

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: P193218

Luminaire Tested: **GAN-AF-10-LED-U-T3R-7030-600-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193218  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-10-LED-U-T3R-7030-600-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38386 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G5

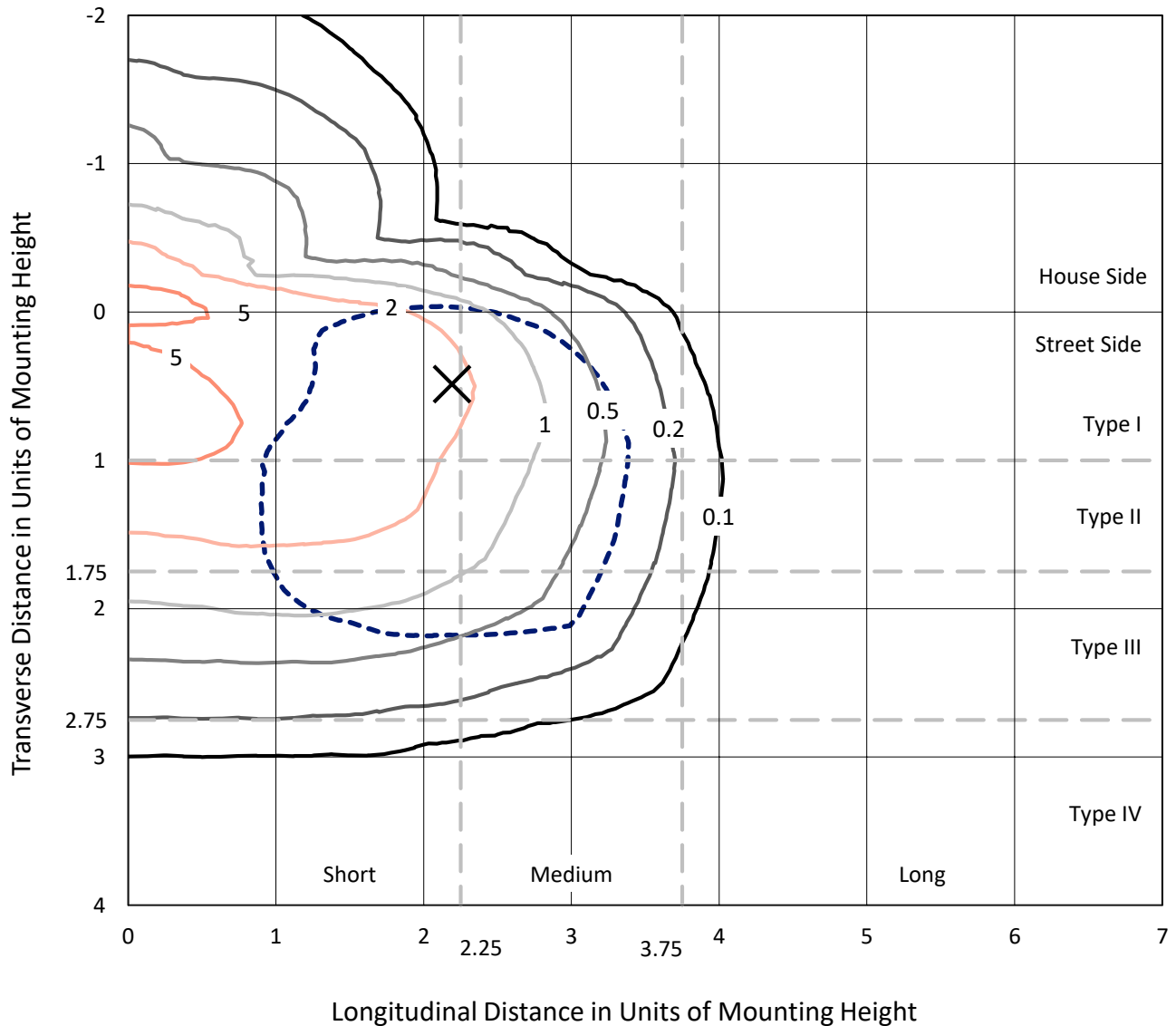
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

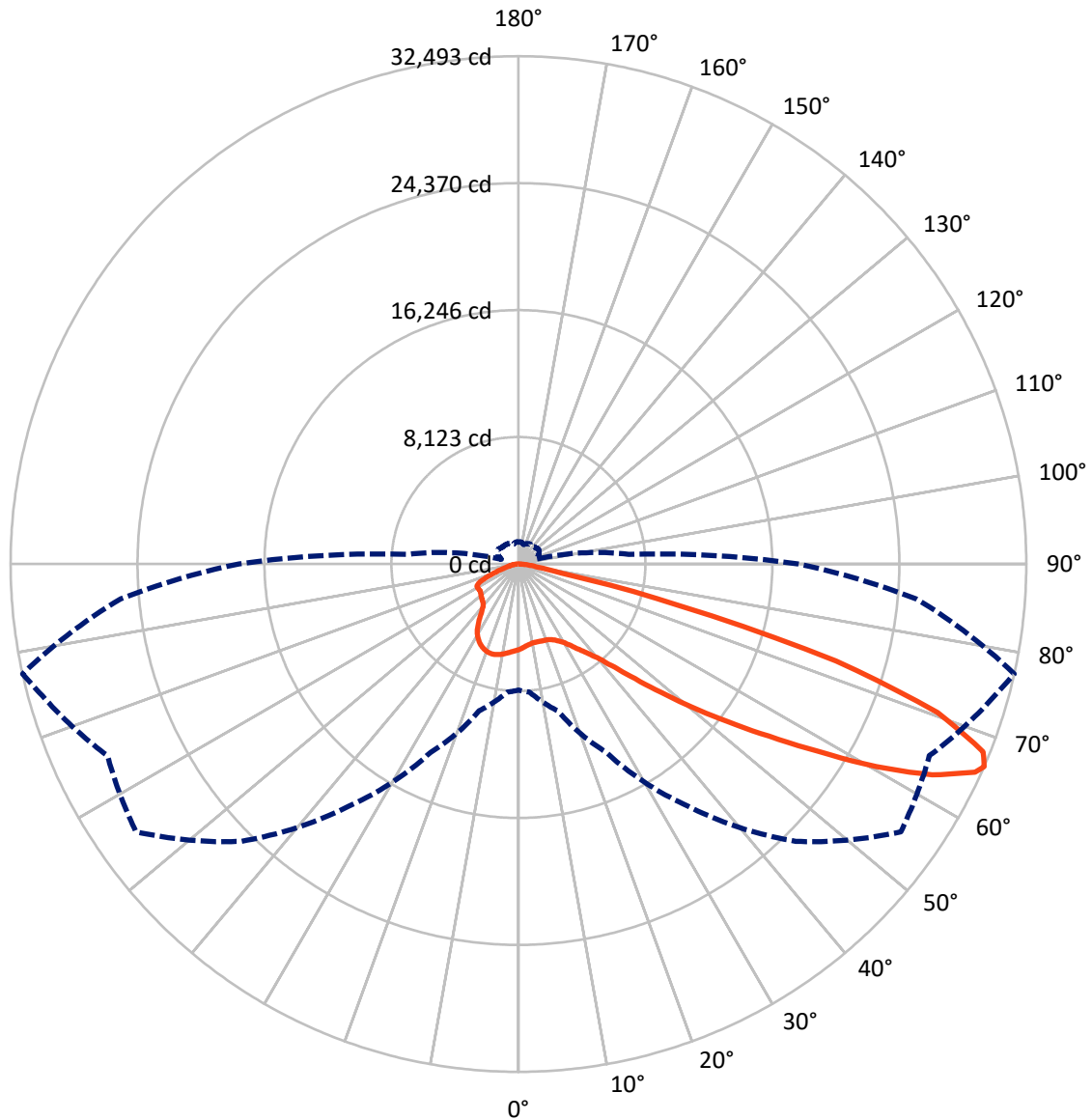


Based on 30 foot mounting height. Maximum calculated value = 7.5 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6558.0   | 0.0    | 6558.0  |
|                    | % Fixture | 17.1     | 0.0    | 17.1    |
| <b>Street Side</b> | Lumens    | 31828.0  | 0.0    | 31828.0 |
|                    | % Fixture | 82.9     | 0.0    | 82.9    |
| <b>Total</b>       | Lumens    | 38386.0  | 0.0    | 38386.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 488.7   | 1.3       |
| 10°-20°   | 1378.7  | 3.6       |
| 20°-30°   | 2353.1  | 6.1       |
| 30°-40°   | 3766.8  | 9.8       |
| 40°-50°   | 5819.4  | 15.2      |
| 50°-60°   | 8253.9  | 21.5      |
| 60°-70°   | 11041.5 | 28.8      |
| 70°-80°   | 4795.1  | 12.5      |
| 80°-90°   | 488.9   | 1.3       |
| 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°    | 38386.0 | 100.0     |
| 0°-180°   | 38386.0 | 100.0     |

**Coefficient of Utilization**



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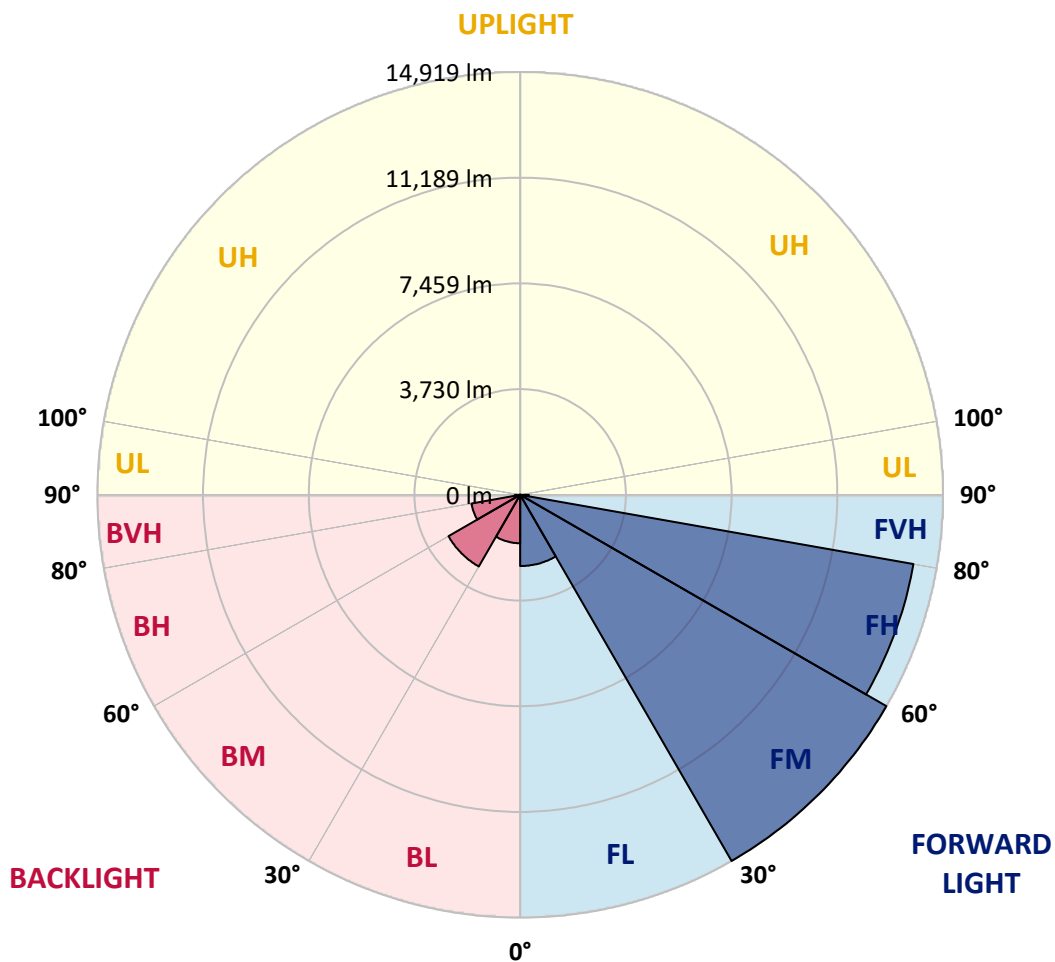
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2512.5  | 6.5       |                         |      |         |
| FM   | (30°-60°)   | 14918.8 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 14090.0 | 36.7      |                         |      | G5      |
| FVH  | (80°-90°)   | 306.7   | 0.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1708.0  | 4.4       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2921.2  | 7.6       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1746.5  | 4.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 182.3   | 0.5       |                         |      | 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 Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77.5°   | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5470.2  | 5470.2  | 5470.2  | 5470.2  | 5470.2  | 5470.2  | 5470.2  | 5470.2  | 5470.2  | 5470.2  | 5470.2  |
| 2.5°  | 4839.0  | 4871.7  | 4898.8  | 4924.4  | 4975.0  | 5058.4  | 5154.7  | 5232.7  | 5345.1  | 5366.9  | 5426.7  |
| 5°    | 4394.6  | 4394.6  | 4416.4  | 4454.5  | 4523.5  | 4648.6  | 4779.2  | 4953.3  | 5198.1  | 5256.1  | 5415.8  |
| 7.5°  | 4178.8  | 4180.6  | 4193.4  | 4225.9  | 4285.8  | 4400.1  | 4543.3  | 4748.3  | 5080.2  | 5176.3  | 5448.4  |
| 10°   | 4258.6  | 4240.5  | 4213.2  | 4196.9  | 4206.1  | 4273.1  | 4409.1  | 4637.7  | 5007.7  | 5131.1  | 5521.0  |
| 12.5° | 4704.8  | 4670.4  | 4576.0  | 4450.9  | 4331.1  | 4282.2  | 4361.9  | 4585.1  | 4976.9  | 5120.1  | 5617.1  |
| 15°   | 5433.9  | 5419.4  | 5243.5  | 4984.1  | 4693.9  | 4450.9  | 4396.5  | 4565.2  | 4980.5  | 5132.9  | 5731.4  |
| 17.5° | 6348.1  | 6328.1  | 6095.9  | 5718.6  | 5245.3  | 4771.9  | 4518.0  | 4581.5  | 4993.1  | 5154.7  | 5842.0  |
| 20°   | 7271.2  | 7209.6  | 6959.3  | 6509.4  | 5901.8  | 5209.1  | 4719.4  | 4623.2  | 5009.5  | 5178.3  | 5958.1  |
| 22.5° | 7960.4  | 7909.6  | 7684.7  | 7247.6  | 6547.6  | 5715.1  | 4989.6  | 4695.8  | 5062.1  | 5247.0  | 6101.4  |
| 25°   | 8566.3  | 8569.9  | 8346.8  | 7924.1  | 7200.5  | 6252.0  | 5337.8  | 4889.8  | 5196.4  | 5388.5  | 6297.2  |
| 27.5° | 9315.3  | 9271.7  | 9063.2  | 8644.3  | 7846.1  | 6794.2  | 5758.6  | 5156.4  | 5395.9  | 5589.9  | 6554.8  |
| 30°   | 10211.3 | 10180.4 | 9939.2  | 9464.0  | 8562.6  | 7376.4  | 6239.2  | 5466.6  | 5653.4  | 5854.6  | 6892.2  |
| 32.5° | 11265.0 | 11250.5 | 11000.2 | 10389.0 | 9389.6  | 8062.0  | 6803.2  | 5876.5  | 6037.8  | 6246.5  | 7376.4  |
| 35°   | 12502.0 | 12503.8 | 12208.2 | 11473.7 | 10294.7 | 8860.1  | 7443.5  | 6404.2  | 6505.9  | 6723.5  | 7953.2  |
| 37.5° | 13263.7 | 13356.3 | 13245.6 | 12496.5 | 11319.5 | 9752.4  | 8274.2  | 7104.4  | 7039.0  | 7258.5  | 8571.7  |
| 40°   | 13427.0 | 13539.4 | 13889.5 | 13508.6 | 12465.7 | 10735.5 | 9010.6  | 7777.3  | 7695.6  | 7964.0  | 9367.9  |
| 42.5° | 13198.5 | 13354.4 | 14094.5 | 14362.9 | 13682.7 | 11947.0 | 10000.8 | 8776.6  | 8673.2  | 9034.2  | 10358.3 |
| 45°   | 13062.5 | 13178.6 | 14034.6 | 14807.3 | 14738.3 | 13316.4 | 11261.5 | 10031.7 | 9993.6  | 10467.0 | 11500.8 |
| 47.5° | 12826.7 | 12931.8 | 13755.3 | 14910.6 | 15358.6 | 14571.5 | 12775.9 | 11566.0 | 11640.5 | 12260.7 | 12790.4 |
| 50°   | 12953.7 | 12997.2 | 13443.4 | 14647.7 | 15538.2 | 15491.0 | 14468.1 | 13343.7 | 13597.6 | 14372.0 | 14250.4 |
| 52.5° | 12935.5 | 13048.0 | 13407.1 | 14215.9 | 15561.8 | 16058.7 | 16134.9 | 15326.1 | 15861.0 | 16749.8 | 15870.1 |
| 55°   | 10458.0 | 10664.7 | 12980.9 | 14107.1 | 15645.2 | 16615.5 | 17618.5 | 17415.4 | 18412.9 | 19448.5 | 17698.4 |
| 57.5° | 9986.4  | 10117.0 | 11401.1 | 14335.7 | 16087.8 | 17678.3 | 19269.0 | 19715.2 | 21383.7 | 22586.3 | 19925.6 |
| 60°   | 9893.9  | 10055.2 | 11384.7 | 14614.9 | 16985.6 | 19410.5 | 21715.8 | 22499.2 | 24998.6 | 26315.3 | 22508.3 |
| 62.5° | 9605.5  | 9779.6  | 11277.7 | 14578.7 | 18260.6 | 21806.4 | 24848.1 | 25459.3 | 28426.5 | 29707.0 | 24668.4 |
| 65°   | 8691.3  | 8854.6  | 10405.3 | 13993.0 | 19120.3 | 24363.7 | 28555.4 | 28172.6 | 31132.6 | 32095.7 | 25745.9 |
| 66°   | 8065.6  | 8225.2  | 9717.9  | 13303.6 | 18920.8 | 25089.3 | 29868.4 | 29012.3 | 31738.4 | 32492.9 | 25535.4 |
| 67.5° | 6921.1  | 7046.3  | 8383.0  | 11760.2 | 17859.7 | 25292.4 | 30973.1 | 29643.5 | 31801.9 | 32068.4 | 24332.9 |
| 70°   | 4372.9  | 4409.1  | 5448.4  | 8118.2  | 13519.5 | 21935.2 | 29291.7 | 28076.5 | 29179.3 | 28457.3 | 20398.9 |
| 72.5° | 1897.2  | 1884.5  | 2615.3  | 4129.9  | 7653.9  | 14718.5 | 23694.5 | 23166.7 | 22889.2 | 21242.4 | 14279.4 |
| 75°   | 1055.6  | 1070.0  | 1358.5  | 1917.1  | 3110.5  | 7229.4  | 15500.1 | 14832.6 | 12523.8 | 10686.4 | 6475.0  |
| 77.5° | 847.0   | 867.0   | 1126.4  | 1360.3  | 1396.6  | 2521.0  | 7253.0  | 5901.8  | 3553.1  | 2851.2  | 1799.2  |
| 80°   | 669.2   | 705.5   | 983.0   | 1059.3  | 941.4   | 1039.3  | 2343.3  | 1873.6  | 1405.6  | 1289.6  | 932.3   |
| 82.5° | 529.6   | 555.0   | 843.4   | 801.6   | 658.4   | 700.2   | 1122.7  | 1093.6  | 914.1   | 832.4   | 538.6   |
| 85°   | 380.9   | 428.1   | 692.8   | 603.9   | 431.7   | 471.6   | 745.4   | 714.5   | 524.1   | 428.1   | 237.6   |
| 87.5° | 156.0   | 203.1   | 489.7   | 400.9   | 241.3   | 219.5   | 371.8   | 350.0   | 248.4   | 181.4   | 117.9   |
| 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°    | 5470.2  | 5470.2 | 5470.2 | 5470.2 | 5470.2 | 5470.2 | 5470.2 | 5470.2 | 5470.2 | 5470.2 | 5470.2 |
| 2.5°  | 5464.7  | 5508.3 | 5564.5 | 5599.0 | 5617.1 | 5629.8 | 5649.8 | 5647.9 | 5653.4 | 5655.2 | 5662.5 |
| 5°    | 5500.9  | 5573.6 | 5655.2 | 5677.0 | 5677.0 | 5657.0 | 5637.0 | 5604.5 | 5591.7 | 5588.1 | 5591.7 |
| 7.5°  | 5595.3  | 5675.2 | 5745.8 | 5720.5 | 5666.0 | 5586.3 | 5482.8 | 5392.2 | 5343.3 | 5326.9 | 5323.3 |
| 10°   | 5715.1  | 5811.2 | 5840.2 | 5744.1 | 5584.5 | 5392.2 | 5187.3 | 5038.5 | 4953.3 | 4929.7 | 4922.4 |
| 12.5° | 5860.1  | 5950.8 | 5910.9 | 5707.8 | 5412.1 | 5102.0 | 4819.1 | 4581.5 | 4403.7 | 4347.5 | 4343.8 |
| 15°   | 6019.7  | 6090.4 | 5950.8 | 5595.3 | 5154.7 | 4697.6 | 4193.4 | 3783.4 | 3562.2 | 3491.4 | 3486.0 |
| 17.5° | 6168.4  | 6204.8 | 5927.2 | 5399.5 | 4775.5 | 4035.5 | 3366.3 | 3050.7 | 2974.5 | 2992.6 | 2996.3 |
| 20°   | 6295.4  | 6295.4 | 5847.4 | 5118.4 | 4178.8 | 3163.2 | 2740.5 | 2735.1 | 2789.5 | 2843.9 | 2854.8 |
| 22.5° | 6435.1  | 6351.7 | 5707.8 | 4721.1 | 3333.6 | 2588.2 | 2526.5 | 2577.3 | 2638.9 | 2698.8 | 2707.9 |
| 25°   | 6607.5  | 6397.0 | 5513.8 | 4119.0 | 2620.8 | 2350.6 | 2374.2 | 2415.8 | 2446.8 | 2484.8 | 2490.2 |
| 27.5° | 6799.6  | 6455.0 | 5258.0 | 3290.2 | 2274.4 | 2201.9 | 2220.0 | 2234.5 | 2230.8 | 2245.4 | 2249.0 |
| 30°   | 7030.0  | 6522.1 | 4907.9 | 2571.9 | 2131.1 | 2075.0 | 2042.3 | 2029.6 | 2029.6 | 2053.1 | 2062.2 |
| 32.5° | 7338.3  | 6621.8 | 4405.6 | 2203.6 | 2062.2 | 1984.2 | 1879.0 | 1831.8 | 1850.0 | 1929.8 | 1948.0 |
| 35°   | 7677.5  | 6728.9 | 3725.4 | 2078.5 | 2047.7 | 1942.5 | 1779.3 | 1692.2 | 1694.1 | 1768.4 | 1792.0 |
| 37.5° | 8047.5  | 6865.0 | 2979.9 | 2054.9 | 2080.3 | 1944.3 | 1726.7 | 1606.9 | 1558.0 | 1558.0 | 1567.1 |
| 40°   | 8520.9  | 7004.6 | 2412.2 | 2071.2 | 2149.2 | 1966.1 | 1699.4 | 1539.9 | 1402.1 | 1405.6 | 1412.9 |
| 42.5° | 9137.6  | 7124.4 | 2107.5 | 2105.8 | 2232.7 | 1995.1 | 1697.7 | 1451.0 | 1331.4 | 1412.9 | 1487.2 |
| 45°   | 9823.2  | 7184.2 | 1973.3 | 2136.6 | 2299.8 | 2013.2 | 1668.6 | 1436.4 | 1340.4 | 1583.3 | 1724.8 |
| 47.5° | 10612.2 | 7149.7 | 1898.9 | 2147.5 | 2316.1 | 2013.2 | 1635.9 | 1470.9 | 1403.9 | 1833.7 | 1998.7 |
| 50°   | 11477.2 | 7050.0 | 1826.4 | 2125.6 | 2310.8 | 2009.6 | 1666.9 | 1505.4 | 1427.4 | 1877.2 | 1991.5 |
| 52.5° | 12494.8 | 6966.5 | 1750.3 | 2078.5 | 2272.6 | 1989.6 | 1703.2 | 1490.9 | 1353.0 | 1706.7 | 1786.5 |
| 55°   | 13655.6 | 6990.1 | 1665.0 | 2011.5 | 2212.7 | 1951.6 | 1690.4 | 1432.8 | 1275.0 | 1503.6 | 1552.6 |
| 57.5° | 15139.2 | 7271.2 | 1563.4 | 1926.1 | 2131.1 | 1888.1 | 1645.0 | 1405.6 | 1251.4 | 1363.9 | 1392.9 |
| 60°   | 16795.2 | 7760.9 | 1436.4 | 1840.9 | 2029.6 | 1786.5 | 1610.6 | 1418.3 | 1262.4 | 1353.0 | 1367.6 |
| 62.5° | 18010.3 | 8045.7 | 1327.6 | 1715.8 | 1891.8 | 1674.1 | 1567.1 | 1434.7 | 1291.3 | 1391.1 | 1387.5 |
| 65°   | 18340.4 | 7577.7 | 1191.6 | 1532.6 | 1704.9 | 1556.2 | 1512.7 | 1452.8 | 1304.1 | 1422.0 | 1405.6 |
| 66°   | 17877.9 | 7073.6 | 1131.8 | 1447.3 | 1610.6 | 1498.2 | 1485.5 | 1451.0 | 1298.6 | 1425.7 | 1398.4 |
| 67.5° | 16755.2 | 6039.8 | 1028.3 | 1322.2 | 1460.0 | 1411.1 | 1441.9 | 1434.7 | 1284.2 | 1422.0 | 1383.9 |
| 70°   | 13664.6 | 4120.8 | 879.6  | 1100.9 | 1215.2 | 1242.4 | 1358.5 | 1376.6 | 1237.0 | 1358.5 | 1275.0 |
| 72.5° | 9547.4  | 2510.2 | 778.0  | 854.3  | 983.0  | 1059.3 | 1244.3 | 1296.8 | 1173.5 | 1186.2 | 1106.4 |
| 75°   | 4614.1  | 1333.1 | 705.5  | 662.0  | 763.6  | 885.1  | 1106.4 | 1187.9 | 1073.7 | 992.1  | 963.1  |
| 77.5° | 1438.3  | 814.3  | 598.5  | 533.1  | 598.5  | 714.5  | 925.0  | 1041.1 | 955.8  | 830.7  | 819.8  |
| 80°   | 772.7   | 598.5  | 460.6  | 428.1  | 473.4  | 560.4  | 727.3  | 868.7  | 821.6  | 745.4  | 665.6  |
| 82.5° | 509.7   | 388.1  | 341.0  | 331.9  | 360.9  | 428.1  | 540.5  | 720.0  | 720.0  | 638.4  | 464.4  |
| 85°   | 263.0   | 237.6  | 234.0  | 234.0  | 252.1  | 284.7  | 368.2  | 555.0  | 591.3  | 337.4  | 279.2  |
| 87.5° | 130.6   | 136.0  | 127.0  | 132.4  | 141.5  | 139.7  | 175.9  | 279.2  | 333.7  | 205.0  | 170.5  |
| 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)