

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: P951346

Luminaire Tested: **GALN-SB5C-740-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951346  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5C-740-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

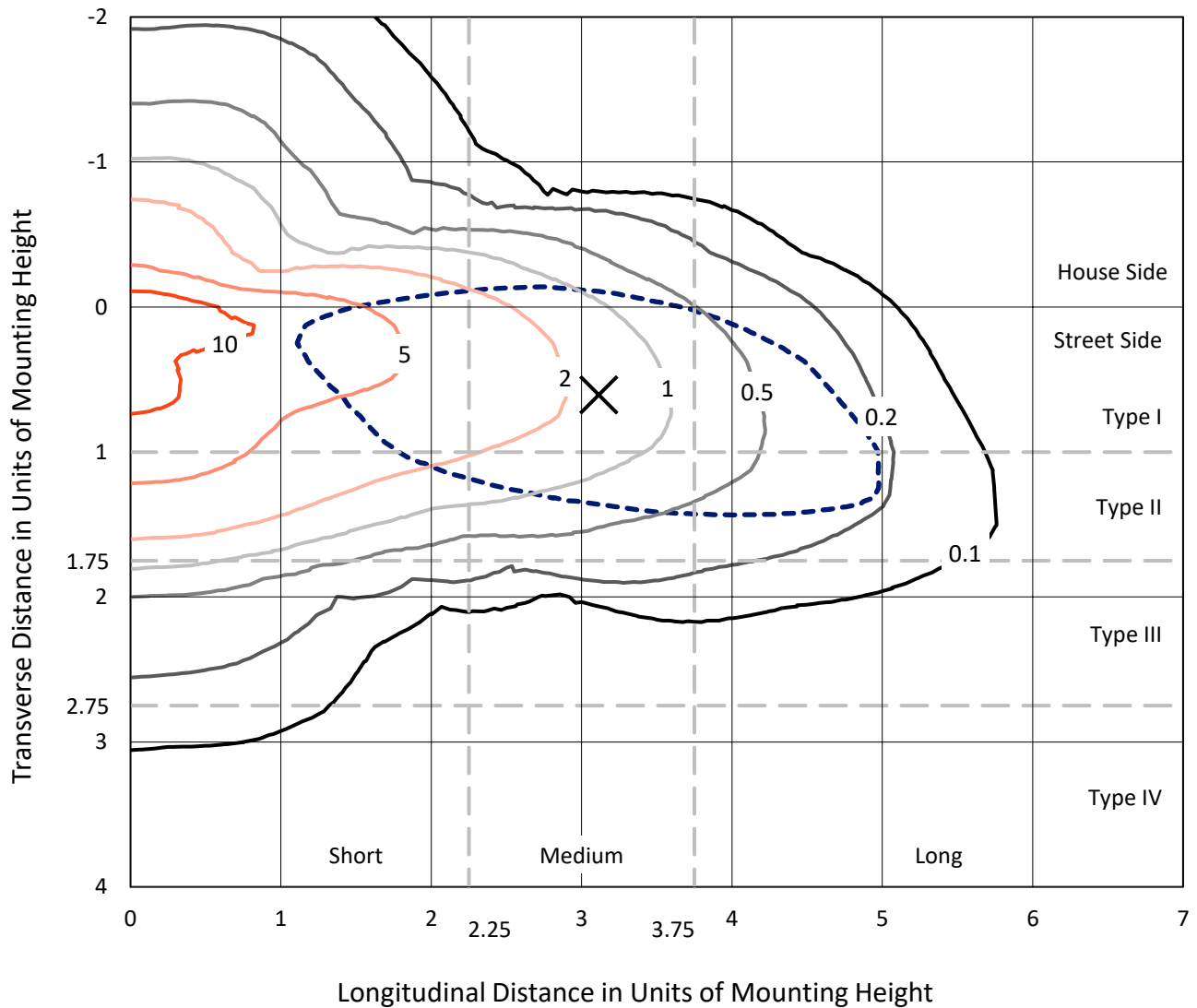
Lumens per Lamp: N/A  
Luminaire Lumens: 39781 lumens  
Efficiency: N/A  
Efficacy: 159.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

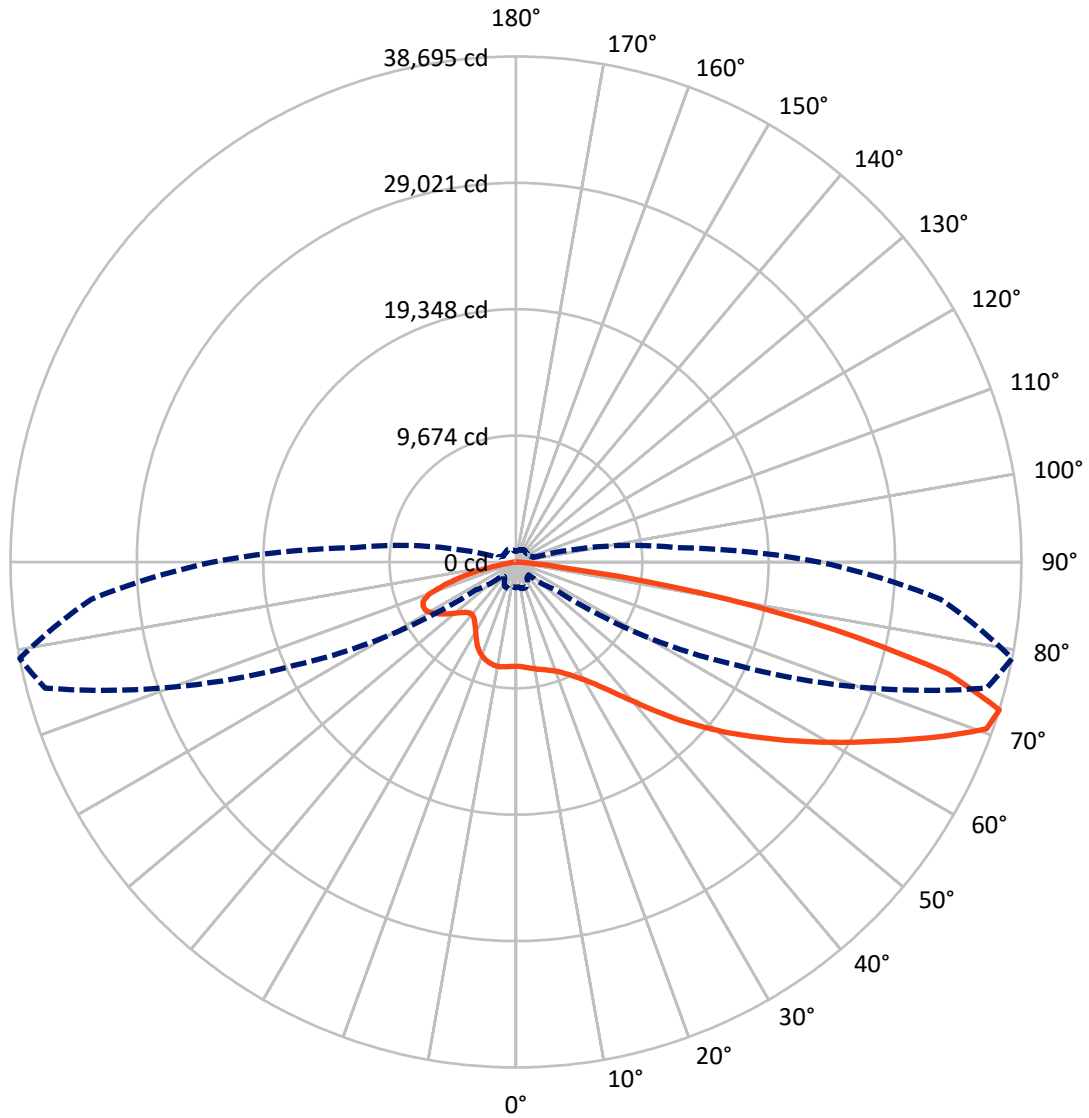
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8754.0   | 0.0    | 8754.0  |
|                    | % Fixture | 22.0     | 0.0    | 22.0    |
| <b>Street Side</b> | Lumens    | 31027.0  | 0.0    | 31027.0 |
|                    | % Fixture | 78.0     | 0.0    | 78.0    |
| <b>Total</b>       | Lumens    | 39781.0  | 0.0    | 39781.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 724.9   | 1.8       |
| 10°-20°   | 1895.2  | 4.8       |
| 20°-30°   | 3058.0  | 7.7       |
| 30°-40°   | 4589.7  | 11.5      |
| 40°-50°   | 6510.7  | 16.4      |
| 50°-60°   | 8222.1  | 20.7      |
| 60°-70°   | 8350.7  | 21.0      |
| 70°-80°   | 5691.4  | 14.3      |
| 80°-90°   | 738.4   | 1.9       |
| 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°    | 39781.0 | 100.0     |
| 0°-180°   | 39781.0 | 100.0     |



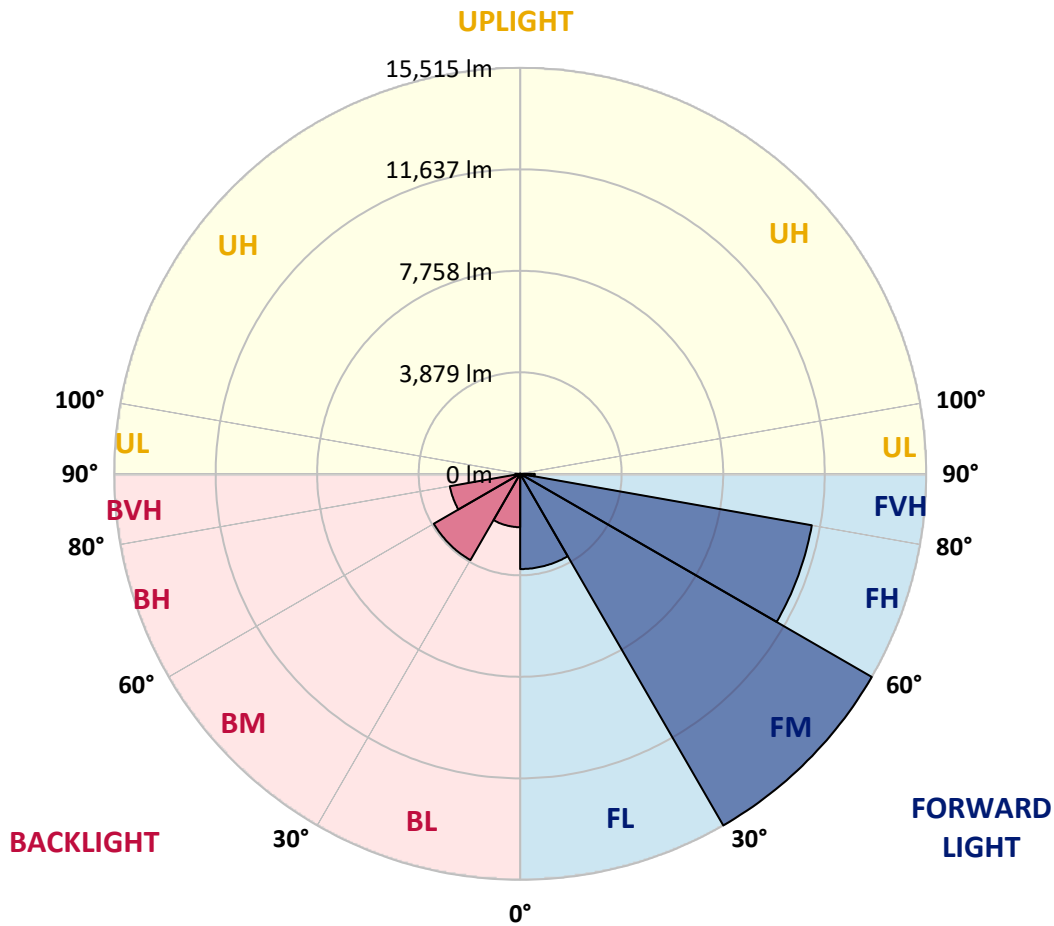
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 3639.0  | 9.1       |                         |      |          |
| FM (30°-60°)   | 15515.4 | 39.0      |                         |      |          |
| FH (60°-80°)   | 11316.3 | 28.4      |                         |      | G4/12000 |
| FVH (80°-90°)  | 556.2   | 1.4       |                         |      | G4/750   |
| BL (0°-30°)    | 2039.1  | 5.1       | B3/2500                 |      |          |
| BM (30°-60°)   | 3807.1  | 9.6       | B3/5000                 |      |          |
| BH (60°-80°)   | 2725.7  | 6.9       | B4/5000                 |      | G4/5000  |
| BVH (80°-90°)  | 182.2   | 0.5       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B4-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 79°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7985.7  | 7985.7  | 7985.7  | 7985.7  | 7985.7  | 7985.7  | 7985.7  | 7985.7  | 7985.7  | 7985.7  |
| 2.5°  | 7989.9  | 7952.0  | 7975.1  | 7966.7  | 7977.2  | 7989.9  | 7994.1  | 8000.4  | 8021.4  | 8019.3  |
| 5°    | 7973.0  | 7935.2  | 7966.7  | 7956.2  | 7983.6  | 8013.0  | 8038.3  | 8061.4  | 8095.1  | 8109.8  |
| 7.5°  | 7937.3  | 7912.0  | 7943.6  | 7975.1  | 8025.6  | 8069.8  | 8105.6  | 8158.2  | 8206.6  | 8215.0  |
| 10°   | 7728.9  | 7710.0  | 7783.6  | 7865.7  | 8004.6  | 8124.5  | 8202.4  | 8263.4  | 8316.0  | 8324.4  |
| 12.5° | 7512.2  | 7489.1  | 7571.1  | 7682.6  | 7907.8  | 8124.5  | 8288.7  | 8368.6  | 8414.9  | 8442.3  |
| 15°   | 7476.4  | 7457.5  | 7503.8  | 7600.6  | 7787.9  | 8067.7  | 8347.6  | 8494.9  | 8534.9  | 8566.4  |
| 17.5° | 7649.0  | 7613.2  | 7632.1  | 7665.8  | 7775.2  | 8015.1  | 8393.9  | 8638.0  | 8699.0  | 8732.7  |
| 20°   | 8048.8  | 7998.3  | 7968.8  | 7901.5  | 7882.5  | 8023.5  | 8389.7  | 8810.5  | 8890.5  | 8932.6  |
| 22.5° | 8581.2  | 8547.5  | 8484.4  | 8313.9  | 8128.7  | 8126.6  | 8469.6  | 9031.5  | 9180.9  | 9220.9  |
| 25°   | 9225.1  | 9174.6  | 9094.6  | 8863.1  | 8507.5  | 8330.8  | 8604.3  | 9313.4  | 9563.9  | 9574.4  |
| 27.5° | 9965.8  | 9890.0  | 9780.6  | 9475.5  | 8995.7  | 8650.6  | 8810.5  | 9637.5  | 10003.6 | 9999.4  |
| 30°   | 10746.4 | 10670.7 | 10555.0 | 10184.6 | 9580.7  | 9082.0  | 9096.7  | 9986.8  | 10525.5 | 10502.3 |
| 32.5° | 11316.7 | 11259.9 | 11236.7 | 10950.6 | 10254.0 | 9591.2  | 9425.0  | 10374.0 | 11169.4 | 11148.4 |
| 35°   | 11754.4 | 11680.7 | 11708.1 | 11562.9 | 10988.4 | 10161.5 | 9826.9  | 10834.8 | 11952.2 | 11950.1 |
| 37.5° | 12187.9 | 12122.6 | 12145.8 | 12049.0 | 11668.1 | 10885.3 | 10317.2 | 11398.8 | 12922.2 | 12968.5 |
| 40°   | 12583.5 | 12514.0 | 12606.6 | 12516.1 | 12196.3 | 11655.5 | 10874.8 | 12036.4 | 14045.9 | 14134.3 |
| 42.5° | 12821.2 | 12766.5 | 12920.1 | 12922.2 | 12655.0 | 12305.7 | 11487.1 | 12739.2 | 15346.4 | 15544.2 |
| 45°   | 12903.3 | 12884.4 | 13115.8 | 13164.2 | 13061.1 | 12682.4 | 12038.5 | 13505.1 | 16747.8 | 17101.3 |
| 47.5° | 12814.9 | 12779.2 | 13099.0 | 13277.9 | 13359.9 | 12859.1 | 12495.1 | 14334.2 | 18178.7 | 18696.3 |
| 50°   | 12368.8 | 12299.4 | 12774.9 | 13151.6 | 13444.1 | 12974.9 | 12955.9 | 15291.6 | 19805.3 | 20371.3 |
| 52.5° | 11567.1 | 11514.5 | 12055.3 | 12709.7 | 13258.9 | 13031.7 | 13473.6 | 16337.5 | 21349.8 | 22082.1 |
| 55°   | 10542.3 | 10472.9 | 11068.4 | 11922.7 | 12798.1 | 13012.7 | 13991.2 | 17507.4 | 23172.1 | 23914.9 |
| 57.5° | 8917.8  | 8779.0  | 9532.3  | 10542.3 | 12046.9 | 12989.6 | 14529.9 | 18671.1 | 25023.8 | 25913.9 |
| 60°   | 6548.4  | 6342.2  | 7266.0  | 8463.3  | 10578.1 | 12764.4 | 15196.9 | 19975.7 | 27245.9 | 28047.6 |
| 62.5° | 3812.9  | 3693.0  | 4296.9  | 5414.3  | 7973.0  | 11438.7 | 15571.5 | 21492.9 | 29430.1 | 30271.8 |
| 65°   | 2960.7  | 2927.0  | 2979.6  | 3065.9  | 4437.9  | 8564.3  | 14416.3 | 22972.2 | 32207.8 | 32797.0 |
| 67.5° | 2708.2  | 2682.9  | 2706.1  | 2544.0  | 2251.6  | 4770.4  | 11405.1 | 23346.7 | 35183.2 | 35540.9 |
| 70°   | 2407.3  | 2377.8  | 2453.6  | 2314.7  | 1771.8  | 2169.5  | 7369.1  | 21987.4 | 37550.5 | 38221.7 |
| 72.5° | 1961.2  | 1927.5  | 2104.3  | 2041.1  | 1491.9  | 1393.0  | 3701.4  | 18757.4 | 37302.2 | 38695.2 |
| 75°   | 1506.6  | 1487.7  | 1698.1  | 1750.7  | 1216.3  | 1096.3  | 1776.0  | 13942.8 | 32826.4 | 34230.0 |
| 77.5° | 1170.0  | 1155.2  | 1262.6  | 1454.0  | 980.6   | 850.1   | 1092.1  | 8844.2  | 24737.7 | 24983.9 |
| 80°   | 877.5   | 835.4   | 934.3   | 1125.8  | 763.8   | 620.8   | 740.7   | 5157.5  | 15636.7 | 14174.3 |
| 82.5° | 549.2   | 528.2   | 610.2   | 751.2   | 538.7   | 427.2   | 481.9   | 2849.2  | 6266.5  | 3690.9  |
| 85°   | 313.5   | 305.1   | 332.5   | 429.3   | 292.5   | 246.2   | 275.7   | 1258.3  | 1144.7  | 787.0   |
| 87.5° | 126.3   | 122.0   | 151.5   | 191.5   | 107.3   | 90.5    | 96.8    | 303.0   | 252.5   | 233.6   |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7985.7  | 0°    | 7985.7  | 7985.7  | 7985.7 | 7985.7 | 7985.7 | 7985.7 | 7985.7 | 7985.7 | 7985.7 | 7985.7 |
| 8017.2  | 2.5°  | 8008.8  | 8008.8  | 7979.3 | 7933.1 | 7880.4 | 7846.8 | 7792.1 | 7777.3 | 7720.5 | 7703.7 |
| 8088.8  | 5°    | 8105.6  | 8088.8  | 7998.3 | 7867.8 | 7689.0 | 7524.8 | 7343.9 | 7230.2 | 7070.3 | 7013.5 |
| 8229.8  | 7.5°  | 8227.6  | 8181.4  | 8025.6 | 7739.5 | 7364.9 | 6996.7 | 6613.7 | 6323.3 | 6045.5 | 5946.6 |
| 8345.5  | 10°   | 8339.2  | 8273.9  | 8008.8 | 7508.0 | 6859.9 | 6222.3 | 5612.1 | 5184.9 | 4860.8 | 4728.3 |
| 8473.8  | 12.5° | 8450.7  | 8330.8  | 7897.3 | 7122.9 | 6142.3 | 5277.5 | 4627.3 | 4294.8 | 4094.9 | 3935.0 |
| 8579.1  | 15°   | 8555.9  | 8387.6  | 7724.7 | 6607.4 | 5355.3 | 4477.9 | 3998.1 | 3733.0 | 3573.0 | 3467.8 |
| 8732.7  | 17.5° | 8678.0  | 8436.0  | 7465.9 | 5952.9 | 4606.2 | 3924.4 | 3533.0 | 3373.1 | 3341.6 | 3328.9 |
| 8943.1  | 20°   | 8848.4  | 8480.2  | 7125.0 | 5220.7 | 4054.9 | 3482.5 | 3280.5 | 3265.8 | 3263.7 | 3257.4 |
| 9195.6  | 22.5° | 9031.5  | 8532.8  | 6674.7 | 4555.7 | 3585.7 | 3206.9 | 3171.1 | 3141.7 | 3122.7 | 3120.6 |
| 9500.7  | 25°   | 9248.2  | 8549.6  | 6110.8 | 4010.7 | 3185.8 | 3076.4 | 3034.3 | 2990.2 | 2977.5 | 2977.5 |
| 9847.9  | 27.5° | 9458.6  | 8492.8  | 5454.2 | 3537.3 | 2960.7 | 2956.5 | 2901.8 | 2887.0 | 2884.9 | 2891.2 |
| 10243.5 | 30°   | 9669.1  | 8385.5  | 4801.9 | 3099.6 | 2830.2 | 2830.2 | 2811.3 | 2821.8 | 2830.2 | 2851.3 |
| 10786.4 | 32.5° | 9953.1  | 8271.8  | 4256.9 | 2775.5 | 2716.6 | 2695.6 | 2714.5 | 2735.5 | 2744.0 | 2771.3 |
| 11499.8 | 35°   | 10369.8 | 8191.9  | 3823.4 | 2598.8 | 2598.8 | 2571.4 | 2581.9 | 2577.7 | 2558.8 | 2546.2 |
| 12362.5 | 37.5° | 10921.1 | 8187.7  | 3465.7 | 2516.7 | 2499.9 | 2495.6 | 2497.8 | 2470.4 | 2396.7 | 2308.4 |
| 13406.2 | 40°   | 11583.9 | 8301.3  | 3190.1 | 2459.9 | 2447.3 | 2472.5 | 2459.9 | 2386.2 | 2184.2 | 2030.6 |
| 14689.8 | 42.5° | 12474.0 | 8625.4  | 3013.3 | 2390.4 | 2428.3 | 2459.9 | 2409.4 | 2154.8 | 2018.0 | 1914.9 |
| 16152.3 | 45°   | 13522.0 | 9151.4  | 2922.8 | 2316.8 | 2392.5 | 2430.4 | 2186.3 | 2074.8 | 1965.4 | 1841.2 |
| 17747.3 | 47.5° | 14708.8 | 9814.3  | 2901.8 | 2247.3 | 2312.6 | 2335.7 | 2091.6 | 2041.1 | 1917.0 | 1782.3 |
| 19350.8 | 50°   | 16000.8 | 10599.1 | 2958.6 | 2165.3 | 2196.8 | 2116.9 | 2060.1 | 2013.8 | 1885.4 | 1752.8 |
| 20994.2 | 52.5° | 17337.0 | 11464.0 | 3072.2 | 2053.8 | 2081.1 | 1992.7 | 2047.4 | 2007.5 | 1866.5 | 1687.6 |
| 22692.3 | 55°   | 18650.0 | 12335.2 | 3181.6 | 1923.3 | 1963.3 | 1881.2 | 2011.7 | 1982.2 | 1780.2 | 1578.2 |
| 24504.1 | 57.5° | 19984.1 | 13202.1 | 3289.0 | 1807.6 | 1849.6 | 1773.9 | 1954.9 | 1914.9 | 1683.4 | 1477.2 |
| 26482.1 | 60°   | 21370.8 | 14043.8 | 3339.5 | 1696.0 | 1725.5 | 1675.0 | 1868.6 | 1799.1 | 1574.0 | 1374.1 |
| 28426.4 | 62.5° | 22669.2 | 14744.5 | 3257.4 | 1584.5 | 1603.4 | 1582.4 | 1755.0 | 1662.4 | 1464.6 | 1258.3 |
| 30452.8 | 65°   | 23971.7 | 15161.2 | 3004.9 | 1475.1 | 1479.3 | 1468.8 | 1595.0 | 1515.1 | 1336.2 | 1157.3 |
| 32226.7 | 67.5° | 25152.2 | 15394.7 | 2603.0 | 1357.2 | 1346.7 | 1342.5 | 1445.6 | 1355.1 | 1212.1 | 1056.3 |
| 33575.5 | 70°   | 25402.6 | 14801.3 | 1988.5 | 1218.4 | 1218.4 | 1207.8 | 1281.5 | 1188.9 | 1075.3 | 949.0  |
| 32609.7 | 72.5° | 23201.5 | 12450.9 | 1412.0 | 1060.5 | 1077.4 | 1056.3 | 1117.4 | 1039.5 | 936.4  | 852.2  |
| 28104.5 | 75°   | 18709.0 | 9130.4  | 1026.9 | 898.5  | 928.0  | 892.2  | 949.0  | 894.3  | 805.9  | 803.8  |
| 19367.6 | 77.5° | 12854.9 | 5645.7  | 744.9  | 740.7  | 761.7  | 715.4  | 780.7  | 751.2  | 671.3  | 635.5  |
| 8429.7  | 80°   | 5485.8  | 2251.6  | 542.9  | 572.4  | 572.4  | 530.3  | 606.0  | 614.4  | 545.0  | 528.2  |
| 1626.6  | 82.5° | 1092.1  | 639.7   | 380.9  | 393.5  | 370.3  | 357.7  | 429.3  | 475.6  | 656.5  | 730.2  |
| 490.3   | 85°   | 328.3   | 235.7   | 229.4  | 214.6  | 189.4  | 191.5  | 252.5  | 477.7  | 589.2  | 336.7  |
| 162.0   | 87.5° | 90.5    | 58.9    | 61.0   | 48.4   | 40.0   | 52.6   | 86.3   | 361.9  | 197.8  | 84.2   |
| 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> |
| 7985.7      |
| 7731.0      |
| 7055.6      |
| 5959.3      |
| 4757.7      |
| 3987.6      |
| 3486.8      |
| 3337.4      |
| 3278.4      |
| 3143.8      |
| 2990.2      |
| 2908.1      |
| 2866.0      |
| 2794.5      |
| 2575.6      |
| 2310.5      |
| 2026.4      |
| 1910.7      |
| 1832.8      |
| 1771.8      |
| 1738.1      |
| 1675.0      |
| 1567.7      |
| 1473.0      |
| 1367.8      |
| 1256.2      |
| 1144.7      |
| 1043.7      |
| 944.8       |
| 827.0       |
| 723.9       |
| 595.5       |
| 528.2       |
| 732.3       |
| 290.4       |
| 71.5        |
| 0.0         |

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