

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: P320940

Luminaire Tested: **GAN-SA6D-730-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320940  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA6D-730-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43357 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

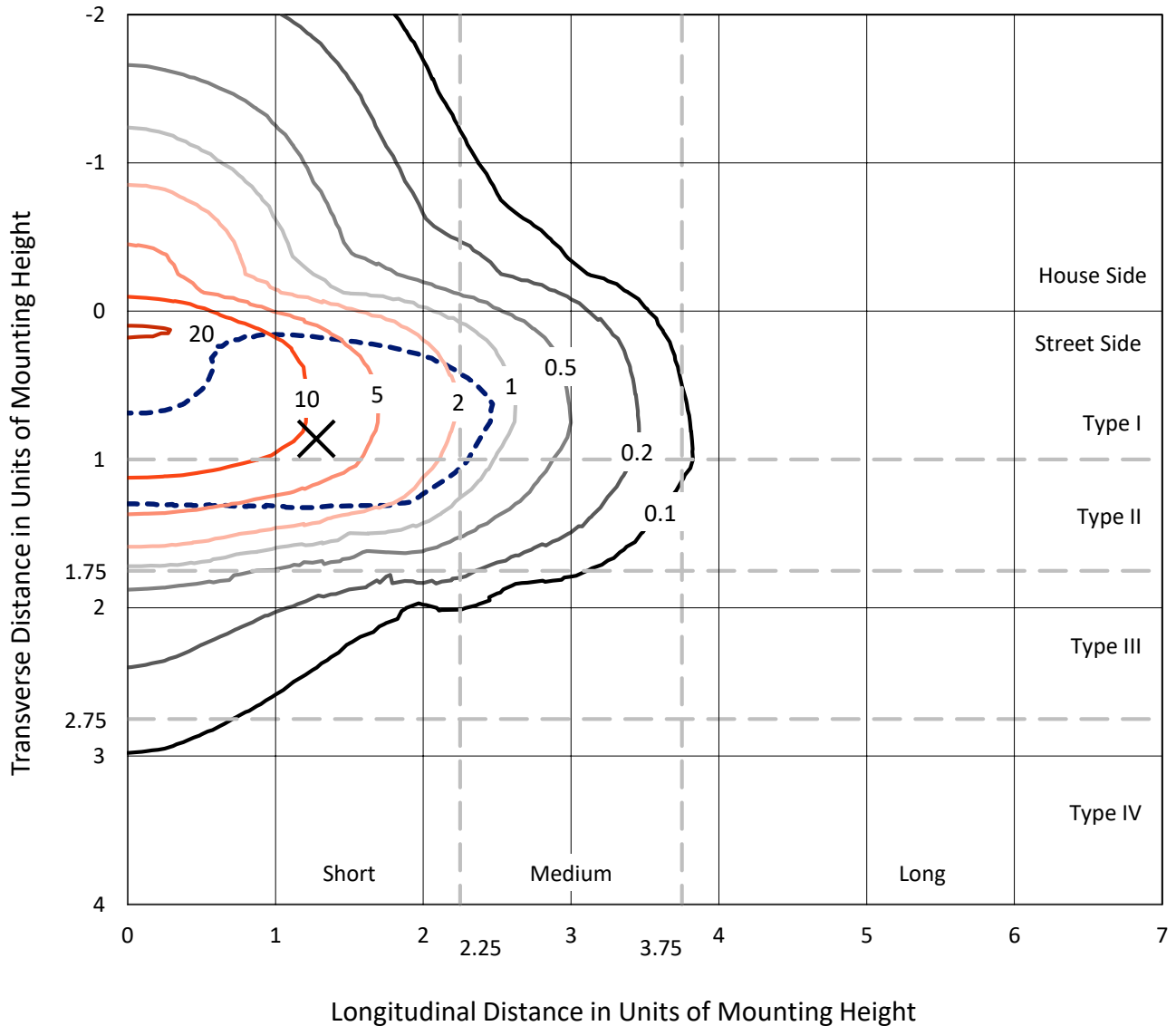
Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

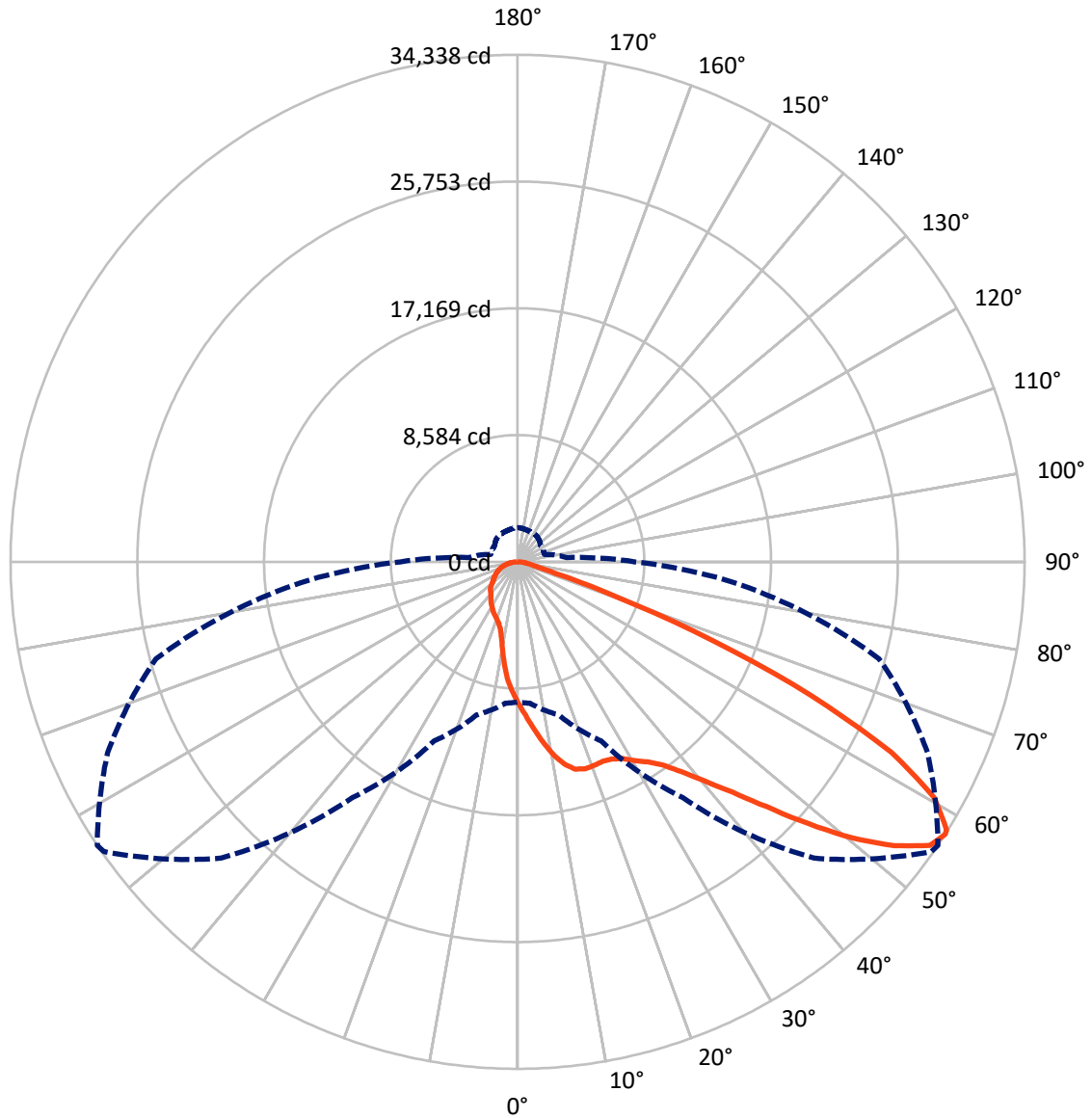
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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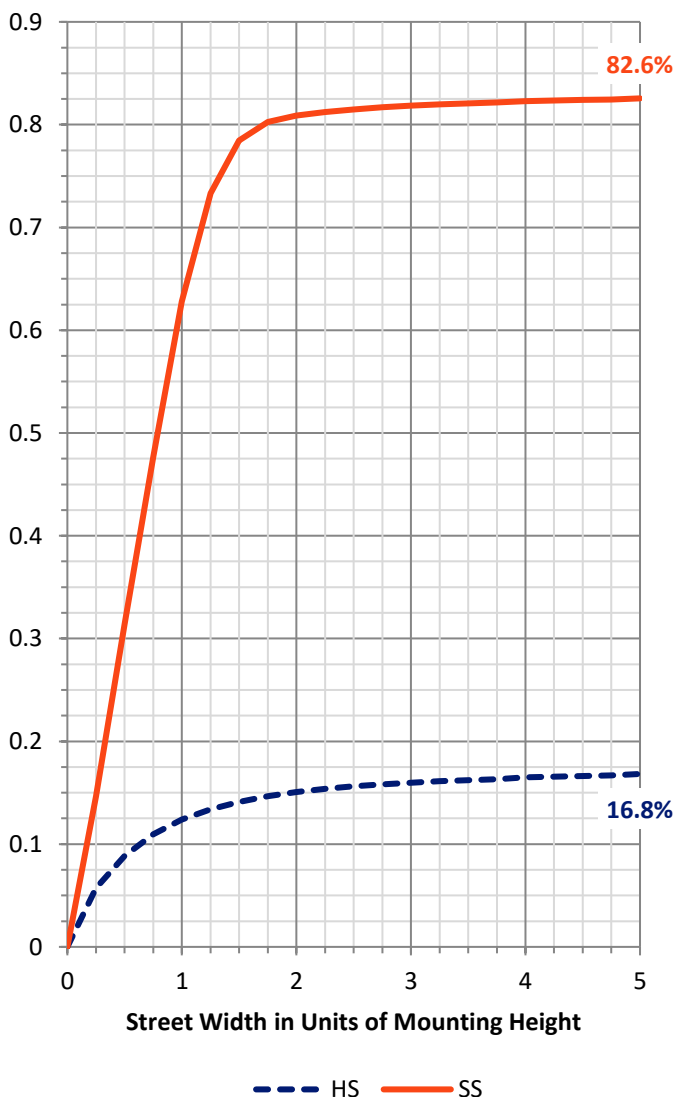
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7473.8   | 0.0    | 7473.8  |
|                    | % Fixture | 17.2     | 0.0    | 17.2    |
| <b>Street Side</b> | Lumens    | 35883.2  | 0.0    | 35883.2 |
|                    | % Fixture | 82.8     | 0.0    | 82.8    |
| <b>Total</b>       | Lumens    | 43357.0  | 0.0    | 43357.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 918.6   | 2.1       |
| 10°-20°   | 2597.2  | 6.0       |
| 20°-30°   | 4230.3  | 9.8       |
| 30°-40°   | 6323.8  | 14.6      |
| 40°-50°   | 9591.9  | 22.1      |
| 50°-60°   | 10750.8 | 24.8      |
| 60°-70°   | 6349.9  | 14.6      |
| 70°-80°   | 2080.5  | 4.8       |
| 80°-90°   | 514.0   | 1.2       |
| 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°    | 43357.0 | 100.0     |
| 0°-180°   | 43357.0 | 100.0     |

**Coefficient of Utilization**

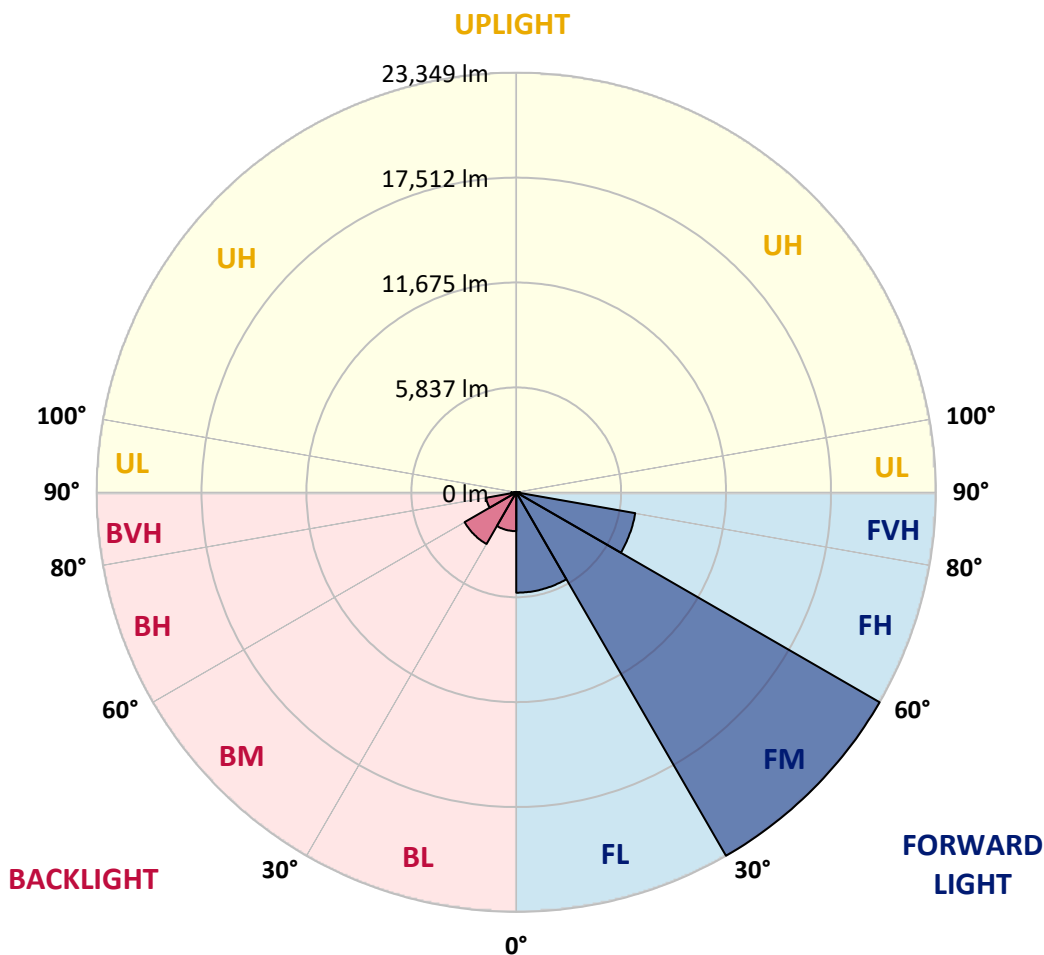


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 5585.0  | 12.9      |                         |      |         |
| FM (30°-60°)   | 23349.2 | 53.9      |                         |      |         |
| FH (60°-80°)   | 6722.6  | 15.5      |                         |      | G3/7500 |
| FVH (80°-90°)  | 226.3   | 0.5       |                         |      | G3/500  |
| BL (0°-30°)    | 2161.1  | 5.0       | B3/2500                 |      |         |
| BM (30°-60°)   | 3317.4  | 7.7       | B3/5000                 |      |         |
| BH (60°-80°)   | 1707.7  | 3.9       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 287.7   | 0.7       |                         |      | G3/500  |
| 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 Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9616.6  | 9616.6  | 9616.6  | 9616.6  | 9616.6  | 9616.6  | 9616.6  | 9616.6  | 9616.6  | 9616.6  | 9616.6  |
| 2.5°  | 11042.6 | 11143.9 | 11099.2 | 10944.2 | 10825.0 | 10656.7 | 10468.9 | 10412.3 | 10214.1 | 9992.1  | 9725.4  |
| 5°    | 12790.4 | 12739.7 | 12666.7 | 12425.3 | 12170.5 | 11874.0 | 11403.2 | 11328.7 | 10887.6 | 10385.5 | 9855.0  |
| 7.5°  | 13785.7 | 13781.2 | 13738.0 | 13596.5 | 13364.0 | 12976.6 | 12408.9 | 12321.0 | 11655.0 | 10847.4 | 10024.9 |
| 10°   | 13641.2 | 13630.7 | 13702.3 | 13849.8 | 13919.8 | 13839.4 | 13361.1 | 13273.1 | 12455.1 | 11358.5 | 10221.6 |
| 12.5° | 12820.2 | 12826.1 | 12940.9 | 13250.8 | 13672.5 | 14179.1 | 14101.6 | 14058.4 | 13285.1 | 11936.6 | 10460.0 |
| 15°   | 12181.0 | 12194.4 | 12285.3 | 12555.0 | 13052.6 | 13972.0 | 14551.6 | 14566.5 | 14088.2 | 12574.3 | 10738.6 |
| 17.5° | 11900.8 | 11929.1 | 11970.9 | 12160.1 | 12616.0 | 13559.2 | 14658.9 | 14739.3 | 14791.5 | 13235.9 | 11006.8 |
| 20°   | 11990.2 | 12017.1 | 12029.0 | 12149.7 | 12523.7 | 13308.9 | 14584.4 | 14728.9 | 15330.9 | 13858.7 | 11275.0 |
| 22.5° | 12391.0 | 12407.4 | 12414.9 | 12446.2 | 12736.7 | 13380.4 | 14535.2 | 14687.2 | 15721.3 | 14417.5 | 11477.7 |
| 25°   | 13055.6 | 13043.7 | 12996.0 | 12955.8 | 13151.0 | 13663.5 | 14648.4 | 14793.0 | 16038.6 | 14924.1 | 11610.3 |
| 27.5° | 13851.3 | 13836.4 | 13744.0 | 13633.7 | 13745.5 | 14104.6 | 14974.8 | 15089.5 | 16323.2 | 15397.9 | 11677.3 |
| 30°   | 14806.4 | 14767.6 | 14593.3 | 14462.2 | 14505.4 | 14766.1 | 15512.7 | 15617.0 | 16762.8 | 15935.8 | 11742.9 |
| 32.5° | 15910.5 | 15868.8 | 15617.0 | 15399.4 | 15399.4 | 15617.0 | 16066.9 | 16153.4 | 17135.3 | 16543.7 | 11848.7 |
| 35°   | 17293.2 | 17241.1 | 16913.3 | 16548.2 | 16445.4 | 16555.7 | 16822.4 | 16883.5 | 17805.8 | 17309.6 | 12040.9 |
| 37.5° | 18923.3 | 18853.3 | 18428.6 | 17939.9 | 17714.9 | 17708.9 | 17901.2 | 18026.3 | 18877.1 | 18315.4 | 12367.2 |
| 40°   | 20557.9 | 20508.7 | 20137.7 | 19753.3 | 19312.2 | 19170.7 | 19467.2 | 19505.9 | 20277.8 | 19564.0 | 12784.4 |
| 42.5° | 21821.4 | 21812.5 | 21743.9 | 21794.6 | 21343.1 | 21057.0 | 21289.5 | 21320.8 | 21988.3 | 20915.5 | 13228.4 |
| 45°   | 22488.9 | 22503.8 | 22836.1 | 23572.2 | 23739.1 | 23530.5 | 23645.2 | 23654.1 | 23943.2 | 22278.9 | 13635.2 |
| 47.5° | 21954.0 | 22031.5 | 22871.9 | 24518.4 | 25884.7 | 26577.6 | 26386.9 | 26497.1 | 25838.5 | 23450.0 | 13954.1 |
| 50°   | 19869.5 | 19964.8 | 21395.3 | 24096.7 | 26886.0 | 29526.3 | 29426.5 | 29401.2 | 27367.3 | 24308.3 | 14126.9 |
| 52.5° | 17287.3 | 17361.8 | 18541.9 | 21904.9 | 26151.4 | 31156.4 | 32072.8 | 31941.7 | 28726.2 | 24950.5 | 14159.7 |
| 55°   | 13355.1 | 13471.3 | 14602.2 | 17530.1 | 23180.3 | 30533.6 | 34018.8 | 33901.1 | 29964.4 | 25287.2 | 14121.0 |
| 57°   | 9494.4  | 9616.6  | 10740.1 | 13378.9 | 19500.0 | 28377.5 | 34212.5 | 34337.6 | 30633.4 | 25343.8 | 14164.2 |
| 57.5° | 8472.3  | 8597.4  | 9710.5  | 12273.3 | 18352.6 | 27598.2 | 34045.6 | 34254.2 | 30754.1 | 25334.9 | 14188.0 |
| 60°   | 4265.9  | 4313.6  | 5022.9  | 6851.1  | 11601.3 | 22311.6 | 31868.7 | 32406.6 | 30862.9 | 24896.8 | 14290.8 |
| 62.5° | 2652.2  | 2618.0  | 2595.6  | 3155.9  | 5644.2  | 14795.9 | 27376.2 | 28411.8 | 28781.3 | 23835.9 | 14042.0 |
| 65°   | 2331.9  | 2267.8  | 2022.0  | 1977.3  | 2492.8  | 7186.4  | 20616.0 | 21904.9 | 24333.6 | 22164.1 | 13449.0 |
| 67.5° | 2190.3  | 2127.8  | 1850.6  | 1683.7  | 1685.2  | 2848.9  | 12799.3 | 14250.6 | 18956.1 | 19337.5 | 12049.8 |
| 70°   | 2044.3  | 1987.7  | 1728.4  | 1531.7  | 1434.9  | 1577.9  | 5888.6  | 6989.7  | 12356.8 | 15199.7 | 10071.1 |
| 72.5° | 1856.6  | 1817.8  | 1572.0  | 1369.3  | 1266.5  | 1181.6  | 2254.4  | 2662.7  | 7153.6  | 10208.2 | 6994.2  |
| 75°   | 1659.9  | 1624.1  | 1414.0  | 1220.3  | 1095.2  | 929.8   | 1269.5  | 1367.8  | 3634.2  | 5222.5  | 3443.4  |
| 77.5° | 1443.8  | 1423.0  | 1257.6  | 1078.8  | 978.9   | 770.3   | 898.5   | 946.2   | 1558.6  | 2239.5  | 1726.9  |
| 80°   | 1148.8  | 1189.0  | 1099.6  | 961.1   | 868.7   | 616.9   | 636.2   | 667.5   | 907.4   | 1093.7  | 980.4   |
| 82.5° | 748.0   | 818.0   | 861.2   | 780.8   | 715.2   | 485.7   | 457.4   | 470.8   | 591.5   | 667.5   | 426.1   |
| 85°   | 311.4   | 350.2   | 566.2   | 511.1   | 475.3   | 354.6   | 306.9   | 312.9   | 366.5   | 380.0   | 174.3   |
| 87.5° | 138.6   | 147.5   | 248.8   | 233.9   | 201.2   | 122.2   | 131.1   | 143.0   | 195.2   | 184.8   | 67.1    |
| 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°    | 9616.6 | 9616.6 | 9616.6 | 9616.6 | 9616.6 | 9616.6 | 9616.6 | 9616.6 | 9616.6 | 9616.6 | 9616.6 |
| 2.5°  | 9625.6 | 9500.4 | 9285.8 | 9048.9 | 8855.2 | 8700.3 | 8543.8 | 8436.5 | 8311.4 | 8244.3 | 8210.0 |
| 5°    | 9633.0 | 9387.2 | 8935.7 | 8472.3 | 8058.1 | 7679.6 | 7319.0 | 7041.9 | 6782.6 | 6642.5 | 6603.8 |
| 7.5°  | 9664.3 | 9294.8 | 8564.7 | 7801.8 | 7065.7 | 6393.7 | 5875.2 | 5550.3 | 5316.4 | 5212.1 | 5182.3 |
| 10°   | 9689.6 | 9186.0 | 8105.7 | 6976.3 | 5975.0 | 5294.1 | 4891.8 | 4710.0 | 4629.5 | 4616.1 | 4602.7 |
| 12.5° | 9749.2 | 9074.3 | 7623.0 | 6115.1 | 5127.2 | 4656.3 | 4516.3 | 4504.3 | 4526.7 | 4559.5 | 4559.5 |
| 15°   | 9843.1 | 8964.0 | 7071.7 | 5376.0 | 4587.8 | 4422.4 | 4450.7 | 4516.3 | 4577.4 | 4628.0 | 4635.5 |
| 17.5° | 9911.6 | 8828.4 | 6478.6 | 4784.5 | 4300.2 | 4344.9 | 4446.2 | 4538.6 | 4601.2 | 4650.4 | 4654.8 |
| 20°   | 9960.8 | 8618.3 | 5845.4 | 4333.0 | 4134.8 | 4273.4 | 4400.0 | 4482.0 | 4525.2 | 4574.4 | 4581.8 |
| 22.5° | 9935.5 | 8336.7 | 5283.6 | 4009.7 | 4000.7 | 4169.1 | 4289.8 | 4388.1 | 4355.3 | 4307.7 | 4339.0 |
| 25°   | 9813.3 | 7949.3 | 4705.5 | 3768.3 | 3859.2 | 4029.0 | 4178.0 | 4112.5 | 4002.2 | 3981.3 | 3993.3 |
| 27.5° | 9595.8 | 7454.6 | 4170.6 | 3544.8 | 3695.3 | 3899.4 | 3890.5 | 3824.9 | 3786.2 | 3759.3 | 3775.7 |
| 30°   | 9361.8 | 6918.2 | 3702.7 | 3349.6 | 3513.5 | 3681.9 | 3647.6 | 3646.1 | 3607.4 | 3564.1 | 3585.0 |
| 32.5° | 9130.9 | 6378.8 | 3331.7 | 3188.7 | 3376.4 | 3398.7 | 3473.2 | 3495.6 | 3419.6 | 3328.7 | 3322.8 |
| 35°   | 8929.7 | 5869.2 | 3050.1 | 3042.6 | 3211.0 | 3214.0 | 3322.8 | 3291.5 | 3102.2 | 3008.4 | 3008.4 |
| 37.5° | 8779.2 | 5361.1 | 2835.5 | 2911.5 | 2993.5 | 3070.9 | 3126.1 | 2996.4 | 2965.1 | 2913.0 | 2911.5 |
| 40°   | 8713.7 | 4914.1 | 2701.4 | 2811.7 | 2840.0 | 2938.3 | 2796.8 | 2847.4 | 2862.3 | 2835.5 | 2835.5 |
| 42.5° | 8645.1 | 4525.2 | 2585.2 | 2735.7 | 2731.2 | 2717.8 | 2646.3 | 2711.8 | 2771.4 | 2772.9 | 2768.5 |
| 45°   | 8576.6 | 4190.0 | 2482.4 | 2573.3 | 2635.9 | 2491.3 | 2504.7 | 2574.8 | 2658.2 | 2688.0 | 2688.0 |
| 47.5° | 8500.6 | 3924.7 | 2388.5 | 2401.9 | 2498.8 | 2401.9 | 2391.5 | 2445.1 | 2543.5 | 2591.2 | 2601.6 |
| 50°   | 8333.7 | 3686.3 | 2281.2 | 2251.4 | 2278.2 | 2311.0 | 2320.0 | 2345.3 | 2454.1 | 2530.1 | 2547.9 |
| 52.5° | 8102.8 | 3473.2 | 2144.1 | 2112.9 | 2112.9 | 2236.5 | 2278.2 | 2285.7 | 2378.1 | 2469.0 | 2486.9 |
| 55°   | 7910.5 | 3337.7 | 2002.6 | 1996.6 | 1990.7 | 2157.6 | 2229.1 | 2241.0 | 2305.1 | 2376.6 | 2385.5 |
| 57°   | 7924.0 | 3327.2 | 1893.8 | 1899.8 | 1898.3 | 2077.1 | 2182.9 | 2208.2 | 2241.0 | 2302.1 | 2312.5 |
| 57.5° | 7931.4 | 3334.7 | 1870.0 | 1873.0 | 1871.5 | 2054.7 | 2169.5 | 2197.8 | 2223.1 | 2287.2 | 2297.6 |
| 60°   | 8043.2 | 3354.0 | 1773.1 | 1740.3 | 1747.8 | 1935.5 | 2093.5 | 2129.2 | 2145.6 | 2230.6 | 2244.0 |
| 62.5° | 7877.8 | 3267.6 | 1695.6 | 1616.7 | 1616.7 | 1810.4 | 1987.7 | 2044.3 | 2069.6 | 2184.4 | 2206.7 |
| 65°   | 7398.0 | 3024.8 | 1604.8 | 1476.6 | 1491.5 | 1685.2 | 1861.0 | 1953.4 | 1992.2 | 2135.2 | 2159.0 |
| 67.5° | 6657.4 | 2743.1 | 1507.9 | 1351.5 | 1366.4 | 1554.1 | 1729.9 | 1829.8 | 1890.8 | 2081.6 | 2100.9 |
| 70°   | 5693.4 | 2398.9 | 1376.8 | 1218.8 | 1236.7 | 1411.1 | 1575.0 | 1688.2 | 1779.1 | 2030.9 | 2036.9 |
| 72.5° | 4197.4 | 1966.8 | 1193.5 | 1072.8 | 1092.2 | 1244.2 | 1418.5 | 1549.6 | 1671.8 | 1904.3 | 1901.3 |
| 75°   | 2495.8 | 1537.7 | 990.9  | 925.3  | 938.7  | 1080.3 | 1277.0 | 1436.4 | 1619.7 | 1855.1 | 1883.4 |
| 77.5° | 1513.9 | 1157.7 | 807.6  | 774.8  | 791.2  | 935.7  | 1175.6 | 1345.5 | 1597.3 | 1749.3 | 1740.3 |
| 80°   | 914.9  | 827.0  | 645.2  | 624.3  | 640.7  | 800.1  | 1087.7 | 1277.0 | 1396.2 | 1494.5 | 1494.5 |
| 82.5° | 478.3  | 505.1  | 473.8  | 457.4  | 479.8  | 649.7  | 989.4  | 1114.5 | 1233.7 | 1059.4 | 989.4  |
| 85°   | 195.2  | 263.7  | 287.6  | 286.1  | 299.5  | 450.0  | 853.8  | 953.6  | 795.7  | 755.4  | 773.3  |
| 87.5° | 65.6   | 111.8  | 140.1  | 120.7  | 126.7  | 283.1  | 591.5  | 460.4  | 546.8  | 381.4  | 362.1  |
| 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)