

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: P454863

Luminaire Tested: **GLAN-SA6A-730-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454863  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA6A-730-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24939 lumens  
Efficiency: N/A  
Efficacy: 137.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 182  
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

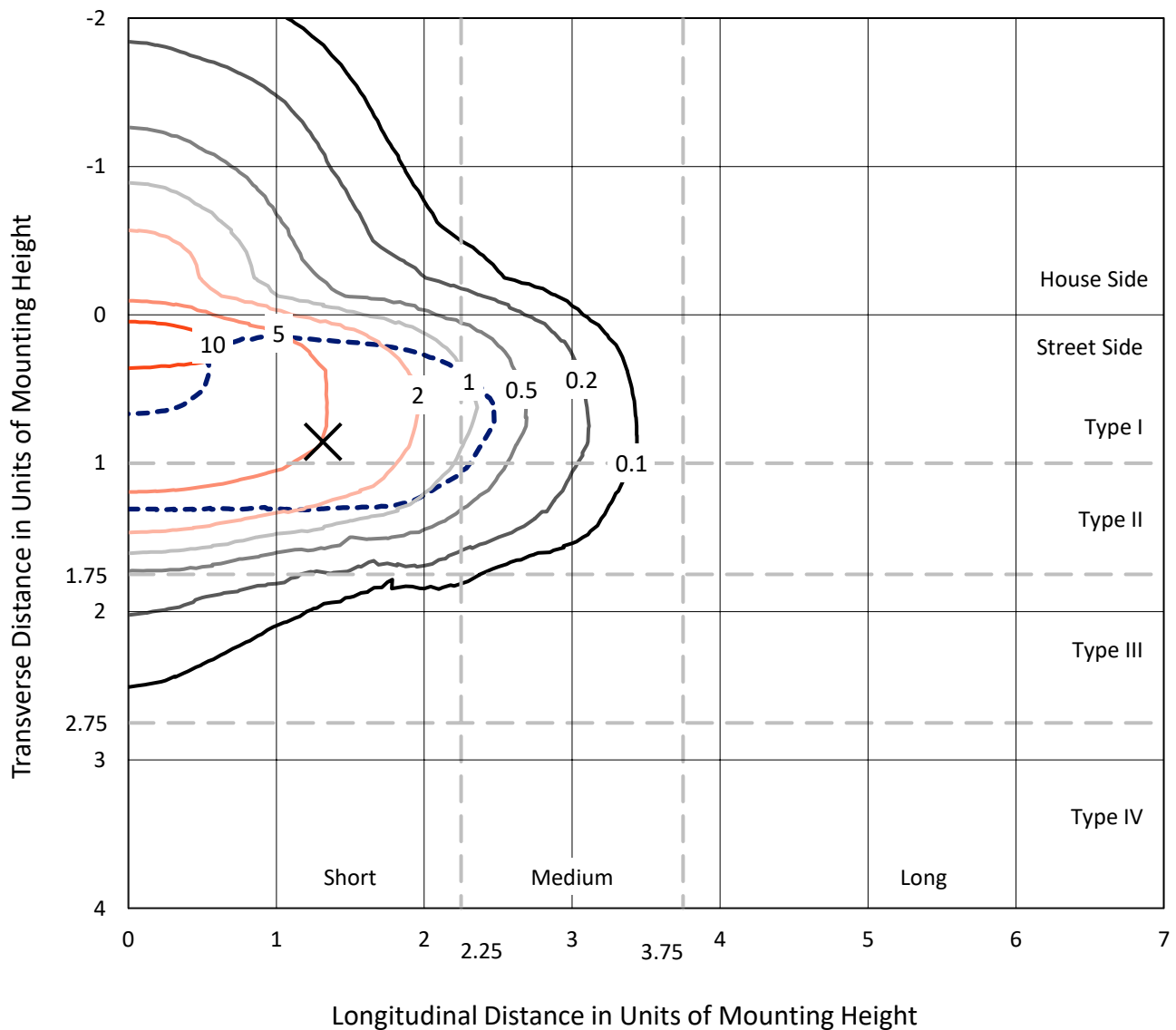


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

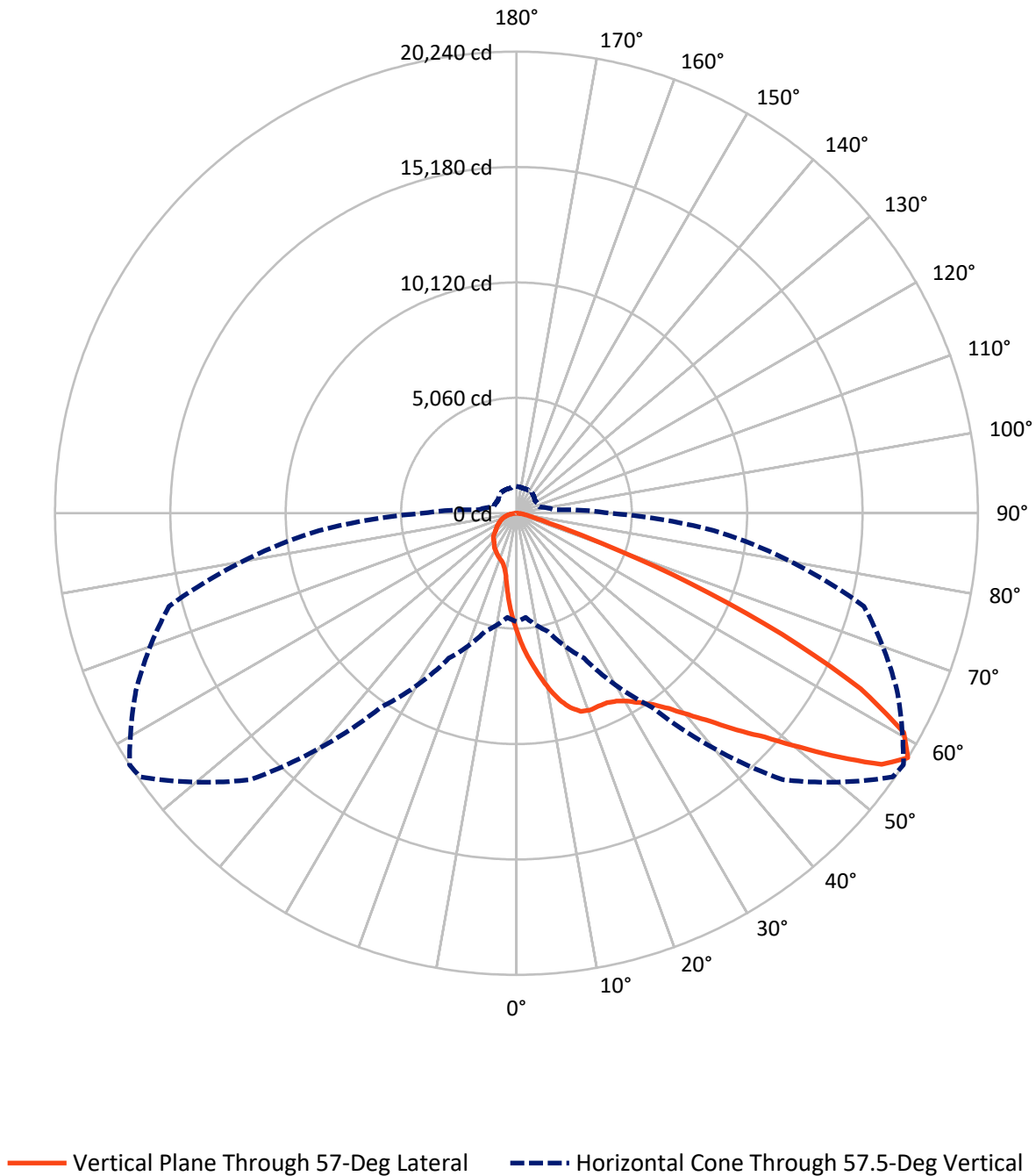


Based on 25 foot mounting height. Maximum calculated value = 12.8 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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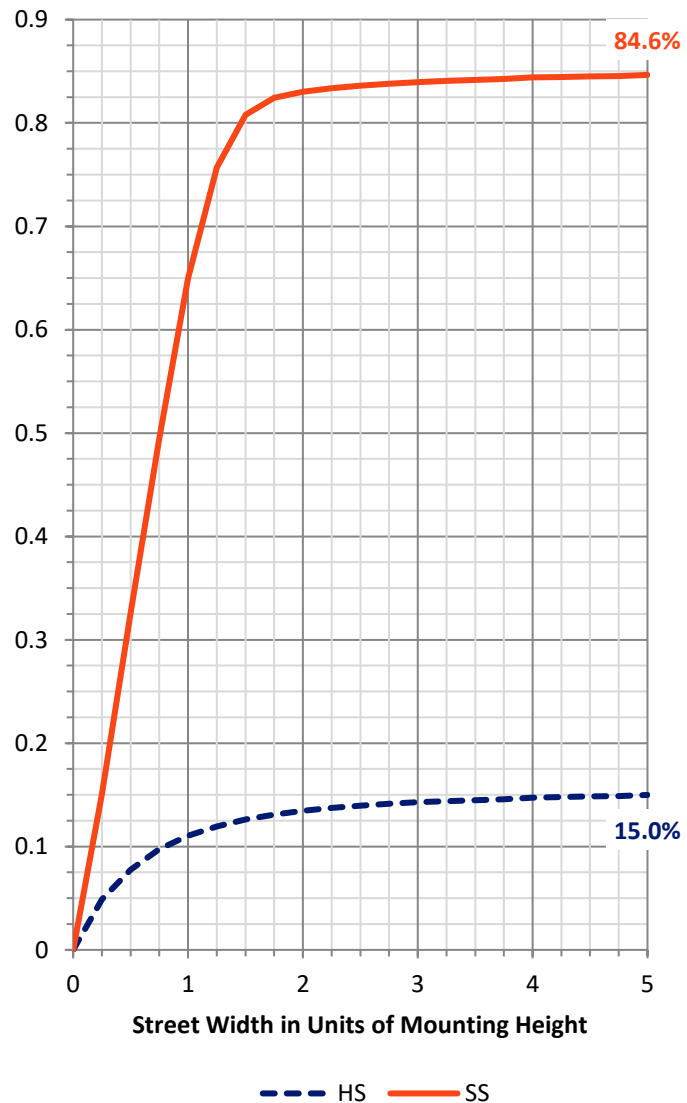
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3792.5   | 0.0    | 3792.5  |
|                    | % Fixture | 15.2     | 0.0    | 15.2    |
| <b>Street Side</b> | Lumens    | 21146.5  | 0.0    | 21146.5 |
|                    | % Fixture | 84.8     | 0.0    | 84.8    |
| <b>Total</b>       | Lumens    | 24939.0  | 0.0    | 24939.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 503.6   | 2.0       |
| 10°-20°   | 1484.0  | 6.0       |
| 20°-30°   | 2464.2  | 9.9       |
| 30°-40°   | 3711.8  | 14.9      |
| 40°-50°   | 5573.0  | 22.3      |
| 50°-60°   | 6246.6  | 25.0      |
| 60°-70°   | 3655.8  | 14.7      |
| 70°-80°   | 1081.4  | 4.3       |
| 80°-90°   | 218.6   | 0.9       |
| 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°    | 24939.0 | 100.0     |
| 0°-180°   | 24939.0 | 100.0     |

**Coefficient of Utilization**



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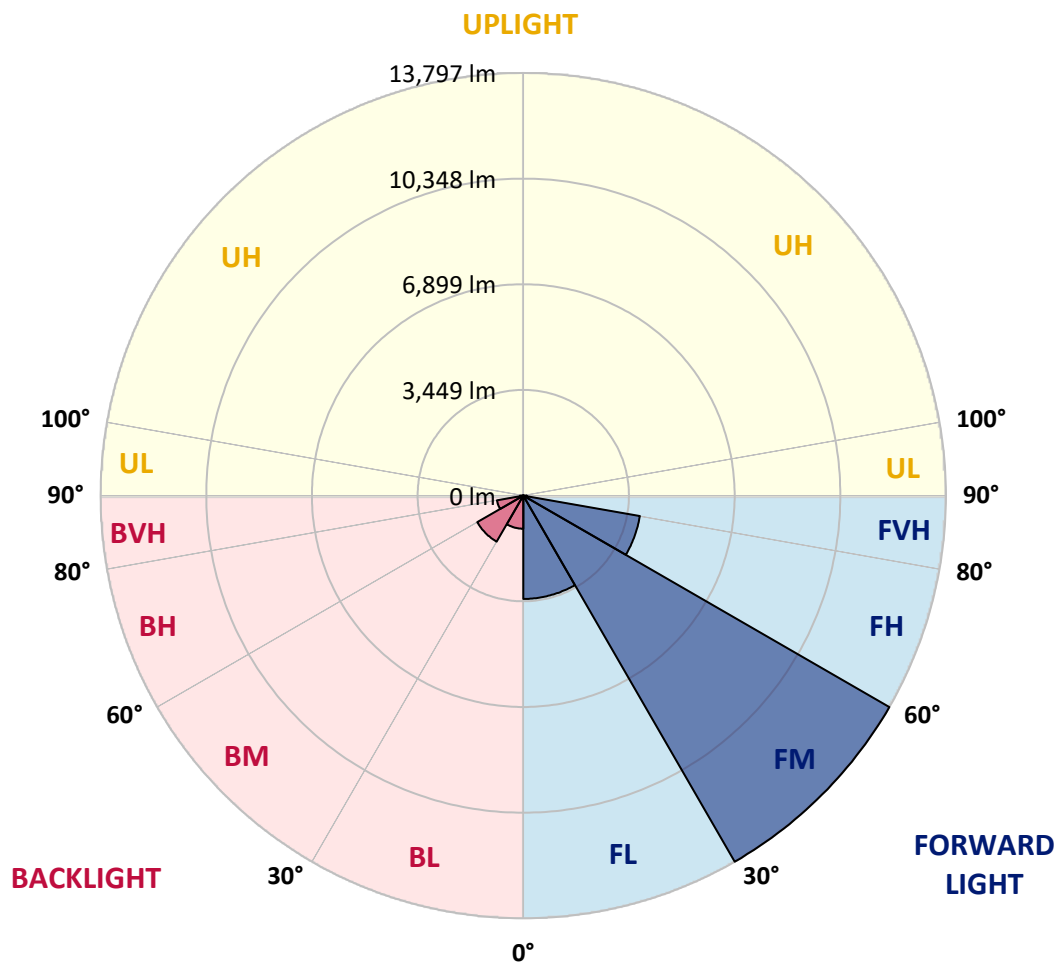
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3371.2  | 13.5      |                         |      |         |
| FM   | (30°-60°)   | 13797.4 | 55.3      |                         |      |         |
| FH   | (60°-80°)   | 3864.5  | 15.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 113.4   | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1080.6  | 4.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1734.1  | 7.0       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 872.6   | 3.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 105.2   | 0.4       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 57°     | 65°     | 75°     | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 5239.4  | 5239.4  | 5239.4  | 5239.4  | 5239.4  | 5239.4  | 5239.4  | 5239.4  | 5239.4  | 5239.4  | 5239.4 |
| 2.5°  | 6510.3  | 6439.4  | 6383.4  | 6334.2  | 6270.1  | 6096.7  | 5923.3  | 5920.6  | 5782.7  | 5569.8  | 5351.3 |
| 5°    | 7571.1  | 7475.5  | 7487.8  | 7334.9  | 7182.0  | 6930.8  | 6563.6  | 6544.5  | 6251.0  | 5852.3  | 5446.9 |
| 7.5°  | 8261.8  | 8263.2  | 8225.0  | 8137.6  | 7972.4  | 7687.1  | 7270.7  | 7176.5  | 6768.4  | 6163.6  | 5556.1 |
| 10°   | 8226.3  | 8263.2  | 8327.3  | 8402.4  | 8452.9  | 8312.3  | 7932.8  | 7818.1  | 7287.1  | 6540.4  | 5677.6 |
| 12.5° | 7754.0  | 7811.3  | 7902.8  | 8091.2  | 8395.6  | 8627.7  | 8498.0  | 8405.2  | 7887.8  | 6915.8  | 5811.4 |
| 15°   | 7459.1  | 7493.2  | 7543.8  | 7670.7  | 7998.3  | 8554.0  | 8889.8  | 8840.6  | 8454.3  | 7340.3  | 5961.6 |
| 17.5° | 7369.0  | 7403.1  | 7419.5  | 7497.3  | 7730.8  | 8300.0  | 9044.0  | 9131.4  | 8956.7  | 7730.8  | 6113.1 |
| 20°   | 7459.1  | 7475.5  | 7475.5  | 7521.9  | 7704.8  | 8151.2  | 9037.2  | 9213.3  | 9368.9  | 8199.0  | 6255.1 |
| 22.5° | 7695.3  | 7702.1  | 7692.6  | 7708.9  | 7845.4  | 8192.2  | 8973.1  | 9191.5  | 9702.0  | 8596.3  | 6365.6 |
| 25°   | 8078.9  | 8089.8  | 8027.0  | 7988.8  | 8088.4  | 8372.4  | 9008.5  | 9209.2  | 9962.8  | 8975.8  | 6439.4 |
| 27.5° | 8514.4  | 8528.0  | 8451.6  | 8362.8  | 8409.2  | 8594.9  | 9147.8  | 9328.0  | 10158.0 | 9349.8  | 6485.8 |
| 30°   | 9048.1  | 9053.6  | 8925.3  | 8818.8  | 8788.8  | 8926.6  | 9385.3  | 9553.2  | 10401.0 | 9790.8  | 6555.4 |
| 32.5° | 9594.2  | 9635.1  | 9470.0  | 9319.8  | 9269.3  | 9311.6  | 9736.2  | 9898.6  | 10690.4 | 10264.5 | 6667.3 |
| 35°   | 10336.8 | 10343.6 | 10145.7 | 9962.8  | 9796.2  | 9850.8  | 10185.3 | 10302.7 | 11090.4 | 10811.9 | 6825.7 |
| 37.5° | 11263.8 | 11326.5 | 11053.5 | 10712.2 | 10507.5 | 10428.3 | 10728.6 | 10856.9 | 11651.5 | 11483.5 | 7064.6 |
| 40°   | 12293.1 | 12316.3 | 12082.8 | 11869.9 | 11495.8 | 11266.5 | 11474.0 | 11613.2 | 12343.6 | 12284.9 | 7341.7 |
| 42.5° | 12940.1 | 12990.7 | 13008.4 | 12986.6 | 12705.3 | 12320.4 | 12399.5 | 12465.1 | 13162.7 | 13037.1 | 7625.7 |
| 45°   | 13158.6 | 13233.6 | 13487.6 | 14025.4 | 14055.5 | 13675.9 | 13491.7 | 13554.5 | 14055.5 | 13796.1 | 7897.3 |
| 47.5° | 12796.8 | 12925.1 | 13393.4 | 14496.4 | 15322.3 | 15351.0 | 14795.4 | 14657.5 | 14869.1 | 14425.4 | 8093.9 |
| 50°   | 11861.7 | 11889.0 | 12605.7 | 14202.9 | 15916.1 | 16952.3 | 16377.6 | 16120.9 | 15641.7 | 14890.9 | 8229.1 |
| 52.5° | 10414.6 | 10446.0 | 11046.7 | 12839.1 | 15550.3 | 18071.7 | 18228.7 | 17770.0 | 16426.7 | 15252.7 | 8317.8 |
| 55°   | 7730.8  | 7912.3  | 8573.1  | 10305.4 | 13816.6 | 17966.6 | 19700.3 | 19439.6 | 17375.5 | 15539.4 | 8457.0 |
| 57.5° | 4753.4  | 4586.9  | 5370.5  | 7011.3  | 10391.4 | 16522.3 | 20154.9 | 20239.5 | 18419.8 | 15779.6 | 8690.5 |
| 60°   | 2187.0  | 2219.7  | 2543.3  | 3616.2  | 6334.2  | 12925.1 | 18983.6 | 19518.7 | 18997.3 | 15771.4 | 8749.2 |
| 62.5° | 1507.1  | 1477.1  | 1395.2  | 1587.7  | 2888.6  | 8174.4  | 16034.9 | 16941.4 | 17839.6 | 15281.4 | 8515.7 |
| 65°   | 1347.4  | 1317.4  | 1159.0  | 1105.8  | 1326.9  | 3563.0  | 11656.9 | 12800.9 | 15020.6 | 14044.5 | 7934.2 |
| 67.5° | 1258.7  | 1217.7  | 1053.9  | 950.1   | 947.4   | 1418.4  | 6873.5  | 8250.9  | 11140.9 | 11874.0 | 6874.8 |
| 70°   | 1165.8  | 1133.1  | 970.6   | 855.9   | 806.8   | 891.4   | 3021.0  | 3954.8  | 7233.9  | 8556.7  | 5355.4 |
| 72.5° | 1073.0  | 1034.8  | 888.7   | 765.8   | 701.7   | 667.6   | 1157.6  | 1505.7  | 4087.2  | 5130.2  | 3283.2 |
| 75°   | 937.8   | 918.7   | 794.5   | 693.5   | 623.9   | 539.2   | 734.4   | 838.2   | 1954.9  | 2356.2  | 1647.7 |
| 77.5° | 820.4   | 800.0   | 705.8   | 606.1   | 555.6   | 438.2   | 521.5   | 569.3   | 824.5   | 955.6   | 744.0  |
| 80°   | 600.7   | 621.1   | 595.2   | 535.1   | 495.5   | 344.0   | 350.8   | 390.4   | 490.1   | 542.0   | 454.6  |
| 82.5° | 380.9   | 419.1   | 458.7   | 412.3   | 375.4   | 271.7   | 243.0   | 258.0   | 334.5   | 354.9   | 202.0  |
| 85°   | 159.7   | 162.5   | 266.2   | 251.2   | 214.3   | 161.1   | 146.1   | 154.3   | 178.8   | 187.0   | 94.2   |
| 87.5° | 61.4    | 60.1    | 94.2    | 87.4    | 66.9    | 46.4    | 46.4    | 51.9    | 71.0    | 65.5    | 30.0   |
| 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°    | 5239.4 | 5239.4 | 5239.4 | 5239.4 | 5239.4 | 5239.4 | 5239.4 | 5239.4 | 5239.4 | 5239.4 | 5239.4 |
| 2.5°  | 5257.1 | 5160.2 | 4967.7 | 4728.8 | 4554.1 | 4357.5 | 4184.1 | 4059.9 | 4013.5 | 3991.7 | 3950.7 |
| 5°    | 5253.0 | 5061.9 | 4663.3 | 4245.6 | 3909.8 | 3565.7 | 3275.0 | 3086.6 | 3070.2 | 2944.6 | 2932.3 |
| 7.5°  | 5254.4 | 4962.3 | 4327.5 | 3713.2 | 3201.2 | 2849.0 | 2608.8 | 2546.0 | 2470.9 | 2451.8 | 2461.3 |
| 10°   | 5258.5 | 4835.3 | 3967.1 | 3186.2 | 2690.7 | 2460.0 | 2369.9 | 2345.3 | 2348.0 | 2356.2 | 2357.6 |
| 12.5° | 5264.0 | 4712.5 | 3593.0 | 2786.2 | 2404.0 | 2308.4 | 2298.9 | 2320.7 | 2343.9 | 2361.7 | 2365.8 |
| 15°   | 5270.8 | 4571.8 | 3228.6 | 2464.1 | 2260.7 | 2252.5 | 2283.9 | 2320.7 | 2353.5 | 2379.4 | 2383.5 |
| 17.5° | 5262.6 | 4408.0 | 2922.8 | 2266.1 | 2181.5 | 2221.1 | 2273.0 | 2319.4 | 2349.4 | 2374.0 | 2376.7 |
| 20°   | 5243.5 | 4225.1 | 2627.9 | 2126.9 | 2132.3 | 2196.5 | 2252.5 | 2296.2 | 2328.9 | 2341.2 | 2350.8 |
| 22.5° | 5169.8 | 4006.7 | 2371.2 | 2019.0 | 2073.6 | 2162.4 | 2229.3 | 2255.2 | 2218.3 | 2192.4 | 2199.2 |
| 25°   | 5044.2 | 3722.7 | 2132.3 | 1931.7 | 2020.4 | 2114.6 | 2182.9 | 2120.1 | 2090.0 | 2079.1 | 2084.6 |
| 27.5° | 4887.2 | 3411.5 | 1952.1 | 1840.2 | 1952.1 | 2061.4 | 2042.2 | 2031.3 | 2017.7 | 1999.9 | 2004.0 |
| 30°   | 4717.9 | 3107.1 | 1799.3 | 1769.2 | 1878.4 | 1941.2 | 1949.4 | 1967.2 | 1952.1 | 1924.8 | 1935.8 |
| 32.5° | 4560.9 | 2820.4 | 1683.2 | 1709.2 | 1826.6 | 1817.0 | 1878.4 | 1898.9 | 1829.3 | 1737.8 | 1741.9 |
| 35°   | 4427.1 | 2554.2 | 1595.8 | 1650.5 | 1737.8 | 1741.9 | 1803.3 | 1732.4 | 1657.3 | 1613.6 | 1616.3 |
| 37.5° | 4326.1 | 2346.7 | 1538.5 | 1599.9 | 1624.5 | 1676.4 | 1643.6 | 1606.8 | 1597.2 | 1567.2 | 1568.5 |
| 40°   | 4266.1 | 2165.1 | 1501.7 | 1560.4 | 1556.3 | 1591.8 | 1486.6 | 1523.5 | 1537.1 | 1527.6 | 1529.0 |
| 42.5° | 4206.0 | 2036.8 | 1463.4 | 1505.7 | 1504.4 | 1434.8 | 1411.6 | 1443.0 | 1478.4 | 1482.5 | 1479.8 |
| 45°   | 4158.2 | 1937.1 | 1423.8 | 1422.5 | 1449.8 | 1340.6 | 1333.7 | 1352.9 | 1403.4 | 1427.9 | 1426.6 |
| 47.5° | 4105.0 | 1853.9 | 1363.8 | 1325.5 | 1333.7 | 1281.9 | 1270.9 | 1279.1 | 1340.6 | 1380.2 | 1391.1 |
| 50°   | 4038.1 | 1770.6 | 1288.7 | 1236.8 | 1202.7 | 1227.3 | 1230.0 | 1231.4 | 1292.8 | 1337.8 | 1347.4 |
| 52.5° | 3984.8 | 1707.8 | 1202.7 | 1164.5 | 1123.5 | 1178.1 | 1198.6 | 1201.3 | 1238.2 | 1275.0 | 1281.9 |
| 55°   | 4016.2 | 1672.3 | 1118.0 | 1090.7 | 1053.9 | 1127.6 | 1167.2 | 1172.7 | 1180.8 | 1208.1 | 1212.2 |
| 57.5° | 4110.4 | 1680.5 | 1049.8 | 1014.3 | 987.0  | 1067.5 | 1134.4 | 1138.5 | 1133.1 | 1165.8 | 1171.3 |
| 60°   | 4139.1 | 1676.4 | 999.3  | 929.7  | 913.3  | 1003.4 | 1086.6 | 1094.8 | 1093.5 | 1141.3 | 1150.8 |
| 62.5° | 4019.0 | 1624.5 | 948.8  | 858.7  | 847.8  | 937.8  | 1019.8 | 1052.5 | 1059.3 | 1127.6 | 1139.9 |
| 65°   | 3736.4 | 1518.0 | 881.9  | 783.6  | 783.6  | 868.2  | 955.6  | 1000.6 | 1019.8 | 1111.2 | 1124.9 |
| 67.5° | 3363.7 | 1392.4 | 813.6  | 719.4  | 716.7  | 801.3  | 887.3  | 933.8  | 963.8  | 1088.0 | 1096.2 |
| 70°   | 2791.7 | 1223.2 | 729.0  | 649.8  | 649.8  | 726.3  | 804.1  | 860.0  | 903.7  | 1044.3 | 1044.3 |
| 72.5° | 1912.6 | 1017.0 | 626.6  | 570.6  | 572.0  | 643.0  | 722.2  | 785.0  | 836.8  | 957.0  | 959.7  |
| 75°   | 1209.5 | 794.5  | 514.7  | 486.0  | 491.4  | 558.3  | 640.2  | 705.8  | 809.5  | 946.0  | 950.1  |
| 77.5° | 643.0  | 558.3  | 409.5  | 402.7  | 409.5  | 471.0  | 562.4  | 652.5  | 812.3  | 820.4  | 806.8  |
| 80°   | 416.4  | 395.9  | 323.5  | 309.9  | 312.6  | 379.5  | 501.0  | 619.8  | 652.5  | 660.7  | 630.7  |
| 82.5° | 226.6  | 251.2  | 229.3  | 215.7  | 215.7  | 296.2  | 427.3  | 492.8  | 468.2  | 389.1  | 371.3  |
| 85°   | 96.9   | 117.4  | 118.8  | 103.8  | 99.7   | 182.9  | 286.7  | 268.9  | 249.8  | 238.9  | 236.2  |
| 87.5° | 27.3   | 38.2   | 38.2   | 28.7   | 21.8   | 50.5   | 57.3   | 16.4   | 0.0    | 1.4    | 2.7    |
| 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)