

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: P194076

Luminaire Tested: **GAN-AF-08-LED-U-T4FT-8030**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P194076  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-08-LED-U-T4FT-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 39161 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

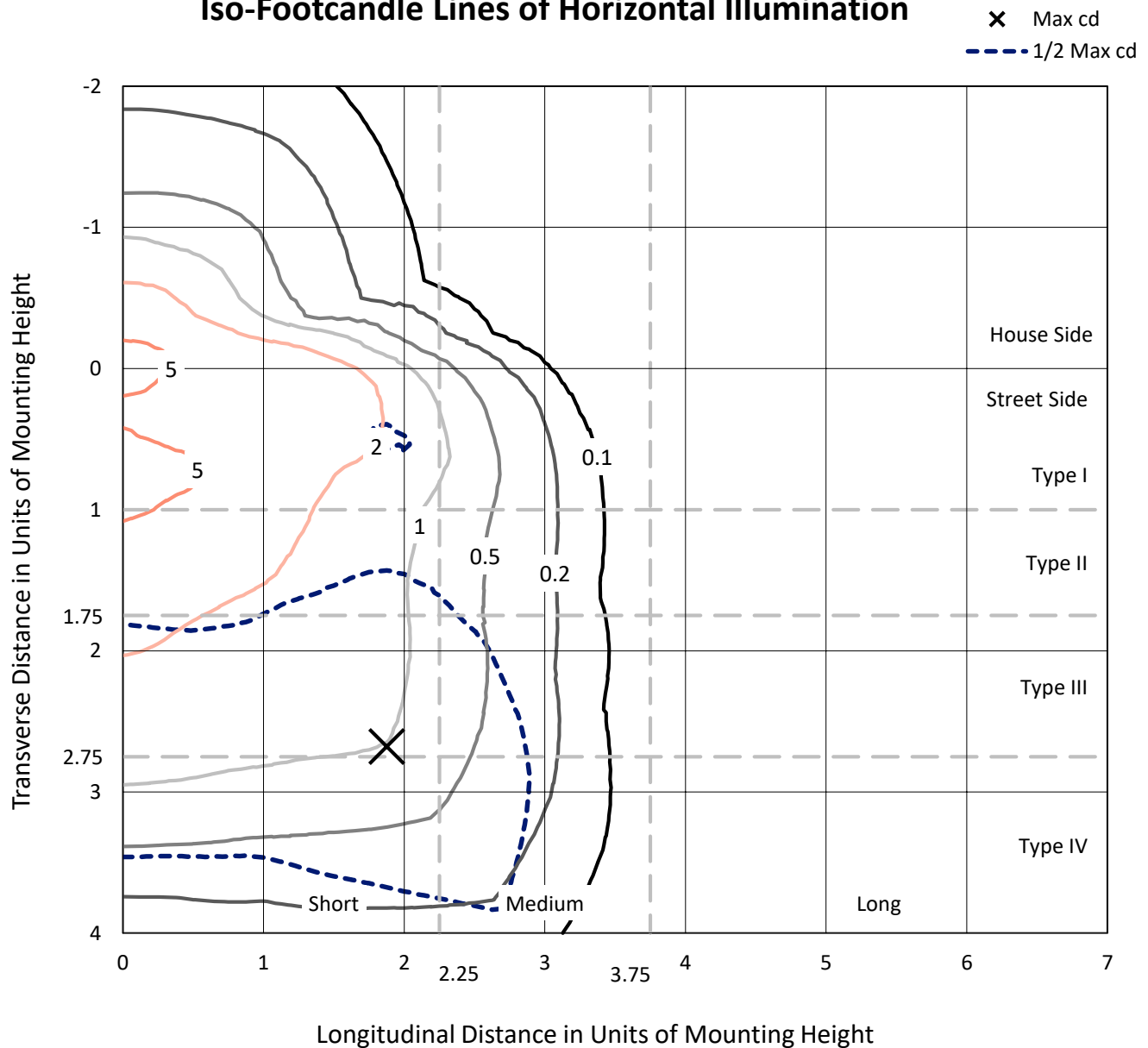
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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## Iso-Footcandle Lines of Horizontal Illumination

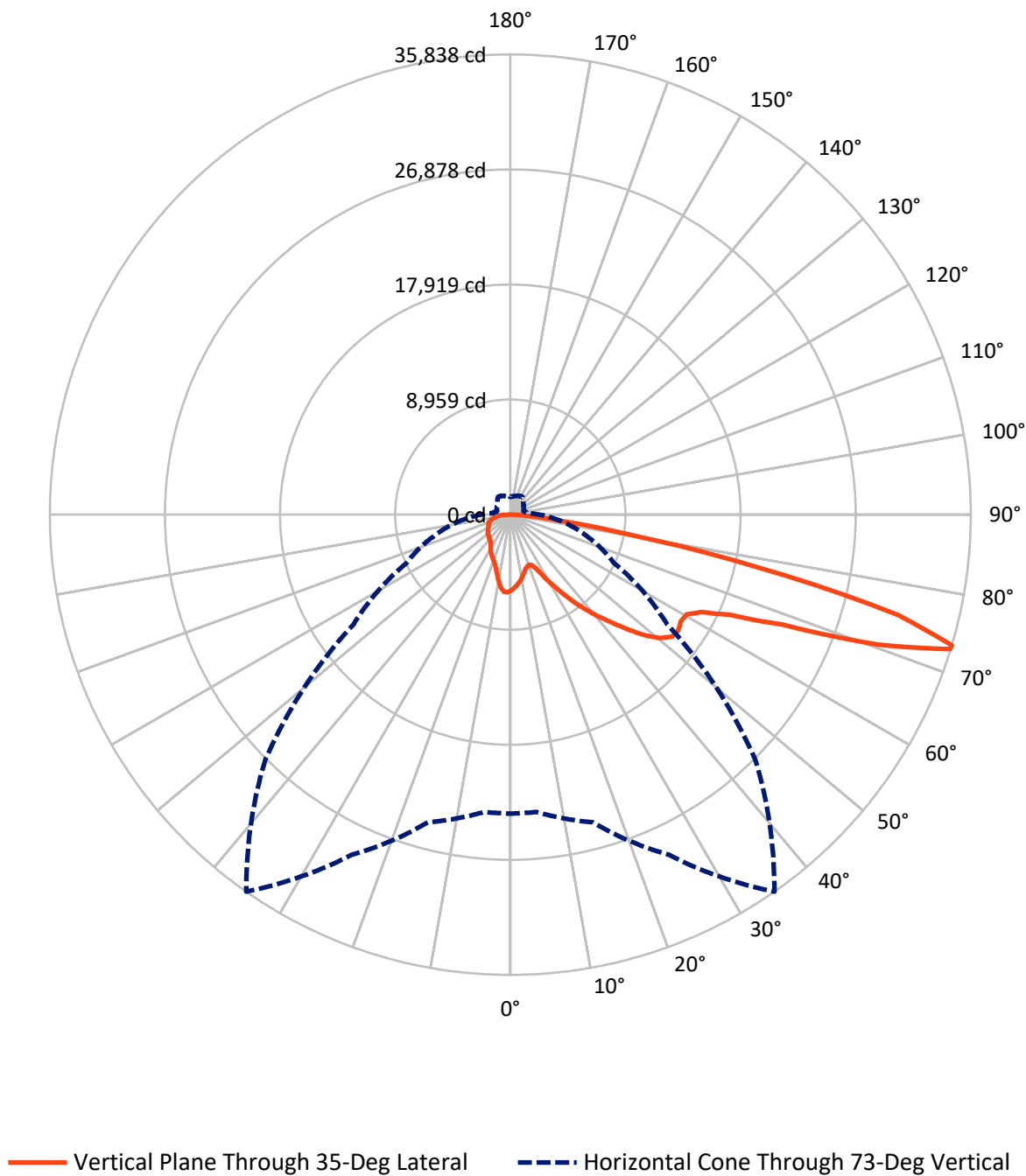


Based on 30 foot mounting height. Maximum calculated value = 6.6 fc  
Type IV - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7469.1   | 0.0    | 7469.1  |
|                    | % Fixture | 19.1     | 0.0    | 19.1    |
| <b>Street Side</b> | Lumens    | 31691.9  | 0.0    | 31691.9 |
|                    | % Fixture | 80.9     | 0.0    | 80.9    |
| <b>Total</b>       | Lumens    | 39161.0  | 0.0    | 39161.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 535.1   | 1.4       |
| 10°-20°   | 1335.5  | 3.4       |
| 20°-30°   | 2159.0  | 5.5       |
| 30°-40°   | 3620.3  | 9.2       |
| 40°-50°   | 5580.6  | 14.3      |
| 50°-60°   | 7486.9  | 19.1      |
| 60°-70°   | 9974.1  | 25.5      |
| 70°-80°   | 7607.2  | 19.4      |
| 80°-90°   | 862.2   | 2.2       |
| 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°    | 39161.0 | 100.0     |
| 0°-180°   | 39161.0 | 100.0     |

**Coefficient of Utilization**



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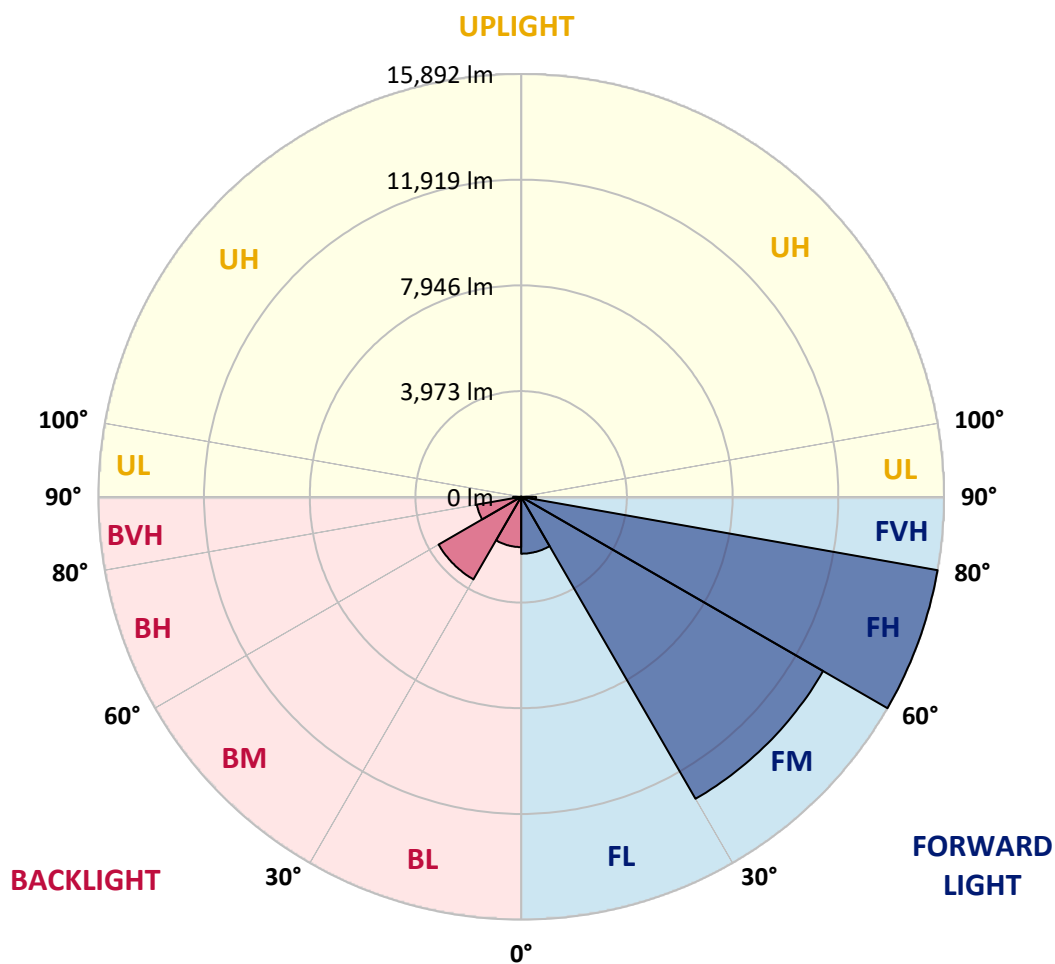
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2139.5  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 13103.5 | 33.5      |                         |      |         |
| FH   | (60°-80°)   | 15891.5 | 40.6      |                         |      | G5      |
| FVH  | (80°-90°)   | 557.4   | 1.4       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1890.0  | 4.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3584.3  | 9.2       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1689.8  | 4.3       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 304.9   | 0.8       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5910.6  | 5910.6  | 5910.6  | 5910.6  | 5910.6  | 5910.6  | 5910.6  | 5910.6  | 5910.6  | 5910.6  | 5910.6  |
| 2.5°  | 5677.4  | 5688.7  | 5675.5  | 5692.5  | 5720.7  | 5750.8  | 5771.4  | 5801.5  | 5835.4  | 5882.4  | 5893.7  |
| 5°    | 5410.4  | 5427.3  | 5427.3  | 5457.4  | 5511.9  | 5560.8  | 5606.0  | 5654.9  | 5726.3  | 5807.2  | 5839.2  |
| 7.5°  | 5117.0  | 5126.4  | 5143.3  | 5188.5  | 5267.5  | 5337.0  | 5401.0  | 5480.0  | 5577.8  | 5684.9  | 5741.4  |
| 10°   | 4763.5  | 4776.6  | 4803.0  | 4866.9  | 4974.1  | 5070.0  | 5162.1  | 5271.2  | 5395.3  | 5528.9  | 5600.3  |
| 12.5° | 4513.4  | 4509.6  | 4520.9  | 4567.9  | 4661.9  | 4778.5  | 4912.0  | 5051.2  | 5203.5  | 5359.6  | 5446.1  |
| 15°   | 4428.7  | 4408.0  | 4364.8  | 4353.5  | 4404.3  | 4520.9  | 4675.1  | 4846.2  | 5028.6  | 5216.7  | 5323.9  |
| 17.5° | 4481.4  | 4445.7  | 4327.2  | 4240.7  | 4233.1  | 4321.5  | 4485.1  | 4677.0  | 4887.6  | 5117.0  | 5250.5  |
| 20°   | 4812.4  | 4727.7  | 4436.2  | 4235.0  | 4165.4  | 4208.7  | 4351.6  | 4554.7  | 4803.0  | 5107.6  | 5278.7  |
| 22.5° | 5604.1  | 5480.0  | 4861.3  | 4487.0  | 4252.0  | 4199.3  | 4306.5  | 4522.8  | 4812.4  | 5224.2  | 5442.4  |
| 25°   | 6756.9  | 6580.1  | 5590.9  | 5115.1  | 4629.9  | 4349.7  | 4374.2  | 4596.1  | 4945.9  | 5495.0  | 5758.3  |
| 27.5° | 7667.1  | 7552.3  | 6544.4  | 6000.9  | 5318.2  | 4755.9  | 4594.2  | 4780.4  | 5218.6  | 5938.8  | 6207.7  |
| 30°   | 8208.7  | 8139.1  | 7563.6  | 7005.1  | 6196.5  | 5402.9  | 5015.5  | 5126.4  | 5645.5  | 6553.8  | 6775.7  |
| 32.5° | 8836.8  | 8795.4  | 8513.3  | 7999.9  | 7144.3  | 6252.9  | 5683.1  | 5643.6  | 6217.1  | 7292.8  | 7394.4  |
| 35°   | 9487.4  | 9474.3  | 9308.8  | 8940.2  | 8161.6  | 7373.7  | 6568.8  | 6301.8  | 6839.6  | 8060.1  | 7996.2  |
| 37.5° | 10093.0 | 10070.4 | 9974.5  | 9760.1  | 9226.0  | 8577.3  | 7471.5  | 6976.9  | 7511.0  | 8793.5  | 8509.6  |
| 40°   | 11208.2 | 11031.4 | 10702.3 | 10540.6 | 10301.7 | 9590.9  | 8188.0  | 7606.9  | 8206.8  | 9493.1  | 8953.4  |
| 42.5° | 12567.8 | 12280.1 | 11667.0 | 11445.1 | 11411.3 | 10390.1 | 8676.9  | 8218.1  | 8908.2  | 10187.0 | 9389.7  |
| 45°   | 13637.8 | 13367.0 | 12838.6 | 12558.4 | 12682.5 | 11114.1 | 9167.7  | 8870.6  | 9630.4  | 10914.8 | 9839.1  |
| 47.5° | 14779.3 | 14354.3 | 13654.8 | 13739.4 | 14010.2 | 11798.7 | 9668.0  | 9572.1  | 10422.1 | 11729.1 | 10397.6 |
| 50°   | 14820.7 | 14495.4 | 14188.9 | 14694.7 | 15116.0 | 12428.6 | 10294.2 | 10307.4 | 11390.6 | 12754.0 | 11140.5 |
| 52.5° | 13961.3 | 13891.7 | 14378.8 | 15174.3 | 15781.7 | 12927.0 | 11006.9 | 11067.1 | 12629.9 | 13931.2 | 11956.6 |
| 55°   | 13660.4 | 13581.4 | 14143.7 | 15006.9 | 15872.0 | 13338.8 | 11779.9 | 11888.9 | 14128.7 | 15172.4 | 12752.1 |
| 57.5° | 14393.8 | 14218.9 | 14256.6 | 14927.9 | 15651.9 | 13790.2 | 12622.3 | 12842.4 | 15757.2 | 16257.5 | 13263.6 |
| 60°   | 16443.6 | 16069.4 | 15358.6 | 15341.6 | 15770.4 | 14467.2 | 13596.5 | 13865.4 | 17449.7 | 16776.5 | 13064.3 |
| 62.5° | 19319.0 | 18944.8 | 17613.4 | 16746.4 | 16682.5 | 15584.2 | 14792.5 | 14864.0 | 18427.6 | 16073.2 | 11847.6 |
| 65°   | 22431.4 | 22096.6 | 20609.1 | 19384.8 | 18794.4 | 17434.7 | 16182.2 | 15309.7 | 18107.9 | 14138.1 | 9718.8  |
| 67.5° | 26209.4 | 25850.2 | 24571.4 | 23441.2 | 22873.3 | 20421.0 | 17158.3 | 14882.8 | 16078.8 | 10952.4 | 6986.3  |
| 70°   | 28851.6 | 28484.9 | 27980.9 | 28896.7 | 30286.5 | 24729.4 | 17284.3 | 13147.0 | 12009.3 | 7279.7  | 4204.9  |
| 72.5° | 25404.5 | 25233.4 | 26153.0 | 30010.0 | 35798.4 | 27343.4 | 15623.7 | 9572.1  | 6975.0  | 3864.6  | 2433.4  |
| 73°   | 23275.7 | 23238.1 | 24806.5 | 29229.6 | 35837.9 | 26941.0 | 14895.9 | 8896.9  | 5982.1  | 3418.9  | 2224.7  |
| 75°   | 10510.5 | 10813.2 | 14250.9 | 22326.1 | 31136.5 | 22200.1 | 10484.1 | 5103.8  | 3379.4  | 2362.0  | 1679.3  |
| 77.5° | 2525.6  | 2630.9  | 4458.8  | 10602.6 | 19663.2 | 13229.8 | 4750.3  | 2523.7  | 2160.8  | 1668.1  | 1226.1  |
| 80°   | 1075.7  | 1111.4  | 1717.0  | 3917.2  | 9258.0  | 5327.6  | 2189.0  | 1690.6  | 1495.0  | 1164.1  | 859.4   |
| 82.5° | 598.0   | 635.6   | 974.1   | 1777.1  | 3736.7  | 1816.6  | 1335.2  | 1177.2  | 983.5   | 701.5   | 558.5   |
| 85°   | 338.5   | 359.2   | 569.8   | 992.9   | 1583.4  | 729.7   | 799.2   | 782.3   | 554.8   | 361.1   | 274.6   |
| 87.5° | 159.8   | 173.0   | 274.6   | 460.7   | 620.6   | 285.8   | 406.2   | 447.6   | 347.9   | 220.0   | 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5910.6 | 5910.6 | 5910.6 | 5910.6 | 5910.6 | 5910.6 | 5910.6 | 5910.6 | 5910.6 | 5910.6 |
| 2.5°  | 5906.9 | 5940.7 | 5980.2 | 6000.9 | 6019.7 | 6042.3 | 6064.8 | 6064.8 | 6068.6 | 6070.5 |
| 5°    | 5865.5 | 5935.1 | 5997.1 | 6023.4 | 6029.1 | 6029.1 | 6023.4 | 5993.4 | 5967.0 | 5978.3 |
| 7.5°  | 5779.0 | 5880.5 | 5933.2 | 5923.8 | 5852.3 | 5769.6 | 5700.0 | 5615.4 | 5572.1 | 5564.6 |
| 10°   | 5654.9 | 5771.4 | 5780.9 | 5686.8 | 5510.1 | 5333.3 | 5186.6 | 5043.7 | 4976.0 | 4959.0 |
| 12.5° | 5517.6 | 5624.8 | 5564.6 | 5370.9 | 5086.9 | 4829.3 | 4643.1 | 4498.3 | 4434.4 | 4417.4 |
| 15°   | 5406.6 | 5480.0 | 5327.6 | 5023.0 | 4665.7 | 4393.0 | 4238.8 | 4131.6 | 4086.5 | 4073.3 |
| 17.5° | 5348.3 | 5363.4 | 5085.0 | 4673.2 | 4293.3 | 4065.8 | 3969.9 | 3919.1 | 3902.2 | 3892.8 |
| 20°   | 5376.5 | 5271.2 | 4853.7 | 4347.9 | 3988.7 | 3828.8 | 3806.3 | 3793.1 | 3789.3 | 3783.7 |
| 22.5° | 5517.6 | 5243.0 | 4641.2 | 4039.5 | 3721.6 | 3652.1 | 3670.9 | 3669.0 | 3665.2 | 3661.5 |
| 25°   | 5769.6 | 5267.5 | 4434.4 | 3746.1 | 3497.8 | 3482.8 | 3516.7 | 3516.7 | 3501.6 | 3501.6 |
| 27.5° | 6102.4 | 5318.2 | 4203.1 | 3467.8 | 3294.7 | 3296.6 | 3323.0 | 3315.4 | 3298.5 | 3287.2 |
| 30°   | 6508.6 | 5350.2 | 3932.3 | 3217.6 | 3104.8 | 3097.3 | 3104.8 | 3072.8 | 3022.1 | 3018.3 |
| 32.5° | 6924.2 | 5310.7 | 3618.2 | 2995.7 | 2903.6 | 2886.7 | 2881.0 | 2835.9 | 2777.6 | 2760.7 |
| 35°   | 7300.3 | 5165.9 | 3298.5 | 2819.0 | 2711.8 | 2674.2 | 2700.5 | 2685.4 | 2632.8 | 2619.6 |
| 37.5° | 7574.9 | 4897.0 | 3010.8 | 2662.9 | 2574.5 | 2565.1 | 2582.0 | 2587.7 | 2525.6 | 2512.4 |
| 40°   | 7759.2 | 4532.2 | 2764.4 | 2531.2 | 2548.2 | 2512.4 | 2456.0 | 2416.5 | 2397.7 | 2392.1 |
| 42.5° | 7907.8 | 4152.3 | 2557.6 | 2469.2 | 2553.8 | 2450.4 | 2328.1 | 2264.2 | 2298.0 | 2313.1 |
| 45°   | 8078.9 | 3781.8 | 2384.6 | 2392.1 | 2525.6 | 2378.9 | 2239.8 | 2177.7 | 2190.9 | 2194.6 |
| 47.5° | 8314.0 | 3330.5 | 2198.4 | 2268.0 | 2431.6 | 2330.0 | 2185.2 | 2096.8 | 2034.8 | 2006.6 |
| 50°   | 8639.3 | 2796.4 | 2004.7 | 2128.8 | 2339.4 | 2294.3 | 2100.6 | 2006.6 | 1891.8 | 1865.5 |
| 52.5° | 8865.0 | 2298.0 | 1844.8 | 2012.2 | 2256.7 | 2222.8 | 2032.9 | 1910.7 | 1790.3 | 1767.7 |
| 55°   | 8742.7 | 1908.8 | 1705.7 | 1882.4 | 2147.6 | 2134.4 | 1976.5 | 1812.9 | 1718.8 | 1700.0 |
| 57.5° | 8131.6 | 1662.4 | 1598.5 | 1760.2 | 2014.1 | 2059.2 | 1901.2 | 1730.1 | 1662.4 | 1649.3 |
| 60°   | 6965.6 | 1508.2 | 1530.8 | 1677.5 | 1905.0 | 1984.0 | 1826.0 | 1685.0 | 1639.9 | 1630.4 |
| 62.5° | 5404.7 | 1404.8 | 1480.0 | 1617.3 | 1820.4 | 1931.3 | 1784.7 | 1679.3 | 1662.4 | 1651.1 |
| 65°   | 3872.1 | 1322.0 | 1425.5 | 1557.1 | 1743.3 | 1882.4 | 1769.6 | 1671.8 | 1675.6 | 1666.2 |
| 67.5° | 2630.9 | 1248.7 | 1359.6 | 1489.4 | 1668.1 | 1839.2 | 1748.9 | 1645.5 | 1692.5 | 1681.2 |
| 70°   | 1841.1 | 1177.2 | 1282.5 | 1402.9 | 1574.0 | 1779.0 | 1711.3 | 1606.0 | 1602.2 | 1557.1 |
| 72.5° | 1436.8 | 1083.2 | 1177.2 | 1282.5 | 1453.7 | 1694.4 | 1636.1 | 1517.6 | 1455.6 | 1408.5 |
| 73°   | 1370.9 | 1060.6 | 1150.9 | 1256.2 | 1427.3 | 1673.7 | 1615.4 | 1493.2 | 1423.6 | 1380.3 |
| 75°   | 1134.0 | 962.8  | 1045.6 | 1139.6 | 1314.5 | 1575.9 | 1513.9 | 1382.2 | 1293.8 | 1267.5 |
| 77.5° | 891.4  | 823.7  | 902.7  | 987.3  | 1158.4 | 1433.0 | 1363.4 | 1237.4 | 1188.5 | 1165.9 |
| 80°   | 660.1  | 682.6  | 752.2  | 827.4  | 1004.2 | 1280.7 | 1218.6 | 1092.6 | 1310.8 | 1256.2 |
| 82.5° | 464.5  | 517.2  | 581.1  | 648.8  | 842.5  | 1132.1 | 1056.9 | 927.1  | 959.1  | 797.4  |
| 85°   | 274.6  | 338.5  | 398.7  | 457.0  | 607.4  | 938.4  | 872.6  | 739.1  | 605.5  | 577.3  |
| 87.5° | 159.8  | 188.1  | 205.0  | 265.2  | 417.5  | 707.1  | 614.9  | 547.2  | 314.1  | 212.5  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)