

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: P287035

Luminaire Tested: **USSL-C027-D-U-T4-BZ-7030-HSS**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P287035  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-9)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-C027-D-U-T4-BZ-7030-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, BRONZE  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 11717 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G4

Input Watts (W): 96  
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

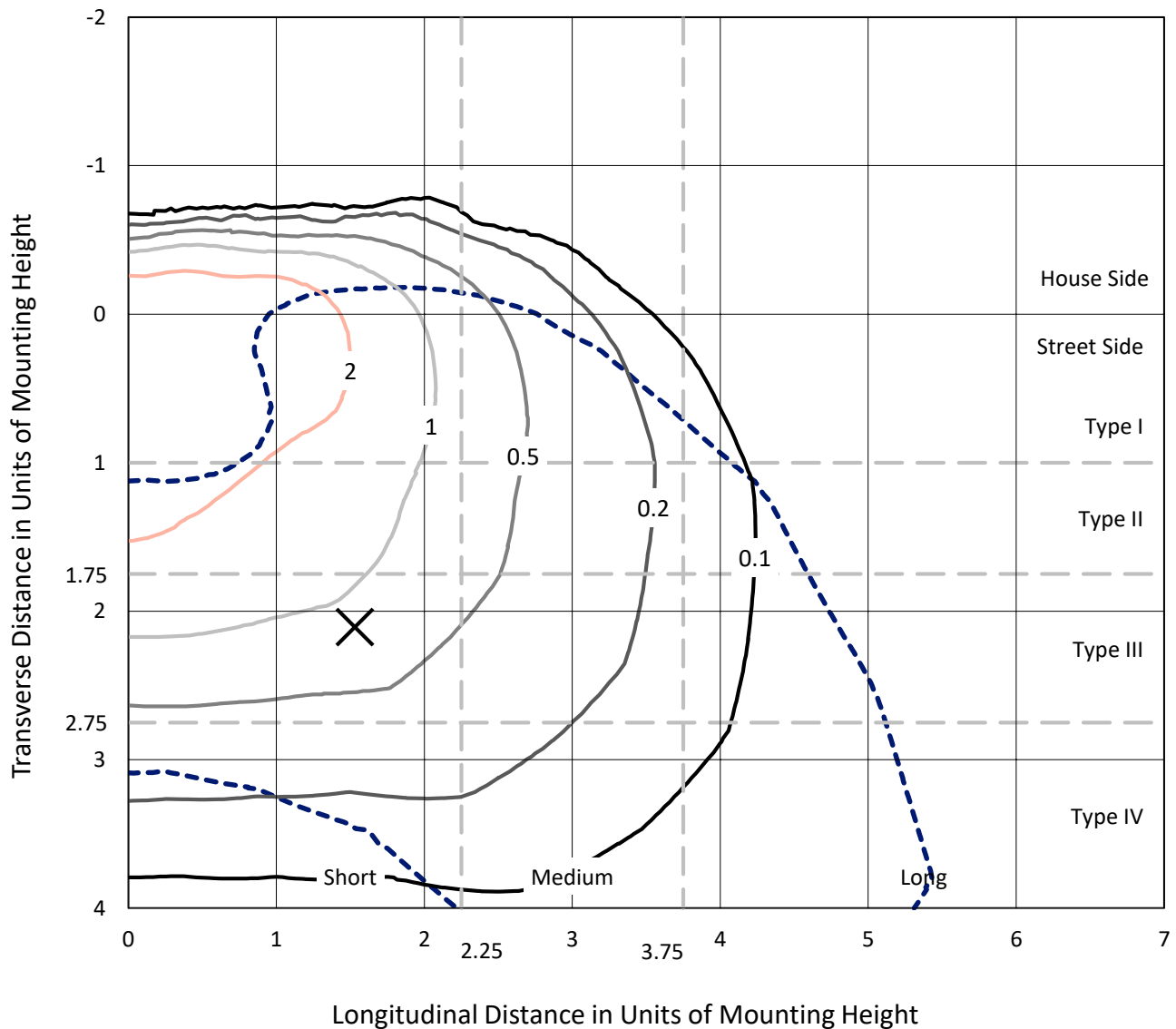


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

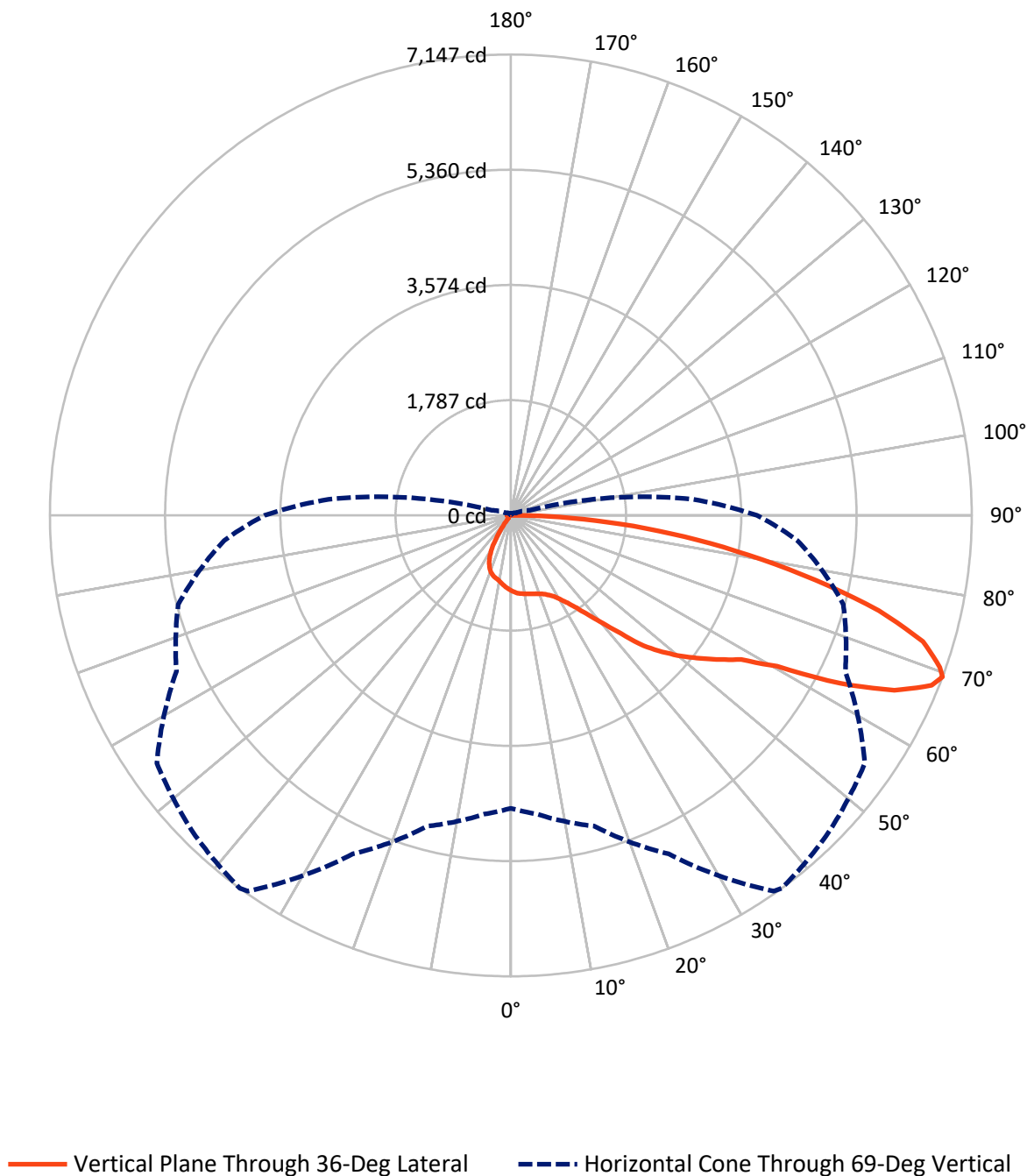


Based on 20 foot mounting height. Maximum calculated value = 3.8 fc  
 Type IV - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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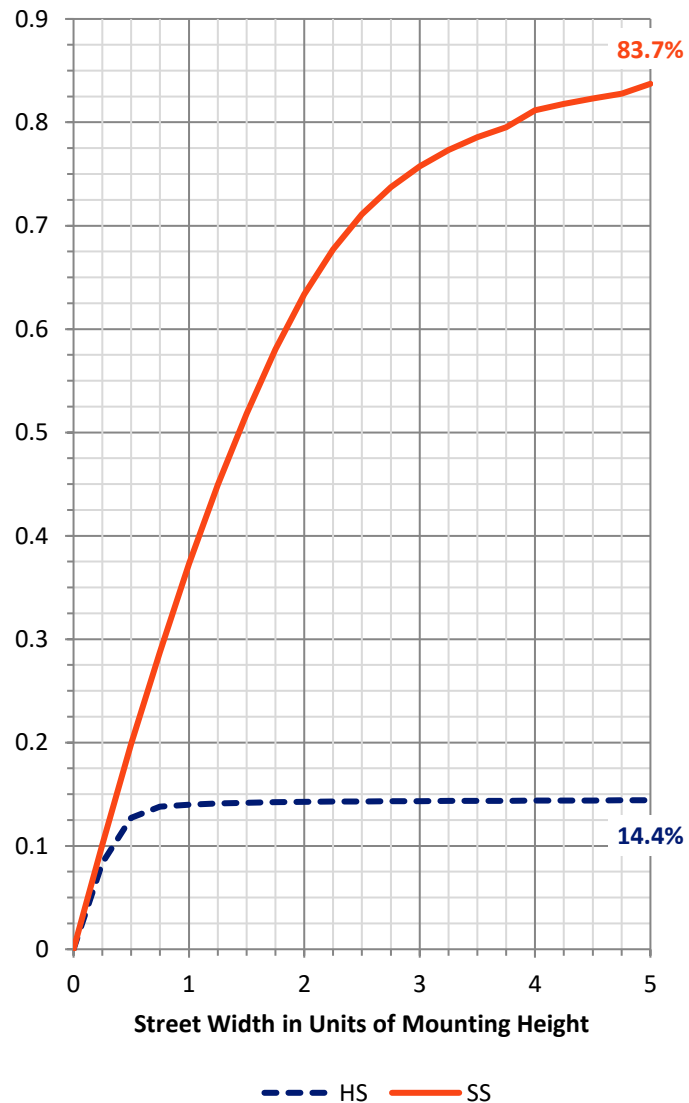
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1708.5   | 0.0    | 1708.5  |
|                    | % Fixture | 14.6     | 0.0    | 14.6    |
| <b>Street Side</b> | Lumens    | 10008.5  | 0.0    | 10008.5 |
|                    | % Fixture | 85.4     | 0.0    | 85.4    |
| <b>Total</b>       | Lumens    | 11717.0  | 0.0    | 11717.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 110.8   | 0.9       |
| 10°-20°   | 330.8   | 2.8       |
| 20°-30°   | 554.3   | 4.7       |
| 30°-40°   | 896.5   | 7.7       |
| 40°-50°   | 1581.3  | 13.5      |
| 50°-60°   | 2304.9  | 19.7      |
| 60°-70°   | 3044.3  | 26.0      |
| 70°-80°   | 2340.8  | 20.0      |
| 80°-90°   | 553.4   | 4.7       |
| 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°    | 11717.0 | 100.0     |
| 0°-180°   | 11717.0 | 100.0     |

**Coefficient of Utilization**



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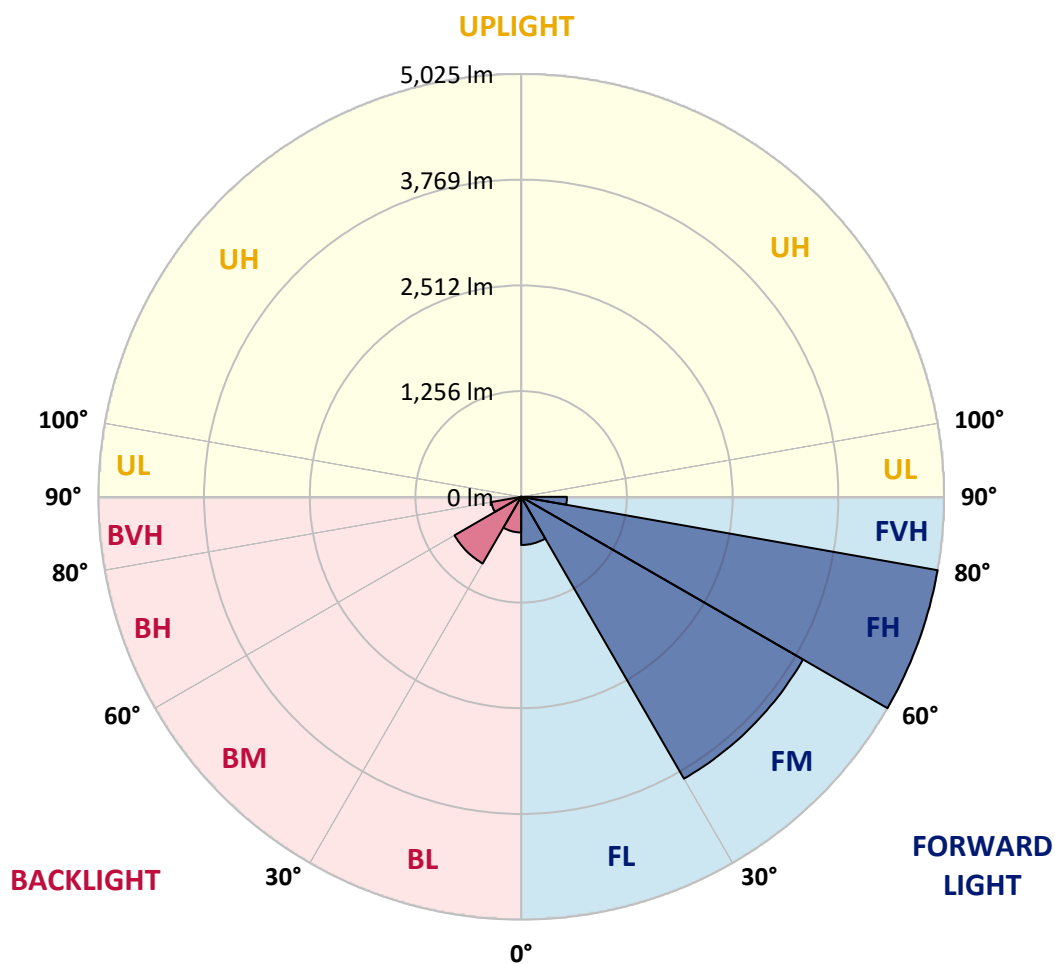
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 572.7  | 4.9       |                         |      |         |
| FM   | (30°-60°)   | 3867.9 | 33.0      |                         |      |         |
| FH   | (60°-80°)   | 5024.8 | 42.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 543.1  | 4.6       |                         |      | G4/750  |
| BL   | (0°-30°)    | 423.2  | 3.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 914.8  | 7.8       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 360.2  | 3.1       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 10.3   | 0.1       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 36°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1167.4 | 1167.4 | 1167.4 | 1167.4 | 1167.4 | 1167.4 | 1167.4 | 1167.4 | 1167.4 | 1167.4 | 1167.4 |
| 2.5°  | 1210.5 | 1212.4 | 1206.7 | 1193.4 | 1190.2 | 1191.5 | 1192.8 | 1185.2 | 1176.9 | 1173.1 | 1164.3 |
| 5°    | 1232.0 | 1232.6 | 1230.1 | 1218.1 | 1214.9 | 1214.9 | 1213.6 | 1204.8 | 1196.6 | 1191.5 | 1178.8 |
| 7.5°  | 1237.7 | 1237.1 | 1238.3 | 1225.7 | 1228.8 | 1223.1 | 1226.9 | 1218.1 | 1210.5 | 1203.5 | 1192.1 |
| 10°   | 1246.5 | 1247.8 | 1246.5 | 1236.4 | 1237.7 | 1238.9 | 1238.3 | 1232.0 | 1231.4 | 1230.7 | 1211.1 |
| 12.5° | 1242.1 | 1241.5 | 1245.3 | 1238.9 | 1247.8 | 1249.1 | 1263.0 | 1266.2 | 1269.3 | 1269.3 | 1249.1 |
| 15°   | 1238.9 | 1232.0 | 1247.8 | 1242.7 | 1261.1 | 1263.0 | 1283.9 | 1302.9 | 1306.7 | 1307.9 | 1300.3 |
| 17.5° | 1243.4 | 1242.1 | 1264.3 | 1254.8 | 1280.7 | 1276.3 | 1296.5 | 1330.1 | 1347.8 | 1356.6 | 1361.1 |
| 20°   | 1262.4 | 1267.4 | 1285.8 | 1276.3 | 1297.8 | 1297.8 | 1319.9 | 1356.0 | 1389.5 | 1411.7 | 1416.1 |
| 22.5° | 1291.5 | 1293.4 | 1314.9 | 1305.4 | 1322.5 | 1324.4 | 1343.4 | 1385.7 | 1431.3 | 1468.6 | 1487.6 |
| 25°   | 1322.5 | 1321.2 | 1338.9 | 1339.6 | 1362.3 | 1368.0 | 1384.5 | 1418.7 | 1478.8 | 1527.5 | 1579.4 |
| 27.5° | 1368.0 | 1365.5 | 1386.4 | 1380.1 | 1422.5 | 1421.8 | 1440.8 | 1481.3 | 1549.0 | 1612.9 | 1692.0 |
| 30°   | 1442.1 | 1435.7 | 1448.4 | 1458.5 | 1506.6 | 1508.5 | 1525.6 | 1565.5 | 1633.8 | 1726.8 | 1823.0 |
| 32.5° | 1561.7 | 1566.7 | 1565.5 | 1552.8 | 1613.5 | 1617.3 | 1659.1 | 1723.6 | 1793.2 | 1905.2 | 2017.9 |
| 35°   | 1813.5 | 1812.9 | 1778.7 | 1746.4 | 1752.1 | 1763.5 | 1817.9 | 1934.4 | 2076.7 | 2341.2 | 2440.6 |
| 37.5° | 2126.7 | 2141.9 | 2081.8 | 1988.8 | 1958.4 | 1956.5 | 2004.0 | 2176.7 | 2409.6 | 2920.2 | 2960.1 |
| 40°   | 2541.2 | 2512.7 | 2439.9 | 2296.9 | 2220.4 | 2198.8 | 2214.7 | 2417.8 | 2775.3 | 3413.8 | 3375.8 |
| 42.5° | 2822.8 | 2835.4 | 2755.7 | 2633.6 | 2519.7 | 2503.2 | 2465.9 | 2682.9 | 3171.4 | 3807.3 | 3701.0 |
| 45°   | 3160.6 | 3186.0 | 3098.0 | 3011.3 | 2896.2 | 2886.0 | 2829.7 | 2956.3 | 3552.3 | 4099.0 | 3955.4 |
| 47.5° | 3454.9 | 3472.6 | 3332.1 | 3251.1 | 3168.2 | 3160.0 | 3106.9 | 3232.2 | 3883.3 | 4338.9 | 4163.6 |
| 50°   | 3771.9 | 3786.5 | 3633.3 | 3518.2 | 3439.7 | 3432.1 | 3402.4 | 3541.6 | 4218.6 | 4565.4 | 4335.7 |
| 52.5° | 4176.2 | 4121.8 | 3935.8 | 3778.9 | 3691.5 | 3681.4 | 3696.0 | 3850.4 | 4536.3 | 4728.6 | 4473.6 |
| 55°   | 4649.5 | 4501.5 | 4263.6 | 4067.4 | 3937.0 | 3944.0 | 3961.1 | 4164.2 | 4806.5 | 4886.8 | 4577.4 |
| 57.5° | 4934.9 | 4943.1 | 4764.7 | 4475.5 | 4228.1 | 4214.2 | 4201.5 | 4449.0 | 5026.0 | 5062.1 | 4678.0 |
| 60°   | 5316.5 | 5342.4 | 5319.0 | 5140.6 | 4807.1 | 4747.6 | 4541.3 | 4766.6 | 5258.9 | 5203.8 | 4738.1 |
| 62.5° | 5606.3 | 5648.7 | 5785.3 | 5675.2 | 5713.8 | 5739.2 | 5171.6 | 5146.9 | 5472.8 | 5300.7 | 4750.8 |
| 65°   | 5539.8 | 5580.3 | 5860.6 | 6077.1 | 6484.6 | 6538.3 | 6395.3 | 5631.0 | 5639.8 | 5343.7 | 4710.3 |
| 67.5° | 5036.8 | 5078.6 | 5420.2 | 6003.0 | 6975.6 | 7036.3 | 6883.8 | 6471.3 | 5722.7 | 5345.6 | 4607.1 |
| 69°   | 4541.3 | 4648.9 | 4986.8 | 5789.8 | 7112.9 | 7147.1 | 6961.7 | 6700.3 | 5721.4 | 5338.0 | 4461.6 |
| 70°   | 4245.2 | 4331.3 | 4714.7 | 5543.6 | 7041.4 | 7057.8 | 6914.8 | 6792.7 | 5699.9 | 5271.5 | 4324.9 |
| 72.5° | 3413.1 | 3394.1 | 3802.3 | 4699.5 | 6695.3 | 6685.1 | 6701.0 | 6668.7 | 5660.7 | 5028.6 | 3748.5 |
| 75°   | 2474.1 | 2481.1 | 2858.8 | 3697.9 | 5821.4 | 5895.4 | 6211.8 | 6403.6 | 5279.1 | 4385.7 | 2758.2 |
| 77.5° | 1758.4 | 1773.0 | 2097.6 | 2831.0 | 4798.2 | 4833.0 | 5413.3 | 5617.0 | 4442.0 | 3450.5 | 1503.4 |
| 80°   | 1176.9 | 1189.6 | 1493.3 | 2087.5 | 3665.0 | 3744.1 | 4376.8 | 4422.4 | 3361.9 | 2135.6 | 272.1  |
| 82.5° | 735.9  | 742.2  | 977.6  | 1487.0 | 2674.1 | 2712.7 | 3005.6 | 2917.7 | 1747.7 | 475.8  | 81.0   |
| 85°   | 422.1  | 429.6  | 599.2  | 941.6  | 1688.8 | 1703.4 | 1898.9 | 1443.3 | 418.9  | 63.9   | 44.3   |
| 87.5° | 120.9  | 129.7  | 248.0  | 406.2  | 761.8  | 756.2  | 708.7  | 472.7  | 67.7   | 29.1   | 20.9   |
| 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°    | 1167.4 | 1167.4 | 1167.4 | 1167.4 | 1167.4 | 1167.4 | 1167.4 | 1167.4 | 1167.4 | 1167.4 | 1167.4 |
| 2.5°  | 1157.3 | 1166.8 | 1155.4 | 1147.2 | 1137.7 | 1139.0 | 1139.0 | 1128.2 | 1128.2 | 1143.4 | 1145.3 |
| 5°    | 1171.9 | 1178.8 | 1159.2 | 1143.4 | 1123.2 | 1118.7 | 1106.1 | 1093.4 | 1089.0 | 1102.3 | 1104.2 |
| 7.5°  | 1185.2 | 1181.4 | 1158.0 | 1132.6 | 1106.1 | 1085.2 | 1069.4 | 1048.5 | 1039.0 | 1054.2 | 1056.7 |
| 10°   | 1198.5 | 1187.1 | 1163.0 | 1132.6 | 1090.2 | 1059.9 | 1036.5 | 999.1  | 989.0  | 996.6  | 1000.4 |
| 12.5° | 1235.2 | 1220.0 | 1192.1 | 1139.6 | 1091.5 | 1050.4 | 1004.8 | 958.0  | 934.0  | 942.8  | 947.9  |
| 15°   | 1289.6 | 1266.8 | 1237.7 | 1173.1 | 1106.7 | 1047.2 | 985.2  | 911.2  | 867.5  | 862.5  | 863.7  |
| 17.5° | 1354.1 | 1330.1 | 1291.5 | 1213.0 | 1128.2 | 1047.2 | 955.5  | 862.5  | 790.3  | 769.4  | 772.0  |
| 20°   | 1419.3 | 1392.7 | 1361.7 | 1259.2 | 1148.5 | 1031.4 | 918.8  | 797.3  | 694.1  | 646.7  | 646.7  |
| 22.5° | 1494.0 | 1475.0 | 1423.1 | 1295.9 | 1155.4 | 1006.7 | 862.5  | 709.3  | 582.8  | 513.2  | 510.6  |
| 25°   | 1590.8 | 1573.7 | 1478.1 | 1325.0 | 1149.7 | 975.7  | 789.7  | 605.6  | 448.6  | 377.8  | 374.0  |
| 27.5° | 1699.0 | 1665.4 | 1531.9 | 1346.5 | 1130.1 | 925.7  | 692.9  | 473.9  | 312.6  | 245.5  | 242.3  |
| 30°   | 1819.2 | 1770.5 | 1573.0 | 1342.7 | 1094.0 | 841.6  | 579.0  | 318.3  | 182.2  | 137.9  | 137.9  |
| 32.5° | 1991.9 | 1903.3 | 1621.8 | 1333.9 | 1044.1 | 741.0  | 425.2  | 188.6  | 91.1   | 70.2   | 70.2   |
| 35°   | 2329.2 | 2162.8 | 1695.8 | 1309.8 | 963.1  | 608.1  | 267.7  | 84.8   | 50.0   | 49.4   | 49.4   |
| 37.5° | 2781.6 | 2497.5 | 1814.8 | 1274.4 | 851.7  | 442.3  | 133.5  | 46.8   | 46.8   | 48.1   | 47.5   |
| 40°   | 3178.4 | 2858.2 | 1973.6 | 1220.6 | 729.6  | 279.0  | 60.7   | 44.9   | 47.5   | 49.4   | 49.4   |
| 42.5° | 3473.2 | 3136.6 | 2127.3 | 1142.1 | 582.8  | 142.4  | 50.6   | 43.7   | 45.6   | 46.2   | 46.8   |
| 45°   | 3723.2 | 3370.7 | 2250.1 | 1042.8 | 426.5  | 67.7   | 50.6   | 43.0   | 43.0   | 43.0   | 43.7   |
| 47.5° | 3914.9 | 3542.2 | 2334.3 | 925.7  | 265.1  | 56.9   | 53.2   | 42.4   | 39.9   | 38.6   | 39.2   |
| 50°   | 4064.9 | 3661.8 | 2364.0 | 795.4  | 131.0  | 57.6   | 51.9   | 39.9   | 34.8   | 35.4   | 36.1   |
| 52.5° | 4170.5 | 3758.6 | 2332.4 | 632.8  | 67.7   | 60.7   | 52.5   | 38.6   | 31.0   | 32.9   | 32.9   |
| 55°   | 4268.6 | 3782.7 | 2252.0 | 449.9  | 60.7   | 61.4   | 52.5   | 35.4   | 26.6   | 30.4   | 32.3   |
| 57.5° | 4293.3 | 3782.0 | 2126.1 | 282.8  | 65.2   | 58.2   | 50.0   | 34.8   | 25.3   | 30.4   | 31.6   |
| 60°   | 4330.0 | 3751.0 | 1953.3 | 172.7  | 68.3   | 53.8   | 46.8   | 32.9   | 24.0   | 25.3   | 26.6   |
| 62.5° | 4290.1 | 3697.9 | 1694.5 | 114.5  | 65.8   | 50.0   | 45.6   | 31.6   | 20.9   | 19.0   | 18.4   |
| 65°   | 4212.3 | 3520.1 | 1278.8 | 92.4   | 61.4   | 48.7   | 41.1   | 27.8   | 17.1   | 12.0   | 11.4   |
| 67.5° | 4030.7 | 3182.2 | 676.4  | 87.3   | 57.6   | 48.1   | 36.7   | 25.9   | 13.9   | 7.0    | 6.3    |
| 69°   | 3816.8 | 2839.8 | 306.9  | 88.6   | 67.1   | 48.1   | 37.3   | 22.8   | 12.7   | 5.1    | 4.4    |
| 70°   | 3593.5 | 2527.3 | 139.8  | 86.1   | 72.8   | 50.6   | 36.7   | 20.9   | 11.4   | 4.4    | 3.8    |
| 72.5° | 2771.5 | 1571.1 | 95.5   | 76.6   | 81.0   | 49.4   | 36.7   | 19.6   | 10.8   | 2.5    | 1.9    |
| 75°   | 1645.2 | 389.8  | 86.1   | 60.7   | 77.2   | 60.1   | 44.3   | 21.5   | 9.5    | 1.3    | 0.0    |
| 77.5° | 426.5  | 108.8  | 72.8   | 46.2   | 68.3   | 67.7   | 51.3   | 21.5   | 9.5    | 0.0    | 0.0    |
| 80°   | 110.1  | 83.5   | 62.6   | 29.7   | 53.8   | 65.8   | 41.8   | 24.0   | 7.6    | 0.0    | 0.0    |
| 82.5° | 65.8   | 60.7   | 68.3   | 18.4   | 43.0   | 44.3   | 24.7   | 17.1   | 8.2    | 0.0    | 0.0    |
| 85°   | 38.0   | 52.5   | 48.1   | 13.9   | 8.2    | 4.4    | 10.1   | 19.0   | 8.2    | 0.0    | 0.0    |
| 87.5° | 22.1   | 28.5   | 10.8   | 1.9    | 1.9    | 1.3    | 0.6    | 2.5    | 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)