

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: P318650

Luminaire Tested: **GAN-SA6C-727-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318650  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA6C-727-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35589 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

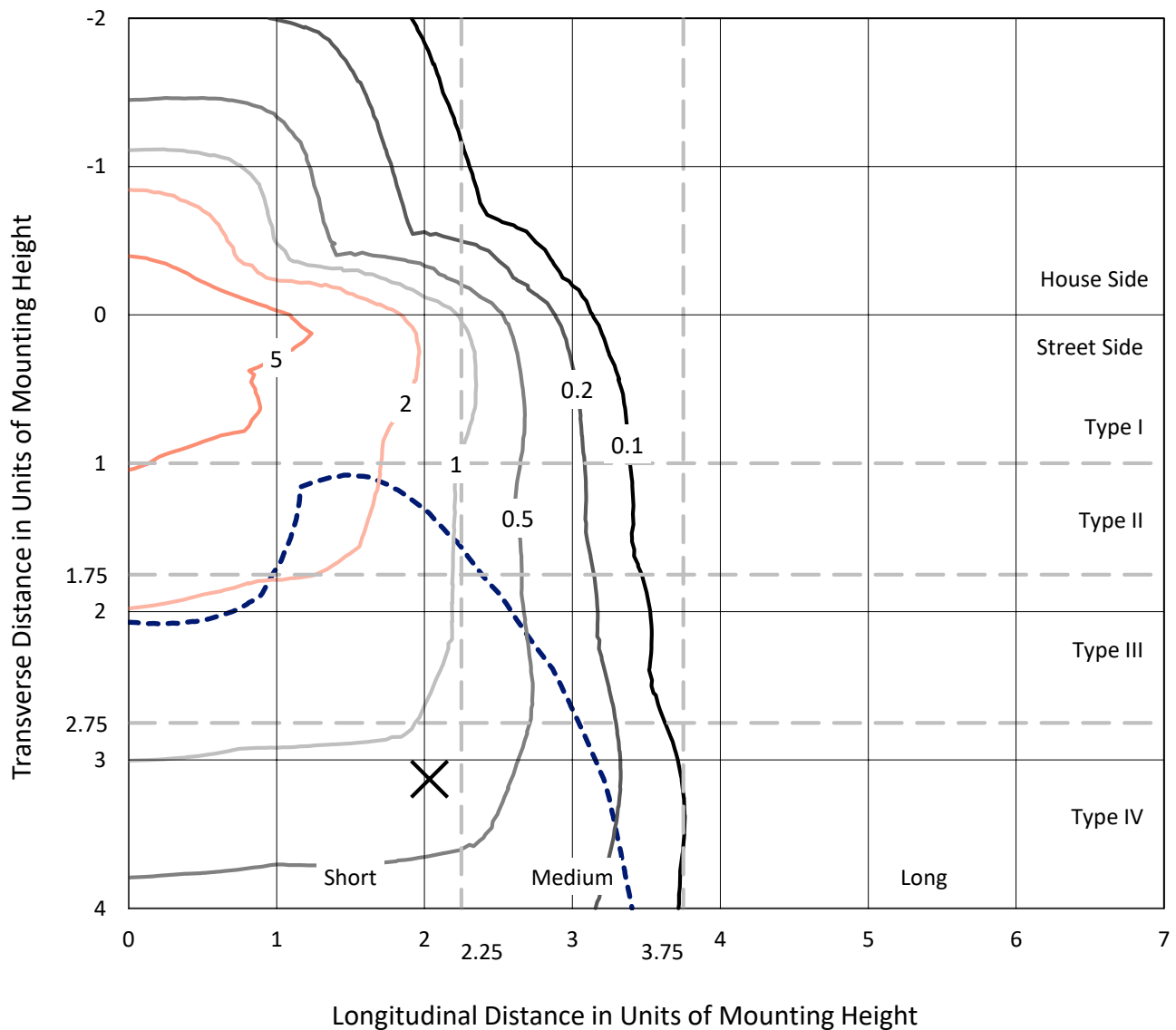
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

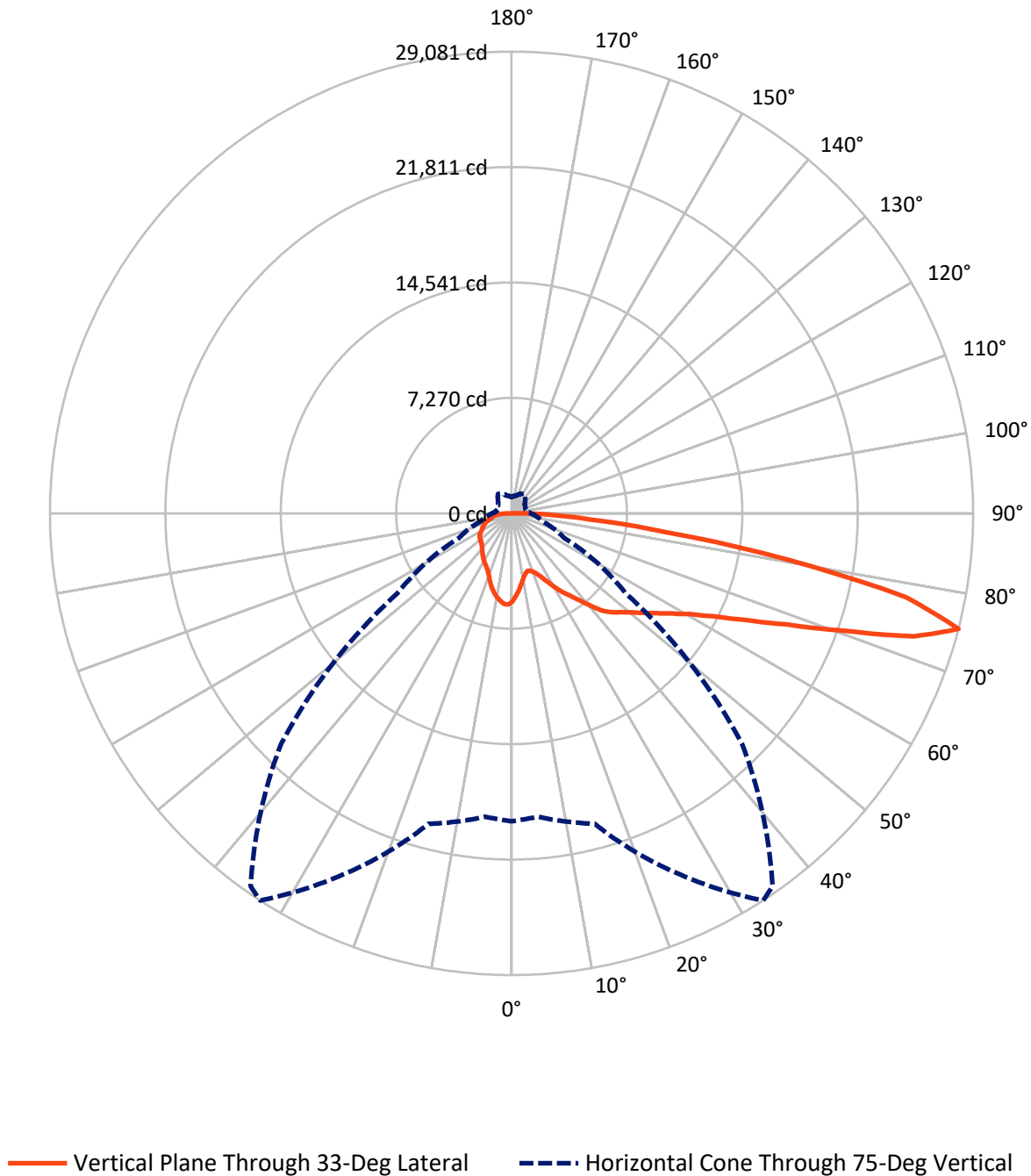
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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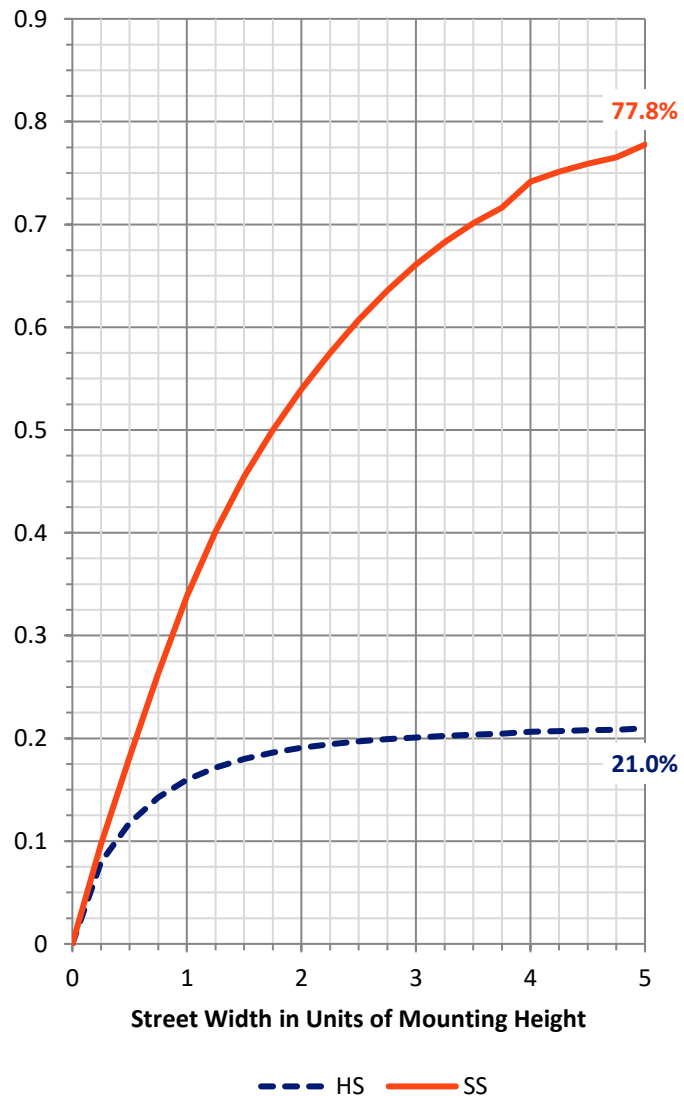
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7641.9   | 0.0    | 7641.9  |
|                    | % Fixture | 21.5     | 0.0    | 21.5    |
| <b>Street Side</b> | Lumens    | 27947.1  | 0.0    | 27947.1 |
|                    | % Fixture | 78.5     | 0.0    | 78.5    |
| <b>Total</b>       | Lumens    | 35589.0  | 0.0    | 35589.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 503.1   | 1.4       |
| 10°-20°   | 1362.6  | 3.8       |
| 20°-30°   | 2225.3  | 6.3       |
| 30°-40°   | 3313.9  | 9.3       |
| 40°-50°   | 4753.1  | 13.4      |
| 50°-60°   | 6525.2  | 18.3      |
| 60°-70°   | 8169.3  | 23.0      |
| 70°-80°   | 7390.4  | 20.8      |
| 80°-90°   | 1346.2  | 3.8       |
| 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°    | 35589.0 | 100.0     |
| 0°-180°   | 35589.0 | 100.0     |

**Coefficient of Utilization**



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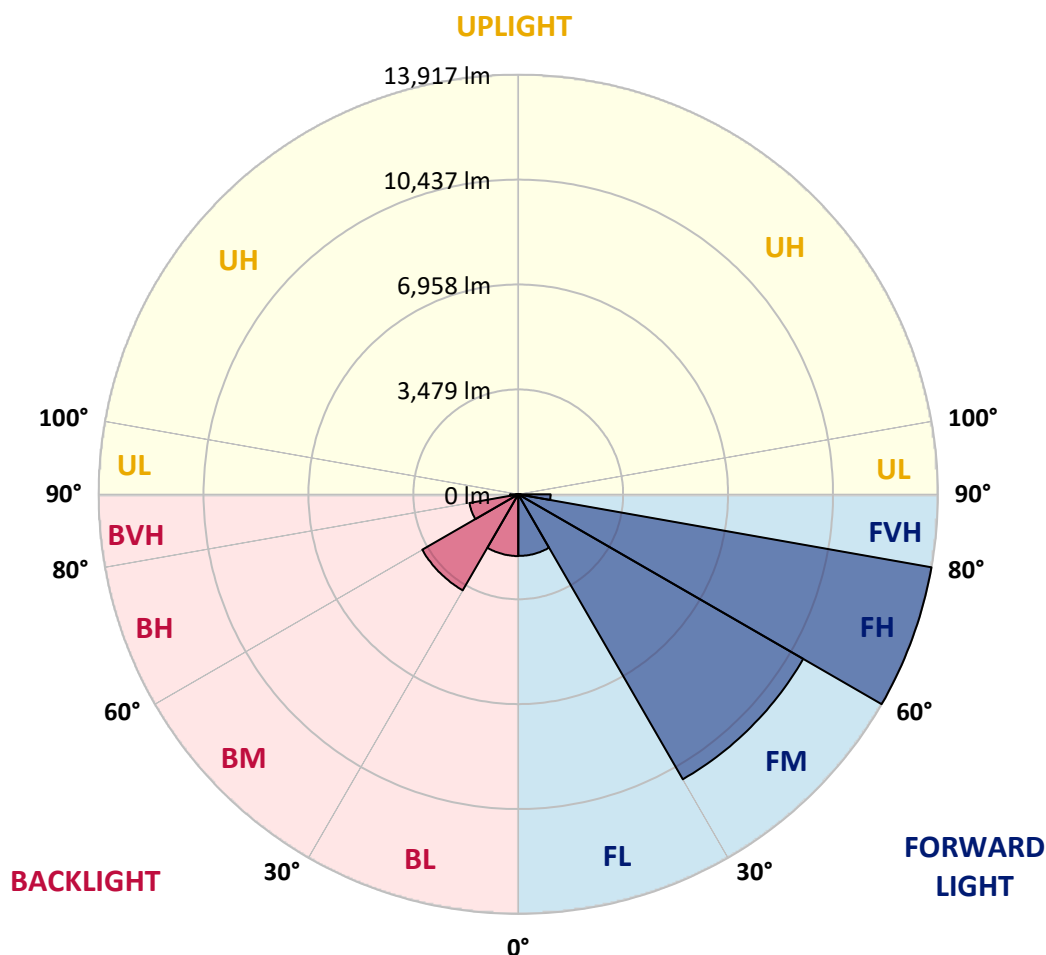
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2044.0  | 5.7       |                         |      |         |
| FM   | (30°-60°)   | 10914.4 | 30.7      |                         |      |         |
| FH   | (60°-80°)   | 13916.5 | 39.1      |                         |      | G5      |
| FVH  | (80°-90°)   | 1072.1  | 3.0       |                         |      | G5      |
| BL   | (0°-30°)    | 2046.9  | 5.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3677.8  | 10.3      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1643.1  | 4.6       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 274.1   | 0.8       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 33°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5562.8  | 5562.8  | 5562.8  | 5562.8  | 5562.8  | 5562.8  | 5562.8  | 5562.8  | 5562.8  | 5562.8  | 5562.8  |
| 2.5°  | 5165.7  | 5146.0  | 5182.9  | 5187.8  | 5219.8  | 5232.1  | 5276.3  | 5345.2  | 5401.7  | 5466.9  | 5525.9  |
| 5°    | 4697.3  | 4683.8  | 4735.4  | 4772.3  | 4842.4  | 4871.9  | 4976.4  | 5122.7  | 5253.0  | 5400.5  | 5534.5  |
| 7.5°  | 4252.3  | 4244.9  | 4302.7  | 4386.3  | 4467.4  | 4508.0  | 4688.7  | 4901.4  | 5119.0  | 5357.5  | 5562.8  |
| 10°   | 3877.3  | 3874.9  | 3930.2  | 4012.6  | 4131.8  | 4177.3  | 4410.9  | 4691.2  | 4996.0  | 5324.3  | 5610.7  |
| 12.5° | 3667.1  | 3675.7  | 3701.5  | 3770.4  | 3881.0  | 3926.5  | 4185.9  | 4515.4  | 4892.8  | 5313.2  | 5680.8  |
| 15°   | 3718.8  | 3732.3  | 3688.0  | 3685.6  | 3764.2  | 3799.9  | 4043.3  | 4390.0  | 4819.0  | 5331.6  | 5782.8  |
| 17.5° | 3938.8  | 3941.3  | 3824.5  | 3750.7  | 3798.7  | 3817.1  | 3999.0  | 4318.7  | 4776.0  | 5373.4  | 5910.7  |
| 20°   | 4248.6  | 4242.4  | 4035.9  | 3913.0  | 3938.8  | 3943.7  | 4061.7  | 4319.9  | 4772.3  | 5446.0  | 6076.6  |
| 22.5° | 4659.2  | 4613.7  | 4335.9  | 4168.7  | 4162.5  | 4155.2  | 4222.8  | 4410.9  | 4826.4  | 5564.0  | 6274.5  |
| 25°   | 5195.2  | 5152.2  | 4769.8  | 4541.2  | 4492.0  | 4473.6  | 4483.4  | 4605.1  | 4933.3  | 5690.6  | 6495.8  |
| 27.5° | 5791.4  | 5716.4  | 5347.6  | 5024.3  | 4922.3  | 4896.5  | 4837.5  | 4879.2  | 5050.1  | 5812.3  | 6758.9  |
| 30°   | 6290.5  | 6250.0  | 5927.9  | 5544.3  | 5423.8  | 5387.0  | 5232.1  | 5186.6  | 5218.5  | 5978.3  | 7090.8  |
| 32.5° | 6569.6  | 6542.5  | 6347.1  | 6037.3  | 5925.4  | 5873.8  | 5655.0  | 5564.0  | 5489.0  | 6240.1  | 7540.8  |
| 35°   | 6907.7  | 6890.4  | 6772.4  | 6547.5  | 6381.5  | 6327.4  | 6157.8  | 6063.1  | 5870.1  | 6600.3  | 8122.2  |
| 37.5° | 7337.9  | 7319.5  | 7321.9  | 7140.0  | 6942.1  | 6891.7  | 6779.8  | 6680.2  | 6364.3  | 7073.6  | 8754.1  |
| 40°   | 7824.7  | 7789.1  | 7775.6  | 7767.0  | 7641.6  | 7613.3  | 7554.3  | 7419.1  | 6983.9  | 7639.1  | 9377.4  |
| 42.5° | 8557.4  | 8430.8  | 8160.4  | 8262.4  | 8386.6  | 8371.8  | 8419.7  | 8225.5  | 7672.3  | 8307.9  | 9985.9  |
| 45°   | 9264.3  | 9056.5  | 8589.4  | 8611.5  | 8883.2  | 8965.6  | 9324.5  | 9186.9  | 8418.5  | 9040.6  | 10615.3 |
| 47.5° | 9586.4  | 9429.0  | 9032.0  | 9033.2  | 9302.4  | 9473.3  | 10260.1 | 10161.7 | 9202.8  | 9872.8  | 11383.7 |
| 50°   | 9946.6  | 9789.2  | 9432.7  | 9566.7  | 9801.5  | 9983.5  | 11163.6 | 11113.2 | 9949.0  | 10783.8 | 12304.5 |
| 52.5° | 10340.0 | 10073.2 | 9847.0  | 10086.7 | 10416.2 | 10627.6 | 12068.4 | 11930.7 | 10633.8 | 11700.9 | 13362.9 |
| 55°   | 10344.9 | 10272.4 | 10444.5 | 10620.3 | 11113.2 | 11372.6 | 13016.2 | 12652.4 | 11191.9 | 12602.0 | 14224.7 |
| 57.5° | 10933.7 | 10815.7 | 11180.8 | 11262.0 | 11906.2 | 12198.7 | 13959.1 | 13280.6 | 11759.9 | 13292.8 | 14689.4 |
| 60°   | 11713.1 | 11612.3 | 11911.1 | 12125.0 | 12887.2 | 13278.1 | 14966.0 | 13926.0 | 12206.1 | 13814.1 | 14667.2 |
| 62.5° | 13059.3 | 12944.9 | 12941.3 | 13241.2 | 14267.7 | 14722.6 | 16095.7 | 14559.1 | 12383.1 | 13917.3 | 14041.5 |
| 65°   | 15029.9 | 14848.0 | 14505.0 | 14647.6 | 16174.4 | 16628.0 | 17358.3 | 15017.6 | 12149.6 | 13364.1 | 12429.8 |
| 67.5° | 16947.7 | 16941.5 | 16519.9 | 16812.4 | 18692.1 | 19056.0 | 18796.6 | 15063.1 | 11420.6 | 11437.8 | 9570.4  |
| 70°   | 18859.3 | 18883.9 | 18812.6 | 19830.5 | 22093.7 | 22472.3 | 20328.4 | 14452.1 | 9781.9  | 8259.9  | 5733.6  |
| 72.5° | 20373.8 | 20367.7 | 20726.7 | 23351.3 | 26508.2 | 26423.4 | 21619.2 | 12600.7 | 7023.2  | 4458.8  | 2740.2  |
| 75°   | 19392.8 | 19178.9 | 20248.4 | 25094.5 | 29081.2 | 28667.0 | 20521.4 | 8789.8  | 3645.0  | 2029.6  | 1475.2  |
| 77.5° | 12648.7 | 12851.5 | 14421.4 | 20730.3 | 25437.5 | 24933.5 | 15055.7 | 4101.1  | 1717.4  | 1331.4  | 1069.5  |
| 80°   | 4580.5  | 4794.4  | 6752.8  | 11742.6 | 17525.5 | 17443.1 | 7414.1  | 1685.4  | 1161.7  | 1005.6  | 779.4   |
| 82.5° | 1576.0  | 1654.7  | 2664.0  | 5214.9  | 9895.0  | 10263.8 | 2789.4  | 957.7   | 844.6   | 713.0   | 533.5   |
| 85°   | 618.4   | 708.1   | 1218.3  | 2509.1  | 4991.1  | 5028.0  | 1129.8  | 572.9   | 587.6   | 467.1   | 292.6   |
| 87.5° | 234.8   | 285.2   | 582.7   | 1165.4  | 2279.2  | 2093.6  | 404.5   | 272.9   | 334.4   | 277.8   | 138.9   |
| 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°    | 5562.8  | 5562.8 | 5562.8 | 5562.8 | 5562.8 | 5562.8 | 5562.8 | 5562.8 | 5562.8 | 5562.8 | 5562.8 |
| 2.5°  | 5571.4  | 5597.2 | 5651.3 | 5688.2 | 5727.5 | 5738.6 | 5743.5 | 5753.3 | 5763.1 | 5759.5 | 5760.7 |
| 5°    | 5605.8  | 5656.2 | 5743.5 | 5780.4 | 5797.6 | 5777.9 | 5739.8 | 5709.1 | 5686.9 | 5674.6 | 5670.9 |
| 7.5°  | 5662.3  | 5733.6 | 5827.1 | 5820.9 | 5781.6 | 5694.3 | 5596.0 | 5522.2 | 5460.7 | 5438.6 | 5426.3 |
| 10°   | 5737.3  | 5820.9 | 5886.1 | 5816.0 | 5701.7 | 5550.5 | 5402.9 | 5288.6 | 5196.4 | 5160.8 | 5154.6 |
| 12.5° | 5833.2  | 5918.0 | 5930.3 | 5781.6 | 5592.3 | 5385.7 | 5185.4 | 5034.1 | 4896.5 | 4852.2 | 4842.4 |
| 15°   | 5957.4  | 6037.3 | 5961.1 | 5721.3 | 5457.0 | 5179.2 | 4919.8 | 4714.5 | 4569.5 | 4515.4 | 4495.7 |
| 17.5° | 6087.7  | 6163.9 | 5967.2 | 5621.8 | 5280.0 | 4934.6 | 4608.8 | 4398.6 | 4232.6 | 4169.9 | 4162.5 |
| 20°   | 6243.8  | 6278.2 | 5941.4 | 5479.2 | 5036.6 | 4617.4 | 4274.4 | 4076.5 | 3988.0 | 3943.7 | 3938.8 |
| 22.5° | 6436.8  | 6399.9 | 5882.4 | 5286.2 | 4728.0 | 4251.1 | 3972.0 | 3879.8 | 3857.7 | 3847.8 | 3851.5 |
| 25°   | 6640.9  | 6527.8 | 5795.1 | 5034.1 | 4338.3 | 3884.7 | 3750.7 | 3776.5 | 3806.0 | 3802.3 | 3802.3 |
| 27.5° | 6865.9  | 6658.1 | 5661.1 | 4699.8 | 3906.8 | 3584.8 | 3600.7 | 3695.4 | 3739.7 | 3738.4 | 3737.2 |
| 30°   | 7154.8  | 6805.6 | 5490.2 | 4297.8 | 3503.6 | 3373.3 | 3470.4 | 3586.0 | 3646.2 | 3643.8 | 3645.0 |
| 32.5° | 7510.0  | 6967.9 | 5257.9 | 3849.1 | 3212.3 | 3217.2 | 3329.1 | 3443.4 | 3513.5 | 3507.3 | 3508.5 |
| 35°   | 7925.6  | 7149.8 | 4943.2 | 3406.5 | 3019.3 | 3093.0 | 3181.5 | 3261.4 | 3327.8 | 3319.2 | 3310.6 |
| 37.5° | 8377.9  | 7328.1 | 4525.2 | 3010.7 | 2861.9 | 2977.5 | 3051.2 | 3064.7 | 3095.5 | 3073.3 | 3057.4 |
| 40°   | 8808.2  | 7464.5 | 3986.7 | 2686.1 | 2703.3 | 2879.1 | 2927.1 | 2873.0 | 2817.6 | 2810.3 | 2788.1 |
| 42.5° | 9183.2  | 7510.0 | 3442.1 | 2426.7 | 2536.1 | 2775.8 | 2805.4 | 2692.3 | 2592.7 | 2546.0 | 2526.3 |
| 45°   | 9579.0  | 7526.0 | 2934.4 | 2209.1 | 2375.1 | 2683.6 | 2715.6 | 2564.4 | 2424.3 | 2323.5 | 2290.3 |
| 47.5° | 10096.6 | 7641.6 | 2539.8 | 2048.1 | 2252.1 | 2622.2 | 2667.7 | 2462.4 | 2280.4 | 2136.6 | 2105.9 |
| 50°   | 10773.9 | 7870.2 | 2219.0 | 1925.1 | 2172.2 | 2581.6 | 2633.2 | 2362.8 | 2162.4 | 1989.1 | 1958.3 |
| 52.5° | 11526.3 | 8080.4 | 1959.6 | 1825.6 | 2094.8 | 2510.3 | 2589.0 | 2291.5 | 2051.8 | 1852.6 | 1819.4 |
| 55°   | 12052.4 | 7919.4 | 1750.6 | 1722.3 | 1994.0 | 2408.3 | 2527.5 | 2231.3 | 1893.2 | 1719.8 | 1690.3 |
| 57.5° | 12153.2 | 7368.7 | 1592.0 | 1615.4 | 1872.3 | 2280.4 | 2432.9 | 2097.3 | 1807.1 | 1662.1 | 1631.3 |
| 60°   | 11877.9 | 6601.6 | 1474.0 | 1517.0 | 1742.0 | 2119.4 | 2255.8 | 2002.6 | 1724.8 | 1600.6 | 1574.8 |
| 62.5° | 11185.8 | 5816.0 | 1386.7 | 1428.5 | 1620.3 | 1955.9 | 2145.2 | 1903.0 | 1641.2 | 1530.5 | 1504.7 |
| 65°   | 9788.0  | 4882.9 | 1303.1 | 1349.8 | 1507.2 | 1814.5 | 2045.6 | 1810.8 | 1558.8 | 1474.0 | 1449.4 |
| 67.5° | 7388.3  | 3657.3 | 1224.4 | 1266.2 | 1406.4 | 1691.6 | 1937.4 | 1719.8 | 1478.9 | 1424.8 | 1395.3 |
| 70°   | 4350.6  | 2290.3 | 1134.7 | 1178.9 | 1300.6 | 1563.7 | 1821.9 | 1620.3 | 1379.3 | 1354.7 | 1316.6 |
| 72.5° | 2024.7  | 1378.1 | 1032.6 | 1075.7 | 1167.9 | 1392.8 | 1673.1 | 1490.0 | 1261.3 | 1207.2 | 1155.6 |
| 75°   | 1208.4  | 1008.1 | 912.2  | 950.3  | 1015.4 | 1210.9 | 1486.3 | 1357.2 | 1149.4 | 1078.1 | 1024.0 |
| 77.5° | 903.6   | 770.8  | 779.4  | 820.0  | 872.8  | 1059.7 | 1316.6 | 1252.7 | 1063.4 | 1008.1 | 971.2  |
| 80°   | 650.3   | 585.2  | 635.6  | 679.8  | 735.1  | 963.8  | 1261.3 | 1158.0 | 961.3  | 887.6  | 853.2  |
| 82.5° | 434.0   | 420.4  | 478.2  | 523.7  | 577.8  | 843.3  | 1185.1 | 1014.2 | 821.2  | 727.8  | 651.5  |
| 85°   | 239.7   | 253.2  | 322.1  | 341.8  | 388.5  | 593.8  | 971.2  | 815.1  | 618.4  | 497.9  | 475.8  |
| 87.5° | 99.6    | 116.8  | 173.3  | 167.2  | 206.5  | 354.0  | 639.3  | 491.7  | 393.4  | 293.8  | 228.7  |
| 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)