

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: P300450

Luminaire Tested: **GAA-AF-06-LED-U-AFL-7060-600**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P300450  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-06-LED-U-AFL-7060-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 23978.8 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 193  
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

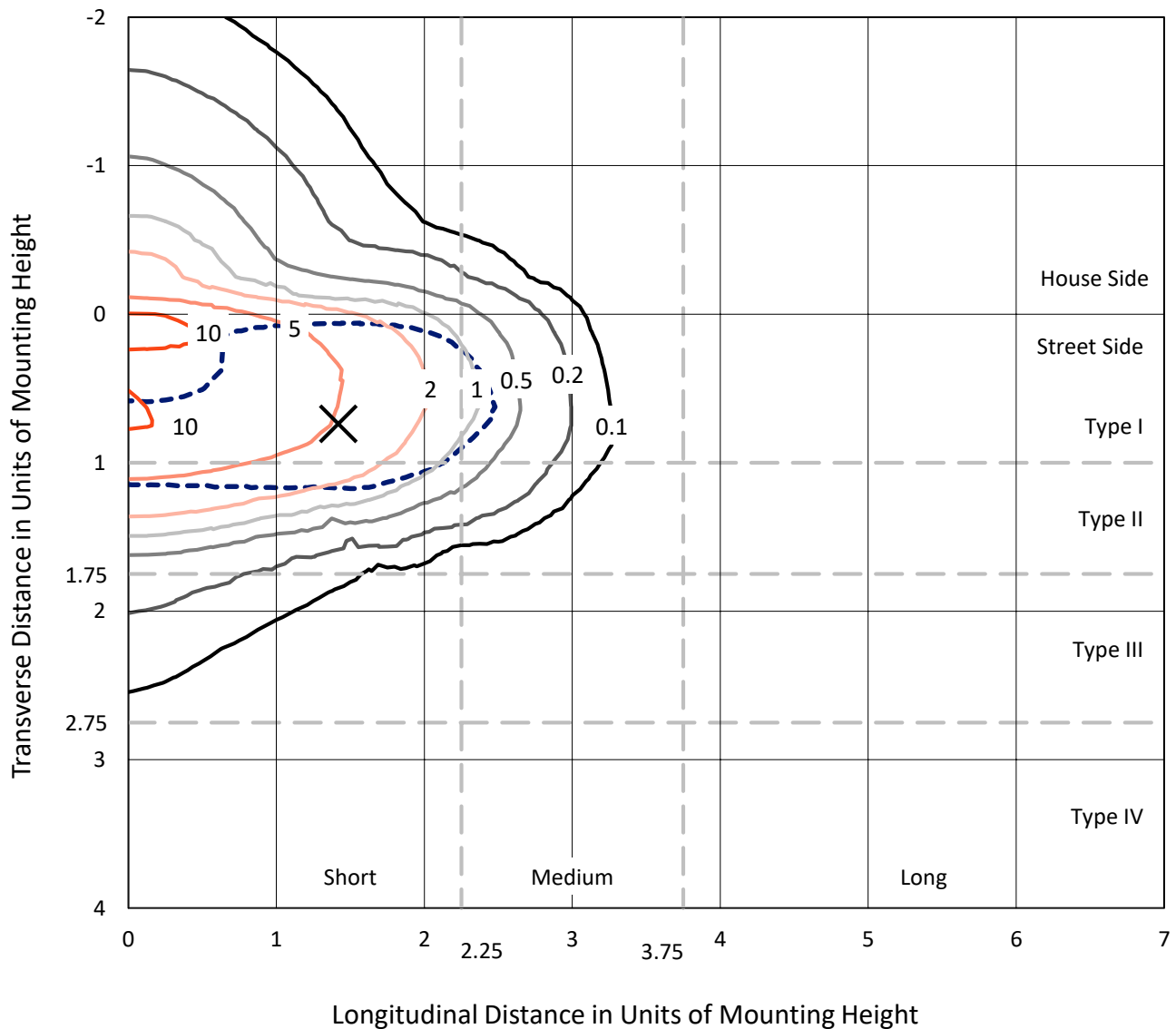


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

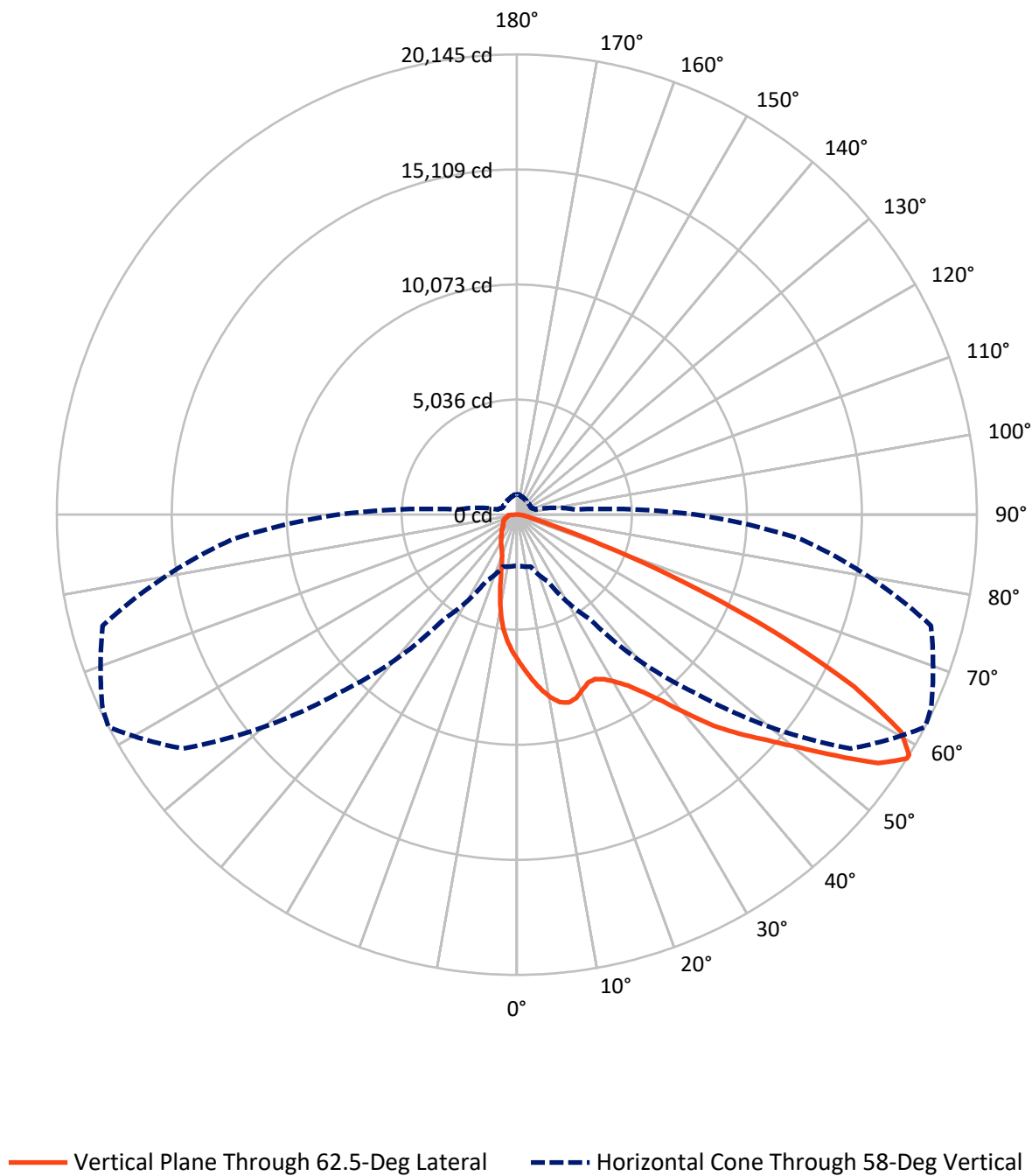


Based on 25 foot mounting height. Maximum calculated value = 12.4 fc  
 Type II - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3656.9   | 0.0    | 3656.9  |
|                    | % Fixture | 15.3     | 0.0    | 15.3    |
| <b>Street Side</b> | Lumens    | 20321.9  | 0.0    | 20321.9 |
|                    | % Fixture | 84.7     | 0.0    | 84.7    |
| <b>Total</b>       | Lumens    | 23978.8  | 0.0    | 23978.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 569.7   | 2.4       |
| 10°-20°   | 1456.1  | 6.1       |
| 20°-30°   | 2353.9  | 9.8       |
| 30°-40°   | 3736.8  | 15.6      |
| 40°-50°   | 5467.7  | 22.8      |
| 50°-60°   | 5718.7  | 23.8      |
| 60°-70°   | 3378.6  | 14.1      |
| 70°-80°   | 951.8   | 4.0       |
| 80°-90°   | 345.5   | 1.4       |
| 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°    | 23978.8 | 100.0     |
| 0°-180°   | 23978.8 | 100.0     |

**Coefficient of Utilization**



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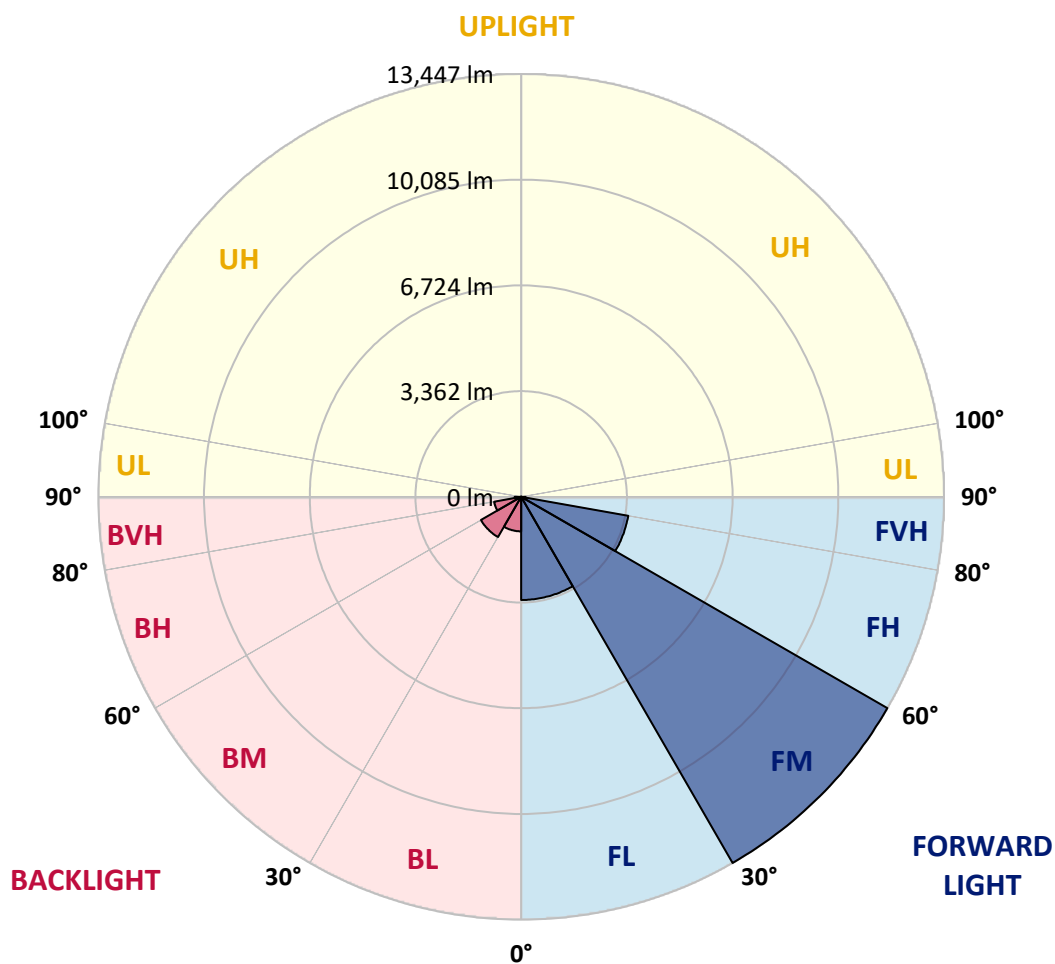
CATALOG NUMBER: GAA-AF-06-LED-U-AFL-7060-600

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3280.6  | 13.7      |                         |      |         |
| FM   | (30°-60°)   | 13447.2 | 56.1      |                         |      |         |
| FH   | (60°-80°)   | 3457.8  | 14.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 136.3   | 0.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1099.1  | 4.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1476.0  | 6.2       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 872.6   | 3.6       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 209.2   | 0.9       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 62.5°   | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6369.5  | 6369.5  | 6369.5  | 6369.5  | 6369.5  | 6369.5  | 6369.5  | 6369.5  | 6369.5  | 6369.5  | 6369.5  |
| 2.5°  | 7278.4  | 7219.7  | 7182.5  | 7149.7  | 7106.8  | 7015.4  | 6892.3  | 6814.4  | 6774.8  | 6640.5  | 6481.3  |
| 5°    | 7992.1  | 7940.1  | 7901.7  | 7857.7  | 7780.9  | 7637.5  | 7438.8  | 7280.7  | 7202.8  | 6934.1  | 6615.6  |
| 7.5°  | 7824.9  | 7846.4  | 7913.0  | 8029.3  | 8128.7  | 8109.5  | 7932.2  | 7731.2  | 7628.5  | 7254.7  | 6771.5  |
| 10°   | 6817.8  | 6855.0  | 6970.2  | 7242.3  | 7682.7  | 8134.3  | 8272.1  | 8133.2  | 8029.3  | 7572.0  | 6931.8  |
| 12.5° | 6615.6  | 6614.5  | 6623.5  | 6695.8  | 6957.8  | 7593.5  | 8283.4  | 8423.4  | 8361.3  | 7874.6  | 7095.5  |
| 15°   | 6698.1  | 6700.3  | 6693.5  | 6724.0  | 6805.3  | 7057.1  | 7937.9  | 8535.2  | 8579.2  | 8179.5  | 7264.9  |
| 17.5° | 6914.9  | 6909.2  | 6883.2  | 6883.2  | 6912.6  | 7010.8  | 7531.4  | 8431.3  | 8634.5  | 8449.4  | 7413.9  |
| 20°   | 7278.4  | 7252.5  | 7183.6  | 7120.4  | 7088.7  | 7141.8  | 7364.3  | 8191.9  | 8538.6  | 8685.4  | 7537.0  |
| 22.5° | 7718.8  | 7698.5  | 7586.7  | 7451.2  | 7341.7  | 7340.5  | 7450.1  | 7983.0  | 8372.6  | 8907.8  | 7640.9  |
| 25°   | 8287.9  | 8255.1  | 8089.2  | 7872.4  | 7680.4  | 7607.0  | 7637.5  | 7972.9  | 8282.2  | 9149.4  | 7733.5  |
| 27.5° | 8956.3  | 8896.5  | 8700.0  | 8387.3  | 8105.0  | 7957.1  | 7913.0  | 8156.9  | 8364.7  | 9448.6  | 7862.2  |
| 30°   | 9767.1  | 9698.2  | 9446.4  | 9038.8  | 8640.2  | 8397.4  | 8303.7  | 8483.2  | 8637.9  | 9813.4  | 8068.8  |
| 32.5° | 10689.6 | 10590.2 | 10298.9 | 9849.5  | 9325.6  | 8955.2  | 8802.8  | 8914.6  | 9037.6  | 10252.6 | 8327.4  |
| 35°   | 11964.4 | 11845.8 | 11424.6 | 10804.7 | 10213.1 | 9703.8  | 9459.9  | 9541.2  | 9660.9  | 10907.5 | 8701.2  |
| 37.5° | 12833.8 | 12780.7 | 12500.7 | 11918.1 | 11274.5 | 10688.4 | 10311.3 | 10358.7 | 10426.5 | 11726.1 | 9179.9  |
| 40°   | 12825.9 | 12847.4 | 12853.0 | 12858.7 | 12420.5 | 11859.4 | 11454.0 | 11404.3 | 11390.8 | 12624.9 | 9724.2  |
| 42.5° | 12183.4 | 12271.5 | 12556.0 | 13133.0 | 13399.5 | 13142.1 | 12770.6 | 12627.2 | 12556.0 | 13684.1 | 10301.2 |
| 45°   | 11199.9 | 11247.4 | 11780.3 | 12907.2 | 13900.9 | 14412.4 | 14131.2 | 13679.5 | 13550.8 | 14657.4 | 10779.9 |
| 47.5° | 10693.0 | 10744.9 | 11080.3 | 12308.8 | 13895.2 | 15438.7 | 15601.3 | 14740.9 | 14510.6 | 15504.2 | 11193.2 |
| 50°   | 9485.9  | 9594.3  | 10016.6 | 11267.7 | 13388.2 | 15910.7 | 17138.1 | 16005.6 | 15529.1 | 16328.5 | 11607.6 |
| 52.5° | 7269.4  | 7436.5  | 7909.6  | 9555.9  | 12102.1 | 15677.0 | 18367.7 | 17538.9 | 16866.0 | 17182.1 | 11963.2 |
| 55°   | 4585.4  | 4709.6  | 5107.1  | 6748.9  | 9681.3  | 14460.9 | 18834.1 | 19197.7 | 18599.2 | 17990.6 | 12271.5 |
| 57.5° | 2493.1  | 2548.5  | 2697.5  | 3726.2  | 6297.2  | 11772.4 | 18154.3 | 20141.6 | 19893.2 | 18677.1 | 12504.1 |
| 58°   | 2231.2  | 2268.4  | 2361.0  | 3229.3  | 5584.7  | 11037.4 | 17852.8 | 20145.0 | 20020.8 | 18777.6 | 12522.2 |
| 60°   | 1655.3  | 1636.1  | 1553.7  | 1842.8  | 3108.5  | 7625.1  | 16030.4 | 19338.8 | 19703.5 | 18900.7 | 12434.1 |
| 62.5° | 1454.3  | 1408.0  | 1239.8  | 1220.6  | 1511.9  | 3512.8  | 12265.9 | 16565.6 | 17427.2 | 18198.4 | 11898.9 |
| 65°   | 1366.3  | 1316.6  | 1099.8  | 1029.8  | 1090.7  | 1485.9  | 7225.4  | 12423.9 | 13504.5 | 16068.8 | 10530.4 |
| 67.5° | 1300.8  | 1236.4  | 1010.6  | 914.6   | 919.1   | 982.4   | 2896.2  | 7824.9  | 9041.0  | 12200.4 | 8190.8  |
| 70°   | 1237.5  | 1167.5  | 934.9   | 824.3   | 798.3   | 776.8   | 1151.7  | 3917.0  | 5020.2  | 7706.4  | 5222.3  |
| 72.5° | 1169.8  | 1100.9  | 868.3   | 753.1   | 702.3   | 631.2   | 752.0   | 1602.3  | 2238.0  | 3646.0  | 2368.9  |
| 75°   | 1071.6  | 1009.5  | 801.7   | 689.9   | 617.6   | 522.8   | 568.0   | 836.7   | 1003.8  | 1452.1  | 1141.6  |
| 77.5° | 950.7   | 899.9   | 727.2   | 638.0   | 547.6   | 424.6   | 437.0   | 580.4   | 643.6   | 831.0   | 678.6   |
| 80°   | 683.1   | 701.2   | 647.0   | 573.6   | 487.8   | 344.4   | 335.4   | 423.4   | 457.3   | 534.1   | 441.5   |
| 82.5° | 479.9   | 490.0   | 535.2   | 468.6   | 403.1   | 271.0   | 247.3   | 298.1   | 318.4   | 351.2   | 238.2   |
| 85°   | 330.8   | 319.5   | 367.0   | 326.3   | 291.3   | 180.7   | 169.4   | 202.1   | 214.5   | 217.9   | 123.1   |
| 87.5° | 198.7   | 198.7   | 212.3   | 175.0   | 157.0   | 93.7    | 91.5    | 115.2   | 123.1   | 117.4   | 67.7    |
| 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°    | 6369.5 | 6369.5 | 6369.5 | 6369.5 | 6369.5 | 6369.5 | 6369.5 | 6369.5 | 6369.5 | 6369.5 | 6369.5 |
| 2.5°  | 6386.4 | 6306.3 | 6135.8 | 5999.1 | 5826.4 | 5646.8 | 5546.3 | 5439.1 | 5365.7 | 5312.6 | 5397.3 |
| 5°    | 6435.0 | 6271.2 | 5919.0 | 5584.7 | 5215.5 | 4831.6 | 4540.3 | 4269.3 | 4080.7 | 3963.3 | 4073.9 |
| 7.5°  | 6511.8 | 6260.0 | 5698.8 | 5127.4 | 4464.6 | 3825.5 | 3254.2 | 2896.2 | 2687.4 | 2584.6 | 2649.0 |
| 10°   | 6599.8 | 6241.9 | 5440.2 | 4507.5 | 3559.1 | 2754.0 | 2327.2 | 2182.6 | 2135.2 | 2116.0 | 2125.0 |
| 12.5° | 6673.2 | 6203.5 | 5122.9 | 3757.8 | 2672.7 | 2174.7 | 2051.6 | 2048.3 | 2058.4 | 2060.7 | 2064.1 |
| 15°   | 6725.2 | 6147.0 | 4652.1 | 2976.4 | 2137.5 | 1981.6 | 1974.9 | 1995.2 | 2014.4 | 2022.3 | 2026.8 |
| 17.5° | 6760.2 | 6030.7 | 4120.2 | 2353.1 | 1915.0 | 1887.9 | 1903.7 | 1929.7 | 1950.0 | 1955.7 | 1960.2 |
| 20°   | 6756.8 | 5860.2 | 3486.8 | 1962.4 | 1794.2 | 1794.2 | 1821.3 | 1841.6 | 1842.8 | 1836.0 | 1839.4 |
| 22.5° | 6721.8 | 5626.5 | 2872.5 | 1754.7 | 1686.9 | 1706.1 | 1733.2 | 1714.0 | 1635.0 | 1583.1 | 1586.4 |
| 25°   | 6663.1 | 5347.6 | 2346.4 | 1622.6 | 1587.6 | 1621.4 | 1613.5 | 1469.0 | 1356.1 | 1305.3 | 1305.3 |
| 27.5° | 6611.1 | 5017.9 | 1942.1 | 1507.4 | 1488.2 | 1530.0 | 1390.0 | 1259.0 | 1211.6 | 1187.9 | 1180.0 |
| 30°   | 6573.9 | 4662.2 | 1672.3 | 1396.7 | 1394.5 | 1364.0 | 1205.9 | 1169.8 | 1161.9 | 1142.7 | 1135.9 |
| 32.5° | 6582.9 | 4302.0 | 1499.5 | 1299.6 | 1307.5 | 1167.5 | 1117.8 | 1125.8 | 1119.0 | 1098.7 | 1089.6 |
| 35°   | 6657.4 | 3959.9 | 1386.6 | 1211.6 | 1187.9 | 1054.6 | 1065.9 | 1080.6 | 1078.3 | 1050.1 | 1041.1 |
| 37.5° | 6790.7 | 3635.8 | 1312.1 | 1138.2 | 1036.6 | 998.2  | 1016.2 | 1038.8 | 1033.2 | 1014.0 | 1007.2 |
| 40°   | 6930.7 | 3331.0 | 1251.1 | 1080.6 | 947.3  | 959.8  | 975.6  | 988.0  | 993.6  | 999.3  | 994.8  |
| 42.5° | 7067.3 | 3012.5 | 1176.6 | 1021.9 | 910.1  | 923.6  | 930.4  | 942.8  | 973.3  | 994.8  | 993.6  |
| 45°   | 7148.6 | 2713.3 | 1099.8 | 938.3  | 880.7  | 888.6  | 884.1  | 909.0  | 946.2  | 981.2  | 982.4  |
| 47.5° | 7238.9 | 2480.7 | 1038.8 | 861.5  | 852.5  | 858.1  | 844.6  | 869.4  | 903.3  | 946.2  | 950.7  |
| 50°   | 7348.4 | 2341.8 | 990.3  | 800.6  | 814.1  | 814.1  | 810.7  | 833.3  | 880.7  | 930.4  | 939.4  |
| 52.5° | 7472.7 | 2314.7 | 949.6  | 756.5  | 775.7  | 774.6  | 778.0  | 811.9  | 863.8  | 912.3  | 920.2  |
| 55°   | 7624.0 | 2388.1 | 905.6  | 723.8  | 738.5  | 743.0  | 754.3  | 792.7  | 836.7  | 892.0  | 895.4  |
| 57.5° | 7800.1 | 2537.2 | 870.6  | 697.8  | 704.6  | 719.3  | 737.3  | 772.3  | 819.8  | 880.7  | 884.1  |
| 58°   | 7829.5 | 2568.8 | 864.9  | 695.6  | 697.8  | 714.7  | 735.1  | 768.9  | 816.4  | 883.0  | 886.4  |
| 60°   | 7830.6 | 2673.8 | 852.5  | 685.4  | 671.8  | 700.1  | 722.7  | 756.5  | 810.7  | 890.9  | 898.8  |
| 62.5° | 7552.8 | 2672.7 | 843.5  | 670.7  | 644.7  | 679.7  | 705.7  | 745.2  | 805.1  | 910.1  | 925.9  |
| 65°   | 6650.6 | 2428.8 | 800.6  | 648.1  | 623.3  | 661.7  | 691.0  | 737.3  | 820.9  | 993.6  | 1003.8 |
| 67.5° | 5202.0 | 1990.7 | 720.4  | 616.5  | 595.1  | 643.6  | 682.0  | 736.2  | 837.8  | 1012.8 | 1019.6 |
| 70°   | 3439.4 | 1489.3 | 632.3  | 580.4  | 565.7  | 622.2  | 686.5  | 774.6  | 818.6  | 972.2  | 954.1  |
| 72.5° | 1785.2 | 1045.6 | 561.2  | 535.2  | 531.8  | 603.0  | 752.0  | 770.1  | 799.4  | 914.6  | 892.0  |
| 75°   | 937.2  | 726.0  | 499.1  | 485.5  | 491.2  | 598.4  | 887.5  | 749.7  | 774.6  | 875.1  | 918.0  |
| 77.5° | 573.6  | 586.0  | 446.0  | 440.4  | 451.7  | 584.9  | 886.4  | 723.8  | 738.5  | 805.1  | 852.5  |
| 80°   | 383.9  | 475.4  | 405.4  | 406.5  | 414.4  | 535.2  | 796.0  | 683.1  | 694.4  | 761.0  | 809.6  |
| 82.5° | 242.8  | 281.2  | 368.1  | 387.3  | 377.1  | 441.5  | 676.4  | 622.2  | 638.0  | 870.6  | 920.2  |
| 85°   | 123.1  | 176.1  | 319.5  | 372.6  | 339.9  | 309.4  | 548.8  | 545.4  | 553.3  | 627.8  | 656.0  |
| 87.5° | 56.5   | 97.1   | 249.5  | 325.2  | 256.3  | 193.1  | 398.6  | 404.2  | 435.8  | 446.0  | 446.0  |
| 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)