

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: P954550

Luminaire Tested: **GALN-SB7D-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-735-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 74293 lumens
Efficiency: N/A
Efficacy: 144.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

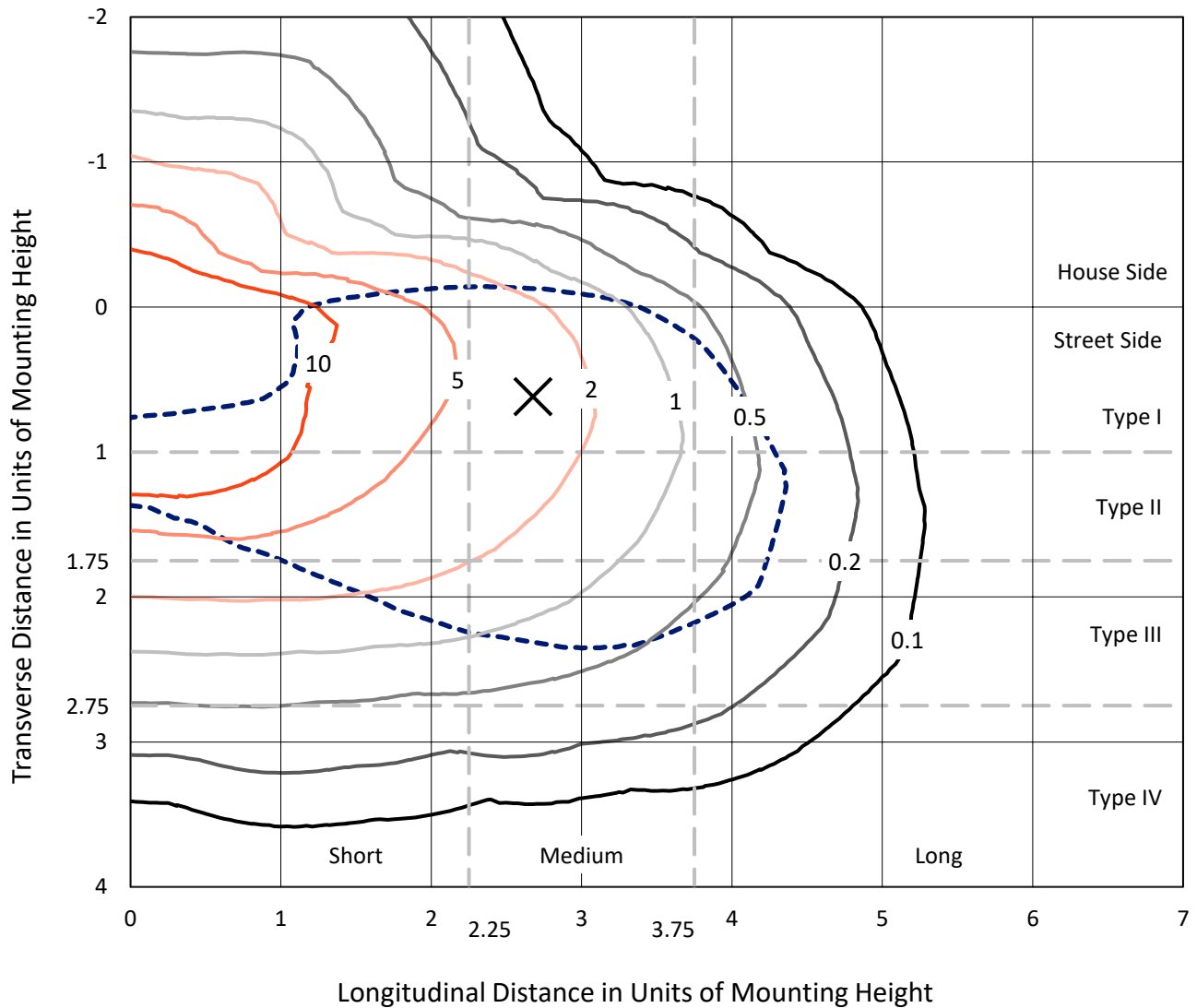
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

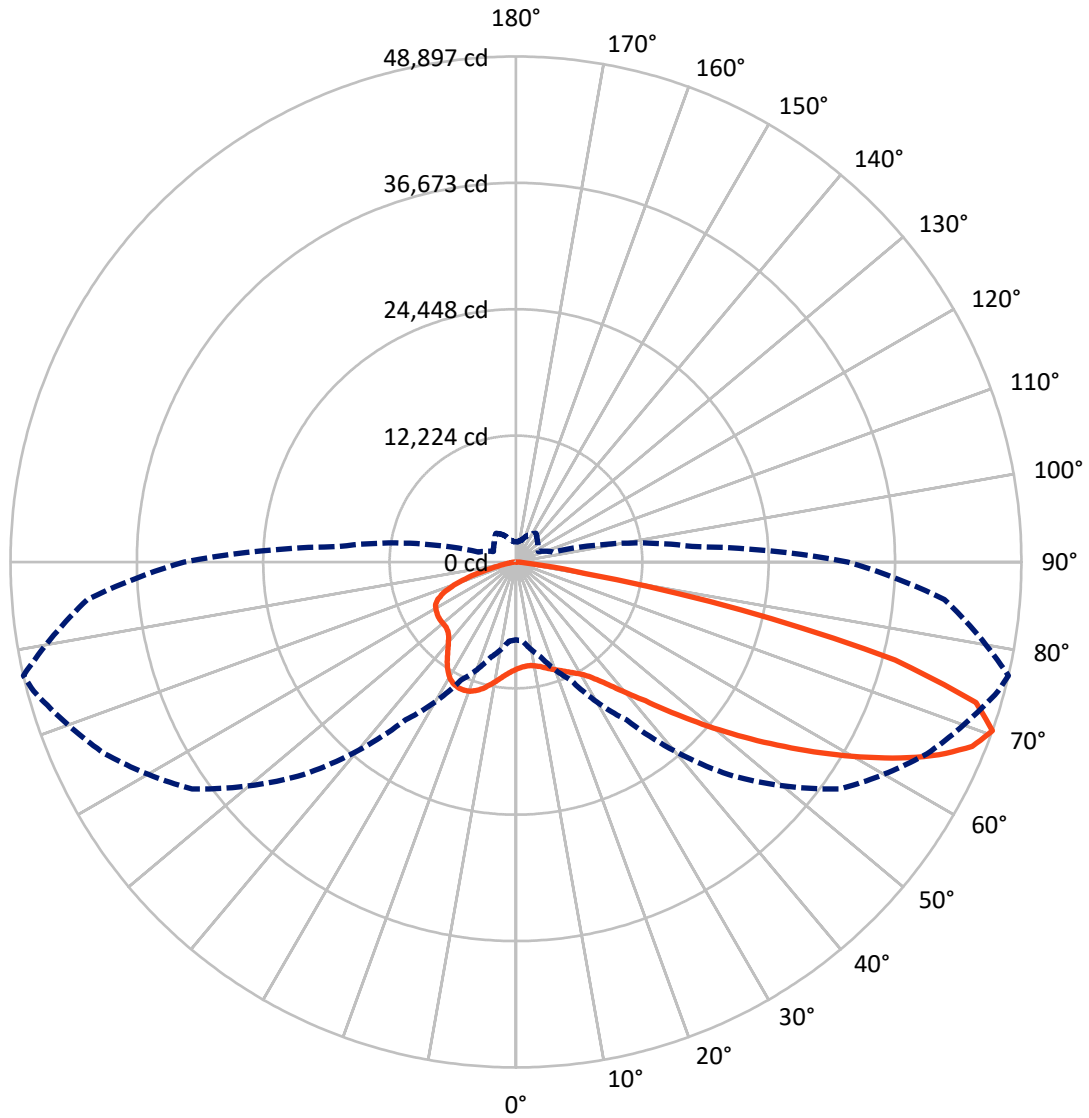
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 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 | 16269.0 | 0.0 | 16269.0 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 58024.0 | 0.0 | 58024.0 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 74293.0 | 0.0 | 74293.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 988.5 | 1.3 |
| 10°-20° | 2852.9 | 3.8 |
| 20°-30° | 4878.9 | 6.6 |
| 30°-40° | 7845.7 | 10.6 |
| 40°-50° | 12249.2 | 16.5 |
| 50°-60° | 16362.0 | 22.0 |
| 60°-70° | 17439.4 | 23.5 |
| 70°-80° | 10735.6 | 14.5 |
| 80°-90° | 940.7 | 1.3 |
| 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° | 74293.0 | 100.0 |
| 0°-180° | 74293.0 | 100.0 |



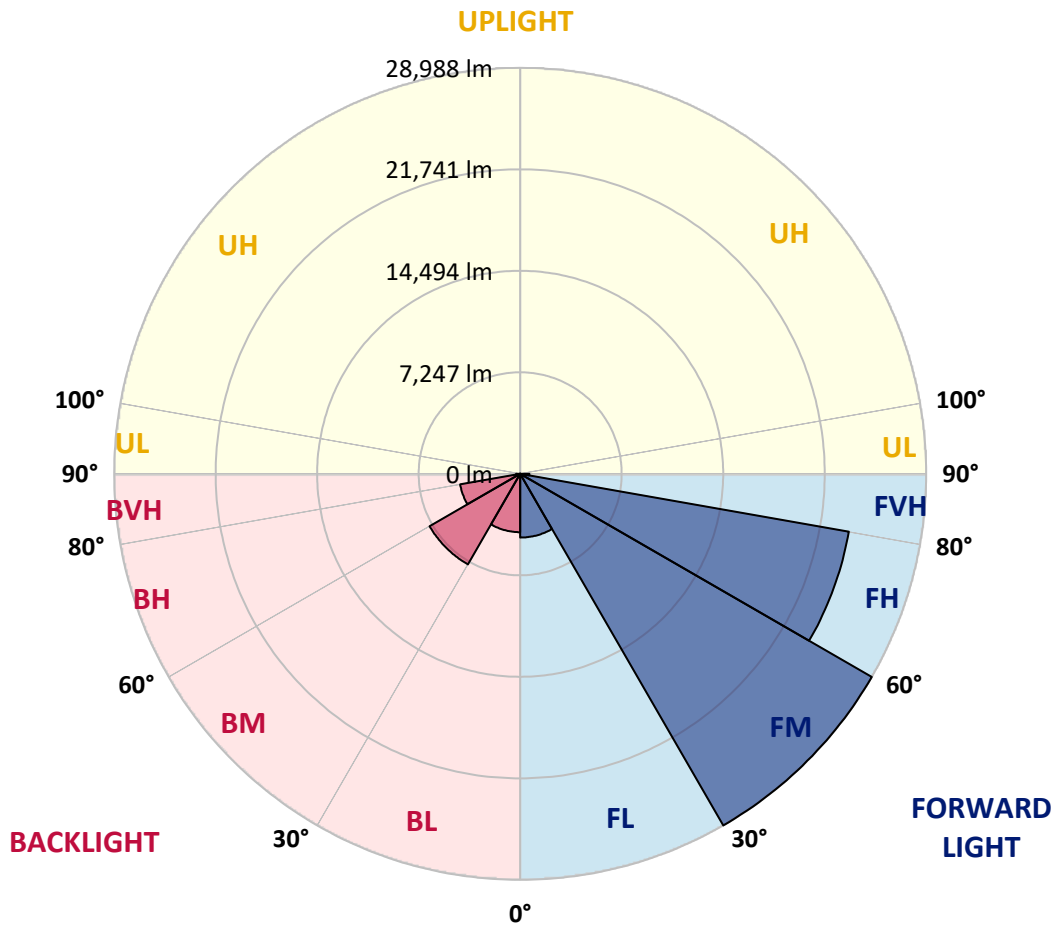
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4551.6 | 6.1 | | | |
| FM (30°-60°) | 28987.5 | 39.0 | | | |
| FH (60°-80°) | 23827.0 | 32.1 | | | G5 |
| FVH (80°-90°) | 657.8 | 0.9 | | | G4/750 |
| BL (0°-30°) | 4168.6 | 5.6 | B4/5000 | | |
| BM (30°-60°) | 7469.5 | 10.1 | B4/8500 | | |
| BH (60°-80°) | 4348.0 | 5.9 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 282.9 | 0.4 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10364.6 | 10364.6 | 10364.6 | 10364.6 | 10364.6 | 10364.6 | 10364.6 | 10364.6 | 10364.6 | 10364.6 | 10364.6 |
| 2.5° | 9554.1 | 9550.3 | 9599.8 | 9615.0 | 9706.3 | 9771.0 | 9892.7 | 10022.1 | 10189.5 | 10208.6 | |
| 5° | 9002.4 | 9002.4 | 9059.5 | 9120.3 | 9238.3 | 9367.7 | 9554.1 | 9778.6 | 10067.8 | 10113.4 | |
| 7.5° | 8534.4 | 8564.8 | 8614.3 | 8732.2 | 8869.2 | 9055.7 | 9341.0 | 9660.6 | 10041.1 | 10113.4 | |
| 10° | 8157.7 | 8192.0 | 8252.8 | 8348.0 | 8553.4 | 8812.2 | 9185.0 | 9596.0 | 10105.8 | 10220.0 | |
| 12.5° | 8039.8 | 8074.0 | 8108.2 | 8180.5 | 8370.8 | 8675.2 | 9120.3 | 9626.4 | 10261.8 | 10376.0 | |
| 15° | 8313.7 | 8355.6 | 8328.9 | 8309.9 | 8408.8 | 8686.6 | 9150.8 | 9736.7 | 10455.9 | 10619.5 | |
| 17.5° | 8945.3 | 8960.5 | 8899.7 | 8720.8 | 8705.6 | 8854.0 | 9295.4 | 9888.9 | 10699.4 | 10878.2 | |
| 20° | 9965.0 | 9938.4 | 9812.8 | 9459.0 | 9257.3 | 9226.9 | 9542.7 | 10117.2 | 10950.5 | 11140.8 | |
| 22.5° | 11350.0 | 11319.6 | 11068.5 | 10509.1 | 10060.2 | 9763.4 | 9900.4 | 10414.0 | 11232.1 | 11445.1 | |
| 25° | 13077.4 | 13035.6 | 12666.5 | 11905.5 | 11209.2 | 10474.9 | 10387.4 | 10805.9 | 11578.3 | 11776.2 | |
| 27.5° | 15094.0 | 15059.8 | 14660.3 | 13655.8 | 12651.3 | 11448.9 | 10992.4 | 11266.3 | 11939.8 | 12164.3 | |
| 30° | 17262.8 | 17361.8 | 16654.1 | 15573.5 | 14302.6 | 12719.8 | 11806.6 | 11833.2 | 12407.8 | 12609.4 | |
| 32.5° | 19812.1 | 19983.3 | 19131.0 | 17761.3 | 16026.2 | 14101.0 | 12833.9 | 12624.7 | 13088.9 | 13256.3 | |
| 35° | 22338.6 | 22532.6 | 21824.9 | 20310.6 | 18313.0 | 15729.5 | 13906.9 | 13534.0 | 13994.4 | 14177.1 | |
| 37.5° | 24522.6 | 24781.3 | 24416.1 | 23099.6 | 20759.5 | 17692.8 | 15307.1 | 14603.2 | 15109.3 | 15337.6 | |
| 40° | 26246.2 | 26641.9 | 26615.3 | 25793.4 | 23643.7 | 20074.7 | 17084.0 | 15923.5 | 16494.2 | 16741.6 | |
| 42.5° | 27646.4 | 27988.9 | 28285.6 | 28243.8 | 26653.3 | 22779.9 | 19172.9 | 17639.5 | 18073.3 | 18358.6 | |
| 45° | 28612.9 | 28978.1 | 29617.4 | 30306.0 | 29548.9 | 25675.5 | 21566.2 | 19675.1 | 20070.9 | 20500.8 | |
| 47.5° | 29476.6 | 29891.3 | 30720.8 | 31812.8 | 32006.8 | 28582.4 | 24187.8 | 22045.6 | 22407.1 | 22852.2 | |
| 50° | 29552.7 | 29910.3 | 31196.4 | 32745.0 | 33753.3 | 31375.2 | 27003.4 | 24705.2 | 25043.9 | 25519.5 | |
| 52.5° | 27714.9 | 28278.0 | 30522.9 | 32718.3 | 34556.1 | 33711.4 | 29800.0 | 27471.4 | 27851.9 | 28422.6 | |
| 55° | 21512.9 | 22338.6 | 28548.2 | 31698.6 | 34270.7 | 35222.0 | 32459.6 | 30412.6 | 30899.6 | 31497.0 | |
| 57.5° | 18529.9 | 18891.3 | 22662.0 | 29841.8 | 32969.5 | 35613.9 | 34704.5 | 33384.2 | 34168.0 | 34822.5 | |
| 60° | 16654.1 | 16954.6 | 19184.3 | 26953.9 | 31257.3 | 34993.7 | 36439.5 | 36154.2 | 37508.7 | 38288.7 | |
| 62.5° | 14645.1 | 14930.4 | 16958.4 | 22506.0 | 29065.6 | 33962.5 | 37535.4 | 38711.1 | 40933.1 | 41785.4 | |
| 65° | 12651.3 | 12894.8 | 14839.1 | 18910.4 | 26280.5 | 32931.4 | 38102.3 | 40921.7 | 44102.6 | 44985.3 | |
| 67.5° | 10429.2 | 10630.9 | 12468.7 | 15954.0 | 22894.1 | 31519.8 | 38383.8 | 42660.6 | 46861.2 | 47618.3 | |
| 70° | 7526.1 | 7682.1 | 9580.7 | 12617.1 | 18644.0 | 29092.3 | 38269.7 | 43893.3 | 48291.8 | 48896.8 | |
| 72.5° | 3557.6 | 3698.4 | 5928.0 | 8192.0 | 13168.8 | 24366.6 | 35960.1 | 42915.5 | 46838.3 | 46537.7 | |
| 75° | 1898.6 | 2020.4 | 3405.4 | 4493.6 | 6955.4 | 16703.5 | 29427.1 | 36968.4 | 39331.3 | 37870.2 | |
| 77.5° | 1286.1 | 1381.2 | 2107.9 | 2697.7 | 3177.1 | 7929.4 | 18914.2 | 25595.6 | 24625.3 | 22213.0 | |
| 80° | 1019.7 | 1118.6 | 1727.4 | 1826.4 | 1537.2 | 2865.1 | 7815.3 | 11848.5 | 8511.6 | 6807.0 | |
| 82.5° | 783.8 | 894.2 | 1453.5 | 1324.1 | 837.1 | 1175.7 | 2275.3 | 3747.8 | 2180.2 | 1658.9 | |
| 85° | 479.4 | 597.4 | 1141.5 | 844.7 | 471.8 | 536.5 | 772.4 | 1042.5 | 665.9 | 555.5 | |
| 87.5° | 243.5 | 342.4 | 578.3 | 308.2 | 213.1 | 125.6 | 205.5 | 205.5 | 175.0 | 152.2 | |
| 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-SB7D-735-U-T3R

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 10364.6 | 0° | 10364.6 | 10364.6 | 10364.6 | 10364.6 | 10364.6 | 10364.6 | 10364.6 | 10364.6 | 10364.6 | 10364.6 |
| 10311.3 | 2.5° | 10402.6 | 10478.7 | 10608.1 | 10729.8 | 10824.9 | 10916.3 | 11007.6 | 11057.0 | 11072.3 | 11133.1 |
| 10368.4 | 5° | 10524.4 | 10665.1 | 10916.3 | 11152.2 | 11300.6 | 11391.9 | 11456.6 | 11494.6 | 11502.2 | 11521.2 |
| 10524.4 | 7.5° | 10748.8 | 10973.3 | 11323.4 | 11559.3 | 11669.6 | 11662.0 | 11635.4 | 11540.3 | 11502.2 | 11468.0 |
| 10752.7 | 10° | 11064.7 | 11361.4 | 11791.4 | 11955.0 | 11886.5 | 11703.9 | 11468.0 | 11190.2 | 11060.8 | 10935.3 |
| 11064.7 | 12.5° | 11456.6 | 11833.2 | 12255.6 | 12248.0 | 11909.3 | 11441.3 | 10893.4 | 10467.3 | 10197.1 | 10003.1 |
| 11448.9 | 15° | 11932.2 | 12365.9 | 12689.3 | 12430.6 | 11688.7 | 10847.8 | 10044.9 | 9489.4 | 9245.9 | 9032.8 |
| 11837.0 | 17.5° | 12423.0 | 12887.2 | 13035.6 | 12373.5 | 11133.1 | 9968.8 | 9059.5 | 8621.9 | 8382.2 | 8268.1 |
| 12255.6 | 20° | 12902.4 | 13362.8 | 13241.1 | 12046.3 | 10288.5 | 8972.0 | 8161.5 | 7921.8 | 7872.3 | 7899.0 |
| 12662.7 | 22.5° | 13408.5 | 13819.4 | 13282.9 | 11414.7 | 9211.7 | 7952.2 | 7507.1 | 7514.7 | 7625.0 | 7704.9 |
| 13088.9 | 25° | 13925.9 | 14203.7 | 13172.6 | 10501.5 | 8055.0 | 7202.7 | 7092.3 | 7214.1 | 7431.0 | 7587.0 |
| 13568.3 | 27.5° | 14424.4 | 14546.1 | 12932.9 | 9371.5 | 7061.9 | 6666.2 | 6685.2 | 6936.3 | 7263.6 | 7480.4 |
| 14150.4 | 30° | 14987.5 | 14850.5 | 12472.5 | 8100.6 | 6373.2 | 6205.8 | 6365.6 | 6658.6 | 6985.8 | 7179.8 |
| 14884.8 | 32.5° | 15622.9 | 15113.1 | 11741.9 | 6924.9 | 5886.2 | 5836.7 | 6099.3 | 6289.5 | 6434.1 | 6491.2 |
| 15858.8 | 35° | 16414.3 | 15482.1 | 10805.9 | 6099.3 | 5448.6 | 5566.6 | 5817.7 | 5722.6 | 5665.5 | 5635.1 |
| 17167.7 | 37.5° | 17441.7 | 15980.6 | 9710.1 | 5562.8 | 5094.8 | 5372.5 | 5475.3 | 5178.5 | 4954.0 | 4843.6 |
| 18754.4 | 40° | 18678.3 | 16711.1 | 8656.2 | 5148.0 | 4870.3 | 5205.1 | 5026.3 | 4668.6 | 4383.2 | 4227.2 |
| 20538.9 | 42.5° | 20051.8 | 17475.9 | 7769.6 | 4836.0 | 4744.7 | 5068.1 | 4695.2 | 4269.1 | 3808.7 | 3759.2 |
| 22665.8 | 45° | 21493.9 | 18263.5 | 7164.6 | 4596.3 | 4683.8 | 4950.2 | 4505.0 | 3816.3 | 3489.1 | 3690.8 |
| 24800.3 | 47.5° | 22935.9 | 18986.5 | 6799.4 | 4417.5 | 4653.4 | 4817.0 | 4337.6 | 3565.2 | 3333.1 | 3626.1 |
| 27087.1 | 50° | 24541.6 | 19633.3 | 6635.7 | 4288.1 | 4619.2 | 4763.7 | 4086.5 | 3500.5 | 3169.5 | 3363.5 |
| 29453.7 | 52.5° | 26135.9 | 20135.5 | 6514.0 | 4158.8 | 4569.7 | 4721.9 | 3964.7 | 3424.4 | 2971.6 | 2983.0 |
| 31835.6 | 55° | 27726.3 | 20462.8 | 6380.8 | 3987.5 | 4459.3 | 4630.6 | 3953.3 | 3340.7 | 2823.2 | 2770.0 |
| 34354.5 | 57.5° | 29423.3 | 20649.2 | 6217.2 | 3797.3 | 4269.1 | 4398.5 | 3941.9 | 3276.0 | 2777.6 | 2690.1 |
| 36930.4 | 60° | 31150.7 | 20923.2 | 6004.1 | 3565.2 | 4014.2 | 4120.7 | 3915.2 | 3253.2 | 2750.9 | 2602.6 |
| 39357.9 | 62.5° | 32699.3 | 21018.3 | 5749.2 | 3344.5 | 3686.9 | 3846.8 | 3858.2 | 3234.2 | 2678.7 | 2423.7 |
| 41374.5 | 65° | 33715.2 | 20607.3 | 5304.0 | 3093.4 | 3333.1 | 3565.2 | 3747.8 | 3169.5 | 2549.3 | 2294.4 |
| 42371.4 | 67.5° | 33673.4 | 19435.4 | 4607.7 | 2770.0 | 2990.7 | 3253.2 | 3588.0 | 3059.1 | 2393.3 | 2134.5 |
| 41618.0 | 70° | 32105.8 | 17122.1 | 3725.0 | 2393.3 | 2614.0 | 2918.4 | 3382.6 | 2895.5 | 2206.8 | 1959.5 |
| 37006.5 | 72.5° | 27536.1 | 13400.9 | 2705.3 | 1951.9 | 2176.4 | 2572.1 | 3116.2 | 2697.7 | 2016.6 | 1803.5 |
| 27349.6 | 75° | 19671.3 | 8481.1 | 1834.0 | 1499.1 | 1693.2 | 2180.2 | 2785.2 | 2465.6 | 1841.6 | 1811.1 |
| 13697.6 | 77.5° | 10048.7 | 4052.2 | 1213.8 | 1095.8 | 1179.5 | 1719.8 | 2340.0 | 2203.0 | 1868.2 | 1495.3 |
| 3896.2 | 80° | 3268.4 | 1495.3 | 764.8 | 745.8 | 783.8 | 1145.3 | 1811.1 | 1807.3 | 1415.4 | 1015.9 |
| 943.6 | 82.5° | 1042.5 | 643.0 | 498.4 | 479.4 | 460.4 | 719.1 | 1263.2 | 1430.6 | 955.0 | 643.0 |
| 338.6 | 85° | 414.7 | 384.3 | 293.0 | 270.1 | 194.0 | 338.6 | 662.1 | 951.2 | 711.5 | 464.2 |
| 87.5 | 87.5° | 152.2 | 152.2 | 79.9 | 57.1 | 41.9 | 114.1 | 178.8 | 285.4 | 407.1 | 239.7 |
| 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> |
|-------------|
| 10364.6 |
| 11167.4 |
| 11551.7 |
| 11475.6 |
| 10897.2 |
| 9957.4 |
| 9010.0 |
| 8302.3 |
| 7887.6 |
| 7723.9 |
| 7628.8 |
| 7533.7 |
| 7225.5 |
| 6521.6 |
| 5665.5 |
| 4870.3 |
| 4238.7 |
| 3808.7 |
| 3797.3 |
| 3763.0 |
| 3508.1 |
| 3062.9 |
| 2808.0 |
| 2701.5 |
| 2614.0 |
| 2423.7 |
| 2294.4 |
| 2146.0 |
| 1982.4 |
| 1792.1 |
| 1708.4 |
| 1331.7 |
| 898.0 |
| 639.2 |
| 475.6 |
| 235.9 |
| 0.0 |

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