

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: P955836

Luminaire Tested: **GALN-SB8C-935-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955836  
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-SB8C-935-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

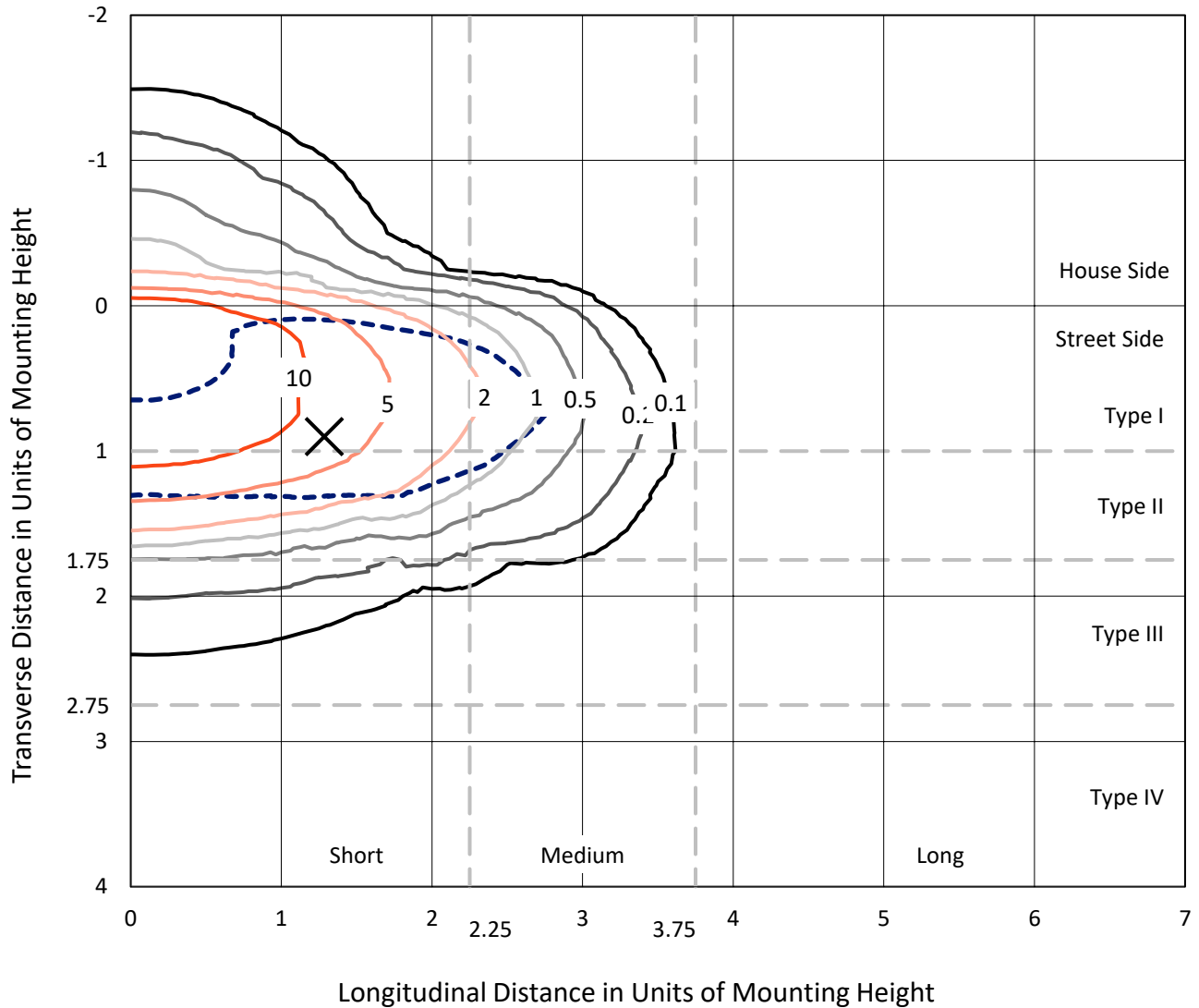
Lumens per Lamp: N/A  
Luminaire Lumens: 35919 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

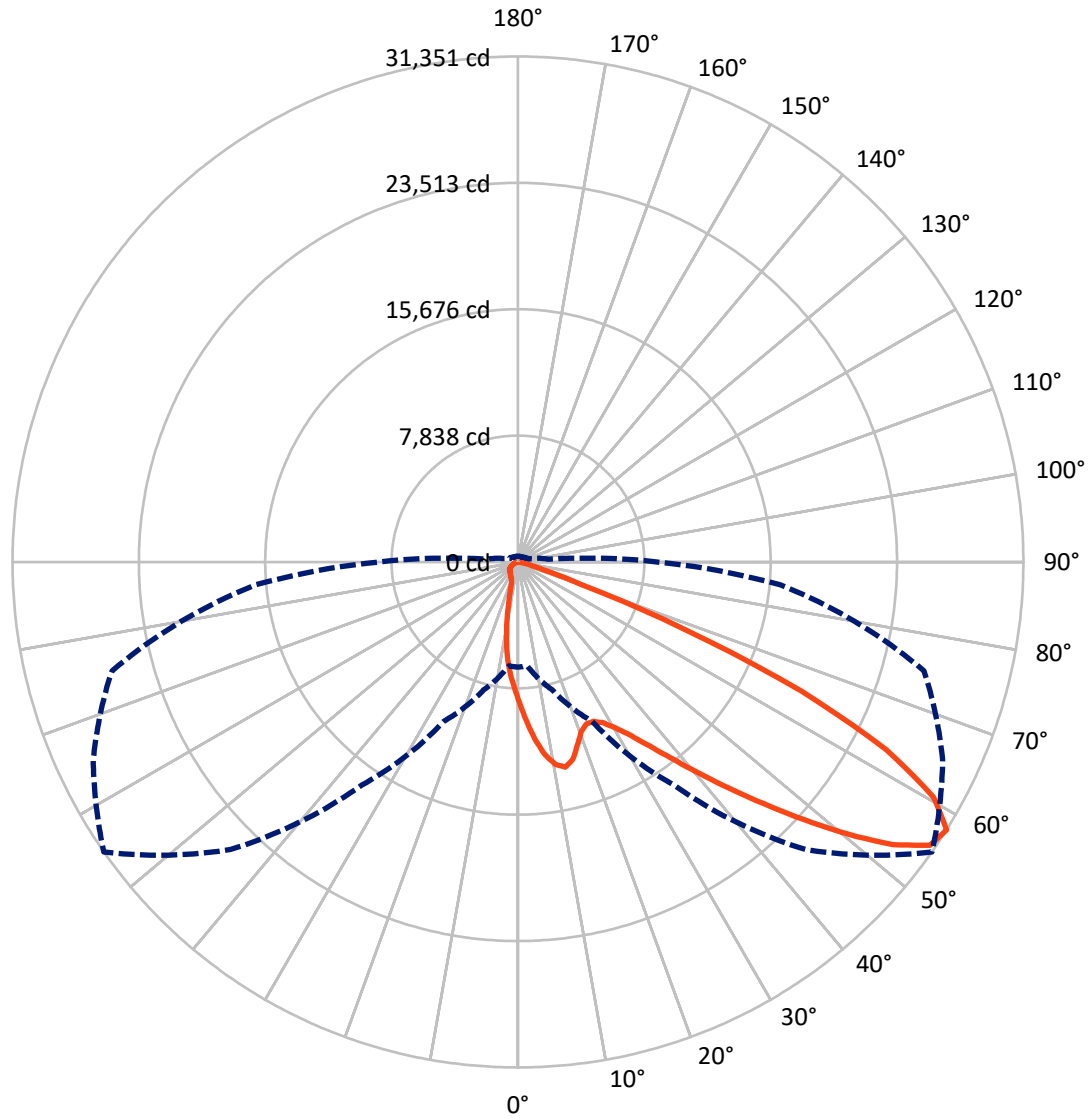
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.8 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    | 2805.1   | 0.0    | 2805.1  |
|                    | % Fixture | 7.8      | 0.0    | 7.8     |
| <b>Street Side</b> | Lumens    | 33113.9  | 0.0    | 33113.9 |
|                    | % Fixture | 92.2     | 0.0    | 92.2    |
| <b>Total</b>       | Lumens    | 35919.0  | 0.0    | 35919.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 805.4   | 2.2       |
| 10°-20°   | 1945.3  | 5.4       |
| 20°-30°   | 3112.5  | 8.7       |
| 30°-40°   | 5268.1  | 14.7      |
| 40°-50°   | 8649.1  | 24.1      |
| 50°-60°   | 9506.0  | 26.5      |
| 60°-70°   | 5452.6  | 15.2      |
| 70°-80°   | 1114.1  | 3.1       |
| 80°-90°   | 65.7    | 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°    | 35919.0 | 100.0     |
| 0°-180°   | 35919.0 | 100.0     |

**Coefficient of Utilization**



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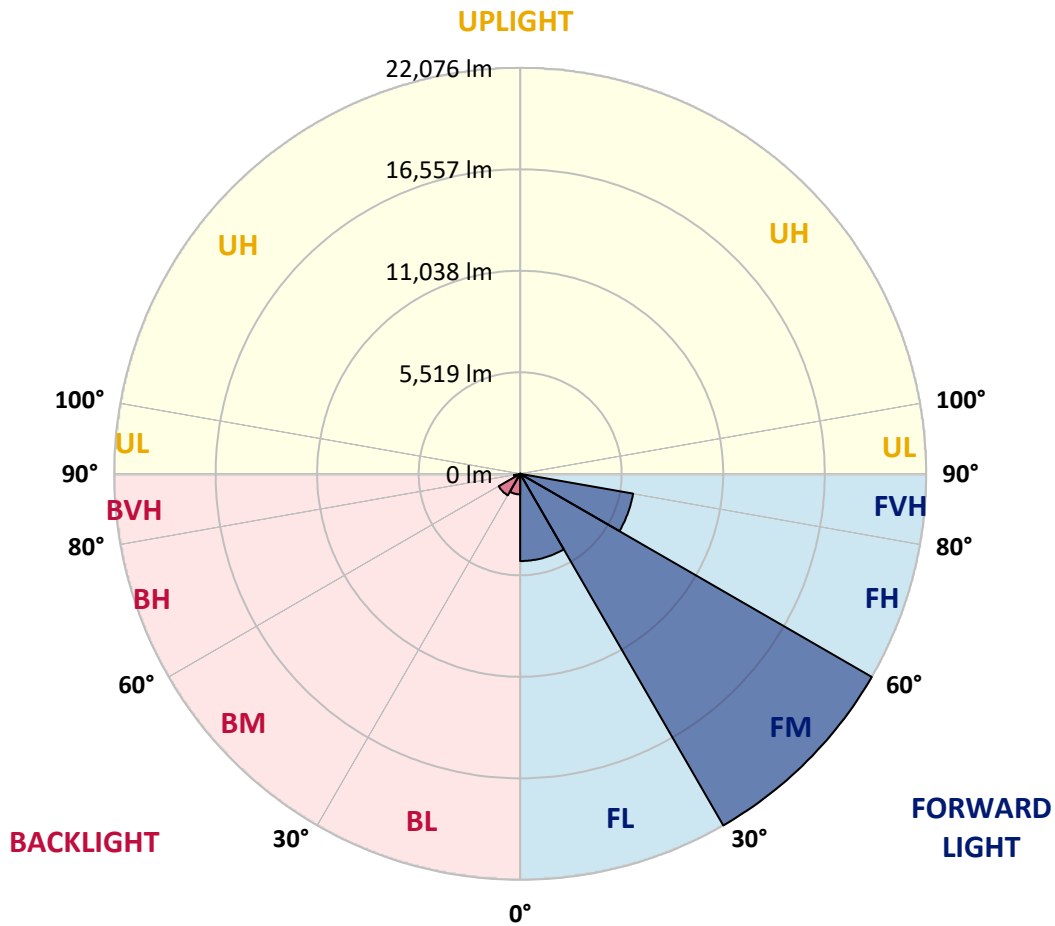
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4743.3  | 13.2      |                         |      |         |
| FM (30°-60°)   | 22076.1 | 61.5      |                         |      |         |
| FH (60°-80°)   | 6233.2  | 17.4      |                         |      | G3/7500 |
| FVH (80°-90°)  | 61.3    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 1119.9  | 3.1       | B3/2500                 |      |         |
| BM (30°-60°)   | 1347.2  | 3.8       | B2/2500                 |      |         |
| BH (60°-80°)   | 333.6   | 0.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 4.4     | 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°    | 8655.6  | 8655.6  | 8655.6  | 8655.6  | 8655.6  | 8655.6  | 8655.6  | 8655.6  | 8655.6  | 8655.6  |
| 2.5°  | 10739.8 | 10604.7 | 10584.7 | 10558.1 | 10301.2 | 10108.5 | 9829.5  | 9523.8  | 9180.5  | 8830.6  |
| 5°    | 12407.5 | 12301.2 | 12281.3 | 12157.3 | 11864.9 | 11537.1 | 11041.0 | 10414.2 | 9774.1  | 9021.0  |
| 7.5°  | 12730.9 | 12711.0 | 12801.8 | 12797.3 | 12757.5 | 12498.3 | 12079.7 | 11333.3 | 10372.1 | 9255.8  |
| 10°   | 11289.0 | 11340.0 | 11610.2 | 11847.2 | 12487.3 | 12859.4 | 12768.6 | 12152.8 | 10987.8 | 9523.8  |
| 12.5° | 9975.6  | 9915.8  | 10108.5 | 10376.5 | 11120.7 | 12228.1 | 13054.3 | 12837.2 | 11692.1 | 9827.2  |
| 15°   | 9151.7  | 9127.4  | 9235.9  | 9359.9  | 9926.9  | 11043.2 | 12722.0 | 13393.1 | 12369.9 | 10186.0 |
| 17.5° | 8888.2  | 8868.2  | 8901.4  | 8932.4  | 9300.1  | 10163.9 | 11931.3 | 13734.2 | 13018.8 | 10595.8 |
| 20°   | 9103.0  | 9076.4  | 9072.0  | 9047.6  | 9200.4  | 9789.6  | 11215.9 | 13758.6 | 13601.3 | 10967.9 |
| 22.5° | 9729.8  | 9698.8  | 9590.3  | 9492.8  | 9506.1  | 9840.5  | 10897.0 | 13515.0 | 14039.9 | 11315.6 |
| 25°   | 10866.0 | 10815.1 | 10589.1 | 10261.4 | 10053.2 | 10194.9 | 10945.7 | 13193.8 | 14458.5 | 11588.0 |
| 27.5° | 12287.9 | 12221.5 | 11931.3 | 11444.1 | 10967.9 | 10795.1 | 11297.9 | 12972.3 | 14806.2 | 11796.2 |
| 30°   | 13681.1 | 13594.7 | 13309.0 | 12930.2 | 12234.8 | 11689.9 | 11933.6 | 13069.8 | 15220.4 | 12013.3 |
| 32.5° | 15184.9 | 15103.0 | 14724.3 | 14254.7 | 13678.9 | 12945.7 | 12804.0 | 13546.0 | 15727.6 | 12316.7 |
| 35°   | 17087.5 | 16959.0 | 16420.8 | 15780.7 | 15169.4 | 14427.5 | 13982.3 | 14367.7 | 16403.1 | 12779.6 |
| 37.5° | 19253.6 | 19080.8 | 18500.6 | 17616.8 | 16819.5 | 15988.9 | 15417.5 | 15497.2 | 17393.1 | 13399.8 |
| 40°   | 21295.7 | 21138.4 | 20602.4 | 19769.7 | 18768.6 | 17760.8 | 17151.7 | 16974.5 | 18759.7 | 14155.0 |
| 42.5° | 22520.5 | 22378.7 | 22152.8 | 21800.7 | 20956.8 | 19929.1 | 19160.6 | 18777.4 | 20376.5 | 15058.7 |
| 45°   | 22589.2 | 22465.1 | 22768.6 | 23178.3 | 23012.2 | 22327.8 | 21390.9 | 20688.8 | 22000.0 | 15907.0 |
| 47.5° | 21490.6 | 21406.4 | 22327.8 | 23758.6 | 24471.8 | 24759.7 | 23895.9 | 22440.8 | 23340.0 | 16516.1 |
| 50°   | 18496.1 | 18465.1 | 20361.0 | 22987.8 | 25027.7 | 26890.4 | 26538.2 | 24070.9 | 24378.7 | 16830.6 |
| 52.5° | 16037.7 | 15924.7 | 17029.9 | 20520.5 | 24219.3 | 28011.1 | 29120.7 | 25670.0 | 25105.2 | 16890.4 |
| 55°   | 12163.9 | 12064.2 | 13450.7 | 16392.0 | 21612.4 | 27612.4 | 31010.0 | 27320.0 | 25625.7 | 16737.5 |
| 57.5° | 6524.9  | 6462.9  | 8214.8  | 10910.3 | 16894.8 | 25220.4 | 31351.1 | 29065.3 | 26064.2 | 16332.2 |
| 60°   | 2540.4  | 2529.3  | 3184.9  | 5293.5  | 10268.0 | 20518.3 | 29630.1 | 30113.0 | 26338.9 | 15833.9 |
| 62.5° | 1537.1  | 1570.3  | 1676.6  | 2376.5  | 4536.0  | 12746.4 | 25663.3 | 28921.4 | 26522.7 | 15377.6 |
| 65°   | 1271.3  | 1273.5  | 1286.8  | 1632.3  | 2172.8  | 5333.3  | 19320.0 | 25001.1 | 26068.7 | 14564.8 |
| 67.5° | 1089.7  | 1109.6  | 1160.6  | 1295.7  | 1532.7  | 2338.9  | 11122.9 | 19366.6 | 23306.8 | 12673.3 |
| 70°   | 859.4   | 885.9   | 950.2   | 1065.3  | 1182.7  | 1464.0  | 4110.7  | 12885.9 | 17805.1 | 9552.6  |
| 72.5° | 724.3   | 722.0   | 755.3   | 866.0   | 939.1   | 1029.9  | 1581.4  | 7220.4  | 10347.7 | 4560.4  |
| 75°   | 560.4   | 582.5   | 624.6   | 724.3   | 768.5   | 746.4   | 857.1   | 2637.9  | 3707.6  | 1382.1  |
| 77.5° | 438.5   | 456.3   | 493.9   | 591.4   | 635.7   | 529.3   | 493.9   | 943.5   | 1191.6  | 496.1   |
| 80°   | 197.1   | 212.6   | 336.7   | 436.3   | 518.3   | 365.4   | 268.0   | 482.8   | 529.3   | 225.9   |
| 82.5° | 35.4    | 59.8    | 197.1   | 230.3   | 265.8   | 237.0   | 139.5   | 250.3   | 259.1   | 90.8    |
| 85°   | 2.2     | 4.4     | 68.7    | 84.2    | 106.3   | 77.5    | 42.1    | 99.7    | 86.4    | 31.0    |
| 87.5° | 0.0     | 0.0     | 0.0     | 2.2     | 2.2     | 11.1    | 13.3    | 17.7    | 13.3    | 11.1    |
| 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°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 8655.6  | 0°    | 8655.6 | 8655.6 | 8655.6 | 8655.6 | 8655.6 | 8655.6 | 8655.6 | 8655.6 | 8655.6 | 8655.6 |
| 8675.5  | 2.5°  | 8516.1 | 8201.6 | 7895.9 | 7645.6 | 7499.4 | 7251.4 | 7087.5 | 7060.9 | 6992.2 | 7052.0 |
| 8697.7  | 5°    | 8352.2 | 7789.6 | 7220.4 | 6711.0 | 6292.4 | 5751.9 | 5348.8 | 5178.3 | 5029.9 | 5080.8 |
| 8755.3  | 7.5°  | 8274.6 | 7386.5 | 6500.6 | 5630.1 | 4735.3 | 3871.5 | 3229.2 | 2961.2 | 2757.5 | 2786.3 |
| 8819.5  | 10°   | 8170.5 | 6967.9 | 5579.2 | 4250.3 | 3052.0 | 2199.3 | 1756.4 | 1592.5 | 1501.7 | 1503.9 |
| 8914.7  | 12.5° | 8090.8 | 6467.3 | 4509.4 | 2881.5 | 1858.3 | 1404.2 | 1266.9 | 1227.0 | 1200.4 | 1202.7 |
| 9058.7  | 15°   | 8050.9 | 5878.2 | 3452.9 | 1920.3 | 1328.9 | 1189.4 | 1156.1 | 1138.4 | 1120.7 | 1118.5 |
| 9218.2  | 17.5° | 7984.5 | 5222.6 | 2527.1 | 1402.0 | 1162.8 | 1114.1 | 1085.3 | 1065.3 | 1043.2 | 1038.8 |
| 9355.5  | 20°   | 7884.8 | 4478.4 | 1847.2 | 1184.9 | 1089.7 | 1052.0 | 1012.2 | 985.6  | 959.0  | 954.6  |
| 9441.9  | 22.5° | 7701.0 | 3692.1 | 1419.7 | 1096.3 | 1036.5 | 994.5  | 945.7  | 914.7  | 888.2  | 883.7  |
| 9399.8  | 25°   | 7359.9 | 2954.6 | 1196.0 | 1041.0 | 990.0  | 939.1  | 885.9  | 843.9  | 819.5  | 815.1  |
| 9309.0  | 27.5° | 6928.0 | 2321.2 | 1085.3 | 990.0  | 930.2  | 883.7  | 823.9  | 784.1  | 761.9  | 757.5  |
| 9189.4  | 30°   | 6418.6 | 1787.4 | 1021.0 | 932.4  | 859.4  | 819.5  | 766.3  | 733.1  | 719.8  | 719.8  |
| 9105.2  | 32.5° | 5869.3 | 1428.6 | 994.5  | 874.9  | 797.3  | 753.0  | 711.0  | 697.7  | 693.2  | 691.0  |
| 9151.7  | 35°   | 5353.3 | 1240.3 | 981.2  | 828.4  | 742.0  | 699.9  | 682.2  | 684.4  | 693.2  | 693.2  |
| 9295.7  | 37.5° | 4894.8 | 1180.5 | 974.5  | 795.1  | 693.2  | 655.6  | 666.7  | 686.6  | 677.7  | 677.7  |
| 9548.2  | 40°   | 4480.6 | 1187.2 | 970.1  | 770.8  | 653.4  | 631.2  | 653.4  | 637.9  | 615.7  | 613.5  |
| 9856.0  | 42.5° | 4163.9 | 1242.5 | 961.2  | 750.8  | 629.0  | 613.5  | 604.7  | 580.3  | 578.1  | 582.5  |
| 10175.0 | 45°   | 3933.6 | 1291.3 | 959.0  | 742.0  | 602.4  | 573.6  | 562.6  | 538.2  | 582.5  | 593.6  |
| 10305.6 | 47.5° | 3661.1 | 1291.3 | 959.0  | 711.0  | 558.1  | 547.1  | 529.3  | 502.8  | 547.1  | 558.1  |
| 10181.6 | 50°   | 3309.0 | 1209.3 | 921.4  | 675.5  | 522.7  | 516.1  | 485.0  | 451.8  | 443.0  | 449.6  |
| 9891.5  | 52.5° | 2863.8 | 1060.9 | 826.1  | 626.8  | 487.3  | 474.0  | 436.3  | 412.0  | 405.3  | 405.3  |
| 9371.0  | 55°   | 2356.6 | 888.2  | 697.7  | 555.9  | 449.6  | 425.2  | 398.7  | 387.6  | 381.0  | 376.5  |
| 8642.3  | 57.5° | 1915.8 | 728.7  | 560.4  | 493.9  | 414.2  | 383.2  | 374.3  | 361.0  | 349.9  | 343.3  |
| 8033.2  | 60°   | 1572.5 | 573.6  | 462.9  | 438.5  | 378.7  | 349.9  | 347.7  | 330.0  | 301.2  | 296.8  |
| 7530.5  | 62.5° | 1213.7 | 420.8  | 389.8  | 381.0  | 343.3  | 318.9  | 314.5  | 279.1  | 234.8  | 225.9  |
| 6817.3  | 65°   | 857.1  | 327.8  | 314.5  | 334.4  | 305.6  | 283.5  | 272.4  | 219.3  | 172.8  | 166.1  |
| 5705.4  | 67.5° | 602.4  | 274.6  | 248.1  | 292.4  | 265.8  | 237.0  | 230.3  | 186.0  | 144.0  | 139.5  |
| 4314.5  | 70°   | 429.7  | 223.7  | 203.8  | 250.3  | 212.6  | 208.2  | 194.9  | 155.0  | 117.4  | 113.0  |
| 2135.1  | 72.5° | 303.4  | 170.5  | 157.3  | 217.1  | 146.2  | 179.4  | 159.5  | 119.6  | 88.6   | 84.2   |
| 726.5   | 75°   | 223.7  | 121.8  | 110.7  | 126.2  | 106.3  | 135.1  | 113.0  | 79.7   | 55.4   | 53.2   |
| 327.8   | 77.5° | 163.9  | 77.5   | 66.4   | 62.0   | 62.0   | 84.2   | 62.0   | 33.2   | 24.4   | 22.1   |
| 166.1   | 80°   | 115.2  | 35.4   | 31.0   | 26.6   | 24.4   | 19.9   | 8.9    | 4.4    | 2.2    | 2.2    |
| 57.6    | 82.5° | 68.7   | 15.5   | 15.5   | 11.1   | 6.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 22.1    | 85°   | 15.5   | 6.6    | 6.6    | 2.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 8.9     | 87.5° | 2.2    | 2.2    | 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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