

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: P948523

Luminaire Tested: **GALN-SB3C-750-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948523  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3C-750-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

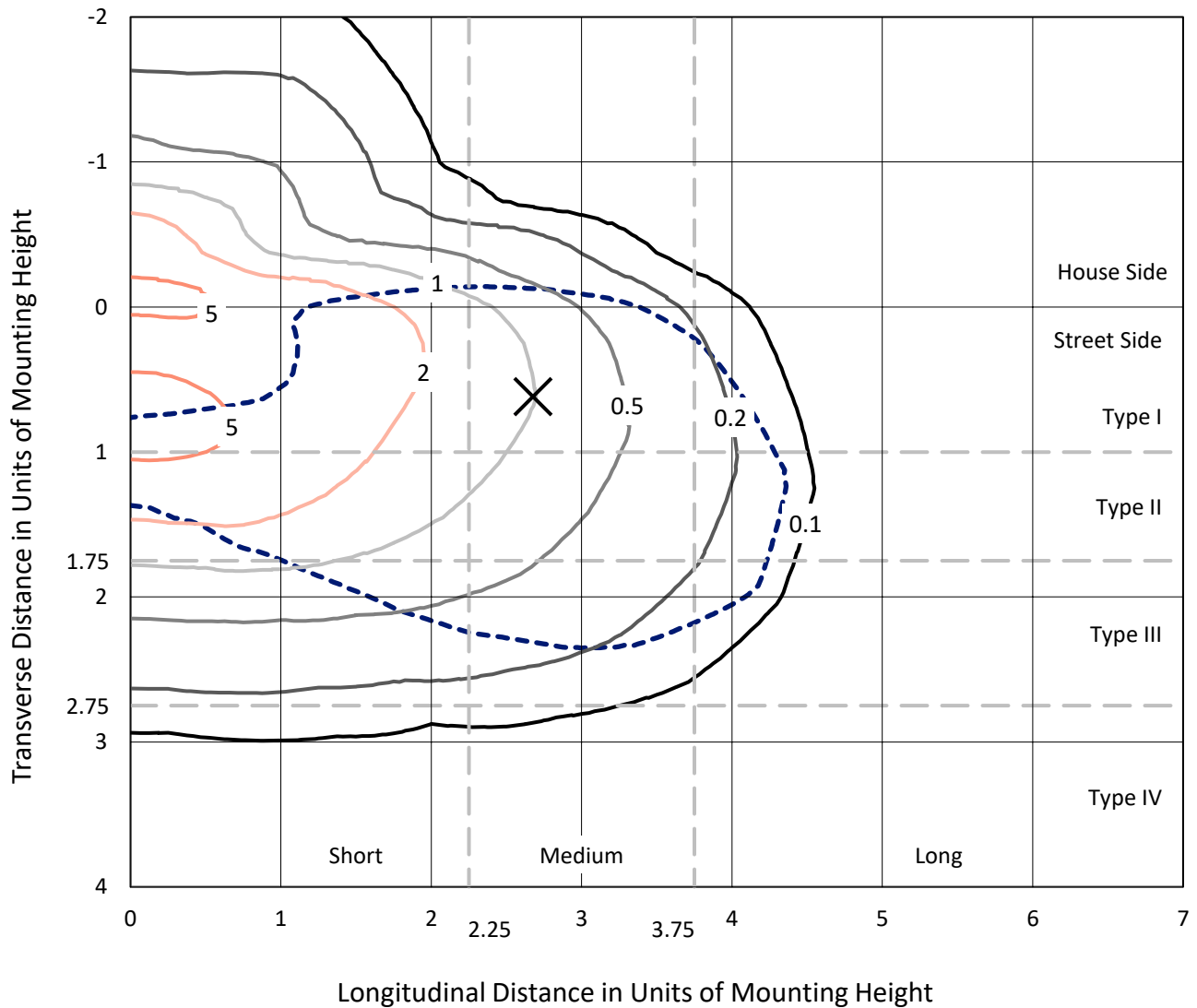
Lumens per Lamp: N/A  
Luminaire Lumens: 24405 lumens  
Efficiency: N/A  
Efficacy: 163.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

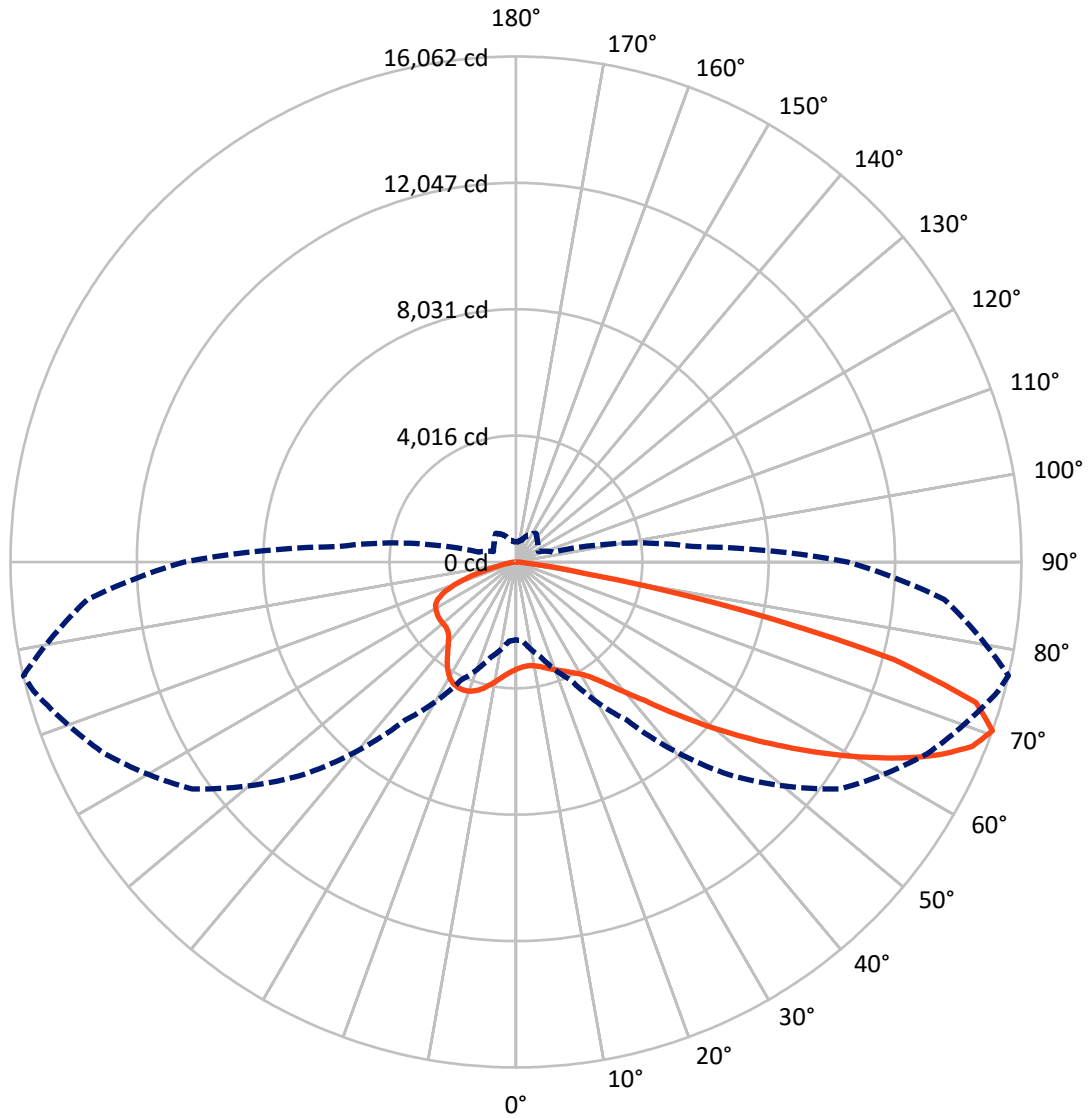
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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    | 5344.3   | 0.0    | 5344.3  |
|                    | % Fixture | 21.9     | 0.0    | 21.9    |
| <b>Street Side</b> | Lumens    | 19060.7  | 0.0    | 19060.7 |
|                    | % Fixture | 78.1     | 0.0    | 78.1    |
| <b>Total</b>       | Lumens    | 24405.0  | 0.0    | 24405.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 324.7   | 1.3       |
| 10°-20°   | 937.2   | 3.8       |
| 20°-30°   | 1602.7  | 6.6       |
| 30°-40°   | 2577.3  | 10.6      |
| 40°-50°   | 4023.8  | 16.5      |
| 50°-60°   | 5374.9  | 22.0      |
| 60°-70°   | 5728.8  | 23.5      |
| 70°-80°   | 3526.6  | 14.5      |
| 80°-90°   | 309.0   | 1.3       |
| 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°    | 24405.0 | 100.0     |
| 0°-180°   | 24405.0 | 100.0     |

**Coefficient of Utilization**



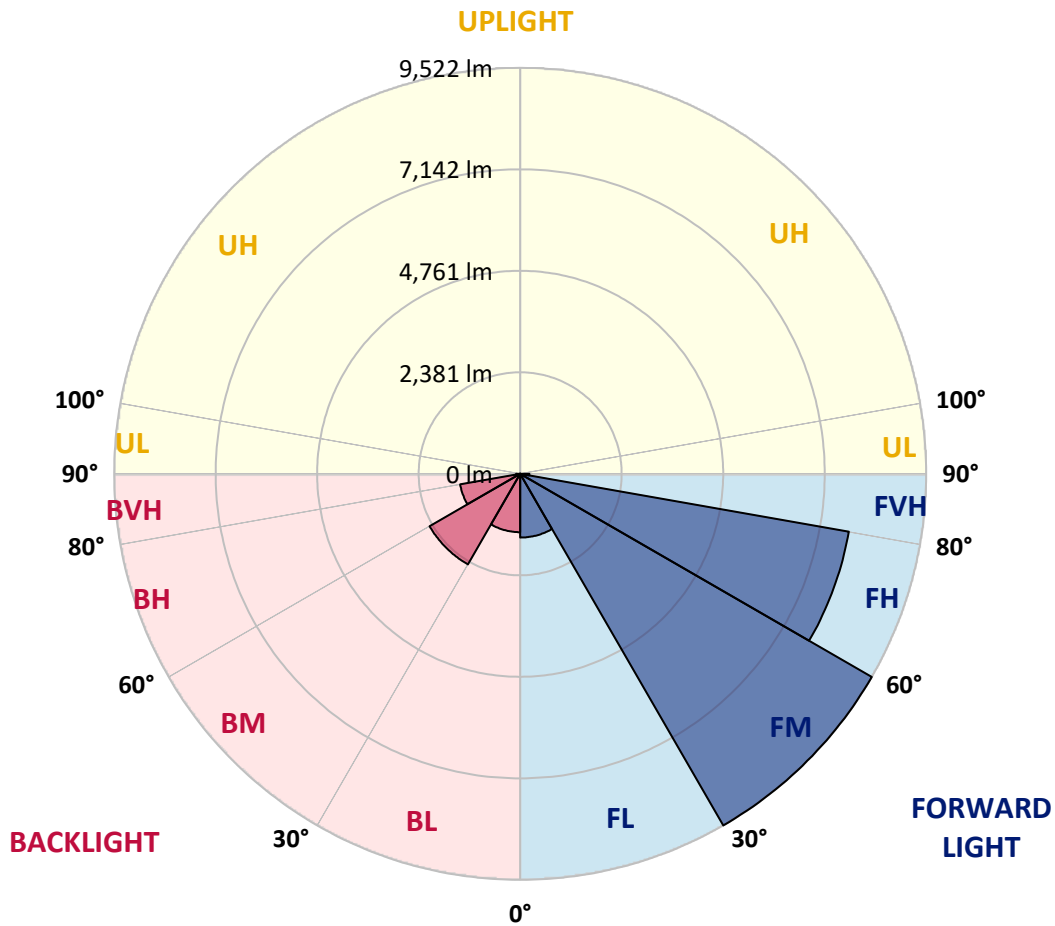
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1495.2 | 6.1       |                         |      |          |
| FM (30°-60°)   | 9522.3 | 39.0      |                         |      |          |
| FH (60°-80°)   | 7827.1 | 32.1      |                         |      | G4/12000 |
| FVH (80°-90°)  | 216.1  | 0.9       |                         |      | G2/225   |
| BL (0°-30°)    | 1369.4 | 5.6       | B3/2500                 |      |          |
| BM (30°-60°)   | 2453.7 | 10.1      | B2/2500                 |      |          |
| BH (60°-80°)   | 1428.3 | 5.9       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 92.9   | 0.4       |                         |      | G1/100   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3404.7 | 3404.7 | 3404.7  | 3404.7  | 3404.7  | 3404.7  | 3404.7  | 3404.7  | 3404.7  | 3404.7  |
| 2.5°  | 3138.5 | 3137.2 | 3153.5  | 3158.5  | 3188.5  | 3209.7  | 3249.7  | 3292.2  | 3347.2  | 3353.5  |
| 5°    | 2957.3 | 2957.3 | 2976.0  | 2996.0  | 3034.8  | 3077.2  | 3138.5  | 3212.2  | 3307.2  | 3322.2  |
| 7.5°  | 2803.5 | 2813.5 | 2829.8  | 2868.5  | 2913.5  | 2974.8  | 3068.5  | 3173.5  | 3298.5  | 3322.2  |
| 10°   | 2679.8 | 2691.0 | 2711.0  | 2742.3  | 2809.8  | 2894.8  | 3017.3  | 3152.2  | 3319.7  | 3357.2  |
| 12.5° | 2641.0 | 2652.3 | 2663.5  | 2687.3  | 2749.8  | 2849.8  | 2996.0  | 3162.2  | 3371.0  | 3408.5  |
| 15°   | 2731.0 | 2744.8 | 2736.0  | 2729.8  | 2762.3  | 2853.5  | 3006.0  | 3198.5  | 3434.7  | 3488.5  |
| 17.5° | 2938.5 | 2943.5 | 2923.5  | 2864.8  | 2859.8  | 2908.5  | 3053.5  | 3248.5  | 3514.7  | 3573.5  |
| 20°   | 3273.5 | 3264.7 | 3223.5  | 3107.2  | 3041.0  | 3031.0  | 3134.7  | 3323.5  | 3597.2  | 3659.7  |
| 22.5° | 3728.4 | 3718.4 | 3636.0  | 3452.2  | 3304.7  | 3207.2  | 3252.2  | 3421.0  | 3689.7  | 3759.7  |
| 25°   | 4295.9 | 4282.1 | 4160.9  | 3910.9  | 3682.2  | 3441.0  | 3412.2  | 3549.7  | 3803.4  | 3868.4  |
| 27.5° | 4958.3 | 4947.1 | 4815.9  | 4485.9  | 4155.9  | 3760.9  | 3611.0  | 3700.9  | 3922.2  | 3995.9  |
| 30°   | 5670.8 | 5703.3 | 5470.8  | 5115.8  | 4698.4  | 4178.4  | 3878.4  | 3887.2  | 4075.9  | 4142.2  |
| 32.5° | 6508.2 | 6564.5 | 6284.5  | 5834.5  | 5264.6  | 4632.1  | 4215.9  | 4147.2  | 4299.6  | 4354.6  |
| 35°   | 7338.1 | 7401.9 | 7169.4  | 6672.0  | 6015.8  | 5167.1  | 4568.4  | 4445.9  | 4597.1  | 4657.1  |
| 37.5° | 8055.6 | 8140.6 | 8020.6  | 7588.1  | 6819.4  | 5812.0  | 5028.3  | 4797.1  | 4963.3  | 5038.3  |
| 40°   | 8621.8 | 8751.8 | 8743.0  | 8473.1  | 7766.9  | 6594.5  | 5612.0  | 5230.8  | 5418.3  | 5499.5  |
| 42.5° | 9081.8 | 9194.2 | 9291.7  | 9278.0  | 8755.5  | 7483.1  | 6298.2  | 5794.5  | 5937.0  | 6030.8  |
| 45°   | 9399.2 | 9519.2 | 9729.2  | 9955.4  | 9706.7  | 8434.3  | 7084.4  | 6463.2  | 6593.2  | 6734.4  |
| 47.5° | 9683.0 | 9819.2 | 10091.7 | 10450.4 | 10514.1 | 9389.2  | 7945.6  | 7241.9  | 7360.6  | 7506.9  |
| 50°   | 9708.0 | 9825.4 | 10247.9 | 10756.6 | 11087.8 | 10306.7 | 8870.5  | 8115.6  | 8226.8  | 8383.1  |
| 52.5° | 9104.3 | 9289.2 | 10026.7 | 10747.9 | 11351.6 | 11074.1 | 9789.2  | 9024.3  | 9149.2  | 9336.7  |
| 55°   | 7066.9 | 7338.1 | 9378.0  | 10412.9 | 11257.8 | 11570.3 | 10662.9 | 9990.4  | 10150.4 | 10346.6 |
| 57.5° | 6087.0 | 6205.7 | 7444.4  | 9802.9  | 10830.4 | 11699.0 | 11400.3 | 10966.6 | 11224.1 | 11439.1 |
| 60°   | 5470.8 | 5569.5 | 6302.0  | 8854.3  | 10267.9 | 11495.3 | 11970.3 | 11876.5 | 12321.5 | 12577.7 |
| 62.5° | 4810.9 | 4904.6 | 5570.8  | 7393.1  | 9548.0  | 11156.6 | 12330.2 | 12716.5 | 13446.4 | 13726.4 |
| 65°   | 4155.9 | 4235.9 | 4874.6  | 6212.0  | 8633.0  | 10817.9 | 12516.5 | 13442.6 | 14487.6 | 14777.5 |
| 67.5° | 3426.0 | 3492.2 | 4095.9  | 5240.8  | 7520.6  | 10354.1 | 12609.0 | 14013.8 | 15393.7 | 15642.5 |
| 70°   | 2472.3 | 2523.5 | 3147.2  | 4144.7  | 6124.5  | 9556.7  | 12571.5 | 14418.8 | 15863.7 | 16062.4 |
| 72.5° | 1168.7 | 1214.9 | 1947.3  | 2691.0  | 4325.9  | 8004.3  | 11812.8 | 14097.6 | 15386.2 | 15287.5 |
| 75°   | 623.7  | 663.7  | 1118.7  | 1476.1  | 2284.8  | 5487.0  | 9666.7  | 12144.0 | 12920.2 | 12440.2 |
| 77.5° | 422.5  | 453.7  | 692.4   | 886.2   | 1043.7  | 2604.8  | 6213.2  | 8408.1  | 8089.3  | 7296.9  |
| 80°   | 335.0  | 367.5  | 567.5   | 600.0   | 505.0   | 941.2   | 2567.3  | 3892.2  | 2796.0  | 2236.1  |
| 82.5° | 257.5  | 293.7  | 477.5   | 435.0   | 275.0   | 386.2   | 747.4   | 1231.1  | 716.2   | 545.0   |
| 85°   | 157.5  | 196.2  | 375.0   | 277.5   | 155.0   | 176.2   | 253.7   | 342.5   | 218.7   | 182.5   |
| 87.5° | 80.0   | 112.5  | 190.0   | 101.2   | 70.0    | 41.2    | 67.5    | 67.5    | 57.5    | 50.0    |
| 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):**

| 85°     |       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3404.7  | 0°    | 3404.7  | 3404.7 | 3404.7 | 3404.7 | 3404.7 | 3404.7 | 3404.7 | 3404.7 | 3404.7 | 3404.7 |
| 3387.2  | 2.5°  | 3417.2  | 3442.2 | 3484.7 | 3524.7 | 3556.0 | 3586.0 | 3616.0 | 3632.2 | 3637.2 | 3657.2 |
| 3406.0  | 5°    | 3457.2  | 3503.5 | 3586.0 | 3663.4 | 3712.2 | 3742.2 | 3763.4 | 3775.9 | 3778.4 | 3784.7 |
| 3457.2  | 7.5°  | 3531.0  | 3604.7 | 3719.7 | 3797.2 | 3833.4 | 3830.9 | 3822.2 | 3790.9 | 3778.4 | 3767.2 |
| 3532.2  | 10°   | 3634.7  | 3732.2 | 3873.4 | 3927.2 | 3904.7 | 3844.7 | 3767.2 | 3675.9 | 3633.5 | 3592.2 |
| 3634.7  | 12.5° | 3763.4  | 3887.2 | 4025.9 | 4023.4 | 3912.2 | 3758.4 | 3578.5 | 3438.5 | 3349.7 | 3286.0 |
| 3760.9  | 15°   | 3919.7  | 4062.2 | 4168.4 | 4083.4 | 3839.7 | 3563.5 | 3299.7 | 3117.2 | 3037.3 | 2967.3 |
| 3888.4  | 17.5° | 4080.9  | 4233.4 | 4282.1 | 4064.7 | 3657.2 | 3274.7 | 2976.0 | 2832.3 | 2753.5 | 2716.0 |
| 4025.9  | 20°   | 4238.4  | 4389.6 | 4349.6 | 3957.2 | 3379.7 | 2947.3 | 2681.0 | 2602.3 | 2586.0 | 2594.8 |
| 4159.7  | 22.5° | 4404.6  | 4539.6 | 4363.4 | 3749.7 | 3026.0 | 2612.3 | 2466.0 | 2468.5 | 2504.8 | 2531.0 |
| 4299.6  | 25°   | 4574.6  | 4665.9 | 4327.1 | 3449.7 | 2646.0 | 2366.1 | 2329.8 | 2369.8 | 2441.0 | 2492.3 |
| 4457.1  | 27.5° | 4738.4  | 4778.4 | 4248.4 | 3078.5 | 2319.8 | 2189.8 | 2196.1 | 2278.6 | 2386.1 | 2457.3 |
| 4648.4  | 30°   | 4923.3  | 4878.3 | 4097.2 | 2661.0 | 2093.6 | 2038.6 | 2091.1 | 2187.3 | 2294.8 | 2358.6 |
| 4889.6  | 32.5° | 5132.1  | 4964.6 | 3857.2 | 2274.8 | 1933.6 | 1917.3 | 2003.6 | 2066.1 | 2113.6 | 2132.3 |
| 5209.6  | 35°   | 5392.1  | 5085.8 | 3549.7 | 2003.6 | 1789.9 | 1828.6 | 1911.1 | 1879.8 | 1861.1 | 1851.1 |
| 5639.5  | 37.5° | 5729.5  | 5249.6 | 3189.7 | 1827.3 | 1673.6 | 1764.9 | 1798.6 | 1701.1 | 1627.4 | 1591.1 |
| 6160.7  | 40°   | 6135.7  | 5489.5 | 2843.5 | 1691.1 | 1599.9 | 1709.9 | 1651.1 | 1533.6 | 1439.9 | 1388.6 |
| 6746.9  | 42.5° | 6587.0  | 5740.8 | 2552.3 | 1588.6 | 1558.6 | 1664.9 | 1542.4 | 1402.4 | 1251.1 | 1234.9 |
| 7445.6  | 45°   | 7060.7  | 5999.5 | 2353.6 | 1509.9 | 1538.6 | 1626.1 | 1479.9 | 1253.6 | 1146.2 | 1212.4 |
| 8146.8  | 47.5° | 7534.4  | 6237.0 | 2233.6 | 1451.1 | 1528.6 | 1582.4 | 1424.9 | 1171.2 | 1094.9 | 1191.2 |
| 8898.0  | 50°   | 8061.8  | 6449.5 | 2179.8 | 1408.6 | 1517.4 | 1564.9 | 1342.4 | 1149.9 | 1041.2 | 1104.9 |
| 9675.5  | 52.5° | 8585.5  | 6614.5 | 2139.8 | 1366.1 | 1501.1 | 1551.1 | 1302.4 | 1124.9 | 976.2  | 979.9  |
| 10457.9 | 55°   | 9108.0  | 6721.9 | 2096.1 | 1309.9 | 1464.9 | 1521.1 | 1298.6 | 1097.4 | 927.4  | 909.9  |
| 11285.3 | 57.5° | 9665.5  | 6783.2 | 2042.3 | 1247.4 | 1402.4 | 1444.9 | 1294.9 | 1076.2 | 912.4  | 883.7  |
| 12131.5 | 60°   | 10232.9 | 6873.2 | 1972.3 | 1171.2 | 1318.6 | 1353.6 | 1286.1 | 1068.7 | 903.7  | 854.9  |
| 12928.9 | 62.5° | 10741.6 | 6904.4 | 1888.6 | 1098.7 | 1211.2 | 1263.6 | 1267.4 | 1062.4 | 879.9  | 796.2  |
| 13591.4 | 65°   | 11075.3 | 6769.4 | 1742.4 | 1016.2 | 1094.9 | 1171.2 | 1231.1 | 1041.2 | 837.4  | 753.7  |
| 13918.9 | 67.5° | 11061.6 | 6384.5 | 1513.6 | 909.9  | 982.4  | 1068.7 | 1178.7 | 1004.9 | 786.2  | 701.2  |
| 13671.4 | 70°   | 10546.6 | 5624.5 | 1223.6 | 786.2  | 858.7  | 958.7  | 1111.2 | 951.2  | 724.9  | 643.7  |
| 12156.5 | 72.5° | 9045.5  | 4402.1 | 888.7  | 641.2  | 714.9  | 844.9  | 1023.7 | 886.2  | 662.4  | 592.5  |
| 8984.3  | 75°   | 6462.0  | 2786.0 | 602.5  | 492.5  | 556.2  | 716.2  | 914.9  | 809.9  | 605.0  | 595.0  |
| 4499.6  | 77.5° | 3301.0  | 1331.1 | 398.7  | 360.0  | 387.5  | 565.0  | 768.7  | 723.7  | 613.7  | 491.2  |
| 1279.9  | 80°   | 1073.7  | 491.2  | 251.2  | 245.0  | 257.5  | 376.2  | 595.0  | 593.7  | 465.0  | 333.7  |
| 310.0   | 82.5° | 342.5   | 211.2  | 163.7  | 157.5  | 151.2  | 236.2  | 415.0  | 470.0  | 313.7  | 211.2  |
| 111.2   | 85°   | 136.2   | 126.2  | 96.2   | 88.7   | 63.7   | 111.2  | 217.5  | 312.5  | 233.7  | 152.5  |
| 28.7    | 87.5° | 50.0    | 50.0   | 26.2   | 18.7   | 13.7   | 37.5   | 58.7   | 93.7   | 133.7  | 78.7   |
| 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> |
|-------------|
| 3404.7      |
| 3668.4      |
| 3794.7      |
| 3769.7      |
| 3579.7      |
| 3271.0      |
| 2959.8      |
| 2727.3      |
| 2591.0      |
| 2537.3      |
| 2506.0      |
| 2474.8      |
| 2373.6      |
| 2142.3      |
| 1861.1      |
| 1599.9      |
| 1392.4      |
| 1251.1      |
| 1247.4      |
| 1236.1      |
| 1152.4      |
| 1006.2      |
| 922.4       |
| 887.4       |
| 858.7       |
| 796.2       |
| 753.7       |
| 704.9       |
| 651.2       |
| 588.7       |
| 561.2       |
| 437.5       |
| 295.0       |
| 210.0       |
| 156.2       |
| 77.5        |
| 0.0         |

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