

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: P953464

Luminaire Tested: **GALN-SB7A-735-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953464  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7A-735-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

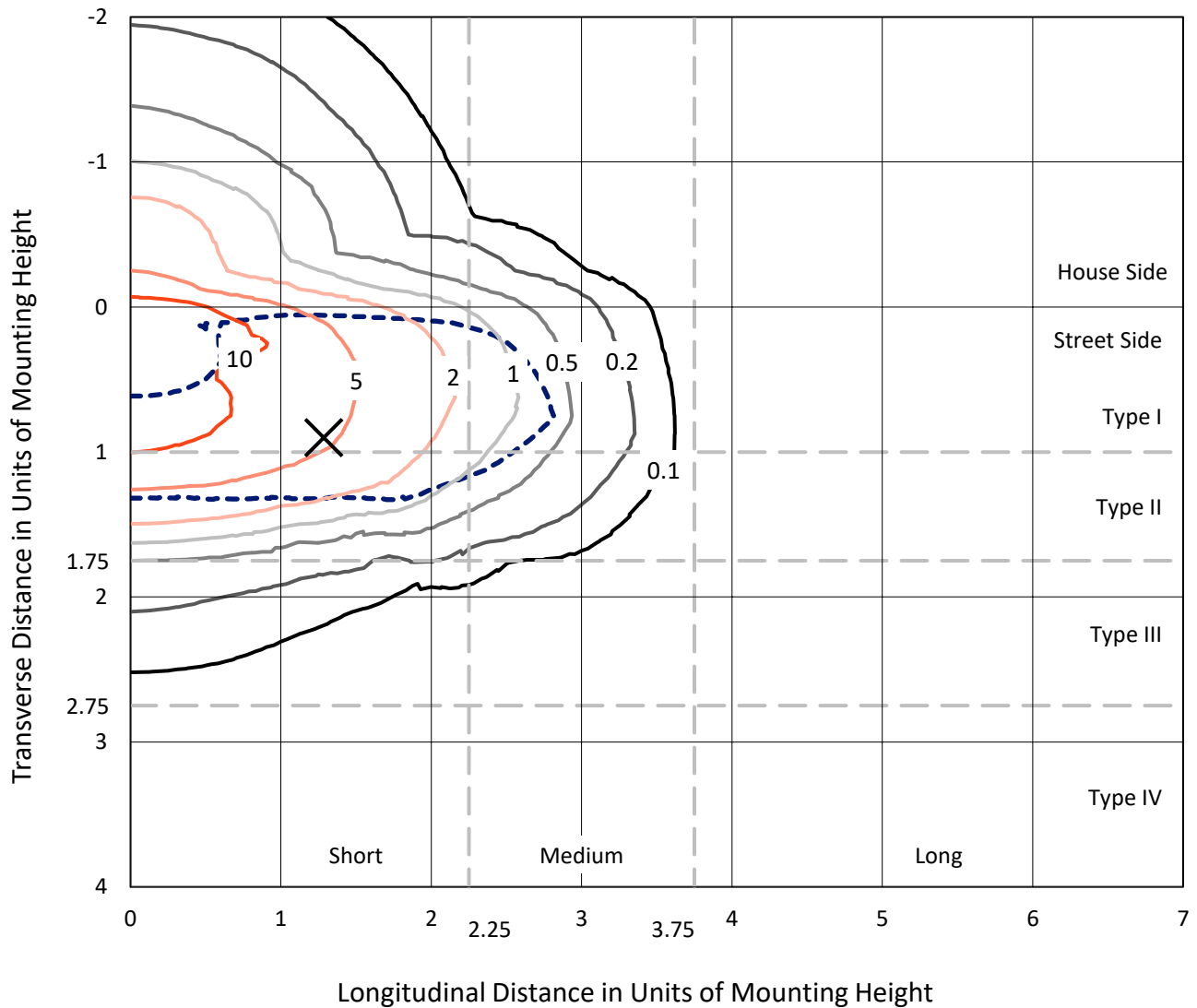
Lumens per Lamp: N/A  
Luminaire Lumens: 32444 lumens  
Efficiency: N/A  
Efficacy: 163.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

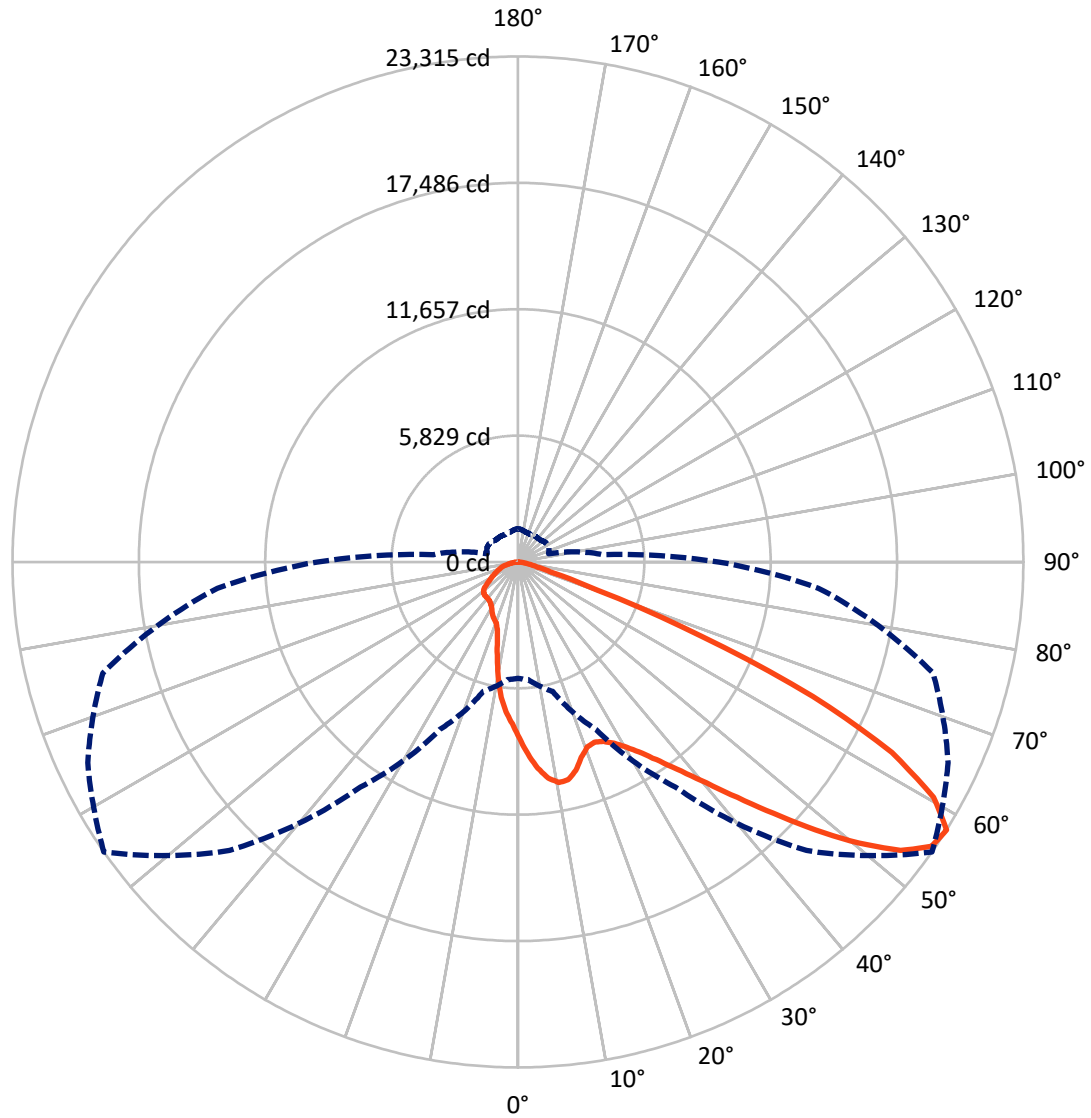
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5870.6   | 0.0    | 5870.6  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 26573.4  | 0.0    | 26573.4 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 32444.0  | 0.0    | 32444.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 754.4   | 2.3       |
| 10°-20°   | 1904.0  | 5.9       |
| 20°-30°   | 3038.3  | 9.4       |
| 30°-40°   | 4810.4  | 14.8      |
| 40°-50°   | 7362.8  | 22.7      |
| 50°-60°   | 7886.3  | 24.3      |
| 60°-70°   | 4961.3  | 15.3      |
| 70°-80°   | 1467.1  | 4.5       |
| 80°-90°   | 259.4   | 0.8       |
| 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°    | 32444.0 | 100.0     |
| 0°-180°   | 32444.0 | 100.0     |

**Coefficient of Utilization**



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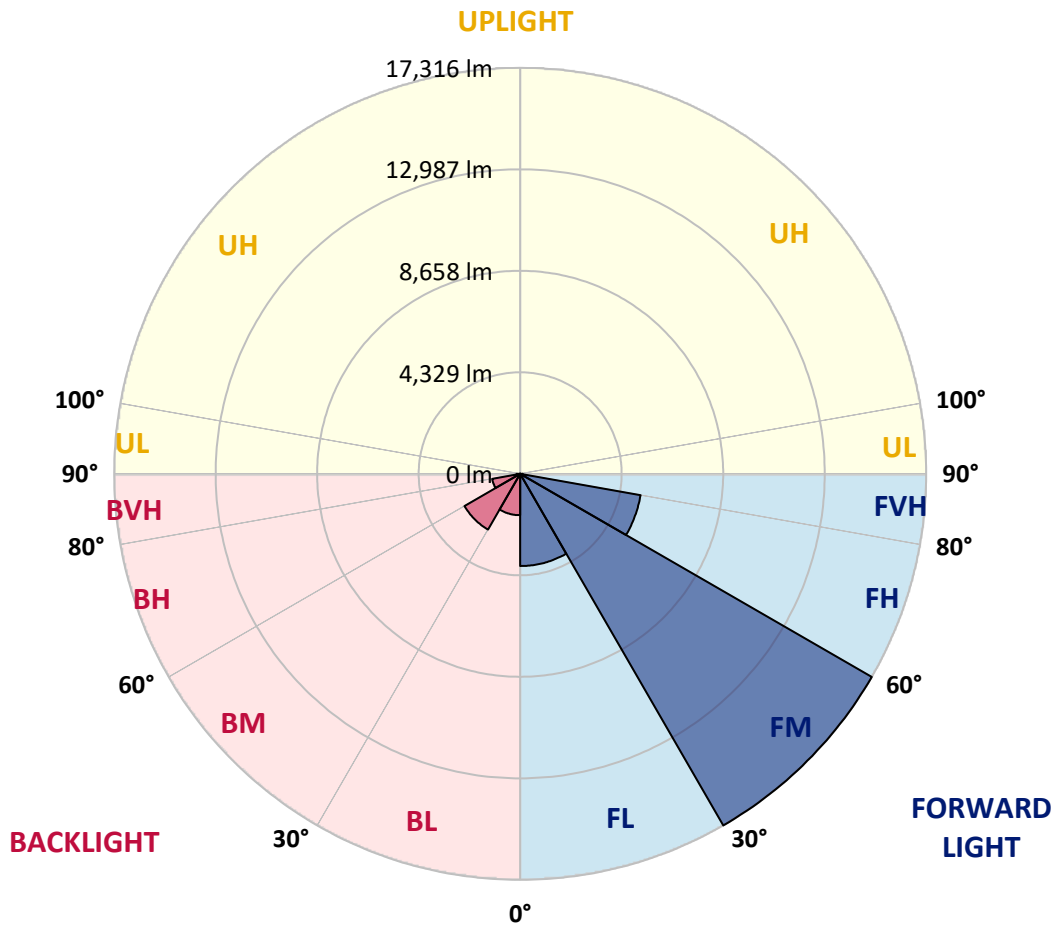
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3932.2  | 12.1      |                         |      |         |
| FM (30°-60°)   | 17315.6 | 53.4      |                         |      |         |
| FH (60°-80°)   | 5216.0  | 16.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 109.6   | 0.3       |                         |      | G2/225  |
| BL (0°-30°)    | 1764.5  | 5.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 2743.9  | 8.5       | B3/5000                 |      |         |
| BH (60°-80°)   | 1212.4  | 3.7       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 149.8   | 0.5       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8129.4  | 8129.4  | 8129.4  | 8129.4  | 8129.4  | 8129.4  | 8129.4  | 8129.4  | 8129.4  | 8129.4  |
| 2.5°  | 9326.9  | 9320.2  | 9357.1  | 9231.3  | 9145.8  | 9030.1  | 8877.4  | 8682.9  | 8473.2  | 8251.8  |
| 5°    | 10167.2 | 10108.5 | 10147.1 | 10053.2 | 9959.2  | 9784.8  | 9558.4  | 9241.4  | 8854.0  | 8412.9  |
| 7.5°  | 10034.7 | 9994.5  | 10093.4 | 10177.3 | 10247.7 | 10225.9 | 10059.9 | 9727.8  | 9228.0  | 8587.3  |
| 10°   | 8966.3  | 8921.1  | 9060.3  | 9350.4  | 9776.4  | 10147.1 | 10348.4 | 10142.1 | 9610.4  | 8778.5  |
| 12.5° | 8023.7  | 8001.9  | 8094.2  | 8329.0  | 8802.0  | 9513.1  | 10311.5 | 10504.3 | 10007.9 | 9004.9  |
| 15°   | 7621.2  | 7594.4  | 7653.1  | 7772.2  | 8074.1  | 8736.6  | 9976.0  | 10752.6 | 10398.7 | 9266.6  |
| 17.5° | 7532.3  | 7502.1  | 7527.3  | 7589.4  | 7783.9  | 8288.7  | 9469.5  | 10875.0 | 10806.2 | 9558.4  |
| 20°   | 7696.7  | 7671.5  | 7674.9  | 7671.5  | 7807.4  | 8208.2  | 9117.3  | 10828.0 | 11161.8 | 9826.7  |
| 22.5° | 8094.2  | 8052.3  | 8053.9  | 7965.0  | 8038.8  | 8349.1  | 9025.0  | 10702.2 | 11478.8 | 10061.6 |
| 25°   | 8741.6  | 8666.1  | 8681.2  | 8454.8  | 8434.7  | 8664.4  | 9169.3  | 10605.0 | 11794.1 | 10249.4 |
| 27.5° | 9627.2  | 9541.6  | 9496.3  | 9159.2  | 8998.2  | 9112.3  | 9462.8  | 10638.5 | 12092.6 | 10412.1 |
| 30°   | 10734.1 | 10630.1 | 10537.9 | 10059.9 | 9768.0  | 9726.1  | 9919.0  | 10859.9 | 12444.9 | 10583.2 |
| 32.5° | 12091.0 | 11970.2 | 11802.5 | 11168.5 | 10757.6 | 10537.9 | 10509.4 | 11254.0 | 12857.5 | 10801.2 |
| 35°   | 13706.1 | 13548.5 | 13310.3 | 12490.1 | 11970.2 | 11520.7 | 11287.6 | 11822.6 | 13422.7 | 11129.9 |
| 37.5° | 15369.9 | 15192.1 | 14974.1 | 13998.0 | 13358.9 | 12696.4 | 12236.9 | 12594.1 | 14175.7 | 11576.1 |
| 40°   | 16904.6 | 16705.0 | 16502.0 | 15633.2 | 14947.3 | 14148.9 | 13399.2 | 13570.3 | 15096.5 | 12109.4 |
| 42.5° | 17810.2 | 17662.6 | 17585.5 | 17115.9 | 16585.9 | 15775.8 | 14844.9 | 14727.5 | 16131.4 | 12723.3 |
| 45°   | 17770.0 | 17709.6 | 17947.8 | 18142.3 | 18016.5 | 17567.0 | 16538.9 | 16007.2 | 17169.5 | 13255.0 |
| 47.5° | 16820.7 | 16860.9 | 17392.6 | 18486.2 | 18967.5 | 19202.3 | 18467.7 | 17263.5 | 18071.9 | 13652.4 |
| 50°   | 14237.8 | 14271.3 | 15502.4 | 17860.6 | 19212.4 | 20535.7 | 20381.4 | 18489.5 | 18771.3 | 13895.6 |
| 52.5° | 12193.3 | 12215.1 | 12743.4 | 16005.6 | 18404.0 | 21206.6 | 22105.6 | 19645.1 | 19282.8 | 13962.7 |
| 55°   | 9184.4  | 9259.8  | 9851.9  | 12557.2 | 16300.8 | 20674.9 | 23155.5 | 20835.9 | 19606.5 | 13969.4 |
| 57.5° | 5365.4  | 5447.6  | 6178.8  | 8523.6  | 12669.6 | 18821.6 | 23314.8 | 21892.6 | 19826.2 | 13915.8 |
| 60°   | 2628.2  | 2663.4  | 2982.1  | 4479.8  | 7812.4  | 15250.8 | 22033.4 | 22404.1 | 19948.7 | 13887.3 |
| 62.5° | 1771.1  | 1766.1  | 1779.5  | 2210.6  | 3849.2  | 9798.2  | 19363.3 | 21508.5 | 19883.3 | 13778.2 |
| 65°   | 1522.9  | 1504.5  | 1454.1  | 1551.4  | 1994.2  | 4481.5  | 14960.7 | 18835.0 | 19385.1 | 13504.9 |
| 67.5° | 1316.6  | 1318.3  | 1320.0  | 1289.8  | 1423.9  | 2068.0  | 9142.4  | 14836.6 | 17597.2 | 12210.1 |
| 70°   | 1090.2  | 1105.3  | 1112.0  | 1112.0  | 1160.6  | 1356.9  | 3902.9  | 10168.9 | 13880.5 | 9573.5  |
| 72.5° | 992.9   | 961.0   | 964.4   | 947.6   | 947.6   | 1033.2  | 1571.5  | 5764.6  | 8744.9  | 5385.5  |
| 75°   | 810.1   | 830.2   | 833.6   | 821.8   | 783.3   | 788.3   | 932.5   | 2418.5  | 3741.8  | 2234.0  |
| 77.5° | 699.4   | 699.4   | 706.1   | 697.7   | 667.5   | 590.4   | 622.2   | 937.6   | 1273.0  | 915.8   |
| 80°   | 561.9   | 560.2   | 588.7   | 605.5   | 558.5   | 436.1   | 397.5   | 518.3   | 565.2   | 402.5   |
| 82.5° | 273.4   | 290.2   | 404.2   | 461.2   | 424.3   | 315.3   | 243.2   | 322.0   | 301.9   | 177.8   |
| 85°   | 159.3   | 150.9   | 181.1   | 256.6   | 243.2   | 174.4   | 117.4   | 167.7   | 157.7   | 90.6    |
| 87.5° | 50.3    | 47.0    | 36.9    | 87.2    | 70.4    | 48.6    | 31.9    | 48.6    | 43.6    | 20.1    |
| 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):**

| 90°    |       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 8129.4 | 0°    | 8129.4 | 8129.4 | 8129.4 | 8129.4 | 8129.4 | 8129.4 | 8129.4 | 8129.4 | 8129.4 | 8129.4 |
| 8156.2 | 2.5°  | 8037.2 | 7839.3 | 7643.0 | 7463.6 | 7354.5 | 7284.1 | 7213.7 | 7134.8 | 7104.6 | 7059.4 |
| 8178.1 | 5°    | 7956.7 | 7574.3 | 7233.8 | 6940.3 | 6673.6 | 6463.9 | 6252.6 | 6081.5 | 6004.4 | 6056.4 |
| 8246.8 | 7.5°  | 7909.7 | 7356.2 | 6831.3 | 6292.9 | 5774.6 | 5360.3 | 4999.7 | 4746.5 | 4632.4 | 4661.0 |
| 8313.9 | 10°   | 7867.8 | 7109.7 | 6309.6 | 5459.3 | 4714.6 | 4201.4 | 3832.4 | 3639.5 | 3567.4 | 3582.5 |
| 8404.5 | 12.5° | 7829.2 | 6832.9 | 5680.7 | 4562.0 | 3770.4 | 3431.6 | 3325.9 | 3327.6 | 3341.0 | 3351.1 |
| 8548.7 | 15°   | 7822.5 | 6499.2 | 4977.9 | 3777.1 | 3260.5 | 3238.7 | 3352.7 | 3424.9 | 3463.4 | 3475.2 |
| 8669.5 | 17.5° | 7812.4 | 6100.0 | 4261.8 | 3242.0 | 3136.4 | 3284.0 | 3389.6 | 3436.6 | 3466.8 | 3468.5 |
| 8786.9 | 20°   | 7772.2 | 5593.5 | 3601.0 | 2987.1 | 3109.5 | 3237.0 | 3302.4 | 3339.3 | 3364.5 | 3372.9 |
| 8875.8 | 22.5° | 7648.1 | 5029.9 | 3086.1 | 2873.1 | 3002.2 | 3104.5 | 3181.7 | 3223.6 | 3238.7 | 3248.7 |
| 8892.5 | 25°   | 7425.0 | 4399.3 | 2730.5 | 2764.0 | 2852.9 | 2982.1 | 3044.1 | 3052.5 | 3047.5 | 3062.6 |
| 8850.6 | 27.5° | 7133.2 | 3723.4 | 2509.1 | 2616.4 | 2730.5 | 2841.2 | 2874.7 | 2869.7 | 2859.6 | 2876.4 |
| 8778.5 | 30°   | 6780.9 | 3116.2 | 2368.2 | 2450.4 | 2606.4 | 2707.0 | 2737.2 | 2725.5 | 2705.3 | 2723.8 |
| 8741.6 | 32.5° | 6408.6 | 2619.8 | 2252.5 | 2334.7 | 2504.1 | 2603.0 | 2633.2 | 2621.5 | 2606.4 | 2621.5 |
| 8783.5 | 35°   | 6061.4 | 2272.6 | 2145.1 | 2257.5 | 2423.6 | 2520.8 | 2559.4 | 2561.1 | 2561.1 | 2579.5 |
| 8894.2 | 37.5° | 5742.8 | 2069.7 | 2056.3 | 2208.9 | 2368.2 | 2455.4 | 2510.8 | 2514.1 | 2442.0 | 2447.0 |
| 9082.1 | 40°   | 5447.6 | 1984.1 | 2016.0 | 2177.0 | 2314.5 | 2398.4 | 2401.8 | 2213.9 | 2081.4 | 2078.1 |
| 9296.7 | 42.5° | 5206.0 | 1967.4 | 2027.7 | 2173.7 | 2276.0 | 2279.3 | 2042.8 | 1896.9 | 1860.0 | 1861.7 |
| 9494.7 | 45°   | 4979.6 | 1962.3 | 2054.6 | 2173.7 | 2218.9 | 1969.0 | 1809.7 | 1771.1 | 1774.5 | 1787.9 |
| 9583.6 | 47.5° | 4726.4 | 1942.2 | 2059.6 | 2143.5 | 2054.6 | 1751.0 | 1704.0 | 1687.3 | 1680.6 | 1683.9 |
| 9563.4 | 50°   | 4449.6 | 1870.1 | 1995.9 | 2083.1 | 1772.8 | 1657.1 | 1598.4 | 1593.3 | 1601.7 | 1606.8 |
| 9451.1 | 52.5° | 4157.8 | 1752.7 | 1886.9 | 1974.1 | 1643.7 | 1574.9 | 1509.5 | 1521.2 | 1558.1 | 1569.9 |
| 9333.6 | 55°   | 3966.6 | 1615.1 | 1742.6 | 1756.0 | 1553.1 | 1497.7 | 1442.4 | 1469.2 | 1538.0 | 1559.8 |
| 9263.2 | 57.5° | 3916.3 | 1469.2 | 1578.3 | 1563.2 | 1437.4 | 1430.7 | 1397.1 | 1420.6 | 1507.8 | 1539.7 |
| 9259.8 | 60°   | 3901.2 | 1338.4 | 1417.2 | 1405.5 | 1325.0 | 1356.9 | 1348.5 | 1360.2 | 1390.4 | 1400.5 |
| 9226.3 | 62.5° | 3783.8 | 1234.4 | 1273.0 | 1256.2 | 1224.4 | 1279.7 | 1299.8 | 1274.7 | 1298.2 | 1309.9 |
| 8996.5 | 65°   | 3485.2 | 1150.6 | 1132.1 | 1120.4 | 1133.8 | 1184.1 | 1224.4 | 1174.0 | 1195.8 | 1229.4 |
| 8111.0 | 67.5° | 2992.1 | 1036.5 | 986.2  | 999.6  | 1041.5 | 1068.4 | 1120.4 | 1063.3 | 1081.8 | 1138.8 |
| 6532.7 | 70°   | 2420.2 | 892.3  | 847.0  | 885.6  | 925.8  | 981.2  | 989.6  | 951.0  | 994.6  | 1058.3 |
| 3986.7 | 72.5° | 1712.4 | 746.4  | 714.5  | 793.3  | 806.7  | 878.9  | 860.4  | 842.0  | 902.3  | 924.1  |
| 1970.7 | 75°   | 1187.5 | 602.1  | 583.7  | 644.0  | 692.7  | 754.7  | 741.3  | 763.1  | 890.6  | 900.7  |
| 984.5  | 77.5° | 751.4  | 467.9  | 456.2  | 494.8  | 561.9  | 630.6  | 652.4  | 900.7  | 1521.2 | 1581.6 |
| 511.5  | 80°   | 436.1  | 348.9  | 335.4  | 365.6  | 424.3  | 488.1  | 629.0  | 1105.3 | 1003.0 | 991.2  |
| 229.8  | 82.5° | 243.2  | 239.8  | 223.1  | 231.5  | 283.4  | 352.2  | 888.9  | 778.2  | 632.3  | 652.4  |
| 92.2   | 85°   | 114.0  | 140.9  | 120.8  | 115.7  | 159.3  | 412.6  | 593.7  | 444.5  | 295.2  | 288.5  |
| 20.1   | 87.5° | 30.2   | 26.8   | 26.8   | 30.2   | 67.1   | 355.6  | 236.5  | 189.5  | 112.4  | 109.0  |
| 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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