

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: P481393

Luminaire Tested: **IFLD-S-SA3A-827-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481393
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-827-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

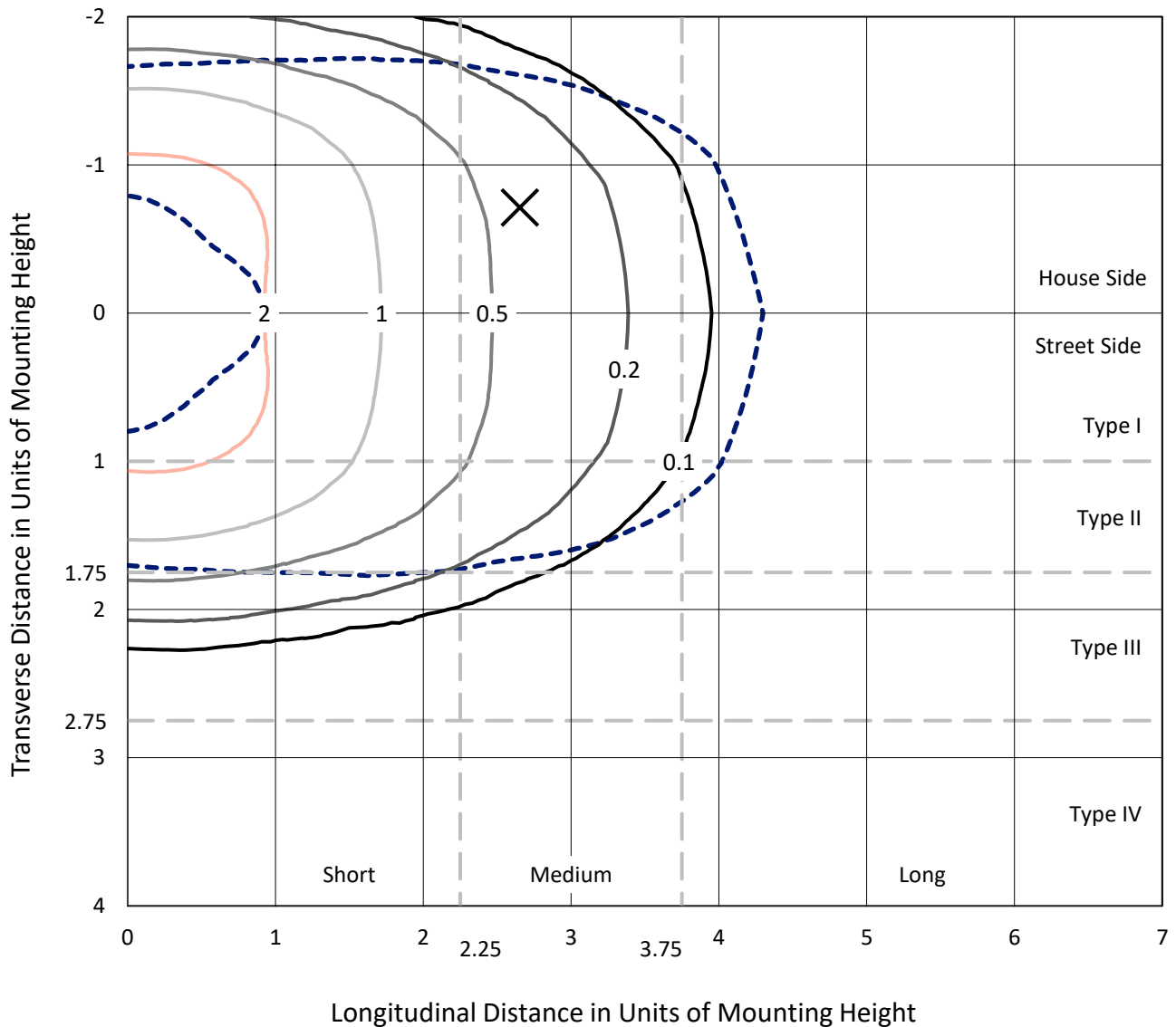
Lumens per Lamp: N/A
Luminaire Lumens: 10417.6 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 94.8
Input Voltage (V): 120
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

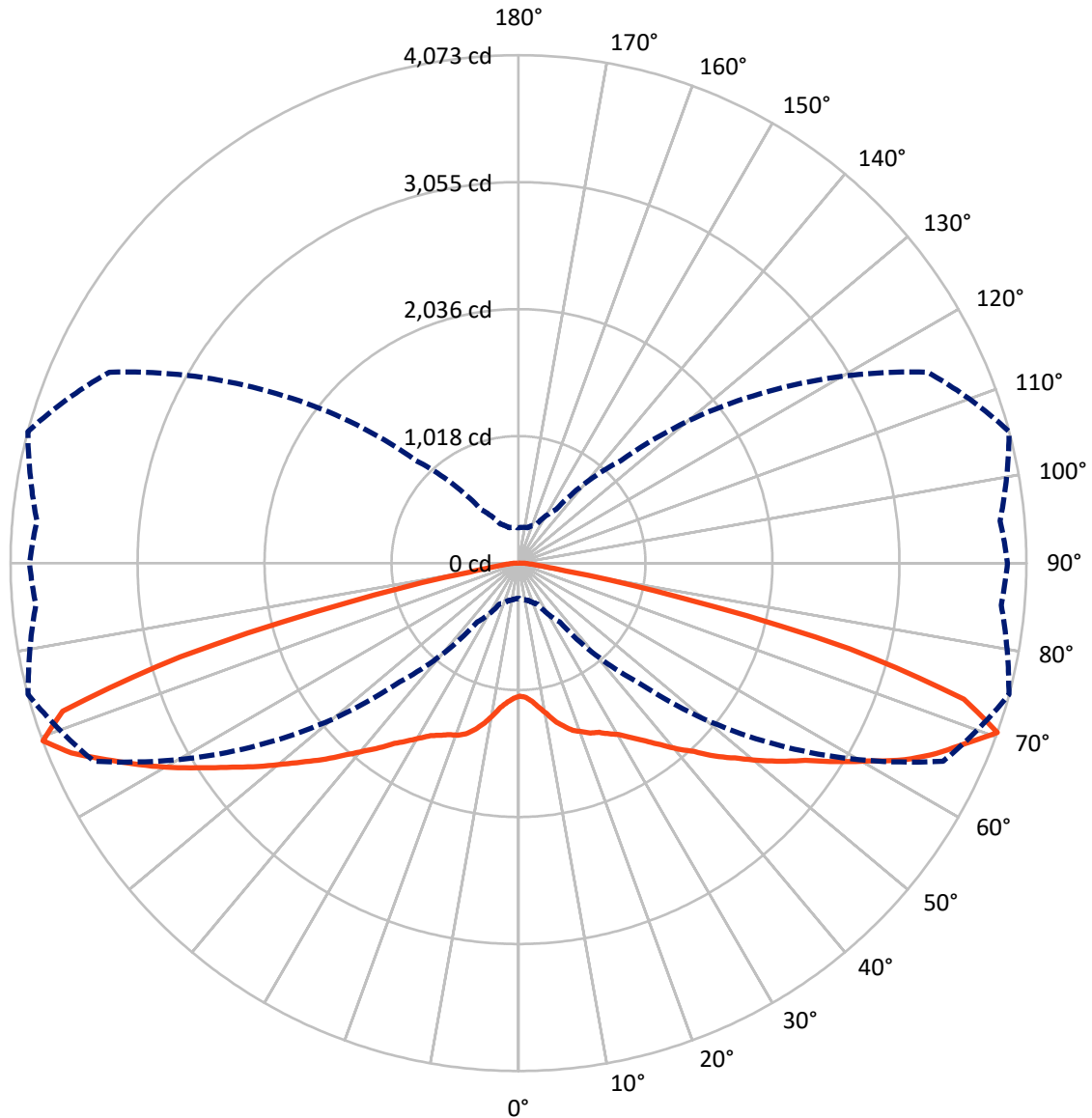
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5171.7 | 0.0 | 5171.7 |
| | % Fixture | 49.6 | 0.0 | 49.6 |
| Street Side | Lumens | 5245.8 | 0.0 | 5245.8 |
| | % Fixture | 50.4 | 0.0 | 50.4 |
| Total | Lumens | 10417.6 | 0.0 | 10417.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 106.2 | 1.0 |
| 10°-20° | 361.5 | 3.5 |
| 20°-30° | 700.0 | 6.7 |
| 30°-40° | 1184.1 | 11.4 |
| 40°-50° | 1888.9 | 18.1 |
| 50°-60° | 2585.5 | 24.8 |
| 60°-70° | 2437.0 | 23.4 |
| 70°-80° | 1073.6 | 10.3 |
| 80°-90° | 80.8 | 0.8 |
| 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° | 10417.6 | 100.0 |
| 0°-180° | 10417.6 | 100.0 |

Coefficient of Utilization



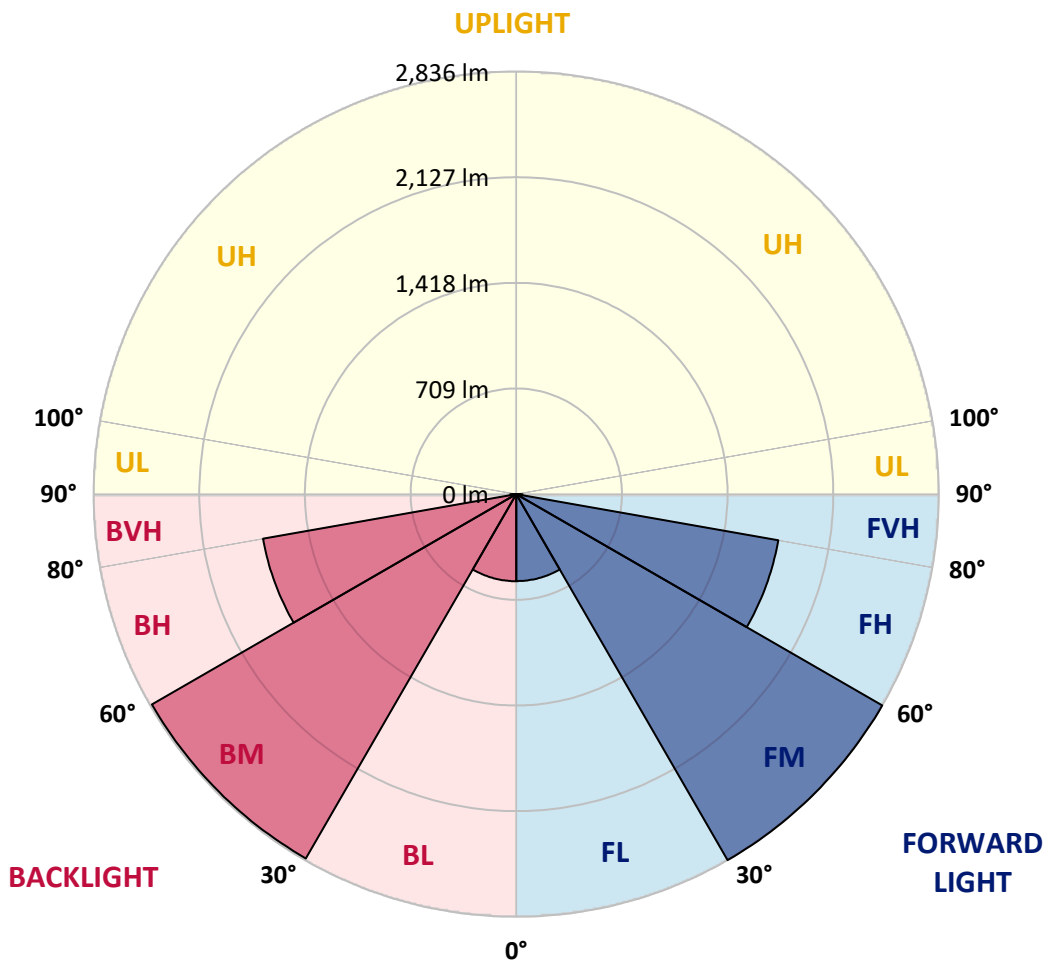
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 583.6 | 5.6 | | | |
| FM (30°-60°) | 2835.6 | 27.2 | | | |
| FH (60°-80°) | 1785.5 | 17.1 | | | G1/1800 |
| FVH (80°-90°) | 41.3 | 0.4 | | | G1/100 |
| BL (0°-30°) | 584.2 | 5.6 | B2/1000 | | |
| BM (30°-60°) | 2822.9 | 27.1 | B3/5000 | | |
| BH (60°-80°) | 1725.1 | 16.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 39.5 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1066.8 | 1066.8 | 1066.8 | 1066.8 | 1066.8 | 1066.8 | 1066.8 | 1066.8 | 1066.8 | 1066.8 | 1066.8 |
| 2.5° | 1060.0 | 1060.0 | 1058.9 | 1064.5 | 1070.1 | 1072.4 | 1076.9 | 1078.0 | 1084.7 | 1079.1 | 1090.3 |
| 5° | 1056.6 | 1055.5 | 1064.5 | 1078.0 | 1078.0 | 1092.6 | 1101.6 | 1113.9 | 1117.3 | 1124.0 | 1126.3 |
| 7.5° | 1080.2 | 1078.0 | 1073.5 | 1088.1 | 1100.4 | 1122.9 | 1135.2 | 1156.6 | 1164.4 | 1173.4 | 1183.5 |
| 10° | 1094.8 | 1094.8 | 1090.3 | 1116.2 | 1127.4 | 1157.7 | 1184.7 | 1206.0 | 1236.3 | 1246.4 | 1247.5 |
| 12.5° | 1097.1 | 1100.4 | 1113.9 | 1147.6 | 1179.0 | 1218.3 | 1238.6 | 1279.0 | 1309.3 | 1328.4 | 1335.1 |
| 15° | 1130.8 | 1124.0 | 1138.6 | 1184.7 | 1230.7 | 1265.5 | 1301.4 | 1330.6 | 1374.4 | 1399.1 | 1414.8 |
| 17.5° | 1161.1 | 1154.3 | 1181.3 | 1236.3 | 1283.5 | 1337.4 | 1368.8 | 1400.3 | 1431.7 | 1454.1 | 1455.3 |
| 20° | 1209.4 | 1215.0 | 1238.6 | 1298.1 | 1359.8 | 1407.0 | 1442.9 | 1448.5 | 1464.3 | 1496.8 | 1491.2 |
| 22.5° | 1268.9 | 1264.4 | 1313.8 | 1378.9 | 1446.3 | 1485.6 | 1505.8 | 1491.2 | 1483.3 | 1518.2 | 1526.0 |
| 25° | 1328.4 | 1341.9 | 1386.8 | 1447.4 | 1528.3 | 1581.0 | 1586.7 | 1546.2 | 1517.0 | 1529.4 | 1526.0 |
| 27.5° | 1419.3 | 1421.6 | 1468.7 | 1540.6 | 1622.6 | 1668.6 | 1665.3 | 1608.0 | 1551.8 | 1553.0 | 1555.2 |
| 30° | 1536.1 | 1524.9 | 1576.5 | 1641.7 | 1722.5 | 1764.1 | 1769.7 | 1687.7 | 1612.5 | 1590.0 | 1595.6 |
| 32.5° | 1648.4 | 1661.9 | 1706.8 | 1780.9 | 1840.4 | 1864.0 | 1851.7 | 1778.7 | 1681.0 | 1650.7 | 1654.0 |
| 35° | 1792.1 | 1789.9 | 1851.7 | 1914.5 | 1959.5 | 1963.9 | 1953.8 | 1847.2 | 1755.1 | 1715.8 | 1700.1 |
| 37.5° | 1946.0 | 1966.2 | 2006.6 | 2058.3 | 2105.4 | 2107.7 | 2052.7 | 1967.3 | 1853.9 | 1788.8 | 1807.9 |
| 40° | 2117.8 | 2140.2 | 2169.4 | 2244.7 | 2279.5 | 2243.5 | 2187.4 | 2071.7 | 1953.8 | 1896.6 | 1905.6 |
| 42.5° | 2269.4 | 2279.5 | 2339.0 | 2427.7 | 2444.5 | 2428.8 | 2345.7 | 2205.4 | 2068.4 | 2005.5 | 2010.0 |
| 45° | 2408.6 | 2422.1 | 2499.6 | 2579.3 | 2618.6 | 2591.6 | 2495.1 | 2361.4 | 2202.0 | 2148.1 | 2126.8 |
| 47.5° | 2536.6 | 2563.6 | 2638.8 | 2720.8 | 2781.4 | 2783.7 | 2664.6 | 2502.9 | 2334.5 | 2263.8 | 2262.6 |
| 50° | 2623.1 | 2662.4 | 2736.5 | 2829.7 | 2918.4 | 2953.2 | 2834.2 | 2660.1 | 2479.4 | 2404.1 | 2396.3 |
| 52.5° | 2670.2 | 2710.7 | 2784.8 | 2929.6 | 3028.4 | 3082.3 | 3026.2 | 2807.2 | 2648.9 | 2570.3 | 2558.0 |
| 55° | 2613.0 | 2639.9 | 2761.2 | 2964.4 | 3117.2 | 3205.9 | 3168.8 | 3010.5 | 2817.3 | 2753.3 | 2764.6 |
| 57.5° | 2369.3 | 2425.5 | 2574.8 | 2828.6 | 3114.9 | 3332.8 | 3329.4 | 3202.5 | 3011.6 | 2951.0 | 2953.2 |
| 60° | 1950.5 | 1997.6 | 2181.8 | 2536.6 | 2989.1 | 3384.4 | 3503.4 | 3388.9 | 3229.4 | 3158.7 | 3156.5 |
| 62.5° | 1376.7 | 1436.2 | 1649.5 | 2036.9 | 2618.6 | 3312.5 | 3703.3 | 3623.6 | 3442.8 | 3391.1 | 3410.2 |
| 65° | 770.3 | 806.2 | 1003.9 | 1354.2 | 1995.4 | 2917.3 | 3739.2 | 3867.3 | 3659.5 | 3580.9 | 3584.3 |
| 67.5° | 412.1 | 425.6 | 517.7 | 710.8 | 1220.6 | 2249.2 | 3376.5 | 4007.6 | 3894.2 | 3758.3 | 3737.0 |
| 70° | 283.0 | 287.5 | 311.0 | 363.8 | 577.2 | 1345.2 | 2546.7 | 3757.2 | 4070.5 | 3885.2 | 3921.1 |
| 72.5° | 239.2 | 236.9 | 242.5 | 248.2 | 302.1 | 601.9 | 1494.6 | 2891.5 | 3842.5 | 3772.9 | 3759.5 |
| 75° | 207.7 | 206.6 | 208.9 | 203.2 | 210.0 | 265.0 | 661.4 | 1802.2 | 2812.9 | 3139.6 | 3190.1 |
| 77.5° | 171.8 | 172.9 | 174.0 | 168.4 | 166.2 | 175.2 | 266.1 | 791.6 | 1384.5 | 1528.3 | 1648.4 |
| 80° | 130.3 | 132.5 | 141.5 | 135.9 | 126.9 | 128.0 | 157.2 | 265.0 | 397.5 | 360.4 | 371.7 |
| 82.5° | 88.7 | 89.8 | 108.9 | 102.2 | 95.4 | 86.5 | 101.1 | 137.0 | 155.0 | 117.9 | 103.3 |
| 85° | 62.9 | 61.8 | 70.7 | 65.1 | 60.6 | 43.8 | 60.6 | 77.5 | 93.2 | 58.4 | 52.8 |
| 87.5° | 14.6 | 14.6 | 29.2 | 23.6 | 22.5 | 18.0 | 23.6 | 30.3 | 40.4 | 25.8 | 23.6 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1066.8 | 1066.8 | 1066.8 | 1066.8 | 1066.8 | 1066.8 | 1066.8 | 1066.8 | 1066.8 | 1066.8 |
| 2.5° | 1087.0 | 1076.9 | 1076.9 | 1074.6 | 1065.6 | 1063.4 | 1055.5 | 1057.8 | 1052.2 | 1046.5 |
| 5° | 1125.1 | 1111.7 | 1111.7 | 1092.6 | 1074.6 | 1072.4 | 1063.4 | 1063.4 | 1054.4 | 1056.6 |
| 7.5° | 1177.9 | 1165.6 | 1145.4 | 1128.5 | 1103.8 | 1093.7 | 1076.9 | 1074.6 | 1072.4 | 1067.9 |
| 10° | 1240.8 | 1225.1 | 1204.9 | 1170.1 | 1149.8 | 1130.8 | 1113.9 | 1090.3 | 1084.7 | 1085.8 |
| 12.5° | 1326.1 | 1301.4 | 1257.6 | 1227.3 | 1201.5 | 1176.8 | 1152.1 | 1117.3 | 1109.4 | 1112.8 |
| 15° | 1386.8 | 1355.3 | 1311.5 | 1300.3 | 1265.5 | 1235.2 | 1194.8 | 1155.5 | 1142.0 | 1138.6 |
| 17.5° | 1436.2 | 1410.4 | 1384.5 | 1367.7 | 1339.6 | 1302.6 | 1246.4 | 1201.5 | 1171.2 | 1167.8 |
| 20° | 1476.6 | 1442.9 | 1437.3 | 1447.4 | 1412.6 | 1387.9 | 1319.4 | 1264.4 | 1224.0 | 1207.1 |
| 22.5° | 1501.3 | 1480.0 | 1495.7 | 1504.7 | 1502.4 | 1460.9 | 1390.1 | 1326.1 | 1275.6 | 1259.9 |
| 25° | 1528.3 | 1503.6 | 1559.7 | 1590.0 | 1597.9 | 1529.4 | 1474.4 | 1390.1 | 1340.7 | 1330.6 |
| 27.5° | 1541.7 | 1550.7 | 1615.8 | 1679.9 | 1674.2 | 1621.5 | 1547.3 | 1472.1 | 1432.8 | 1414.8 |
| 30° | 1581.0 | 1595.6 | 1694.4 | 1766.3 | 1767.4 | 1715.8 | 1659.6 | 1574.3 | 1530.5 | 1522.6 |
| 32.5° | 1651.8 | 1669.7 | 1775.3 | 1851.7 | 1865.1 | 1825.8 | 1769.7 | 1716.9 | 1672.0 | 1654.0 |
| 35° | 1705.7 | 1751.7 | 1870.7 | 1940.4 | 1976.3 | 1952.7 | 1921.3 | 1866.3 | 1819.1 | 1803.4 |
| 37.5° | 1783.2 | 1847.2 | 1961.7 | 2056.0 | 2096.4 | 2094.2 | 2070.6 | 2011.1 | 1971.8 | 1958.3 |
| 40° | 1894.3 | 1958.3 | 2062.8 | 2187.4 | 2262.6 | 2259.3 | 2245.8 | 2199.8 | 2141.4 | 2134.6 |
| 42.5° | 2012.2 | 2065.0 | 2200.9 | 2343.5 | 2451.3 | 2440.1 | 2404.1 | 2350.2 | 2309.8 | 2300.8 |
| 45° | 2126.8 | 2208.7 | 2334.5 | 2517.5 | 2598.4 | 2626.5 | 2583.8 | 2491.7 | 2445.7 | 2440.1 |
| 47.5° | 2270.5 | 2335.6 | 2492.8 | 2656.8 | 2776.9 | 2781.4 | 2708.4 | 2623.1 | 2538.9 | 2556.8 |
| 50° | 2398.5 | 2485.0 | 2644.4 | 2824.1 | 2967.8 | 2916.2 | 2823.0 | 2716.3 | 2655.6 | 2632.1 |
| 52.5° | 2535.5 | 2641.0 | 2826.3 | 3009.4 | 3089.1 | 3037.4 | 2885.8 | 2766.8 | 2674.7 | 2664.6 |
| 55° | 2735.4 | 2790.4 | 3032.9 | 3173.3 | 3199.1 | 3090.2 | 2866.8 | 2698.3 | 2579.3 | 2550.1 |
| 57.5° | 2938.6 | 3002.6 | 3214.8 | 3336.1 | 3309.2 | 3061.0 | 2743.2 | 2482.7 | 2326.6 | 2285.1 |
| 60° | 3144.1 | 3222.7 | 3401.2 | 3512.4 | 3373.2 | 2860.0 | 2394.0 | 2058.3 | 1876.4 | 1839.3 |
| 62.5° | 3373.2 | 3475.4 | 3634.8 | 3674.1 | 3183.4 | 2462.5 | 1899.9 | 1485.6 | 1301.4 | 1239.7 |
| 65° | 3576.4 | 3680.9 | 3877.4 | 3640.4 | 2780.3 | 1837.1 | 1228.4 | 848.9 | 713.0 | 663.6 |
| 67.5° | 3743.7 | 3861.6 | 3958.2 | 3221.6 | 2035.8 | 1075.7 | 640.1 | 446.9 | 396.4 | 378.4 |
| 70° | 3876.2 | 4072.7 | 3621.3 | 2368.2 | 1163.3 | 524.4 | 345.9 | 294.2 | 287.5 | 283.0 |
| 72.5° | 3760.6 | 3734.7 | 2703.9 | 1366.6 | 509.8 | 288.6 | 250.4 | 242.5 | 241.4 | 242.5 |
| 75° | 3075.6 | 2743.2 | 1617.0 | 594.0 | 256.0 | 208.9 | 207.7 | 204.4 | 210.0 | 210.0 |
| 77.5° | 1492.3 | 1304.8 | 676.0 | 254.9 | 168.4 | 163.9 | 169.6 | 169.6 | 169.6 | 169.6 |
| 80° | 345.9 | 382.9 | 241.4 | 155.0 | 122.4 | 122.4 | 134.7 | 135.9 | 130.3 | 128.0 |
| 82.5° | 117.9 | 157.2 | 132.5 | 97.7 | 80.8 | 91.0 | 102.2 | 104.4 | 86.5 | 87.6 |
| 85° | 58.4 | 92.1 | 71.9 | 56.1 | 41.5 | 56.1 | 66.3 | 69.6 | 59.5 | 57.3 |
| 87.5° | 26.9 | 40.4 | 26.9 | 19.1 | 14.6 | 20.2 | 19.1 | 15.7 | 9.0 | 9.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)