

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: P944199

Luminaire Tested: **GALN-SB9A-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944199
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-SB9A-740-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42724 lumens
Efficiency: N/A
Efficacy: 167.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

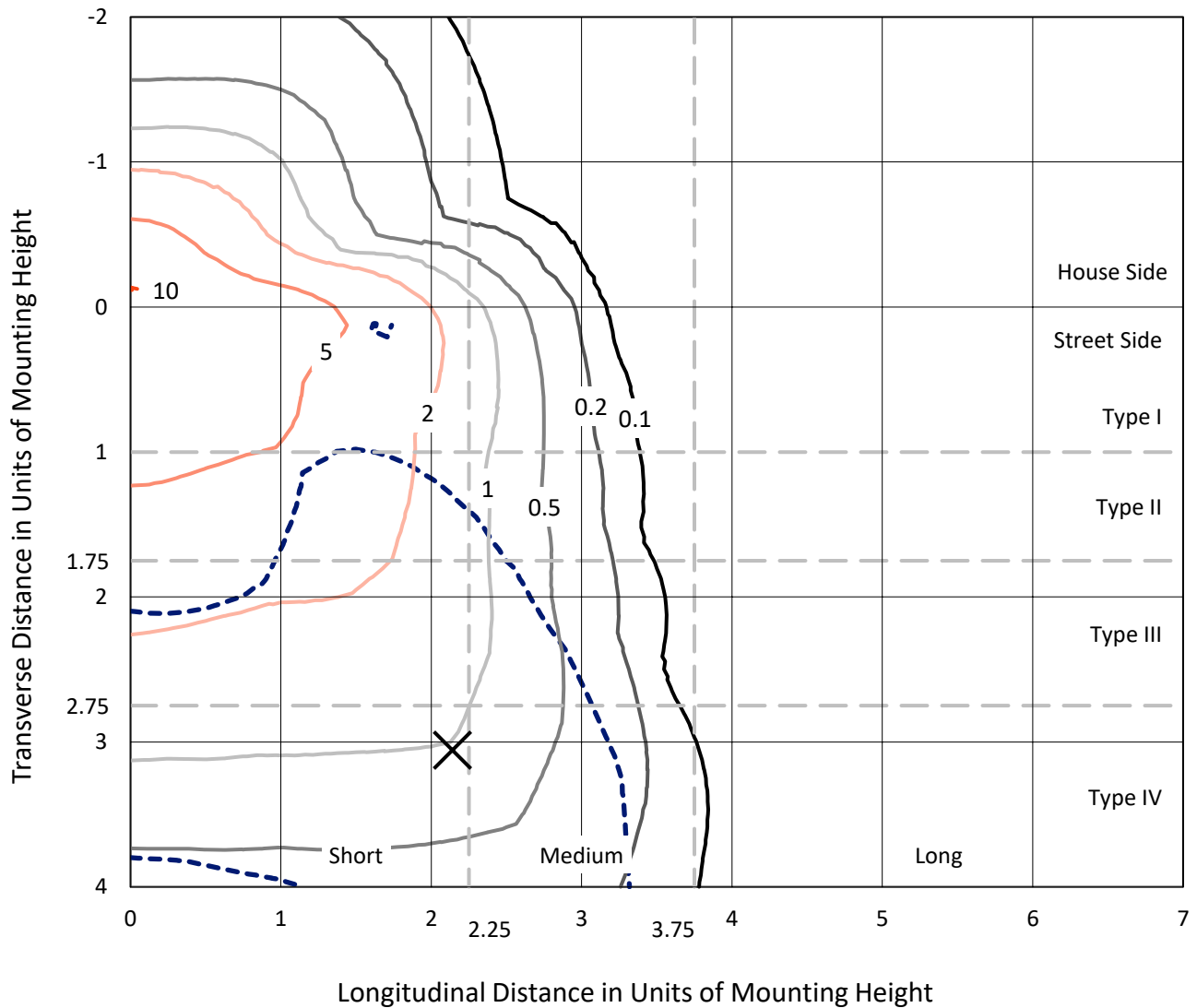
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

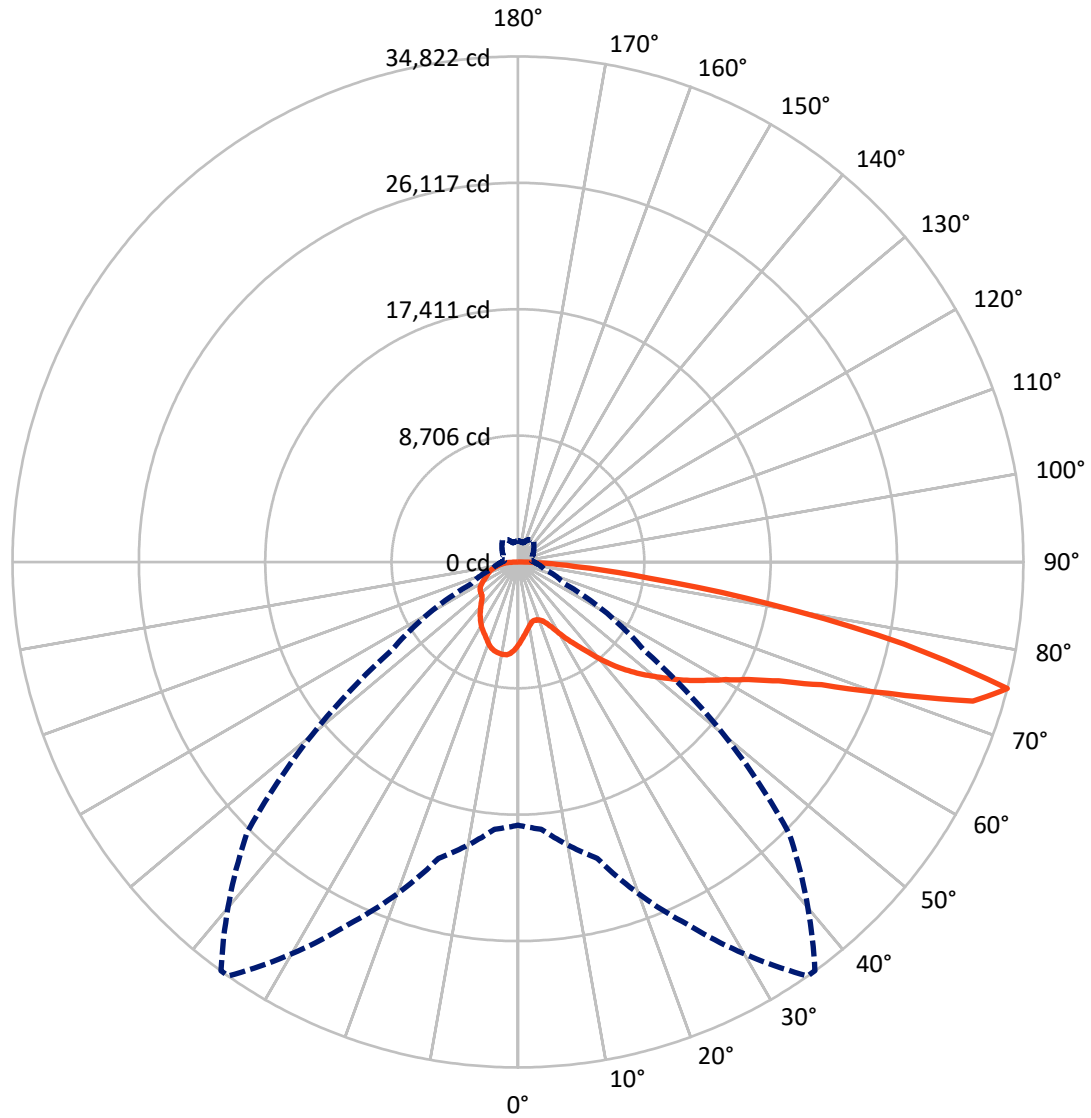
× Max cd
 - - - 1/2 Max cd



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 | 10167.2 | 0.0 | 10167.2 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 32556.8 | 0.0 | 32556.8 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 42724.0 | 0.0 | 42724.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 539.0 | 1.3 |
| 10°-20° | 1554.8 | 3.6 |
| 20°-30° | 2610.9 | 6.1 |
| 30°-40° | 4057.8 | 9.5 |
| 40°-50° | 6022.8 | 14.1 |
| 50°-60° | 8314.9 | 19.5 |
| 60°-70° | 10087.8 | 23.6 |
| 70°-80° | 8336.8 | 19.5 |
| 80°-90° | 1199.1 | 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° | 42724.0 | 100.0 |
| 0°-180° | 42724.0 | 100.0 |

Coefficient of Utilization



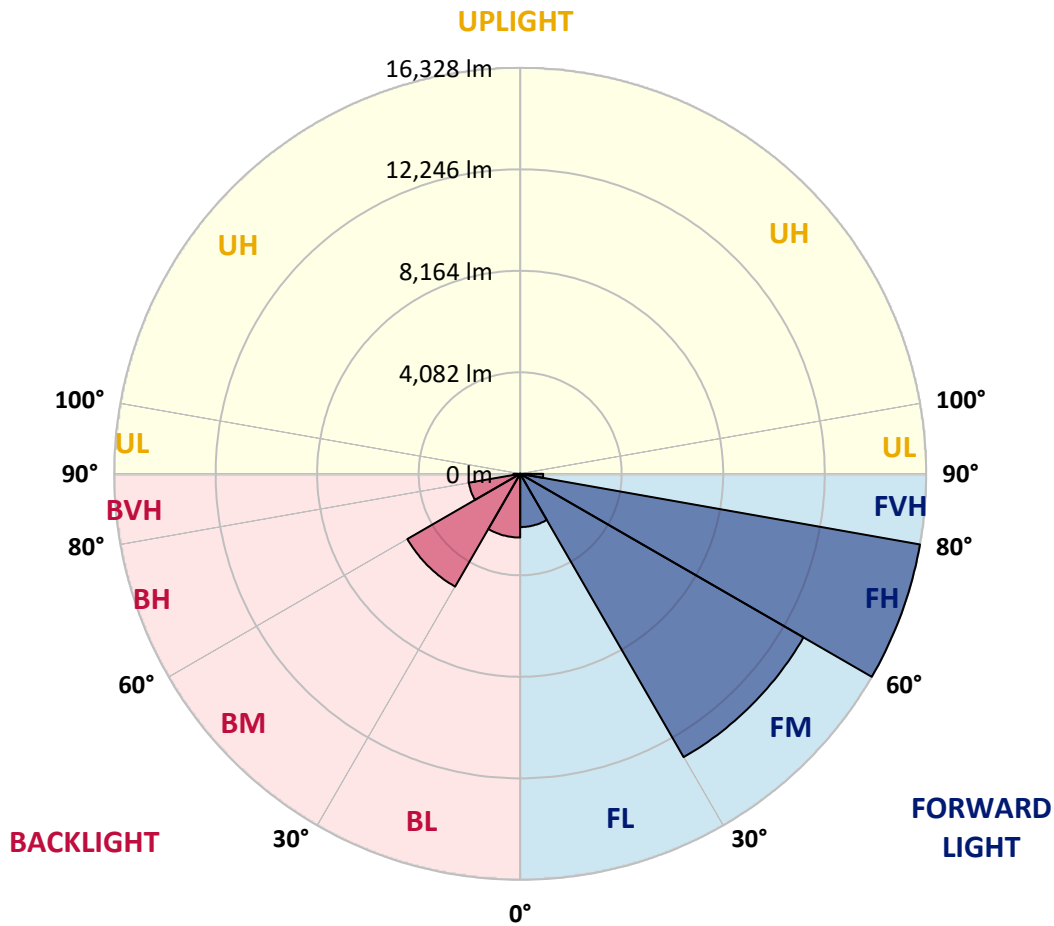
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2142.5 | 5.0 | | | |
| FM (30°-60°) | 13156.7 | 30.8 | | | |
| FH (60°-80°) | 16328.5 | 38.2 | | | G5 |
| FVH (80°-90°) | 929.1 | 2.2 | | | G5 |
| BL (0°-30°) | 2562.3 | 6.0 | B4/5000 | | |
| BM (30°-60°) | 5238.8 | 12.3 | B4/8500 | | |
| BH (60°-80°) | 2096.2 | 4.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 270.0 | 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° | 5693.3 | 5693.3 | 5693.3 | 5693.3 | 5693.3 | 5693.3 | 5693.3 | 5693.3 | 5693.3 | 5693.3 |
| 2.5° | 5249.8 | 5282.1 | 5296.0 | 5289.1 | 5323.7 | 5319.1 | 5367.6 | 5427.7 | 5510.8 | 5591.6 |
| 5° | 4845.6 | 4880.3 | 4910.3 | 4938.0 | 5005.0 | 5025.8 | 5102.0 | 5217.5 | 5369.9 | 5524.7 |
| 7.5° | 4469.2 | 4499.2 | 4545.4 | 4596.2 | 4709.4 | 4730.1 | 4857.2 | 5037.3 | 5249.8 | 5476.2 |
| 10° | 4162.0 | 4192.0 | 4240.5 | 4298.2 | 4439.1 | 4464.5 | 4626.2 | 4866.4 | 5143.6 | 5430.0 |
| 12.5° | 4030.3 | 4039.6 | 4067.3 | 4125.0 | 4247.4 | 4263.6 | 4441.4 | 4716.3 | 5039.6 | 5395.3 |
| 15° | 4023.4 | 4041.9 | 4044.2 | 4074.2 | 4175.8 | 4182.8 | 4346.7 | 4619.3 | 4975.0 | 5388.4 |
| 17.5° | 4092.7 | 4106.5 | 4085.8 | 4104.2 | 4189.7 | 4201.2 | 4330.6 | 4573.1 | 4954.2 | 5418.4 |
| 20° | 4277.5 | 4289.0 | 4226.6 | 4201.2 | 4263.6 | 4272.8 | 4399.9 | 4603.1 | 4975.0 | 5480.8 |
| 22.5° | 4670.1 | 4677.0 | 4524.6 | 4420.7 | 4425.3 | 4429.9 | 4540.8 | 4725.5 | 5055.8 | 5593.9 |
| 25° | 5282.1 | 5277.5 | 5035.0 | 4834.1 | 4718.6 | 4693.2 | 4767.1 | 4924.2 | 5192.1 | 5744.1 |
| 27.5° | 5998.1 | 5963.5 | 5721.0 | 5420.7 | 5169.0 | 5132.0 | 5115.9 | 5182.8 | 5386.1 | 5942.7 |
| 30° | 6806.5 | 6774.2 | 6513.2 | 6120.5 | 5771.8 | 5711.7 | 5559.3 | 5524.7 | 5674.8 | 6212.9 |
| 32.5° | 7693.4 | 7672.6 | 7360.8 | 6885.0 | 6418.5 | 6349.2 | 6092.8 | 6000.4 | 6118.2 | 6621.7 |
| 35° | 8437.1 | 8418.6 | 8160.0 | 7670.3 | 7099.8 | 7014.4 | 6753.4 | 6649.5 | 6709.5 | 7146.0 |
| 37.5° | 9109.2 | 9100.0 | 8878.3 | 8492.5 | 7903.6 | 7799.7 | 7506.3 | 7471.7 | 7460.1 | 7836.6 |
| 40° | 9732.8 | 9709.7 | 9478.8 | 9275.5 | 8839.0 | 8744.3 | 8485.6 | 8455.6 | 8367.8 | 8686.6 |
| 42.5° | 10423.4 | 10363.4 | 10028.5 | 9933.8 | 9816.0 | 9737.4 | 9582.7 | 9587.3 | 9393.3 | 9645.1 |
| 45° | 10987.0 | 10952.3 | 10608.2 | 10552.7 | 10679.8 | 10647.4 | 10781.4 | 10816.0 | 10439.6 | 10649.7 |
| 47.5° | 11592.1 | 11559.7 | 11268.7 | 11229.5 | 11573.6 | 11582.8 | 12056.3 | 12067.9 | 11460.4 | 11693.7 |
| 50° | 12338.1 | 12291.9 | 12003.2 | 12051.7 | 12437.4 | 12472.1 | 13338.2 | 13259.6 | 12400.5 | 12753.8 |
| 52.5° | 12830.0 | 12857.8 | 12795.4 | 12873.9 | 13400.5 | 13432.9 | 14599.2 | 14398.3 | 13331.2 | 13800.1 |
| 55° | 13192.7 | 13248.1 | 13442.1 | 13622.3 | 14416.8 | 14449.1 | 15788.7 | 15481.5 | 14102.7 | 14770.1 |
| 57.5° | 13659.2 | 13580.7 | 13943.3 | 14294.4 | 15382.2 | 15467.7 | 16945.8 | 16525.5 | 14786.3 | 15606.2 |
| 60° | 14329.0 | 14273.6 | 14555.3 | 15075.0 | 16463.1 | 16599.4 | 18169.9 | 17465.5 | 15287.5 | 16269.1 |
| 62.5° | 15687.1 | 15548.5 | 15592.4 | 16052.0 | 17825.8 | 18006.0 | 19551.1 | 18285.4 | 15536.9 | 16527.8 |
| 65° | 17717.2 | 17479.4 | 17257.6 | 17576.4 | 19745.1 | 19923.0 | 21110.1 | 18929.8 | 15444.6 | 16026.6 |
| 67.5° | 20274.0 | 20038.4 | 19765.9 | 20066.2 | 22572.1 | 22713.0 | 23034.0 | 19292.4 | 14717.0 | 14095.7 |
| 70° | 22382.7 | 22295.0 | 22620.6 | 23856.3 | 27087.5 | 27092.1 | 25500.7 | 18992.2 | 12723.8 | 9993.8 |
| 72.5° | 22103.3 | 22050.1 | 23766.2 | 27586.3 | 32778.4 | 32656.0 | 27835.8 | 16719.5 | 8571.1 | 4508.4 |
| 75° | 18133.0 | 18477.1 | 21135.5 | 27519.4 | 34822.4 | 34806.3 | 26406.1 | 10629.0 | 3545.3 | 1868.5 |
| 77.5° | 9723.6 | 10268.7 | 13721.6 | 20317.9 | 27184.5 | 27593.3 | 18564.9 | 3718.5 | 1522.1 | 1196.4 |
| 80° | 3171.1 | 3646.9 | 5469.2 | 10344.9 | 17664.1 | 17587.9 | 7956.7 | 1459.7 | 1041.6 | 847.6 |
| 82.5° | 1346.5 | 1402.0 | 2443.6 | 4884.9 | 9065.3 | 8924.4 | 2533.7 | 838.4 | 732.2 | 579.7 |
| 85° | 526.6 | 589.0 | 1078.6 | 2258.8 | 3926.4 | 3840.9 | 914.6 | 415.7 | 468.9 | 378.8 |
| 87.5° | 173.2 | 210.2 | 385.7 | 773.7 | 1221.8 | 1177.9 | 224.0 | 143.2 | 203.2 | 173.2 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5693.3 | 0° | 5693.3 | 5693.3 | 5693.3 | 5693.3 | 5693.3 | 5693.3 | 5693.3 | 5693.3 | 5693.3 | 5693.3 |
| 5709.4 | 2.5° | 5741.8 | 5778.7 | 5822.6 | 5887.3 | 5942.7 | 5988.9 | 6037.4 | 6067.4 | 6079.0 | 6113.6 |
| 5718.7 | 5° | 5783.3 | 5864.2 | 5972.7 | 6079.0 | 6182.9 | 6245.3 | 6300.7 | 6328.4 | 6353.8 | 6372.3 |
| 5744.1 | 7.5° | 5852.6 | 5956.6 | 6127.5 | 6266.1 | 6353.8 | 6404.6 | 6441.6 | 6432.3 | 6441.6 | 6446.2 |
| 5771.8 | 10° | 5912.7 | 6058.2 | 6261.4 | 6393.1 | 6460.1 | 6462.4 | 6453.1 | 6420.8 | 6404.6 | 6406.9 |
| 5813.4 | 12.5° | 5984.3 | 6146.0 | 6365.4 | 6476.2 | 6494.7 | 6443.9 | 6404.6 | 6349.2 | 6328.4 | 6319.2 |
| 5875.7 | 15° | 6081.3 | 6266.1 | 6478.5 | 6520.1 | 6473.9 | 6409.3 | 6342.3 | 6252.2 | 6206.0 | 6169.0 |
| 5982.0 | 17.5° | 6199.1 | 6402.3 | 6566.3 | 6536.3 | 6437.0 | 6330.7 | 6222.2 | 6085.9 | 5991.2 | 5951.9 |
| 6127.5 | 20° | 6363.1 | 6545.5 | 6633.3 | 6501.6 | 6351.5 | 6189.8 | 6005.1 | 5838.8 | 5751.0 | 5711.7 |
| 6312.2 | 22.5° | 6561.7 | 6737.2 | 6698.0 | 6441.6 | 6229.1 | 5970.4 | 5739.5 | 5617.0 | 5573.2 | 5545.4 |
| 6550.1 | 25° | 6799.6 | 6949.7 | 6744.1 | 6353.8 | 6028.2 | 5679.4 | 5501.6 | 5462.3 | 5441.5 | 5420.7 |
| 6841.2 | 27.5° | 7109.1 | 7189.9 | 6778.8 | 6224.5 | 5714.0 | 5369.9 | 5305.2 | 5312.2 | 5305.2 | 5270.6 |
| 7245.3 | 30° | 7517.9 | 7501.7 | 6811.1 | 6014.3 | 5353.7 | 5090.4 | 5095.1 | 5125.1 | 5129.7 | 5106.6 |
| 7808.9 | 32.5° | 8056.0 | 7892.0 | 6827.3 | 5741.8 | 5009.6 | 4845.6 | 4850.2 | 4882.6 | 4905.7 | 4866.4 |
| 8545.7 | 35° | 8707.3 | 8347.0 | 6801.9 | 5399.9 | 4744.0 | 4612.4 | 4577.7 | 4586.9 | 4593.9 | 4556.9 |
| 9439.5 | 37.5° | 9467.2 | 8857.5 | 6688.7 | 5021.2 | 4524.6 | 4383.7 | 4309.8 | 4247.4 | 4210.5 | 4175.8 |
| 10451.1 | 40° | 10301.0 | 9414.1 | 6480.8 | 4651.6 | 4279.8 | 4141.2 | 4030.3 | 3912.5 | 3787.8 | 3741.6 |
| 11522.8 | 42.5° | 11174.0 | 9986.9 | 6229.1 | 4298.2 | 3998.0 | 3884.8 | 3767.0 | 3596.1 | 3409.0 | 3314.3 |
| 12636.0 | 45° | 12079.4 | 10573.5 | 5982.0 | 3949.5 | 3709.3 | 3660.8 | 3524.5 | 3319.0 | 3115.7 | 2995.6 |
| 13751.6 | 47.5° | 12966.3 | 11127.8 | 5619.4 | 3598.4 | 3439.1 | 3492.2 | 3385.9 | 3196.5 | 2970.2 | 2780.8 |
| 14857.9 | 50° | 13814.0 | 11647.5 | 5025.8 | 3242.7 | 3219.6 | 3441.4 | 3339.7 | 3067.2 | 2808.5 | 2566.0 |
| 15943.4 | 52.5° | 14654.7 | 12067.9 | 4265.9 | 2919.4 | 3101.8 | 3427.5 | 3279.7 | 2979.4 | 2663.0 | 2409.0 |
| 16964.3 | 55° | 15368.3 | 12285.0 | 3533.7 | 2642.2 | 2930.9 | 3309.7 | 3208.1 | 2875.5 | 2457.5 | 2187.2 |
| 17664.1 | 57.5° | 15774.8 | 12109.4 | 2924.0 | 2369.7 | 2695.3 | 3115.7 | 3085.7 | 2653.8 | 2212.6 | 2004.8 |
| 17800.4 | 60° | 15599.3 | 11398.1 | 2425.1 | 2131.8 | 2471.3 | 2905.5 | 2873.2 | 2434.4 | 2025.6 | 1829.2 |
| 17070.5 | 62.5° | 14631.6 | 10042.3 | 2030.2 | 1923.9 | 2268.1 | 2690.7 | 2660.7 | 2265.8 | 1882.4 | 1693.0 |
| 15132.8 | 65° | 12682.2 | 8169.2 | 1723.0 | 1750.7 | 2062.5 | 2432.1 | 2475.9 | 2124.9 | 1769.2 | 1584.4 |
| 11707.6 | 67.5° | 9672.8 | 5917.3 | 1482.8 | 1600.6 | 1861.6 | 2178.0 | 2305.0 | 2023.2 | 1674.5 | 1499.0 |
| 6774.2 | 70° | 5513.1 | 3360.5 | 1279.5 | 1455.1 | 1683.7 | 1942.4 | 2173.4 | 1942.4 | 1572.9 | 1427.4 |
| 2538.3 | 72.5° | 2090.2 | 1542.8 | 1106.3 | 1309.6 | 1512.8 | 1743.8 | 2027.9 | 1815.4 | 1455.1 | 1346.5 |
| 1311.9 | 75° | 1115.6 | 940.0 | 930.8 | 1138.7 | 1316.5 | 1549.8 | 1845.4 | 1690.7 | 1367.3 | 1422.7 |
| 907.7 | 77.5° | 759.9 | 665.2 | 778.3 | 974.7 | 1101.7 | 1335.0 | 1651.4 | 1501.3 | 1184.8 | 1180.2 |
| 628.2 | 80° | 526.6 | 471.2 | 632.8 | 785.3 | 852.3 | 1122.5 | 1441.2 | 1288.8 | 965.4 | 900.8 |
| 388.0 | 82.5° | 316.4 | 307.2 | 473.5 | 586.6 | 602.8 | 866.1 | 1194.1 | 1080.9 | 789.9 | 688.3 |
| 231.0 | 85° | 173.2 | 182.5 | 302.6 | 344.1 | 351.1 | 605.1 | 935.4 | 836.1 | 607.4 | 510.4 |
| 83.1 | 87.5° | 48.5 | 62.4 | 110.9 | 136.3 | 168.6 | 314.1 | 556.6 | 496.6 | 304.9 | 212.5 |
| 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> |
|-------------|
| 5693.3 |
| 6111.3 |
| 6376.9 |
| 6453.1 |
| 6411.6 |
| 6314.6 |
| 6180.6 |
| 5954.3 |
| 5707.1 |
| 5550.1 |
| 5420.7 |
| 5277.5 |
| 5118.2 |
| 4884.9 |
| 4582.3 |
| 4198.9 |
| 3762.4 |
| 3325.9 |
| 2986.4 |
| 2760.0 |
| 2545.2 |
| 2381.2 |
| 2164.1 |
| 1977.1 |
| 1801.5 |
| 1662.9 |
| 1554.4 |
| 1471.2 |
| 1408.9 |
| 1328.0 |
| 1468.9 |
| 1087.8 |
| 861.5 |
| 692.9 |
| 515.0 |
| 212.5 |
| 0.0 |

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