

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: P193768

Luminaire Tested: **GAN-AF-10-LED-U-SL4-8030-1200-HSS**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P193768  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
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-SL4-8030-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 42803 lumens  
Efficiency: N/A  
Efficacy: 66.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - 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: 28.75 FT



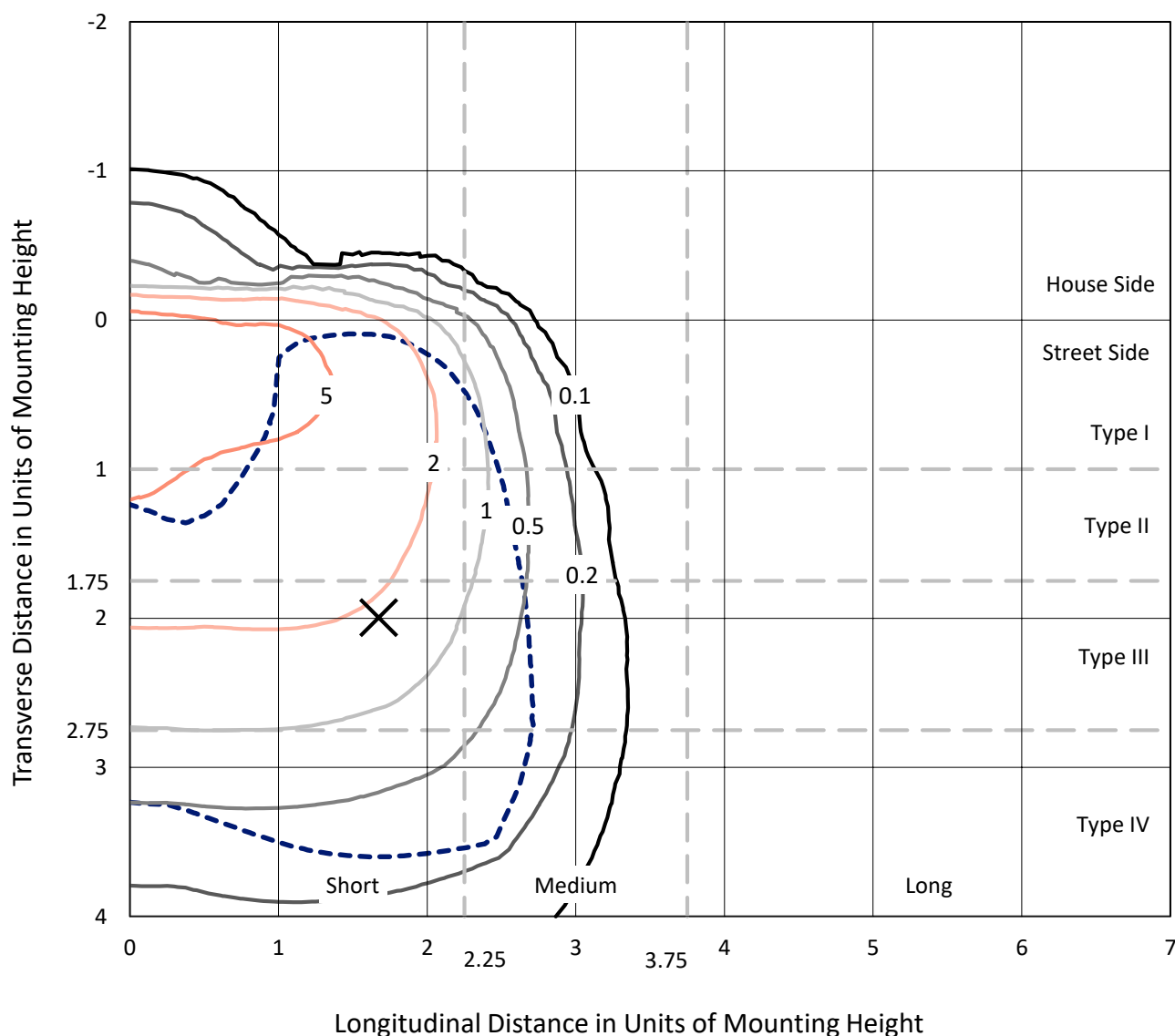
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

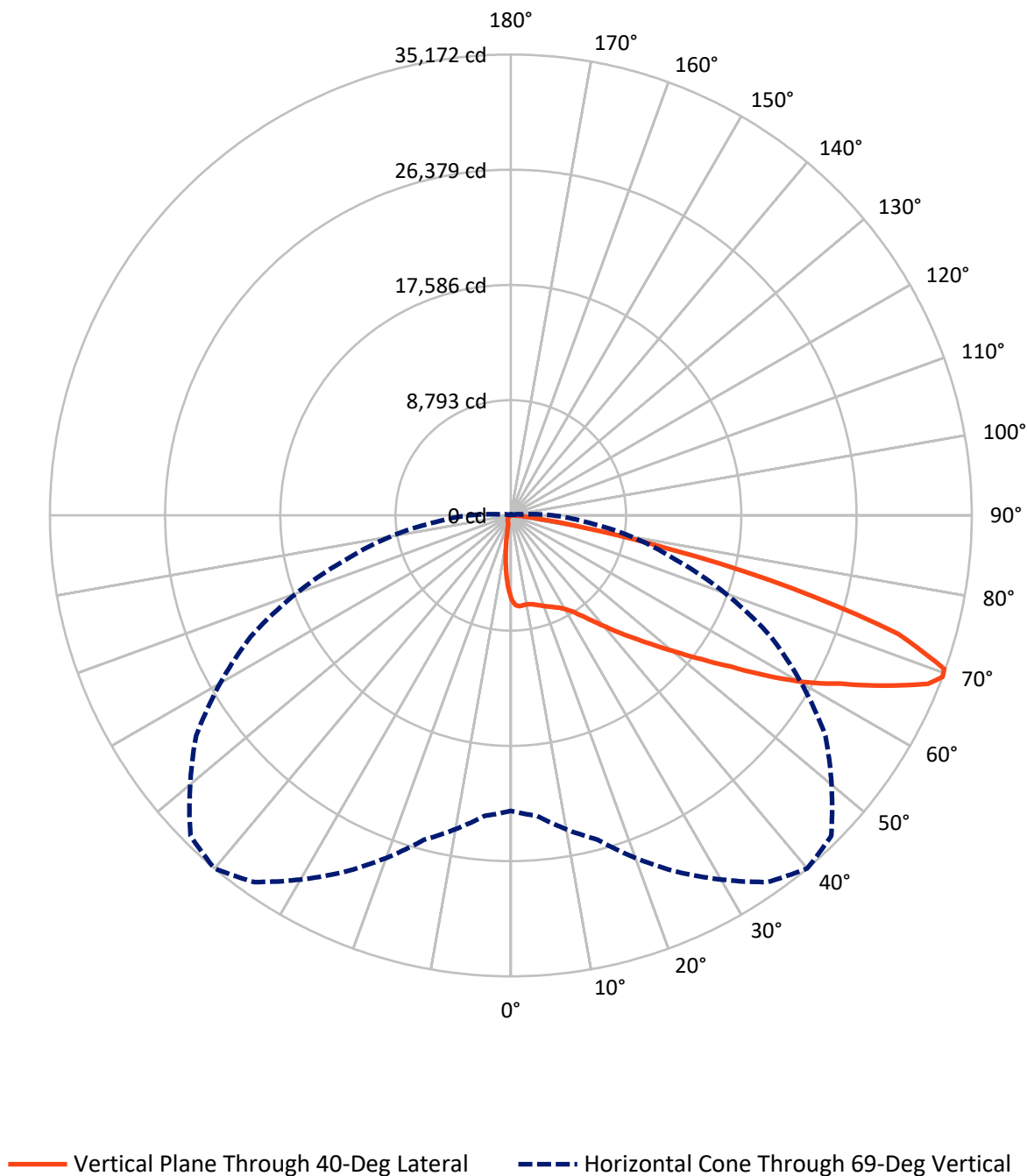


Based on 30 foot mounting height. Maximum calculated value = 7.8 fc  
Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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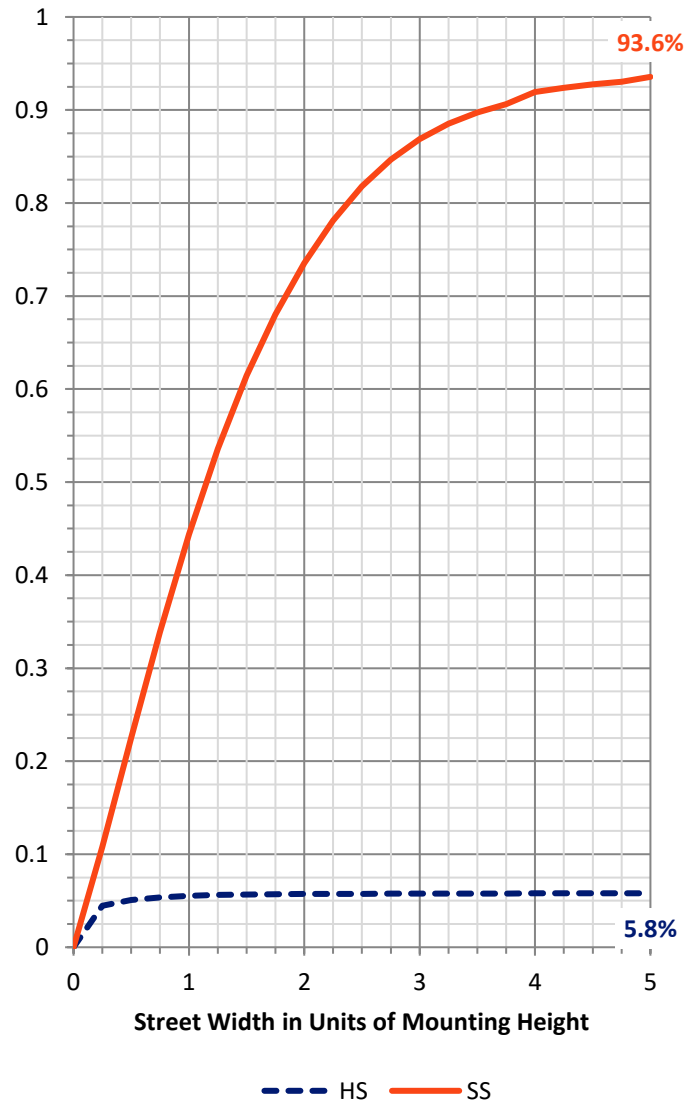
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2504.2   | 0.0    | 2504.2  |
|                    | % Fixture | 5.9      | 0.0    | 5.9     |
| <b>Street Side</b> | Lumens    | 40298.8  | 0.0    | 40298.8 |
|                    | % Fixture | 94.1     | 0.0    | 94.1    |
| <b>Total</b>       | Lumens    | 42803.0  | 0.0    | 42803.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 518.5   | 1.2       |
| 10°-20°   | 1275.1  | 3.0       |
| 20°-30°   | 2147.7  | 5.0       |
| 30°-40°   | 3515.9  | 8.2       |
| 40°-50°   | 6087.6  | 14.2      |
| 50°-60°   | 9588.6  | 22.4      |
| 60°-70°   | 12522.4 | 29.3      |
| 70°-80°   | 6449.6  | 15.1      |
| 80°-90°   | 697.7   | 1.6       |
| 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°    | 42803.0 | 100.0     |
| 0°-180°   | 42803.0 | 100.0     |

**Coefficient of Utilization**



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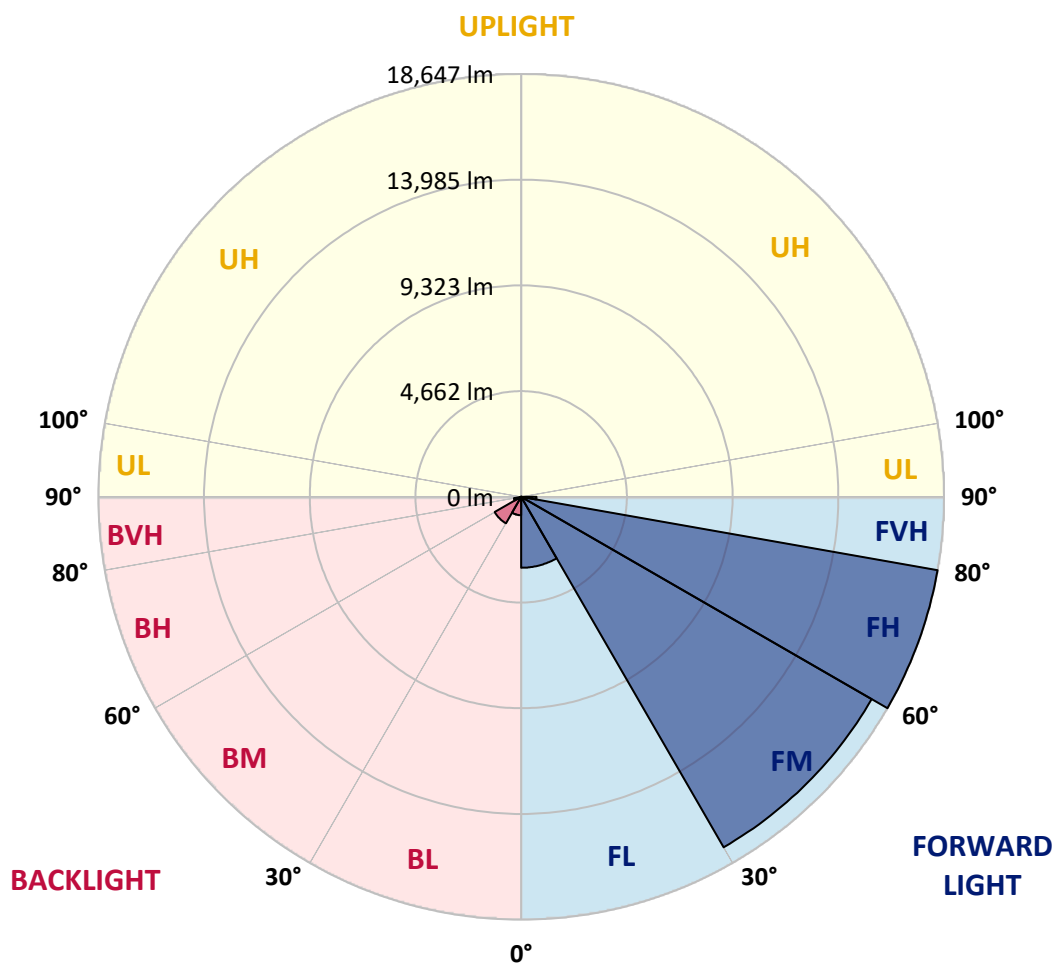
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 3130.1  | 7.3       |                         |      |        |
| FM   | (30°-60°)   | 17846.2 | 41.7      |                         |      |        |
| FH   | (60°-80°)   | 18646.7 | 43.6      |                         |      | G5     |
| FVH  | (80°-90°)   | 675.8   | 1.6       |                         |      | G4/750 |
| BL   | (0°-30°)    | 811.2   | 1.9       | B2/1000                 |      |        |
| BM   | (30°-60°)   | 1346.0  | 3.1       | B2/2500                 |      |        |
| BH   | (60°-80°)   | 325.2   | 0.8       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 21.9    | 0.1       |                         |      | G1/100 |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 40°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6395.0  | 6395.0  | 6395.0  | 6395.0  | 6395.0  | 6395.0  | 6395.0  | 6395.0  | 6395.0  | 6395.0  | 6395.0  |
| 2.5°  | 7021.7  | 6983.5  | 6960.6  | 6930.0  | 6891.8  | 6858.7  | 6845.9  | 6751.7  | 6662.5  | 6540.2  | 6400.1  |
| 5°    | 7151.7  | 7138.9  | 7098.2  | 7057.4  | 7011.6  | 6960.6  | 6932.6  | 6820.5  | 6693.1  | 6514.7  | 6270.1  |
| 7.5°  | 7164.4  | 7149.1  | 7098.2  | 7042.1  | 6978.4  | 6917.3  | 6868.9  | 6756.8  | 6639.6  | 6458.7  | 6160.6  |
| 10°   | 7144.0  | 7126.2  | 7088.0  | 7026.8  | 6947.9  | 6889.3  | 6840.9  | 6733.8  | 6634.5  | 6471.4  | 6140.2  |
| 12.5° | 7121.1  | 7103.3  | 7085.4  | 7054.9  | 6986.1  | 6945.3  | 6904.5  | 6802.6  | 6713.5  | 6575.9  | 6214.1  |
| 15°   | 7144.0  | 7133.9  | 7154.2  | 7141.5  | 7103.3  | 7067.6  | 7026.8  | 6935.1  | 6853.6  | 6738.9  | 6349.1  |
| 17.5° | 7240.9  | 7240.9  | 7304.6  | 7312.2  | 7276.5  | 7225.6  | 7167.0  | 7075.3  | 7006.5  | 6909.6  | 6509.6  |
| 20°   | 7467.6  | 7460.0  | 7541.5  | 7556.8  | 7470.2  | 7391.2  | 7304.6  | 7192.5  | 7138.9  | 7077.8  | 6667.6  |
| 22.5° | 7857.4  | 7821.8  | 7870.2  | 7854.9  | 7684.2  | 7561.9  | 7454.9  | 7317.3  | 7289.3  | 7261.2  | 6843.4  |
| 25°   | 8364.4  | 8344.1  | 8377.2  | 8226.9  | 7926.2  | 7760.6  | 7633.2  | 7477.8  | 7477.8  | 7505.8  | 7042.1  |
| 27.5° | 9100.8  | 9024.3  | 8912.2  | 8647.2  | 8196.3  | 7984.8  | 7847.2  | 7681.6  | 7724.9  | 7829.4  | 7304.6  |
| 30°   | 9854.9  | 9770.8  | 9513.5  | 9105.9  | 8525.0  | 8303.3  | 8142.8  | 7969.5  | 8071.4  | 8262.5  | 7656.2  |
| 32.5° | 10598.9 | 10504.6 | 10140.3 | 9625.6  | 8996.3  | 8774.6  | 8619.2  | 8428.1  | 8598.8  | 8919.9  | 8170.8  |
| 35°   | 11319.9 | 11235.8 | 10815.4 | 10209.1 | 9623.1  | 9439.6  | 9296.9  | 9131.3  | 9350.4  | 9798.9  | 8896.9  |
| 37.5° | 12130.1 | 12038.4 | 11526.3 | 10868.9 | 10384.8 | 10252.4 | 10147.9 | 9982.3  | 10364.5 | 11021.8 | 9908.4  |
| 40°   | 13126.3 | 12970.9 | 12280.4 | 11625.6 | 11266.4 | 11202.7 | 11131.4 | 11108.4 | 11702.1 | 12611.6 | 11256.2 |
| 42.5° | 14267.7 | 14012.9 | 13070.2 | 12423.1 | 12234.6 | 12280.4 | 12262.6 | 12364.5 | 13376.0 | 14588.7 | 12897.0 |
| 45°   | 15409.1 | 15080.5 | 13949.2 | 13274.1 | 13299.5 | 13460.0 | 13559.4 | 13967.1 | 15472.8 | 16856.3 | 14662.6 |
| 47.5° | 16377.3 | 16053.7 | 14792.6 | 14193.8 | 14499.6 | 14815.5 | 15085.5 | 15857.5 | 17628.3 | 19088.1 | 16035.9 |
| 50°   | 17205.3 | 16899.6 | 15686.8 | 15205.3 | 15893.2 | 16402.8 | 16841.0 | 17984.9 | 19946.8 | 20787.5 | 16998.9 |
| 52.5° | 17883.0 | 17679.2 | 16614.2 | 16364.5 | 17485.6 | 18232.1 | 18874.1 | 20244.9 | 22000.3 | 22168.4 | 17748.0 |
| 55°   | 18542.9 | 18397.7 | 17610.4 | 17742.9 | 19355.7 | 20372.2 | 21185.0 | 22642.3 | 23768.5 | 23320.1 | 18466.5 |
| 57.5° | 19302.2 | 19169.7 | 18746.7 | 19490.7 | 21814.3 | 23093.3 | 23979.9 | 24767.2 | 25325.2 | 24497.1 | 19144.2 |
| 60°   | 20076.7 | 20000.3 | 20010.5 | 21432.1 | 24637.3 | 25865.3 | 26354.5 | 26558.3 | 26853.9 | 25605.4 | 19182.4 |
| 62.5° | 20815.6 | 20960.8 | 21455.1 | 23592.7 | 27340.5 | 28283.2 | 28530.3 | 28731.6 | 28385.1 | 25781.2 | 17722.5 |
| 65°   | 22066.5 | 22303.5 | 23483.1 | 26484.4 | 30313.8 | 31322.7 | 31577.5 | 30887.0 | 28627.1 | 23508.6 | 14415.5 |
| 67.5° | 22678.0 | 23111.1 | 25215.6 | 29180.0 | 33197.9 | 34318.9 | 34224.7 | 31027.2 | 25689.5 | 17926.3 | 9251.1  |
| 69°   | 22550.6 | 23011.8 | 25615.6 | 30005.5 | 34155.9 | 35172.4 | 34573.7 | 29312.5 | 21885.6 | 12986.2 | 5679.1  |
| 70°   | 22046.1 | 22512.4 | 25409.3 | 29974.9 | 34278.2 | 35083.3 | 33926.6 | 27195.3 | 18504.7 | 9495.7  | 3551.6  |
| 72.5° | 18410.4 | 18813.0 | 22558.3 | 27093.3 | 31577.5 | 30922.7 | 28382.5 | 18841.0 | 9016.7  | 2586.0  | 800.0   |
| 75°   | 11332.6 | 11556.8 | 16186.2 | 20410.5 | 23850.0 | 22168.4 | 18909.8 | 9373.4  | 2687.9  | 731.2   | 443.3   |
| 77.5° | 5987.3  | 6089.3  | 8861.3  | 12030.7 | 15118.7 | 12509.7 | 9691.8  | 3656.1  | 1238.2  | 458.6   | 321.0   |
| 80°   | 3538.9  | 3615.3  | 4772.0  | 5500.7  | 6542.8  | 5465.0  | 3875.2  | 2244.6  | 886.6   | 287.9   | 285.4   |
| 82.5° | 2025.5  | 2073.9  | 3459.9  | 3057.4  | 2578.4  | 2201.3  | 1928.7  | 2127.4  | 532.5   | 193.6   | 295.5   |
| 85°   | 744.0   | 754.2   | 1946.5  | 2326.1  | 1533.8  | 912.1   | 958.0   | 1763.1  | 142.7   | 122.3   | 231.9   |
| 87.5° | 346.5   | 338.9   | 1001.3  | 1424.2  | 896.8   | 578.4   | 746.5   | 387.3   | 56.1    | 79.0    | 63.7    |
| 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°    | 6395.0  | 6395.0 | 6395.0 | 6395.0 | 6395.0 | 6395.0 | 6395.0 | 6395.0 | 6395.0 | 6395.0 | 6395.0 |
| 2.5°  | 6318.6  | 6224.3 | 6053.6 | 5877.8 | 5699.4 | 5561.9 | 5426.8 | 5319.8 | 5284.1 | 5217.9 | 5223.0 |
| 5°    | 6124.9  | 5951.7 | 5595.0 | 5233.2 | 4856.1 | 4545.3 | 4252.3 | 4015.3 | 3900.7 | 3783.5 | 3783.5 |
| 7.5°  | 5956.8  | 5704.5 | 5146.6 | 4558.0 | 3949.1 | 3437.0 | 2975.8 | 2629.3 | 2438.2 | 2285.4 | 2282.8 |
| 10°   | 5893.1  | 5551.7 | 4772.0 | 3928.7 | 3080.3 | 2382.2 | 1834.4 | 1482.8 | 1301.9 | 1184.7 | 1179.6 |
| 12.5° | 5921.1  | 5498.2 | 4484.1 | 3347.8 | 2282.8 | 1531.2 | 1062.4 | 835.7  | 759.2  | 723.6  | 723.6  |
| 15°   | 6002.6  | 5482.9 | 4196.2 | 2779.7 | 1612.8 | 958.0  | 705.7  | 644.6  | 639.5  | 639.5  | 639.5  |
| 17.5° | 6102.0  | 5488.0 | 3900.7 | 2226.8 | 1098.1 | 685.4  | 608.9  | 601.3  | 606.4  | 606.4  | 606.4  |
| 20°   | 6203.9  | 5490.5 | 3582.2 | 1714.7 | 774.5  | 596.2  | 573.3  | 570.7  | 575.8  | 575.8  | 578.4  |
| 22.5° | 6328.7  | 5503.3 | 3263.7 | 1281.5 | 639.5  | 563.1  | 545.2  | 545.2  | 547.8  | 547.8  | 545.2  |
| 25°   | 6471.4  | 5528.7 | 2932.5 | 950.3  | 583.4  | 540.1  | 524.8  | 522.3  | 524.8  | 522.3  | 519.8  |
| 27.5° | 6649.8  | 5564.4 | 2563.1 | 744.0  | 558.0  | 517.2  | 504.5  | 504.5  | 501.9  | 499.4  | 496.8  |
| 30°   | 6874.0  | 5605.2 | 2147.8 | 631.9  | 532.5  | 496.8  | 484.1  | 481.5  | 479.0  | 473.9  | 473.9  |
| 32.5° | 7215.4  | 5694.3 | 1737.6 | 573.3  | 504.5  | 468.8  | 458.6  | 458.6  | 453.5  | 448.4  | 445.9  |
| 35°   | 7740.2  | 5870.1 | 1370.7 | 537.6  | 473.9  | 438.2  | 425.5  | 425.5  | 420.4  | 417.8  | 415.3  |
| 37.5° | 8466.4  | 6137.7 | 1065.0 | 504.5  | 443.3  | 405.1  | 392.4  | 389.8  | 384.7  | 379.6  | 377.1  |
| 40°   | 9432.0  | 6468.9 | 838.2  | 473.9  | 412.7  | 372.0  | 361.8  | 356.7  | 346.5  | 338.9  | 338.9  |
| 42.5° | 10644.7 | 6845.9 | 680.3  | 440.8  | 377.1  | 341.4  | 333.8  | 326.1  | 308.3  | 300.6  | 298.1  |
| 45°   | 11913.5 | 7184.8 | 575.8  | 402.6  | 341.4  | 310.8  | 305.7  | 293.0  | 270.1  | 262.4  | 262.4  |
| 47.5° | 12828.2 | 7263.8 | 507.0  | 366.9  | 308.3  | 277.7  | 275.2  | 252.2  | 231.9  | 226.8  | 224.2  |
| 50°   | 13398.9 | 7108.4 | 451.0  | 331.2  | 277.7  | 247.1  | 239.5  | 211.5  | 198.7  | 193.6  | 191.1  |
| 52.5° | 13783.6 | 6830.7 | 405.1  | 300.6  | 249.7  | 219.1  | 201.3  | 180.9  | 170.7  | 165.6  | 165.6  |
| 55°   | 14091.9 | 6438.3 | 359.2  | 272.6  | 226.8  | 196.2  | 170.7  | 155.4  | 145.2  | 140.1  | 140.1  |
| 57.5° | 14178.5 | 5905.8 | 313.4  | 249.7  | 203.8  | 173.3  | 145.2  | 135.0  | 122.3  | 119.7  | 119.7  |
| 60°   | 13549.2 | 4945.3 | 277.7  | 221.7  | 183.4  | 150.3  | 127.4  | 114.7  | 101.9  | 99.4   | 96.8   |
| 62.5° | 11890.6 | 3826.8 | 244.6  | 196.2  | 160.5  | 129.9  | 109.6  | 94.3   | 84.1   | 84.1   | 84.1   |
| 65°   | 9070.2  | 2565.6 | 214.0  | 170.7  | 140.1  | 109.6  | 94.3   | 76.4   | 71.3   | 71.3   | 73.9   |
| 67.5° | 5429.4  | 1396.2 | 183.4  | 145.2  | 119.7  | 91.7   | 79.0   | 66.2   | 63.7   | 66.2   | 66.2   |
| 69°   | 3182.2  | 820.4  | 165.6  | 129.9  | 104.5  | 81.5   | 68.8   | 58.6   | 63.7   | 66.2   | 66.2   |
| 70°   | 1964.4  | 552.9  | 152.9  | 117.2  | 94.3   | 73.9   | 63.7   | 56.1   | 61.1   | 63.7   | 63.7   |
| 72.5° | 547.8   | 285.4  | 122.3  | 91.7   | 76.4   | 61.1   | 51.0   | 51.0   | 58.6   | 61.1   | 61.1   |
| 75°   | 356.7   | 211.5  | 94.3   | 68.8   | 58.6   | 48.4   | 43.3   | 48.4   | 56.1   | 58.6   | 58.6   |
| 77.5° | 295.5   | 173.3  | 76.4   | 56.1   | 48.4   | 45.9   | 40.8   | 43.3   | 51.0   | 53.5   | 53.5   |
| 80°   | 270.1   | 122.3  | 61.1   | 51.0   | 43.3   | 40.8   | 38.2   | 35.7   | 45.9   | 48.4   | 48.4   |
| 82.5° | 257.3   | 96.8   | 53.5   | 45.9   | 40.8   | 35.7   | 33.1   | 35.7   | 40.8   | 43.3   | 45.9   |
| 85°   | 160.5   | 63.7   | 48.4   | 43.3   | 35.7   | 33.1   | 33.1   | 33.1   | 38.2   | 40.8   | 40.8   |
| 87.5° | 58.6    | 51.0   | 43.3   | 35.7   | 30.6   | 30.6   | 30.6   | 30.6   | 33.1   | 38.2   | 38.2   |
| 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)