

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: P948880

Luminaire Tested: **GALN-SB3D-750-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948880
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-SB3D-750-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33161 lumens
Efficiency: N/A
Efficacy: 152.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

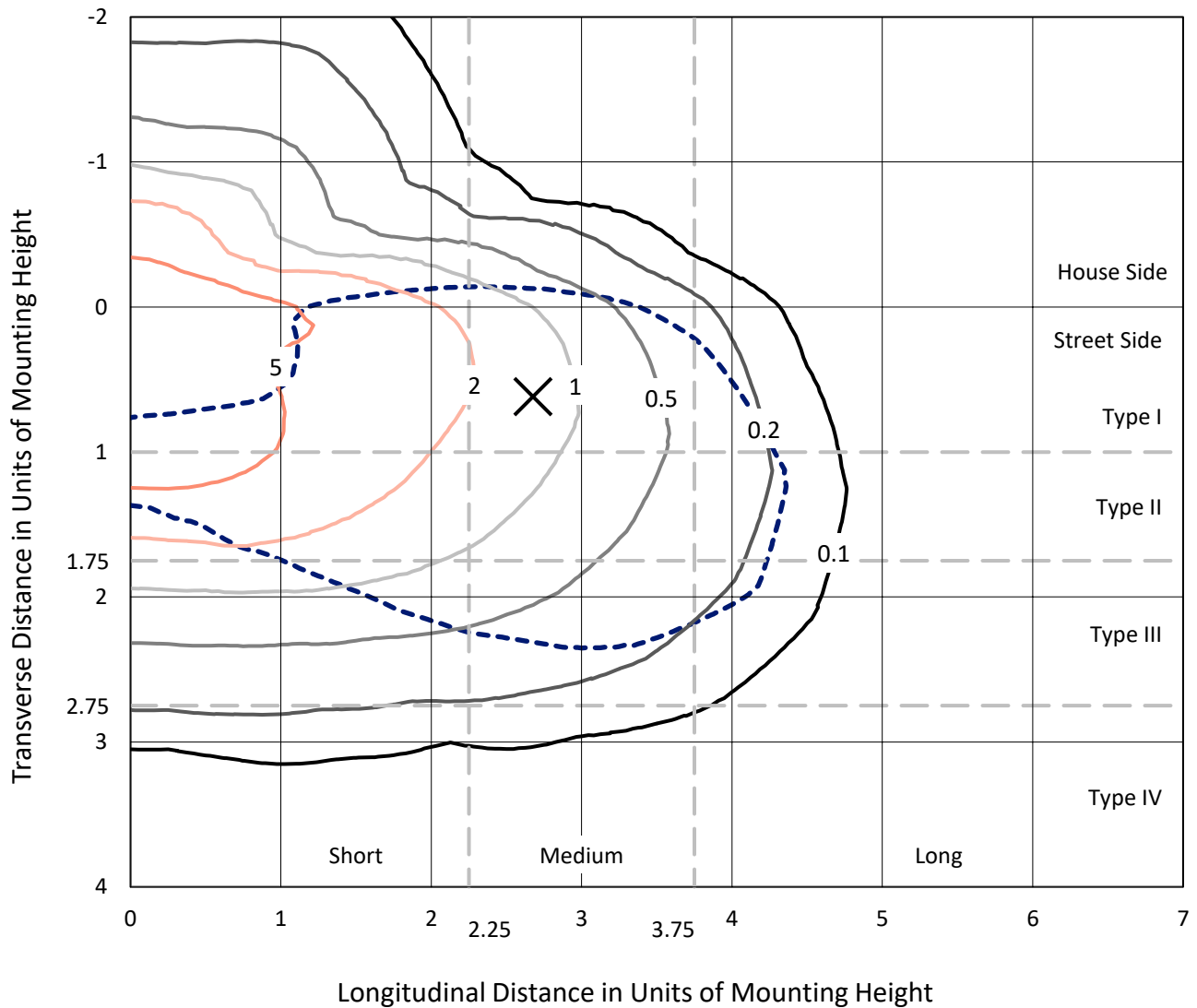
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

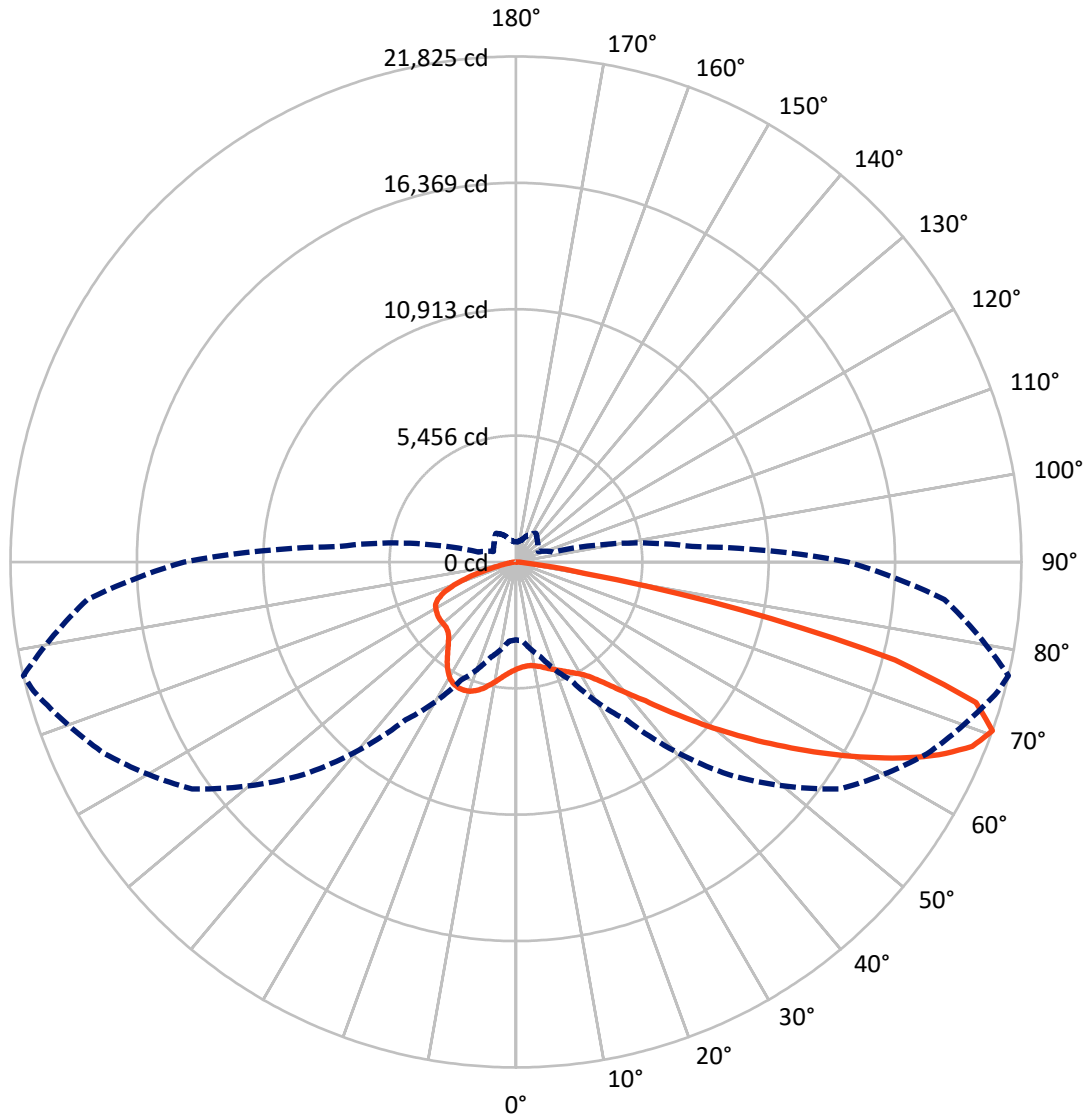
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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 | 7261.7 | 0.0 | 7261.7 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 25899.3 | 0.0 | 25899.3 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 33161.0 | 0.0 | 33161.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 441.2 | 1.3 |
| 10°-20° | 1273.4 | 3.8 |
| 20°-30° | 2177.7 | 6.6 |
| 30°-40° | 3502.0 | 10.6 |
| 40°-50° | 5467.5 | 16.5 |
| 50°-60° | 7303.3 | 22.0 |
| 60°-70° | 7784.2 | 23.5 |
| 70°-80° | 4791.9 | 14.5 |
| 80°-90° | 419.9 | 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° | 33161.0 | 100.0 |
| 0°-180° | 33161.0 | 100.0 |

Coefficient of Utilization



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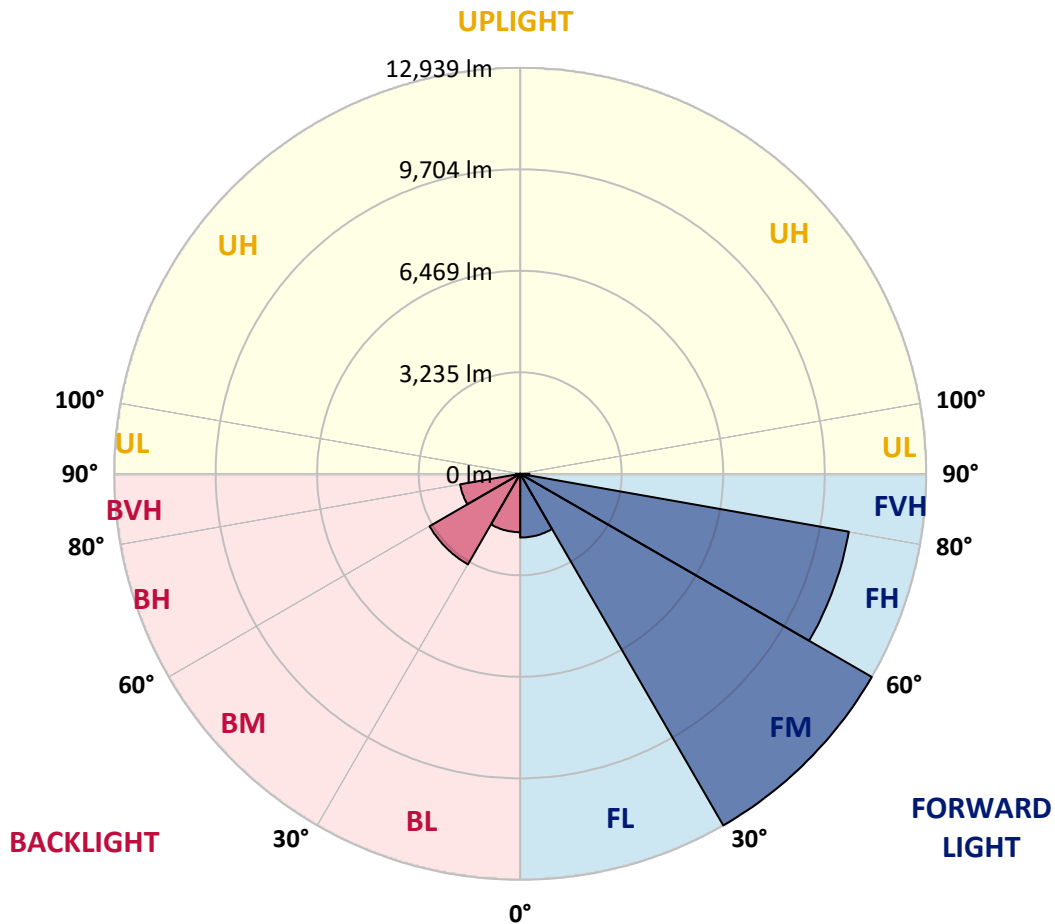
CATALOG NUMBER: GALN-SB3D-750-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2031.6 | 6.1 | | | |
| FM (30°-60°) | 12938.7 | 39.0 | | | |
| FH (60°-80°) | 10635.3 | 32.1 | | | G4/12000 |
| FVH (80°-90°) | 293.6 | 0.9 | | | G3/500 |
| BL (0°-30°) | 1860.7 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 3334.0 | 10.1 | B3/5000 | | |
| BH (60°-80°) | 1940.7 | 5.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 126.3 | 0.4 | | | 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 Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4626.3 | 4626.3 | 4626.3 | 4626.3 | 4626.3 | 4626.3 | 4626.3 | 4626.3 | 4626.3 | 4626.3 |
| 2.5° | 4264.5 | 4262.8 | 4284.9 | 4291.7 | 4332.5 | 4361.3 | 4415.7 | 4473.4 | 4548.1 | 4556.6 |
| 5° | 4018.3 | 4018.3 | 4043.7 | 4070.9 | 4123.6 | 4181.3 | 4264.5 | 4364.7 | 4493.8 | 4514.2 |
| 7.5° | 3809.4 | 3822.9 | 3845.0 | 3897.7 | 3958.8 | 4042.0 | 4169.4 | 4312.1 | 4481.9 | 4514.2 |
| 10° | 3641.2 | 3656.5 | 3683.7 | 3726.1 | 3817.9 | 3933.3 | 4099.8 | 4283.2 | 4510.8 | 4561.7 |
| 12.5° | 3588.6 | 3603.9 | 3619.1 | 3651.4 | 3736.3 | 3872.2 | 4070.9 | 4296.8 | 4580.4 | 4631.4 |
| 15° | 3710.9 | 3729.5 | 3717.7 | 3709.2 | 3753.3 | 3877.3 | 4084.5 | 4346.0 | 4667.0 | 4740.1 |
| 17.5° | 3992.8 | 3999.6 | 3972.4 | 3892.6 | 3885.8 | 3952.0 | 4149.0 | 4414.0 | 4775.7 | 4855.5 |
| 20° | 4447.9 | 4436.0 | 4380.0 | 4222.1 | 4132.0 | 4118.5 | 4259.4 | 4515.9 | 4887.8 | 4972.7 |
| 22.5° | 5066.1 | 5052.5 | 4940.5 | 4690.8 | 4490.4 | 4357.9 | 4419.1 | 4648.3 | 5013.5 | 5108.6 |
| 25° | 5837.2 | 5818.5 | 5653.8 | 5314.1 | 5003.3 | 4675.5 | 4636.5 | 4823.3 | 5168.0 | 5256.3 |
| 27.5° | 6737.3 | 6722.0 | 6543.7 | 6095.3 | 5647.0 | 5110.3 | 4906.5 | 5028.8 | 5329.4 | 5429.6 |
| 30° | 7705.3 | 7749.5 | 7433.6 | 6951.3 | 6384.0 | 5677.5 | 5269.9 | 5281.8 | 5538.3 | 5628.3 |
| 32.5° | 8843.2 | 8919.7 | 8539.2 | 7927.8 | 7153.4 | 6294.0 | 5728.5 | 5635.1 | 5842.3 | 5917.0 |
| 35° | 9970.9 | 10057.5 | 9741.6 | 9065.7 | 8174.1 | 7020.9 | 6207.4 | 6041.0 | 6246.5 | 6328.0 |
| 37.5° | 10945.8 | 11061.2 | 10898.2 | 10310.6 | 9266.1 | 7897.3 | 6832.4 | 6518.2 | 6744.1 | 6846.0 |
| 40° | 11715.1 | 11891.7 | 11879.8 | 11513.0 | 10553.4 | 8960.4 | 7625.5 | 7107.5 | 7362.3 | 7472.7 |
| 42.5° | 12340.1 | 12492.9 | 12625.4 | 12606.7 | 11896.8 | 10167.9 | 8557.9 | 7873.5 | 8067.1 | 8194.5 |
| 45° | 12771.5 | 12934.5 | 13219.8 | 13527.2 | 13189.3 | 11460.4 | 9626.2 | 8782.1 | 8958.7 | 9150.6 |
| 47.5° | 13157.0 | 13342.1 | 13712.3 | 14199.8 | 14286.4 | 12757.9 | 10796.3 | 9840.1 | 10001.5 | 10200.2 |
| 50° | 13191.0 | 13350.6 | 13924.6 | 14615.9 | 15065.9 | 14004.5 | 12053.1 | 11027.3 | 11178.4 | 11390.7 |
| 52.5° | 12370.7 | 12622.0 | 13624.0 | 14604.0 | 15424.3 | 15047.2 | 13301.4 | 12262.0 | 12431.8 | 12686.6 |
| 55° | 9602.4 | 9970.9 | 12742.6 | 14148.8 | 15296.9 | 15721.5 | 14488.5 | 13574.8 | 13792.2 | 14058.8 |
| 57.5° | 8270.9 | 8432.2 | 10115.3 | 13320.0 | 14716.1 | 15896.4 | 15490.5 | 14901.2 | 15251.0 | 15543.2 |
| 60° | 7433.6 | 7567.8 | 8563.0 | 12031.0 | 13951.8 | 15619.6 | 16264.9 | 16137.6 | 16742.2 | 17090.3 |
| 62.5° | 6536.9 | 6664.3 | 7569.5 | 10045.6 | 12973.6 | 15159.3 | 16754.1 | 17278.9 | 18270.7 | 18651.1 |
| 65° | 5647.0 | 5755.7 | 6623.5 | 8440.7 | 11730.4 | 14699.1 | 17007.1 | 18265.6 | 19685.4 | 20079.4 |
| 67.5° | 4655.1 | 4745.1 | 5565.4 | 7121.1 | 10218.9 | 14069.0 | 17132.8 | 19041.7 | 20916.7 | 21254.7 |
| 70° | 3359.3 | 3428.9 | 4276.4 | 5631.7 | 8321.8 | 12985.5 | 17081.8 | 19592.0 | 21555.3 | 21825.3 |
| 72.5° | 1587.9 | 1650.8 | 2646.0 | 3656.5 | 5877.9 | 10876.1 | 16051.0 | 19155.5 | 20906.5 | 20772.3 |
| 75° | 847.5 | 901.8 | 1520.0 | 2005.7 | 3104.6 | 7455.7 | 13134.9 | 16501.0 | 17555.7 | 16903.5 |
| 77.5° | 574.0 | 616.5 | 940.9 | 1204.1 | 1418.1 | 3539.3 | 8442.4 | 11424.7 | 10991.6 | 9914.9 |
| 80° | 455.2 | 499.3 | 771.0 | 815.2 | 686.1 | 1278.8 | 3488.4 | 5288.6 | 3799.2 | 3038.3 |
| 82.5° | 349.9 | 399.1 | 648.8 | 591.0 | 373.6 | 524.8 | 1015.6 | 1672.9 | 973.1 | 740.5 |
| 85° | 214.0 | 266.6 | 509.5 | 377.0 | 210.6 | 239.5 | 344.8 | 465.3 | 297.2 | 248.0 |
| 87.5° | 108.7 | 152.9 | 258.1 | 137.6 | 95.1 | 56.0 | 91.7 | 91.7 | 78.1 | 67.9 |
| 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-SB3D-750-U-T3R

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4626.3 | 0° | 4626.3 | 4626.3 | 4626.3 | 4626.3 | 4626.3 | 4626.3 | 4626.3 | 4626.3 | 4626.3 | 4626.3 |
| 4602.5 | 2.5° | 4643.2 | 4677.2 | 4735.0 | 4789.3 | 4831.8 | 4872.5 | 4913.3 | 4935.4 | 4942.2 | 4969.3 |
| 4628.0 | 5° | 4697.6 | 4760.4 | 4872.5 | 4977.8 | 5044.1 | 5084.8 | 5113.7 | 5130.7 | 5134.1 | 5142.6 |
| 4697.6 | 7.5° | 4797.8 | 4898.0 | 5054.2 | 5159.5 | 5208.8 | 5205.4 | 5193.5 | 5151.0 | 5134.1 | 5118.8 |
| 4799.5 | 10° | 4938.8 | 5071.2 | 5263.1 | 5336.2 | 5305.6 | 5224.1 | 5118.8 | 4994.8 | 4937.1 | 4881.0 |
| 4938.8 | 12.5° | 5113.7 | 5281.8 | 5470.3 | 5466.9 | 5315.8 | 5106.9 | 4862.3 | 4672.1 | 4551.5 | 4464.9 |
| 5110.3 | 15° | 5326.0 | 5519.6 | 5663.9 | 5548.5 | 5217.3 | 4842.0 | 4483.6 | 4235.6 | 4127.0 | 4031.8 |
| 5283.5 | 17.5° | 5545.1 | 5752.3 | 5818.5 | 5523.0 | 4969.3 | 4449.6 | 4043.7 | 3848.4 | 3741.4 | 3690.5 |
| 5470.3 | 20° | 5759.1 | 5964.5 | 5910.2 | 5376.9 | 4592.3 | 4004.7 | 3642.9 | 3535.9 | 3513.9 | 3525.7 |
| 5652.1 | 22.5° | 5984.9 | 6168.3 | 5928.9 | 5095.0 | 4111.7 | 3549.5 | 3350.8 | 3354.2 | 3403.5 | 3439.1 |
| 5842.3 | 25° | 6215.9 | 6339.9 | 5879.6 | 4687.4 | 3595.4 | 3214.9 | 3165.7 | 3220.0 | 3316.8 | 3386.5 |
| 6056.3 | 27.5° | 6438.4 | 6492.7 | 5772.6 | 4183.0 | 3152.1 | 2975.5 | 2984.0 | 3096.1 | 3242.1 | 3338.9 |
| 6316.1 | 30° | 6689.7 | 6628.6 | 5567.1 | 3615.8 | 2844.7 | 2770.0 | 2841.3 | 2972.1 | 3118.1 | 3204.8 |
| 6643.9 | 32.5° | 6973.4 | 6745.8 | 5241.1 | 3091.0 | 2627.3 | 2605.2 | 2722.4 | 2807.3 | 2871.9 | 2897.4 |
| 7078.7 | 35° | 7326.6 | 6910.5 | 4823.3 | 2722.4 | 2432.0 | 2484.7 | 2596.8 | 2554.3 | 2528.8 | 2515.2 |
| 7662.9 | 37.5° | 7785.2 | 7133.0 | 4334.1 | 2483.0 | 2274.1 | 2398.0 | 2443.9 | 2311.4 | 2211.2 | 2162.0 |
| 8371.1 | 40° | 8337.1 | 7459.1 | 3863.7 | 2297.8 | 2173.9 | 2323.3 | 2243.5 | 2083.9 | 1956.5 | 1886.8 |
| 9167.6 | 42.5° | 8950.2 | 7800.4 | 3468.0 | 2158.6 | 2117.8 | 2262.2 | 2095.7 | 1905.5 | 1700.0 | 1678.0 |
| 10117.0 | 45° | 9593.9 | 8152.0 | 3198.0 | 2051.6 | 2090.6 | 2209.5 | 2010.8 | 1703.4 | 1557.4 | 1647.4 |
| 11069.7 | 47.5° | 10237.6 | 8474.7 | 3034.9 | 1971.8 | 2077.1 | 2150.1 | 1936.1 | 1591.3 | 1487.7 | 1618.5 |
| 12090.4 | 50° | 10954.3 | 8763.4 | 2961.9 | 1914.0 | 2061.8 | 2126.3 | 1824.0 | 1562.5 | 1414.7 | 1501.3 |
| 13146.8 | 52.5° | 11665.9 | 8987.6 | 2907.5 | 1856.3 | 2039.7 | 2107.6 | 1769.7 | 1528.5 | 1326.4 | 1331.5 |
| 14210.0 | 55° | 12375.8 | 9133.6 | 2848.1 | 1779.9 | 1990.4 | 2066.9 | 1764.6 | 1491.1 | 1260.2 | 1236.4 |
| 15334.3 | 57.5° | 13133.2 | 9216.9 | 2775.1 | 1694.9 | 1905.5 | 1963.3 | 1759.5 | 1462.3 | 1239.8 | 1200.7 |
| 16484.0 | 60° | 13904.3 | 9339.1 | 2680.0 | 1591.3 | 1791.7 | 1839.3 | 1747.6 | 1452.1 | 1227.9 | 1161.7 |
| 17567.6 | 62.5° | 14595.5 | 9381.6 | 2566.2 | 1492.8 | 1645.7 | 1717.0 | 1722.1 | 1443.6 | 1195.6 | 1081.8 |
| 18467.7 | 65° | 15048.9 | 9198.2 | 2367.5 | 1380.7 | 1487.7 | 1591.3 | 1672.9 | 1414.7 | 1137.9 | 1024.1 |
| 18912.6 | 67.5° | 15030.3 | 8675.1 | 2056.7 | 1236.4 | 1334.9 | 1452.1 | 1601.5 | 1365.5 | 1068.3 | 952.8 |
| 18576.4 | 70° | 14330.5 | 7642.5 | 1662.7 | 1068.3 | 1166.8 | 1302.6 | 1509.8 | 1292.4 | 985.0 | 874.6 |
| 16518.0 | 72.5° | 12290.8 | 5981.5 | 1207.5 | 871.2 | 971.4 | 1148.1 | 1390.9 | 1204.1 | 900.1 | 805.0 |
| 12207.6 | 75° | 8780.4 | 3785.6 | 818.6 | 669.1 | 755.8 | 973.1 | 1243.2 | 1100.5 | 822.0 | 808.4 |
| 6114.0 | 77.5° | 4485.3 | 1808.7 | 541.8 | 489.1 | 526.5 | 767.6 | 1044.5 | 983.3 | 833.9 | 667.4 |
| 1739.1 | 80° | 1458.9 | 667.4 | 341.4 | 332.9 | 349.9 | 511.2 | 808.4 | 806.7 | 631.8 | 453.5 |
| 421.2 | 82.5° | 465.3 | 287.0 | 222.5 | 214.0 | 205.5 | 321.0 | 563.8 | 638.6 | 426.3 | 287.0 |
| 151.2 | 85° | 185.1 | 171.5 | 130.8 | 120.6 | 86.6 | 151.2 | 295.5 | 424.6 | 317.6 | 207.2 |
| 39.1 | 87.5° | 67.9 | 67.9 | 35.7 | 25.5 | 18.7 | 51.0 | 79.8 | 127.4 | 181.7 | 107.0 |
| 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> |
|--------------|
| 4626.3 |
| 4984.6 |
| 5156.1 |
| 5122.2 |
| 4864.0 |
| 4444.5 |
| 4021.7 |
| 3705.8 |
| 3520.6 |
| 3447.6 |
| 3405.2 |
| 3362.7 |
| 3225.1 |
| 2910.9 |
| 2528.8 |
| 2173.9 |
| 1891.9 |
| 1700.0 |
| 1694.9 |
| 1679.7 |
| 1565.9 |
| 1367.2 |
| 1253.4 |
| 1205.8 |
| 1166.8 |
| 1081.8 |
| 1024.1 |
| 957.9 |
| <i>884.8</i> |
| 799.9 |
| 762.6 |
| 594.4 |
| 400.8 |
| 285.3 |
| 212.3 |
| 105.3 |
| 0.0 |

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