

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: P948595

Luminaire Tested: **GALN-SB3C-835-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948595  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3C-835-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

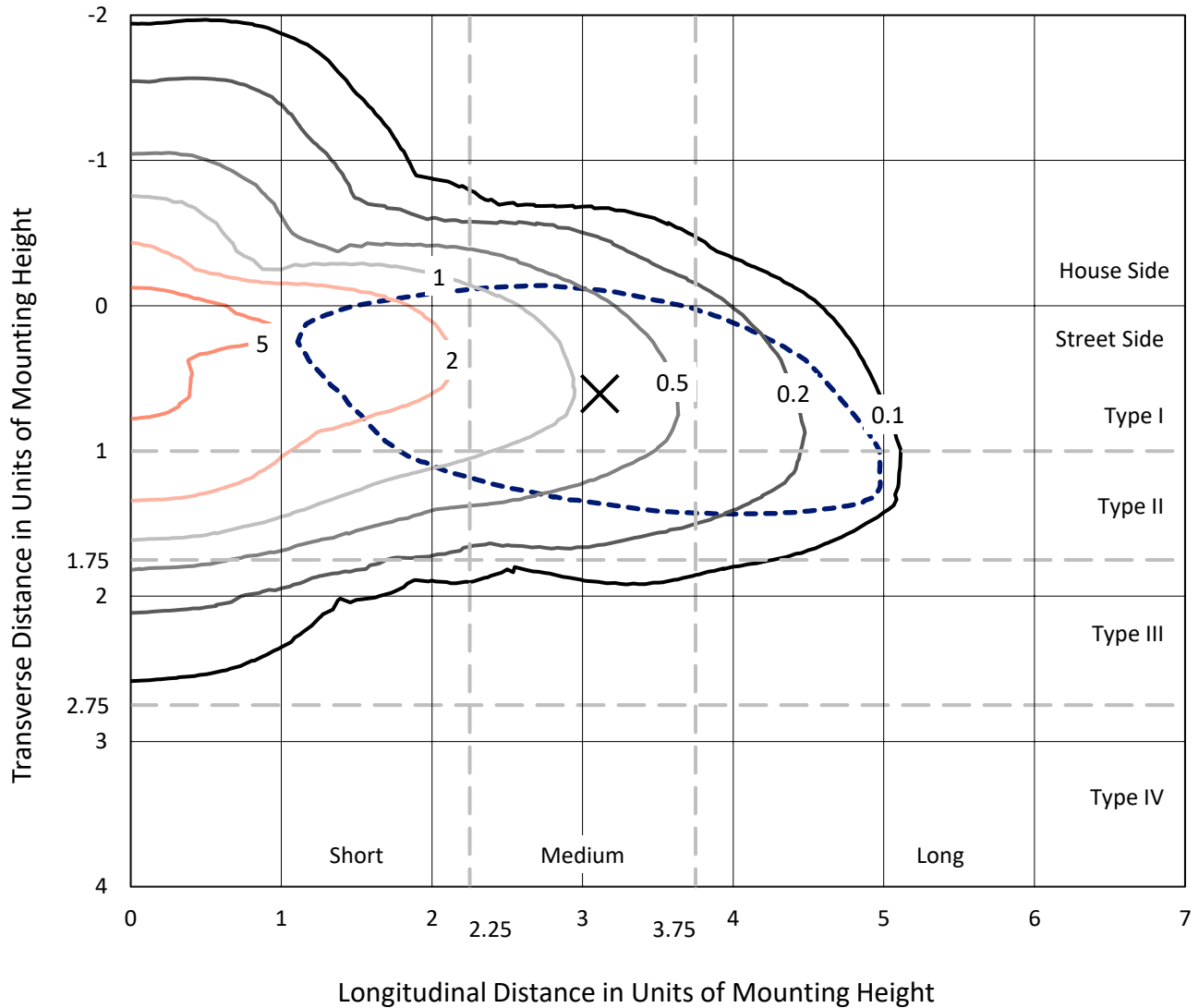
Lumens per Lamp: N/A  
Luminaire Lumens: 20716 lumens  
Efficiency: N/A  
Efficacy: 138.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

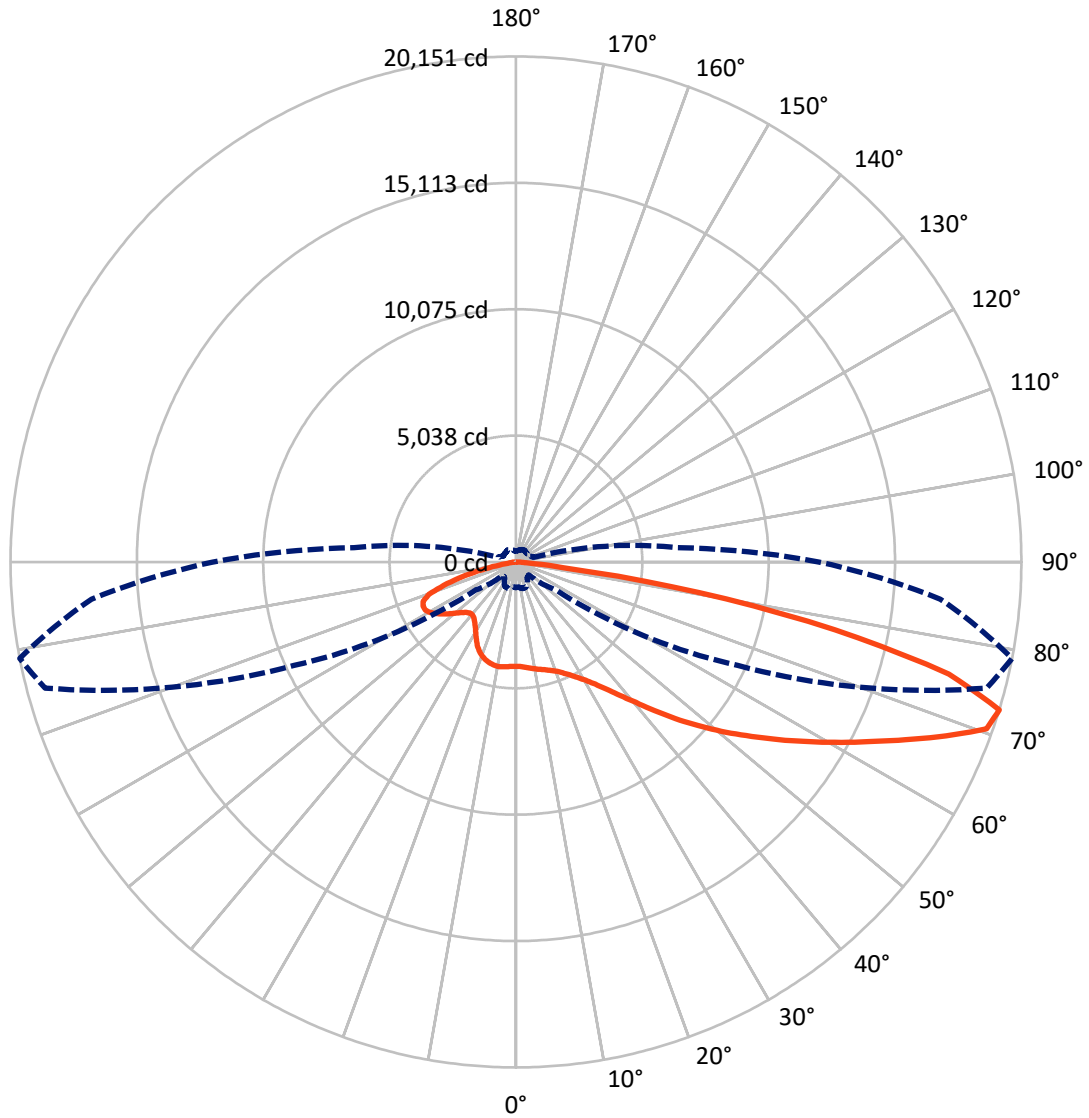
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4558.7   | 0.0    | 4558.7  |
|                    | % Fixture | 22.0     | 0.0    | 22.0    |
| <b>Street Side</b> | Lumens    | 16157.3  | 0.0    | 16157.3 |
|                    | % Fixture | 78.0     | 0.0    | 78.0    |
| <b>Total</b>       | Lumens    | 20716.0  | 0.0    | 20716.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 377.5   | 1.8       |
| 10°-20°   | 986.9   | 4.8       |
| 20°-30°   | 1592.5  | 7.7       |
| 30°-40°   | 2390.1  | 11.5      |
| 40°-50°   | 3390.4  | 16.4      |
| 50°-60°   | 4281.7  | 20.7      |
| 60°-70°   | 4348.6  | 21.0      |
| 70°-80°   | 2963.8  | 14.3      |
| 80°-90°   | 384.5   | 1.9       |
| 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°    | 20716.0 | 100.0     |
| 0°-180°   | 20716.0 | 100.0     |



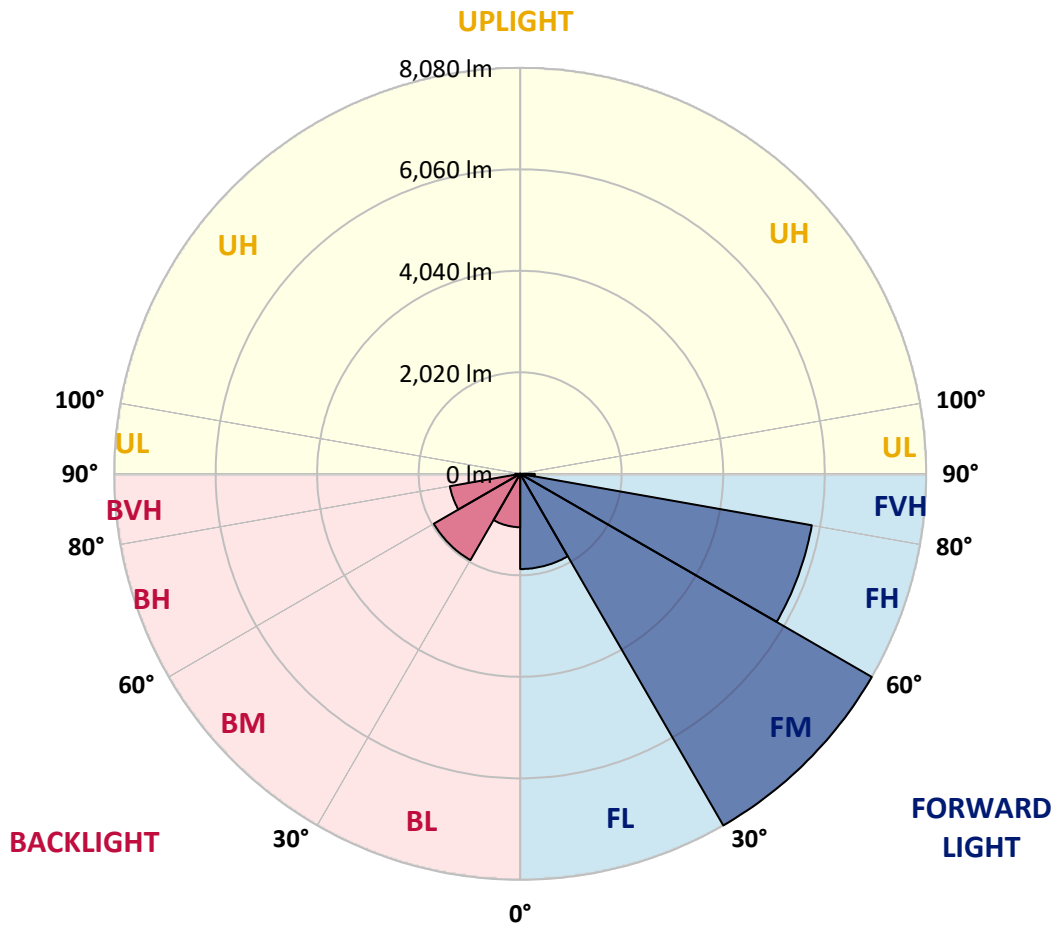
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1895.0 | 9.1       |                         |      |         |
| FM (30°-60°)   | 8079.7 | 39.0      |                         |      |         |
| FH (60°-80°)   | 5893.0 | 28.4      |                         |      | G3/7500 |
| FVH (80°-90°)  | 289.7  | 1.4       |                         |      | G3/500  |
| BL (0°-30°)    | 1061.8 | 5.1       | B3/2500                 |      |         |
| BM (30°-60°)   | 1982.5 | 9.6       | B2/2500                 |      |         |
| BH (60°-80°)   | 1419.4 | 6.9       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 94.9   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 79°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 4158.5 | 4158.5 | 4158.5 | 4158.5 | 4158.5 | 4158.5 | 4158.5 | 4158.5  | 4158.5  | 4158.5  |
| 2.5°  | 4160.7 | 4141.0 | 4153.1 | 4148.7 | 4154.2 | 4160.7 | 4162.9 | 4166.2  | 4177.2  | 4176.1  |
| 5°    | 4152.0 | 4132.2 | 4148.7 | 4143.2 | 4157.4 | 4172.8 | 4185.9 | 4198.0  | 4215.5  | 4223.2  |
| 7.5°  | 4133.3 | 4120.2 | 4136.6 | 4153.1 | 4179.4 | 4202.4 | 4221.0 | 4248.4  | 4273.6  | 4278.0  |
| 10°   | 4024.9 | 4015.0 | 4053.3 | 4096.1 | 4168.4 | 4230.9 | 4271.4 | 4303.2  | 4330.6  | 4335.0  |
| 12.5° | 3912.0 | 3899.9 | 3942.7 | 4000.7 | 4118.0 | 4230.9 | 4316.3 | 4358.0  | 4382.1  | 4396.3  |
| 15°   | 3893.4 | 3883.5 | 3907.6 | 3958.0 | 4055.5 | 4201.3 | 4347.0 | 4423.7  | 4444.5  | 4461.0  |
| 17.5° | 3983.2 | 3964.6 | 3974.4 | 3992.0 | 4049.0 | 4173.9 | 4371.1 | 4498.2  | 4530.0  | 4547.5  |
| 20°   | 4191.4 | 4165.1 | 4149.8 | 4114.7 | 4104.8 | 4178.3 | 4368.9 | 4588.1  | 4629.7  | 4651.6  |
| 22.5° | 4468.6 | 4451.1 | 4418.2 | 4329.5 | 4233.1 | 4232.0 | 4410.6 | 4703.1  | 4781.0  | 4801.8  |
| 25°   | 4804.0 | 4777.7 | 4736.0 | 4615.5 | 4430.3 | 4338.3 | 4480.7 | 4850.0  | 4980.4  | 4985.9  |
| 27.5° | 5189.7 | 5150.2 | 5093.3 | 4934.4 | 4684.5 | 4504.8 | 4588.1 | 5018.7  | 5209.4  | 5207.2  |
| 30°   | 5596.2 | 5556.8 | 5496.5 | 5303.6 | 4989.2 | 4729.4 | 4737.1 | 5200.6  | 5481.2  | 5469.1  |
| 32.5° | 5893.2 | 5863.6 | 5851.5 | 5702.5 | 5339.8 | 4994.6 | 4908.1 | 5402.3  | 5816.5  | 5805.5  |
| 35°   | 6121.1 | 6082.8 | 6097.0 | 6021.4 | 5722.2 | 5291.6 | 5117.4 | 5642.2  | 6224.1  | 6223.0  |
| 37.5° | 6346.8 | 6312.9 | 6324.9 | 6274.5 | 6076.2 | 5668.5 | 5372.7 | 5935.9  | 6729.3  | 6753.4  |
| 40°   | 6552.9 | 6516.7 | 6564.9 | 6517.8 | 6351.2 | 6069.6 | 5663.1 | 6267.9  | 7314.4  | 7360.5  |
| 42.5° | 6676.7 | 6648.2 | 6728.2 | 6729.3 | 6590.1 | 6408.2 | 5981.9 | 6633.9  | 7991.6  | 8094.6  |
| 45°   | 6719.4 | 6709.5 | 6830.1 | 6855.3 | 6801.6 | 6604.4 | 6269.0 | 7032.8  | 8721.4  | 8905.5  |
| 47.5° | 6673.4 | 6654.8 | 6821.3 | 6914.5 | 6957.2 | 6696.4 | 6506.8 | 7464.6  | 9466.6  | 9736.1  |
| 50°   | 6441.1 | 6404.9 | 6652.6 | 6848.7 | 7001.0 | 6756.7 | 6746.8 | 7963.1  | 10313.6 | 10608.4 |
| 52.5° | 6023.6 | 5996.2 | 6277.8 | 6618.6 | 6904.6 | 6786.3 | 7016.4 | 8507.7  | 11117.9 | 11499.3 |
| 55°   | 5489.9 | 5453.8 | 5763.9 | 6208.8 | 6664.6 | 6776.4 | 7285.9 | 9117.0  | 12066.9 | 12453.7 |
| 57.5° | 4644.0 | 4571.7 | 4963.9 | 5489.9 | 6273.4 | 6764.3 | 7566.5 | 9723.0  | 13031.2 | 13494.7 |
| 60°   | 3410.1 | 3302.7 | 3783.8 | 4407.3 | 5508.6 | 6647.1 | 7913.8 | 10402.4 | 14188.3 | 14605.8 |
| 62.5° | 1985.6 | 1923.1 | 2237.6 | 2819.5 | 4152.0 | 5956.7 | 8108.9 | 11192.4 | 15325.8 | 15764.1 |
| 65°   | 1541.8 | 1524.3 | 1551.6 | 1596.6 | 2311.0 | 4459.9 | 7507.3 | 11962.8 | 16772.2 | 17079.1 |
| 67.5° | 1410.3 | 1397.1 | 1409.2 | 1324.8 | 1172.5 | 2484.2 | 5939.2 | 12157.8 | 18321.7 | 18508.0 |
| 70°   | 1253.6 | 1238.2 | 1277.7 | 1205.4 | 922.7  | 1129.8 | 3837.5 | 11450.0 | 19554.5 | 19904.0 |
| 72.5° | 1021.3 | 1003.7 | 1095.8 | 1062.9 | 776.9  | 725.4  | 1927.5 | 9767.9  | 19425.1 | 20150.6 |
| 75°   | 784.6  | 774.7  | 884.3  | 911.7  | 633.4  | 570.9  | 924.9  | 7260.7  | 17094.4 | 17825.3 |
| 77.5° | 609.3  | 601.6  | 657.5  | 757.2  | 510.6  | 442.7  | 568.7  | 4605.6  | 12882.2 | 13010.4 |
| 80°   | 456.9  | 435.0  | 486.5  | 586.3  | 397.8  | 323.3  | 385.7  | 2685.8  | 8142.8  | 7381.3  |
| 82.5° | 286.0  | 275.0  | 317.8  | 391.2  | 280.5  | 222.4  | 250.9  | 1483.7  | 3263.3  | 1922.0  |
| 85°   | 163.3  | 158.9  | 173.1  | 223.5  | 152.3  | 128.2  | 143.5  | 655.3   | 596.1   | 409.8   |
| 87.5° | 65.7   | 63.6   | 78.9   | 99.7   | 55.9   | 47.1   | 50.4   | 157.8   | 131.5   | 121.6   |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4158.5  | 0°    | 4158.5  | 4158.5 | 4158.5 | 4158.5 | 4158.5 | 4158.5 | 4158.5 | 4158.5 | 4158.5 | 4158.5 |
| 4175.0  | 2.5°  | 4170.6  | 4170.6 | 4155.3 | 4131.1 | 4103.8 | 4086.2 | 4057.7 | 4050.1 | 4020.5 | 4011.7 |
| 4212.2  | 5°    | 4221.0  | 4212.2 | 4165.1 | 4097.2 | 4004.0 | 3918.6 | 3824.3 | 3765.1 | 3681.9 | 3652.3 |
| 4285.7  | 7.5°  | 4284.6  | 4260.4 | 4179.4 | 4030.3 | 3835.3 | 3643.5 | 3444.1 | 3292.9 | 3148.2 | 3096.7 |
| 4345.9  | 10°   | 4342.6  | 4308.7 | 4170.6 | 3909.8 | 3572.3 | 3240.3 | 2922.5 | 2700.0 | 2531.3 | 2462.3 |
| 4412.8  | 12.5° | 4400.7  | 4338.3 | 4112.5 | 3709.3 | 3198.6 | 2748.3 | 2409.7 | 2236.5 | 2132.4 | 2049.1 |
| 4467.6  | 15°   | 4455.5  | 4367.8 | 4022.7 | 3440.8 | 2788.8 | 2331.9 | 2082.0 | 1943.9 | 1860.7 | 1805.9 |
| 4547.5  | 17.5° | 4519.1  | 4393.0 | 3887.9 | 3100.0 | 2398.7 | 2043.7 | 1839.8 | 1756.6 | 1740.1 | 1733.5 |
| 4657.1  | 20°   | 4607.8  | 4416.1 | 3710.4 | 2718.7 | 2111.6 | 1813.5 | 1708.3 | 1700.7 | 1699.6 | 1696.3 |
| 4788.6  | 22.5° | 4703.1  | 4443.4 | 3475.9 | 2372.4 | 1867.2 | 1670.0 | 1651.4 | 1636.0 | 1626.2 | 1625.1 |
| 4947.5  | 25°   | 4816.0  | 4452.2 | 3182.2 | 2088.6 | 1659.0 | 1602.1 | 1580.1 | 1557.1 | 1550.5 | 1550.5 |
| 5128.3  | 27.5° | 4925.6  | 4422.6 | 2840.3 | 1842.0 | 1541.8 | 1539.6 | 1511.1 | 1503.4 | 1502.3 | 1505.6 |
| 5334.3  | 30°   | 5035.2  | 4366.7 | 2500.6 | 1614.1 | 1473.8 | 1473.8 | 1464.0 | 1469.5 | 1473.8 | 1484.8 |
| 5617.0  | 32.5° | 5183.1  | 4307.6 | 2216.8 | 1445.4 | 1414.7 | 1403.7 | 1413.6 | 1424.5 | 1428.9 | 1443.2 |
| 5988.5  | 35°   | 5400.1  | 4265.9 | 1991.1 | 1353.3 | 1353.3 | 1339.1 | 1344.5 | 1342.3 | 1332.5 | 1325.9 |
| 6437.8  | 37.5° | 5687.2  | 4263.7 | 1804.8 | 1310.6 | 1301.8 | 1299.6 | 1300.7 | 1286.5 | 1248.1 | 1202.1 |
| 6981.3  | 40°   | 6032.3  | 4322.9 | 1661.2 | 1281.0 | 1274.4 | 1287.6 | 1281.0 | 1242.6 | 1137.4 | 1057.4 |
| 7649.7  | 42.5° | 6495.9  | 4491.7 | 1569.2 | 1244.8 | 1264.5 | 1281.0 | 1254.7 | 1122.1 | 1050.9 | 997.2  |
| 8411.3  | 45°   | 7041.6  | 4765.6 | 1522.1 | 1206.5 | 1245.9 | 1265.6 | 1138.5 | 1080.5 | 1023.5 | 958.8  |
| 9241.9  | 47.5° | 7659.6  | 5110.8 | 1511.1 | 1170.3 | 1204.3 | 1216.3 | 1089.2 | 1062.9 | 998.3  | 928.1  |
| 10076.9 | 50°   | 8332.4  | 5519.5 | 1540.7 | 1127.6 | 1144.0 | 1102.4 | 1072.8 | 1048.7 | 981.8  | 912.8  |
| 10932.7 | 52.5° | 9028.3  | 5969.9 | 1599.9 | 1069.5 | 1083.7 | 1037.7 | 1066.2 | 1045.4 | 972.0  | 878.8  |
| 11817.0 | 55°   | 9712.0  | 6423.5 | 1656.8 | 1001.6 | 1022.4 | 979.6  | 1047.6 | 1032.2 | 927.0  | 821.8  |
| 12760.5 | 57.5° | 10406.8 | 6875.0 | 1712.7 | 941.3  | 963.2  | 923.8  | 1018.0 | 997.2  | 876.6  | 769.2  |
| 13790.6 | 60°   | 11128.9 | 7313.3 | 1739.0 | 883.2  | 898.6  | 872.3  | 973.1  | 936.9  | 819.7  | 715.6  |
| 14803.1 | 62.5° | 11805.0 | 7678.2 | 1696.3 | 825.1  | 835.0  | 824.0  | 913.9  | 865.7  | 762.7  | 655.3  |
| 15858.3 | 65°   | 12483.3 | 7895.2 | 1564.8 | 768.2  | 770.3  | 764.9  | 830.6  | 789.0  | 695.8  | 602.7  |
| 16782.1 | 67.5° | 13098.0 | 8016.8 | 1355.5 | 706.8  | 701.3  | 699.1  | 752.8  | 705.7  | 631.2  | 550.1  |
| 17484.5 | 70°   | 13228.4 | 7707.8 | 1035.5 | 634.5  | 634.5  | 629.0  | 667.3  | 619.1  | 560.0  | 494.2  |
| 16981.5 | 72.5° | 12082.2 | 6483.8 | 735.3  | 552.3  | 561.0  | 550.1  | 581.9  | 541.3  | 487.6  | 443.8  |
| 14635.4 | 75°   | 9742.7  | 4754.7 | 534.7  | 467.9  | 483.2  | 464.6  | 494.2  | 465.7  | 419.7  | 418.6  |
| 10085.7 | 77.5° | 6694.2  | 2940.0 | 387.9  | 385.7  | 396.7  | 372.6  | 406.5  | 391.2  | 349.6  | 330.9  |
| 4389.8  | 80°   | 2856.7  | 1172.5 | 282.7  | 298.1  | 298.1  | 276.1  | 315.6  | 320.0  | 283.8  | 275.0  |
| 847.0   | 82.5° | 568.7   | 333.1  | 198.3  | 204.9  | 192.9  | 186.3  | 223.5  | 247.6  | 341.9  | 380.2  |
| 255.3   | 85°   | 170.9   | 122.7  | 119.4  | 111.8  | 98.6   | 99.7   | 131.5  | 248.7  | 306.8  | 175.3  |
| 84.4    | 87.5° | 47.1    | 30.7   | 31.8   | 25.2   | 20.8   | 27.4   | 44.9   | 188.5  | 103.0  | 43.8   |
| 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> |
|-------------|
| 4158.5      |
| 4025.9      |
| 3674.2      |
| 3103.3      |
| 2477.6      |
| 2076.5      |
| 1815.7      |
| 1737.9      |
| 1707.2      |
| 1637.1      |
| 1557.1      |
| 1514.4      |
| 1492.5      |
| 1455.2      |
| 1341.3      |
| 1203.2      |
| 1055.3      |
| 995.0       |
| 954.4       |
| 922.7       |
| 905.1       |
| 872.3       |
| 816.4       |
| 767.1       |
| 712.3       |
| 654.2       |
| 596.1       |
| 543.5       |
| 492.0       |
| 430.6       |
| 377.0       |
| 310.1       |
| 275.0       |
| 381.3       |
| 151.2       |
| 37.3        |
| 0.0         |

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