

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: P319694

Luminaire Tested: **GAN-SA0C-740-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319694  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0C-740-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 70014 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

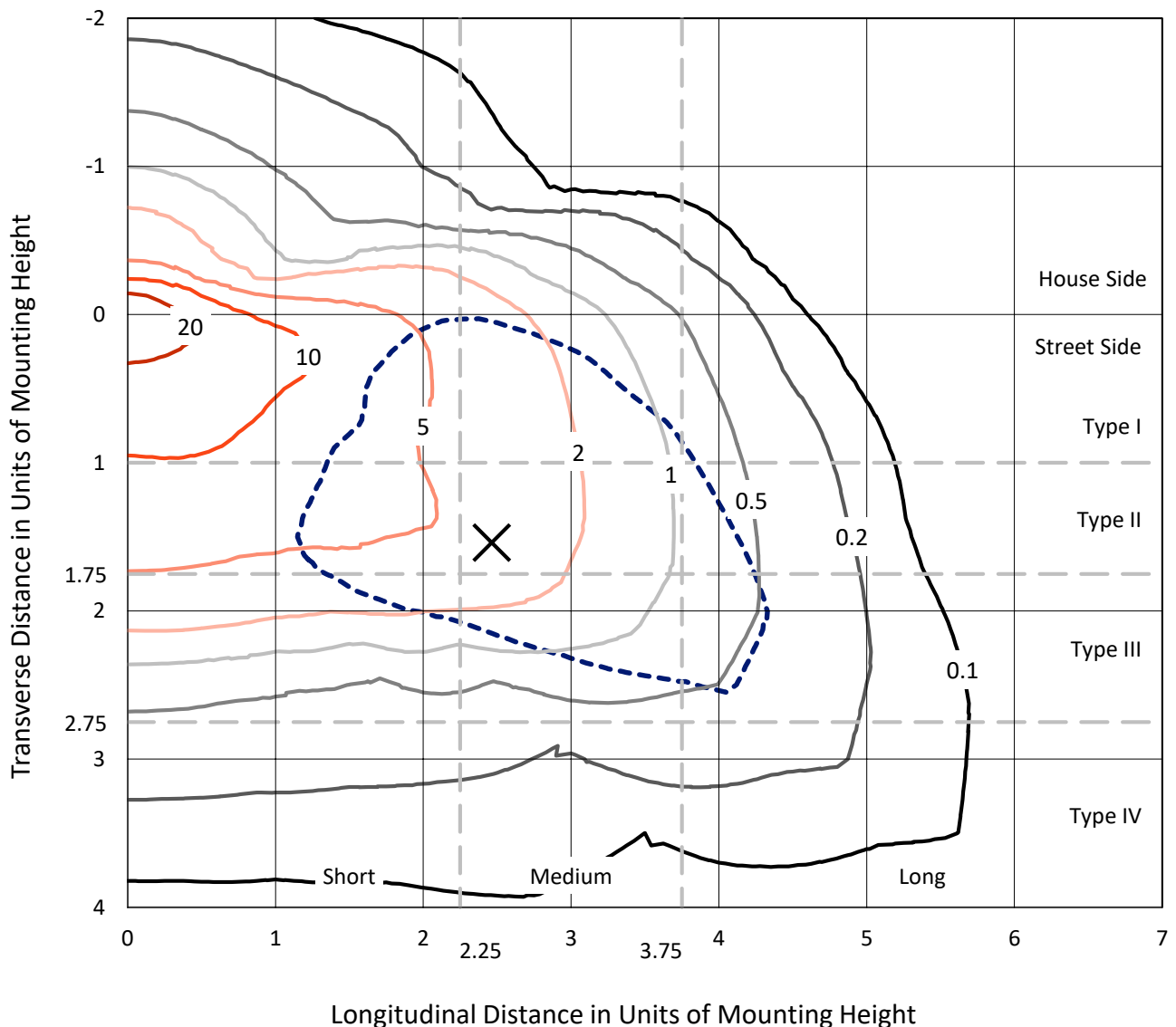
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

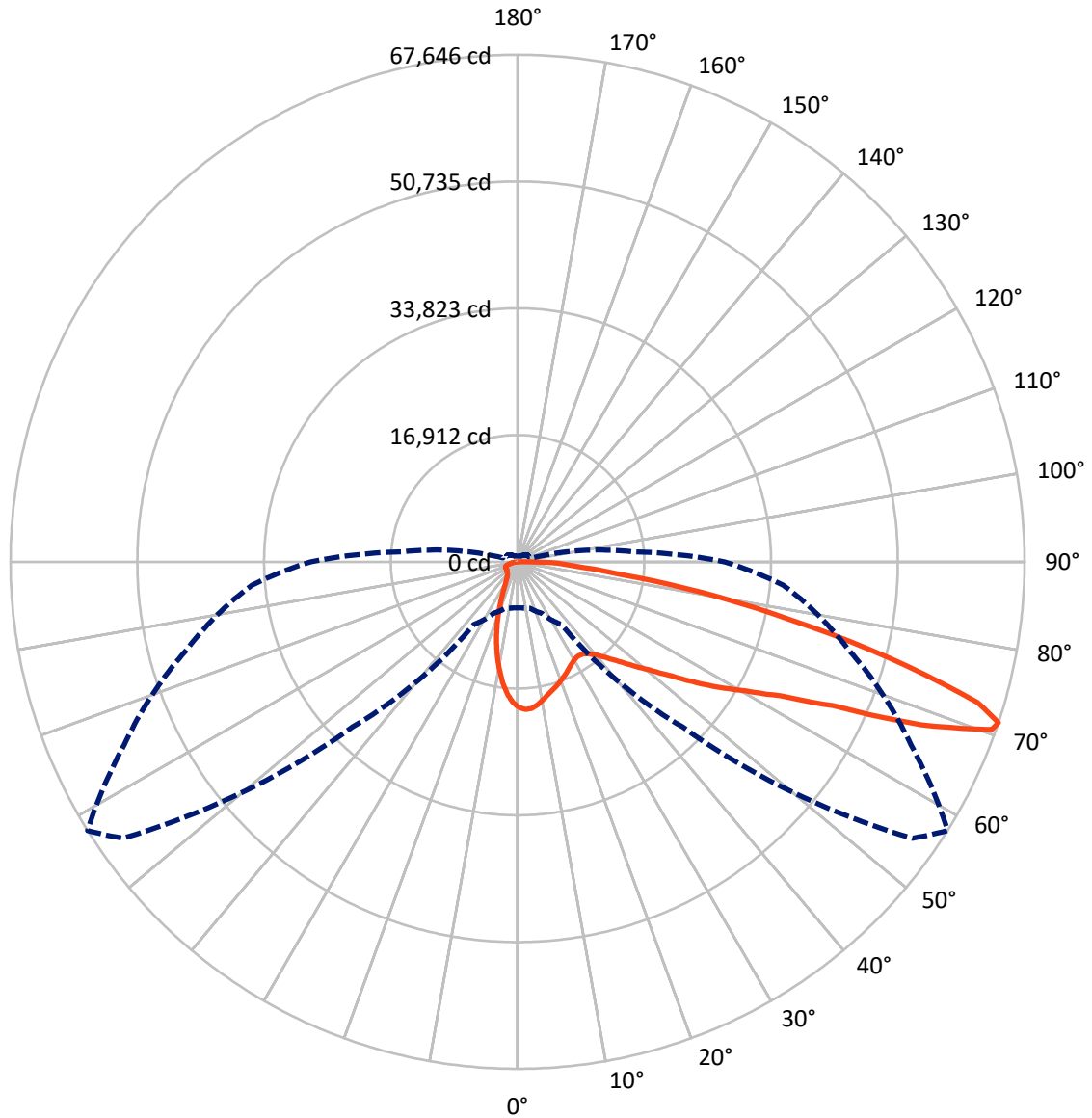
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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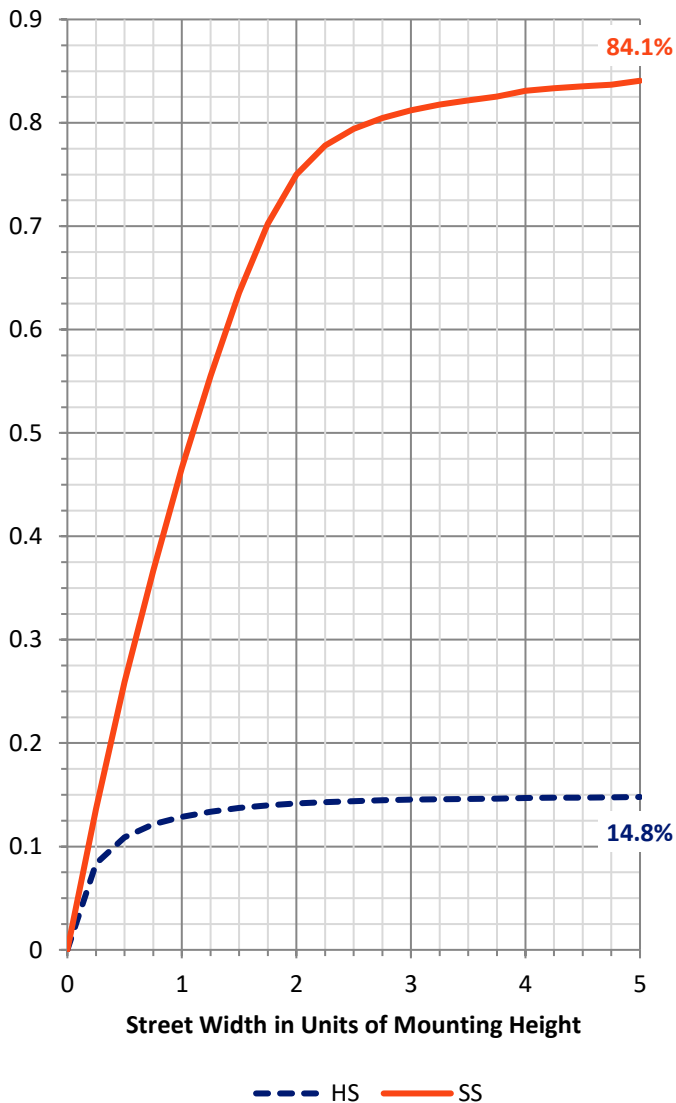
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10467.6  | 0.0    | 10467.6 |
|                    | % Fixture | 15.0     | 0.0    | 15.0    |
| <b>Street Side</b> | Lumens    | 59546.4  | 0.0    | 59546.4 |
|                    | % Fixture | 85.0     | 0.0    | 85.0    |
| <b>Total</b>       | Lumens    | 70014.0  | 0.0    | 70014.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1673.5  | 2.4       |
| 10°-20°   | 3721.2  | 5.3       |
| 20°-30°   | 4729.3  | 6.8       |
| 30°-40°   | 6024.2  | 8.6       |
| 40°-50°   | 8542.6  | 12.2      |
| 50°-60°   | 13220.1 | 18.9      |
| 60°-70°   | 17997.4 | 25.7      |
| 70°-80°   | 12006.4 | 17.1      |
| 80°-90°   | 2099.1  | 3.0       |
| 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°    | 70014.0 | 100.0     |
| 0°-180°   | 70014.0 | 100.0     |



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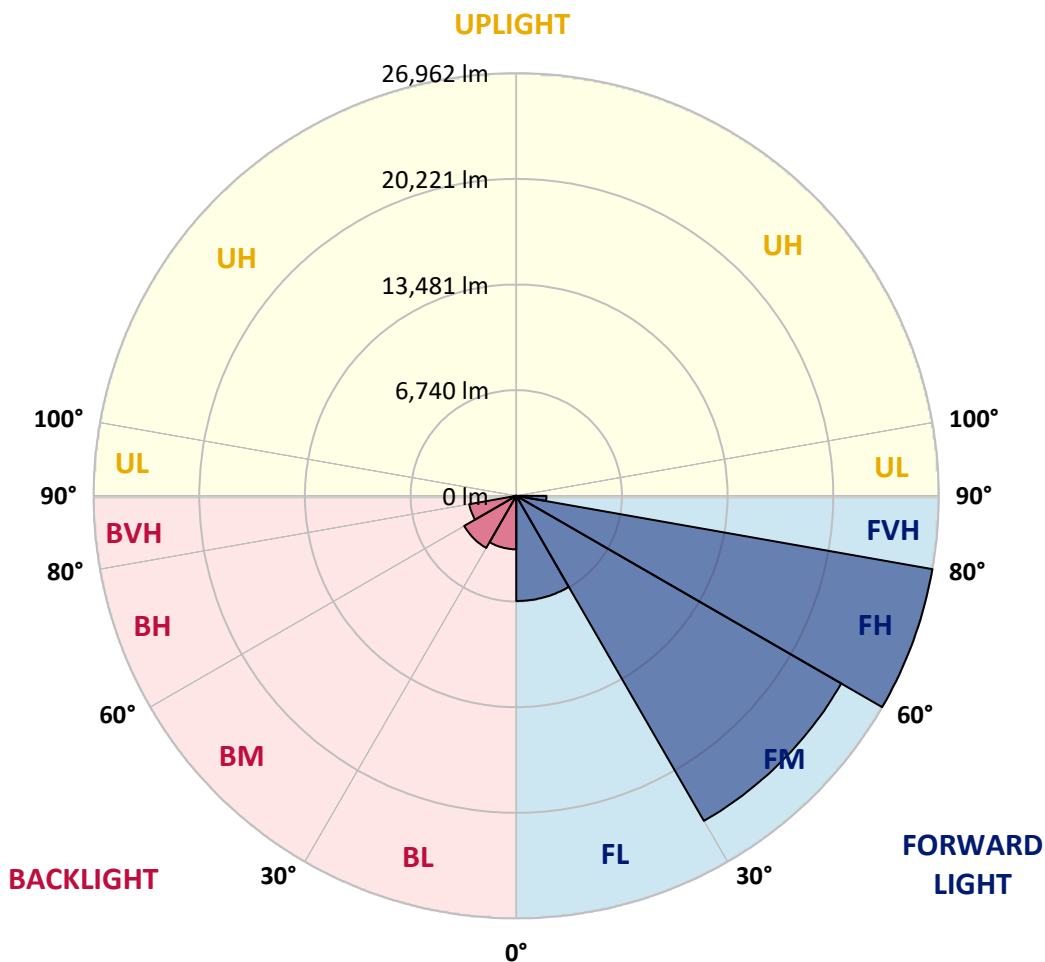
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 6712.0  | 9.6       |                         |      |         |
| FM (30°-60°)   | 23948.2 | 34.2      |                         |      |         |
| FH (60°-80°)   | 26961.5 | 38.5      |                         |      | G5      |
| FVH (80°-90°)  | 1924.7  | 2.7       |                         |      | G5      |
| BL (0°-30°)    | 3412.1  | 4.9       | B4/5000                 |      |         |
| BM (30°-60°)   | 3838.8  | 5.5       | B3/5000                 |      |         |
| BH (60°-80°)   | 3042.3  | 4.3       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 174.4   | 0.2       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 19398.6 | 19398.6 | 19398.6 | 19398.6 | 19398.6 | 19398.6 | 19398.6 | 19398.6 | 19398.6 | 19398.6 | 19398.6 |
| 2.5°  | 19913.2 | 19886.3 | 19896.1 | 19876.6 | 19830.2 | 19783.9 | 19715.6 | 19727.8 | 19632.7 | 19491.2 | 19315.6 |
| 5°    | 19537.6 | 19527.8 | 19601.0 | 19642.4 | 19676.6 | 19649.8 | 19630.2 | 19654.6 | 19515.6 | 19320.5 | 19015.7 |
| 7.5°  | 18749.8 | 18642.5 | 18735.2 | 18874.2 | 19005.9 | 19105.9 | 19237.6 | 19254.7 | 19166.9 | 18962.0 | 18562.0 |
| 10°   | 17630.4 | 17528.0 | 17664.5 | 17881.6 | 18145.0 | 18384.0 | 18649.8 | 18698.6 | 18715.7 | 18530.3 | 18045.0 |
| 12.5° | 16469.5 | 16391.5 | 16528.0 | 16832.9 | 17269.4 | 17637.7 | 18062.1 | 18135.2 | 18286.4 | 18162.1 | 17567.0 |
| 15°   | 15430.6 | 15401.3 | 15567.1 | 15867.1 | 16369.5 | 16932.9 | 17545.0 | 17679.2 | 17935.3 | 17893.8 | 17193.8 |
| 17.5° | 14533.1 | 14525.7 | 14652.6 | 14967.2 | 15523.2 | 16235.4 | 17030.4 | 17257.3 | 17637.7 | 17686.5 | 16886.5 |
| 20°   | 13864.8 | 13850.2 | 13938.0 | 14169.7 | 14742.8 | 15550.1 | 16474.4 | 16786.6 | 17335.3 | 17506.0 | 16569.5 |
| 22.5° | 13506.3 | 13503.9 | 13506.3 | 13616.1 | 14084.3 | 14835.5 | 15933.0 | 16313.4 | 17040.2 | 17362.1 | 16218.3 |
| 25°   | 13445.3 | 13438.0 | 13384.4 | 13372.2 | 13638.0 | 14238.0 | 15396.4 | 15815.9 | 16759.7 | 17262.1 | 15884.2 |
| 27.5° | 13603.9 | 13613.6 | 13542.9 | 13428.3 | 13481.9 | 13845.3 | 14930.6 | 15379.3 | 16535.4 | 17242.6 | 15652.5 |
| 30°   | 13933.1 | 13928.2 | 13867.3 | 13747.8 | 13642.9 | 13699.0 | 14598.9 | 15047.7 | 16384.1 | 17328.0 | 15494.0 |
| 32.5° | 14296.5 | 14323.3 | 14311.1 | 14245.3 | 14089.2 | 13864.8 | 14498.9 | 14937.9 | 16340.2 | 17532.8 | 15425.7 |
| 35°   | 14733.1 | 14762.3 | 14850.1 | 14901.3 | 14718.4 | 14357.5 | 14713.5 | 15094.0 | 16467.1 | 17918.2 | 15535.4 |
| 37.5° | 15147.7 | 15223.3 | 15469.6 | 15686.6 | 15530.6 | 15128.1 | 15284.2 | 15554.9 | 16859.7 | 18525.5 | 15830.5 |
| 40°   | 15625.7 | 15691.5 | 16093.9 | 16554.9 | 16530.5 | 16113.4 | 16203.7 | 16384.1 | 17552.4 | 19396.1 | 16364.6 |
| 42.5° | 16096.4 | 16228.1 | 16810.9 | 17464.6 | 17652.3 | 17284.1 | 17428.0 | 17523.1 | 18527.9 | 20549.7 | 17296.3 |
| 45°   | 16723.1 | 16864.6 | 17674.3 | 18462.0 | 18901.0 | 18693.7 | 18923.0 | 18959.6 | 19754.6 | 22120.3 | 18649.8 |
| 47.5° | 17671.9 | 17832.8 | 18776.7 | 19603.4 | 20274.1 | 20296.1 | 20674.1 | 20659.4 | 21286.2 | 23917.7 | 20354.6 |
| 50°   | 19149.8 | 19381.5 | 20154.6 | 20927.7 | 21742.3 | 22195.9 | 22700.8 | 22630.0 | 23122.7 | 25832.2 | 22317.9 |
| 52.5° | 21086.2 | 21193.5 | 21766.7 | 22337.4 | 23349.5 | 24366.5 | 25090.8 | 25027.4 | 25205.4 | 27800.4 | 24547.0 |
| 55°   | 23093.4 | 23173.9 | 23410.5 | 23722.6 | 25083.5 | 26741.9 | 28273.5 | 28173.5 | 27722.3 | 29844.1 | 26749.2 |
| 57.5° | 24898.1 | 25061.6 | 25225.0 | 25354.2 | 26829.7 | 29224.7 | 31529.4 | 31536.7 | 30453.8 | 32048.8 | 29024.7 |
| 60°   | 25178.6 | 25322.5 | 26402.9 | 27422.4 | 29817.3 | 32536.6 | 35014.5 | 34941.3 | 33280.5 | 34441.3 | 31561.1 |
| 62.5° | 22256.9 | 22581.2 | 24386.0 | 27098.0 | 32695.1 | 38594.7 | 39460.5 | 39370.2 | 36660.7 | 37389.9 | 34514.5 |
| 65°   | 15950.0 | 16318.3 | 18496.2 | 22571.5 | 31300.1 | 45269.8 | 47484.3 | 46269.7 | 41270.1 | 41016.5 | 37972.8 |
| 67.5° | 9201.8  | 9289.6  | 10233.4 | 13506.3 | 23832.4 | 45618.6 | 59724.8 | 58025.0 | 48428.1 | 45130.8 | 39665.3 |
| 70°   | 6804.4  | 6801.9  | 7026.3  | 8311.6  | 12896.6 | 37231.4 | 65546.3 | 67070.6 | 55964.1 | 46484.4 | 37272.8 |
| 71°   | 6153.2  | 6160.5  | 6411.7  | 7565.3  | 10213.9 | 31163.5 | 64309.9 | 67646.2 | 57949.4 | 45816.1 | 35541.3 |
| 72.5° | 5263.0  | 5287.4  | 5636.2  | 6784.9  | 8592.0  | 21491.1 | 58983.4 | 64192.8 | 58890.7 | 44167.4 | 32831.7 |
| 75°   | 3992.4  | 4048.5  | 4531.4  | 5719.1  | 7853.1  | 10899.2 | 43289.5 | 51259.6 | 52315.6 | 38972.7 | 24395.7 |
| 77.5° | 2848.6  | 2912.0  | 3458.3  | 4809.4  | 7465.3  | 8214.0  | 28990.5 | 37389.9 | 38499.6 | 24976.2 | 11004.1 |
| 80°   | 1799.9  | 1875.5  | 2287.6  | 3826.5  | 7014.1  | 7799.4  | 18218.2 | 25132.3 | 20993.6 | 7992.1  | 2799.8  |
| 82.5° | 1056.0  | 1114.6  | 1419.4  | 2499.8  | 5728.8  | 7511.6  | 10718.7 | 13930.7 | 8170.1  | 2414.5  | 1273.1  |
| 85°   | 612.1   | 639.0   | 885.3   | 1592.6  | 4160.7  | 7089.7  | 7875.0  | 7787.2  | 3546.1  | 1180.4  | 602.4   |
| 87.5° | 285.3   | 317.0   | 524.4   | 831.6   | 2309.6  | 5138.6  | 6223.9  | 5377.6  | 2204.7  | 553.6   | 282.9   |
| 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°    | 19398.6 | 19398.6 | 19398.6 | 19398.6 | 19398.6 | 19398.6 | 19398.6 | 19398.6 | 19398.6 | 19398.6 | 19398.6 |
| 2.5°  | 19230.3 | 19188.8 | 19015.7 | 18862.0 | 18701.0 | 18491.3 | 18259.6 | 18230.4 | 18088.9 | 18115.7 | 18067.0 |
| 5°    | 18849.8 | 18744.9 | 18327.9 | 17949.9 | 17503.6 | 17103.6 | 16669.5 | 16469.5 | 16181.7 | 16162.2 | 16089.0 |
| 7.5°  | 18306.0 | 18110.8 | 17464.6 | 16747.5 | 16030.5 | 15347.6 | 14672.1 | 14228.2 | 13774.6 | 13581.9 | 13564.8 |
| 10°   | 17693.8 | 17362.1 | 16411.0 | 15350.1 | 14316.0 | 13318.5 | 12352.7 | 11638.2 | 10994.3 | 10689.4 | 10677.3 |
| 12.5° | 17113.4 | 16623.2 | 15318.4 | 13874.6 | 12460.0 | 11167.5 | 9843.2  | 8904.2  | 8097.0  | 7826.2  | 7711.6  |
| 15°   | 16620.7 | 15930.5 | 14255.0 | 12408.8 | 10691.9 | 8896.9  | 7389.7  | 6402.0  | 5655.7  | 5397.2  | 5348.4  |
| 17.5° | 16142.7 | 15255.0 | 13164.9 | 10928.5 | 8853.0  | 6880.0  | 5370.3  | 4636.2  | 4238.7  | 4133.8  | 4131.4  |
| 20°   | 15667.1 | 14559.9 | 12025.9 | 9413.9  | 7075.1  | 5146.0  | 4129.0  | 3799.7  | 3665.6  | 3653.4  | 3633.9  |
| 22.5° | 15128.1 | 13823.4 | 10828.5 | 7894.5  | 5521.5  | 4046.0  | 3509.5  | 3377.8  | 3360.7  | 3404.6  | 3404.6  |
| 25°   | 14623.3 | 13091.7 | 9613.9  | 6406.8  | 4294.8  | 3375.4  | 3133.9  | 3107.1  | 3153.4  | 3231.5  | 3238.8  |
| 27.5° | 14152.6 | 12386.9 | 8428.6  | 5085.0  | 3441.2  | 2972.9  | 2873.0  | 2904.7  | 2987.6  | 3077.8  | 3080.3  |
| 30°   | 13764.8 | 11721.1 | 7277.5  | 4007.0  | 2907.1  | 2673.0  | 2655.9  | 2719.3  | 2809.5  | 2880.3  | 2897.3  |
| 32.5° | 13464.9 | 11152.8 | 6165.4  | 3221.7  | 2558.3  | 2448.6  | 2463.2  | 2516.9  | 2573.0  | 2612.0  | 2638.8  |
| 35°   | 13325.8 | 10665.1 | 5138.6  | 2716.9  | 2336.4  | 2275.4  | 2295.0  | 2324.2  | 2348.6  | 2377.9  | 2399.8  |
| 37.5° | 13350.2 | 10287.0 | 4221.6  | 2402.3  | 2187.6  | 2155.9  | 2155.9  | 2155.9  | 2155.9  | 2170.6  | 2173.0  |
| 40°   | 13577.0 | 10070.0 | 3475.4  | 2202.3  | 2087.6  | 2053.5  | 2026.7  | 2002.3  | 1982.8  | 1992.5  | 1987.7  |
| 42.5° | 14157.5 | 10050.5 | 2929.1  | 2075.5  | 2007.2  | 1951.1  | 1897.4  | 1863.3  | 1838.9  | 1848.6  | 1853.5  |
| 45°   | 15142.8 | 10294.4 | 2560.8  | 1985.2  | 1931.6  | 1846.2  | 1777.9  | 1741.3  | 1724.3  | 1756.0  | 1760.8  |
| 47.5° | 16418.3 | 10826.0 | 2336.4  | 1919.4  | 1860.8  | 1748.7  | 1675.5  | 1641.3  | 1646.2  | 1692.6  | 1704.8  |
| 50°   | 18062.1 | 11689.4 | 2229.1  | 1877.9  | 1812.1  | 1665.7  | 1590.1  | 1560.9  | 1575.5  | 1641.3  | 1656.0  |
| 52.5° | 19866.8 | 12933.2 | 2241.3  | 1865.7  | 1780.4  | 1604.8  | 1524.3  | 1490.1  | 1514.5  | 1575.5  | 1587.7  |
| 55°   | 21949.6 | 14428.2 | 2443.7  | 1882.8  | 1734.0  | 1565.7  | 1470.6  | 1412.1  | 1431.6  | 1487.7  | 1497.4  |
| 57.5° | 24264.1 | 16140.3 | 2851.0  | 1877.9  | 1675.5  | 1529.2  | 1414.5  | 1326.7  | 1341.4  | 1375.5  | 1385.3  |
| 60°   | 26673.6 | 18208.4 | 3482.7  | 1892.5  | 1648.7  | 1485.3  | 1338.9  | 1229.2  | 1224.3  | 1253.6  | 1258.4  |
| 62.5° | 29566.1 | 20600.9 | 4204.6  | 1902.3  | 1665.7  | 1429.2  | 1238.9  | 1131.6  | 1117.0  | 1124.3  | 1129.2  |
| 65°   | 32546.4 | 22332.5 | 3933.9  | 1863.3  | 1719.4  | 1382.8  | 1151.1  | 1036.5  | 1009.7  | 1004.8  | 1007.2  |
| 67.5° | 32639.0 | 20476.5 | 2758.3  | 1785.2  | 1741.3  | 1358.4  | 1085.3  | 956.0   | 912.1   | 895.1   | 892.6   |
| 70°   | 29271.0 | 16635.3 | 2148.6  | 1702.3  | 1653.5  | 1319.4  | 1024.3  | 890.2   | 824.3   | 797.5   | 795.1   |
| 71°   | 27627.2 | 15313.5 | 2036.4  | 1660.9  | 1587.7  | 1280.4  | 997.5   | 860.9   | 792.6   | 763.4   | 758.5   |
| 72.5° | 25049.4 | 13728.2 | 1899.9  | 1595.0  | 1460.9  | 1180.4  | 946.3   | 819.5   | 748.7   | 714.6   | 707.3   |
| 75°   | 17976.7 | 8977.4  | 1631.6  | 1421.8  | 1209.7  | 941.4   | 829.2   | 736.5   | 675.6   | 634.1   | 629.2   |
| 77.5° | 6926.3  | 3572.9  | 1234.1  | 1182.8  | 926.8   | 736.5   | 682.9   | 636.5   | 592.6   | 551.2   | 548.7   |
| 80°   | 2141.3  | 1597.4  | 899.9   | 890.2   | 670.7   | 548.7   | 531.7   | 519.5   | 502.4   | 458.5   | 448.7   |
| 82.5° | 1143.8  | 917.0   | 619.5   | 575.6   | 439.0   | 365.8   | 385.3   | 390.2   | 392.7   | 346.3   | 341.4   |
| 85°   | 546.3   | 485.3   | 348.8   | 326.8   | 256.1   | 204.9   | 236.6   | 256.1   | 258.5   | 212.2   | 197.5   |
| 87.5° | 261.0   | 253.6   | 163.4   | 124.4   | 95.1    | 68.3    | 82.9    | 102.4   | 112.2   | 80.5    | 70.7    |
| 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)