

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: P953625

Luminaire Tested: **GALN-SB7A-840-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25404 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

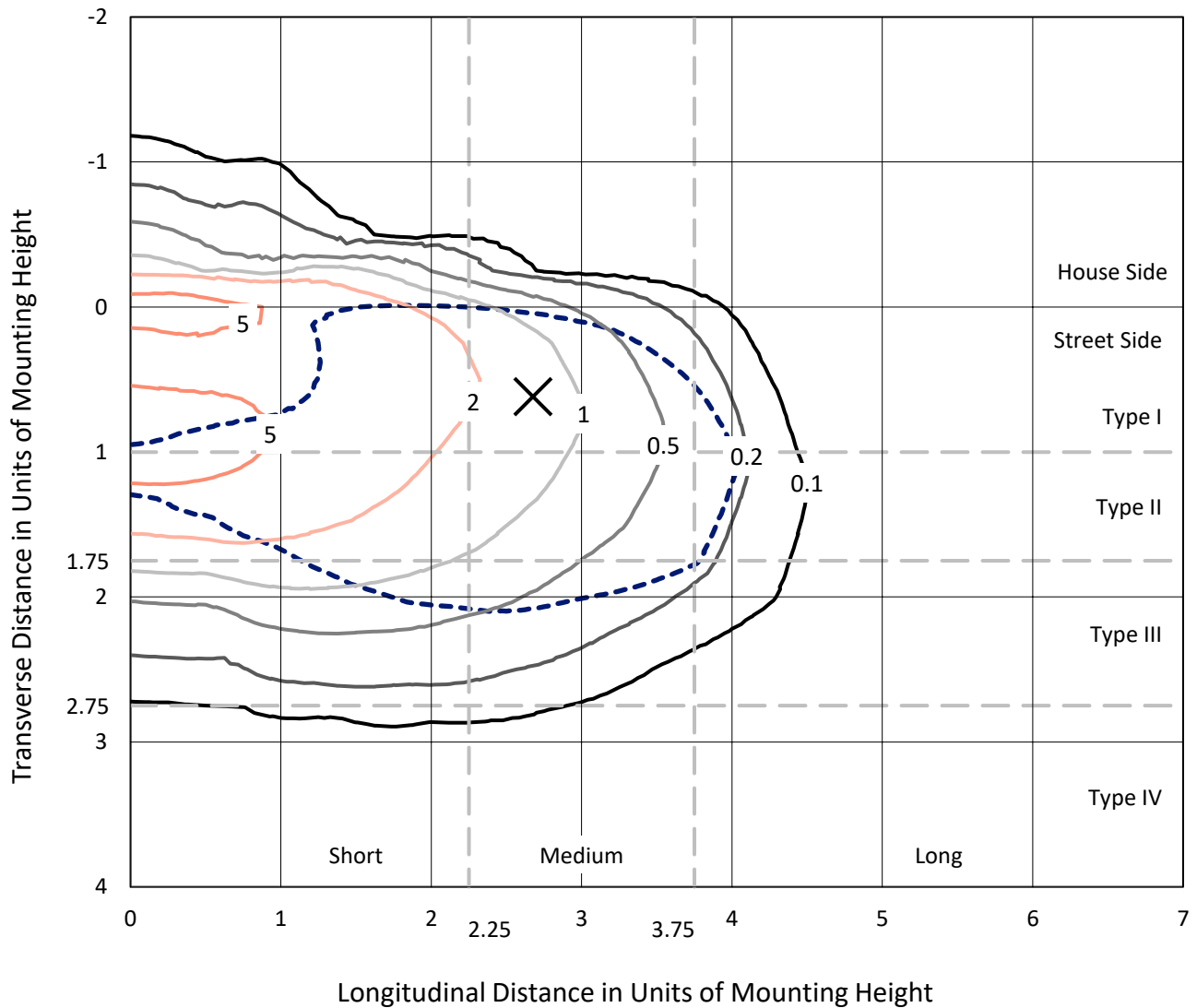
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

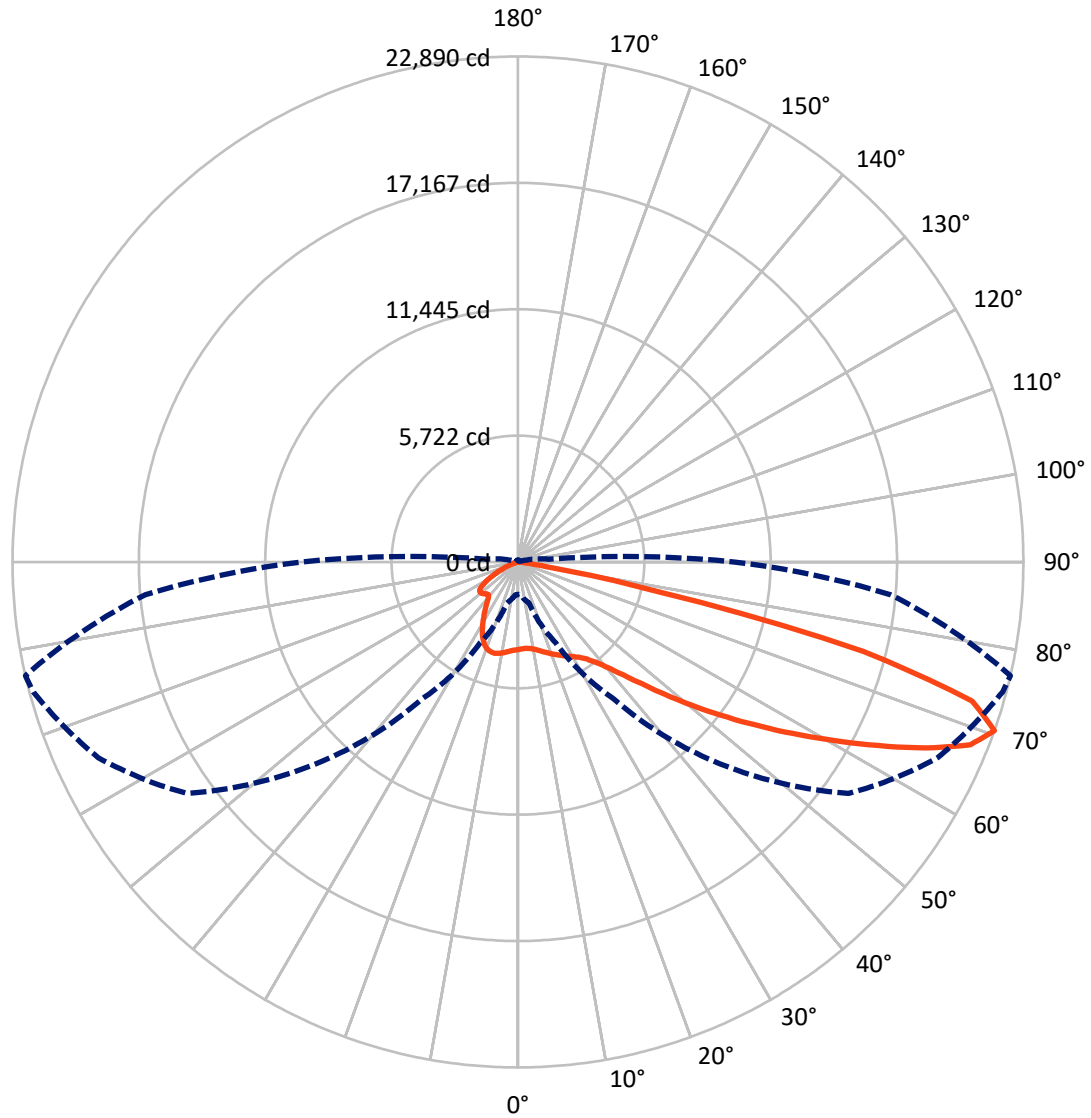
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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 | 2677.9 | 0.0 | 2677.9 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 22726.0 | 0.0 | 22726.0 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 25404.0 | 0.0 | 25404.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 341.5 | 1.3 |
| 10°-20° | 810.7 | 3.2 |
| 20°-30° | 1253.9 | 4.9 |
| 30°-40° | 2275.3 | 9.0 |
| 40°-50° | 4295.0 | 16.9 |
| 50°-60° | 6205.9 | 24.4 |
| 60°-70° | 6606.0 | 26.0 |
| 70°-80° | 3500.7 | 13.8 |
| 80°-90° | 114.9 | 0.5 |
| 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° | 25404.0 | 100.0 |
| 0°-180° | 25404.0 | 100.0 |



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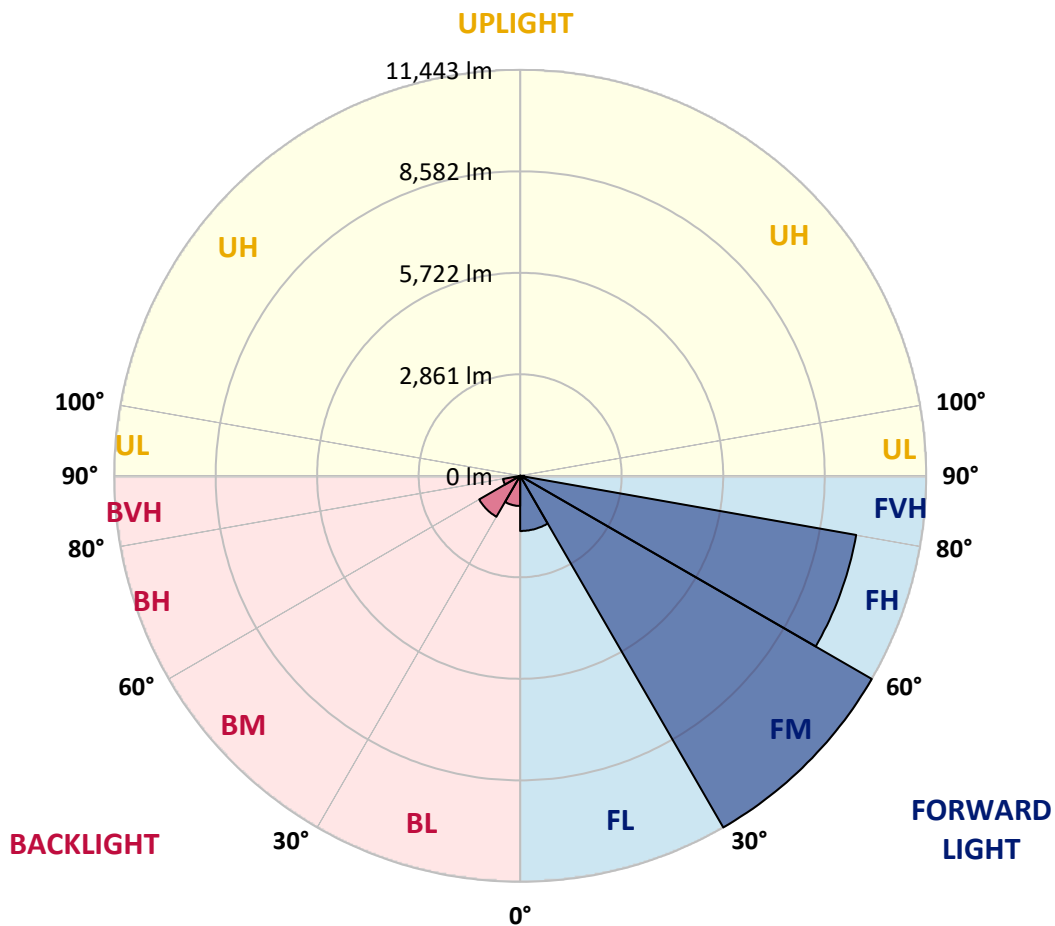
CATALOG NUMBER: GALN-SB7A-840-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1555.3 | 6.1 | | | |
| FM (30°-60°) | 11443.1 | 45.0 | | | |
| FH (60°-80°) | 9615.8 | 37.9 | | | G4/12000 |
| FVH (80°-90°) | 111.9 | 0.4 | | | G2/225 |
| BL (0°-30°) | 850.8 | 3.3 | B2/1000 | | |
| BM (30°-60°) | 1333.1 | 5.2 | B2/2500 | | |
| BH (60°-80°) | 490.9 | 1.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3962.6 | 3962.6 | 3962.6 | 3962.6 | 3962.6 | 3962.6 | 3962.6 | 3962.6 | 3962.6 | 3962.6 |
| 2.5° | 3720.3 | 3754.0 | 3749.2 | 3771.7 | 3779.7 | 3811.8 | 3843.8 | 3887.2 | 3935.3 | 3933.7 |
| 5° | 3510.2 | 3543.8 | 3551.9 | 3582.4 | 3620.9 | 3670.6 | 3736.4 | 3823.0 | 3912.8 | 3927.3 |
| 7.5° | 3261.5 | 3296.8 | 3317.6 | 3378.6 | 3449.2 | 3551.9 | 3659.4 | 3786.1 | 3935.3 | 3956.1 |
| 10° | 3012.8 | 3044.9 | 3072.2 | 3158.8 | 3271.1 | 3423.5 | 3598.4 | 3781.3 | 3981.8 | 4012.3 |
| 12.5° | 2858.8 | 2889.3 | 2919.8 | 2995.2 | 3134.8 | 3320.9 | 3558.3 | 3803.7 | 4058.8 | 4102.1 |
| 15° | 2804.3 | 2831.5 | 2855.6 | 2923.0 | 3052.9 | 3264.7 | 3550.3 | 3850.3 | 4156.7 | 4214.4 |
| 17.5° | 2812.3 | 2826.7 | 2842.8 | 2894.1 | 3020.9 | 3239.0 | 3564.7 | 3930.5 | 4272.2 | 4323.5 |
| 20° | 2858.8 | 2866.8 | 2868.4 | 2903.7 | 3016.0 | 3235.8 | 3593.6 | 4007.5 | 4381.3 | 4450.3 |
| 22.5° | 2918.2 | 2921.4 | 2918.2 | 2942.2 | 3046.5 | 3259.9 | 3632.1 | 4100.5 | 4503.2 | 4567.4 |
| 25° | 3195.7 | 3134.8 | 3057.8 | 3011.2 | 3097.9 | 3306.4 | 3689.8 | 4225.7 | 4636.4 | 4698.9 |
| 27.5° | 4057.2 | 3882.4 | 3606.4 | 3296.8 | 3203.7 | 3373.8 | 3770.1 | 4352.4 | 4771.1 | 4827.3 |
| 30° | 5456.1 | 5226.7 | 4758.3 | 4060.4 | 3543.8 | 3515.0 | 3874.3 | 4479.1 | 4913.9 | 4974.9 |
| 32.5° | 6858.3 | 6802.1 | 6261.5 | 5295.7 | 4309.1 | 3829.4 | 4047.6 | 4650.8 | 5103.2 | 5151.3 |
| 35° | 8276.5 | 8162.6 | 7719.8 | 6765.2 | 5488.2 | 4469.5 | 4336.4 | 4875.4 | 5351.9 | 5406.4 |
| 37.5° | 9362.6 | 9293.6 | 9019.2 | 8233.2 | 6887.2 | 5457.8 | 4830.5 | 5223.5 | 5712.8 | 5773.8 |
| 40° | 10321.9 | 10289.8 | 10196.8 | 9678.6 | 8451.3 | 6750.8 | 5598.9 | 5762.6 | 6213.4 | 6285.6 |
| 42.5° | 11075.9 | 11151.3 | 11204.3 | 11059.9 | 10063.6 | 8226.7 | 6632.1 | 6519.8 | 6911.2 | 6985.0 |
| 45° | 11847.6 | 11873.3 | 12086.6 | 12295.2 | 11664.7 | 9770.0 | 7796.8 | 7406.9 | 7779.1 | 7870.6 |
| 47.5° | 12343.3 | 12446.0 | 12821.4 | 13188.8 | 13010.7 | 11300.5 | 9048.1 | 8454.5 | 8785.0 | 8956.7 |
| 50° | 12380.2 | 12574.3 | 13090.9 | 13731.0 | 13990.9 | 12757.2 | 10408.6 | 9648.1 | 9999.5 | 10188.8 |
| 52.5° | 11765.8 | 12067.4 | 12867.9 | 13804.8 | 14520.3 | 13990.9 | 11815.5 | 10841.7 | 11292.5 | 11539.6 |
| 55° | 9020.9 | 9415.5 | 12028.9 | 13403.7 | 14541.2 | 14926.2 | 13185.6 | 12085.0 | 12733.1 | 13012.3 |
| 57.5° | 7859.4 | 8058.3 | 9457.2 | 12707.5 | 14154.5 | 15303.2 | 14424.1 | 13269.0 | 14300.5 | 14647.1 |
| 60° | 6539.0 | 6800.5 | 7931.5 | 11568.4 | 13629.9 | 15340.1 | 15518.2 | 14796.3 | 15999.5 | 16389.3 |
| 62.5° | 4443.8 | 4727.8 | 5852.4 | 9611.2 | 12912.8 | 15322.5 | 16415.0 | 16368.4 | 17887.7 | 18306.4 |
| 65° | 2752.9 | 2931.0 | 3672.2 | 7848.1 | 11910.2 | 15341.7 | 17353.5 | 18277.5 | 19880.2 | 20305.3 |
| 67.5° | 2175.4 | 2257.2 | 2643.8 | 6025.7 | 10182.3 | 14908.5 | 18290.4 | 20072.7 | 21755.6 | 22092.5 |
| 70° | 1461.5 | 1511.2 | 1923.5 | 4039.6 | 7575.4 | 12909.6 | 18272.7 | 20974.3 | 22721.4 | 22889.8 |
| 72.5° | 770.1 | 808.6 | 1124.6 | 1870.6 | 4575.4 | 9176.5 | 15402.7 | 19896.2 | 21760.4 | 21506.9 |
| 75° | 385.0 | 449.2 | 757.2 | 949.7 | 1954.0 | 5117.6 | 9564.7 | 15686.6 | 17127.3 | 16145.4 |
| 77.5° | 292.0 | 352.9 | 625.7 | 625.7 | 680.2 | 1723.0 | 4050.8 | 8555.6 | 7891.4 | 6571.1 |
| 80° | 186.1 | 240.6 | 547.1 | 473.3 | 284.0 | 438.0 | 1055.6 | 2396.8 | 1676.5 | 1275.4 |
| 82.5° | 109.1 | 157.2 | 455.6 | 312.8 | 158.8 | 162.0 | 298.4 | 510.2 | 434.8 | 338.5 |
| 85° | 43.3 | 102.7 | 312.8 | 123.5 | 62.6 | 40.1 | 89.8 | 109.1 | 89.8 | 67.4 |
| 87.5° | 0.0 | 24.1 | 54.5 | 0.0 | 4.8 | 3.2 | 6.4 | 8.0 | 8.0 | 6.4 |
| 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):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3962.6 | 0° | 3962.6 | 3962.6 | 3962.6 | 3962.6 | 3962.6 | 3962.6 | 3962.6 | 3962.6 | 3962.6 | 3962.6 |
| 3965.8 | 2.5° | 3980.2 | 3983.4 | 3993.0 | 3994.7 | 3972.2 | 3943.3 | 3932.1 | 3927.3 | 3908.0 | 3906.4 |
| 3991.4 | 5° | 4028.3 | 4042.8 | 4028.3 | 3986.6 | 3887.2 | 3747.6 | 3641.7 | 3555.1 | 3476.5 | 3452.4 |
| 4079.7 | 7.5° | 4124.6 | 4139.0 | 4095.7 | 3932.1 | 3681.8 | 3404.3 | 3154.0 | 2977.5 | 2818.7 | 2759.4 |
| 4187.2 | 10° | 4262.6 | 4281.8 | 4145.5 | 3815.0 | 3372.2 | 2926.2 | 2502.7 | 2204.3 | 1971.7 | 1877.0 |
| 4333.2 | 12.5° | 4435.8 | 4443.8 | 4172.7 | 3636.9 | 2969.5 | 2332.6 | 1732.6 | 1413.4 | 1206.4 | 1129.4 |
| 4509.6 | 15° | 4626.7 | 4615.5 | 4175.9 | 3394.7 | 2420.9 | 1649.2 | 1131.0 | 928.9 | 845.5 | 819.8 |
| 4686.1 | 17.5° | 4827.3 | 4780.7 | 4111.8 | 3044.9 | 1819.3 | 1127.8 | 839.0 | 790.9 | 776.5 | 770.1 |
| 4861.0 | 20° | 5024.6 | 4920.3 | 3994.7 | 2587.7 | 1305.9 | 842.2 | 762.0 | 747.6 | 739.6 | 736.4 |
| 5037.4 | 22.5° | 5204.3 | 5026.2 | 3794.1 | 2056.7 | 948.1 | 744.4 | 720.3 | 707.5 | 693.0 | 686.6 |
| 5209.1 | 25° | 5379.1 | 5087.2 | 3511.8 | 1561.0 | 758.8 | 696.3 | 677.0 | 652.9 | 633.7 | 625.7 |
| 5393.6 | 27.5° | 5549.2 | 5125.7 | 3158.8 | 1155.1 | 677.0 | 651.3 | 616.0 | 582.4 | 567.9 | 564.7 |
| 5590.9 | 30° | 5730.5 | 5138.5 | 2757.8 | 861.5 | 627.3 | 595.2 | 543.9 | 505.3 | 497.3 | 498.9 |
| 5857.2 | 32.5° | 5951.9 | 5157.8 | 2353.5 | 705.9 | 585.6 | 527.8 | 466.8 | 426.7 | 420.3 | 426.7 |
| 6245.5 | 35° | 6216.6 | 5196.3 | 1963.6 | 649.7 | 548.7 | 458.8 | 393.0 | 359.4 | 352.9 | 357.8 |
| 6742.8 | 37.5° | 6575.9 | 5258.8 | 1599.5 | 638.5 | 518.2 | 401.1 | 330.5 | 303.2 | 303.2 | 304.8 |
| 7352.4 | 40° | 7054.0 | 5425.7 | 1273.8 | 630.5 | 502.1 | 357.8 | 279.1 | 267.9 | 272.7 | 275.9 |
| 8128.9 | 42.5° | 7636.4 | 5780.2 | 1054.0 | 620.9 | 484.5 | 338.5 | 253.5 | 248.7 | 256.7 | 259.9 |
| 9059.4 | 45° | 8289.3 | 6229.4 | 977.0 | 604.8 | 468.4 | 351.3 | 242.2 | 235.8 | 245.5 | 247.1 |
| 10102.1 | 47.5° | 8964.7 | 6669.0 | 967.4 | 587.2 | 452.4 | 370.6 | 239.0 | 224.6 | 235.8 | 237.4 |
| 11215.5 | 50° | 9648.1 | 6956.1 | 977.0 | 559.9 | 426.7 | 370.6 | 240.6 | 213.4 | 223.0 | 227.8 |
| 12370.6 | 52.5° | 10336.4 | 7087.7 | 970.6 | 500.5 | 381.8 | 348.1 | 240.6 | 203.7 | 213.4 | 216.6 |
| 13618.7 | 55° | 11003.7 | 7062.0 | 872.7 | 412.3 | 324.1 | 308.0 | 234.2 | 195.7 | 202.1 | 203.7 |
| 14797.9 | 57.5° | 11531.5 | 6704.3 | 691.4 | 320.9 | 263.1 | 256.7 | 213.4 | 186.1 | 190.9 | 189.3 |
| 15879.1 | 60° | 11807.5 | 5918.2 | 494.1 | 247.1 | 207.0 | 202.1 | 187.7 | 173.3 | 176.5 | 168.4 |
| 16795.2 | 62.5° | 11810.7 | 4878.6 | 330.5 | 195.7 | 165.2 | 160.4 | 160.4 | 155.6 | 152.4 | 136.4 |
| 17504.3 | 65° | 11558.8 | 3725.1 | 219.8 | 155.6 | 133.2 | 125.1 | 134.8 | 133.2 | 121.9 | 99.5 |
| 17720.8 | 67.5° | 10987.7 | 2441.7 | 166.8 | 121.9 | 102.7 | 97.9 | 107.5 | 112.3 | 104.3 | 83.4 |
| 16931.5 | 70° | 9813.4 | 1421.4 | 138.0 | 94.7 | 77.0 | 72.2 | 86.6 | 96.3 | 86.6 | 67.4 |
| 14472.2 | 72.5° | 8151.3 | 766.8 | 112.3 | 70.6 | 52.9 | 48.1 | 69.0 | 78.6 | 69.0 | 49.7 |
| 9285.6 | 75° | 5289.3 | 410.7 | 86.6 | 46.5 | 27.3 | 30.5 | 51.3 | 57.8 | 48.1 | 32.1 |
| 2725.7 | 77.5° | 1775.9 | 181.3 | 54.5 | 22.5 | 12.8 | 12.8 | 30.5 | 35.3 | 22.5 | 11.2 |
| 495.7 | 80° | 396.3 | 75.4 | 22.5 | 9.6 | 4.8 | 4.8 | 6.4 | 6.4 | 3.2 | 0.0 |
| 152.4 | 82.5° | 129.9 | 30.5 | 9.6 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 38.5 | 85° | 49.7 | 11.2 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12.8 | 87.5° | 19.3 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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> |
| 3962.6 |
| 3909.6 |
| 3438.0 |
| 2735.3 |
| 1836.9 |
| 1105.3 |
| 819.8 |
| 768.4 |
| 733.2 |
| 685.0 |
| 622.5 |
| 561.5 |
| 498.9 |
| 425.1 |
| 356.1 |
| 303.2 |
| 275.9 |
| 259.9 |
| 248.7 |
| 239.0 |
| 229.4 |
| 216.6 |
| 203.7 |
| 189.3 |
| 166.8 |
| 131.6 |
| 96.3 |
| 81.8 |
| 64.2 |
| 48.1 |
| 28.9 |
| 9.6 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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