

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: P482988

Luminaire Tested: **IFLD-S-SA2B-830-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482988
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-830-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

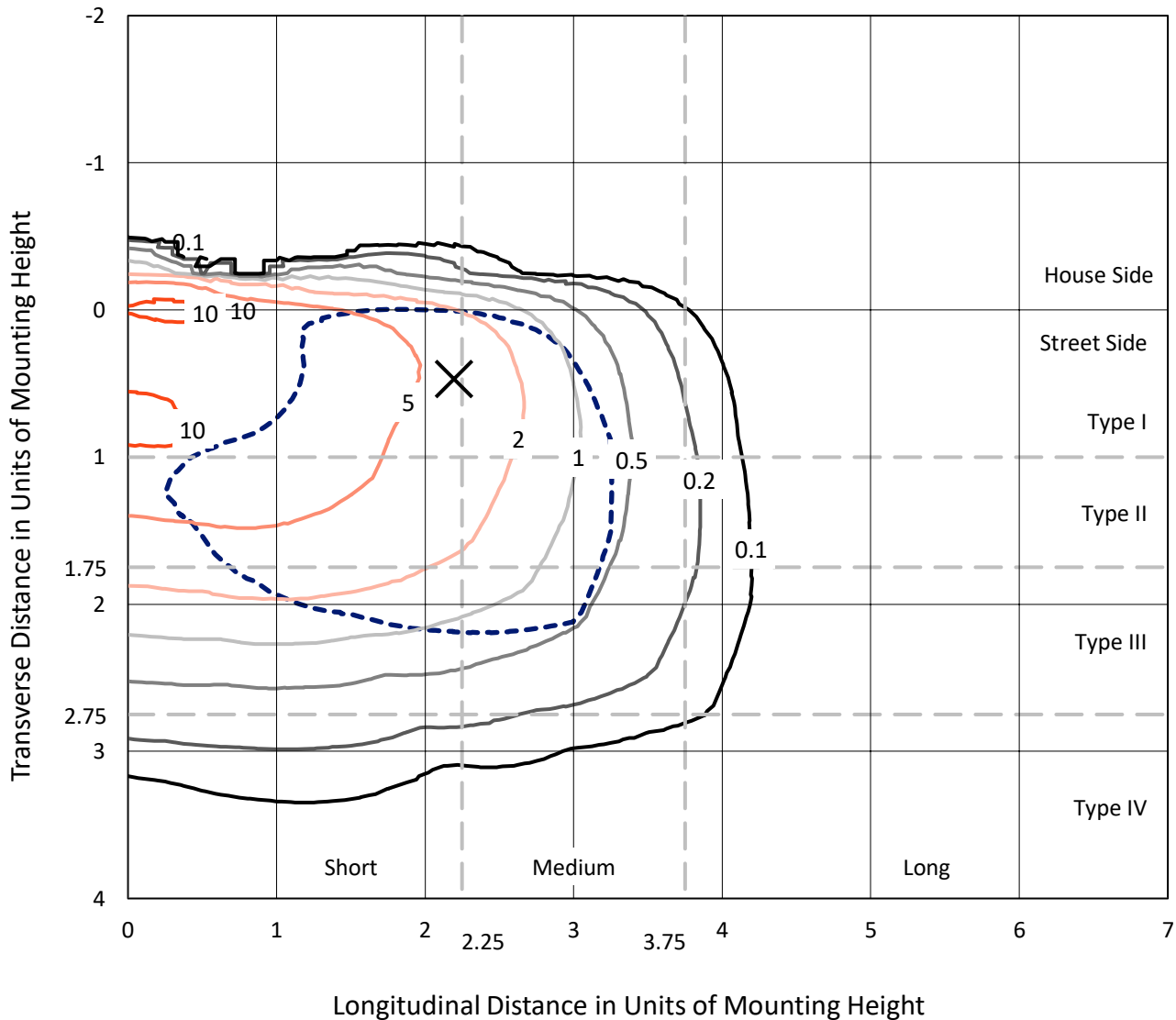
Lumens per Lamp: N/A
Luminaire Lumens: 6503.4 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (A_{in}): 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

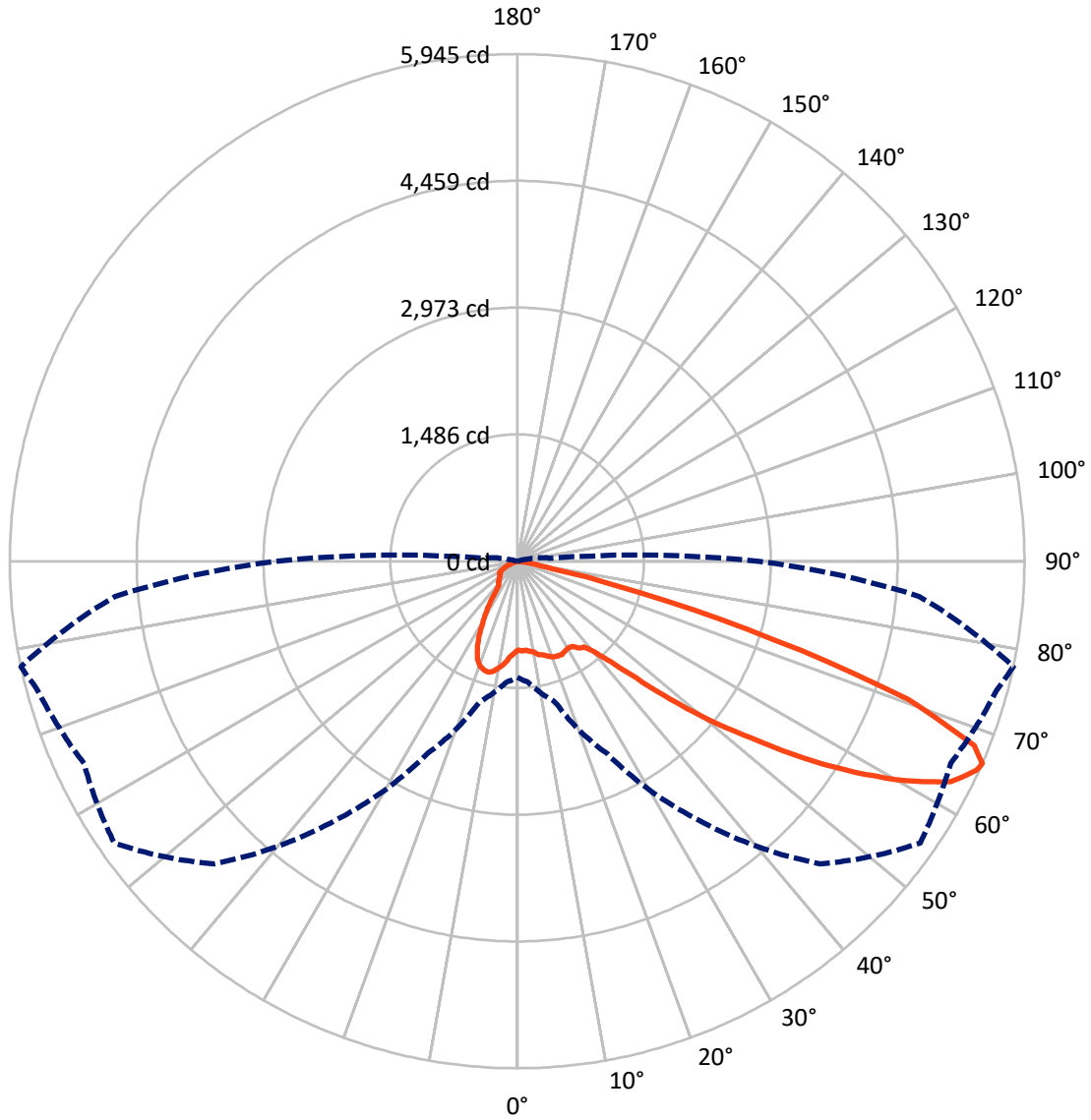
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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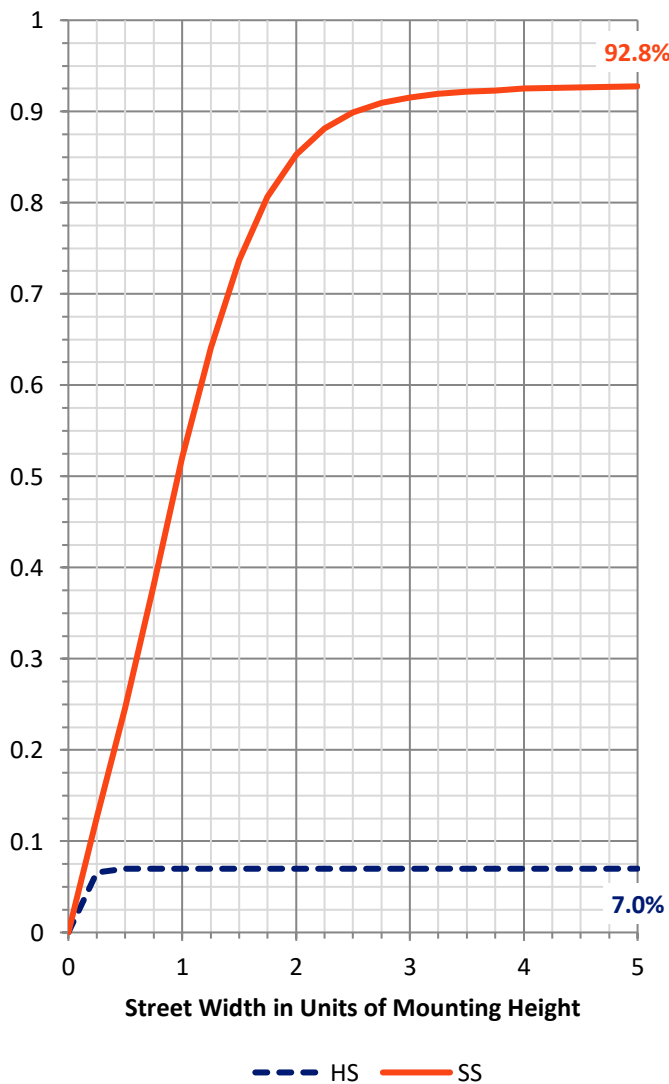
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 457.2 | 0.0 | 457.2 |
| | % Fixture | 7.0 | 0.0 | 7.0 |
| Street Side | Lumens | 6046.2 | 0.0 | 6046.2 |
| | % Fixture | 93.0 | 0.0 | 93.0 |
| Total | Lumens | 6503.4 | 0.0 | 6503.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 95.3 | 1.5 |
| 10°-20° | 215.1 | 3.3 |
| 20°-30° | 307.5 | 4.7 |
| 30°-40° | 526.3 | 8.1 |
| 40°-50° | 949.9 | 14.6 |
| 50°-60° | 1624.5 | 25.0 |
| 60°-70° | 1999.4 | 30.7 |
| 70°-80° | 755.9 | 11.6 |
| 80°-90° | 29.5 | 0.5 |
| 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° | 6503.4 | 100.0 |
| 0°-180° | 6503.4 | 100.0 |

Coefficient of Utilization

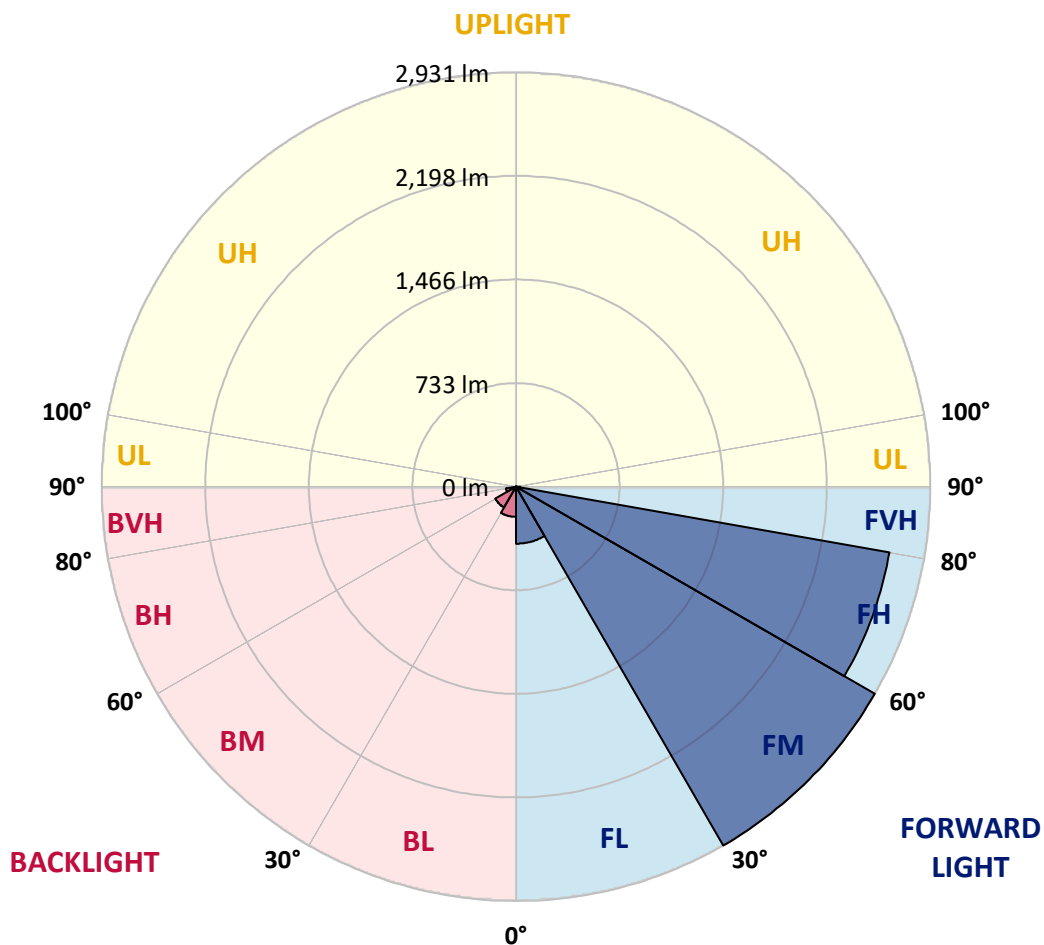


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 403.7 | 6.2 | | | |
| FM (30°-60°) | 2931.2 | 45.1 | | | |
| FH (60°-80°) | 2682.9 | 41.3 | | | G2/5000 |
| FVH (80°-90°) | 28.3 | 0.4 | | | G1/100 |
| BL (0°-30°) | 214.1 | 3.3 | B1/500 | | |
| BM (30°-60°) | 169.5 | 2.6 | B0/220 | | |
| BH (60°-80°) | 72.4 | 1.1 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.2 | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 |
| 2.5° | 958.1 | 949.3 | 958.1 | 970.9 | 977.8 | 983.7 | 1004.3 | 1022.0 | 1040.6 | 1053.4 | 1049.5 |
| 5° | 888.3 | 905.0 | 907.0 | 910.9 | 921.7 | 957.1 | 968.9 | 999.4 | 1045.6 | 1049.5 | 1067.2 |
| 7.5° | 833.3 | 828.4 | 841.2 | 866.7 | 894.2 | 914.9 | 949.3 | 1002.3 | 1050.5 | 1067.2 | 1101.6 |
| 10° | 753.7 | 763.5 | 777.3 | 802.8 | 836.3 | 887.4 | 948.3 | 1007.2 | 1076.0 | 1081.9 | 1145.8 |
| 12.5° | 710.5 | 700.6 | 722.3 | 748.8 | 805.8 | 853.0 | 927.6 | 998.4 | 1091.7 | 1124.2 | 1197.9 |
| 15° | 675.1 | 680.0 | 700.6 | 718.3 | 765.5 | 825.4 | 912.9 | 1020.0 | 1118.3 | 1140.9 | 1252.9 |
| 17.5° | 660.4 | 657.4 | 673.1 | 690.8 | 748.8 | 816.6 | 907.0 | 1021.0 | 1141.9 | 1171.3 | 1290.2 |
| 20° | 667.2 | 673.1 | 668.2 | 684.9 | 721.3 | 790.1 | 915.8 | 1039.7 | 1159.6 | 1199.8 | 1330.5 |
| 22.5° | 775.3 | 767.5 | 728.2 | 696.7 | 698.7 | 779.3 | 909.0 | 1051.5 | 1175.3 | 1207.7 | 1358.1 |
| 25° | 1057.4 | 1015.1 | 917.8 | 796.9 | 717.3 | 749.8 | 901.1 | 1047.5 | 1172.3 | 1212.6 | 1374.8 |
| 27.5° | 1341.3 | 1305.0 | 1209.7 | 1022.0 | 793.0 | 738.0 | 873.6 | 1050.5 | 1157.6 | 1194.9 | 1347.2 |
| 30° | 1641.1 | 1660.7 | 1519.2 | 1296.1 | 991.5 | 802.8 | 855.9 | 1034.8 | 1147.8 | 1179.2 | 1353.1 |
| 32.5° | 1948.6 | 1940.8 | 1855.3 | 1613.5 | 1275.5 | 946.3 | 884.4 | 1050.5 | 1160.5 | 1191.0 | 1387.5 |
| 35° | 2189.4 | 2161.9 | 2075.4 | 1857.2 | 1510.4 | 1162.5 | 982.7 | 1125.2 | 1216.5 | 1252.9 | 1436.7 |
| 37.5° | 2308.3 | 2320.1 | 2270.0 | 2080.3 | 1767.8 | 1363.0 | 1105.5 | 1125.2 | 1234.2 | 1276.5 | 1516.3 |
| 40° | 2400.7 | 2436.0 | 2417.4 | 2356.4 | 2023.3 | 1589.0 | 1241.1 | 1194.9 | 1323.7 | 1403.3 | 1665.6 |
| 42.5° | 2511.7 | 2495.0 | 2605.1 | 2549.0 | 2357.4 | 1874.0 | 1478.9 | 1361.0 | 1534.9 | 1611.6 | 1889.7 |
| 45° | 2570.7 | 2634.5 | 2718.1 | 2789.8 | 2667.0 | 2229.7 | 1789.4 | 1654.8 | 1858.2 | 1955.5 | 2222.8 |
| 47.5° | 2722.0 | 2747.5 | 2883.2 | 2973.6 | 2918.5 | 2636.5 | 2261.1 | 2084.2 | 2265.1 | 2418.4 | 2604.1 |
| 50° | 2810.4 | 2776.0 | 2965.7 | 3103.3 | 3134.7 | 2973.6 | 2683.7 | 2546.1 | 2748.5 | 2944.1 | 2960.8 |
| 52.5° | 2732.8 | 2831.1 | 3020.7 | 3267.4 | 3354.8 | 3274.3 | 3179.9 | 3120.0 | 3262.5 | 3443.3 | 3362.7 |
| 55° | 2460.6 | 2527.4 | 2989.3 | 3447.2 | 3729.2 | 3691.9 | 3779.4 | 3740.0 | 3883.5 | 4075.1 | 3832.4 |
| 57.5° | 2241.5 | 2325.0 | 2730.8 | 3540.6 | 4078.1 | 4188.1 | 4298.2 | 4273.6 | 4446.6 | 4667.7 | 4230.4 |
| 60° | 2104.9 | 2153.0 | 2544.1 | 3517.0 | 4284.4 | 4701.1 | 4949.7 | 4776.8 | 5058.8 | 5227.8 | 4541.9 |
| 62.5° | 1868.1 | 1898.5 | 2271.9 | 3204.5 | 4346.4 | 5063.7 | 5485.3 | 5250.4 | 5495.1 | 5701.5 | 4766.0 |
| 65° | 1497.6 | 1580.1 | 1888.7 | 2736.7 | 3937.6 | 5130.5 | 5819.4 | 5543.2 | 5780.1 | 5915.7 | 4833.8 |
| 66° | 1363.0 | 1422.9 | 1705.9 | 2489.1 | 3704.7 | 5019.5 | 5763.4 | 5604.2 | 5821.3 | 5945.2 | 4729.6 |
| 67.5° | 1131.1 | 1183.1 | 1408.2 | 2136.3 | 3228.1 | 4774.8 | 5802.7 | 5562.9 | 5852.8 | 5777.1 | 4590.1 |
| 70° | 748.8 | 782.2 | 963.0 | 1444.5 | 2248.4 | 3906.1 | 5382.1 | 5240.6 | 5145.3 | 4861.3 | 3588.7 |
| 72.5° | 349.8 | 398.0 | 601.4 | 875.6 | 1318.7 | 2732.8 | 4388.6 | 4199.0 | 3608.4 | 3154.4 | 2264.1 |
| 75° | 158.2 | 179.8 | 330.2 | 502.1 | 591.6 | 1416.0 | 2831.1 | 2556.9 | 1796.3 | 1491.7 | 991.5 |
| 77.5° | 85.5 | 97.3 | 161.2 | 238.8 | 215.2 | 496.2 | 1401.3 | 1165.4 | 566.0 | 414.7 | 287.9 |
| 80° | 65.8 | 77.6 | 134.6 | 136.6 | 79.6 | 128.7 | 520.8 | 360.6 | 141.5 | 107.1 | 68.8 |
| 82.5° | 34.4 | 49.1 | 106.1 | 88.4 | 40.3 | 52.1 | 161.2 | 100.2 | 44.2 | 35.4 | 29.5 |
| 85° | 13.8 | 21.6 | 59.9 | 59.0 | 23.6 | 17.7 | 45.2 | 30.5 | 17.7 | 14.7 | 13.8 |
| 87.5° | 1.0 | 1.0 | 32.4 | 22.6 | 14.7 | 4.9 | 6.9 | 6.9 | 8.8 | 7.9 | 9.8 |
| 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° | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 |
| 2.5° | 1067.2 | 1079.0 | 1080.9 | 1113.4 | 1120.2 | 1113.4 | 1131.1 | 1128.1 | 1136.0 | 1130.1 | 1119.3 |
| 5° | 1091.7 | 1108.5 | 1140.9 | 1165.4 | 1165.4 | 1145.8 | 1130.1 | 1109.4 | 1079.0 | 1071.1 | 1065.2 |
| 7.5° | 1134.0 | 1187.1 | 1216.5 | 1200.8 | 1169.4 | 1095.7 | 993.5 | 918.8 | 855.9 | 832.3 | 821.5 |
| 10° | 1208.7 | 1238.2 | 1272.6 | 1208.7 | 1078.0 | 921.7 | 749.8 | 636.8 | 548.3 | 528.7 | 513.9 |
| 12.5° | 1256.8 | 1304.0 | 1323.7 | 1165.4 | 909.0 | 676.1 | 489.4 | 361.6 | 299.7 | 252.5 | 244.7 |
| 15° | 1319.7 | 1373.8 | 1333.5 | 1048.5 | 716.4 | 443.2 | 253.5 | 158.2 | 128.7 | 120.9 | 120.9 |
| 17.5° | 1363.0 | 1421.9 | 1293.2 | 903.1 | 508.0 | 235.8 | 125.8 | 109.1 | 107.1 | 108.1 | 106.1 |
| 20° | 1438.6 | 1474.0 | 1232.3 | 734.1 | 303.6 | 120.9 | 101.2 | 97.3 | 95.3 | 98.3 | 96.3 |
| 22.5° | 1467.1 | 1499.6 | 1133.0 | 531.6 | 136.6 | 80.6 | 75.7 | 72.7 | 74.7 | 73.7 | 72.7 |
| 25° | 1465.2 | 1481.9 | 969.9 | 304.6 | 40.3 | 31.4 | 28.5 | 28.5 | 26.5 | 27.5 | 26.5 |
| 27.5° | 1479.9 | 1438.6 | 787.1 | 90.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 1487.8 | 1368.9 | 560.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 1491.7 | 1332.5 | 360.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 1522.2 | 1259.8 | 154.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 1542.8 | 1166.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 1628.3 | 1137.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 1739.3 | 1081.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 1893.6 | 1000.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 2098.0 | 952.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 2250.3 | 876.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 2443.9 | 831.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 2673.8 | 833.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 2883.2 | 819.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 2990.3 | 700.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 2967.7 | 567.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 2889.1 | 445.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 66° | 2835.0 | 394.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 2670.9 | 315.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 2125.5 | 216.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1352.2 | 132.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 623.0 | 60.9 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 195.6 | 37.3 | 7.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 51.1 | 23.6 | 7.9 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 26.5 | 16.7 | 6.9 | 2.9 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 16.7 | 6.9 | 2.9 | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 14.7 | 3.9 | 2.0 | 2.0 | 1.0 | 0.0 | 0.0 | 0.0 | 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)