

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: P957060

Luminaire Tested: **GALN-SB9C-740-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957060  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB9C-740-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

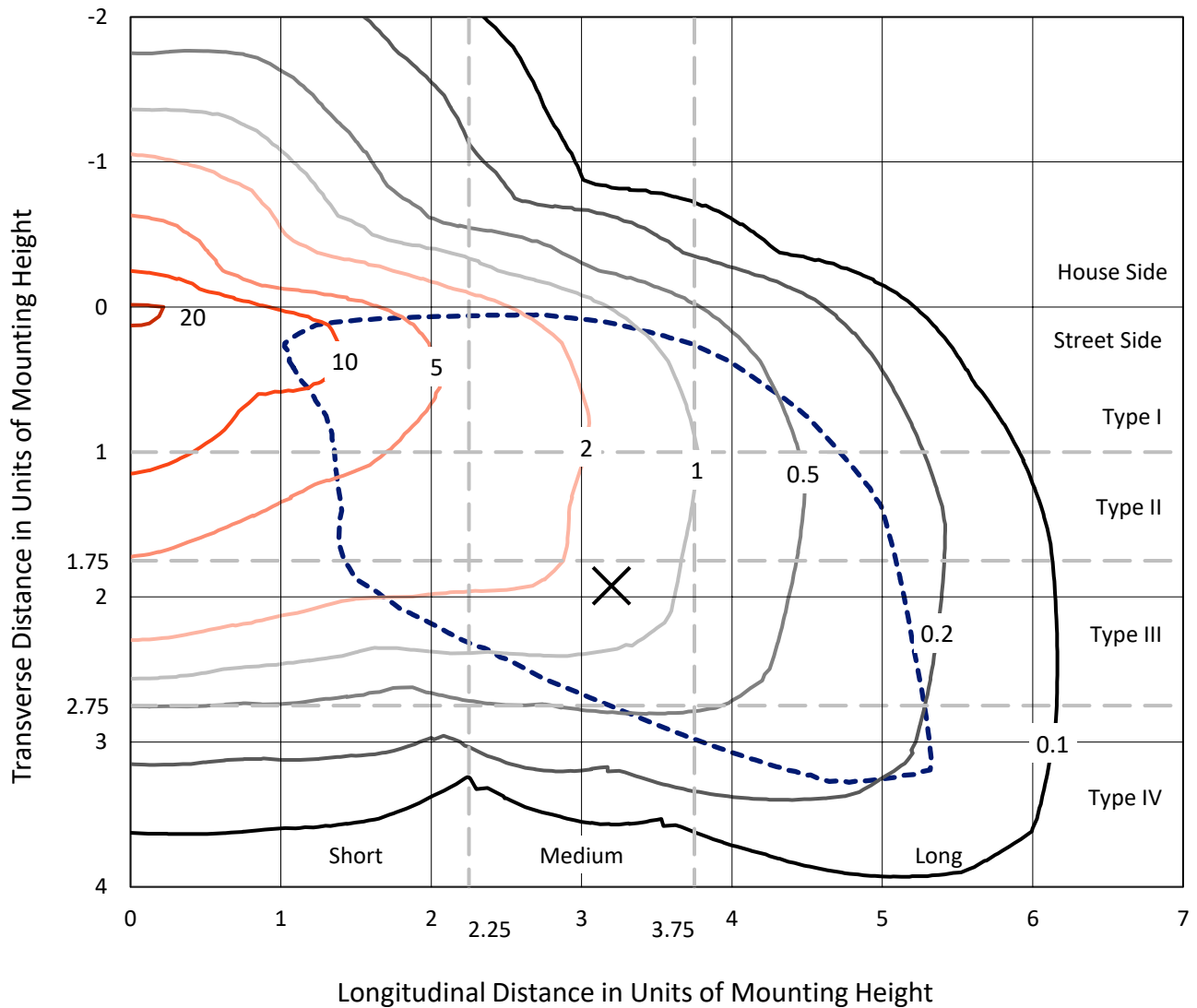
Lumens per Lamp: N/A  
Luminaire Lumens: 70532 lumens  
Efficiency: N/A  
Efficacy: 156.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

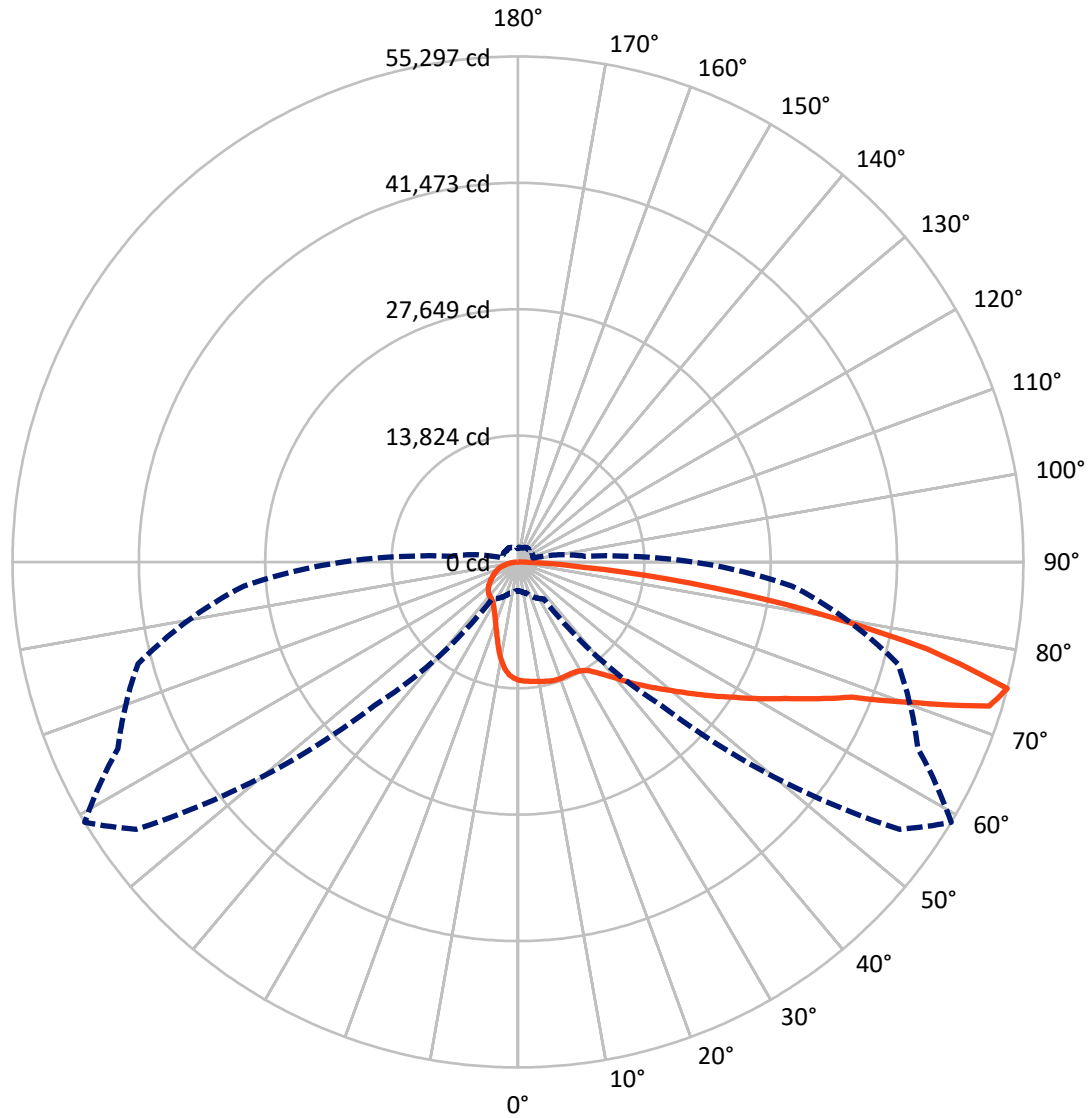
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13228.8  | 0.0    | 13228.8 |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 57303.2  | 0.0    | 57303.2 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 70532.0  | 0.0    | 70532.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1160.8  | 1.6       |
| 10°-20°   | 2967.1  | 4.2       |
| 20°-30°   | 4506.8  | 6.4       |
| 30°-40°   | 6699.3  | 9.5       |
| 40°-50°   | 9963.0  | 14.1      |
| 50°-60°   | 13523.6 | 19.2      |
| 60°-70°   | 16510.1 | 23.4      |
| 70°-80°   | 12956.9 | 18.4      |
| 80°-90°   | 2244.5  | 3.2       |
| 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°    | 70532.0 | 100.0     |
| 0°-180°   | 70532.0 | 100.0     |

**Coefficient of Utilization**

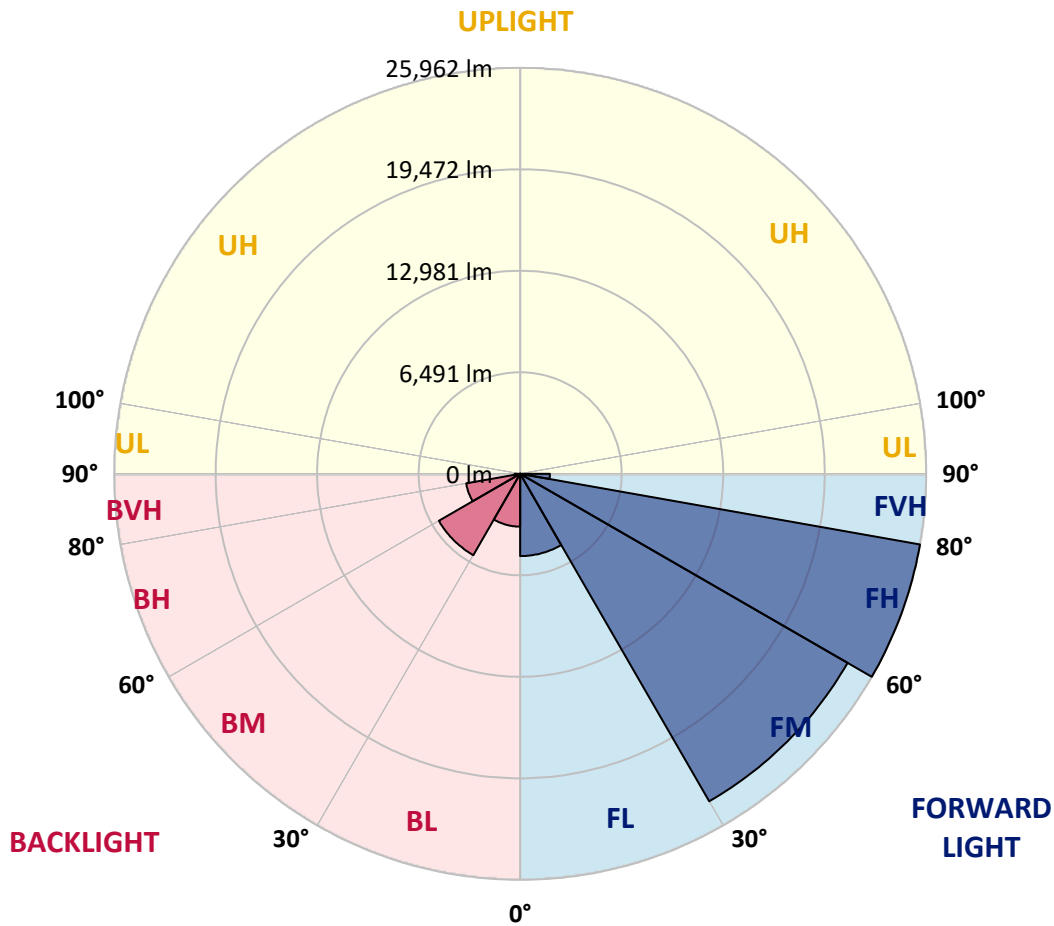


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 5258.9  | 7.5       |                         |      |         |
| FM   | (30°-60°)   | 24181.3 | 34.3      |                         |      |         |
| FH   | (60°-80°)   | 25962.1 | 36.8      |                         |      | G5      |
| FVH  | (80°-90°)   | 1900.9  | 2.7       |                         |      | G5      |
| BL   | (0°-30°)    | 3375.8  | 4.8       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 6004.5  | 8.5       | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3504.8  | 5.0       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 343.6   | 0.5       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**  
 Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12946.0 | 12946.0 | 12946.0 | 12946.0 | 12946.0 | 12946.0 | 12946.0 | 12946.0 | 12946.0 | 12946.0 |
| 2.5°  | 13056.0 | 13010.5 | 13056.0 | 13037.1 | 13029.5 | 13014.3 | 13018.1 | 13044.6 | 13029.5 | 13048.4 |
| 5°    | 12968.8 | 12942.2 | 12987.7 | 12976.3 | 13025.7 | 13033.3 | 13082.6 | 13112.9 | 13131.9 | 13135.7 |
| 7.5°  | 12824.6 | 12798.0 | 12862.5 | 12915.6 | 13021.9 | 13052.2 | 13154.7 | 13204.0 | 13230.6 | 13276.1 |
| 10°   | 12297.2 | 12285.8 | 12445.2 | 12646.2 | 12896.7 | 13052.2 | 13207.8 | 13291.3 | 13333.0 | 13454.4 |
| 12.5° | 11363.8 | 11379.0 | 11587.6 | 11974.7 | 12475.5 | 12976.3 | 13268.5 | 13389.9 | 13454.4 | 13606.2 |
| 15°   | 10472.1 | 10468.3 | 10696.0 | 11109.6 | 11811.5 | 12642.5 | 13298.9 | 13507.5 | 13617.6 | 13841.4 |
| 17.5° | 9956.1  | 9940.9  | 10100.3 | 10415.2 | 11067.8 | 12130.2 | 13223.0 | 13572.0 | 13807.3 | 14088.1 |
| 20°   | 9861.3  | 9830.9  | 9914.4  | 10069.9 | 10532.8 | 11568.7 | 13025.7 | 13572.0 | 13959.1 | 14323.3 |
| 22.5° | 10206.5 | 10157.2 | 10123.1 | 10104.1 | 10309.0 | 11105.8 | 12801.8 | 13526.5 | 14182.9 | 14661.0 |
| 25°   | 10900.9 | 10825.0 | 10650.5 | 10479.7 | 10419.0 | 10897.1 | 12604.5 | 13515.1 | 14516.8 | 15116.3 |
| 27.5° | 12024.0 | 11929.1 | 11576.3 | 11166.5 | 10798.4 | 11003.3 | 12517.2 | 13583.4 | 14884.9 | 15598.2 |
| 30°   | 13416.5 | 13314.0 | 12870.1 | 12240.3 | 11580.1 | 11397.9 | 12627.3 | 13784.5 | 15355.3 | 16239.4 |
| 32.5° | 14664.8 | 14551.0 | 14171.5 | 13530.3 | 12638.7 | 12080.9 | 12976.3 | 14167.7 | 16095.2 | 17131.1 |
| 35°   | 15772.7 | 15639.9 | 15298.4 | 14706.5 | 13936.3 | 13040.8 | 13606.2 | 14846.9 | 17146.2 | 18580.5 |
| 37.5° | 16857.9 | 16702.3 | 16330.5 | 15704.4 | 15165.6 | 14319.5 | 14475.1 | 15719.6 | 18542.5 | 20341.0 |
| 40°   | 18072.0 | 17848.2 | 17396.7 | 16778.2 | 16254.6 | 15818.2 | 15617.1 | 16789.6 | 19961.6 | 22306.4 |
| 42.5° | 19248.2 | 19035.8 | 18497.0 | 17969.6 | 17313.2 | 17188.0 | 16941.3 | 18041.7 | 21513.4 | 24465.3 |
| 45°   | 20515.5 | 20261.3 | 19608.7 | 18940.9 | 18527.3 | 18098.6 | 18223.8 | 19293.8 | 23034.9 | 26666.0 |
| 47.5° | 21703.1 | 21418.6 | 20648.3 | 19904.7 | 19677.0 | 18865.0 | 19400.0 | 20671.1 | 24617.1 | 28897.0 |
| 50°   | 22344.4 | 22063.6 | 21422.4 | 20750.8 | 20572.4 | 19809.8 | 20674.9 | 22185.0 | 26275.2 | 31120.5 |
| 52.5° | 22879.3 | 22575.8 | 21737.3 | 21365.4 | 21312.3 | 20838.0 | 22245.7 | 23915.2 | 27933.3 | 33085.9 |
| 55°   | 23448.5 | 23110.8 | 22040.8 | 21706.9 | 21949.8 | 21991.5 | 24108.7 | 25876.8 | 29686.2 | 35002.0 |
| 57.5° | 24104.9 | 23676.1 | 22333.0 | 21995.3 | 22572.0 | 23342.2 | 26248.6 | 27910.5 | 31408.8 | 36777.7 |
| 60°   | 24723.4 | 24290.8 | 22894.5 | 22454.4 | 23243.6 | 24909.3 | 28703.5 | 30373.0 | 33359.1 | 38359.9 |
| 62.5° | 24844.8 | 24488.1 | 23342.2 | 23338.5 | 24154.2 | 26738.1 | 31609.9 | 32858.2 | 35062.7 | 39923.1 |
| 65°   | 22742.8 | 22518.9 | 21839.7 | 23304.3 | 25459.4 | 29371.3 | 34846.4 | 36037.8 | 37229.2 | 41289.1 |
| 67.5° | 17309.4 | 17339.7 | 17290.4 | 20117.1 | 24404.6 | 33154.2 | 39532.3 | 39441.3 | 39904.2 | 42821.9 |
| 70°   | 7914.8  | 8093.1  | 9254.2  | 13887.0 | 19551.8 | 33590.5 | 47280.2 | 46100.2 | 43262.1 | 44806.3 |
| 72.5° | 4276.1  | 4412.7  | 4887.0  | 6727.2  | 11754.6 | 29864.6 | 53070.2 | 53908.7 | 47727.9 | 46141.9 |
| 75°   | 3137.8  | 3213.7  | 3543.8  | 4276.1  | 4936.3  | 22196.4 | 50994.8 | 55297.4 | 48285.7 | 43026.8 |
| 77.5° | 2348.6  | 2382.8  | 2652.2  | 3388.3  | 2527.0  | 11701.5 | 40746.5 | 45796.6 | 41334.6 | 35351.1 |
| 80°   | 1703.6  | 1741.6  | 1942.7  | 2542.1  | 1771.9  | 4279.9  | 27978.8 | 32144.9 | 28308.9 | 22534.1 |
| 82.5° | 1176.2  | 1191.4  | 1278.7  | 1730.2  | 1236.9  | 1661.9  | 15875.2 | 18849.8 | 15803.1 | 7907.2  |
| 85°   | 709.5   | 728.5   | 766.4   | 1009.3  | 701.9   | 789.2   | 6852.4  | 7087.7  | 4723.8  | 1889.5  |
| 87.5° | 292.2   | 311.1   | 341.5   | 425.0   | 277.0   | 220.1   | 1130.7  | 1419.1  | 884.1   | 554.0   |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 12946.0 | 0°    | 12946.0 | 12946.0 | 12946.0 | 12946.0 | 12946.0 | 12946.0 | 12946.0 | 12946.0 | 12946.0 | 12946.0 |
| 12983.9 | 2.5°  | 12965.0 | 12938.4 | 12866.3 | 12767.7 | 12676.6 | 12562.8 | 12513.4 | 12471.7 | 12433.8 | 12361.7 |
| 13086.4 | 5°    | 13044.6 | 12972.6 | 12779.0 | 12528.6 | 12244.1 | 11932.9 | 11629.4 | 11420.7 | 11242.4 | 11109.6 |
| 13204.0 | 7.5°  | 13166.1 | 13029.5 | 12676.6 | 12164.4 | 11511.8 | 10844.0 | 10240.7 | 9811.9  | 9489.4  | 9371.8  |
| 13370.9 | 10°   | 13291.3 | 13128.1 | 12513.4 | 11610.4 | 10483.5 | 9455.3  | 8654.7  | 8214.6  | 7956.5  | 7873.1  |
| 13568.2 | 12.5° | 13439.2 | 13200.2 | 12259.2 | 10840.2 | 9333.9  | 8207.0  | 7508.8  | 7250.8  | 7118.0  | 7072.5  |
| 13811.1 | 15°   | 13655.5 | 13260.9 | 11876.0 | 9876.4  | 8237.3  | 7296.3  | 6844.8  | 6666.5  | 6598.2  | 6594.4  |
| 14061.5 | 17.5° | 13818.7 | 13272.3 | 11280.3 | 8844.4  | 7395.0  | 6746.2  | 6374.3  | 6306.0  | 6351.6  | 6419.9  |
| 14308.1 | 20°   | 14000.8 | 13169.9 | 10498.7 | 7903.4  | 6803.1  | 6264.3  | 6108.7  | 6154.3  | 6264.3  | 6363.0  |
| 14634.4 | 22.5° | 14129.8 | 12983.9 | 9553.9  | 7171.1  | 6290.9  | 5987.3  | 5979.7  | 6074.6  | 6135.3  | 6184.6  |
| 15017.7 | 25°   | 14243.6 | 12669.0 | 8552.2  | 6556.5  | 5869.7  | 5820.4  | 5903.9  | 5873.5  | 5831.8  | 5873.5  |
| 15400.9 | 27.5° | 14327.1 | 12172.0 | 7656.8  | 6017.7  | 5573.8  | 5706.6  | 5657.2  | 5588.9  | 5585.1  | 5607.9  |
| 15852.4 | 30°   | 14300.5 | 11508.0 | 6920.7  | 5505.5  | 5365.1  | 5494.1  | 5376.5  | 5365.1  | 5353.7  | 5365.1  |
| 16531.6 | 32.5° | 14300.5 | 10752.9 | 6355.4  | 5152.6  | 5232.3  | 5182.9  | 5171.6  | 5145.0  | 5099.5  | 5095.7  |
| 17453.6 | 35°   | 14380.2 | 9997.9  | 5869.7  | 4962.9  | 5122.2  | 5004.6  | 5012.2  | 4947.7  | 4852.8  | 4807.3  |
| 18675.3 | 37.5° | 14543.4 | 9390.8  | 5387.8  | 4871.8  | 4928.7  | 4924.9  | 4894.6  | 4784.6  | 4617.6  | 4473.4  |
| 20200.6 | 40°   | 14938.0 | 9212.4  | 5057.7  | 4830.1  | 4837.7  | 4883.2  | 4803.5  | 4591.0  | 4211.6  | 3976.4  |
| 21748.7 | 42.5° | 15556.4 | 9512.2  | 4985.6  | 4727.6  | 4777.0  | 4822.5  | 4666.9  | 4173.7  | 3904.3  | 3763.9  |
| 23372.6 | 45°   | 16341.8 | 10035.8 | 5141.2  | 4579.7  | 4632.8  | 4712.5  | 4249.6  | 4014.3  | 3892.9  | 3896.7  |
| 24981.4 | 47.5° | 17335.9 | 10586.0 | 5429.6  | 4450.7  | 4424.1  | 4469.6  | 3972.6  | 3828.4  | 3661.5  | 3703.2  |
| 26525.6 | 50°   | 18485.6 | 11143.7 | 5702.8  | 4276.1  | 4192.6  | 4044.7  | 3794.3  | 3657.7  | 3445.2  | 3346.5  |
| 28016.8 | 52.5° | 19730.1 | 11682.5 | 5812.8  | 4063.6  | 3942.2  | 3771.5  | 3672.8  | 3505.9  | 3247.9  | 3084.7  |
| 29424.4 | 55°   | 20910.1 | 12172.0 | 5691.4  | 3809.4  | 3691.8  | 3559.0  | 3543.8  | 3441.4  | 3164.4  | 2936.8  |
| 30676.5 | 57.5° | 22025.6 | 12581.7 | 5387.8  | 3551.4  | 3437.6  | 3357.9  | 3460.4  | 3411.0  | 3062.0  | 2769.8  |
| 31860.3 | 60°   | 22970.4 | 12862.5 | 4947.7  | 3289.6  | 3209.9  | 3168.2  | 3323.8  | 3308.6  | 2917.8  | 2591.5  |
| 32922.7 | 62.5° | 23721.7 | 12972.6 | 4462.0  | 3039.2  | 3020.2  | 2944.3  | 3134.1  | 3134.1  | 2735.7  | 2416.9  |
| 33856.1 | 65°   | 24309.8 | 12866.3 | 3968.8  | 2792.6  | 2830.5  | 2716.7  | 2902.6  | 2879.8  | 2542.1  | 2261.4  |
| 34929.9 | 67.5° | 24829.6 | 12517.2 | 3422.4  | 2549.7  | 2637.0  | 2492.8  | 2659.8  | 2606.7  | 2329.7  | 2105.8  |
| 35859.5 | 70°   | 25061.0 | 11705.3 | 2800.2  | 2306.9  | 2413.1  | 2272.8  | 2416.9  | 2318.3  | 2090.6  | 1938.9  |
| 34838.8 | 72.5° | 23201.9 | 9728.5  | 2204.5  | 2052.7  | 2143.8  | 2029.9  | 2155.1  | 2041.3  | 1832.6  | 1764.3  |
| 30084.6 | 75°   | 19195.1 | 7300.1  | 1696.0  | 1775.7  | 1844.0  | 1756.7  | 1840.2  | 1756.7  | 1567.0  | 1616.4  |
| 22222.9 | 77.5° | 13940.1 | 4928.7  | 1297.6  | 1483.6  | 1513.9  | 1468.4  | 1540.5  | 1445.6  | 1274.9  | 1263.5  |
| 11075.4 | 80°   | 6932.1  | 2887.4  | 1016.9  | 1172.4  | 1161.0  | 1130.7  | 1214.2  | 1168.6  | 1024.4  | 1085.2  |
| 2989.9  | 82.5° | 2007.2  | 1236.9  | 739.9   | 823.4   | 800.6   | 808.2   | 868.9   | 891.6   | 1335.6  | 1324.2  |
| 929.6   | 85°   | 629.8   | 485.7   | 443.9   | 459.1   | 436.3   | 447.7   | 512.2   | 1016.9  | 941.0   | 550.2   |
| 288.4   | 87.5° | 163.2   | 166.9   | 110.0   | 117.6   | 121.4   | 144.2   | 163.2   | 618.5   | 296.0   | 193.5   |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END O

| <u>180°</u> |
|-------------|
| 12946.0     |
| 12327.5     |
| 10999.5     |
| 9166.9      |
| 7744.1      |
| 7083.9      |
| 6609.6      |
| 6446.4      |
| 6397.1      |
| 6211.2      |
| 5900.1      |
| 5645.8      |
| 5406.8      |
| 5145.0      |
| 4852.8      |
| 4522.7      |
| 4006.7      |
| 3763.9      |
| 3915.7      |
| 3809.4      |
| 3373.1      |
| 3080.9      |
| 2936.8      |
| 2754.6      |
| 2580.1      |
| 2405.6      |
| 2246.2      |
| 2090.6      |
| 1908.5      |
| 1707.4      |
| 1476.0      |
| 1206.6      |
| 1073.8      |
| 1354.5      |
| 595.7       |
| 204.9       |
| 0.0         |

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