

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: P941417

Luminaire Tested: **GALN-SB4D-940-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-940-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29573 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

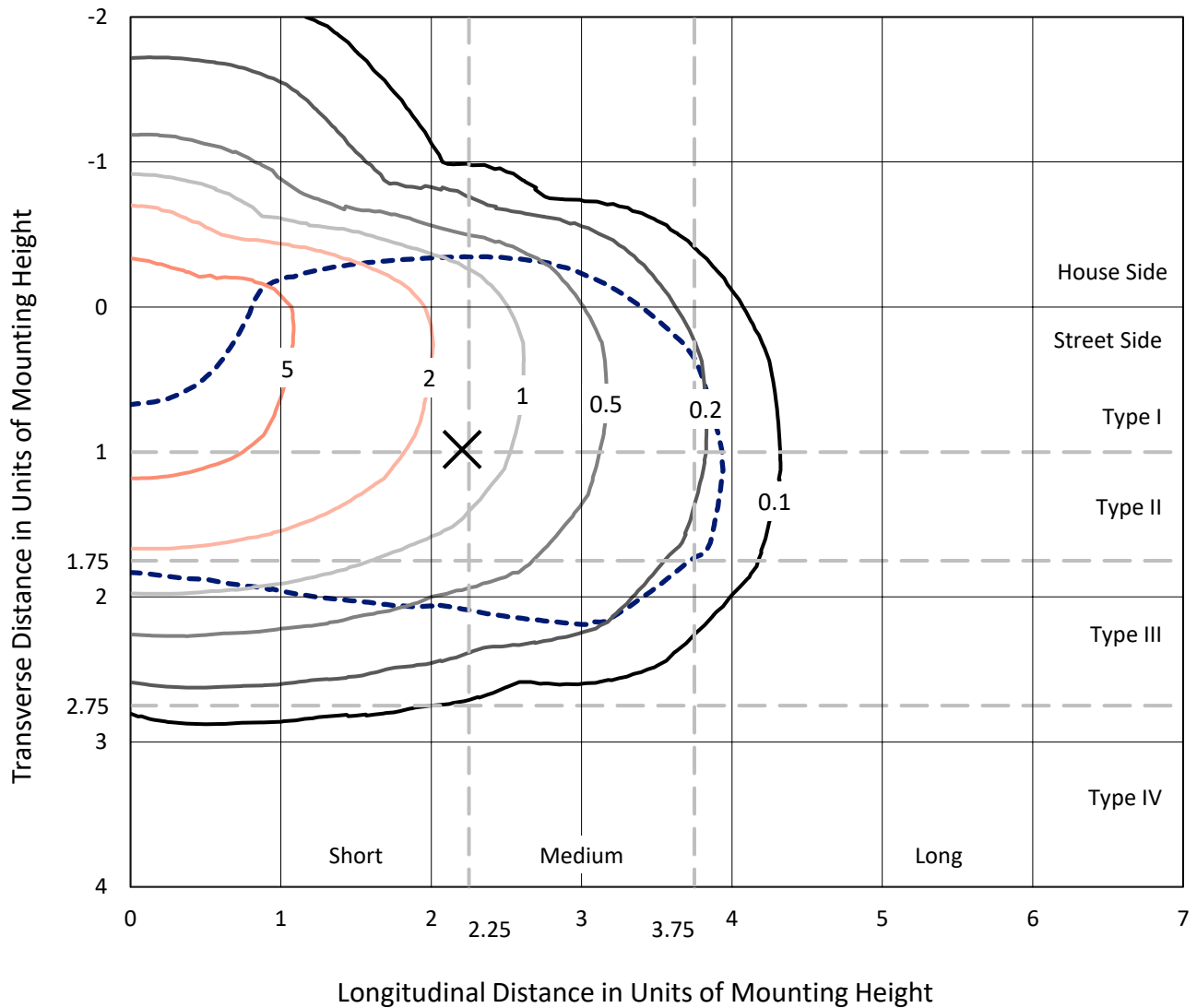
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

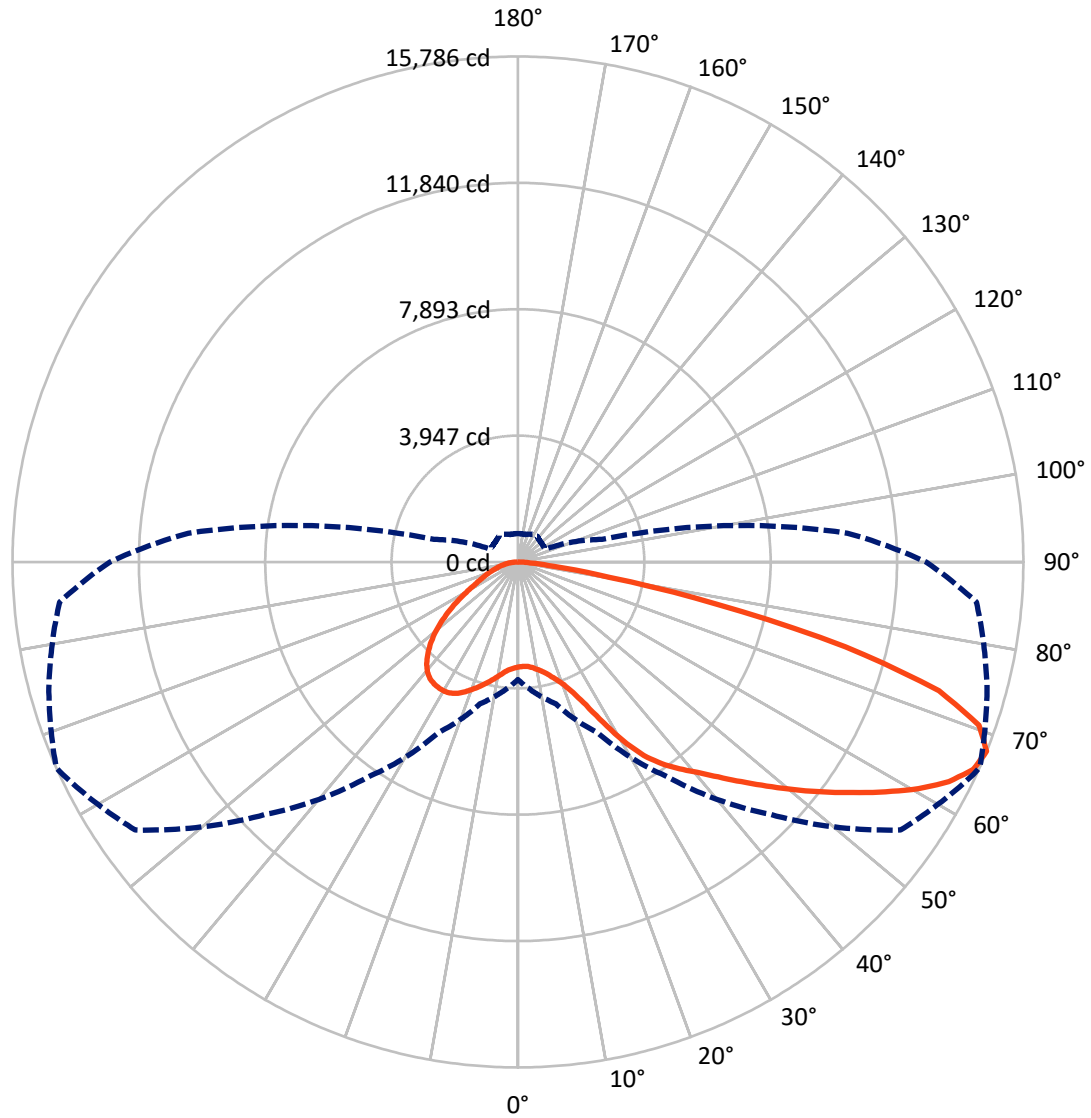
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7353.2 | 0.0 | 7353.2 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 22219.8 | 0.0 | 22219.8 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 29573.0 | 0.0 | 29573.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 325.2 | 1.1 |
| 10°-20° | 1074.4 | 3.6 |
| 20°-30° | 2070.9 | 7.0 |
| 30°-40° | 3631.1 | 12.3 |
| 40°-50° | 5398.2 | 18.3 |
| 50°-60° | 6842.7 | 23.1 |
| 60°-70° | 6695.4 | 22.6 |
| 70°-80° | 3193.8 | 10.8 |
| 80°-90° | 341.3 | 1.2 |
| 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° | 29573.0 | 100.0 |
| 0°-180° | 29573.0 | 100.0 |

Coefficient of Utilization



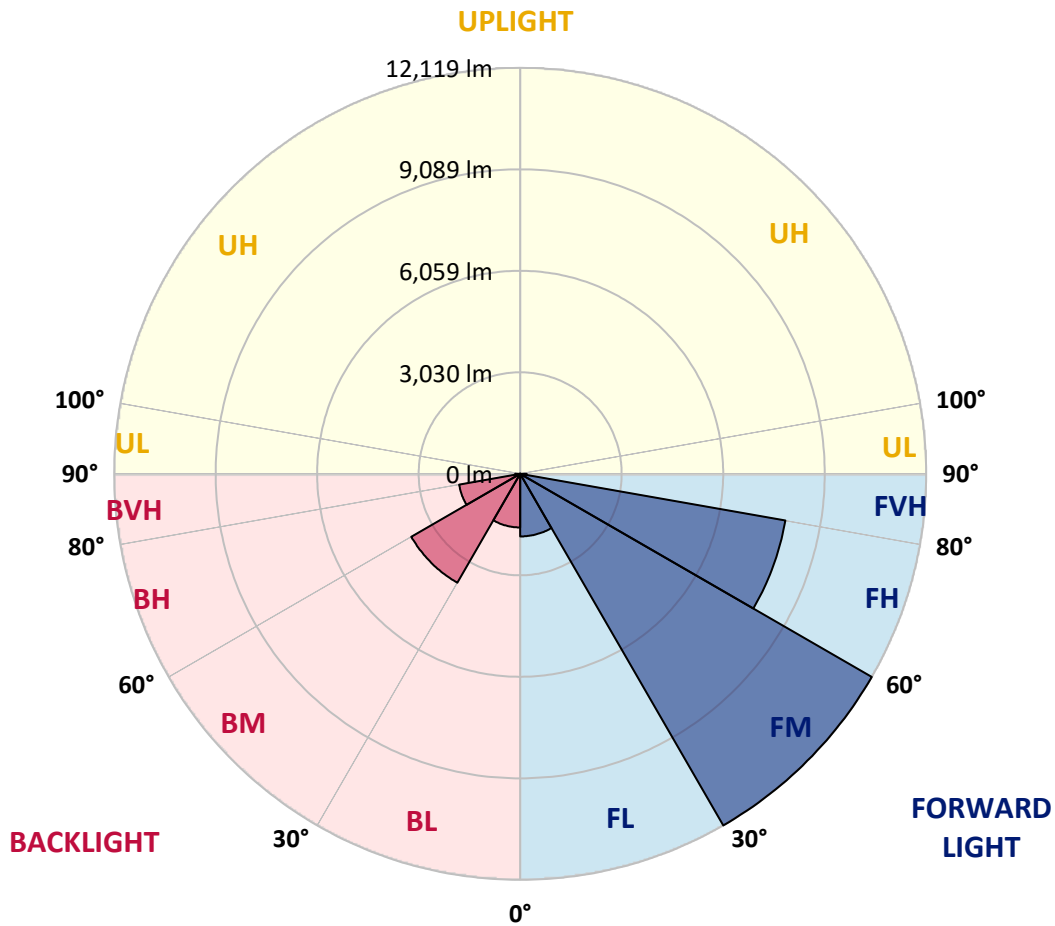
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1868.7 | 6.3 | | | |
| FM (30°-60°) | 12118.8 | 41.0 | | | |
| FH (60°-80°) | 8038.7 | 27.2 | | | G4/12000 |
| FVH (80°-90°) | 193.5 | 0.7 | | | G2/225 |
| BL (0°-30°) | 1601.8 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 3753.2 | 12.7 | B3/5000 | | |
| BH (60°-80°) | 1850.5 | 6.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 147.8 | 0.5 | | | 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 III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3280.0 | 3280.0 | 3280.0 | 3280.0 | 3280.0 | 3280.0 | 3280.0 | 3280.0 | 3280.0 | 3280.0 |
| 2.5° | 3245.9 | 3264.5 | 3259.8 | 3252.1 | 3250.5 | 3253.6 | 3258.3 | 3262.9 | 3261.4 | 3269.2 |
| 5° | 3236.5 | 3255.2 | 3253.6 | 3253.6 | 3259.8 | 3272.3 | 3280.0 | 3287.8 | 3280.0 | 3289.4 |
| 7.5° | 3242.7 | 3256.7 | 3262.9 | 3269.2 | 3284.7 | 3308.0 | 3326.7 | 3343.7 | 3334.4 | 3345.3 |
| 10° | 3322.0 | 3332.9 | 3339.1 | 3339.1 | 3350.0 | 3376.4 | 3395.0 | 3426.1 | 3418.3 | 3435.4 |
| 12.5° | 3466.5 | 3477.4 | 3477.4 | 3471.2 | 3478.9 | 3496.0 | 3502.2 | 3536.4 | 3522.4 | 3550.4 |
| 15° | 3643.6 | 3665.4 | 3648.3 | 3637.4 | 3640.5 | 3657.6 | 3656.1 | 3682.5 | 3668.5 | 3691.8 |
| 17.5° | 3839.4 | 3867.4 | 3839.4 | 3837.8 | 3831.6 | 3850.3 | 3851.8 | 3875.1 | 3850.3 | 3867.4 |
| 20° | 4070.9 | 4109.8 | 4086.5 | 4094.2 | 4080.2 | 4088.0 | 4095.8 | 4130.0 | 4091.1 | 4103.5 |
| 22.5° | 4397.2 | 4443.8 | 4419.0 | 4448.5 | 4439.2 | 4432.9 | 4431.4 | 4492.0 | 4431.4 | 4436.1 |
| 25° | 4872.7 | 4928.6 | 4885.1 | 4925.5 | 4925.5 | 4945.7 | 4969.0 | 5046.7 | 4945.7 | 4916.2 |
| 27.5° | 5575.0 | 5630.9 | 5545.5 | 5570.3 | 5562.5 | 5612.3 | 5587.4 | 5780.1 | 5671.3 | 5623.1 |
| 30° | 6420.2 | 6519.7 | 6358.1 | 6351.9 | 6344.1 | 6423.3 | 6459.1 | 6586.5 | 6476.2 | 6428.0 |
| 32.5° | 7333.9 | 7438.0 | 7245.3 | 7189.4 | 7159.8 | 7208.0 | 7178.5 | 7281.0 | 7204.9 | 7130.3 |
| 35° | 8300.3 | 8402.9 | 8219.5 | 8110.7 | 7992.7 | 7891.7 | 7786.0 | 7812.4 | 7740.9 | 7627.5 |
| 37.5° | 9213.9 | 9401.9 | 9207.7 | 9091.2 | 8873.7 | 8676.3 | 8381.1 | 8258.4 | 8191.5 | 8087.4 |
| 40° | 10144.7 | 10251.9 | 10104.3 | 10004.8 | 9768.6 | 9459.4 | 8987.1 | 8727.6 | 8637.5 | 8536.5 |
| 42.5° | 10829.9 | 10932.4 | 10853.2 | 10784.8 | 10599.9 | 10241.0 | 9630.3 | 9305.6 | 9175.1 | 9061.7 |
| 45° | 11373.7 | 11449.8 | 11400.1 | 11425.0 | 11345.7 | 10997.7 | 10296.9 | 9925.6 | 9790.4 | 9652.1 |
| 47.5° | 11592.8 | 11673.6 | 11752.8 | 11900.4 | 12035.6 | 11779.2 | 11013.2 | 10596.8 | 10453.9 | 10312.5 |
| 50° | 11567.9 | 11650.3 | 11880.2 | 12194.1 | 12613.6 | 12528.2 | 11768.4 | 11311.5 | 11179.5 | 11017.9 |
| 52.5° | 11369.0 | 11462.3 | 11757.5 | 12279.5 | 12947.7 | 13089.1 | 12537.5 | 12049.6 | 11925.3 | 11732.6 |
| 55° | 10847.0 | 10902.9 | 11345.7 | 12085.3 | 13026.9 | 13480.6 | 13291.1 | 12835.8 | 12711.5 | 12442.7 |
| 57.5° | 9879.0 | 9959.8 | 10604.6 | 11561.7 | 12828.0 | 13746.3 | 13953.0 | 13662.4 | 13542.8 | 13155.9 |
| 60° | 8615.7 | 8744.7 | 9482.7 | 10682.3 | 12321.5 | 13744.8 | 14554.3 | 14475.0 | 14375.6 | 13858.2 |
| 62.5° | 7186.2 | 7335.4 | 8045.5 | 9439.2 | 11435.8 | 13354.8 | 14930.3 | 15155.6 | 15104.3 | 14506.1 |
| 65° | 5519.0 | 5621.6 | 6328.6 | 7831.1 | 10057.6 | 12517.3 | 14973.8 | 15620.2 | 15629.5 | 14998.7 |
| 67.5° | 3674.7 | 3969.9 | 4583.7 | 5876.4 | 8211.7 | 11148.4 | 14591.6 | 15696.3 | 15786.4 | 15168.0 |
| 70° | 1793.1 | 2181.5 | 2782.8 | 3819.2 | 5876.4 | 9049.2 | 13592.5 | 15071.7 | 15272.1 | 14673.9 |
| 72.5° | 744.3 | 870.1 | 1198.0 | 1884.7 | 3373.3 | 6106.4 | 11585.0 | 13378.1 | 13749.4 | 13002.1 |
| 75° | 501.9 | 543.8 | 685.2 | 966.5 | 1536.7 | 3011.2 | 8354.7 | 9975.3 | 10573.5 | 9819.9 |
| 77.5° | 386.9 | 413.3 | 498.8 | 675.9 | 913.6 | 1138.9 | 4471.8 | 6011.6 | 6320.8 | 5851.5 |
| 80° | 304.5 | 324.7 | 372.9 | 492.5 | 647.9 | 609.1 | 1524.3 | 2723.8 | 2902.5 | 2434.8 |
| 82.5° | 264.1 | 271.9 | 267.3 | 334.1 | 430.4 | 355.8 | 500.3 | 1005.3 | 1109.4 | 804.9 |
| 85° | 191.1 | 212.9 | 222.2 | 206.7 | 228.4 | 180.2 | 205.1 | 355.8 | 391.6 | 349.6 |
| 87.5° | 77.7 | 115.0 | 141.4 | 133.6 | 83.9 | 51.3 | 63.7 | 104.1 | 119.6 | 130.5 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3280.0 | 0° | 3280.0 | 3280.0 | 3280.0 | 3280.0 | 3280.0 | 3280.0 | 3280.0 | 3280.0 | 3280.0 | 3280.0 |
| 3281.6 | 2.5° | 3283.1 | 3294.0 | 3301.8 | 3311.1 | 3317.3 | 3326.7 | 3345.3 | 3356.2 | 3357.7 | 3365.5 |
| 3306.5 | 5° | 3312.7 | 3328.2 | 3345.3 | 3370.2 | 3398.1 | 3421.4 | 3457.2 | 3482.0 | 3491.4 | 3499.1 |
| 3367.0 | 7.5° | 3376.4 | 3398.1 | 3429.2 | 3472.7 | 3513.1 | 3544.2 | 3587.7 | 3617.2 | 3646.7 | 3657.6 |
| 3463.4 | 10° | 3471.2 | 3502.2 | 3547.3 | 3606.3 | 3649.8 | 3690.2 | 3735.3 | 3760.2 | 3789.7 | 3802.1 |
| 3578.4 | 12.5° | 3589.2 | 3621.9 | 3680.9 | 3763.3 | 3803.7 | 3831.6 | 3847.2 | 3841.0 | 3847.2 | 3858.0 |
| 3716.6 | 15° | 3724.4 | 3760.2 | 3827.0 | 3915.5 | 3943.5 | 3918.6 | 3884.5 | 3853.4 | 3848.7 | 3851.8 |
| 3884.5 | 17.5° | 3884.5 | 3910.9 | 3988.6 | 4063.1 | 4042.9 | 3940.4 | 3865.8 | 3816.1 | 3791.2 | 3783.5 |
| 4098.9 | 20° | 4108.2 | 4108.2 | 4171.9 | 4218.5 | 4083.3 | 3909.3 | 3792.8 | 3712.0 | 3660.7 | 3639.0 |
| 4391.0 | 22.5° | 4380.1 | 4355.3 | 4395.7 | 4363.0 | 4075.6 | 3822.3 | 3660.7 | 3520.9 | 3443.2 | 3412.1 |
| 4799.6 | 25° | 4725.1 | 4695.5 | 4684.7 | 4482.7 | 4019.6 | 3684.0 | 3421.4 | 3252.1 | 3183.7 | 3166.6 |
| 5388.5 | 27.5° | 5245.6 | 5171.0 | 5029.6 | 4547.9 | 3917.1 | 3466.5 | 3141.7 | 2984.8 | 2946.0 | 2947.5 |
| 6145.2 | 30° | 5938.6 | 5789.4 | 5442.9 | 4558.8 | 3749.3 | 3158.8 | 2855.9 | 2744.0 | 2725.3 | 2733.1 |
| 6780.7 | 32.5° | 6580.3 | 6438.9 | 5865.5 | 4509.1 | 3491.4 | 2857.4 | 2599.5 | 2524.9 | 2496.9 | 2506.3 |
| 7265.5 | 35° | 7083.7 | 7044.9 | 6257.1 | 4439.2 | 3174.4 | 2574.6 | 2369.5 | 2305.8 | 2251.4 | 2239.0 |
| 7722.3 | 37.5° | 7559.2 | 7543.6 | 6550.8 | 4341.3 | 2860.5 | 2374.2 | 2184.6 | 2100.7 | 2021.5 | 1978.0 |
| 8227.3 | 40° | 8081.2 | 8065.7 | 6743.4 | 4190.6 | 2582.4 | 2200.2 | 2018.4 | 1908.0 | 1810.2 | 1730.9 |
| 8799.1 | 42.5° | 8668.6 | 8576.9 | 6835.1 | 3974.6 | 2346.2 | 2052.5 | 1883.2 | 1734.0 | 1605.1 | 1532.0 |
| 9445.4 | 45° | 9310.3 | 9103.6 | 6833.5 | 3699.6 | 2147.3 | 1917.4 | 1738.7 | 1527.4 | 1407.7 | 1339.4 |
| 10108.9 | 47.5° | 9990.8 | 9607.0 | 6749.6 | 3395.0 | 1954.7 | 1768.2 | 1514.9 | 1353.3 | 1274.1 | 1232.2 |
| 10829.9 | 50° | 10693.1 | 10077.8 | 6606.7 | 3045.4 | 1757.3 | 1598.8 | 1375.1 | 1264.8 | 1204.2 | 1165.3 |
| 11544.6 | 52.5° | 11353.5 | 10505.1 | 6434.2 | 2649.2 | 1556.9 | 1434.1 | 1312.9 | 1227.5 | 1163.8 | 1120.3 |
| 12237.6 | 55° | 11967.2 | 10873.4 | 6190.3 | 2243.7 | 1393.7 | 1323.8 | 1283.4 | 1212.0 | 1138.9 | 1087.6 |
| 12941.5 | 57.5° | 12512.6 | 11112.7 | 5769.2 | 1863.0 | 1277.2 | 1247.7 | 1252.3 | 1185.5 | 1101.6 | 1058.1 |
| 13634.4 | 60° | 12966.3 | 11288.2 | 5146.1 | 1510.3 | 1182.4 | 1173.1 | 1204.2 | 1135.8 | 1037.9 | 988.2 |
| 14220.2 | 62.5° | 13238.2 | 11285.1 | 4381.7 | 1236.8 | 1101.6 | 1104.7 | 1140.5 | 1073.7 | 974.2 | 927.6 |
| 14526.3 | 65° | 13214.9 | 11008.6 | 3542.6 | 1058.1 | 1023.9 | 1027.1 | 1073.7 | 1005.3 | 921.4 | 893.4 |
| 14372.5 | 67.5° | 12747.2 | 10334.2 | 2717.6 | 941.6 | 938.5 | 952.5 | 1006.9 | 958.7 | 888.8 | 885.7 |
| 13455.8 | 70° | 11480.9 | 8934.3 | 1957.8 | 848.4 | 849.9 | 870.1 | 941.6 | 929.2 | 871.7 | 877.9 |
| 11313.1 | 72.5° | 9206.2 | 6811.8 | 1314.5 | 750.5 | 752.0 | 784.7 | 879.4 | 905.9 | 854.6 | 936.9 |
| 8026.8 | 75° | 6131.2 | 4248.0 | 845.3 | 646.4 | 647.9 | 689.9 | 825.1 | 860.8 | 808.0 | 933.8 |
| 4176.6 | 77.5° | 2946.0 | 1909.6 | 612.2 | 543.8 | 543.8 | 582.7 | 713.2 | 770.7 | 688.3 | 725.6 |
| 1342.5 | 80° | 1017.7 | 717.8 | 481.7 | 438.2 | 428.8 | 455.3 | 601.3 | 668.1 | 593.5 | 546.9 |
| 438.2 | 82.5° | 400.9 | 372.9 | 386.9 | 340.3 | 309.2 | 326.3 | 467.7 | 551.6 | 436.6 | 394.7 |
| 247.1 | 85° | 230.0 | 242.4 | 273.5 | 225.3 | 178.7 | 200.4 | 343.4 | 396.2 | 329.4 | 290.6 |
| 80.8 | 87.5° | 62.2 | 85.5 | 125.9 | 116.5 | 80.8 | 85.5 | 163.1 | 219.1 | 189.6 | 146.1 |
| 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> |
|--------------|
| 3280.0 |
| 3363.9 |
| 3497.6 |
| 3659.2 |
| 3808.3 |
| 3861.2 |
| 3862.7 |
| 3794.3 |
| 3634.3 |
| 3407.4 |
| 3169.7 |
| 2952.2 |
| 2759.5 |
| 2518.7 |
| 2248.3 |
| 1979.5 |
| 1738.7 |
| 1536.7 |
| 1336.3 |
| 1222.8 |
| 1151.4 |
| 1101.6 |
| 1067.4 |
| 1030.2 |
| 966.5 |
| 913.6 |
| 891.9 |
| 890.3 |
| 876.3 |
| 949.4 |
| 941.6 |
| 665.0 |
| 512.7 |
| 393.1 |
| 296.8 |
| 150.7 |
| 0.0 |

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