

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: P951745

Luminaire Tested: **GALN-SB5D-760-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951745  
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-SB5D-760-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

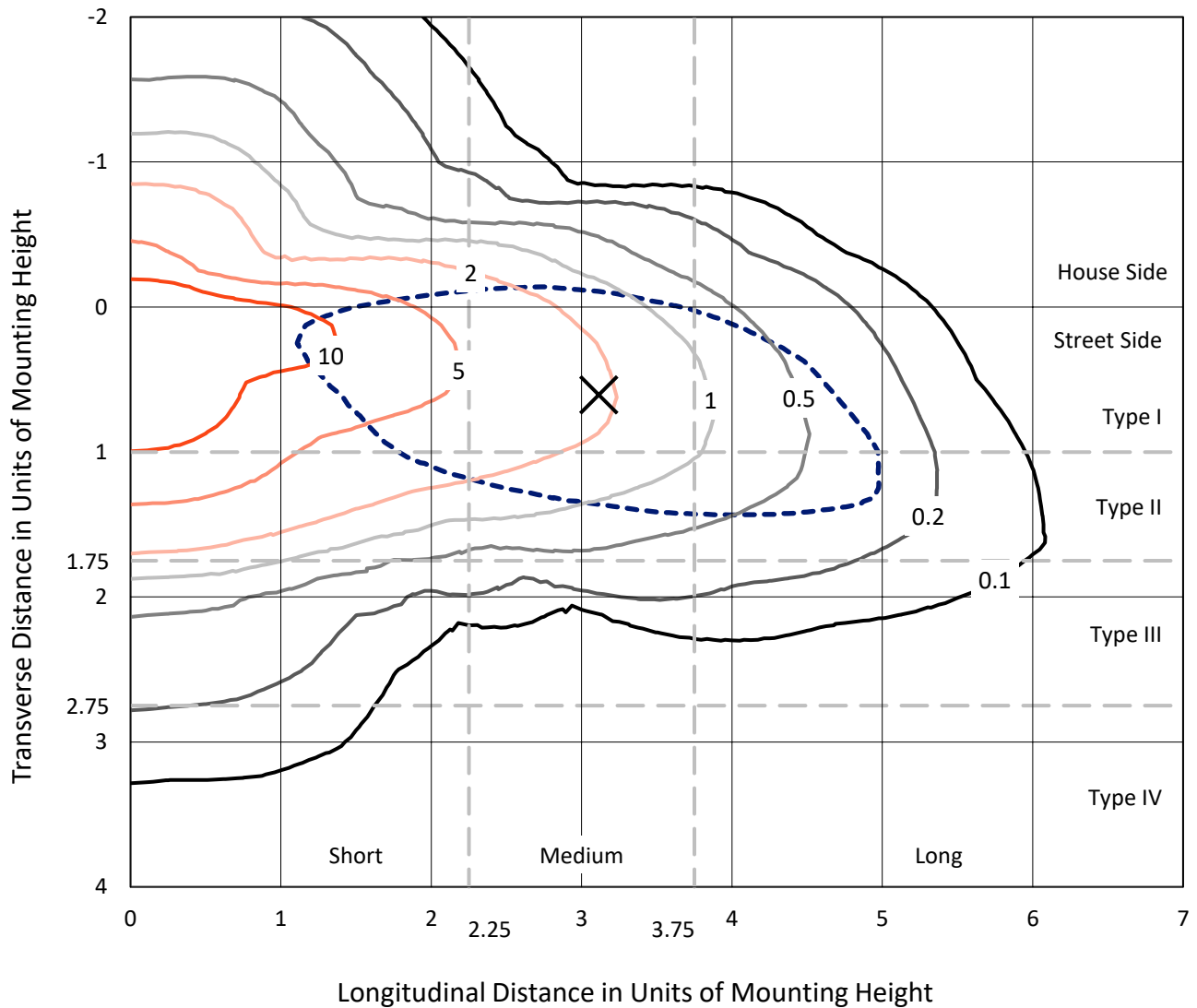
Lumens per Lamp: N/A  
Luminaire Lumens: 54054 lumens  
Efficiency: N/A  
Efficacy: 148.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

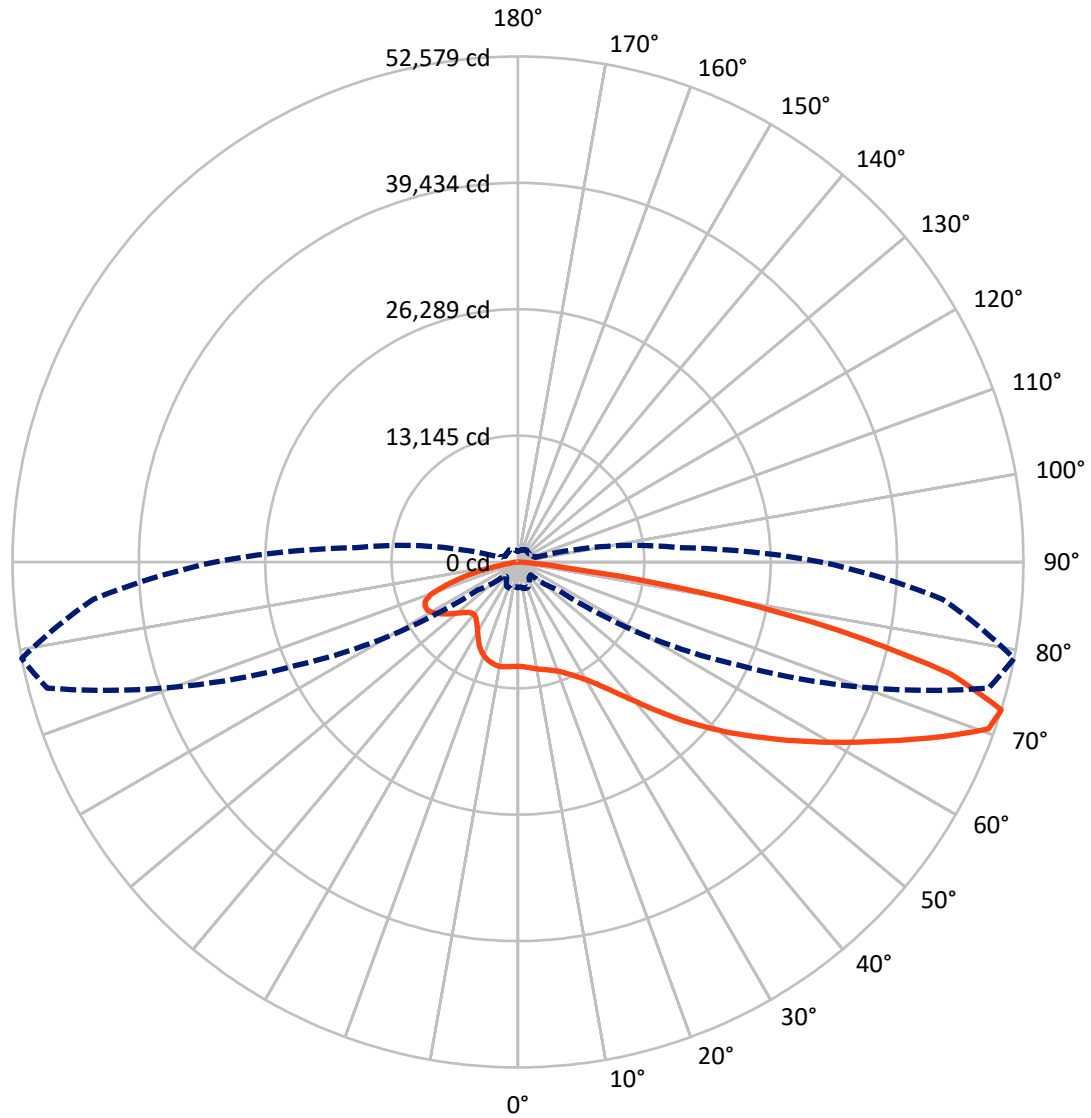
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 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    | 11894.9  | 0.0    | 11894.9 |
|                    | % Fixture | 22.0     | 0.0    | 22.0    |
| <b>Street Side</b> | Lumens    | 42159.2  | 0.0    | 42159.2 |
|                    | % Fixture | 78.0     | 0.0    | 78.0    |
| <b>Total</b>       | Lumens    | 54054.0  | 0.0    | 54054.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 984.9   | 1.8       |
| 10°-20°   | 2575.1  | 4.8       |
| 20°-30°   | 4155.2  | 7.7       |
| 30°-40°   | 6236.4  | 11.5      |
| 40°-50°   | 8846.7  | 16.4      |
| 50°-60°   | 11172.1 | 20.7      |
| 60°-70°   | 11346.8 | 21.0      |
| 70°-80°   | 7733.4  | 14.3      |
| 80°-90°   | 1003.3  | 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°    | 54054.0 | 100.0     |
| 0°-180°   | 54054.0 | 100.0     |

**Coefficient of Utilization**

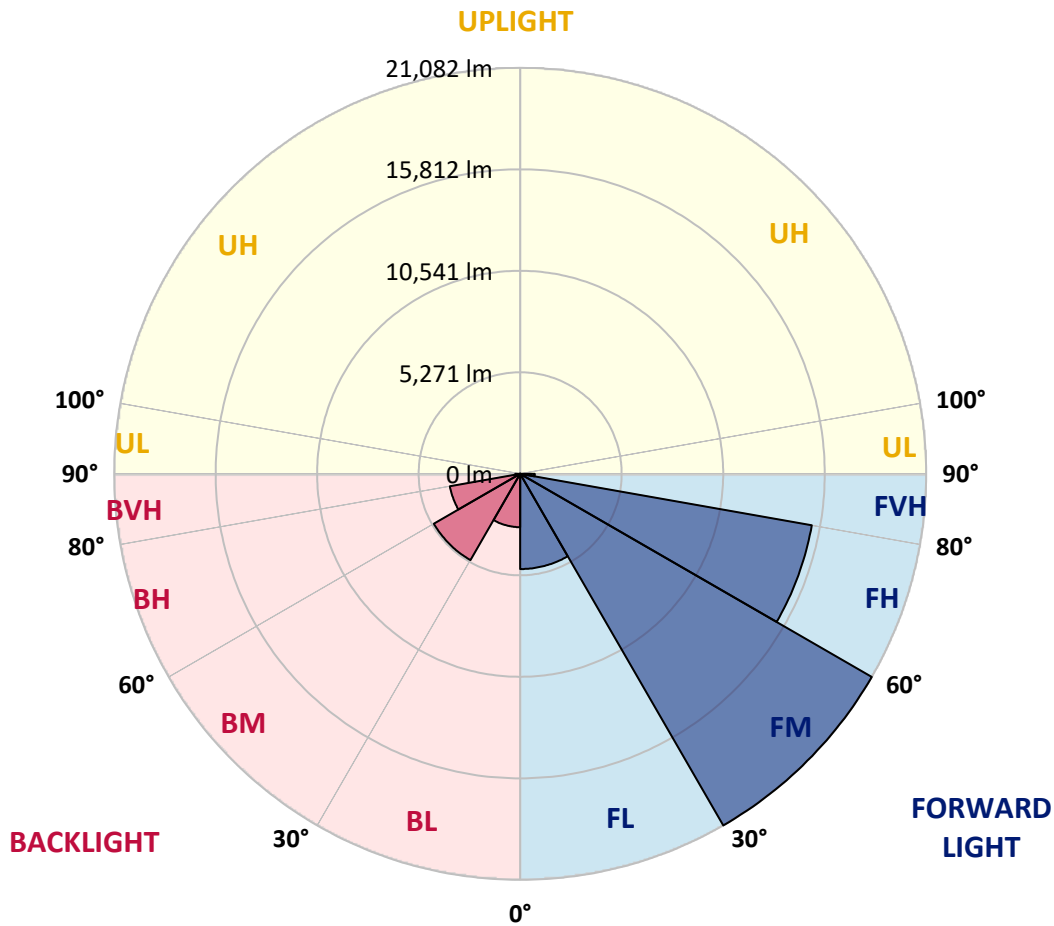


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4944.6  | 9.1       |                         |      |         |
| FM (30°-60°)   | 21082.2 | 39.0      |                         |      |         |
| FH (60°-80°)   | 15376.5 | 28.4      |                         |      | G5      |
| FVH (80°-90°)  | 755.8   | 1.4       |                         |      | G5      |
| BL (0°-30°)    | 2770.7  | 5.1       | B4/5000                 |      |         |
| BM (30°-60°)   | 5173.0  | 9.6       | B4/8500                 |      |         |
| BH (60°-80°)   | 3703.7  | 6.9       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 247.5   | 0.5       |                         |      | 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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 79°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10850.8 | 10850.8 | 10850.8 | 10850.8 | 10850.8 | 10850.8 | 10850.8 | 10850.8 | 10850.8 | 10850.8 |
| 2.5°  | 10856.5 | 10805.1 | 10836.5 | 10825.1 | 10839.4 | 10856.5 | 10862.3 | 10870.8 | 10899.4 | 10896.6 |
| 5°    | 10833.7 | 10782.2 | 10825.1 | 10810.8 | 10848.0 | 10888.0 | 10922.3 | 10953.8 | 10999.5 | 11019.5 |
| 7.5°  | 10785.1 | 10750.8 | 10793.6 | 10836.5 | 10905.2 | 10965.2 | 11013.8 | 11085.3 | 11151.0 | 11162.5 |
| 10°   | 10502.0 | 10476.3 | 10576.3 | 10687.8 | 10876.6 | 11039.5 | 11145.3 | 11228.2 | 11299.7 | 11311.2 |
| 12.5° | 10207.5 | 10176.0 | 10287.6 | 10439.1 | 10745.0 | 11039.5 | 11262.6 | 11371.2 | 11434.1 | 11471.3 |
| 15°   | 10158.9 | 10133.2 | 10196.1 | 10327.6 | 10582.1 | 10962.3 | 11342.6 | 11542.8 | 11597.1 | 11640.0 |
| 17.5° | 10393.3 | 10344.7 | 10370.5 | 10416.2 | 10564.9 | 10890.9 | 11405.5 | 11737.2 | 11820.1 | 11865.9 |
| 20°   | 10936.6 | 10868.0 | 10828.0 | 10736.5 | 10710.7 | 10902.3 | 11399.8 | 11971.6 | 12080.3 | 12137.5 |
| 22.5° | 11660.0 | 11614.2 | 11528.5 | 11296.9 | 11045.3 | 11042.4 | 11508.5 | 12271.9 | 12474.9 | 12529.2 |
| 25°   | 12534.9 | 12466.3 | 12357.6 | 12043.1 | 11559.9 | 11319.7 | 11691.4 | 12655.0 | 12995.3 | 13009.6 |
| 27.5° | 13541.4 | 13438.4 | 13289.8 | 12875.2 | 12223.3 | 11754.3 | 11971.6 | 13095.3 | 13592.8 | 13587.1 |
| 30°   | 14602.2 | 14499.2 | 14342.0 | 13838.7 | 13018.1 | 12340.5 | 12360.5 | 13570.0 | 14301.9 | 14270.5 |
| 32.5° | 15377.0 | 15299.8 | 15268.4 | 14879.5 | 13933.1 | 13032.4 | 12806.5 | 14096.1 | 15176.9 | 15148.3 |
| 35°   | 15971.7 | 15871.7 | 15908.8 | 15711.5 | 14931.0 | 13807.3 | 13352.7 | 14722.2 | 16240.5 | 16237.6 |
| 37.5° | 16560.7 | 16472.1 | 16503.5 | 16372.0 | 15854.5 | 14790.9 | 14018.9 | 15488.5 | 17558.6 | 17621.5 |
| 40°   | 17098.3 | 17003.9 | 17129.7 | 17006.8 | 16572.2 | 15837.3 | 14776.6 | 16354.9 | 19085.4 | 19205.5 |
| 42.5° | 17421.4 | 17347.0 | 17555.8 | 17558.6 | 17195.5 | 16720.9 | 15608.6 | 17309.9 | 20852.5 | 21121.2 |
| 45°   | 17532.9 | 17507.1 | 17821.7 | 17887.4 | 17747.3 | 17232.7 | 16357.7 | 18350.6 | 22756.7 | 23237.1 |
| 47.5° | 17412.8 | 17364.2 | 17798.8 | 18041.8 | 18153.3 | 17472.8 | 16978.2 | 19477.2 | 24701.0 | 25404.4 |
| 50°   | 16806.6 | 16712.3 | 17358.5 | 17870.3 | 18267.7 | 17630.1 | 17604.4 | 20778.1 | 26911.2 | 27680.3 |
| 52.5° | 15717.3 | 15645.8 | 16380.6 | 17269.8 | 18016.1 | 17707.3 | 18307.7 | 22199.2 | 29009.9 | 30004.9 |
| 55°   | 14324.8 | 14230.5 | 15039.6 | 16200.5 | 17389.9 | 17681.6 | 19011.1 | 23788.9 | 31486.0 | 32495.3 |
| 57.5° | 12117.5 | 11928.8 | 12952.4 | 14324.8 | 16369.2 | 17650.1 | 19743.1 | 25370.1 | 34002.1 | 35211.6 |
| 60°   | 8898.0  | 8617.8  | 9873.0  | 11499.9 | 14373.4 | 17344.2 | 20649.5 | 27142.8 | 37021.5 | 38110.8 |
| 62.5° | 5180.9  | 5018.0  | 5838.6  | 7356.8  | 10833.7 | 15542.8 | 21158.4 | 29204.3 | 39989.4 | 41133.1 |
| 65°   | 4023.0  | 3977.2  | 4048.7  | 4165.9  | 6030.1  | 11637.1 | 19588.7 | 31214.4 | 43763.6 | 44564.2 |
| 67.5° | 3679.8  | 3645.5  | 3677.0  | 3456.8  | 3059.4  | 6481.9  | 15497.1 | 31723.3 | 47806.5 | 48292.6 |
| 70°   | 3271.0  | 3230.9  | 3333.9  | 3145.2  | 2407.5  | 2947.9  | 10013.1 | 29876.2 | 51023.2 | 51935.3 |
| 72.5° | 2664.8  | 2619.1  | 2859.2  | 2773.5  | 2027.2  | 1892.8  | 5029.4  | 25487.3 | 50685.8 | 52578.6 |
| 75°   | 2047.2  | 2021.5  | 2307.4  | 2378.9  | 1652.6  | 1489.7  | 2413.2  | 18945.3 | 44604.2 | 46511.3 |
| 77.5° | 1589.7  | 1569.7  | 1715.5  | 1975.7  | 1332.4  | 1155.1  | 1483.9  | 12017.4 | 33613.3 | 33947.8 |
| 80°   | 1192.3  | 1135.1  | 1269.5  | 1529.7  | 1037.9  | 843.5   | 1006.5  | 7008.0  | 21247.0 | 19259.9 |
| 82.5° | 746.3   | 717.7   | 829.2   | 1020.7  | 732.0   | 580.4   | 654.8   | 3871.4  | 8514.8  | 5015.1  |
| 85°   | 426.0   | 414.6   | 451.8   | 583.3   | 397.4   | 334.5   | 374.6   | 1709.8  | 1555.4  | 1069.4  |
| 87.5° | 171.6   | 165.8   | 205.9   | 260.2   | 145.8   | 122.9   | 131.5   | 411.7   | 343.1   | 317.4   |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 10850.8 | 0°    | 10850.8 | 10850.8 | 10850.8 | 10850.8 | 10850.8 | 10850.8 | 10850.8 | 10850.8 | 10850.8 | 10850.8 |
| 10893.7 | 2.5°  | 10882.3 | 10882.3 | 10842.2 | 10779.3 | 10707.9 | 10662.1 | 10587.8 | 10567.8 | 10490.6 | 10467.7 |
| 10990.9 | 5°    | 11013.8 | 10990.9 | 10868.0 | 10690.7 | 10447.7 | 10224.7 | 9978.8  | 9824.4  | 9607.1  | 9529.9  |
| 11182.5 | 7.5°  | 11179.6 | 11116.7 | 10905.2 | 10516.3 | 10007.3 | 9507.0  | 8986.6  | 8592.0  | 8214.6  | 8080.2  |
| 11339.8 | 10°   | 11331.2 | 11242.5 | 10882.3 | 10201.8 | 9321.1  | 8454.8  | 7625.6  | 7045.2  | 6604.9  | 6424.7  |
| 11514.2 | 12.5° | 11482.7 | 11319.7 | 10730.7 | 9678.5  | 8346.1  | 7171.0  | 6287.5  | 5835.7  | 5564.1  | 5346.8  |
| 11657.1 | 15°   | 11625.7 | 11396.9 | 10496.3 | 8978.0  | 7276.8  | 6084.5  | 5432.6  | 5072.3  | 4855.0  | 4712.0  |
| 11865.9 | 17.5° | 11791.5 | 11462.7 | 10144.6 | 8088.8  | 6258.9  | 5332.5  | 4800.7  | 4583.4  | 4540.5  | 4523.3  |
| 12151.8 | 20°   | 12023.1 | 11522.7 | 9681.4  | 7093.8  | 5509.8  | 4732.0  | 4457.6  | 4437.5  | 4434.7  | 4426.1  |
| 12494.9 | 22.5° | 12271.9 | 11594.2 | 9069.5  | 6190.3  | 4872.1  | 4357.5  | 4308.9  | 4268.8  | 4243.1  | 4240.3  |
| 12909.5 | 25°   | 12566.4 | 11617.1 | 8303.2  | 5449.7  | 4328.9  | 4180.2  | 4123.0  | 4063.0  | 4045.8  | 4045.8  |
| 13381.3 | 27.5° | 12852.3 | 11539.9 | 7411.2  | 4806.4  | 4023.0  | 4017.2  | 3942.9  | 3922.9  | 3920.0  | 3928.6  |
| 13918.8 | 30°   | 13138.2 | 11394.1 | 6524.8  | 4211.7  | 3845.7  | 3845.7  | 3819.9  | 3834.2  | 3845.7  | 3874.3  |
| 14656.5 | 32.5° | 13524.2 | 11239.7 | 5784.2  | 3771.3  | 3691.3  | 3662.7  | 3688.4  | 3717.0  | 3728.5  | 3765.6  |
| 15625.8 | 35°   | 14090.3 | 11131.0 | 5195.2  | 3531.2  | 3531.2  | 3494.0  | 3508.3  | 3502.6  | 3476.8  | 3459.7  |
| 16798.1 | 37.5° | 14839.5 | 11125.3 | 4709.2  | 3419.7  | 3396.8  | 3391.1  | 3393.9  | 3356.8  | 3256.7  | 3136.6  |
| 18216.2 | 40°   | 15740.1 | 11279.7 | 4334.6  | 3342.5  | 3325.3  | 3359.6  | 3342.5  | 3242.4  | 2967.9  | 2759.2  |
| 19960.4 | 42.5° | 16949.6 | 11720.0 | 4094.4  | 3248.1  | 3299.6  | 3342.5  | 3273.8  | 2927.9  | 2742.0  | 2601.9  |
| 21947.5 | 45°   | 18373.5 | 12434.8 | 3971.5  | 3148.0  | 3251.0  | 3302.4  | 2970.8  | 2819.2  | 2670.5  | 2501.8  |
| 24114.9 | 47.5° | 19986.1 | 13335.5 | 3942.9  | 3053.7  | 3142.3  | 3173.8  | 2842.1  | 2773.5  | 2604.8  | 2421.8  |
| 26293.6 | 50°   | 21741.7 | 14402.0 | 4020.1  | 2942.2  | 2985.0  | 2876.4  | 2799.2  | 2736.3  | 2561.9  | 2381.7  |
| 28526.7 | 52.5° | 23557.3 | 15577.2 | 4174.5  | 2790.6  | 2827.8  | 2707.7  | 2782.0  | 2727.7  | 2536.1  | 2293.1  |
| 30834.1 | 55°   | 25341.5 | 16760.9 | 4323.2  | 2613.3  | 2667.7  | 2556.2  | 2733.4  | 2693.4  | 2418.9  | 2144.4  |
| 33295.9 | 57.5° | 27154.2 | 17938.9 | 4469.0  | 2456.1  | 2513.3  | 2410.3  | 2656.2  | 2601.9  | 2287.4  | 2007.2  |
| 35983.6 | 60°   | 29038.5 | 19082.6 | 4537.6  | 2304.5  | 2344.6  | 2276.0  | 2539.0  | 2444.7  | 2138.7  | 1867.1  |
| 38625.5 | 62.5° | 30802.6 | 20034.7 | 4426.1  | 2153.0  | 2178.7  | 2150.2  | 2384.6  | 2258.8  | 1990.0  | 1709.8  |
| 41379.0 | 65°   | 32572.5 | 20600.8 | 4083.0  | 2004.3  | 2010.0  | 1995.8  | 2167.3  | 2058.7  | 1815.6  | 1572.6  |
| 43789.3 | 67.5° | 34176.5 | 20918.2 | 3536.9  | 1844.2  | 1829.9  | 1824.2  | 1964.3  | 1841.4  | 1646.9  | 1435.3  |
| 45622.1 | 70°   | 34516.8 | 20111.9 | 2702.0  | 1655.5  | 1655.5  | 1641.2  | 1741.3  | 1615.5  | 1461.1  | 1289.5  |
| 44309.7 | 72.5° | 31526.0 | 16918.1 | 1918.6  | 1441.1  | 1463.9  | 1435.3  | 1518.3  | 1412.5  | 1272.4  | 1158.0  |
| 38188.0 | 75°   | 25421.5 | 12406.3 | 1395.3  | 1220.9  | 1260.9  | 1212.3  | 1289.5  | 1215.2  | 1095.1  | 1092.2  |
| 26316.5 | 77.5° | 17467.1 | 7671.3  | 1012.2  | 1006.5  | 1035.0  | 972.1   | 1060.8  | 1020.7  | 912.1   | 863.5   |
| 11454.1 | 80°   | 7454.0  | 3059.4  | 737.7   | 777.7   | 777.7   | 720.5   | 823.5   | 834.9   | 740.5   | 717.7   |
| 2210.2  | 82.5° | 1483.9  | 869.2   | 517.5   | 534.7   | 503.2   | 486.1   | 583.3   | 646.2   | 892.1   | 992.2   |
| 666.2   | 85°   | 446.0   | 320.2   | 311.7   | 291.6   | 257.3   | 260.2   | 343.1   | 649.0   | 800.6   | 457.5   |
| 220.2   | 87.5° | 122.9   | 80.1    | 82.9    | 65.8    | 54.3    | 71.5    | 117.2   | 491.8   | 268.8   | 114.4   |
| 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°  
10850.8  
10504.9  
9587.0  
8097.4  
6464.7  
5418.3  
4737.8  
4534.8  
4454.7  
4271.7  
4063.0  
3951.5  
3894.3  
3797.1  
3499.7  
3139.4  
2753.5  
2596.2  
2490.4  
2407.5  
2361.7  
2276.0  
2130.1  
2001.5  
1858.5  
1707.0  
1555.4  
1418.2  
1283.8  
*1123.7*  
983.6  
809.2  
717.7  
995.0  
394.6  
97.2  
0.0

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