

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: P950623

Luminaire Tested: **GALN-SB5A-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950623
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-735-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23262 lumens
Efficiency: N/A
Efficacy: 164.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

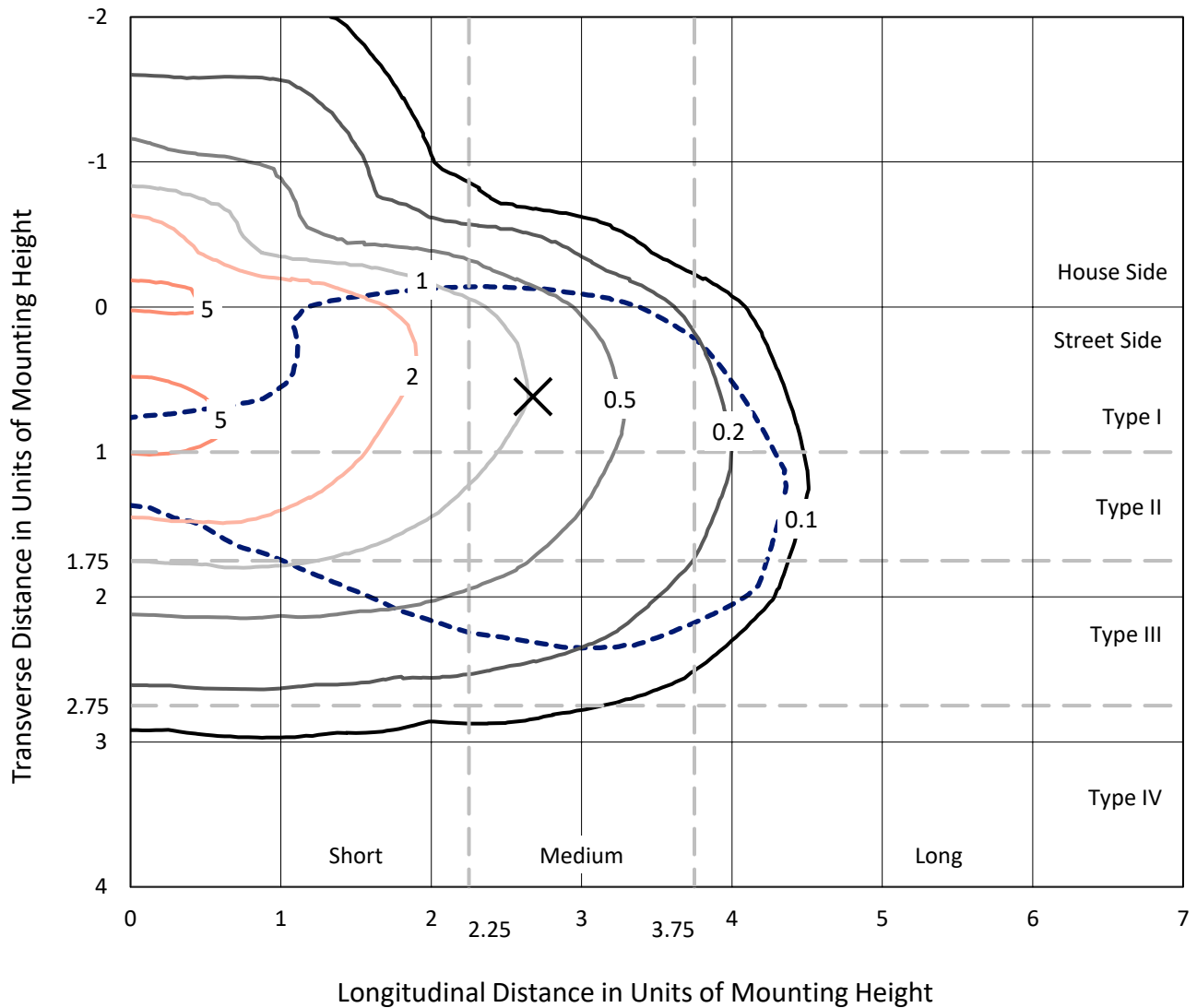
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

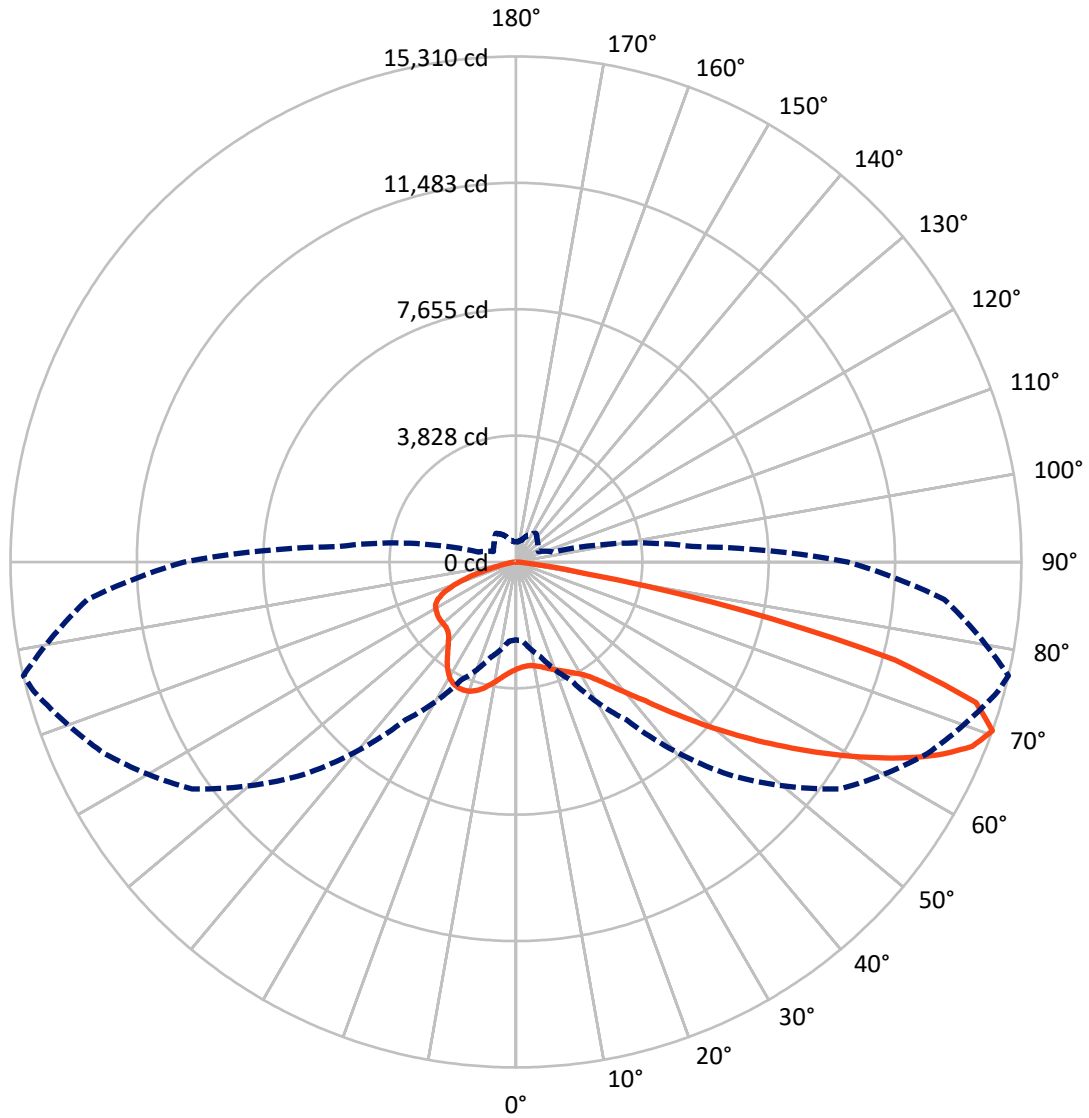
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5094.0 | 0.0 | 5094.0 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 18168.0 | 0.0 | 18168.0 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 23262.0 | 0.0 | 23262.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 309.5 | 1.3 |
| 10°-20° | 893.3 | 3.8 |
| 20°-30° | 1527.6 | 6.6 |
| 30°-40° | 2456.6 | 10.6 |
| 40°-50° | 3835.4 | 16.5 |
| 50°-60° | 5123.1 | 22.0 |
| 60°-70° | 5460.5 | 23.5 |
| 70°-80° | 3361.4 | 14.5 |
| 80°-90° | 294.6 | 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° | 23262.0 | 100.0 |
| 0°-180° | 23262.0 | 100.0 |



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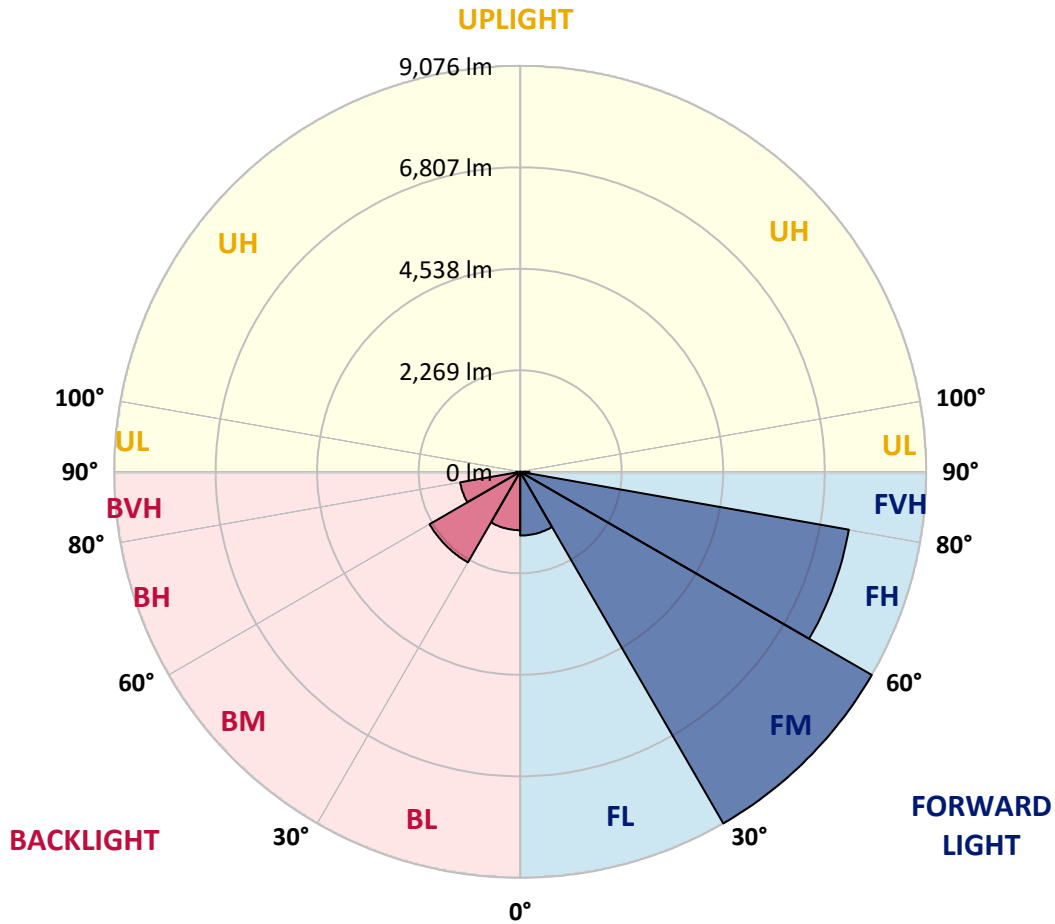
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1425.2 | 6.1 | | | |
| FM (30°-60°) | 9076.3 | 39.0 | | | |
| FH (60°-80°) | 7460.5 | 32.1 | | | G3/7500 |
| FVH (80°-90°) | 206.0 | 0.9 | | | G2/225 |
| BL (0°-30°) | 1305.2 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 2338.8 | 10.1 | B2/2500 | | |
| BH (60°-80°) | 1361.4 | 5.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 88.6 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3245.3 | 3245.3 | 3245.3 | 3245.3 | 3245.3 | 3245.3 | 3245.3 | 3245.3 | 3245.3 | 3245.3 |
| 2.5° | 2991.5 | 2990.3 | 3005.8 | 3010.6 | 3039.2 | 3059.4 | 3097.5 | 3138.0 | 3190.5 | 3196.4 |
| 5° | 2818.8 | 2818.8 | 2836.6 | 2855.7 | 2892.6 | 2933.1 | 2991.5 | 3061.8 | 3152.3 | 3166.6 |
| 7.5° | 2672.2 | 2681.7 | 2697.2 | 2734.2 | 2777.1 | 2835.4 | 2924.8 | 3024.9 | 3144.0 | 3166.6 |
| 10° | 2554.3 | 2565.0 | 2584.1 | 2613.8 | 2678.2 | 2759.2 | 2875.9 | 3004.6 | 3164.2 | 3200.0 |
| 12.5° | 2517.3 | 2528.1 | 2538.8 | 2561.4 | 2621.0 | 2716.3 | 2855.7 | 3014.1 | 3213.1 | 3248.8 |
| 15° | 2603.1 | 2616.2 | 2607.9 | 2601.9 | 2632.9 | 2719.9 | 2865.2 | 3048.7 | 3273.9 | 3325.1 |
| 17.5° | 2800.9 | 2805.6 | 2786.6 | 2730.6 | 2725.8 | 2772.3 | 2910.5 | 3096.3 | 3350.1 | 3406.1 |
| 20° | 3120.2 | 3111.8 | 3072.5 | 2961.7 | 2898.6 | 2889.0 | 2987.9 | 3167.8 | 3428.7 | 3488.3 |
| 22.5° | 3553.8 | 3544.3 | 3465.7 | 3290.5 | 3150.0 | 3057.0 | 3099.9 | 3260.7 | 3516.9 | 3583.6 |
| 25° | 4094.7 | 4081.6 | 3966.0 | 3727.8 | 3509.7 | 3279.8 | 3252.4 | 3383.5 | 3625.3 | 3687.3 |
| 27.5° | 4726.1 | 4715.4 | 4590.3 | 4275.8 | 3961.3 | 3584.8 | 3441.8 | 3527.6 | 3738.5 | 3808.8 |
| 30° | 5405.2 | 5436.2 | 5214.6 | 4876.2 | 4478.3 | 3982.7 | 3696.8 | 3705.1 | 3885.0 | 3948.2 |
| 32.5° | 6203.4 | 6257.0 | 5990.2 | 5561.3 | 5018.0 | 4415.2 | 4018.5 | 3952.9 | 4098.3 | 4150.7 |
| 35° | 6994.5 | 7055.2 | 6833.6 | 6359.5 | 5734.0 | 4925.1 | 4354.4 | 4237.7 | 4381.8 | 4439.0 |
| 37.5° | 7678.3 | 7759.3 | 7644.9 | 7232.7 | 6500.1 | 5539.8 | 4792.8 | 4572.4 | 4730.9 | 4802.4 |
| 40° | 8218.0 | 8341.9 | 8333.6 | 8076.2 | 7403.1 | 6285.6 | 5349.2 | 4985.8 | 5164.5 | 5242.0 |
| 42.5° | 8656.4 | 8763.6 | 8856.6 | 8843.5 | 8345.5 | 7132.7 | 6003.3 | 5523.1 | 5659.0 | 5748.3 |
| 45° | 8959.0 | 9073.4 | 9273.5 | 9489.2 | 9252.1 | 8039.3 | 6752.6 | 6160.5 | 6284.4 | 6419.0 |
| 47.5° | 9229.5 | 9359.3 | 9619.0 | 9961.0 | 10021.7 | 8949.5 | 7573.5 | 6902.7 | 7015.9 | 7155.3 |
| 50° | 9253.3 | 9365.3 | 9768.0 | 10252.8 | 10568.5 | 9823.9 | 8455.1 | 7735.5 | 7841.5 | 7990.4 |
| 52.5° | 8677.9 | 8854.2 | 9557.1 | 10244.5 | 10819.9 | 10555.4 | 9330.7 | 8601.6 | 8720.7 | 8899.4 |
| 55° | 6735.9 | 6994.5 | 8938.8 | 9925.2 | 10730.6 | 11028.4 | 10163.5 | 9522.5 | 9675.0 | 9862.1 |
| 57.5° | 5801.9 | 5915.1 | 7095.7 | 9343.8 | 10323.1 | 11151.1 | 10866.4 | 10453.0 | 10698.4 | 10903.3 |
| 60° | 5214.6 | 5308.7 | 6006.8 | 8439.6 | 9787.0 | 10956.9 | 11409.6 | 11320.3 | 11744.4 | 11988.6 |
| 62.5° | 4585.5 | 4674.9 | 5309.9 | 7046.9 | 9100.8 | 10634.1 | 11752.8 | 12120.9 | 12816.6 | 13083.5 |
| 65° | 3961.3 | 4037.5 | 4646.3 | 5921.1 | 8228.7 | 10311.2 | 11930.3 | 12813.1 | 13809.0 | 14085.4 |
| 67.5° | 3265.5 | 3328.7 | 3904.1 | 4995.4 | 7168.4 | 9869.2 | 12018.4 | 13357.5 | 14672.8 | 14909.9 |
| 70° | 2356.5 | 2405.4 | 2999.8 | 3950.5 | 5837.7 | 9109.1 | 11982.7 | 13743.5 | 15120.7 | 15310.2 |
| 72.5° | 1113.9 | 1158.0 | 1856.1 | 2565.0 | 4123.3 | 7629.5 | 11259.5 | 13437.3 | 14665.6 | 14571.5 |
| 75° | 594.5 | 632.6 | 1066.3 | 1407.0 | 2177.8 | 5230.1 | 9214.0 | 11575.2 | 12315.1 | 11857.6 |
| 77.5° | 402.7 | 432.5 | 660.0 | 844.7 | 994.8 | 2482.8 | 5922.2 | 8014.3 | 7710.5 | 6955.2 |
| 80° | 319.3 | 350.3 | 540.9 | 571.9 | 481.3 | 897.1 | 2447.1 | 3709.9 | 2665.1 | 2131.3 |
| 82.5° | 245.4 | 280.0 | 455.1 | 414.6 | 262.1 | 368.1 | 712.4 | 1173.5 | 682.6 | 519.4 |
| 85° | 150.1 | 187.0 | 357.4 | 264.5 | 147.7 | 168.0 | 241.8 | 326.4 | 208.5 | 173.9 |
| 87.5° | 76.2 | 107.2 | 181.1 | 96.5 | 66.7 | 39.3 | 64.3 | 64.3 | 54.8 | 47.7 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3245.3 | 0° | 3245.3 | 3245.3 | 3245.3 | 3245.3 | 3245.3 | 3245.3 | 3245.3 | 3245.3 | 3245.3 | 3245.3 |
| 3228.6 | 2.5° | 3257.2 | 3281.0 | 3321.5 | 3359.6 | 3389.4 | 3418.0 | 3446.6 | 3462.1 | 3466.9 | 3485.9 |
| 3246.5 | 5° | 3295.3 | 3339.4 | 3418.0 | 3491.9 | 3538.3 | 3566.9 | 3587.2 | 3599.1 | 3601.5 | 3607.4 |
| 3295.3 | 7.5° | 3365.6 | 3435.9 | 3545.5 | 3619.3 | 3653.9 | 3651.5 | 3643.2 | 3613.4 | 3601.5 | 3590.8 |
| 3366.8 | 10° | 3464.5 | 3557.4 | 3692.0 | 3743.2 | 3721.8 | 3664.6 | 3590.8 | 3503.8 | 3463.3 | 3424.0 |
| 3464.5 | 12.5° | 3587.2 | 3705.1 | 3837.4 | 3835.0 | 3729.0 | 3582.4 | 3410.9 | 3277.4 | 3192.8 | 3132.1 |
| 3584.8 | 15° | 3736.1 | 3871.9 | 3973.2 | 3892.2 | 3659.9 | 3396.6 | 3145.2 | 2971.2 | 2895.0 | 2828.3 |
| 3706.3 | 17.5° | 3889.8 | 4035.1 | 4081.6 | 3874.3 | 3485.9 | 3121.4 | 2836.6 | 2699.6 | 2624.6 | 2588.8 |
| 3837.4 | 20° | 4039.9 | 4184.1 | 4145.9 | 3771.8 | 3221.4 | 2809.2 | 2555.5 | 2480.4 | 2464.9 | 2473.3 |
| 3964.8 | 22.5° | 4198.3 | 4327.0 | 4159.0 | 3574.1 | 2884.3 | 2489.9 | 2350.6 | 2352.9 | 2387.5 | 2412.5 |
| 4098.3 | 25° | 4360.4 | 4447.3 | 4124.5 | 3288.2 | 2522.1 | 2255.2 | 2220.7 | 2258.8 | 2326.7 | 2375.6 |
| 4248.4 | 27.5° | 4516.4 | 4554.6 | 4049.4 | 2934.3 | 2211.2 | 2087.3 | 2093.2 | 2171.8 | 2274.3 | 2342.2 |
| 4430.7 | 30° | 4692.8 | 4649.9 | 3905.3 | 2536.4 | 1995.5 | 1943.1 | 1993.1 | 2084.9 | 2187.3 | 2248.1 |
| 4660.6 | 32.5° | 4891.7 | 4732.1 | 3676.5 | 2168.3 | 1843.0 | 1827.5 | 1909.7 | 1969.3 | 2014.6 | 2032.5 |
| 4965.6 | 35° | 5139.5 | 4847.6 | 3383.5 | 1909.7 | 1706.0 | 1743.0 | 1821.6 | 1791.8 | 1773.9 | 1764.4 |
| 5375.4 | 37.5° | 5461.2 | 5003.7 | 3040.3 | 1741.8 | 1595.2 | 1682.2 | 1714.4 | 1621.4 | 1551.1 | 1516.6 |
| 5872.2 | 40° | 5848.4 | 5232.4 | 2710.3 | 1611.9 | 1524.9 | 1629.8 | 1573.8 | 1461.8 | 1372.4 | 1323.6 |
| 6431.0 | 42.5° | 6278.5 | 5471.9 | 2432.8 | 1514.2 | 1485.6 | 1586.9 | 1470.1 | 1336.7 | 1192.6 | 1177.1 |
| 7096.9 | 45° | 6730.0 | 5718.5 | 2243.3 | 1439.2 | 1466.6 | 1550.0 | 1410.6 | 1194.9 | 1092.5 | 1155.6 |
| 7765.3 | 47.5° | 7181.5 | 5944.9 | 2129.0 | 1383.2 | 1457.0 | 1508.3 | 1358.1 | 1116.3 | 1043.6 | 1135.4 |
| 8481.3 | 50° | 7684.3 | 6147.4 | 2077.7 | 1342.7 | 1446.3 | 1491.6 | 1279.5 | 1096.1 | 992.4 | 1053.2 |
| 9222.3 | 52.5° | 8183.4 | 6304.7 | 2039.6 | 1302.2 | 1430.8 | 1478.5 | 1241.4 | 1072.2 | 930.5 | 934.0 |
| 9968.1 | 55° | 8681.4 | 6407.1 | 1997.9 | 1248.5 | 1396.3 | 1449.9 | 1237.8 | 1046.0 | 884.0 | 867.3 |
| 10756.8 | 57.5° | 9212.8 | 6465.5 | 1946.7 | 1189.0 | 1336.7 | 1377.2 | 1234.2 | 1025.8 | 869.7 | 842.3 |
| 11563.3 | 60° | 9753.7 | 6551.3 | 1880.0 | 1116.3 | 1256.9 | 1290.2 | 1225.9 | 1018.6 | 861.4 | 814.9 |
| 12323.4 | 62.5° | 10238.5 | 6581.1 | 1800.1 | 1047.2 | 1154.4 | 1204.5 | 1208.0 | 1012.7 | 838.7 | 758.9 |
| 12954.8 | 65° | 10556.6 | 6452.4 | 1660.8 | 968.6 | 1043.6 | 1116.3 | 1173.5 | 992.4 | 798.2 | 718.4 |
| 13267.0 | 67.5° | 10543.5 | 6085.5 | 1442.7 | 867.3 | 936.4 | 1018.6 | 1123.5 | 957.9 | 749.4 | 668.4 |
| 13031.1 | 70° | 10052.7 | 5361.1 | 1166.3 | 749.4 | 818.5 | 913.8 | 1059.1 | 906.6 | 691.0 | 613.5 |
| 11587.2 | 72.5° | 8621.9 | 4196.0 | 847.1 | 611.2 | 681.5 | 805.4 | 975.7 | 844.7 | 631.4 | 564.7 |
| 8563.5 | 75° | 6159.3 | 2655.5 | 574.2 | 469.4 | 530.2 | 682.6 | 872.1 | 772.0 | 576.6 | 567.1 |
| 4288.9 | 77.5° | 3146.4 | 1268.8 | 380.0 | 343.1 | 369.3 | 538.5 | 732.7 | 689.8 | 585.0 | 468.2 |
| 1220.0 | 80° | 1023.4 | 468.2 | 239.5 | 233.5 | 245.4 | 358.6 | 567.1 | 565.9 | 443.2 | 318.1 |
| 295.5 | 82.5° | 326.4 | 201.3 | 156.1 | 150.1 | 144.2 | 225.2 | 395.5 | 448.0 | 299.0 | 201.3 |
| 106.0 | 85° | 129.9 | 120.3 | 91.7 | 84.6 | 60.8 | 106.0 | 207.3 | 297.8 | 222.8 | 145.3 |
| 27.4 | 87.5° | 47.7 | 47.7 | 25.0 | 17.9 | 13.1 | 35.7 | 56.0 | 89.4 | 127.5 | 75.1 |
| 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> |
|-------------|
| 3245.3 |
| 3496.6 |
| 3617.0 |
| 3593.1 |
| 3412.1 |
| 3117.8 |
| 2821.1 |
| 2599.5 |
| 2469.7 |
| 2418.5 |
| 2388.7 |
| 2358.9 |
| 2262.4 |
| 2042.0 |
| 1773.9 |
| 1524.9 |
| 1327.2 |
| 1192.6 |
| 1189.0 |
| 1178.3 |
| 1098.4 |
| 959.0 |
| 879.2 |
| 845.9 |
| 818.5 |
| 758.9 |
| 718.4 |
| 671.9 |
| 620.7 |
| 561.1 |
| 534.9 |
| 417.0 |
| 281.2 |
| 200.1 |
| 148.9 |
| 73.9 |
| 0.0 |

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