

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: P941689

Luminaire Tested: **GALN-SB5B-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5B-830-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25262 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

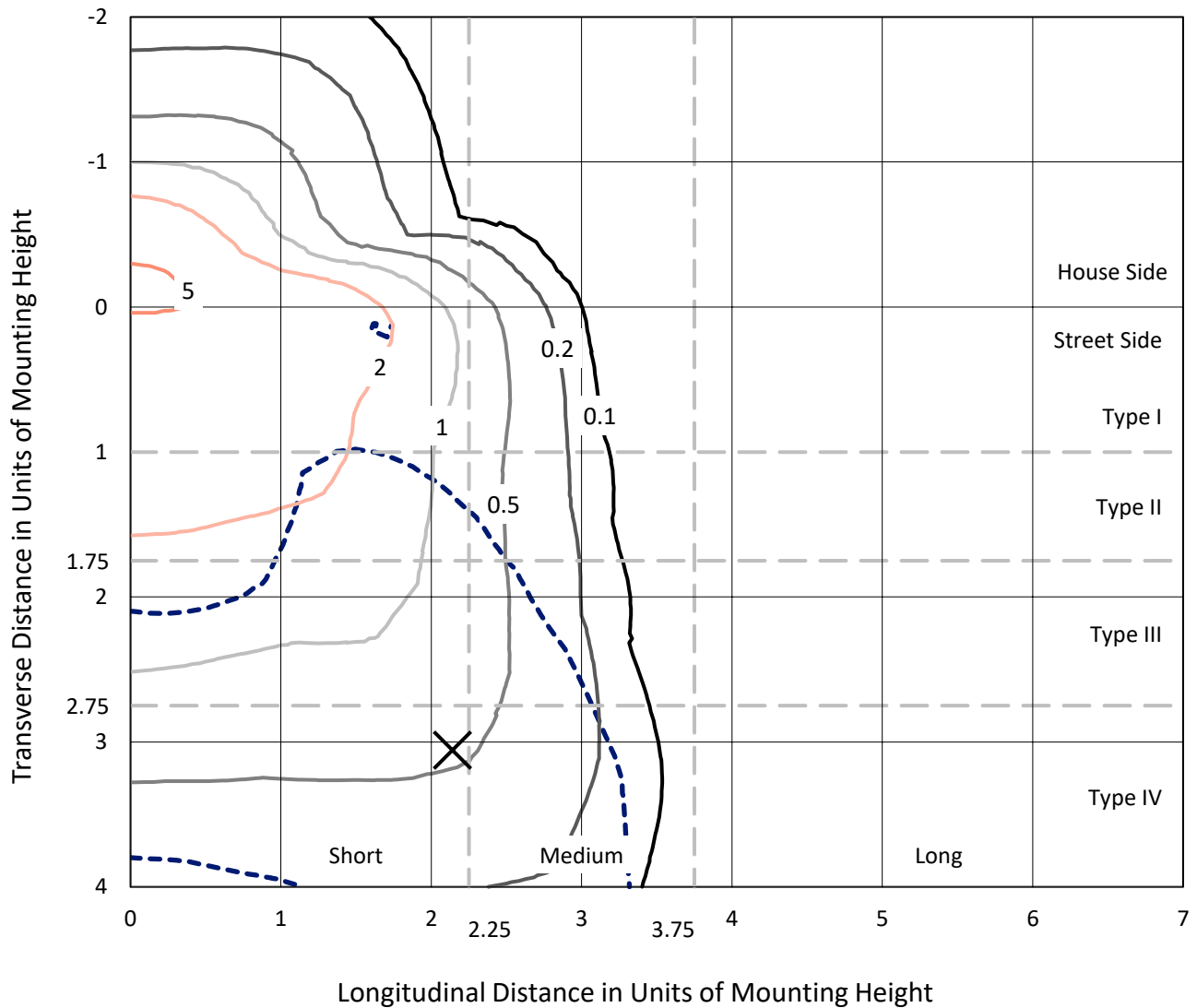
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

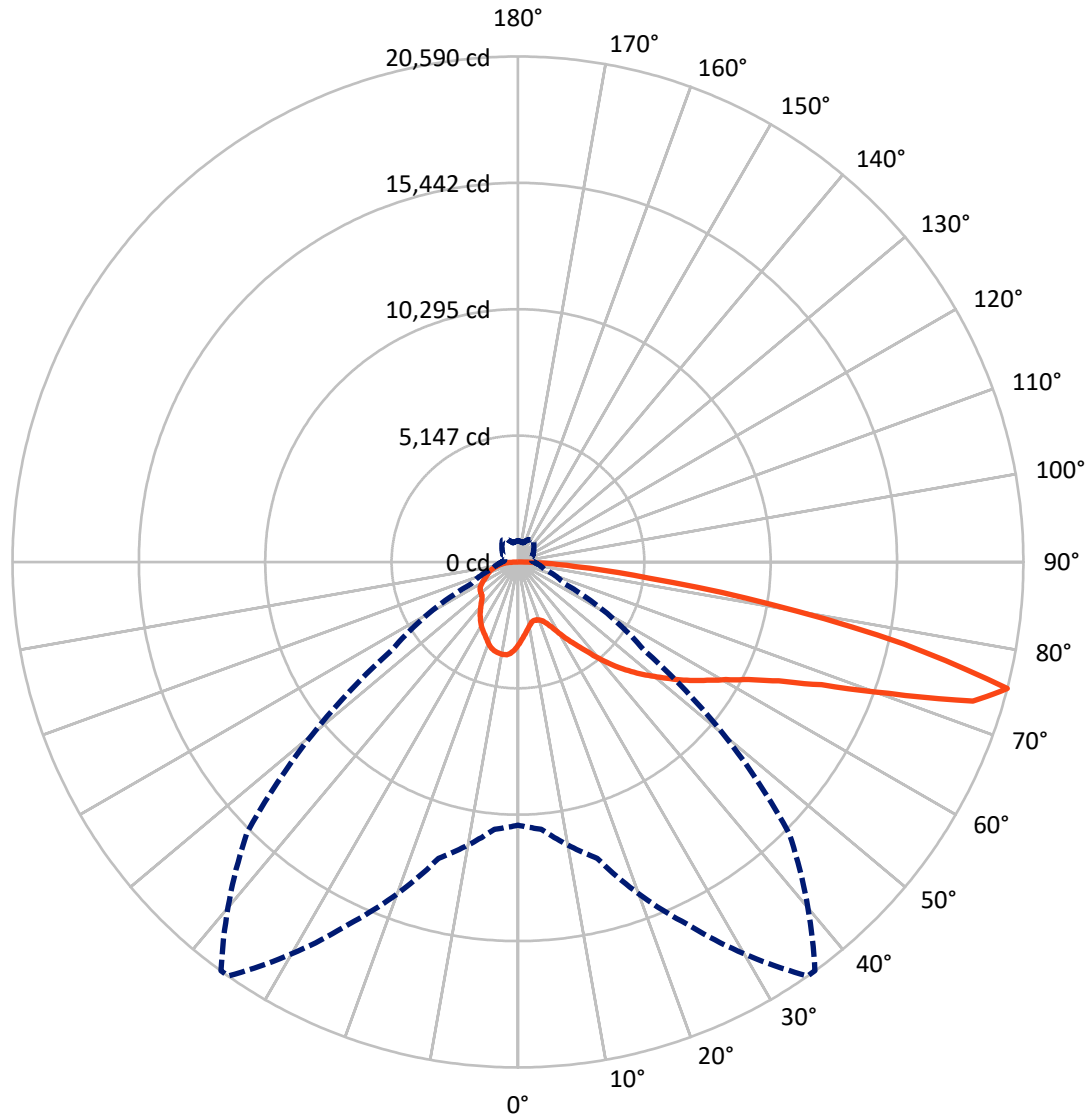
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6011.7 | 0.0 | 6011.7 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 19250.3 | 0.0 | 19250.3 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 25262.0 | 0.0 | 25262.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 318.7 | 1.3 |
| 10°-20° | 919.3 | 3.6 |
| 20°-30° | 1543.8 | 6.1 |
| 30°-40° | 2399.3 | 9.5 |
| 40°-50° | 3561.2 | 14.1 |
| 50°-60° | 4916.4 | 19.5 |
| 60°-70° | 5964.8 | 23.6 |
| 70°-80° | 4929.4 | 19.5 |
| 80°-90° | 709.0 | 2.8 |
| 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° | 25262.0 | 100.0 |
| 0°-180° | 25262.0 | 100.0 |

Coefficient of Utilization



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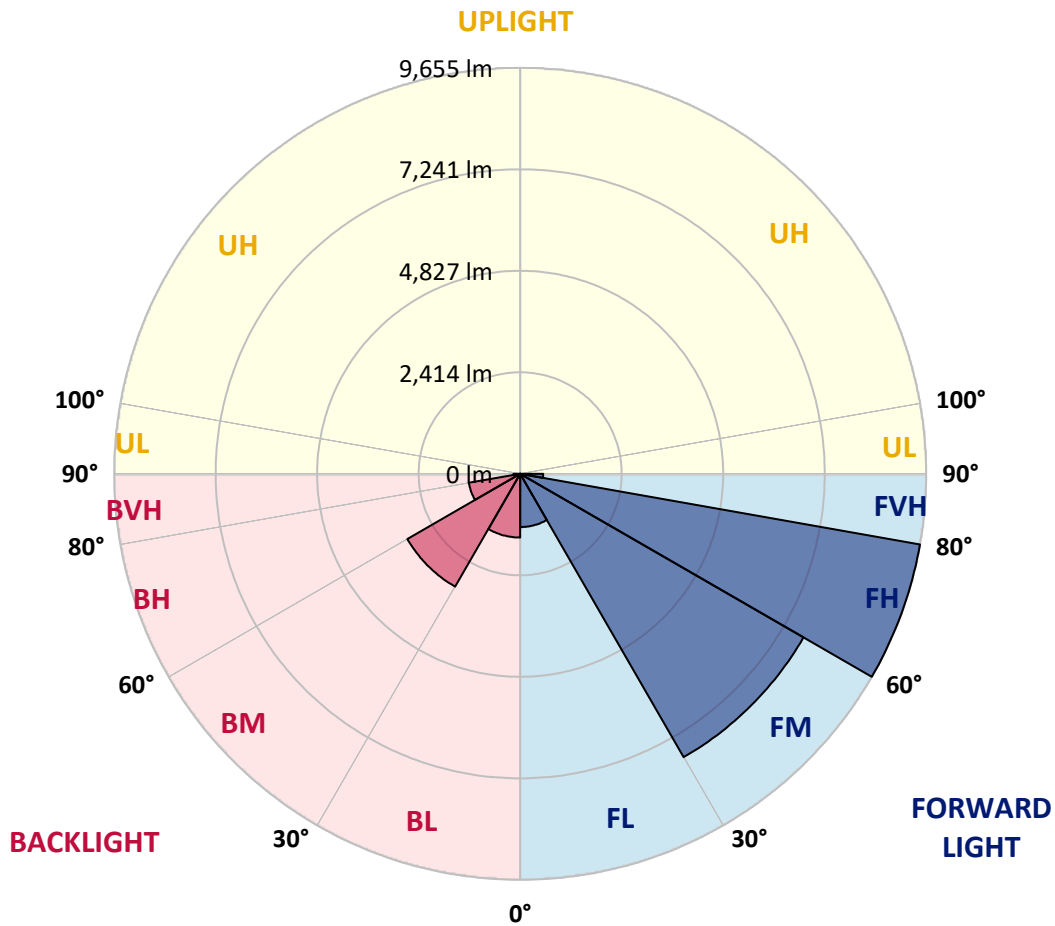
CATALOG NUMBER: GALN-SB5B-830-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1266.8 | 5.0 | | | |
| FM (30°-60°) | 7779.3 | 30.8 | | | |
| FH (60°-80°) | 9654.8 | 38.2 | | | G4/12000 |
| FVH (80°-90°) | 549.4 | 2.2 | | | G4/750 |
| BL (0°-30°) | 1515.0 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 3097.6 | 12.3 | B3/5000 | | |
| BH (60°-80°) | 1239.4 | 4.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 159.7 | 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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 3366.3 | 3366.3 | 3366.3 | 3366.3 | 3366.3 | 3366.3 | 3366.3 | 3366.3 | 3366.3 | 3366.3 |
| 2.5° | 3104.1 | 3123.2 | 3131.4 | 3127.3 | 3147.8 | 3145.1 | 3173.8 | 3209.3 | 3258.4 | 3306.2 |
| 5° | 2865.1 | 2885.6 | 2903.4 | 2919.8 | 2959.4 | 2971.7 | 3016.7 | 3085.0 | 3175.1 | 3266.6 |
| 7.5° | 2642.5 | 2660.3 | 2687.6 | 2717.6 | 2784.6 | 2796.9 | 2872.0 | 2978.5 | 3104.1 | 3238.0 |
| 10° | 2460.9 | 2478.7 | 2507.3 | 2541.5 | 2624.8 | 2639.8 | 2735.4 | 2877.4 | 3041.3 | 3210.6 |
| 12.5° | 2383.1 | 2388.5 | 2404.9 | 2439.1 | 2511.4 | 2521.0 | 2626.1 | 2788.7 | 2979.9 | 3190.2 |
| 15° | 2379.0 | 2389.9 | 2391.3 | 2409.0 | 2469.1 | 2473.2 | 2570.2 | 2731.3 | 2941.6 | 3186.1 |
| 17.5° | 2419.9 | 2428.1 | 2415.8 | 2426.8 | 2477.3 | 2484.1 | 2560.6 | 2704.0 | 2929.3 | 3203.8 |
| 20° | 2529.2 | 2536.0 | 2499.1 | 2484.1 | 2521.0 | 2526.5 | 2601.6 | 2721.7 | 2941.6 | 3240.7 |
| 22.5° | 2761.3 | 2765.4 | 2675.3 | 2613.9 | 2616.6 | 2619.3 | 2684.9 | 2794.1 | 2989.4 | 3307.6 |
| 25° | 3123.2 | 3120.5 | 2977.1 | 2858.3 | 2790.0 | 2775.0 | 2818.7 | 2911.6 | 3070.0 | 3396.4 |
| 27.5° | 3546.6 | 3526.1 | 3382.7 | 3205.2 | 3056.3 | 3034.5 | 3024.9 | 3064.5 | 3184.7 | 3513.8 |
| 30° | 4024.6 | 4005.5 | 3851.1 | 3619.0 | 3412.8 | 3377.3 | 3287.1 | 3266.6 | 3355.4 | 3673.6 |
| 32.5° | 4549.0 | 4536.7 | 4352.3 | 4071.0 | 3795.1 | 3754.2 | 3602.6 | 3548.0 | 3617.6 | 3915.3 |
| 35° | 4988.7 | 4977.8 | 4824.8 | 4535.3 | 4198.0 | 4147.5 | 3993.2 | 3931.7 | 3967.2 | 4225.3 |
| 37.5° | 5386.1 | 5380.7 | 5249.6 | 5021.5 | 4673.3 | 4611.8 | 4438.4 | 4417.9 | 4411.1 | 4633.7 |
| 40° | 5754.9 | 5741.2 | 5604.6 | 5484.5 | 5226.4 | 5170.4 | 5017.4 | 4999.7 | 4947.8 | 5136.2 |
| 42.5° | 6163.2 | 6127.7 | 5929.7 | 5873.7 | 5804.0 | 5757.6 | 5666.1 | 5668.8 | 5554.1 | 5703.0 |
| 45° | 6496.4 | 6475.9 | 6272.4 | 6239.7 | 6314.8 | 6295.7 | 6374.9 | 6395.3 | 6172.7 | 6297.0 |
| 47.5° | 6854.2 | 6835.1 | 6663.0 | 6639.8 | 6843.3 | 6848.7 | 7128.7 | 7135.5 | 6776.4 | 6914.3 |
| 50° | 7295.3 | 7268.0 | 7097.3 | 7126.0 | 7354.0 | 7374.5 | 7886.6 | 7840.2 | 7332.2 | 7541.1 |
| 52.5° | 7586.2 | 7602.6 | 7565.7 | 7612.1 | 7923.5 | 7942.6 | 8632.3 | 8513.5 | 7882.5 | 8159.8 |
| 55° | 7800.6 | 7833.4 | 7948.1 | 8054.6 | 8524.4 | 8543.5 | 9335.6 | 9154.0 | 8338.7 | 8733.3 |
| 57.5° | 8076.5 | 8030.0 | 8244.4 | 8452.0 | 9095.2 | 9145.8 | 10019.8 | 9771.2 | 8742.9 | 9227.7 |
| 60° | 8472.5 | 8439.7 | 8606.3 | 8913.6 | 9734.4 | 9814.9 | 10743.6 | 10327.1 | 9039.3 | 9619.7 |
| 62.5° | 9275.5 | 9193.6 | 9219.5 | 9491.3 | 10540.1 | 10646.6 | 11560.2 | 10811.9 | 9186.7 | 9772.6 |
| 65° | 10475.9 | 10335.3 | 10204.2 | 10392.6 | 11675.0 | 11780.1 | 12482.1 | 11192.9 | 9132.1 | 9476.3 |
| 67.5° | 11987.7 | 11848.4 | 11687.3 | 11864.8 | 13346.5 | 13429.8 | 13619.6 | 11407.3 | 8701.9 | 8334.6 |
| 70° | 13234.5 | 13182.6 | 13375.2 | 14105.8 | 16016.4 | 16019.1 | 15078.2 | 11229.8 | 7523.4 | 5909.2 |
| 72.5° | 13069.3 | 13037.9 | 14052.6 | 16311.3 | 19381.3 | 19309.0 | 16458.8 | 9886.0 | 5067.9 | 2665.8 |
| 75° | 10721.7 | 10925.2 | 12497.1 | 16271.7 | 20589.9 | 20580.4 | 15613.5 | 6284.7 | 2096.3 | 1104.8 |
| 77.5° | 5749.4 | 6071.7 | 8113.3 | 12013.6 | 16073.7 | 16315.4 | 10977.1 | 2198.7 | 900.0 | 707.4 |
| 80° | 1875.0 | 2156.4 | 3233.9 | 6116.8 | 10444.5 | 10399.4 | 4704.7 | 863.1 | 615.9 | 501.2 |
| 82.5° | 796.2 | 829.0 | 1444.9 | 2888.4 | 5360.2 | 5276.9 | 1498.1 | 495.7 | 432.9 | 342.8 |
| 85° | 311.4 | 348.2 | 637.8 | 1335.6 | 2321.6 | 2271.1 | 540.8 | 245.8 | 277.2 | 224.0 |
| 87.5° | 102.4 | 124.3 | 228.1 | 457.5 | 722.4 | 696.5 | 132.5 | 84.7 | 120.2 | 102.4 |
| 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-SB5B-830-U-T4FT

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3366.3 | 0° | 3366.3 | 3366.3 | 3366.3 | 3366.3 | 3366.3 | 3366.3 | 3366.3 | 3366.3 | 3366.3 | 3366.3 |
| 3375.9 | 2.5° | 3395.0 | 3416.9 | 3442.8 | 3481.0 | 3513.8 | 3541.1 | 3569.8 | 3587.6 | 3594.4 | 3614.9 |
| 3381.4 | 5° | 3419.6 | 3467.4 | 3531.6 | 3594.4 | 3655.9 | 3692.7 | 3725.5 | 3741.9 | 3756.9 | 3767.8 |
| 3396.4 | 7.5° | 3460.6 | 3522.0 | 3623.1 | 3705.0 | 3756.9 | 3787.0 | 3808.8 | 3803.3 | 3808.8 | 3811.5 |
| 3412.8 | 10° | 3496.1 | 3582.1 | 3702.3 | 3780.1 | 3819.7 | 3821.1 | 3815.6 | 3796.5 | 3787.0 | 3788.3 |
| 3437.3 | 12.5° | 3538.4 | 3634.0 | 3763.7 | 3829.3 | 3840.2 | 3810.2 | 3787.0 | 3754.2 | 3741.9 | 3736.4 |
| 3474.2 | 15° | 3595.8 | 3705.0 | 3830.7 | 3855.2 | 3827.9 | 3789.7 | 3750.1 | 3696.8 | 3669.5 | 3647.7 |
| 3537.0 | 17.5° | 3665.4 | 3785.6 | 3882.5 | 3864.8 | 3806.1 | 3743.3 | 3679.1 | 3598.5 | 3542.5 | 3519.3 |
| 3623.1 | 20° | 3762.4 | 3870.3 | 3922.2 | 3844.3 | 3755.5 | 3659.9 | 3550.7 | 3452.4 | 3400.5 | 3377.3 |
| 3732.3 | 22.5° | 3879.8 | 3983.6 | 3960.4 | 3808.8 | 3683.2 | 3530.2 | 3393.6 | 3321.3 | 3295.3 | 3278.9 |
| 3873.0 | 25° | 4020.5 | 4109.2 | 3987.7 | 3756.9 | 3564.4 | 3358.1 | 3253.0 | 3229.8 | 3217.5 | 3205.2 |
| 4045.1 | 27.5° | 4203.5 | 4251.3 | 4008.2 | 3680.4 | 3378.6 | 3175.1 | 3136.9 | 3141.0 | 3136.9 | 3116.4 |
| 4284.1 | 30° | 4445.2 | 4435.6 | 4027.3 | 3556.2 | 3165.6 | 3009.9 | 3012.6 | 3030.4 | 3033.1 | 3019.5 |
| 4617.3 | 32.5° | 4763.4 | 4666.4 | 4036.9 | 3395.0 | 2962.1 | 2865.1 | 2867.9 | 2887.0 | 2900.6 | 2877.4 |
| 5052.9 | 35° | 5148.5 | 4935.5 | 4021.8 | 3192.9 | 2805.0 | 2727.2 | 2706.7 | 2712.2 | 2716.3 | 2694.4 |
| 5581.4 | 37.5° | 5597.8 | 5237.3 | 3954.9 | 2968.9 | 2675.3 | 2592.0 | 2548.3 | 2511.4 | 2489.6 | 2469.1 |
| 6179.6 | 40° | 6090.8 | 5566.4 | 3832.0 | 2750.4 | 2530.6 | 2448.6 | 2383.1 | 2313.4 | 2239.7 | 2212.4 |
| 6813.2 | 42.5° | 6607.0 | 5905.1 | 3683.2 | 2541.5 | 2363.9 | 2297.0 | 2227.4 | 2126.3 | 2015.7 | 1959.7 |
| 7471.5 | 45° | 7142.4 | 6252.0 | 3537.0 | 2335.3 | 2193.2 | 2164.6 | 2084.0 | 1962.4 | 1842.3 | 1771.3 |
| 8131.1 | 47.5° | 7666.8 | 6579.7 | 3322.6 | 2127.7 | 2033.5 | 2064.9 | 2002.0 | 1890.1 | 1756.2 | 1644.2 |
| 8785.2 | 50° | 8168.0 | 6887.0 | 2971.7 | 1917.4 | 1903.7 | 2034.8 | 1974.7 | 1813.6 | 1660.6 | 1517.2 |
| 9427.1 | 52.5° | 8665.1 | 7135.5 | 2522.4 | 1726.2 | 1834.1 | 2026.6 | 1939.2 | 1761.7 | 1574.6 | 1424.4 |
| 10030.7 | 55° | 9087.0 | 7263.9 | 2089.4 | 1562.3 | 1733.0 | 1957.0 | 1896.9 | 1700.2 | 1453.1 | 1293.3 |
| 10444.5 | 57.5° | 9327.4 | 7160.1 | 1728.9 | 1401.2 | 1593.7 | 1842.3 | 1824.5 | 1569.1 | 1308.3 | 1185.4 |
| 10525.1 | 60° | 9223.6 | 6739.5 | 1433.9 | 1260.5 | 1461.2 | 1718.0 | 1698.9 | 1439.4 | 1197.7 | 1081.6 |
| 10093.5 | 62.5° | 8651.4 | 5937.9 | 1200.4 | 1137.6 | 1341.1 | 1591.0 | 1573.2 | 1339.7 | 1113.0 | 1001.0 |
| 8947.8 | 65° | 7498.8 | 4830.3 | 1018.8 | 1035.2 | 1219.5 | 1438.0 | 1464.0 | 1256.4 | 1046.1 | 936.8 |
| 6922.5 | 67.5° | 5719.4 | 3498.8 | 876.7 | 946.4 | 1100.7 | 1287.8 | 1362.9 | 1196.3 | 990.1 | 886.3 |
| 4005.5 | 70° | 3259.8 | 1987.0 | 756.6 | 860.4 | 995.6 | 1148.5 | 1285.1 | 1148.5 | 930.0 | 844.0 |
| 1500.9 | 72.5° | 1235.9 | 912.3 | 654.1 | 774.3 | 894.5 | 1031.1 | 1199.0 | 1073.4 | 860.4 | 796.2 |
| 775.7 | 75° | 659.6 | 555.8 | 550.4 | 673.3 | 778.4 | 916.4 | 1091.2 | 999.7 | 808.5 | 841.2 |
| 536.7 | 77.5° | 449.3 | 393.3 | 460.2 | 576.3 | 651.4 | 789.3 | 976.4 | 887.7 | 700.6 | 697.8 |
| 371.5 | 80° | 311.4 | 278.6 | 374.2 | 464.3 | 503.9 | 663.7 | 852.2 | 762.0 | 570.8 | 532.6 |
| 229.4 | 82.5° | 187.1 | 181.6 | 280.0 | 346.9 | 356.4 | 512.1 | 706.0 | 639.1 | 467.1 | 407.0 |
| 136.6 | 85° | 102.4 | 107.9 | 178.9 | 203.5 | 207.6 | 357.8 | 553.1 | 494.4 | 359.2 | 301.8 |
| 49.2 | 87.5° | 28.7 | 36.9 | 65.6 | 80.6 | 99.7 | 185.7 | 329.1 | 293.6 | 180.3 | 125.6 |
| 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> |
|--------------|
| 3366.3 |
| 3613.5 |
| 3770.6 |
| 3815.6 |
| 3791.1 |
| 3733.7 |
| 3654.5 |
| 3520.7 |
| 3374.5 |
| 3281.7 |
| 3205.2 |
| 3120.5 |
| 3026.3 |
| 2888.4 |
| 2709.5 |
| 2482.8 |
| 2224.6 |
| 1966.5 |
| 1765.8 |
| 1632.0 |
| 1504.9 |
| 1408.0 |
| 1279.6 |
| 1169.0 |
| 1065.2 |
| 983.3 |
| 919.1 |
| 869.9 |
| 833.0 |
| 785.2 |
| 868.6 |
| 643.2 |
| 509.4 |
| 409.7 |
| 304.5 |
| 125.6 |
| 0.0 |

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