

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: P949089

Luminaire Tested: **GALN-SB3D-940-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949089  
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-SB3D-940-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

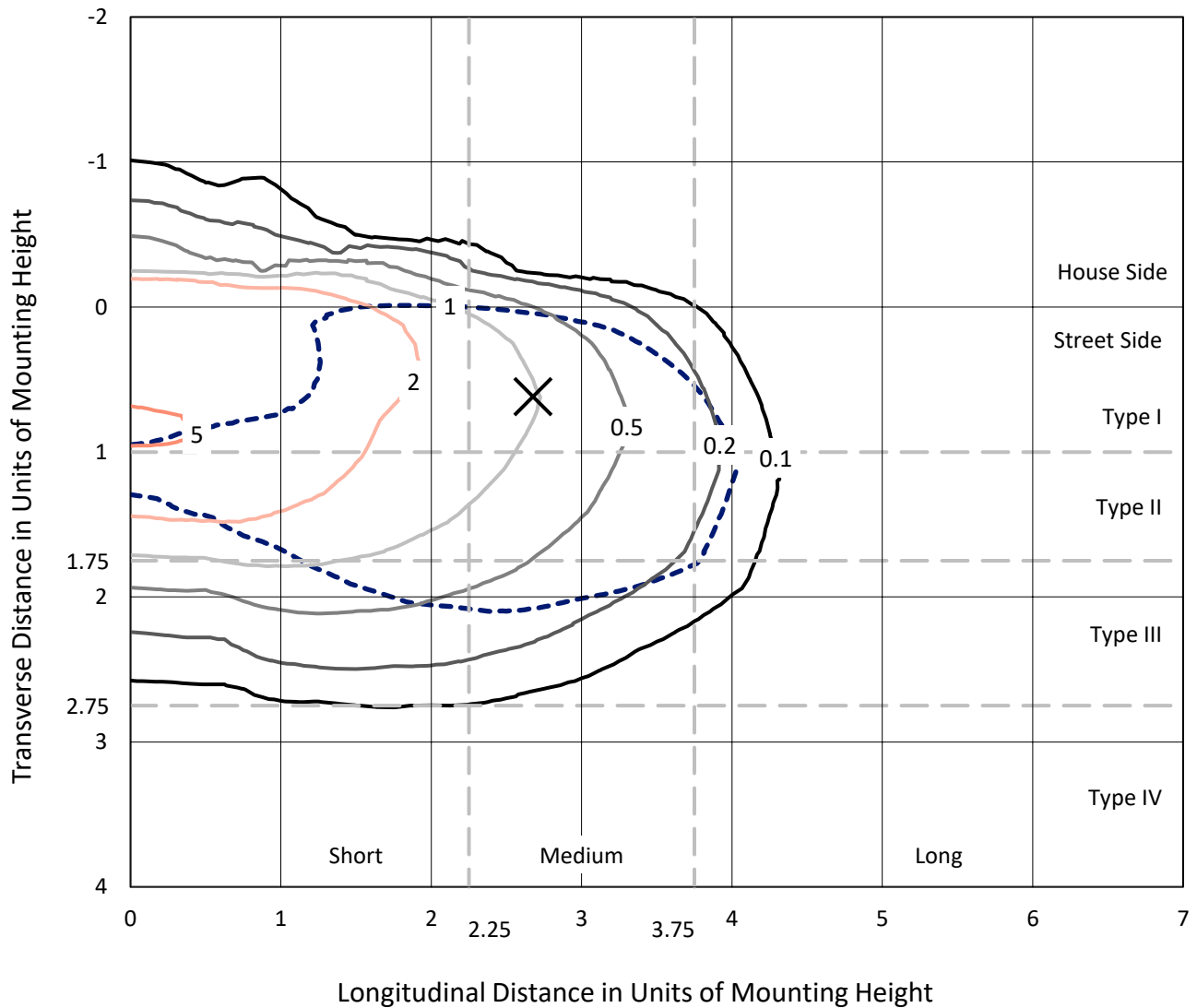
Lumens per Lamp: N/A  
Luminaire Lumens: 18419 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

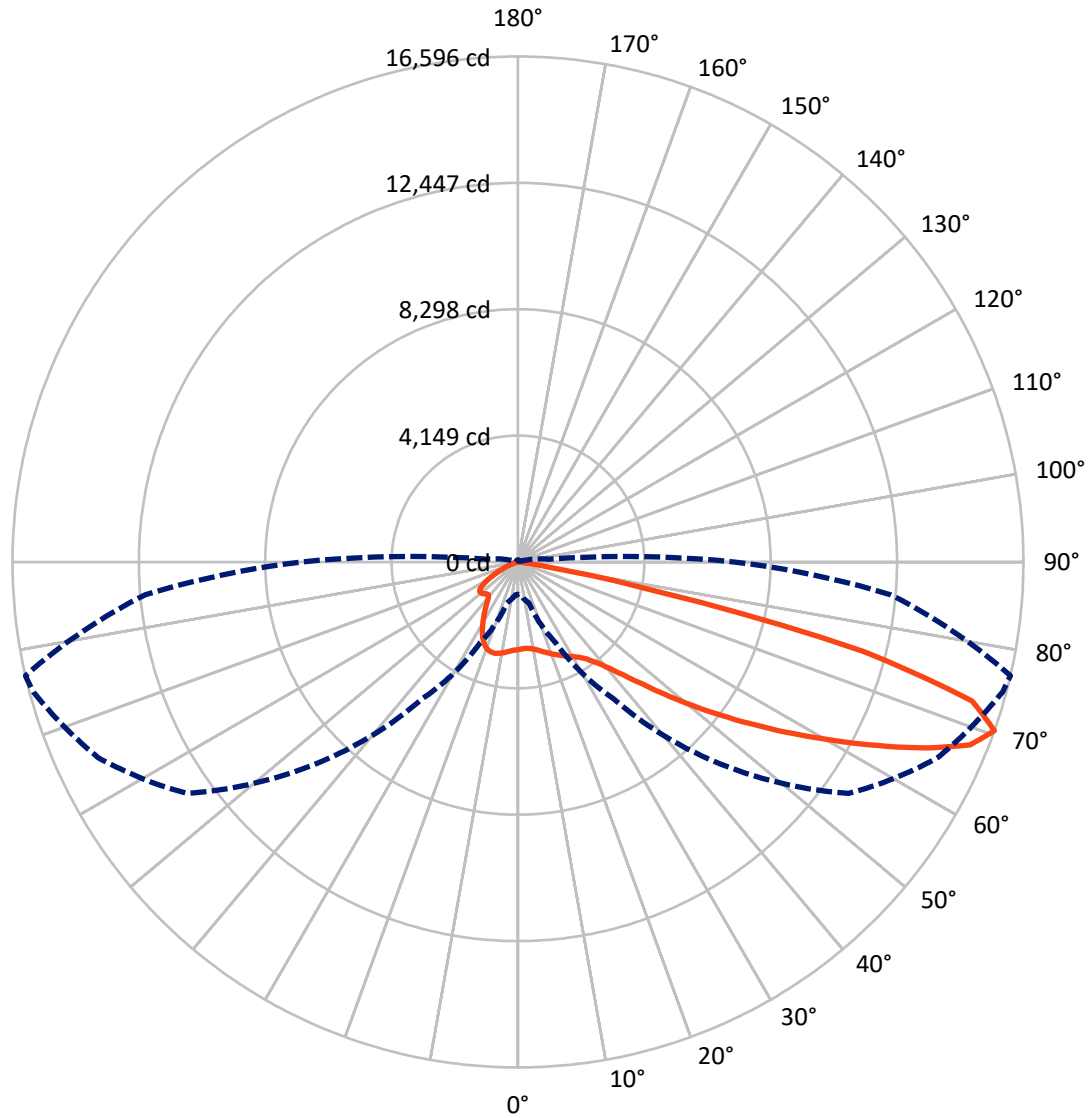
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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    | 1941.6   | 0.0    | 1941.6  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 16477.4  | 0.0    | 16477.4 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 18419.0  | 0.0    | 18419.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 247.6   | 1.3       |
| 10°-20°   | 587.8   | 3.2       |
| 20°-30°   | 909.2   | 4.9       |
| 30°-40°   | 1649.7  | 9.0       |
| 40°-50°   | 3114.0  | 16.9      |
| 50°-60°   | 4499.5  | 24.4      |
| 60°-70°   | 4789.6  | 26.0      |
| 70°-80°   | 2538.2  | 13.8      |
| 80°-90°   | 83.3    | 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°    | 18419.0 | 100.0     |
| 0°-180°   | 18419.0 | 100.0     |

**Coefficient of Utilization**



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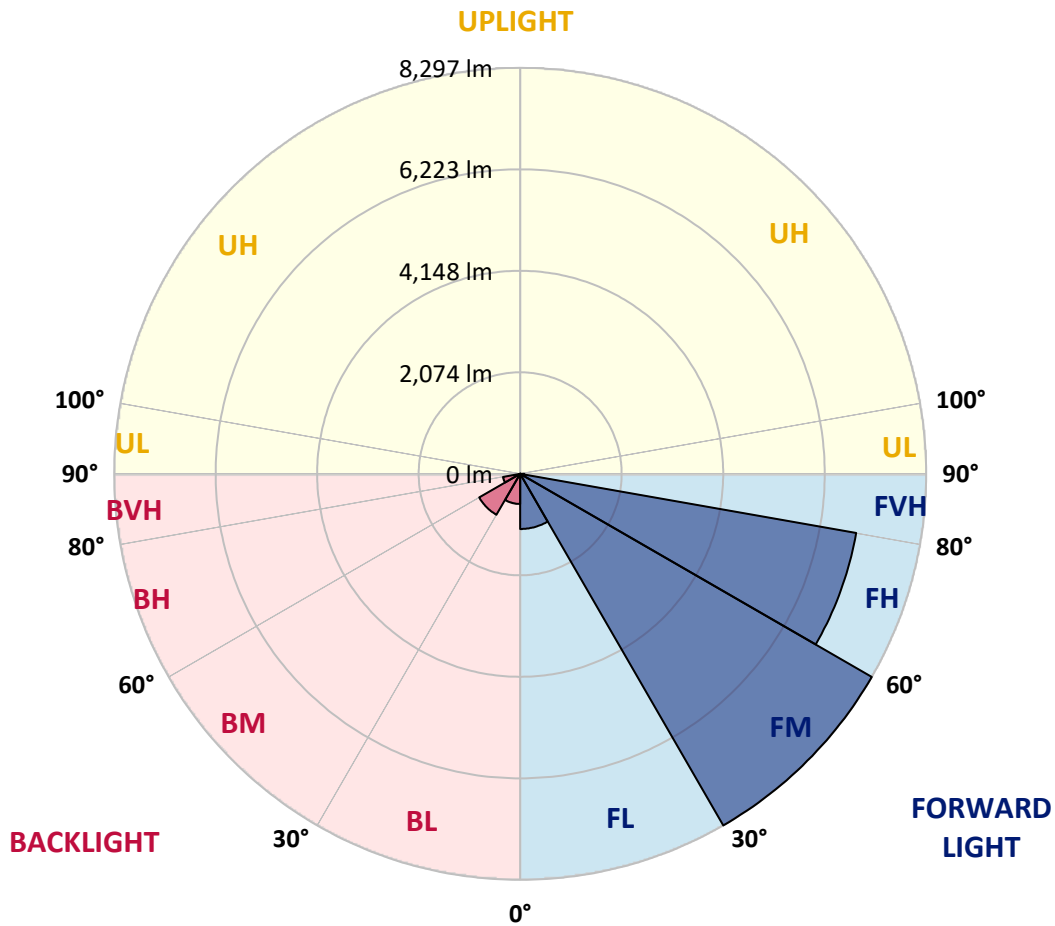
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1127.7 | 6.1       |                         |      |         |
| FM (30°-60°)   | 8296.7 | 45.0      |                         |      |         |
| FH (60°-80°)   | 6971.8 | 37.9      |                         |      | G3/7500 |
| FVH (80°-90°)  | 81.1   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 616.9  | 3.3       | B2/1000                 |      |         |
| BM (30°-60°)   | 966.5  | 5.2       | B1/1000                 |      |         |
| BH (60°-80°)   | 355.9  | 1.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.2    | 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-G3**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2873.0 | 2873.0 | 2873.0 | 2873.0  | 2873.0  | 2873.0  | 2873.0  | 2873.0  | 2873.0  | 2873.0  |
| 2.5°  | 2697.4 | 2721.8 | 2718.3 | 2734.6  | 2740.4  | 2763.7  | 2787.0  | 2818.4  | 2853.3  | 2852.1  |
| 5°    | 2545.0 | 2569.4 | 2575.3 | 2597.4  | 2625.3  | 2661.3  | 2709.0  | 2771.8  | 2837.0  | 2847.4  |
| 7.5°  | 2364.7 | 2390.3 | 2405.4 | 2449.6  | 2500.8  | 2575.3  | 2653.2  | 2745.1  | 2853.3  | 2868.4  |
| 10°   | 2184.4 | 2207.7 | 2227.5 | 2290.3  | 2371.7  | 2482.2  | 2609.0  | 2741.6  | 2887.0  | 2909.1  |
| 12.5° | 2072.8 | 2094.9 | 2117.0 | 2171.6  | 2272.8  | 2407.8  | 2579.9  | 2757.9  | 2942.8  | 2974.2  |
| 15°   | 2033.2 | 2053.0 | 2070.4 | 2119.3  | 2213.5  | 2367.1  | 2574.1  | 2791.6  | 3013.8  | 3055.6  |
| 17.5° | 2039.0 | 2049.5 | 2061.1 | 2098.4  | 2190.3  | 2348.4  | 2584.6  | 2849.8  | 3097.5  | 3134.7  |
| 20°   | 2072.8 | 2078.6 | 2079.7 | 2105.3  | 2186.8  | 2346.1  | 2605.5  | 2905.6  | 3176.6  | 3226.6  |
| 22.5° | 2115.8 | 2118.1 | 2115.8 | 2133.3  | 2208.9  | 2363.6  | 2633.4  | 2973.1  | 3265.0  | 3311.5  |
| 25°   | 2317.0 | 2272.8 | 2217.0 | 2183.3  | 2246.1  | 2397.3  | 2675.3  | 3063.8  | 3361.6  | 3406.9  |
| 27.5° | 2941.7 | 2814.9 | 2614.8 | 2390.3  | 2322.9  | 2446.1  | 2733.5  | 3155.7  | 3459.3  | 3500.0  |
| 30°   | 3955.9 | 3789.6 | 3450.0 | 2944.0  | 2569.4  | 2548.5  | 2809.1  | 3247.6  | 3562.8  | 3607.0  |
| 32.5° | 4972.6 | 4931.8 | 4539.9 | 3839.6  | 3124.3  | 2776.5  | 2934.7  | 3372.0  | 3700.0  | 3734.9  |
| 35°   | 6000.8 | 5918.2 | 5597.2 | 4905.1  | 3979.2  | 3240.6  | 3144.1  | 3534.9  | 3880.3  | 3919.9  |
| 37.5° | 6788.3 | 6738.2 | 6539.3 | 5969.4  | 4993.5  | 3957.1  | 3502.3  | 3787.3  | 4142.1  | 4186.3  |
| 40°   | 7483.8 | 7460.6 | 7393.1 | 7017.4  | 6127.6  | 4894.6  | 4059.5  | 4178.1  | 4505.0  | 4557.3  |
| 42.5° | 8030.5 | 8085.2 | 8123.6 | 8018.9  | 7296.6  | 5964.7  | 4808.5  | 4727.1  | 5010.9  | 5064.4  |
| 45°   | 8590.0 | 8608.6 | 8763.3 | 8914.5  | 8457.4  | 7083.7  | 5653.0  | 5370.4  | 5640.2  | 5706.5  |
| 47.5° | 8949.4 | 9023.9 | 9296.1 | 9562.4  | 9433.3  | 8193.4  | 6560.3  | 6129.9  | 6369.5  | 6494.0  |
| 50°   | 8976.2 | 9116.9 | 9491.5 | 9955.6  | 10144.0 | 9249.5  | 7546.7  | 6995.3  | 7250.0  | 7387.3  |
| 52.5° | 8530.7 | 8749.4 | 9329.8 | 10009.1 | 10527.9 | 10144.0 | 8566.8  | 7860.7  | 8187.6  | 8366.7  |
| 55°   | 6540.5 | 6826.6 | 8721.5 | 9718.3  | 10543.0 | 10822.1 | 9560.1  | 8762.2  | 9232.1  | 9434.5  |
| 57.5° | 5698.4 | 5842.6 | 6856.9 | 9213.5  | 10262.7 | 11095.5 | 10458.1 | 9620.6  | 10368.5 | 10619.7 |
| 60°   | 4741.1 | 4930.7 | 5750.7 | 8387.6  | 9882.3  | 11122.2 | 11251.3 | 10727.9 | 11600.3 | 11883.0 |
| 62.5° | 3222.0 | 3427.9 | 4243.2 | 6968.6  | 9362.4  | 11109.4 | 11901.6 | 11867.8 | 12969.4 | 13272.9 |
| 65°   | 1996.0 | 2125.1 | 2662.5 | 5690.2  | 8635.4  | 11123.4 | 12582.0 | 13252.0 | 14414.0 | 14722.3 |
| 67.5° | 1577.3 | 1636.6 | 1916.9 | 4368.9  | 7382.6  | 10809.3 | 13261.3 | 14553.6 | 15773.8 | 16018.0 |
| 70°   | 1059.6 | 1095.7 | 1394.6 | 2928.9  | 5492.5  | 9360.0  | 13248.5 | 15207.3 | 16474.0 | 16596.1 |
| 72.5° | 558.3  | 586.2  | 815.4  | 1356.3  | 3317.4  | 6653.3  | 11167.6 | 14425.6 | 15777.2 | 15593.5 |
| 75°   | 279.2  | 325.7  | 549.0  | 688.6   | 1416.7  | 3710.5  | 6934.8  | 11373.5 | 12418.0 | 11706.1 |
| 77.5° | 211.7  | 255.9  | 453.6  | 453.6   | 493.2   | 1249.2  | 2937.0  | 6203.2  | 5721.6  | 4764.3  |
| 80°   | 134.9  | 174.5  | 396.6  | 343.1   | 205.9   | 317.5   | 765.4   | 1737.8  | 1215.5  | 924.7   |
| 82.5° | 79.1   | 114.0  | 330.3  | 226.8   | 115.2   | 117.5   | 216.3   | 369.9   | 315.2   | 245.4   |
| 85°   | 31.4   | 74.4   | 226.8  | 89.6    | 45.4    | 29.1    | 65.1    | 79.1    | 65.1    | 48.9    |
| 87.5° | 0.0    | 17.4   | 39.5   | 0.0     | 3.5     | 2.3     | 4.7     | 5.8     | 5.8     | 4.7     |
| 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°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2873.0  | 0°    | 2873.0 | 2873.0 | 2873.0 | 2873.0 | 2873.0 | 2873.0 | 2873.0 | 2873.0 | 2873.0 | 2873.0 |
| 2875.4  | 2.5°  | 2885.8 | 2888.2 | 2895.1 | 2896.3 | 2880.0 | 2859.1 | 2850.9 | 2847.4 | 2833.5 | 2832.3 |
| 2894.0  | 5°    | 2920.7 | 2931.2 | 2920.7 | 2890.5 | 2818.4 | 2717.2 | 2640.4 | 2577.6 | 2520.6 | 2503.1 |
| 2957.9  | 7.5°  | 2990.5 | 3001.0 | 2969.6 | 2850.9 | 2669.5 | 2468.2 | 2286.8 | 2158.8 | 2043.7 | 2000.7 |
| 3035.9  | 10°   | 3090.5 | 3104.5 | 3005.6 | 2766.0 | 2445.0 | 2121.6 | 1814.5 | 1598.2 | 1429.5 | 1360.9 |
| 3141.7  | 12.5° | 3216.2 | 3222.0 | 3025.4 | 2636.9 | 2153.0 | 1691.3 | 1256.2 | 1024.8 | 874.7  | 818.9  |
| 3269.7  | 15°   | 3354.6 | 3346.4 | 3027.7 | 2461.3 | 1755.2 | 1195.7 | 820.0  | 673.5  | 613.0  | 594.4  |
| 3397.6  | 17.5° | 3500.0 | 3466.2 | 2981.2 | 2207.7 | 1319.0 | 817.7  | 608.3  | 573.4  | 563.0  | 558.3  |
| 3524.4  | 20°   | 3643.1 | 3567.4 | 2896.3 | 1876.2 | 946.8  | 610.7  | 552.5  | 542.0  | 536.2  | 533.9  |
| 3652.4  | 22.5° | 3773.3 | 3644.2 | 2750.9 | 1491.2 | 687.4  | 539.7  | 522.3  | 513.0  | 502.5  | 497.8  |
| 3776.8  | 25°   | 3900.1 | 3688.4 | 2546.2 | 1131.8 | 550.2  | 504.8  | 490.9  | 473.4  | 459.5  | 453.6  |
| 3910.6  | 27.5° | 4023.4 | 3716.3 | 2290.3 | 837.5  | 490.9  | 472.2  | 446.7  | 422.2  | 411.8  | 409.4  |
| 4053.6  | 30°   | 4154.8 | 3725.6 | 1999.5 | 624.6  | 454.8  | 431.5  | 394.3  | 366.4  | 360.6  | 361.7  |
| 4246.7  | 32.5° | 4315.4 | 3739.6 | 1706.4 | 511.8  | 424.6  | 382.7  | 338.5  | 309.4  | 304.8  | 309.4  |
| 4528.2  | 35°   | 4507.3 | 3767.5 | 1423.7 | 471.1  | 397.8  | 332.7  | 285.0  | 260.6  | 255.9  | 259.4  |
| 4888.8  | 37.5° | 4767.8 | 3812.9 | 1159.7 | 462.9  | 375.7  | 290.8  | 239.6  | 219.8  | 219.8  | 221.0  |
| 5330.8  | 40°   | 5114.5 | 3933.8 | 923.6  | 457.1  | 364.1  | 259.4  | 202.4  | 194.2  | 197.7  | 200.1  |
| 5893.8  | 42.5° | 5536.7 | 4190.9 | 764.2  | 450.1  | 351.3  | 245.4  | 183.8  | 180.3  | 186.1  | 188.4  |
| 6568.4  | 45°   | 6010.1 | 4516.6 | 708.4  | 438.5  | 339.6  | 254.7  | 175.6  | 171.0  | 178.0  | 179.1  |
| 7324.5  | 47.5° | 6499.8 | 4835.3 | 701.4  | 425.7  | 328.0  | 268.7  | 173.3  | 162.8  | 171.0  | 172.1  |
| 8131.7  | 50°   | 6995.3 | 5043.5 | 708.4  | 405.9  | 309.4  | 268.7  | 174.5  | 154.7  | 161.7  | 165.2  |
| 8969.2  | 52.5° | 7494.3 | 5138.9 | 703.7  | 362.9  | 276.8  | 252.4  | 174.5  | 147.7  | 154.7  | 157.0  |
| 9874.2  | 55°   | 7978.2 | 5120.3 | 632.8  | 298.9  | 235.0  | 223.3  | 169.8  | 141.9  | 146.6  | 147.7  |
| 10729.1 | 57.5° | 8360.9 | 4860.9 | 501.3  | 232.6  | 190.8  | 186.1  | 154.7  | 134.9  | 138.4  | 137.3  |
| 11513.1 | 60°   | 8560.9 | 4290.9 | 358.3  | 179.1  | 150.0  | 146.6  | 136.1  | 125.6  | 127.9  | 122.1  |
| 12177.2 | 62.5° | 8563.3 | 3537.2 | 239.6  | 141.9  | 119.8  | 116.3  | 116.3  | 112.8  | 110.5  | 98.9   |
| 12691.4 | 65°   | 8380.6 | 2700.9 | 159.4  | 112.8  | 96.5   | 90.7   | 97.7   | 96.5   | 88.4   | 72.1   |
| 12848.4 | 67.5° | 7966.6 | 1770.3 | 121.0  | 88.4   | 74.4   | 71.0   | 77.9   | 81.4   | 75.6   | 60.5   |
| 12276.1 | 70°   | 7115.1 | 1030.6 | 100.0  | 68.6   | 55.8   | 52.3   | 62.8   | 69.8   | 62.8   | 48.9   |
| 10493.0 | 72.5° | 5910.1 | 556.0  | 81.4   | 51.2   | 38.4   | 34.9   | 50.0   | 57.0   | 50.0   | 36.1   |
| 6732.4  | 75°   | 3835.0 | 297.8  | 62.8   | 33.7   | 19.8   | 22.1   | 37.2   | 41.9   | 34.9   | 23.3   |
| 1976.2  | 77.5° | 1287.6 | 131.4  | 39.5   | 16.3   | 9.3    | 9.3    | 22.1   | 25.6   | 16.3   | 8.1    |
| 359.4   | 80°   | 287.3  | 54.7   | 16.3   | 7.0    | 3.5    | 3.5    | 4.7    | 4.7    | 2.3    | 0.0    |
| 110.5   | 82.5° | 94.2   | 22.1   | 7.0    | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 27.9    | 85°   | 36.1   | 8.1    | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 9.3     | 87.5° | 14.0   | 1.2    | 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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|        |
|--------|
| 180°   |
| 2873.0 |
| 2834.6 |
| 2492.7 |
| 1983.2 |
| 1331.8 |
| 801.4  |
| 594.4  |
| 557.2  |
| 531.6  |
| 496.7  |
| 451.3  |
| 407.1  |
| 361.7  |
| 308.2  |
| 258.2  |
| 219.8  |
| 200.1  |
| 188.4  |
| 180.3  |
| 173.3  |
| 166.3  |
| 157.0  |
| 147.7  |
| 137.3  |
| 121.0  |
| 95.4   |
| 69.8   |
| 59.3   |
| 46.5   |
| 34.9   |
| 20.9   |
| 7.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |

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