

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: STREETWORKS

Report Number: P531807

Luminaire Tested: **GLAN-SA7A-760-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531807  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7A-760-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19372 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

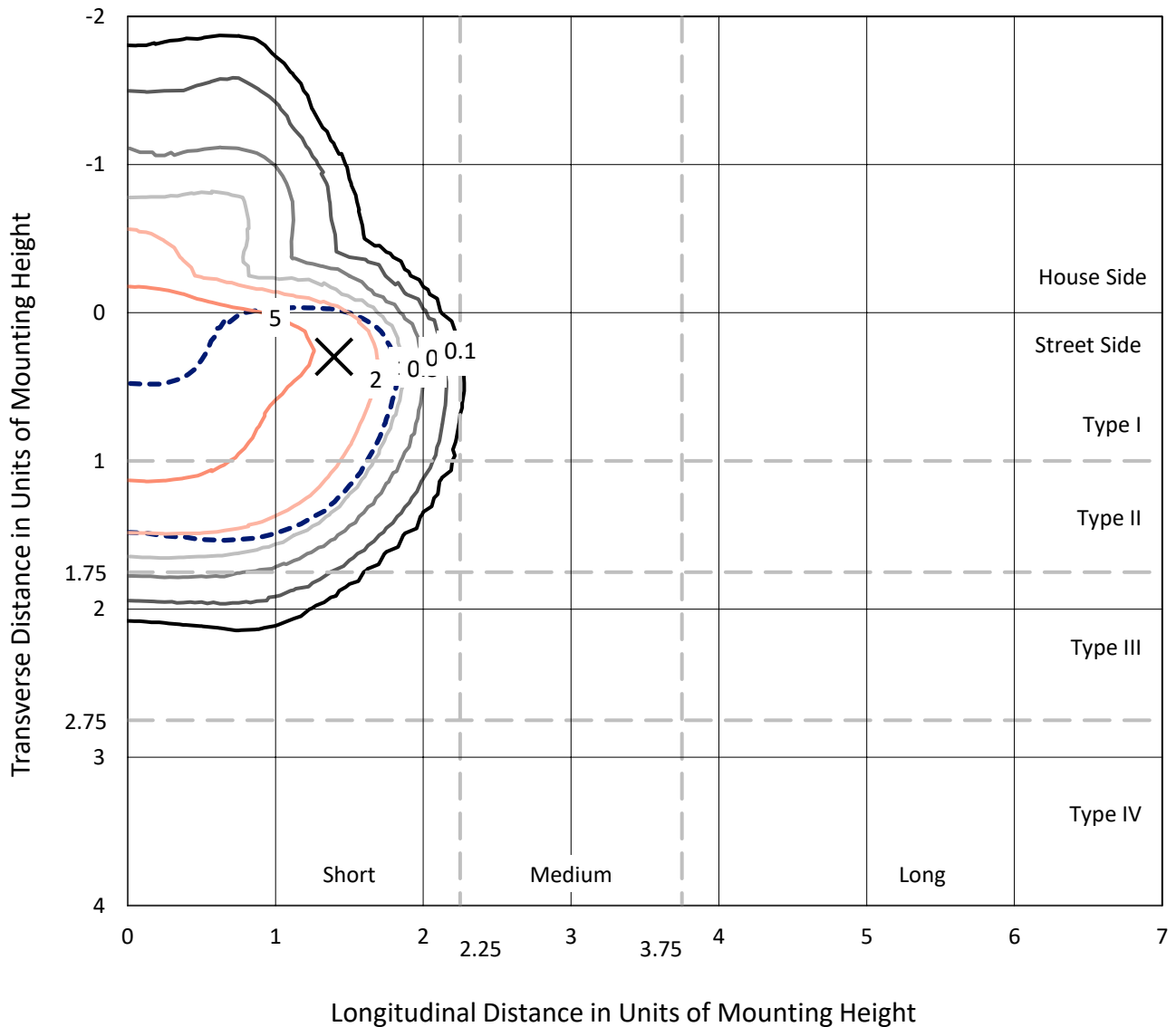
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

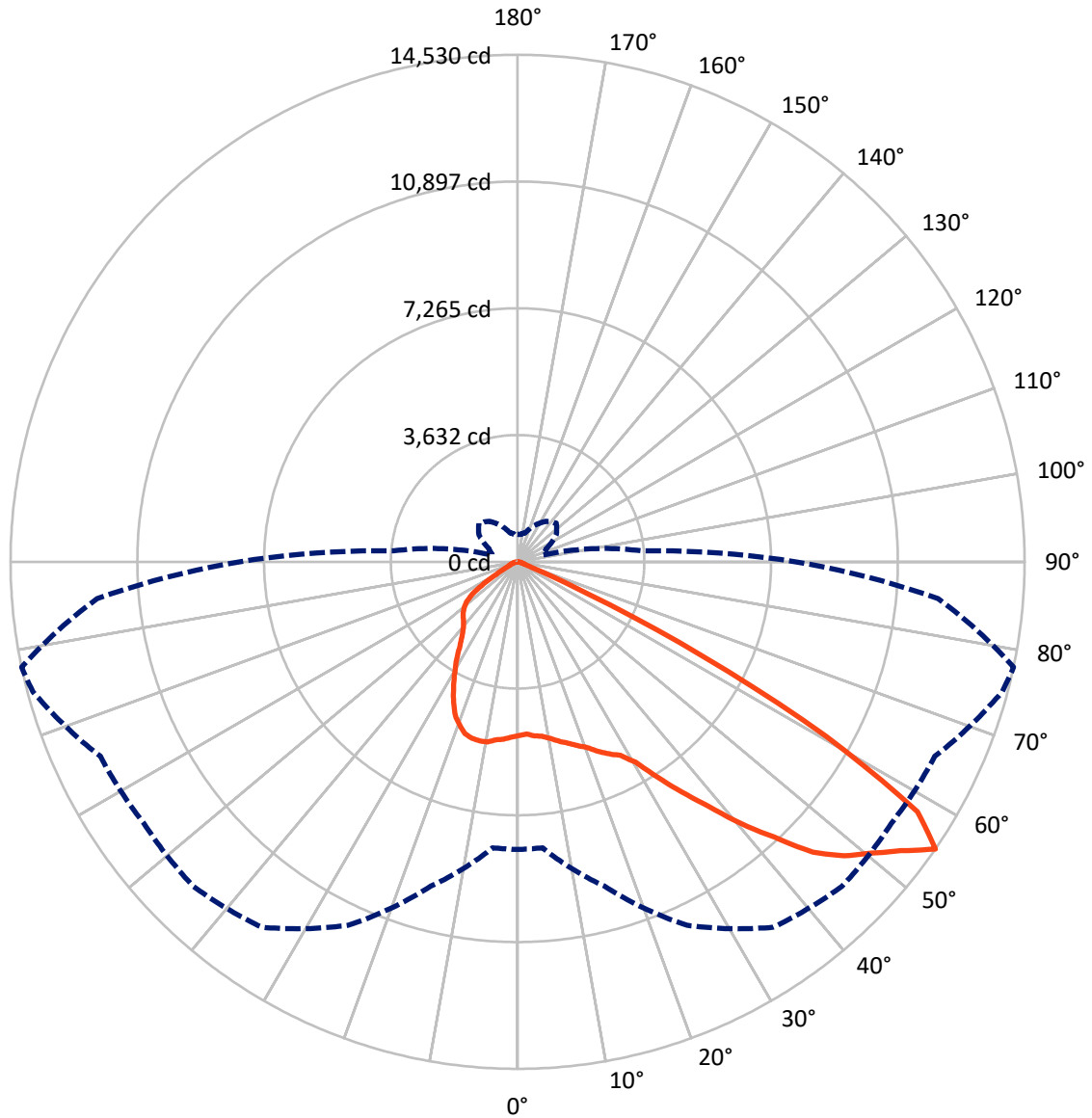
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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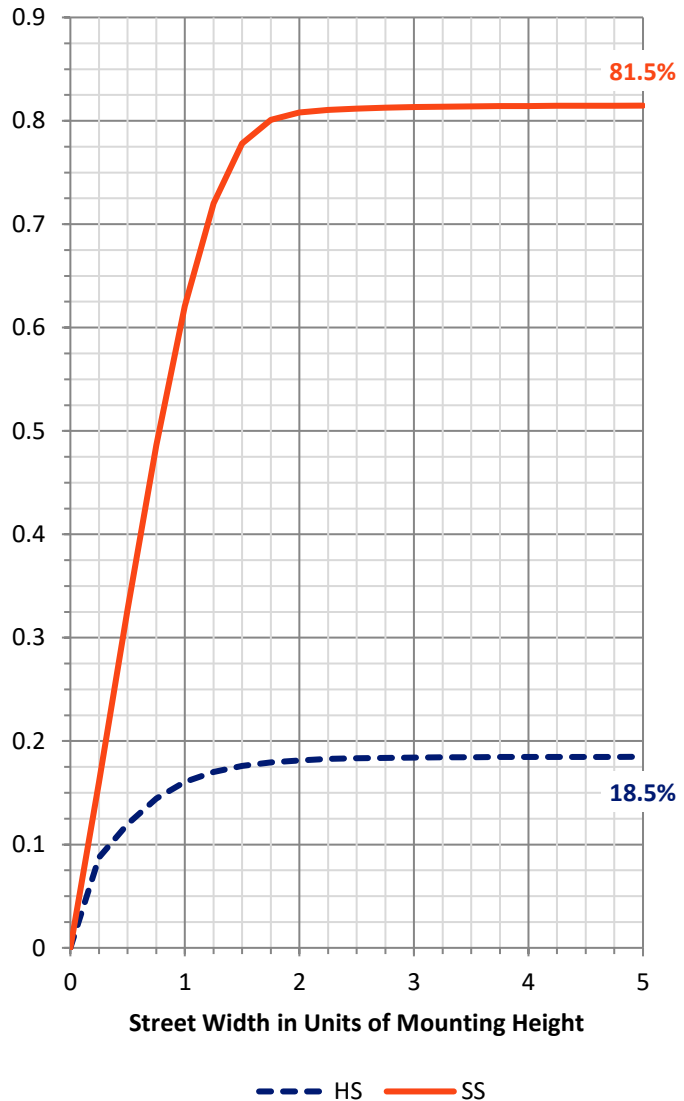
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3598.1   | 0.0    | 3598.1  |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 15773.9  | 0.0    | 15773.9 |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 19372.0  | 0.0    | 19372.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 444.1   | 2.3       |
| 10°-20°   | 1175.3  | 6.1       |
| 20°-30°   | 2060.2  | 10.6      |
| 30°-40°   | 3396.9  | 17.5      |
| 40°-50°   | 4943.0  | 25.5      |
| 50°-60°   | 5600.9  | 28.9      |
| 60°-70°   | 1601.4  | 8.3       |
| 70°-80°   | 124.3   | 0.6       |
| 80°-90°   | 25.9    | 0.1       |
| 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°    | 19372.0 | 100.0     |
| 0°-180°   | 19372.0 | 100.0     |

**Coefficient of Utilization**



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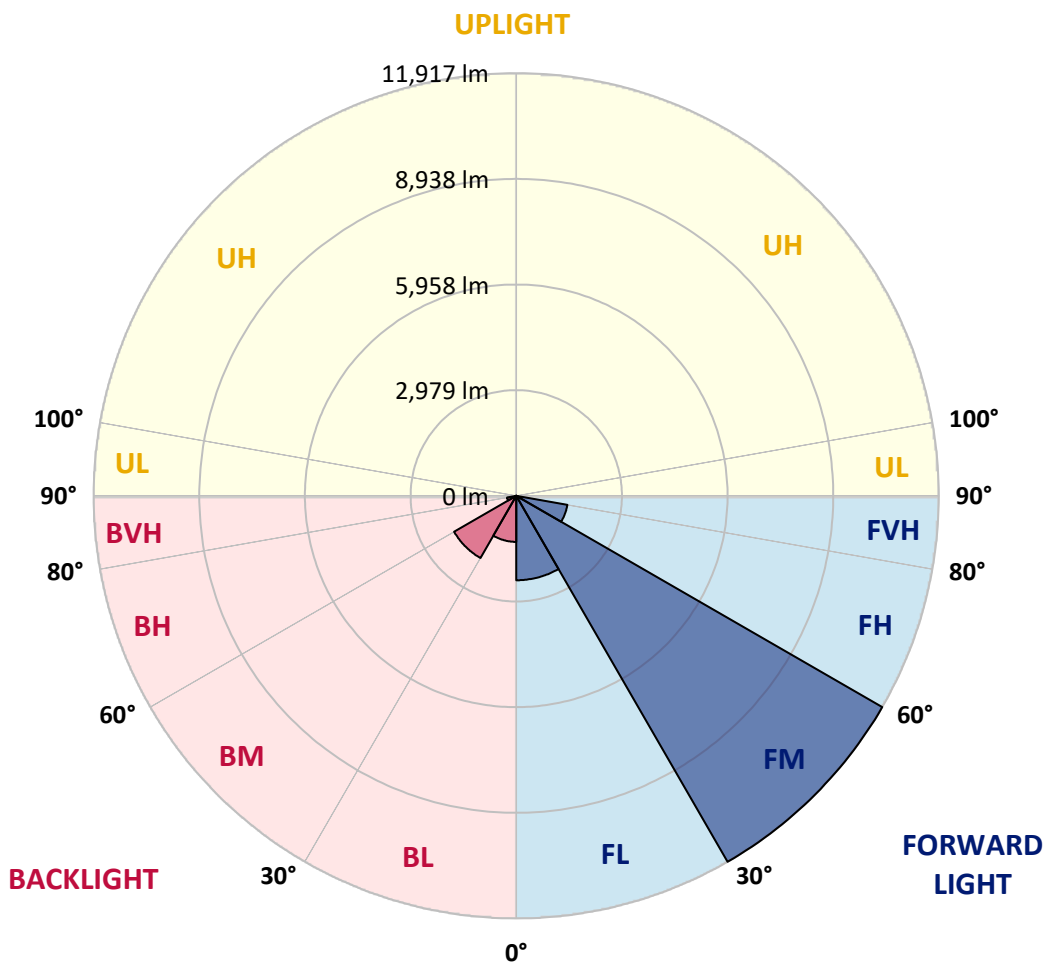
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2381.4  | 12.3      |                         |      |         |
| FM (30°-60°)   | 11916.8 | 61.5      |                         |      |         |
| FH (60°-80°)   | 1463.1  | 7.6       |                         |      | G1/1800 |
| FVH (80°-90°)  | 12.6    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1298.2  | 6.7       | B3/2500                 |      |         |
| BM (30°-60°)   | 2024.0  | 10.4      | B2/2500                 |      |         |
| BH (60°-80°)   | 262.6   | 1.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 13.3    | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 78°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4980.6  | 4980.6  | 4980.6  | 4980.6  | 4980.6  | 4980.6  | 4980.6  | 4980.6  | 4980.6  | 4980.6  | 4980.6  |
| 2.5°  | 4682.7  | 4727.7  | 4734.6  | 4790.1  | 4786.6  | 4880.1  | 4907.8  | 4911.3  | 4973.6  | 4942.5  | 5022.1  |
| 5°    | 4551.1  | 4526.8  | 4516.4  | 4613.4  | 4641.1  | 4724.3  | 4793.5  | 4835.1  | 4963.2  | 5008.3  | 5091.4  |
| 7.5°  | 4433.3  | 4433.3  | 4440.2  | 4526.8  | 4516.4  | 4623.8  | 4696.5  | 4824.7  | 5011.7  | 5049.8  | 5150.3  |
| 10°   | 4319.0  | 4277.5  | 4329.4  | 4419.5  | 4495.7  | 4544.1  | 4696.5  | 4817.8  | 5036.0  | 5146.8  | 5285.3  |
| 12.5° | 4260.1  | 4280.9  | 4287.8  | 4353.7  | 4436.8  | 4582.2  | 4665.4  | 4866.3  | 5209.1  | 5275.0  | 5423.9  |
| 15°   | 4630.7  | 4589.2  | 4488.7  | 4429.9  | 4499.1  | 4568.4  | 4776.2  | 4980.6  | 5299.2  | 5392.7  | 5559.0  |
| 17.5° | 5060.2  | 5025.6  | 4942.5  | 4783.1  | 4627.3  | 4755.4  | 4918.2  | 5105.2  | 5396.2  | 5534.7  | 5780.6  |
| 20°   | 5621.3  | 5565.9  | 5482.8  | 5171.0  | 5036.0  | 4897.4  | 5070.6  | 5292.3  | 5555.5  | 5680.2  | 5933.0  |
| 22.5° | 6289.8  | 6289.8  | 6102.7  | 5725.2  | 5444.7  | 5313.1  | 5385.8  | 5513.9  | 5732.1  | 5901.9  | 6151.2  |
| 25°   | 6985.9  | 6965.2  | 6795.4  | 6404.1  | 5929.6  | 5773.7  | 5856.8  | 5946.9  | 6005.8  | 6099.3  | 6265.5  |
| 27.5° | 7782.5  | 7661.3  | 7446.6  | 7013.6  | 6594.6  | 6293.2  | 6383.3  | 6303.6  | 6230.9  | 6279.4  | 6518.4  |
| 30°   | 8322.9  | 8399.1  | 8125.4  | 7709.8  | 7315.0  | 6979.0  | 6996.3  | 6927.1  | 6594.6  | 6663.8  | 6805.8  |
| 32.5° | 8883.9  | 8932.4  | 8780.0  | 8551.4  | 8156.6  | 7765.2  | 7623.2  | 7564.3  | 7315.0  | 7346.1  | 7207.6  |
| 35°   | 9351.5  | 9445.0  | 9310.0  | 9209.5  | 9095.2  | 8780.0  | 8388.7  | 8579.2  | 8177.4  | 8101.2  | 7741.0  |
| 37.5° | 9781.0  | 9753.3  | 9912.6  | 9808.7  | 9784.5  | 9562.8  | 9133.3  | 9171.4  | 8901.3  | 8883.9  | 8468.3  |
| 40°   | 10165.5 | 10172.4 | 10390.6 | 10439.1 | 10342.1 | 9947.3  | 9323.8  | 9625.1  | 9843.3  | 9864.1  | 9330.7  |
| 42.5° | 10484.1 | 10577.6 | 10764.6 | 11156.0 | 11010.6 | 10352.5 | 9521.2  | 9850.3  | 10660.7 | 10788.9 | 10148.1 |
| 45°   | 10761.2 | 10951.7 | 11183.7 | 11533.5 | 11450.4 | 10927.4 | 10013.1 | 10314.4 | 11533.5 | 11869.5 | 10917.0 |
| 47.5° | 10778.5 | 11027.9 | 11280.7 | 11800.2 | 11904.1 | 11235.7 | 10522.2 | 11048.7 | 12226.3 | 12589.9 | 11478.1 |
| 50°   | 10709.2 | 10840.8 | 11346.5 | 11911.1 | 12146.6 | 11737.9 | 11235.7 | 11665.2 | 12898.2 | 13126.8 | 11762.1 |
| 52.5° | 9888.4  | 9988.8  | 11003.6 | 12015.0 | 12583.0 | 12305.9 | 12181.2 | 12524.1 | 13584.0 | 13753.7 | 12028.8 |
| 55°   | 8243.2  | 8225.9  | 9621.7  | 11492.0 | 12783.9 | 13147.6 | 13071.4 | 13192.6 | 14377.1 | 14529.5 | 12094.6 |
| 57.5° | 5638.6  | 5953.8  | 7159.1  | 9569.7  | 11554.3 | 12950.1 | 13029.8 | 12828.9 | 13452.3 | 13511.2 | 10543.0 |
| 60°   | 3041.0  | 3172.6  | 4142.4  | 6386.7  | 8797.4  | 10553.4 | 10761.2 | 10397.5 | 10349.0 | 10182.8 | 7526.2  |
| 62.5° | 1208.8  | 1274.6  | 1825.3  | 3162.2  | 4793.5  | 6414.5  | 6861.2  | 6712.3  | 6393.7  | 5957.3  | 3896.5  |
| 65°   | 574.9   | 616.5   | 907.4   | 1478.9  | 2126.6  | 2673.8  | 3120.6  | 3259.2  | 2403.7  | 2164.7  | 1285.0  |
| 67.5° | 391.4   | 422.6   | 661.5   | 845.1   | 758.5   | 793.1   | 1032.1  | 959.4   | 564.6   | 481.4   | 356.7   |
| 70°   | 297.9   | 318.6   | 529.9   | 574.9   | 339.4   | 239.0   | 266.7   | 249.4   | 232.1   | 235.5   | 232.1   |
| 72.5° | 211.3   | 228.6   | 387.9   | 339.4   | 148.9   | 110.8   | 142.0   | 169.7   | 169.7   | 169.7   | 166.2   |
| 75°   | 128.2   | 145.5   | 225.1   | 131.6   | 58.9    | 58.9    | 90.1    | 114.3   | 121.2   | 124.7   | 117.8   |
| 77.5° | 65.8    | 83.1    | 76.2    | 38.1    | 38.1    | 45.0    | 65.8    | 79.7    | 86.6    | 86.6    | 83.1    |
| 80°   | 13.9    | 13.9    | 13.9    | 20.8    | 38.1    | 48.5    | 65.8    | 72.7    | 83.1    | 83.1    | 76.2    |
| 82.5° | 0.0     | 3.5     | 10.4    | 20.8    | 34.6    | 45.0    | 62.3    | 72.7    | 83.1    | 86.6    | 79.7    |
| 85°   | 0.0     | 3.5     | 6.9     | 13.9    | 24.2    | 27.7    | 24.2    | 20.8    | 20.8    | 20.8    | 20.8    |
| 87.5° | 0.0     | 0.0     | 3.5     | 3.5     | 3.5     | 6.9     | 6.9     | 6.9     | 6.9     | 6.9     | 6.9     |
| 90°   | 0.0     | 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°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4980.6 | 4980.6 | 4980.6 | 4980.6 | 4980.6 | 4980.6 | 4980.6 | 4980.6 | 4980.6 | 4980.6 | 4980.6 |
| 2.5°  | 5029.0 | 5039.4 | 5022.1 | 5018.7 | 5004.8 | 5046.4 | 4945.9 | 4921.7 | 4984.0 | 4925.1 | 4939.0 |
| 5°    | 5094.8 | 5119.1 | 5087.9 | 5036.0 | 4959.8 | 4842.0 | 4741.6 | 4610.0 | 4547.6 | 4502.6 | 4495.7 |
| 7.5°  | 5143.3 | 5160.7 | 5129.5 | 4963.2 | 4734.6 | 4436.8 | 4215.1 | 4052.3 | 3924.2 | 3886.1 | 3823.7 |
| 10°   | 5340.8 | 5344.2 | 5188.4 | 4821.2 | 4374.4 | 3983.1 | 3643.6 | 3394.3 | 3266.1 | 3186.4 | 3151.8 |
| 12.5° | 5472.4 | 5465.4 | 5150.3 | 4540.7 | 3945.0 | 3425.4 | 3037.5 | 2736.2 | 2618.4 | 2580.3 | 2556.1 |
| 15°   | 5638.6 | 5600.5 | 5060.2 | 4253.2 | 3390.8 | 2829.7 | 2479.9 | 2272.1 | 2261.7 | 2237.4 | 2261.7 |
| 17.5° | 5770.2 | 5662.9 | 4928.6 | 3730.2 | 2860.9 | 2331.0 | 2102.4 | 2116.2 | 2143.9 | 2168.2 | 2171.6 |
| 20°   | 5985.0 | 5763.3 | 4627.3 | 3273.0 | 2369.1 | 1998.5 | 1995.0 | 2057.3 | 2126.6 | 2154.3 | 2182.0 |
| 22.5° | 6147.8 | 5804.9 | 4305.2 | 2784.7 | 1967.3 | 1863.4 | 1922.3 | 2015.8 | 2067.7 | 2095.4 | 2137.0 |
| 25°   | 6206.6 | 5690.6 | 3875.7 | 2296.3 | 1773.3 | 1801.0 | 1891.1 | 1953.4 | 2019.2 | 2050.4 | 2033.1 |
| 27.5° | 6265.5 | 5631.7 | 3363.1 | 1891.1 | 1669.4 | 1759.5 | 1835.7 | 1898.0 | 1918.8 | 1960.4 | 1988.1 |
| 30°   | 6407.5 | 5427.3 | 2902.4 | 1634.8 | 1617.5 | 1731.8 | 1787.2 | 1808.0 | 1863.4 | 1887.6 | 1887.6 |
| 32.5° | 6521.8 | 5347.7 | 2414.1 | 1513.6 | 1610.5 | 1745.6 | 1752.5 | 1752.5 | 1759.5 | 1742.2 | 1735.2 |
| 35°   | 6757.3 | 5074.1 | 1977.7 | 1440.8 | 1607.1 | 1749.1 | 1766.4 | 1707.5 | 1548.2 | 1485.9 | 1468.5 |
| 37.5° | 7048.3 | 4897.4 | 1655.6 | 1423.5 | 1631.3 | 1790.6 | 1818.4 | 1596.7 | 1388.9 | 1288.4 | 1271.1 |
| 40°   | 7401.6 | 4772.7 | 1444.3 | 1416.6 | 1686.7 | 1887.6 | 1804.5 | 1510.1 | 1239.9 | 1094.5 | 1087.5 |
| 42.5° | 7813.7 | 4658.4 | 1302.3 | 1413.1 | 1756.0 | 1988.1 | 1790.6 | 1437.4 | 1087.5 | 990.6  | 1004.4 |
| 45°   | 8142.8 | 4596.1 | 1205.3 | 1388.9 | 1780.3 | 2046.9 | 1801.0 | 1309.2 | 1025.2 | 962.9  | 969.8  |
| 47.5° | 8399.1 | 4464.5 | 1125.6 | 1347.3 | 1776.8 | 2067.7 | 1707.5 | 1257.3 | 994.0  | 1011.4 | 1028.7 |
| 50°   | 8406.0 | 4287.8 | 1025.2 | 1257.3 | 1724.8 | 2029.6 | 1600.1 | 1208.8 | 987.1  | 1059.8 | 1094.5 |
| 52.5° | 8312.5 | 4038.5 | 917.8  | 1129.1 | 1603.6 | 1898.0 | 1503.2 | 1188.0 | 955.9  | 949.0  | 990.6  |
| 55°   | 7980.0 | 3570.9 | 737.7  | 914.4  | 1354.2 | 1565.5 | 1416.6 | 1149.9 | 862.4  | 782.8  | 789.7  |
| 57.5° | 6449.1 | 2559.5 | 543.8  | 654.6  | 959.4  | 1146.4 | 1278.0 | 1132.6 | 775.8  | 665.0  | 668.5  |
| 60°   | 3993.4 | 1451.2 | 398.3  | 446.8  | 592.3  | 696.2  | 1035.6 | 1052.9 | 692.7  | 561.1  | 554.2  |
| 62.5° | 2050.4 | 717.0  | 308.3  | 315.2  | 363.7  | 408.7  | 710.0  | 883.2  | 626.9  | 533.4  | 533.4  |
| 65°   | 685.8  | 353.3  | 270.2  | 242.4  | 242.4  | 252.8  | 429.5  | 613.0  | 529.9  | 446.8  | 446.8  |
| 67.5° | 294.4  | 263.2  | 235.5  | 211.3  | 194.0  | 183.6  | 242.4  | 356.7  | 394.8  | 339.4  | 325.6  |
| 70°   | 228.6  | 221.7  | 204.3  | 176.6  | 152.4  | 138.5  | 142.0  | 183.6  | 225.1  | 218.2  | 211.3  |
| 72.5° | 169.7  | 169.7  | 162.8  | 138.5  | 117.8  | 100.4  | 93.5   | 97.0   | 107.4  | 110.8  | 114.3  |
| 75°   | 117.8  | 121.2  | 121.2  | 107.4  | 86.6   | 72.7   | 62.3   | 52.0   | 41.6   | 34.6   | 31.2   |
| 77.5° | 79.7   | 83.1   | 90.1   | 79.7   | 65.8   | 48.5   | 38.1   | 27.7   | 17.3   | 6.9    | 6.9    |
| 80°   | 69.3   | 79.7   | 86.6   | 79.7   | 69.3   | 52.0   | 38.1   | 20.8   | 10.4   | 0.0    | 0.0    |
| 82.5° | 72.7   | 79.7   | 90.1   | 76.2   | 65.8   | 48.5   | 38.1   | 24.2   | 10.4   | 3.5    | 0.0    |
| 85°   | 17.3   | 17.3   | 20.8   | 24.2   | 31.2   | 34.6   | 27.7   | 17.3   | 10.4   | 3.5    | 0.0    |
| 87.5° | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 3.5    | 3.5    | 3.5    | 3.5    | 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    | 0.0    |

(END OF REPORT)