

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: P949038

Luminaire Tested: **GALN-SB3D-930-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949038  
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-SB3D-930-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

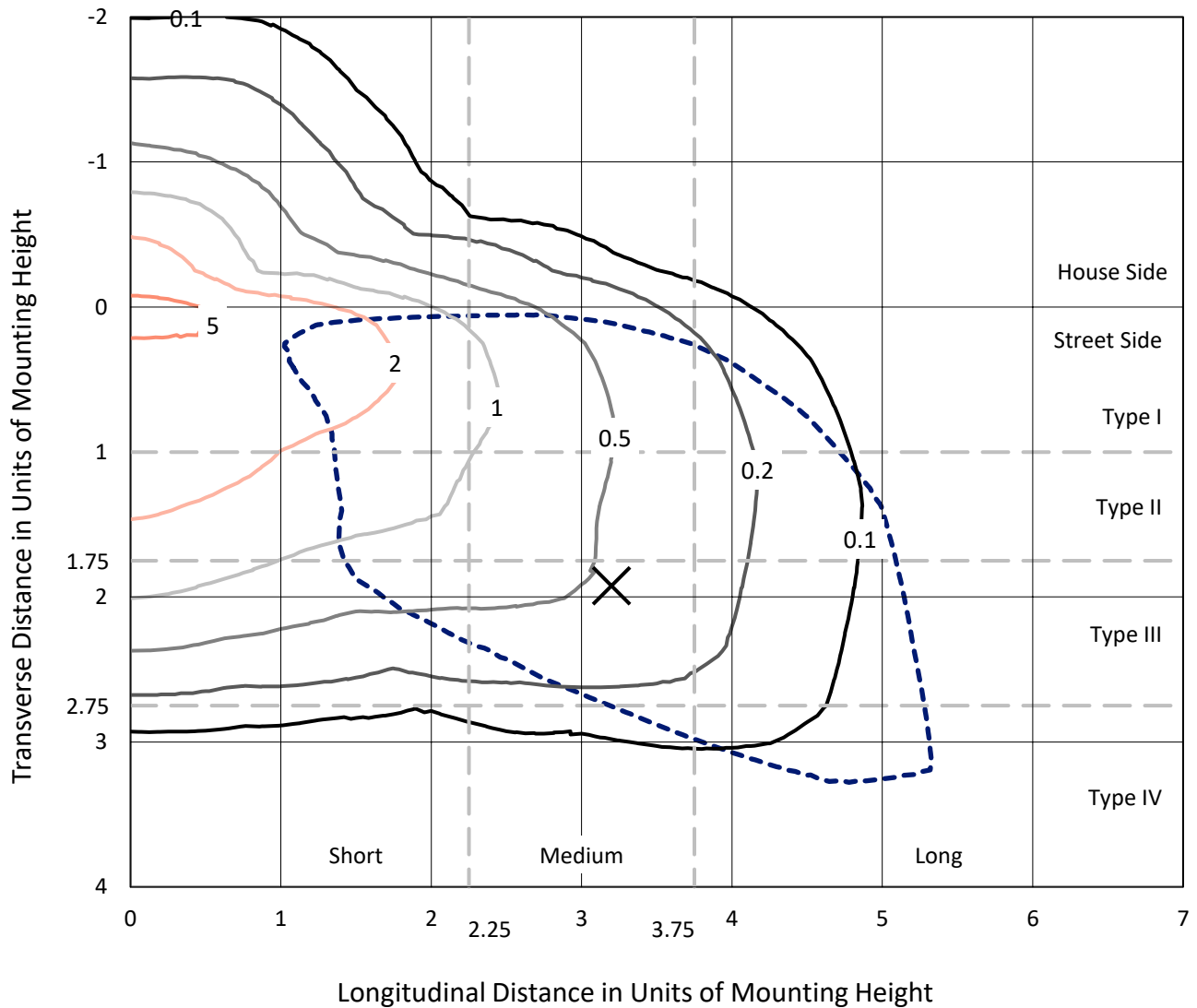
Lumens per Lamp: N/A  
Luminaire Lumens: 20758 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

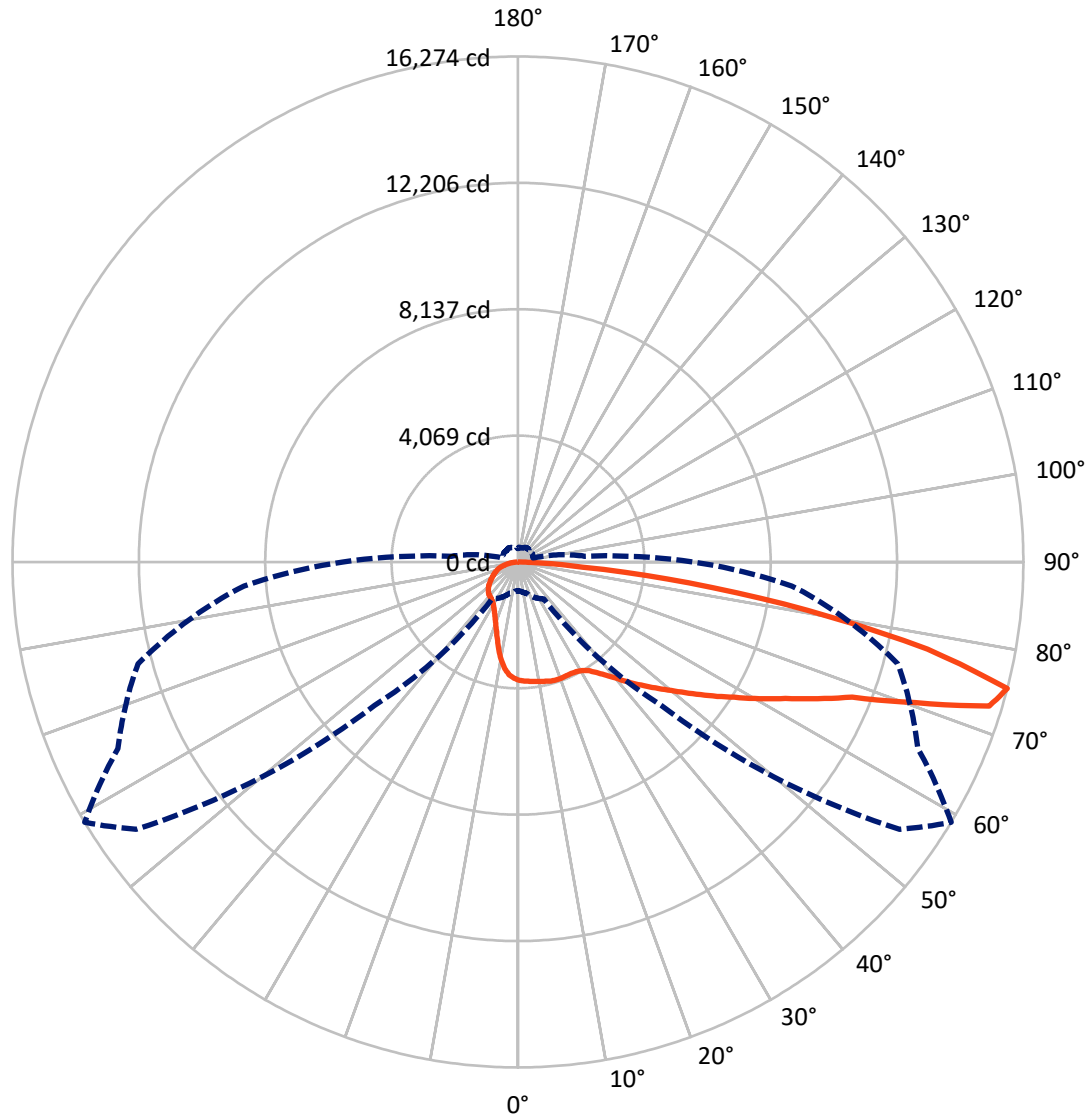
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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    | 3893.3   | 0.0    | 3893.3  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 16864.7  | 0.0    | 16864.7 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 20758.0  | 0.0    | 20758.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 341.6   | 1.6       |
| 10°-20°   | 873.2   | 4.2       |
| 20°-30°   | 1326.4  | 6.4       |
| 30°-40°   | 1971.6  | 9.5       |
| 40°-50°   | 2932.2  | 14.1      |
| 50°-60°   | 3980.1  | 19.2      |
| 60°-70°   | 4859.0  | 23.4      |
| 70°-80°   | 3813.3  | 18.4      |
| 80°-90°   | 660.6   | 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°    | 20758.0 | 100.0     |
| 0°-180°   | 20758.0 | 100.0     |



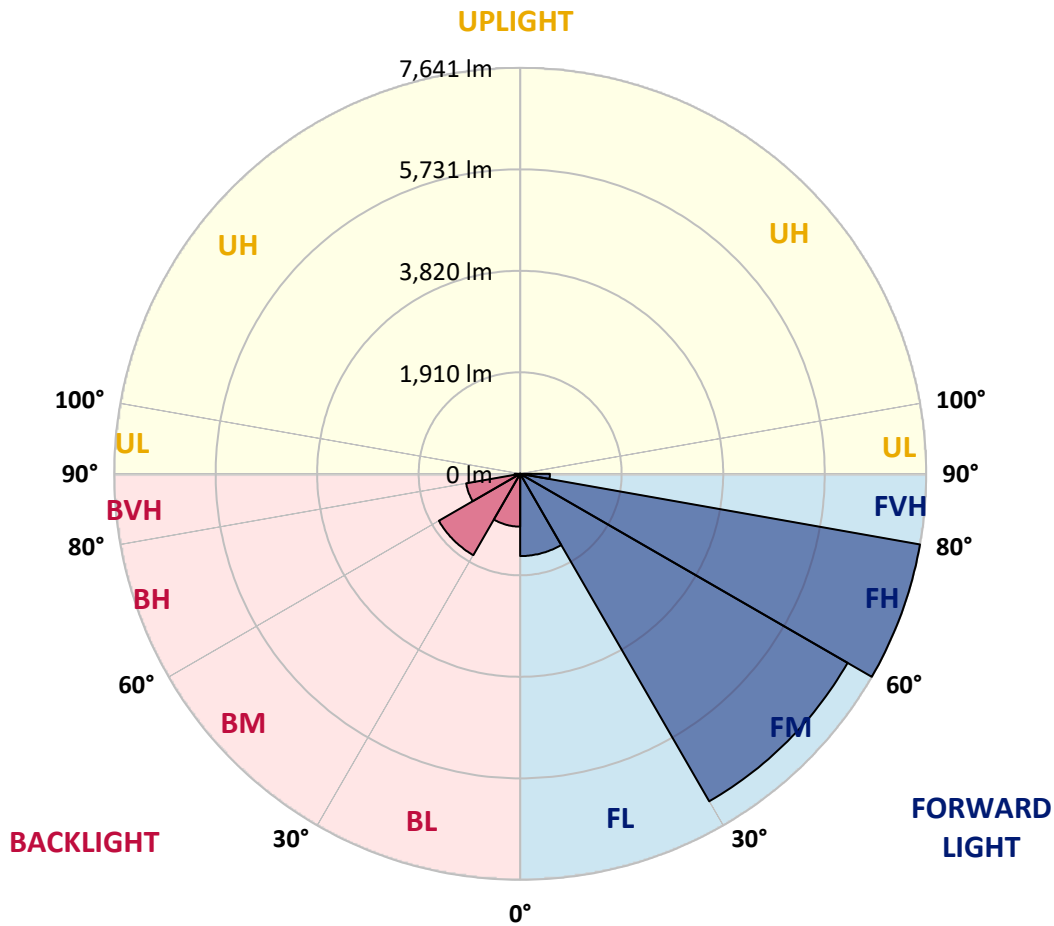
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1547.7 | 7.5       |                         |      |          |
| FM (30°-60°)   | 7116.7 | 34.3      |                         |      |          |
| FH (60°-80°)   | 7640.8 | 36.8      |                         |      | G4/12000 |
| FVH (80°-90°)  | 559.4  | 2.7       |                         |      | G4/750   |
| BL (0°-30°)    | 993.5  | 4.8       | B2/1000                 |      |          |
| BM (30°-60°)   | 1767.2 | 8.5       | B2/2500                 |      |          |
| BH (60°-80°)   | 1031.5 | 5.0       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 101.1  | 0.5       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

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

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 59°     | 65°     | 75°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 3810.1 | 3810.1 | 3810.1 | 3810.1 | 3810.1 | 3810.1 | 3810.1  | 3810.1  | 3810.1  | 3810.1  |
| 2.5°  | 3842.5 | 3829.1 | 3842.5 | 3836.9 | 3834.7 | 3830.2 | 3831.3  | 3839.1  | 3834.7  | 3840.2  |
| 5°    | 3816.8 | 3809.0 | 3822.4 | 3819.0 | 3833.5 | 3835.8 | 3850.3  | 3859.2  | 3864.8  | 3865.9  |
| 7.5°  | 3774.4 | 3766.5 | 3785.5 | 3801.2 | 3832.4 | 3841.4 | 3871.5  | 3886.0  | 3893.8  | 3907.2  |
| 10°   | 3619.1 | 3615.8 | 3662.7 | 3721.9 | 3795.6 | 3841.4 | 3887.1  | 3911.7  | 3924.0  | 3959.7  |
| 12.5° | 3344.4 | 3348.9 | 3410.3 | 3524.2 | 3671.6 | 3819.0 | 3905.0  | 3940.7  | 3959.7  | 4004.4  |
| 15°   | 3082.0 | 3080.9 | 3147.9 | 3269.6 | 3476.2 | 3720.8 | 3913.9  | 3975.4  | 4007.7  | 4073.6  |
| 17.5° | 2930.1 | 2925.7 | 2972.6 | 3065.3 | 3257.3 | 3570.0 | 3891.6  | 3994.3  | 4063.6  | 4146.2  |
| 20°   | 2902.2 | 2893.3 | 2917.9 | 2963.6 | 3099.9 | 3404.7 | 3833.5  | 3994.3  | 4108.2  | 4215.4  |
| 22.5° | 3003.8 | 2989.3 | 2979.3 | 2973.7 | 3034.0 | 3268.5 | 3767.7  | 3980.9  | 4174.1  | 4314.8  |
| 25°   | 3208.2 | 3185.9 | 3134.5 | 3084.2 | 3066.4 | 3207.1 | 3709.6  | 3977.6  | 4272.4  | 4448.8  |
| 27.5° | 3538.7 | 3510.8 | 3407.0 | 3286.4 | 3178.0 | 3238.3 | 3683.9  | 3997.7  | 4380.7  | 4590.6  |
| 30°   | 3948.6 | 3918.4 | 3787.8 | 3602.4 | 3408.1 | 3354.5 | 3716.3  | 4056.9  | 4519.2  | 4779.4  |
| 32.5° | 4315.9 | 4282.4 | 4170.8 | 3982.1 | 3719.6 | 3555.5 | 3819.0  | 4169.7  | 4736.9  | 5041.8  |
| 35°   | 4642.0 | 4602.9 | 4502.4 | 4328.2 | 4101.5 | 3838.0 | 4004.4  | 4369.5  | 5046.2  | 5468.3  |
| 37.5° | 4961.4 | 4915.6 | 4806.2 | 4621.9 | 4463.3 | 4214.3 | 4260.1  | 4626.4  | 5457.2  | 5986.5  |
| 40°   | 5318.7 | 5252.8 | 5119.9 | 4937.9 | 4783.8 | 4655.4 | 4596.2  | 4941.3  | 5874.8  | 6564.9  |
| 42.5° | 5664.9 | 5602.3 | 5443.8 | 5288.6 | 5095.4 | 5058.5 | 4985.9  | 5309.8  | 6331.5  | 7200.3  |
| 45°   | 6037.8 | 5963.0 | 5771.0 | 5574.4 | 5452.7 | 5326.5 | 5363.4  | 5678.3  | 6779.3  | 7848.0  |
| 47.5° | 6387.4 | 6303.6 | 6076.9 | 5858.1 | 5791.1 | 5552.1 | 5709.5  | 6083.6  | 7245.0  | 8504.6  |
| 50°   | 6576.1 | 6493.4 | 6304.7 | 6107.1 | 6054.6 | 5830.1 | 6084.7  | 6529.2  | 7733.0  | 9158.9  |
| 52.5° | 6733.5 | 6644.2 | 6397.4 | 6288.0 | 6272.3 | 6132.8 | 6547.0  | 7038.4  | 8220.9  | 9737.4  |
| 55°   | 6901.0 | 6801.6 | 6486.7 | 6388.5 | 6459.9 | 6472.2 | 7095.3  | 7615.7  | 8736.8  | 10301.3 |
| 57.5° | 7094.2 | 6968.0 | 6572.7 | 6473.3 | 6643.1 | 6869.8 | 7725.1  | 8214.2  | 9243.8  | 10823.9 |
| 60°   | 7276.2 | 7148.9 | 6738.0 | 6608.5 | 6840.7 | 7331.0 | 8447.6  | 8939.0  | 9817.8  | 11289.6 |
| 62.5° | 7312.0 | 7207.0 | 6869.8 | 6868.6 | 7108.7 | 7869.2 | 9303.0  | 9670.4  | 10319.2 | 11749.6 |
| 65°   | 6693.3 | 6627.4 | 6427.6 | 6858.6 | 7492.9 | 8644.2 | 10255.5 | 10606.2 | 10956.8 | 12151.6 |
| 67.5° | 5094.3 | 5103.2 | 5088.7 | 5920.6 | 7182.4 | 9757.5 | 11634.6 | 11607.8 | 11744.0 | 12602.8 |
| 70°   | 2329.4 | 2381.9 | 2723.6 | 4087.0 | 5754.2 | 9885.9 | 13914.8 | 13567.6 | 12732.3 | 13186.8 |
| 72.5° | 1258.5 | 1298.7 | 1438.3 | 1979.9 | 3459.4 | 8789.3 | 15618.9 | 15865.7 | 14046.6 | 13579.8 |
| 75°   | 923.5  | 945.8  | 1043.0 | 1258.5 | 1452.8 | 6532.5 | 15008.1 | 16274.4 | 14210.8 | 12663.1 |
| 77.5° | 691.2  | 701.3  | 780.6  | 997.2  | 743.7  | 3443.8 | 11991.9 | 13478.2 | 12165.0 | 10404.0 |
| 80°   | 501.4  | 512.6  | 571.7  | 748.2  | 521.5  | 1259.6 | 8234.3  | 9460.4  | 8331.5  | 6631.9  |
| 82.5° | 346.2  | 350.6  | 376.3  | 509.2  | 364.0  | 489.1  | 4672.2  | 5547.6  | 4650.9  | 2327.1  |
| 85°   | 208.8  | 214.4  | 225.6  | 297.0  | 206.6  | 232.3  | 2016.7  | 2085.9  | 1390.3  | 556.1   |
| 87.5° | 86.0   | 91.6   | 100.5  | 125.1  | 81.5   | 64.8   | 332.8   | 417.6   | 260.2   | 163.0   |
| 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°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3810.1  | 0°    | 3810.1 | 3810.1 | 3810.1 | 3810.1 | 3810.1 | 3810.1 | 3810.1 | 3810.1 | 3810.1 | 3810.1 |
| 3821.3  | 2.5°  | 3815.7 | 3807.9 | 3786.6 | 3757.6 | 3730.8 | 3697.3 | 3682.8 | 3670.5 | 3659.3 | 3638.1 |
| 3851.4  | 5°    | 3839.1 | 3817.9 | 3761.0 | 3687.3 | 3603.5 | 3511.9 | 3422.6 | 3361.2 | 3308.7 | 3269.6 |
| 3886.0  | 7.5°  | 3874.9 | 3834.7 | 3730.8 | 3580.1 | 3388.0 | 3191.4 | 3013.9 | 2887.7 | 2792.8 | 2758.2 |
| 3935.2  | 10°   | 3911.7 | 3863.7 | 3682.8 | 3417.0 | 3085.4 | 2782.7 | 2547.1 | 2417.6 | 2341.7 | 2317.1 |
| 3993.2  | 12.5° | 3955.3 | 3884.9 | 3608.0 | 3190.3 | 2747.0 | 2415.4 | 2209.9 | 2134.0 | 2094.9 | 2081.5 |
| 4064.7  | 15°   | 4018.9 | 3902.8 | 3495.2 | 2906.7 | 2424.3 | 2147.4 | 2014.5 | 1962.0 | 1941.9 | 1940.8 |
| 4138.4  | 17.5° | 4066.9 | 3906.1 | 3319.9 | 2603.0 | 2176.4 | 1985.4 | 1876.0 | 1855.9 | 1869.3 | 1889.4 |
| 4211.0  | 20°   | 4120.5 | 3876.0 | 3089.8 | 2326.0 | 2002.2 | 1843.6 | 1797.8 | 1811.2 | 1843.6 | 1872.7 |
| 4307.0  | 22.5° | 4158.5 | 3821.3 | 2811.8 | 2110.5 | 1851.4 | 1762.1 | 1759.9 | 1787.8 | 1805.7 | 1820.2 |
| 4419.8  | 25°   | 4192.0 | 3728.6 | 2517.0 | 1929.6 | 1727.5 | 1713.0 | 1737.5 | 1728.6 | 1716.3 | 1728.6 |
| 4532.6  | 27.5° | 4216.6 | 3582.3 | 2253.4 | 1771.0 | 1640.4 | 1679.5 | 1665.0 | 1644.9 | 1643.7 | 1650.4 |
| 4665.5  | 30°   | 4208.7 | 3386.9 | 2036.8 | 1620.3 | 1579.0 | 1616.9 | 1582.3 | 1579.0 | 1575.6 | 1579.0 |
| 4865.3  | 32.5° | 4208.7 | 3164.6 | 1870.4 | 1516.4 | 1539.9 | 1525.4 | 1522.0 | 1514.2 | 1500.8 | 1499.7 |
| 5136.7  | 35°   | 4232.2 | 2942.4 | 1727.5 | 1460.6 | 1507.5 | 1472.9 | 1475.1 | 1456.1 | 1428.2 | 1414.8 |
| 5496.3  | 37.5° | 4280.2 | 2763.8 | 1585.7 | 1433.8 | 1450.6 | 1449.4 | 1440.5 | 1408.1 | 1359.0 | 1316.6 |
| 5945.2  | 40°   | 4396.3 | 2711.3 | 1488.5 | 1421.5 | 1423.8 | 1437.2 | 1413.7 | 1351.2 | 1239.5 | 1170.3 |
| 6400.8  | 42.5° | 4578.4 | 2799.5 | 1467.3 | 1391.4 | 1405.9 | 1419.3 | 1373.5 | 1228.3 | 1149.1 | 1107.7 |
| 6878.7  | 45°   | 4809.5 | 2953.6 | 1513.1 | 1347.8 | 1363.5 | 1386.9 | 1250.7 | 1181.4 | 1145.7 | 1146.8 |
| 7352.2  | 47.5° | 5102.1 | 3115.5 | 1598.0 | 1309.9 | 1302.0 | 1315.4 | 1169.2 | 1126.7 | 1077.6 | 1089.9 |
| 7806.7  | 50°   | 5440.4 | 3279.7 | 1678.4 | 1258.5 | 1233.9 | 1190.4 | 1116.7 | 1076.5 | 1013.9 | 984.9  |
| 8245.5  | 52.5° | 5806.7 | 3438.2 | 1710.7 | 1196.0 | 1160.2 | 1110.0 | 1080.9 | 1031.8 | 955.9  | 907.9  |
| 8659.8  | 55°   | 6154.0 | 3582.3 | 1675.0 | 1121.1 | 1086.5 | 1047.4 | 1043.0 | 1012.8 | 931.3  | 864.3  |
| 9028.3  | 57.5° | 6482.3 | 3702.9 | 1585.7 | 1045.2 | 1011.7 | 988.3  | 1018.4 | 1003.9 | 901.2  | 815.2  |
| 9376.7  | 60°   | 6760.3 | 3785.5 | 1456.1 | 968.2  | 944.7  | 932.4  | 978.2  | 973.7  | 858.7  | 762.7  |
| 9689.4  | 62.5° | 6981.4 | 3817.9 | 1313.2 | 894.5  | 888.9  | 866.5  | 922.4  | 922.4  | 805.1  | 711.3  |
| 9964.1  | 65°   | 7154.5 | 3786.6 | 1168.0 | 821.9  | 833.0  | 799.5  | 854.3  | 847.6  | 748.2  | 665.5  |
| 10280.1 | 67.5° | 7307.5 | 3683.9 | 1007.2 | 750.4  | 776.1  | 733.7  | 782.8  | 767.2  | 685.6  | 619.8  |
| 10553.7 | 70°   | 7375.6 | 3444.9 | 824.1  | 678.9  | 710.2  | 668.9  | 711.3  | 682.3  | 615.3  | 570.6  |
| 10253.3 | 72.5° | 6828.4 | 2863.1 | 648.8  | 604.1  | 630.9  | 597.4  | 634.3  | 600.8  | 539.4  | 519.3  |
| 8854.1  | 75°   | 5649.2 | 2148.5 | 499.2  | 522.6  | 542.7  | 517.0  | 541.6  | 517.0  | 461.2  | 475.7  |
| 6540.3  | 77.5° | 4102.7 | 1450.6 | 381.9  | 436.6  | 445.6  | 432.2  | 453.4  | 425.5  | 375.2  | 371.9  |
| 3259.6  | 80°   | 2040.2 | 849.8  | 299.3  | 345.1  | 341.7  | 332.8  | 357.3  | 343.9  | 301.5  | 319.4  |
| 879.9   | 82.5° | 590.7  | 364.0  | 217.8  | 242.3  | 235.6  | 237.9  | 255.7  | 262.4  | 393.1  | 389.7  |
| 273.6   | 85°   | 185.4  | 142.9  | 130.7  | 135.1  | 128.4  | 131.8  | 150.8  | 299.3  | 276.9  | 161.9  |
| 84.9    | 87.5° | 48.0   | 49.1   | 32.4   | 34.6   | 35.7   | 42.4   | 48.0   | 182.0  | 87.1   | 57.0   |
| 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> |
|-------------|
| 3810.1      |
| 3628.1      |
| 3237.2      |
| 2697.9      |
| 2279.1      |
| 2084.8      |
| 1945.2      |
| 1897.2      |
| 1882.7      |
| 1828.0      |
| 1736.4      |
| 1661.6      |
| 1591.3      |
| 1514.2      |
| 1428.2      |
| 1331.1      |
| 1179.2      |
| 1107.7      |
| 1152.4      |
| 1121.1      |
| 992.7       |
| 906.7       |
| 864.3       |
| 810.7       |
| 759.3       |
| 708.0       |
| 661.1       |
| 615.3       |
| 561.7       |
| 502.5       |
| 434.4       |
| 355.1       |
| 316.0       |
| 398.7       |
| 175.3       |
| 60.3        |
| 0.0         |

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