

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: P953497

Luminaire Tested: **GALN-SB7A-740-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-740-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25794 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

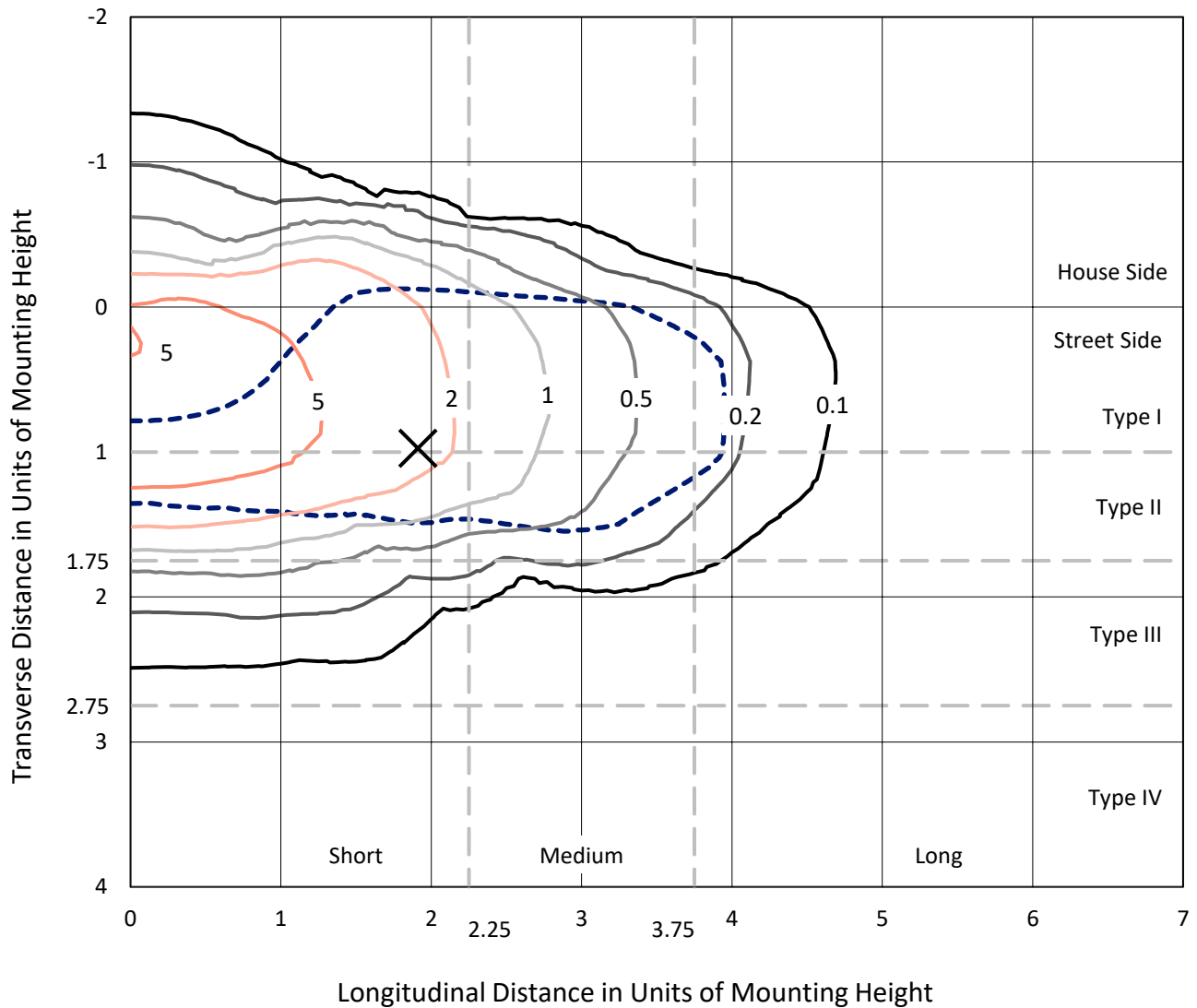
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

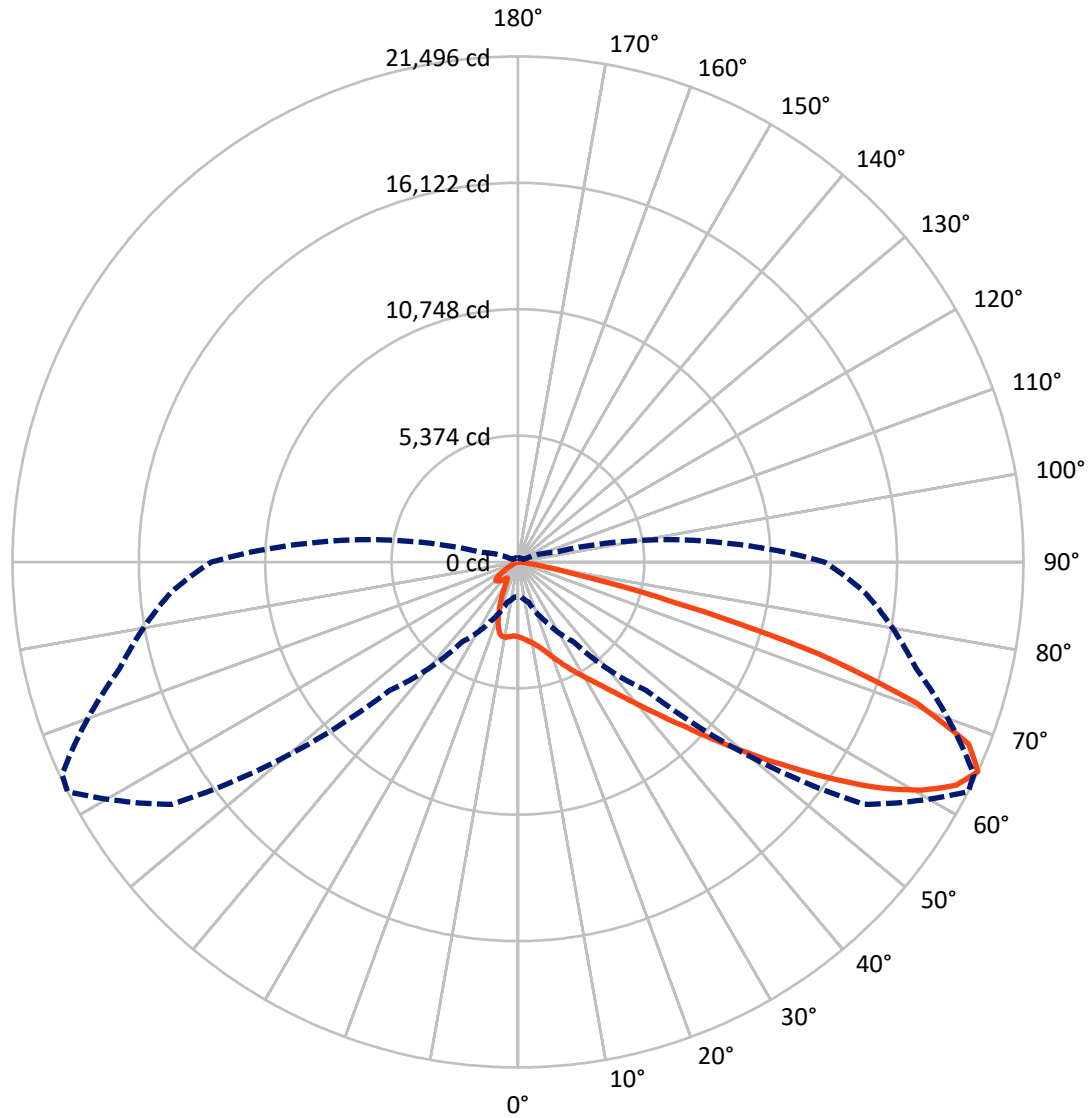
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3791.5 | 0.0 | 3791.5 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 22002.5 | 0.0 | 22002.5 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 25794.0 | 0.0 | 25794.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 299.9 | 1.2 |
| 10°-20° | 832.2 | 3.2 |
| 20°-30° | 1449.1 | 5.6 |
| 30°-40° | 2611.9 | 10.1 |
| 40°-50° | 5180.2 | 20.1 |
| 50°-60° | 7056.3 | 27.4 |
| 60°-70° | 5632.3 | 21.8 |
| 70°-80° | 2548.7 | 9.9 |
| 80°-90° | 183.2 | 0.7 |
| 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° | 25794.0 | 100.0 |
| 0°-180° | 25794.0 | 100.0 |

Coefficient of Utilization



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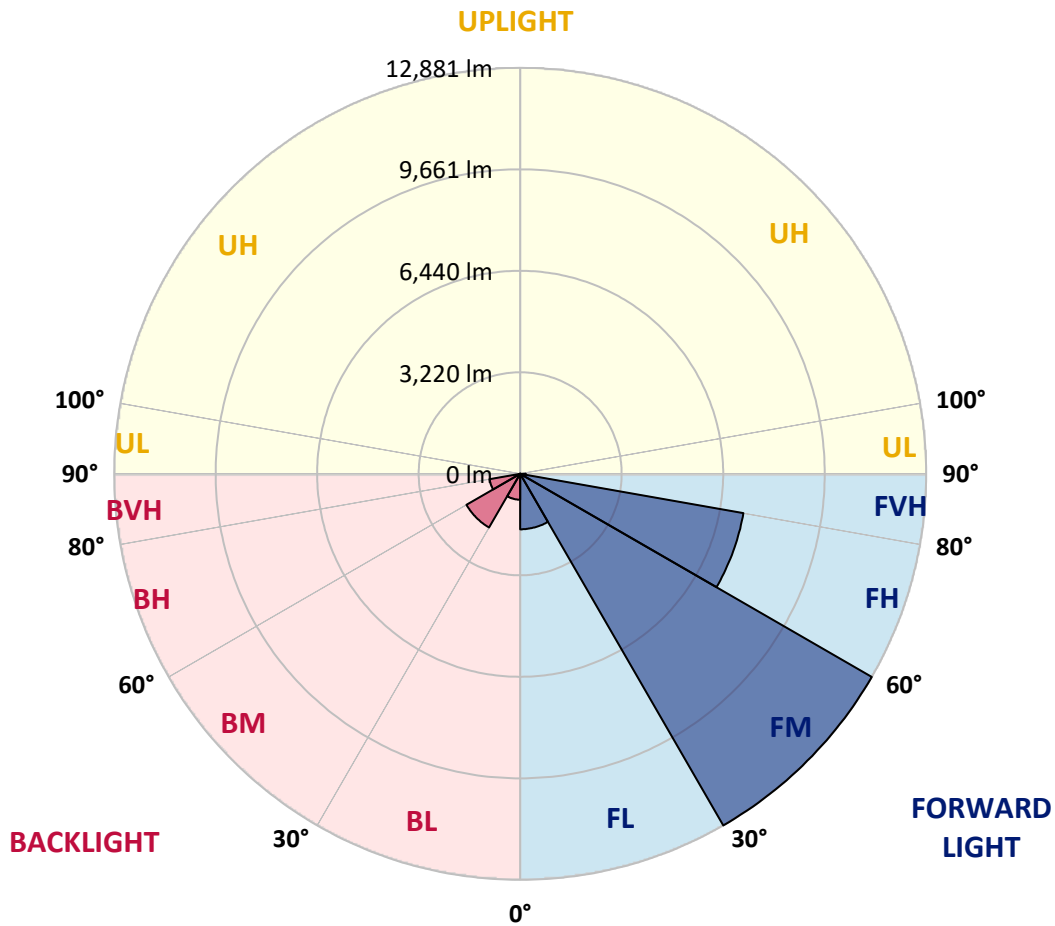
CATALOG NUMBER: GALN-SB7A-740-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1760.8 | 6.8 | | | |
| FM (30°-60°) | 12880.9 | 49.9 | | | |
| FH (60°-80°) | 7191.2 | 27.9 | | | G3/7500 |
| FVH (80°-90°) | 169.6 | 0.7 | | | G2/225 |
| BL (0°-30°) | 820.5 | 3.2 | B2/1000 | | |
| BM (30°-60°) | 1967.6 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 989.8 | 3.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 13.6 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 63° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3183.5 | 3183.5 | 3183.5 | 3183.5 | 3183.5 | 3183.5 | 3183.5 | 3183.5 | 3183.5 | 3183.5 |
| 2.5° | 3258.0 | 3249.1 | 3261.5 | 3256.2 | 3252.7 | 3245.6 | 3242.0 | 3238.5 | 3231.4 | 3226.1 |
| 5° | 3266.9 | 3261.5 | 3274.0 | 3284.6 | 3295.3 | 3305.9 | 3311.2 | 3318.3 | 3311.2 | 3297.0 |
| 7.5° | 3192.3 | 3188.8 | 3215.4 | 3247.3 | 3295.3 | 3336.1 | 3380.4 | 3405.3 | 3407.1 | 3401.7 |
| 10° | 3187.0 | 3178.1 | 3204.8 | 3243.8 | 3305.9 | 3378.7 | 3456.7 | 3510.0 | 3517.1 | 3540.1 |
| 12.5° | 3270.4 | 3261.5 | 3298.8 | 3341.4 | 3405.3 | 3481.6 | 3577.4 | 3651.9 | 3662.6 | 3694.5 |
| 15° | 3410.6 | 3398.2 | 3440.8 | 3495.8 | 3577.4 | 3664.4 | 3765.5 | 3832.9 | 3841.8 | 3880.8 |
| 17.5° | 3573.9 | 3561.4 | 3611.1 | 3669.7 | 3758.4 | 3877.3 | 3994.4 | 4068.9 | 4079.6 | 4104.4 |
| 20° | 3783.3 | 3767.3 | 3806.3 | 3859.6 | 3953.6 | 4095.6 | 4235.8 | 4342.2 | 4340.4 | 4340.4 |
| 22.5° | 4026.4 | 4001.5 | 4035.2 | 4077.8 | 4166.5 | 4338.7 | 4525.0 | 4651.0 | 4651.0 | 4601.3 |
| 25° | 4287.2 | 4262.4 | 4299.6 | 4338.7 | 4416.7 | 4611.9 | 4830.2 | 4986.4 | 4993.5 | 4908.3 |
| 27.5° | 4613.7 | 4581.8 | 4610.2 | 4656.3 | 4702.4 | 4901.2 | 5160.3 | 5341.3 | 5344.8 | 5213.5 |
| 30° | 5241.9 | 5151.4 | 5062.7 | 5013.0 | 5034.3 | 5231.2 | 5508.1 | 5708.6 | 5726.3 | 5545.3 |
| 32.5° | 6391.8 | 6374.0 | 6061.7 | 5653.6 | 5440.6 | 5586.2 | 5896.7 | 6138.0 | 6148.7 | 5916.2 |
| 35° | 8178.7 | 8157.4 | 7655.2 | 6878.0 | 6184.2 | 6061.7 | 6368.7 | 6654.4 | 6647.3 | 6384.7 |
| 37.5° | 10311.7 | 10292.1 | 9630.3 | 8590.4 | 7467.1 | 6780.4 | 6977.4 | 7277.3 | 7321.6 | 6977.4 |
| 40° | 12134.1 | 12061.3 | 11642.5 | 10639.9 | 9170.7 | 7972.9 | 7843.3 | 8042.1 | 8088.2 | 7680.1 |
| 42.5° | 13514.7 | 13452.5 | 13239.6 | 12613.2 | 11232.6 | 9736.7 | 8863.7 | 8940.0 | 8991.4 | 8501.7 |
| 45° | 14229.8 | 14215.6 | 14300.8 | 14242.2 | 13333.7 | 11901.6 | 10322.3 | 10004.7 | 10024.2 | 9412.0 |
| 47.5° | 14330.9 | 14323.8 | 14712.4 | 15262.5 | 15140.1 | 14343.3 | 12194.4 | 11332.0 | 11262.8 | 10439.4 |
| 50° | 13734.7 | 13720.5 | 14465.8 | 15496.8 | 16346.8 | 16394.7 | 14320.3 | 12827.9 | 12675.3 | 11502.4 |
| 52.5° | 11830.6 | 11827.1 | 13051.5 | 14767.5 | 16770.9 | 18190.5 | 16421.3 | 14471.1 | 14215.6 | 12627.4 |
| 55° | 9103.2 | 9168.9 | 10572.5 | 12600.8 | 15997.2 | 19054.7 | 18307.6 | 16295.3 | 15903.1 | 13759.5 |
| 57.5° | 6448.6 | 6544.4 | 7932.0 | 9738.5 | 13598.1 | 18543.6 | 19583.5 | 18123.0 | 17700.7 | 14888.1 |
| 60° | 3463.8 | 3549.0 | 4938.5 | 7094.5 | 10116.5 | 16637.8 | 20256.0 | 19709.5 | 19310.2 | 15959.9 |
| 62.5° | 2063.8 | 2092.1 | 2667.1 | 4580.0 | 6842.5 | 12710.8 | 19970.3 | 20917.9 | 20589.6 | 16859.6 |
| 65° | 1481.7 | 1487.0 | 1776.3 | 2796.6 | 4154.1 | 7722.7 | 17966.9 | 21496.4 | 21395.2 | 17537.5 |
| 67.5° | 1247.5 | 1243.9 | 1364.6 | 1857.9 | 2830.3 | 3868.4 | 13770.2 | 20678.3 | 21107.8 | 17966.9 |
| 70° | 1070.0 | 1075.4 | 1217.3 | 1361.0 | 2127.6 | 2189.7 | 6846.1 | 18004.2 | 18919.8 | 18080.5 |
| 72.5° | 796.8 | 814.5 | 945.8 | 1240.4 | 1605.9 | 1506.6 | 2363.6 | 13349.6 | 15005.2 | 17035.3 |
| 75° | 562.5 | 571.4 | 665.4 | 1043.4 | 1197.8 | 1096.6 | 1206.7 | 6901.1 | 9023.4 | 13060.4 |
| 77.5° | 433.0 | 449.0 | 504.0 | 729.3 | 1180.0 | 770.1 | 738.2 | 2388.5 | 3669.7 | 7889.5 |
| 80° | 234.2 | 262.6 | 363.8 | 527.0 | 828.7 | 544.8 | 365.5 | 951.1 | 1243.9 | 3689.2 |
| 82.5° | 120.7 | 134.9 | 253.8 | 379.7 | 472.0 | 475.6 | 181.0 | 395.7 | 512.8 | 1139.2 |
| 85° | 47.9 | 58.6 | 170.4 | 209.4 | 243.1 | 234.2 | 81.6 | 159.7 | 184.5 | 315.9 |
| 87.5° | 10.6 | 17.7 | 62.1 | 47.9 | 46.1 | 49.7 | 19.5 | 37.3 | 35.5 | 37.3 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3183.5 | 0° | 3183.5 | 3183.5 | 3183.5 | 3183.5 | 3183.5 | 3183.5 | 3183.5 | 3183.5 | 3183.5 | 3183.5 |
| 3204.8 | 2.5° | 3203.0 | 3195.9 | 3176.4 | 3155.1 | 3130.2 | 3116.0 | 3107.2 | 3105.4 | 3093.0 | 3084.1 |
| 3275.7 | 5° | 3256.2 | 3249.1 | 3211.9 | 3167.5 | 3119.6 | 3082.3 | 3046.8 | 3014.9 | 2968.8 | 2959.9 |
| 3378.7 | 7.5° | 3362.7 | 3343.2 | 3282.8 | 3222.5 | 3132.0 | 3023.8 | 2892.4 | 2741.6 | 2606.8 | 2565.9 |
| 3515.3 | 10° | 3494.0 | 3467.4 | 3391.1 | 3284.6 | 3084.1 | 2789.5 | 2471.9 | 2177.3 | 1943.1 | 1877.4 |
| 3676.8 | 12.5° | 3643.1 | 3620.0 | 3518.8 | 3321.9 | 2883.6 | 2349.4 | 1863.2 | 1497.7 | 1270.5 | 1213.8 |
| 3848.9 | 15° | 3820.5 | 3786.8 | 3646.6 | 3265.1 | 2525.1 | 1785.2 | 1279.4 | 1062.9 | 981.3 | 970.7 |
| 4045.9 | 17.5° | 4008.6 | 3953.6 | 3760.2 | 3061.0 | 2042.5 | 1268.8 | 988.4 | 926.3 | 890.8 | 880.2 |
| 4244.6 | 20° | 4180.7 | 4109.8 | 3827.6 | 2752.3 | 1526.1 | 988.4 | 885.5 | 844.7 | 812.7 | 800.3 |
| 4443.4 | 22.5° | 4352.9 | 4251.7 | 3827.6 | 2331.7 | 1144.6 | 876.6 | 812.7 | 775.5 | 738.2 | 722.2 |
| 4656.3 | 25° | 4532.1 | 4397.2 | 3760.2 | 1863.2 | 921.0 | 803.9 | 743.5 | 702.7 | 670.8 | 651.2 |
| 4858.6 | 27.5° | 4706.0 | 4519.7 | 3605.8 | 1419.6 | 819.8 | 740.0 | 679.6 | 640.6 | 610.4 | 596.2 |
| 5078.6 | 30° | 4871.0 | 4640.3 | 3389.3 | 1077.1 | 754.2 | 677.9 | 621.1 | 587.4 | 557.2 | 543.0 |
| 5364.3 | 32.5° | 5094.6 | 4792.9 | 3158.6 | 883.7 | 697.4 | 619.3 | 567.8 | 535.9 | 509.3 | 498.6 |
| 5735.2 | 35° | 5405.2 | 5018.3 | 2959.9 | 867.7 | 649.5 | 571.4 | 519.9 | 489.8 | 463.1 | 454.3 |
| 6214.3 | 37.5° | 5845.2 | 5382.1 | 2855.2 | 974.2 | 610.4 | 528.8 | 480.9 | 449.0 | 424.1 | 417.0 |
| 6823.0 | 40° | 6388.2 | 5875.4 | 2912.0 | 1080.7 | 583.8 | 491.5 | 445.4 | 413.5 | 392.2 | 383.3 |
| 7522.1 | 42.5° | 7032.4 | 6484.1 | 3226.1 | 1162.3 | 566.1 | 459.6 | 411.7 | 376.2 | 362.0 | 358.5 |
| 8315.3 | 45° | 7772.3 | 7153.0 | 3706.9 | 1249.3 | 537.7 | 429.4 | 378.0 | 351.4 | 340.7 | 338.9 |
| 9177.8 | 47.5° | 8613.5 | 7887.7 | 4264.1 | 1357.5 | 509.3 | 401.0 | 351.4 | 333.6 | 324.7 | 321.2 |
| 10077.4 | 50° | 9447.5 | 8627.7 | 4837.3 | 1417.8 | 486.2 | 374.4 | 330.1 | 315.9 | 308.8 | 307.0 |
| 11028.6 | 52.5° | 10320.5 | 9388.9 | 5300.5 | 1361.0 | 466.7 | 353.1 | 312.3 | 301.7 | 294.6 | 292.8 |
| 11905.2 | 55° | 11152.8 | 10004.7 | 5380.3 | 1155.2 | 427.7 | 331.8 | 292.8 | 287.5 | 278.6 | 278.6 |
| 12794.2 | 57.5° | 11869.7 | 10313.4 | 4816.0 | 848.2 | 388.6 | 299.9 | 273.3 | 268.0 | 260.9 | 259.1 |
| 13596.3 | 60° | 12528.0 | 10224.7 | 3717.6 | 571.4 | 346.0 | 268.0 | 248.4 | 244.9 | 237.8 | 228.9 |
| 14293.7 | 62.5° | 12898.9 | 9834.3 | 2542.9 | 372.6 | 303.4 | 234.2 | 220.0 | 218.3 | 202.3 | 184.5 |
| 14810.0 | 65° | 13039.1 | 9032.2 | 1586.4 | 271.5 | 253.8 | 200.5 | 189.9 | 186.3 | 163.3 | 143.7 |
| 15102.8 | 67.5° | 12916.6 | 7712.0 | 800.3 | 214.7 | 200.5 | 166.8 | 156.2 | 156.2 | 140.2 | 122.4 |
| 15085.1 | 70° | 12426.9 | 5781.3 | 337.2 | 172.1 | 154.4 | 127.8 | 127.8 | 134.9 | 118.9 | 99.4 |
| 14302.5 | 72.5° | 11363.9 | 3889.7 | 179.2 | 131.3 | 115.3 | 90.5 | 104.7 | 110.0 | 94.0 | 74.5 |
| 11706.4 | 75° | 9034.0 | 2372.5 | 124.2 | 97.6 | 72.8 | 63.9 | 79.9 | 83.4 | 63.9 | 49.7 |
| 8026.1 | 77.5° | 6178.8 | 1362.8 | 83.4 | 62.1 | 46.1 | 37.3 | 55.0 | 51.5 | 33.7 | 23.1 |
| 3094.7 | 80° | 2713.2 | 567.8 | 47.9 | 28.4 | 17.7 | 14.2 | 19.5 | 14.2 | 10.6 | 7.1 |
| 424.1 | 82.5° | 317.6 | 133.1 | 17.7 | 10.6 | 7.1 | 3.5 | 1.8 | 0.0 | 0.0 | 0.0 |
| 129.5 | 85° | 65.7 | 16.0 | 8.9 | 3.5 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 23.1 | 87.5° | 12.4 | 3.5 | 1.8 | 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 |

(END O

| <u>180°</u> |
|-------------|
| 3183.5 |
| 3093.0 |
| 2956.3 |
| 2546.4 |
| 1852.6 |
| 1197.8 |
| 960.0 |
| 874.8 |
| 793.2 |
| 713.4 |
| 644.1 |
| 596.2 |
| 544.8 |
| 498.6 |
| 454.3 |
| 415.2 |
| 381.5 |
| 358.5 |
| 337.2 |
| 321.2 |
| 307.0 |
| 292.8 |
| 276.8 |
| 257.3 |
| 227.1 |
| 181.0 |
| 142.0 |
| 120.7 |
| 97.6 |
| 74.5 |
| 47.9 |
| 24.8 |
| 7.1 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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