

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: P953610

Luminaire Tested: **GALN-SB7A-840-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953610  
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-SB7A-840-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

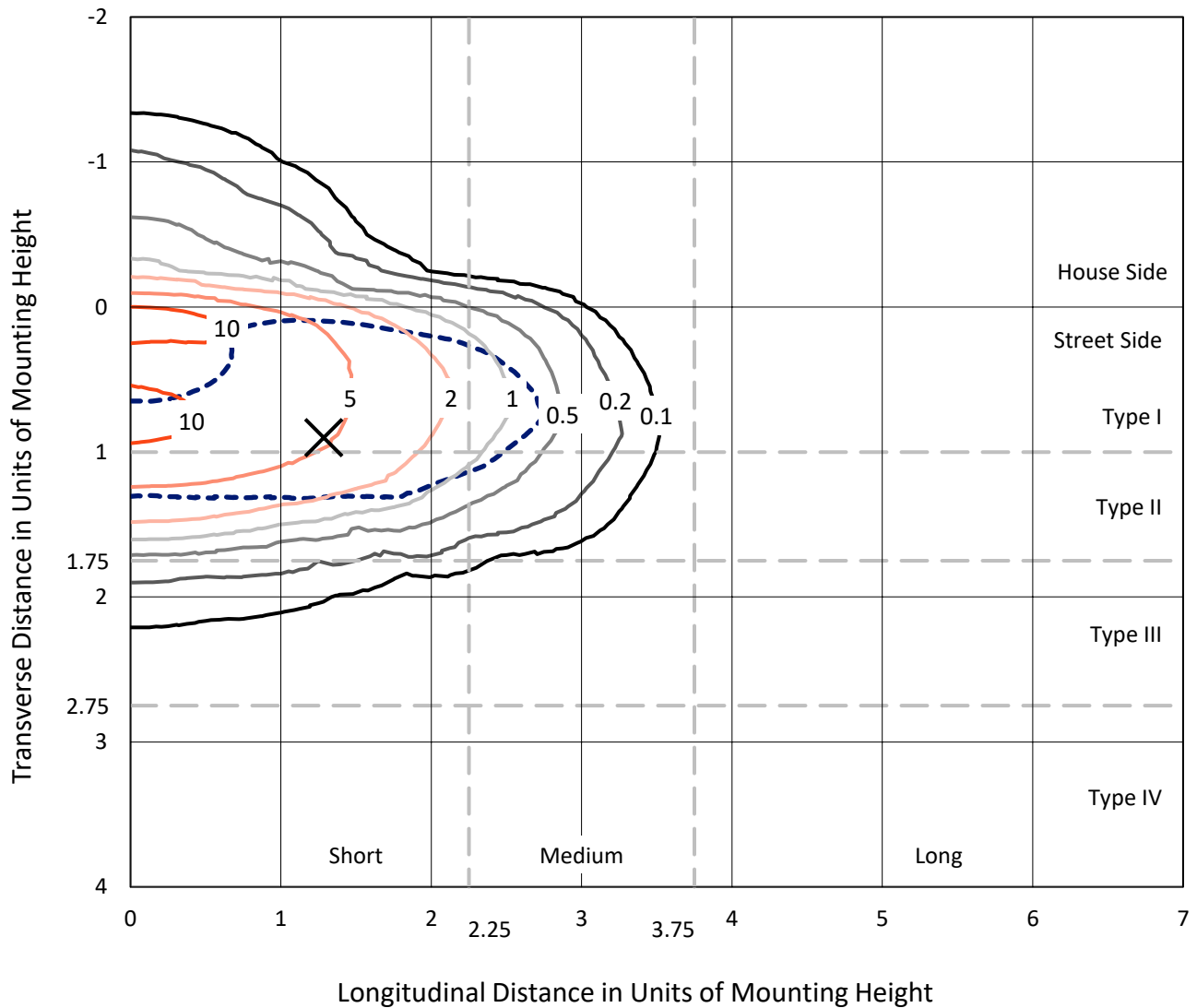
Lumens per Lamp: N/A  
Luminaire Lumens: 26017 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

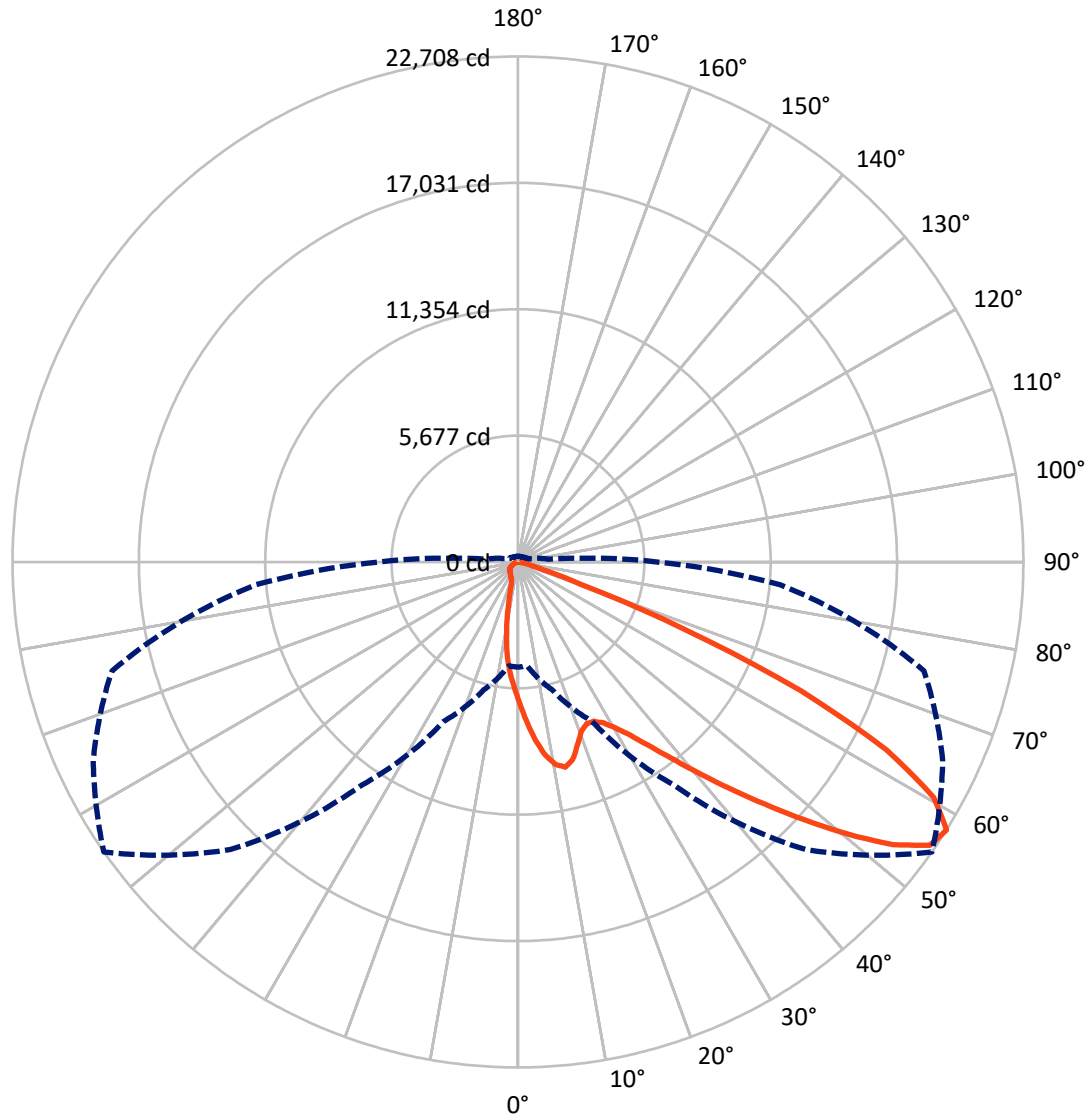
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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    | 2031.8   | 0.0    | 2031.8  |
|                    | % Fixture | 7.8      | 0.0    | 7.8     |
| <b>Street Side</b> | Lumens    | 23985.2  | 0.0    | 23985.2 |
|                    | % Fixture | 92.2     | 0.0    | 92.2    |
| <b>Total</b>       | Lumens    | 26017.0  | 0.0    | 26017.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 583.3   | 2.2       |
| 10°-20°   | 1409.1  | 5.4       |
| 20°-30°   | 2254.5  | 8.7       |
| 30°-40°   | 3815.8  | 14.7      |
| 40°-50°   | 6264.8  | 24.1      |
| 50°-60°   | 6885.4  | 26.5      |
| 60°-70°   | 3949.5  | 15.2      |
| 70°-80°   | 807.0   | 3.1       |
| 80°-90°   | 47.6    | 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°    | 26017.0 | 100.0     |
| 0°-180°   | 26017.0 | 100.0     |

**Coefficient of Utilization**



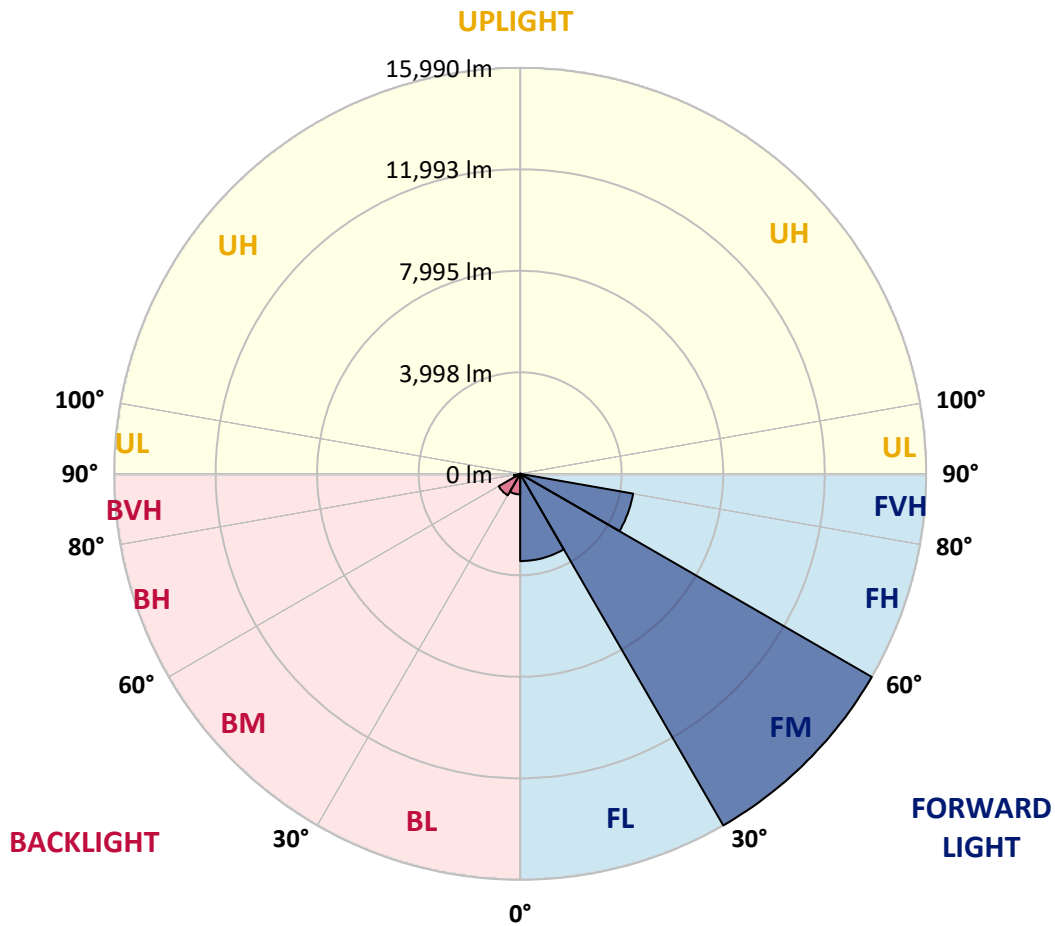
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3435.7  | 13.2      |                         |      |         |
| FM (30°-60°)   | 15990.2 | 61.5      |                         |      |         |
| FH (60°-80°)   | 4514.8  | 17.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 44.4    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 811.2   | 3.1       | B2/1000                 |      |         |
| BM (30°-60°)   | 975.8   | 3.8       | B1/1000                 |      |         |
| BH (60°-80°)   | 241.6   | 0.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 3.2     | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6269.5  | 6269.5  | 6269.5  | 6269.5  | 6269.5  | 6269.5  | 6269.5  | 6269.5  | 6269.5  | 6269.5  |
| 2.5°  | 7779.1  | 7681.2  | 7666.8  | 7647.5  | 7461.4  | 7321.9  | 7119.7  | 6898.3  | 6649.7  | 6396.2  |
| 5°    | 8987.1  | 8910.1  | 8895.6  | 8805.8  | 8594.0  | 8356.6  | 7997.2  | 7543.2  | 7079.6  | 6534.2  |
| 7.5°  | 9221.3  | 9206.9  | 9272.6  | 9269.4  | 9240.5  | 9052.9  | 8749.6  | 8209.0  | 7512.8  | 6704.2  |
| 10°   | 8176.9  | 8213.8  | 8409.5  | 8581.2  | 9044.8  | 9314.3  | 9248.6  | 8802.6  | 7958.7  | 6898.3  |
| 12.5° | 7225.6  | 7182.3  | 7321.9  | 7516.0  | 8055.0  | 8857.1  | 9455.5  | 9298.3  | 8468.9  | 7118.1  |
| 15°   | 6628.8  | 6611.2  | 6689.8  | 6779.6  | 7190.3  | 7998.9  | 9214.9  | 9701.0  | 8959.8  | 7378.0  |
| 17.5° | 6437.9  | 6423.5  | 6447.5  | 6470.0  | 6736.3  | 7362.0  | 8642.2  | 9948.0  | 9429.9  | 7674.8  |
| 20°   | 6593.5  | 6574.3  | 6571.1  | 6553.4  | 6664.1  | 7090.8  | 8124.0  | 9965.7  | 9851.8  | 7944.3  |
| 22.5° | 7047.5  | 7025.1  | 6946.5  | 6875.9  | 6885.5  | 7127.7  | 7893.0  | 9789.2  | 10169.4 | 8196.2  |
| 25°   | 7870.5  | 7833.6  | 7670.0  | 7432.5  | 7281.7  | 7384.4  | 7928.3  | 9556.6  | 10472.6 | 8393.5  |
| 27.5° | 8900.4  | 8852.3  | 8642.2  | 8289.2  | 7944.3  | 7819.2  | 8183.3  | 9396.2  | 10724.5 | 8544.3  |
| 30°   | 9909.5  | 9847.0  | 9640.0  | 9365.7  | 8861.9  | 8467.3  | 8643.8  | 9466.7  | 11024.5 | 8701.5  |
| 32.5° | 10998.8 | 10939.5 | 10665.1 | 10325.0 | 9907.9  | 9376.9  | 9274.2  | 9811.7  | 11391.9 | 8921.3  |
| 35°   | 12376.9 | 12283.8 | 11894.0 | 11430.4 | 10987.6 | 10450.2 | 10127.7 | 10406.8 | 11881.2 | 9256.6  |
| 37.5° | 13945.8 | 13820.7 | 13400.4 | 12760.3 | 12182.8 | 11581.2 | 11167.3 | 11225.0 | 12598.3 | 9705.8  |
| 40°   | 15425.0 | 15311.1 | 14922.8 | 14319.6 | 13594.5 | 12864.6 | 12423.4 | 12295.1 | 13588.1 | 10252.8 |
| 42.5° | 16312.1 | 16209.5 | 16045.8 | 15790.8 | 15179.5 | 14435.1 | 13878.5 | 13600.9 | 14759.2 | 10907.4 |
| 45°   | 16361.9 | 16272.0 | 16491.8 | 16788.6 | 16668.3 | 16172.6 | 15494.0 | 14985.4 | 15935.1 | 11521.8 |
| 47.5° | 15566.2 | 15505.2 | 16172.6 | 17208.9 | 17725.5 | 17934.0 | 17308.4 | 16254.4 | 16905.7 | 11963.0 |
| 50°   | 13397.2 | 13374.7 | 14748.0 | 16650.6 | 18128.2 | 19477.3 | 19222.3 | 17435.1 | 17658.1 | 12190.8 |
| 52.5° | 11616.5 | 11534.6 | 12335.2 | 14863.5 | 17542.6 | 20289.1 | 21092.8 | 18593.4 | 18184.3 | 12234.1 |
| 55°   | 8810.6  | 8738.4  | 9742.7  | 11873.1 | 15654.4 | 20000.3 | 22461.3 | 19788.6 | 18561.3 | 12123.4 |
| 57.5° | 4726.2  | 4681.2  | 5950.2  | 7902.6  | 12237.3 | 18267.7 | 22708.3 | 21052.7 | 18879.0 | 11829.8 |
| 60°   | 1840.1  | 1832.1  | 2306.9  | 3834.2  | 7437.4  | 14861.9 | 21461.8 | 21811.5 | 19077.9 | 11468.9 |
| 62.5° | 1113.4  | 1137.4  | 1214.4  | 1721.4  | 3285.5  | 9232.5  | 18588.6 | 20948.5 | 19211.0 | 11138.4 |
| 65°   | 920.8   | 922.5   | 932.1   | 1182.3  | 1573.8  | 3863.1  | 13994.0 | 18108.9 | 18882.2 | 10549.6 |
| 67.5° | 789.3   | 803.7   | 840.6   | 938.5   | 1110.1  | 1694.1  | 8056.6  | 14027.7 | 16881.6 | 9179.6  |
| 70°   | 622.5   | 641.7   | 688.2   | 771.7   | 856.7   | 1060.4  | 2977.5  | 9333.6  | 12896.7 | 6919.2  |
| 72.5° | 524.6   | 523.0   | 547.1   | 627.3   | 680.2   | 746.0   | 1145.4  | 5229.9  | 7495.1  | 3303.2  |
| 75°   | 405.9   | 421.9   | 452.4   | 524.6   | 556.7   | 540.6   | 620.8   | 1910.7  | 2685.5  | 1001.1  |
| 77.5° | 317.6   | 330.5   | 357.8   | 428.3   | 460.4   | 383.4   | 357.8   | 683.4   | 863.1   | 359.4   |
| 80°   | 142.8   | 154.0   | 243.8   | 316.0   | 375.4   | 264.7   | 194.1   | 349.7   | 383.4   | 163.6   |
| 82.5° | 25.7    | 43.3    | 142.8   | 166.8   | 192.5   | 171.7   | 101.1   | 181.3   | 187.7   | 65.8    |
| 85°   | 1.6     | 3.2     | 49.7    | 61.0    | 77.0    | 56.1    | 30.5    | 72.2    | 62.6    | 22.5    |
| 87.5° | 0.0     | 0.0     | 0.0     | 1.6     | 1.6     | 8.0     | 9.6     | 12.8    | 9.6     | 8.0     |
| 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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**CANDELA DISTRIBUTION (continued):**

| 90°    |       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6269.5 | 0°    | 6269.5 | 6269.5 | 6269.5 | 6269.5 | 6269.5 | 6269.5 | 6269.5 | 6269.5 | 6269.5 | 6269.5 |
| 6283.9 | 2.5°  | 6168.4 | 5940.6 | 5719.2 | 5537.9 | 5432.0 | 5252.4 | 5133.6 | 5114.4 | 5064.7 | 5108.0 |
| 6299.9 | 5°    | 6049.7 | 5642.2 | 5229.9 | 4860.9 | 4557.7 | 4166.3 | 3874.3 | 3750.8 | 3643.3 | 3680.2 |
| 6341.6 | 7.5°  | 5993.5 | 5350.2 | 4708.5 | 4078.0 | 3429.9 | 2804.2 | 2339.0 | 2144.9 | 1997.3 | 2018.2 |
| 6388.2 | 10°   | 5918.1 | 5047.0 | 4041.1 | 3078.6 | 2210.7 | 1593.0 | 1272.2 | 1153.5 | 1087.7 | 1089.3 |
| 6457.2 | 12.5° | 5860.4 | 4684.4 | 3266.3 | 2087.1 | 1346.0 | 1017.1 | 917.6  | 888.8  | 869.5  | 871.1  |
| 6561.4 | 15°   | 5831.5 | 4257.7 | 2501.0 | 1390.9 | 962.6  | 861.5  | 837.4  | 824.6  | 811.8  | 810.2  |
| 6676.9 | 17.5° | 5783.4 | 3782.8 | 1830.5 | 1015.5 | 842.2  | 806.9  | 786.1  | 771.7  | 755.6  | 752.4  |
| 6776.4 | 20°   | 5711.2 | 3243.8 | 1338.0 | 858.3  | 789.3  | 762.0  | 733.1  | 713.9  | 694.6  | 691.4  |
| 6839.0 | 22.5° | 5578.0 | 2674.3 | 1028.3 | 794.1  | 750.8  | 720.3  | 685.0  | 662.6  | 643.3  | 640.1  |
| 6808.5 | 25°   | 5331.0 | 2140.1 | 866.3  | 754.0  | 717.1  | 680.2  | 641.7  | 611.2  | 593.6  | 590.4  |
| 6742.7 | 27.5° | 5018.1 | 1681.3 | 786.1  | 717.1  | 673.8  | 640.1  | 596.8  | 567.9  | 551.9  | 548.7  |
| 6656.1 | 30°   | 4649.2 | 1294.6 | 739.6  | 675.4  | 622.5  | 593.6  | 555.1  | 531.0  | 521.4  | 521.4  |
| 6595.1 | 32.5° | 4251.3 | 1034.7 | 720.3  | 633.7  | 577.5  | 545.4  | 515.0  | 505.3  | 502.1  | 500.5  |
| 6628.8 | 35°   | 3877.5 | 898.4  | 710.7  | 600.0  | 537.4  | 506.9  | 494.1  | 495.7  | 502.1  | 502.1  |
| 6733.1 | 37.5° | 3545.4 | 855.1  | 705.9  | 575.9  | 502.1  | 474.9  | 482.9  | 497.3  | 490.9  | 490.9  |
| 6916.0 | 40°   | 3245.4 | 859.9  | 702.7  | 558.3  | 473.3  | 457.2  | 473.3  | 462.0  | 446.0  | 444.4  |
| 7139.0 | 42.5° | 3016.0 | 900.0  | 696.2  | 543.8  | 455.6  | 444.4  | 438.0  | 420.3  | 418.7  | 421.9  |
| 7370.0 | 45°   | 2849.2 | 935.3  | 694.6  | 537.4  | 436.4  | 415.5  | 407.5  | 389.8  | 421.9  | 429.9  |
| 7464.6 | 47.5° | 2651.8 | 935.3  | 694.6  | 515.0  | 404.3  | 396.3  | 383.4  | 364.2  | 396.3  | 404.3  |
| 7374.8 | 50°   | 2396.8 | 875.9  | 667.4  | 489.3  | 378.6  | 373.8  | 351.3  | 327.3  | 320.9  | 325.7  |
| 7164.6 | 52.5° | 2074.3 | 768.4  | 598.4  | 454.0  | 352.9  | 343.3  | 316.0  | 298.4  | 293.6  | 293.6  |
| 6787.6 | 55°   | 1706.9 | 643.3  | 505.3  | 402.7  | 325.7  | 308.0  | 288.8  | 280.7  | 275.9  | 272.7  |
| 6259.8 | 57.5° | 1387.7 | 527.8  | 405.9  | 357.8  | 300.0  | 277.5  | 271.1  | 261.5  | 253.5  | 248.7  |
| 5818.7 | 60°   | 1139.0 | 415.5  | 335.3  | 317.6  | 274.3  | 253.5  | 251.9  | 239.0  | 218.2  | 215.0  |
| 5454.5 | 62.5° | 879.1  | 304.8  | 282.4  | 275.9  | 248.7  | 231.0  | 227.8  | 202.1  | 170.1  | 163.6  |
| 4937.9 | 65°   | 620.8  | 237.4  | 227.8  | 242.2  | 221.4  | 205.3  | 197.3  | 158.8  | 125.1  | 120.3  |
| 4132.6 | 67.5° | 436.4  | 198.9  | 179.7  | 211.8  | 192.5  | 171.7  | 166.8  | 134.8  | 104.3  | 101.1  |
| 3125.1 | 70°   | 311.2  | 162.0  | 147.6  | 181.3  | 154.0  | 150.8  | 141.2  | 112.3  | 85.0   | 81.8   |
| 1546.5 | 72.5° | 219.8  | 123.5  | 113.9  | 157.2  | 105.9  | 129.9  | 115.5  | 86.6   | 64.2   | 61.0   |
| 526.2  | 75°   | 162.0  | 88.2   | 80.2   | 91.4   | 77.0   | 97.9   | 81.8   | 57.8   | 40.1   | 38.5   |
| 237.4  | 77.5° | 118.7  | 56.1   | 48.1   | 44.9   | 44.9   | 61.0   | 44.9   | 24.1   | 17.6   | 16.0   |
| 120.3  | 80°   | 83.4   | 25.7   | 22.5   | 19.3   | 17.6   | 14.4   | 6.4    | 3.2    | 1.6    | 1.6    |
| 41.7   | 82.5° | 49.7   | 11.2   | 11.2   | 8.0    | 4.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 16.0   | 85°   | 11.2   | 4.8    | 4.8    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 6.4    | 87.5° | 1.6    | 1.6    | 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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