

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: P194066

Luminaire Tested: **GAN-AF-08-LED-U-T4FT-8030-800**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P194066  
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-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 800mA 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: 31640 lumens  
Efficiency: N/A  
Efficacy: 94.7 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): 334  
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



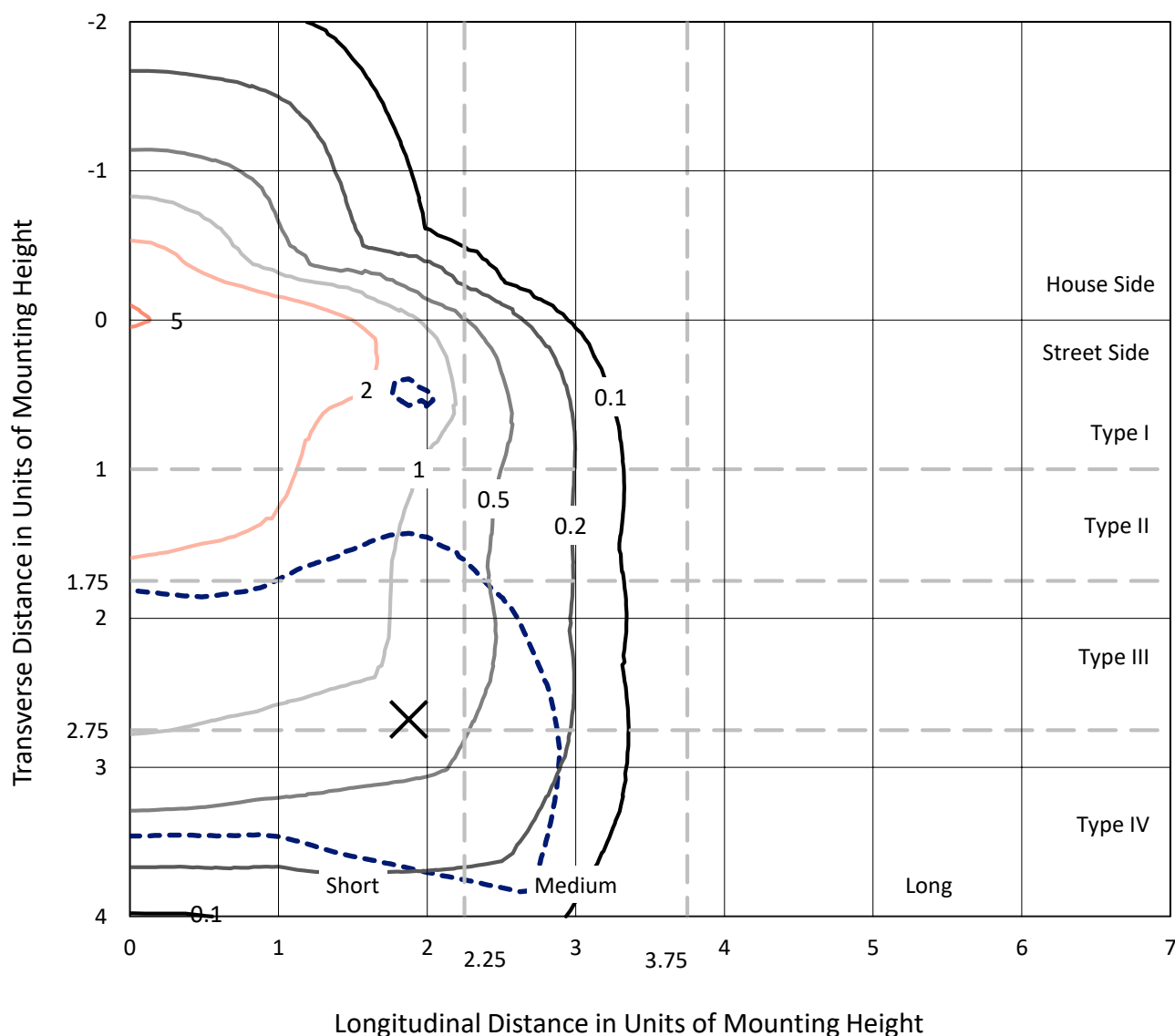
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

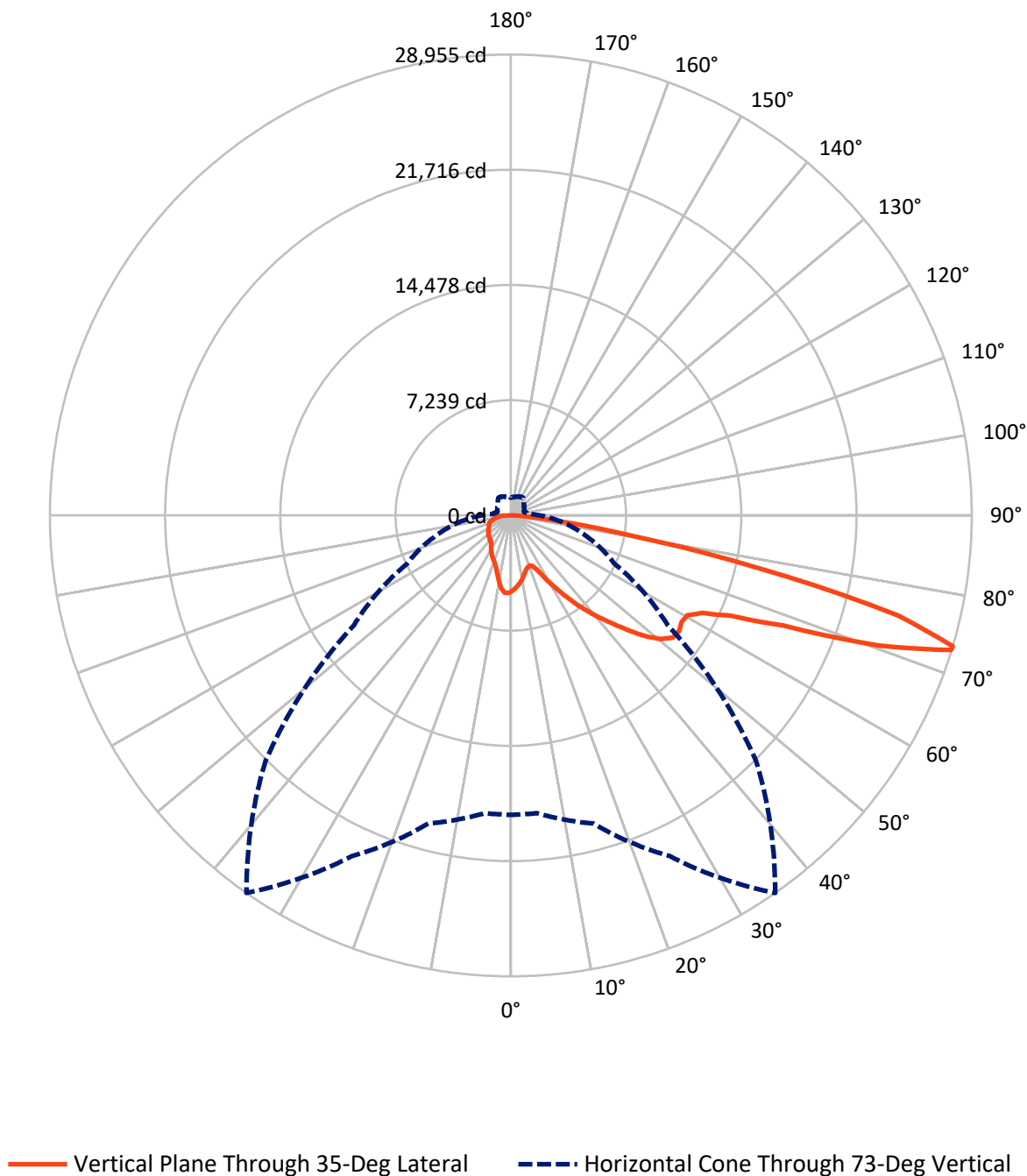


Based on 30 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6034.6   | 0.0    | 6034.6  |
|                    | % Fixture | 19.1     | 0.0    | 19.1    |
| <b>Street Side</b> | Lumens    | 25605.4  | 0.0    | 25605.4 |
|                    | % Fixture | 80.9     | 0.0    | 80.9    |
| <b>Total</b>       | Lumens    | 31640.0  | 0.0    | 31640.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 432.3   | 1.4       |
| 10°-20°   | 1079.0  | 3.4       |
| 20°-30°   | 1744.4  | 5.5       |
| 30°-40°   | 2925.0  | 9.2       |
| 40°-50°   | 4508.8  | 14.3      |
| 50°-60°   | 6049.1  | 19.1      |
| 60°-70°   | 8058.6  | 25.5      |
| 70°-80°   | 6146.2  | 19.4      |
| 80°-90°   | 696.6   | 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°    | 31640.0 | 100.0     |
| 0°-180°   | 31640.0 | 100.0     |

**Coefficient of Utilization**



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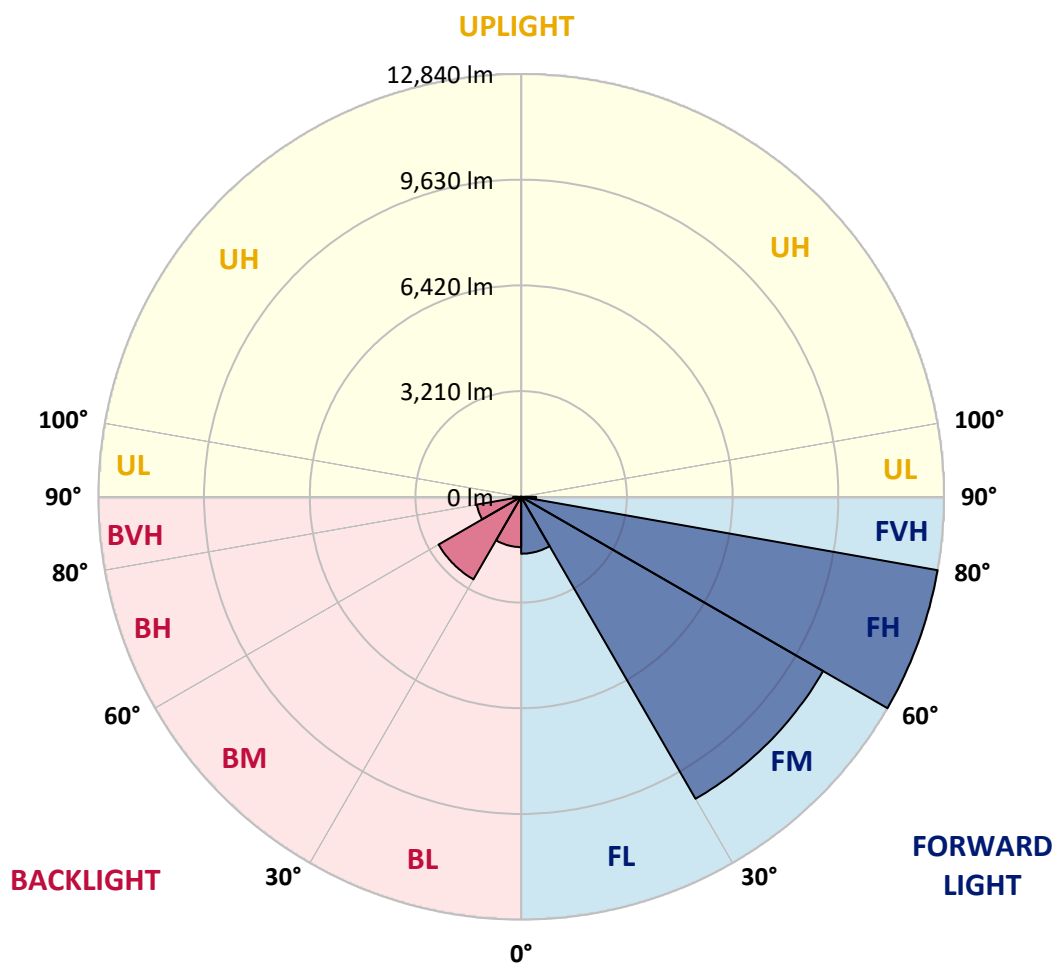
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1728.6  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 10587.0 | 33.5      |                         |      |         |
| FH   | (60°-80°)   | 12839.5 | 40.6      |                         |      | G5      |
| FVH  | (80°-90°)   | 450.3   | 1.4       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1527.0  | 4.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2895.9  | 9.2       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1365.3  | 4.3       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 246.3   | 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°    | 4775.5  | 4775.5  | 4775.5  | 4775.5  | 4775.5  | 4775.5  | 4775.5  | 4775.5  | 4775.5  | 4775.5  | 4775.5  |
| 2.5°  | 4587.1  | 4596.2  | 4585.5  | 4599.2  | 4622.0  | 4646.3  | 4663.0  | 4687.3  | 4714.7  | 4752.7  | 4761.8  |
| 5°    | 4371.3  | 4385.0  | 4385.0  | 4409.3  | 4453.3  | 4492.9  | 4529.3  | 4568.8  | 4626.6  | 4691.9  | 4717.7  |
| 7.5°  | 4134.3  | 4141.9  | 4155.5  | 4192.0  | 4255.8  | 4312.0  | 4363.7  | 4427.5  | 4506.5  | 4593.1  | 4638.7  |
| 10°   | 3848.6  | 3859.3  | 3880.5  | 3932.2  | 4018.8  | 4096.3  | 4170.7  | 4258.9  | 4359.1  | 4467.0  | 4524.8  |
| 12.5° | 3646.5  | 3643.5  | 3652.6  | 3690.6  | 3766.6  | 3860.8  | 3968.7  | 4081.1  | 4204.2  | 4330.3  | 4400.2  |
| 15°   | 3578.2  | 3561.5  | 3526.5  | 3517.4  | 3558.4  | 3652.6  | 3777.2  | 3915.5  | 4062.9  | 4214.8  | 4301.4  |
| 17.5° | 3620.7  | 3591.9  | 3496.1  | 3426.2  | 3420.2  | 3491.6  | 3623.8  | 3778.7  | 3948.9  | 4134.3  | 4242.2  |
| 20°   | 3888.1  | 3819.8  | 3584.3  | 3421.7  | 3365.5  | 3400.4  | 3515.9  | 3680.0  | 3880.5  | 4126.7  | 4264.9  |
| 22.5° | 4527.8  | 4427.5  | 3927.6  | 3625.3  | 3435.4  | 3392.8  | 3479.4  | 3654.1  | 3888.1  | 4220.9  | 4397.1  |
| 25°   | 5459.2  | 5316.4  | 4517.2  | 4132.8  | 3740.8  | 3514.4  | 3534.1  | 3713.4  | 3996.0  | 4439.7  | 4652.4  |
| 27.5° | 6194.6  | 6101.9  | 5287.5  | 4848.4  | 4296.8  | 3842.6  | 3711.9  | 3862.3  | 4216.3  | 4798.2  | 5015.5  |
| 30°   | 6632.2  | 6575.9  | 6111.0  | 5659.7  | 5006.4  | 4365.2  | 4052.2  | 4141.9  | 4561.2  | 5295.1  | 5474.4  |
| 32.5° | 7139.6  | 7106.2  | 6878.3  | 6463.5  | 5772.2  | 5052.0  | 4591.6  | 4559.7  | 5023.1  | 5892.2  | 5974.3  |
| 35°   | 7665.3  | 7654.7  | 7521.0  | 7223.2  | 6594.2  | 5957.5  | 5307.2  | 5091.5  | 5526.0  | 6512.1  | 6460.5  |
| 37.5° | 8154.6  | 8136.4  | 8058.9  | 7885.7  | 7454.2  | 6930.0  | 6036.6  | 5637.0  | 6068.5  | 7104.7  | 6875.3  |
| 40°   | 9055.6  | 8912.8  | 8646.9  | 8516.2  | 8323.2  | 7748.9  | 6615.4  | 6146.0  | 6630.6  | 7669.9  | 7233.8  |
| 42.5° | 10154.1 | 9921.7  | 9426.3  | 9247.0  | 9219.7  | 8394.7  | 7010.5  | 6639.8  | 7197.4  | 8230.6  | 7586.3  |
| 45°   | 11018.7 | 10799.9 | 10372.9 | 10146.5 | 10246.8 | 8979.6  | 7407.1  | 7167.0  | 7780.8  | 8818.6  | 7949.5  |
| 47.5° | 11940.9 | 11597.5 | 11032.3 | 11100.7 | 11319.5 | 9532.7  | 7811.2  | 7733.7  | 8420.5  | 9476.5  | 8400.7  |
| 50°   | 11974.4 | 11711.5 | 11463.8 | 11872.6 | 12212.9 | 10041.7 | 8317.2  | 8327.8  | 9203.0  | 10304.5 | 9000.9  |
| 52.5° | 11280.0 | 11223.8 | 11617.3 | 12260.0 | 12750.8 | 10444.3 | 8893.0  | 8941.6  | 10204.3 | 11255.7 | 9660.3  |
| 55°   | 11036.9 | 10973.1 | 11427.4 | 12124.8 | 12823.7 | 10777.1 | 9517.5  | 9605.6  | 11415.2 | 12258.5 | 10303.0 |
| 57.5° | 11629.5 | 11488.1 | 11518.5 | 12061.0 | 12645.9 | 11141.7 | 10198.2 | 10375.9 | 12731.0 | 13135.2 | 10716.3 |
| 60°   | 13285.6 | 12983.2 | 12408.9 | 12395.2 | 12741.6 | 11688.7 | 10985.2 | 11202.5 | 14098.5 | 13554.5 | 10555.2 |
| 62.5° | 15608.7 | 15306.4 | 14230.7 | 13530.2 | 13478.6 | 12591.2 | 11951.6 | 12009.3 | 14888.6 | 12986.3 | 9572.2  |
| 65°   | 18123.3 | 17852.9 | 16651.1 | 15661.9 | 15184.8 | 14086.3 | 13074.4 | 12369.4 | 14630.3 | 11422.8 | 7852.2  |
| 67.5° | 21175.8 | 20885.6 | 19852.4 | 18939.3 | 18480.4 | 16499.1 | 13863.0 | 12024.5 | 12990.8 | 8849.0  | 5644.6  |
| 70°   | 23310.6 | 23014.3 | 22607.1 | 23347.0 | 24469.9 | 19980.0 | 13964.8 | 10622.1 | 9702.9  | 5881.6  | 3397.4  |
| 72.5° | 20525.5 | 20387.2 | 21130.2 | 24246.5 | 28923.2 | 22092.0 | 12623.1 | 7733.7  | 5635.4  | 3122.4  | 1966.1  |
| 73°   | 18805.6 | 18775.2 | 20042.3 | 23616.0 | 28955.1 | 21766.9 | 12035.1 | 7188.3  | 4833.2  | 2762.3  | 1797.4  |
| 75°   | 8491.9  | 8736.5  | 11514.0 | 18038.3 | 25156.6 | 17936.5 | 8470.6  | 4123.6  | 2730.4  | 1908.4  | 1356.8  |
| 77.5° | 2040.5  | 2125.6  | 3602.5  | 8566.3  | 15886.8 | 10688.9 | 3838.0  | 2039.0  | 1745.8  | 1347.7  | 990.6   |
| 80°   | 869.1   | 898.0   | 1387.2  | 3164.9  | 7480.0  | 4304.4  | 1768.6  | 1365.9  | 1207.9  | 940.5   | 694.4   |
| 82.5° | 483.2   | 513.6   | 787.0   | 1435.8  | 3019.0  | 1467.7  | 1078.8  | 951.1   | 794.6   | 566.7   | 451.3   |
| 85°   | 273.5   | 290.2   | 460.4   | 802.2   | 1279.3  | 589.5   | 645.7   | 632.1   | 448.2   | 291.7   | 221.8   |
| 87.5° | 129.1   | 139.8   | 221.8   | 372.3   | 501.4   | 230.9   | 328.2   | 361.6   | 281.1   | 177.8   | 115.5   |
| 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°    | 4775.5 | 4775.5 | 4775.5 | 4775.5 | 4775.5 | 4775.5 | 4775.5 | 4775.5 | 4775.5 | 4775.5 |
| 2.5°  | 4772.4 | 4799.8 | 4831.7 | 4848.4 | 4863.6 | 4881.8 | 4900.0 | 4900.0 | 4903.1 | 4904.6 |
| 5°    | 4739.0 | 4795.2 | 4845.4 | 4866.6 | 4871.2 | 4871.2 | 4866.6 | 4842.3 | 4821.0 | 4830.2 |
| 7.5°  | 4669.1 | 4751.1 | 4793.7 | 4786.1 | 4728.4 | 4661.5 | 4605.3 | 4536.9 | 4502.0 | 4495.9 |
| 10°   | 4568.8 | 4663.0 | 4670.6 | 4594.7 | 4451.8 | 4309.0 | 4190.5 | 4075.0 | 4020.3 | 4006.6 |
| 12.5° | 4457.9 | 4544.5 | 4495.9 | 4339.4 | 4110.0 | 3901.8 | 3751.4 | 3634.4 | 3582.7 | 3569.1 |
| 15°   | 4368.3 | 4427.5 | 4304.4 | 4058.3 | 3769.6 | 3549.3 | 3424.7 | 3338.1 | 3301.6 | 3291.0 |
| 17.5° | 4321.2 | 4333.3 | 4108.4 | 3775.7 | 3468.8 | 3284.9 | 3207.4 | 3166.4 | 3152.7 | 3145.1 |
| 20°   | 4344.0 | 4258.9 | 3921.6 | 3512.8 | 3222.6 | 3093.5 | 3075.3 | 3064.6 | 3061.6 | 3057.0 |
| 22.5° | 4457.9 | 4236.1 | 3749.9 | 3263.7 | 3006.9 | 2950.7 | 2965.9 | 2964.3 | 2961.3 | 2958.3 |
| 25°   | 4661.5 | 4255.8 | 3582.7 | 3026.6 | 2826.1 | 2813.9 | 2841.3 | 2841.3 | 2829.1 | 2829.1 |
| 27.5° | 4930.4 | 4296.8 | 3395.8 | 2801.8 | 2662.0 | 2663.5 | 2684.8 | 2678.7 | 2665.0 | 2655.9 |
| 30°   | 5258.6 | 4322.7 | 3177.1 | 2599.7 | 2508.5 | 2502.4 | 2508.5 | 2482.7 | 2441.7 | 2438.6 |
| 32.5° | 5594.4 | 4290.8 | 2923.3 | 2420.4 | 2345.9 | 2332.3 | 2327.7 | 2291.2 | 2244.1 | 2230.5 |
| 35°   | 5898.3 | 4173.8 | 2665.0 | 2277.6 | 2191.0 | 2160.6 | 2181.9 | 2169.7 | 2127.2 | 2116.5 |
| 37.5° | 6120.1 | 3956.5 | 2432.6 | 2151.5 | 2080.1 | 2072.5 | 2086.1 | 2090.7 | 2040.5 | 2029.9 |
| 40°   | 6269.0 | 3661.7 | 2233.5 | 2045.1 | 2058.8 | 2029.9 | 1984.3 | 1952.4 | 1937.2 | 1932.7 |
| 42.5° | 6389.1 | 3354.8 | 2066.4 | 1995.0 | 2063.3 | 1979.8 | 1881.0 | 1829.4 | 1856.7 | 1868.9 |
| 45°   | 6527.3 | 3055.5 | 1926.6 | 1932.7 | 2040.5 | 1922.0 | 1809.6 | 1759.5 | 1770.1 | 1773.1 |
| 47.5° | 6717.2 | 2690.8 | 1776.2 | 1832.4 | 1964.6 | 1882.5 | 1765.5 | 1694.1 | 1644.0 | 1621.2 |
| 50°   | 6980.1 | 2259.3 | 1619.7 | 1720.0 | 1890.1 | 1853.7 | 1697.2 | 1621.2 | 1528.5 | 1507.2 |
| 52.5° | 7162.4 | 1856.7 | 1490.5 | 1625.8 | 1823.3 | 1795.9 | 1642.5 | 1543.7 | 1446.5 | 1428.2 |
| 55°   | 7063.7 | 1542.2 | 1378.1 | 1520.9 | 1735.1 | 1724.5 | 1596.9 | 1464.7 | 1388.7 | 1373.5 |
| 57.5° | 6569.9 | 1343.1 | 1291.5 | 1422.2 | 1627.3 | 1663.7 | 1536.1 | 1397.8 | 1343.1 | 1332.5 |
| 60°   | 5627.8 | 1218.6 | 1236.8 | 1355.3 | 1539.1 | 1603.0 | 1475.3 | 1361.4 | 1324.9 | 1317.3 |
| 62.5° | 4366.7 | 1135.0 | 1195.8 | 1306.7 | 1470.8 | 1560.4 | 1441.9 | 1356.8 | 1343.1 | 1334.0 |
| 65°   | 3128.4 | 1068.1 | 1151.7 | 1258.1 | 1408.5 | 1520.9 | 1429.8 | 1350.7 | 1353.8 | 1346.2 |
| 67.5° | 2125.6 | 1008.9 | 1098.5 | 1203.4 | 1347.7 | 1486.0 | 1413.0 | 1329.5 | 1367.5 | 1358.3 |
| 70°   | 1487.5 | 951.1  | 1036.2 | 1133.5 | 1271.7 | 1437.3 | 1382.6 | 1297.6 | 1294.5 | 1258.1 |
| 72.5° | 1160.8 | 875.2  | 951.1  | 1036.2 | 1174.5 | 1369.0 | 1321.9 | 1226.2 | 1176.0 | 1138.0 |
| 73°   | 1107.6 | 856.9  | 929.9  | 1015.0 | 1153.2 | 1352.3 | 1305.2 | 1206.4 | 1150.2 | 1115.2 |
| 75°   | 916.2  | 777.9  | 844.8  | 920.8  | 1062.1 | 1273.3 | 1223.1 | 1116.8 | 1045.3 | 1024.1 |
| 77.5° | 720.2  | 665.5  | 729.3  | 797.7  | 935.9  | 1157.8 | 1101.6 | 999.8  | 960.3  | 942.0  |
| 80°   | 533.3  | 551.5  | 607.8  | 668.5  | 811.4  | 1034.7 | 984.6  | 882.8  | 1059.0 | 1015.0 |
| 82.5° | 375.3  | 417.8  | 469.5  | 524.2  | 680.7  | 914.7  | 853.9  | 749.1  | 774.9  | 644.2  |
| 85°   | 221.8  | 273.5  | 322.1  | 369.2  | 490.8  | 758.2  | 705.0  | 597.1  | 489.2  | 466.5  |
| 87.5° | 129.1  | 151.9  | 165.6  | 214.2  | 337.3  | 571.3  | 496.8  | 442.1  | 253.7  | 171.7  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)