

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: P954954

Luminaire Tested: **GALN-SB8A-760-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954954  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8A-760-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

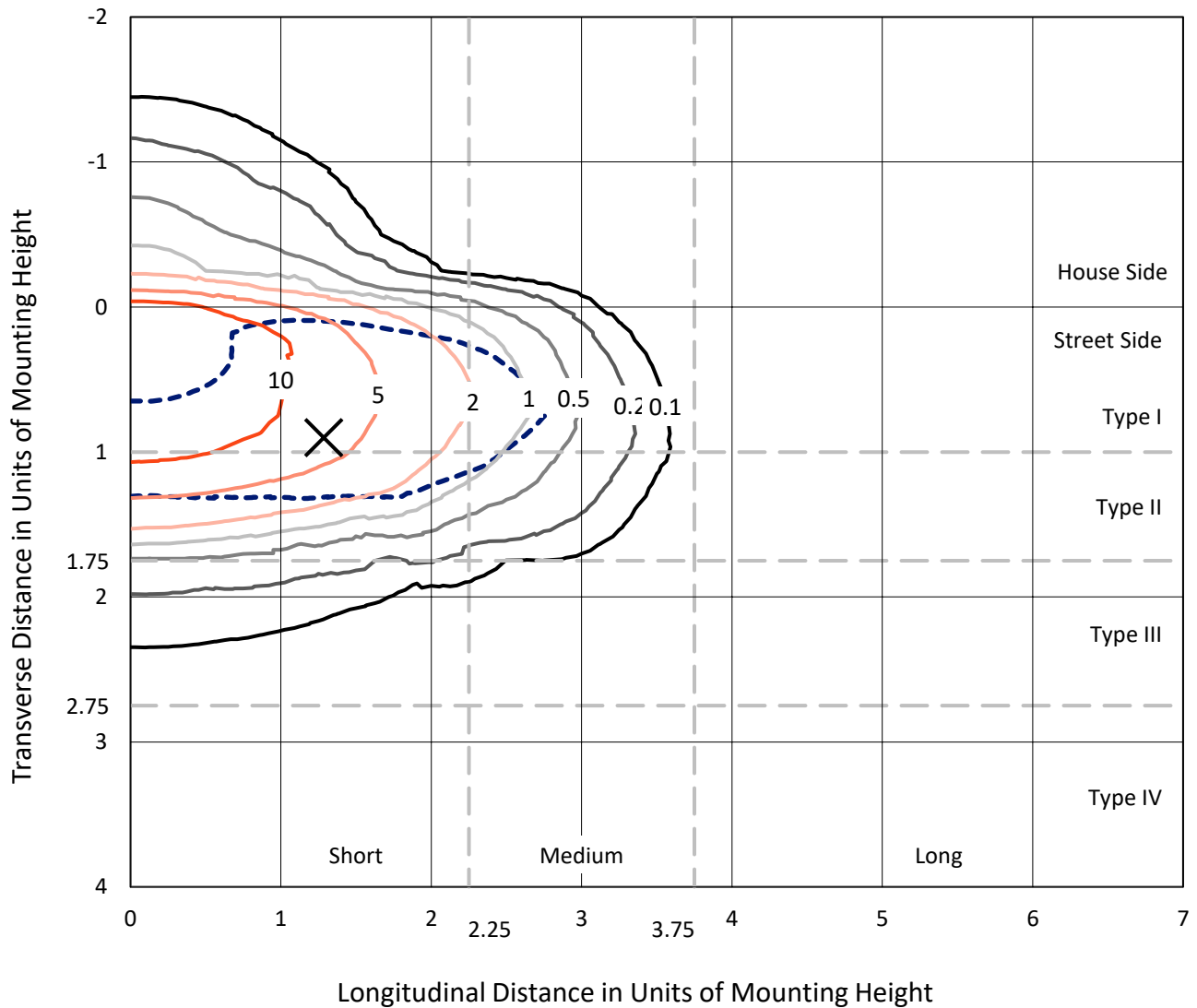
Lumens per Lamp: N/A  
Luminaire Lumens: 32720 lumens  
Efficiency: N/A  
Efficacy: 144.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

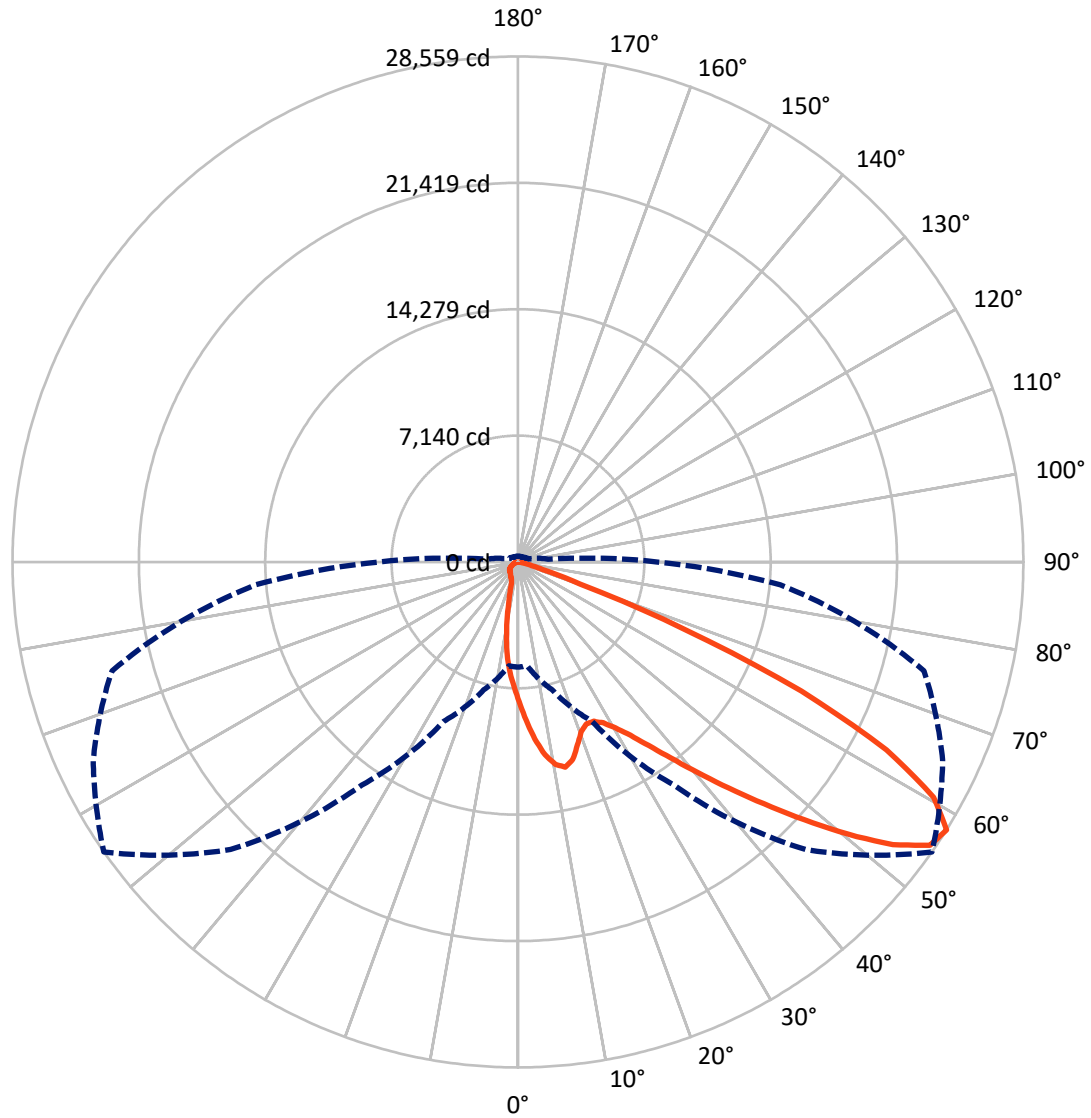
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 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    | 2555.3   | 0.0    | 2555.3  |
|                    | % Fixture | 7.8      | 0.0    | 7.8     |
| <b>Street Side</b> | Lumens    | 30164.7  | 0.0    | 30164.7 |
|                    | % Fixture | 92.2     | 0.0    | 92.2    |
| <b>Total</b>       | Lumens    | 32720.0  | 0.0    | 32720.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 733.6   | 2.2       |
| 10°-20°   | 1772.1  | 5.4       |
| 20°-30°   | 2835.3  | 8.7       |
| 30°-40°   | 4798.9  | 14.7      |
| 40°-50°   | 7878.8  | 24.1      |
| 50°-60°   | 8659.4  | 26.5      |
| 60°-70°   | 4967.0  | 15.2      |
| 70°-80°   | 1014.9  | 3.1       |
| 80°-90°   | 59.9    | 0.2       |
| 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°    | 32720.0 | 100.0     |
| 0°-180°   | 32720.0 | 100.0     |

**Coefficient of Utilization**



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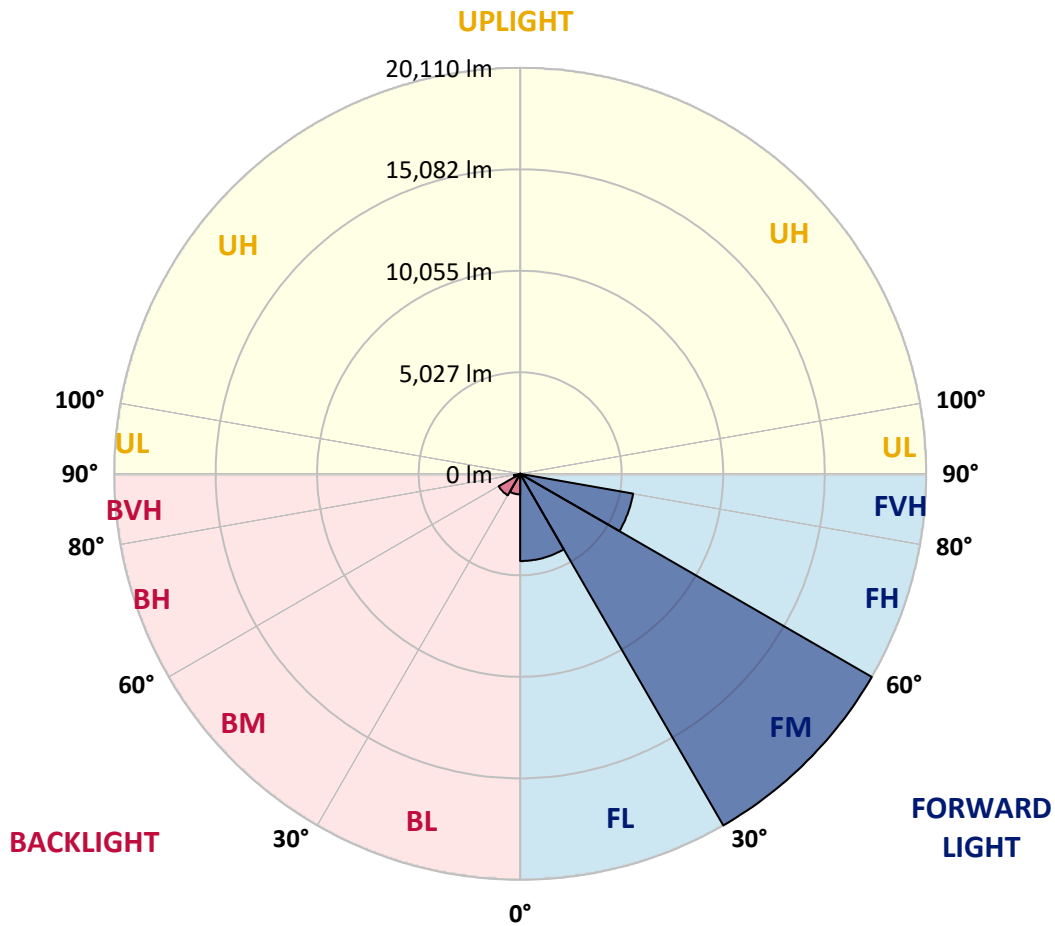
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4320.9  | 13.2      |                         |      |         |
| FM (30°-60°)   | 20110.0 | 61.5      |                         |      |         |
| FH (60°-80°)   | 5678.0  | 17.4      |                         |      | G3/7500 |
| FVH (80°-90°)  | 55.8    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 1020.1  | 3.1       | B3/2500                 |      |         |
| BM (30°-60°)   | 1227.2  | 3.8       | B2/2500                 |      |         |
| BH (60°-80°)   | 303.9   | 0.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 4.0     | 0.0       |                         |      | G0/10   |
| 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°    | 7884.7  | 7884.7  | 7884.7  | 7884.7  | 7884.7  | 7884.7  | 7884.7  | 7884.7  | 7884.7  | 7884.7  |
| 2.5°  | 9783.3  | 9660.2  | 9642.0  | 9617.8  | 9383.8  | 9208.2  | 8954.0  | 8675.6  | 8362.9  | 8044.1  |
| 5°    | 11302.5 | 11205.7 | 11187.5 | 11074.5 | 10808.2 | 10509.6 | 10057.7 | 9486.7  | 8903.6  | 8217.6  |
| 7.5°  | 11597.1 | 11578.9 | 11661.6 | 11657.6 | 11621.3 | 11385.2 | 11003.9 | 10324.0 | 9448.3  | 8431.5  |
| 10°   | 10283.6 | 10330.0 | 10576.2 | 10792.1 | 11375.1 | 11714.1 | 11631.4 | 11070.5 | 10009.2 | 8675.6  |
| 12.5° | 9087.2  | 9032.7  | 9208.2  | 9452.4  | 10130.3 | 11139.1 | 11891.6 | 11693.9 | 10650.8 | 8952.0  |
| 15°   | 8336.7  | 8314.5  | 8413.3  | 8526.3  | 9042.8  | 10059.7 | 11589.0 | 12200.3 | 11268.2 | 9278.9  |
| 17.5° | 8096.6  | 8078.4  | 8108.7  | 8136.9  | 8471.8  | 9258.7  | 10868.7 | 12511.0 | 11859.4 | 9652.1  |
| 20°   | 8292.3  | 8268.1  | 8264.0  | 8241.8  | 8381.0  | 8917.7  | 10217.0 | 12533.2 | 12390.0 | 9991.1  |
| 22.5° | 8863.2  | 8835.0  | 8736.1  | 8647.4  | 8659.5  | 8964.1  | 9926.5  | 12311.3 | 12789.5 | 10307.8 |
| 25°   | 9898.3  | 9851.9  | 9646.1  | 9347.5  | 9157.8  | 9286.9  | 9970.9  | 12018.7 | 13170.8 | 10556.0 |
| 27.5° | 11193.5 | 11133.0 | 10868.7 | 10424.9 | 9991.1  | 9833.7  | 10291.7 | 11817.0 | 13487.5 | 10745.6 |
| 30°   | 12462.6 | 12383.9 | 12123.7 | 11778.6 | 11145.1 | 10648.8 | 10870.7 | 11905.8 | 13864.8 | 10943.4 |
| 32.5° | 13832.5 | 13757.9 | 13412.9 | 12985.2 | 12460.6 | 11792.8 | 11663.6 | 12339.5 | 14326.9 | 11219.8 |
| 35°   | 15565.7 | 15448.6 | 14958.4 | 14375.3 | 13818.4 | 13142.5 | 12737.0 | 13088.1 | 14942.2 | 11641.5 |
| 37.5° | 17538.8 | 17381.5 | 16852.9 | 16047.9 | 15321.5 | 14564.9 | 14044.4 | 14117.0 | 15844.1 | 12206.4 |
| 40°   | 19399.1 | 19255.8 | 18767.6 | 18008.9 | 17097.0 | 16179.0 | 15624.2 | 15462.8 | 17088.9 | 12894.4 |
| 42.5° | 20514.8 | 20385.7 | 20179.9 | 19859.1 | 19090.4 | 18154.2 | 17454.1 | 17105.1 | 18561.8 | 13717.5 |
| 45°   | 20577.3 | 20464.3 | 20740.8 | 21114.0 | 20962.7 | 20339.3 | 19485.8 | 18846.2 | 20040.6 | 14490.3 |
| 47.5° | 19576.6 | 19499.9 | 20339.3 | 21642.6 | 22292.3 | 22554.6 | 21767.7 | 20442.1 | 21261.3 | 15045.1 |
| 50°   | 16848.8 | 16820.6 | 18547.6 | 20940.5 | 22798.7 | 24495.5 | 24174.7 | 21927.1 | 22207.5 | 15331.6 |
| 52.5° | 14609.3 | 14506.4 | 15513.2 | 18692.9 | 22062.3 | 25516.4 | 26527.2 | 23383.8 | 22869.3 | 15386.1 |
| 55°   | 11080.6 | 10989.8 | 12252.8 | 14932.1 | 19687.6 | 25153.2 | 28248.2 | 24886.9 | 23343.4 | 15246.9 |
| 57.5° | 5943.8  | 5887.3  | 7483.2  | 9938.6  | 15390.1 | 22974.2 | 28558.9 | 26476.7 | 23742.9 | 14877.7 |
| 60°   | 2314.2  | 2304.1  | 2901.3  | 4822.0  | 9353.5  | 18690.9 | 26991.2 | 27431.1 | 23993.1 | 14423.7 |
| 62.5° | 1400.2  | 1430.5  | 1527.3  | 2164.9  | 4132.0  | 11611.2 | 23377.7 | 26345.6 | 24160.6 | 14008.1 |
| 65°   | 1158.1  | 1160.1  | 1172.2  | 1487.0  | 1979.2  | 4858.3  | 17599.4 | 22774.5 | 23746.9 | 13267.6 |
| 67.5° | 992.7   | 1010.8  | 1057.2  | 1180.3  | 1396.2  | 2130.6  | 10132.3 | 17641.7 | 21231.0 | 11544.6 |
| 70°   | 782.8   | 807.0   | 865.5   | 970.5   | 1077.4  | 1333.6  | 3744.6  | 11738.3 | 16219.3 | 8701.8  |
| 72.5° | 659.7   | 657.7   | 688.0   | 788.9   | 855.5   | 938.2   | 1440.6  | 6577.3  | 9426.1  | 4154.2  |
| 75°   | 510.4   | 530.6   | 569.0   | 659.7   | 700.1   | 679.9   | 780.8   | 2402.9  | 3377.4  | 1259.0  |
| 77.5° | 399.5   | 415.6   | 449.9   | 538.7   | 579.0   | 482.2   | 449.9   | 859.5   | 1085.5  | 451.9   |
| 80°   | 179.6   | 193.7   | 306.7   | 397.5   | 472.1   | 332.9   | 244.1   | 439.8   | 482.2   | 205.8   |
| 82.5° | 32.3    | 54.5    | 179.6   | 209.8   | 242.1   | 215.9   | 127.1   | 228.0   | 236.1   | 82.7    |
| 85°   | 2.0     | 4.0     | 62.5    | 76.7    | 96.8    | 70.6    | 38.3    | 90.8    | 78.7    | 28.2    |
| 87.5° | 0.0     | 0.0     | 0.0     | 2.0     | 2.0     | 10.1    | 12.1    | 16.1    | 12.1    | 10.1    |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7884.7 | 0°    | 7884.7 | 7884.7 | 7884.7 | 7884.7 | 7884.7 | 7884.7 | 7884.7 | 7884.7 | 7884.7 | 7884.7 |
| 7902.9 | 2.5°  | 7757.6 | 7471.1 | 7192.7 | 6964.7 | 6831.5 | 6605.6 | 6456.3 | 6432.1 | 6369.5 | 6424.0 |
| 7923.0 | 5°    | 7608.3 | 7095.8 | 6577.3 | 6113.3 | 5732.0 | 5239.7 | 4872.5 | 4717.1 | 4581.9 | 4628.3 |
| 7975.5 | 7.5°  | 7537.7 | 6728.6 | 5921.6 | 5128.7 | 4313.6 | 3526.7 | 2941.6 | 2697.5 | 2511.9 | 2538.1 |
| 8034.0 | 10°   | 7442.9 | 6347.3 | 5082.3 | 3871.7 | 2780.2 | 2003.5 | 1599.9 | 1450.6 | 1367.9 | 1369.9 |
| 8120.8 | 12.5° | 7370.2 | 5891.3 | 4107.8 | 2624.9 | 1692.8 | 1279.1 | 1154.1 | 1117.7 | 1093.5 | 1095.5 |
| 8251.9 | 15°   | 7333.9 | 5354.7 | 3145.4 | 1749.2 | 1210.5 | 1083.4 | 1053.2 | 1037.0 | 1020.9 | 1018.9 |
| 8397.2 | 17.5° | 7273.4 | 4757.5 | 2302.1 | 1277.1 | 1059.2 | 1014.8 | 988.6  | 970.5  | 950.3  | 946.2  |
| 8522.3 | 20°   | 7182.6 | 4079.6 | 1682.7 | 1079.4 | 992.7  | 958.4  | 922.0  | 897.8  | 873.6  | 869.6  |
| 8601.0 | 22.5° | 7015.1 | 3363.3 | 1293.3 | 998.7  | 944.2  | 905.9  | 861.5  | 833.3  | 809.1  | 805.0  |
| 8562.6 | 25°   | 6704.4 | 2691.5 | 1089.5 | 948.3  | 901.9  | 855.5  | 807.0  | 768.7  | 746.5  | 742.5  |
| 8479.9 | 27.5° | 6311.0 | 2114.4 | 988.6  | 901.9  | 847.4  | 805.0  | 750.5  | 714.2  | 694.0  | 690.0  |
| 8371.0 | 30°   | 5847.0 | 1628.2 | 930.1  | 849.4  | 782.8  | 746.5  | 698.1  | 667.8  | 655.7  | 655.7  |
| 8294.3 | 32.5° | 5346.6 | 1301.3 | 905.9  | 796.9  | 726.3  | 686.0  | 647.6  | 635.5  | 631.5  | 629.5  |
| 8336.7 | 35°   | 4876.5 | 1129.8 | 893.8  | 754.6  | 675.9  | 637.6  | 621.4  | 623.4  | 631.5  | 631.5  |
| 8467.8 | 37.5° | 4458.9 | 1075.4 | 887.7  | 724.3  | 631.5  | 597.2  | 607.3  | 625.5  | 617.4  | 617.4  |
| 8697.8 | 40°   | 4081.6 | 1081.4 | 883.7  | 702.1  | 595.2  | 575.0  | 595.2  | 581.1  | 560.9  | 558.9  |
| 8978.2 | 42.5° | 3793.1 | 1131.9 | 875.6  | 684.0  | 573.0  | 558.9  | 550.8  | 528.6  | 526.6  | 530.6  |
| 9268.8 | 45°   | 3583.2 | 1176.3 | 873.6  | 675.9  | 548.8  | 522.6  | 512.5  | 490.3  | 530.6  | 540.7  |
| 9387.8 | 47.5° | 3335.1 | 1176.3 | 873.6  | 647.6  | 508.4  | 498.3  | 482.2  | 458.0  | 498.3  | 508.4  |
| 9274.8 | 50°   | 3014.3 | 1101.6 | 839.3  | 615.4  | 476.1  | 470.1  | 441.9  | 411.6  | 403.5  | 409.6  |
| 9010.5 | 52.5° | 2608.7 | 966.4  | 752.6  | 571.0  | 443.9  | 431.8  | 397.5  | 375.3  | 369.2  | 369.2  |
| 8536.4 | 55°   | 2146.7 | 809.1  | 635.5  | 506.4  | 409.6  | 387.4  | 363.2  | 353.1  | 347.0  | 343.0  |
| 7872.6 | 57.5° | 1745.2 | 663.8  | 510.4  | 449.9  | 377.3  | 349.0  | 341.0  | 328.9  | 318.8  | 312.7  |
| 7317.8 | 60°   | 1432.5 | 522.6  | 421.7  | 399.5  | 345.0  | 318.8  | 316.8  | 300.6  | 274.4  | 270.4  |
| 6859.8 | 62.5° | 1105.6 | 383.3  | 355.1  | 347.0  | 312.7  | 290.5  | 286.5  | 254.2  | 213.9  | 205.8  |
| 6210.1 | 65°   | 780.8  | 298.6  | 286.5  | 304.7  | 278.4  | 258.3  | 248.2  | 199.7  | 157.4  | 151.3  |
| 5197.3 | 67.5° | 548.8  | 250.2  | 226.0  | 266.3  | 242.1  | 215.9  | 209.8  | 169.5  | 131.1  | 127.1  |
| 3930.3 | 70°   | 391.4  | 203.8  | 185.6  | 228.0  | 193.7  | 189.7  | 177.5  | 141.2  | 106.9  | 102.9  |
| 1944.9 | 72.5° | 276.4  | 155.4  | 143.2  | 197.7  | 133.2  | 163.4  | 145.3  | 108.9  | 80.7   | 76.7   |
| 661.8  | 75°   | 203.8  | 111.0  | 100.9  | 115.0  | 96.8   | 123.1  | 102.9  | 72.6   | 50.4   | 48.4   |
| 298.6  | 77.5° | 149.3  | 70.6   | 60.5   | 56.5   | 56.5   | 76.7   | 56.5   | 30.3   | 22.2   | 20.2   |
| 151.3  | 80°   | 104.9  | 32.3   | 28.2   | 24.2   | 22.2   | 18.2   | 8.1    | 4.0    | 2.0    | 2.0    |
| 52.5   | 82.5° | 62.5   | 14.1   | 14.1   | 10.1   | 6.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 20.2   | 85°   | 14.1   | 6.1    | 6.1    | 2.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 8.1    | 87.5° | 2.0    | 2.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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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