

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: P324885

Luminaire Tested: **GAN-SA1C-760-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324885  
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-SA1C-760-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K, 1050mA 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: 6062 lumens  
Efficiency: N/A  
Efficacy: 102.7 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

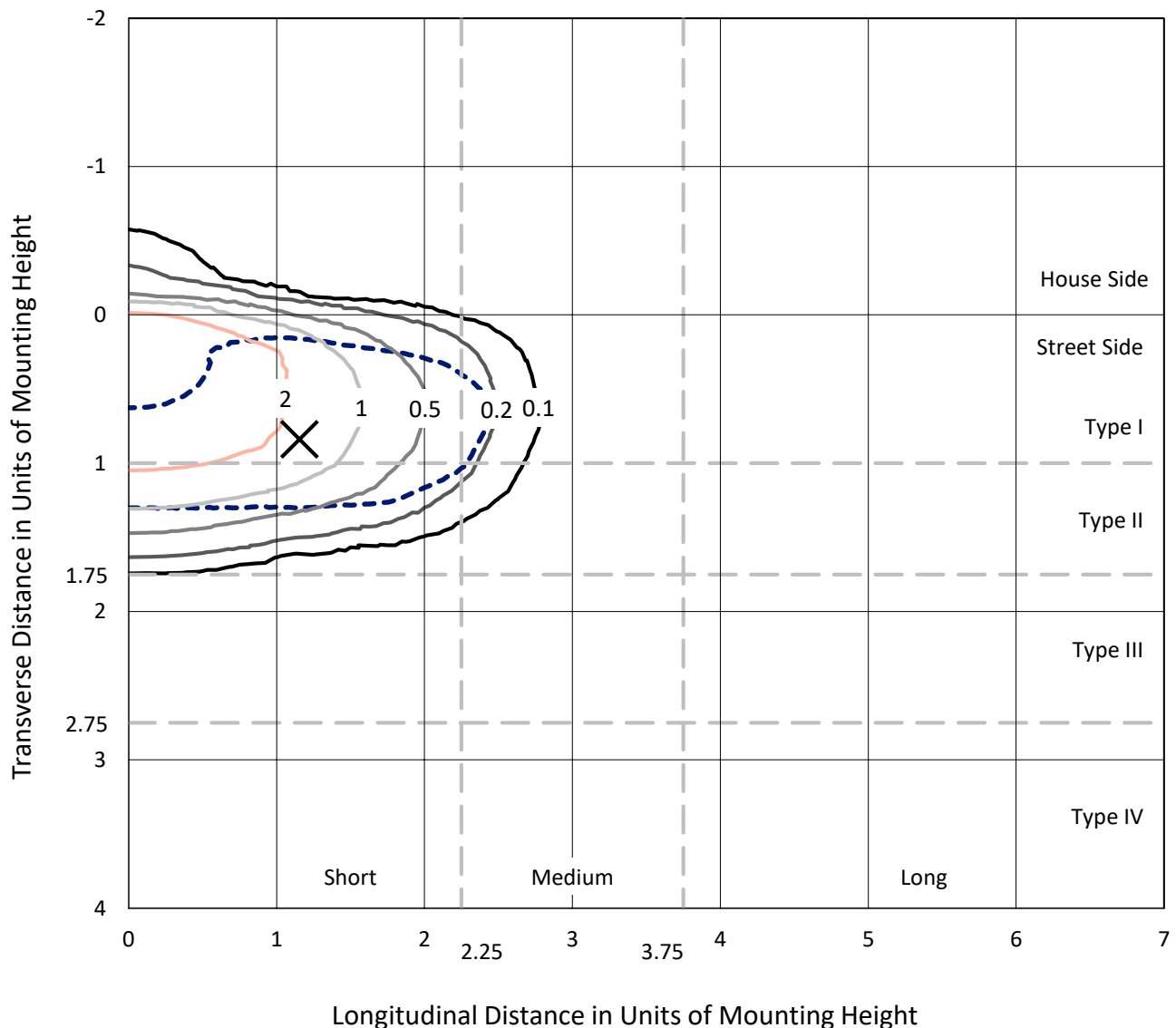
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

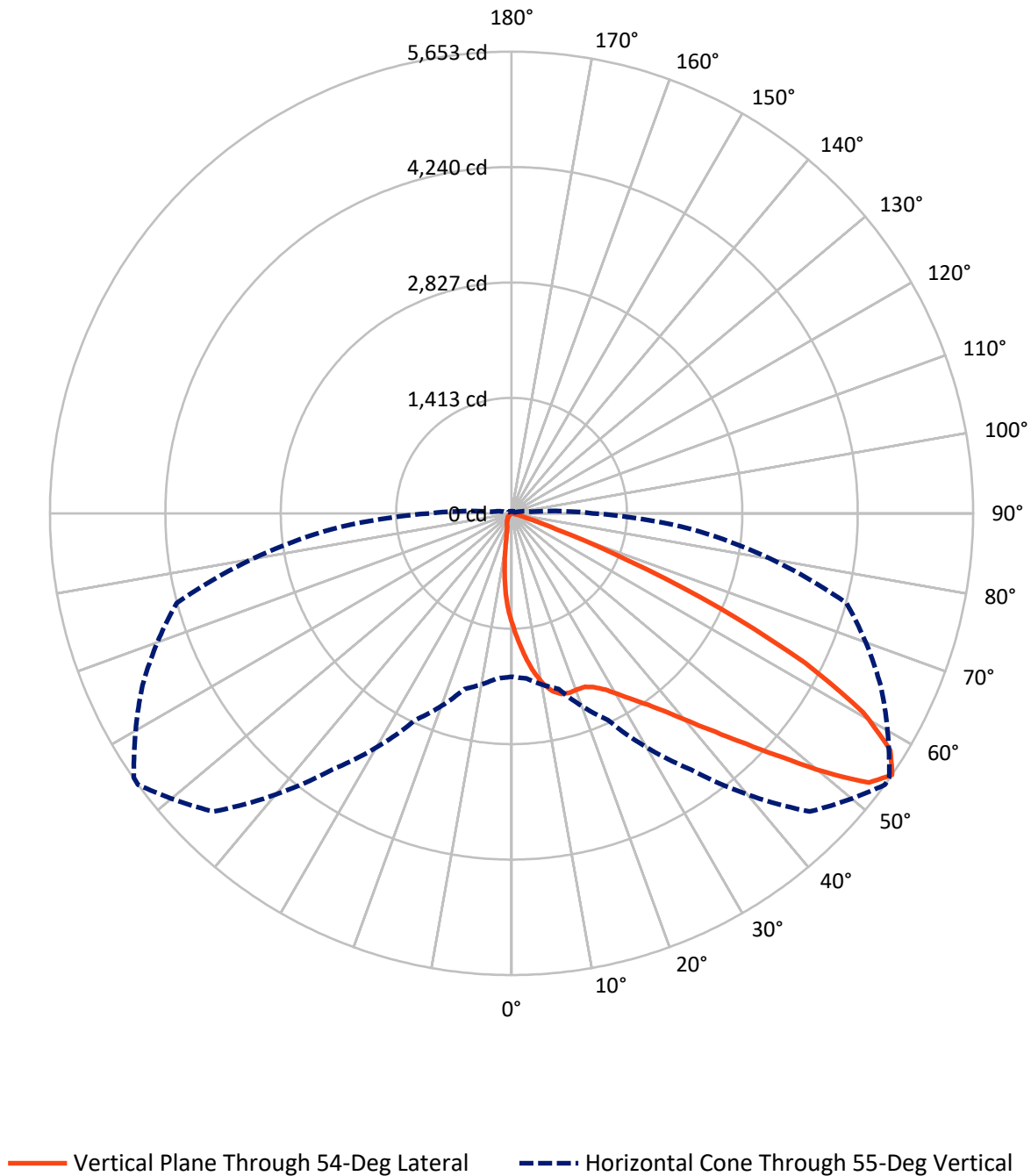
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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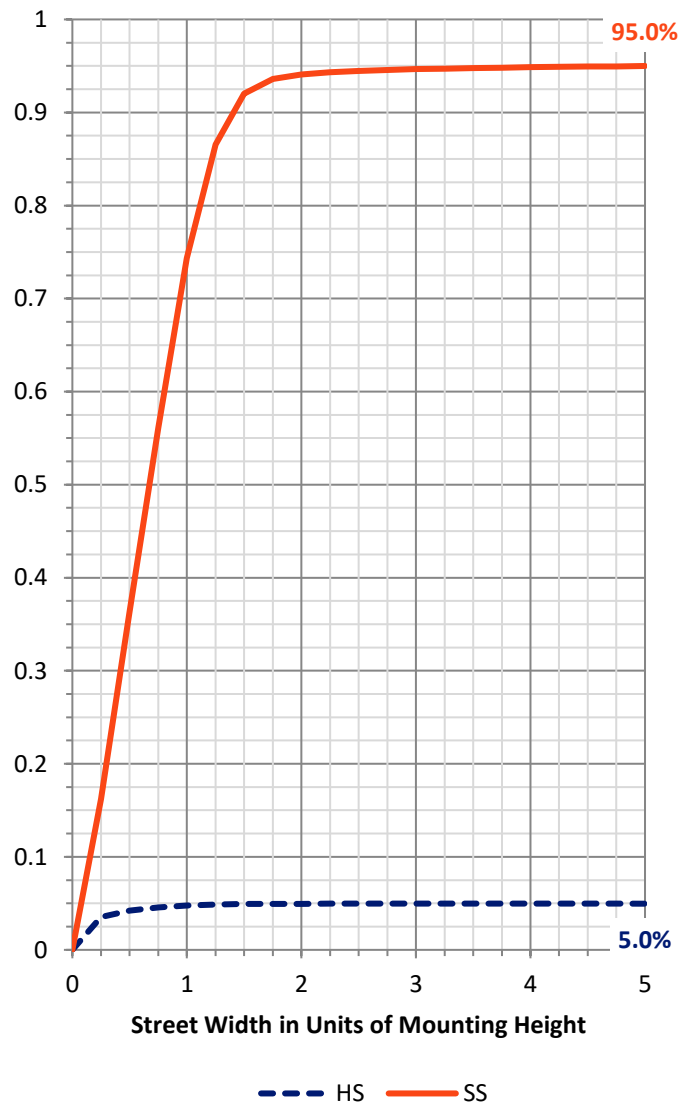
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 302.4    | 0.0    | 302.4  |
|                    | % Fixture | 5.0      | 0.0    | 5.0    |
| <b>Street Side</b> | Lumens    | 5759.5   | 0.0    | 5759.5 |
|                    | % Fixture | 95.0     | 0.0    | 95.0   |
| <b>Total</b>       | Lumens    | 6062.0   | 0.0    | 6062.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 125.0  | 2.1       |
| 10°-20°   | 342.9  | 5.7       |
| 20°-30°   | 585.4  | 9.7       |
| 30°-40°   | 939.5  | 15.5      |
| 40°-50°   | 1501.3 | 24.8      |
| 50°-60°   | 1608.7 | 26.5      |
| 60°-70°   | 825.9  | 13.6      |
| 70°-80°   | 125.1  | 2.1       |
| 80°-90°   | 8.1    | 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°    | 6062.0 | 100.0     |
| 0°-180°   | 6062.0 | 100.0     |

**Coefficient of Utilization**



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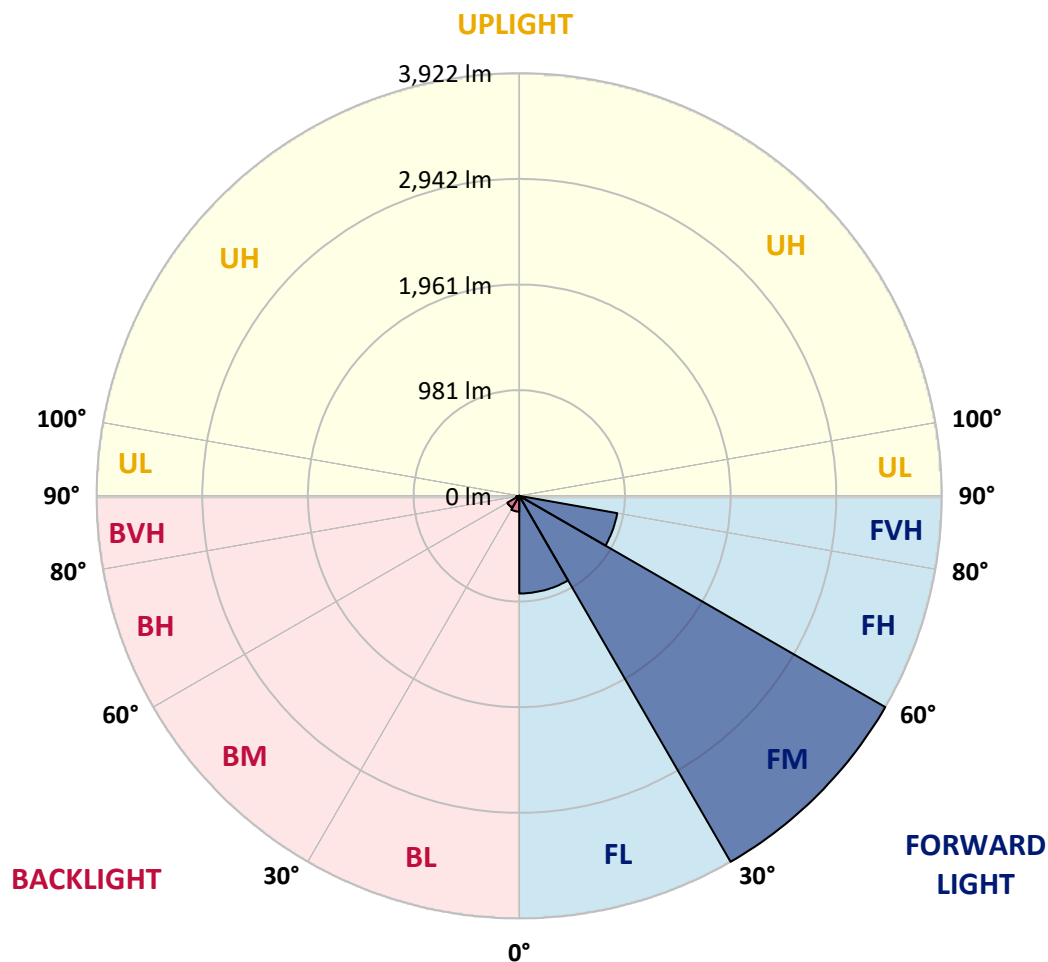
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 906.2  | 14.9      |                         |      |         |
| FM   | (30°-60°)   | 3922.4 | 64.7      |                         |      |         |
| FH   | (60°-80°)   | 923.2  | 15.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 7.8    | 0.1       |                         |      | G0/10   |
| BL   | (0°-30°)    | 147.2  | 2.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 127.1  | 2.1       | B0/220                  |      |         |
| BH   | (60°-80°)   | 27.9   | 0.5       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.3    | 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°    | 1357.6 | 1357.6 | 1357.6 | 1357.6 | 1357.6 | 1357.6 | 1357.6 | 1357.6 | 1357.6 | 1357.6 | 1357.6 |
| 2.5°  | 1703.7 | 1678.3 | 1679.1 | 1667.6 | 1625.5 | 1592.5 | 1558.2 | 1550.1 | 1496.7 | 1440.6 | 1386.7 |
| 5°    | 1998.2 | 1979.7 | 1975.2 | 1953.0 | 1894.3 | 1832.3 | 1765.8 | 1750.3 | 1645.9 | 1531.2 | 1418.4 |
| 7.5°  | 2149.6 | 2149.8 | 2146.2 | 2138.0 | 2101.4 | 2041.2 | 1960.0 | 1943.8 | 1801.6 | 1629.6 | 1451.4 |
| 10°   | 2105.6 | 2115.5 | 2135.9 | 2162.9 | 2190.9 | 2183.3 | 2122.3 | 2107.7 | 1953.2 | 1733.8 | 1488.0 |
| 12.5° | 2003.0 | 2004.3 | 2027.0 | 2071.3 | 2151.9 | 2234.6 | 2235.7 | 2230.7 | 2098.0 | 1842.7 | 1528.3 |
| 15°   | 1951.9 | 1956.9 | 1965.3 | 1993.8 | 2070.2 | 2202.7 | 2297.5 | 2304.5 | 2230.7 | 1958.5 | 1571.3 |
| 17.5° | 1985.4 | 1992.5 | 1985.4 | 1988.8 | 2033.1 | 2152.2 | 2308.2 | 2326.3 | 2346.7 | 2072.9 | 1611.8 |
| 20°   | 2076.3 | 2082.8 | 2070.2 | 2056.4 | 2065.0 | 2137.5 | 2300.6 | 2325.0 | 2437.5 | 2174.4 | 1645.9 |
| 22.5° | 2198.8 | 2201.4 | 2182.3 | 2159.5 | 2153.2 | 2187.3 | 2306.9 | 2332.0 | 2510.3 | 2266.3 | 1667.3 |
| 25°   | 2333.6 | 2336.0 | 2312.1 | 2286.0 | 2271.0 | 2284.9 | 2358.5 | 2377.3 | 2574.4 | 2354.0 | 1679.6 |
| 27.5° | 2480.5 | 2482.6 | 2452.7 | 2420.5 | 2403.2 | 2403.8 | 2443.6 | 2463.7 | 2642.8 | 2454.0 | 1689.6 |
| 30°   | 2635.7 | 2634.7 | 2607.2 | 2562.4 | 2540.4 | 2539.9 | 2566.1 | 2586.5 | 2741.7 | 2582.3 | 1703.2 |
| 32.5° | 2810.1 | 2808.0 | 2769.0 | 2713.5 | 2688.6 | 2692.3 | 2715.6 | 2727.3 | 2864.5 | 2719.0 | 1727.6 |
| 35°   | 3039.6 | 3033.6 | 2974.7 | 2905.9 | 2860.1 | 2858.8 | 2878.8 | 2887.8 | 3021.1 | 2884.4 | 1768.1 |
| 37.5° | 3337.6 | 3332.1 | 3252.2 | 3152.2 | 3087.8 | 3063.7 | 3087.0 | 3099.1 | 3244.4 | 3096.7 | 1833.3 |
| 40°   | 3631.3 | 3625.8 | 3578.4 | 3486.8 | 3387.6 | 3329.7 | 3348.0 | 3360.9 | 3523.2 | 3354.3 | 1915.5 |
| 42.5° | 3833.9 | 3838.6 | 3855.1 | 3862.7 | 3769.8 | 3648.3 | 3656.7 | 3670.0 | 3816.1 | 3629.7 | 2009.5 |
| 45°   | 3887.3 | 3897.5 | 3990.7 | 4173.7 | 4208.5 | 4113.8 | 4026.1 | 4033.4 | 4113.8 | 3905.1 | 2103.5 |
| 47.5° | 3726.8 | 3745.7 | 3925.5 | 4265.9 | 4560.6 | 4627.7 | 4461.7 | 4452.0 | 4399.4 | 4127.9 | 2170.2 |
| 50°   | 3362.2 | 3379.5 | 3612.4 | 4115.9 | 4667.5 | 5118.3 | 4983.7 | 4955.2 | 4649.9 | 4261.2 | 2193.8 |
| 52.5° | 2834.4 | 2855.3 | 3044.6 | 3643.6 | 4466.1 | 5337.1 | 5478.0 | 5454.1 | 4833.7 | 4271.6 | 2197.7 |
| 55°   | 2001.6 | 2027.0 | 2227.3 | 2792.5 | 3828.2 | 5163.0 | 5653.1 | 5646.0 | 4986.3 | 4243.9 | 2206.1 |
| 57.5° | 1124.9 | 1143.2 | 1359.2 | 1790.1 | 2803.8 | 4497.0 | 5470.1 | 5517.0 | 5078.5 | 4195.7 | 2218.7 |
| 60°   | 499.5  | 504.5  | 616.3  | 891.1  | 1641.4 | 3436.8 | 4946.3 | 5025.3 | 4999.4 | 4131.3 | 2239.9 |
| 62.5° | 277.0  | 272.8  | 272.8  | 370.4  | 713.4  | 2127.6 | 4033.4 | 4164.0 | 4662.0 | 4055.1 | 2240.9 |
| 65°   | 217.0  | 213.1  | 201.8  | 203.4  | 271.7  | 944.3  | 2793.0 | 3025.2 | 4021.1 | 3831.8 | 2165.5 |
| 67.5° | 184.0  | 180.6  | 169.4  | 164.9  | 168.9  | 311.5  | 1534.6 | 1775.7 | 3051.2 | 3251.4 | 1875.7 |
| 70°   | 155.5  | 153.1  | 147.4  | 141.9  | 131.9  | 153.9  | 587.2  | 751.1  | 1880.2 | 2162.9 | 1280.4 |
| 72.5° | 125.1  | 124.1  | 126.2  | 121.5  | 109.4  | 102.6  | 200.8  | 243.2  | 844.5  | 965.2  | 527.5  |
| 75°   | 107.9  | 107.3  | 108.4  | 103.7  | 90.1   | 71.5   | 102.1  | 111.5  | 238.2  | 236.1  | 106.8  |
| 77.5° | 70.2   | 70.9   | 89.8   | 87.7   | 77.5   | 47.6   | 52.9   | 57.1   | 72.3   | 54.2   | 32.5   |
| 80°   | 44.8   | 44.2   | 45.6   | 72.8   | 69.6   | 36.4   | 26.4   | 27.7   | 34.8   | 26.7   | 15.7   |
| 82.5° | 27.2   | 26.7   | 29.8   | 34.0   | 35.1   | 25.4   | 16.2   | 16.5   | 21.7   | 17.3   | 8.4    |
| 85°   | 2.4    | 3.1    | 18.1   | 16.8   | 12.0   | 7.9    | 7.9    | 8.4    | 11.5   | 10.2   | 4.7    |
| 87.5° | 0.0    | 0.0    | 3.1    | 4.7    | 2.6    | 2.9    | 2.9    | 3.1    | 4.5    | 4.5    | 2.4    |
| 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°    | 1357.6 | 1357.6 | 1357.6 | 1357.6 | 1357.6 | 1357.6 | 1357.6 | 1357.6 | 1357.6 | 1357.6 | 1357.6 |
| 2.5°  | 1358.7 | 1331.5 | 1276.5 | 1223.6 | 1178.8 | 1135.6 | 1086.4 | 1037.7 | 1015.0 | 1005.8 | 996.4  |
| 5°    | 1361.0 | 1305.0 | 1191.7 | 1077.5 | 959.2  | 852.7  | 761.8  | 668.6  | 622.0  | 601.6  | 592.2  |
| 7.5°  | 1364.2 | 1278.8 | 1095.6 | 904.0  | 713.4  | 568.9  | 442.7  | 361.5  | 326.5  | 321.0  | 307.3  |
| 10°   | 1364.7 | 1247.2 | 984.1  | 712.3  | 478.3  | 342.9  | 263.9  | 222.0  | 206.6  | 203.9  | 199.5  |
| 12.5° | 1365.8 | 1209.7 | 860.2  | 527.5  | 318.9  | 229.3  | 190.8  | 177.0  | 172.8  | 172.5  | 172.5  |
| 15°   | 1368.9 | 1170.5 | 731.7  | 380.1  | 229.1  | 181.7  | 167.5  | 162.0  | 160.5  | 161.3  | 161.0  |
| 17.5° | 1368.9 | 1124.1 | 605.5  | 283.3  | 185.1  | 163.4  | 155.5  | 151.8  | 151.3  | 152.1  | 152.4  |
| 20°   | 1359.0 | 1067.8 | 489.8  | 220.4  | 164.1  | 151.6  | 144.5  | 141.1  | 139.8  | 140.3  | 140.6  |
| 22.5° | 1335.1 | 998.7  | 395.6  | 182.5  | 150.3  | 140.8  | 133.3  | 128.0  | 125.9  | 126.2  | 126.2  |
| 25°   | 1298.0 | 916.8  | 309.4  | 157.9  | 139.0  | 129.3  | 120.4  | 114.4  | 113.1  | 112.8  | 113.4  |
| 27.5° | 1250.3 | 826.2  | 246.3  | 139.0  | 125.7  | 116.5  | 107.6  | 102.6  | 101.6  | 101.8  | 102.1  |
| 30°   | 1203.5 | 732.2  | 194.2  | 123.0  | 110.7  | 102.1  | 95.3   | 92.9   | 92.9   | 93.7   | 94.0   |
| 32.5° | 1160.5 | 641.9  | 153.7  | 109.2  | 97.4   | 89.5   | 85.6   | 85.3   | 86.7   | 87.2   | 87.4   |
| 35°   | 1123.6 | 558.4  | 127.2  | 98.4   | 86.9   | 80.1   | 78.8   | 79.8   | 81.4   | 82.5   | 82.7   |
| 37.5° | 1097.4 | 483.8  | 111.3  | 89.5   | 78.8   | 73.3   | 73.0   | 75.1   | 77.2   | 79.6   | 80.1   |
| 40°   | 1086.4 | 420.7  | 100.3  | 81.7   | 72.3   | 68.1   | 67.3   | 70.2   | 74.1   | 77.5   | 78.0   |
| 42.5° | 1077.3 | 369.1  | 90.8   | 74.1   | 67.0   | 61.0   | 60.7   | 64.4   | 69.1   | 72.5   | 73.3   |
| 45°   | 1069.4 | 327.8  | 82.2   | 66.0   | 60.2   | 52.4   | 53.1   | 57.9   | 61.5   | 65.2   | 66.0   |
| 47.5° | 1053.2 | 293.7  | 72.8   | 57.3   | 49.7   | 44.8   | 46.3   | 50.5   | 53.4   | 58.9   | 59.7   |
| 50°   | 1024.1 | 266.0  | 63.1   | 46.9   | 40.6   | 38.7   | 41.1   | 44.0   | 47.6   | 52.4   | 52.9   |
| 52.5° | 1004.5 | 245.0  | 54.7   | 39.3   | 33.5   | 34.0   | 36.4   | 37.4   | 39.5   | 41.4   | 40.8   |
| 55°   | 993.2  | 233.5  | 47.9   | 34.0   | 28.5   | 30.1   | 30.6   | 29.3   | 28.3   | 26.4   | 25.7   |
| 57.5° | 991.9  | 223.0  | 42.7   | 29.6   | 25.1   | 25.9   | 24.1   | 19.6   | 16.0   | 13.9   | 13.4   |
| 60°   | 989.8  | 210.2  | 38.5   | 24.9   | 22.3   | 21.2   | 17.3   | 10.7   | 7.6    | 7.1    | 7.1    |
| 62.5° | 967.1  | 190.3  | 35.3   | 20.9   | 18.8   | 16.0   | 9.9    | 5.0    | 4.2    | 4.5    | 4.5    |
| 65°   | 894.5  | 162.6  | 32.2   | 17.0   | 14.9   | 11.5   | 5.0    | 2.9    | 1.6    | 1.8    | 1.8    |
| 67.5° | 760.5  | 129.6  | 28.8   | 13.1   | 11.3   | 7.3    | 2.9    | 1.3    | 0.0    | 0.0    | 0.0    |
| 70°   | 509.2  | 80.4   | 24.3   | 9.2    | 7.3    | 4.5    | 2.1    | 0.3    | 0.0    | 0.0    | 0.0    |
| 72.5° | 195.3  | 43.5   | 19.6   | 5.5    | 4.7    | 3.1    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 44.0   | 28.5   | 13.6   | 3.9    | 3.4    | 2.1    | 0.5    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 16.8   | 20.7   | 7.9    | 2.6    | 2.4    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 8.1    | 12.3   | 3.7    | 1.6    | 1.3    | 0.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 4.2    | 4.7    | 1.6    | 0.8    | 0.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 2.4    | 2.4    | 0.8    | 0.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 1.3    | 0.8    | 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)