

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: P949908

Luminaire Tested: **GALN-SB4C-735-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949908  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4C-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

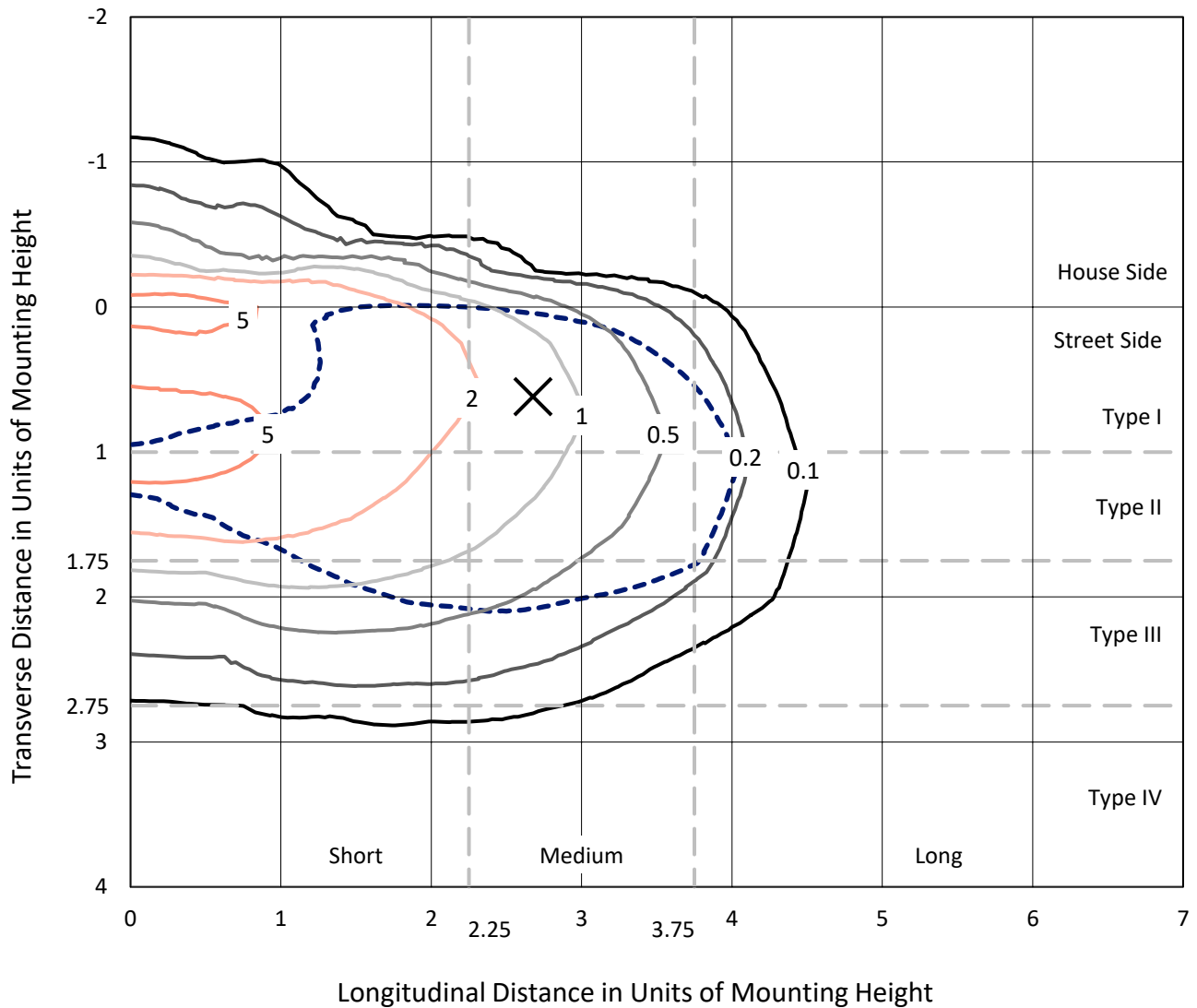
Lumens per Lamp: N/A  
Luminaire Lumens: 24988 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

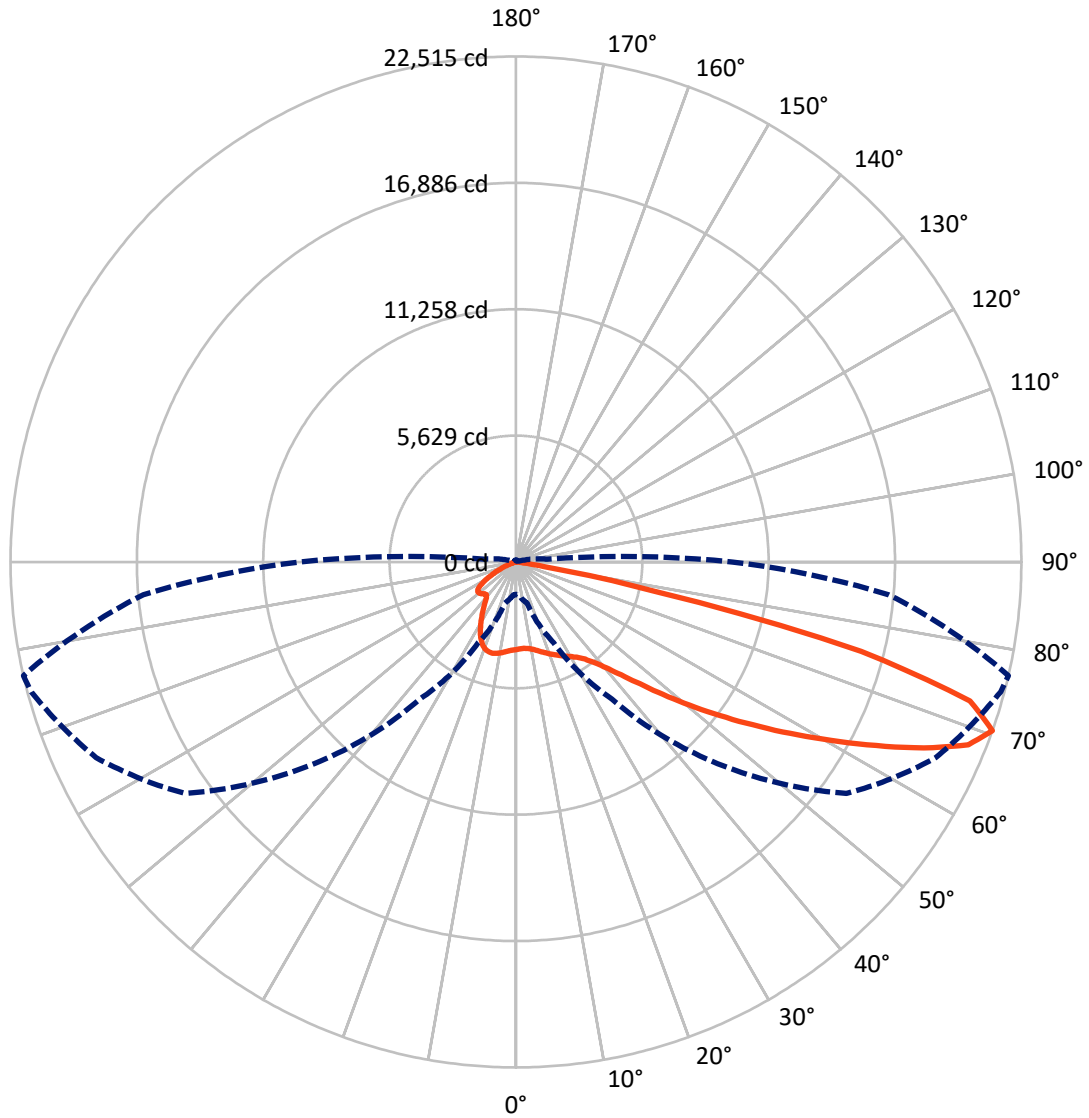
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2634.1   | 0.0    | 2634.1  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 22353.9  | 0.0    | 22353.9 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 24988.0  | 0.0    | 24988.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 335.9   | 1.3       |
| 10°-20°   | 797.4   | 3.2       |
| 20°-30°   | 1233.4  | 4.9       |
| 30°-40°   | 2238.1  | 9.0       |
| 40°-50°   | 4224.6  | 16.9      |
| 50°-60°   | 6104.3  | 24.4      |
| 60°-70°   | 6497.8  | 26.0      |
| 70°-80°   | 3443.4  | 13.8      |
| 80°-90°   | 113.1   | 0.5       |
| 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°    | 24988.0 | 100.0     |
| 0°-180°   | 24988.0 | 100.0     |

**Coefficient of Utilization**



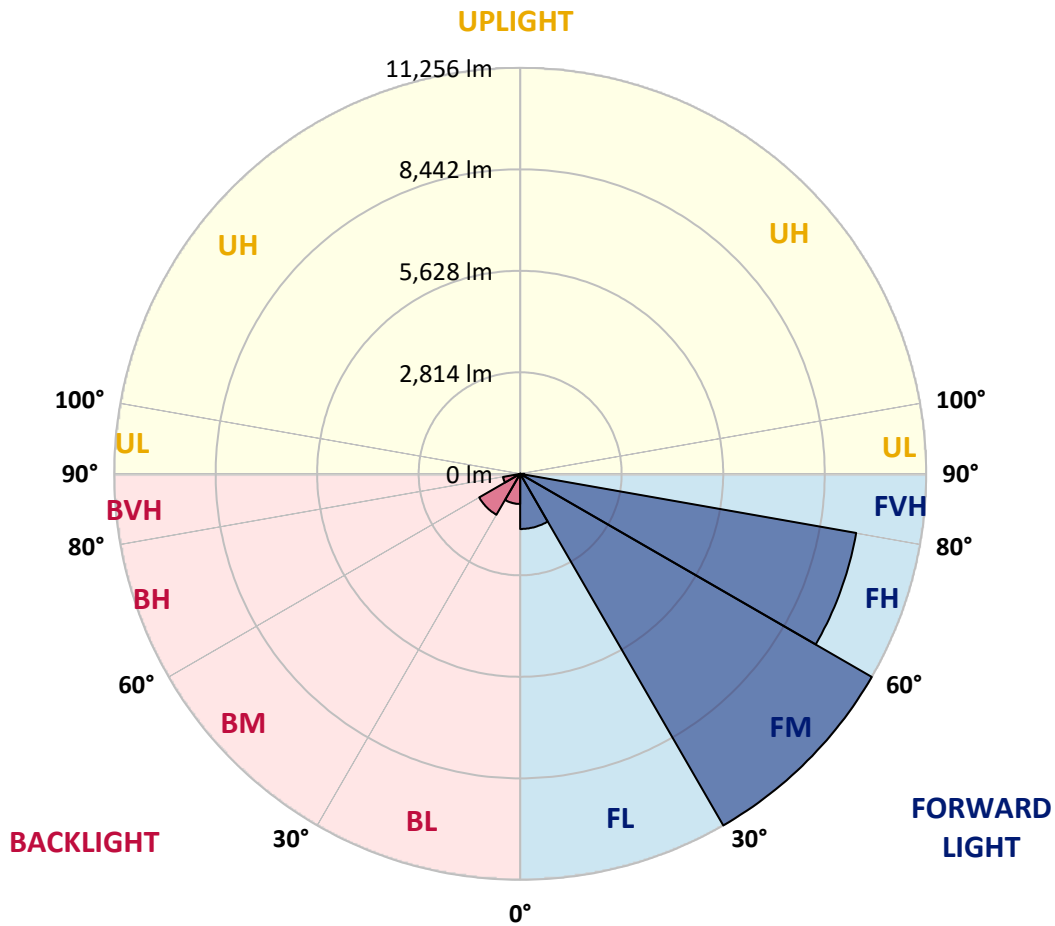
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 1529.9  | 6.1       |                         |      |          |
| FM (30°-60°)   | 11255.7 | 45.0      |                         |      |          |
| FH (60°-80°)   | 9458.3  | 37.9      |                         |      | G4/12000 |
| FVH (80°-90°)  | 110.0   | 0.4       |                         |      | G2/225   |
| BL (0°-30°)    | 836.9   | 3.3       | B2/1000                 |      |          |
| BM (30°-60°)   | 1311.3  | 5.2       | B2/2500                 |      |          |
| BH (60°-80°)   | 482.9   | 1.9       | B1/500                  |      | G1/500   |
| BVH (80°-90°)  | 3.0     | 0.0       |                         |      | G0/10    |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3897.7  | 3897.7  | 3897.7  | 3897.7  | 3897.7  | 3897.7  | 3897.7  | 3897.7  | 3897.7  | 3897.7  |
| 2.5°  | 3659.4  | 3692.5  | 3687.8  | 3709.9  | 3717.8  | 3749.3  | 3780.9  | 3823.5  | 3870.9  | 3869.3  |
| 5°    | 3452.7  | 3485.8  | 3493.7  | 3523.7  | 3561.6  | 3610.5  | 3675.2  | 3760.4  | 3848.8  | 3863.0  |
| 7.5°  | 3208.1  | 3242.8  | 3263.3  | 3323.3  | 3392.7  | 3493.7  | 3599.4  | 3724.1  | 3870.9  | 3891.4  |
| 10°   | 2963.5  | 2995.1  | 3021.9  | 3107.1  | 3217.6  | 3367.5  | 3539.5  | 3719.4  | 3916.6  | 3946.6  |
| 12.5° | 2812.0  | 2842.0  | 2872.0  | 2946.1  | 3083.4  | 3266.5  | 3500.0  | 3741.5  | 3992.4  | 4035.0  |
| 15°   | 2758.4  | 2785.2  | 2808.9  | 2875.1  | 3002.9  | 3211.2  | 3492.1  | 3787.2  | 4088.6  | 4145.4  |
| 17.5° | 2766.2  | 2780.4  | 2796.2  | 2846.7  | 2971.4  | 3186.0  | 3506.3  | 3866.1  | 4202.2  | 4252.7  |
| 20°   | 2812.0  | 2819.9  | 2821.5  | 2856.2  | 2966.7  | 3182.8  | 3534.7  | 3941.9  | 4309.5  | 4377.4  |
| 22.5° | 2870.4  | 2873.6  | 2870.4  | 2894.1  | 2996.6  | 3206.5  | 3572.6  | 4033.4  | 4429.5  | 4492.6  |
| 25°   | 3143.4  | 3083.4  | 3007.7  | 2961.9  | 3047.1  | 3252.3  | 3629.4  | 4156.5  | 4560.4  | 4622.0  |
| 27.5° | 3990.8  | 3818.8  | 3547.4  | 3242.8  | 3151.3  | 3318.5  | 3708.3  | 4281.1  | 4693.0  | 4748.2  |
| 30°   | 5366.8  | 5141.1  | 4680.4  | 3993.9  | 3485.8  | 3457.4  | 3810.9  | 4405.8  | 4833.4  | 4893.4  |
| 32.5° | 6746.0  | 6690.7  | 6159.0  | 5209.0  | 4238.5  | 3766.7  | 3981.3  | 4574.6  | 5019.6  | 5067.0  |
| 35°   | 8140.9  | 8028.9  | 7593.4  | 6654.5  | 5398.4  | 4396.3  | 4265.4  | 4795.6  | 5264.2  | 5317.9  |
| 37.5° | 9209.2  | 9141.4  | 8871.6  | 8098.3  | 6774.4  | 5368.4  | 4751.4  | 5138.0  | 5619.3  | 5679.2  |
| 40°   | 10152.9 | 10121.3 | 10029.8 | 9520.1  | 8312.9  | 6640.3  | 5507.2  | 5668.2  | 6111.6  | 6182.6  |
| 42.5° | 10894.6 | 10968.7 | 11020.8 | 10878.8 | 9898.8  | 8092.0  | 6523.5  | 6413.0  | 6798.1  | 6870.6  |
| 45°   | 11653.6 | 11678.8 | 11888.7 | 12093.8 | 11473.7 | 9610.1  | 7669.1  | 7285.7  | 7651.8  | 7741.7  |
| 47.5° | 12141.2 | 12242.2 | 12611.4 | 12972.8 | 12797.6 | 11115.5 | 8900.0  | 8316.1  | 8641.2  | 8810.0  |
| 50°   | 12177.5 | 12368.4 | 12876.5 | 13506.2 | 13761.8 | 12548.3 | 10238.1 | 9490.1  | 9835.7  | 10021.9 |
| 52.5° | 11573.1 | 11869.8 | 12657.2 | 13578.7 | 14282.5 | 13761.8 | 11622.0 | 10664.2 | 11107.6 | 11350.6 |
| 55°   | 8873.1  | 9261.3  | 11831.9 | 13184.2 | 14303.1 | 14681.8 | 12969.6 | 11887.1 | 12524.6 | 12799.2 |
| 57.5° | 7730.7  | 7926.3  | 9302.3  | 12499.4 | 13922.8 | 15052.6 | 14187.9 | 13051.7 | 14066.4 | 14407.2 |
| 60°   | 6432.0  | 6689.2  | 7801.7  | 11379.0 | 13406.7 | 15088.9 | 15264.1 | 14554.0 | 15737.5 | 16120.9 |
| 62.5° | 4371.1  | 4650.4  | 5756.6  | 9453.8  | 12701.4 | 15071.5 | 16146.2 | 16100.4 | 17594.8 | 18006.6 |
| 65°   | 2707.9  | 2883.0  | 3612.1  | 7719.6  | 11715.1 | 15090.5 | 17069.3 | 17978.2 | 19554.7 | 19972.8 |
| 67.5° | 2139.8  | 2220.3  | 2600.6  | 5927.0  | 10015.6 | 14664.4 | 17990.9 | 19744.0 | 21399.3 | 21730.7 |
| 70°   | 1437.6  | 1486.5  | 1892.0  | 3973.4  | 7451.3  | 12698.2 | 17973.5 | 20630.9 | 22349.3 | 22515.0 |
| 72.5° | 757.4   | 795.3   | 1106.2  | 1840.0  | 4500.5  | 9026.2  | 15150.4 | 19570.4 | 21404.1 | 21154.8 |
| 75°   | 378.7   | 441.8   | 744.8   | 934.2   | 1922.0  | 5033.8  | 9408.1  | 15429.8 | 16846.8 | 15881.1 |
| 77.5° | 287.2   | 347.2   | 615.4   | 615.4   | 669.1   | 1694.8  | 3984.5  | 8415.5  | 7762.2  | 6463.5  |
| 80°   | 183.0   | 236.7   | 538.1   | 465.5   | 279.3   | 430.8   | 1038.3  | 2357.5  | 1649.0  | 1254.5  |
| 82.5° | 107.3   | 154.6   | 448.2   | 307.7   | 156.2   | 159.4   | 293.5   | 501.8   | 427.6   | 333.0   |
| 85°   | 42.6    | 101.0   | 307.7   | 121.5   | 61.5    | 39.5    | 88.4    | 107.3   | 88.4    | 66.3    |
| 87.5° | 0.0     | 23.7    | 53.7    | 0.0     | 4.7     | 3.2     | 6.3     | 7.9     | 7.9     | 6.3     |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3897.7  | 0°    | 3897.7  | 3897.7 | 3897.7 | 3897.7 | 3897.7 | 3897.7 | 3897.7 | 3897.7 | 3897.7 | 3897.7 |
| 3900.8  | 2.5°  | 3915.0  | 3918.2 | 3927.7 | 3929.2 | 3907.1 | 3878.7 | 3867.7 | 3863.0 | 3844.0 | 3842.4 |
| 3926.1  | 5°    | 3962.4  | 3976.6 | 3962.4 | 3921.3 | 3823.5 | 3686.2 | 3582.1 | 3496.9 | 3419.5 | 3395.9 |
| 4012.9  | 7.5°  | 4057.1  | 4071.3 | 4028.7 | 3867.7 | 3621.5 | 3348.5 | 3102.4 | 2928.8 | 2772.6 | 2714.2 |
| 4118.6  | 10°   | 4192.8  | 4211.7 | 4077.6 | 3752.5 | 3317.0 | 2878.3 | 2461.7 | 2168.2 | 1939.4 | 1846.3 |
| 4262.2  | 12.5° | 4363.2  | 4371.1 | 4104.4 | 3577.3 | 2920.9 | 2294.4 | 1704.2 | 1390.2 | 1186.7 | 1110.9 |
| 4435.8  | 15°   | 4551.0  | 4539.9 | 4107.6 | 3339.1 | 2381.2 | 1622.2 | 1112.5 | 913.7  | 831.6  | 806.4  |
| 4609.4  | 17.5° | 4748.2  | 4702.5 | 4044.4 | 2995.1 | 1789.5 | 1109.3 | 825.3  | 778.0  | 763.8  | 757.4  |
| 4781.4  | 20°   | 4942.3  | 4839.7 | 3929.2 | 2545.3 | 1284.5 | 828.5  | 749.6  | 735.4  | 727.5  | 724.3  |
| 4954.9  | 22.5° | 5119.1  | 4943.9 | 3732.0 | 2023.0 | 932.6  | 732.2  | 708.5  | 695.9  | 681.7  | 675.4  |
| 5123.8  | 25°   | 5291.1  | 5003.9 | 3454.3 | 1535.4 | 746.4  | 684.9  | 665.9  | 642.2  | 623.3  | 615.4  |
| 5305.3  | 27.5° | 5458.3  | 5041.7 | 3107.1 | 1136.2 | 665.9  | 640.7  | 606.0  | 572.8  | 558.6  | 555.5  |
| 5499.4  | 30°   | 5636.6  | 5054.4 | 2712.6 | 847.4  | 617.0  | 585.4  | 534.9  | 497.1  | 489.2  | 490.8  |
| 5761.3  | 32.5° | 5854.4  | 5073.3 | 2314.9 | 694.3  | 576.0  | 519.2  | 459.2  | 419.7  | 413.4  | 419.7  |
| 6143.2  | 35°   | 6114.8  | 5111.2 | 1931.5 | 639.1  | 539.7  | 451.3  | 386.6  | 353.5  | 347.2  | 351.9  |
| 6632.4  | 37.5° | 6468.2  | 5172.7 | 1573.3 | 628.0  | 509.7  | 394.5  | 325.1  | 298.2  | 298.2  | 299.8  |
| 7232.0  | 40°   | 6938.5  | 5336.8 | 1252.9 | 620.2  | 493.9  | 351.9  | 274.6  | 263.5  | 268.3  | 271.4  |
| 7995.8  | 42.5° | 7511.3  | 5685.6 | 1036.8 | 610.7  | 476.6  | 333.0  | 249.3  | 244.6  | 252.5  | 255.6  |
| 8911.0  | 45°   | 8153.6  | 6127.4 | 961.0  | 594.9  | 460.8  | 345.6  | 238.3  | 232.0  | 241.4  | 243.0  |
| 9936.7  | 47.5° | 8817.9  | 6559.8 | 951.5  | 577.6  | 445.0  | 364.5  | 235.1  | 220.9  | 232.0  | 233.5  |
| 11031.8 | 50°   | 9490.1  | 6842.2 | 961.0  | 550.7  | 419.7  | 364.5  | 236.7  | 209.9  | 219.3  | 224.1  |
| 12168.0 | 52.5° | 10167.1 | 6971.6 | 954.7  | 492.3  | 375.6  | 342.4  | 236.7  | 200.4  | 209.9  | 213.0  |
| 13395.7 | 55°   | 10823.5 | 6946.4 | 858.4  | 405.5  | 318.8  | 303.0  | 230.4  | 192.5  | 198.8  | 200.4  |
| 14555.5 | 57.5° | 11342.7 | 6594.5 | 680.1  | 315.6  | 258.8  | 252.5  | 209.9  | 183.0  | 187.8  | 186.2  |
| 15619.1 | 60°   | 11614.1 | 5821.3 | 486.0  | 243.0  | 203.6  | 198.8  | 184.6  | 170.4  | 173.6  | 165.7  |
| 16520.2 | 62.5° | 11617.3 | 4798.7 | 325.1  | 192.5  | 162.5  | 157.8  | 157.8  | 153.1  | 149.9  | 134.1  |
| 17217.6 | 65°   | 11369.5 | 3664.1 | 216.2  | 153.1  | 131.0  | 123.1  | 132.6  | 131.0  | 119.9  | 97.8   |
| 17430.7 | 67.5° | 10807.8 | 2401.7 | 164.1  | 119.9  | 101.0  | 96.3   | 105.7  | 110.5  | 102.6  | 82.1   |
| 16654.3 | 70°   | 9652.7  | 1398.1 | 135.7  | 93.1   | 75.7   | 71.0   | 85.2   | 94.7   | 85.2   | 66.3   |
| 14235.2 | 72.5° | 8017.9  | 754.3  | 110.5  | 69.4   | 52.1   | 47.3   | 67.9   | 77.3   | 67.9   | 48.9   |
| 9133.5  | 75°   | 5202.7  | 404.0  | 85.2   | 45.8   | 26.8   | 30.0   | 50.5   | 56.8   | 47.3   | 31.6   |
| 2681.0  | 77.5° | 1746.9  | 178.3  | 53.7   | 22.1   | 12.6   | 12.6   | 30.0   | 34.7   | 22.1   | 11.0   |
| 487.6   | 80°   | 389.8   | 74.2   | 22.1   | 9.5    | 4.7    | 4.7    | 6.3    | 6.3    | 3.2    | 0.0    |
| 149.9   | 82.5° | 127.8   | 30.0   | 9.5    | 3.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 37.9    | 85°   | 48.9    | 11.0   | 3.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 12.6    | 87.5° | 18.9    | 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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|        |
|--------|
| 180°   |
| 3897.7 |
| 3845.6 |
| 3381.7 |
| 2690.5 |
| 1806.8 |
| 1087.2 |
| 806.4  |
| 755.9  |
| 721.1  |
| 673.8  |
| 612.3  |
| 552.3  |
| 490.8  |
| 418.2  |
| 350.3  |
| 298.2  |
| 271.4  |
| 255.6  |
| 244.6  |
| 235.1  |
| 225.7  |
| 213.0  |
| 200.4  |
| 186.2  |
| 164.1  |
| 129.4  |
| 94.7   |
| 80.5   |
| 63.1   |
| 47.3   |
| 28.4   |
| 9.5    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |

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