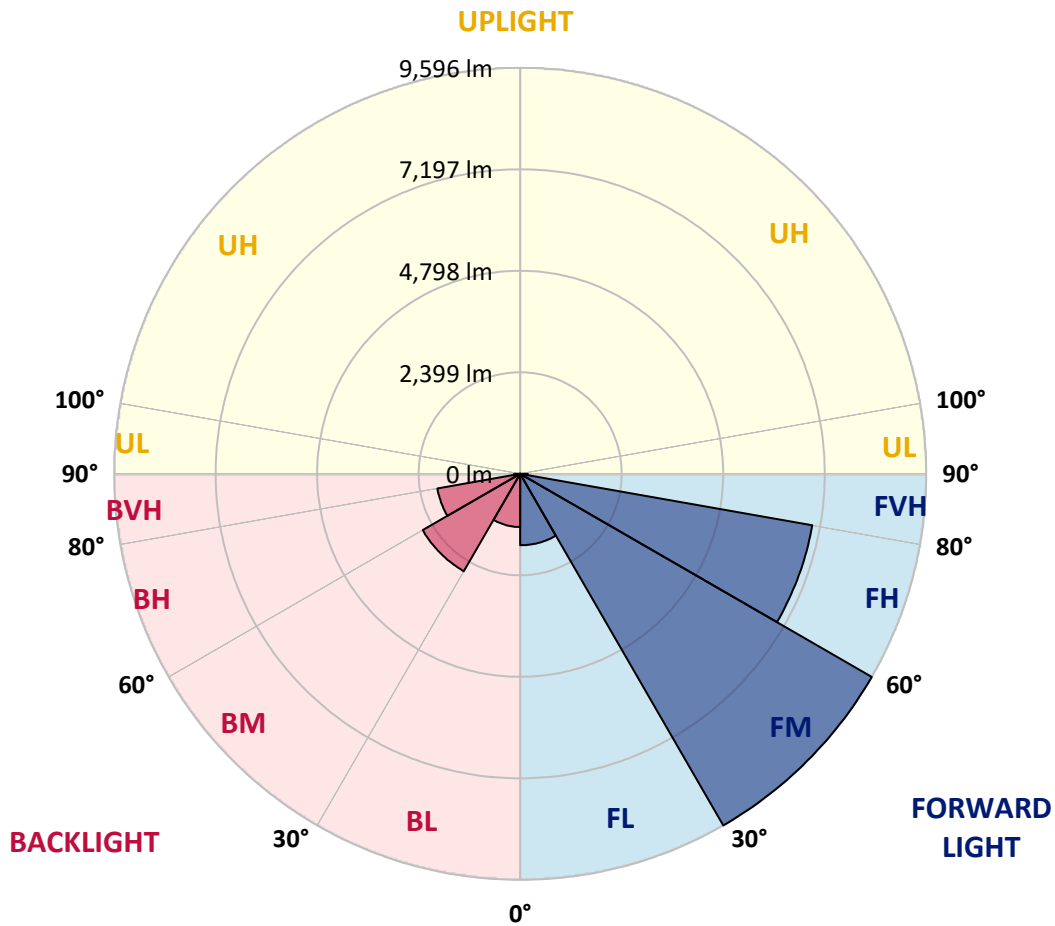
CATALOG NUMBER: GALN-SB6B-940-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1688.3 | 6.9 | | | |
| FM (30°-60°) | 9596.1 | 39.1 | | | |
| FH (60°-80°) | 7009.8 | 28.6 | | | G3/7500 |
| FVH (80°-90°) | 179.5 | 0.7 | | | G2/225 |
| BL (0°-30°) | 1257.4 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 2659.2 | 10.8 | B3/5000 | | |
| BH (60°-80°) | 1986.5 | 8.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 141.1 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 3594.6 | 3594.6 | 3594.6 | 3594.6 | 3594.6 | 3594.6 | 3594.6 | 3594.6 | 3594.6 | 3594.6 |
| 2.5° | 3680.5 | 3701.3 | 3694.8 | 3688.3 | 3688.3 | 3679.2 | 3677.9 | 3664.9 | 3654.5 | 3637.6 |
| 5° | 3727.3 | 3749.5 | 3746.9 | 3752.1 | 3769.0 | 3772.9 | 3776.8 | 3769.0 | 3748.2 | 3727.3 |
| 7.5° | 3685.7 | 3710.4 | 3718.2 | 3749.5 | 3801.5 | 3848.3 | 3883.5 | 3897.8 | 3878.3 | 3848.3 |
| 10° | 3545.2 | 3572.5 | 3599.8 | 3674.0 | 3766.4 | 3877.0 | 3970.6 | 4026.6 | 4022.7 | 3994.1 |
| 12.5° | 3260.3 | 3288.9 | 3347.5 | 3491.9 | 3661.0 | 3856.1 | 4030.5 | 4147.6 | 4187.9 | 4167.1 |
| 15° | 3032.6 | 3057.3 | 3101.6 | 3249.9 | 3469.7 | 3766.4 | 4052.6 | 4280.3 | 4383.0 | 4371.3 |
| 17.5° | 3026.1 | 3036.5 | 3063.8 | 3134.1 | 3303.2 | 3625.9 | 4029.2 | 4410.4 | 4606.8 | 4605.5 |
| 20° | 3140.6 | 3144.5 | 3160.1 | 3174.4 | 3270.7 | 3519.2 | 3969.3 | 4518.4 | 4857.9 | 4857.9 |
| 22.5° | 3299.3 | 3296.7 | 3312.3 | 3299.3 | 3346.2 | 3510.1 | 3931.6 | 4613.3 | 5137.6 | 5158.4 |
| 25° | 3537.4 | 3524.4 | 3520.5 | 3490.6 | 3499.7 | 3594.6 | 3973.2 | 4721.3 | 5469.4 | 5512.3 |
| 27.5° | 3854.8 | 3834.0 | 3819.7 | 3750.8 | 3727.3 | 3769.0 | 4100.7 | 4851.4 | 5838.9 | 5913.0 |
| 30° | 4268.6 | 4230.8 | 4210.0 | 4090.3 | 4005.8 | 4012.3 | 4293.3 | 5024.4 | 6225.3 | 6344.9 |
| 32.5° | 4833.2 | 4774.6 | 4718.7 | 4522.3 | 4367.4 | 4316.7 | 4541.8 | 5263.8 | 6644.2 | 6835.4 |
| 35° | 5465.5 | 5418.6 | 5358.8 | 5055.7 | 4817.6 | 4700.5 | 4877.4 | 5598.2 | 7134.6 | 7437.8 |
| 37.5° | 6074.3 | 6034.0 | 6062.6 | 5654.1 | 5347.1 | 5176.7 | 5317.2 | 6047.0 | 7739.6 | 8187.2 |
| 40° | 6704.0 | 6672.8 | 6676.7 | 6286.4 | 5928.6 | 5737.4 | 5850.6 | 6610.3 | 8433.0 | 9078.3 |
| 42.5° | 7388.3 | 7364.9 | 7286.9 | 6940.8 | 6538.8 | 6360.6 | 6464.6 | 7260.8 | 9177.2 | 10093.1 |
| 45° | 8154.6 | 8140.3 | 8067.5 | 7670.7 | 7210.1 | 7009.8 | 7150.3 | 7979.0 | 9925.3 | 11048.0 |
| 47.5° | 8816.8 | 8828.5 | 8819.4 | 8485.1 | 8007.6 | 7713.6 | 7881.4 | 8728.4 | 10621.3 | 11945.7 |
| 50° | 9135.6 | 9196.7 | 9286.5 | 9182.4 | 8885.8 | 8586.6 | 8619.1 | 9451.7 | 11284.8 | 12787.5 |
| 52.5° | 8969.1 | 9084.8 | 9329.4 | 9496.0 | 9610.4 | 9548.0 | 9460.8 | 10169.9 | 11909.3 | 13547.2 |
| 55° | 8348.5 | 8511.1 | 8917.0 | 9319.0 | 9903.2 | 10357.2 | 10471.7 | 10966.1 | 12518.2 | 14216.0 |
| 57.5° | 7217.9 | 7482.0 | 7846.3 | 8659.4 | 9643.0 | 10748.8 | 11650.4 | 12070.6 | 13163.5 | 14930.2 |
| 60° | 5279.4 | 5633.3 | 6086.0 | 7296.0 | 8732.3 | 10539.3 | 12653.5 | 13767.1 | 14080.7 | 15855.2 |
| 62.5° | 3378.7 | 3597.2 | 4013.6 | 5153.2 | 6804.2 | 9466.0 | 12960.5 | 15887.7 | 15635.3 | 17372.2 |
| 65° | 2313.2 | 2453.7 | 2834.9 | 3475.0 | 4398.7 | 7046.2 | 12138.3 | 17477.5 | 18104.6 | 19776.4 |
| 67.5° | 1680.9 | 1787.6 | 2112.8 | 2673.5 | 2866.1 | 4169.7 | 9419.2 | 17404.7 | 20505.0 | 22253.5 |
| 70° | 1225.5 | 1301.0 | 1574.2 | 2112.8 | 2205.2 | 2319.7 | 5706.2 | 14794.9 | 20452.9 | 22911.8 |
| 72.5° | 908.1 | 960.1 | 1143.6 | 1639.3 | 1785.0 | 1566.4 | 2824.5 | 10752.7 | 17575.1 | 20723.5 |
| 75° | 657.0 | 696.0 | 831.3 | 1254.2 | 1428.5 | 1193.0 | 1409.0 | 6283.8 | 12259.3 | 14577.6 |
| 77.5° | 502.2 | 532.1 | 620.6 | 918.5 | 1143.6 | 895.1 | 874.3 | 2890.8 | 5812.8 | 5841.5 |
| 80° | 403.3 | 422.8 | 471.0 | 646.6 | 876.9 | 670.0 | 569.8 | 1167.0 | 1837.0 | 1554.7 |
| 82.5° | 296.6 | 329.2 | 398.1 | 454.0 | 627.1 | 461.9 | 347.4 | 589.4 | 698.6 | 601.1 |
| 85° | 169.1 | 191.2 | 240.7 | 325.2 | 400.7 | 282.3 | 199.1 | 261.5 | 325.2 | 266.7 |
| 87.5° | 59.8 | 78.1 | 84.6 | 127.5 | 174.3 | 117.1 | 76.8 | 75.5 | 106.7 | 79.4 |
| 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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 CATALOG NUMBER: GALN-SB6B-940-U-T2

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3594.6 | 0° | 3594.6 | 3594.6 | 3594.6 | 3594.6 | 3594.6 | 3594.6 | 3594.6 | 3594.6 | 3594.6 | 3594.6 |
| 3633.7 | 2.5° | 3620.7 | 3614.2 | 3588.1 | 3553.0 | 3516.6 | 3481.5 | 3469.7 | 3445.0 | 3428.1 | 3419.0 |
| 3718.2 | 5° | 3693.5 | 3672.7 | 3611.6 | 3533.5 | 3451.5 | 3363.1 | 3300.6 | 3243.4 | 3201.7 | 3162.7 |
| 3834.0 | 7.5° | 3797.6 | 3761.2 | 3655.8 | 3519.2 | 3373.5 | 3226.5 | 3117.2 | 3033.9 | 2978.0 | 2941.5 |
| 3969.3 | 10° | 3918.6 | 3862.7 | 3701.3 | 3497.1 | 3272.0 | 3061.2 | 2932.4 | 2860.9 | 2825.8 | 2806.2 |
| 4124.1 | 12.5° | 4057.8 | 3978.4 | 3748.2 | 3446.3 | 3117.2 | 2876.5 | 2788.0 | 2767.2 | 2768.5 | 2769.8 |
| 4319.3 | 15° | 4229.5 | 4118.9 | 3785.9 | 3335.7 | 2915.5 | 2734.7 | 2719.1 | 2752.9 | 2788.0 | 2804.9 |
| 4540.5 | 17.5° | 4423.4 | 4267.3 | 3792.4 | 3153.6 | 2717.8 | 2643.6 | 2693.1 | 2765.9 | 2819.3 | 2842.7 |
| 4787.7 | 20° | 4631.5 | 4418.2 | 3745.6 | 2896.0 | 2555.2 | 2569.5 | 2657.9 | 2751.6 | 2810.1 | 2840.1 |
| 5070.0 | 22.5° | 4869.6 | 4579.5 | 3633.7 | 2625.4 | 2422.5 | 2488.8 | 2592.9 | 2683.9 | 2745.1 | 2775.0 |
| 5401.7 | 25° | 5141.5 | 4760.3 | 3458.0 | 2397.7 | 2308.0 | 2397.7 | 2501.8 | 2577.3 | 2626.7 | 2654.0 |
| 5772.5 | 27.5° | 5443.4 | 4949.0 | 3223.9 | 2216.9 | 2207.8 | 2304.1 | 2389.9 | 2448.5 | 2474.5 | 2495.3 |
| 6166.7 | 30° | 5746.5 | 5120.7 | 2940.2 | 2080.3 | 2120.6 | 2211.7 | 2272.8 | 2298.9 | 2306.7 | 2310.6 |
| 6606.4 | 32.5° | 6074.3 | 5269.0 | 2642.3 | 1967.1 | 2037.4 | 2121.9 | 2158.3 | 2170.1 | 2133.6 | 2108.9 |
| 7139.9 | 35° | 6471.1 | 5427.7 | 2350.9 | 1877.3 | 1955.4 | 2028.2 | 2040.0 | 2029.6 | 1986.6 | 1935.9 |
| 7808.6 | 37.5° | 6961.6 | 5625.5 | 2118.0 | 1813.6 | 1878.6 | 1926.8 | 1912.5 | 1909.9 | 1913.8 | 1853.9 |
| 8612.6 | 40° | 7562.7 | 5883.1 | 1947.6 | 1764.1 | 1816.2 | 1826.6 | 1786.3 | 1808.4 | 1827.9 | 1736.8 |
| 9494.7 | 42.5° | 8230.1 | 6194.0 | 1839.6 | 1730.3 | 1764.1 | 1739.4 | 1677.0 | 1701.7 | 1699.1 | 1579.4 |
| 10380.6 | 45° | 8910.5 | 6532.3 | 1801.9 | 1705.6 | 1716.0 | 1666.6 | 1597.6 | 1604.1 | 1549.5 | 1441.5 |
| 11230.2 | 47.5° | 9587.0 | 6895.3 | 1825.3 | 1684.8 | 1656.2 | 1600.2 | 1546.9 | 1518.3 | 1437.6 | 1356.9 |
| 12044.6 | 50° | 10250.5 | 7276.5 | 1911.2 | 1643.2 | 1574.2 | 1541.7 | 1502.6 | 1451.9 | 1366.0 | 1297.1 |
| 12814.8 | 52.5° | 10865.9 | 7660.3 | 2007.4 | 1574.2 | 1471.4 | 1490.9 | 1466.2 | 1407.7 | 1323.1 | 1252.9 |
| 13543.3 | 55° | 11448.7 | 8044.0 | 2045.2 | 1479.2 | 1375.2 | 1446.7 | 1432.4 | 1324.4 | 1222.9 | 1165.7 |
| 14305.7 | 57.5° | 12083.6 | 8505.9 | 2003.5 | 1358.2 | 1297.1 | 1396.0 | 1341.3 | 1221.6 | 1163.1 | 1120.2 |
| 15298.4 | 60° | 12963.1 | 9230.5 | 1913.8 | 1208.6 | 1222.9 | 1320.5 | 1226.8 | 1177.4 | 1113.7 | 1065.5 |
| 16786.7 | 62.5° | 14424.1 | 10582.3 | 1769.4 | 1060.3 | 1135.8 | 1208.6 | 1172.2 | 1122.8 | 1057.7 | 1010.9 |
| 19331.5 | 65° | 16583.8 | 12460.9 | 1497.4 | 944.5 | 1038.2 | 1099.3 | 1113.7 | 1064.2 | 996.6 | 947.1 |
| 21561.4 | 67.5° | 18405.2 | 13639.6 | 1133.2 | 848.2 | 938.0 | 1010.9 | 1051.2 | 1003.1 | 931.5 | 883.4 |
| 22083.1 | 70° | 18305.0 | 12783.6 | 865.2 | 753.3 | 849.5 | 923.7 | 975.7 | 938.0 | 861.3 | 815.7 |
| 20058.7 | 72.5° | 16258.5 | 10694.2 | 699.9 | 657.0 | 759.8 | 832.6 | 895.1 | 866.5 | 788.4 | 744.2 |
| 14694.7 | 75° | 11944.4 | 7591.3 | 559.4 | 559.4 | 647.9 | 737.7 | 806.6 | 788.4 | 716.8 | 685.6 |
| 6169.3 | 77.5° | 5034.8 | 3184.8 | 438.4 | 464.5 | 538.6 | 633.6 | 719.4 | 726.0 | 663.5 | 702.5 |
| 1631.4 | 80° | 1338.7 | 878.2 | 334.4 | 365.6 | 422.8 | 523.0 | 625.8 | 623.2 | 555.5 | 519.1 |
| 606.3 | 82.5° | 510.0 | 346.1 | 238.1 | 257.6 | 305.7 | 400.7 | 495.7 | 511.3 | 443.6 | 383.8 |
| 238.1 | 85° | 196.5 | 148.3 | 147.0 | 154.8 | 178.2 | 265.4 | 374.7 | 387.7 | 334.4 | 283.6 |
| 66.4 | 87.5° | 50.7 | 44.2 | 54.6 | 52.0 | 82.0 | 141.8 | 214.7 | 222.5 | 204.3 | 118.4 |
| 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> |
|--------------|
| 3594.6 |
| 3429.4 |
| 3178.3 |
| 2949.4 |
| 2811.4 |
| 2772.4 |
| 2803.6 |
| 2847.9 |
| 2847.9 |
| 2782.8 |
| 2661.8 |
| 2503.1 |
| 2319.7 |
| 2116.7 |
| 1938.5 |
| 1857.8 |
| 1739.4 |
| 1578.1 |
| 1445.4 |
| 1356.9 |
| 1291.9 |
| 1254.2 |
| 1160.5 |
| 1116.3 |
| 1062.9 |
| 1010.9 |
| 949.7 |
| 884.7 |
| <i>819.6</i> |
| 744.2 |
| 676.5 |
| 637.5 |
| 482.7 |
| 383.8 |
| 292.7 |
| 169.1 |
| 0.0 |

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