

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: P943189

Luminaire Tested: **GALN-SB7C-750-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943189  
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-SB7C-750-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

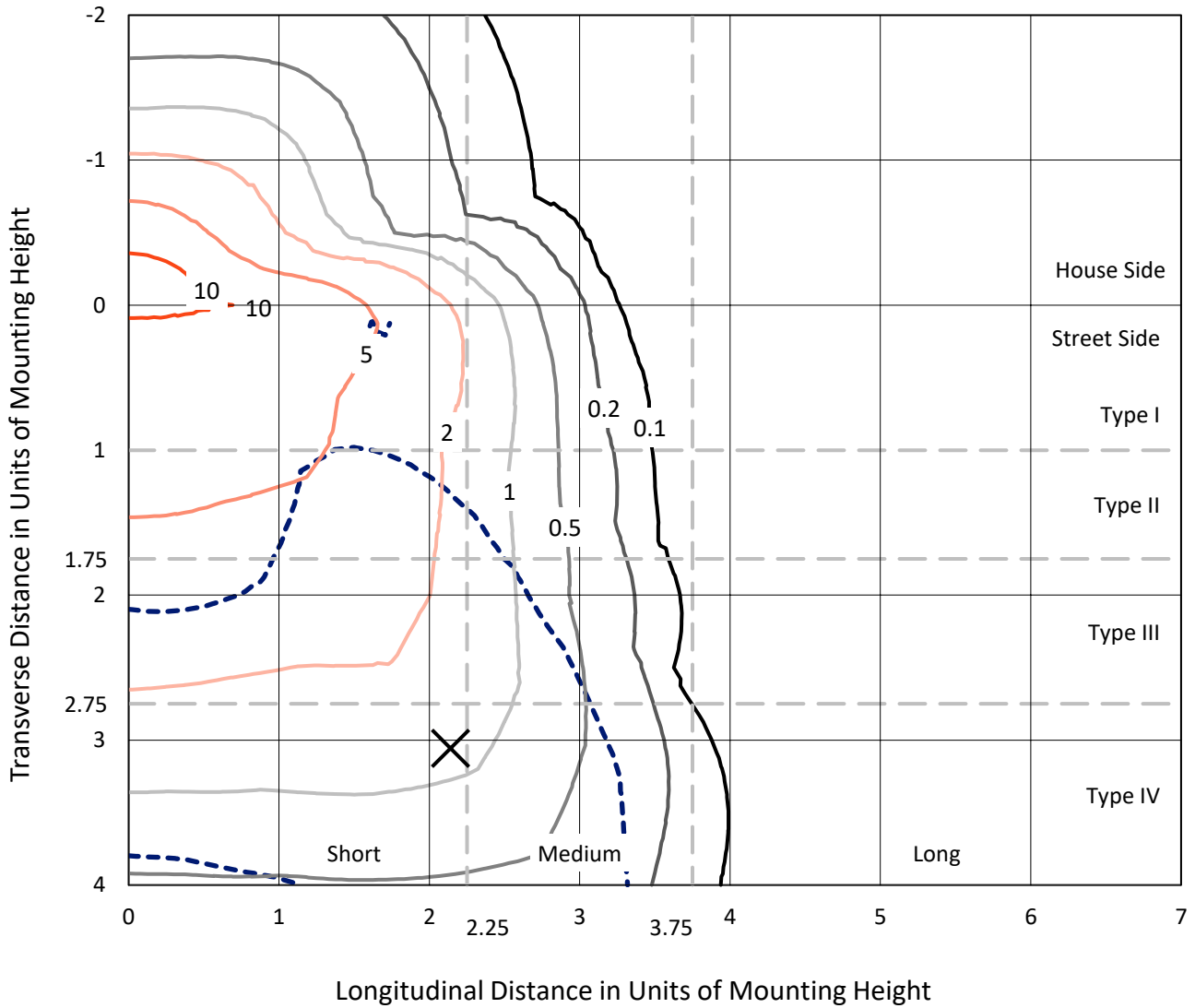
Lumens per Lamp: N/A  
Luminaire Lumens: 55692 lumens  
Efficiency: N/A  
Efficacy: 158.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): 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

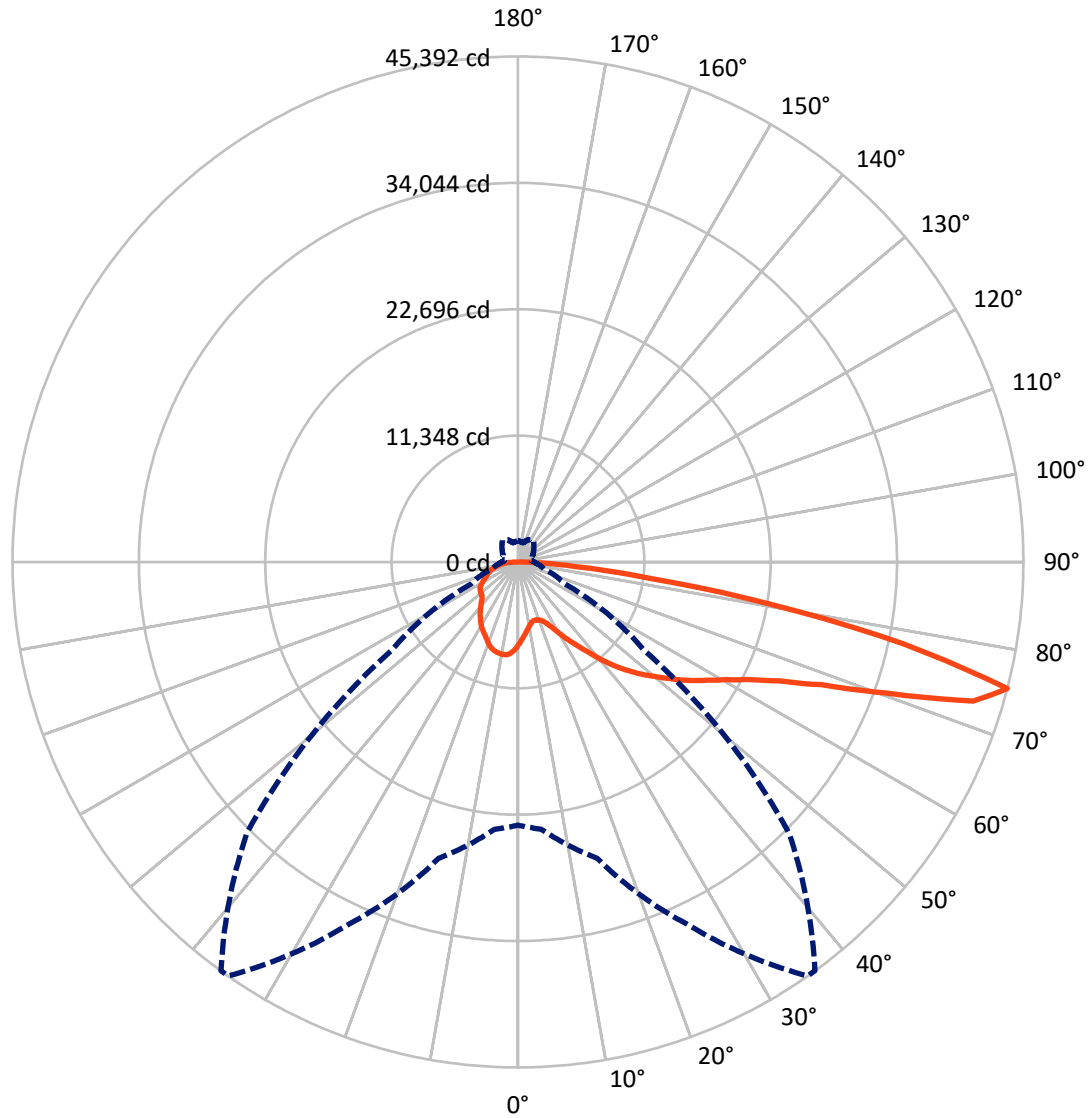
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13253.3  | 0.0    | 13253.3 |
|                    | % Fixture | 23.8     | 0.0    | 23.8    |
| <b>Street Side</b> | Lumens    | 42438.7  | 0.0    | 42438.7 |
|                    | % Fixture | 76.2     | 0.0    | 76.2    |
| <b>Total</b>       | Lumens    | 55692.0  | 0.0    | 55692.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 702.6   | 1.3       |
| 10°-20°   | 2026.8  | 3.6       |
| 20°-30°   | 3403.4  | 6.1       |
| 30°-40°   | 5289.4  | 9.5       |
| 40°-50°   | 7850.9  | 14.1      |
| 50°-60°   | 10838.7 | 19.5      |
| 60°-70°   | 13149.8 | 23.6      |
| 70°-80°   | 10867.3 | 19.5      |
| 80°-90°   | 1563.1  | 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°    | 55692.0 | 100.0     |
| 0°-180°   | 55692.0 | 100.0     |

**Coefficient of Utilization**



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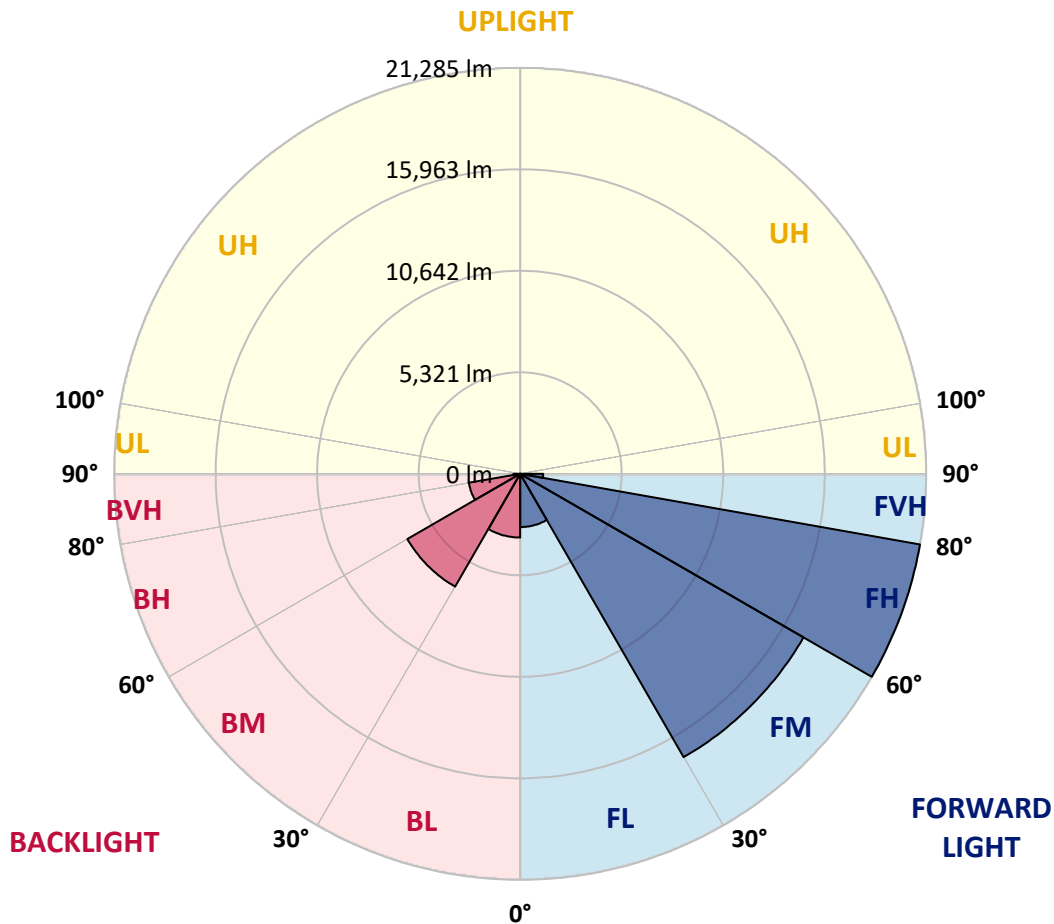
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2792.8  | 5.0       |                         |      |         |
| FM (30°-60°)   | 17150.1 | 30.8      |                         |      |         |
| FH (60°-80°)   | 21284.7 | 38.2      |                         |      | G5      |
| FVH (80°-90°)  | 1211.1  | 2.2       |                         |      | G5      |
| BL (0°-30°)    | 3340.0  | 6.0       | B4/5000                 |      |         |
| BM (30°-60°)   | 6828.9  | 12.3      | B4/8500                 |      |         |
| BH (60°-80°)   | 2732.4  | 4.9       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 352.0   | 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°    | 7421.3  | 7421.3  | 7421.3  | 7421.3  | 7421.3  | 7421.3  | 7421.3  | 7421.3  | 7421.3  | 7421.3  |
| 2.5°  | 6843.3  | 6885.4  | 6903.5  | 6894.5  | 6939.6  | 6933.6  | 6996.8  | 7075.1  | 7183.5  | 7288.9  |
| 5°    | 6316.4  | 6361.6  | 6400.7  | 6436.8  | 6524.2  | 6551.2  | 6650.6  | 6801.1  | 6999.8  | 7201.6  |
| 7.5°  | 5825.7  | 5864.8  | 5925.0  | 5991.3  | 6138.8  | 6165.9  | 6331.5  | 6566.3  | 6843.3  | 7138.3  |
| 10°   | 5425.3  | 5464.4  | 5527.6  | 5602.9  | 5786.5  | 5819.7  | 6030.4  | 6343.5  | 6704.8  | 7078.1  |
| 12.5° | 5253.6  | 5265.7  | 5301.8  | 5377.1  | 5536.6  | 5557.7  | 5789.5  | 6147.8  | 6569.3  | 7033.0  |
| 15°   | 5244.6  | 5268.7  | 5271.7  | 5310.8  | 5443.3  | 5452.3  | 5666.1  | 6021.4  | 6485.0  | 7023.9  |
| 17.5° | 5334.9  | 5353.0  | 5325.9  | 5350.0  | 5461.4  | 5476.4  | 5645.0  | 5961.2  | 6457.9  | 7063.1  |
| 20°   | 5575.8  | 5590.8  | 5509.6  | 5476.4  | 5557.7  | 5569.8  | 5735.4  | 6000.3  | 6485.0  | 7144.4  |
| 22.5° | 6087.6  | 6096.6  | 5897.9  | 5762.4  | 5768.5  | 5774.5  | 5919.0  | 6159.9  | 6590.4  | 7291.9  |
| 25°   | 6885.4  | 6879.4  | 6563.3  | 6301.4  | 6150.8  | 6117.7  | 6214.1  | 6418.8  | 6768.0  | 7487.6  |
| 27.5° | 7818.7  | 7773.6  | 7457.5  | 7066.1  | 6737.9  | 6689.7  | 6668.7  | 6756.0  | 7020.9  | 7746.5  |
| 30°   | 8872.5  | 8830.3  | 8490.1  | 7978.3  | 7523.7  | 7445.4  | 7246.7  | 7201.6  | 7397.3  | 8098.7  |
| 32.5° | 10028.6 | 10001.5 | 9595.0  | 8974.8  | 8366.7  | 8276.4  | 7942.2  | 7821.8  | 7975.3  | 8631.6  |
| 35°   | 10998.0 | 10973.9 | 10636.7 | 9998.5  | 9254.8  | 9143.4  | 8803.2  | 8667.8  | 8746.0  | 9315.1  |
| 37.5° | 11874.1 | 11862.1 | 11573.1 | 11070.3 | 10302.6 | 10167.1 | 9784.7  | 9739.6  | 9724.5  | 10215.3 |
| 40°   | 12687.0 | 12656.9 | 12355.8 | 12090.9 | 11521.9 | 11398.4 | 11061.3 | 11022.1 | 10907.7 | 11323.2 |
| 42.5° | 13587.2 | 13508.9 | 13072.4 | 12949.0 | 12795.4 | 12693.0 | 12491.3 | 12497.3 | 12244.5 | 12572.6 |
| 45°   | 14321.8 | 14276.7 | 13828.1 | 13755.8 | 13921.4 | 13879.3 | 14053.9 | 14099.0 | 13608.3 | 13882.3 |
| 47.5° | 15110.6 | 15068.5 | 14689.1 | 14637.9 | 15086.5 | 15098.6 | 15715.8 | 15730.8 | 14939.0 | 15243.1 |
| 50°   | 16083.1 | 16022.9 | 15646.5 | 15709.7 | 16212.5 | 16257.7 | 17386.7 | 17284.3 | 16164.4 | 16625.0 |
| 52.5° | 16724.3 | 16760.5 | 16679.2 | 16781.6 | 17468.0 | 17510.1 | 19030.5 | 18768.6 | 17377.7 | 17988.8 |
| 55°   | 17197.0 | 17269.3 | 17522.2 | 17757.0 | 18792.7 | 18834.8 | 20581.0 | 20180.6 | 18383.2 | 19253.3 |
| 57.5° | 17805.2 | 17702.8 | 18175.5 | 18633.1 | 20051.2 | 20162.5 | 22089.4 | 21541.4 | 19274.4 | 20343.2 |
| 60°   | 18678.3 | 18606.0 | 18973.3 | 19650.7 | 21460.2 | 21637.8 | 23685.1 | 22766.8 | 19927.7 | 21207.3 |
| 62.5° | 20448.6 | 20267.9 | 20325.1 | 20924.3 | 23236.5 | 23471.3 | 25485.4 | 23835.6 | 20252.9 | 21544.5 |
| 65°   | 23095.0 | 22784.9 | 22495.8 | 22911.3 | 25738.3 | 25970.2 | 27517.7 | 24675.6 | 20132.4 | 20891.1 |
| 67.5° | 26427.8 | 26120.7 | 25765.4 | 26156.8 | 29423.4 | 29607.1 | 30025.6 | 25148.2 | 19184.1 | 18374.2 |
| 70°   | 29176.5 | 29062.1 | 29486.6 | 31097.4 | 35309.3 | 35315.3 | 33241.0 | 24756.9 | 16585.9 | 13027.2 |
| 72.5° | 28812.2 | 28743.0 | 30979.9 | 35959.6 | 42727.6 | 42568.1 | 36284.8 | 21794.3 | 11172.6 | 5876.9  |
| 75°   | 23636.9 | 24085.5 | 27550.8 | 35872.3 | 45392.1 | 45371.0 | 34421.1 | 13855.2 | 4621.4  | 2435.6  |
| 77.5° | 12675.0 | 13385.5 | 17886.5 | 26485.0 | 35435.7 | 35968.6 | 24199.9 | 4847.2  | 1984.0  | 1559.5  |
| 80°   | 4133.7  | 4753.9  | 7129.3  | 13484.9 | 23025.7 | 22926.4 | 10371.8 | 1902.8  | 1357.8  | 1104.9  |
| 82.5° | 1755.2  | 1827.5  | 3185.3  | 6367.6  | 11816.9 | 11633.3 | 3302.7  | 1092.9  | 954.4   | 755.7   |
| 85°   | 686.4   | 767.7   | 1406.0  | 2944.4  | 5118.2  | 5006.8  | 1192.2  | 541.9   | 611.2   | 493.8   |
| 87.5° | 225.8   | 274.0   | 502.8   | 1008.6  | 1592.7  | 1535.4  | 292.0   | 186.7   | 264.9   | 225.8   |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7421.3  | 0°    | 7421.3  | 7421.3  | 7421.3 | 7421.3 | 7421.3 | 7421.3 | 7421.3 | 7421.3 | 7421.3 | 7421.3 |
| 7442.4  | 2.5°  | 7484.6  | 7532.7  | 7589.9 | 7674.2 | 7746.5 | 7806.7 | 7869.9 | 7909.1 | 7924.1 | 7969.3 |
| 7454.5  | 5°    | 7538.8  | 7644.1  | 7785.6 | 7924.1 | 8059.6 | 8140.9 | 8213.1 | 8249.3 | 8282.4 | 8306.5 |
| 7487.6  | 7.5°  | 7629.1  | 7764.6  | 7987.3 | 8168.0 | 8282.4 | 8348.6 | 8396.8 | 8384.8 | 8396.8 | 8402.8 |
| 7523.7  | 10°   | 7707.4  | 7897.0  | 8162.0 | 8333.6 | 8420.9 | 8423.9 | 8411.9 | 8369.7 | 8348.6 | 8351.6 |
| 7577.9  | 12.5° | 7800.7  | 8011.4  | 8297.4 | 8442.0 | 8466.0 | 8399.8 | 8348.6 | 8276.4 | 8249.3 | 8237.2 |
| 7659.2  | 15°   | 7927.1  | 8168.0  | 8445.0 | 8499.2 | 8438.9 | 8354.6 | 8267.3 | 8149.9 | 8089.7 | 8041.5 |
| 7797.7  | 17.5° | 8080.7  | 8345.6  | 8559.4 | 8520.2 | 8390.8 | 8252.3 | 8110.8 | 7933.2 | 7809.7 | 7758.5 |
| 7987.3  | 20°   | 8294.4  | 8532.3  | 8646.7 | 8475.1 | 8279.4 | 8068.6 | 7827.8 | 7611.0 | 7496.6 | 7445.4 |
| 8228.2  | 22.5° | 8553.4  | 8782.2  | 8731.0 | 8396.8 | 8119.8 | 7782.6 | 7481.5 | 7322.0 | 7264.8 | 7228.7 |
| 8538.3  | 25°   | 8863.5  | 9059.1  | 8791.2 | 8282.4 | 7857.9 | 7403.3 | 7171.4 | 7120.3 | 7093.2 | 7066.1 |
| 8917.6  | 27.5° | 9266.9  | 9372.3  | 8836.4 | 8113.8 | 7448.4 | 6999.8 | 6915.5 | 6924.6 | 6915.5 | 6870.4 |
| 9444.5  | 30°   | 9799.8  | 9778.7  | 8878.5 | 7839.8 | 6978.8 | 6635.5 | 6641.6 | 6680.7 | 6686.7 | 6656.6 |
| 10179.1 | 32.5° | 10501.3 | 10287.5 | 8899.6 | 7484.6 | 6530.2 | 6316.4 | 6322.4 | 6364.6 | 6394.7 | 6343.5 |
| 11139.5 | 35°   | 11350.3 | 10880.6 | 8866.5 | 7039.0 | 6183.9 | 6012.3 | 5967.2 | 5979.2 | 5988.3 | 5940.1 |
| 12304.7 | 37.5° | 12340.8 | 11546.0 | 8718.9 | 6545.2 | 5897.9 | 5714.3 | 5617.9 | 5536.6 | 5488.5 | 5443.3 |
| 13623.3 | 40°   | 13427.7 | 12271.5 | 8448.0 | 6063.5 | 5578.8 | 5398.2 | 5253.6 | 5100.1 | 4937.5 | 4877.3 |
| 15020.3 | 42.5° | 14565.7 | 13018.2 | 8119.8 | 5602.9 | 5211.5 | 5064.0 | 4910.4 | 4687.6 | 4443.8 | 4320.3 |
| 16471.5 | 45°   | 15745.9 | 13782.9 | 7797.7 | 5148.3 | 4835.2 | 4771.9 | 4594.3 | 4326.4 | 4061.4 | 3904.9 |
| 17925.6 | 47.5° | 16902.0 | 14505.5 | 7325.0 | 4690.6 | 4482.9 | 4552.2 | 4413.7 | 4166.8 | 3871.7 | 3624.9 |
| 19367.7 | 50°   | 18006.9 | 15182.9 | 6551.2 | 4227.0 | 4196.9 | 4485.9 | 4353.4 | 3998.2 | 3661.0 | 3344.9 |
| 20782.8 | 52.5° | 19102.8 | 15730.8 | 5560.7 | 3805.5 | 4043.3 | 4467.9 | 4275.2 | 3883.8 | 3471.3 | 3140.1 |
| 22113.5 | 55°   | 20033.1 | 16013.8 | 4606.3 | 3444.2 | 3820.6 | 4314.3 | 4181.8 | 3748.3 | 3203.4 | 2851.1 |
| 23025.7 | 57.5° | 20563.0 | 15785.0 | 3811.5 | 3089.0 | 3513.5 | 4061.4 | 4022.3 | 3459.3 | 2884.2 | 2613.3 |
| 23203.3 | 60°   | 20334.2 | 14857.7 | 3161.2 | 2778.9 | 3221.4 | 3787.4 | 3745.3 | 3173.3 | 2640.4 | 2384.5 |
| 22252.0 | 62.5° | 19072.7 | 13090.5 | 2646.4 | 2507.9 | 2956.5 | 3507.4 | 3468.3 | 2953.5 | 2453.7 | 2206.8 |
| 19726.0 | 65°   | 16531.7 | 10648.8 | 2246.0 | 2282.1 | 2688.5 | 3170.3 | 3227.5 | 2769.8 | 2306.2 | 2065.3 |
| 15261.2 | 67.5° | 12608.7 | 7713.4  | 1932.9 | 2086.4 | 2426.6 | 2839.1 | 3004.7 | 2637.4 | 2182.7 | 1953.9 |
| 8830.3  | 70°   | 7186.5  | 4380.5  | 1667.9 | 1896.7 | 2194.8 | 2532.0 | 2833.1 | 2532.0 | 2050.3 | 1860.6 |
| 3308.7  | 72.5° | 2724.7  | 2011.1  | 1442.1 | 1707.1 | 1972.0 | 2273.1 | 2643.4 | 2366.4 | 1896.7 | 1755.2 |
| 1710.1  | 75°   | 1454.2  | 1225.3  | 1213.3 | 1484.3 | 1716.1 | 2020.2 | 2405.5 | 2203.8 | 1782.3 | 1854.6 |
| 1183.2  | 77.5° | 990.5   | 867.1   | 1014.6 | 1270.5 | 1436.1 | 1740.2 | 2152.6 | 1956.9 | 1544.5 | 1538.5 |
| 818.9   | 80°   | 686.4   | 614.2   | 824.9  | 1023.6 | 1110.9 | 1463.2 | 1878.7 | 1680.0 | 1258.5 | 1174.2 |
| 505.8   | 82.5° | 412.5   | 400.4   | 617.2  | 764.7  | 785.8  | 1129.0 | 1556.5 | 1409.0 | 1029.7 | 897.2  |
| 301.1   | 85°   | 225.8   | 237.8   | 394.4  | 448.6  | 457.6  | 788.8  | 1219.3 | 1089.9 | 791.8  | 665.4  |
| 108.4   | 87.5° | 63.2    | 81.3    | 144.5  | 177.6  | 219.8  | 409.5  | 725.6  | 647.3  | 397.4  | 277.0  |
| 0.0     | 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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| <u>180°</u>   |
|---------------|
| 7421.3        |
| 7966.3        |
| 8312.5        |
| 8411.9        |
| 8357.7        |
| 8231.2        |
| 8056.6        |
| 7761.5        |
| 7439.4        |
| 7234.7        |
| 7066.1        |
| 6879.4        |
| 6671.7        |
| 6367.6        |
| 5973.2        |
| 5473.4        |
| 4904.4        |
| 4335.4        |
| 3892.8        |
| 3597.8        |
| 3317.8        |
| 3104.0        |
| 2821.0        |
| 2577.1        |
| 2348.3        |
| 2167.7        |
| 2026.2        |
| 1917.8        |
| 1836.5        |
| 1731.1        |
| <i>1914.8</i> |
| 1418.0        |
| 1123.0        |
| 903.2         |
| 671.4         |
| 277.0         |
| 0.0           |

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