

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: P191919

Luminaire Tested: **GAN-AF-01-LED-U-SL3-7050-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191919  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-01-LED-U-SL3-7050-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4302 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
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

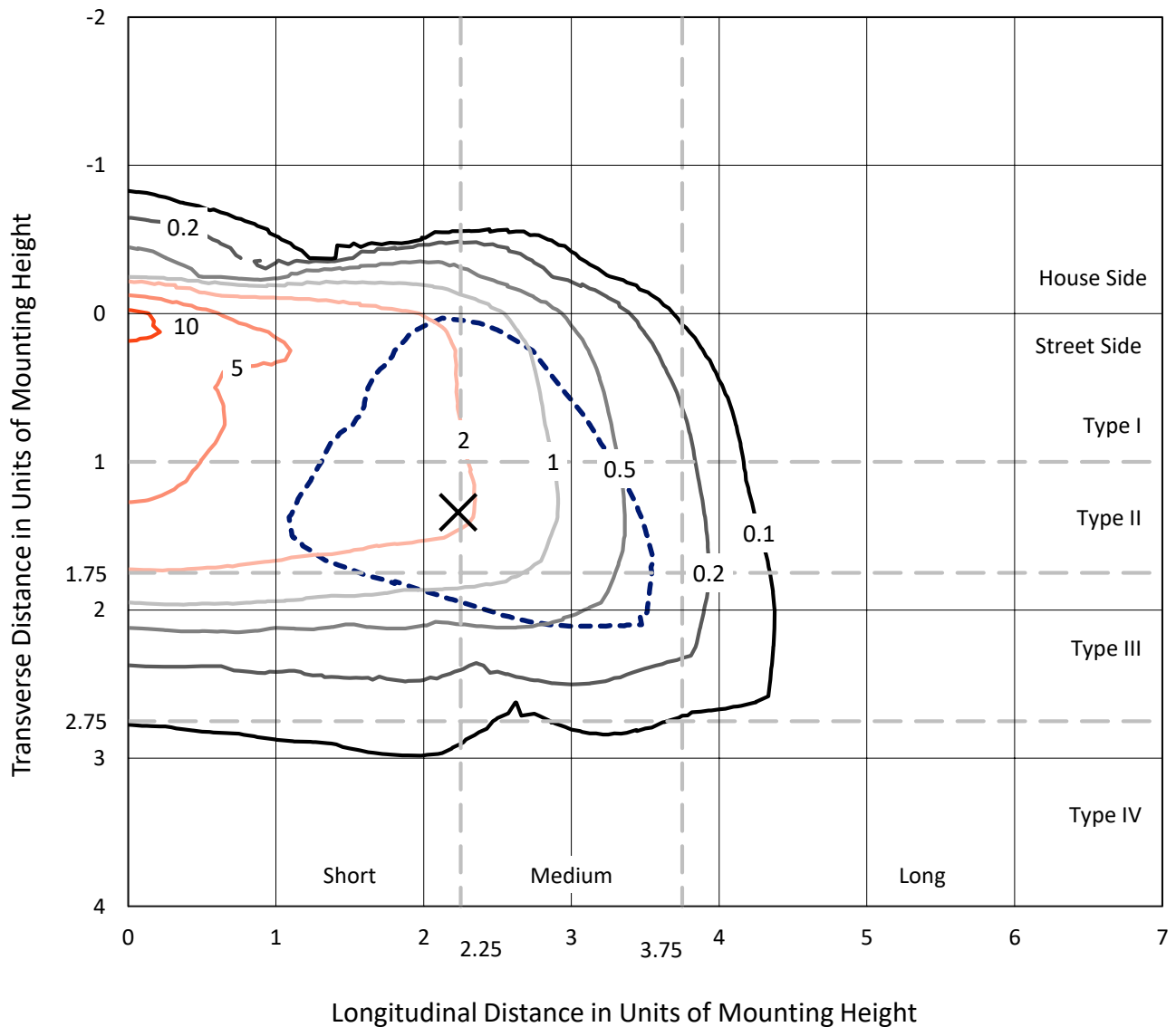


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

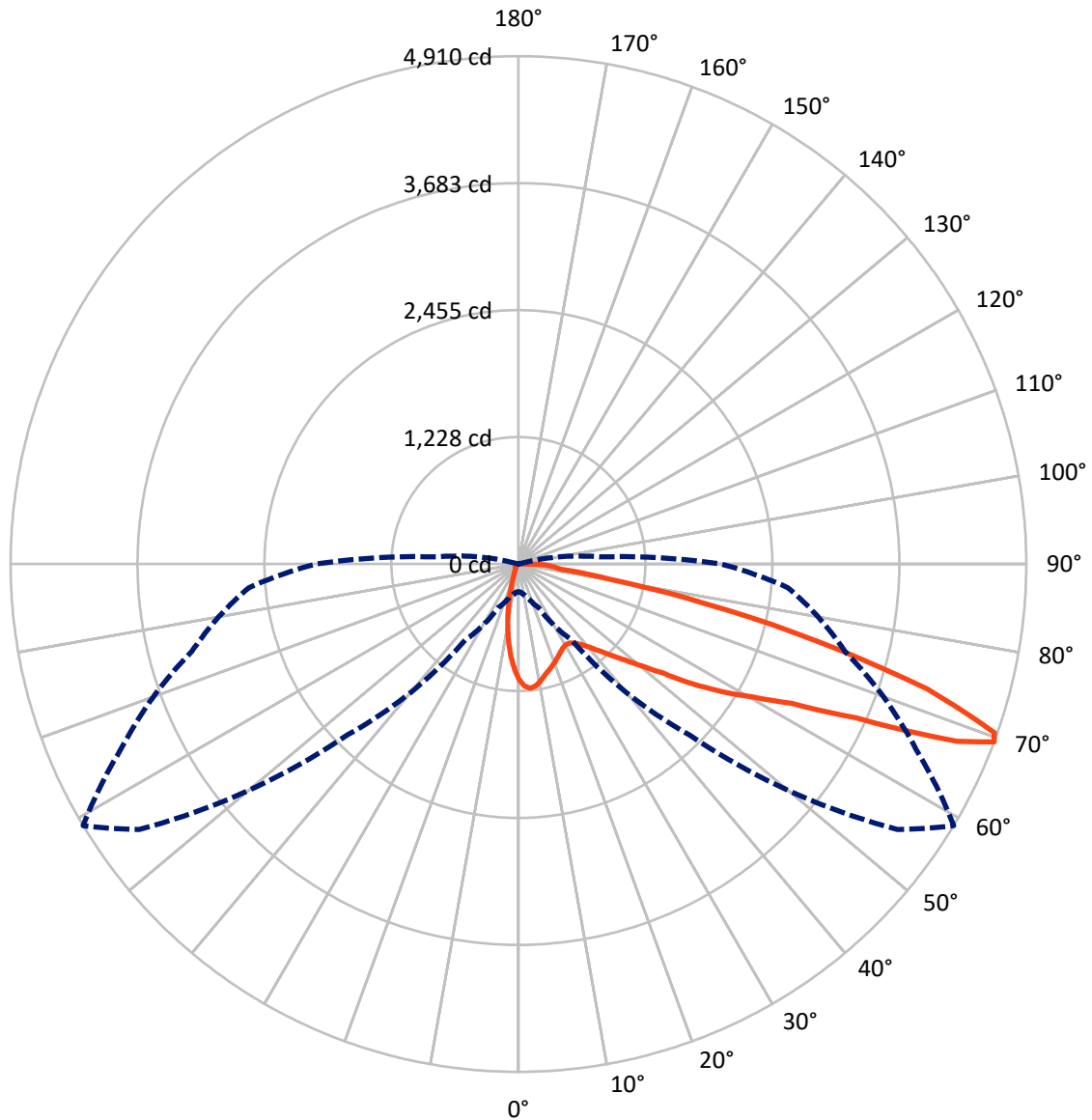


Based on 10 foot mounting height. Maximum calculated value = 11.3 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical



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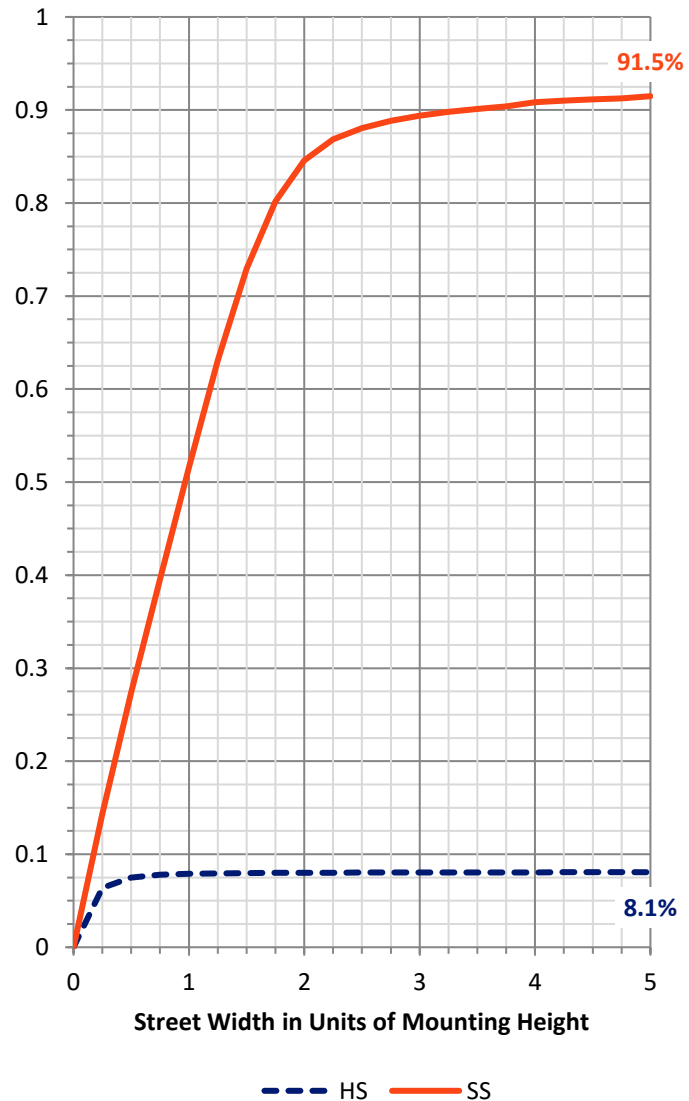
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 350.3    | 0.0    | 350.3  |
|                    | % Fixture | 8.1      | 0.0    | 8.1    |
| <b>Street Side</b> | Lumens    | 3951.7   | 0.0    | 3951.7 |
|                    | % Fixture | 91.9     | 0.0    | 91.9   |
| <b>Total</b>       | Lumens    | 4302.0   | 0.0    | 4302.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 90.9   | 2.1       |
| 10°-20°   | 187.8  | 4.4       |
| 20°-30°   | 252.7  | 5.9       |
| 30°-40°   | 366.9  | 8.5       |
| 40°-50°   | 611.0  | 14.2      |
| 50°-60°   | 953.1  | 22.2      |
| 60°-70°   | 1179.4 | 27.4      |
| 70°-80°   | 597.7  | 13.9      |
| 80°-90°   | 62.5   | 1.5       |
| 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°    | 4302.0 | 100.0     |
| 0°-180°   | 4302.0 | 100.0     |



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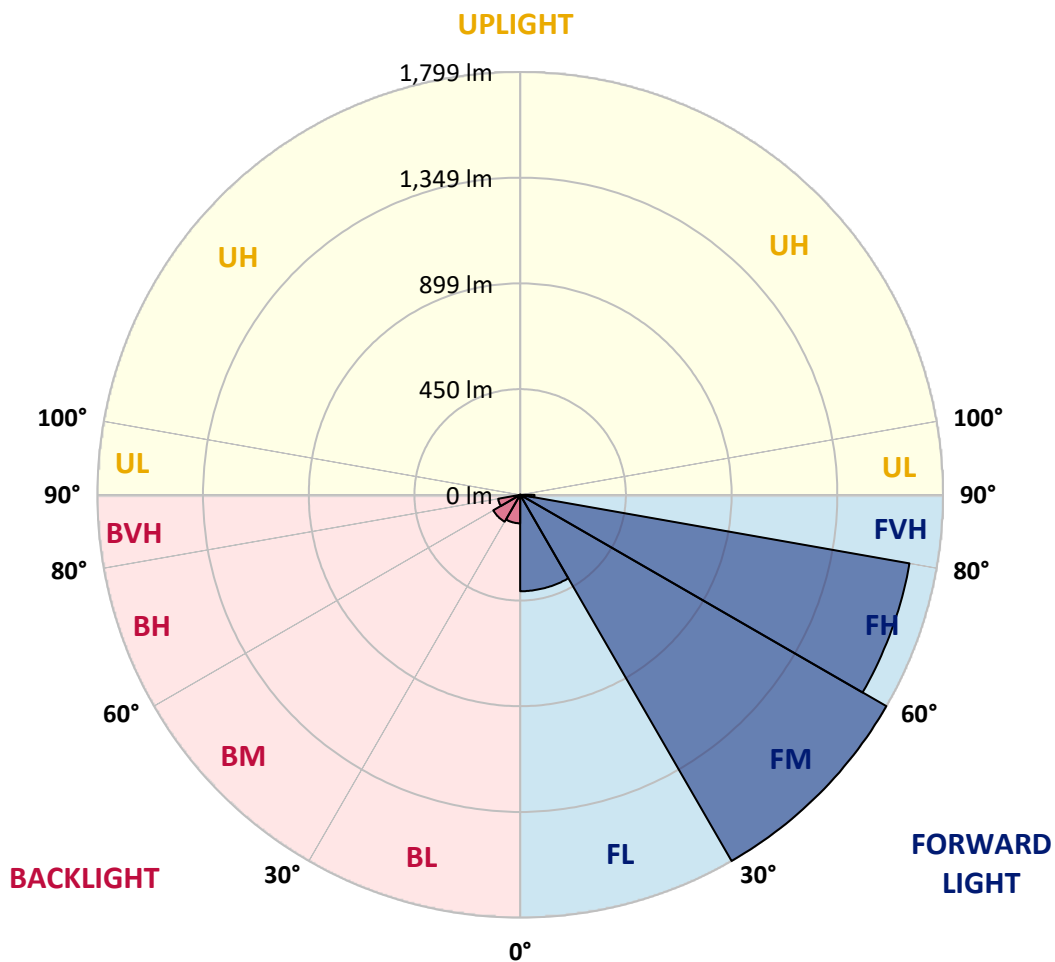
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 410.2  | 9.5       |                         |      |         |
| FM   | (30°-60°)   | 1799.0 | 41.8      |                         |      |         |
| FH   | (60°-80°)   | 1681.9 | 39.1      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 60.6   | 1.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 121.3  | 2.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 132.0  | 3.1       | B0/220                  |      |         |
| BH   | (60°-80°)   | 95.1   | 2.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.9    | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 59°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1119.8 | 1119.8 | 1119.8 | 1119.8 | 1119.8 | 1119.8 | 1119.8 | 1119.8 | 1119.8 | 1119.8 | 1119.8 |
| 2.5°  | 1227.3 | 1226.8 | 1221.4 | 1219.0 | 1214.6 | 1205.4 | 1191.0 | 1183.5 | 1171.3 | 1150.2 | 1121.7 |
| 5°    | 1216.1 | 1221.9 | 1225.1 | 1225.3 | 1228.5 | 1225.1 | 1212.2 | 1205.9 | 1189.1 | 1155.0 | 1103.9 |
| 7.5°  | 1140.2 | 1142.4 | 1151.4 | 1159.2 | 1174.2 | 1188.6 | 1193.2 | 1190.5 | 1180.6 | 1144.1 | 1076.2 |
| 10°   | 1058.9 | 1061.1 | 1071.8 | 1082.0 | 1102.5 | 1124.6 | 1148.0 | 1152.8 | 1157.0 | 1128.5 | 1049.4 |
| 12.5° | 988.9  | 991.1  | 1002.0 | 1015.4 | 1039.2 | 1066.5 | 1102.7 | 1110.8 | 1129.0 | 1113.7 | 1028.0 |
| 15°   | 928.5  | 929.5  | 940.2  | 956.8  | 985.2  | 1020.3 | 1061.4 | 1074.3 | 1102.2 | 1103.2 | 1009.3 |
| 17.5° | 877.2  | 879.6  | 886.2  | 902.0  | 933.2  | 976.5  | 1024.4 | 1042.9 | 1075.7 | 1094.5 | 991.1  |
| 20°   | 845.8  | 848.3  | 848.0  | 856.8  | 884.8  | 931.0  | 987.4  | 1009.6 | 1049.4 | 1085.5 | 974.8  |
| 22.5° | 839.8  | 839.8  | 833.4  | 832.2  | 848.8  | 887.4  | 949.0  | 976.0  | 1025.9 | 1081.6 | 963.3  |
| 25°   | 861.4  | 860.4  | 844.6  | 831.7  | 832.5  | 855.6  | 911.8  | 943.9  | 1005.9 | 1084.2 | 957.2  |
| 27.5° | 907.1  | 905.9  | 886.0  | 861.4  | 841.7  | 841.5  | 883.5  | 918.1  | 990.1  | 1096.9 | 959.7  |
| 30°   | 970.4  | 969.9  | 948.2  | 917.4  | 881.6  | 848.8  | 873.8  | 905.2  | 979.9  | 1119.8 | 965.3  |
| 32.5° | 1039.5 | 1038.7 | 1022.4 | 989.8  | 944.6  | 881.6  | 884.0  | 910.3  | 982.8  | 1150.2 | 978.9  |
| 35°   | 1112.7 | 1111.5 | 1104.4 | 1076.0 | 1026.1 | 942.2  | 917.6  | 938.0  | 1001.3 | 1195.6 | 1005.7 |
| 37.5° | 1192.0 | 1193.2 | 1198.3 | 1171.1 | 1118.8 | 1027.1 | 973.8  | 987.7  | 1038.5 | 1257.4 | 1049.2 |
| 40°   | 1309.0 | 1308.8 | 1310.5 | 1274.7 | 1224.4 | 1130.9 | 1052.4 | 1056.7 | 1100.8 | 1339.4 | 1115.4 |
| 42.5° | 1521.4 | 1506.5 | 1461.5 | 1388.6 | 1338.0 | 1249.7 | 1151.4 | 1146.8 | 1176.9 | 1440.9 | 1208.1 |
| 45°   | 1806.7 | 1775.1 | 1658.3 | 1518.5 | 1453.8 | 1383.5 | 1273.3 | 1258.4 | 1277.6 | 1562.7 | 1322.4 |
| 47.5° | 2052.2 | 2019.3 | 1854.2 | 1653.7 | 1576.6 | 1510.4 | 1416.0 | 1389.3 | 1395.6 | 1699.2 | 1467.4 |
| 50°   | 2135.6 | 2119.6 | 1975.3 | 1771.5 | 1695.6 | 1670.3 | 1581.7 | 1549.1 | 1540.1 | 1857.1 | 1635.5 |
| 52.5° | 2106.7 | 2105.5 | 2009.4 | 1847.8 | 1804.5 | 1835.7 | 1790.2 | 1752.5 | 1719.4 | 2023.5 | 1806.5 |
| 55°   | 2060.2 | 2066.3 | 2023.2 | 1914.7 | 1913.3 | 1986.7 | 2075.3 | 2043.9 | 1948.1 | 2204.2 | 1953.9 |
| 57.5° | 1932.0 | 1958.0 | 2015.5 | 2041.2 | 2101.1 | 2176.3 | 2312.7 | 2331.2 | 2217.9 | 2342.6 | 2076.3 |
| 60°   | 1567.6 | 1624.8 | 1812.6 | 2059.5 | 2343.1 | 2530.4 | 2599.3 | 2615.1 | 2439.2 | 2457.7 | 2241.4 |
| 62.5° | 1112.7 | 1171.1 | 1409.2 | 1826.9 | 2346.8 | 2995.8 | 3026.2 | 2964.2 | 2683.0 | 2628.2 | 2526.3 |
| 65°   | 590.6  | 635.7  | 830.3  | 1318.7 | 2034.7 | 3103.8 | 3772.8 | 3587.9 | 3113.1 | 2963.7 | 2894.4 |
| 67.5° | 302.1  | 315.8  | 393.1  | 645.4  | 1398.8 | 2756.9 | 4442.0 | 4572.2 | 3854.3 | 3296.5 | 2876.6 |
| 69°   | 267.3  | 275.4  | 326.7  | 466.6  | 895.7  | 2335.1 | 4474.6 | 4910.1 | 4242.3 | 3268.8 | 2614.1 |
| 70°   | 258.8  | 265.9  | 312.6  | 422.3  | 700.1  | 1958.3 | 4349.8 | 4880.4 | 4341.6 | 3163.2 | 2418.1 |
| 72.5° | 219.7  | 225.8  | 278.3  | 373.2  | 569.0  | 972.1  | 3533.4 | 4135.5 | 3895.9 | 2635.1 | 1750.3 |
| 75°   | 146.9  | 166.9  | 267.1  | 349.8  | 529.3  | 552.2  | 2329.5 | 2988.5 | 2776.1 | 1777.3 | 911.8  |
| 77.5° | 35.3   | 37.9   | 75.4   | 278.3  | 484.1  | 486.0  | 1198.1 | 1857.8 | 1515.3 | 633.5  | 215.5  |
| 80°   | 19.0   | 18.2   | 21.2   | 55.2   | 450.8  | 456.1  | 539.3  | 901.8  | 541.0  | 105.1  | 71.0   |
| 82.5° | 13.4   | 12.6   | 13.6   | 23.1   | 141.8  | 415.5  | 390.2  | 408.2  | 224.3  | 40.4   | 31.9   |
| 85°   | 4.9    | 4.6    | 7.5    | 20.9   | 44.5   | 238.9  | 400.9  | 336.7  | 181.7  | 18.5   | 23.4   |
| 87.5° | 1.7    | 1.5    | 2.9    | 11.4   | 13.6   | 101.7  | 247.4  | 254.5  | 71.5   | 11.2   | 10.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P191919

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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1119.8 | 1119.8 | 1119.8 | 1119.8 | 1119.8 | 1119.8 | 1119.8 | 1119.8 | 1119.8 | 1119.8 | 1119.8 |
| 2.5°  | 1109.8 | 1094.7 | 1067.0 | 1038.5 | 1012.2 | 980.6  | 964.8  | 949.2  | 942.7  | 940.2  | 928.8  |
| 5°    | 1077.7 | 1052.1 | 993.3  | 934.1  | 879.6  | 821.8  | 783.6  | 752.9  | 734.9  | 726.1  | 712.3  |
| 7.5°  | 1036.6 | 994.7  | 905.4  | 814.2  | 729.3  | 645.6  | 583.6  | 535.9  | 503.1  | 487.3  | 472.9  |
| 10°   | 996.7  | 941.0  | 814.0  | 689.7  | 574.3  | 463.4  | 377.8  | 315.8  | 276.1  | 257.9  | 246.2  |
| 12.5° | 960.9  | 888.6  | 725.7  | 568.3  | 423.5  | 293.6  | 206.5  | 157.1  | 132.6  | 124.1  | 119.9  |
| 15°   | 929.0  | 840.5  | 642.2  | 453.0  | 286.8  | 167.9  | 112.9  | 96.1   | 92.2   | 92.2   | 91.7   |
| 17.5° | 898.9  | 793.3  | 561.7  | 344.7  | 180.0  | 102.7  | 85.9   | 83.7   | 83.7   | 84.7   | 84.7   |
| 20°   | 869.9  | 748.3  | 483.9  | 247.4  | 113.4  | 81.5   | 77.6   | 77.1   | 77.6   | 78.8   | 78.8   |
| 22.5° | 845.1  | 707.4  | 411.1  | 169.8  | 84.2   | 73.5   | 71.5   | 70.8   | 71.0   | 71.8   | 72.2   |
| 25°   | 826.6  | 672.9  | 342.5  | 115.1  | 72.5   | 66.9   | 64.7   | 63.5   | 62.5   | 62.5   | 63.0   |
| 27.5° | 814.9  | 643.7  | 276.1  | 83.7   | 65.2   | 60.8   | 57.4   | 55.5   | 53.3   | 52.1   | 52.5   |
| 30°   | 806.4  | 615.9  | 213.8  | 68.4   | 58.4   | 54.0   | 49.6   | 46.5   | 43.3   | 41.8   | 42.3   |
| 32.5° | 803.3  | 593.6  | 159.8  | 60.3   | 52.3   | 47.4   | 42.1   | 37.9   | 34.5   | 33.3   | 33.6   |
| 35°   | 811.8  | 575.8  | 117.0  | 54.5   | 47.4   | 41.4   | 35.3   | 30.7   | 28.0   | 27.2   | 27.5   |
| 37.5° | 834.2  | 566.3  | 87.6   | 49.6   | 43.1   | 36.2   | 29.4   | 25.1   | 23.4   | 23.4   | 23.6   |
| 40°   | 876.5  | 566.1  | 70.3   | 46.2   | 39.2   | 31.4   | 24.3   | 21.2   | 20.2   | 20.7   | 20.9   |
| 42.5° | 938.3  | 579.0  | 61.3   | 43.1   | 35.8   | 26.8   | 20.2   | 18.0   | 17.8   | 18.2   | 18.5   |
| 45°   | 1022.7 | 602.6  | 56.4   | 40.4   | 32.1   | 22.4   | 17.0   | 15.6   | 15.6   | 16.3   | 16.5   |
| 47.5° | 1126.1 | 637.1  | 52.3   | 37.7   | 28.5   | 18.7   | 14.6   | 13.6   | 13.9   | 14.6   | 14.8   |
| 50°   | 1250.6 | 680.7  | 48.2   | 34.8   | 25.8   | 15.6   | 12.6   | 11.9   | 12.2   | 13.1   | 13.4   |
| 52.5° | 1392.5 | 739.3  | 44.8   | 32.1   | 22.4   | 12.9   | 10.7   | 10.2   | 10.7   | 11.7   | 11.9   |
| 55°   | 1514.1 | 791.8  | 40.6   | 29.9   | 18.0   | 10.7   | 8.8    | 8.8    | 9.2    | 10.5   | 10.7   |
| 57.5° | 1631.1 | 846.8  | 37.0   | 25.8   | 14.1   | 8.5    | 7.3    | 7.5    | 8.3    | 9.5    | 9.7    |
| 60°   | 1802.8 | 940.0  | 32.6   | 21.7   | 10.7   | 6.8    | 6.1    | 6.3    | 7.3    | 8.5    | 8.8    |
| 62.5° | 2094.5 | 1081.8 | 28.2   | 18.0   | 8.3    | 5.4    | 4.9    | 5.4    | 6.6    | 8.0    | 8.3    |
| 65°   | 2357.7 | 1139.5 | 23.1   | 15.1   | 6.3    | 4.1    | 4.1    | 4.9    | 6.3    | 7.8    | 8.0    |
| 67.5° | 2211.0 | 959.2  | 18.0   | 11.9   | 4.9    | 3.2    | 3.4    | 4.6    | 6.1    | 7.8    | 8.0    |
| 69°   | 1955.4 | 784.3  | 15.3   | 9.5    | 4.1    | 2.9    | 3.2    | 4.6    | 6.1    | 7.5    | 7.8    |
| 70°   | 1756.1 | 662.2  | 13.6   | 8.0    | 3.6    | 2.9    | 3.2    | 4.4    | 6.1    | 7.5    | 7.8    |
| 72.5° | 1176.2 | 357.6  | 10.9   | 5.8    | 3.4    | 2.7    | 2.7    | 4.4    | 5.8    | 7.3    | 7.5    |
| 75°   | 505.5  | 98.8   | 8.8    | 4.1    | 2.9    | 2.4    | 2.4    | 4.1    | 5.6    | 7.1    | 7.5    |
| 77.5° | 92.4   | 25.1   | 7.1    | 3.6    | 2.9    | 2.4    | 2.2    | 3.9    | 5.4    | 6.8    | 7.1    |
| 80°   | 36.7   | 12.4   | 5.6    | 3.2    | 2.7    | 2.2    | 1.9    | 3.6    | 5.1    | 6.6    | 6.8    |
| 82.5° | 22.1   | 7.1    | 4.6    | 2.9    | 2.7    | 1.9    | 1.7    | 3.2    | 4.9    | 6.3    | 6.6    |
| 85°   | 18.0   | 4.9    | 3.6    | 2.9    | 2.4    | 1.9    | 1.5    | 2.9    | 4.4    | 6.1    | 6.3    |
| 87.5° | 8.8    | 3.4    | 3.4    | 2.7    | 2.4    | 1.9    | 1.5    | 2.7    | 4.1    | 5.8    | 6.1    |
| 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)