

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: P191651

Luminaire Tested: **GAN-AF-03-LED-U-5NQ-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191651  
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-03-LED-U-5NQ-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 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: 18746 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2

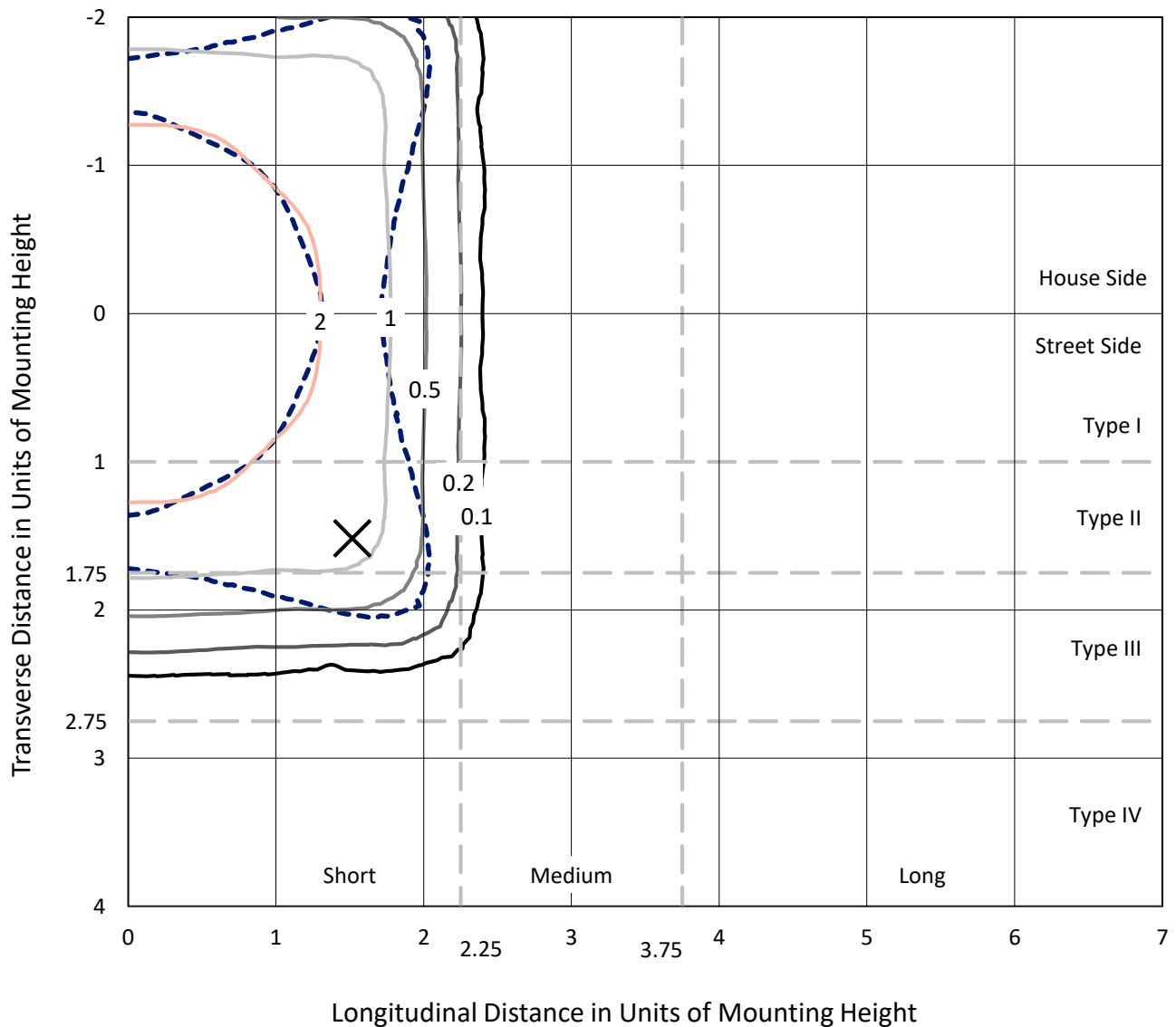
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

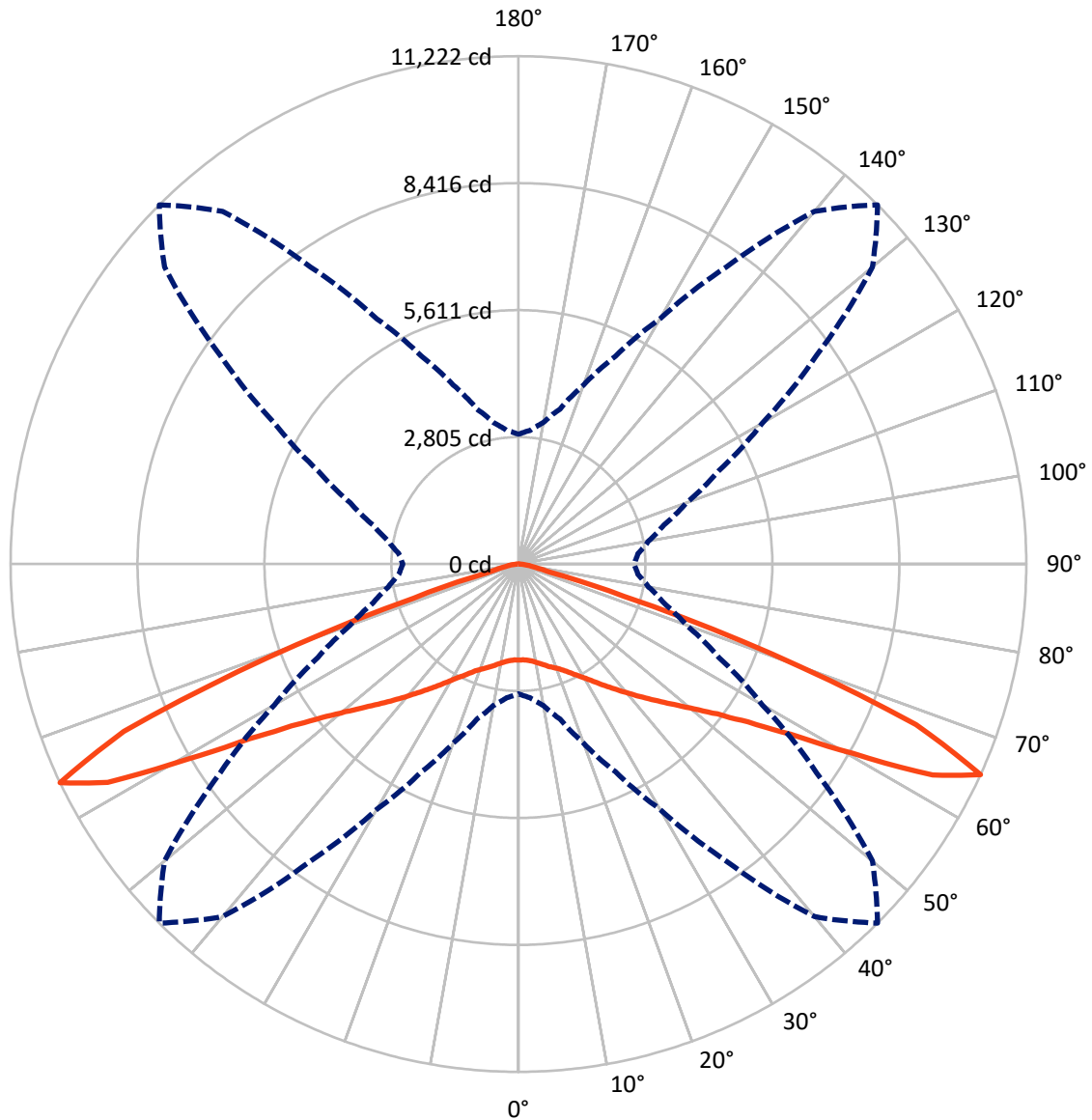
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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    | 9373.0   | 0.0    | 9373.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 9373.0   | 0.0    | 9373.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 18746.0  | 0.0    | 18746.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 206.7   | 1.1       |
| 10°-20°   | 663.1   | 3.5       |
| 20°-30°   | 1239.8  | 6.6       |
| 30°-40°   | 2096.8  | 11.2      |
| 40°-50°   | 3428.5  | 18.3      |
| 50°-60°   | 5451.9  | 29.1      |
| 60°-70°   | 4928.2  | 26.3      |
| 70°-80°   | 623.7   | 3.3       |
| 80°-90°   | 107.3   | 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°    | 18746.0 | 100.0     |
| 0°-180°   | 18746.0 | 100.0     |



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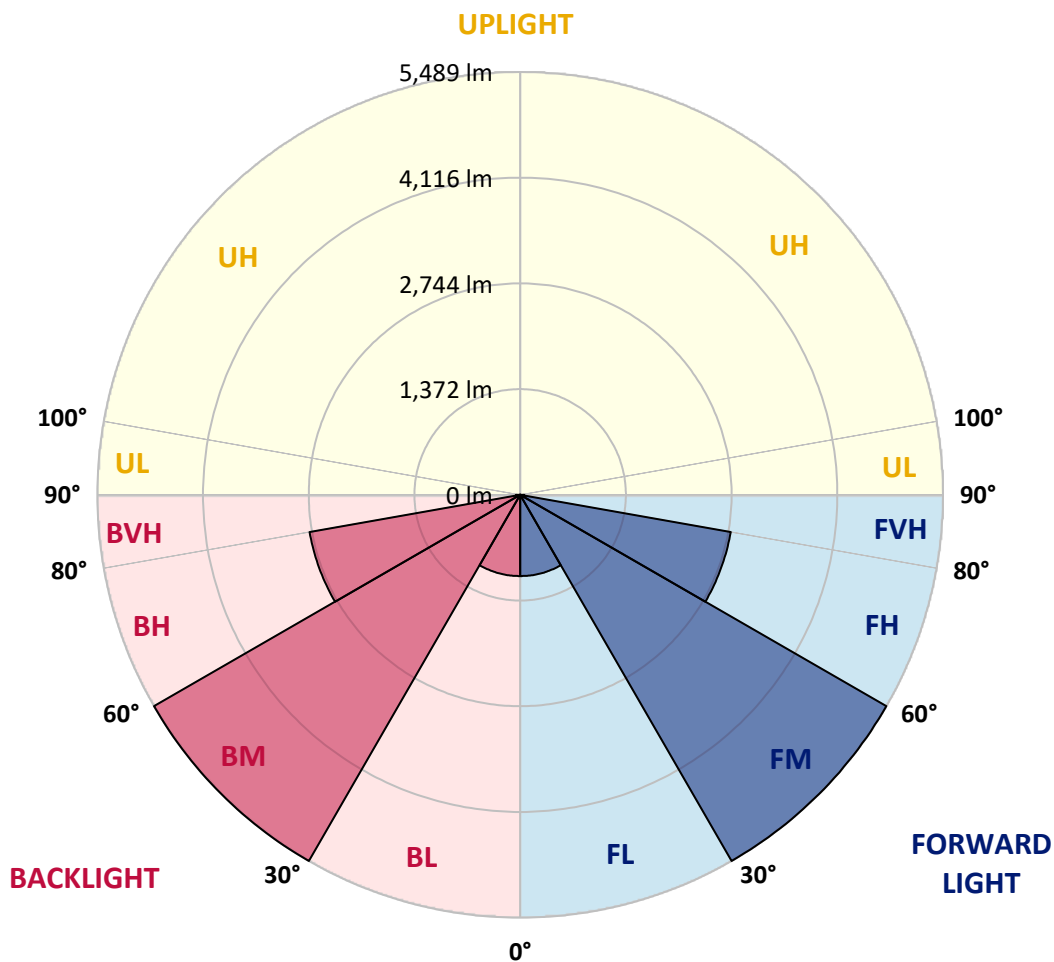
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1054.8 | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 5488.6 | 29.3      |                         |      |         |
| FH   | (60°-80°)   | 2775.9 | 14.8      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 53.6   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1054.8 | 5.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 5488.6 | 29.3      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 2775.9 | 14.8      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 53.6   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°     | 45°     | 50°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 2121.1 | 2121.1 | 2121.1 | 2121.1 | 2121.1 | 2121.1 | 2121.1 | 2121.1 | 2121.1  | 2121.1  | 2121.1  |
| 2.5°  | 2122.9 | 2124.6 | 2126.4 | 2124.6 | 2126.4 | 2123.8 | 2122.0 | 2124.6 | 2122.0  | 2119.4  | 2121.1  |
| 5°    | 2141.3 | 2142.2 | 2142.2 | 2139.6 | 2142.2 | 2140.4 | 2137.8 | 2141.3 | 2138.7  | 2136.0  | 2137.8  |
| 7.5°  | 2172.0 | 2175.6 | 2172.9 | 2170.3 | 2172.0 | 2170.3 | 2168.5 | 2169.4 | 2168.5  | 2165.9  | 2166.8  |
| 10°   | 2213.3 | 2215.9 | 2214.2 | 2213.3 | 2215.1 | 2214.2 | 2212.4 | 2211.5 | 2212.4  | 2209.8  | 2209.8  |
| 12.5° | 2263.3 | 2262.5 | 2261.6 | 2262.5 | 2265.1 | 2265.1 | 2264.2 | 2265.1 | 2266.9  | 2267.7  | 2266.0  |
| 15°   | 2312.5 | 2314.3 | 2314.3 | 2314.3 | 2319.5 | 2323.9 | 2326.6 | 2328.3 | 2331.8  | 2332.7  | 2329.2  |
| 17.5° | 2374.0 | 2374.0 | 2373.1 | 2374.0 | 2379.2 | 2386.3 | 2388.9 | 2392.4 | 2395.9  | 2398.6  | 2394.2  |
| 20°   | 2442.4 | 2444.2 | 2444.2 | 2446.0 | 2453.0 | 2460.9 | 2460.9 | 2462.6 | 2460.9  | 2462.6  | 2460.0  |
| 22.5° | 2525.9 | 2531.1 | 2531.1 | 2532.0 | 2539.0 | 2548.7 | 2546.0 | 2548.7 | 2544.3  | 2547.8  | 2544.3  |
| 25°   | 2634.7 | 2642.6 | 2640.9 | 2640.9 | 2646.1 | 2652.3 | 2653.2 | 2658.4 | 2657.5  | 2661.9  | 2659.3  |
| 27.5° | 2757.6 | 2769.9 | 2773.4 | 2772.6 | 2776.1 | 2782.2 | 2784.0 | 2790.1 | 2786.6  | 2790.1  | 2788.4  |
| 30°   | 2905.1 | 2910.4 | 2917.4 | 2920.1 | 2924.4 | 2930.6 | 2930.6 | 2931.5 | 2927.1  | 2932.3  | 2935.0  |
| 32.5° | 3057.9 | 3067.5 | 3074.6 | 3090.4 | 3098.3 | 3102.7 | 3101.8 | 3103.5 | 3099.2  | 3106.2  | 3111.4  |
| 35°   | 3259.8 | 3266.8 | 3278.3 | 3290.5 | 3301.1 | 3300.2 | 3297.6 | 3298.4 | 3298.4  | 3304.6  | 3309.9  |
| 37.5° | 3503.0 | 3504.8 | 3519.7 | 3537.2 | 3542.5 | 3537.2 | 3521.4 | 3517.9 | 3510.0  | 3517.9  | 3526.7  |
| 40°   | 3760.2 | 3766.4 | 3796.2 | 3807.7 | 3810.3 | 3800.6 | 3777.8 | 3764.6 | 3747.1  | 3756.7  | 3769.0  |
| 42.5° | 4029.8 | 4042.1 | 4069.3 | 4089.5 | 4098.3 | 4092.1 | 4060.5 | 4040.3 | 4017.5  | 4022.8  | 4035.0  |
| 45°   | 4328.3 | 4343.2 | 4381.8 | 4401.1 | 4417.8 | 4408.2 | 4377.4 | 4346.7 | 4310.7  | 4313.4  | 4332.7  |
| 47.5° | 4661.9 | 4676.8 | 4726.9 | 4759.4 | 4768.1 | 4766.4 | 4732.1 | 4690.0 | 4640.8  | 4639.1  | 4655.8  |
| 50°   | 5035.9 | 5050.8 | 5113.2 | 5163.2 | 5188.7 | 5186.0 | 5145.6 | 5085.9 | 5026.2  | 5027.1  | 5048.2  |
| 52.5° | 5401.1 | 5419.6 | 5484.5 | 5570.6 | 5620.6 | 5656.6 | 5632.0 | 5575.8 | 5503.0  | 5504.7  | 5524.0  |
| 55°   | 5743.5 | 5774.3 | 5848.9 | 5965.6 | 6058.7 | 6159.7 | 6188.6 | 6186.9 | 6143.0  | 6155.3  | 6174.6  |
| 57.5° | 5909.5 | 5955.1 | 6070.1 | 6254.5 | 6444.1 | 6649.6 | 6823.4 | 6953.3 | 7008.7  | 7092.1  | 7072.7  |
| 60°   | 5595.2 | 5668.0 | 5837.5 | 6108.8 | 6483.6 | 6912.1 | 7371.2 | 7819.9 | 8202.7  | 8491.5  | 8325.6  |
| 62.5° | 4581.1 | 4675.9 | 4881.4 | 5229.1 | 5796.2 | 6481.9 | 7360.7 | 8421.3 | 9576.6  | 10273.7 | 9775.9  |
| 65°   | 2866.5 | 2964.8 | 3173.8 | 3546.0 | 4209.8 | 5062.2 | 6254.5 | 8012.1 | 10171.0 | 11221.9 | 10208.8 |
| 67.5° | 1117.6 | 1171.2 | 1284.4 | 1522.4 | 2021.0 | 2779.6 | 3976.2 | 5970.9 | 8553.0  | 9473.9  | 8394.1  |
| 70°   | 560.1  | 565.4  | 586.5  | 630.4  | 737.5  | 957.8  | 1457.4 | 2768.2 | 4905.1  | 5924.4  | 4728.6  |
| 72.5° | 404.7  | 405.6  | 416.1  | 435.5  | 469.7  | 518.9  | 613.7  | 847.2  | 1595.2  | 2438.1  | 1495.1  |
| 75°   | 309.9  | 313.4  | 319.6  | 330.1  | 348.5  | 373.1  | 407.4  | 488.1  | 604.9   | 701.5   | 590.0   |
| 77.5° | 238.8  | 245.8  | 250.2  | 259.9  | 271.3  | 288.0  | 297.6  | 328.4  | 381.9   | 402.1   | 396.0   |
| 80°   | 181.7  | 187.9  | 197.5  | 205.4  | 213.3  | 221.2  | 217.7  | 231.8  | 259.9   | 276.6   | 267.8   |
| 82.5° | 115.9  | 122.9  | 151.0  | 158.0  | 161.5  | 166.8  | 160.7  | 161.5  | 173.8   | 184.4   | 173.8   |
| 85°   | 74.6   | 79.0   | 95.7   | 104.5  | 105.4  | 108.9  | 106.2  | 100.1  | 100.1   | 91.3    | 102.7   |
| 87.5° | 34.2   | 35.1   | 43.0   | 50.9   | 52.7   | 47.4   | 46.5   | 44.8   | 36.0    | 34.2    | 36.9    |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2121.1 | 2121.1 | 2121.1 | 2121.1 | 2121.1 | 2121.1 | 2121.1 | 2121.1 |
| 2.5°  | 2120.2 | 2122.0 | 2122.9 | 2125.5 | 2126.4 | 2126.4 | 2127.3 | 2129.0 |
| 5°    | 2136.9 | 2139.6 | 2140.4 | 2143.9 | 2144.8 | 2143.9 | 2145.7 | 2146.6 |
| 7.5°  | 2166.8 | 2171.2 | 2172.9 | 2176.4 | 2173.8 | 2177.3 | 2178.2 | 2178.2 |
| 10°   | 2210.7 | 2215.1 | 2215.9 | 2219.5 | 2217.7 | 2219.5 | 2219.5 | 2217.7 |
| 12.5° | 2268.6 | 2269.5 | 2266.9 | 2269.5 | 2266.0 | 2267.7 | 2265.1 | 2263.3 |
| 15°   | 2332.7 | 2330.1 | 2323.9 | 2323.9 | 2318.7 | 2319.5 | 2318.7 | 2317.8 |
| 17.5° | 2395.0 | 2389.8 | 2385.4 | 2383.6 | 2379.2 | 2378.4 | 2375.7 | 2375.7 |
| 20°   | 2463.5 | 2460.9 | 2458.3 | 2454.7 | 2450.4 | 2446.0 | 2445.1 | 2446.8 |
| 22.5° | 2546.0 | 2545.2 | 2545.2 | 2543.4 | 2537.3 | 2532.9 | 2530.2 | 2530.2 |
| 25°   | 2656.7 | 2648.8 | 2648.8 | 2647.9 | 2645.3 | 2642.6 | 2637.4 | 2640.0 |
| 27.5° | 2781.3 | 2776.9 | 2780.5 | 2779.6 | 2776.9 | 2776.9 | 2773.4 | 2773.4 |
| 30°   | 2935.0 | 2933.2 | 2938.5 | 2934.1 | 2925.3 | 2924.4 | 2920.9 | 2916.5 |
| 32.5° | 3112.3 | 3110.6 | 3118.5 | 3113.2 | 3099.2 | 3091.3 | 3084.2 | 3080.7 |
| 35°   | 3309.9 | 3310.7 | 3320.4 | 3316.9 | 3301.1 | 3295.8 | 3283.5 | 3281.8 |
| 37.5° | 3525.8 | 3539.9 | 3556.6 | 3560.1 | 3546.9 | 3543.4 | 3530.2 | 3523.2 |
| 40°   | 3779.6 | 3798.0 | 3823.5 | 3829.6 | 3815.6 | 3812.9 | 3794.5 | 3784.8 |
| 42.5° | 4050.0 | 4081.6 | 4113.2 | 4118.4 | 4104.4 | 4090.4 | 4072.8 | 4065.8 |
| 45°   | 4352.0 | 4389.7 | 4431.0 | 4441.5 | 4420.5 | 4403.8 | 4381.0 | 4381.0 |
| 47.5° | 4690.9 | 4738.3 | 4784.8 | 4813.8 | 4794.5 | 4776.9 | 4749.7 | 4732.1 |
| 50°   | 5091.2 | 5156.2 | 5216.8 | 5246.6 | 5215.9 | 5182.5 | 5135.1 | 5119.3 |
| 52.5° | 5593.4 | 5663.6 | 5716.3 | 5700.5 | 5653.1 | 5606.6 | 5554.8 | 5533.7 |
| 55°   | 6234.3 | 6258.0 | 6258.0 | 6198.3 | 6103.5 | 6025.4 | 5943.7 | 5916.5 |
| 57.5° | 7035.9 | 6944.6 | 6804.1 | 6625.9 | 6402.0 | 6207.1 | 6075.4 | 6013.1 |
| 60°   | 7977.9 | 7538.9 | 7042.9 | 6555.6 | 6155.3 | 5825.2 | 5629.4 | 5539.8 |
| 62.5° | 8605.6 | 7457.3 | 6463.4 | 5681.2 | 5105.3 | 4707.6 | 4437.1 | 4331.8 |
| 65°   | 8042.9 | 6219.4 | 4888.4 | 3952.5 | 3324.8 | 2920.1 | 2652.3 | 2553.9 |
| 67.5° | 5891.0 | 3897.2 | 2603.1 | 1865.6 | 1367.0 | 1090.4 | 980.7  | 935.0  |
| 70°   | 2644.4 | 1372.2 | 841.1  | 656.7  | 566.3  | 519.7  | 499.6  | 492.5  |
| 72.5° | 797.2  | 576.8  | 486.4  | 439.0  | 403.0  | 380.2  | 363.5  | 361.7  |
| 75°   | 481.1  | 400.3  | 355.6  | 327.5  | 304.6  | 286.2  | 277.4  | 274.8  |
| 77.5° | 336.3  | 294.1  | 273.0  | 252.8  | 235.3  | 221.2  | 213.3  | 207.2  |
| 80°   | 236.2  | 216.0  | 206.3  | 194.9  | 183.5  | 170.3  | 158.9  | 153.6  |
| 82.5° | 158.0  | 153.6  | 153.6  | 146.6  | 137.0  | 124.7  | 101.8  | 96.6   |
| 85°   | 101.8  | 101.0  | 102.7  | 100.1  | 93.1   | 79.9   | 65.8   | 62.3   |
| 87.5° | 47.4   | 48.3   | 53.6   | 52.7   | 50.9   | 42.1   | 33.4   | 31.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)