

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: P942346

Luminaire Tested: **GALN-SB6B-760-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-760-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28333 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

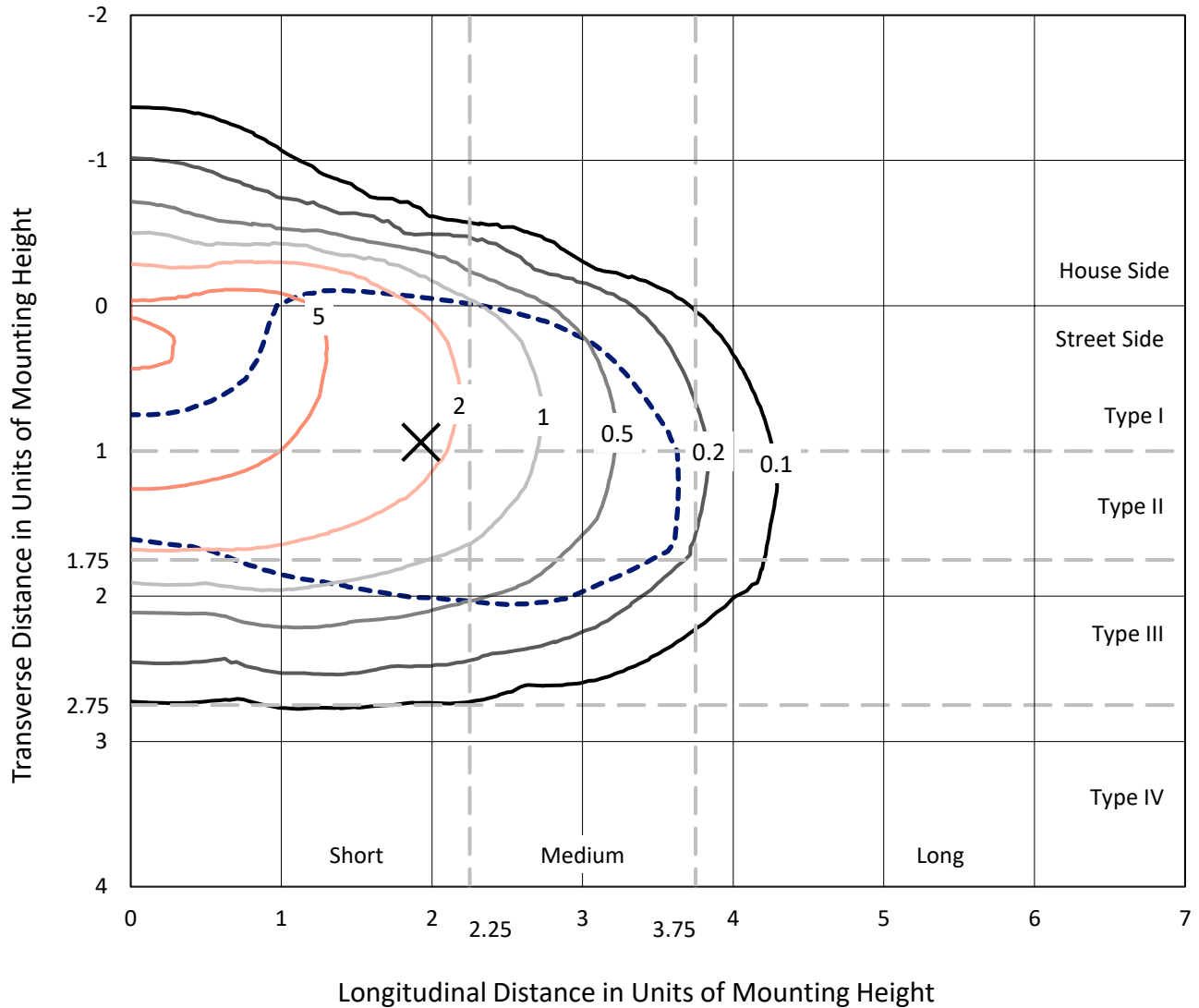
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

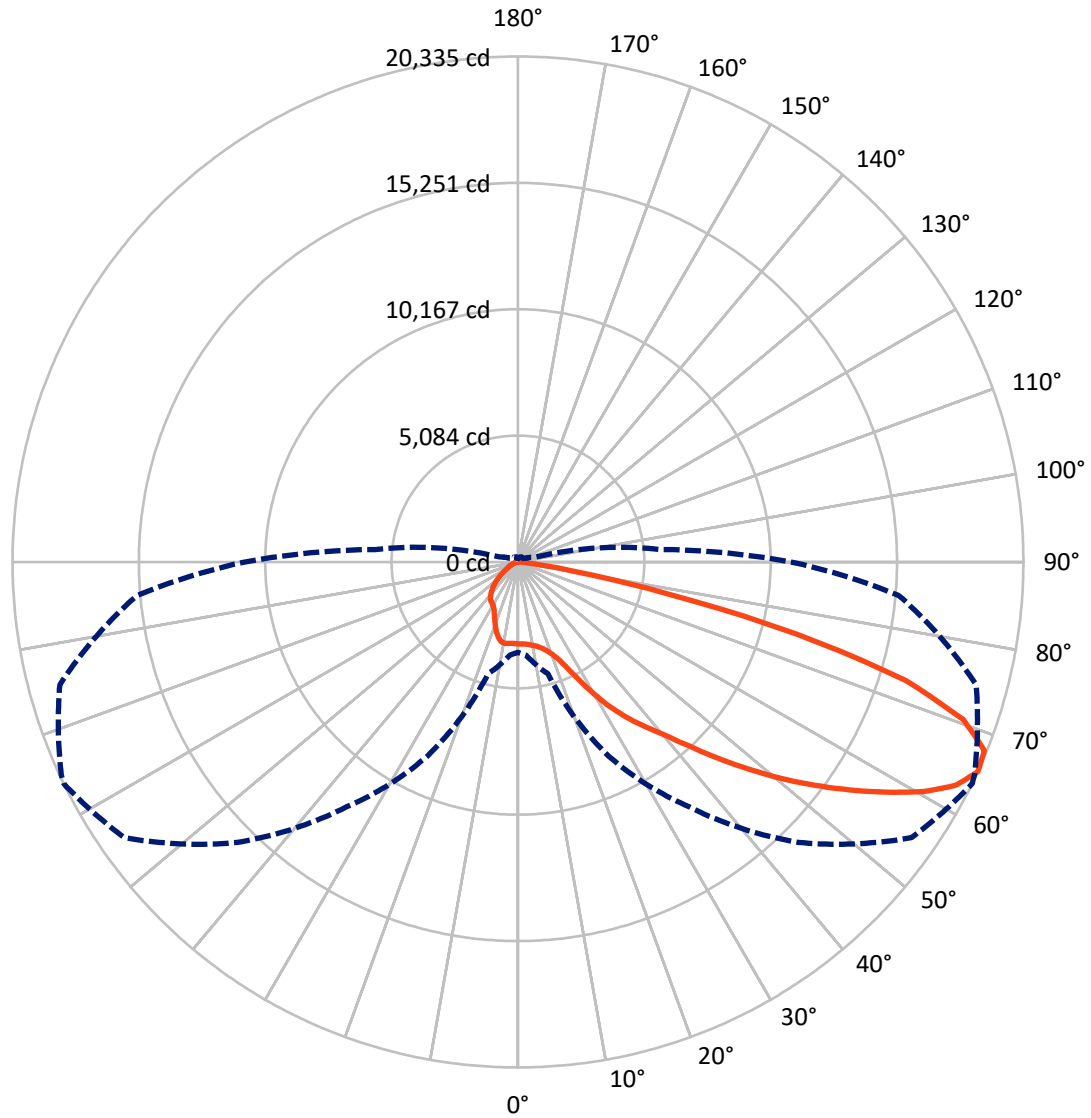
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3789.0 | 0.0 | 3789.0 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 24544.0 | 0.0 | 24544.0 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 28333.0 | 0.0 | 28333.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 304.0 | 1.1 |
| 10°-20° | 824.6 | 2.9 |
| 20°-30° | 1562.6 | 5.5 |
| 30°-40° | 3162.0 | 11.2 |
| 40°-50° | 5386.5 | 19.0 |
| 50°-60° | 7325.2 | 25.9 |
| 60°-70° | 6878.7 | 24.3 |
| 70°-80° | 2755.9 | 9.7 |
| 80°-90° | 133.5 | 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° | 28333.0 | 100.0 |
| 0°-180° | 28333.0 | 100.0 |

Coefficient of Utilization



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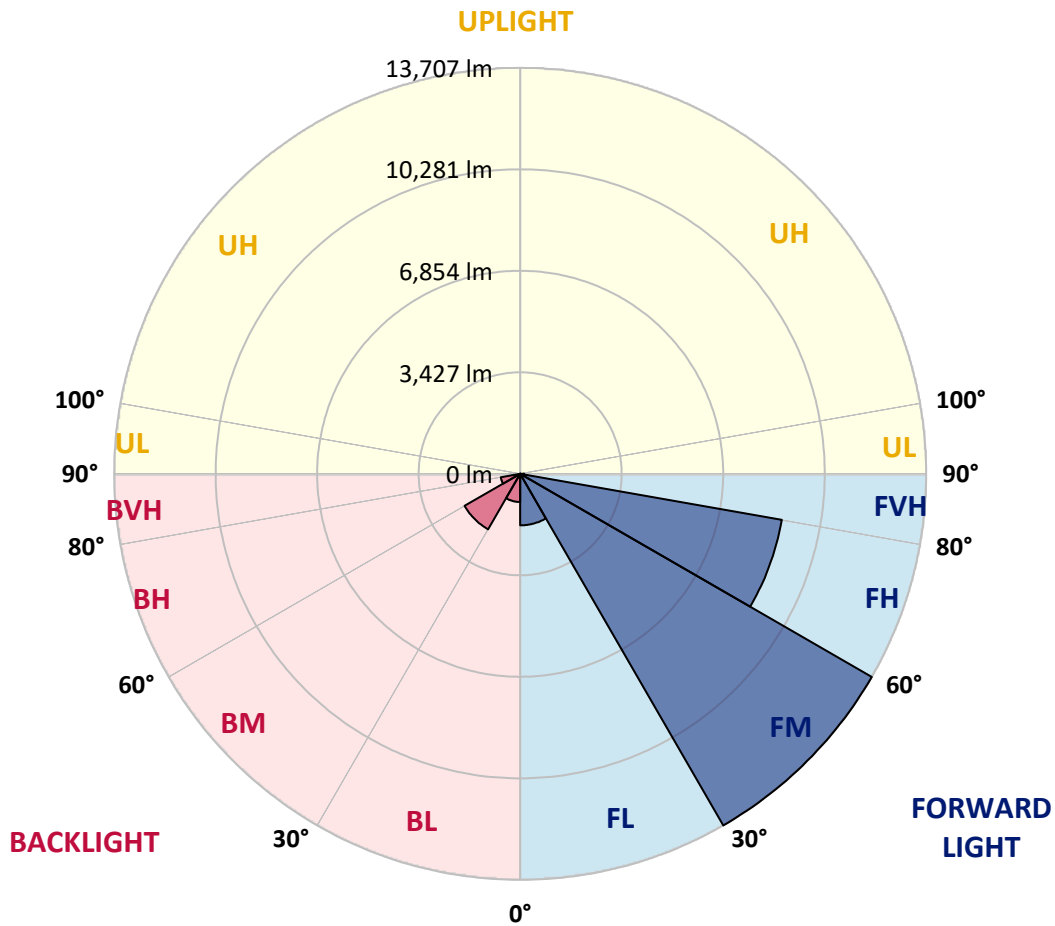
CATALOG NUMBER: GALN-SB6B-760-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1740.0 | 6.1 | | | |
| FM (30°-60°) | 13707.5 | 48.4 | | | |
| FH (60°-80°) | 8969.6 | 31.7 | | | G4/12000 |
| FVH (80°-90°) | 127.0 | 0.4 | | | G2/225 |
| BL (0°-30°) | 951.3 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 2166.1 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 665.0 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 6.5 | 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 Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3295.4 | 3295.4 | 3295.4 | 3295.4 | 3295.4 | 3295.4 | 3295.4 | 3295.4 | 3295.4 | 3295.4 |
| 2.5° | 3284.0 | 3306.8 | 3301.1 | 3295.4 | 3293.5 | 3297.3 | 3299.2 | 3297.3 | 3297.3 | 3297.3 |
| 5° | 3221.3 | 3240.3 | 3240.3 | 3253.6 | 3272.6 | 3295.4 | 3312.5 | 3316.3 | 3320.1 | 3325.8 |
| 7.5° | 3101.7 | 3116.9 | 3128.3 | 3172.0 | 3219.4 | 3280.2 | 3331.5 | 3358.1 | 3361.9 | 3382.8 |
| 10° | 3020.0 | 3039.0 | 3058.0 | 3103.6 | 3172.0 | 3263.1 | 3350.5 | 3415.1 | 3424.6 | 3474.0 |
| 12.5° | 3016.2 | 3035.2 | 3059.9 | 3109.3 | 3189.1 | 3285.9 | 3392.3 | 3485.4 | 3502.5 | 3574.6 |
| 15° | 3056.1 | 3078.9 | 3101.7 | 3162.5 | 3247.9 | 3365.7 | 3479.7 | 3595.5 | 3612.6 | 3715.2 |
| 17.5° | 3137.8 | 3168.2 | 3185.3 | 3246.0 | 3337.2 | 3468.3 | 3618.3 | 3751.3 | 3766.5 | 3886.1 |
| 20° | 3299.2 | 3335.3 | 3341.0 | 3390.4 | 3479.7 | 3620.2 | 3798.8 | 3964.0 | 3983.0 | 4119.8 |
| 22.5° | 3633.5 | 3684.8 | 3639.2 | 3663.9 | 3743.7 | 3884.2 | 4078.0 | 4286.9 | 4313.5 | 4469.2 |
| 25° | 4222.3 | 4294.5 | 4176.7 | 4134.9 | 4169.1 | 4315.4 | 4558.5 | 4822.5 | 4852.9 | 4978.3 |
| 27.5° | 5379.0 | 5286.0 | 5107.4 | 4932.7 | 4830.1 | 4913.7 | 5187.2 | 5513.9 | 5551.9 | 5673.4 |
| 30° | 6649.7 | 6568.1 | 6326.8 | 5939.4 | 5696.2 | 5682.9 | 5935.6 | 6300.2 | 6343.9 | 6459.8 |
| 32.5° | 7922.3 | 7844.4 | 7582.3 | 7105.6 | 6683.9 | 6475.0 | 6649.7 | 7054.3 | 7077.1 | 7151.2 |
| 35° | 9174.0 | 9094.2 | 8832.1 | 8344.0 | 7825.4 | 7350.6 | 7316.4 | 7772.3 | 7779.9 | 7857.7 |
| 37.5° | 10433.3 | 10366.8 | 10087.6 | 9609.0 | 9098.0 | 8442.7 | 8125.5 | 8452.2 | 8461.7 | 8537.7 |
| 40° | 11331.7 | 11360.2 | 11168.3 | 10798.0 | 10359.2 | 9643.1 | 9033.4 | 9175.9 | 9118.9 | 9246.2 |
| 42.5° | 12102.8 | 12159.8 | 11992.7 | 11806.5 | 11552.0 | 10921.4 | 10157.9 | 10133.2 | 10042.0 | 10110.4 |
| 45° | 12769.5 | 12817.0 | 12667.0 | 12623.3 | 12617.6 | 12175.0 | 11386.8 | 11238.6 | 11111.4 | 11098.1 |
| 47.5° | 13014.5 | 13105.7 | 13170.3 | 13316.5 | 13601.5 | 13415.3 | 12657.5 | 12427.6 | 12285.2 | 12180.7 |
| 50° | 13107.6 | 13204.5 | 13424.8 | 13850.3 | 14524.5 | 14604.3 | 13922.4 | 13664.1 | 13489.4 | 13299.4 |
| 52.5° | 12982.3 | 13155.1 | 13451.4 | 14167.5 | 15145.6 | 15557.8 | 15136.1 | 14910.1 | 14710.7 | 14401.1 |
| 55° | 12243.4 | 12416.2 | 13022.1 | 14163.7 | 15455.2 | 16226.4 | 16283.4 | 16182.7 | 15958.6 | 15470.4 |
| 57.5° | 10685.9 | 10942.3 | 11901.5 | 13681.2 | 15449.5 | 16801.9 | 17407.8 | 17480.0 | 17229.3 | 16530.3 |
| 60° | 8528.2 | 8875.8 | 10045.8 | 12611.9 | 14972.8 | 17113.4 | 18393.6 | 18754.5 | 18488.6 | 17575.0 |
| 62.5° | 5950.8 | 6353.4 | 7460.8 | 10936.6 | 13882.6 | 16889.3 | 19113.4 | 19780.1 | 19578.8 | 18509.4 |
| 65° | 3629.7 | 3758.9 | 4651.6 | 8606.1 | 12028.8 | 15951.0 | 19335.7 | 20334.7 | 20268.3 | 19081.2 |
| 67.5° | 2417.9 | 2526.2 | 2782.6 | 5901.4 | 9337.3 | 14076.3 | 18803.8 | 20237.9 | 20256.9 | 18988.1 |
| 70° | 1456.8 | 1549.9 | 1717.0 | 3432.2 | 6051.4 | 11141.8 | 17157.1 | 19003.3 | 19113.4 | 17744.0 |
| 72.5° | 600.2 | 662.9 | 814.8 | 1555.6 | 3134.0 | 7071.4 | 13662.2 | 16315.7 | 16572.1 | 14919.6 |
| 75° | 340.0 | 372.3 | 478.6 | 780.6 | 1360.0 | 3295.4 | 8275.6 | 11582.4 | 11960.4 | 10283.2 |
| 77.5° | 226.0 | 241.2 | 309.6 | 505.2 | 765.4 | 1124.4 | 3536.6 | 6034.3 | 6756.1 | 5616.5 |
| 80° | 152.0 | 165.2 | 212.7 | 338.1 | 497.6 | 482.4 | 1126.3 | 2235.6 | 2750.3 | 1929.8 |
| 82.5° | 102.6 | 104.5 | 152.0 | 222.2 | 315.3 | 233.6 | 332.4 | 695.2 | 873.7 | 558.4 |
| 85° | 58.9 | 57.0 | 112.1 | 129.2 | 140.6 | 96.9 | 100.7 | 208.9 | 273.5 | 235.5 |
| 87.5° | 7.6 | 11.4 | 43.7 | 34.2 | 19.0 | 20.9 | 20.9 | 36.1 | 53.2 | 57.0 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3295.4 | 0° | 3295.4 | 3295.4 | 3295.4 | 3295.4 | 3295.4 | 3295.4 | 3295.4 | 3295.4 | 3295.4 | 3295.4 |
| 3299.2 | 2.5° | 3299.2 | 3297.3 | 3291.6 | 3285.9 | 3272.6 | 3265.0 | 3268.8 | 3265.0 | 3263.1 | 3265.0 |
| 3323.9 | 5° | 3323.9 | 3318.2 | 3303.0 | 3284.0 | 3257.4 | 3225.1 | 3204.3 | 3173.9 | 3145.4 | 3128.3 |
| 3390.4 | 7.5° | 3390.4 | 3384.7 | 3363.8 | 3310.6 | 3225.1 | 3090.3 | 2966.8 | 2858.6 | 2776.9 | 2729.4 |
| 3496.8 | 10° | 3496.8 | 3487.3 | 3455.0 | 3337.2 | 3113.1 | 2818.7 | 2573.7 | 2370.4 | 2237.5 | 2174.8 |
| 3622.1 | 12.5° | 3622.1 | 3610.7 | 3553.7 | 3312.5 | 2900.4 | 2440.7 | 2102.6 | 1876.6 | 1753.1 | 1698.0 |
| 3766.5 | 15° | 3770.3 | 3755.1 | 3643.0 | 3194.8 | 2590.8 | 2022.8 | 1713.2 | 1544.2 | 1464.4 | 1415.0 |
| 3950.7 | 17.5° | 3954.5 | 3927.9 | 3709.5 | 3018.1 | 2254.6 | 1703.7 | 1473.9 | 1346.7 | 1276.4 | 1228.9 |
| 4191.9 | 20° | 4193.8 | 4150.1 | 3762.7 | 2807.3 | 1945.0 | 1502.4 | 1312.5 | 1206.1 | 1152.9 | 1111.1 |
| 4533.8 | 22.5° | 4528.1 | 4465.4 | 3827.2 | 2579.4 | 1726.5 | 1363.8 | 1192.8 | 1114.9 | 1071.2 | 1023.8 |
| 5010.6 | 25° | 4942.2 | 4868.1 | 3907.0 | 2368.5 | 1576.5 | 1244.1 | 1105.4 | 1040.9 | 989.6 | 934.5 |
| 5635.5 | 27.5° | 5521.5 | 5388.5 | 4002.0 | 2195.7 | 1447.3 | 1141.5 | 1025.7 | 953.5 | 894.6 | 849.0 |
| 6343.9 | 30° | 6167.3 | 5948.9 | 4085.6 | 2091.2 | 1329.6 | 1046.6 | 921.2 | 849.0 | 793.9 | 761.7 |
| 6980.2 | 32.5° | 6778.9 | 6482.6 | 4140.6 | 2045.6 | 1223.2 | 938.3 | 807.2 | 729.4 | 687.6 | 678.1 |
| 7603.2 | 35° | 7356.3 | 6965.0 | 4134.9 | 2001.9 | 1128.2 | 830.0 | 695.2 | 615.4 | 583.1 | 588.8 |
| 8273.7 | 37.5° | 8021.1 | 7479.8 | 4095.1 | 1933.6 | 1050.4 | 731.3 | 598.3 | 528.0 | 499.5 | 501.4 |
| 9088.5 | 40° | 8794.1 | 8074.3 | 4070.4 | 1804.4 | 964.9 | 640.1 | 518.5 | 461.5 | 440.7 | 433.1 |
| 9947.0 | 42.5° | 9618.5 | 8649.8 | 4074.2 | 1658.2 | 858.5 | 558.4 | 463.4 | 416.0 | 397.0 | 391.3 |
| 10902.4 | 45° | 10446.6 | 9198.7 | 4079.9 | 1506.2 | 746.5 | 495.7 | 423.6 | 383.7 | 372.3 | 364.7 |
| 11871.1 | 47.5° | 11225.3 | 9665.9 | 3973.5 | 1342.9 | 636.3 | 448.3 | 391.3 | 364.7 | 355.2 | 345.7 |
| 12843.6 | 50° | 11950.9 | 9977.4 | 3717.1 | 1152.9 | 548.9 | 410.3 | 366.6 | 347.6 | 338.1 | 328.6 |
| 13724.9 | 52.5° | 12515.0 | 10026.8 | 3293.5 | 957.3 | 488.1 | 381.8 | 351.4 | 334.3 | 322.9 | 313.4 |
| 14437.2 | 55° | 12765.7 | 9717.2 | 2691.4 | 774.9 | 440.7 | 357.1 | 336.2 | 319.1 | 305.8 | 296.3 |
| 14997.5 | 57.5° | 12701.1 | 9065.7 | 2098.8 | 623.0 | 395.1 | 332.4 | 317.2 | 305.8 | 290.6 | 275.4 |
| 15451.4 | 60° | 12383.9 | 8193.9 | 1582.2 | 518.5 | 353.3 | 305.8 | 296.3 | 286.8 | 265.9 | 243.1 |
| 15626.2 | 62.5° | 11835.0 | 7098.0 | 1128.2 | 429.3 | 307.7 | 275.4 | 271.6 | 264.0 | 233.6 | 191.8 |
| 15367.9 | 65° | 10995.5 | 5766.5 | 759.8 | 357.1 | 264.0 | 241.2 | 243.1 | 229.8 | 189.9 | 142.5 |
| 14422.0 | 67.5° | 9768.5 | 4216.6 | 486.2 | 292.5 | 220.3 | 201.3 | 203.2 | 195.6 | 161.4 | 121.6 |
| 12629.0 | 70° | 8205.3 | 2792.1 | 317.2 | 222.2 | 176.6 | 155.7 | 167.1 | 169.0 | 136.8 | 98.8 |
| 9692.5 | 72.5° | 6015.3 | 1648.7 | 222.2 | 165.2 | 129.2 | 108.3 | 136.8 | 140.6 | 110.2 | 74.1 |
| 5831.1 | 75° | 3428.4 | 782.5 | 167.1 | 119.7 | 79.8 | 76.0 | 106.4 | 106.4 | 76.0 | 49.4 |
| 2524.3 | 77.5° | 1439.7 | 326.7 | 117.8 | 77.9 | 45.6 | 43.7 | 72.2 | 66.5 | 38.0 | 22.8 |
| 615.4 | 80° | 416.0 | 146.3 | 62.7 | 38.0 | 19.0 | 17.1 | 28.5 | 20.9 | 9.5 | 3.8 |
| 233.6 | 82.5° | 163.3 | 64.6 | 24.7 | 15.2 | 7.6 | 7.6 | 3.8 | 0.0 | 0.0 | 0.0 |
| 133.0 | 85° | 96.9 | 26.6 | 11.4 | 5.7 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 28.5 | 87.5° | 24.7 | 5.7 | 3.8 | 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> |
| 3295.4 |
| 3272.6 |
| 3132.1 |
| 2731.3 |
| 2169.1 |
| 1692.3 |
| 1416.9 |
| 1225.1 |
| 1103.5 |
| 1016.2 |
| 928.8 |
| 839.5 |
| 756.0 |
| 683.8 |
| 588.8 |
| 509.0 |
| 431.2 |
| 389.4 |
| 364.7 |
| 345.7 |
| 328.6 |
| 311.5 |
| 294.4 |
| 273.5 |
| 239.3 |
| 188.0 |
| 138.7 |
| 115.9 |
| 95.0 |
| 70.3 |
| 45.6 |
| 22.8 |
| 3.8 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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