

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: P300695

Luminaire Tested: **GAA-AF-06-LED-U-AFL-7060-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300695  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-06-LED-U-AFL-7060-800-HSS  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive  
Frontline WITH HOUSESIDE SHIELD OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21390 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2  
  
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: 28.75 FT



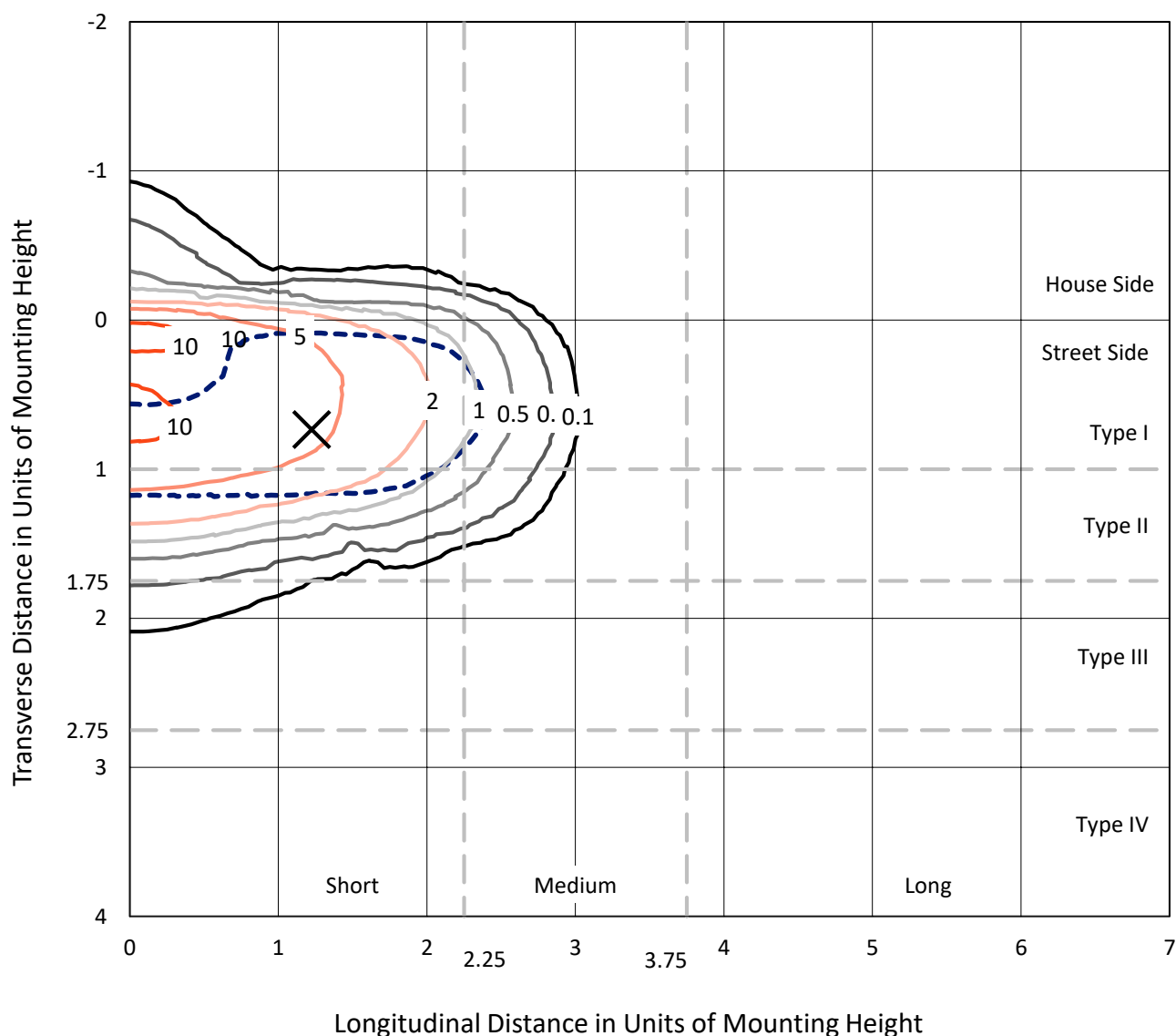
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

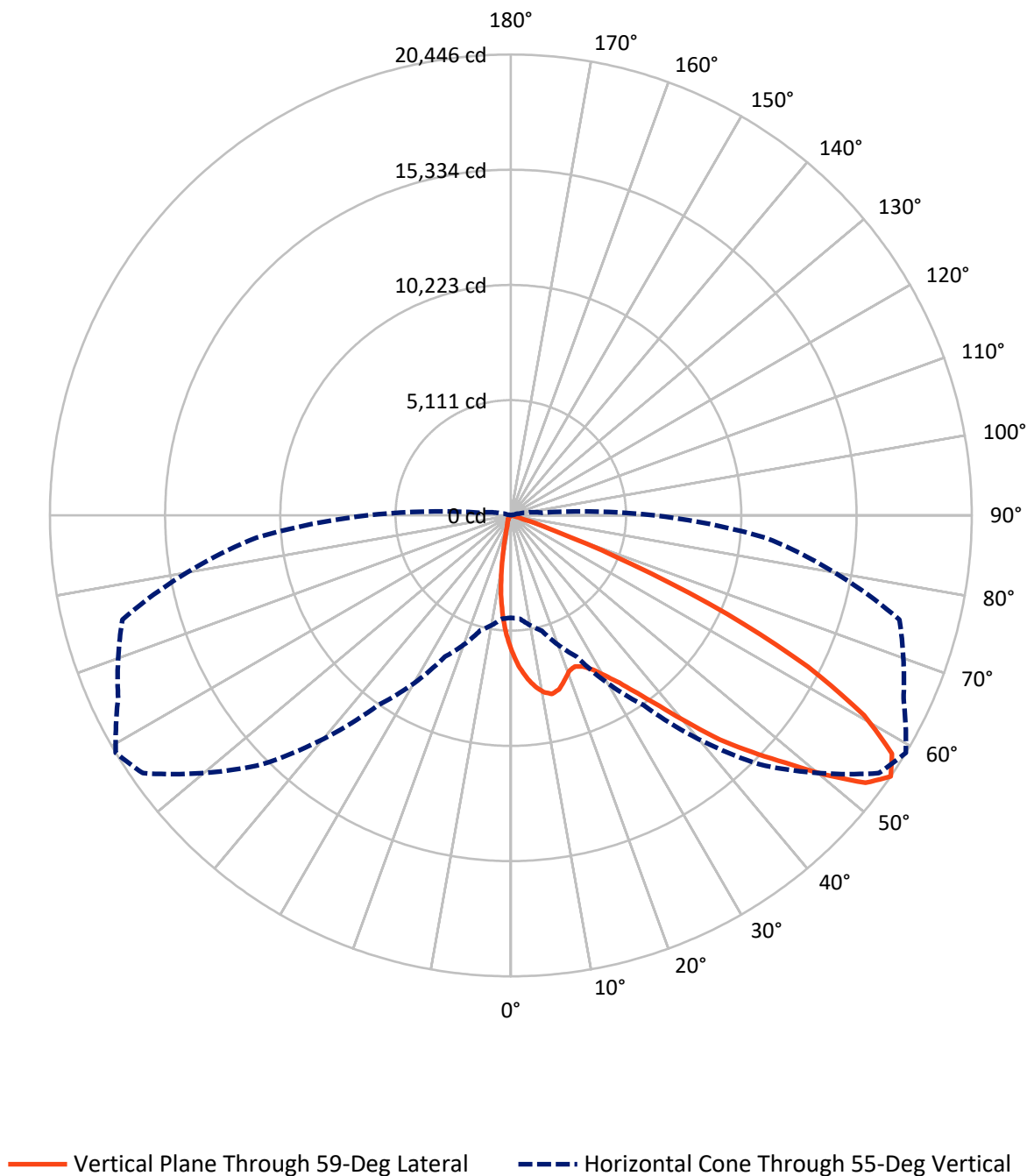


Based on 25 foot mounting height. Maximum calculated value = 12 fc  
Type II - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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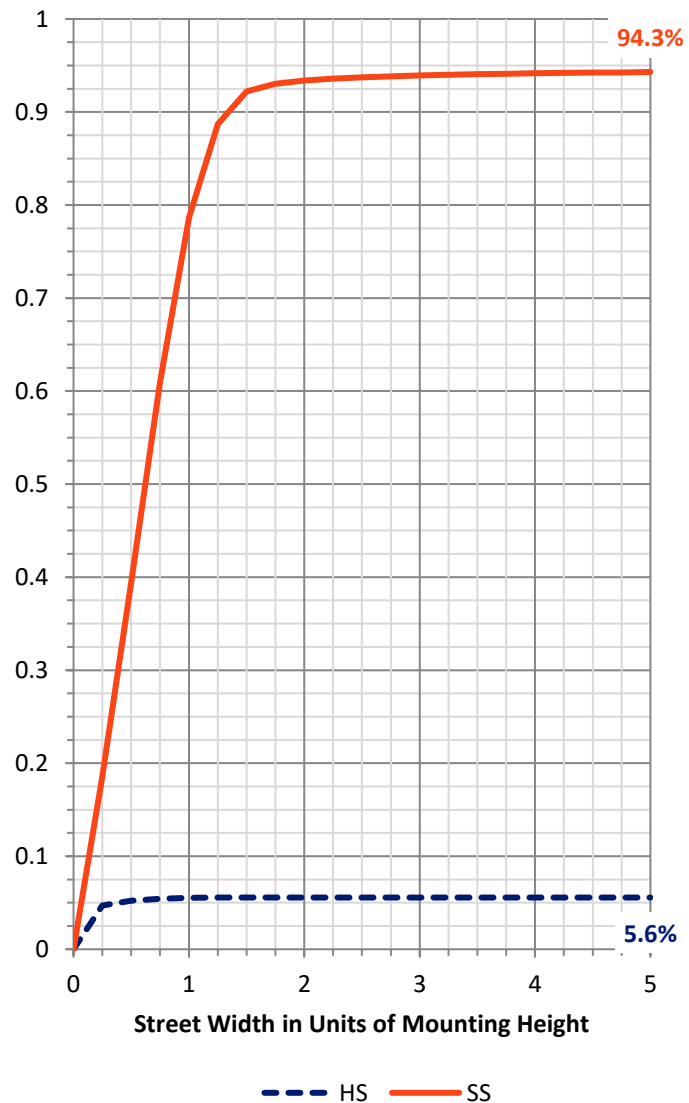
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1194.7   | 0.0    | 1194.7  |
|                    | % Fixture | 5.6      | 0.0    | 5.6     |
| <b>Street Side</b> | Lumens    | 20195.2  | 0.0    | 20195.2 |
|                    | % Fixture | 94.4     | 0.0    | 94.4    |
| <b>Total</b>       | Lumens    | 21390.0  | 0.0    | 21390.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 504.3   | 2.4       |
| 10°-20°   | 1207.5  | 5.6       |
| 20°-30°   | 2054.8  | 9.6       |
| 30°-40°   | 3533.7  | 16.5      |
| 40°-50°   | 5455.7  | 25.5      |
| 50°-60°   | 5484.7  | 25.6      |
| 60°-70°   | 2812.6  | 13.1      |
| 70°-80°   | 304.8   | 1.4       |
| 80°-90°   | 31.9    | 0.1       |
| 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°    | 21390.0 | 100.0     |
| 0°-180°   | 21390.0 | 100.0     |

**Coefficient of Utilization**



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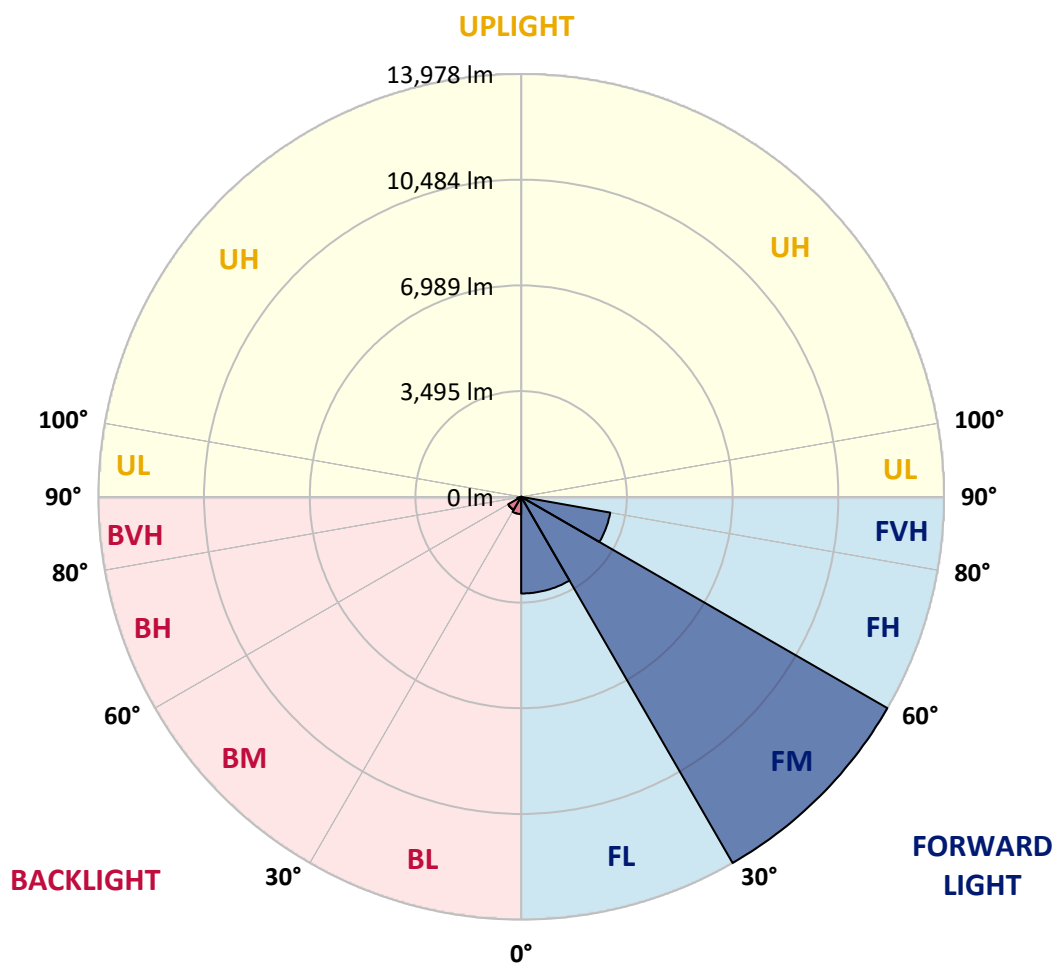
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3196.4  | 14.9      |                         |      |         |
| FM   | (30°-60°)   | 13978.3 | 65.3      |                         |      |         |
| FH   | (60°-80°)   | 2989.4  | 14.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 31.2    | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 570.3   | 2.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 495.8   | 2.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 128.0   | 0.6       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 0.7     | 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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6021.2  | 6021.2  | 6021.2  | 6021.2  | 6021.2  | 6021.2  | 6021.2  | 6021.2  | 6021.2  | 6021.2  | 6021.2  |
| 2.5°  | 7124.5  | 7048.7  | 7026.0  | 7010.9  | 6941.4  | 6854.3  | 6735.7  | 6680.1  | 6566.5  | 6383.5  | 6158.8  |
| 5°    | 7777.1  | 7763.2  | 7712.7  | 7684.9  | 7610.5  | 7486.7  | 7297.4  | 7206.5  | 7026.0  | 6718.0  | 6315.3  |
| 7.5°  | 7491.8  | 7578.9  | 7648.3  | 7764.5  | 7910.9  | 7905.8  | 7746.8  | 7652.1  | 7450.1  | 7043.7  | 6489.5  |
| 10°   | 6389.8  | 6460.5  | 6574.1  | 6837.9  | 7375.7  | 7850.3  | 8037.1  | 7968.9  | 7807.4  | 7342.8  | 6657.4  |
| 12.5° | 6173.9  | 6166.4  | 6186.6  | 6263.6  | 6545.1  | 7221.7  | 7987.9  | 8125.5  | 8092.7  | 7616.8  | 6816.5  |
| 15°   | 6288.8  | 6280.0  | 6277.5  | 6304.0  | 6372.1  | 6657.4  | 7618.0  | 8013.1  | 8266.9  | 7870.5  | 6951.5  |
| 17.5° | 6610.7  | 6572.8  | 6552.6  | 6531.2  | 6511.0  | 6581.7  | 7173.7  | 7698.8  | 8293.4  | 8092.7  | 7063.9  |
| 20°   | 7162.3  | 7099.2  | 7024.7  | 6903.6  | 6790.0  | 6754.6  | 6986.9  | 7375.7  | 8198.7  | 8261.8  | 7137.1  |
| 22.5° | 7855.3  | 7774.6  | 7645.8  | 7424.9  | 7193.9  | 7060.1  | 7079.0  | 7273.4  | 8057.3  | 8446.1  | 7171.2  |
| 25°   | 8634.2  | 8530.7  | 8359.0  | 8052.3  | 7712.7  | 7475.4  | 7351.7  | 7419.8  | 7992.9  | 8662.0  | 7210.3  |
| 27.5° | 9468.6  | 9353.7  | 9129.0  | 8711.2  | 8326.2  | 8005.6  | 7753.1  | 7744.3  | 8102.8  | 8944.7  | 7273.4  |
| 30°   | 10295.4 | 10277.7 | 9984.9  | 9543.0  | 9033.1  | 8643.0  | 8279.5  | 8232.8  | 8409.5  | 9336.0  | 7398.4  |
| 32.5° | 11398.6 | 11266.1 | 10907.6 | 10453.2 | 9864.9  | 9396.6  | 8966.2  | 8857.6  | 8880.3  | 9791.7  | 7591.5  |
| 35°   | 12789.7 | 12644.5 | 12139.6 | 11512.2 | 10854.6 | 10301.7 | 9825.8  | 9678.1  | 9622.6  | 10537.7 | 7917.2  |
| 37.5° | 13688.5 | 13685.9 | 13369.1 | 12730.4 | 12024.7 | 11415.0 | 10897.5 | 10724.6 | 10612.2 | 11439.0 | 8422.1  |
| 40°   | 13712.4 | 13771.8 | 13813.4 | 13807.1 | 13304.7 | 12743.0 | 12283.5 | 12070.2 | 11808.9 | 12643.3 | 9074.7  |
| 42.5° | 12976.5 | 13129.3 | 13496.6 | 14120.2 | 14418.1 | 14194.6 | 13807.1 | 13597.6 | 13208.8 | 13932.1 | 9870.0  |
| 45°   | 11981.8 | 12087.9 | 12730.4 | 13879.1 | 15021.5 | 15633.7 | 15338.3 | 14963.4 | 14450.9 | 15276.4 | 10583.2 |
| 47.5° | 11536.2 | 11555.2 | 11970.5 | 13231.5 | 15066.9 | 16812.7 | 16991.9 | 16382.2 | 15579.4 | 16359.5 | 11141.1 |
| 50°   | 10204.5 | 10238.6 | 10811.7 | 12109.3 | 14534.2 | 17369.3 | 18653.1 | 18075.0 | 16810.1 | 17193.9 | 11344.4 |
| 52.5° | 7691.2  | 7739.2  | 8466.3  | 10265.1 | 13069.9 | 17132.0 | 19842.2 | 19702.1 | 18158.3 | 17601.6 | 11355.7 |
| 55°   | 4538.0  | 4601.1  | 5295.4  | 6909.9  | 10280.2 | 15622.3 | 19930.6 | 20445.6 | 19222.4 | 17842.7 | 11338.0 |
| 57.5° | 2119.4  | 2163.6  | 2561.2  | 3559.7  | 6393.6  | 12346.6 | 18600.1 | 19935.6 | 19809.4 | 17970.2 | 11463.0 |
| 60°   | 1126.0  | 1138.6  | 1234.5  | 1541.3  | 2889.4  | 7828.8  | 16003.5 | 18001.8 | 19274.2 | 18146.9 | 11615.8 |
| 62.5° | 860.9   | 864.7   | 859.6   | 896.2   | 1214.3  | 3475.1  | 12096.7 | 14799.3 | 17119.4 | 18014.4 | 11446.6 |
| 65°   | 746.0   | 752.3   | 717.0   | 708.2   | 778.8   | 1239.6  | 7186.3  | 10549.1 | 13452.4 | 16225.7 | 10294.1 |
| 67.5° | 669.0   | 671.5   | 628.6   | 592.0   | 604.6   | 670.3   | 2835.1  | 5775.1  | 8904.3  | 11893.5 | 7461.5  |
| 70°   | 616.0   | 613.5   | 566.8   | 508.7   | 492.3   | 458.2   | 901.3   | 2116.9  | 4255.2  | 6031.3  | 3470.1  |
| 72.5° | 545.3   | 546.6   | 523.9   | 448.1   | 409.0   | 320.6   | 417.8   | 617.3   | 1269.9  | 1643.5  | 812.9   |
| 75°   | 483.5   | 477.2   | 449.4   | 401.4   | 337.0   | 210.8   | 207.0   | 275.2   | 391.3   | 388.8   | 175.5   |
| 77.5° | 349.7   | 343.3   | 352.2   | 329.5   | 258.8   | 136.3   | 103.5   | 132.5   | 159.1   | 154.0   | 49.2    |
| 80°   | 256.2   | 252.5   | 227.2   | 273.9   | 228.5   | 93.4    | 64.4    | 70.7    | 82.0    | 69.4    | 15.1    |
| 82.5° | 175.5   | 174.2   | 160.3   | 151.5   | 130.0   | 56.8    | 40.4    | 44.2    | 53.0    | 39.1    | 7.6     |
| 85°   | 27.8    | 31.6    | 116.1   | 92.1    | 77.0    | 25.2    | 27.8    | 30.3    | 35.3    | 21.5    | 2.5     |
| 87.5° | 0.0     | 0.0     | 54.3    | 48.0    | 15.1    | 10.1    | 16.4    | 17.7    | 17.7    | 11.4    | 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     |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6021.2 | 6021.2 | 6021.2 | 6021.2 | 6021.2 | 6021.2 | 6021.2 | 6021.2 | 6021.2 | 6021.2 | 6021.2 |
| 2.5°  | 6043.9 | 5917.7 | 5684.2 | 5443.1 | 5219.6 | 4953.3 | 4770.3 | 4632.7 | 4473.6 | 4430.7 | 4524.1 |
| 5°    | 6085.6 | 5847.0 | 5344.6 | 4798.0 | 4284.3 | 3715.0 | 3279.5 | 2934.9 | 2623.1 | 2517.0 | 2613.0 |
| 7.5°  | 6151.2 | 5796.5 | 4977.3 | 4077.3 | 3183.5 | 2294.9 | 1686.4 | 1286.3 | 1031.3 | 955.6  | 996.0  |
| 10°   | 6216.9 | 5723.3 | 4551.9 | 3223.9 | 2002.0 | 1117.1 | 727.1  | 580.7  | 526.4  | 515.0  | 521.3  |
| 12.5° | 6271.1 | 5624.8 | 4033.1 | 2292.3 | 1070.4 | 598.3  | 475.9  | 451.9  | 444.3  | 444.3  | 446.9  |
| 15°   | 6304.0 | 5475.9 | 3418.3 | 1458.0 | 616.0  | 451.9  | 415.3  | 407.7  | 407.7  | 409.0  | 411.5  |
| 17.5° | 6300.2 | 5286.5 | 2745.5 | 882.4  | 460.7  | 400.2  | 378.7  | 372.4  | 371.1  | 373.6  | 374.9  |
| 20°   | 6253.5 | 5039.1 | 2070.2 | 581.9  | 401.4  | 364.8  | 343.3  | 332.0  | 330.7  | 333.2  | 335.8  |
| 22.5° | 6165.1 | 4733.7 | 1480.7 | 448.1  | 362.3  | 330.7  | 304.2  | 294.1  | 294.1  | 296.6  | 299.2  |
| 25°   | 6057.8 | 4360.0 | 1012.4 | 380.0  | 326.9  | 294.1  | 268.9  | 260.0  | 262.6  | 268.9  | 270.1  |
| 27.5° | 5924.0 | 3939.7 | 688.0  | 325.7  | 284.0  | 257.5  | 238.6  | 232.3  | 238.6  | 247.4  | 249.9  |
| 30°   | 5809.1 | 3501.6 | 491.0  | 281.5  | 241.1  | 222.2  | 210.8  | 210.8  | 219.6  | 236.1  | 239.8  |
| 32.5° | 5720.8 | 3077.5 | 378.7  | 248.7  | 209.5  | 193.1  | 186.8  | 193.1  | 207.0  | 223.4  | 227.2  |
| 35°   | 5709.4 | 2727.8 | 320.6  | 222.2  | 186.8  | 170.4  | 167.9  | 179.2  | 193.1  | 205.8  | 208.3  |
| 37.5° | 5796.5 | 2404.7 | 289.1  | 200.7  | 166.6  | 151.5  | 149.0  | 162.8  | 176.7  | 191.9  | 195.7  |
| 40°   | 5961.9 | 2151.0 | 266.3  | 180.5  | 150.2  | 133.8  | 128.8  | 138.9  | 157.8  | 178.0  | 183.0  |
| 42.5° | 6176.5 | 1941.4 | 241.1  | 160.3  | 133.8  | 111.1  | 104.8  | 116.1  | 136.3  | 157.8  | 164.1  |
| 45°   | 6381.0 | 1760.9 | 213.3  | 137.6  | 112.3  | 85.8   | 83.3   | 98.5   | 108.6  | 130.0  | 135.1  |
| 47.5° | 6493.3 | 1601.9 | 189.3  | 112.3  | 87.1   | 69.4   | 69.4   | 73.2   | 83.3   | 108.6  | 113.6  |
| 50°   | 6455.4 | 1474.4 | 164.1  | 83.3   | 60.6   | 53.0   | 53.0   | 51.8   | 66.9   | 87.1   | 90.9   |
| 52.5° | 6379.7 | 1401.2 | 141.4  | 64.4   | 41.7   | 37.9   | 34.1   | 37.9   | 46.7   | 55.5   | 56.8   |
| 55°   | 6368.3 | 1388.5 | 118.7  | 51.8   | 29.0   | 25.2   | 18.9   | 18.9   | 18.9   | 17.7   | 15.1   |
| 57.5° | 6456.7 | 1408.7 | 99.7   | 41.7   | 21.5   | 16.4   | 10.1   | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 6547.6 | 1430.2 | 85.8   | 29.0   | 15.1   | 8.8    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 6396.1 | 1382.2 | 72.0   | 17.7   | 11.4   | 3.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 5618.5 | 1176.5 | 56.8   | 12.6   | 7.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 3996.5 | 787.7  | 37.9   | 7.6    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 1824.0 | 329.5  | 24.0   | 2.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 390.1  | 102.2  | 16.4   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 79.5   | 74.5   | 6.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 25.2   | 117.4  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 15.1   | 84.6   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 2.5    | 12.6   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 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)