

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: P450251

Luminaire Tested: **GLAN-SA1A-740-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450251  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1A-740-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 615mA 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: 3791 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G0

Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

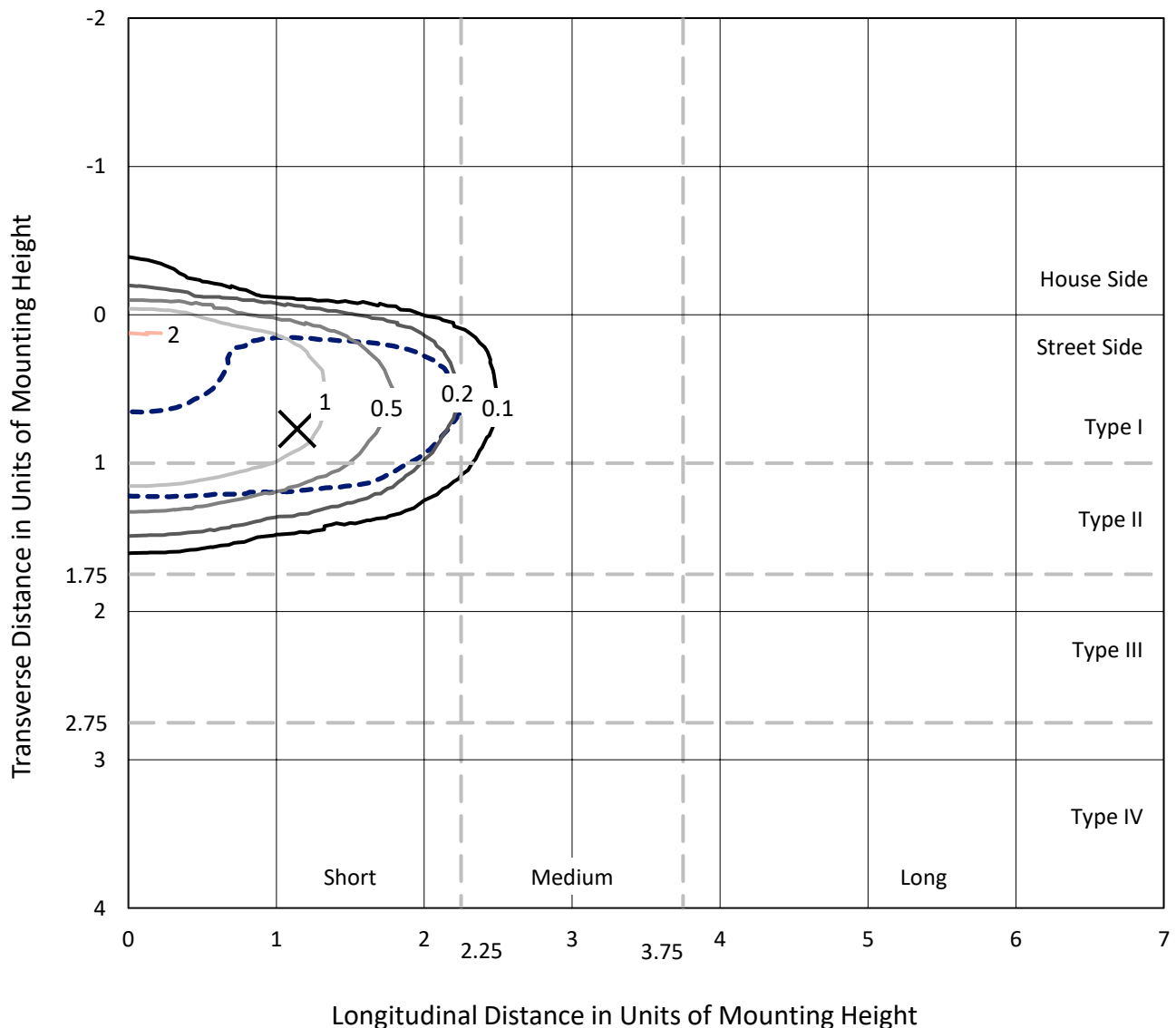


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## Iso-Footcandle Lines of Horizontal Illumination

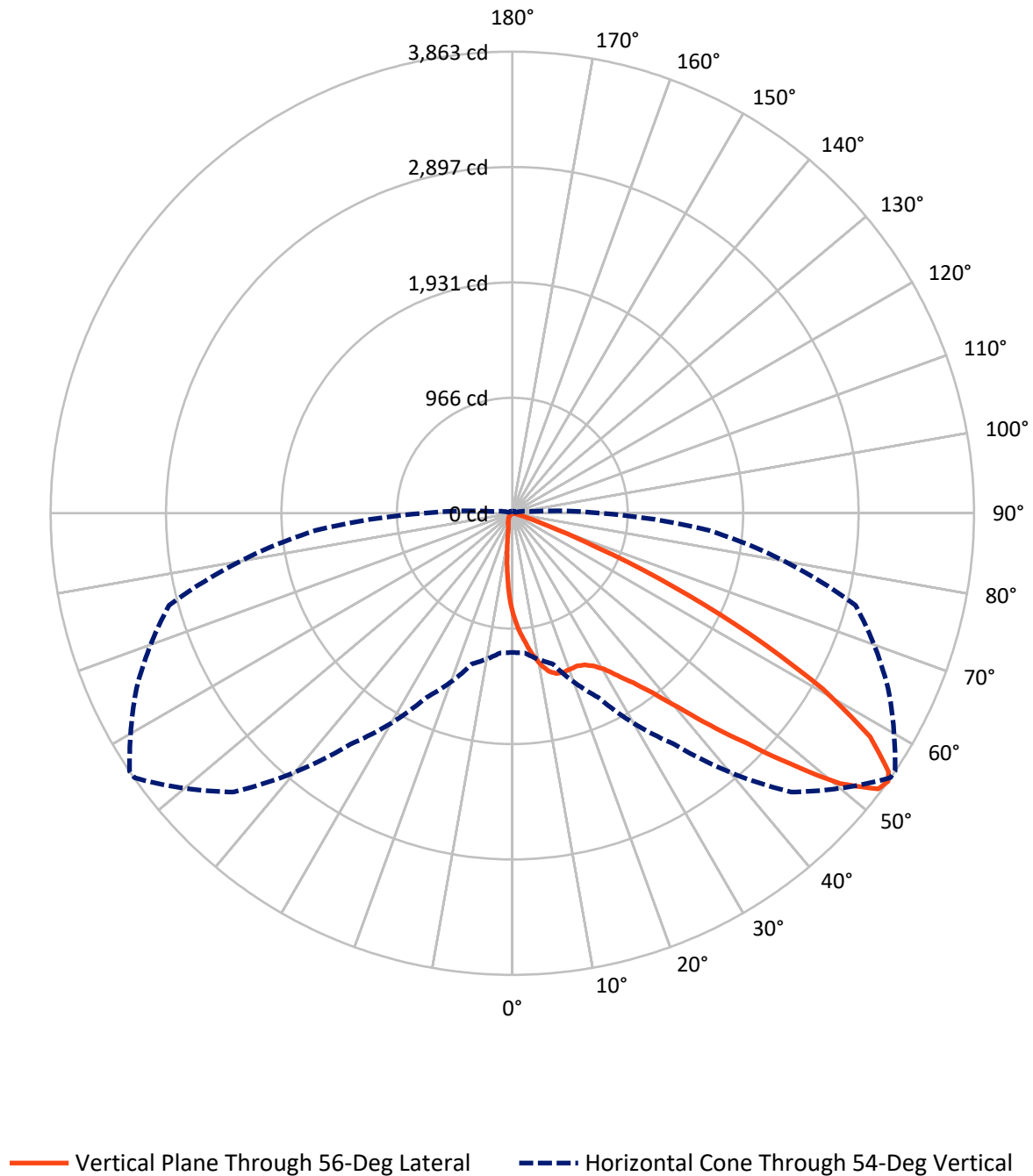
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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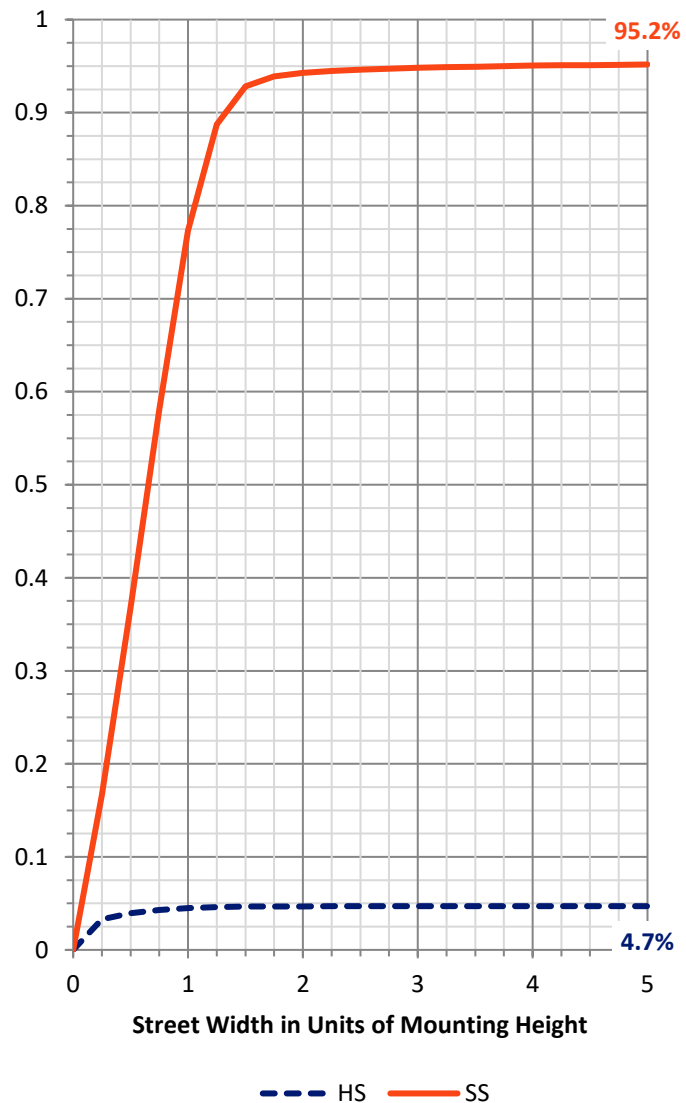
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 179.3    | 0.0    | 179.3  |
|                    | % Fixture | 4.7      | 0.0    | 4.7    |
| <b>Street Side</b> | Lumens    | 3611.7   | 0.0    | 3611.7 |
|                    | % Fixture | 95.3     | 0.0    | 95.3   |
| <b>Total</b>       | Lumens    | 3791.0   | 0.0    | 3791.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 74.4   | 2.0       |
| 10°-20°   | 201.2  | 5.3       |
| 20°-30°   | 348.5  | 9.2       |
| 30°-40°   | 601.5  | 15.9      |
| 40°-50°   | 1023.8 | 27.0      |
| 50°-60°   | 1013.2 | 26.7      |
| 60°-70°   | 462.4  | 12.2      |
| 70°-80°   | 59.4   | 1.6       |
| 80°-90°   | 6.7    | 0.2       |
| 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°    | 3791.0 | 100.0     |
| 0°-180°   | 3791.0 | 100.0     |

**Coefficient of Utilization**



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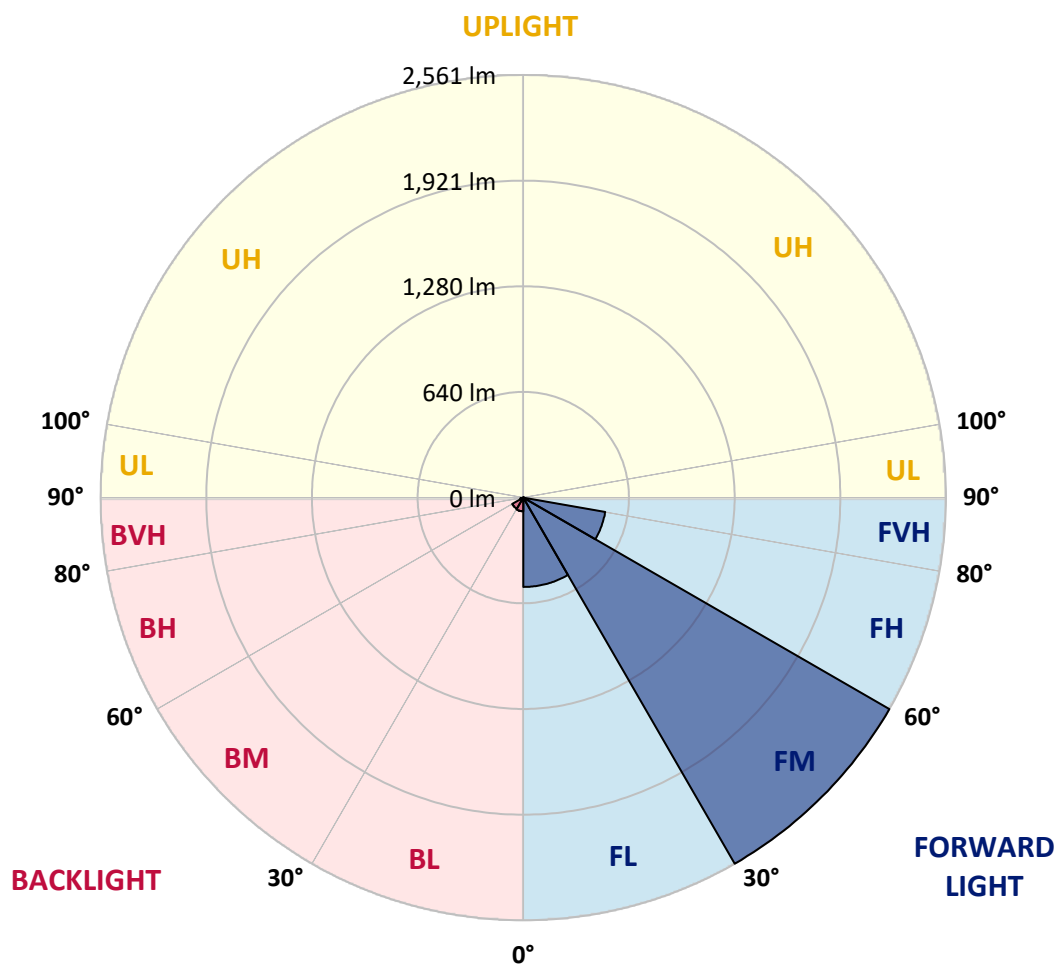
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 541.2  | 14.3      |                         |      |        |
| FM   | (30°-60°)   | 2560.7 | 67.5      |                         |      |        |
| FH   | (60°-80°)   | 503.9  | 13.3      |                         |      | G0/660 |
| FVH  | (80°-90°)   | 6.0    | 0.2       |                         |      | G0/10  |
| BL   | (0°-30°)    | 82.9   | 2.2       | B0/110                  |      |        |
| BM   | (30°-60°)   | 77.7   | 2.0       | B0/220                  |      |        |
| BH   | (60°-80°)   | 18.0   | 0.5       | B0/110                  |      | G0/110 |
| 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: B0-U0-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 842.3  | 842.3  | 842.3  | 842.3  | 842.3  | 842.3  | 842.3  | 842.3  | 842.3  | 842.3  | 842.3  |
| 2.5°  | 1070.4 | 1063.0 | 1052.8 | 1044.8 | 1026.1 | 999.3  | 970.9  | 970.9  | 943.5  | 905.4  | 866.5  |
| 5°    | 1234.6 | 1229.7 | 1219.8 | 1199.3 | 1178.3 | 1140.7 | 1083.7 | 1073.7 | 1024.9 | 955.8  | 883.2  |
| 7.5°  | 1301.4 | 1303.7 | 1304.2 | 1298.8 | 1288.8 | 1251.7 | 1195.2 | 1188.3 | 1110.3 | 1017.7 | 904.9  |
| 10°   | 1237.4 | 1248.7 | 1259.7 | 1281.9 | 1313.4 | 1322.3 | 1290.4 | 1283.2 | 1206.5 | 1080.4 | 928.4  |
| 12.5° | 1142.3 | 1148.4 | 1154.5 | 1189.6 | 1252.8 | 1325.1 | 1358.7 | 1358.4 | 1293.4 | 1142.8 | 958.4  |
| 15°   | 1098.0 | 1103.4 | 1103.9 | 1119.5 | 1174.2 | 1279.6 | 1387.8 | 1391.6 | 1378.3 | 1219.8 | 990.6  |
| 17.5° | 1107.2 | 1111.6 | 1108.0 | 1111.8 | 1140.5 | 1229.5 | 1384.5 | 1397.3 | 1447.1 | 1293.7 | 1019.8 |
| 20°   | 1167.3 | 1175.8 | 1162.0 | 1151.2 | 1159.9 | 1216.2 | 1373.2 | 1391.1 | 1495.7 | 1365.8 | 1046.4 |
| 22.5° | 1275.3 | 1279.9 | 1262.5 | 1233.1 | 1217.7 | 1244.1 | 1370.2 | 1387.8 | 1537.2 | 1424.9 | 1061.7 |
| 25°   | 1395.2 | 1393.7 | 1374.5 | 1341.5 | 1309.3 | 1300.3 | 1390.4 | 1406.2 | 1571.5 | 1478.1 | 1066.3 |
| 27.5° | 1515.2 | 1519.8 | 1487.6 | 1446.6 | 1408.0 | 1384.7 | 1435.6 | 1447.4 | 1610.1 | 1538.7 | 1071.9 |
| 30°   | 1654.6 | 1647.2 | 1615.4 | 1568.6 | 1524.4 | 1491.9 | 1508.5 | 1511.9 | 1663.3 | 1619.0 | 1086.8 |
| 32.5° | 1835.9 | 1815.5 | 1779.9 | 1698.1 | 1666.3 | 1611.4 | 1615.4 | 1619.5 | 1728.0 | 1698.6 | 1104.7 |
| 35°   | 2082.0 | 2080.9 | 2011.4 | 1901.1 | 1823.9 | 1755.6 | 1737.7 | 1741.0 | 1825.9 | 1816.7 | 1144.3 |
| 37.5° | 2378.2 | 2382.2 | 2303.0 | 2192.0 | 2049.7 | 1941.3 | 1904.5 | 1905.0 | 1974.8 | 1979.9 | 1204.7 |
| 40°   | 2619.3 | 2630.1 | 2582.8 | 2507.8 | 2367.4 | 2197.8 | 2135.9 | 2130.3 | 2184.0 | 2177.6 | 1290.9 |
| 42.5° | 2723.2 | 2733.2 | 2750.8 | 2776.9 | 2699.7 | 2559.7 | 2413.7 | 2421.4 | 2437.7 | 2393.0 | 1387.6 |
| 45°   | 2672.3 | 2688.1 | 2757.5 | 2918.6 | 2991.2 | 2944.2 | 2770.0 | 2743.1 | 2673.8 | 2627.0 | 1484.7 |
| 47.5° | 2460.3 | 2498.9 | 2614.7 | 2883.0 | 3137.3 | 3296.4 | 3172.1 | 3136.5 | 2910.2 | 2797.9 | 1546.6 |
| 50°   | 2111.6 | 2113.9 | 2275.3 | 2618.3 | 3061.6 | 3518.6 | 3582.6 | 3556.0 | 3130.4 | 2893.8 | 1577.8 |
| 52.5° | 1530.8 | 1581.2 | 1729.0 | 2126.2 | 2733.7 | 3484.9 | 3844.2 | 3833.2 | 3357.5 | 2942.9 | 1622.9 |
| 54°   | 1163.8 | 1173.5 | 1304.9 | 1699.1 | 2356.9 | 3299.4 | 3860.3 | 3862.9 | 3470.3 | 2972.6 | 1649.5 |
| 55°   | 954.0  | 930.7  | 1068.9 | 1447.4 | 2099.9 | 3135.5 | 3807.7 | 3819.9 | 3520.9 | 2987.9 | 1669.2 |
| 57.5° | 452.2  | 452.5  | 558.1  | 763.5  | 1315.2 | 2434.7 | 3485.6 | 3529.1 | 3526.6 | 3014.3 | 1729.8 |
| 60°   | 228.9  | 230.4  | 253.7  | 352.5  | 649.7  | 1618.5 | 2882.0 | 2985.6 | 3255.2 | 3018.1 | 1749.7 |
| 62.5° | 160.1  | 158.3  | 154.5  | 169.6  | 273.4  | 822.6  | 2145.7 | 2235.7 | 2765.6 | 2872.0 | 1686.3 |
| 65°   | 137.1  | 133.3  | 122.5  | 120.2  | 138.1  | 327.6  | 1336.4 | 1483.2 | 2111.6 | 2486.9 | 1505.7 |
| 67.5° | 117.1  | 115.6  | 105.9  | 100.0  | 97.7   | 142.7  | 689.6  | 766.8  | 1443.3 | 1787.6 | 1140.5 |
| 70°   | 99.5   | 98.7   | 92.8   | 85.4   | 79.0   | 85.4   | 255.8  | 316.9  | 804.4  | 962.5  | 538.1  |
| 72.5° | 80.8   | 81.6   | 82.6   | 73.2   | 66.5   | 60.6   | 109.2  | 127.1  | 336.6  | 344.0  | 188.2  |
| 75°   | 70.8   | 70.1   | 70.1   | 63.7   | 55.5   | 45.0   | 60.1   | 64.7   | 103.1  | 95.7   | 43.7   |
| 77.5° | 49.9   | 48.1   | 56.3   | 52.4   | 46.3   | 32.0   | 34.3   | 36.3   | 42.7   | 36.6   | 20.5   |
| 80°   | 34.5   | 34.5   | 36.1   | 47.1   | 41.7   | 23.3   | 21.0   | 22.5   | 25.3   | 21.7   | 11.8   |
| 82.5° | 19.4   | 20.0   | 23.5   | 25.1   | 24.3   | 15.6   | 13.8   | 14.1   | 16.9   | 14.8   | 7.4    |
| 85°   | 2.3    | 3.8    | 13.6   | 13.3   | 10.0   | 6.9    | 7.7    | 7.9    | 10.5   | 9.2    | 4.3    |
| 87.5° | 0.3    | 0.5    | 2.8    | 3.6    | 2.6    | 2.8    | 2.8    | 2.8    | 3.6    | 4.1    | 3.1    |
| 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°    | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 |
| 2.5°  | 845.6 | 826.1 | 779.8 | 726.1 | 691.9 | 636.1 | 589.0 | 555.0 | 546.6 | 530.2 | 535.1 |
| 5°    | 844.6 | 804.1 | 709.8 | 610.0 | 503.6 | 424.3 | 365.2 | 318.7 | 298.2 | 284.7 | 275.2 |
| 7.5°  | 845.1 | 781.9 | 630.5 | 471.6 | 344.5 | 266.8 | 212.0 | 183.6 | 164.7 | 156.8 | 157.8 |
| 10°   | 846.6 | 756.8 | 538.4 | 349.4 | 232.5 | 172.4 | 138.9 | 125.3 | 118.9 | 117.9 | 117.7 |
| 12.5° | 850.2 | 729.5 | 450.4 | 259.4 | 162.7 | 125.3 | 112.5 | 107.9 | 105.9 | 105.9 | 105.1 |
| 15°   | 854.0 | 699.3 | 377.3 | 192.9 | 125.3 | 107.7 | 101.8 | 99.5  | 98.2  | 98.2  | 98.0  |
| 17.5° | 854.0 | 664.5 | 309.0 | 149.6 | 107.9 | 99.0  | 94.4  | 91.3  | 90.3  | 90.3  | 90.0  |
| 20°   | 848.6 | 624.1 | 248.4 | 120.5 | 98.0  | 90.8  | 86.2  | 82.9  | 81.6  | 81.1  | 80.8  |
| 22.5° | 830.0 | 570.1 | 197.7 | 103.6 | 89.8  | 83.6  | 77.8  | 73.9  | 72.9  | 72.4  | 72.6  |
| 25°   | 796.7 | 509.2 | 156.5 | 91.1  | 82.4  | 74.9  | 69.8  | 67.0  | 66.0  | 66.0  | 66.2  |
| 27.5° | 762.5 | 445.6 | 124.0 | 81.6  | 73.4  | 66.8  | 62.7  | 60.9  | 60.6  | 61.4  | 61.6  |
| 30°   | 730.7 | 381.6 | 100.5 | 73.9  | 65.5  | 59.9  | 57.0  | 56.5  | 56.5  | 56.8  | 57.0  |
| 32.5° | 695.4 | 325.6 | 84.1  | 67.3  | 59.1  | 54.2  | 52.7  | 52.7  | 53.2  | 53.2  | 53.7  |
| 35°   | 673.2 | 277.5 | 73.9  | 60.9  | 54.2  | 50.1  | 49.1  | 49.4  | 50.1  | 51.2  | 51.7  |
| 37.5° | 661.2 | 239.1 | 67.3  | 55.8  | 49.6  | 46.8  | 45.8  | 46.3  | 48.1  | 49.9  | 50.1  |
| 40°   | 662.2 | 210.2 | 61.9  | 51.4  | 46.0  | 43.0  | 42.2  | 43.7  | 45.5  | 47.3  | 47.6  |
| 42.5° | 673.4 | 188.8 | 56.8  | 46.3  | 43.0  | 38.6  | 38.4  | 39.9  | 40.7  | 42.5  | 42.7  |
| 45°   | 686.7 | 173.2 | 51.4  | 40.9  | 37.3  | 33.5  | 33.8  | 35.0  | 36.1  | 38.9  | 39.4  |
| 47.5° | 690.8 | 162.4 | 45.3  | 34.8  | 30.7  | 29.4  | 29.7  | 30.4  | 32.5  | 35.0  | 35.3  |
| 50°   | 695.4 | 155.8 | 39.4  | 29.4  | 26.1  | 25.8  | 26.1  | 26.6  | 27.9  | 28.9  | 28.6  |
| 52.5° | 715.1 | 155.5 | 34.5  | 25.6  | 22.3  | 22.8  | 23.0  | 22.8  | 21.7  | 20.2  | 19.7  |
| 54°   | 733.5 | 156.3 | 32.2  | 23.8  | 20.5  | 21.2  | 21.0  | 19.7  | 17.1  | 15.6  | 14.8  |
| 55°   | 748.4 | 157.0 | 30.9  | 22.5  | 19.4  | 19.7  | 20.0  | 17.4  | 14.1  | 12.5  | 12.0  |
| 57.5° | 777.5 | 155.3 | 27.9  | 19.7  | 17.1  | 16.1  | 15.9  | 11.5  | 7.7   | 6.7   | 6.1   |
| 60°   | 763.0 | 140.2 | 25.3  | 16.9  | 14.6  | 13.0  | 10.7  | 6.4   | 3.8   | 2.8   | 2.8   |
| 62.5° | 705.7 | 118.9 | 22.5  | 13.8  | 12.0  | 10.0  | 5.6   | 3.6   | 1.8   | 1.0   | 0.8   |
| 65°   | 631.2 | 100.0 | 20.2  | 11.0  | 9.5   | 6.4   | 3.1   | 2.3   | 0.8   | 0.0   | 0.0   |
| 67.5° | 469.3 | 74.2  | 17.1  | 8.7   | 7.2   | 4.1   | 2.0   | 1.3   | 0.3   | 0.0   | 0.0   |
| 70°   | 217.4 | 45.3  | 14.6  | 6.7   | 5.1   | 3.1   | 1.5   | 0.8   | 0.0   | 0.0   | 0.0   |
| 72.5° | 62.4  | 28.4  | 12.0  | 4.9   | 3.6   | 2.6   | 1.3   | 0.5   | 0.3   | 0.0   | 0.0   |
| 75°   | 21.7  | 22.8  | 9.0   | 3.6   | 2.8   | 1.8   | 1.0   | 0.5   | 0.3   | 0.0   | 0.0   |
| 77.5° | 13.0  | 18.4  | 5.6   | 3.1   | 2.3   | 1.5   | 1.0   | 0.5   | 0.3   | 0.3   | 0.0   |
| 80°   | 7.4   | 12.3  | 3.6   | 2.6   | 2.0   | 1.3   | 0.8   | 0.5   | 0.3   | 0.3   | 0.0   |
| 82.5° | 4.1   | 5.9   | 2.8   | 2.3   | 1.8   | 1.3   | 0.8   | 0.5   | 0.3   | 0.3   | 0.3   |
| 85°   | 3.3   | 3.1   | 2.3   | 2.0   | 1.5   | 1.0   | 0.8   | 0.3   | 0.0   | 0.0   | 0.0   |
| 87.5° | 2.6   | 2.0   | 2.0   | 2.0   | 1.5   | 1.0   | 0.8   | 0.3   | 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)