

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: P942326

Luminaire Tested: **GALN-SB6B-740-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942326  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6B-740-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

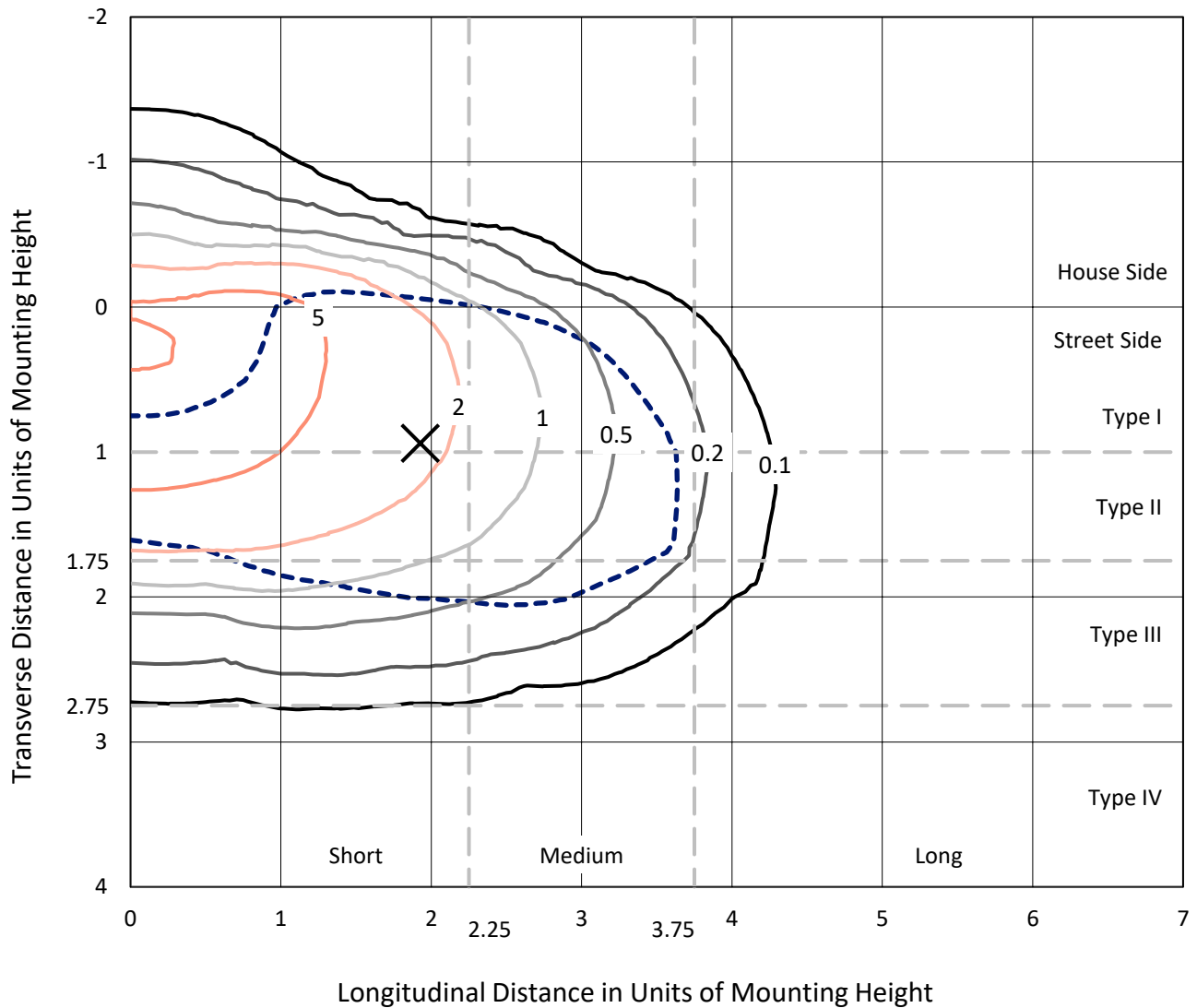
Lumens per Lamp: N/A  
Luminaire Lumens: 28333 lumens  
Efficiency: N/A  
Efficacy: 128.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

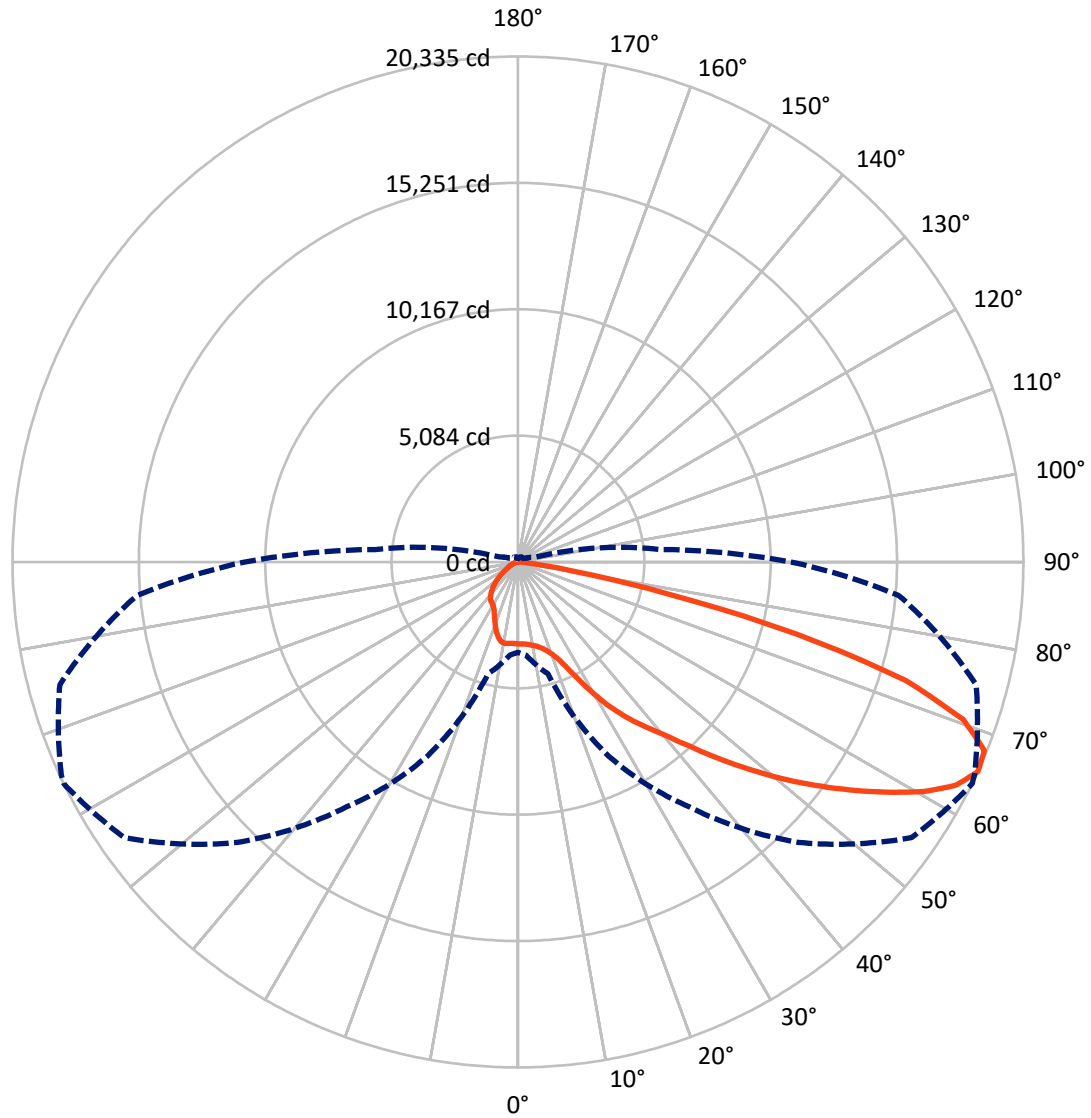
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3789.0   | 0.0    | 3789.0  |
|                    | % Fixture | 13.4     | 0.0    | 13.4    |
| <b>Street Side</b> | Lumens    | 24544.0  | 0.0    | 24544.0 |
|                    | % Fixture | 86.6     | 0.0    | 86.6    |
| <b>Total</b>       | Lumens    | 28333.0  | 0.0    | 28333.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 304.0   | 1.1       |
| 10°-20°   | 824.6   | 2.9       |
| 20°-30°   | 1562.6  | 5.5       |
| 30°-40°   | 3162.0  | 11.2      |
| 40°-50°   | 5386.5  | 19.0      |
| 50°-60°   | 7325.2  | 25.9      |
| 60°-70°   | 6878.7  | 24.3      |
| 70°-80°   | 2755.9  | 9.7       |
| 80°-90°   | 133.5   | 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°    | 28333.0 | 100.0     |
| 0°-180°   | 28333.0 | 100.0     |

**Coefficient of Utilization**



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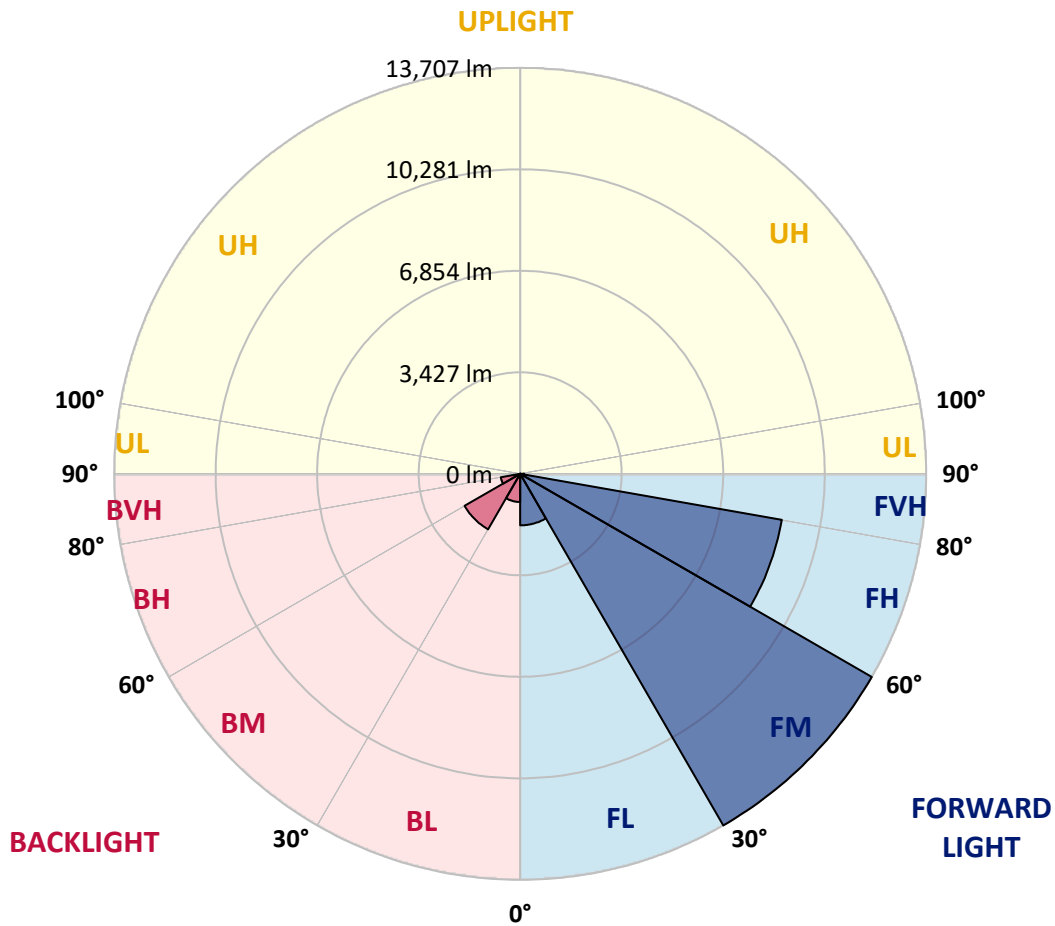
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 1740.0  | 6.1       |                         |      |          |
| FM (30°-60°)   | 13707.5 | 48.4      |                         |      |          |
| FH (60°-80°)   | 8969.6  | 31.7      |                         |      | G4/12000 |
| FVH (80°-90°)  | 127.0   | 0.4       |                         |      | G2/225   |
| BL (0°-30°)    | 951.3   | 3.4       | B2/1000                 |      |          |
| BM (30°-60°)   | 2166.1  | 7.6       | B2/2500                 |      |          |
| BH (60°-80°)   | 665.0   | 2.3       | B2/1000                 |      | G2/1000  |
| BVH (80°-90°)  | 6.5     | 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 Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 64°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3295.4  | 3295.4  | 3295.4  | 3295.4  | 3295.4  | 3295.4  | 3295.4  | 3295.4  | 3295.4  | 3295.4  |
| 2.5°  | 3284.0  | 3306.8  | 3301.1  | 3295.4  | 3293.5  | 3297.3  | 3299.2  | 3297.3  | 3297.3  | 3297.3  |
| 5°    | 3221.3  | 3240.3  | 3240.3  | 3253.6  | 3272.6  | 3295.4  | 3312.5  | 3316.3  | 3320.1  | 3325.8  |
| 7.5°  | 3101.7  | 3116.9  | 3128.3  | 3172.0  | 3219.4  | 3280.2  | 3331.5  | 3358.1  | 3361.9  | 3382.8  |
| 10°   | 3020.0  | 3039.0  | 3058.0  | 3103.6  | 3172.0  | 3263.1  | 3350.5  | 3415.1  | 3424.6  | 3474.0  |
| 12.5° | 3016.2  | 3035.2  | 3059.9  | 3109.3  | 3189.1  | 3285.9  | 3392.3  | 3485.4  | 3502.5  | 3574.6  |
| 15°   | 3056.1  | 3078.9  | 3101.7  | 3162.5  | 3247.9  | 3365.7  | 3479.7  | 3595.5  | 3612.6  | 3715.2  |
| 17.5° | 3137.8  | 3168.2  | 3185.3  | 3246.0  | 3337.2  | 3468.3  | 3618.3  | 3751.3  | 3766.5  | 3886.1  |
| 20°   | 3299.2  | 3335.3  | 3341.0  | 3390.4  | 3479.7  | 3620.2  | 3798.8  | 3964.0  | 3983.0  | 4119.8  |
| 22.5° | 3633.5  | 3684.8  | 3639.2  | 3663.9  | 3743.7  | 3884.2  | 4078.0  | 4286.9  | 4313.5  | 4469.2  |
| 25°   | 4222.3  | 4294.5  | 4176.7  | 4134.9  | 4169.1  | 4315.4  | 4558.5  | 4822.5  | 4852.9  | 4978.3  |
| 27.5° | 5379.0  | 5286.0  | 5107.4  | 4932.7  | 4830.1  | 4913.7  | 5187.2  | 5513.9  | 5551.9  | 5673.4  |
| 30°   | 6649.7  | 6568.1  | 6326.8  | 5939.4  | 5696.2  | 5682.9  | 5935.6  | 6300.2  | 6343.9  | 6459.8  |
| 32.5° | 7922.3  | 7844.4  | 7582.3  | 7105.6  | 6683.9  | 6475.0  | 6649.7  | 7054.3  | 7077.1  | 7151.2  |
| 35°   | 9174.0  | 9094.2  | 8832.1  | 8344.0  | 7825.4  | 7350.6  | 7316.4  | 7772.3  | 7779.9  | 7857.7  |
| 37.5° | 10433.3 | 10366.8 | 10087.6 | 9609.0  | 9098.0  | 8442.7  | 8125.5  | 8452.2  | 8461.7  | 8537.7  |
| 40°   | 11331.7 | 11360.2 | 11168.3 | 10798.0 | 10359.2 | 9643.1  | 9033.4  | 9175.9  | 9118.9  | 9246.2  |
| 42.5° | 12102.8 | 12159.8 | 11992.7 | 11806.5 | 11552.0 | 10921.4 | 10157.9 | 10133.2 | 10042.0 | 10110.4 |
| 45°   | 12769.5 | 12817.0 | 12667.0 | 12623.3 | 12617.6 | 12175.0 | 11386.8 | 11238.6 | 11111.4 | 11098.1 |
| 47.5° | 13014.5 | 13105.7 | 13170.3 | 13316.5 | 13601.5 | 13415.3 | 12657.5 | 12427.6 | 12285.2 | 12180.7 |
| 50°   | 13107.6 | 13204.5 | 13424.8 | 13850.3 | 14524.5 | 14604.3 | 13922.4 | 13664.1 | 13489.4 | 13299.4 |
| 52.5° | 12982.3 | 13155.1 | 13451.4 | 14167.5 | 15145.6 | 15557.8 | 15136.1 | 14910.1 | 14710.7 | 14401.1 |
| 55°   | 12243.4 | 12416.2 | 13022.1 | 14163.7 | 15455.2 | 16226.4 | 16283.4 | 16182.7 | 15958.6 | 15470.4 |
| 57.5° | 10685.9 | 10942.3 | 11901.5 | 13681.2 | 15449.5 | 16801.9 | 17407.8 | 17480.0 | 17229.3 | 16530.3 |
| 60°   | 8528.2  | 8875.8  | 10045.8 | 12611.9 | 14972.8 | 17113.4 | 18393.6 | 18754.5 | 18488.6 | 17575.0 |
| 62.5° | 5950.8  | 6353.4  | 7460.8  | 10936.6 | 13882.6 | 16889.3 | 19113.4 | 19780.1 | 19578.8 | 18509.4 |
| 65°   | 3629.7  | 3758.9  | 4651.6  | 8606.1  | 12028.8 | 15951.0 | 19335.7 | 20334.7 | 20268.3 | 19081.2 |
| 67.5° | 2417.9  | 2526.2  | 2782.6  | 5901.4  | 9337.3  | 14076.3 | 18803.8 | 20237.9 | 20256.9 | 18988.1 |
| 70°   | 1456.8  | 1549.9  | 1717.0  | 3432.2  | 6051.4  | 11141.8 | 17157.1 | 19003.3 | 19113.4 | 17744.0 |
| 72.5° | 600.2   | 662.9   | 814.8   | 1555.6  | 3134.0  | 7071.4  | 13662.2 | 16315.7 | 16572.1 | 14919.6 |
| 75°   | 340.0   | 372.3   | 478.6   | 780.6   | 1360.0  | 3295.4  | 8275.6  | 11582.4 | 11960.4 | 10283.2 |
| 77.5° | 226.0   | 241.2   | 309.6   | 505.2   | 765.4   | 1124.4  | 3536.6  | 6034.3  | 6756.1  | 5616.5  |
| 80°   | 152.0   | 165.2   | 212.7   | 338.1   | 497.6   | 482.4   | 1126.3  | 2235.6  | 2750.3  | 1929.8  |
| 82.5° | 102.6   | 104.5   | 152.0   | 222.2   | 315.3   | 233.6   | 332.4   | 695.2   | 873.7   | 558.4   |
| 85°   | 58.9    | 57.0    | 112.1   | 129.2   | 140.6   | 96.9    | 100.7   | 208.9   | 273.5   | 235.5   |
| 87.5° | 7.6     | 11.4    | 43.7    | 34.2    | 19.0    | 20.9    | 20.9    | 36.1    | 53.2    | 57.0    |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3295.4  | 0°    | 3295.4  | 3295.4  | 3295.4 | 3295.4 | 3295.4 | 3295.4 | 3295.4 | 3295.4 | 3295.4 | 3295.4 |
| 3299.2  | 2.5°  | 3299.2  | 3297.3  | 3291.6 | 3285.9 | 3272.6 | 3265.0 | 3268.8 | 3265.0 | 3263.1 | 3265.0 |
| 3323.9  | 5°    | 3323.9  | 3318.2  | 3303.0 | 3284.0 | 3257.4 | 3225.1 | 3204.3 | 3173.9 | 3145.4 | 3128.3 |
| 3390.4  | 7.5°  | 3390.4  | 3384.7  | 3363.8 | 3310.6 | 3225.1 | 3090.3 | 2966.8 | 2858.6 | 2776.9 | 2729.4 |
| 3496.8  | 10°   | 3496.8  | 3487.3  | 3455.0 | 3337.2 | 3113.1 | 2818.7 | 2573.7 | 2370.4 | 2237.5 | 2174.8 |
| 3622.1  | 12.5° | 3622.1  | 3610.7  | 3553.7 | 3312.5 | 2900.4 | 2440.7 | 2102.6 | 1876.6 | 1753.1 | 1698.0 |
| 3766.5  | 15°   | 3770.3  | 3755.1  | 3643.0 | 3194.8 | 2590.8 | 2022.8 | 1713.2 | 1544.2 | 1464.4 | 1415.0 |
| 3950.7  | 17.5° | 3954.5  | 3927.9  | 3709.5 | 3018.1 | 2254.6 | 1703.7 | 1473.9 | 1346.7 | 1276.4 | 1228.9 |
| 4191.9  | 20°   | 4193.8  | 4150.1  | 3762.7 | 2807.3 | 1945.0 | 1502.4 | 1312.5 | 1206.1 | 1152.9 | 1111.1 |
| 4533.8  | 22.5° | 4528.1  | 4465.4  | 3827.2 | 2579.4 | 1726.5 | 1363.8 | 1192.8 | 1114.9 | 1071.2 | 1023.8 |
| 5010.6  | 25°   | 4942.2  | 4868.1  | 3907.0 | 2368.5 | 1576.5 | 1244.1 | 1105.4 | 1040.9 | 989.6  | 934.5  |
| 5635.5  | 27.5° | 5521.5  | 5388.5  | 4002.0 | 2195.7 | 1447.3 | 1141.5 | 1025.7 | 953.5  | 894.6  | 849.0  |
| 6343.9  | 30°   | 6167.3  | 5948.9  | 4085.6 | 2091.2 | 1329.6 | 1046.6 | 921.2  | 849.0  | 793.9  | 761.7  |
| 6980.2  | 32.5° | 6778.9  | 6482.6  | 4140.6 | 2045.6 | 1223.2 | 938.3  | 807.2  | 729.4  | 687.6  | 678.1  |
| 7603.2  | 35°   | 7356.3  | 6965.0  | 4134.9 | 2001.9 | 1128.2 | 830.0  | 695.2  | 615.4  | 583.1  | 588.8  |
| 8273.7  | 37.5° | 8021.1  | 7479.8  | 4095.1 | 1933.6 | 1050.4 | 731.3  | 598.3  | 528.0  | 499.5  | 501.4  |
| 9088.5  | 40°   | 8794.1  | 8074.3  | 4070.4 | 1804.4 | 964.9  | 640.1  | 518.5  | 461.5  | 440.7  | 433.1  |
| 9947.0  | 42.5° | 9618.5  | 8649.8  | 4074.2 | 1658.2 | 858.5  | 558.4  | 463.4  | 416.0  | 397.0  | 391.3  |
| 10902.4 | 45°   | 10446.6 | 9198.7  | 4079.9 | 1506.2 | 746.5  | 495.7  | 423.6  | 383.7  | 372.3  | 364.7  |
| 11871.1 | 47.5° | 11225.3 | 9665.9  | 3973.5 | 1342.9 | 636.3  | 448.3  | 391.3  | 364.7  | 355.2  | 345.7  |
| 12843.6 | 50°   | 11950.9 | 9977.4  | 3717.1 | 1152.9 | 548.9  | 410.3  | 366.6  | 347.6  | 338.1  | 328.6  |
| 13724.9 | 52.5° | 12515.0 | 10026.8 | 3293.5 | 957.3  | 488.1  | 381.8  | 351.4  | 334.3  | 322.9  | 313.4  |
| 14437.2 | 55°   | 12765.7 | 9717.2  | 2691.4 | 774.9  | 440.7  | 357.1  | 336.2  | 319.1  | 305.8  | 296.3  |
| 14997.5 | 57.5° | 12701.1 | 9065.7  | 2098.8 | 623.0  | 395.1  | 332.4  | 317.2  | 305.8  | 290.6  | 275.4  |
| 15451.4 | 60°   | 12383.9 | 8193.9  | 1582.2 | 518.5  | 353.3  | 305.8  | 296.3  | 286.8  | 265.9  | 243.1  |
| 15626.2 | 62.5° | 11835.0 | 7098.0  | 1128.2 | 429.3  | 307.7  | 275.4  | 271.6  | 264.0  | 233.6  | 191.8  |
| 15367.9 | 65°   | 10995.5 | 5766.5  | 759.8  | 357.1  | 264.0  | 241.2  | 243.1  | 229.8  | 189.9  | 142.5  |
| 14422.0 | 67.5° | 9768.5  | 4216.6  | 486.2  | 292.5  | 220.3  | 201.3  | 203.2  | 195.6  | 161.4  | 121.6  |
| 12629.0 | 70°   | 8205.3  | 2792.1  | 317.2  | 222.2  | 176.6  | 155.7  | 167.1  | 169.0  | 136.8  | 98.8   |
| 9692.5  | 72.5° | 6015.3  | 1648.7  | 222.2  | 165.2  | 129.2  | 108.3  | 136.8  | 140.6  | 110.2  | 74.1   |
| 5831.1  | 75°   | 3428.4  | 782.5   | 167.1  | 119.7  | 79.8   | 76.0   | 106.4  | 106.4  | 76.0   | 49.4   |
| 2524.3  | 77.5° | 1439.7  | 326.7   | 117.8  | 77.9   | 45.6   | 43.7   | 72.2   | 66.5   | 38.0   | 22.8   |
| 615.4   | 80°   | 416.0   | 146.3   | 62.7   | 38.0   | 19.0   | 17.1   | 28.5   | 20.9   | 9.5    | 3.8    |
| 233.6   | 82.5° | 163.3   | 64.6    | 24.7   | 15.2   | 7.6    | 7.6    | 3.8    | 0.0    | 0.0    | 0.0    |
| 133.0   | 85°   | 96.9    | 26.6    | 11.4   | 5.7    | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 28.5    | 87.5° | 24.7    | 5.7     | 3.8    | 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> |
| 3295.4      |
| 3272.6      |
| 3132.1      |
| 2731.3      |
| 2169.1      |
| 1692.3      |
| 1416.9      |
| 1225.1      |
| 1103.5      |
| 1016.2      |
| 928.8       |
| 839.5       |
| 756.0       |
| 683.8       |
| 588.8       |
| 509.0       |
| 431.2       |
| 389.4       |
| 364.7       |
| 345.7       |
| 328.6       |
| 311.5       |
| 294.4       |
| 273.5       |
| 239.3       |
| 188.0       |
| 138.7       |
| 115.9       |
| 95.0        |
| 70.3        |
| 45.6        |
| 22.8        |
| 3.8         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

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