

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: P322360

Luminaire Tested: **GAN-SA6B-827-U-T3-HSS**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P322360  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA6B-827-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 18310 lumens  
Efficiency: N/A  
Efficacy: 73.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 249  
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: 24 FT

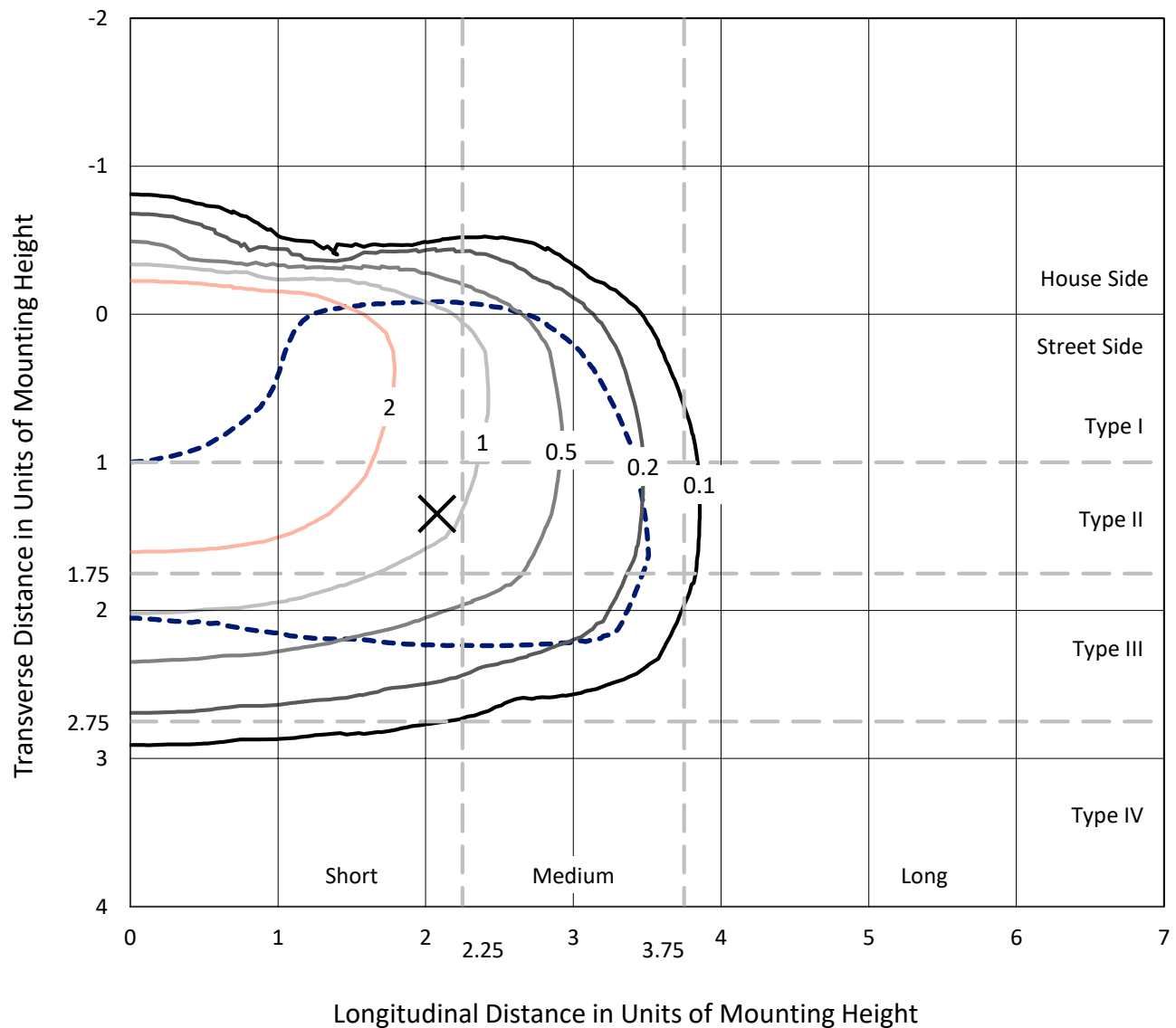


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## Iso-Footcandle Lines of Horizontal Illumination

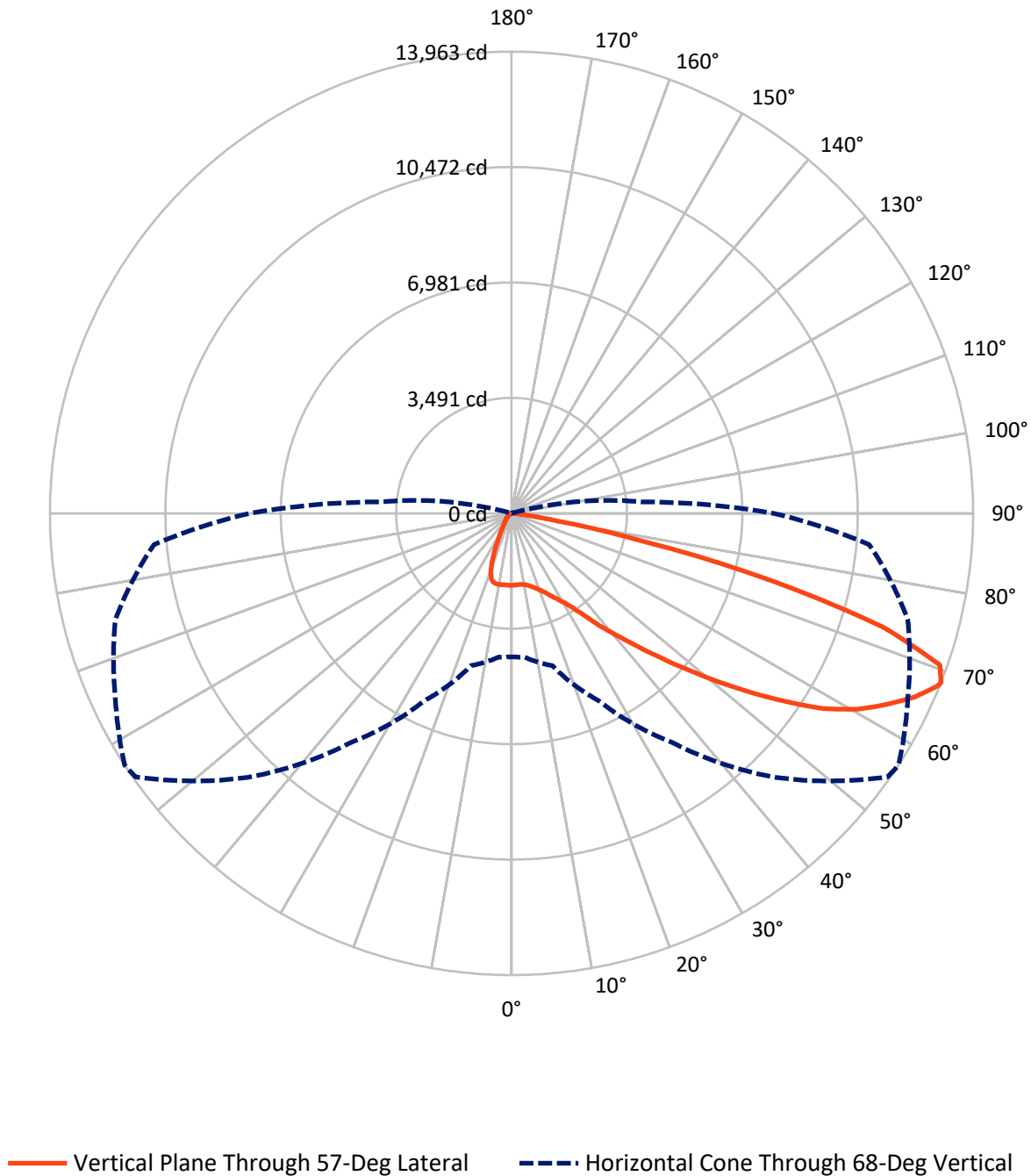
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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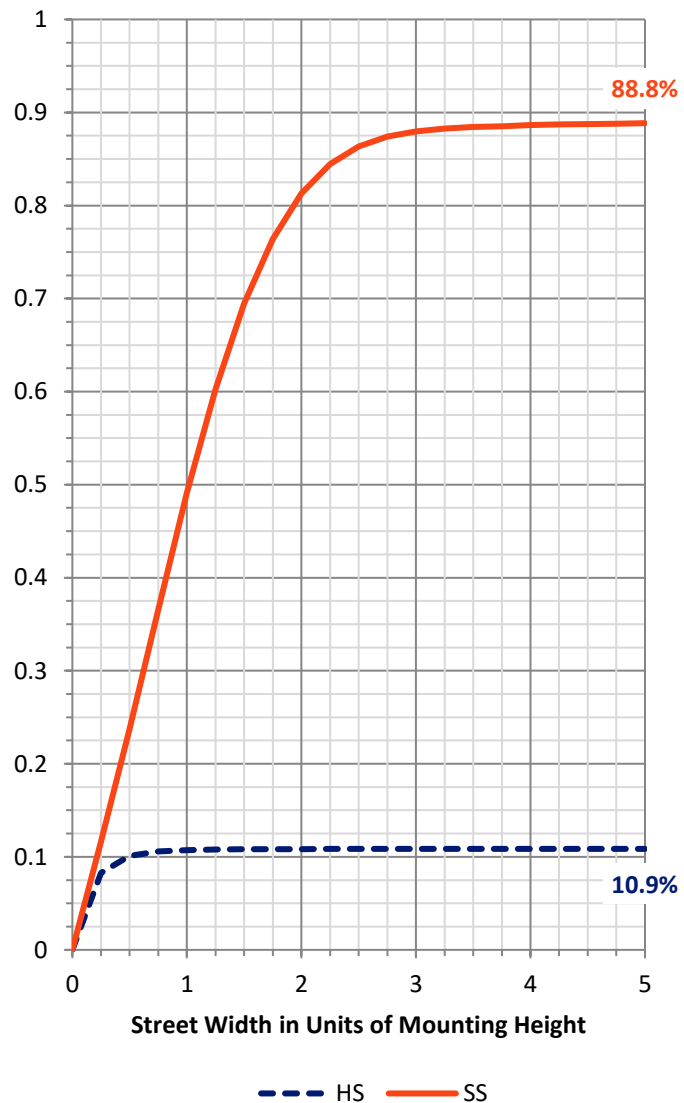
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2007.8   | 0.0    | 2007.8  |
|                    | % Fixture | 11.0     | 0.0    | 11.0    |
| <b>Street Side</b> | Lumens    | 16302.2  | 0.0    | 16302.2 |
|                    | % Fixture | 89.0     | 0.0    | 89.0    |
| <b>Total</b>       | Lumens    | 18310.0  | 0.0    | 18310.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 203.6   | 1.1       |
| 10°-20°   | 564.2   | 3.1       |
| 20°-30°   | 973.4   | 5.3       |
| 30°-40°   | 1680.0  | 9.2       |
| 40°-50°   | 2873.6  | 15.7      |
| 50°-60°   | 4597.5  | 25.1      |
| 60°-70°   | 5311.9  | 29.0      |
| 70°-80°   | 2029.8  | 11.1      |
| 80°-90°   | 76.1    | 0.4       |
| 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°    | 18310.0 | 100.0     |
| 0°-180°   | 18310.0 | 100.0     |

**Coefficient of Utilization**



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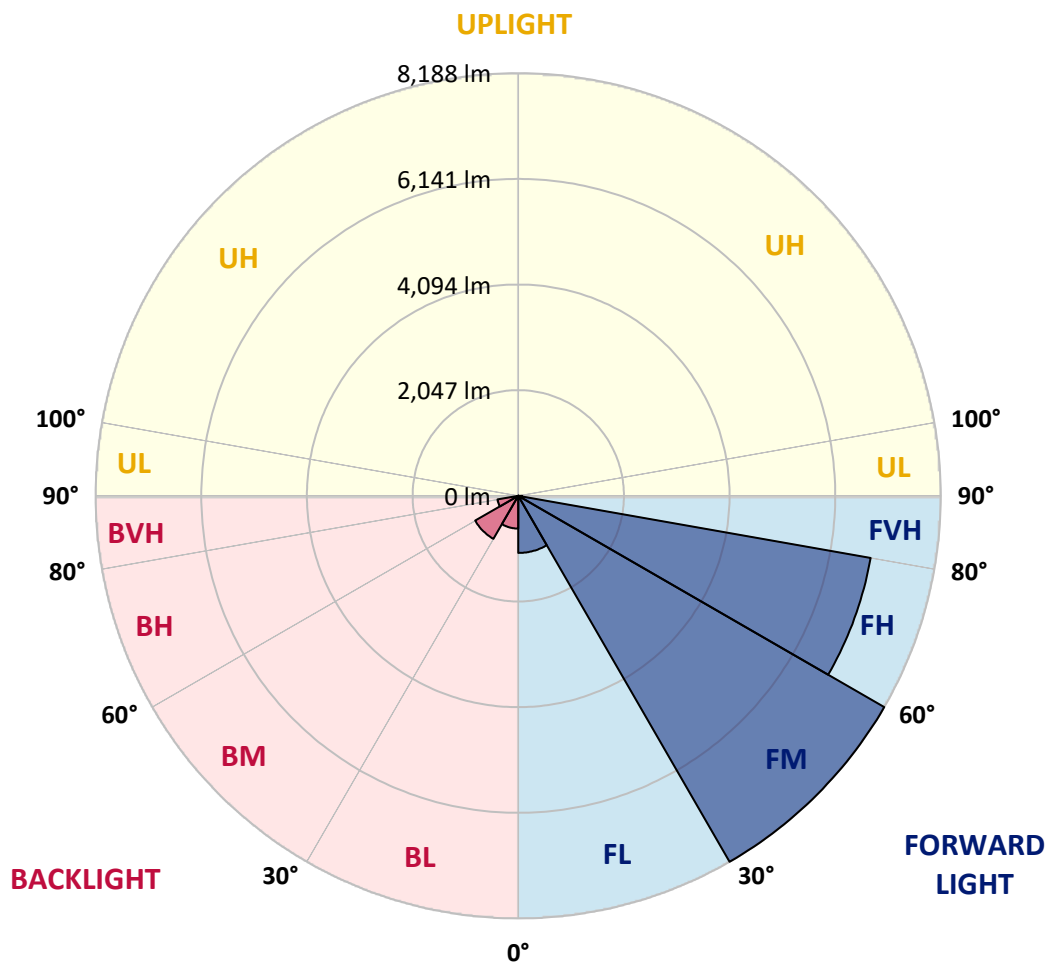
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1106.7 | 6.0       |                         |      |         |
| FM   | (30°-60°)   | 8188.1 | 44.7      |                         |      |         |
| FH   | (60°-80°)   | 6932.8 | 37.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 74.7   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 634.5  | 3.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 963.0  | 5.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 408.9  | 2.2       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.4    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 57°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2175.7 | 2175.7 | 2175.7 | 2175.7 | 2175.7  | 2175.7  | 2175.7  | 2175.7  | 2175.7  | 2175.7  | 2175.7  |
| 2.5°  | 2124.6 | 2134.2 | 2141.1 | 2145.4 | 2150.6  | 2161.9  | 2165.3  | 2170.5  | 2173.1  | 2173.1  | 2179.2  |
| 5°    | 2040.6 | 2051.0 | 2065.8 | 2077.9 | 2102.1  | 2133.3  | 2155.8  | 2164.5  | 2180.0  | 2193.9  | 2201.7  |
| 7.5°  | 1962.7 | 1974.8 | 1992.2 | 2020.7 | 2062.3  | 2112.5  | 2159.3  | 2171.4  | 2201.7  | 2231.1  | 2245.8  |
| 10°   | 1912.5 | 1922.0 | 1944.5 | 1985.2 | 2039.8  | 2109.9  | 2175.7  | 2190.4  | 2242.4  | 2291.7  | 2319.4  |
| 12.5° | 1895.2 | 1903.9 | 1927.2 | 1973.1 | 2040.6  | 2122.9  | 2213.8  | 2235.4  | 2311.6  | 2383.5  | 2422.5  |
| 15°   | 1920.3 | 1922.0 | 1947.1 | 1990.4 | 2057.1  | 2154.9  | 2277.0  | 2303.0  | 2399.1  | 2492.6  | 2541.1  |
| 17.5° | 2017.3 | 2009.5 | 2022.5 | 2041.5 | 2094.3  | 2197.4  | 2343.7  | 2382.6  | 2510.8  | 2620.7  | 2666.6  |
| 20°   | 2259.7 | 2259.7 | 2230.3 | 2178.3 | 2179.2  | 2263.2  | 2433.7  | 2477.9  | 2634.6  | 2761.8  | 2803.4  |
| 22.5° | 2674.4 | 2666.6 | 2607.7 | 2480.5 | 2363.6  | 2376.6  | 2543.7  | 2600.8  | 2783.5  | 2919.4  | 2933.3  |
| 25°   | 3173.1 | 3163.6 | 3072.7 | 2893.4 | 2690.9  | 2560.1  | 2692.6  | 2758.4  | 2961.0  | 3081.3  | 3052.7  |
| 27.5° | 3701.2 | 3693.4 | 3603.4 | 3380.9 | 3092.6  | 2852.8  | 2870.1  | 2932.4  | 3141.9  | 3260.5  | 3169.6  |
| 30°   | 4212.9 | 4215.5 | 4126.3 | 3897.8 | 3571.4  | 3225.9  | 3095.2  | 3131.5  | 3317.7  | 3438.0  | 3308.2  |
| 32.5° | 4699.5 | 4702.9 | 4625.9 | 4370.5 | 4065.7  | 3659.7  | 3406.9  | 3397.3  | 3522.0  | 3640.6  | 3491.7  |
| 35°   | 5133.2 | 5141.9 | 5089.1 | 4890.8 | 4567.9  | 4142.8  | 3811.2  | 3788.7  | 3812.0  | 3946.2  | 3773.1  |
| 37.5° | 5551.4 | 5556.6 | 5516.8 | 5349.7 | 5079.5  | 4673.5  | 4322.0  | 4290.0  | 4239.7  | 4342.8  | 4144.5  |
| 40°   | 6009.4 | 5996.4 | 5950.5 | 5799.0 | 5567.0  | 5259.6  | 4870.9  | 4815.5  | 4728.0  | 4819.8  | 4632.8  |
| 42.5° | 6435.4 | 6420.6 | 6428.4 | 6257.0 | 6061.3  | 5862.2  | 5510.7  | 5415.5  | 5364.4  | 5470.0  | 5231.9  |
| 45°   | 6967.8 | 6960.0 | 6986.0 | 6837.1 | 6678.6  | 6534.1  | 6244.0  | 6140.1  | 6117.6  | 6241.4  | 5956.6  |
| 47.5° | 7493.3 | 7512.4 | 7592.9 | 7529.7 | 7465.6  | 7338.4  | 7020.6  | 6973.9  | 6987.7  | 7137.5  | 6721.1  |
| 50°   | 7931.4 | 7953.9 | 8174.7 | 8247.4 | 8340.1  | 8265.6  | 7947.0  | 7918.4  | 7973.0  | 8108.1  | 7543.6  |
| 52.5° | 8248.3 | 8294.2 | 8568.6 | 8903.7 | 9241.4  | 9291.6  | 8973.8  | 8947.9  | 9021.5  | 9042.2  | 8179.0  |
| 55°   | 8468.2 | 8508.9 | 8819.7 | 9432.7 | 10120.1 | 10336.6 | 10139.2 | 10038.7 | 10024.9 | 9819.7  | 8847.4  |
| 57.5° | 8507.2 | 8502.8 | 8949.6 | 9774.7 | 10809.3 | 11367.7 | 11243.0 | 11144.3 | 10860.4 | 10538.3 | 9613.6  |
| 60°   | 8287.3 | 8312.4 | 8831.0 | 9893.3 | 11242.2 | 12147.8 | 12157.3 | 12029.2 | 11586.8 | 11237.0 | 10356.5 |
| 62.5° | 7610.2 | 7712.4 | 8236.2 | 9582.5 | 11237.0 | 12462.1 | 12827.4 | 12729.6 | 12200.6 | 11809.3 | 11109.7 |
| 65°   | 6512.4 | 6548.8 | 7048.3 | 8517.6 | 10477.7 | 12330.5 | 13430.9 | 13394.5 | 12753.8 | 12365.1 | 11496.7 |
| 67.5° | 4755.7 | 4677.0 | 5201.6 | 6707.2 | 8870.8  | 11563.4 | 13863.8 | 13909.7 | 13180.7 | 12479.4 | 11084.6 |
| 68°   | 4340.2 | 4363.5 | 4772.2 | 6259.6 | 8450.0  | 11292.4 | 13892.3 | 13962.5 | 13223.1 | 12404.9 | 10859.5 |
| 70°   | 2587.0 | 2632.0 | 2996.5 | 4309.9 | 6428.4  | 9759.1  | 13584.1 | 13744.3 | 12970.3 | 11637.0 | 9392.9  |
| 72.5° | 660.6  | 714.3  | 1058.9 | 1929.0 | 3671.8  | 6876.0  | 11467.3 | 11738.3 | 11261.2 | 9440.5  | 6341.0  |
| 75°   | 271.9  | 285.7  | 378.3  | 635.5  | 1367.9  | 3097.8  | 7558.3  | 8138.4  | 7806.8  | 5651.8  | 2865.7  |
| 77.5° | 187.9  | 197.4  | 243.3  | 352.4  | 592.2   | 1050.2  | 3705.5  | 4124.6  | 3715.9  | 1929.0  | 625.1   |
| 80°   | 135.1  | 142.9  | 174.0  | 234.6  | 340.3   | 374.9   | 1207.8  | 1396.5  | 1109.1  | 423.4   | 155.0   |
| 82.5° | 80.5   | 86.6   | 129.9  | 167.1  | 206.9   | 179.2   | 300.4   | 341.1   | 321.2   | 210.4   | 69.3    |
| 85°   | 39.8   | 46.8   | 87.4   | 119.5  | 111.7   | 75.3    | 91.8    | 102.2   | 126.4   | 128.1   | 37.2    |
| 87.5° | 2.6    | 5.2    | 51.1   | 71.9   | 31.2    | 17.3    | 26.8    | 32.9    | 45.0    | 63.2    | 15.6    |
| 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°    | 2175.7 | 2175.7 | 2175.7 | 2175.7 | 2175.7 | 2175.7 | 2175.7 | 2175.7 | 2175.7 | 2175.7 | 2175.7 |
| 2.5°  | 2181.8 | 2182.6 | 2176.6 | 2174.0 | 2175.7 | 2165.3 | 2161.0 | 2162.7 | 2162.7 | 2165.3 | 2161.0 |
| 5°    | 2203.4 | 2203.4 | 2193.0 | 2179.2 | 2171.4 | 2151.5 | 2138.5 | 2135.0 | 2132.4 | 2130.7 | 2127.2 |
| 7.5°  | 2250.2 | 2245.0 | 2226.8 | 2196.5 | 2170.5 | 2127.2 | 2094.3 | 2077.0 | 2068.4 | 2064.9 | 2062.3 |
| 10°   | 2325.5 | 2316.0 | 2285.7 | 2229.4 | 2169.7 | 2092.6 | 2020.7 | 1969.7 | 1927.2 | 1909.9 | 1899.5 |
| 12.5° | 2426.8 | 2412.9 | 2361.9 | 2268.3 | 2163.6 | 2021.6 | 1865.8 | 1716.0 | 1576.6 | 1519.4 | 1490.9 |
| 15°   | 2543.7 | 2523.8 | 2443.2 | 2301.2 | 2128.1 | 1861.4 | 1522.9 | 1260.6 | 1067.5 | 994.8  | 963.6  |
| 17.5° | 2662.3 | 2636.3 | 2514.2 | 2322.0 | 2021.6 | 1529.8 | 1068.4 | 806.9  | 677.9  | 643.3  | 631.2  |
| 20°   | 2781.8 | 2743.7 | 2575.7 | 2306.4 | 1780.9 | 1103.0 | 704.7  | 589.6  | 552.4  | 542.0  | 538.5  |
| 22.5° | 2895.2 | 2836.3 | 2631.1 | 2245.8 | 1410.4 | 740.2  | 557.6  | 521.2  | 509.1  | 503.0  | 501.3  |
| 25°   | 2993.9 | 2911.6 | 2679.6 | 2058.8 | 998.2  | 559.3  | 502.2  | 490.0  | 474.4  | 463.2  | 464.1  |
| 27.5° | 3086.5 | 2986.9 | 2709.0 | 1750.6 | 665.8  | 477.9  | 464.9  | 448.5  | 419.9  | 403.5  | 403.5  |
| 30°   | 3198.2 | 3087.4 | 2730.7 | 1347.2 | 490.0  | 422.5  | 412.1  | 387.0  | 348.0  | 326.4  | 326.4  |
| 32.5° | 3366.2 | 3239.8 | 2716.8 | 945.4  | 406.1  | 371.4  | 347.2  | 312.5  | 270.1  | 249.3  | 248.5  |
| 35°   | 3623.3 | 3475.2 | 2618.1 | 619.9  | 358.4  | 322.9  | 284.0  | 241.6  | 204.3  | 187.0  | 186.1  |
| 37.5° | 3969.6 | 3790.4 | 2396.5 | 443.3  | 321.2  | 277.9  | 231.2  | 184.4  | 156.7  | 145.5  | 144.6  |
| 40°   | 4419.0 | 4156.6 | 2079.6 | 359.3  | 286.6  | 234.6  | 178.4  | 142.9  | 123.8  | 115.1  | 116.0  |
| 42.5° | 4958.3 | 4548.8 | 1699.5 | 310.0  | 252.8  | 193.1  | 139.4  | 112.6  | 100.4  | 94.4   | 92.6   |
| 45°   | 5557.5 | 4935.8 | 1301.3 | 276.2  | 219.0  | 155.8  | 109.1  | 89.2   | 79.7   | 76.2   | 76.2   |
| 47.5° | 6216.3 | 5312.4 | 952.4  | 246.7  | 182.7  | 120.3  | 87.4   | 72.7   | 64.9   | 62.3   | 61.5   |
| 50°   | 6814.6 | 5573.9 | 686.6  | 215.6  | 149.8  | 95.2   | 71.0   | 60.6   | 55.4   | 51.9   | 51.9   |
| 52.5° | 7313.3 | 5656.2 | 505.6  | 181.8  | 121.2  | 76.2   | 58.9   | 51.9   | 46.8   | 44.2   | 44.2   |
| 55°   | 7752.2 | 5622.4 | 375.7  | 149.8  | 97.8   | 62.3   | 50.2   | 44.2   | 39.8   | 37.2   | 37.2   |
| 57.5° | 8173.0 | 5513.3 | 280.5  | 122.1  | 78.8   | 50.2   | 42.4   | 37.2   | 32.9   | 31.2   | 31.2   |
| 60°   | 8516.7 | 5331.5 | 208.7  | 98.7   | 63.2   | 40.7   | 35.5   | 30.3   | 26.8   | 24.2   | 24.2   |
| 62.5° | 8795.5 | 5130.6 | 153.2  | 81.4   | 50.2   | 32.0   | 27.7   | 25.1   | 19.9   | 17.3   | 17.3   |
| 65°   | 8797.2 | 4797.3 | 115.1  | 67.5   | 39.0   | 25.1   | 20.8   | 19.9   | 13.0   | 10.4   | 9.5    |
| 67.5° | 8160.9 | 4135.8 | 88.3   | 58.0   | 30.3   | 19.0   | 15.6   | 16.4   | 6.9    | 4.3    | 3.5    |
| 68°   | 7929.7 | 3967.9 | 83.1   | 57.1   | 28.6   | 18.2   | 14.7   | 16.4   | 6.1    | 3.5    | 2.6    |
| 70°   | 6685.6 | 3156.6 | 66.7   | 55.4   | 25.1   | 13.9   | 12.1   | 16.4   | 5.2    | 2.6    | 1.7    |
| 72.5° | 4276.1 | 1832.0 | 49.3   | 44.2   | 19.0   | 10.4   | 7.8    | 14.7   | 5.2    | 1.7    | 0.9    |
| 75°   | 1819.9 | 568.0  | 33.8   | 31.2   | 11.3   | 7.8    | 5.2    | 9.5    | 3.5    | 0.9    | 0.0    |
| 77.5° | 383.5  | 128.1  | 19.9   | 19.0   | 7.8    | 5.2    | 3.5    | 2.6    | 0.9    | 0.0    | 0.0    |
| 80°   | 98.7   | 37.2   | 10.4   | 9.5    | 4.3    | 2.6    | 1.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 31.2   | 14.7   | 6.1    | 4.3    | 1.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 15.6   | 8.7    | 3.5    | 1.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 8.7    | 2.6    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)