

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: P317874

Luminaire Tested: **GAN-SA0A-827-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317874  
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-SA0A-827-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34670 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 323  
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

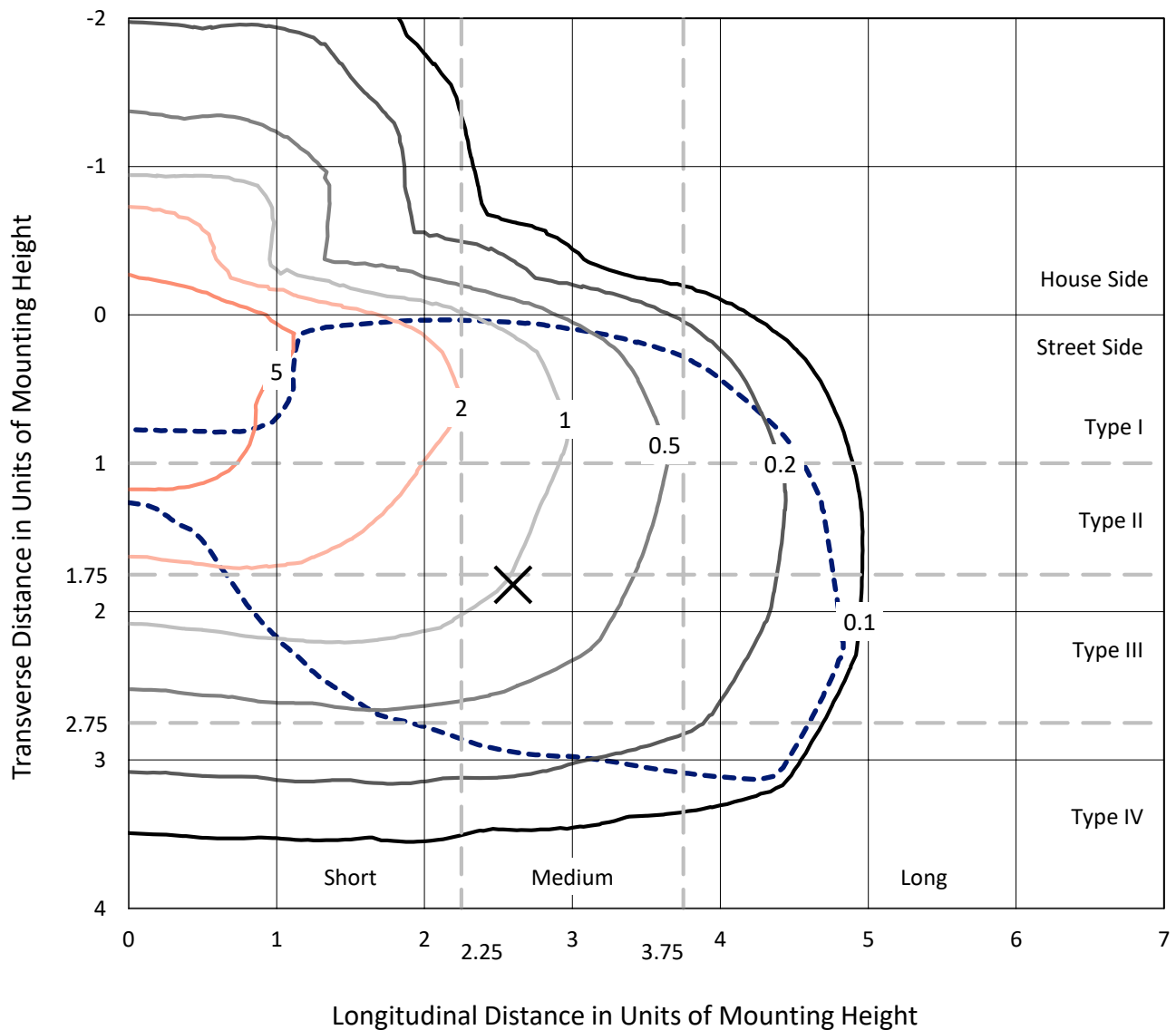


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## Iso-Footcandle Lines of Horizontal Illumination

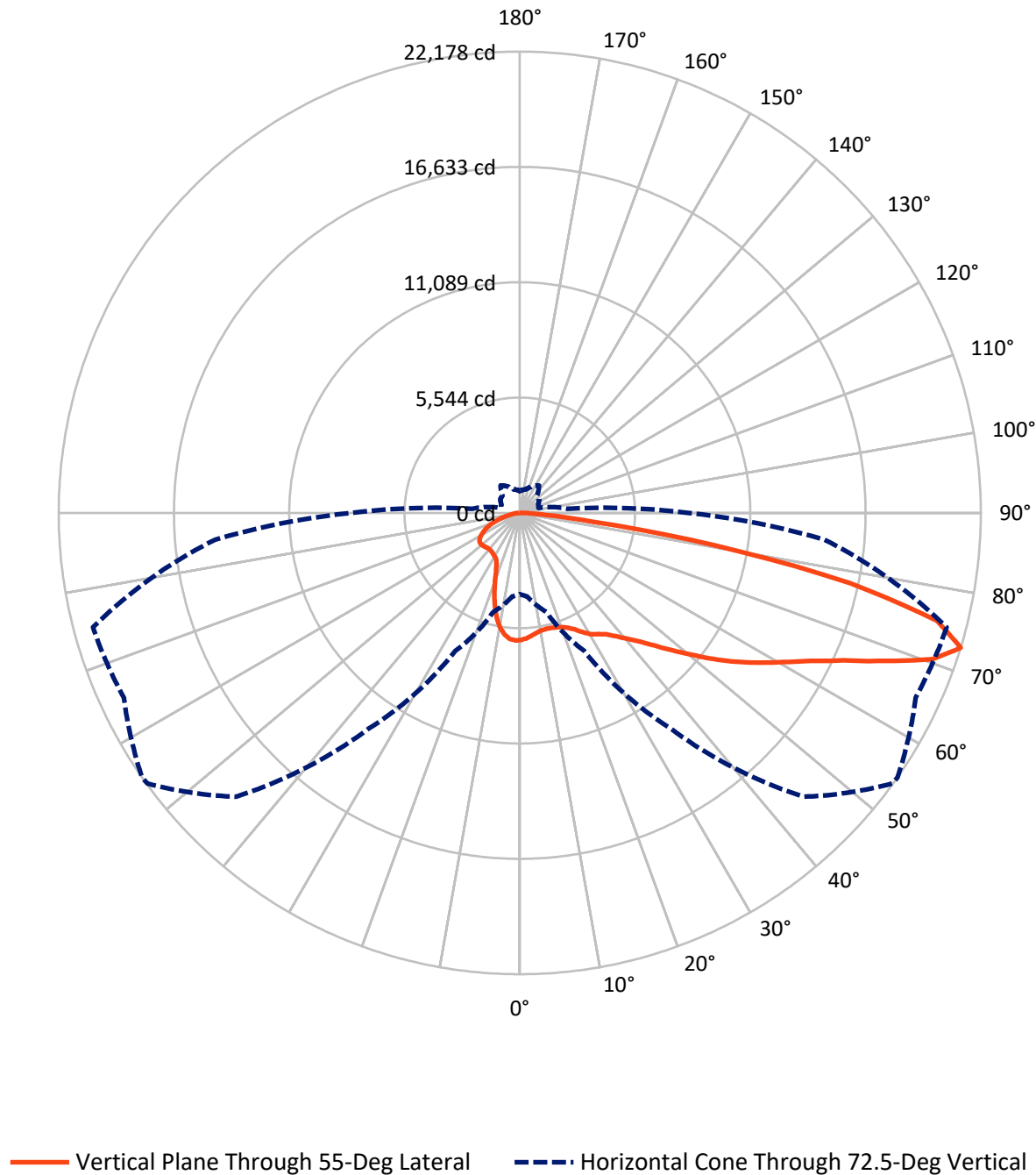
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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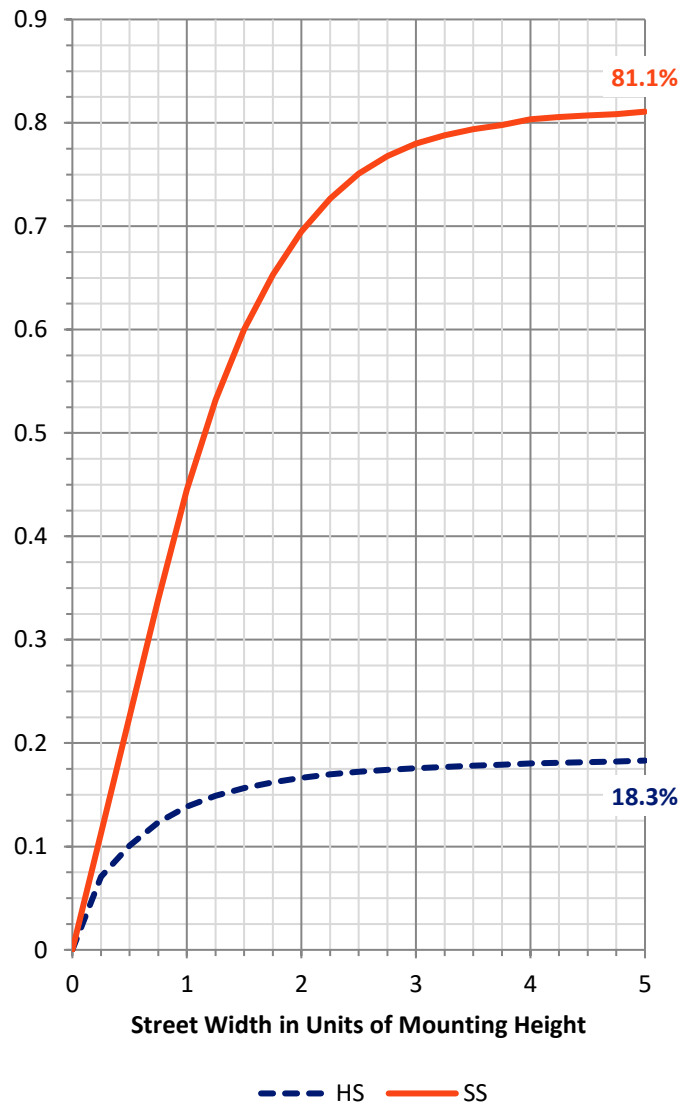
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6444.0   | 0.0    | 6444.0  |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 28226.0  | 0.0    | 28226.0 |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 34670.0  | 0.0    | 34670.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 553.3   | 1.6       |
| 10°-20°   | 1473.2  | 4.2       |
| 20°-30°   | 2428.9  | 7.0       |
| 30°-40°   | 3593.0  | 10.4      |
| 40°-50°   | 5015.1  | 14.5      |
| 50°-60°   | 6529.8  | 18.8      |
| 60°-70°   | 8024.9  | 23.1      |
| 70°-80°   | 6290.5  | 18.1      |
| 80°-90°   | 761.2   | 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°    | 34670.0 | 100.0     |
| 0°-180°   | 34670.0 | 100.0     |

**Coefficient of Utilization**



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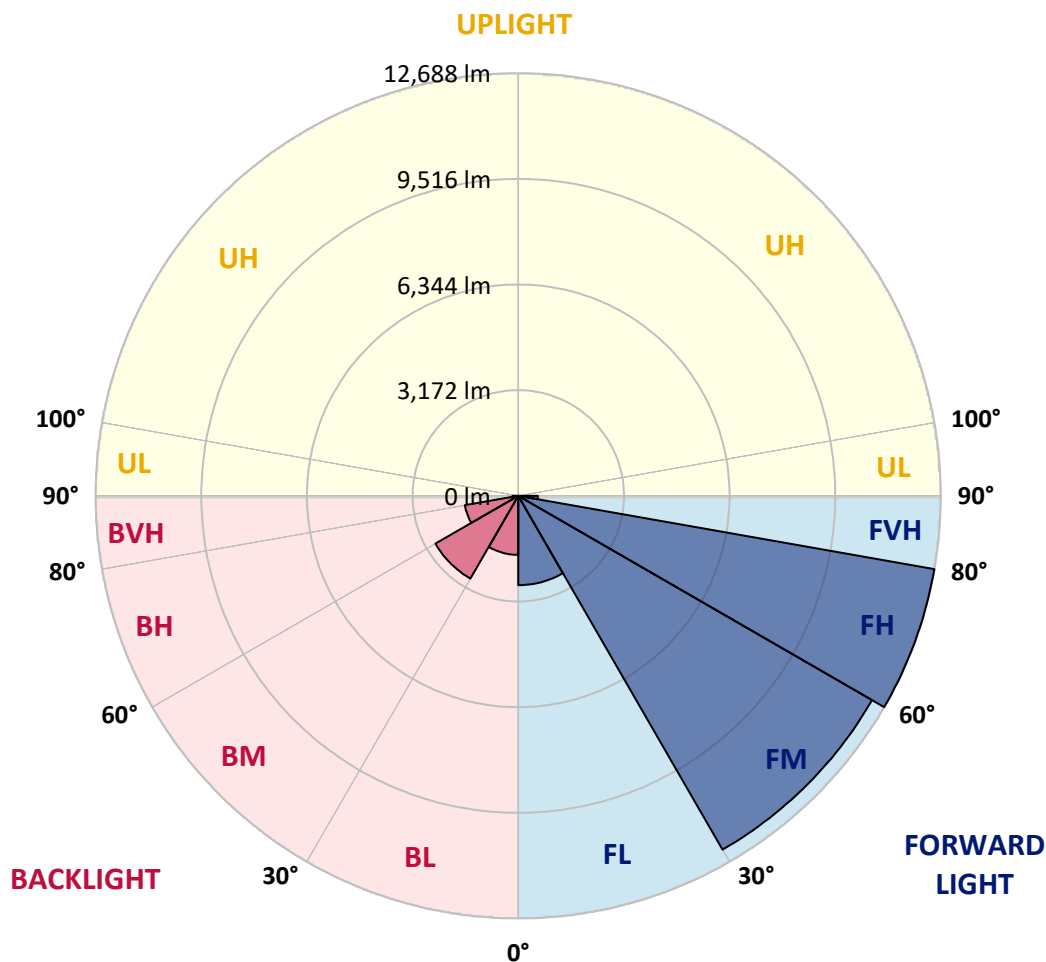
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2682.4  | 7.7       |                         |      |         |
| FM   | (30°-60°)   | 12266.9 | 35.4      |                         |      |         |
| FH   | (60°-80°)   | 12688.0 | 36.6      |                         |      | G5      |
| FVH  | (80°-90°)   | 588.5   | 1.7       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1773.0  | 5.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2870.9  | 8.3       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1627.4  | 4.7       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 172.7   | 0.5       |                         |      | G2/225  |
| 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 Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 54°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6115.0  | 6115.0  | 6115.0  | 6115.0  | 6115.0  | 6115.0  | 6115.0  | 6115.0  | 6115.0  | 6115.0  | 6115.0  |
| 2.5°  | 5916.0  | 5901.9  | 5919.5  | 5944.1  | 5971.0  | 6007.3  | 6028.4  | 6037.8  | 6074.1  | 6088.1  | 6118.6  |
| 5°    | 5642.0  | 5634.9  | 5664.2  | 5706.4  | 5766.1  | 5850.4  | 5918.3  | 5931.2  | 6027.2  | 6095.1  | 6157.2  |
| 7.5°  | 5442.9  | 5442.9  | 5476.8  | 5527.2  | 5593.9  | 5707.5  | 5803.6  | 5821.1  | 5983.9  | 6130.3  | 6245.0  |
| 10°   | 5284.8  | 5290.6  | 5330.5  | 5390.2  | 5468.6  | 5589.3  | 5716.9  | 5736.8  | 5972.2  | 6212.2  | 6394.9  |
| 12.5° | 5179.4  | 5193.5  | 5229.8  | 5283.6  | 5380.8  | 5527.2  | 5688.8  | 5715.7  | 5996.8  | 6329.3  | 6575.3  |
| 15°   | 5246.1  | 5269.6  | 5273.1  | 5295.3  | 5349.2  | 5508.5  | 5705.2  | 5733.3  | 6049.5  | 6448.8  | 6780.2  |
| 17.5° | 5538.9  | 5547.1  | 5510.8  | 5464.0  | 5438.2  | 5540.1  | 5754.4  | 5783.6  | 6112.7  | 6567.1  | 6976.9  |
| 20°   | 5983.9  | 5979.2  | 5900.7  | 5774.3  | 5643.1  | 5659.5  | 5835.2  | 5865.6  | 6198.2  | 6671.3  | 7173.6  |
| 22.5° | 6546.0  | 6529.6  | 6409.0  | 6175.9  | 5952.3  | 5858.6  | 5976.9  | 6002.6  | 6327.0  | 6820.0  | 7384.4  |
| 25°   | 7227.5  | 7191.2  | 7031.9  | 6719.3  | 6390.2  | 6149.0  | 6190.0  | 6214.6  | 6514.4  | 6986.3  | 7577.6  |
| 27.5° | 7946.5  | 7910.2  | 7707.6  | 7329.4  | 6891.4  | 6515.5  | 6483.9  | 6505.0  | 6727.5  | 7109.2  | 7720.5  |
| 30°   | 8698.3  | 8659.7  | 8474.6  | 8050.7  | 7423.1  | 6894.9  | 6757.9  | 6766.1  | 6877.4  | 7176.0  | 7837.6  |
| 32.5° | 9453.6  | 9417.3  | 9210.0  | 8718.2  | 8000.4  | 7302.5  | 6955.8  | 6945.3  | 6967.5  | 7245.1  | 7969.9  |
| 35°   | 10219.5 | 10233.5 | 9991.1  | 9446.6  | 8639.8  | 7755.6  | 7190.0  | 7167.8  | 7118.6  | 7386.8  | 8157.3  |
| 37.5° | 11039.2 | 11029.8 | 10716.0 | 10146.8 | 9308.4  | 8247.5  | 7526.1  | 7522.6  | 7352.8  | 7654.9  | 8451.2  |
| 40°   | 11587.2 | 11593.1 | 11402.2 | 10863.5 | 9984.1  | 8792.0  | 7957.0  | 7948.9  | 7726.4  | 8056.6  | 8836.5  |
| 42.5° | 11801.5 | 11840.1 | 11889.3 | 11547.4 | 10691.4 | 9423.2  | 8471.1  | 8459.4  | 8247.5  | 8632.7  | 9289.7  |
| 45°   | 11816.7 | 11894.0 | 12198.5 | 12155.1 | 11408.0 | 10145.7 | 9128.1  | 9095.3  | 8943.0  | 9398.6  | 9830.7  |
| 47.5° | 11685.6 | 11765.2 | 12271.1 | 12517.0 | 12048.6 | 10908.0 | 9896.3  | 9870.5  | 9739.3  | 10356.5 | 10416.2 |
| 50°   | 11398.7 | 11474.8 | 12121.2 | 12693.8 | 12575.5 | 11641.1 | 10781.5 | 10713.6 | 10643.4 | 11463.1 | 11086.0 |
| 52.5° | 10861.2 | 11007.5 | 11920.9 | 12736.0 | 12890.5 | 12292.1 | 11712.5 | 11668.0 | 11706.6 | 12630.6 | 11757.0 |
| 55°   | 9588.3  | 9752.2  | 11404.5 | 12700.8 | 13123.6 | 12839.0 | 12643.5 | 12641.1 | 12841.4 | 13855.5 | 12477.2 |
| 57.5° | 8875.1  | 8991.1  | 10352.9 | 12641.1 | 13399.9 | 13382.4 | 13565.0 | 13587.3 | 13977.2 | 15189.2 | 13231.3 |
| 60°   | 8472.3  | 8594.1  | 9820.1  | 12419.8 | 13828.5 | 14085.0 | 14505.4 | 14549.9 | 15131.9 | 16665.9 | 14138.8 |
| 62.5° | 8105.8  | 8239.3  | 9489.9  | 11968.9 | 14333.2 | 15089.7 | 15631.9 | 15671.7 | 16354.4 | 18183.5 | 15015.9 |
| 65°   | 7479.3  | 7630.3  | 9006.3  | 11672.7 | 14792.3 | 16400.1 | 17064.0 | 17091.0 | 17758.4 | 19773.8 | 15686.9 |
| 67.5° | 6594.0  | 6732.2  | 8094.1  | 11018.1 | 15131.9 | 17991.5 | 18968.1 | 18983.3 | 19150.8 | 20896.8 | 16030.0 |
| 70°   | 5560.0  | 5612.7  | 6794.2  | 9666.7  | 14730.2 | 19479.8 | 21054.9 | 21058.4 | 20420.2 | 21615.8 | 15973.8 |
| 72.5° | 3906.5  | 4030.6  | 4932.3  | 7317.7  | 12658.7 | 19298.3 | 22138.0 | 22177.9 | 21010.4 | 21252.8 | 14697.4 |
| 75°   | 2395.9  | 2527.1  | 3093.8  | 4434.6  | 8030.8  | 15177.5 | 20454.1 | 20730.5 | 19903.7 | 18949.4 | 12006.4 |
| 77.5° | 1601.9  | 1651.1  | 2018.8  | 2585.6  | 3638.3  | 8732.3  | 15725.6 | 16245.5 | 16534.7 | 13819.2 | 7678.3  |
| 80°   | 893.5   | 987.2   | 1338.5  | 1606.6  | 1618.3  | 3469.7  | 9429.0  | 9550.8  | 9199.5  | 5502.6  | 2369.0  |
| 82.5° | 473.1   | 524.6   | 893.5   | 943.8   | 882.9   | 1161.6  | 3514.2  | 3517.7  | 2939.2  | 1475.5  | 703.8   |
| 85°   | 366.5   | 409.9   | 612.4   | 576.1   | 450.8   | 515.2   | 1159.3  | 1222.5  | 1000.0  | 604.2   | 229.5   |
| 87.5° | 182.7   | 227.2   | 415.7   | 365.4   | 176.8   | 147.5   | 414.5   | 442.6   | 394.6   | 236.5   | 83.1    |
| 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°    | 6115.0  | 6115.0 | 6115.0 | 6115.0 | 6115.0 | 6115.0 | 6115.0 | 6115.0 | 6115.0 | 6115.0 | 6115.0 |
| 2.5°  | 6130.3  | 6140.8 | 6153.7 | 6139.6 | 6134.9 | 6116.2 | 6084.6 | 6077.6 | 6061.2 | 6062.3 | 6071.7 |
| 5°    | 6184.1  | 6201.7 | 6194.7 | 6140.8 | 6076.4 | 5986.2 | 5892.5 | 5812.9 | 5760.2 | 5756.7 | 5753.2 |
| 7.5°  | 6287.2  | 6298.9 | 6243.9 | 6090.5 | 5910.1 | 5701.7 | 5504.9 | 5332.8 | 5228.6 | 5202.8 | 5197.0 |
| 10°   | 6448.8  | 6446.4 | 6295.4 | 5986.2 | 5626.7 | 5254.3 | 4938.2 | 4699.3 | 4559.9 | 4518.9 | 4508.4 |
| 12.5° | 6629.1  | 6602.2 | 6312.9 | 5796.5 | 5226.2 | 4709.8 | 4309.3 | 4043.5 | 3898.3 | 3851.5 | 3839.8 |
| 15°   | 6815.3  | 6748.6 | 6269.6 | 5513.1 | 4734.4 | 4123.1 | 3702.8 | 3456.8 | 3378.4 | 3352.6 | 3347.9 |
| 17.5° | 6988.6  | 6859.8 | 6145.5 | 5129.0 | 4173.5 | 3538.8 | 3210.9 | 3112.6 | 3131.3 | 3165.3 | 3166.4 |
| 20°   | 7158.4  | 6934.8 | 5946.4 | 4644.2 | 3582.1 | 3057.5 | 2946.3 | 3018.9 | 3107.9 | 3177.0 | 3186.3 |
| 22.5° | 7325.9  | 6987.4 | 5690.0 | 4084.5 | 3052.8 | 2787.0 | 2865.5 | 2997.8 | 3099.7 | 3174.6 | 3187.5 |
| 25°   | 7466.4  | 7000.3 | 5336.3 | 3487.3 | 2685.1 | 2685.1 | 2826.8 | 2952.1 | 3052.8 | 3126.6 | 3139.5 |
| 27.5° | 7517.9  | 6913.7 | 4837.5 | 2934.6 | 2500.1 | 2638.3 | 2773.0 | 2877.2 | 2962.7 | 3041.1 | 3055.2 |
| 30°   | 7537.8  | 6753.2 | 4261.3 | 2490.7 | 2424.0 | 2587.9 | 2700.4 | 2789.4 | 2870.2 | 2943.9 | 2956.8 |
| 32.5° | 7541.3  | 6560.0 | 3650.1 | 2239.0 | 2371.3 | 2535.2 | 2610.2 | 2688.7 | 2775.3 | 2804.6 | 2809.3 |
| 35°   | 7563.6  | 6331.7 | 3006.0 | 2110.2 | 2322.1 | 2486.1 | 2545.8 | 2602.0 | 2461.5 | 2472.0 | 2481.4 |
| 37.5° | 7628.0  | 6105.7 | 2467.3 | 2037.6 | 2290.5 | 2460.3 | 2531.7 | 2328.0 | 2217.9 | 2192.1 | 2188.6 |
| 40°   | 7748.6  | 5864.4 | 2068.0 | 1979.0 | 2278.8 | 2473.2 | 2441.6 | 2173.4 | 1983.7 | 1842.0 | 1820.9 |
| 42.5° | 7916.1  | 5604.5 | 1812.7 | 1940.4 | 2287.0 | 2535.2 | 2316.3 | 2024.7 | 1709.7 | 1618.3 | 1606.6 |
| 45°   | 8104.6  | 5331.6 | 1674.6 | 1913.4 | 2315.1 | 2583.3 | 2290.5 | 1826.8 | 1582.0 | 1513.0 | 1507.1 |
| 47.5° | 8287.3  | 4997.9 | 1603.1 | 1901.7 | 2353.7 | 2544.6 | 2181.6 | 1765.9 | 1521.1 | 1484.8 | 1488.4 |
| 50°   | 8496.9  | 4696.9 | 1559.8 | 1888.8 | 2387.7 | 2520.0 | 2058.6 | 1734.3 | 1497.7 | 1542.2 | 1589.1 |
| 52.5° | 8673.7  | 4385.5 | 1521.1 | 1863.1 | 2400.6 | 2476.7 | 2027.0 | 1740.1 | 1497.7 | 1583.2 | 1627.7 |
| 55°   | 8883.3  | 4150.1 | 1476.7 | 1809.2 | 2376.0 | 2353.7 | 2004.8 | 1775.3 | 1515.3 | 1461.4 | 1466.1 |
| 57.5° | 9153.8  | 4072.8 | 1427.5 | 1724.9 | 2294.0 | 2174.6 | 1994.2 | 1809.2 | 1504.8 | 1470.8 | 1482.5 |
| 60°   | 9528.6  | 4154.8 | 1407.6 | 1614.8 | 2166.4 | 2034.1 | 1995.4 | 1791.7 | 1431.0 | 1372.4 | 1373.6 |
| 62.5° | 9885.7  | 4246.1 | 1406.4 | 1545.7 | 2009.5 | 1908.8 | 1968.5 | 1734.3 | 1393.5 | 1359.5 | 1372.4 |
| 65°   | 10002.8 | 4153.6 | 1350.2 | 1468.5 | 1832.6 | 1758.9 | 1919.3 | 1673.4 | 1365.4 | 1313.9 | 1311.5 |
| 67.5° | 9845.9  | 3866.7 | 1236.6 | 1343.2 | 1630.1 | 1584.4 | 1854.9 | 1600.8 | 1320.9 | 1278.7 | 1271.7 |
| 70°   | 9379.8  | 3226.1 | 1096.1 | 1178.0 | 1399.4 | 1387.7 | 1753.0 | 1516.5 | 1261.2 | 1224.9 | 1194.4 |
| 72.5° | 8125.7  | 2298.7 | 923.9  | 980.1  | 1139.4 | 1176.9 | 1612.5 | 1406.4 | 1176.9 | 1098.4 | 1051.6 |
| 75°   | 6673.6  | 1701.5 | 758.8  | 770.5  | 865.4  | 967.3  | 1419.3 | 1277.6 | 1077.3 | 943.8  | 907.5  |
| 77.5° | 4086.8  | 1041.0 | 604.2  | 608.9  | 620.6  | 771.7  | 1168.7 | 1133.5 | 950.9  | 786.9  | 761.2  |
| 80°   | 1323.2  | 567.9  | 436.8  | 459.0  | 423.9  | 565.6  | 904.0  | 964.9  | 816.2  | 658.1  | 630.0  |
| 82.5° | 503.5   | 331.4  | 295.1  | 310.3  | 293.9  | 379.4  | 659.3  | 772.9  | 668.6  | 541.0  | 440.3  |
| 85°   | 243.6   | 187.4  | 174.5  | 195.6  | 181.5  | 194.4  | 421.6  | 569.1  | 507.0  | 352.5  | 327.9  |
| 87.5° | 86.7    | 83.1   | 66.7   | 90.2   | 77.3   | 69.1   | 128.8  | 286.9  | 334.9  | 242.4  | 216.6  |
| 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)