

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: P317704

Luminaire Tested: **GAN-SA0D-727-U-T3R**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P317704  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0D-727-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 65667 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5

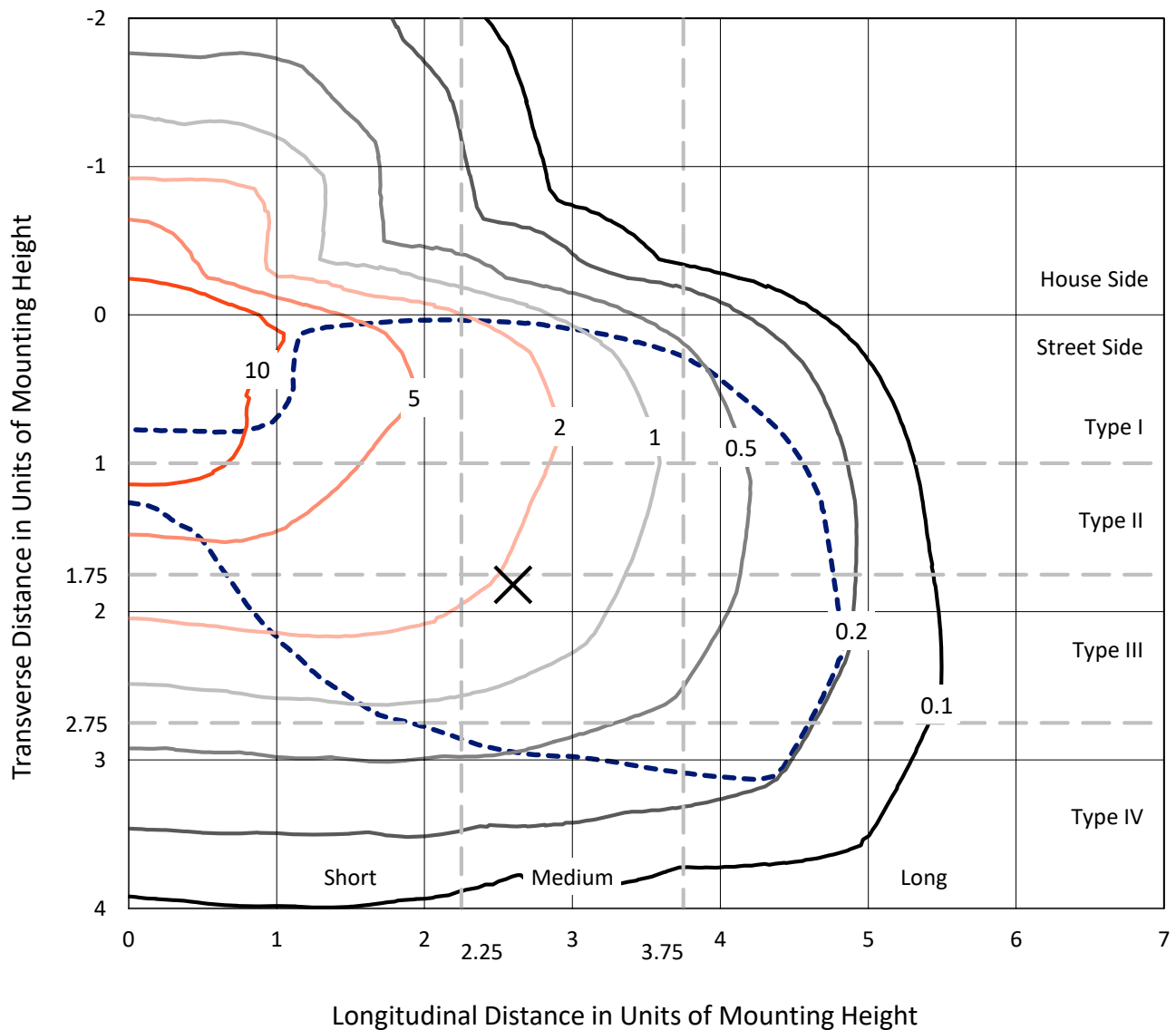
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

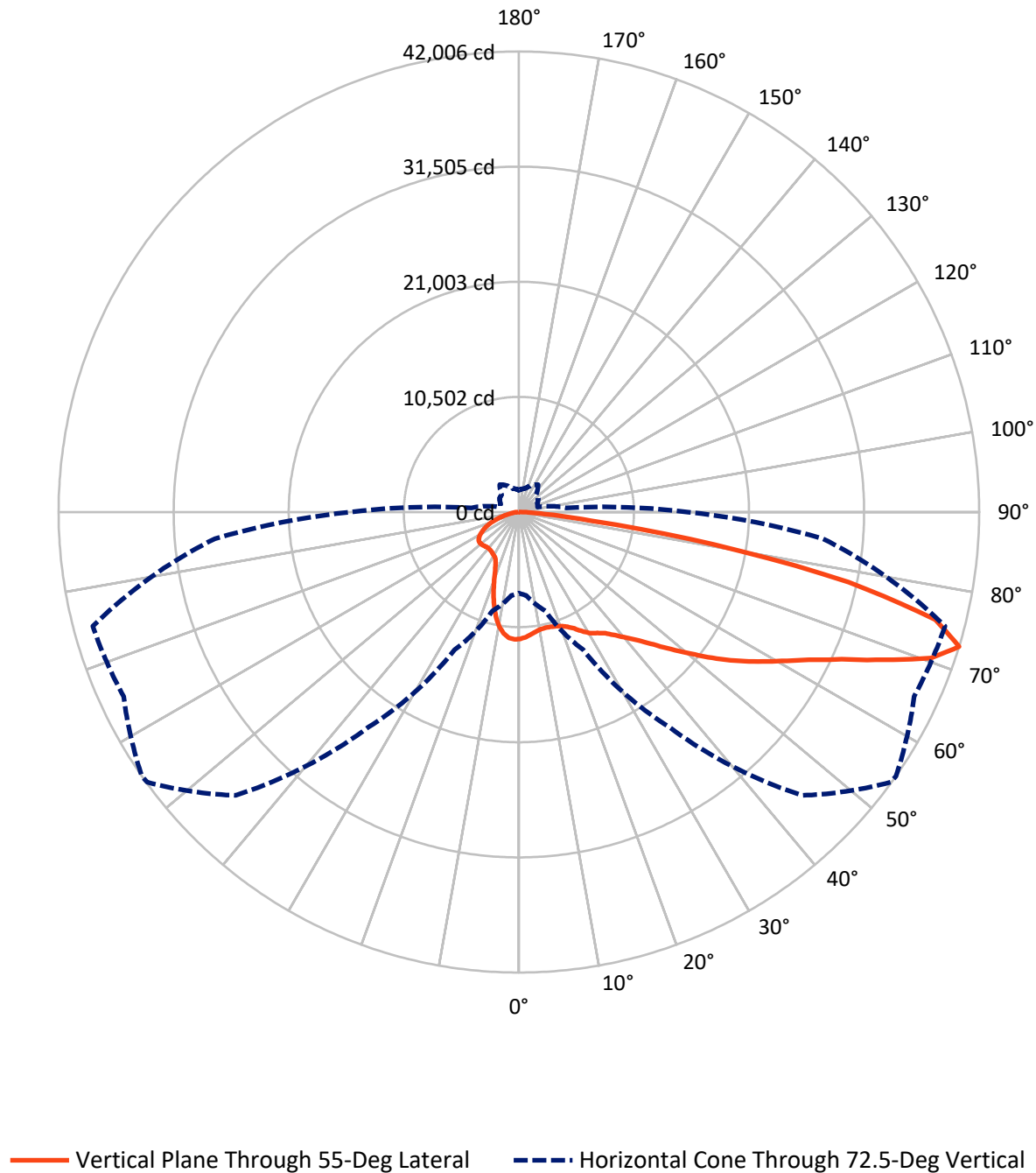
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc  
 Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12205.4  | 0.0    | 12205.4 |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 53461.6  | 0.0    | 53461.6 |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 65667.0  | 0.0    | 65667.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1048.1  | 1.6       |
| 10°-20°   | 2790.3  | 4.2       |
| 20°-30°   | 4600.5  | 7.0       |
| 30°-40°   | 6805.3  | 10.4      |
| 40°-50°   | 9498.8  | 14.5      |
| 50°-60°   | 12367.8 | 18.8      |
| 60°-70°   | 15199.6 | 23.1      |
| 70°-80°   | 11914.7 | 18.1      |
| 80°-90°   | 1441.8  | 2.2       |
| 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°    | 65667.0 | 100.0     |
| 0°-180°   | 65667.0 | 100.0     |

**Coefficient of Utilization**



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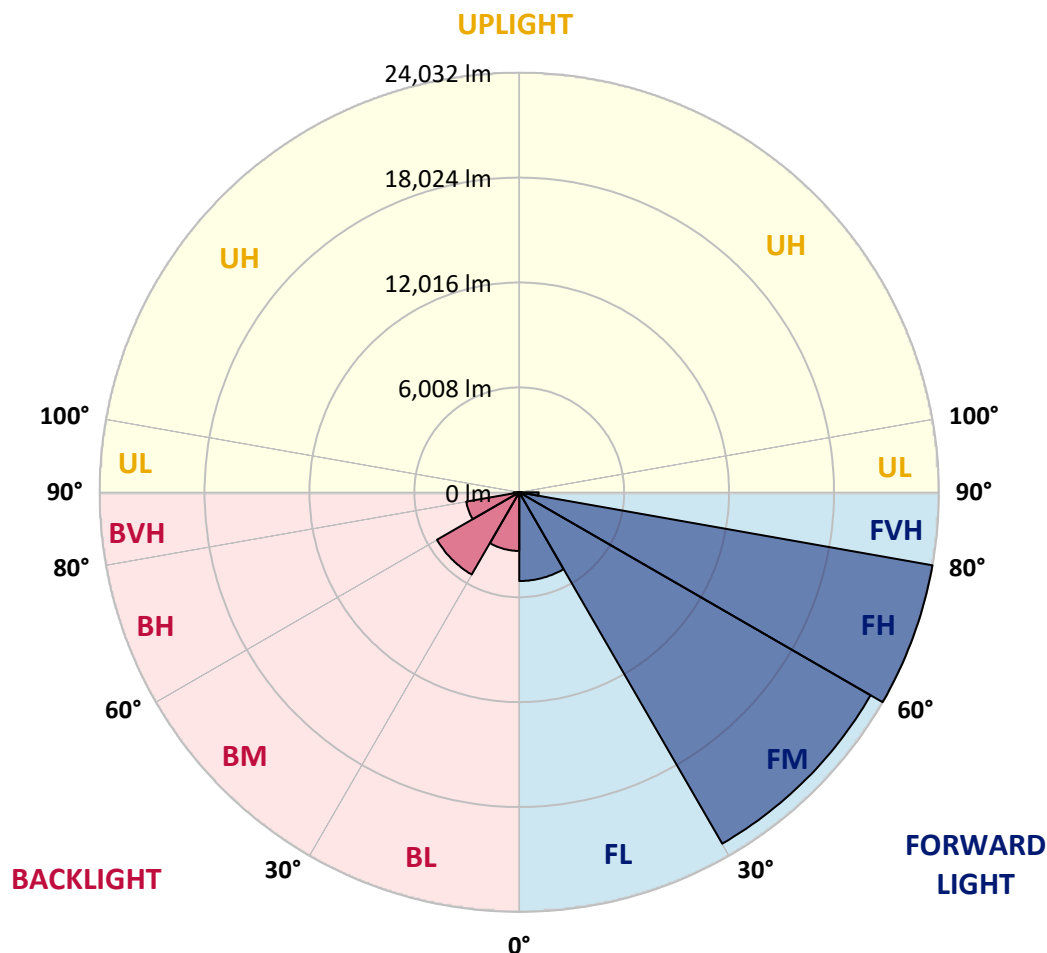
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 5080.7  | 7.7       |                         |      |         |
| FM   | (30°-60°)   | 23234.3 | 35.4      |                         |      |         |
| FH   | (60°-80°)   | 24031.9 | 36.6      |                         |      | G5      |
| FVH  | (80°-90°)   | 1114.8  | 1.7       |                         |      | G5      |
| BL   | (0°-30°)    | 3358.2  | 5.1       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 5437.7  | 8.3       | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3082.4  | 4.7       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 327.1   | 0.5       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

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

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 54°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11582.2 | 11582.2 | 11582.2 | 11582.2 | 11582.2 | 11582.2 | 11582.2 | 11582.2 | 11582.2 | 11582.2 | 11582.2 |
| 2.5°  | 11205.2 | 11178.6 | 11211.8 | 11258.4 | 11309.4 | 11378.2 | 11418.1 | 11435.9 | 11504.6 | 11531.2 | 11588.9 |
| 5°    | 10686.2 | 10672.9 | 10728.3 | 10808.2 | 10921.3 | 11081.0 | 11209.6 | 11234.0 | 11415.9 | 11544.5 | 11662.1 |
| 7.5°  | 10309.1 | 10309.1 | 10373.5 | 10468.8 | 10595.2 | 10810.4 | 10992.3 | 11025.5 | 11333.8 | 11611.1 | 11828.4 |
| 10°   | 10009.7 | 10020.8 | 10096.2 | 10209.3 | 10357.9 | 10586.4 | 10828.1 | 10865.8 | 11311.7 | 11766.3 | 12112.3 |
| 12.5° | 9810.1  | 9836.7  | 9905.5  | 10007.5 | 10191.6 | 10468.8 | 10774.9 | 10825.9 | 11358.2 | 11988.1 | 12453.9 |
| 15°   | 9936.5  | 9980.9  | 9987.5  | 10029.7 | 10131.7 | 10433.3 | 10806.0 | 10859.2 | 11458.0 | 12214.4 | 12842.1 |
| 17.5° | 10491.0 | 10506.5 | 10437.8 | 10349.1 | 10300.3 | 10493.2 | 10899.1 | 10954.6 | 11577.8 | 12438.4 | 13214.7 |
| 20°   | 11333.8 | 11325.0 | 11176.4 | 10936.8 | 10688.4 | 10719.5 | 11052.2 | 11109.8 | 11739.7 | 12635.8 | 13587.3 |
| 22.5° | 12398.5 | 12367.4 | 12139.0 | 11697.6 | 11273.9 | 11096.5 | 11320.5 | 11369.3 | 11983.7 | 12917.5 | 13986.5 |
| 25°   | 13689.3 | 13620.6 | 13318.9 | 12726.7 | 12103.5 | 11646.6 | 11724.2 | 11770.8 | 12338.6 | 13232.4 | 14352.5 |
| 27.5° | 15051.2 | 14982.4 | 14598.7 | 13882.3 | 13052.8 | 12340.8 | 12280.9 | 12320.8 | 12742.2 | 13465.3 | 14623.1 |
| 30°   | 16475.1 | 16401.9 | 16051.5 | 15248.6 | 14059.7 | 13059.4 | 12799.9 | 12815.4 | 13026.1 | 13591.7 | 14844.9 |
| 32.5° | 17905.7 | 17836.9 | 17444.3 | 16512.8 | 15153.2 | 13831.3 | 13174.7 | 13154.8 | 13196.9 | 13722.6 | 15095.5 |
| 35°   | 19356.2 | 19382.9 | 18923.7 | 17892.4 | 16364.2 | 14689.6 | 13618.3 | 13576.2 | 13483.0 | 13991.0 | 15450.4 |
| 37.5° | 20908.8 | 20891.1 | 20296.7 | 19218.7 | 17630.7 | 15621.2 | 14254.9 | 14248.2 | 13926.6 | 14498.9 | 16007.1 |
| 40°   | 21946.8 | 21957.9 | 21596.4 | 20576.1 | 18910.4 | 16652.5 | 15071.1 | 15055.6 | 14634.2 | 15259.6 | 16736.8 |
| 42.5° | 22352.7 | 22425.9 | 22519.1 | 21871.4 | 20250.1 | 17848.0 | 16044.8 | 16022.6 | 15621.2 | 16350.9 | 17595.2 |
| 45°   | 22381.5 | 22527.9 | 23104.6 | 23022.5 | 21607.5 | 19216.5 | 17289.1 | 17227.0 | 16938.6 | 17801.4 | 18619.9 |
| 47.5° | 22133.1 | 22284.0 | 23242.1 | 23707.9 | 22820.7 | 20660.4 | 18744.1 | 18695.3 | 18446.9 | 19615.7 | 19728.9 |
| 50°   | 21589.7 | 21733.9 | 22958.2 | 24042.8 | 23818.8 | 22048.9 | 20420.9 | 20292.2 | 20159.1 | 21711.7 | 20997.5 |
| 52.5° | 20571.7 | 20848.9 | 22578.9 | 24122.7 | 24415.4 | 23282.0 | 22184.1 | 22099.9 | 22173.1 | 23923.0 | 22268.4 |
| 55°   | 18160.7 | 18471.3 | 21600.8 | 24056.1 | 24856.8 | 24317.8 | 23947.4 | 23943.0 | 24322.3 | 26243.0 | 23632.5 |
| 57.5° | 16810.0 | 17029.6 | 19609.1 | 23943.0 | 25380.2 | 25347.0 | 25693.0 | 25735.1 | 26473.7 | 28769.3 | 25060.9 |
| 60°   | 16047.0 | 16277.7 | 18599.9 | 23523.8 | 26192.0 | 26677.8 | 27474.0 | 27558.3 | 28660.6 | 31566.2 | 26779.8 |
| 62.5° | 15352.8 | 15605.6 | 17974.4 | 22669.9 | 27148.0 | 28580.8 | 29607.7 | 29683.1 | 30976.2 | 34440.7 | 28441.0 |
| 65°   | 14166.2 | 14452.3 | 17058.4 | 22108.7 | 28017.4 | 31062.7 | 32320.3 | 32371.3 | 33635.5 | 37452.7 | 29711.9 |
| 67.5° | 12489.4 | 12751.1 | 15330.6 | 20868.9 | 28660.6 | 34076.9 | 35926.7 | 35955.5 | 36272.7 | 39579.7 | 30361.8 |
| 70°   | 10530.9 | 10630.7 | 12868.7 | 18309.4 | 27899.9 | 36896.0 | 39879.1 | 39885.8 | 38677.0 | 40941.5 | 30255.3 |
| 72.5° | 7399.2  | 7634.3  | 9342.1  | 13860.1 | 23976.3 | 36552.2 | 41930.7 | 42006.2 | 39794.8 | 40254.0 | 27837.8 |
| 75°   | 4538.0  | 4786.4  | 5859.9  | 8399.5  | 15210.8 | 28747.1 | 38741.3 | 39264.7 | 37698.9 | 35891.2 | 22740.9 |
| 77.5° | 3034.2  | 3127.3  | 3823.8  | 4897.3  | 6891.2  | 16539.4 | 29785.1 | 30769.9 | 31317.8 | 26174.3 | 14543.2 |
| 80°   | 1692.3  | 1869.7  | 2535.1  | 3043.1  | 3065.2  | 6571.8  | 17859.1 | 18089.8 | 17424.4 | 10422.2 | 4487.0  |
| 82.5° | 896.1   | 993.7   | 1692.3  | 1787.7  | 1672.4  | 2200.2  | 6656.1  | 6662.8  | 5567.1  | 2794.6  | 1333.0  |
| 85°   | 694.2   | 776.3   | 1160.0  | 1091.2  | 853.9   | 975.9   | 2195.8  | 2315.6  | 1894.1  | 1144.5  | 434.7   |
| 87.5° | 346.0   | 430.3   | 787.4   | 692.0   | 334.9   | 279.5   | 785.2   | 838.4   | 747.5   | 448.0   | 157.5   |
| 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°    | 11582.2 | 11582.2 | 11582.2 | 11582.2 | 11582.2 | 11582.2 | 11582.2 | 11582.2 | 11582.2 | 11582.2 | 11582.2 |
| 2.5°  | 11611.1 | 11631.0 | 11655.4 | 11628.8 | 11620.0 | 11584.5 | 11524.6 | 11511.3 | 11480.2 | 11482.4 | 11500.2 |
| 5°    | 11713.1 | 11746.4 | 11733.1 | 11631.0 | 11509.1 | 11338.3 | 11160.8 | 11010.0 | 10910.2 | 10903.5 | 10896.9 |
| 7.5°  | 11908.3 | 11930.5 | 11826.2 | 11535.7 | 11194.1 | 10799.3 | 10426.7 | 10100.6 | 9903.2  | 9854.4  | 9843.4  |
| 10°   | 12214.4 | 12209.9 | 11923.8 | 11338.3 | 10657.4 | 9952.0  | 9353.2  | 8900.7  | 8636.8  | 8559.2  | 8539.2  |
| 12.5° | 12555.9 | 12504.9 | 11957.1 | 10979.0 | 9898.8  | 8920.7  | 8162.1  | 7658.7  | 7383.6  | 7294.9  | 7272.7  |
| 15°   | 12908.6 | 12782.2 | 11875.0 | 10442.2 | 8967.3  | 7809.5  | 7013.2  | 6547.5  | 6398.8  | 6350.1  | 6341.2  |
| 17.5° | 13236.9 | 12992.9 | 11639.9 | 9714.7  | 7904.8  | 6702.7  | 6081.7  | 5895.4  | 5930.9  | 5995.2  | 5997.4  |
| 20°   | 13558.5 | 13134.8 | 11262.9 | 8796.5  | 6784.8  | 5791.1  | 5580.4  | 5717.9  | 5886.5  | 6017.4  | 6035.1  |
| 22.5° | 13875.6 | 13234.6 | 10777.1 | 7736.3  | 5782.3  | 5278.8  | 5427.4  | 5678.0  | 5871.0  | 6012.9  | 6037.3  |
| 25°   | 14141.8 | 13259.0 | 10107.3 | 6605.1  | 5085.8  | 5085.8  | 5354.2  | 5591.5  | 5782.3  | 5922.0  | 5946.4  |
| 27.5° | 14239.4 | 13094.9 | 9162.4  | 5558.2  | 4735.4  | 4997.1  | 5252.2  | 5449.6  | 5611.5  | 5760.1  | 5786.7  |
| 30°   | 14277.1 | 12791.0 | 8071.2  | 4717.6  | 4591.2  | 4901.7  | 5114.6  | 5283.2  | 5436.2  | 5576.0  | 5600.4  |
| 32.5° | 14283.7 | 12425.1 | 6913.4  | 4240.8  | 4491.4  | 4801.9  | 4943.9  | 5092.5  | 5256.6  | 5312.0  | 5320.9  |
| 35°   | 14325.9 | 11992.6 | 5693.5  | 3996.8  | 4398.2  | 4708.8  | 4821.9  | 4928.3  | 4662.2  | 4682.1  | 4699.9  |
| 37.5° | 14447.9 | 11564.5 | 4673.3  | 3859.3  | 4338.4  | 4660.0  | 4795.3  | 4409.3  | 4200.8  | 4152.0  | 4145.4  |
| 40°   | 14676.3 | 11107.6 | 3916.9  | 3748.4  | 4316.2  | 4684.4  | 4624.5  | 4116.6  | 3757.2  | 3488.9  | 3448.9  |
| 42.5° | 14993.5 | 10615.2 | 3433.4  | 3675.2  | 4331.7  | 4801.9  | 4387.1  | 3834.9  | 3238.2  | 3065.2  | 3043.1  |
| 45°   | 15350.6 | 10098.4 | 3171.7  | 3624.2  | 4384.9  | 4892.8  | 4338.4  | 3460.0  | 2996.5  | 2865.6  | 2854.5  |
| 47.5° | 15696.6 | 9466.3  | 3036.4  | 3602.0  | 4458.1  | 4819.7  | 4132.1  | 3344.7  | 2881.1  | 2812.4  | 2819.0  |
| 50°   | 16093.6 | 8896.3  | 2954.3  | 3577.6  | 4522.4  | 4773.1  | 3899.2  | 3284.8  | 2836.8  | 2921.1  | 3009.8  |
| 52.5° | 16428.5 | 8306.3  | 2881.1  | 3528.8  | 4546.8  | 4691.0  | 3839.3  | 3295.9  | 2836.8  | 2998.7  | 3083.0  |
| 55°   | 16825.5 | 7860.5  | 2796.9  | 3426.8  | 4500.3  | 4458.1  | 3797.2  | 3362.4  | 2870.1  | 2768.0  | 2776.9  |
| 57.5° | 17337.9 | 7714.1  | 2703.7  | 3267.1  | 4345.0  | 4118.8  | 3777.2  | 3426.8  | 2850.1  | 2785.8  | 2808.0  |
| 60°   | 18047.6 | 7869.4  | 2666.0  | 3058.6  | 4103.2  | 3852.6  | 3779.4  | 3393.5  | 2710.4  | 2599.5  | 2601.7  |
| 62.5° | 18724.1 | 8042.4  | 2663.8  | 2927.7  | 3806.0  | 3615.3  | 3728.4  | 3284.8  | 2639.4  | 2575.1  | 2599.5  |
| 65°   | 18945.9 | 7867.1  | 2557.3  | 2781.3  | 3471.1  | 3331.4  | 3635.3  | 3169.5  | 2586.2  | 2488.6  | 2484.1  |
| 67.5° | 18648.7 | 7323.7  | 2342.2  | 2544.0  | 3087.4  | 3000.9  | 3513.3  | 3032.0  | 2501.9  | 2422.0  | 2408.7  |
| 70°   | 17765.9 | 6110.5  | 2076.0  | 2231.3  | 2650.5  | 2628.3  | 3320.3  | 2872.3  | 2388.8  | 2320.0  | 2262.3  |
| 72.5° | 15390.5 | 4353.9  | 1750.0  | 1856.4  | 2158.1  | 2229.1  | 3054.1  | 2663.8  | 2229.1  | 2080.5  | 1991.7  |
| 75°   | 12640.2 | 3222.7  | 1437.2  | 1459.4  | 1639.1  | 1832.0  | 2688.2  | 2419.8  | 2040.5  | 1787.7  | 1718.9  |
| 77.5° | 7740.7  | 1971.8  | 1144.5  | 1153.3  | 1175.5  | 1461.6  | 2213.5  | 2147.0  | 1801.0  | 1490.5  | 1441.7  |
| 80°   | 2506.3  | 1075.7  | 827.3   | 869.4   | 802.9   | 1071.3  | 1712.3  | 1827.6  | 1545.9  | 1246.5  | 1193.3  |
| 82.5° | 953.7   | 627.7   | 558.9   | 587.8   | 556.7   | 718.6   | 1248.7  | 1463.9  | 1266.5  | 1024.7  | 834.0   |
| 85°   | 461.3   | 354.9   | 330.5   | 370.4   | 343.8   | 368.2   | 798.5   | 1077.9  | 960.4   | 667.6   | 621.0   |
| 87.5° | 164.1   | 157.5   | 126.4   | 170.8   | 146.4   | 130.9   | 244.0   | 543.4   | 634.3   | 459.1   | 410.3   |
| 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)