

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: P941319

Luminaire Tested: **GALN-SB4D-750-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941319
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-SB4D-750-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42646 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

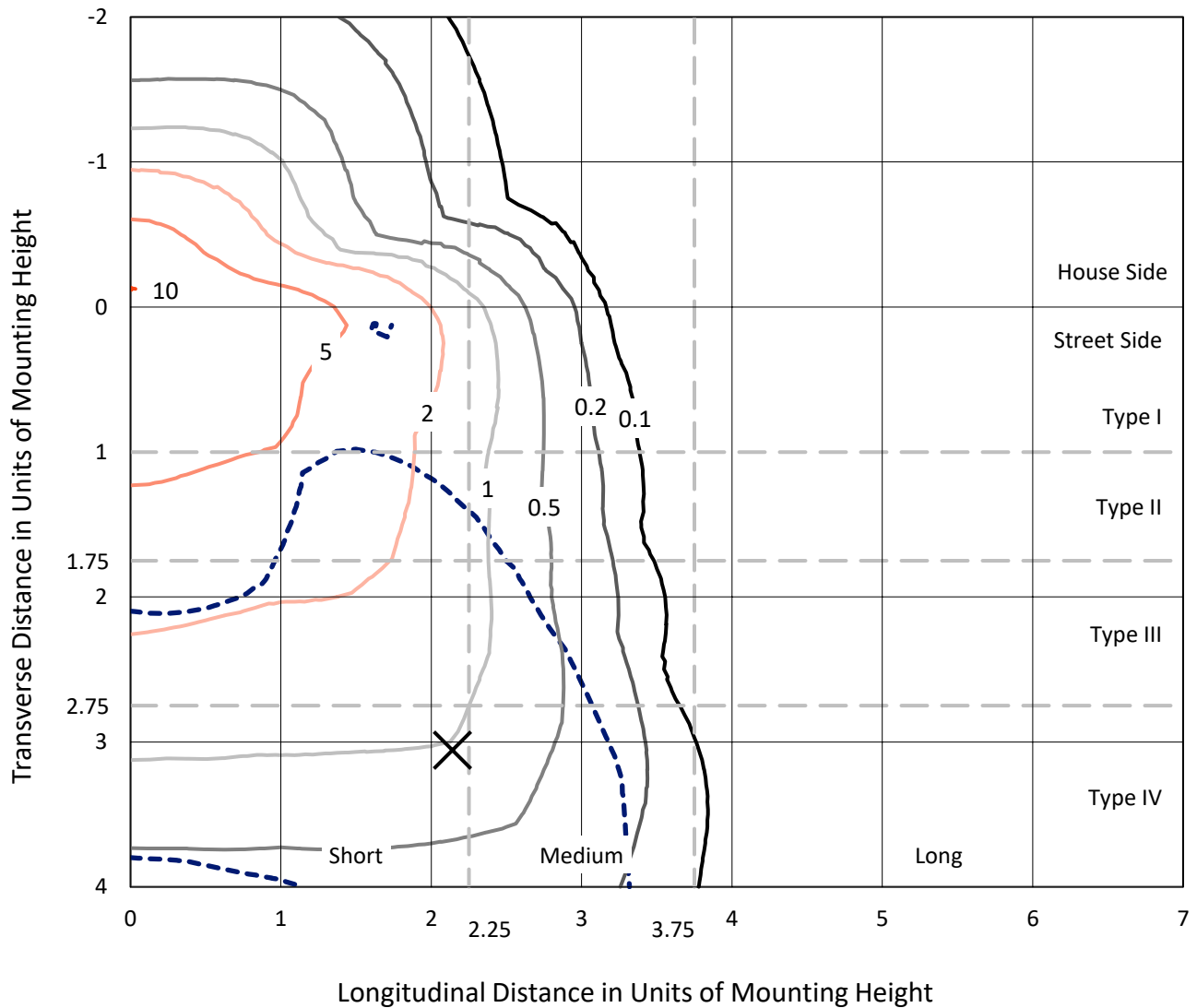
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

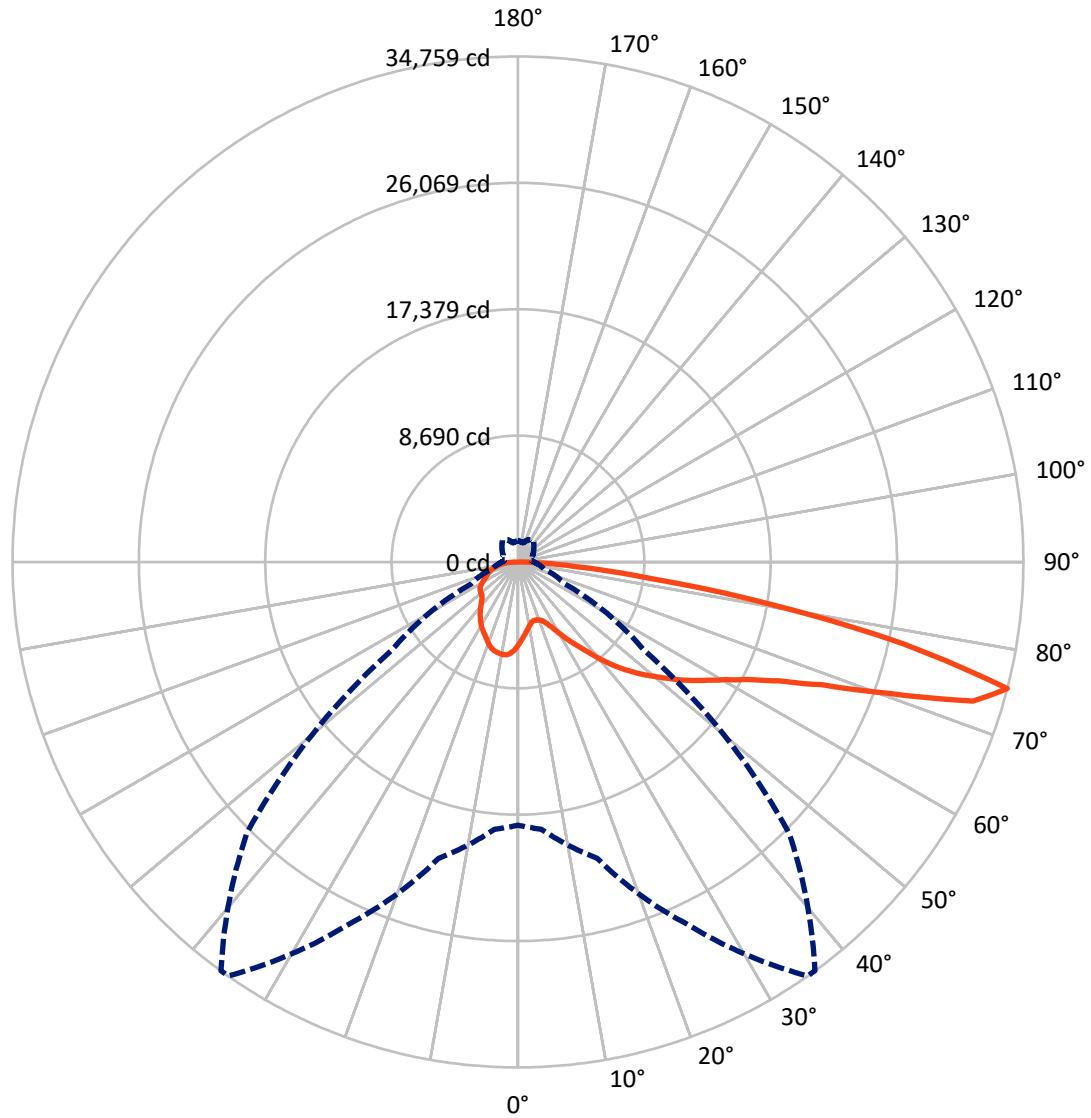
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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 | 10148.7 | 0.0 | 10148.7 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 32497.3 | 0.0 | 32497.3 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 42646.0 | 0.0 | 42646.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 538.1 | 1.3 |
| 10°-20° | 1552.0 | 3.6 |
| 20°-30° | 2606.2 | 6.1 |
| 30°-40° | 4050.4 | 9.5 |
| 40°-50° | 6011.8 | 14.1 |
| 50°-60° | 8299.7 | 19.5 |
| 60°-70° | 10069.4 | 23.6 |
| 70°-80° | 8321.6 | 19.5 |
| 80°-90° | 1196.9 | 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° | 42646.0 | 100.0 |
| 0°-180° | 42646.0 | 100.0 |

Coefficient of Utilization



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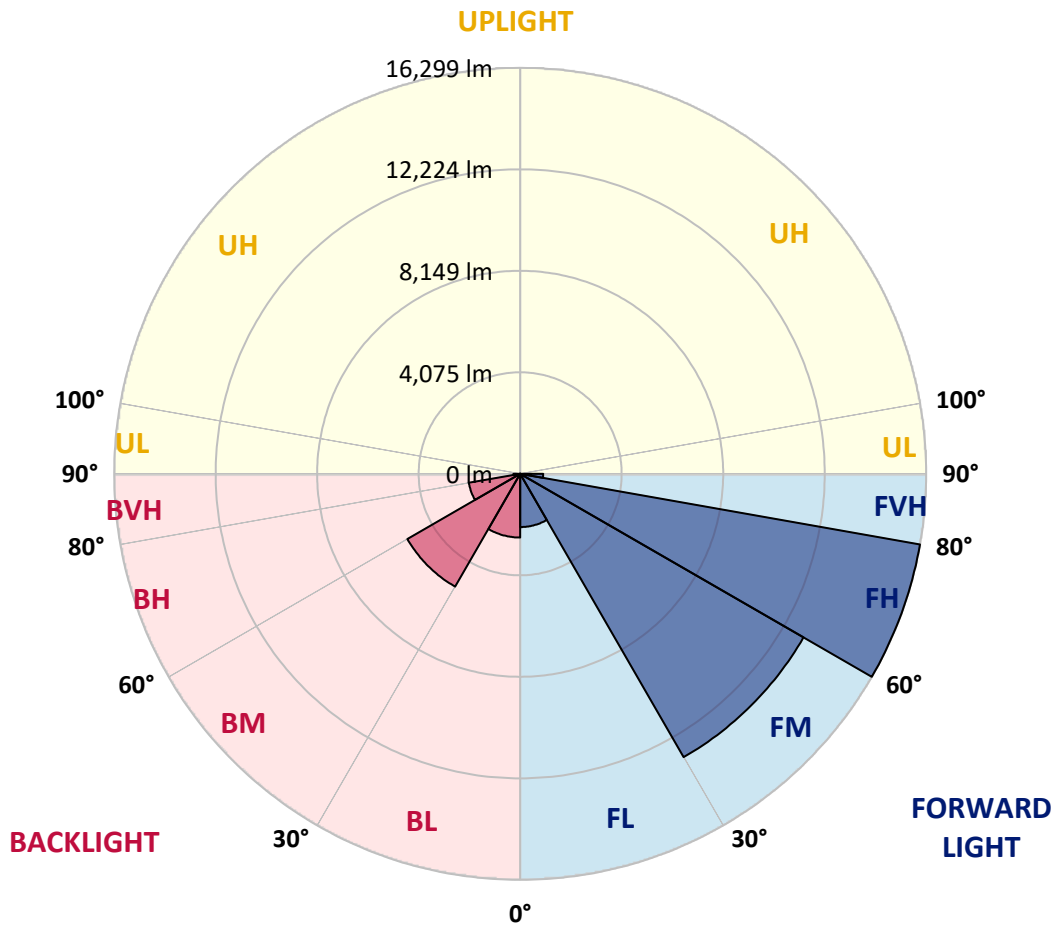
CATALOG NUMBER: GALN-SB4D-750-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2138.6 | 5.0 | | | |
| FM (30°-60°) | 13132.7 | 30.8 | | | |
| FH (60°-80°) | 16298.7 | 38.2 | | | G5 |
| FVH (80°-90°) | 927.4 | 2.2 | | | G5 |
| BL (0°-30°) | 2557.6 | 6.0 | B4/5000 | | |
| BM (30°-60°) | 5229.2 | 12.3 | B4/8500 | | |
| BH (60°-80°) | 2092.3 | 4.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 269.5 | 0.6 | | | 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 IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5682.9 | 5682.9 | 5682.9 | 5682.9 | 5682.9 | 5682.9 | 5682.9 | 5682.9 | 5682.9 | 5682.9 |
| 2.5° | 5240.2 | 5272.5 | 5286.3 | 5279.4 | 5314.0 | 5309.4 | 5357.8 | 5417.7 | 5500.7 | 5581.4 |
| 5° | 4836.8 | 4871.4 | 4901.3 | 4929.0 | 4995.9 | 5016.6 | 5092.7 | 5208.0 | 5360.1 | 5514.6 |
| 7.5° | 4461.0 | 4491.0 | 4537.1 | 4587.8 | 4700.8 | 4721.5 | 4848.3 | 5028.1 | 5240.2 | 5466.2 |
| 10° | 4154.4 | 4184.3 | 4232.8 | 4290.4 | 4431.0 | 4456.4 | 4617.8 | 4857.5 | 5134.2 | 5420.0 |
| 12.5° | 4023.0 | 4032.2 | 4059.9 | 4117.5 | 4239.7 | 4255.8 | 4433.3 | 4707.7 | 5030.4 | 5385.5 |
| 15° | 4016.0 | 4034.5 | 4036.8 | 4066.8 | 4168.2 | 4175.1 | 4338.8 | 4610.8 | 4965.9 | 5378.6 |
| 17.5° | 4085.2 | 4099.0 | 4078.3 | 4096.7 | 4182.0 | 4193.6 | 4322.7 | 4564.7 | 4945.1 | 5408.5 |
| 20° | 4269.6 | 4281.2 | 4218.9 | 4193.6 | 4255.8 | 4265.0 | 4391.8 | 4594.7 | 4965.9 | 5470.8 |
| 22.5° | 4661.6 | 4668.5 | 4516.3 | 4412.6 | 4417.2 | 4421.8 | 4532.5 | 4716.9 | 5046.6 | 5583.7 |
| 25° | 5272.5 | 5267.9 | 5025.8 | 4825.3 | 4710.0 | 4684.6 | 4758.4 | 4915.2 | 5182.6 | 5733.6 |
| 27.5° | 5987.2 | 5952.6 | 5710.5 | 5410.8 | 5159.5 | 5122.7 | 5106.5 | 5173.4 | 5376.2 | 5931.9 |
| 30° | 6794.1 | 6761.8 | 6501.3 | 6109.4 | 5761.3 | 5701.3 | 5549.2 | 5514.6 | 5664.4 | 6201.6 |
| 32.5° | 7679.4 | 7658.6 | 7347.4 | 6872.5 | 6406.8 | 6337.6 | 6081.7 | 5989.5 | 6107.1 | 6609.6 |
| 35° | 8421.7 | 8403.3 | 8145.1 | 7656.3 | 7086.9 | 7001.6 | 6741.1 | 6637.3 | 6697.3 | 7133.0 |
| 37.5° | 9092.6 | 9083.4 | 8862.0 | 8477.0 | 7889.2 | 7785.4 | 7492.6 | 7458.0 | 7446.5 | 7822.3 |
| 40° | 9715.1 | 9692.0 | 9461.5 | 9258.6 | 8822.9 | 8728.3 | 8470.1 | 8440.2 | 8352.5 | 8670.7 |
| 42.5° | 10404.4 | 10344.4 | 10010.1 | 9915.6 | 9798.0 | 9719.7 | 9565.2 | 9569.8 | 9376.2 | 9627.4 |
| 45° | 10966.9 | 10932.3 | 10588.8 | 10533.5 | 10660.3 | 10628.0 | 10761.7 | 10796.3 | 10420.5 | 10630.3 |
| 47.5° | 11570.9 | 11538.6 | 11248.2 | 11209.0 | 11552.5 | 11561.7 | 12034.3 | 12045.8 | 11439.5 | 11672.4 |
| 50° | 12315.6 | 12269.5 | 11981.3 | 12029.7 | 12414.7 | 12449.3 | 13313.8 | 13235.4 | 12377.8 | 12730.5 |
| 52.5° | 12806.6 | 12834.3 | 12772.0 | 12850.4 | 13376.1 | 13408.3 | 14572.6 | 14372.0 | 13306.9 | 13774.9 |
| 55° | 13168.6 | 13223.9 | 13417.6 | 13597.4 | 14390.5 | 14422.7 | 15759.9 | 15453.3 | 14076.9 | 14743.2 |
| 57.5° | 13634.3 | 13555.9 | 13917.8 | 14268.3 | 15354.1 | 15439.4 | 16914.9 | 16495.3 | 14759.3 | 15577.7 |
| 60° | 14302.8 | 14247.5 | 14528.8 | 15047.5 | 16433.1 | 16569.1 | 18136.8 | 17433.6 | 15259.6 | 16239.4 |
| 62.5° | 15658.4 | 15520.1 | 15563.9 | 16022.7 | 17793.3 | 17973.1 | 19515.4 | 18252.0 | 15508.6 | 16497.6 |
| 65° | 17684.9 | 17447.4 | 17226.1 | 17544.3 | 19709.1 | 19886.6 | 21071.6 | 18895.2 | 15416.4 | 15997.3 |
| 67.5° | 20237.0 | 20001.9 | 19729.8 | 20029.5 | 22530.9 | 22671.5 | 22992.0 | 19257.2 | 14690.2 | 14070.0 |
| 70° | 22341.9 | 22254.2 | 22579.3 | 23812.7 | 27038.0 | 27042.6 | 25454.2 | 18957.5 | 12700.6 | 9975.6 |
| 72.5° | 22062.9 | 22009.9 | 23722.8 | 27536.0 | 32718.6 | 32596.4 | 27785.0 | 16689.0 | 8555.4 | 4500.2 |
| 75° | 18099.9 | 18443.4 | 21096.9 | 27469.1 | 34758.9 | 34742.7 | 26357.9 | 10609.6 | 3538.8 | 1865.1 |
| 77.5° | 9705.8 | 10249.9 | 13696.5 | 20280.8 | 27134.8 | 27542.9 | 18531.0 | 3711.7 | 1519.3 | 1194.2 |
| 80° | 3165.3 | 3640.3 | 5459.2 | 10326.0 | 17631.9 | 17555.8 | 7942.2 | 1457.0 | 1039.7 | 846.1 |
| 82.5° | 1344.1 | 1399.4 | 2439.1 | 4876.0 | 9048.8 | 8908.2 | 2529.0 | 836.9 | 730.8 | 578.7 |
| 85° | 525.6 | 587.9 | 1076.6 | 2254.7 | 3919.2 | 3833.9 | 912.9 | 415.0 | 468.0 | 378.1 |
| 87.5° | 172.9 | 209.8 | 385.0 | 772.3 | 1219.6 | 1175.8 | 223.6 | 142.9 | 202.9 | 172.9 |
| 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-SB4D-750-U-T4FT

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5682.9 | 0° | 5682.9 | 5682.9 | 5682.9 | 5682.9 | 5682.9 | 5682.9 | 5682.9 | 5682.9 | 5682.9 | 5682.9 |
| 5699.0 | 2.5° | 5731.3 | 5768.2 | 5812.0 | 5876.5 | 5931.9 | 5978.0 | 6026.4 | 6056.3 | 6067.9 | 6102.5 |
| 5708.2 | 5° | 5772.8 | 5853.5 | 5961.8 | 6067.9 | 6171.6 | 6233.9 | 6289.2 | 6316.9 | 6342.2 | 6360.7 |
| 5733.6 | 7.5° | 5841.9 | 5945.7 | 6116.3 | 6254.6 | 6342.2 | 6392.9 | 6429.8 | 6420.6 | 6429.8 | 6434.4 |
| 5761.3 | 10° | 5901.9 | 6047.1 | 6250.0 | 6381.4 | 6448.3 | 6450.6 | 6441.4 | 6409.1 | 6392.9 | 6395.2 |
| 5802.7 | 12.5° | 5973.4 | 6134.7 | 6353.7 | 6464.4 | 6482.8 | 6432.1 | 6392.9 | 6337.6 | 6316.9 | 6307.6 |
| 5865.0 | 15° | 6070.2 | 6254.6 | 6466.7 | 6508.2 | 6462.1 | 6397.5 | 6330.7 | 6240.8 | 6194.7 | 6157.8 |
| 5971.0 | 17.5° | 6187.8 | 6390.6 | 6554.3 | 6524.3 | 6425.2 | 6319.2 | 6210.8 | 6074.8 | 5980.3 | 5941.1 |
| 6116.3 | 20° | 6351.4 | 6533.6 | 6621.2 | 6489.8 | 6339.9 | 6178.5 | 5994.1 | 5828.1 | 5740.5 | 5701.3 |
| 6300.7 | 22.5° | 6549.7 | 6724.9 | 6685.7 | 6429.8 | 6217.7 | 5959.5 | 5729.0 | 5606.8 | 5563.0 | 5535.3 |
| 6538.2 | 25° | 6787.2 | 6937.0 | 6731.8 | 6342.2 | 6017.2 | 5669.0 | 5491.5 | 5452.3 | 5431.6 | 5410.8 |
| 6828.7 | 27.5° | 7096.1 | 7176.8 | 6766.4 | 6213.1 | 5703.6 | 5360.1 | 5295.6 | 5302.5 | 5295.6 | 5261.0 |
| 7232.1 | 30° | 7504.2 | 7488.0 | 6798.7 | 6003.3 | 5344.0 | 5081.2 | 5085.8 | 5115.7 | 5120.3 | 5097.3 |
| 7794.6 | 32.5° | 8041.3 | 7877.6 | 6814.8 | 5731.3 | 5000.5 | 4836.8 | 4841.4 | 4873.7 | 4896.7 | 4857.5 |
| 8530.1 | 35° | 8691.4 | 8331.8 | 6789.5 | 5390.1 | 4735.3 | 4603.9 | 4569.3 | 4578.6 | 4585.5 | 4548.6 |
| 9422.3 | 37.5° | 9449.9 | 8841.3 | 6676.5 | 5012.0 | 4516.3 | 4375.7 | 4301.9 | 4239.7 | 4202.8 | 4168.2 |
| 10432.0 | 40° | 10282.2 | 9396.9 | 6469.0 | 4643.1 | 4271.9 | 4133.6 | 4023.0 | 3905.4 | 3780.9 | 3734.8 |
| 11501.8 | 42.5° | 11153.6 | 9968.6 | 6217.7 | 4290.4 | 3990.7 | 3877.7 | 3760.1 | 3589.5 | 3402.8 | 3308.3 |
| 12613.0 | 45° | 12057.4 | 10554.2 | 5971.0 | 3942.3 | 3702.5 | 3654.1 | 3518.1 | 3312.9 | 3110.0 | 2990.1 |
| 13726.5 | 47.5° | 12942.6 | 11107.5 | 5609.1 | 3591.8 | 3432.8 | 3485.8 | 3379.8 | 3190.7 | 2964.8 | 2775.7 |
| 14830.8 | 50° | 13788.7 | 11626.2 | 5016.6 | 3236.8 | 3213.8 | 3435.1 | 3333.6 | 3061.6 | 2803.4 | 2561.3 |
| 15914.3 | 52.5° | 14627.9 | 12045.8 | 4258.1 | 2914.1 | 3096.2 | 3421.2 | 3273.7 | 2974.0 | 2658.2 | 2404.6 |
| 16933.3 | 55° | 15340.3 | 12262.5 | 3527.3 | 2637.4 | 2925.6 | 3303.7 | 3202.2 | 2870.3 | 2453.0 | 2183.2 |
| 17631.9 | 57.5° | 15746.0 | 12087.3 | 2918.7 | 2365.4 | 2690.4 | 3110.0 | 3080.0 | 2648.9 | 2208.6 | 2001.1 |
| 17767.9 | 60° | 15570.8 | 11377.3 | 2420.7 | 2127.9 | 2466.8 | 2900.2 | 2867.9 | 2429.9 | 2021.9 | 1825.9 |
| 17039.4 | 62.5° | 14604.9 | 10024.0 | 2026.5 | 1920.4 | 2263.9 | 2685.8 | 2655.8 | 2261.6 | 1878.9 | 1689.9 |
| 15105.1 | 65° | 12659.1 | 8154.3 | 1719.8 | 1747.5 | 2058.7 | 2427.6 | 2471.4 | 2121.0 | 1766.0 | 1581.5 |
| 11686.2 | 67.5° | 9655.1 | 5906.5 | 1480.1 | 1597.7 | 1858.2 | 2174.0 | 2300.8 | 2019.6 | 1671.4 | 1496.2 |
| 6761.8 | 70° | 5503.0 | 3354.4 | 1277.2 | 1452.4 | 1680.7 | 1938.9 | 2169.4 | 1938.9 | 1570.0 | 1424.8 |
| 2533.7 | 72.5° | 2086.4 | 1540.0 | 1104.3 | 1307.2 | 1510.1 | 1740.6 | 2024.2 | 1812.1 | 1452.4 | 1344.1 |
| 1309.5 | 75° | 1113.5 | 938.3 | 929.1 | 1136.6 | 1314.1 | 1546.9 | 1842.0 | 1687.6 | 1364.8 | 1420.1 |
| 906.0 | 77.5° | 758.5 | 664.0 | 776.9 | 972.9 | 1099.7 | 1332.5 | 1648.4 | 1498.5 | 1182.7 | 1178.1 |
| 627.1 | 80° | 525.6 | 470.3 | 631.7 | 783.8 | 850.7 | 1120.4 | 1438.6 | 1286.4 | 963.7 | 899.1 |
| 387.3 | 82.5° | 315.8 | 306.6 | 472.6 | 585.6 | 601.7 | 864.5 | 1191.9 | 1078.9 | 788.5 | 687.0 |
| 230.5 | 85° | 172.9 | 182.1 | 302.0 | 343.5 | 350.4 | 604.0 | 933.7 | 834.6 | 606.3 | 509.5 |
| 83.0 | 87.5° | 48.4 | 62.2 | 110.7 | 136.0 | 168.3 | 313.5 | 555.6 | 495.7 | 304.3 | 212.1 |
| 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> |
|-------------|
| 5682.9 |
| 6100.1 |
| 6365.3 |
| 6441.4 |
| 6399.9 |
| 6303.0 |
| 6169.3 |
| 5943.4 |
| 5696.7 |
| 5539.9 |
| 5410.8 |
| 5267.9 |
| 5108.8 |
| 4876.0 |
| 4574.0 |
| 4191.3 |
| 3755.5 |
| 3319.8 |
| 2980.9 |
| 2755.0 |
| 2540.6 |
| 2376.9 |
| 2160.2 |
| 1973.4 |
| 1798.2 |
| 1659.9 |
| 1551.5 |
| 1468.6 |
| 1406.3 |
| 1325.6 |
| 1466.2 |
| 1085.9 |
| 859.9 |
| 691.6 |
| 514.1 |
| 212.1 |
| 0.0 |

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