

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: P450921

Luminaire Tested: **GLAN-SA1D-730-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450921  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1D-730-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5834 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 65  
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

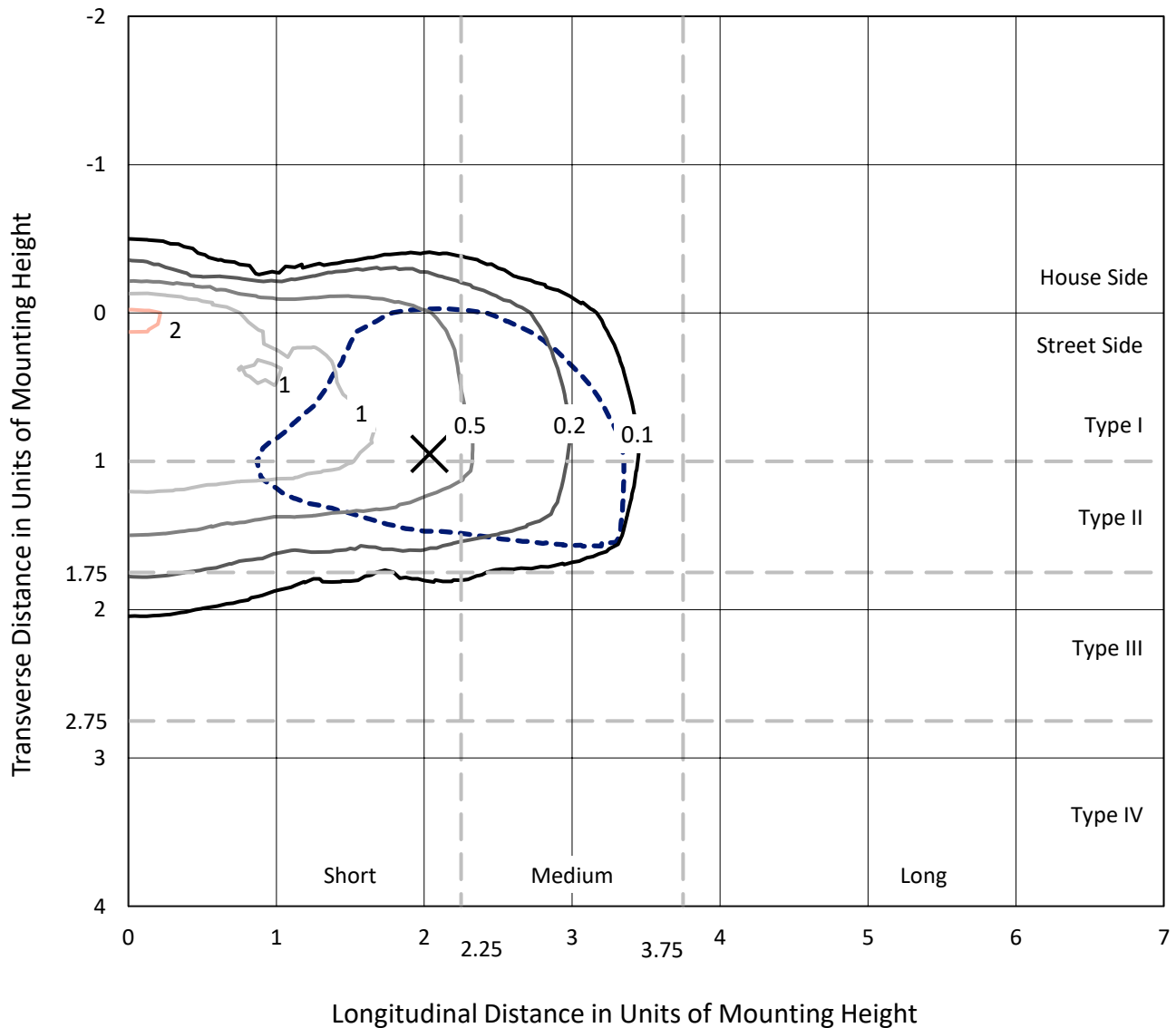


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## Iso-Footcandle Lines of Horizontal Illumination

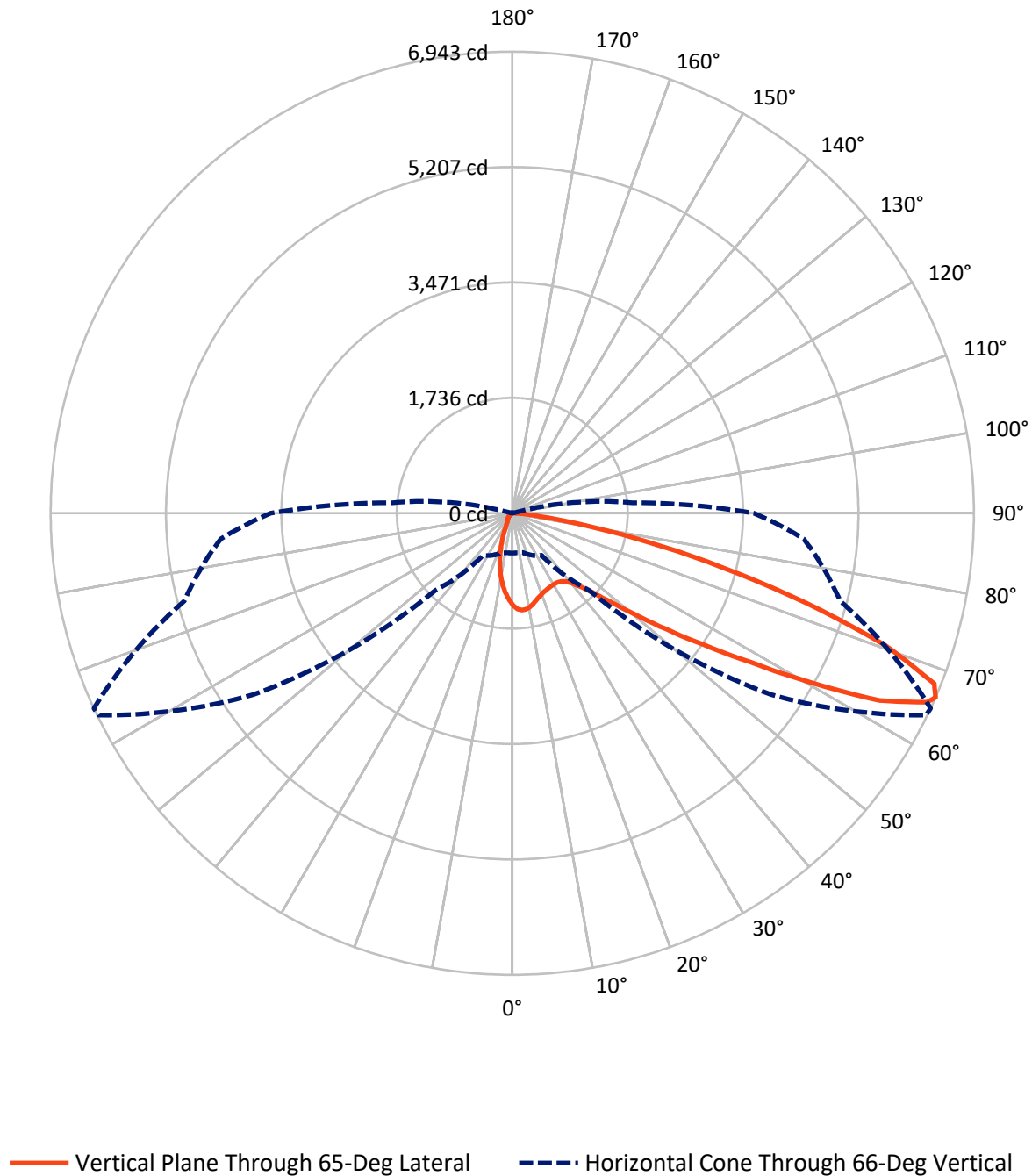
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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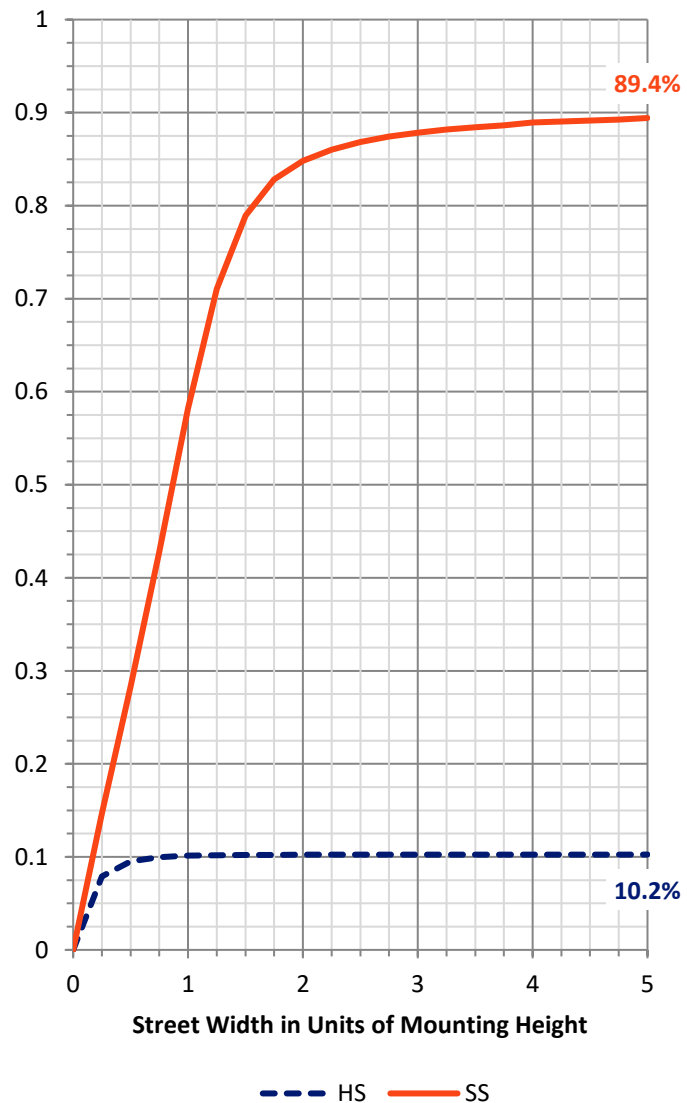
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 603.3    | 0.0    | 603.3  |
|                    | % Fixture | 10.3     | 0.0    | 10.3   |
| <b>Street Side</b> | Lumens    | 5230.7   | 0.0    | 5230.7 |
|                    | % Fixture | 89.7     | 0.0    | 89.7   |
| <b>Total</b>       | Lumens    | 5834.0   | 0.0    | 5834.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 113.1  | 1.9       |
| 10°-20°   | 246.5  | 4.2       |
| 20°-30°   | 353.2  | 6.1       |
| 30°-40°   | 515.8  | 8.8       |
| 40°-50°   | 864.9  | 14.8      |
| 50°-60°   | 1443.4 | 24.7      |
| 60°-70°   | 1532.1 | 26.3      |
| 70°-80°   | 693.9  | 11.9      |
| 80°-90°   | 71.0   | 1.2       |
| 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°    | 5834.0 | 100.0     |
| 0°-180°   | 5834.0 | 100.0     |

**Coefficient of Utilization**



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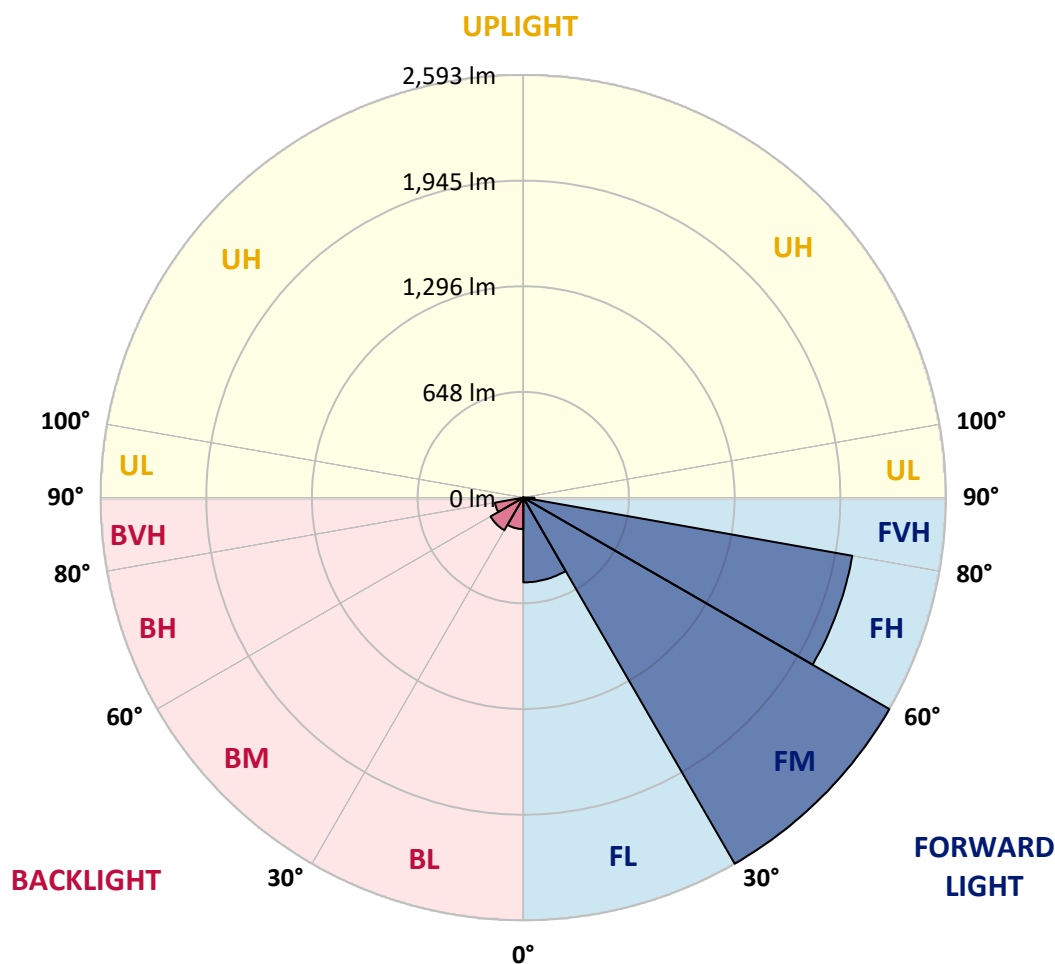
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 519.8  | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 2592.8 | 44.4      |                         |      |         |
| FH   | (60°-80°)   | 2049.3 | 35.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 68.7   | 1.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 193.0  | 3.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 231.4  | 4.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 176.7  | 3.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 2.3    | 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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 64°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1383.5 | 1383.5 | 1383.5 | 1383.5 | 1383.5 | 1383.5 | 1383.5 | 1383.5 | 1383.5 | 1383.5 | 1383.5 |
| 2.5°  | 1457.9 | 1459.5 | 1461.5 | 1464.2 | 1466.2 | 1460.3 | 1452.0 | 1442.6 | 1440.6 | 1420.5 | 1396.1 |
| 5°    | 1379.9 | 1382.3 | 1399.6 | 1409.1 | 1430.3 | 1449.7 | 1461.9 | 1463.4 | 1462.7 | 1443.7 | 1404.7 |
| 7.5°  | 1268.8 | 1275.5 | 1292.4 | 1309.0 | 1348.8 | 1385.4 | 1428.8 | 1459.1 | 1461.1 | 1456.0 | 1407.5 |
| 10°   | 1178.6 | 1182.9 | 1191.6 | 1224.3 | 1257.4 | 1313.3 | 1374.0 | 1431.1 | 1435.9 | 1456.4 | 1405.1 |
| 12.5° | 1108.0 | 1114.3 | 1125.0 | 1150.2 | 1190.0 | 1242.8 | 1311.7 | 1388.6 | 1398.4 | 1448.9 | 1398.4 |
| 15°   | 1058.8 | 1061.9 | 1072.6 | 1097.4 | 1136.0 | 1184.9 | 1254.6 | 1344.1 | 1352.7 | 1439.0 | 1397.2 |
| 17.5° | 1035.5 | 1039.1 | 1046.6 | 1066.3 | 1098.2 | 1143.5 | 1211.7 | 1308.2 | 1319.2 | 1432.7 | 1401.6 |
| 20°   | 1041.8 | 1045.0 | 1045.4 | 1055.6 | 1077.3 | 1115.5 | 1180.1 | 1274.7 | 1288.9 | 1428.8 | 1408.7 |
| 22.5° | 1077.7 | 1078.1 | 1073.4 | 1068.6 | 1076.1 | 1103.7 | 1160.8 | 1253.4 | 1268.0 | 1428.0 | 1416.9 |
| 25°   | 1131.3 | 1132.5 | 1124.6 | 1108.0 | 1093.1 | 1107.2 | 1156.5 | 1239.6 | 1252.6 | 1426.0 | 1422.1 |
| 27.5° | 1205.4 | 1205.0 | 1202.6 | 1175.0 | 1132.5 | 1123.0 | 1160.0 | 1232.1 | 1243.2 | 1420.5 | 1424.0 |
| 30°   | 1309.0 | 1305.8 | 1300.7 | 1269.6 | 1204.6 | 1161.2 | 1175.0 | 1227.4 | 1237.7 | 1412.6 | 1418.9 |
| 32.5° | 1411.0 | 1422.9 | 1422.1 | 1392.5 | 1311.3 | 1229.4 | 1206.1 | 1233.7 | 1241.2 | 1407.5 | 1411.4 |
| 35°   | 1530.0 | 1529.6 | 1560.0 | 1549.0 | 1454.0 | 1316.5 | 1259.3 | 1254.6 | 1260.5 | 1411.0 | 1407.9 |
| 37.5° | 1640.4 | 1650.6 | 1697.9 | 1709.3 | 1622.6 | 1439.4 | 1334.6 | 1299.5 | 1301.5 | 1435.1 | 1416.6 |
| 40°   | 1777.9 | 1797.6 | 1868.1 | 1906.3 | 1829.9 | 1621.8 | 1445.7 | 1381.9 | 1382.3 | 1494.2 | 1449.3 |
| 42.5° | 1955.2 | 1986.3 | 2052.1 | 2116.0 | 2075.0 | 1837.8 | 1612.4 | 1512.3 | 1511.5 | 1598.2 | 1524.1 |
| 45°   | 2170.7 | 2192.4 | 2267.3 | 2368.5 | 2342.5 | 2139.2 | 1855.1 | 1714.4 | 1704.2 | 1768.8 | 1656.9 |
| 47.5° | 2356.7 | 2386.3 | 2462.3 | 2577.8 | 2696.0 | 2507.2 | 2145.1 | 1992.2 | 1985.5 | 2040.3 | 1884.7 |
| 50°   | 2437.9 | 2463.9 | 2543.9 | 2705.8 | 2992.3 | 2990.3 | 2577.0 | 2397.7 | 2386.3 | 2415.8 | 2236.9 |
| 52.5° | 2348.8 | 2373.3 | 2454.0 | 2655.8 | 3131.8 | 3579.0 | 3202.7 | 2906.4 | 2892.6 | 2854.8 | 2657.8 |
| 55°   | 2043.9 | 2064.0 | 2183.3 | 2415.0 | 3078.2 | 3971.5 | 4064.9 | 3534.9 | 3481.3 | 3334.3 | 3134.2 |
| 57.5° | 1627.4 | 1617.1 | 1691.2 | 1960.3 | 2763.8 | 4103.1 | 4949.9 | 4317.8 | 4222.1 | 3748.8 | 3537.3 |
| 60°   | 1127.7 | 1159.3 | 1189.2 | 1366.5 | 2078.1 | 3874.9 | 5500.3 | 5302.1 | 5176.0 | 4156.7 | 3923.4 |
| 62.5° | 829.0  | 849.9  | 869.6  | 951.6  | 1306.6 | 3094.0 | 5597.7 | 6313.2 | 6201.3 | 4589.7 | 4291.8 |
| 65°   | 655.7  | 657.3  | 665.1  | 745.9  | 861.0  | 2011.9 | 5129.9 | 6883.4 | 6854.6 | 5006.6 | 4441.2 |
| 66°   | 597.4  | 597.8  | 610.0  | 696.7  | 772.7  | 1638.4 | 4755.2 | 6926.7 | 6942.5 | 5106.7 | 4397.4 |
| 67.5° | 522.1  | 520.5  | 538.3  | 626.1  | 703.7  | 1181.3 | 4084.6 | 6751.0 | 6844.4 | 5183.5 | 4240.2 |
| 70°   | 404.7  | 402.7  | 424.4  | 525.2  | 648.2  | 788.1  | 2714.9 | 5796.6 | 5947.2 | 5026.3 | 3751.6 |
| 72.5° | 269.5  | 271.1  | 308.1  | 414.5  | 618.6  | 693.9  | 1633.3 | 4409.6 | 4622.4 | 4150.8 | 2951.3 |
| 75°   | 157.2  | 160.0  | 202.1  | 308.1  | 537.1  | 661.6  | 924.4  | 3144.4 | 3280.3 | 2866.2 | 1838.6 |
| 77.5° | 82.4   | 83.5   | 113.1  | 203.3  | 411.8  | 614.3  | 615.9  | 2008.8 | 2072.6 | 1392.9 | 727.8  |
| 80°   | 43.7   | 42.6   | 60.7   | 122.5  | 283.3  | 539.4  | 499.6  | 1063.5 | 1105.7 | 413.7  | 184.0  |
| 82.5° | 16.5   | 18.1   | 32.3   | 80.4   | 167.5  | 387.3  | 430.3  | 470.1  | 455.5  | 91.0   | 77.2   |
| 85°   | 3.2    | 3.9    | 13.8   | 47.7   | 84.3   | 161.9  | 317.2  | 230.5  | 213.6  | 34.3   | 44.5   |
| 87.5° | 0.4    | 0.8    | 3.9    | 11.4   | 12.2   | 54.8   | 93.8   | 63.8   | 55.2   | 12.6   | 18.5   |
| 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°    | 1383.5 | 1383.5 | 1383.5 | 1383.5 | 1383.5 | 1383.5 | 1383.5 | 1383.5 | 1383.5 | 1383.5 | 1383.5 |
| 2.5°  | 1384.2 | 1373.6 | 1338.1 | 1303.1 | 1267.2 | 1234.9 | 1212.8 | 1177.0 | 1167.9 | 1154.9 | 1147.4 |
| 5°    | 1381.5 | 1356.7 | 1288.5 | 1214.0 | 1144.7 | 1069.8 | 1012.7 | 957.5  | 928.0  | 913.0  | 907.5  |
| 7.5°  | 1373.6 | 1334.2 | 1227.8 | 1111.2 | 1000.1 | 888.2  | 790.8  | 716.7  | 669.1  | 636.4  | 614.3  |
| 10°   | 1357.8 | 1303.5 | 1157.3 | 996.9  | 829.0  | 681.3  | 558.0  | 464.2  | 391.7  | 368.8  | 369.6  |
| 12.5° | 1341.7 | 1269.2 | 1078.5 | 870.0  | 662.0  | 475.6  | 344.8  | 270.7  | 236.0  | 224.6  | 222.2  |
| 15°   | 1326.7 | 1236.5 | 1001.2 | 747.1  | 492.9  | 308.1  | 222.2  | 196.2  | 186.8  | 184.8  | 184.4  |
| 17.5° | 1318.8 | 1206.1 | 918.9  | 606.4  | 344.0  | 209.2  | 178.1  | 171.0  | 168.3  | 166.3  | 165.5  |
| 20°   | 1312.1 | 1179.7 | 840.1  | 474.8  | 235.2  | 171.4  | 159.6  | 152.9  | 148.2  | 146.2  | 145.0  |
| 22.5° | 1307.4 | 1152.6 | 758.5  | 367.6  | 180.1  | 152.1  | 141.5  | 132.8  | 126.1  | 123.7  | 122.2  |
| 25°   | 1300.3 | 1122.6 | 676.2  | 268.7  | 151.7  | 135.2  | 122.9  | 112.7  | 104.0  | 99.7   | 98.9   |
| 27.5° | 1290.1 | 1088.7 | 585.9  | 199.0  | 135.5  | 120.2  | 105.2  | 92.6   | 83.9   | 79.2   | 79.6   |
| 30°   | 1273.5 | 1053.3 | 495.7  | 158.0  | 122.5  | 104.8  | 88.7   | 76.4   | 68.2   | 64.6   | 64.2   |
| 32.5° | 1253.8 | 1010.3 | 412.9  | 135.5  | 110.7  | 91.0   | 74.1   | 63.4   | 57.1   | 54.4   | 54.0   |
| 35°   | 1235.3 | 967.0  | 328.6  | 121.8  | 98.5   | 78.4   | 62.3   | 53.2   | 48.5   | 46.1   | 46.5   |
| 37.5° | 1225.1 | 928.3  | 256.1  | 110.7  | 88.7   | 67.4   | 53.6   | 45.7   | 41.4   | 39.4   | 39.0   |
| 40°   | 1231.8 | 896.8  | 203.7  | 100.9  | 77.6   | 57.9   | 46.1   | 39.4   | 35.1   | 32.3   | 32.3   |
| 42.5° | 1263.3 | 883.0  | 164.3  | 91.4   | 67.4   | 50.0   | 40.2   | 33.9   | 29.2   | 26.4   | 26.8   |
| 45°   | 1359.4 | 897.6  | 137.5  | 82.7   | 57.9   | 43.3   | 34.7   | 28.0   | 23.6   | 21.7   | 21.3   |
| 47.5° | 1519.0 | 952.4  | 119.0  | 73.7   | 49.6   | 37.0   | 29.2   | 23.2   | 18.9   | 17.3   | 16.9   |
| 50°   | 1798.0 | 1065.5 | 105.2  | 64.6   | 42.2   | 31.5   | 24.0   | 18.5   | 15.0   | 13.4   | 13.4   |
| 52.5° | 2181.8 | 1312.1 | 95.4   | 54.4   | 35.5   | 26.8   | 19.7   | 15.0   | 11.8   | 10.6   | 10.2   |
| 55°   | 2582.9 | 1572.2 | 90.2   | 45.7   | 29.6   | 22.1   | 15.8   | 11.8   | 9.1    | 7.9    | 7.5    |
| 57.5° | 2968.7 | 1776.3 | 84.3   | 37.0   | 23.6   | 16.9   | 12.2   | 9.1    | 6.3    | 5.5    | 5.1    |
| 60°   | 3338.7 | 1941.4 | 71.7   | 29.6   | 18.5   | 12.2   | 9.1    | 6.3    | 4.3    | 3.5    | 3.5    |
| 62.5° | 3669.6 | 2037.6 | 56.3   | 23.6   | 14.2   | 8.7    | 5.9    | 4.7    | 3.2    | 2.4    | 2.4    |
| 65°   | 3708.3 | 1912.6 | 42.6   | 18.1   | 10.2   | 5.5    | 3.5    | 3.5    | 2.4    | 1.6    | 1.6    |
| 66°   | 3630.6 | 1806.7 | 37.4   | 16.5   | 9.1    | 4.7    | 3.2    | 2.8    | 2.0    | 1.2    | 1.2    |
| 67.5° | 3457.3 | 1625.8 | 32.3   | 14.2   | 7.5    | 3.5    | 2.4    | 2.4    | 1.6    | 0.8    | 0.8    |
| 70°   | 2987.2 | 1327.9 | 25.6   | 10.6   | 5.5    | 2.8    | 1.6    | 1.6    | 1.2    | 0.8    | 0.8    |
| 72.5° | 2276.7 | 991.4  | 20.9   | 7.9    | 3.9    | 2.0    | 1.2    | 1.2    | 1.2    | 0.8    | 0.8    |
| 75°   | 1373.2 | 533.9  | 16.2   | 5.9    | 3.5    | 1.6    | 0.8    | 1.2    | 1.6    | 1.2    | 0.8    |
| 77.5° | 505.9  | 181.7  | 12.6   | 4.7    | 2.8    | 1.6    | 0.8    | 0.8    | 1.6    | 1.2    | 1.2    |
| 80°   | 124.1  | 47.3   | 9.1    | 3.9    | 2.8    | 1.6    | 0.8    | 0.8    | 1.6    | 1.6    | 1.6    |
| 82.5° | 57.5   | 20.1   | 6.3    | 3.5    | 2.8    | 1.6    | 0.8    | 0.8    | 1.2    | 1.6    | 1.6    |
| 85°   | 33.1   | 9.5    | 5.1    | 3.9    | 2.8    | 1.6    | 0.8    | 0.8    | 1.2    | 1.6    | 1.6    |
| 87.5° | 13.4   | 4.7    | 4.7    | 3.9    | 3.2    | 2.0    | 0.8    | 0.8    | 0.8    | 1.2    | 1.2    |
| 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)