

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: P192818

Luminaire Tested: **GAN-AF-10-LED-U-SL2-7030-600**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P192818  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-10-LED-U-SL2-7030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 36778.9 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
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: 28.75 FT



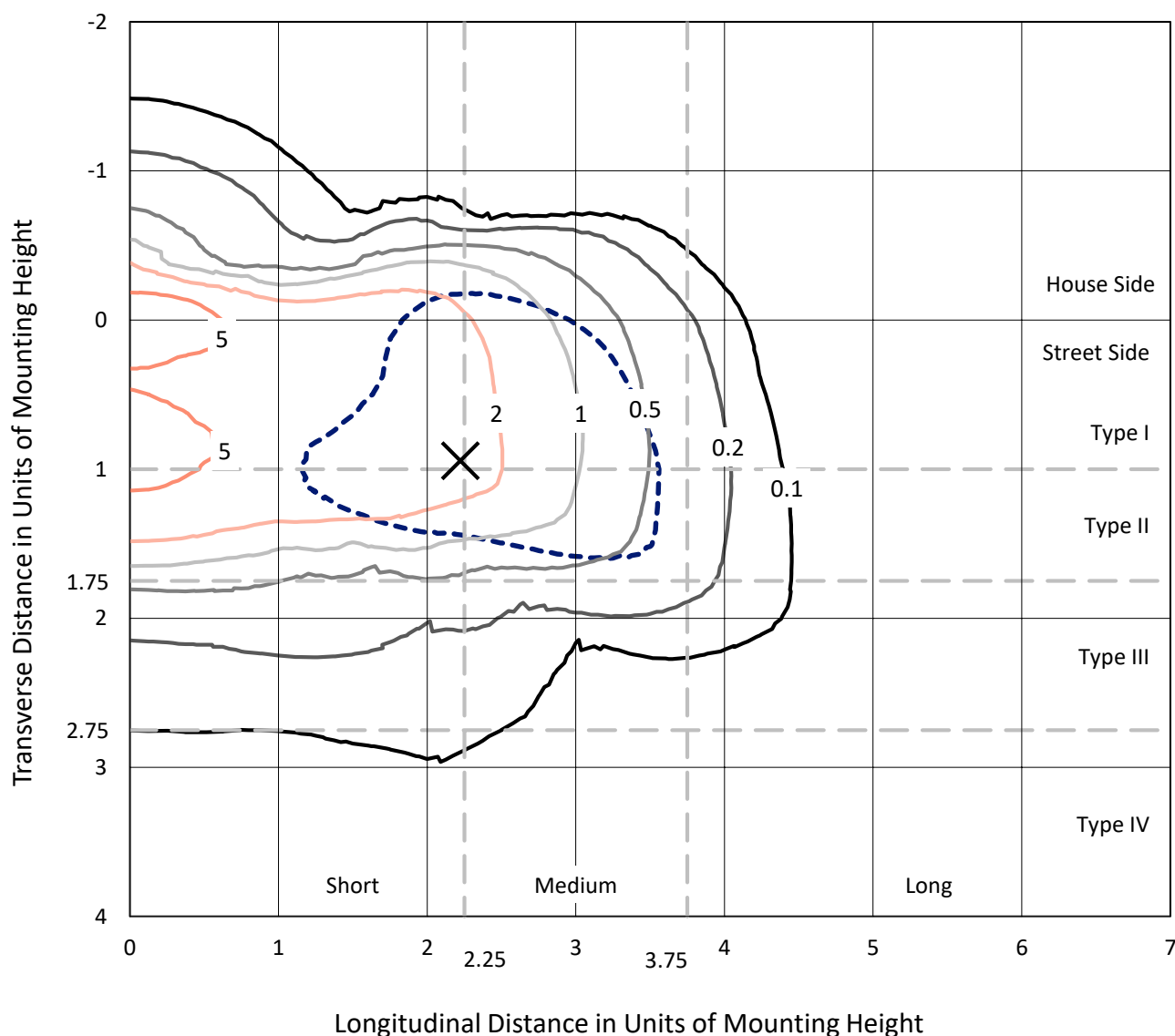
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

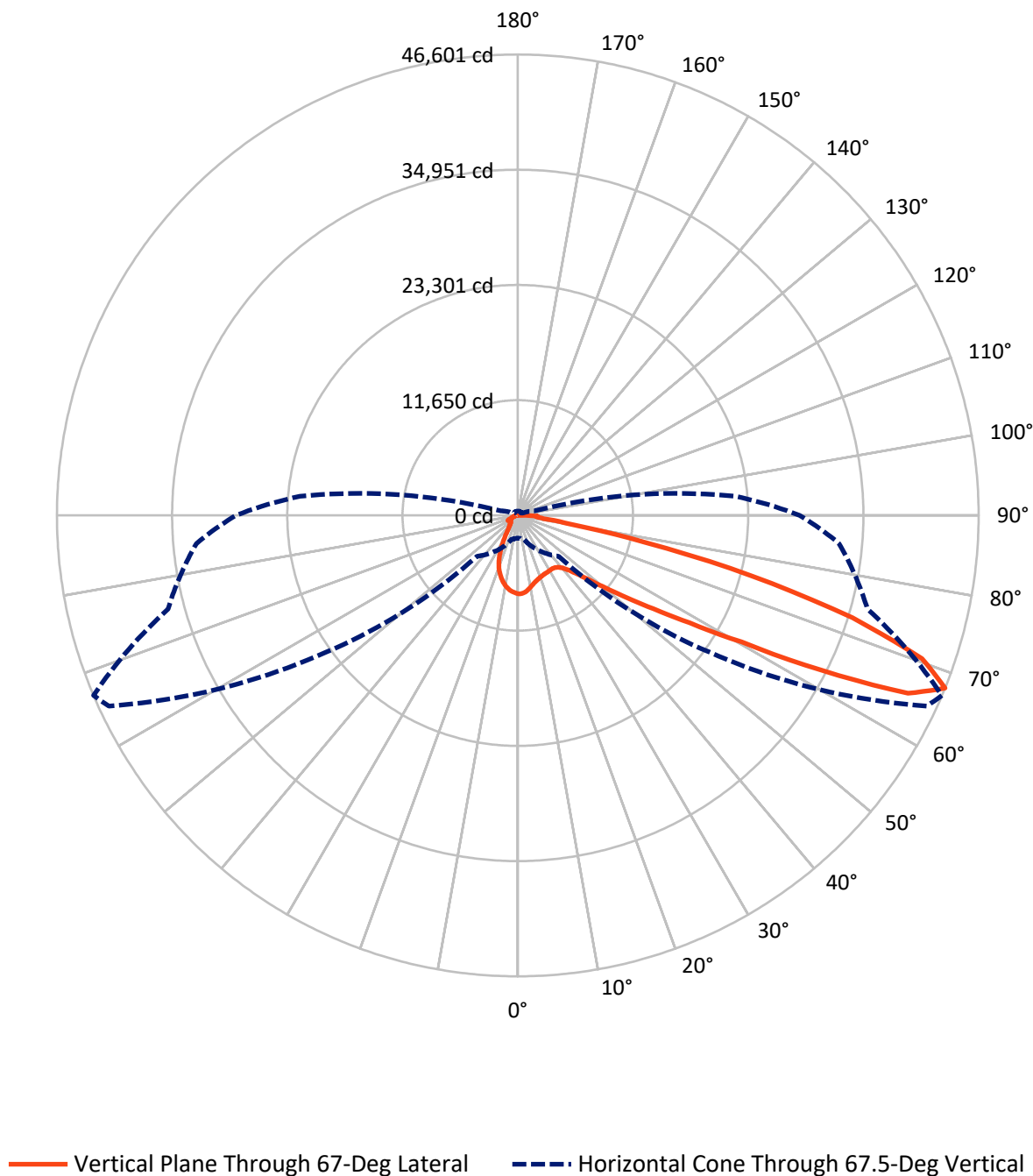


Based on 30 foot mounting height. Maximum calculated value = 8.8 fc  
 Type II - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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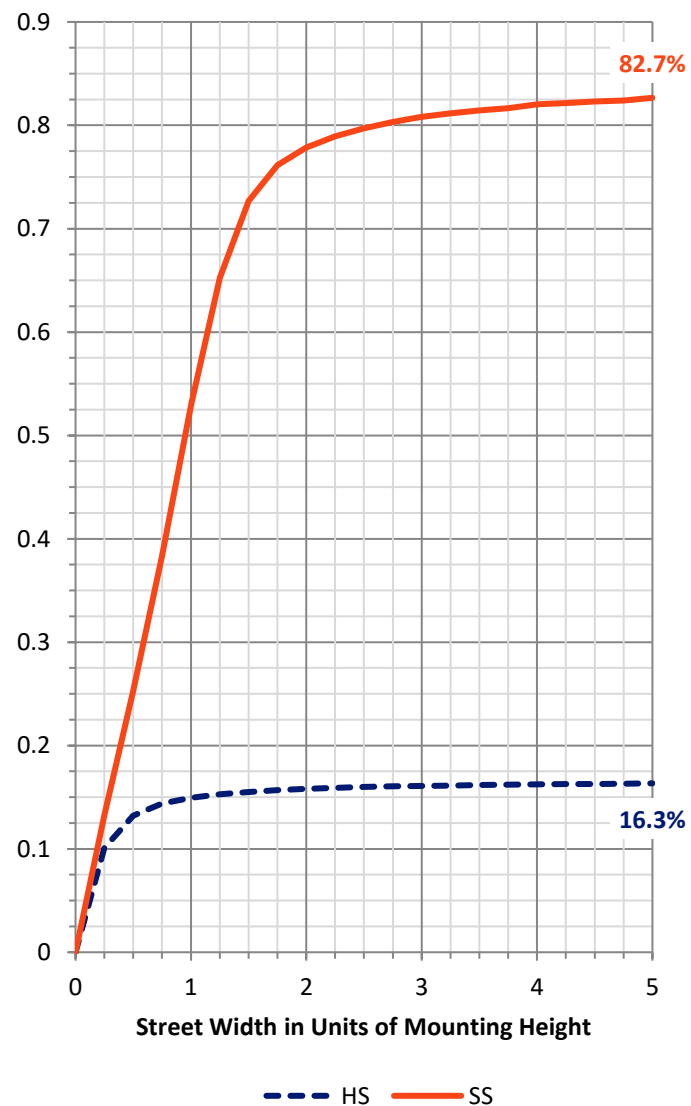
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6093.9   | 0.0    | 6093.9  |
|                    | % Fixture | 16.6     | 0.0    | 16.6    |
| <b>Street Side</b> | Lumens    | 30685.0  | 0.0    | 30685.0 |
|                    | % Fixture | 83.4     | 0.0    | 83.4    |
| <b>Total</b>       | Lumens    | 36778.9  | 0.0    | 36778.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 676.8   | 1.8       |
| 10°-20°   | 1566.0  | 4.3       |
| 20°-30°   | 2122.8  | 5.8       |
| 30°-40°   | 3017.8  | 8.2       |
| 40°-50°   | 5048.8  | 13.7      |
| 50°-60°   | 7987.2  | 21.7      |
| 60°-70°   | 10175.0 | 27.7      |
| 70°-80°   | 5329.6  | 14.5      |
| 80°-90°   | 854.8   | 2.3       |
| 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°    | 36778.9 | 100.0     |
| 0°-180°   | 36778.9 | 100.0     |

**Coefficient of Utilization**



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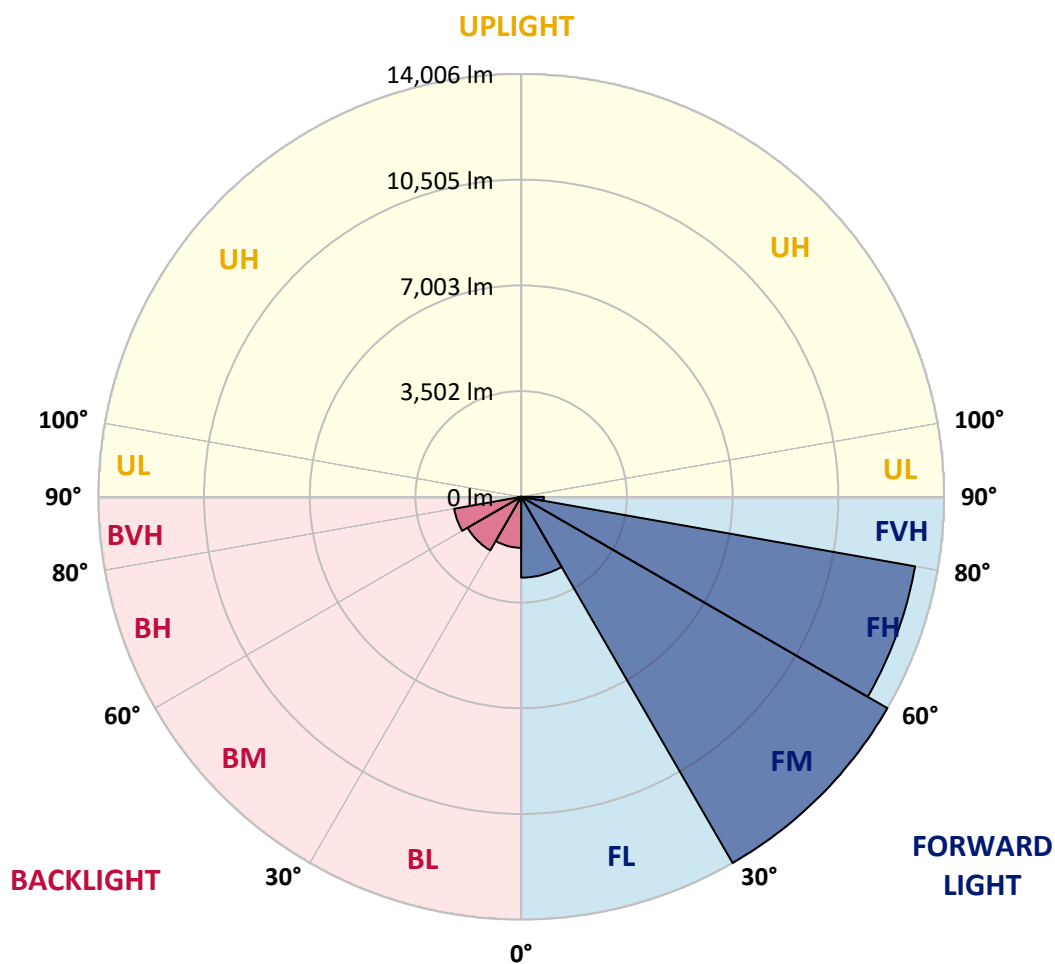
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2676.6  | 7.3       |                         |      |         |
| FM   | (30°-60°)   | 14006.2 | 38.1      |                         |      |         |
| FH   | (60°-80°)   | 13250.7 | 36.0      |                         |      | G5      |
| FVH  | (80°-90°)   | 751.6   | 2.0       |                         |      | G5      |
| BL   | (0°-30°)    | 1689.0  | 4.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2047.7  | 5.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 2253.9  | 6.1       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 103.2   | 0.3       |                         |      | 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 II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 67°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7933.1  | 7933.1  | 7933.1  | 7933.1  | 7933.1  | 7933.1  | 7933.1  | 7933.1  | 7933.1  | 7933.1  | 7933.1  |
| 2.5°  | 7606.6  | 7619.3  | 7659.3  | 7684.6  | 7798.9  | 7847.9  | 7882.3  | 7916.8  | 7922.3  | 7938.6  | 7922.3  |
| 5°    | 6808.6  | 6835.8  | 6910.2  | 6993.5  | 7214.9  | 7388.9  | 7572.2  | 7762.7  | 7797.1  | 7920.4  | 7954.8  |
| 7.5°  | 6190.2  | 6182.9  | 6244.6  | 6344.3  | 6571.1  | 6812.2  | 7133.3  | 7512.3  | 7586.8  | 7864.2  | 7998.5  |
| 10°   | 5738.6  | 5733.1  | 5798.4  | 5901.7  | 6117.7  | 6346.1  | 6708.8  | 7227.6  | 7332.8  | 7775.3  | 8040.2  |
| 12.5° | 5404.8  | 5406.5  | 5471.9  | 5586.2  | 5805.6  | 6036.0  | 6404.1  | 6951.9  | 7086.1  | 7671.9  | 8083.6  |
| 15°   | 5183.6  | 5198.0  | 5250.7  | 5372.2  | 5586.2  | 5816.5  | 6177.4  | 6745.1  | 6895.7  | 7590.4  | 8132.6  |
| 17.5° | 5109.2  | 5132.8  | 5150.9  | 5239.7  | 5423.0  | 5653.3  | 6007.0  | 6592.8  | 6752.4  | 7534.1  | 8176.2  |
| 20°   | 5178.2  | 5205.3  | 5170.8  | 5201.8  | 5317.7  | 5520.9  | 5872.8  | 6473.1  | 6636.3  | 7470.6  | 8181.6  |
| 22.5° | 5473.8  | 5499.1  | 5397.5  | 5308.7  | 5301.5  | 5424.7  | 5762.2  | 6378.8  | 6547.5  | 7423.5  | 8183.4  |
| 25°   | 5994.3  | 6010.6  | 5840.1  | 5633.3  | 5432.1  | 5390.3  | 5684.1  | 6313.4  | 6493.1  | 7381.8  | 8149.0  |
| 27.5° | 6632.7  | 6645.3  | 6449.5  | 6144.8  | 5740.4  | 5471.9  | 5656.9  | 6275.5  | 6462.2  | 7345.5  | 8090.8  |
| 30°   | 7409.0  | 7468.9  | 7205.8  | 6821.3  | 6231.8  | 5713.1  | 5711.3  | 6255.4  | 6427.7  | 7283.8  | 7976.7  |
| 32.5° | 8203.3  | 8228.8  | 8047.4  | 7657.4  | 6893.8  | 6137.5  | 5863.7  | 6270.0  | 6418.7  | 7209.5  | 7831.6  |
| 35°   | 9008.7  | 9041.3  | 8923.4  | 8609.6  | 7798.9  | 6759.7  | 6161.1  | 6355.2  | 6474.9  | 7184.1  | 7730.0  |
| 37.5° | 10051.6 | 10095.0 | 9931.7  | 9569.0  | 8899.8  | 7603.1  | 6656.3  | 6569.2  | 6647.3  | 7256.6  | 7699.2  |
| 40°   | 11700.1 | 11680.3 | 11203.2 | 10662.7 | 10104.1 | 8682.2  | 7363.6  | 6932.0  | 6977.3  | 7490.6  | 7793.5  |
| 42.5° | 13619.0 | 13570.1 | 12748.5 | 11899.7 | 11428.1 | 9988.1  | 8299.5  | 7561.3  | 7552.2  | 7951.3  | 8125.4  |
| 45°   | 15149.8 | 15109.9 | 14369.9 | 13323.4 | 12946.1 | 11475.3 | 9509.2  | 8498.9  | 8431.9  | 8682.2  | 8738.3  |
| 47.5° | 15978.6 | 15980.5 | 15554.2 | 14700.0 | 14690.9 | 13365.1 | 11063.6 | 9855.6  | 9739.6  | 9857.5  | 9797.6  |
| 50°   | 15688.4 | 15726.6 | 15681.2 | 15409.2 | 16283.4 | 15842.6 | 13093.1 | 11747.3 | 11513.3 | 11629.4 | 11399.1 |
| 52.5° | 14284.7 | 14333.6 | 14602.1 | 15019.3 | 16952.6 | 18837.1 | 16074.8 | 14097.8 | 13825.7 | 13784.0 | 13528.4 |
| 55°   | 11796.2 | 11856.2 | 12403.8 | 13537.4 | 16395.8 | 20848.5 | 20779.5 | 17094.0 | 16660.6 | 16267.1 | 16158.3 |
| 57.5° | 8130.8  | 8230.5  | 9112.0  | 10795.2 | 14594.9 | 21456.0 | 26382.1 | 21365.3 | 20483.9 | 19109.1 | 19134.5 |
| 60°   | 4583.2  | 4699.2  | 5738.6  | 7267.5  | 10960.2 | 20795.9 | 30644.2 | 27834.8 | 25973.9 | 22437.3 | 22625.9 |
| 62.5° | 2914.6  | 3039.7  | 3828.7  | 5049.3  | 6576.5  | 17241.0 | 32390.8 | 36828.9 | 34465.8 | 26539.8 | 26724.9 |
| 65°   | 2359.7  | 2414.1  | 2785.8  | 4167.9  | 4775.5  | 10387.1 | 31065.0 | 44237.9 | 43356.4 | 31746.9 | 30883.7 |
| 67.5° | 2303.4  | 2321.5  | 2513.8  | 3498.6  | 4579.6  | 5838.3  | 24778.7 | 45623.5 | 46601.2 | 36609.5 | 32615.7 |
| 70°   | 2276.2  | 2339.7  | 2833.0  | 3339.0  | 4385.5  | 4924.2  | 14890.4 | 41825.6 | 43369.2 | 37880.8 | 30310.4 |
| 72.5° | 1104.5  | 1100.9  | 1425.7  | 3019.8  | 4940.4  | 5107.4  | 7650.3  | 33841.8 | 35390.7 | 32818.9 | 24907.5 |
| 75°   | 890.6   | 814.3   | 778.0   | 1106.4  | 4750.0  | 5274.3  | 4875.2  | 23286.1 | 24406.9 | 22003.7 | 15311.3 |
| 77.5° | 845.2   | 754.6   | 691.1   | 692.8   | 2007.7  | 5593.4  | 4129.8  | 12888.1 | 13214.6 | 9939.1  | 4195.1  |
| 80°   | 700.2   | 616.7   | 571.3   | 643.9   | 972.2   | 5326.8  | 4465.3  | 5832.8  | 5352.2  | 2441.3  | 1396.6  |
| 82.5° | 486.1   | 442.5   | 429.8   | 540.5   | 778.0   | 3796.1  | 5192.6  | 3134.1  | 2628.0  | 1222.4  | 861.5   |
| 85°   | 310.2   | 264.9   | 293.8   | 393.6   | 605.8   | 1752.1  | 5348.6  | 2443.0  | 1942.5  | 776.3   | 486.1   |
| 87.5° | 143.2   | 116.1   | 145.1   | 217.7   | 395.4   | 603.9   | 5089.2  | 2744.1  | 2000.5  | 409.9   | 306.5   |
| 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°    | 7933.1  | 7933.1  | 7933.1 | 7933.1 | 7933.1 | 7933.1 | 7933.1 | 7933.1 | 7933.1 | 7933.1 | 7933.1 |
| 2.5°  | 7936.7  | 7902.2  | 7875.1 | 7824.3 | 7768.2 | 7713.7 | 7664.6 | 7603.1 | 7584.9 | 7568.6 | 7593.9 |
| 5°    | 7962.2  | 7927.7  | 7827.9 | 7671.9 | 7499.7 | 7338.2 | 7176.8 | 7038.9 | 6953.7 | 6906.6 | 6933.8 |
| 7.5°  | 8000.2  | 7951.3  | 7744.6 | 7457.9 | 7147.7 | 6864.9 | 6572.8 | 6338.9 | 6166.6 | 6084.9 | 6108.5 |
| 10°   | 8034.7  | 7940.4  | 7603.1 | 7173.2 | 6719.8 | 6299.1 | 5838.3 | 5457.4 | 5174.5 | 5025.7 | 5062.0 |
| 12.5° | 8049.2  | 7898.7  | 7405.4 | 6817.7 | 6195.5 | 5578.9 | 4900.6 | 4331.1 | 3924.8 | 3776.1 | 3745.3 |
| 15°   | 8063.7  | 7851.5  | 7187.7 | 6413.2 | 5562.6 | 4690.2 | 3739.8 | 3057.8 | 2720.5 | 2646.2 | 2629.9 |
| 17.5° | 8067.3  | 7769.9  | 6941.0 | 5974.3 | 4820.8 | 3632.9 | 2557.3 | 2123.9 | 2125.6 | 2245.4 | 2259.9 |
| 20°   | 8029.3  | 7648.3  | 6641.8 | 5428.4 | 3932.1 | 2512.0 | 1755.7 | 1681.3 | 1955.2 | 2254.4 | 2290.7 |
| 22.5° | 7942.2  | 7487.0  | 6302.6 | 4791.8 | 2914.6 | 1654.0 | 1358.4 | 1440.0 | 1793.7 | 2160.2 | 2201.8 |
| 25°   | 7831.6  | 7291.1  | 5901.7 | 4053.6 | 1929.7 | 1182.5 | 1139.0 | 1238.8 | 1478.2 | 1723.0 | 1746.6 |
| 27.5° | 7681.0  | 7058.9  | 5451.9 | 3208.4 | 1253.3 | 973.9  | 1003.0 | 1070.0 | 1168.0 | 1276.8 | 1287.7 |
| 30°   | 7487.0  | 6781.4  | 4971.3 | 2339.7 | 946.7  | 876.0  | 917.8  | 954.1  | 995.7  | 1057.4 | 1062.9 |
| 32.5° | 7263.9  | 6514.8  | 4478.0 | 1616.1 | 839.7  | 825.2  | 857.9  | 876.0  | 908.7  | 946.7  | 950.3  |
| 35°   | 7077.0  | 6260.9  | 3966.5 | 1142.7 | 794.5  | 787.1  | 808.9  | 816.1  | 847.0  | 888.8  | 892.3  |
| 37.5° | 6970.0  | 6054.2  | 3438.7 | 921.4  | 763.6  | 752.7  | 765.4  | 765.4  | 808.9  | 870.6  | 879.6  |
| 40°   | 6977.3  | 5939.9  | 2911.0 | 832.4  | 738.1  | 723.7  | 725.5  | 725.5  | 781.7  | 848.8  | 854.3  |
| 42.5° | 7174.9  | 5968.9  | 2443.0 | 798.0  | 718.3  | 701.9  | 692.8  | 698.2  | 745.4  | 789.0  | 792.5  |
| 45°   | 7639.3  | 6173.8  | 2004.2 | 776.3  | 698.2  | 692.8  | 672.9  | 671.1  | 689.2  | 709.2  | 709.2  |
| 47.5° | 8401.1  | 6578.3  | 1706.7 | 761.7  | 682.0  | 680.1  | 656.5  | 632.9  | 631.2  | 638.4  | 638.4  |
| 50°   | 9639.8  | 7274.7  | 1507.2 | 745.4  | 671.1  | 656.5  | 629.4  | 593.1  | 580.3  | 585.8  | 585.8  |
| 52.5° | 11497.1 | 8517.1  | 1431.0 | 723.7  | 647.5  | 623.9  | 593.1  | 556.7  | 546.0  | 547.7  | 547.7  |
| 55°   | 13932.8 | 10425.1 | 1420.2 | 698.2  | 622.1  | 584.0  | 558.7  | 531.4  | 518.8  | 522.4  | 522.4  |
| 57.5° | 16909.1 | 13064.0 | 1614.2 | 658.4  | 587.6  | 544.1  | 529.6  | 511.5  | 502.4  | 507.8  | 506.0  |
| 60°   | 20527.4 | 16517.4 | 2394.1 | 616.7  | 553.2  | 507.8  | 507.8  | 493.3  | 486.1  | 491.5  | 489.7  |
| 62.5° | 24695.4 | 20483.9 | 3366.2 | 585.8  | 516.9  | 478.8  | 486.1  | 478.8  | 471.6  | 475.2  | 473.4  |
| 65°   | 28391.6 | 23068.5 | 3152.2 | 562.2  | 480.6  | 451.6  | 464.4  | 460.6  | 455.3  | 458.9  | 457.0  |
| 67.5° | 28498.6 | 22110.8 | 1770.2 | 536.9  | 446.3  | 424.4  | 442.5  | 440.8  | 437.1  | 440.8  | 438.9  |
| 70°   | 25433.5 | 18670.2 | 997.5  | 489.7  | 409.9  | 391.8  | 417.2  | 415.3  | 411.7  | 419.0  | 417.2  |
| 72.5° | 20376.9 | 13548.3 | 729.1  | 431.7  | 373.6  | 357.3  | 386.3  | 384.5  | 384.5  | 395.4  | 389.9  |
| 75°   | 11725.6 | 6971.9  | 582.3  | 370.0  | 335.5  | 322.9  | 348.2  | 350.0  | 353.7  | 368.2  | 357.3  |
| 77.5° | 3342.7  | 2172.8  | 475.2  | 313.8  | 288.3  | 283.0  | 308.3  | 311.9  | 313.8  | 330.1  | 315.5  |
| 80°   | 1242.4  | 1001.2  | 391.8  | 263.0  | 235.8  | 237.6  | 261.1  | 266.6  | 268.4  | 284.7  | 266.6  |
| 82.5° | 792.5   | 660.2   | 317.4  | 203.1  | 184.9  | 183.2  | 212.2  | 219.5  | 219.5  | 221.2  | 210.5  |
| 85°   | 462.5   | 395.4   | 239.4  | 147.0  | 130.6  | 125.1  | 157.8  | 170.5  | 165.1  | 161.3  | 154.2  |
| 87.5° | 310.2   | 272.0   | 147.0  | 81.6   | 70.7   | 67.0   | 92.6   | 101.6  | 97.9   | 92.6   | 87.1   |
| 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)