

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: P955621

Luminaire Tested: **GALN-SB8C-735-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955621  
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-SB8C-735-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

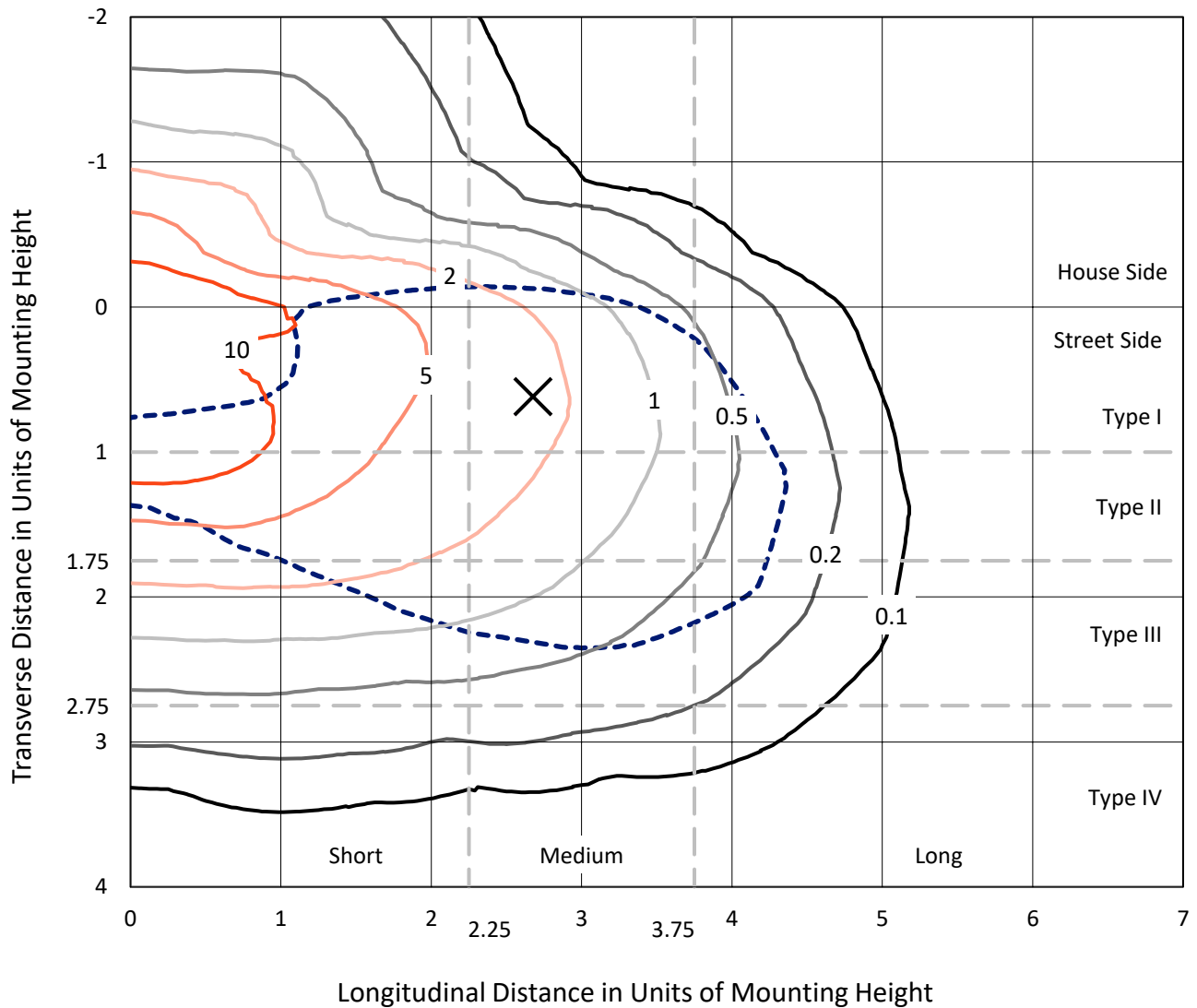
Lumens per Lamp: N/A  
Luminaire Lumens: 62169 lumens  
Efficiency: N/A  
Efficacy: 155.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

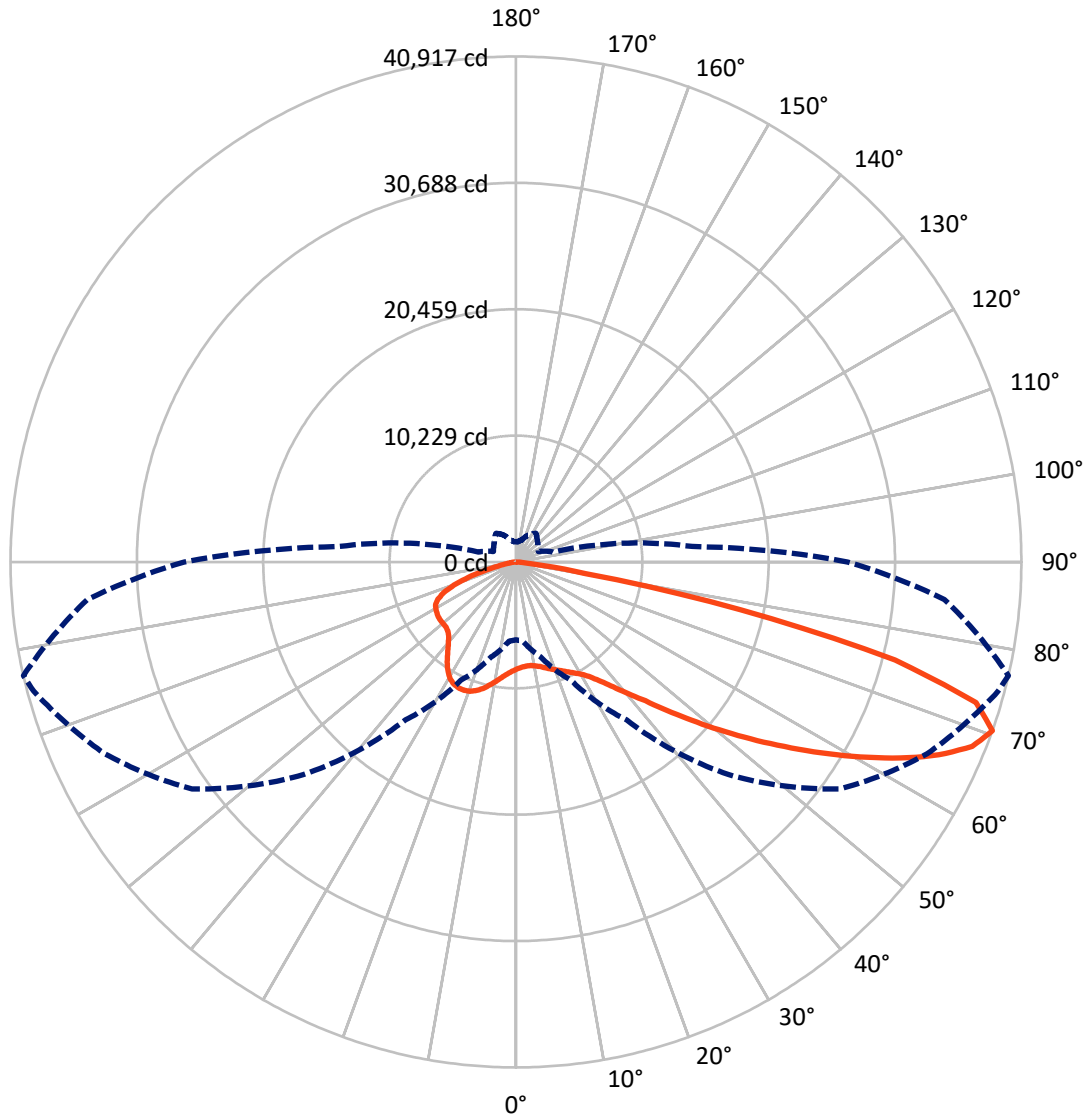
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13614.0  | 0.0    | 13614.0 |
|                    | % Fixture | 21.9     | 0.0    | 21.9    |
| <b>Street Side</b> | Lumens    | 48554.9  | 0.0    | 48554.9 |
|                    | % Fixture | 78.1     | 0.0    | 78.1    |
| <b>Total</b>       | Lumens    | 62169.0  | 0.0    | 62169.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 827.2   | 1.3       |
| 10°-20°   | 2387.3  | 3.8       |
| 20°-30°   | 4082.7  | 6.6       |
| 30°-40°   | 6565.4  | 10.6      |
| 40°-50°   | 10250.3 | 16.5      |
| 50°-60°   | 13691.9 | 22.0      |
| 60°-70°   | 14593.4 | 23.5      |
| 70°-80°   | 8983.6  | 14.5      |
| 80°-90°   | 787.2   | 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°    | 62169.0 | 100.0     |
| 0°-180°   | 62169.0 | 100.0     |



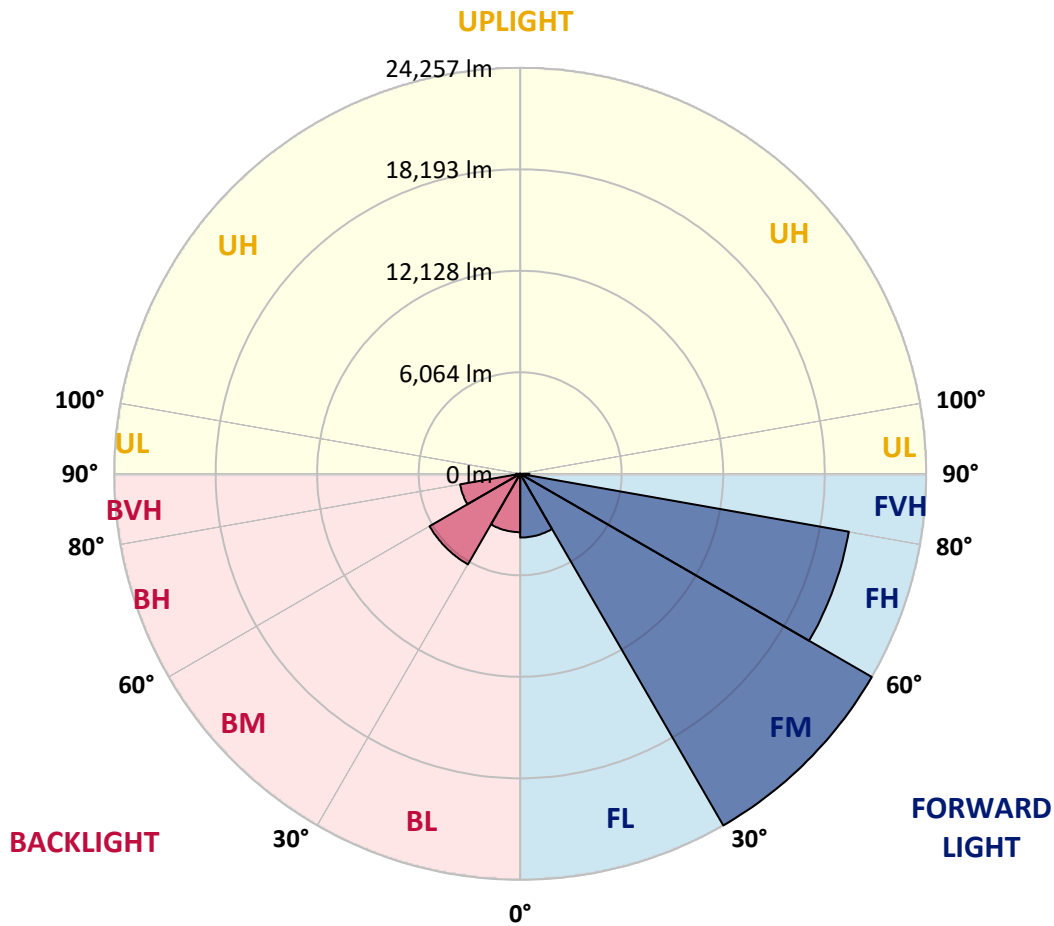
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3808.9  | 6.1       |                         |      |         |
| FM (30°-60°)   | 24257.0 | 39.0      |                         |      |         |
| FH (60°-80°)   | 19938.6 | 32.1      |                         |      | G5      |
| FVH (80°-90°)  | 550.5   | 0.9       |                         |      | G4/750  |
| BL (0°-30°)    | 3488.3  | 5.6       | B4/5000                 |      |         |
| BM (30°-60°)   | 6250.5  | 10.1      | B4/8500                 |      |         |
| BH (60°-80°)   | 3638.4  | 5.9       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 236.8   | 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°    | 8673.1  | 8673.1  | 8673.1  | 8673.1  | 8673.1  | 8673.1  | 8673.1  | 8673.1  | 8673.1  | 8673.1  |
| 2.5°  | 7995.0  | 7991.8  | 8033.2  | 8045.9  | 8122.3  | 8176.4  | 8278.3  | 8386.6  | 8526.7  | 8542.6  |
| 5°    | 7533.3  | 7533.3  | 7581.0  | 7632.0  | 7730.7  | 7838.9  | 7995.0  | 8182.8  | 8424.8  | 8463.0  |
| 7.5°  | 7141.7  | 7167.1  | 7208.5  | 7307.2  | 7421.8  | 7577.9  | 7816.7  | 8084.1  | 8402.5  | 8463.0  |
| 10°   | 6826.4  | 6855.1  | 6906.0  | 6985.6  | 7157.6  | 7374.1  | 7686.1  | 8030.0  | 8456.6  | 8552.2  |
| 12.5° | 6727.7  | 6756.4  | 6785.0  | 6845.5  | 7004.7  | 7259.5  | 7632.0  | 8055.5  | 8587.2  | 8682.7  |
| 15°   | 6957.0  | 6992.0  | 6969.7  | 6953.8  | 7036.6  | 7269.0  | 7657.5  | 8147.8  | 8749.6  | 8886.5  |
| 17.5° | 7485.5  | 7498.3  | 7447.3  | 7297.7  | 7284.9  | 7409.1  | 7778.4  | 8275.1  | 8953.3  | 9103.0  |
| 20°   | 8338.8  | 8316.5  | 8211.5  | 7915.4  | 7746.6  | 7721.1  | 7985.4  | 8466.2  | 9163.5  | 9322.7  |
| 22.5° | 9497.8  | 9472.3  | 9262.2  | 8794.1  | 8418.4  | 8170.1  | 8284.7  | 8714.5  | 9399.1  | 9577.4  |
| 25°   | 10943.3 | 10908.3 | 10599.4 | 9962.7  | 9380.0  | 8765.5  | 8692.2  | 9042.5  | 9688.8  | 9854.4  |
| 27.5° | 12630.8 | 12602.2 | 12267.8 | 11427.3 | 10586.7 | 9580.6  | 9198.5  | 9427.7  | 9991.3  | 10179.2 |
| 30°   | 14445.7 | 14528.5 | 13936.3 | 13032.0 | 11968.6 | 10644.0 | 9879.9  | 9902.2  | 10382.9 | 10551.7 |
| 32.5° | 16578.9 | 16722.2 | 16009.0 | 14862.8 | 13410.9 | 11799.8 | 10739.5 | 10564.4 | 10952.9 | 11093.0 |
| 35°   | 18693.1 | 18855.5 | 18263.3 | 16996.0 | 15324.5 | 13162.5 | 11637.4 | 11325.4 | 11710.7 | 11863.5 |
| 37.5° | 20520.7 | 20737.2 | 20431.6 | 19329.9 | 17371.8 | 14805.5 | 12809.1 | 12220.1 | 12643.6 | 12834.6 |
| 40°   | 21963.0 | 22294.2 | 22271.9 | 21584.2 | 19785.2 | 16798.6 | 14296.0 | 13324.9 | 13802.5 | 14009.5 |
| 42.5° | 23134.7 | 23421.3 | 23669.7 | 23634.6 | 22303.7 | 19062.4 | 16044.0 | 14760.9 | 15123.9 | 15362.7 |
| 45°   | 23943.5 | 24249.1 | 24784.0 | 25360.3 | 24726.7 | 21485.5 | 18046.8 | 16464.3 | 16795.5 | 17155.2 |
| 47.5° | 24666.2 | 25013.3 | 25707.4 | 26621.2 | 26783.6 | 23918.0 | 20240.5 | 18447.9 | 18750.4 | 19122.9 |
| 50°   | 24729.9 | 25029.2 | 26105.4 | 27401.3 | 28245.0 | 26255.0 | 22596.7 | 20673.5 | 20956.9 | 21354.9 |
| 52.5° | 23192.1 | 23663.3 | 25541.8 | 27379.0 | 28916.8 | 28210.0 | 24936.9 | 22988.3 | 23306.7 | 23784.3 |
| 55°   | 18002.2 | 18693.1 | 23889.3 | 26525.7 | 28678.0 | 29474.0 | 27162.5 | 25449.5 | 25857.0 | 26356.9 |
| 57.5° | 15505.9 | 15808.4 | 18963.7 | 24971.9 | 27589.1 | 29802.0 | 29041.0 | 27936.2 | 28592.1 | 29139.7 |
| 60°   | 13936.3 | 14187.8 | 16053.6 | 22555.3 | 26156.3 | 29283.0 | 30492.9 | 30254.1 | 31387.6 | 32040.3 |
| 62.5° | 12255.1 | 12493.9 | 14191.0 | 18833.2 | 24322.4 | 28420.1 | 31409.9 | 32393.7 | 34253.2 | 34966.4 |
| 65°   | 10586.7 | 10790.5 | 12417.5 | 15824.3 | 21991.7 | 27557.3 | 31884.3 | 34243.6 | 36905.4 | 37644.1 |
| 67.5° | 8727.3  | 8896.0  | 10433.9 | 13350.4 | 19158.0 | 26376.0 | 32119.9 | 35698.7 | 39213.8 | 39847.4 |
| 70°   | 6297.9  | 6428.4  | 8017.2  | 10558.1 | 15601.5 | 24344.7 | 32024.4 | 36730.3 | 40411.0 | 40917.2 |
| 72.5° | 2977.0  | 3094.8  | 4960.6  | 6855.1  | 11019.7 | 20390.2 | 30091.7 | 35912.0 | 39194.7 | 38943.2 |
| 75°   | 1588.8  | 1690.7  | 2849.7  | 3760.3  | 5820.3  | 13977.6 | 24624.8 | 30935.5 | 32912.7 | 31690.1 |
| 77.5° | 1076.2  | 1155.8  | 1763.9  | 2257.4  | 2658.6  | 6635.4  | 15827.5 | 21418.6 | 20606.7 | 18588.0 |
| 80°   | 853.3   | 936.1   | 1445.5  | 1528.3  | 1286.3  | 2397.5  | 6539.9  | 9914.9  | 7122.5  | 5696.1  |
| 82.5° | 655.9   | 748.2   | 1216.3  | 1108.0  | 700.5   | 983.8   | 1904.0  | 3136.2  | 1824.4  | 1388.2  |
| 85°   | 401.2   | 499.9   | 955.2   | 706.8   | 394.8   | 448.9   | 646.3   | 872.4   | 557.2   | 464.9   |
| 87.5° | 203.8   | 286.6   | 484.0   | 257.9   | 178.3   | 105.1   | 171.9   | 171.9   | 146.5   | 127.4   |
| 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°   |
|---------|-------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| 8673.1  | 0°    | 8673.1  | 8673.1  | 8673.1  | 8673.1  | 8673.1 | 8673.1 | 8673.1 | 8673.1 | 8673.1 | 8673.1 |
| 8628.6  | 2.5°  | 8705.0  | 8768.7  | 8876.9  | 8978.8  | 9058.4 | 9134.8 | 9211.2 | 9252.6 | 9265.4 | 9316.3 |
| 8676.3  | 5°    | 8806.9  | 8924.7  | 9134.8  | 9332.2  | 9456.4 | 9532.8 | 9586.9 | 9618.8 | 9625.2 | 9641.1 |
| 8806.9  | 7.5°  | 8994.7  | 9182.6  | 9475.5  | 9672.9  | 9765.2 | 9758.9 | 9736.6 | 9657.0 | 9625.2 | 9596.5 |
| 8997.9  | 10°   | 9259.0  | 9507.3  | 9867.1  | 10004.0 | 9946.7 | 9793.9 | 9596.5 | 9364.1 | 9255.8 | 9150.7 |
| 9259.0  | 12.5° | 9586.9  | 9902.2  | 10255.6 | 10249.2 | 9965.8 | 9574.2 | 9115.7 | 8759.1 | 8533.0 | 8370.7 |
| 9580.6  | 15°   | 9984.9  | 10347.9 | 10618.6 | 10402.0 | 9781.2 | 9077.5 | 8405.7 | 7940.8 | 7737.1 | 7558.8 |
| 9905.3  | 17.5° | 10395.7 | 10784.1 | 10908.3 | 10354.3 | 9316.3 | 8342.0 | 7581.0 | 7214.9 | 7014.3 | 6918.8 |
| 10255.6 | 20°   | 10796.9 | 11182.1 | 11080.2 | 10080.5 | 8609.5 | 7507.8 | 6829.6 | 6629.0 | 6587.6 | 6609.9 |
| 10596.3 | 22.5° | 11220.3 | 11564.2 | 11115.2 | 9551.9  | 7708.4 | 6654.5 | 6282.0 | 6288.3 | 6380.7 | 6447.5 |
| 10952.9 | 25°   | 11653.3 | 11885.8 | 11022.9 | 8787.8  | 6740.5 | 6027.3 | 5934.9 | 6036.8 | 6218.3 | 6348.8 |
| 11354.0 | 27.5° | 12070.4 | 12172.3 | 10822.3 | 7842.1  | 5909.5 | 5578.3 | 5594.2 | 5804.4 | 6078.2 | 6259.7 |
| 11841.2 | 30°   | 12541.7 | 12427.0 | 10437.1 | 6778.7  | 5333.2 | 5193.1 | 5326.8 | 5572.0 | 5845.8 | 6008.2 |
| 12455.7 | 32.5° | 13073.4 | 12646.7 | 9825.7  | 5794.8  | 4925.6 | 4884.2 | 5103.9 | 5263.1 | 5384.1 | 5431.9 |
| 13270.8 | 35°   | 13735.7 | 12955.6 | 9042.5  | 5103.9  | 4559.4 | 4658.2 | 4868.3 | 4788.7 | 4740.9 | 4715.5 |
| 14366.1 | 37.5° | 14595.3 | 13372.7 | 8125.5  | 4655.0  | 4263.3 | 4495.8 | 4581.7 | 4333.4 | 4145.5 | 4053.2 |
| 15693.8 | 40°   | 15630.1 | 13984.0 | 7243.5  | 4307.9  | 4075.5 | 4355.7 | 4206.0 | 3906.7 | 3667.9 | 3537.4 |
| 17187.1 | 42.5° | 16779.5 | 14624.0 | 6501.7  | 4046.8  | 3970.4 | 4241.1 | 3929.0 | 3572.4 | 3187.2 | 3145.8 |
| 18966.9 | 45°   | 17986.3 | 15283.1 | 5995.4  | 3846.2  | 3919.5 | 4142.3 | 3769.8 | 3193.5 | 2919.7 | 3088.5 |
| 20753.1 | 47.5° | 19193.0 | 15888.0 | 5689.8  | 3696.6  | 3894.0 | 4030.9 | 3629.7 | 2983.4 | 2789.2 | 3034.3 |
| 22666.7 | 50°   | 20536.6 | 16429.3 | 5552.8  | 3588.3  | 3865.3 | 3986.3 | 3419.6 | 2929.3 | 2652.2 | 2814.6 |
| 24647.1 | 52.5° | 21870.7 | 16849.6 | 5451.0  | 3480.1  | 3824.0 | 3951.3 | 3317.7 | 2865.6 | 2486.7 | 2496.2 |
| 26640.3 | 55°   | 23201.6 | 17123.4 | 5339.5  | 3336.8  | 3731.6 | 3874.9 | 3308.1 | 2795.5 | 2362.5 | 2317.9 |
| 28748.1 | 57.5° | 24621.7 | 17279.4 | 5202.6  | 3177.6  | 3572.4 | 3680.7 | 3298.6 | 2741.4 | 2324.3 | 2251.1 |
| 30903.6 | 60°   | 26067.2 | 17508.7 | 5024.3  | 2983.4  | 3359.1 | 3448.2 | 3276.3 | 2722.3 | 2302.0 | 2177.8 |
| 32935.0 | 62.5° | 27363.1 | 17588.3 | 4811.0  | 2798.7  | 3085.3 | 3219.0 | 3228.5 | 2706.4 | 2241.5 | 2028.2 |
| 34622.5 | 65°   | 28213.2 | 17244.4 | 4438.5  | 2588.6  | 2789.2 | 2983.4 | 3136.2 | 2652.2 | 2133.3 | 1919.9 |
| 35456.7 | 67.5° | 28178.2 | 16263.7 | 3855.8  | 2317.9  | 2502.6 | 2722.3 | 3002.5 | 2559.9 | 2002.7 | 1786.2 |
| 34826.3 | 70°   | 26866.4 | 14327.9 | 3117.1  | 2002.7  | 2187.4 | 2442.1 | 2830.6 | 2423.0 | 1846.7 | 1639.7 |
| 30967.3 | 72.5° | 23042.4 | 11214.0 | 2263.8  | 1633.4  | 1821.2 | 2152.4 | 2607.7 | 2257.4 | 1687.5 | 1509.2 |
| 22886.4 | 75°   | 16461.1 | 7097.1  | 1534.7  | 1254.5  | 1416.9 | 1824.4 | 2330.7 | 2063.2 | 1541.0 | 1515.6 |
| 11462.3 | 77.5° | 8408.9  | 3390.9  | 1015.7  | 917.0   | 987.0  | 1439.2 | 1958.1 | 1843.5 | 1563.3 | 1251.3 |
| 3260.4  | 80°   | 2735.0  | 1251.3  | 640.0   | 624.1   | 655.9  | 958.4  | 1515.6 | 1512.4 | 1184.4 | 850.1  |
| 789.6   | 82.5° | 872.4   | 538.1   | 417.1   | 401.2   | 385.3  | 601.8  | 1057.1 | 1197.2 | 799.2  | 538.1  |
| 283.4   | 85°   | 347.1   | 321.6   | 245.2   | 226.1   | 162.4  | 283.4  | 554.0  | 796.0  | 595.4  | 388.4  |
| 73.2    | 87.5° | 127.4   | 127.4   | 66.9    | 47.8    | 35.0   | 95.5   | 149.6  | 238.8  | 340.7  | 200.6  |
| 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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180°  
8673.1  
9345.0  
9666.5  
9602.9  
9118.9  
8332.5  
7539.6  
6947.4  
6600.4  
6463.5  
6383.9  
6304.3  
6046.4  
5457.3  
4740.9  
4075.5  
3546.9  
3187.2  
3177.6  
3148.9  
2935.6  
2563.1  
2349.8  
2260.6  
2187.4  
2028.2  
1919.9  
1795.8  
**1658.8**  
1499.7  
1429.6  
1114.4  
751.4  
534.9  
398.0  
197.4  
0.0

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