

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: P953940

Luminaire Tested: **GALN-SB7B-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953940
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-SB7B-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 450mA 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: 29958 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

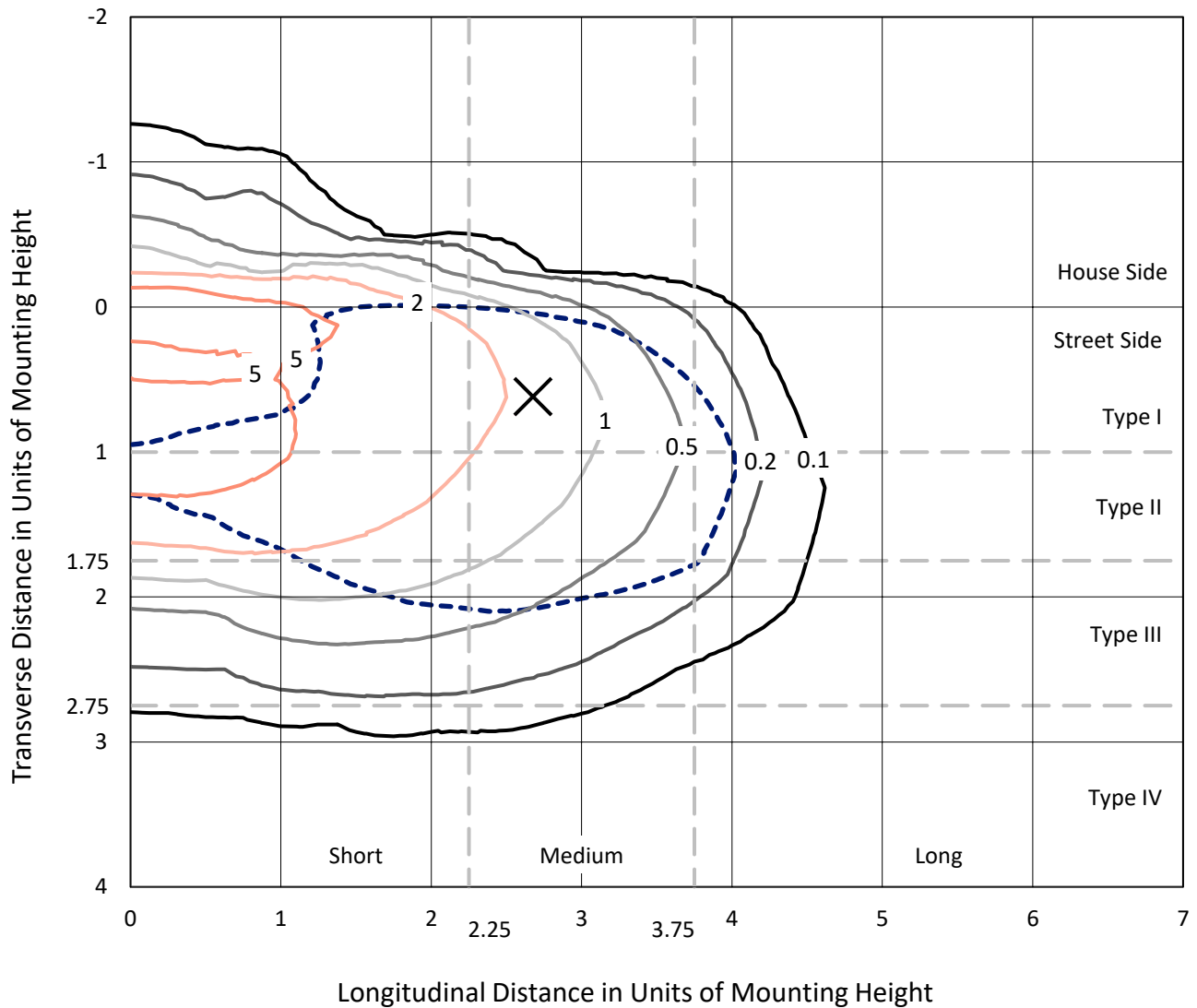
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

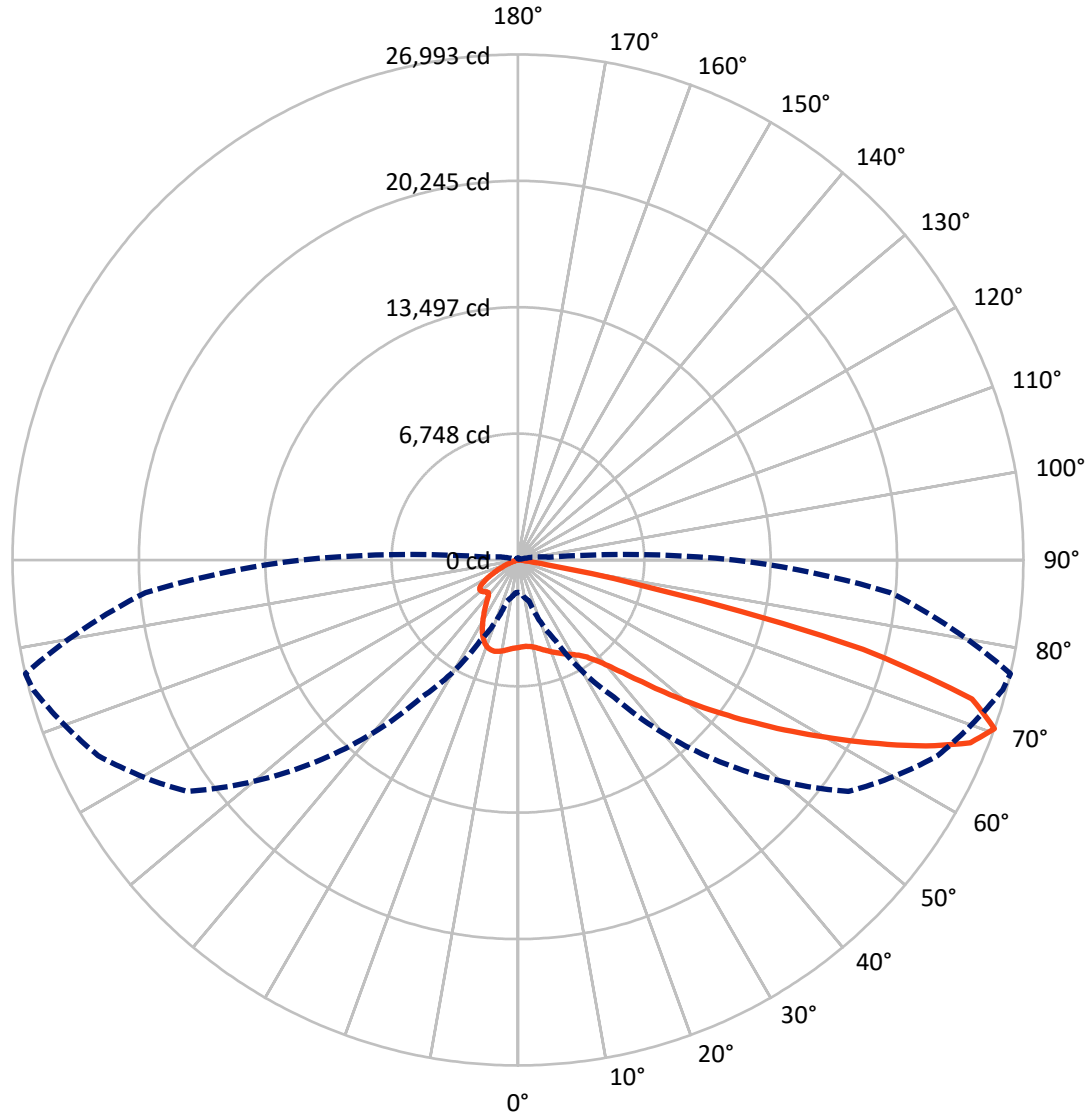
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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 | 3158.0 | 0.0 | 3158.0 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 26800.0 | 0.0 | 26800.0 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 29958.0 | 0.0 | 29958.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 402.7 | 1.3 |
| 10°-20° | 956.0 | 3.2 |
| 20°-30° | 1478.7 | 4.9 |
| 30°-40° | 2683.2 | 9.0 |
| 40°-50° | 5064.9 | 16.9 |
| 50°-60° | 7318.4 | 24.4 |
| 60°-70° | 7790.2 | 26.0 |
| 70°-80° | 4128.3 | 13.8 |
| 80°-90° | 135.6 | 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° | 29958.0 | 100.0 |
| 0°-180° | 29958.0 | 100.0 |

Coefficient of Utilization



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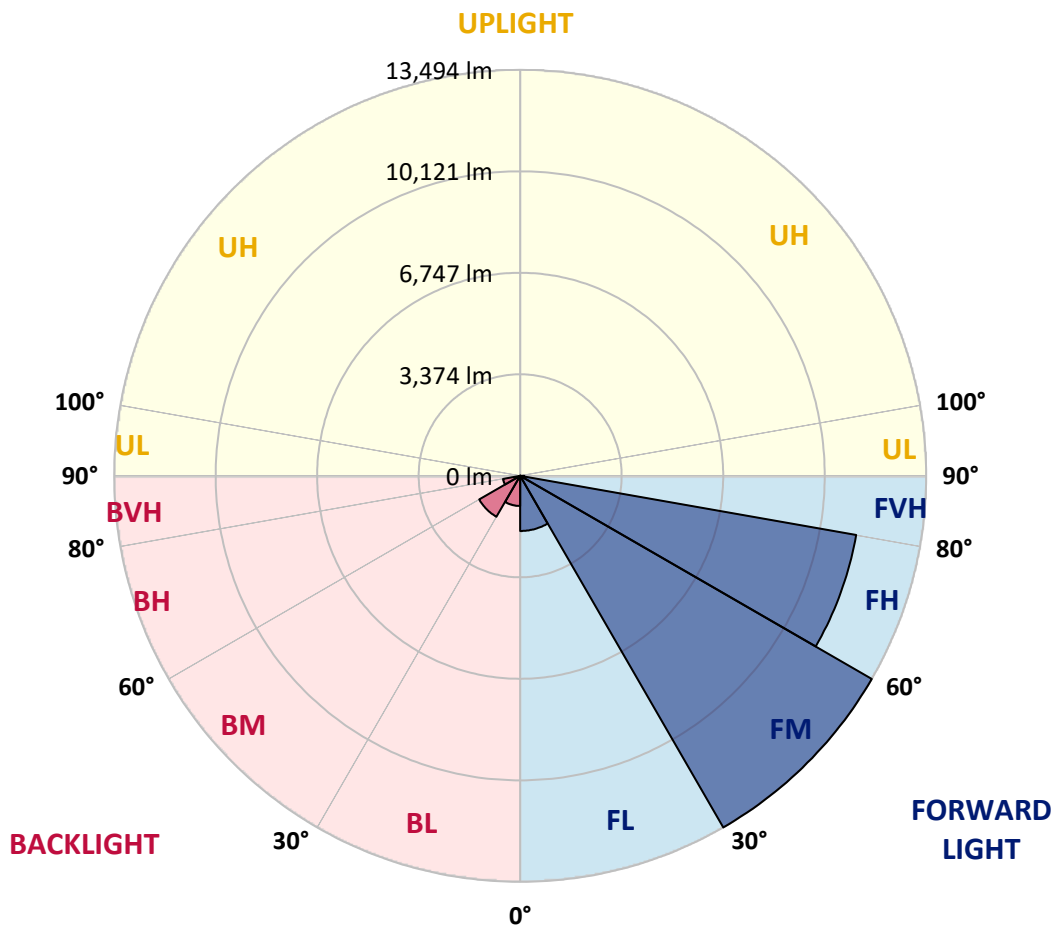
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1834.1 | 6.1 | | | |
| FM (30°-60°) | 13494.4 | 45.0 | | | |
| FH (60°-80°) | 11339.5 | 37.9 | | | G4/12000 |
| FVH (80°-90°) | 131.9 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1003.4 | 3.3 | B3/2500 | | |
| BM (30°-60°) | 1572.1 | 5.2 | B2/2500 | | |
| BH (60°-80°) | 578.9 | 1.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 3.6 | 0.0 | | | G0/10 |
| 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 Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4672.9 | 4672.9 | 4672.9 | 4672.9 | 4672.9 | 4672.9 | 4672.9 | 4672.9 | 4672.9 | 4672.9 |
| 2.5° | 4387.2 | 4427.0 | 4421.3 | 4447.8 | 4457.2 | 4495.1 | 4532.9 | 4584.0 | 4640.7 | 4638.9 |
| 5° | 4139.4 | 4179.1 | 4188.6 | 4224.5 | 4269.9 | 4328.6 | 4406.2 | 4508.3 | 4614.3 | 4631.3 |
| 7.5° | 3846.2 | 3887.8 | 3912.4 | 3984.3 | 4067.5 | 4188.6 | 4315.3 | 4464.8 | 4640.7 | 4665.3 |
| 10° | 3552.9 | 3590.8 | 3622.9 | 3725.1 | 3857.5 | 4037.2 | 4243.5 | 4459.1 | 4695.6 | 4731.6 |
| 12.5° | 3371.3 | 3407.2 | 3443.2 | 3532.1 | 3696.7 | 3916.2 | 4196.2 | 4485.6 | 4786.4 | 4837.5 |
| 15° | 3307.0 | 3339.1 | 3367.5 | 3447.0 | 3600.2 | 3849.9 | 4186.7 | 4540.5 | 4901.8 | 4969.9 |
| 17.5° | 3316.4 | 3333.5 | 3352.4 | 3412.9 | 3562.4 | 3819.7 | 4203.7 | 4635.1 | 5038.0 | 5098.6 |
| 20° | 3371.3 | 3380.8 | 3382.7 | 3424.3 | 3556.7 | 3815.9 | 4237.8 | 4725.9 | 5166.7 | 5248.0 |
| 22.5° | 3441.3 | 3445.1 | 3441.3 | 3469.7 | 3592.7 | 3844.3 | 4283.2 | 4835.6 | 5310.5 | 5386.1 |
| 25° | 3768.6 | 3696.7 | 3605.9 | 3551.0 | 3653.2 | 3899.1 | 4351.3 | 4983.2 | 5467.5 | 5541.3 |
| 27.5° | 4784.5 | 4578.3 | 4252.9 | 3887.8 | 3778.1 | 3978.6 | 4445.9 | 5132.6 | 5626.4 | 5692.6 |
| 30° | 6434.2 | 6163.7 | 5611.3 | 4788.3 | 4179.1 | 4145.1 | 4568.9 | 5282.1 | 5794.8 | 5866.7 |
| 32.5° | 8087.7 | 8021.5 | 7383.9 | 6245.0 | 5081.5 | 4515.9 | 4773.2 | 5484.5 | 6018.0 | 6074.8 |
| 35° | 9760.1 | 9625.8 | 9103.7 | 7978.0 | 6472.1 | 5270.7 | 5113.7 | 5749.4 | 6311.3 | 6375.6 |
| 37.5° | 11040.9 | 10959.6 | 10636.1 | 9709.1 | 8121.8 | 6436.1 | 5696.4 | 6159.9 | 6736.9 | 6808.8 |
| 40° | 12172.3 | 12134.4 | 12024.7 | 11413.6 | 9966.3 | 7961.0 | 6602.6 | 6795.6 | 7327.2 | 7412.3 |
| 42.5° | 13061.4 | 13150.4 | 13212.8 | 13042.5 | 11867.7 | 9701.5 | 7821.0 | 7688.5 | 8150.2 | 8237.2 |
| 45° | 13971.4 | 14001.7 | 14253.3 | 14499.3 | 13755.8 | 11521.5 | 9194.5 | 8734.7 | 9173.7 | 9281.5 |
| 47.5° | 14556.0 | 14677.1 | 15119.8 | 15553.0 | 15343.0 | 13326.3 | 10670.1 | 9970.1 | 10359.9 | 10562.3 |
| 50° | 14599.5 | 14828.4 | 15437.6 | 16192.5 | 16499.0 | 15044.1 | 12274.4 | 11377.7 | 11792.0 | 12015.2 |
| 52.5° | 13874.9 | 14230.6 | 15174.7 | 16279.5 | 17123.3 | 16499.0 | 13933.6 | 12785.2 | 13316.8 | 13608.2 |
| 55° | 10638.0 | 11103.4 | 14185.2 | 15806.5 | 17147.9 | 17601.9 | 15549.2 | 14251.4 | 15015.7 | 15344.9 |
| 57.5° | 9268.2 | 9502.8 | 11152.5 | 14985.5 | 16691.9 | 18046.5 | 17009.8 | 15647.6 | 16864.1 | 17272.7 |
| 60° | 7711.2 | 8019.6 | 9353.4 | 13642.2 | 16073.3 | 18090.0 | 18300.0 | 17448.7 | 18867.6 | 19327.3 |
| 62.5° | 5240.5 | 5575.3 | 6901.5 | 11334.2 | 15227.6 | 18069.2 | 19357.6 | 19302.7 | 21094.3 | 21588.1 |
| 65° | 3246.4 | 3456.4 | 4330.5 | 9255.0 | 14045.2 | 18091.9 | 20464.3 | 21554.0 | 23444.0 | 23945.3 |
| 67.5° | 2565.4 | 2661.9 | 3117.8 | 7105.8 | 12007.7 | 17581.1 | 21569.2 | 23671.0 | 25655.6 | 26052.9 |
| 70° | 1723.5 | 1782.1 | 2268.3 | 4763.7 | 8933.4 | 15223.8 | 21548.3 | 24734.2 | 26794.5 | 26993.1 |
| 72.5° | 908.1 | 953.5 | 1326.2 | 2205.9 | 5395.6 | 10821.5 | 18163.8 | 23462.9 | 25661.3 | 25362.3 |
| 75° | 454.0 | 529.7 | 893.0 | 1120.0 | 2304.3 | 6035.0 | 11279.3 | 18498.7 | 20197.6 | 19039.7 |
| 77.5° | 344.3 | 416.2 | 737.8 | 737.8 | 802.2 | 2031.9 | 4777.0 | 10089.3 | 9306.1 | 7749.1 |
| 80° | 219.5 | 283.8 | 645.1 | 558.1 | 334.9 | 516.5 | 1244.8 | 2826.4 | 1977.0 | 1504.0 |
| 82.5° | 128.6 | 185.4 | 537.3 | 368.9 | 187.3 | 191.1 | 351.9 | 601.6 | 512.7 | 399.2 |
| 85° | 51.1 | 121.1 | 368.9 | 145.7 | 73.8 | 47.3 | 105.9 | 128.6 | 105.9 | 79.5 |
| 87.5° | 0.0 | 28.4 | 64.3 | 0.0 | 5.7 | 3.8 | 7.6 | 9.5 | 9.5 | 7.6 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4672.9 | 0° | 4672.9 | 4672.9 | 4672.9 | 4672.9 | 4672.9 | 4672.9 | 4672.9 | 4672.9 | 4672.9 | 4672.9 |
| 4676.7 | 2.5° | 4693.7 | 4697.5 | 4708.9 | 4710.7 | 4684.3 | 4650.2 | 4637.0 | 4631.3 | 4608.6 | 4606.7 |
| 4707.0 | 5° | 4750.5 | 4767.5 | 4750.5 | 4701.3 | 4584.0 | 4419.4 | 4294.5 | 4192.4 | 4099.7 | 4071.3 |
| 4811.0 | 7.5° | 4864.0 | 4881.0 | 4829.9 | 4637.0 | 4341.8 | 4014.5 | 3719.4 | 3511.3 | 3324.0 | 3254.0 |
| 4937.8 | 10° | 5026.7 | 5049.4 | 4888.6 | 4498.9 | 3976.7 | 3450.8 | 2951.3 | 2599.4 | 2325.1 | 2213.5 |
| 5109.9 | 12.5° | 5231.0 | 5240.5 | 4920.7 | 4288.9 | 3501.8 | 2750.8 | 2043.2 | 1666.7 | 1422.7 | 1331.9 |
| 5318.0 | 15° | 5456.1 | 5442.9 | 4924.5 | 4003.2 | 2854.8 | 1944.8 | 1333.8 | 1095.4 | 997.0 | 966.7 |
| 5526.1 | 17.5° | 5692.6 | 5637.8 | 4848.9 | 3590.8 | 2145.4 | 1330.0 | 989.4 | 932.7 | 915.7 | 908.1 |
| 5732.4 | 20° | 5925.3 | 5802.4 | 4710.7 | 3051.6 | 1540.0 | 993.2 | 898.6 | 881.6 | 872.1 | 868.4 |
| 5940.5 | 22.5° | 6137.2 | 5927.2 | 4474.3 | 2425.4 | 1118.1 | 877.8 | 849.4 | 834.3 | 817.3 | 809.7 |
| 6142.9 | 25° | 6343.4 | 5999.1 | 4141.3 | 1840.8 | 894.9 | 821.1 | 798.4 | 770.0 | 747.3 | 737.8 |
| 6360.5 | 27.5° | 6544.0 | 6044.5 | 3725.1 | 1362.1 | 798.4 | 768.1 | 726.5 | 686.7 | 669.7 | 665.9 |
| 6593.2 | 30° | 6757.7 | 6059.6 | 3252.1 | 1015.9 | 739.7 | 701.9 | 641.3 | 595.9 | 586.5 | 588.4 |
| 6907.2 | 32.5° | 7018.8 | 6082.3 | 2775.4 | 832.4 | 690.5 | 622.4 | 550.5 | 503.2 | 495.7 | 503.2 |
| 7365.0 | 35° | 7331.0 | 6127.8 | 2315.6 | 766.2 | 647.0 | 541.1 | 463.5 | 423.8 | 416.2 | 421.9 |
| 7951.5 | 37.5° | 7754.8 | 6201.5 | 1886.2 | 753.0 | 611.1 | 473.0 | 389.7 | 357.6 | 357.6 | 359.5 |
| 8670.4 | 40° | 8318.5 | 6398.3 | 1502.1 | 743.5 | 592.2 | 421.9 | 329.2 | 315.9 | 321.6 | 325.4 |
| 9586.1 | 42.5° | 9005.3 | 6816.4 | 1243.0 | 732.2 | 571.3 | 399.2 | 298.9 | 293.2 | 302.7 | 306.5 |
| 10683.4 | 45° | 9775.3 | 7346.1 | 1152.1 | 713.2 | 552.4 | 414.3 | 285.7 | 278.1 | 289.5 | 291.3 |
| 11913.1 | 47.5° | 10571.7 | 7864.5 | 1140.8 | 692.4 | 533.5 | 437.0 | 281.9 | 264.9 | 278.1 | 280.0 |
| 13226.0 | 50° | 11377.7 | 8203.1 | 1152.1 | 660.3 | 503.2 | 437.0 | 283.8 | 251.6 | 263.0 | 268.6 |
| 14588.2 | 52.5° | 12189.3 | 8358.3 | 1144.6 | 590.3 | 450.3 | 410.5 | 283.8 | 240.3 | 251.6 | 255.4 |
| 16060.0 | 55° | 12976.3 | 8328.0 | 1029.2 | 486.2 | 382.2 | 363.2 | 276.2 | 230.8 | 238.4 | 240.3 |
| 17450.6 | 57.5° | 13598.7 | 7906.1 | 815.4 | 378.4 | 310.3 | 302.7 | 251.6 | 219.5 | 225.1 | 223.2 |
| 18725.7 | 60° | 13924.1 | 6979.1 | 582.7 | 291.3 | 244.1 | 238.4 | 221.3 | 204.3 | 208.1 | 198.6 |
| 19805.9 | 62.5° | 13927.9 | 5753.2 | 389.7 | 230.8 | 194.9 | 189.2 | 189.2 | 183.5 | 179.7 | 160.8 |
| 20642.1 | 65° | 13630.9 | 4392.9 | 259.2 | 183.5 | 157.0 | 147.6 | 158.9 | 157.0 | 143.8 | 117.3 |
| 20897.5 | 67.5° | 12957.4 | 2879.4 | 196.8 | 143.8 | 121.1 | 115.4 | 126.8 | 132.4 | 123.0 | 98.4 |
| 19966.7 | 70° | 11572.5 | 1676.2 | 162.7 | 111.6 | 90.8 | 85.1 | 102.2 | 113.5 | 102.2 | 79.5 |
| 17066.5 | 72.5° | 9612.6 | 904.3 | 132.4 | 83.2 | 62.4 | 56.8 | 81.4 | 92.7 | 81.4 | 58.6 |
| 10950.1 | 75° | 6237.5 | 484.3 | 102.2 | 54.9 | 32.2 | 35.9 | 60.5 | 68.1 | 56.8 | 37.8 |
| 3214.3 | 77.5° | 2094.3 | 213.8 | 64.3 | 26.5 | 15.1 | 15.1 | 35.9 | 41.6 | 26.5 | 13.2 |
| 584.6 | 80° | 467.3 | 88.9 | 26.5 | 11.4 | 5.7 | 5.7 | 7.6 | 7.6 | 3.8 | 0.0 |
| 179.7 | 82.5° | 153.2 | 35.9 | 11.4 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45.4 | 85° | 58.6 | 13.2 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15.1 | 87.5° | 22.7 | 1.9 | 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 |

(END O

| <u>180°</u> |
|-------------|
| 4672.9 |
| 4610.5 |
| 4054.3 |
| 3225.6 |
| 2166.2 |
| 1303.5 |
| 966.7 |
| 906.2 |
| 864.6 |
| 807.8 |
| 734.0 |
| 662.2 |
| 588.4 |
| 501.3 |
| 420.0 |
| 357.6 |
| 325.4 |
| 306.5 |
| 293.2 |
| 281.9 |
| 270.5 |
| 255.4 |
| 240.3 |
| 223.2 |
| 196.8 |
| 155.1 |
| 113.5 |
| 96.5 |
| 75.7 |
| 56.8 |
| 34.1 |
| 11.4 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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