

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: P456318

Luminaire Tested: **GLAN-SA7C-750-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456318  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7C-750-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 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: 48535 lumens  
Efficiency: N/A  
Efficacy: 128.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

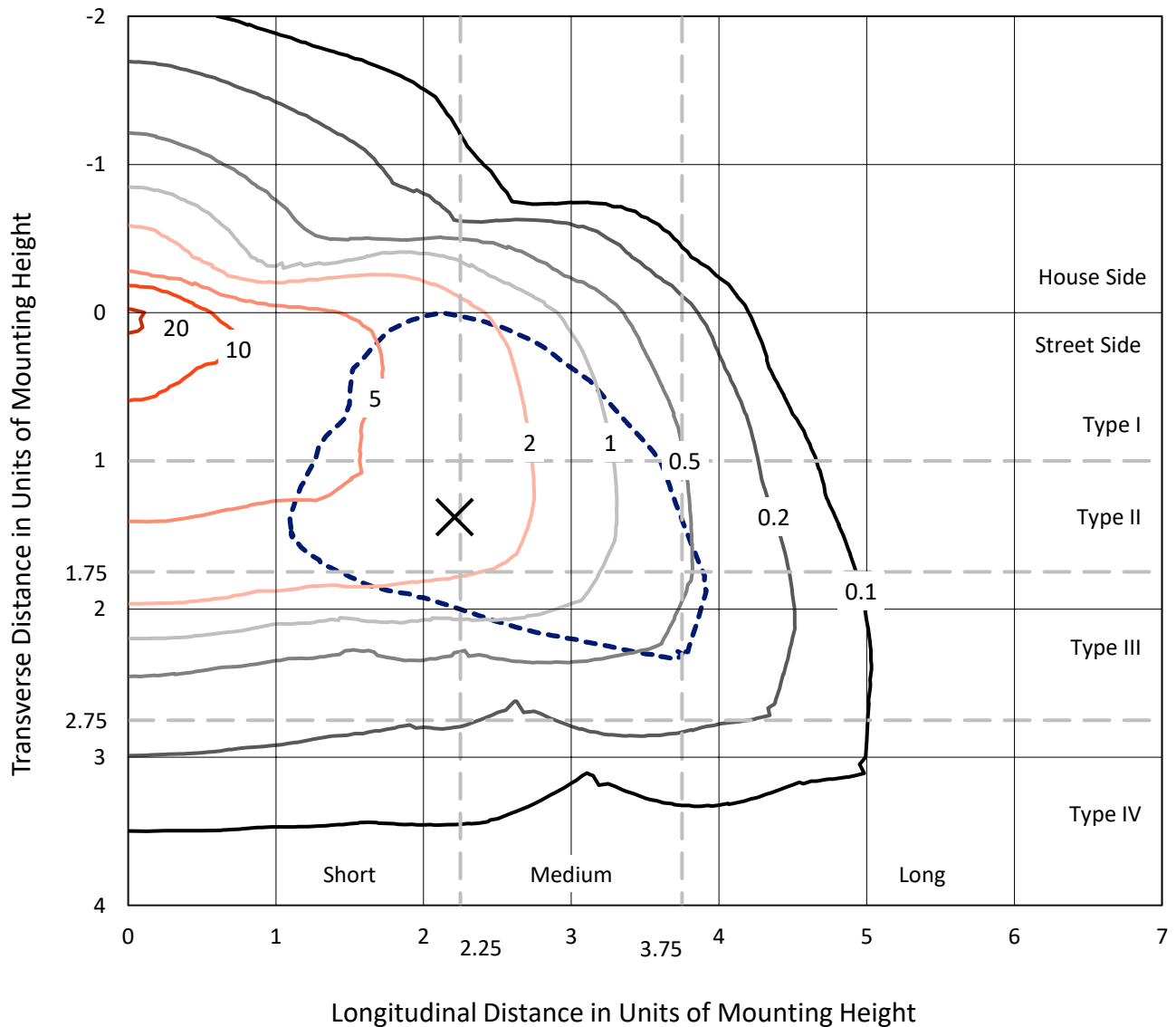
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

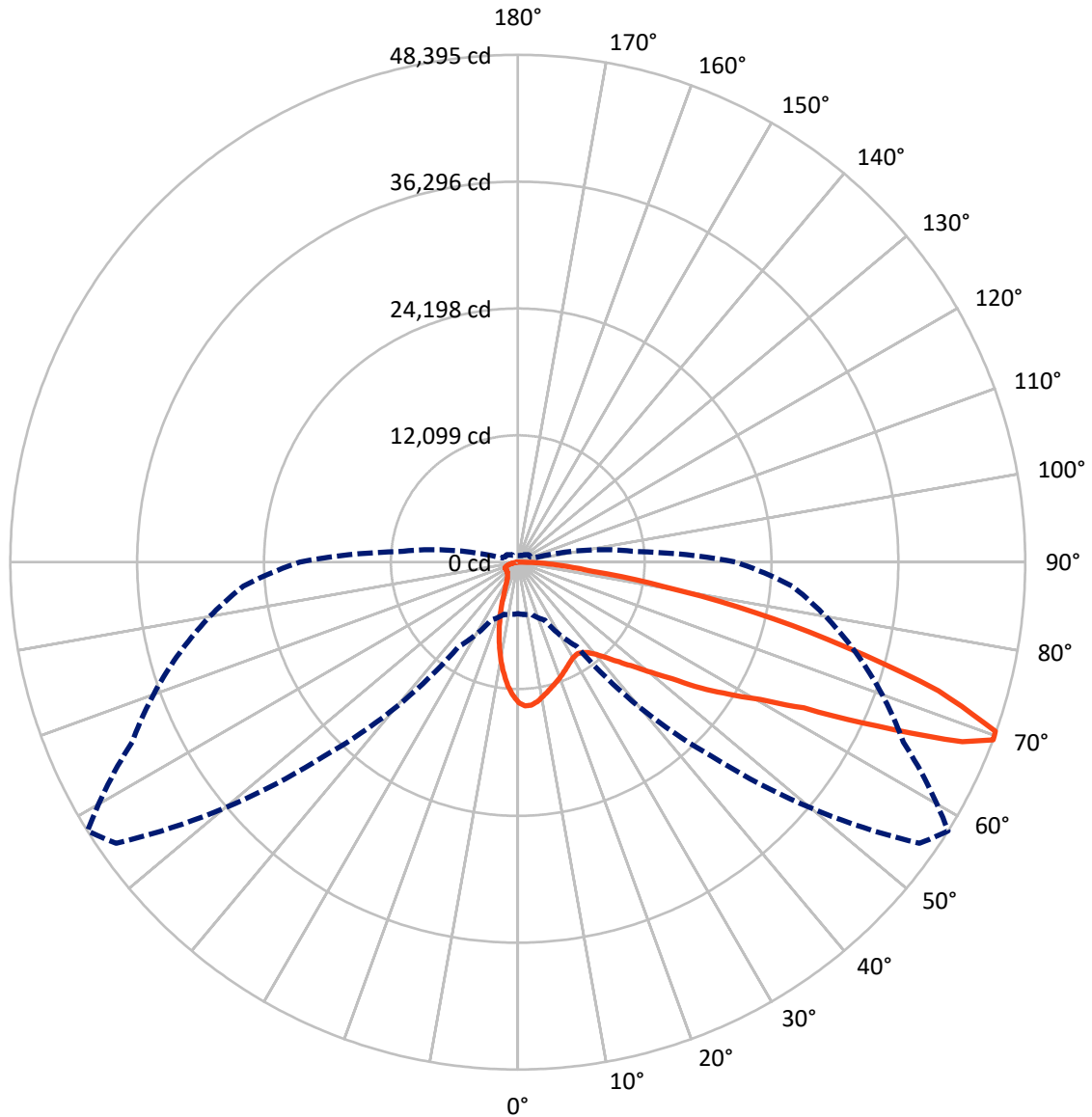
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7112.8   | 0.0    | 7112.8  |
|                    | % Fixture | 14.7     | 0.0    | 14.7    |
| <b>Street Side</b> | Lumens    | 41422.2  | 0.0    | 41422.2 |
|                    | % Fixture | 85.3     | 0.0    | 85.3    |
| <b>Total</b>       | Lumens    | 48535.0  | 0.0    | 48535.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1139.0  | 2.3       |
| 10°-20°   | 2501.1  | 5.2       |
| 20°-30°   | 3231.5  | 6.7       |
| 30°-40°   | 4197.0  | 8.6       |
| 40°-50°   | 6101.9  | 12.6      |
| 50°-60°   | 9736.6  | 20.1      |
| 60°-70°   | 13006.9 | 26.8      |
| 70°-80°   | 7497.9  | 15.4      |
| 80°-90°   | 1123.0  | 2.3       |
| 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°    | 48535.0 | 100.0     |
| 0°-180°   | 48535.0 | 100.0     |



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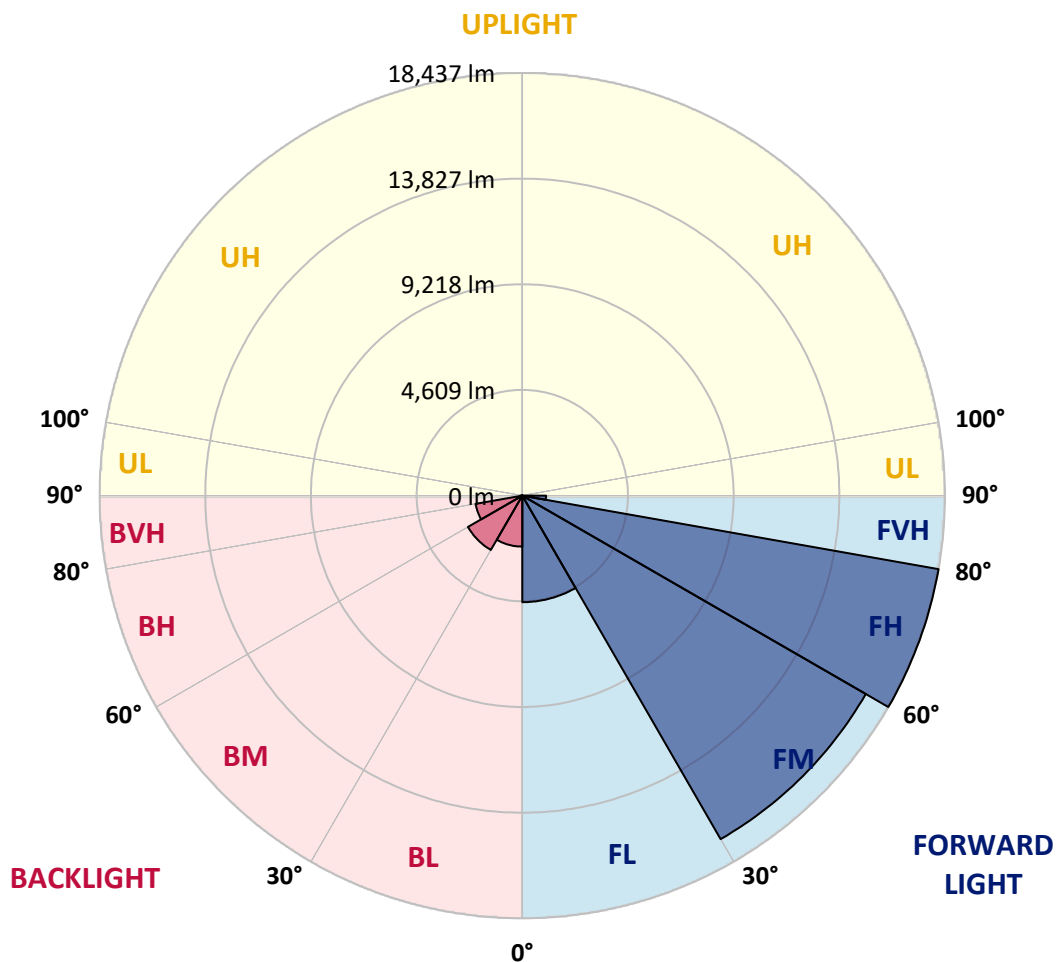
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4648.4  | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 17300.2 | 35.6      |                         |      |         |
| FH   | (60°-80°)   | 18436.6 | 38.0      |                         |      | G5      |
| FVH  | (80°-90°)   | 1037.0  | 2.1       |                         |      | G5      |
| BL   | (0°-30°)    | 2223.2  | 4.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2735.3  | 5.6       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2068.3  | 4.3       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 86.0    | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13412.2 | 13412.2 | 13412.2 | 13412.2 | 13412.2 | 13412.2 | 13412.2 | 13412.2 | 13412.2 | 13412.2 | 13412.2 |
| 2.5°  | 13910.3 | 13948.2 | 13937.4 | 13923.8 | 13902.2 | 13842.6 | 13745.2 | 13728.9 | 13666.7 | 13534.0 | 13368.9 |
| 5°    | 13696.4 | 13728.9 | 13731.6 | 13750.6 | 13777.7 | 13766.8 | 13696.4 | 13688.3 | 13596.3 | 13417.6 | 13141.6 |
| 7.5°  | 12962.9 | 13006.2 | 13100.9 | 13206.5 | 13301.3 | 13390.6 | 13412.2 | 13425.8 | 13368.9 | 13163.2 | 12795.1 |
| 10°   | 12137.3 | 12180.6 | 12223.9 | 12380.9 | 12613.7 | 12835.7 | 13019.7 | 13044.1 | 13057.6 | 12868.2 | 12418.8 |
| 12.5° | 11222.4 | 11311.7 | 11403.8 | 11636.6 | 11947.8 | 12297.0 | 12621.8 | 12673.3 | 12765.3 | 12621.8 | 12094.0 |
| 15°   | 10445.6 | 10537.6 | 10670.2 | 10878.7 | 11254.9 | 11758.4 | 12215.8 | 12299.7 | 12481.1 | 12408.0 | 11790.9 |
| 17.5° | 9906.9  | 9939.4  | 10031.4 | 10269.6 | 10675.6 | 11206.2 | 11817.9 | 11985.7 | 12275.4 | 12256.4 | 11531.0 |
| 20°   | 9481.9  | 9522.5  | 9579.4  | 9725.6  | 10147.8 | 10708.1 | 11447.1 | 11663.6 | 12056.1 | 12121.1 | 11273.9 |
| 22.5° | 9303.3  | 9333.1  | 9325.0  | 9403.5  | 9690.4  | 10253.4 | 11070.8 | 11328.0 | 11861.2 | 12029.1 | 11035.7 |
| 25°   | 9314.1  | 9341.2  | 9300.6  | 9281.6  | 9452.2  | 9852.8  | 10678.4 | 11005.9 | 11704.2 | 11966.8 | 10819.1 |
| 27.5° | 9495.5  | 9514.4  | 9438.6  | 9362.8  | 9376.4  | 9603.8  | 10353.5 | 10716.3 | 11571.6 | 11993.9 | 10637.8 |
| 30°   | 9739.1  | 9774.3  | 9725.6  | 9633.5  | 9533.4  | 9544.2  | 10145.1 | 10502.4 | 11509.3 | 12088.6 | 10551.1 |
| 32.5° | 10053.1 | 10085.6 | 10063.9 | 9990.8  | 9860.9  | 9717.4  | 10093.7 | 10423.9 | 11514.8 | 12280.8 | 10532.2 |
| 35°   | 10383.3 | 10448.3 | 10483.5 | 10478.1 | 10372.5 | 10123.5 | 10296.7 | 10570.1 | 11644.7 | 12602.9 | 10643.2 |
| 37.5° | 10756.9 | 10811.0 | 10962.6 | 11060.0 | 10962.6 | 10672.9 | 10754.1 | 10943.6 | 11931.6 | 13068.5 | 10886.8 |
| 40°   | 11119.6 | 11200.8 | 11422.7 | 11725.9 | 11688.0 | 11433.6 | 11452.5 | 11577.0 | 12437.8 | 13761.4 | 11363.2 |
| 42.5° | 11498.5 | 11596.0 | 11983.0 | 12432.4 | 12521.7 | 12324.1 | 12375.5 | 12486.5 | 13157.8 | 14722.3 | 12180.6 |
| 45°   | 11985.7 | 12102.1 | 12578.5 | 13138.8 | 13490.7 | 13368.9 | 13515.1 | 13569.2 | 14121.4 | 15972.9 | 13257.9 |
| 47.5° | 12613.7 | 12749.1 | 13336.4 | 14034.8 | 14532.9 | 14643.8 | 14898.3 | 14865.8 | 15315.1 | 17453.5 | 14654.7 |
| 50°   | 13672.1 | 13747.9 | 14302.8 | 15014.7 | 15699.5 | 16200.2 | 16476.3 | 16527.8 | 16795.7 | 18893.5 | 16216.5 |
| 52.5° | 14930.8 | 14998.4 | 15399.0 | 16021.6 | 16879.7 | 17940.7 | 18622.8 | 18455.0 | 18520.0 | 20647.5 | 18043.6 |
| 55°   | 16346.4 | 16460.1 | 16714.5 | 17128.7 | 18241.2 | 19803.0 | 21172.7 | 21213.3 | 20493.2 | 22325.8 | 19794.9 |
| 57.5° | 17442.7 | 17634.9 | 18070.6 | 18660.7 | 20071.0 | 21873.7 | 23714.3 | 23741.4 | 22821.1 | 24117.7 | 21727.5 |
| 60°   | 16890.5 | 17117.9 | 18114.0 | 19551.3 | 22471.9 | 25487.3 | 26751.4 | 26597.1 | 25086.7 | 26158.6 | 24085.2 |
| 62.5° | 14508.5 | 14549.1 | 15997.2 | 18243.9 | 23210.9 | 30321.7 | 31271.8 | 30619.4 | 28110.2 | 28746.3 | 26480.7 |
| 65°   | 9389.9  | 9655.2  | 10802.9 | 13950.9 | 20782.9 | 33004.1 | 39191.9 | 37684.2 | 32349.1 | 31683.2 | 28486.4 |
| 67.5° | 5927.9  | 5860.2  | 6336.6  | 7966.1  | 14294.7 | 30641.1 | 45950.8 | 45712.6 | 37892.6 | 33537.3 | 28007.3 |
| 69°   | 4915.6  | 4991.4  | 5153.8  | 6106.6  | 9836.5  | 26161.3 | 46749.3 | 48395.0 | 40580.5 | 33391.2 | 26266.9 |
| 70°   | 4458.1  | 4493.3  | 4663.8  | 5413.6  | 7589.9  | 21911.6 | 45439.2 | 48321.9 | 41636.1 | 32779.4 | 25005.5 |
| 72.5° | 3537.8  | 3535.1  | 3827.4  | 4504.1  | 5673.5  | 12508.2 | 37310.6 | 41952.8 | 40455.9 | 29931.9 | 20661.1 |
| 75°   | 2687.9  | 2731.2  | 3053.3  | 3811.2  | 5226.8  | 6834.7  | 26036.8 | 32308.5 | 32311.2 | 23641.3 | 12892.5 |
| 77.5° | 1938.1  | 1965.1  | 2341.4  | 3199.4  | 4923.7  | 5540.8  | 17342.5 | 23173.0 | 21784.4 | 10832.6 | 4052.1  |
| 80°   | 1269.5  | 1285.7  | 1572.7  | 2533.6  | 4439.2  | 5226.8  | 10283.2 | 14183.7 | 10275.0 | 2874.6  | 1339.9  |
| 82.5° | 695.6   | 776.9   | 960.9   | 1640.3  | 3562.2  | 4828.9  | 6250.0  | 7178.5  | 3854.5  | 1280.3  | 698.4   |
| 85°   | 349.2   | 370.8   | 541.4   | 958.2   | 2327.9  | 3995.2  | 4352.5  | 4117.1  | 1989.5  | 636.1   | 362.7   |
| 87.5° | 102.9   | 129.9   | 224.7   | 370.8   | 944.7   | 2081.5  | 2422.6  | 2173.6  | 766.0   | 230.1   | 75.8    |
| 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°    | 13412.2 | 13412.2 | 13412.2 | 13412.2 | 13412.2 | 13412.2 | 13412.2 | 13412.2 | 13412.2 | 13412.2 | 13412.2 |
| 2.5°  | 13301.3 | 13252.5 | 13036.0 | 12841.1 | 12662.4 | 12473.0 | 12313.3 | 12172.5 | 12186.0 | 12188.8 | 12045.3 |
| 5°    | 12998.1 | 12887.1 | 12475.7 | 12091.3 | 11766.5 | 11355.1 | 11003.2 | 10775.8 | 10662.1 | 10510.5 | 10564.7 |
| 7.5°  | 12586.7 | 12372.8 | 11801.7 | 11162.9 | 10564.7 | 10031.4 | 9452.2  | 9054.3  | 8799.8  | 8553.5  | 8586.0  |
| 10°   | 12161.7 | 11817.9 | 10986.9 | 10142.4 | 9368.3  | 8515.6  | 7776.7  | 7143.3  | 6672.3  | 6496.3  | 6379.9  |
| 12.5° | 11725.9 | 11273.9 | 10218.2 | 9094.9  | 8025.7  | 7005.2  | 5957.7  | 5278.3  | 4758.6  | 4482.5  | 4517.7  |
| 15°   | 11328.0 | 10778.5 | 9417.0  | 8047.3  | 6658.7  | 5443.4  | 4398.6  | 3751.6  | 3388.9  | 3313.1  | 3356.4  |
| 17.5° | 10959.9 | 10239.9 | 8667.2  | 7029.6  | 5408.2  | 4081.9  | 3305.0  | 2939.6  | 2793.4  | 2752.8  | 2750.1  |
| 20°   | 10580.9 | 9782.4  | 7825.4  | 5941.4  | 4214.5  | 3164.3  | 2712.2  | 2541.7  | 2514.6  | 2530.9  | 2533.6  |
| 22.5° | 10196.5 | 9216.7  | 6959.2  | 4861.4  | 3356.4  | 2587.7  | 2371.2  | 2325.1  | 2346.8  | 2384.7  | 2390.1  |
| 25°   | 9842.0  | 8718.6  | 6125.5  | 3914.0  | 2679.7  | 2273.7  | 2168.2  | 2168.2  | 2216.9  | 2273.7  | 2276.4  |
| 27.5° | 9549.6  | 8236.8  | 5294.5  | 3107.4  | 2243.9  | 2046.3  | 2011.2  | 2030.1  | 2097.8  | 2141.1  | 2143.8  |
| 30°   | 9308.7  | 7787.5  | 4509.5  | 2490.3  | 1973.3  | 1865.0  | 1856.9  | 1889.4  | 1938.1  | 1978.7  | 1981.4  |
| 32.5° | 9127.4  | 7392.3  | 3776.0  | 2092.4  | 1786.5  | 1726.9  | 1724.2  | 1748.6  | 1775.7  | 1786.5  | 1797.3  |
| 35°   | 9057.0  | 7064.8  | 3104.7  | 1840.6  | 1662.0  | 1624.1  | 1624.1  | 1621.4  | 1632.2  | 1637.6  | 1643.0  |
| 37.5° | 9113.8  | 6813.0  | 2585.0  | 1678.2  | 1569.9  | 1542.9  | 1526.6  | 1510.4  | 1505.0  | 1505.0  | 1507.7  |
| 40°   | 9354.7  | 6680.4  | 2197.9  | 1572.7  | 1505.0  | 1464.4  | 1434.6  | 1415.7  | 1396.7  | 1402.1  | 1407.5  |
| 42.5° | 9866.3  | 6704.8  | 1935.4  | 1502.3  | 1448.1  | 1391.3  | 1348.0  | 1326.3  | 1312.8  | 1329.0  | 1326.3  |
| 45°   | 10681.1 | 6948.4  | 1767.5  | 1453.6  | 1391.3  | 1318.2  | 1277.6  | 1256.0  | 1256.0  | 1280.3  | 1288.4  |
| 47.5° | 11820.6 | 7413.9  | 1678.2  | 1415.7  | 1348.0  | 1261.4  | 1220.8  | 1204.5  | 1209.9  | 1250.5  | 1253.3  |
| 50°   | 13211.9 | 8223.3  | 1662.0  | 1396.7  | 1326.3  | 1220.8  | 1174.8  | 1158.5  | 1172.0  | 1215.4  | 1220.8  |
| 52.5° | 14746.7 | 9265.4  | 1740.5  | 1399.4  | 1307.4  | 1196.4  | 1136.9  | 1112.5  | 1126.0  | 1161.2  | 1172.0  |
| 55°   | 16565.7 | 10570.1 | 1943.5  | 1410.2  | 1280.3  | 1182.9  | 1109.8  | 1055.7  | 1071.9  | 1096.3  | 1099.0  |
| 57.5° | 18422.5 | 12215.8 | 2300.8  | 1413.0  | 1258.7  | 1158.5  | 1063.8  | 993.4   | 993.4   | 1009.6  | 1017.8  |
| 60°   | 20690.8 | 14007.7 | 2771.8  | 1415.7  | 1261.4  | 1123.3  | 1001.5  | 923.0   | 912.2   | 920.3   | 923.0   |
| 62.5° | 22942.9 | 15507.3 | 2850.3  | 1407.5  | 1288.4  | 1088.1  | 933.8   | 852.6   | 833.7   | 831.0   | 825.6   |
| 65°   | 23936.3 | 15228.5 | 2336.0  | 1369.6  | 1318.2  | 1066.5  | 879.7   | 785.0   | 752.5   | 741.7   | 741.7   |
| 67.5° | 22317.6 | 12881.7 | 1756.7  | 1318.2  | 1299.3  | 1044.8  | 828.3   | 728.1   | 690.2   | 668.6   | 668.6   |
| 69°   | 20796.4 | 11457.9 | 1578.1  | 1283.0  | 1250.5  | 1009.6  | 795.8   | 698.4   | 652.3   | 628.0   | 619.9   |
| 70°   | 19621.6 | 10478.1 | 1502.3  | 1253.3  | 1204.5  | 969.0   | 771.4   | 676.7   | 625.3   | 598.2   | 592.8   |
| 72.5° | 15658.9 | 8220.6  | 1315.5  | 1139.6  | 1025.9  | 814.7   | 684.8   | 609.0   | 560.3   | 530.5   | 522.4   |
| 75°   | 9024.5  | 4455.4  | 1090.8  | 990.7   | 825.6   | 633.4   | 579.3   | 530.5   | 492.6   | 465.6   | 457.5   |
| 77.5° | 2777.2  | 1721.5  | 790.4   | 782.3   | 606.3   | 489.9   | 462.9   | 443.9   | 416.8   | 387.1   | 381.7   |
| 80°   | 1169.3  | 877.0   | 535.9   | 527.8   | 403.3   | 341.1   | 332.9   | 330.2   | 319.4   | 295.0   | 286.9   |
| 82.5° | 641.5   | 495.3   | 373.5   | 324.8   | 243.6   | 197.6   | 205.7   | 208.4   | 200.3   | 175.9   | 159.7   |
| 85°   | 314.0   | 270.7   | 181.4   | 146.2   | 111.0   | 70.4    | 67.7    | 81.2    | 75.8    | 54.1    | 59.5    |
| 87.5° | 62.3    | 75.8    | 48.7    | 21.7    | 10.8    | 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     | 0.0     |

(END OF REPORT)