

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: P450490

Luminaire Tested: **GLAN-SA1B-740-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450490  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1B-740-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4736 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G2

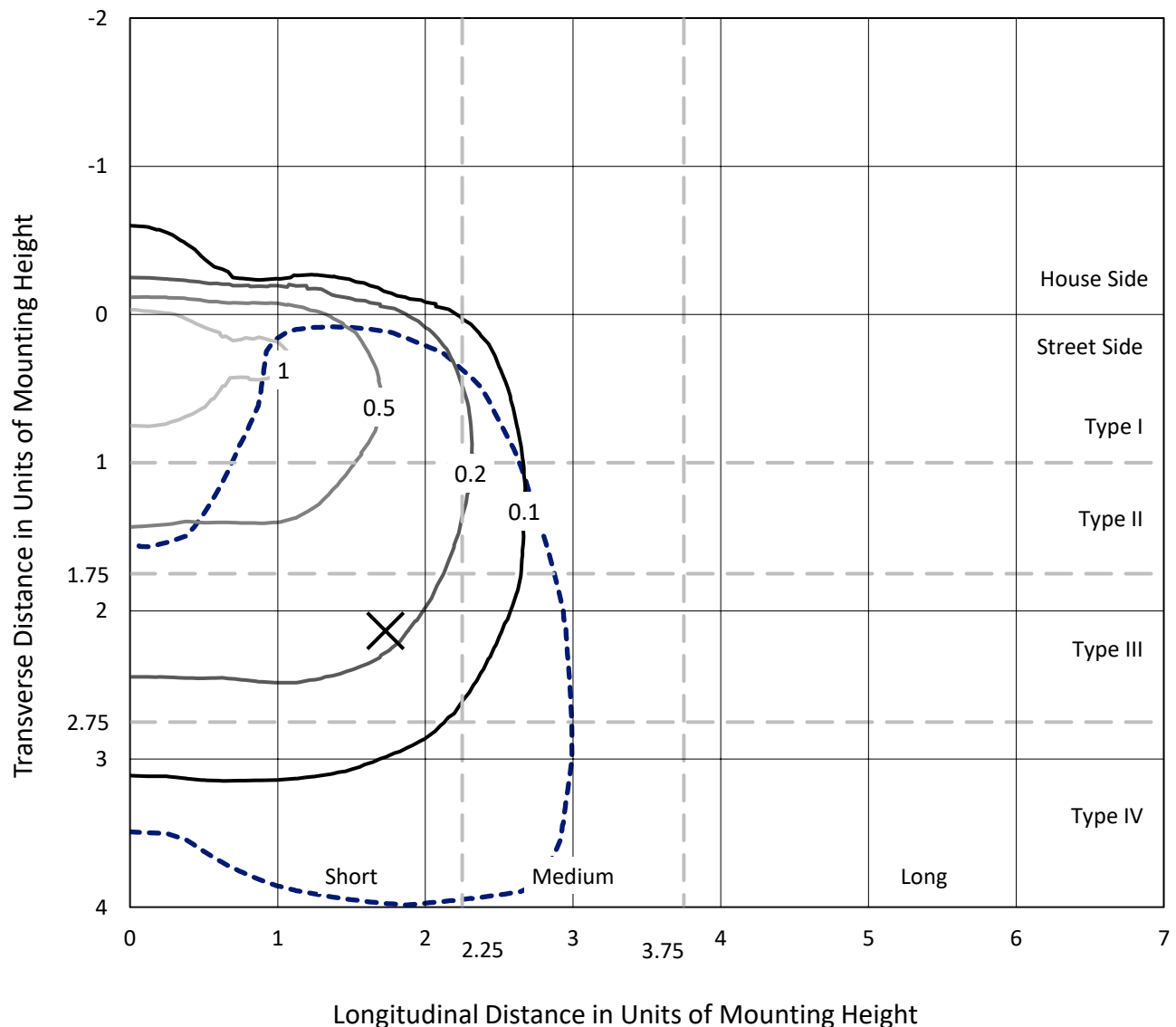
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

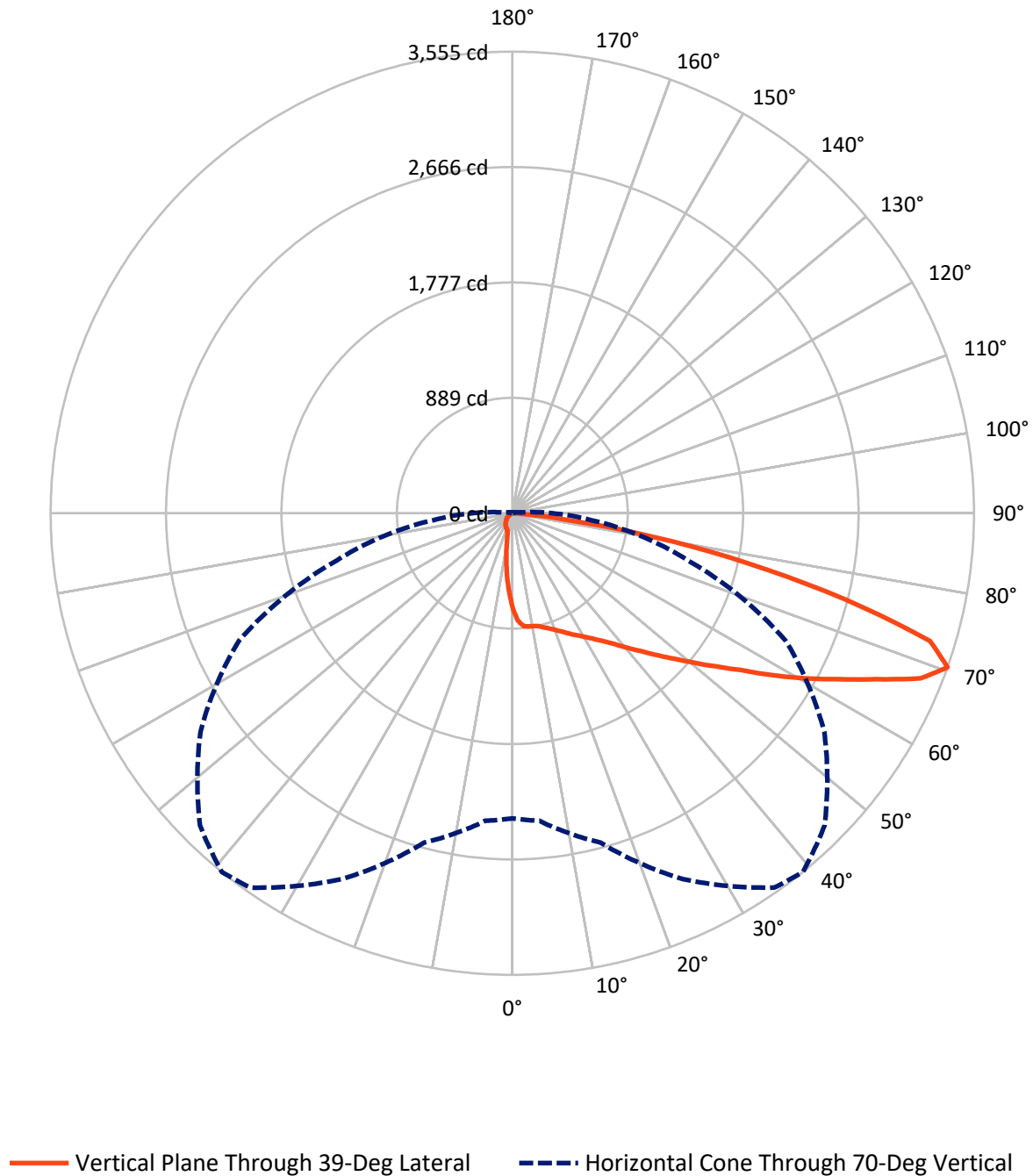
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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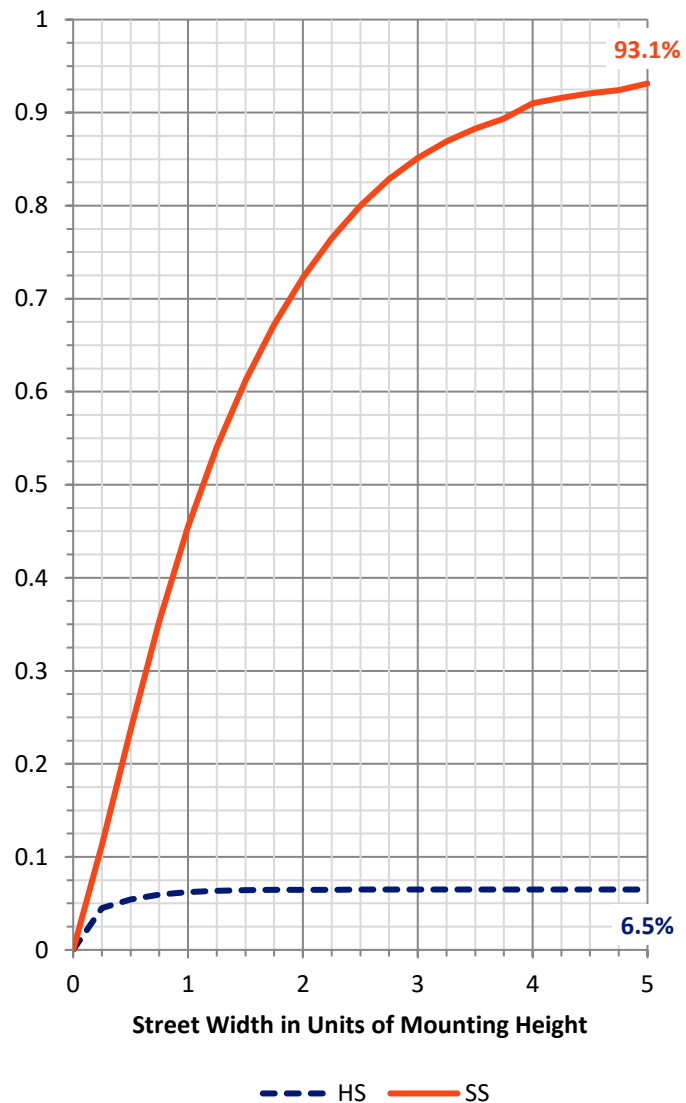
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 308.8    | 0.0    | 308.8  |
|                    | % Fixture | 6.5      | 0.0    | 6.5    |
| <b>Street Side</b> | Lumens    | 4427.2   | 0.0    | 4427.2 |
|                    | % Fixture | 93.5     | 0.0    | 93.5   |
| <b>Total</b>       | Lumens    | 4736.0   | 0.0    | 4736.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 63.0   | 1.3       |
| 10°-20°   | 163.8  | 3.5       |
| 20°-30°   | 274.4  | 5.8       |
| 30°-40°   | 425.6  | 9.0       |
| 40°-50°   | 674.4  | 14.2      |
| 50°-60°   | 988.6  | 20.9      |
| 60°-70°   | 1267.1 | 26.8      |
| 70°-80°   | 796.2  | 16.8      |
| 80°-90°   | 82.9   | 1.8       |
| 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°    | 4736.0 | 100.0     |
| 0°-180°   | 4736.0 | 100.0     |

**Coefficient of Utilization**



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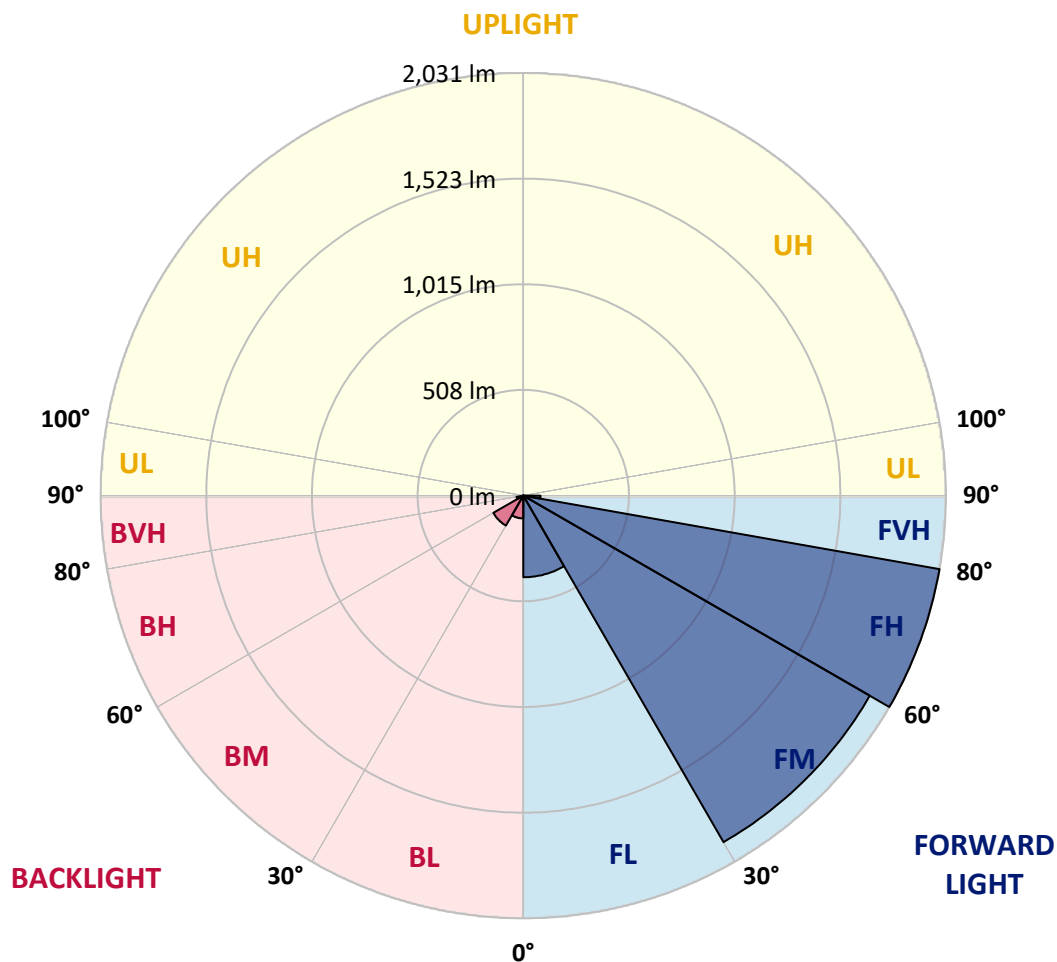
CATALOG NUMBER: GLAN-SA1B-740-U-SL4-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 391.9  | 8.3       |                         |      |         |
| FM   | (30°-60°)   | 1922.3 | 40.6      |                         |      |         |
| FH   | (60°-80°)   | 2030.6 | 42.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 82.3   | 1.7       |                         |      | G1/100  |
| BL   | (0°-30°)    | 109.3  | 2.3       | B0/110                  |      |         |
| BM   | (30°-60°)   | 166.2  | 3.5       | B0/220                  |      |         |
| BH   | (60°-80°)   | 32.7   | 0.7       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.6    | 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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 39°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 739.0  | 739.0  | 739.0  | 739.0  | 739.0  | 739.0  | 739.0  | 739.0  | 739.0  | 739.0  | 739.0  |
| 2.5°  | 853.9  | 851.0  | 847.2  | 842.7  | 830.0  | 827.8  | 820.1  | 803.9  | 784.5  | 768.6  | 746.6  |
| 5°    | 894.3  | 895.9  | 893.0  | 885.1  | 875.8  | 870.4  | 860.9  | 835.7  | 810.6  | 778.4  | 742.5  |
| 7.5°  | 903.5  | 906.7  | 903.2  | 895.6  | 886.6  | 880.9  | 873.3  | 851.6  | 822.4  | 785.8  | 736.4  |
| 10°   | 902.6  | 906.4  | 904.2  | 897.1  | 889.8  | 884.4  | 876.1  | 859.0  | 835.4  | 796.9  | 738.3  |
| 12.5° | 901.0  | 906.1  | 905.7  | 902.2  | 896.2  | 892.1  | 887.0  | 871.7  | 849.7  | 813.1  | 748.8  |
| 15°   | 896.5  | 902.9  | 908.6  | 911.5  | 911.8  | 911.8  | 905.4  | 889.2  | 868.2  | 834.5  | 762.5  |
| 17.5° | 898.4  | 905.7  | 920.1  | 928.3  | 934.1  | 933.4  | 926.7  | 909.2  | 886.0  | 856.4  | 776.9  |
| 20°   | 910.2  | 920.1  | 940.1  | 956.7  | 962.4  | 960.5  | 951.6  | 931.2  | 904.8  | 875.2  | 790.9  |
| 22.5° | 939.2  | 948.1  | 973.2  | 992.6  | 996.8  | 991.7  | 978.9  | 951.3  | 927.4  | 895.6  | 807.7  |
| 25°   | 982.4  | 992.9  | 1016.2 | 1030.8 | 1030.8 | 1028.0 | 1010.1 | 977.7  | 952.8  | 923.9  | 829.7  |
| 27.5° | 1035.0 | 1043.9 | 1066.8 | 1079.8 | 1072.2 | 1063.9 | 1046.1 | 1006.9 | 983.1  | 959.5  | 856.1  |
| 30°   | 1088.1 | 1093.8 | 1118.0 | 1123.7 | 1115.8 | 1105.3 | 1086.2 | 1047.0 | 1026.0 | 1007.9 | 894.3  |
| 32.5° | 1138.4 | 1150.8 | 1170.8 | 1169.6 | 1158.8 | 1153.7 | 1136.2 | 1094.5 | 1082.7 | 1080.8 | 947.8  |
| 35°   | 1188.7 | 1198.2 | 1216.0 | 1220.5 | 1210.9 | 1210.0 | 1197.3 | 1166.4 | 1166.7 | 1179.1 | 1031.1 |
| 37.5° | 1231.9 | 1240.5 | 1261.5 | 1271.4 | 1273.3 | 1278.1 | 1273.0 | 1252.6 | 1281.6 | 1315.6 | 1141.6 |
| 40°   | 1268.2 | 1280.3 | 1307.1 | 1324.2 | 1344.0 | 1361.5 | 1362.4 | 1366.9 | 1425.1 | 1483.7 | 1285.7 |
| 42.5° | 1296.6 | 1313.4 | 1352.2 | 1384.1 | 1429.3 | 1451.5 | 1469.4 | 1493.9 | 1591.9 | 1679.4 | 1455.7 |
| 45°   | 1333.5 | 1352.9 | 1401.3 | 1451.2 | 1521.9 | 1558.5 | 1583.3 | 1648.9 | 1787.9 | 1907.3 | 1630.1 |
| 47.5° | 1394.6 | 1404.8 | 1454.1 | 1527.0 | 1619.9 | 1672.1 | 1720.5 | 1819.8 | 1998.3 | 2105.2 | 1775.2 |
| 50°   | 1473.2 | 1479.9 | 1517.1 | 1618.3 | 1738.6 | 1807.3 | 1895.5 | 2012.3 | 2216.6 | 2269.4 | 1857.3 |
| 52.5° | 1560.1 | 1562.3 | 1590.3 | 1718.9 | 1871.6 | 1958.2 | 2056.9 | 2201.0 | 2394.5 | 2386.6 | 1911.7 |
| 55°   | 1661.0 | 1657.8 | 1681.6 | 1828.0 | 2029.2 | 2128.1 | 2243.0 | 2394.2 | 2548.9 | 2469.6 | 1942.9 |
| 57.5° | 1776.5 | 1767.9 | 1791.1 | 1972.8 | 2230.9 | 2349.3 | 2466.1 | 2561.0 | 2668.5 | 2539.3 | 1957.9 |
| 60°   | 1897.4 | 1880.2 | 1907.9 | 2135.5 | 2468.7 | 2581.0 | 2678.1 | 2703.5 | 2794.6 | 2594.7 | 1932.1 |
| 62.5° | 1993.8 | 1994.2 | 2045.7 | 2308.6 | 2713.1 | 2811.4 | 2863.0 | 2885.9 | 2903.1 | 2582.6 | 1796.5 |
| 65°   | 2144.4 | 2149.5 | 2231.9 | 2548.9 | 2996.0 | 3081.3 | 3116.6 | 3042.2 | 2907.9 | 2432.4 | 1592.8 |
| 67.5° | 2299.7 | 2315.9 | 2466.8 | 2879.9 | 3322.9 | 3391.6 | 3346.1 | 3072.4 | 2778.0 | 2089.6 | 1207.8 |
| 70°   | 2350.3 | 2377.0 | 2625.6 | 3107.7 | 3518.9 | 3554.5 | 3400.5 | 2931.4 | 2322.3 | 1397.1 | 607.9  |
| 72.5° | 2153.6 | 2196.9 | 2534.2 | 3024.7 | 3393.8 | 3363.0 | 3042.5 | 2458.5 | 1476.4 | 530.5  | 185.5  |
| 75°   | 1518.7 | 1537.8 | 2106.2 | 2509.1 | 2729.6 | 2642.1 | 2314.3 | 1584.9 | 607.2  | 148.9  | 63.7   |
| 77.5° | 784.2  | 774.9  | 1252.6 | 1664.8 | 1946.7 | 1856.0 | 1515.5 | 820.5  | 230.1  | 62.1   | 39.5   |
| 80°   | 405.5  | 412.1  | 542.0  | 872.3  | 1188.3 | 1093.5 | 808.0  | 380.3  | 122.5  | 34.4   | 30.2   |
| 82.5° | 227.2  | 213.2  | 311.6  | 380.9  | 555.7  | 435.7  | 310.0  | 269.2  | 53.5   | 20.7   | 28.6   |
| 85°   | 41.4   | 43.3   | 170.9  | 205.9  | 192.9  | 122.5  | 99.9   | 179.8  | 15.6   | 11.5   | 20.0   |
| 87.5° | 0.6    | 0.6    | 33.1   | 59.2   | 37.6   | 17.2   | 31.5   | 25.8   | 3.2    | 4.5    | 3.5    |
| 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°    | 739.0  | 739.0 | 739.0 | 739.0 | 739.0 | 739.0 | 739.0 | 739.0 | 739.0 | 739.0 | 739.0 |
| 2.5°  | 735.5  | 723.4 | 700.8 | 678.5 | 650.2 | 627.0 | 611.4 | 595.1 | 578.6 | 579.9 | 583.7 |
| 5°    | 722.7  | 701.7 | 657.2 | 610.1 | 564.9 | 524.2 | 484.1 | 448.1 | 433.5 | 420.1 | 420.7 |
| 7.5°  | 710.0  | 680.4 | 615.2 | 541.3 | 472.9 | 403.5 | 353.3 | 311.9 | 289.9 | 273.4 | 268.6 |
| 10°   | 704.3  | 665.1 | 576.7 | 475.1 | 378.1 | 302.3 | 237.7 | 204.0 | 177.9 | 169.6 | 171.9 |
| 12.5° | 706.8  | 657.5 | 542.0 | 415.3 | 299.8 | 210.7 | 165.5 | 148.3 | 142.6 | 141.6 | 141.0 |
| 15°   | 711.6  | 652.1 | 507.9 | 349.1 | 220.2 | 156.6 | 139.1 | 135.9 | 135.3 | 134.6 | 134.9 |
| 17.5° | 718.0  | 647.3 | 471.6 | 287.1 | 169.0 | 136.8 | 131.8 | 130.2 | 129.8 | 129.8 | 129.8 |
| 20°   | 724.3  | 641.9 | 431.2 | 231.7 | 141.0 | 129.2 | 126.0 | 125.1 | 124.8 | 124.8 | 124.4 |
| 22.5° | 731.7  | 637.1 | 390.2 | 182.0 | 129.8 | 123.8 | 120.9 | 120.3 | 120.0 | 119.7 | 119.7 |
| 25°   | 742.2  | 631.1 | 346.6 | 148.9 | 122.8 | 118.7 | 115.8 | 115.2 | 114.9 | 113.6 | 113.9 |
| 27.5° | 756.2  | 626.6 | 301.7 | 128.6 | 116.5 | 112.3 | 110.4 | 109.5 | 108.8 | 107.9 | 108.2 |
| 30°   | 775.3  | 622.8 | 254.0 | 117.4 | 109.2 | 105.7 | 103.7 | 103.1 | 102.5 | 101.5 | 101.5 |
| 32.5° | 808.4  | 624.4 | 203.7 | 108.5 | 102.5 | 98.3  | 96.4  | 95.8  | 95.2  | 94.2  | 94.2  |
| 35°   | 858.0  | 633.6 | 162.9 | 100.9 | 94.5  | 90.4  | 88.5  | 88.5  | 87.5  | 86.2  | 85.9  |
| 37.5° | 939.2  | 657.2 | 130.8 | 93.6  | 86.9  | 83.1  | 80.8  | 80.2  | 79.2  | 77.3  | 77.0  |
| 40°   | 1035.0 | 693.8 | 110.1 | 86.2  | 79.9  | 76.1  | 74.2  | 72.2  | 69.7  | 67.8  | 67.5  |
| 42.5° | 1155.3 | 731.3 | 95.5  | 78.9  | 73.2  | 69.7  | 67.5  | 64.3  | 60.5  | 57.9  | 57.6  |
| 45°   | 1280.6 | 765.7 | 85.6  | 72.2  | 66.8  | 64.0  | 61.4  | 56.3  | 51.6  | 48.4  | 48.1  |
| 47.5° | 1374.2 | 772.1 | 77.7  | 65.9  | 61.4  | 58.6  | 55.1  | 48.7  | 42.3  | 39.5  | 38.5  |
| 50°   | 1418.4 | 741.2 | 69.4  | 59.5  | 56.0  | 52.8  | 48.4  | 41.1  | 34.1  | 30.6  | 29.9  |
| 52.5° | 1434.0 | 687.7 | 62.7  | 53.8  | 50.6  | 46.8  | 41.4  | 33.1  | 26.7  | 23.2  | 22.9  |
| 55°   | 1427.7 | 620.3 | 56.6  | 48.4  | 44.2  | 39.8  | 34.4  | 26.4  | 19.7  | 16.9  | 16.2  |
| 57.5° | 1394.3 | 534.3 | 50.6  | 43.0  | 37.9  | 33.4  | 27.4  | 19.7  | 13.4  | 10.8  | 10.5  |
| 60°   | 1304.2 | 417.2 | 44.6  | 36.9  | 32.1  | 27.4  | 21.6  | 14.0  | 8.3   | 6.0   | 6.0   |
| 62.5° | 1152.1 | 309.7 | 38.8  | 30.9  | 27.1  | 22.0  | 15.3  | 8.9   | 4.5   | 3.2   | 2.9   |
| 65°   | 962.7  | 228.5 | 32.5  | 26.1  | 22.6  | 17.2  | 10.8  | 5.4   | 2.2   | 1.0   | 0.6   |
| 67.5° | 671.8  | 141.0 | 27.1  | 21.3  | 18.5  | 12.4  | 6.7   | 2.2   | 1.0   | 0.0   | 0.0   |
| 70°   | 305.2  | 67.2  | 20.7  | 16.2  | 14.0  | 8.9   | 3.5   | 1.3   | 0.6   | 0.0   | 0.0   |
| 72.5° | 94.8   | 35.3  | 14.6  | 11.8  | 9.5   | 5.7   | 1.9   | 1.0   | 0.6   | 0.0   | 0.0   |
| 75°   | 43.9   | 22.6  | 9.2   | 6.4   | 5.4   | 2.9   | 1.3   | 0.6   | 0.3   | 0.0   | 0.0   |
| 77.5° | 32.8   | 17.5  | 5.4   | 3.5   | 2.9   | 1.9   | 1.0   | 0.6   | 0.3   | 0.0   | 0.0   |
| 80°   | 28.6   | 8.9   | 3.2   | 2.2   | 1.6   | 1.3   | 0.6   | 0.3   | 0.0   | 0.0   | 0.0   |
| 82.5° | 25.8   | 4.5   | 1.9   | 1.3   | 1.0   | 0.6   | 0.3   | 0.3   | 0.0   | 0.0   | 0.0   |
| 85°   | 14.0   | 2.5   | 1.3   | 1.0   | 0.6   | 0.3   | 0.3   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 2.5    | 1.3   | 1.0   | 0.6   | 0.6   | 0.3   | 0.3   | 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)