

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: P268245

Luminaire Tested: **GAN-AF-02-LED-U-5NQ-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268245  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-02-LED-U-5NQ-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10915 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

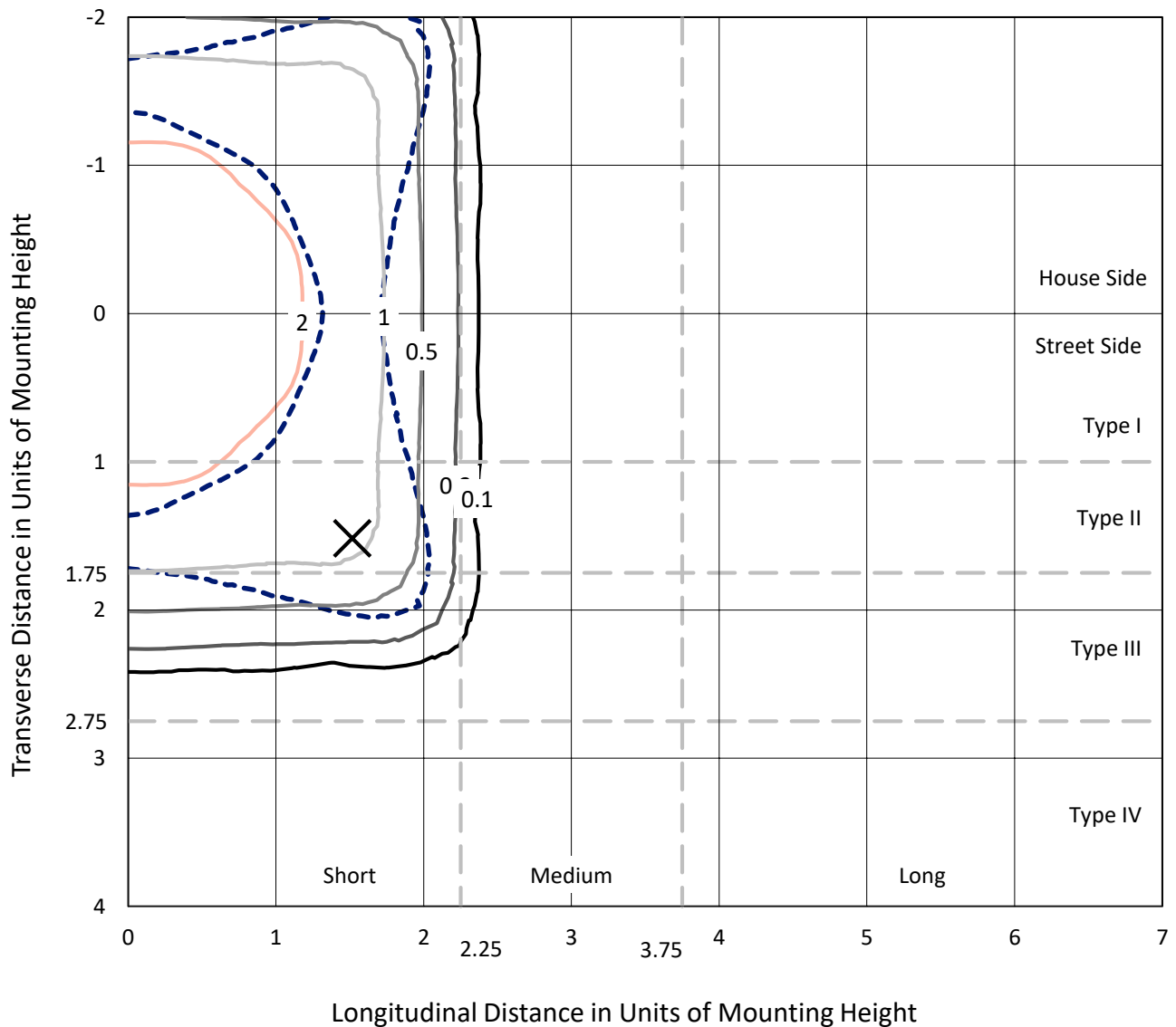
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

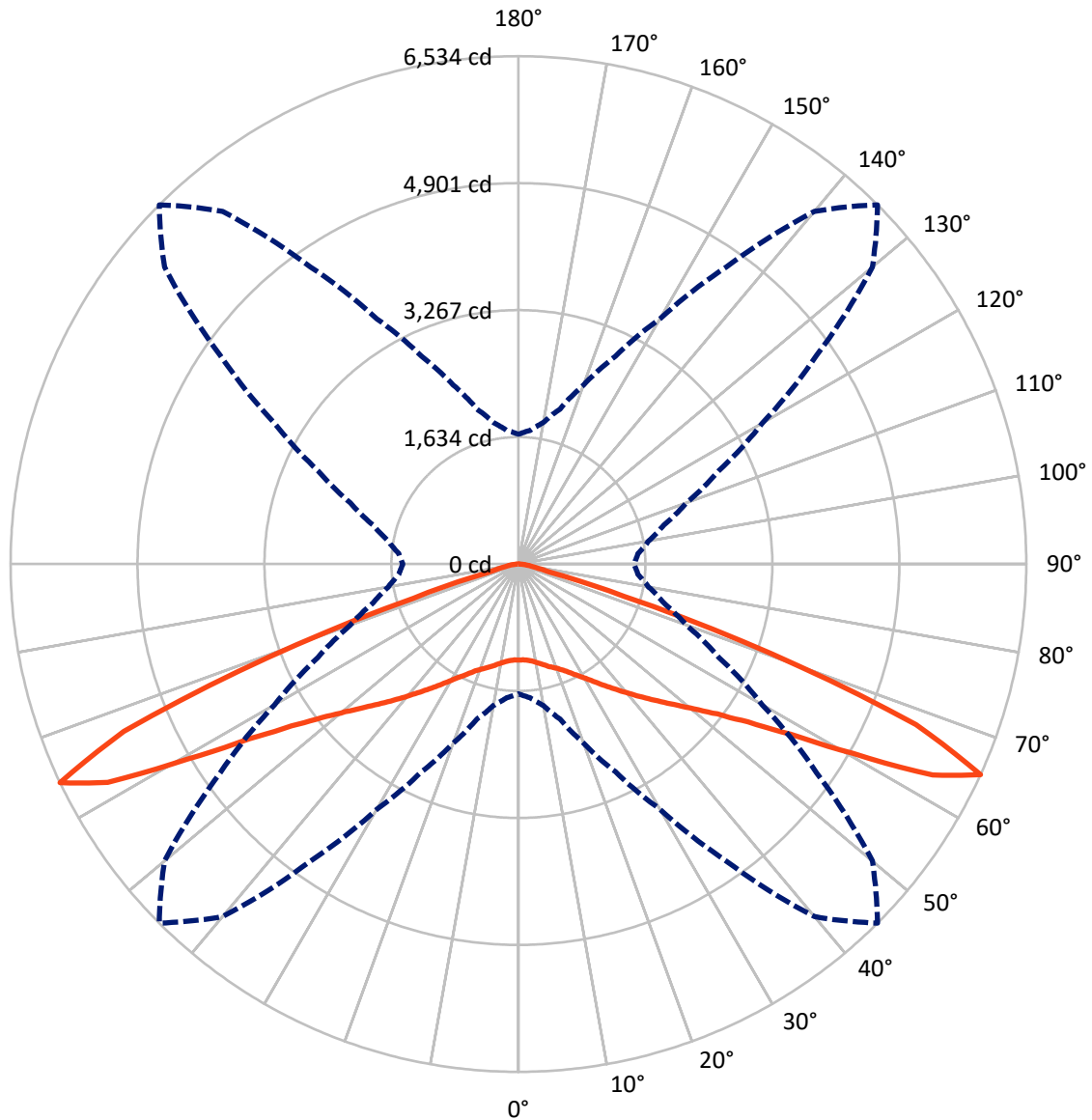
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.1 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5457.5   | 0.0    | 5457.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5457.5   | 0.0    | 5457.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 10915.0  | 0.0    | 10915.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 120.4   | 1.1       |
| 10°-20°   | 386.1   | 3.5       |
| 20°-30°   | 721.9   | 6.6       |
| 30°-40°   | 1220.9  | 11.2      |
| 40°-50°   | 1996.3  | 18.3      |
| 50°-60°   | 3174.4  | 29.1      |
| 60°-70°   | 2869.5  | 26.3      |
| 70°-80°   | 363.1   | 3.3       |
| 80°-90°   | 62.5    | 0.6       |
| 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°    | 10915.0 | 100.0     |
| 0°-180°   | 10915.0 | 100.0     |



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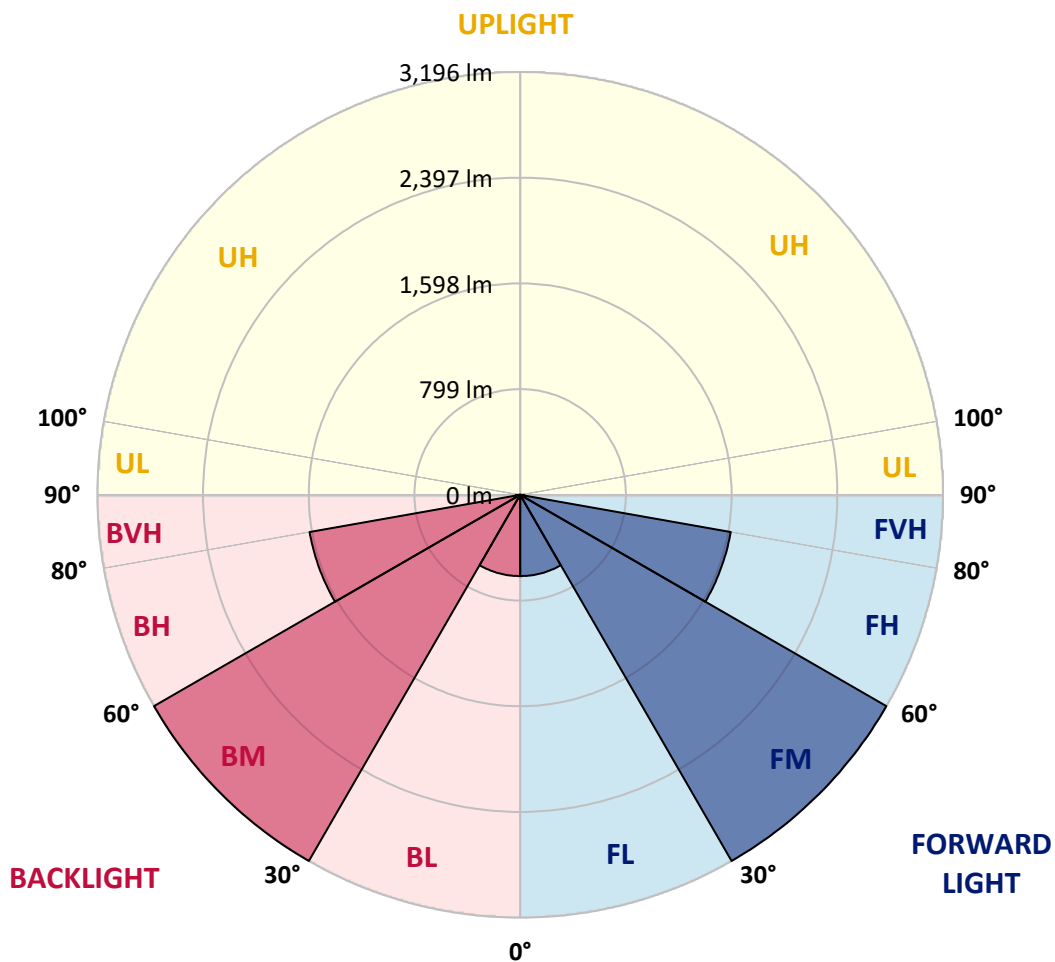
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 614.2  | 5.6       |                         |      |         |
| FM (30°-60°)   | 3195.8 | 29.3      |                         |      |         |
| FH (60°-80°)   | 1616.3 | 14.8      |                         |      | G1/1800 |
| FVH (80°-90°)  | 31.2   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 614.2  | 5.6       | B2/1000                 |      |         |
| BM (30°-60°)   | 3195.8 | 29.3      | B3/5000                 |      |         |
| BH (60°-80°)   | 1616.3 | 14.8      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 31.2   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1235.0 | 1235.0 | 1235.0 | 1235.0 | 1235.0 | 1235.0 | 1235.0 | 1235.0 | 1235.0 | 1235.0 | 1235.0 |
| 2.5°  | 1236.1 | 1237.1 | 1238.1 | 1237.1 | 1238.1 | 1236.5 | 1235.6 | 1237.1 | 1235.6 | 1234.0 | 1235.0 |
| 5°    | 1246.8 | 1247.2 | 1247.2 | 1245.8 | 1247.2 | 1246.3 | 1244.7 | 1246.8 | 1245.3 | 1243.8 | 1244.7 |
| 7.5°  | 1264.8 | 1266.7 | 1265.3 | 1263.6 | 1264.8 | 1263.6 | 1262.7 | 1263.1 | 1262.7 | 1261.1 | 1261.6 |
| 10°   | 1288.7 | 1290.2 | 1289.2 | 1288.7 | 1289.7 | 1289.2 | 1288.2 | 1287.7 | 1288.2 | 1286.7 | 1286.7 |
| 12.5° | 1317.9 | 1317.4 | 1316.8 | 1317.4 | 1318.9 | 1318.9 | 1318.4 | 1318.9 | 1319.9 | 1320.4 | 1319.4 |
| 15°   | 1346.5 | 1347.5 | 1347.5 | 1347.5 | 1350.6 | 1353.1 | 1354.6 | 1355.7 | 1357.7 | 1358.2 | 1356.3 |
| 17.5° | 1382.2 | 1382.2 | 1381.8 | 1382.2 | 1385.4 | 1389.4 | 1390.9 | 1393.0 | 1395.1 | 1396.5 | 1394.0 |
| 20°   | 1422.1 | 1423.2 | 1423.2 | 1424.3 | 1428.2 | 1432.8 | 1432.8 | 1434.0 | 1432.8 | 1434.0 | 1432.3 |
| 22.5° | 1470.7 | 1473.8 | 1473.8 | 1474.3 | 1478.4 | 1484.0 | 1482.5 | 1484.0 | 1481.5 | 1483.6 | 1481.5 |
| 25°   | 1534.0 | 1538.6 | 1537.7 | 1537.7 | 1540.8 | 1544.4 | 1544.8 | 1547.9 | 1547.4 | 1549.9 | 1548.4 |
| 27.5° | 1605.7 | 1612.7 | 1614.9 | 1614.3 | 1616.4 | 1620.0 | 1621.0 | 1624.6 | 1622.5 | 1624.6 | 1623.5 |
| 30°   | 1691.6 | 1694.7 | 1698.7 | 1700.2 | 1702.7 | 1706.4 | 1706.4 | 1706.9 | 1704.4 | 1707.4 | 1708.9 |
| 32.5° | 1780.5 | 1786.1 | 1790.2 | 1799.5 | 1803.9 | 1806.5 | 1806.0 | 1807.1 | 1804.5 | 1808.6 | 1811.7 |
| 35°   | 1898.1 | 1902.2 | 1908.8 | 1915.9 | 1922.2 | 1921.6 | 1920.0 | 1920.5 | 1920.5 | 1924.1 | 1927.3 |
| 37.5° | 2039.6 | 2040.7 | 2049.4 | 2059.6 | 2062.7 | 2059.6 | 2050.4 | 2048.3 | 2043.7 | 2048.3 | 2053.4 |
| 40°   | 2189.4 | 2193.0 | 2210.4 | 2217.0 | 2218.5 | 2213.0 | 2199.7 | 2192.0 | 2181.8 | 2187.5 | 2194.6 |
| 42.5° | 2346.5 | 2353.5 | 2369.4 | 2381.1 | 2386.3 | 2382.7 | 2364.2 | 2352.5 | 2339.2 | 2342.3 | 2349.4 |
| 45°   | 2520.1 | 2528.9 | 2551.4 | 2562.7 | 2572.3 | 2566.6 | 2548.9 | 2531.0 | 2510.0 | 2511.5 | 2522.7 |
| 47.5° | 2714.5 | 2723.1 | 2752.2 | 2771.2 | 2776.3 | 2775.3 | 2755.3 | 2730.8 | 2702.2 | 2701.2 | 2710.8 |
| 50°   | 2932.2 | 2941.0 | 2977.3 | 3006.4 | 3021.2 | 3019.7 | 2996.0 | 2961.4 | 2926.6 | 2927.0 | 2939.3 |
| 52.5° | 3144.8 | 3155.6 | 3193.5 | 3243.5 | 3272.6 | 3293.6 | 3279.4 | 3246.6 | 3204.2 | 3205.2 | 3216.4 |
| 55°   | 3344.2 | 3362.1 | 3405.6 | 3473.6 | 3527.7 | 3586.6 | 3603.5 | 3602.5 | 3576.8 | 3584.0 | 3595.2 |
| 57.5° | 3440.9 | 3467.5 | 3534.4 | 3641.8 | 3752.2 | 3871.8 | 3973.1 | 4048.7 | 4080.9 | 4129.4 | 4118.2 |
| 60°   | 3257.9 | 3300.3 | 3398.9 | 3556.8 | 3775.1 | 4024.6 | 4292.0 | 4553.1 | 4776.1 | 4944.4 | 4847.7 |
| 62.5° | 2667.3 | 2722.7 | 2842.2 | 3044.6 | 3374.9 | 3774.1 | 4285.9 | 4903.4 | 5576.0 | 5982.1 | 5692.1 |
| 65°   | 1669.1 | 1726.4 | 1848.0 | 2064.8 | 2451.1 | 2947.6 | 3641.8 | 4665.2 | 5922.2 | 6534.1 | 5944.2 |
| 67.5° | 650.7  | 682.0  | 747.8  | 886.4  | 1176.8 | 1618.4 | 2315.2 | 3476.6 | 4980.1 | 5516.3 | 4887.5 |
| 70°   | 326.2  | 329.1  | 341.4  | 367.0  | 429.4  | 557.7  | 848.5  | 1611.7 | 2856.0 | 3449.5 | 2753.2 |
| 72.5° | 235.6  | 236.2  | 242.4  | 253.5  | 273.4  | 302.1  | 357.3  | 493.3  | 928.8  | 1419.6 | 870.5  |
| 75°   | 180.5  | 182.4  | 186.0  | 192.1  | 202.9  | 217.3  | 237.2  | 284.3  | 352.2  | 408.5  | 343.5  |
| 77.5° | 139.1  | 143.1  | 145.6  | 151.4  | 157.9  | 167.7  | 173.4  | 191.2  | 222.4  | 234.1  | 230.5  |
| 80°   | 105.8  | 109.5  | 115.1  | 119.7  | 124.2  | 128.8  | 126.8  | 134.9  | 151.4  | 161.1  | 155.9  |
| 82.5° | 67.6   | 71.5   | 87.9   | 92.0   | 94.1   | 97.1   | 93.6   | 94.1   | 101.1  | 107.3  | 101.1  |
| 85°   | 43.5   | 46.1   | 55.8   | 60.8   | 61.4   | 63.4   | 61.9   | 58.3   | 58.3   | 53.2   | 59.7   |
| 87.5° | 19.9   | 20.4   | 25.1   | 29.6   | 30.7   | 27.6   | 27.0   | 26.1   | 21.0   | 19.9   | 21.5   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1235.0 | 1235.0 | 1235.0 | 1235.0 | 1235.0 | 1235.0 | 1235.0 | 1235.0 |
| 2.5°  | 1234.5 | 1235.6 | 1236.1 | 1237.7 | 1238.1 | 1238.1 | 1238.7 | 1239.7 |
| 5°    | 1244.2 | 1245.8 | 1246.3 | 1248.4 | 1248.9 | 1248.4 | 1249.4 | 1249.9 |
| 7.5°  | 1261.6 | 1264.2 | 1265.3 | 1267.2 | 1265.7 | 1267.8 | 1268.2 | 1268.2 |
| 10°   | 1287.2 | 1289.7 | 1290.2 | 1292.3 | 1291.3 | 1292.3 | 1292.3 | 1291.3 |
| 12.5° | 1320.9 | 1321.4 | 1319.9 | 1321.4 | 1319.4 | 1320.4 | 1318.9 | 1317.9 |
| 15°   | 1358.2 | 1356.7 | 1353.1 | 1353.1 | 1350.1 | 1350.6 | 1350.1 | 1349.6 |
| 17.5° | 1394.4 | 1391.5 | 1388.9 | 1387.9 | 1385.4 | 1384.8 | 1383.3 | 1383.3 |
| 20°   | 1434.5 | 1432.8 | 1431.3 | 1429.4 | 1426.8 | 1424.3 | 1423.6 | 1424.7 |
| 22.5° | 1482.5 | 1481.9 | 1481.9 | 1480.9 | 1477.4 | 1474.7 | 1473.3 | 1473.3 |
| 25°   | 1546.9 | 1542.3 | 1542.3 | 1541.9 | 1540.2 | 1538.6 | 1535.7 | 1537.2 |
| 27.5° | 1619.5 | 1616.9 | 1618.9 | 1618.4 | 1616.9 | 1616.9 | 1614.9 | 1614.9 |
| 30°   | 1708.9 | 1707.9 | 1710.9 | 1708.3 | 1703.2 | 1702.7 | 1700.8 | 1698.2 |
| 32.5° | 1812.2 | 1811.2 | 1815.7 | 1812.7 | 1804.5 | 1799.9 | 1795.8 | 1793.7 |
| 35°   | 1927.3 | 1927.8 | 1933.3 | 1931.3 | 1922.2 | 1919.0 | 1911.9 | 1910.9 |
| 37.5° | 2052.9 | 2061.2 | 2070.9 | 2072.8 | 2065.3 | 2063.1 | 2055.5 | 2051.4 |
| 40°   | 2200.7 | 2211.4 | 2226.3 | 2229.9 | 2221.7 | 2220.2 | 2209.4 | 2203.7 |
| 42.5° | 2358.1 | 2376.6 | 2394.9 | 2398.0 | 2389.9 | 2381.6 | 2371.4 | 2367.4 |
| 45°   | 2533.9 | 2555.9 | 2580.0 | 2586.1 | 2573.9 | 2564.1 | 2550.8 | 2550.8 |
| 47.5° | 2731.2 | 2759.0 | 2786.1 | 2802.9 | 2791.7 | 2781.4 | 2765.5 | 2755.3 |
| 50°   | 2964.3 | 3002.2 | 3037.4 | 3054.9 | 3037.0 | 3017.5 | 2990.0 | 2980.8 |
| 52.5° | 3256.9 | 3297.7 | 3328.4 | 3319.1 | 3291.6 | 3264.5 | 3234.3 | 3222.0 |
| 55°   | 3630.1 | 3643.7 | 3643.7 | 3609.0 | 3553.9 | 3508.3 | 3460.8 | 3444.9 |
| 57.5° | 4096.7 | 4043.5 | 3961.7 | 3858.0 | 3727.6 | 3614.2 | 3537.4 | 3501.1 |
| 60°   | 4645.2 | 4389.6 | 4100.9 | 3817.1 | 3584.0 | 3391.8 | 3277.7 | 3225.6 |
| 62.5° | 5010.7 | 4342.0 | 3763.4 | 3307.9 | 2972.6 | 2741.0 | 2583.5 | 2522.3 |
| 65°   | 4683.0 | 3621.2 | 2846.3 | 2301.4 | 1935.8 | 1700.2 | 1544.4 | 1487.1 |
| 67.5° | 3430.1 | 2269.2 | 1515.7 | 1086.3 | 795.9  | 634.9  | 571.1  | 544.5  |
| 70°   | 1539.8 | 799.0  | 489.8  | 382.4  | 329.7  | 302.5  | 291.0  | 286.7  |
| 72.5° | 464.2  | 335.8  | 283.1  | 255.6  | 234.6  | 221.3  | 211.6  | 210.7  |
| 75°   | 280.1  | 233.1  | 207.0  | 190.7  | 177.3  | 166.6  | 161.5  | 160.0  |
| 77.5° | 195.8  | 171.2  | 159.0  | 147.2  | 137.0  | 128.8  | 124.2  | 120.6  |
| 80°   | 137.5  | 125.8  | 120.2  | 113.5  | 106.9  | 99.2   | 92.5   | 89.4   |
| 82.5° | 92.0   | 89.4   | 89.4   | 85.3   | 79.8   | 72.7   | 59.3   | 56.2   |
| 85°   | 59.3   | 58.7   | 59.7   | 58.3   | 54.2   | 46.5   | 38.4   | 36.3   |
| 87.5° | 27.6   | 28.0   | 31.3   | 30.7   | 29.6   | 24.6   | 19.5   | 18.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)