

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: P193133

Luminaire Tested: **GAN-AF-05-LED-U-T2R-7030-600**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P193133  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-05-LED-U-T2R-7030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 19750.8 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 162  
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



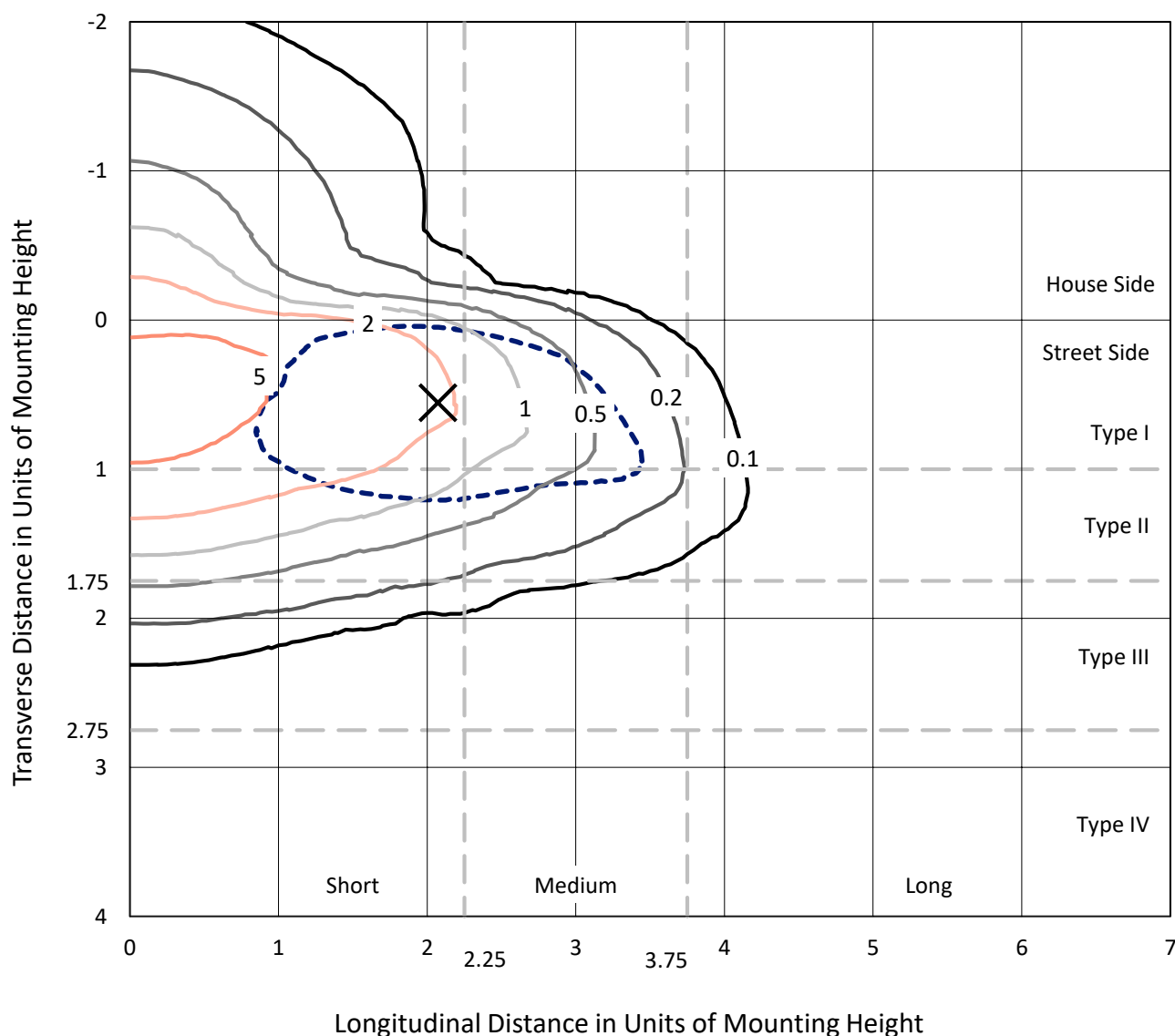
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

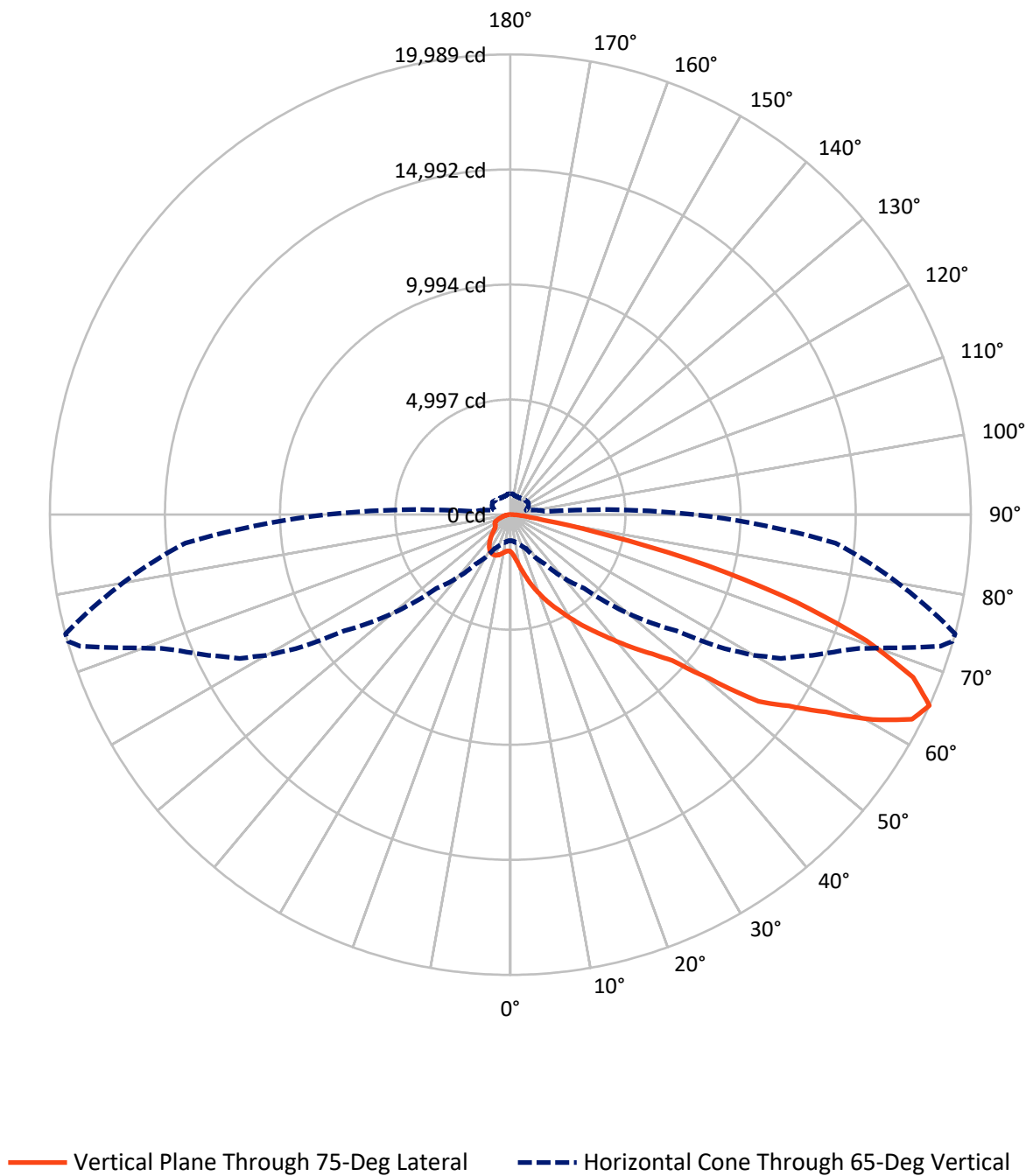


Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3045.1   | 0.0    | 3045.1  |
|                    | % Fixture | 15.4     | 0.0    | 15.4    |
| <b>Street Side</b> | Lumens    | 16705.7  | 0.0    | 16705.7 |
|                    | % Fixture | 84.6     | 0.0    | 84.6    |
| <b>Total</b>       | Lumens    | 19750.8  | 0.0    | 19750.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 198.4   | 1.0       |
| 10°-20°   | 775.2   | 3.9       |
| 20°-30°   | 1590.4  | 8.1       |
| 30°-40°   | 2675.8  | 13.5      |
| 40°-50°   | 3697.2  | 18.7      |
| 50°-60°   | 4615.3  | 23.4      |
| 60°-70°   | 4153.2  | 21.0      |
| 70°-80°   | 1741.0  | 8.8       |
| 80°-90°   | 304.2   | 1.5       |
| 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°    | 19750.8 | 100.0     |
| 0°-180°   | 19750.8 | 100.0     |

**Coefficient of Utilization**



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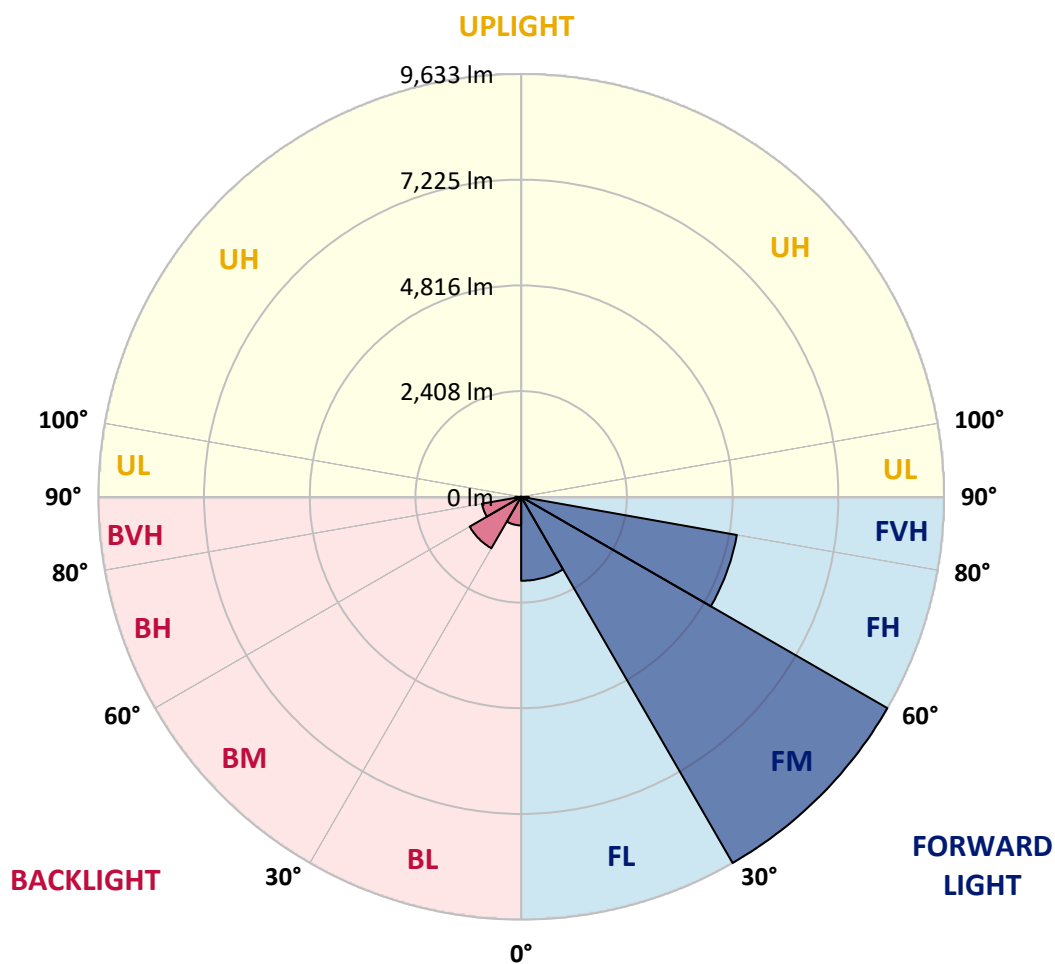
CATALOG NUMBER: GAN-AF-05-LED-U-T2R-7030-600

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1912.8 | 9.7       |                         |      |         |
| FM   | (30°-60°)   | 9632.9 | 48.8      |                         |      |         |
| FH   | (60°-80°)   | 4989.0 | 25.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 171.0  | 0.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 651.2  | 3.3       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1355.4 | 6.9       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 905.3  | 4.6       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 133.2  | 0.7       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 56°     | 57°     | 58°     | 59°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 1605.1 | 1605.1 | 1605.1 | 1605.1 | 1605.1 | 1605.1 | 1605.1  | 1605.1  | 1605.1  | 1605.1  | 1605.1  |
| 2.5°  | 2038.0 | 2015.5 | 2021.2 | 1983.7 | 1937.9 | 1878.0 | 1811.7  | 1810.8  | 1811.7  | 1805.2  | 1780.9  |
| 5°    | 2826.0 | 2798.9 | 2788.7 | 2704.5 | 2581.1 | 2405.4 | 2214.6  | 2194.0  | 2185.6  | 2164.2  | 2114.6  |
| 7.5°  | 3401.0 | 3386.1 | 3370.1 | 3306.5 | 3194.4 | 2998.1 | 2741.9  | 2697.9  | 2655.9  | 2645.6  | 2589.6  |
| 10°   | 3772.0 | 3768.4 | 3734.7 | 3717.9 | 3647.7 | 3477.6 | 3228.1  | 3186.0  | 3140.1  | 3124.3  | 3065.4  |
| 12.5° | 4065.6 | 4064.7 | 4048.8 | 4053.5 | 3992.8 | 3869.3 | 3654.2  | 3615.9  | 3582.3  | 3533.7  | 3491.6  |
| 15°   | 4268.5 | 4269.5 | 4292.8 | 4319.0 | 4309.6 | 4226.4 | 4024.6  | 4007.6  | 3978.6  | 3945.1  | 3895.5  |
| 17.5° | 4435.0 | 4439.5 | 4463.9 | 4511.6 | 4563.0 | 4556.4 | 4396.6  | 4382.6  | 4357.4  | 4311.5  | 4285.3  |
| 20°   | 4810.6 | 4828.5 | 4781.7 | 4781.7 | 4787.3 | 4812.6 | 4736.0  | 4724.7  | 4689.2  | 4665.0  | 4644.3  |
| 22.5° | 5445.5 | 5466.0 | 5360.4 | 5252.8 | 5147.3 | 5070.6 | 4993.9  | 5008.0  | 4983.7  | 4966.8  | 4954.7  |
| 25°   | 6270.1 | 6285.9 | 6114.8 | 5933.5 | 5718.4 | 5438.0 | 5248.3  | 5239.8  | 5226.8  | 5216.5  | 5210.8  |
| 27.5° | 7045.9 | 7052.4 | 6890.8 | 6625.3 | 6375.6 | 5972.7 | 5506.2  | 5496.0  | 5480.1  | 5460.4  | 5443.7  |
| 30°   | 7709.7 | 7707.8 | 7541.4 | 7288.0 | 7020.7 | 6574.7 | 5898.0  | 5866.1  | 5819.3  | 5766.1  | 5724.9  |
| 32.5° | 8284.6 | 8281.9 | 8099.5 | 7836.8 | 7556.4 | 7171.2 | 6434.5  | 6369.0  | 6296.2  | 6192.4  | 6129.8  |
| 35°   | 8737.0 | 8735.2 | 8563.2 | 8289.3 | 7967.7 | 7733.1 | 7049.6  | 6969.3  | 6876.8  | 6737.5  | 6641.1  |
| 37.5° | 8908.1 | 8908.1 | 8811.9 | 8624.9 | 8340.8 | 8179.9 | 7733.1  | 7635.8  | 7536.7  | 7378.8  | 7270.3  |
| 40°   | 8808.2 | 8810.0 | 8830.6 | 8795.9 | 8657.6 | 8534.2 | 8370.6  | 8312.7  | 8227.6  | 8085.5  | 7972.3  |
| 42.5° | 8472.5 | 8482.8 | 8619.3 | 8786.6 | 8855.8 | 8836.2 | 8936.2  | 8910.0  | 8850.2  | 8740.8  | 8651.0  |
| 45°   | 8047.2 | 8078.9 | 8228.6 | 8544.5 | 8910.9 | 9097.0 | 9410.2  | 9413.0  | 9401.8  | 9342.9  | 9273.7  |
| 47.5° | 7462.9 | 7507.7 | 7705.0 | 8132.2 | 8781.9 | 9350.3 | 9891.6  | 9916.8  | 9940.2  | 9901.8  | 9870.2  |
| 50°   | 6687.0 | 6740.2 | 7035.6 | 7602.2 | 8519.3 | 9613.0 | 10801.3 | 10915.2 | 11021.8 | 11008.8 | 11030.3 |
| 52.5° | 5855.9 | 5918.5 | 6280.3 | 6911.3 | 8067.7 | 9673.9 | 11382.6 | 11568.7 | 11754.7 | 11907.2 | 12068.9 |
| 55°   | 5106.1 | 5072.5 | 5434.2 | 6099.0 | 7325.4 | 9399.9 | 11905.2 | 12129.6 | 12337.1 | 12524.2 | 12716.6 |
| 57.5° | 4089.9 | 4145.1 | 4507.8 | 5165.0 | 6342.9 | 8626.8 | 12265.2 | 12593.3 | 12891.5 | 13200.9 | 13474.0 |
| 60°   | 2989.7 | 3044.8 | 3438.4 | 4105.9 | 5276.2 | 7454.4 | 11990.3 | 12487.7 | 12965.4 | 13439.3 | 13809.5 |
| 62.5° | 1805.2 | 1846.4 | 2193.2 | 2828.8 | 4068.5 | 6064.3 | 10765.7 | 11418.2 | 12121.2 | 12687.7 | 13255.3 |
| 65°   | 1123.7 | 1147.0 | 1275.2 | 1624.8 | 2612.9 | 4527.4 | 8795.9  | 9507.4  | 10264.6 | 10983.5 | 11573.4 |
| 67.5° | 919.9  | 928.2  | 951.6  | 1026.5 | 1435.0 | 2952.3 | 6546.7  | 7176.8  | 7860.2  | 8555.6  | 9211.9  |
| 70°   | 827.3  | 821.7  | 821.7  | 826.4  | 919.9  | 1587.3 | 4286.2  | 4696.6  | 5266.0  | 5870.8  | 6471.0  |
| 72.5° | 746.9  | 741.4  | 731.1  | 717.1  | 750.7  | 968.5  | 2215.6  | 2525.0  | 2935.5  | 3473.0  | 4047.8  |
| 75°   | 671.2  | 663.8  | 651.6  | 633.8  | 657.2  | 731.1  | 1063.8  | 1193.7  | 1393.8  | 1680.0  | 2000.5  |
| 77.5° | 592.7  | 583.3  | 572.1  | 559.1  | 588.9  | 568.3  | 623.6   | 670.3   | 746.9   | 838.6   | 959.2   |
| 80°   | 503.9  | 495.5  | 491.7  | 485.2  | 520.7  | 432.8  | 440.4   | 469.3   | 514.2   | 563.7   | 619.8   |
| 82.5° | 394.5  | 394.5  | 409.5  | 412.2  | 451.6  | 311.3  | 329.1   | 354.3   | 377.7   | 403.8   | 430.1   |
| 85°   | 259.9  | 261.7  | 312.3  | 331.8  | 356.1  | 209.4  | 246.8   | 255.2   | 273.9   | 288.9   | 300.1   |
| 87.5° | 81.3   | 87.9   | 190.6  | 211.3  | 204.8  | 118.8  | 151.5   | 155.1   | 168.3   | 178.5   | 187.9   |
| 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):**

|       | 60°     | 61°     | 62°     | 63°     | 64°     | 65°     | 66°     | 67°     | 68°     | 69°     | 70°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1605.1  | 1605.1  | 1605.1  | 1605.1  | 1605.1  | 1605.1  | 1605.1  | 1605.1  | 1605.1  | 1605.1  | 1605.1  |
| 2.5°  | 1780.9  | 1769.7  | 1759.4  | 1758.4  | 1751.0  | 1740.7  | 1744.5  | 1728.5  | 1729.5  | 1721.1  | 1711.6  |
| 5°    | 2094.1  | 2086.6  | 2049.1  | 2038.9  | 2010.8  | 1993.1  | 1990.2  | 1952.9  | 1948.2  | 1926.7  | 1903.3  |
| 7.5°  | 2544.6  | 2520.4  | 2467.9  | 2442.7  | 2395.1  | 2359.6  | 2342.7  | 2293.2  | 2268.9  | 2212.8  | 2187.6  |
| 10°   | 3016.7  | 2985.9  | 2921.4  | 2885.9  | 2840.0  | 2783.1  | 2752.1  | 2680.2  | 2652.2  | 2600.7  | 2539.0  |
| 12.5° | 3454.2  | 3423.4  | 3357.0  | 3329.9  | 3269.1  | 3208.4  | 3174.7  | 3093.4  | 3057.0  | 2974.7  | 2926.1  |
| 15°   | 3859.0  | 3828.2  | 3770.2  | 3742.2  | 3681.4  | 3631.9  | 3587.0  | 3506.5  | 3463.6  | 3386.9  | 3323.3  |
| 17.5° | 4251.8  | 4218.9  | 4168.5  | 4143.2  | 4084.3  | 4033.9  | 3985.2  | 3909.6  | 3865.6  | 3788.9  | 3731.9  |
| 20°   | 4616.3  | 4591.9  | 4555.4  | 4521.8  | 4462.9  | 4417.2  | 4359.2  | 4293.8  | 4230.2  | 4174.0  | 4119.8  |
| 22.5° | 4934.1  | 4924.8  | 4885.5  | 4870.6  | 4820.1  | 4780.7  | 4730.3  | 4665.8  | 4620.0  | 4549.0  | 4498.5  |
| 25°   | 5208.1  | 5205.2  | 5186.5  | 5181.8  | 5146.3  | 5109.0  | 5097.7  | 5044.4  | 5002.3  | 4939.7  | 4887.3  |
| 27.5° | 5443.7  | 5446.5  | 5441.7  | 5454.9  | 5445.5  | 5428.6  | 5429.5  | 5411.8  | 5387.5  | 5335.1  | 5289.3  |
| 30°   | 5705.4  | 5690.4  | 5698.9  | 5717.5  | 5723.1  | 5724.9  | 5755.9  | 5766.1  | 5764.3  | 5729.7  | 5707.2  |
| 32.5° | 6075.6  | 6040.1  | 6007.3  | 6004.6  | 6023.3  | 6030.7  | 6083.0  | 6110.1  | 6133.5  | 6141.9  | 6145.8  |
| 35°   | 6547.7  | 6476.6  | 6408.4  | 6371.9  | 6340.1  | 6348.5  | 6385.9  | 6429.9  | 6481.3  | 6516.8  | 6558.9  |
| 37.5° | 7142.2  | 7055.3  | 6934.6  | 6848.7  | 6827.2  | 6780.4  | 6804.7  | 6839.3  | 6889.8  | 6944.9  | 7017.9  |
| 40°   | 7863.0  | 7731.1  | 7595.6  | 7481.5  | 7419.9  | 7333.9  | 7332.9  | 7326.4  | 7357.2  | 7408.7  | 7511.5  |
| 42.5° | 8556.6  | 8439.8  | 8295.8  | 8176.2  | 8095.8  | 7980.8  | 7957.4  | 7896.6  | 7910.7  | 7955.5  | 8055.5  |
| 45°   | 9206.4  | 9110.0  | 9022.2  | 8883.9  | 8815.6  | 8691.2  | 8652.0  | 8580.0  | 8539.8  | 8560.4  | 8660.4  |
| 47.5° | 9835.5  | 9773.8  | 9682.2  | 9592.4  | 9540.1  | 9428.8  | 9378.4  | 9326.9  | 9275.6  | 9273.7  | 9378.4  |
| 50°   | 11062.1 | 11029.2 | 10920.9 | 10827.4 | 10852.6 | 10716.1 | 10724.6 | 10586.2 | 10648.9 | 10656.3 | 10876.0 |
| 52.5° | 12214.6 | 12328.7 | 12409.1 | 12507.4 | 12570.9 | 12583.1 | 12625.1 | 12687.7 | 12763.4 | 12913.1 | 13116.8 |
| 55°   | 12874.7 | 13017.7 | 13100.9 | 13175.7 | 13299.1 | 13325.3 | 13395.4 | 13478.7 | 13545.0 | 13713.2 | 13886.2 |
| 57.5° | 13659.0 | 13924.5 | 14053.6 | 14172.2 | 14338.6 | 14402.2 | 14519.1 | 14609.8 | 14695.8 | 14894.9 | 15104.3 |
| 60°   | 14142.3 | 14465.8 | 14728.4 | 14916.4 | 15124.9 | 15274.5 | 15451.1 | 15593.3 | 15795.2 | 16033.6 | 16345.7 |
| 62.5° | 13758.2 | 14232.9 | 14581.7 | 14904.3 | 15187.5 | 15473.6 | 15726.9 | 15992.4 | 16299.1 | 16659.9 | 17144.1 |
| 65°   | 12227.7 | 12711.1 | 13308.5 | 13643.1 | 14018.0 | 14459.3 | 14844.4 | 15274.5 | 15692.4 | 16217.7 | 16933.8 |
| 67.5° | 9843.9  | 10405.8 | 11077.0 | 11414.5 | 11845.5 | 12338.1 | 12770.0 | 13295.3 | 13783.4 | 14420.0 | 15305.2 |
| 70°   | 7095.6  | 7821.9  | 8386.5  | 8738.9  | 9241.9  | 9749.5  | 10166.5 | 10777.9 | 11181.7 | 11834.2 | 12749.5 |
| 72.5° | 4492.8  | 5066.0  | 5757.8  | 6201.8  | 6648.7  | 7162.8  | 7589.0  | 8116.4  | 8493.0  | 9087.6  | 9916.8  |
| 75°   | 2415.6  | 2838.2  | 3445.8  | 3867.4  | 4346.2  | 4785.4  | 5284.7  | 5638.1  | 5916.6  | 6386.9  | 7060.0  |
| 77.5° | 1132.2  | 1389.2  | 1696.8  | 2021.2  | 2345.6  | 2684.0  | 3013.1  | 3299.1  | 3418.7  | 3687.9  | 4085.3  |
| 80°   | 687.1   | 770.3   | 860.1   | 960.1   | 1095.7  | 1205.0  | 1349.9  | 1454.6  | 1462.1  | 1547.2  | 1668.7  |
| 82.5° | 459.0   | 489.8   | 517.1   | 542.3   | 576.8   | 603.8   | 634.8   | 671.2   | 686.1   | 705.9   | 745.0   |
| 85°   | 313.1   | 328.1   | 333.8   | 349.6   | 346.0   | 355.2   | 367.4   | 379.5   | 386.1   | 385.1   | 402.9   |
| 87.5° | 192.7   | 200.1   | 203.8   | 207.5   | 204.8   | 201.0   | 206.6   | 213.2   | 215.0   | 209.4   | 211.3   |
| 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):**

|       | 71°     | 72°     | 73°     | 74°     | 75°     | 85°     | 90°    | 95°    | 105°   | 115°   | 125°   |
|-------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|
| 0°    | 1605.1  | 1605.1  | 1605.1  | 1605.1  | 1605.1  | 1605.1  | 1605.1 | 1605.1 | 1605.1 | 1605.1 | 1605.1 |
| 2.5°  | 1713.6  | 1705.2  | 1696.8  | 1691.2  | 1689.2  | 1639.8  | 1618.2 | 1604.2 | 1574.3 | 1550.0 | 1530.4 |
| 5°    | 1890.3  | 1872.4  | 1858.5  | 1841.7  | 1832.3  | 1707.0  | 1661.2 | 1629.4 | 1577.0 | 1546.2 | 1518.1 |
| 7.5°  | 2174.5  | 2124.9  | 2095.9  | 2063.3  | 2035.2  | 1808.9  | 1733.2 | 1683.6 | 1610.7 | 1569.6 | 1537.9 |
| 10°   | 2497.0  | 2445.5  | 2399.8  | 2349.3  | 2305.4  | 1944.5  | 1834.1 | 1757.6 | 1661.2 | 1608.0 | 1565.9 |
| 12.5° | 2856.9  | 2806.5  | 2748.4  | 2684.0  | 2627.9  | 2116.5  | 1963.2 | 1853.8 | 1722.0 | 1650.9 | 1592.0 |
| 15°   | 3282.2  | 3193.4  | 3123.2  | 3048.6  | 2983.1  | 2322.2  | 2113.7 | 1962.2 | 1786.5 | 1690.2 | 1611.7 |
| 17.5° | 3677.6  | 3584.2  | 3488.8  | 3423.4  | 3347.7  | 2553.1  | 2265.2 | 2072.5 | 1839.8 | 1715.5 | 1615.4 |
| 20°   | 4063.8  | 3961.8  | 3879.6  | 3791.8  | 3712.3  | 2792.3  | 2426.8 | 2169.8 | 1874.4 | 1716.4 | 1592.0 |
| 22.5° | 4404.0  | 4340.6  | 4248.9  | 4153.5  | 4073.0  | 3031.7  | 2578.3 | 2252.1 | 1887.5 | 1694.8 | 1550.9 |
| 25°   | 4791.1  | 4723.9  | 4611.7  | 4531.2  | 4441.5  | 3275.7  | 2726.9 | 2315.6 | 1880.1 | 1654.6 | 1487.3 |
| 27.5° | 5204.2  | 5129.5  | 5014.6  | 4930.4  | 4821.9  | 3529.1  | 2863.4 | 2361.4 | 1852.0 | 1589.2 | 1402.3 |
| 30°   | 5635.3  | 5567.0  | 5453.9  | 5368.8  | 5259.4  | 3797.3  | 3015.8 | 2392.2 | 1795.7 | 1498.6 | 1303.1 |
| 32.5° | 6098.0  | 6041.0  | 5928.9  | 5840.0  | 5723.1  | 4088.1  | 3157.9 | 2401.6 | 1710.8 | 1391.1 | 1198.5 |
| 35°   | 6537.4  | 6498.0  | 6403.6  | 6320.5  | 6199.0  | 4362.9  | 3308.4 | 2396.9 | 1609.8 | 1273.3 | 1103.1 |
| 37.5° | 7031.9  | 7008.6  | 6961.8  | 6856.1  | 6707.5  | 4736.0  | 3488.8 | 2377.3 | 1486.4 | 1156.4 | 1030.2 |
| 40°   | 7559.2  | 7561.1  | 7510.6  | 7438.6  | 7300.1  | 5188.4  | 3703.9 | 2339.0 | 1351.7 | 1053.6 | 963.7  |
| 42.5° | 8117.3  | 8146.3  | 8121.9  | 8070.6  | 7937.8  | 5644.6  | 3960.9 | 2292.3 | 1220.9 | 953.5  | 898.4  |
| 45°   | 8756.7  | 8792.2  | 8829.6  | 8753.9  | 8624.9  | 6246.7  | 4299.4 | 2231.5 | 1079.7 | 870.4  | 853.6  |
| 47.5° | 9494.3  | 9550.4  | 9584.0  | 9585.0  | 9456.0  | 6992.6  | 4849.0 | 2195.0 | 954.5  | 814.2  | 832.0  |
| 50°   | 11050.8 | 11068.6 | 11148.0 | 11286.4 | 11187.3 | 8719.3  | 5809.1 | 2172.6 | 869.3  | 779.7  | 816.1  |
| 52.5° | 13293.5 | 13488.9 | 13626.3 | 13617.0 | 13482.4 | 9815.9  | 6338.2 | 2056.7 | 818.9  | 766.6  | 808.6  |
| 55°   | 14206.9 | 14450.8 | 14705.1 | 14772.4 | 14667.7 | 10751.6 | 6838.4 | 1940.8 | 794.7  | 776.0  | 811.5  |
| 57.5° | 15424.0 | 15835.4 | 16184.0 | 16330.9 | 16179.3 | 11949.2 | 7496.5 | 1880.1 | 787.1  | 801.2  | 829.2  |
| 60°   | 16845.9 | 17354.5 | 17812.5 | 18076.2 | 18076.2 | 13325.3 | 8178.9 | 1854.7 | 776.9  | 838.6  | 859.1  |
| 62.5° | 17759.2 | 18506.3 | 19198.0 | 19584.0 | 19572.8 | 14283.5 | 8481.9 | 1768.7 | 753.5  | 864.7  | 900.3  |
| 65°   | 17763.1 | 18651.1 | 19532.8 | 19966.5 | 19988.9 | 14165.7 | 7981.7 | 1562.1 | 710.5  | 868.5  | 941.4  |
| 67.5° | 16282.3 | 17229.2 | 18256.5 | 18741.8 | 18854.0 | 13040.2 | 6909.4 | 1284.5 | 640.4  | 831.0  | 956.3  |
| 70°   | 13751.6 | 14676.1 | 15725.0 | 16201.8 | 16400.9 | 11116.2 | 5565.1 | 990.0  | 550.6  | 748.9  | 925.5  |
| 72.5° | 10833.9 | 11740.7 | 12470.9 | 12819.5 | 12974.7 | 8496.8  | 4052.5 | 747.9  | 451.6  | 631.0  | 842.3  |
| 75°   | 7670.4  | 8351.0  | 8738.9  | 8816.5  | 8840.8  | 5122.0  | 2462.3 | 556.2  | 372.0  | 490.8  | 711.4  |
| 77.5° | 4329.3  | 4620.9  | 4589.1  | 4623.8  | 4335.9  | 1977.1  | 1072.3 | 398.2  | 306.6  | 373.0  | 551.5  |
| 80°   | 1690.2  | 1742.5  | 1636.9  | 1604.2  | 1471.4  | 735.8   | 473.0  | 277.6  | 245.0  | 282.3  | 386.1  |
| 82.5° | 745.0   | 769.4   | 746.9   | 752.6   | 719.8   | 379.5   | 283.3  | 201.0  | 187.0  | 206.6  | 256.1  |
| 85°   | 410.4   | 417.9   | 416.1   | 428.2   | 410.4   | 151.5   | 134.6  | 123.4  | 130.9  | 140.2  | 164.6  |
| 87.5° | 200.1   | 201.9   | 195.3   | 205.6   | 199.1   | 76.7    | 66.3   | 70.2   | 76.7   | 78.5   | 78.5   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P193133

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**CANDELA DISTRIBUTION (continued):**

|       | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 1605.1 | 1605.1 | 1605.1 | 1605.1 | 1605.1 | 1605.1 |
| 2.5°  | 1516.3 | 1508.9 | 1509.8 | 1507.9 | 1504.2 | 1504.2 |
| 5°    | 1503.2 | 1495.8 | 1495.8 | 1493.9 | 1489.2 | 1490.2 |
| 7.5°  | 1516.3 | 1504.2 | 1499.5 | 1492.9 | 1486.4 | 1486.4 |
| 10°   | 1531.3 | 1509.8 | 1496.7 | 1485.5 | 1477.0 | 1477.0 |
| 12.5° | 1542.5 | 1508.9 | 1487.3 | 1472.4 | 1464.0 | 1464.0 |
| 15°   | 1546.2 | 1502.4 | 1472.4 | 1454.6 | 1447.1 | 1446.1 |
| 17.5° | 1534.1 | 1477.0 | 1440.6 | 1420.1 | 1410.6 | 1408.0 |
| 20°   | 1496.7 | 1431.3 | 1387.3 | 1364.0 | 1350.9 | 1346.2 |
| 22.5° | 1440.6 | 1365.8 | 1314.4 | 1290.2 | 1273.3 | 1270.4 |
| 25°   | 1362.0 | 1281.7 | 1231.3 | 1207.9 | 1198.5 | 1195.7 |
| 27.5° | 1270.4 | 1195.7 | 1152.6 | 1137.7 | 1129.3 | 1128.3 |
| 30°   | 1183.5 | 1119.9 | 1088.1 | 1077.0 | 1066.7 | 1064.8 |
| 32.5° | 1102.2 | 1062.0 | 1049.9 | 1033.9 | 1009.7 | 1006.9 |
| 35°   | 1044.2 | 1040.4 | 1032.1 | 996.6  | 966.6  | 958.2  |
| 37.5° | 1008.7 | 1043.3 | 1000.3 | 930.2  | 908.7  | 906.9  |
| 40°   | 988.1  | 1014.3 | 940.5  | 916.1  | 918.0  | 916.1  |
| 42.5° | 941.4  | 968.5  | 942.4  | 931.1  | 938.5  | 940.5  |
| 45°   | 894.7  | 924.6  | 956.3  | 948.9  | 966.6  | 966.6  |
| 47.5° | 868.5  | 913.3  | 955.4  | 955.4  | 981.5  | 991.0  |
| 50°   | 838.6  | 904.0  | 940.5  | 953.5  | 974.1  | 966.6  |
| 52.5° | 836.7  | 888.1  | 919.0  | 942.4  | 951.6  | 943.2  |
| 55°   | 839.4  | 875.0  | 897.4  | 923.7  | 934.8  | 935.8  |
| 57.5° | 843.3  | 867.5  | 882.5  | 894.7  | 928.2  | 928.2  |
| 60°   | 852.6  | 861.0  | 869.3  | 875.9  | 919.9  | 920.8  |
| 62.5° | 867.5  | 854.4  | 852.6  | 859.1  | 915.3  | 911.4  |
| 65°   | 890.9  | 845.1  | 831.0  | 837.6  | 910.5  | 899.3  |
| 67.5° | 922.7  | 831.0  | 803.9  | 808.6  | 906.9  | 882.5  |
| 70°   | 951.6  | 808.6  | 770.3  | 765.7  | 871.3  | 828.3  |
| 72.5° | 954.5  | 782.6  | 723.7  | 709.5  | 757.2  | 716.0  |
| 75°   | 907.7  | 764.7  | 672.2  | 631.0  | 625.4  | 619.8  |
| 77.5° | 818.1  | 754.4  | 612.3  | 547.8  | 536.6  | 540.3  |
| 80°   | 684.3  | 716.0  | 540.3  | 463.7  | 524.5  | 517.9  |
| 82.5° | 511.4  | 631.9  | 459.0  | 410.4  | 409.5  | 361.7  |
| 85°   | 284.2  | 492.6  | 373.8  | 307.6  | 214.0  | 207.5  |
| 87.5° | 79.4   | 273.9  | 261.7  | 173.8  | 118.8  | 123.4  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)