

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: P319729

Luminaire Tested: **GAN-SA5C-750-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319729  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5C-750-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35354 lumens  
Efficiency: N/A  
Efficacy: 126.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

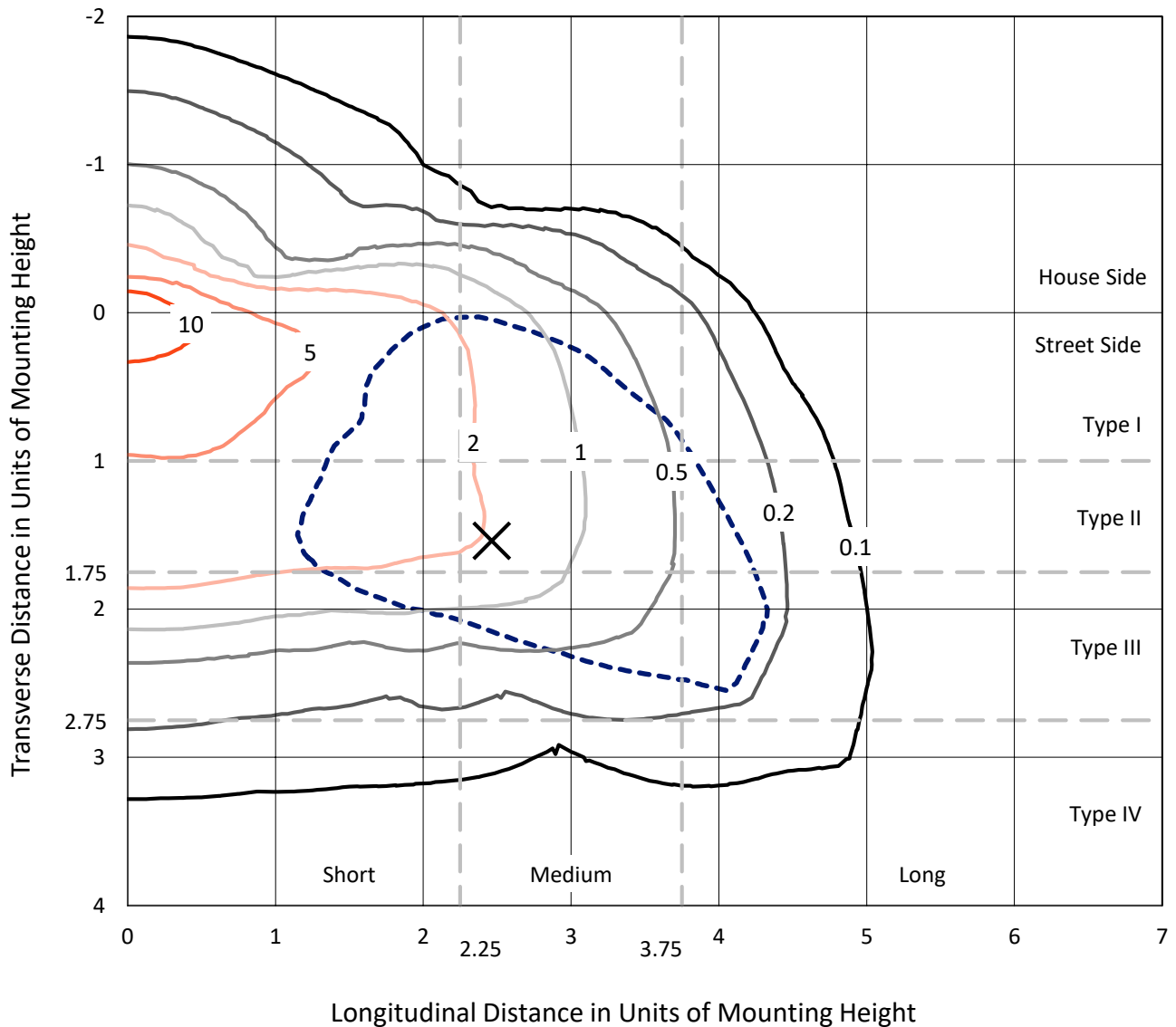
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

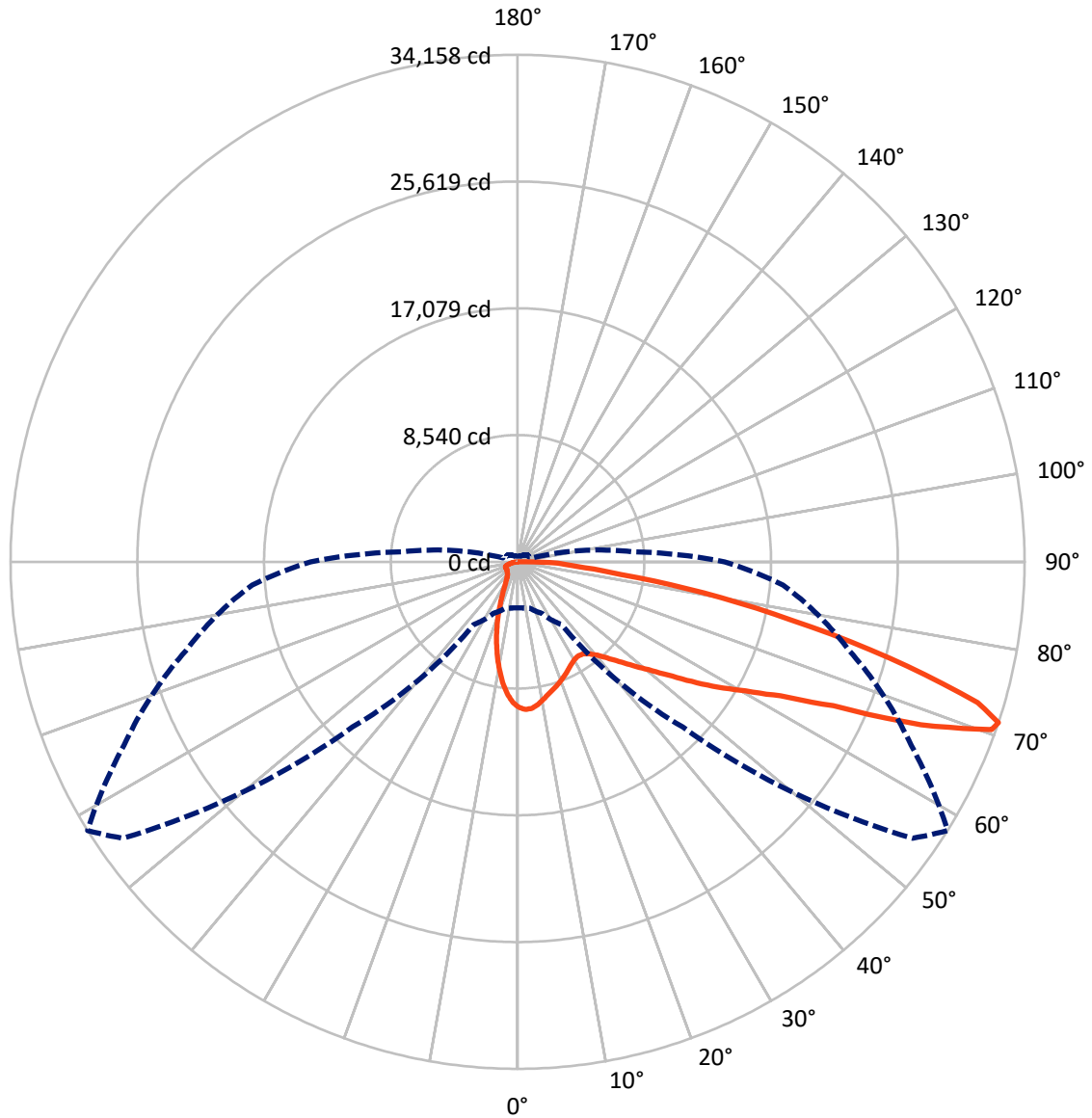
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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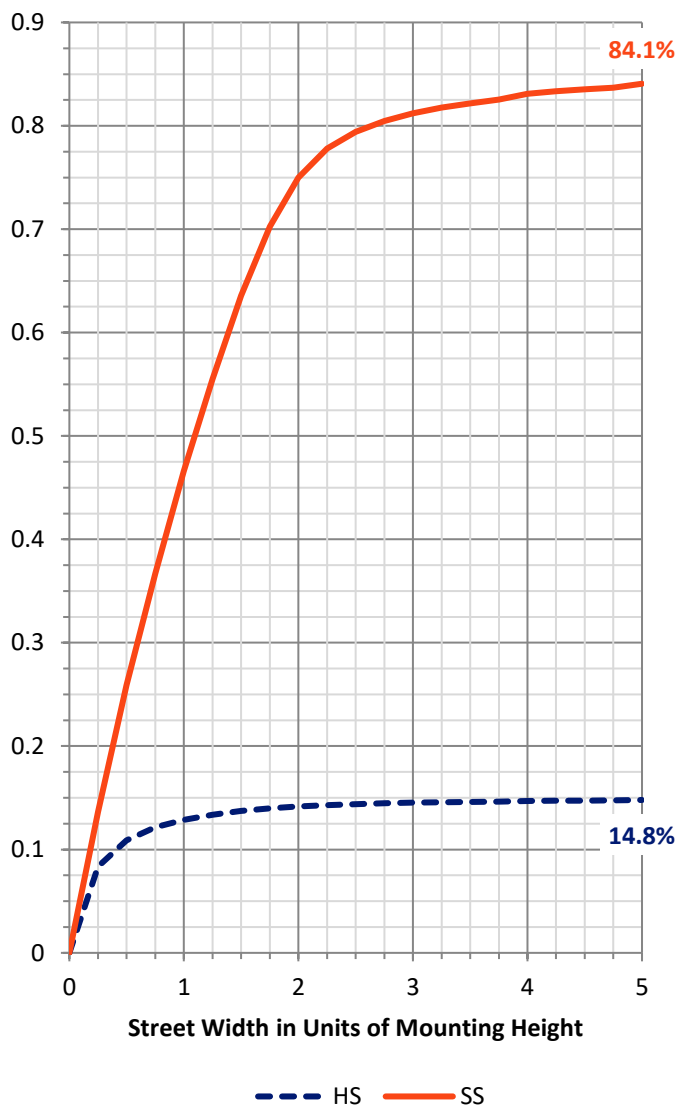
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5285.7   | 0.0    | 5285.7  |
|                    | % Fixture | 15.0     | 0.0    | 15.0    |
| <b>Street Side</b> | Lumens    | 30068.3  | 0.0    | 30068.3 |
|                    | % Fixture | 85.0     | 0.0    | 85.0    |
| <b>Total</b>       | Lumens    | 35354.0  | 0.0    | 35354.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 845.1   | 2.4       |
| 10°-20°   | 1879.1  | 5.3       |
| 20°-30°   | 2388.1  | 6.8       |
| 30°-40°   | 3042.0  | 8.6       |
| 40°-50°   | 4313.7  | 12.2      |
| 50°-60°   | 6675.6  | 18.9      |
| 60°-70°   | 9087.9  | 25.7      |
| 70°-80°   | 6062.7  | 17.1      |
| 80°-90°   | 1060.0  | 3.0       |
| 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°    | 35354.0 | 100.0     |
| 0°-180°   | 35354.0 | 100.0     |

**Coefficient of Utilization**



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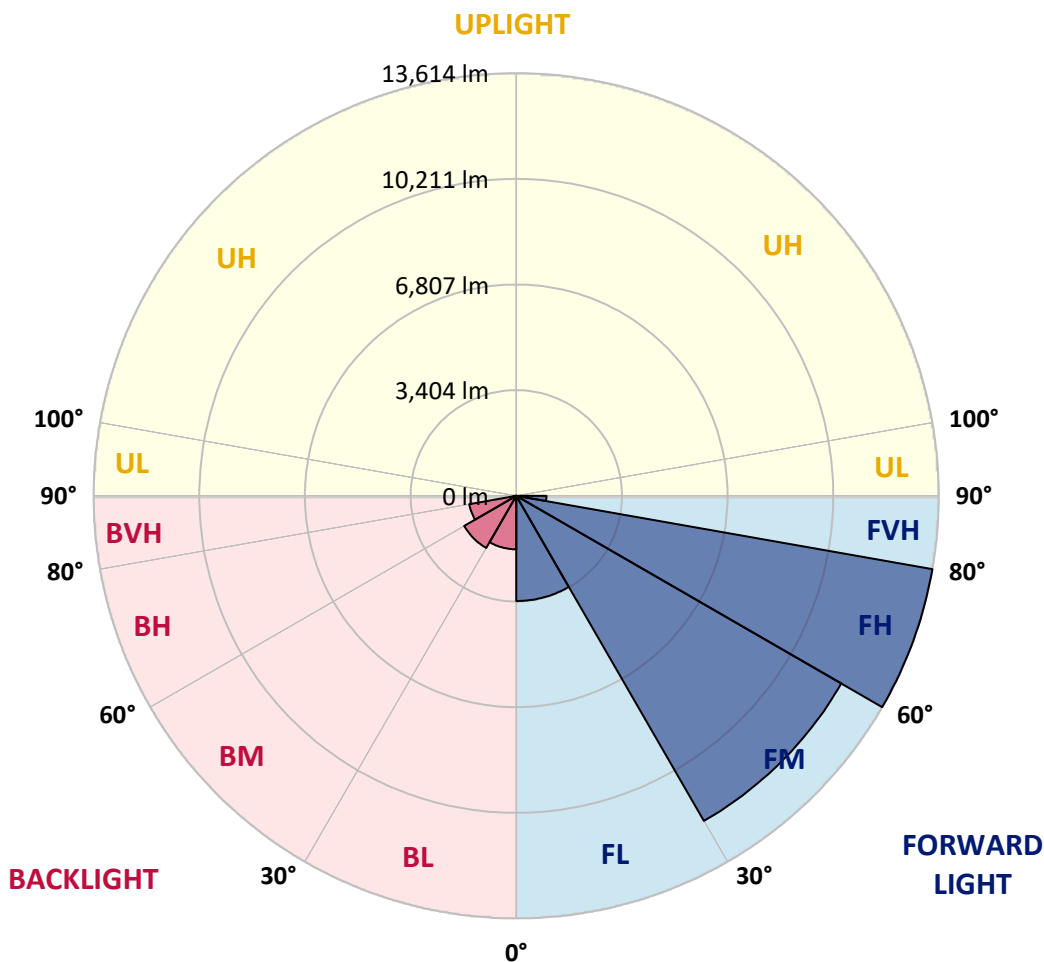
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3389.3  | 9.6       |                         |      |         |
| FM (30°-60°)   | 12092.8 | 34.2      |                         |      |         |
| FH (60°-80°)   | 13614.4 | 38.5      |                         |      | G5      |
| FVH (80°-90°)  | 971.9   | 2.7       |                         |      | G5      |
| BL (0°-30°)    | 1723.0  | 4.9       | B3/2500                 |      |         |
| BM (30°-60°)   | 1938.4  | 5.5       | B2/2500                 |      |         |
| BH (60°-80°)   | 1536.2  | 4.3       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 88.1    | 0.2       |                         |      | G1/100  |
| 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°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9795.4  | 9795.4  | 9795.4  | 9795.4  | 9795.4  | 9795.4  | 9795.4  | 9795.4  | 9795.4  | 9795.4  | 9795.4  |
| 2.5°  | 10055.3 | 10041.7 | 10046.6 | 10036.8 | 10013.4 | 9990.0  | 9955.5  | 9961.7  | 9913.6  | 9842.2  | 9753.6  |
| 5°    | 9865.6  | 9860.7  | 9897.6  | 9918.6  | 9935.8  | 9922.3  | 9912.4  | 9924.7  | 9854.5  | 9756.0  | 9602.1  |
| 7.5°  | 9467.8  | 9413.7  | 9460.5  | 9530.6  | 9597.1  | 9647.6  | 9714.1  | 9722.8  | 9678.4  | 9575.0  | 9373.0  |
| 10°   | 8902.6  | 8850.9  | 8919.8  | 9029.4  | 9162.4  | 9283.1  | 9417.3  | 9442.0  | 9450.6  | 9357.0  | 9111.9  |
| 12.5° | 8316.4  | 8277.0  | 8345.9  | 8499.9  | 8720.3  | 8906.3  | 9120.6  | 9157.5  | 9233.9  | 9171.0  | 8870.6  |
| 15°   | 7791.8  | 7777.0  | 7860.7  | 8012.2  | 8265.9  | 8550.4  | 8859.5  | 8927.2  | 9056.5  | 9035.6  | 8682.1  |
| 17.5° | 7338.6  | 7334.9  | 7398.9  | 7557.8  | 7838.6  | 8198.2  | 8599.6  | 8714.2  | 8906.3  | 8930.9  | 8527.0  |
| 20°   | 7001.1  | 6993.7  | 7038.1  | 7155.1  | 7444.5  | 7852.1  | 8318.8  | 8476.5  | 8753.6  | 8839.8  | 8366.9  |
| 22.5° | 6820.1  | 6818.9  | 6820.1  | 6875.5  | 7112.0  | 7491.3  | 8045.4  | 8237.6  | 8604.6  | 8767.1  | 8189.5  |
| 25°   | 6789.3  | 6785.6  | 6758.5  | 6752.4  | 6886.6  | 7189.5  | 7774.5  | 7986.3  | 8462.9  | 8716.6  | 8020.8  |
| 27.5° | 6869.4  | 6874.3  | 6838.6  | 6780.7  | 6807.8  | 6991.3  | 7539.3  | 7765.9  | 8349.6  | 8706.8  | 7903.8  |
| 30°   | 7035.6  | 7033.1  | 7002.4  | 6942.0  | 6889.1  | 6917.4  | 7371.8  | 7598.4  | 8273.3  | 8749.9  | 7823.8  |
| 32.5° | 7219.1  | 7232.7  | 7226.5  | 7193.2  | 7114.4  | 7001.1  | 7321.3  | 7543.0  | 8251.1  | 8853.3  | 7789.3  |
| 35°   | 7439.5  | 7454.3  | 7498.7  | 7524.5  | 7432.2  | 7249.9  | 7429.7  | 7621.8  | 8315.1  | 9047.9  | 7844.7  |
| 37.5° | 7648.9  | 7687.1  | 7811.5  | 7921.1  | 7842.2  | 7639.0  | 7717.9  | 7854.6  | 8513.4  | 9354.5  | 7993.7  |
| 40°   | 7890.3  | 7923.5  | 8126.7  | 8359.5  | 8347.2  | 8136.6  | 8182.1  | 8273.3  | 8863.2  | 9794.2  | 8263.4  |
| 42.5° | 8128.0  | 8194.5  | 8488.8  | 8818.8  | 8913.7  | 8727.7  | 8800.4  | 8848.4  | 9355.8  | 10376.7 | 8733.9  |
| 45°   | 8444.5  | 8515.9  | 8924.7  | 9322.5  | 9544.2  | 9439.5  | 9555.3  | 9573.7  | 9975.2  | 11169.8 | 9417.3  |
| 47.5° | 8923.5  | 9004.8  | 9481.4  | 9898.9  | 10237.5 | 10248.6 | 10439.5 | 10432.1 | 10748.6 | 12077.4 | 10278.2 |
| 50°   | 9669.8  | 9786.8  | 10177.2 | 10567.6 | 10978.9 | 11208.0 | 11462.9 | 11427.2 | 11675.9 | 13044.1 | 11269.5 |
| 52.5° | 10647.6 | 10701.8 | 10991.2 | 11279.4 | 11790.5 | 12304.0 | 12669.8 | 12637.7 | 12727.6 | 14038.0 | 12395.1 |
| 55°   | 11661.2 | 11701.8 | 11821.3 | 11978.9 | 12666.1 | 13503.5 | 14276.9 | 14226.4 | 13998.6 | 15070.0 | 13507.2 |
| 57.5° | 12572.5 | 12655.0 | 12737.5 | 12802.8 | 13547.8 | 14757.2 | 15920.9 | 15924.6 | 15377.9 | 16183.3 | 14656.2 |
| 60°   | 12714.1 | 12786.8 | 13332.3 | 13847.1 | 15056.4 | 16429.6 | 17680.8 | 17643.8 | 16805.2 | 17391.4 | 15937.0 |
| 62.5° | 11238.7 | 11402.5 | 12313.9 | 13683.3 | 16509.6 | 19488.6 | 19925.8 | 19880.2 | 18512.0 | 18880.3 | 17428.3 |
| 65°   | 8054.1  | 8240.0  | 9339.8  | 11397.6 | 15805.2 | 22859.3 | 23977.5 | 23364.2 | 20839.6 | 20711.5 | 19174.6 |
| 67.5° | 4646.5  | 4690.8  | 5167.4  | 6820.1  | 12034.3 | 23035.4 | 30158.4 | 29300.1 | 24454.1 | 22789.1 | 20029.3 |
| 70°   | 3435.9  | 3434.7  | 3548.0  | 4197.0  | 6512.2  | 18800.2 | 33098.0 | 33867.7 | 28259.4 | 23472.6 | 18821.1 |
| 71°   | 3107.1  | 3110.8  | 3237.6  | 3820.1  | 5157.6  | 15736.2 | 32473.7 | 34158.4 | 29261.9 | 23135.1 | 17946.8 |
| 72.5° | 2657.6  | 2669.9  | 2846.0  | 3426.1  | 4338.6  | 10852.1 | 29784.0 | 32414.5 | 29737.2 | 22302.6 | 16578.6 |
| 75°   | 2016.0  | 2044.3  | 2288.1  | 2887.9  | 3965.5  | 5503.6  | 21859.3 | 25883.9 | 26417.1 | 19679.5 | 12318.8 |
| 77.5° | 1438.4  | 1470.4  | 1746.3  | 2428.5  | 3769.6  | 4147.7  | 14638.9 | 18880.3 | 19440.6 | 12611.9 | 5556.6  |
| 80°   | 908.9   | 947.0   | 1155.2  | 1932.2  | 3541.8  | 3938.4  | 9199.4  | 12690.7 | 10600.8 | 4035.7  | 1413.8  |
| 82.5° | 533.2   | 562.8   | 716.7   | 1262.3  | 2892.8  | 3793.0  | 5412.5  | 7034.4  | 4125.6  | 1219.2  | 642.8   |
| 85°   | 309.1   | 322.7   | 447.0   | 804.2   | 2101.0  | 3580.0  | 3976.5  | 3932.2  | 1790.6  | 596.1   | 304.2   |
| 87.5° | 144.1   | 160.1   | 264.8   | 419.9   | 1166.2  | 2594.8  | 3142.8  | 2715.5  | 1113.3  | 279.6   | 142.9   |
| 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°    | 9795.4  | 9795.4  | 9795.4 | 9795.4 | 9795.4 | 9795.4 | 9795.4 | 9795.4 | 9795.4 | 9795.4 | 9795.4 |
| 2.5°  | 9710.4  | 9689.5  | 9602.1 | 9524.5 | 9443.2 | 9337.3 | 9220.3 | 9205.5 | 9134.1 | 9147.6 | 9123.0 |
| 5°    | 9518.3  | 9465.4  | 9254.8 | 9063.9 | 8838.5 | 8636.6 | 8417.4 | 8316.4 | 8171.1 | 8161.2 | 8124.3 |
| 7.5°  | 9243.7  | 9145.2  | 8818.8 | 8456.8 | 8094.7 | 7749.9 | 7408.8 | 7184.6 | 6955.6 | 6858.3 | 6849.7 |
| 10°   | 8934.6  | 8767.1  | 8286.8 | 7751.1 | 7229.0 | 6725.3 | 6237.6 | 5876.8 | 5551.6 | 5397.7 | 5391.5 |
| 12.5° | 8641.5  | 8394.0  | 7735.1 | 7006.1 | 6291.8 | 5639.1 | 4970.4 | 4496.2 | 4088.6 | 3951.9 | 3894.0 |
| 15°   | 8392.7  | 8044.2  | 7198.2 | 6265.9 | 5398.9 | 4492.5 | 3731.5 | 3232.7 | 2855.9 | 2725.3 | 2700.7 |
| 17.5° | 8151.4  | 7703.1  | 6647.7 | 5518.4 | 4470.4 | 3474.1 | 2711.8 | 2341.1 | 2140.4 | 2087.4 | 2086.2 |
| 20°   | 7911.2  | 7352.1  | 6072.6 | 4753.6 | 3572.6 | 2598.5 | 2084.9 | 1918.7 | 1851.0 | 1844.8 | 1834.9 |
| 22.5° | 7639.0  | 6980.2  | 5467.9 | 3986.4 | 2788.1 | 2043.1 | 1772.1 | 1705.6 | 1697.0 | 1719.2 | 1719.2 |
| 25°   | 7384.1  | 6610.7  | 4854.6 | 3235.2 | 2168.7 | 1704.4 | 1582.5 | 1568.9 | 1592.3 | 1631.7 | 1635.4 |
| 27.5° | 7146.4  | 6254.8  | 4256.1 | 2567.7 | 1737.7 | 1501.2 | 1450.7 | 1466.7 | 1508.6 | 1554.2 | 1555.4 |
| 30°   | 6950.6  | 5918.6  | 3674.8 | 2023.4 | 1468.0 | 1349.7 | 1341.1 | 1373.1 | 1418.7 | 1454.4 | 1463.0 |
| 32.5° | 6799.2  | 5631.7  | 3113.3 | 1626.8 | 1291.9 | 1236.4 | 1243.8 | 1270.9 | 1299.2 | 1318.9 | 1332.5 |
| 35°   | 6729.0  | 5385.4  | 2594.8 | 1371.9 | 1179.8 | 1149.0 | 1158.8 | 1173.6 | 1185.9 | 1200.7 | 1211.8 |
| 37.5° | 6741.3  | 5194.5  | 2131.7 | 1213.0 | 1104.7 | 1088.7 | 1088.7 | 1088.7 | 1088.7 | 1096.0 | 1097.3 |
| 40°   | 6855.8  | 5084.9  | 1754.9 | 1112.1 | 1054.2 | 1036.9 | 1023.4 | 1011.1 | 1001.2 | 1006.1 | 1003.7 |
| 42.5° | 7148.9  | 5075.0  | 1479.0 | 1048.0 | 1013.5 | 985.2  | 958.1  | 940.9  | 928.6  | 933.5  | 935.9  |
| 45°   | 7646.4  | 5198.2  | 1293.1 | 1002.4 | 975.4  | 932.3  | 897.8  | 879.3  | 870.7  | 886.7  | 889.1  |
| 47.5° | 8290.5  | 5466.7  | 1179.8 | 969.2  | 939.6  | 883.0  | 846.0  | 828.8  | 831.3  | 854.7  | 860.8  |
| 50°   | 9120.6  | 5902.6  | 1125.6 | 948.3  | 915.0  | 841.1  | 802.9  | 788.2  | 795.6  | 828.8  | 836.2  |
| 52.5° | 10031.9 | 6530.7  | 1131.8 | 942.1  | 899.0  | 810.3  | 769.7  | 752.5  | 764.8  | 795.6  | 801.7  |
| 55°   | 11083.6 | 7285.6  | 1234.0 | 950.7  | 875.6  | 790.6  | 742.6  | 713.0  | 722.9  | 751.2  | 756.1  |
| 57.5° | 12252.3 | 8150.1  | 1439.6 | 948.3  | 846.0  | 772.2  | 714.3  | 669.9  | 677.3  | 694.6  | 699.5  |
| 60°   | 13469.0 | 9194.4  | 1758.6 | 955.7  | 832.5  | 750.0  | 676.1  | 620.7  | 618.2  | 633.0  | 635.5  |
| 62.5° | 14929.6 | 10402.6 | 2123.1 | 960.6  | 841.1  | 721.7  | 625.6  | 571.4  | 564.0  | 567.7  | 570.2  |
| 65°   | 16434.5 | 11276.9 | 1986.4 | 940.9  | 868.2  | 698.3  | 581.3  | 523.4  | 509.8  | 507.4  | 508.6  |
| 67.5° | 16481.3 | 10339.7 | 1392.8 | 901.5  | 879.3  | 686.0  | 548.0  | 482.8  | 460.6  | 452.0  | 450.7  |
| 70°   | 14780.6 | 8400.1  | 1085.0 | 859.6  | 835.0  | 666.2  | 517.2  | 449.5  | 416.2  | 402.7  | 401.5  |
| 71°   | 13950.5 | 7732.6  | 1028.3 | 838.7  | 801.7  | 646.5  | 503.7  | 434.7  | 400.2  | 385.5  | 383.0  |
| 72.5° | 12648.8 | 6932.2  | 959.3  | 805.4  | 737.7  | 596.1  | 477.8  | 413.8  | 378.1  | 360.8  | 357.1  |
| 75°   | 9077.5  | 4533.2  | 823.9  | 718.0  | 610.8  | 475.4  | 418.7  | 371.9  | 341.1  | 320.2  | 317.7  |
| 77.5° | 3497.5  | 1804.2  | 623.1  | 597.3  | 468.0  | 371.9  | 344.8  | 321.4  | 299.3  | 278.3  | 277.1  |
| 80°   | 1081.3  | 806.6   | 454.4  | 449.5  | 338.7  | 277.1  | 268.5  | 262.3  | 253.7  | 231.5  | 226.6  |
| 82.5° | 577.6   | 463.0   | 312.8  | 290.6  | 221.7  | 184.7  | 194.6  | 197.0  | 198.3  | 174.9  | 172.4  |
| 85°   | 275.9   | 245.1   | 176.1  | 165.0  | 129.3  | 103.4  | 119.5  | 129.3  | 130.5  | 107.1  | 99.8   |
| 87.5° | 131.8   | 128.1   | 82.5   | 62.8   | 48.0   | 34.5   | 41.9   | 51.7   | 56.6   | 40.6   | 35.7   |
| 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)