

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: P949200

Luminaire Tested: **GALN-SB4A-740-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949200  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4A-740-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

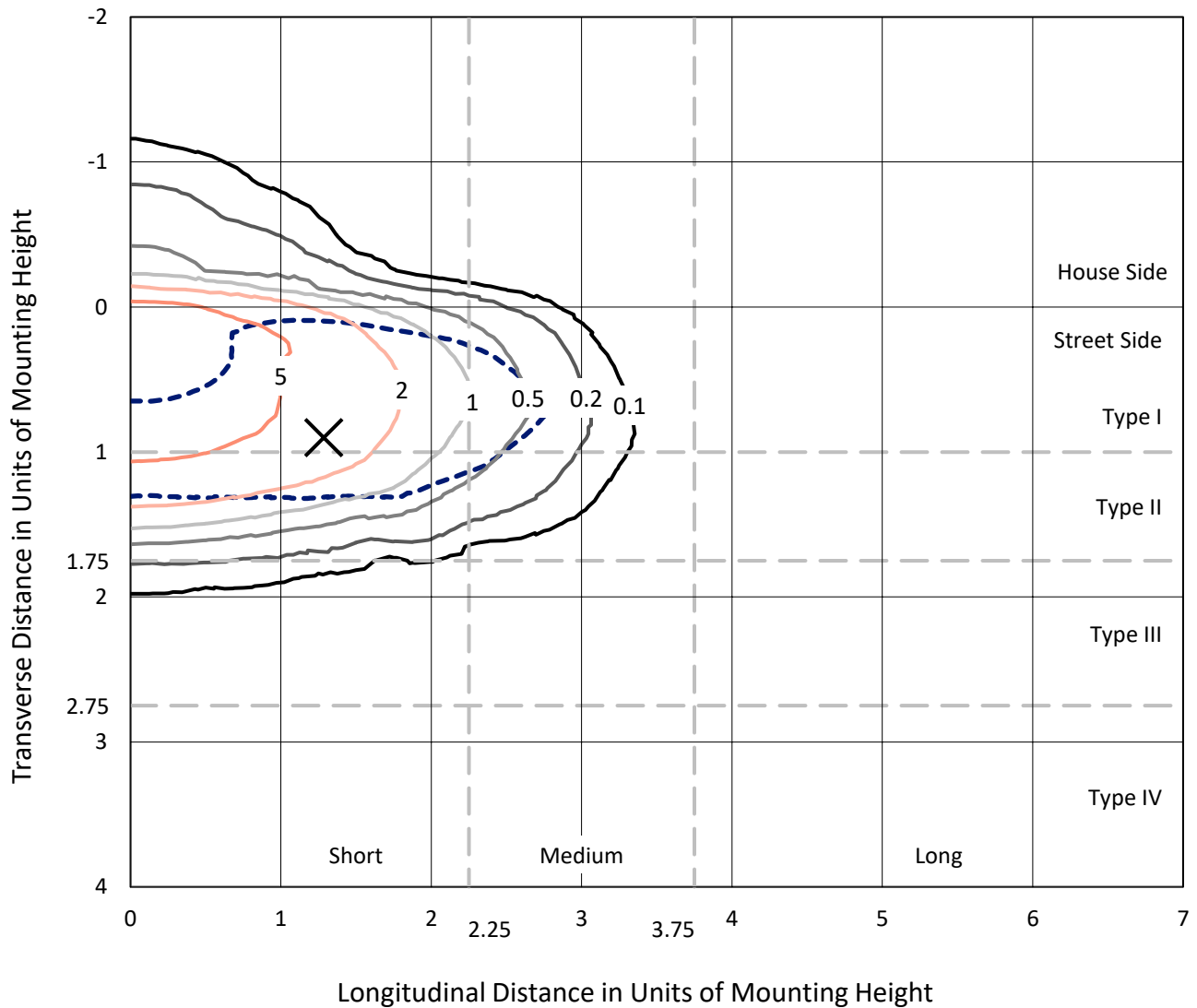
Lumens per Lamp: N/A  
Luminaire Lumens: 16217 lumens  
Efficiency: N/A  
Efficacy: 142.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

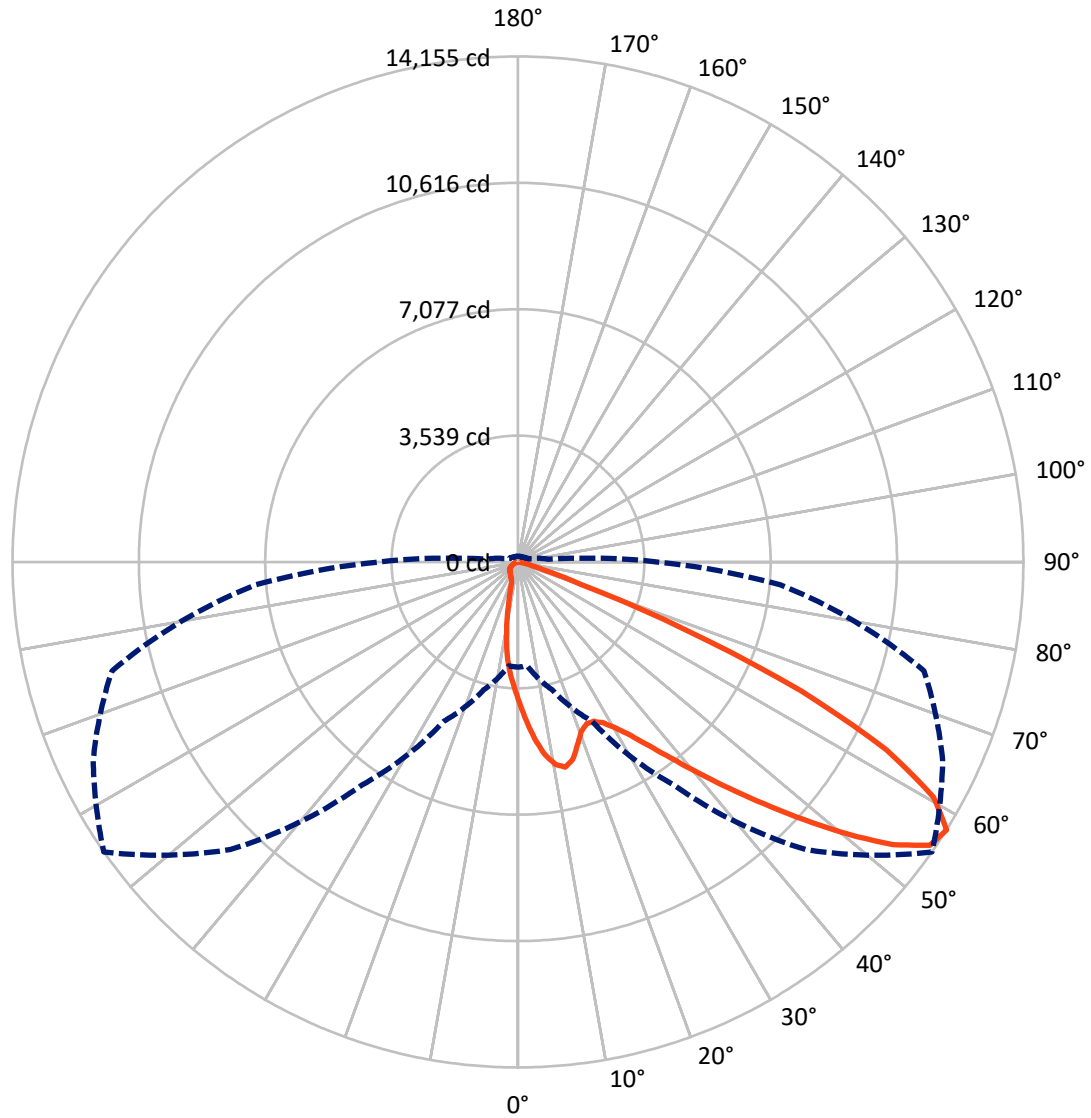
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1266.5   | 0.0    | 1266.5  |
|                    | % Fixture | 7.8      | 0.0    | 7.8     |
| <b>Street Side</b> | Lumens    | 14950.5  | 0.0    | 14950.5 |
|                    | % Fixture | 92.2     | 0.0    | 92.2    |
| <b>Total</b>       | Lumens    | 16217.0  | 0.0    | 16217.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 363.6   | 2.2       |
| 10°-20°   | 878.3   | 5.4       |
| 20°-30°   | 1405.3  | 8.7       |
| 30°-40°   | 2378.5  | 14.7      |
| 40°-50°   | 3905.0  | 24.1      |
| 50°-60°   | 4291.9  | 26.5      |
| 60°-70°   | 2461.8  | 15.2      |
| 70°-80°   | 503.0   | 3.1       |
| 80°-90°   | 29.7    | 0.2       |
| 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°    | 16217.0 | 100.0     |
| 0°-180°   | 16217.0 | 100.0     |

**Coefficient of Utilization**



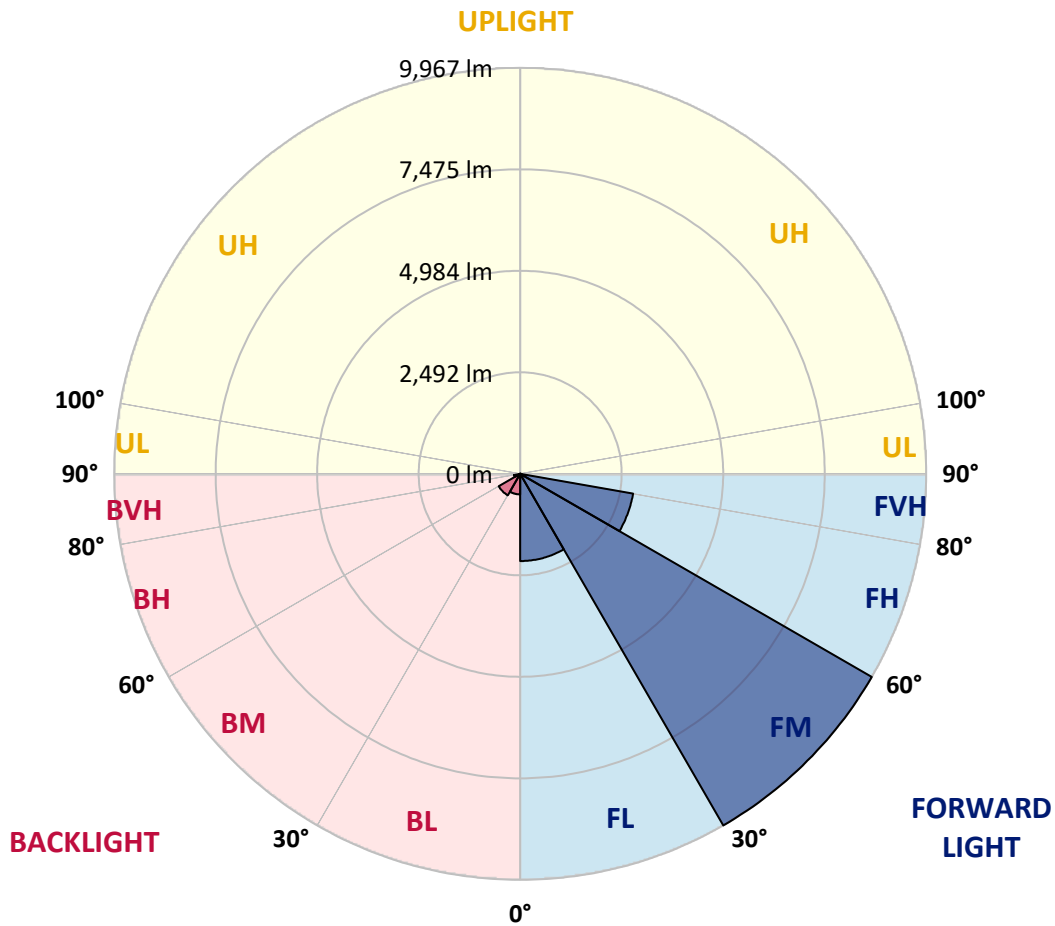
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2141.6 | 13.2      |                         |      |         |
| FM (30°-60°)   | 9967.1 | 61.5      |                         |      |         |
| FH (60°-80°)   | 2814.2 | 17.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 27.7   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 505.6  | 3.1       | B2/1000                 |      |         |
| BM (30°-60°)   | 608.3  | 3.8       | B1/1000                 |      |         |
| BH (60°-80°)   | 150.6  | 0.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.0    | 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-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 3907.9  | 3907.9  | 3907.9  | 3907.9  | 3907.9  | 3907.9  | 3907.9  | 3907.9  | 3907.9  | 3907.9 |
| 2.5°  | 4848.9  | 4787.9  | 4778.9  | 4766.9  | 4650.9  | 4563.9  | 4437.9  | 4299.9  | 4144.9  | 3986.9 |
| 5°    | 5601.9  | 5553.9  | 5544.9  | 5488.9  | 5356.9  | 5208.9  | 4984.9  | 4701.9  | 4412.9  | 4072.9 |
| 7.5°  | 5747.8  | 5738.8  | 5779.8  | 5777.8  | 5759.8  | 5642.9  | 5453.9  | 5116.9  | 4682.9  | 4178.9 |
| 10°   | 5096.9  | 5119.9  | 5241.9  | 5348.9  | 5637.9  | 5805.8  | 5764.8  | 5486.9  | 4960.9  | 4299.9 |
| 12.5° | 4503.9  | 4476.9  | 4563.9  | 4684.9  | 5020.9  | 5520.9  | 5893.8  | 5795.8  | 5278.9  | 4436.9 |
| 15°   | 4131.9  | 4120.9  | 4169.9  | 4225.9  | 4481.9  | 4985.9  | 5743.8  | 6046.8  | 5584.9  | 4598.9 |
| 17.5° | 4012.9  | 4003.9  | 4018.9  | 4032.9  | 4198.9  | 4588.9  | 5386.9  | 6200.8  | 5877.8  | 4783.9 |
| 20°   | 4109.9  | 4097.9  | 4095.9  | 4084.9  | 4153.9  | 4419.9  | 5063.9  | 6211.8  | 6140.8  | 4951.9 |
| 22.5° | 4392.9  | 4378.9  | 4329.9  | 4285.9  | 4291.9  | 4442.9  | 4919.9  | 6101.8  | 6338.8  | 5108.9 |
| 25°   | 4905.9  | 4882.9  | 4780.9  | 4632.9  | 4538.9  | 4602.9  | 4941.9  | 5956.8  | 6527.8  | 5231.9 |
| 27.5° | 5547.9  | 5517.9  | 5386.9  | 5166.9  | 4951.9  | 4873.9  | 5100.9  | 5856.8  | 6684.8  | 5325.9 |
| 30°   | 6176.8  | 6137.8  | 6008.8  | 5837.8  | 5523.9  | 5277.9  | 5387.9  | 5900.8  | 6871.8  | 5423.9 |
| 32.5° | 6855.8  | 6818.8  | 6647.8  | 6435.8  | 6175.8  | 5844.8  | 5780.8  | 6115.8  | 7100.8  | 5560.9 |
| 35°   | 7714.8  | 7656.8  | 7413.8  | 7124.8  | 6848.8  | 6513.8  | 6312.8  | 6486.8  | 7405.8  | 5769.8 |
| 37.5° | 8692.8  | 8614.8  | 8352.8  | 7953.8  | 7593.8  | 7218.8  | 6960.8  | 6996.8  | 7852.8  | 6049.8 |
| 40°   | 9614.7  | 9543.7  | 9301.8  | 8925.8  | 8473.8  | 8018.8  | 7743.8  | 7663.8  | 8469.8  | 6390.8 |
| 42.5° | 10167.7 | 10103.7 | 10001.7 | 9842.7  | 9461.8  | 8997.8  | 8650.8  | 8477.8  | 9199.8  | 6798.8 |
| 45°   | 10198.7 | 10142.7 | 10279.7 | 10464.7 | 10389.7 | 10080.7 | 9657.7  | 9340.8  | 9932.7  | 7181.8 |
| 47.5° | 9702.7  | 9664.7  | 10080.7 | 10726.7 | 11048.7 | 11178.7 | 10788.7 | 10131.7 | 10537.7 | 7456.8 |
| 50°   | 8350.8  | 8336.8  | 9192.8  | 10378.7 | 11299.7 | 12140.7 | 11981.7 | 10867.7 | 11006.7 | 7598.8 |
| 52.5° | 7240.8  | 7189.8  | 7688.8  | 9264.8  | 10934.7 | 12646.7 | 13147.7 | 11589.7 | 11334.7 | 7625.8 |
| 55°   | 5491.9  | 5446.9  | 6072.8  | 7400.8  | 9757.7  | 12466.7 | 14000.6 | 12334.7 | 11569.7 | 7556.8 |
| 57.5° | 2945.9  | 2917.9  | 3708.9  | 4925.9  | 7627.8  | 11386.7 | 14154.6 | 13122.7 | 11767.7 | 7373.8 |
| 60°   | 1147.0  | 1142.0  | 1438.0  | 2389.9  | 4635.9  | 9263.8  | 13377.6 | 13595.6 | 11891.7 | 7148.8 |
| 62.5° | 694.0   | 709.0   | 757.0   | 1073.0  | 2047.9  | 5754.8  | 11586.7 | 13057.7 | 11974.7 | 6942.8 |
| 65°   | 574.0   | 575.0   | 581.0   | 737.0   | 981.0   | 2407.9  | 8722.8  | 11287.7 | 11769.7 | 6575.8 |
| 67.5° | 492.0   | 501.0   | 524.0   | 585.0   | 692.0   | 1056.0  | 5021.9  | 8743.8  | 10522.7 | 5721.8 |
| 70°   | 388.0   | 400.0   | 429.0   | 481.0   | 534.0   | 661.0   | 1856.0  | 5817.8  | 8038.8  | 4312.9 |
| 72.5° | 327.0   | 326.0   | 341.0   | 391.0   | 424.0   | 465.0   | 714.0   | 3259.9  | 4671.9  | 2058.9 |
| 75°   | 253.0   | 263.0   | 282.0   | 327.0   | 347.0   | 337.0   | 387.0   | 1191.0  | 1674.0  | 624.0  |
| 77.5° | 198.0   | 206.0   | 223.0   | 267.0   | 287.0   | 239.0   | 223.0   | 426.0   | 538.0   | 224.0  |
| 80°   | 89.0    | 96.0    | 152.0   | 197.0   | 234.0   | 165.0   | 121.0   | 218.0   | 239.0   | 102.0  |
| 82.5° | 16.0    | 27.0    | 89.0    | 104.0   | 120.0   | 107.0   | 63.0    | 113.0   | 117.0   | 41.0   |
| 85°   | 1.0     | 2.0     | 31.0    | 38.0    | 48.0    | 35.0    | 19.0    | 45.0    | 39.0    | 14.0   |
| 87.5° | 0.0     | 0.0     | 0.0     | 1.0     | 1.0     | 5.0     | 6.0     | 8.0     | 6.0     | 5.0    |
| 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):**

| 90°    |       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3907.9 | 0°    | 3907.9 | 3907.9 | 3907.9 | 3907.9 | 3907.9 | 3907.9 | 3907.9 | 3907.9 | 3907.9 | 3907.9 |
| 3916.9 | 2.5°  | 3844.9 | 3702.9 | 3564.9 | 3451.9 | 3385.9 | 3273.9 | 3199.9 | 3187.9 | 3156.9 | 3183.9 |
| 3926.9 | 5°    | 3770.9 | 3516.9 | 3259.9 | 3029.9 | 2840.9 | 2596.9 | 2414.9 | 2337.9 | 2270.9 | 2293.9 |
| 3952.9 | 7.5°  | 3735.9 | 3334.9 | 2934.9 | 2541.9 | 2137.9 | 1748.0 | 1458.0 | 1337.0 | 1245.0 | 1258.0 |
| 3981.9 | 10°   | 3688.9 | 3145.9 | 2518.9 | 1918.9 | 1378.0 | 993.0  | 793.0  | 719.0  | 678.0  | 679.0  |
| 4024.9 | 12.5° | 3652.9 | 2919.9 | 2035.9 | 1301.0 | 839.0  | 634.0  | 572.0  | 554.0  | 542.0  | 543.0  |
| 4089.9 | 15°   | 3634.9 | 2653.9 | 1559.0 | 867.0  | 600.0  | 537.0  | 522.0  | 514.0  | 506.0  | 505.0  |
| 4161.9 | 17.5° | 3604.9 | 2357.9 | 1141.0 | 633.0  | 525.0  | 503.0  | 490.0  | 481.0  | 471.0  | 469.0  |
| 4223.9 | 20°   | 3559.9 | 2021.9 | 834.0  | 535.0  | 492.0  | 475.0  | 457.0  | 445.0  | 433.0  | 431.0  |
| 4262.9 | 22.5° | 3476.9 | 1667.0 | 641.0  | 495.0  | 468.0  | 449.0  | 427.0  | 413.0  | 401.0  | 399.0  |
| 4243.9 | 25°   | 3322.9 | 1334.0 | 540.0  | 470.0  | 447.0  | 424.0  | 400.0  | 381.0  | 370.0  | 368.0  |
| 4202.9 | 27.5° | 3127.9 | 1048.0 | 490.0  | 447.0  | 420.0  | 399.0  | 372.0  | 354.0  | 344.0  | 342.0  |
| 4148.9 | 30°   | 2897.9 | 807.0  | 461.0  | 421.0  | 388.0  | 370.0  | 346.0  | 331.0  | 325.0  | 325.0  |
| 4110.9 | 32.5° | 2649.9 | 645.0  | 449.0  | 395.0  | 360.0  | 340.0  | 321.0  | 315.0  | 313.0  | 312.0  |
| 4131.9 | 35°   | 2416.9 | 560.0  | 443.0  | 374.0  | 335.0  | 316.0  | 308.0  | 309.0  | 313.0  | 313.0  |
| 4196.9 | 37.5° | 2209.9 | 533.0  | 440.0  | 359.0  | 313.0  | 296.0  | 301.0  | 310.0  | 306.0  | 306.0  |
| 4310.9 | 40°   | 2022.9 | 536.0  | 438.0  | 348.0  | 295.0  | 285.0  | 295.0  | 288.0  | 278.0  | 277.0  |
| 4449.9 | 42.5° | 1880.0 | 561.0  | 434.0  | 339.0  | 284.0  | 277.0  | 273.0  | 262.0  | 261.0  | 263.0  |
| 4593.9 | 45°   | 1776.0 | 583.0  | 433.0  | 335.0  | 272.0  | 259.0  | 254.0  | 243.0  | 263.0  | 268.0  |
| 4652.9 | 47.5° | 1653.0 | 583.0  | 433.0  | 321.0  | 252.0  | 247.0  | 239.0  | 227.0  | 247.0  | 252.0  |
| 4596.9 | 50°   | 1494.0 | 546.0  | 416.0  | 305.0  | 236.0  | 233.0  | 219.0  | 204.0  | 200.0  | 203.0  |
| 4465.9 | 52.5° | 1293.0 | 479.0  | 373.0  | 283.0  | 220.0  | 214.0  | 197.0  | 186.0  | 183.0  | 183.0  |
| 4230.9 | 55°   | 1064.0 | 401.0  | 315.0  | 251.0  | 203.0  | 192.0  | 180.0  | 175.0  | 172.0  | 170.0  |
| 3901.9 | 57.5° | 865.0  | 329.0  | 253.0  | 223.0  | 187.0  | 173.0  | 169.0  | 163.0  | 158.0  | 155.0  |
| 3626.9 | 60°   | 710.0  | 259.0  | 209.0  | 198.0  | 171.0  | 158.0  | 157.0  | 149.0  | 136.0  | 134.0  |
| 3399.9 | 62.5° | 548.0  | 190.0  | 176.0  | 172.0  | 155.0  | 144.0  | 142.0  | 126.0  | 106.0  | 102.0  |
| 3077.9 | 65°   | 387.0  | 148.0  | 142.0  | 151.0  | 138.0  | 128.0  | 123.0  | 99.0   | 78.0   | 75.0   |
| 2575.9 | 67.5° | 272.0  | 124.0  | 112.0  | 132.0  | 120.0  | 107.0  | 104.0  | 84.0   | 65.0   | 63.0   |
| 1947.9 | 70°   | 194.0  | 101.0  | 92.0   | 113.0  | 96.0   | 94.0   | 88.0   | 70.0   | 53.0   | 51.0   |
| 964.0  | 72.5° | 137.0  | 77.0   | 71.0   | 98.0   | 66.0   | 81.0   | 72.0   | 54.0   | 40.0   | 38.0   |
| 328.0  | 75°   | 101.0  | 55.0   | 50.0   | 57.0   | 48.0   | 61.0   | 51.0   | 36.0   | 25.0   | 24.0   |
| 148.0  | 77.5° | 74.0   | 35.0   | 30.0   | 28.0   | 28.0   | 38.0   | 28.0   | 15.0   | 11.0   | 10.0   |
| 75.0   | 80°   | 52.0   | 16.0   | 14.0   | 12.0   | 11.0   | 9.0    | 4.0    | 2.0    | 1.0    | 1.0    |
| 26.0   | 82.5° | 31.0   | 7.0    | 7.0    | 5.0    | 3.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 10.0   | 85°   | 7.0    | 3.0    | 3.0    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 4.0    | 87.5° | 1.0    | 1.0    | 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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