

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: P324895

Luminaire Tested: **GAN-SA1D-760-U-AFL-HSS**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P324895  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1D-760-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 6649 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

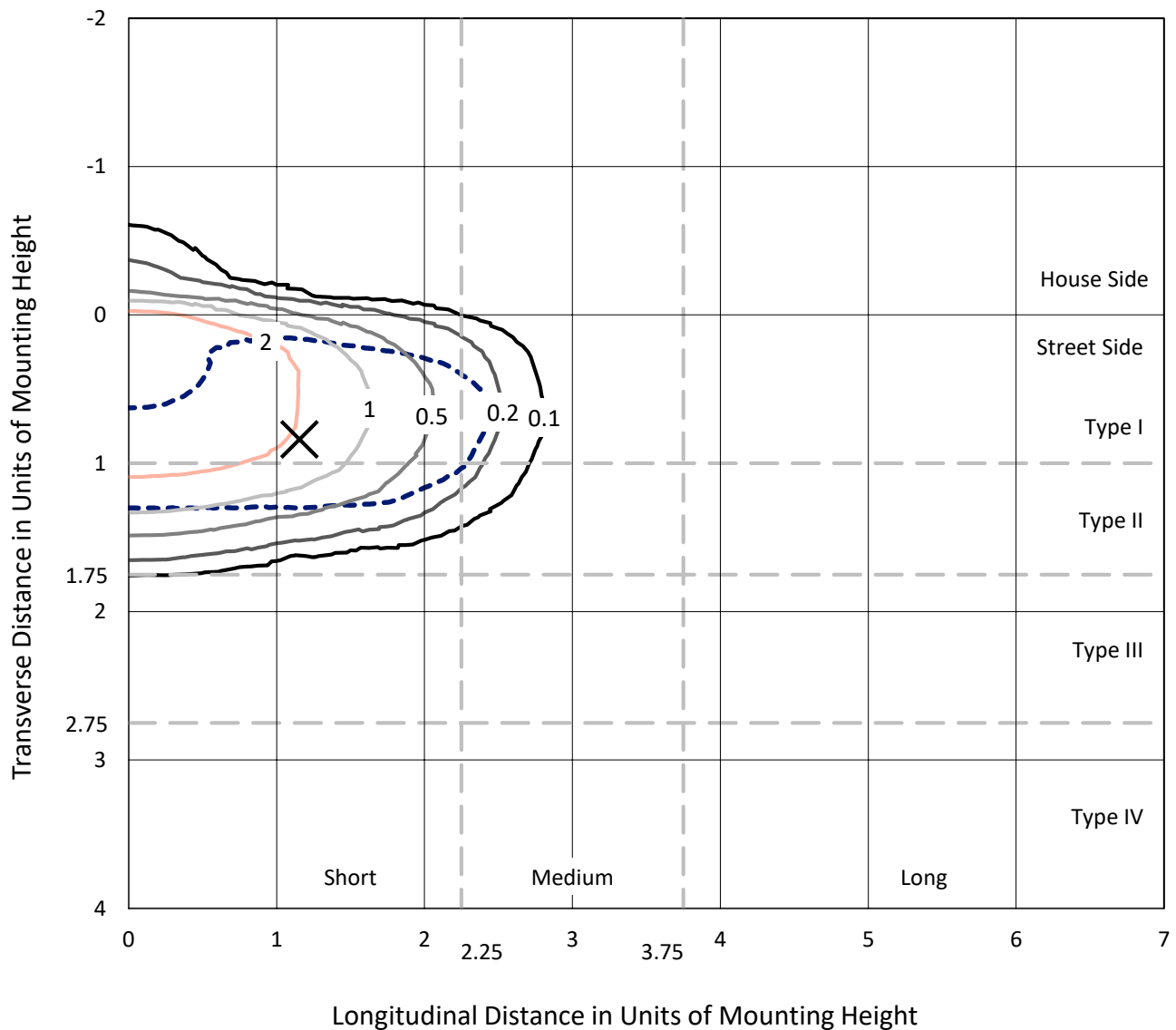
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

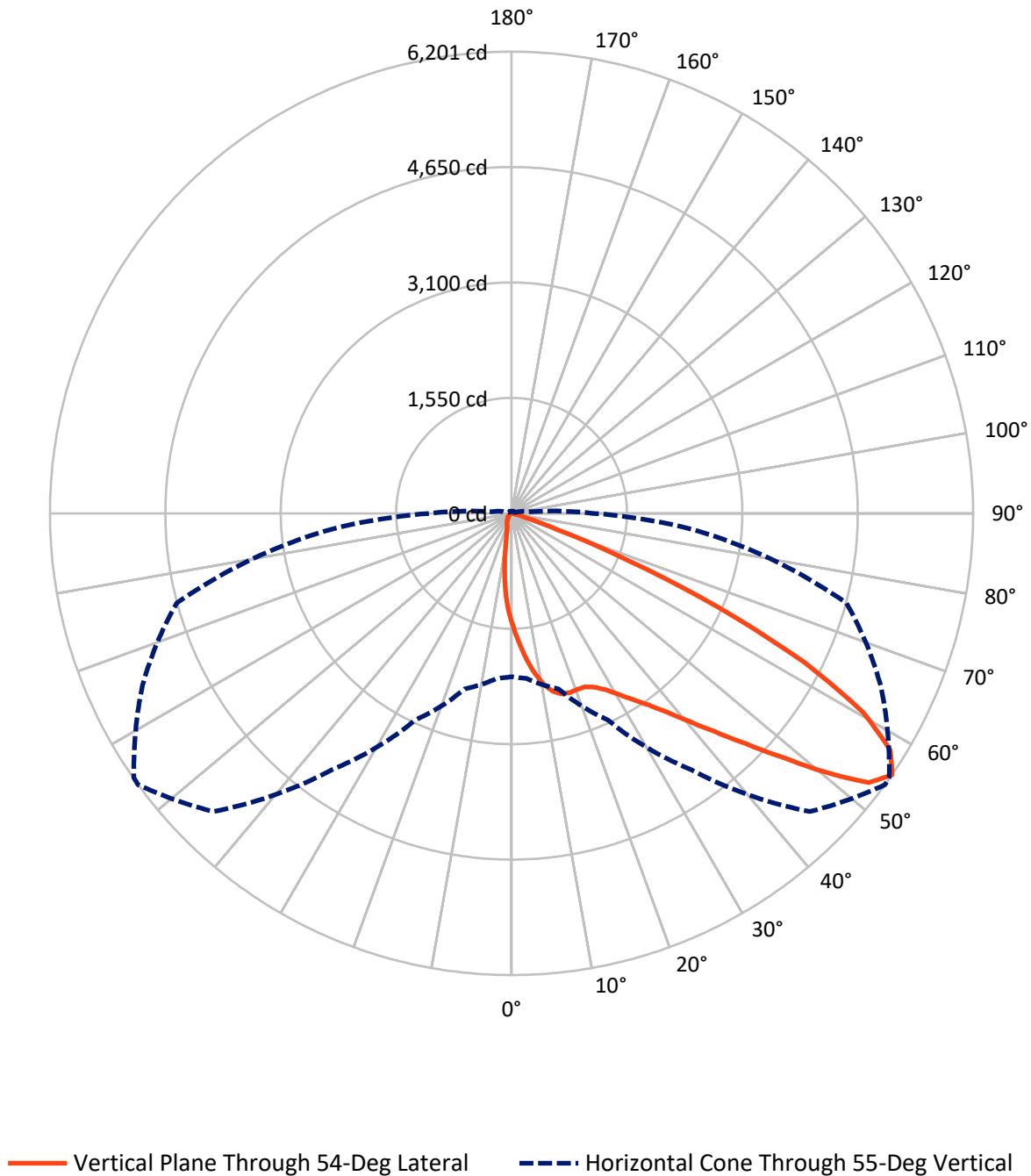
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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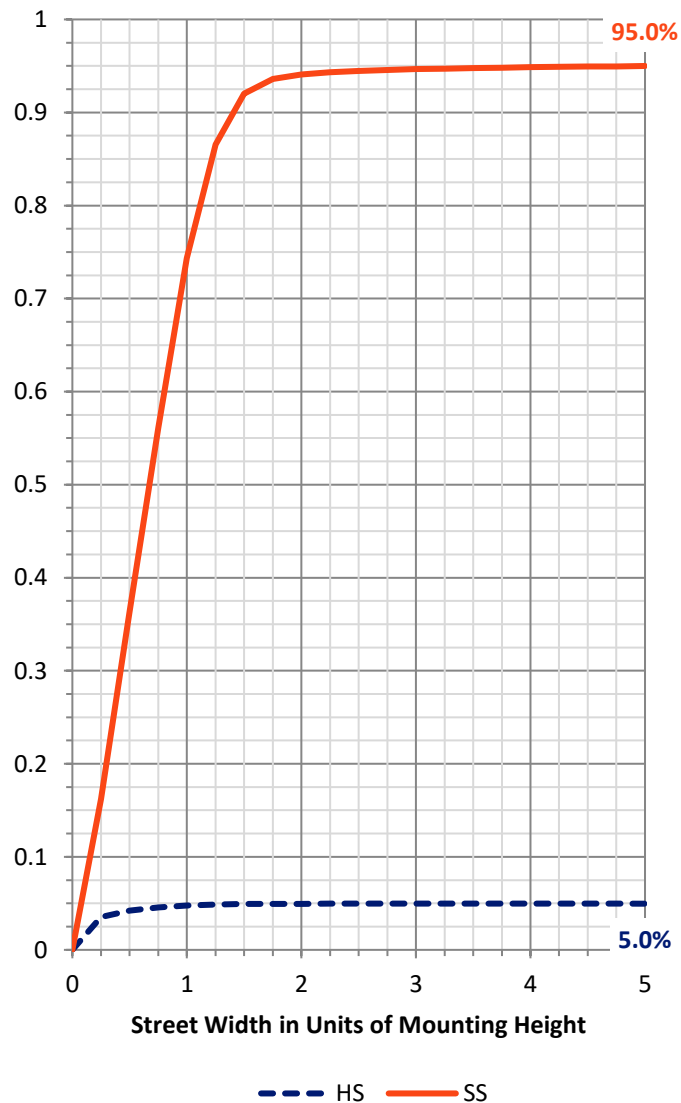
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 331.7    | 0.0    | 331.7  |
|                    | % Fixture | 5.0      | 0.0    | 5.0    |
| <b>Street Side</b> | Lumens    | 6317.3   | 0.0    | 6317.3 |
|                    | % Fixture | 95.0     | 0.0    | 95.0   |
| <b>Total</b>       | Lumens    | 6649.0   | 0.0    | 6649.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 137.1  | 2.1       |
| 10°-20°   | 376.1  | 5.7       |
| 20°-30°   | 642.1  | 9.7       |
| 30°-40°   | 1030.5 | 15.5      |
| 40°-50°   | 1646.7 | 24.8      |
| 50°-60°   | 1764.5 | 26.5      |
| 60°-70°   | 905.9  | 13.6      |
| 70°-80°   | 137.2  | 2.1       |
| 80°-90°   | 8.9    | 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°    | 6649.0 | 100.0     |
| 0°-180°   | 6649.0 | 100.0     |

**Coefficient of Utilization**



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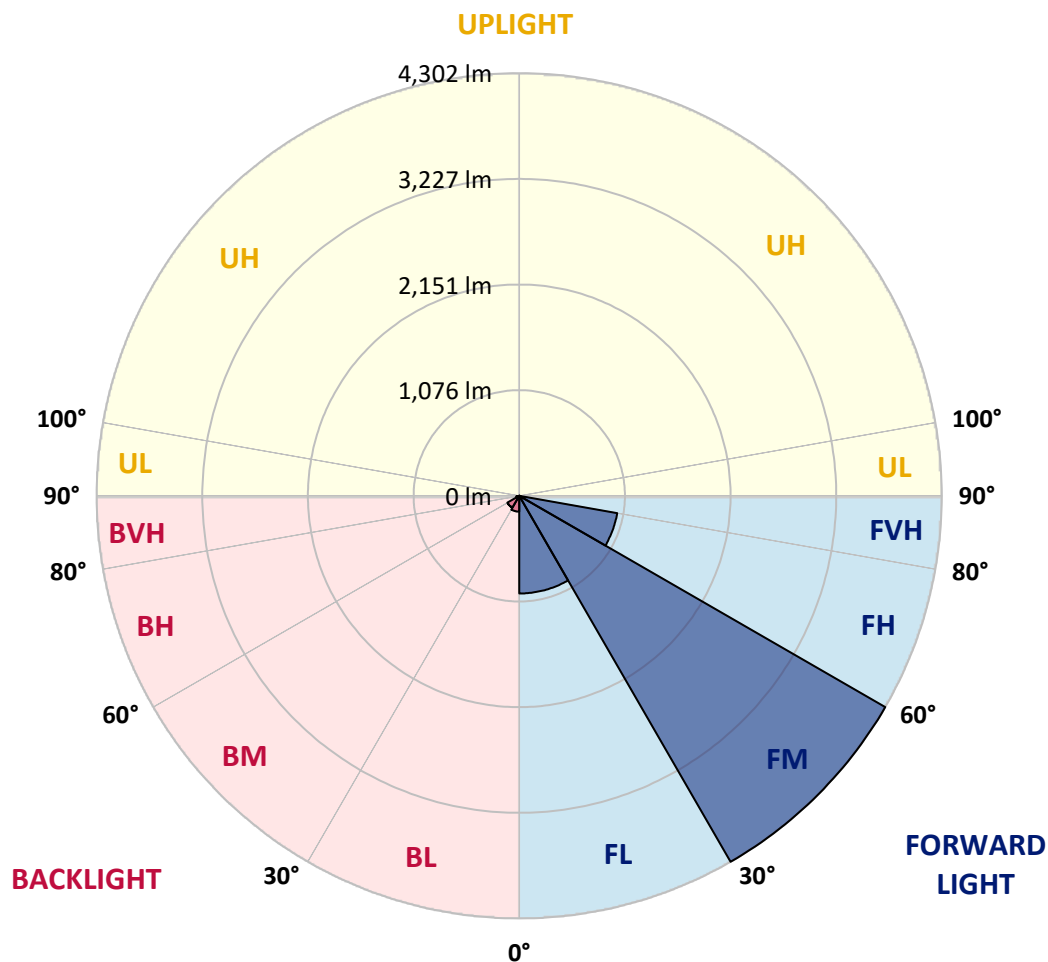
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 993.9  | 14.9      |                         |      |         |
| FM   | (30°-60°)   | 4302.2 | 64.7      |                         |      |         |
| FH   | (60°-80°)   | 1012.6 | 15.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 8.6    | 0.1       |                         |      | G0/10   |
| BL   | (0°-30°)    | 161.4  | 2.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 139.4  | 2.1       | B0/220                  |      |         |
| BH   | (60°-80°)   | 30.6   | 0.5       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.4    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 54°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1489.1 | 1489.1 | 1489.1 | 1489.1 | 1489.1 | 1489.1 | 1489.1 | 1489.1 | 1489.1 | 1489.1 | 1489.1 |
| 2.5°  | 1868.7 | 1840.9 | 1841.7 | 1829.1 | 1782.9 | 1746.7 | 1709.1 | 1700.2 | 1641.6 | 1580.1 | 1521.0 |
| 5°    | 2191.7 | 2171.4 | 2166.5 | 2142.1 | 2077.7 | 2009.7 | 1936.8 | 1919.8 | 1805.3 | 1679.5 | 1555.7 |
| 7.5°  | 2357.7 | 2358.0 | 2354.0 | 2345.1 | 2304.9 | 2238.8 | 2149.8 | 2132.0 | 1976.1 | 1787.4 | 1591.9 |
| 10°   | 2309.5 | 2320.4 | 2342.8 | 2372.4 | 2403.1 | 2394.7 | 2327.8 | 2311.8 | 2142.4 | 1901.7 | 1632.1 |
| 12.5° | 2196.9 | 2198.3 | 2223.3 | 2271.9 | 2360.3 | 2451.0 | 2452.2 | 2446.7 | 2301.1 | 2021.2 | 1676.3 |
| 15°   | 2140.9 | 2146.4 | 2155.6 | 2186.9 | 2270.7 | 2416.0 | 2519.9 | 2527.7 | 2446.7 | 2148.1 | 1723.4 |
| 17.5° | 2177.7 | 2185.4 | 2177.7 | 2181.4 | 2229.9 | 2360.6 | 2531.7 | 2551.5 | 2573.9 | 2273.6 | 1767.9 |
| 20°   | 2277.3 | 2284.5 | 2270.7 | 2255.5 | 2265.0 | 2344.5 | 2523.4 | 2550.1 | 2673.6 | 2385.0 | 1805.3 |
| 22.5° | 2411.7 | 2414.6 | 2393.6 | 2368.6 | 2361.7 | 2399.1 | 2530.3 | 2557.8 | 2753.4 | 2485.8 | 1828.8 |
| 25°   | 2559.6 | 2562.2 | 2536.0 | 2507.3 | 2490.9 | 2506.2 | 2586.8 | 2607.5 | 2823.7 | 2582.0 | 1842.3 |
| 27.5° | 2720.7 | 2723.0 | 2690.2 | 2654.9 | 2635.9 | 2636.5 | 2680.2 | 2702.3 | 2898.7 | 2691.7 | 1853.2 |
| 30°   | 2890.9 | 2889.8 | 2859.6 | 2810.5 | 2786.4 | 2785.8 | 2814.5 | 2836.9 | 3007.2 | 2832.4 | 1868.1 |
| 32.5° | 3082.2 | 3079.9 | 3037.1 | 2976.2 | 2948.9 | 2952.9 | 2978.5 | 2991.4 | 3141.9 | 2982.2 | 1894.8 |
| 35°   | 3334.0 | 3327.4 | 3262.8 | 3187.3 | 3137.0 | 3135.6 | 3157.1 | 3167.4 | 3313.6 | 3163.7 | 1939.3 |
| 37.5° | 3660.8 | 3654.7 | 3567.1 | 3457.5 | 3386.8 | 3360.4 | 3386.0 | 3399.2 | 3558.5 | 3396.6 | 2010.8 |
| 40°   | 3982.9 | 3976.9 | 3924.9 | 3824.4 | 3715.6 | 3652.1 | 3672.2 | 3686.3 | 3864.3 | 3679.1 | 2101.0 |
| 42.5° | 4205.2 | 4210.3 | 4228.4 | 4236.8 | 4134.8 | 4001.6 | 4010.8 | 4025.4 | 4185.6 | 3981.2 | 2204.1 |
| 45°   | 4263.7 | 4274.9 | 4377.2 | 4577.9 | 4616.1 | 4512.1 | 4415.9 | 4424.0 | 4512.1 | 4283.3 | 2307.2 |
| 47.5° | 4087.7 | 4108.4 | 4305.7 | 4678.9 | 5002.3 | 5075.8 | 4893.7 | 4883.1 | 4825.4 | 4527.6 | 2380.4 |
| 50°   | 3687.7 | 3706.7 | 3962.2 | 4514.4 | 5119.4 | 5613.9 | 5466.3 | 5435.0 | 5100.2 | 4673.8 | 2406.2 |
| 52.5° | 3108.9 | 3131.8 | 3339.4 | 3996.4 | 4898.6 | 5853.9 | 6008.4 | 5982.3 | 5301.8 | 4685.3 | 2410.5 |
| 55°   | 2195.5 | 2223.3 | 2443.0 | 3062.9 | 4198.9 | 5663.0 | 6200.5 | 6192.8 | 5469.2 | 4654.8 | 2419.7 |
| 57.5° | 1233.8 | 1253.9 | 1490.8 | 1963.5 | 3075.3 | 4932.5 | 5999.8 | 6051.2 | 5570.2 | 4602.0 | 2433.5 |
| 60°   | 547.9  | 553.3  | 675.9  | 977.4  | 1800.4 | 3769.6 | 5425.2 | 5511.9 | 5483.5 | 4531.4 | 2456.8 |
| 62.5° | 303.8  | 299.2  | 299.2  | 406.3  | 782.5  | 2333.6 | 4424.0 | 4567.3 | 5113.4 | 4447.8 | 2457.9 |
| 65°   | 238.0  | 233.7  | 221.4  | 223.1  | 298.1  | 1035.7 | 3063.5 | 3318.2 | 4410.5 | 4202.9 | 2375.2 |
| 67.5° | 201.9  | 198.1  | 185.8  | 180.9  | 185.2  | 341.7  | 1683.2 | 1947.7 | 3346.6 | 3566.3 | 2057.4 |
| 70°   | 170.6  | 168.0  | 161.7  | 155.6  | 144.7  | 168.8  | 644.1  | 823.8  | 2062.2 | 2372.4 | 1404.4 |
| 72.5° | 137.3  | 136.1  | 138.4  | 133.2  | 120.0  | 112.6  | 220.2  | 266.8  | 926.3  | 1058.7 | 578.6  |
| 75°   | 118.3  | 117.7  | 118.9  | 113.7  | 98.8   | 78.4   | 112.0  | 122.3  | 261.3  | 259.0  | 117.2  |
| 77.5° | 77.0   | 77.8   | 98.5   | 96.2   | 85.0   | 52.3   | 58.0   | 62.6   | 79.3   | 59.4   | 35.6   |
| 80°   | 49.1   | 48.5   | 50.0   | 79.8   | 76.4   | 39.9   | 29.0   | 30.4   | 38.2   | 29.3   | 17.2   |
| 82.5° | 29.9   | 29.3   | 32.7   | 37.3   | 38.5   | 27.9   | 17.8   | 18.1   | 23.8   | 19.0   | 9.2    |
| 85°   | 2.6    | 3.4    | 19.8   | 18.4   | 13.2   | 8.6    | 8.6    | 9.2    | 12.6   | 11.2   | 5.2    |
| 87.5° | 0.0    | 0.0    | 3.4    | 5.2    | 2.9    | 3.2    | 3.2    | 3.4    | 4.9    | 4.9    | 2.6    |
| 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°    | 1489.1 | 1489.1 | 1489.1 | 1489.1 | 1489.1 | 1489.1 | 1489.1 | 1489.1 | 1489.1 | 1489.1 | 1489.1 |
| 2.5°  | 1490.3 | 1460.4 | 1400.1 | 1342.1 | 1293.0 | 1245.6 | 1191.6 | 1138.2 | 1113.2 | 1103.2 | 1092.9 |
| 5°    | 1492.8 | 1431.4 | 1307.1 | 1181.9 | 1052.1 | 935.2  | 835.6  | 733.4  | 682.2  | 659.8  | 649.5  |
| 7.5°  | 1496.3 | 1402.7 | 1201.7 | 991.5  | 782.5  | 624.0  | 485.6  | 396.5  | 358.1  | 352.0  | 337.1  |
| 10°   | 1496.9 | 1367.9 | 1079.4 | 781.3  | 524.6  | 376.2  | 289.4  | 243.5  | 226.6  | 223.7  | 218.8  |
| 12.5° | 1498.0 | 1326.9 | 943.5  | 578.6  | 349.7  | 251.5  | 209.3  | 194.1  | 189.5  | 189.2  | 189.2  |
| 15°   | 1501.5 | 1283.8 | 802.6  | 416.9  | 251.2  | 199.3  | 183.8  | 177.7  | 176.0  | 176.9  | 176.6  |
| 17.5° | 1501.5 | 1233.0 | 664.2  | 310.7  | 203.0  | 179.2  | 170.6  | 166.5  | 166.0  | 166.8  | 167.1  |
| 20°   | 1490.5 | 1171.2 | 537.2  | 241.8  | 180.0  | 166.3  | 158.5  | 154.8  | 153.3  | 153.9  | 154.2  |
| 22.5° | 1464.4 | 1095.4 | 433.9  | 200.1  | 164.8  | 154.5  | 146.2  | 140.4  | 138.1  | 138.4  | 138.4  |
| 25°   | 1423.6 | 1005.6 | 339.4  | 173.1  | 152.5  | 141.8  | 132.1  | 125.5  | 124.0  | 123.8  | 124.3  |
| 27.5° | 1371.4 | 906.2  | 270.2  | 152.5  | 137.8  | 127.8  | 118.0  | 112.6  | 111.4  | 111.7  | 112.0  |
| 30°   | 1320.0 | 803.1  | 213.1  | 135.0  | 121.5  | 112.0  | 104.5  | 101.9  | 101.9  | 102.8  | 103.1  |
| 32.5° | 1272.9 | 704.1  | 168.6  | 119.7  | 106.8  | 98.2   | 93.9   | 93.6   | 95.0   | 95.6   | 95.9   |
| 35°   | 1232.4 | 612.5  | 139.6  | 108.0  | 95.3   | 87.9   | 86.4   | 87.6   | 89.3   | 90.4   | 90.7   |
| 37.5° | 1203.7 | 530.6  | 122.0  | 98.2   | 86.4   | 80.4   | 80.1   | 82.4   | 84.7   | 87.3   | 87.9   |
| 40°   | 1191.6 | 461.4  | 110.0  | 89.6   | 79.3   | 74.7   | 73.8   | 77.0   | 81.3   | 85.0   | 85.6   |
| 42.5° | 1181.6 | 404.9  | 99.6   | 81.3   | 73.5   | 66.9   | 66.6   | 70.6   | 75.8   | 79.5   | 80.4   |
| 45°   | 1173.0 | 359.5  | 90.2   | 72.4   | 66.0   | 57.4   | 58.3   | 63.5   | 67.5   | 71.5   | 72.4   |
| 47.5° | 1155.2 | 322.2  | 79.8   | 62.9   | 54.6   | 49.1   | 50.8   | 55.4   | 58.6   | 64.6   | 65.5   |
| 50°   | 1123.3 | 291.7  | 69.2   | 51.4   | 44.5   | 42.5   | 45.1   | 48.2   | 52.3   | 57.4   | 58.0   |
| 52.5° | 1101.8 | 268.8  | 60.0   | 43.1   | 36.8   | 37.3   | 39.9   | 41.1   | 43.4   | 45.4   | 44.8   |
| 55°   | 1089.4 | 256.1  | 52.5   | 37.3   | 31.3   | 33.0   | 33.6   | 32.2   | 31.0   | 29.0   | 28.1   |
| 57.5° | 1088.0 | 244.6  | 46.8   | 32.4   | 27.6   | 28.4   | 26.4   | 21.5   | 17.5   | 15.2   | 14.6   |
| 60°   | 1085.7 | 230.6  | 42.2   | 27.3   | 24.4   | 23.3   | 19.0   | 11.8   | 8.3    | 7.8    | 7.8    |
| 62.5° | 1060.7 | 208.8  | 38.8   | 23.0   | 20.7   | 17.5   | 10.9   | 5.5    | 4.6    | 4.9    | 4.9    |
| 65°   | 981.2  | 178.3  | 35.3   | 18.7   | 16.4   | 12.6   | 5.5    | 3.2    | 1.7    | 2.0    | 2.0    |
| 67.5° | 834.1  | 142.1  | 31.6   | 14.4   | 12.3   | 8.0    | 3.2    | 1.4    | 0.0    | 0.0    | 0.0    |
| 70°   | 558.5  | 88.2   | 26.7   | 10.0   | 8.0    | 4.9    | 2.3    | 0.3    | 0.0    | 0.0    | 0.0    |
| 72.5° | 214.2  | 47.7   | 21.5   | 6.0    | 5.2    | 3.4    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 48.2   | 31.3   | 14.9   | 4.3    | 3.7    | 2.3    | 0.6    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 18.4   | 22.7   | 8.6    | 2.9    | 2.6    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 8.9    | 13.5   | 4.0    | 1.7    | 1.4    | 0.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 4.6    | 5.2    | 1.7    | 0.9    | 0.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 2.6    | 2.6    | 0.9    | 0.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 1.4    | 0.9    | 0.3    | 0.3    | 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)