

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: P954045

Luminaire Tested: **GALN-SB7B-930-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954045  
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-SB7B-930-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

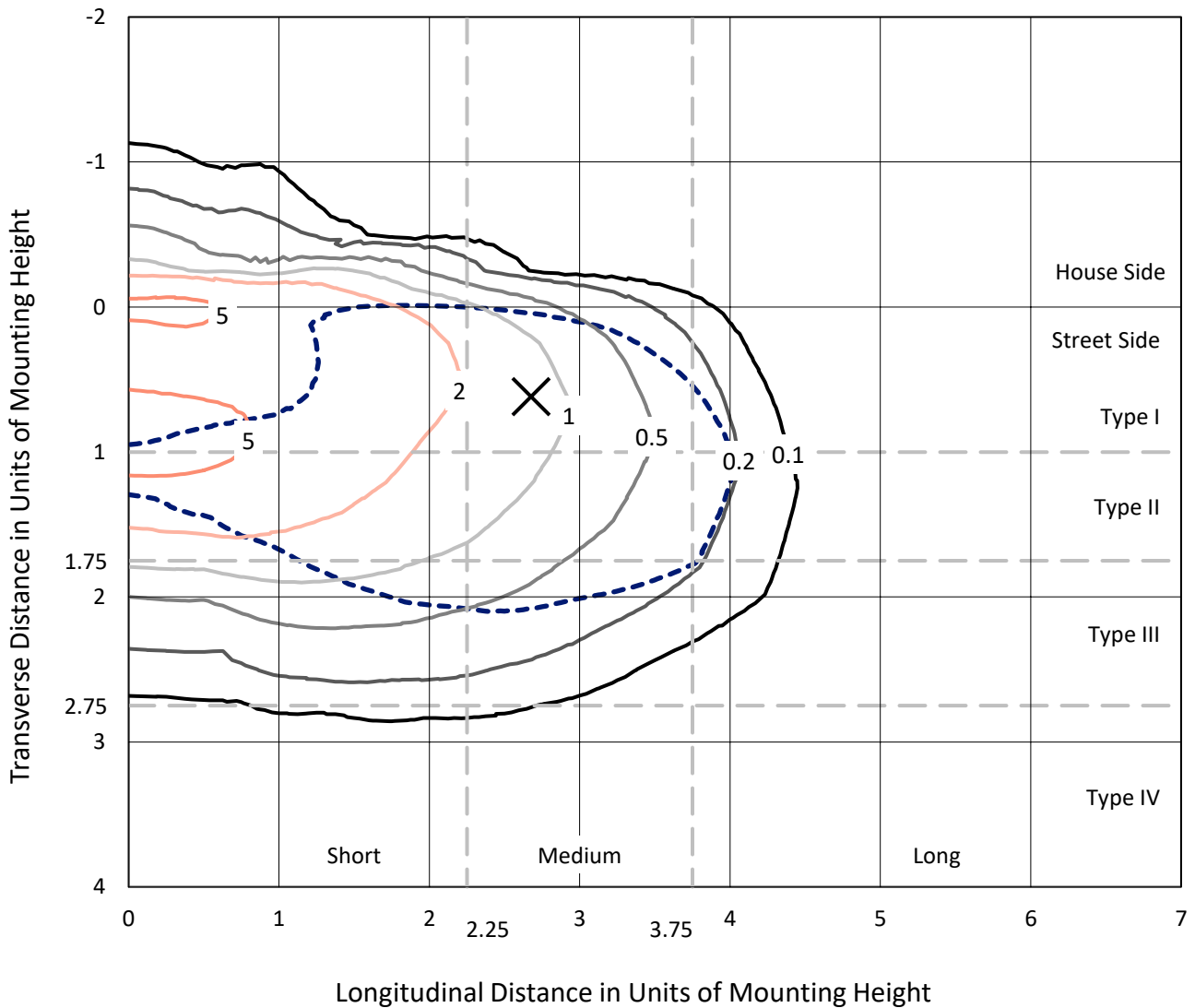
Lumens per Lamp: N/A  
Luminaire Lumens: 23193 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

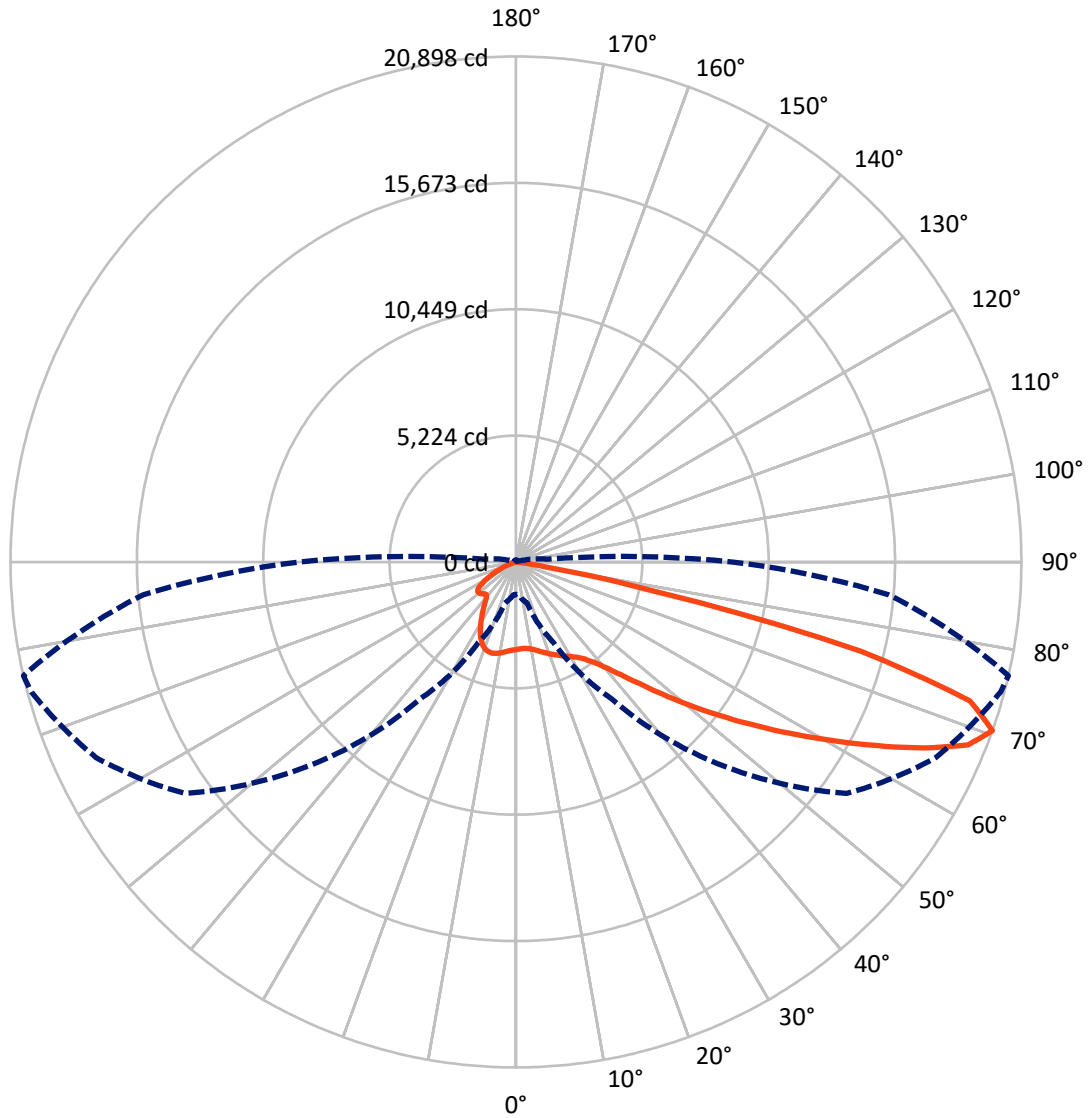
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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    | 2444.9   | 0.0    | 2444.9  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 20748.1  | 0.0    | 20748.1 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 23193.0  | 0.0    | 23193.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 311.8   | 1.3       |
| 10°-20°   | 740.1   | 3.2       |
| 20°-30°   | 1144.8  | 4.9       |
| 30°-40°   | 2077.3  | 9.0       |
| 40°-50°   | 3921.2  | 16.9      |
| 50°-60°   | 5665.8  | 24.4      |
| 60°-70°   | 6031.0  | 26.0      |
| 70°-80°   | 3196.0  | 13.8      |
| 80°-90°   | 104.9   | 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°    | 23193.0 | 100.0     |
| 0°-180°   | 23193.0 | 100.0     |

**Coefficient of Utilization**



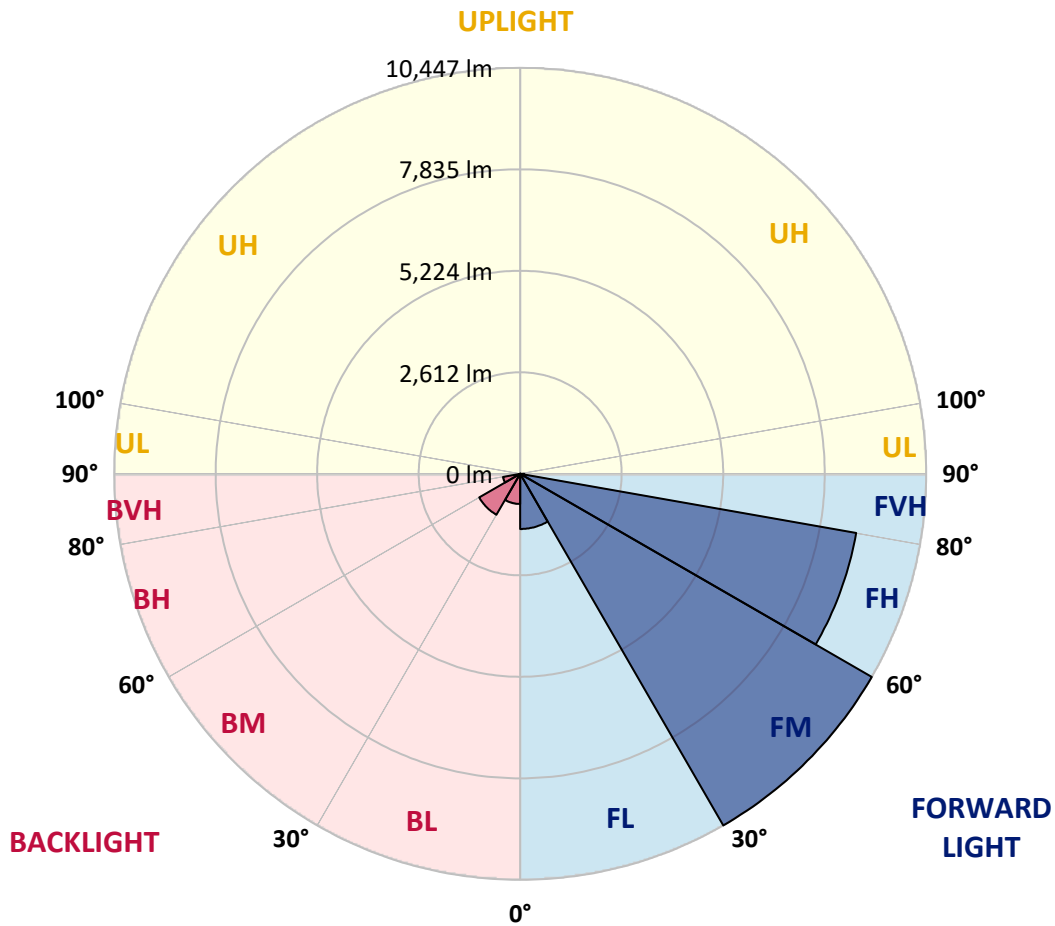
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 1420.0  | 6.1       |                         |      |          |
| FM (30°-60°)   | 10447.2 | 45.0      |                         |      |          |
| FH (60°-80°)   | 8778.9  | 37.9      |                         |      | G4/12000 |
| FVH (80°-90°)  | 102.1   | 0.4       |                         |      | G2/225   |
| BL (0°-30°)    | 776.8   | 3.3       | B2/1000                 |      |          |
| BM (30°-60°)   | 1217.1  | 5.2       | B2/2500                 |      |          |
| BH (60°-80°)   | 448.2   | 1.9       | B1/500                  |      | G1/500   |
| BVH (80°-90°)  | 2.8     | 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°    | 3617.7  | 3617.7  | 3617.7  | 3617.7  | 3617.7  | 3617.7  | 3617.7  | 3617.7  | 3617.7  | 3617.7  |
| 2.5°  | 3396.5  | 3427.3  | 3422.9  | 3443.4  | 3450.7  | 3480.0  | 3509.3  | 3548.9  | 3592.8  | 3591.3  |
| 5°    | 3204.7  | 3235.4  | 3242.7  | 3270.6  | 3305.7  | 3351.1  | 3411.2  | 3490.3  | 3572.3  | 3585.5  |
| 7.5°  | 2977.6  | 3009.9  | 3028.9  | 3084.6  | 3149.0  | 3242.7  | 3340.9  | 3456.6  | 3592.8  | 3611.8  |
| 10°   | 2750.6  | 2779.9  | 2804.8  | 2883.9  | 2986.4  | 3125.6  | 3285.2  | 3452.2  | 3635.3  | 3663.1  |
| 12.5° | 2610.0  | 2637.8  | 2665.7  | 2734.5  | 2861.9  | 3031.8  | 3248.6  | 3472.7  | 3705.6  | 3745.1  |
| 15°   | 2560.2  | 2585.1  | 2607.1  | 2668.6  | 2787.2  | 2980.6  | 3241.3  | 3515.2  | 3794.9  | 3847.6  |
| 17.5° | 2567.5  | 2580.7  | 2595.4  | 2642.2  | 2757.9  | 2957.1  | 3254.5  | 3588.4  | 3900.4  | 3947.2  |
| 20°   | 2610.0  | 2617.3  | 2618.8  | 2651.0  | 2753.5  | 2954.2  | 3280.8  | 3658.7  | 4000.0  | 4062.9  |
| 22.5° | 2664.2  | 2667.1  | 2664.2  | 2686.2  | 2781.4  | 2976.2  | 3316.0  | 3743.6  | 4111.3  | 4169.9  |
| 25°   | 2917.6  | 2861.9  | 2791.6  | 2749.2  | 2828.2  | 3018.6  | 3368.7  | 3857.9  | 4232.8  | 4290.0  |
| 27.5° | 3704.1  | 3544.5  | 3292.5  | 3009.9  | 2924.9  | 3080.2  | 3441.9  | 3973.6  | 4355.9  | 4407.1  |
| 30°   | 4981.3  | 4771.8  | 4344.2  | 3707.0  | 3235.4  | 3209.1  | 3537.1  | 4089.3  | 4486.2  | 4541.9  |
| 32.5° | 6261.4  | 6210.1  | 5716.5  | 4834.8  | 3934.1  | 3496.1  | 3695.3  | 4246.0  | 4659.1  | 4703.0  |
| 35°   | 7556.1  | 7452.1  | 7047.9  | 6176.4  | 5010.6  | 4080.5  | 3959.0  | 4451.1  | 4886.1  | 4935.9  |
| 37.5° | 8547.7  | 8484.7  | 8234.3  | 7516.6  | 6287.7  | 4982.7  | 4410.1  | 4768.9  | 5215.6  | 5271.3  |
| 40°   | 9423.6  | 9394.3  | 9309.3  | 8836.2  | 7715.8  | 6163.3  | 5111.6  | 5261.0  | 5672.6  | 5738.5  |
| 42.5° | 10112.0 | 10180.8 | 10229.1 | 10097.3 | 9187.8  | 7510.7  | 6054.9  | 5952.3  | 6309.7  | 6377.1  |
| 45°   | 10816.5 | 10839.9 | 11034.7 | 11225.1 | 10649.5 | 8919.7  | 7118.2  | 6762.3  | 7102.1  | 7185.6  |
| 47.5° | 11269.0 | 11362.8 | 11705.5 | 12040.9 | 11878.3 | 10317.0 | 8260.6  | 7718.7  | 8020.4  | 8177.1  |
| 50°   | 11302.7 | 11479.9 | 11951.6 | 12536.0 | 12773.2 | 11646.9 | 9502.7  | 8808.4  | 9129.2  | 9302.0  |
| 52.5° | 10741.8 | 11017.1 | 11748.0 | 12603.3 | 13256.6 | 12773.2 | 10787.2 | 9898.1  | 10309.7 | 10535.2 |
| 55°   | 8235.7  | 8596.0  | 10982.0 | 12237.2 | 13275.6 | 13627.1 | 12038.0 | 11033.2 | 11624.9 | 11879.8 |
| 57.5° | 7175.3  | 7356.9  | 8634.1  | 11601.5 | 12922.6 | 13971.3 | 13168.7 | 12114.1 | 13055.9 | 13372.3 |
| 60°   | 5969.9  | 6208.7  | 7241.2  | 10561.6 | 12443.7 | 14005.0 | 14167.6 | 13508.5 | 14607.0 | 14962.9 |
| 62.5° | 4057.1  | 4316.3  | 5343.0  | 8774.7  | 11789.0 | 13988.9 | 14986.3 | 14943.8 | 16330.9 | 16713.1 |
| 65°   | 2513.3  | 2675.9  | 3352.6  | 7165.1  | 10873.6 | 14006.5 | 15843.1 | 16686.8 | 18150.0 | 18538.1 |
| 67.5° | 1986.1  | 2060.8  | 2413.7  | 5501.2  | 9296.1  | 13611.0 | 16698.5 | 18325.7 | 19862.1 | 20169.7 |
| 70°   | 1334.3  | 1379.7  | 1756.1  | 3688.0  | 6916.1  | 11786.1 | 16682.4 | 19148.9 | 20743.9 | 20897.6 |
| 72.5° | 703.0   | 738.2   | 1026.7  | 1707.8  | 4177.2  | 8377.8  | 14062.1 | 18164.6 | 19866.5 | 19635.1 |
| 75°   | 351.5   | 410.1   | 691.3   | 867.1   | 1783.9  | 4672.2  | 8732.3  | 14321.4 | 15636.6 | 14740.3 |
| 77.5° | 266.6   | 322.2   | 571.2   | 571.2   | 621.0   | 1573.0  | 3698.2  | 7811.0  | 7204.6  | 5999.2  |
| 80°   | 169.9   | 219.7   | 499.4   | 432.1   | 259.2   | 399.8   | 963.7   | 2188.2  | 1530.6  | 1164.4  |
| 82.5° | 99.6    | 143.5   | 416.0   | 285.6   | 145.0   | 147.9   | 272.4   | 465.8   | 396.9   | 309.0   |
| 85°   | 39.5    | 93.7    | 285.6   | 112.8   | 57.1    | 36.6    | 82.0    | 99.6    | 82.0    | 61.5    |
| 87.5° | 0.0     | 22.0    | 49.8    | 0.0     | 4.4     | 2.9     | 5.9     | 7.3     | 7.3     | 5.9     |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3617.7  | 0°    | 3617.7  | 3617.7 | 3617.7 | 3617.7 | 3617.7 | 3617.7 | 3617.7 | 3617.7 | 3617.7 | 3617.7 |
| 3620.6  | 2.5°  | 3633.8  | 3636.7 | 3645.5 | 3647.0 | 3626.5 | 3600.1 | 3589.9 | 3585.5 | 3567.9 | 3566.4 |
| 3644.1  | 5°    | 3677.7  | 3690.9 | 3677.7 | 3639.7 | 3548.9 | 3421.4 | 3324.8 | 3245.7 | 3173.9 | 3151.9 |
| 3724.6  | 7.5°  | 3765.6  | 3778.8 | 3739.3 | 3589.9 | 3361.4 | 3108.0 | 2879.5 | 2718.4 | 2573.4 | 2519.2 |
| 3822.7  | 10°   | 3891.6  | 3909.2 | 3784.7 | 3482.9 | 3078.7 | 2671.5 | 2284.9 | 2012.4 | 1800.1 | 1713.6 |
| 3956.0  | 12.5° | 4049.8  | 4057.1 | 3809.6 | 3320.4 | 2711.1 | 2129.6 | 1581.8 | 1290.4 | 1101.4 | 1031.1 |
| 4117.1  | 15°   | 4224.1  | 4213.8 | 3812.5 | 3099.2 | 2210.2 | 1505.7 | 1032.6 | 848.0  | 771.9  | 748.4  |
| 4278.2  | 17.5° | 4407.1  | 4364.7 | 3753.9 | 2779.9 | 1660.9 | 1029.6 | 766.0  | 722.1  | 708.9  | 703.0  |
| 4437.9  | 20°   | 4587.3  | 4492.1 | 3647.0 | 2362.5 | 1192.2 | 768.9  | 695.7  | 682.5  | 675.2  | 672.3  |
| 4599.0  | 22.5° | 4751.3  | 4588.8 | 3463.9 | 1877.7 | 865.6  | 679.6  | 657.6  | 645.9  | 632.7  | 626.9  |
| 4755.7  | 25°   | 4911.0  | 4644.4 | 3206.1 | 1425.1 | 692.8  | 635.7  | 618.1  | 596.1  | 578.5  | 571.2  |
| 4924.2  | 27.5° | 5066.2  | 4679.6 | 2883.9 | 1054.5 | 618.1  | 594.6  | 562.4  | 531.7  | 518.5  | 515.6  |
| 5104.3  | 30°   | 5231.7  | 4691.3 | 2517.7 | 786.5  | 572.7  | 543.4  | 496.5  | 461.4  | 454.0  | 455.5  |
| 5347.4  | 32.5° | 5433.9  | 4708.9 | 2148.6 | 644.4  | 534.6  | 481.9  | 426.2  | 389.6  | 383.7  | 389.6  |
| 5701.9  | 35°   | 5675.5  | 4744.0 | 1792.7 | 593.2  | 500.9  | 418.9  | 358.8  | 328.1  | 322.2  | 326.6  |
| 6155.9  | 37.5° | 6003.6  | 4801.1 | 1460.3 | 582.9  | 473.1  | 366.2  | 301.7  | 276.8  | 276.8  | 278.3  |
| 6712.5  | 40°   | 6440.1  | 4953.5 | 1162.9 | 575.6  | 458.4  | 326.6  | 254.8  | 244.6  | 249.0  | 251.9  |
| 7421.4  | 42.5° | 6971.7  | 5277.1 | 962.3  | 566.8  | 442.3  | 309.0  | 231.4  | 227.0  | 234.3  | 237.3  |
| 8270.9  | 45°   | 7567.9  | 5687.2 | 892.0  | 552.2  | 427.7  | 320.8  | 221.2  | 215.3  | 224.1  | 225.6  |
| 9222.9  | 47.5° | 8184.5  | 6088.6 | 883.2  | 536.1  | 413.0  | 338.3  | 218.2  | 205.1  | 215.3  | 216.8  |
| 10239.4 | 50°   | 8808.4  | 6350.7 | 892.0  | 511.2  | 389.6  | 338.3  | 219.7  | 194.8  | 203.6  | 208.0  |
| 11293.9 | 52.5° | 9436.7  | 6470.8 | 886.1  | 457.0  | 348.6  | 317.8  | 219.7  | 186.0  | 194.8  | 197.7  |
| 12433.4 | 55°   | 10046.0 | 6447.4 | 796.8  | 376.4  | 295.9  | 281.2  | 213.8  | 178.7  | 184.5  | 186.0  |
| 13509.9 | 57.5° | 10527.9 | 6120.8 | 631.3  | 292.9  | 240.2  | 234.3  | 194.8  | 169.9  | 174.3  | 172.8  |
| 14497.1 | 60°   | 10779.8 | 5403.1 | 451.1  | 225.6  | 188.9  | 184.5  | 171.4  | 158.2  | 161.1  | 153.8  |
| 15333.4 | 62.5° | 10782.8 | 4454.0 | 301.7  | 178.7  | 150.9  | 146.5  | 146.5  | 142.1  | 139.1  | 124.5  |
| 15980.8 | 65°   | 10552.8 | 3400.9 | 200.7  | 142.1  | 121.6  | 114.2  | 123.0  | 121.6  | 111.3  | 90.8   |
| 16178.5 | 67.5° | 10031.4 | 2229.2 | 152.3  | 111.3  | 93.7   | 89.3   | 98.1   | 102.5  | 95.2   | 76.2   |
| 15457.9 | 70°   | 8959.3  | 1297.7 | 126.0  | 86.4   | 70.3   | 65.9   | 79.1   | 87.9   | 79.1   | 61.5   |
| 13212.6 | 72.5° | 7441.9  | 700.1  | 102.5  | 64.4   | 48.3   | 43.9   | 63.0   | 71.8   | 63.0   | 45.4   |
| 8477.4  | 75°   | 4829.0  | 375.0  | 79.1   | 42.5   | 24.9   | 27.8   | 46.9   | 52.7   | 43.9   | 29.3   |
| 2488.4  | 77.5° | 1621.4  | 165.5  | 49.8   | 20.5   | 11.7   | 11.7   | 27.8   | 32.2   | 20.5   | 10.3   |
| 452.6   | 80°   | 361.8   | 68.8   | 20.5   | 8.8    | 4.4    | 4.4    | 5.9    | 5.9    | 2.9    | 0.0    |
| 139.1   | 82.5° | 118.6   | 27.8   | 8.8    | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 35.2    | 85°   | 45.4    | 10.3   | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 11.7    | 87.5° | 17.6    | 1.5    | 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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| <u>180°</u> |
|-------------|
| 3617.7      |
| 3569.4      |
| 3138.7      |
| 2497.2      |
| 1677.0      |
| 1009.1      |
| 748.4       |
| 701.6       |
| 669.3       |
| 625.4       |
| 568.3       |
| 512.6       |
| 455.5       |
| 388.1       |
| 325.2       |
| 276.8       |
| 251.9       |
| 237.3       |
| 227.0       |
| 218.2       |
| 209.4       |
| 197.7       |
| 186.0       |
| 172.8       |
| 152.3       |
| 120.1       |
| 87.9        |
| 74.7        |
| 58.6        |
| 43.9        |
| 26.4        |
| 8.8         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

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