

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: P319329

Luminaire Tested: **GAN-SA5C-730-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319329  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5C-730-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1050mA 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: 31538 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

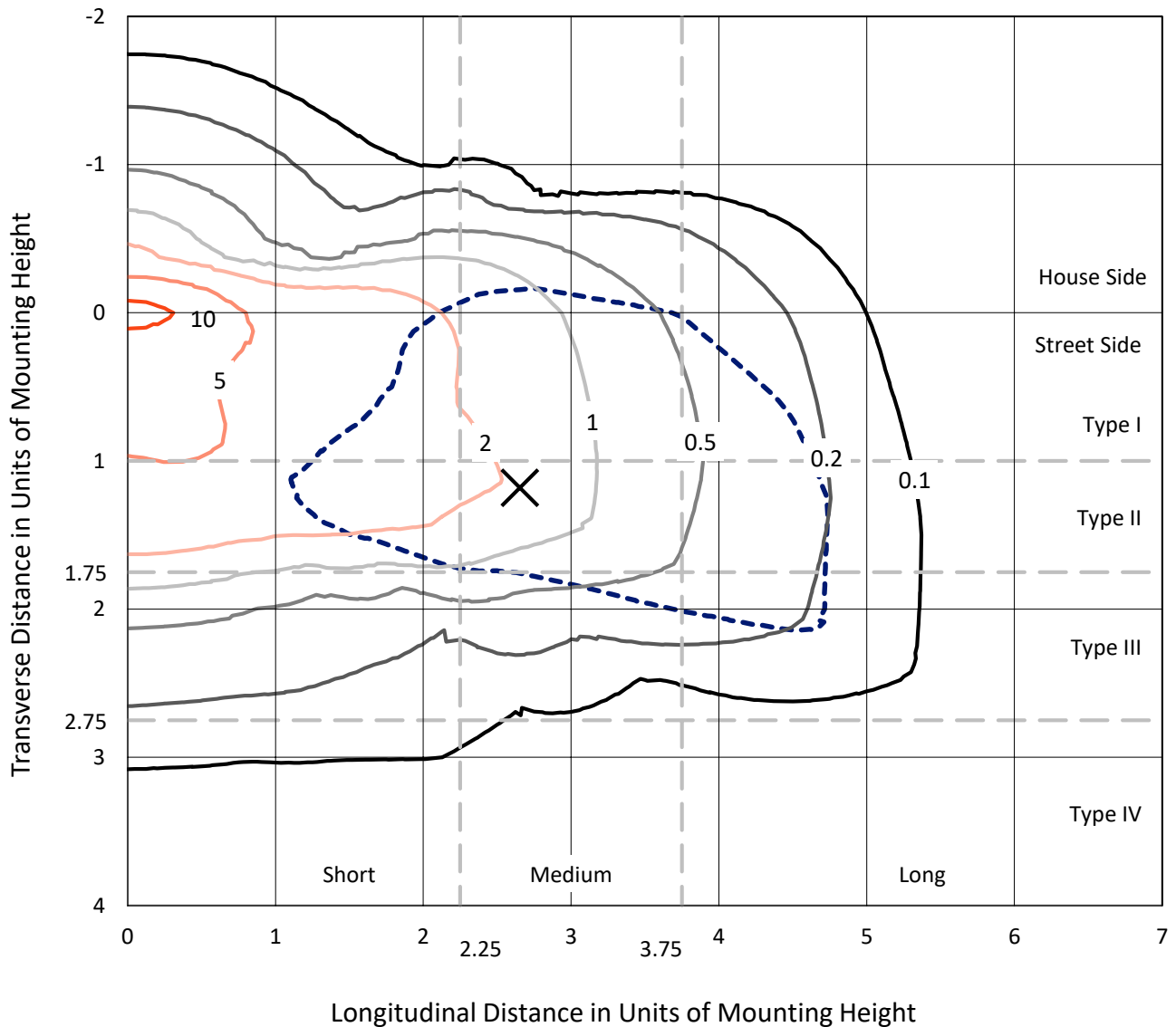
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

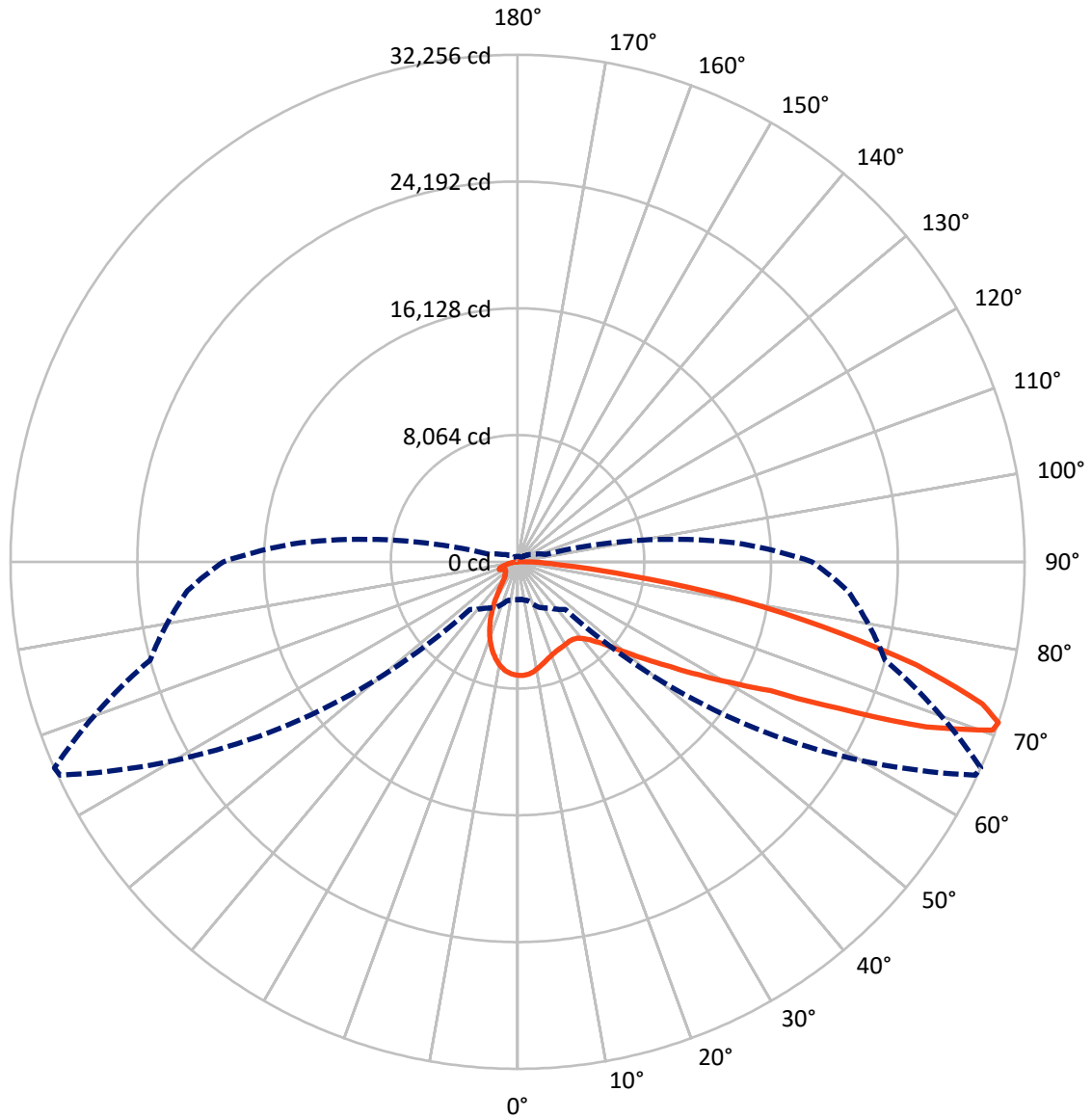
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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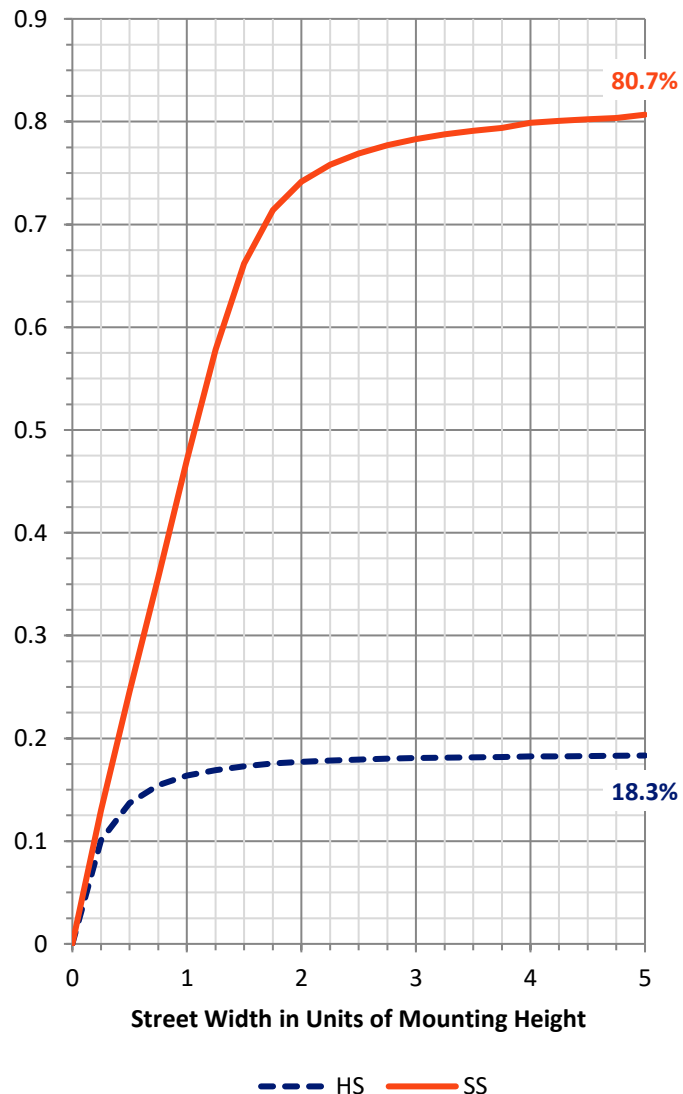
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5844.9   | 0.0    | 5844.9  |
|                    | % Fixture | 18.5     | 0.0    | 18.5    |
| <b>Street Side</b> | Lumens    | 25693.2  | 0.0    | 25693.2 |
|                    | % Fixture | 81.5     | 0.0    | 81.5    |
| <b>Total</b>       | Lumens    | 31538.0  | 0.0    | 31538.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 635.9   | 2.0       |
| 10°-20°   | 1525.3  | 4.8       |
| 20°-30°   | 2048.8  | 6.5       |
| 30°-40°   | 2695.2  | 8.5       |
| 40°-50°   | 3920.8  | 12.4      |
| 50°-60°   | 6124.8  | 19.4      |
| 60°-70°   | 7672.2  | 24.3      |
| 70°-80°   | 5852.2  | 18.6      |
| 80°-90°   | 1062.7  | 3.4       |
| 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°    | 31538.0 | 100.0     |
| 0°-180°   | 31538.0 | 100.0     |

**Coefficient of Utilization**

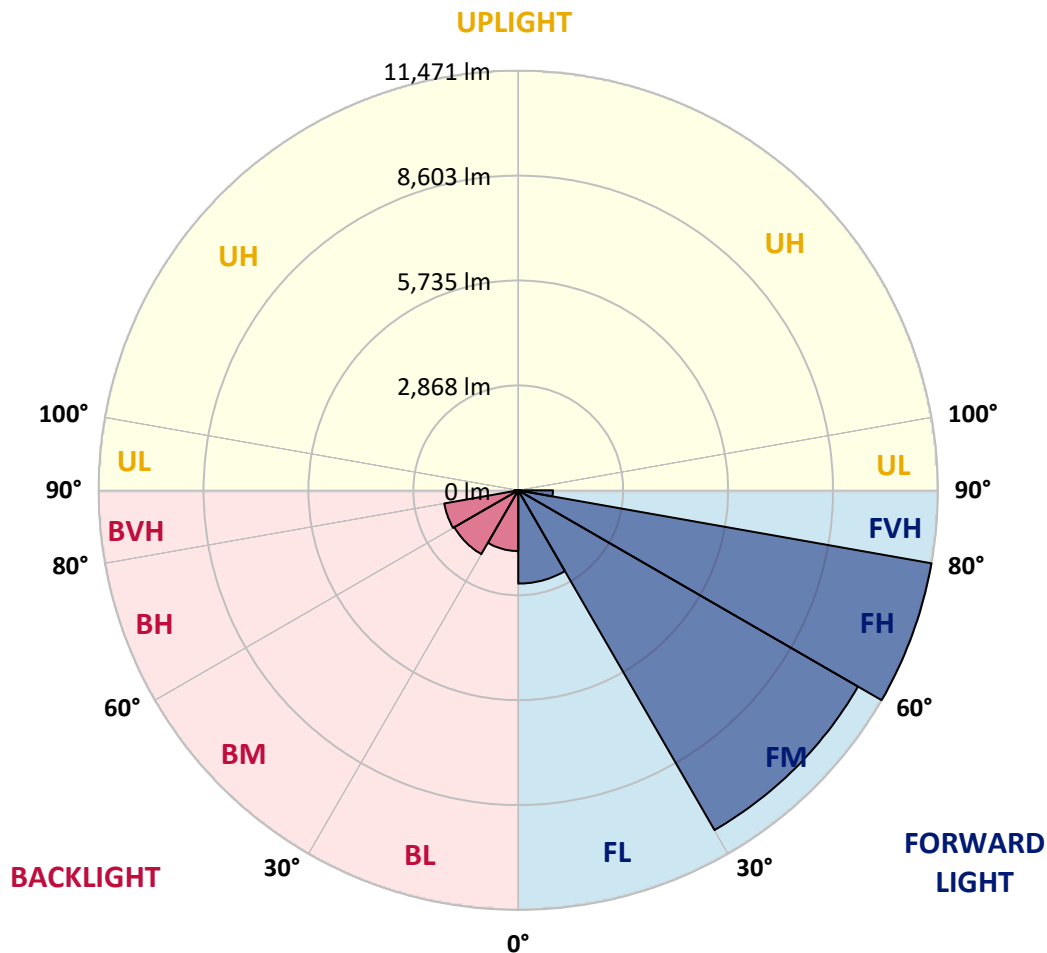


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2550.3  | 8.1       |                         |      |          |
| FM (30°-60°)   | 10724.5 | 34.0      |                         |      |          |
| FH (60°-80°)   | 11470.7 | 36.4      |                         |      | G4/12000 |
| FVH (80°-90°)  | 947.7   | 3.0       |                         |      | G5       |
| BL (0°-30°)    | 1659.8  | 5.3       | B3/2500                 |      |          |
| BM (30°-60°)   | 2016.3  | 6.4       | B2/2500                 |      |          |
| BH (60°-80°)   | 2053.7  | 6.5       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 115.0   | 0.4       |                         |      | 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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7224.7  | 7224.7  | 7224.7  | 7224.7  | 7224.7  | 7224.7  | 7224.7  | 7224.7  | 7224.7  | 7224.7  | 7224.7  |
| 2.5°  | 7090.8  | 7079.9  | 7112.6  | 7146.3  | 7159.4  | 7181.2  | 7213.9  | 7232.4  | 7231.3  | 7234.5  | 7223.7  |
| 5°    | 6620.4  | 6606.3  | 6671.6  | 6724.9  | 6827.3  | 6942.7  | 7083.2  | 7183.4  | 7185.5  | 7242.2  | 7257.4  |
| 7.5°  | 6175.1  | 6165.3  | 6240.4  | 6326.4  | 6445.1  | 6621.5  | 6849.1  | 7064.7  | 7077.7  | 7231.3  | 7284.6  |
| 10°   | 5817.9  | 5815.7  | 5888.7  | 5982.3  | 6120.6  | 6317.7  | 6579.0  | 6894.8  | 6914.4  | 7179.0  | 7289.0  |
| 12.5° | 5539.2  | 5543.5  | 5606.7  | 5713.4  | 5859.3  | 6065.1  | 6348.2  | 6704.3  | 6735.8  | 7096.3  | 7263.9  |
| 15°   | 5333.4  | 5350.8  | 5402.0  | 5509.8  | 5653.5  | 5862.6  | 6153.3  | 6527.9  | 6575.8  | 7003.7  | 7249.8  |
| 17.5° | 5215.8  | 5235.4  | 5271.3  | 5360.6  | 5495.6  | 5697.0  | 5972.5  | 6383.0  | 6426.6  | 6932.9  | 7250.9  |
| 20°   | 5180.9  | 5197.2  | 5217.9  | 5272.4  | 5386.7  | 5569.6  | 5829.9  | 6252.4  | 6299.2  | 6876.3  | 7261.8  |
| 22.5° | 5249.5  | 5261.5  | 5263.7  | 5259.3  | 5329.0  | 5478.2  | 5726.4  | 6156.6  | 6206.6  | 6839.3  | 7269.4  |
| 25°   | 5396.5  | 5412.8  | 5400.9  | 5360.6  | 5337.7  | 5429.2  | 5673.1  | 6093.4  | 6143.5  | 6812.1  | 7254.1  |
| 27.5° | 5617.6  | 5619.7  | 5609.9  | 5557.7  | 5449.9  | 5434.6  | 5656.8  | 6056.4  | 6104.3  | 6780.5  | 7222.6  |
| 30°   | 5918.1  | 5932.2  | 5914.8  | 5844.0  | 5667.6  | 5521.7  | 5676.4  | 6020.4  | 6064.0  | 6740.2  | 7171.4  |
| 32.5° | 6269.8  | 6304.6  | 6303.5  | 6229.5  | 5976.9  | 5716.6  | 5756.9  | 5998.7  | 6032.4  | 6697.7  | 7109.3  |
| 35°   | 6634.6  | 6682.5  | 6771.8  | 6740.2  | 6427.7  | 6024.8  | 5911.6  | 6033.5  | 6056.4  | 6692.3  | 7065.8  |
| 37.5° | 7013.5  | 7061.4  | 7245.4  | 7330.4  | 6964.5  | 6465.8  | 6155.5  | 6156.6  | 6167.4  | 6758.7  | 7062.5  |
| 40°   | 7409.9  | 7461.0  | 7737.6  | 7958.7  | 7660.3  | 7024.4  | 6548.5  | 6413.5  | 6401.5  | 6922.0  | 7126.7  |
| 42.5° | 7965.2  | 8010.9  | 8343.0  | 8625.1  | 8432.3  | 7739.8  | 7091.9  | 6809.9  | 6784.8  | 7242.2  | 7332.5  |
| 45°   | 8667.5  | 8706.7  | 9059.5  | 9361.1  | 9262.0  | 8556.5  | 7774.6  | 7355.4  | 7351.1  | 7775.7  | 7749.6  |
| 47.5° | 9502.7  | 9533.2  | 9850.0  | 10141.9 | 10177.8 | 9496.2  | 8632.7  | 8197.1  | 8126.3  | 8507.5  | 8395.3  |
| 50°   | 10372.7 | 10406.5 | 10622.1 | 10935.7 | 11202.4 | 10753.8 | 9736.8  | 9228.3  | 9133.6  | 9473.3  | 9310.0  |
| 52.5° | 10948.7 | 10993.4 | 11180.7 | 11578.1 | 12354.5 | 12132.3 | 11042.4 | 10478.3 | 10334.6 | 10643.8 | 10518.6 |
| 55°   | 10691.8 | 10791.9 | 11078.3 | 11715.3 | 13275.7 | 14238.2 | 12652.8 | 11936.3 | 11774.1 | 12031.1 | 11957.0 |
| 57.5° | 9523.4  | 9660.6  | 10051.5 | 11034.8 | 13405.3 | 16093.7 | 15087.6 | 13653.5 | 13539.2 | 13465.1 | 13498.9 |
| 60°   | 7388.1  | 7519.8  | 8004.4  | 9286.0  | 12502.6 | 17448.3 | 18751.7 | 15770.3 | 15604.8 | 14904.6 | 14935.1 |
| 62.5° | 5228.8  | 5162.4  | 5494.5  | 6432.0  | 10159.3 | 17607.3 | 22921.0 | 18601.4 | 18057.0 | 16424.7 | 16290.8 |
| 65°   | 3987.5  | 3972.2  | 4121.4  | 4419.8  | 6153.3  | 15705.0 | 25404.8 | 23359.8 | 22509.4 | 18212.7 | 17896.9 |
| 67.5° | 3276.5  | 3249.2  | 3396.2  | 3830.7  | 3962.4  | 10132.1 | 25459.2 | 28880.5 | 28045.3 | 20438.4 | 19754.5 |
| 70°   | 2693.9  | 2663.4  | 2800.6  | 3361.4  | 3661.9  | 5138.4  | 21427.1 | 32113.4 | 32068.7 | 23256.4 | 21157.0 |
| 71°   | 2415.1  | 2393.4  | 2557.8  | 3180.6  | 3597.7  | 4282.6  | 18500.1 | 32122.1 | 32256.0 | 24210.2 | 21074.3 |
| 72.5° | 1966.5  | 1974.1  | 2148.4  | 2831.1  | 3549.8  | 3781.7  | 13596.9 | 30624.9 | 30908.0 | 25119.5 | 20321.8 |
| 75°   | 1306.7  | 1313.2  | 1541.9  | 2177.8  | 3442.0  | 3700.0  | 7473.0  | 25697.7 | 26218.1 | 24575.0 | 18543.7 |
| 77.5° | 877.6   | 875.5   | 1031.2  | 1493.9  | 2998.8  | 3700.0  | 4381.7  | 19219.9 | 19791.6 | 19554.2 | 14296.0 |
| 80°   | 604.3   | 600.0   | 710.0   | 1031.2  | 2270.3  | 3744.7  | 3387.5  | 13469.5 | 13642.6 | 10560.0 | 5810.3  |
| 82.5° | 370.2   | 373.5   | 463.9   | 728.5   | 1545.1  | 3370.1  | 3198.1  | 7344.5  | 7156.1  | 2961.8  | 1451.5  |
| 85°   | 212.3   | 211.2   | 296.2   | 493.3   | 992.0   | 2844.2  | 3118.6  | 3161.0  | 2899.7  | 891.8   | 524.8   |
| 87.5° | 76.2    | 81.7    | 159.0   | 273.3   | 568.4   | 1980.7  | 2646.0  | 1644.2  | 1482.0  | 402.9   | 237.4   |
| 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°    | 7224.7  | 7224.7  | 7224.7 | 7224.7 | 7224.7 | 7224.7 | 7224.7 | 7224.7 | 7224.7 | 7224.7 | 7224.7 |
| 2.5°  | 7216.0  | 7222.6  | 7214.9 | 7171.4 | 7134.4 | 7074.5 | 7040.7 | 6993.9 | 6979.7 | 6973.2 | 6990.6 |
| 5°    | 7243.3  | 7245.4  | 7181.2 | 7066.9 | 6938.4 | 6787.0 | 6678.1 | 6544.2 | 6481.0 | 6453.8 | 6471.2 |
| 7.5°  | 7268.3  | 7258.5  | 7118.0 | 6899.2 | 6661.8 | 6398.3 | 6164.2 | 5949.7 | 5824.4 | 5773.3 | 5777.6 |
| 10°   | 7271.6  | 7230.2  | 7004.8 | 6666.1 | 6298.1 | 5911.6 | 5552.2 | 5221.2 | 5012.1 | 4876.0 | 4917.4 |
| 12.5° | 7237.8  | 7168.1  | 6838.2 | 6364.5 | 5853.8 | 5326.8 | 4841.2 | 4344.6 | 4046.3 | 3908.0 | 3912.4 |
| 15°   | 7211.7  | 7085.4  | 6633.5 | 6009.6 | 5323.6 | 4625.6 | 3962.4 | 3378.8 | 3060.9 | 2919.3 | 2852.9 |
| 17.5° | 7189.9  | 6996.1  | 6396.1 | 5609.9 | 4697.4 | 3812.2 | 3015.1 | 2494.6 | 2320.4 | 2279.0 | 2261.6 |
| 20°   | 7159.4  | 6901.3  | 6131.5 | 5147.2 | 3984.2 | 2901.9 | 2201.7 | 1944.7 | 1945.8 | 1993.7 | 2000.3 |
| 22.5° | 7116.9  | 6793.5  | 5849.5 | 4627.8 | 3218.7 | 2113.5 | 1725.9 | 1651.8 | 1727.0 | 1818.4 | 1834.8 |
| 25°   | 7053.8  | 6666.1  | 5535.9 | 4053.9 | 2454.3 | 1624.6 | 1474.3 | 1471.1 | 1562.5 | 1658.4 | 1672.5 |
| 27.5° | 6964.5  | 6499.5  | 5187.4 | 3437.6 | 1808.6 | 1380.7 | 1320.8 | 1343.7 | 1411.2 | 1480.9 | 1486.3 |
| 30°   | 6844.7  | 6305.7  | 4803.1 | 2787.5 | 1417.7 | 1229.4 | 1222.8 | 1243.5 | 1284.9 | 1333.9 | 1338.2 |
| 32.5° | 6713.0  | 6108.6  | 4392.6 | 2158.2 | 1214.1 | 1147.7 | 1154.2 | 1164.0 | 1183.6 | 1203.2 | 1207.6 |
| 35°   | 6593.2  | 5907.2  | 3972.2 | 1639.9 | 1117.2 | 1094.3 | 1090.0 | 1087.8 | 1090.0 | 1083.4 | 1084.5 |
| 37.5° | 6515.9  | 5740.6  | 3534.5 | 1305.6 | 1061.7 | 1047.5 | 1034.4 | 1018.1 | 999.6  | 988.7  | 990.9  |
| 40°   | 6487.6  | 5616.5  | 3091.3 | 1128.1 | 1015.9 | 1006.1 | 981.1  | 946.2  | 924.5  | 917.9  | 917.9  |
| 42.5° | 6563.8  | 5552.2  | 2663.4 | 1038.8 | 977.8  | 961.5  | 920.1  | 879.8  | 863.5  | 862.4  | 861.3  |
| 45°   | 6796.8  | 5578.4  | 2256.2 | 989.8  | 943.0  | 911.4  | 857.0  | 823.2  | 812.3  | 814.5  | 813.4  |
| 47.5° | 7214.9  | 5742.8  | 1907.7 | 957.1  | 908.1  | 866.8  | 805.8  | 778.6  | 765.5  | 765.5  | 766.6  |
| 50°   | 7926.0  | 6127.2  | 1630.1 | 929.9  | 878.7  | 825.4  | 768.8  | 735.0  | 717.6  | 716.5  | 716.5  |
| 52.5° | 8961.5  | 6815.3  | 1456.9 | 907.0  | 846.1  | 788.4  | 731.7  | 689.3  | 668.6  | 664.2  | 662.0  |
| 55°   | 10259.5 | 7801.9  | 1409.0 | 891.8  | 802.5  | 748.1  | 687.1  | 644.6  | 621.8  | 612.0  | 610.9  |
| 57.5° | 11710.9 | 9001.8  | 1503.7 | 873.3  | 757.9  | 700.2  | 638.1  | 597.8  | 573.8  | 561.9  | 560.8  |
| 60°   | 13179.9 | 10311.7 | 1890.3 | 847.2  | 720.8  | 647.9  | 588.0  | 551.0  | 527.0  | 514.0  | 511.8  |
| 62.5° | 14650.9 | 11692.4 | 2679.7 | 845.0  | 694.7  | 597.8  | 536.8  | 505.2  | 482.4  | 468.2  | 465.0  |
| 65°   | 16310.4 | 13203.8 | 3577.0 | 902.7  | 686.0  | 552.1  | 484.6  | 459.5  | 439.9  | 426.8  | 425.8  |
| 67.5° | 18215.9 | 14910.1 | 3491.0 | 1021.4 | 715.4  | 510.7  | 435.6  | 416.0  | 401.8  | 390.9  | 389.8  |
| 70°   | 19109.9 | 14643.3 | 2170.1 | 1105.2 | 756.8  | 470.4  | 388.7  | 374.6  | 363.7  | 356.1  | 352.8  |
| 71°   | 18735.3 | 13904.0 | 1819.5 | 1095.4 | 752.4  | 453.0  | 370.2  | 359.3  | 348.4  | 341.9  | 338.6  |
| 72.5° | 17714.0 | 12680.1 | 1517.9 | 1019.2 | 703.4  | 421.4  | 346.3  | 335.4  | 325.6  | 318.0  | 315.8  |
| 75°   | 15895.5 | 11324.4 | 1215.2 | 814.5  | 560.8  | 356.1  | 303.8  | 291.8  | 284.2  | 279.8  | 275.5  |
| 77.5° | 11684.8 | 8081.7  | 939.7  | 643.5  | 412.7  | 290.7  | 259.2  | 250.4  | 242.8  | 236.3  | 233.0  |
| 80°   | 4476.4  | 3130.5  | 632.6  | 480.2  | 302.7  | 229.8  | 209.1  | 204.7  | 197.1  | 192.7  | 192.7  |
| 82.5° | 1205.4  | 935.4   | 337.6  | 290.7  | 202.5  | 167.7  | 160.1  | 157.9  | 151.4  | 142.6  | 143.7  |
| 85°   | 487.8   | 412.7   | 189.5  | 160.1  | 124.1  | 99.1   | 107.8  | 108.9  | 101.3  | 90.4   | 91.5   |
| 87.5° | 214.5   | 175.3   | 105.6  | 70.8   | 54.4   | 38.1   | 49.0   | 49.0   | 44.6   | 37.0   | 33.8   |
| 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)