

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: P477606

Luminaire Tested: **IFLD-S-SA2B-722-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477606
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-722-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

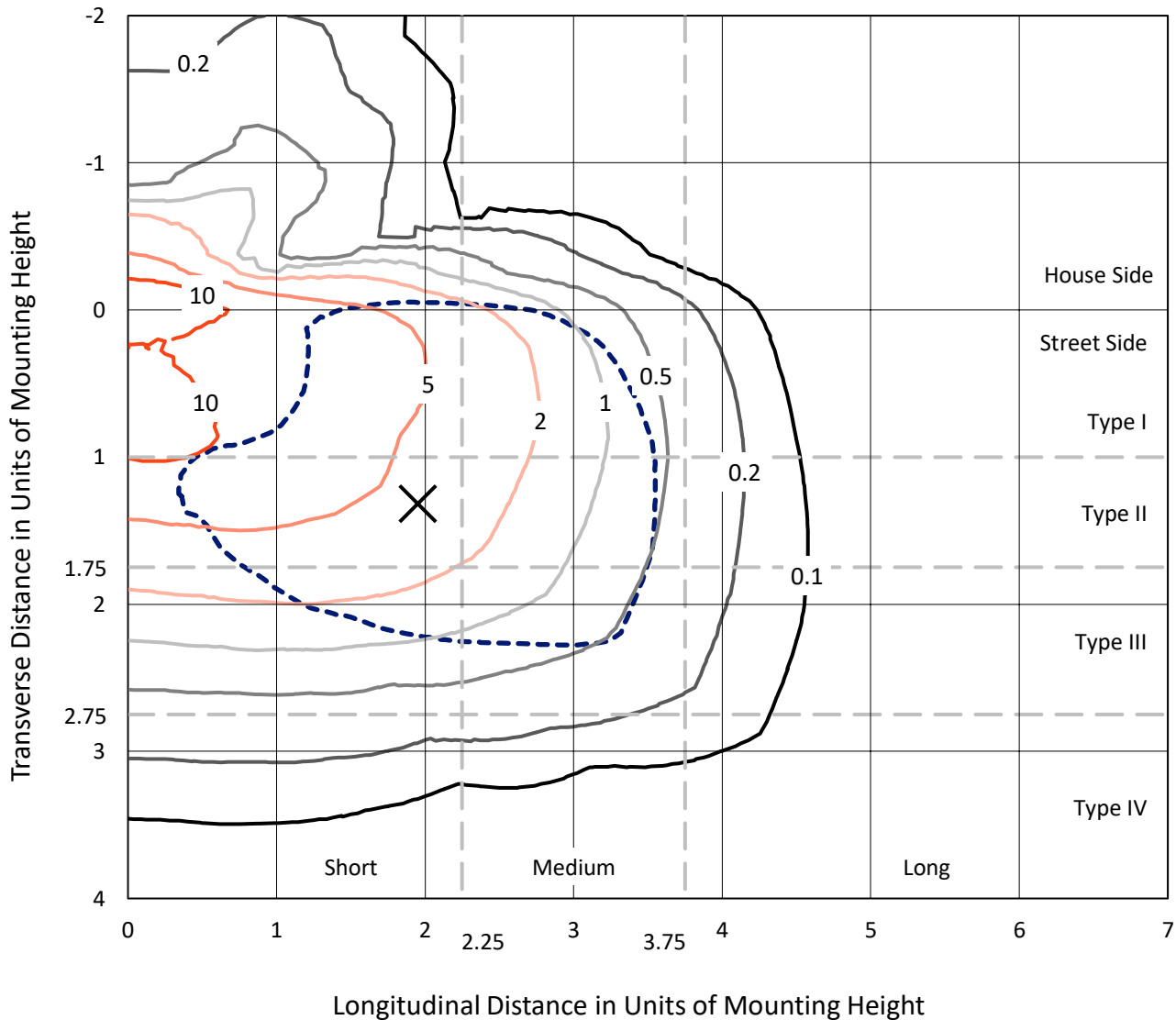
Lumens per Lamp: N/A
Luminaire Lumens: 8261.4 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (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

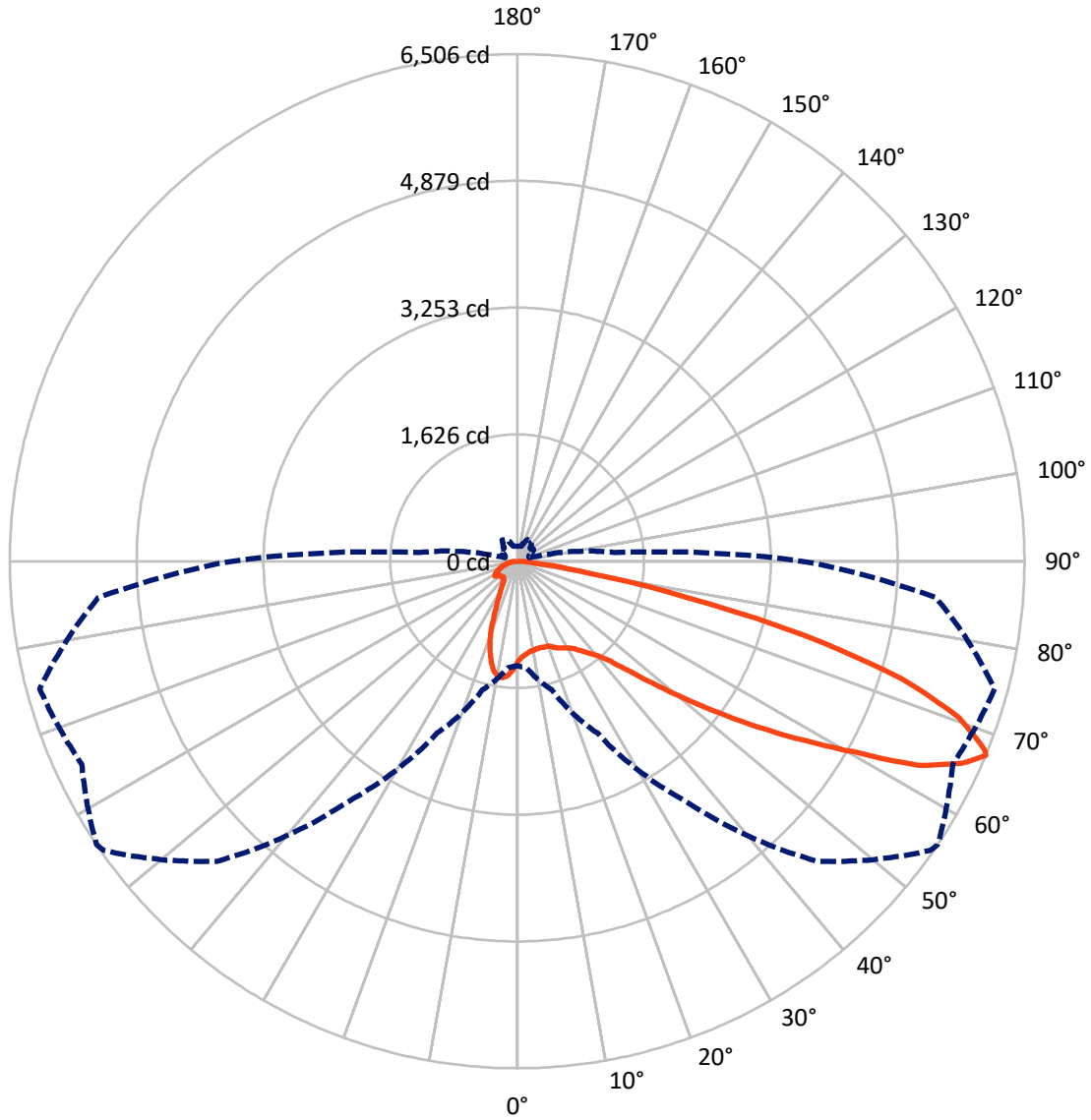
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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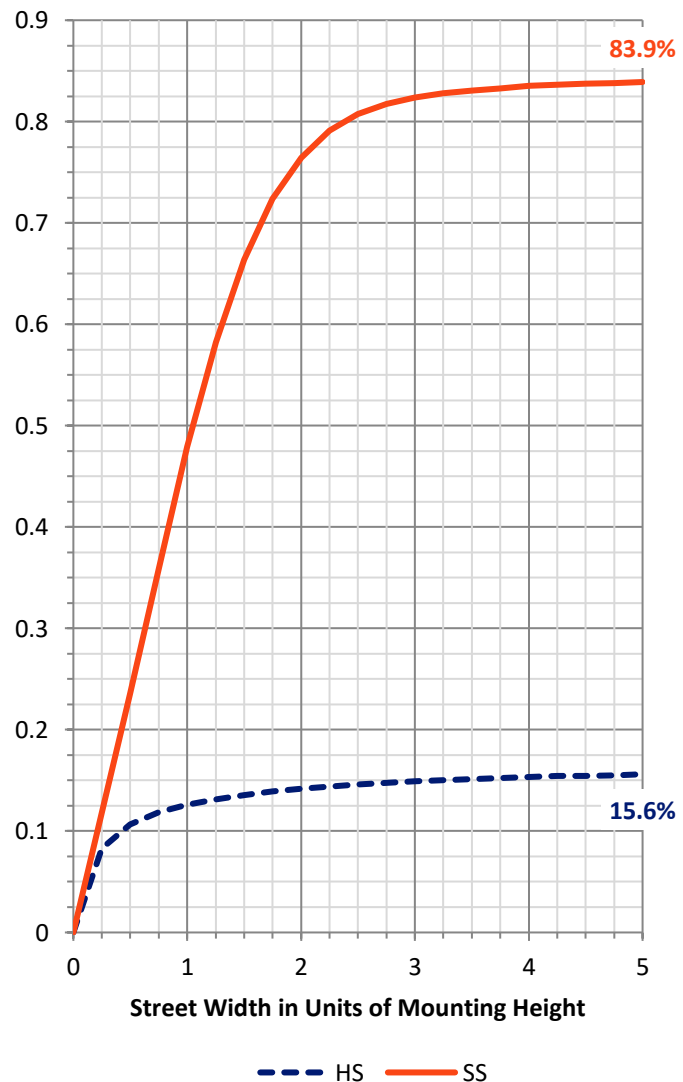
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1307.9 | 0.0 | 1307.9 |
| | % Fixture | 15.8 | 0.0 | 15.8 |
| Street Side | Lumens | 6953.6 | 0.0 | 6953.6 |
| | % Fixture | 84.2 | 0.0 | 84.2 |
| Total | Lumens | 8261.4 | 0.0 | 8261.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 123.8 | 1.5 |
| 10°-20° | 337.8 | 4.1 |
| 20°-30° | 529.8 | 6.4 |
| 30°-40° | 756.4 | 9.2 |
| 40°-50° | 1141.6 | 13.8 |
| 50°-60° | 1817.2 | 22.0 |
| 60°-70° | 2323.1 | 28.1 |
| 70°-80° | 1132.7 | 13.7 |
| 80°-90° | 99.1 | 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° | 8261.4 | 100.0 |
| 0°-180° | 8261.4 | 100.0 |

Coefficient of Utilization

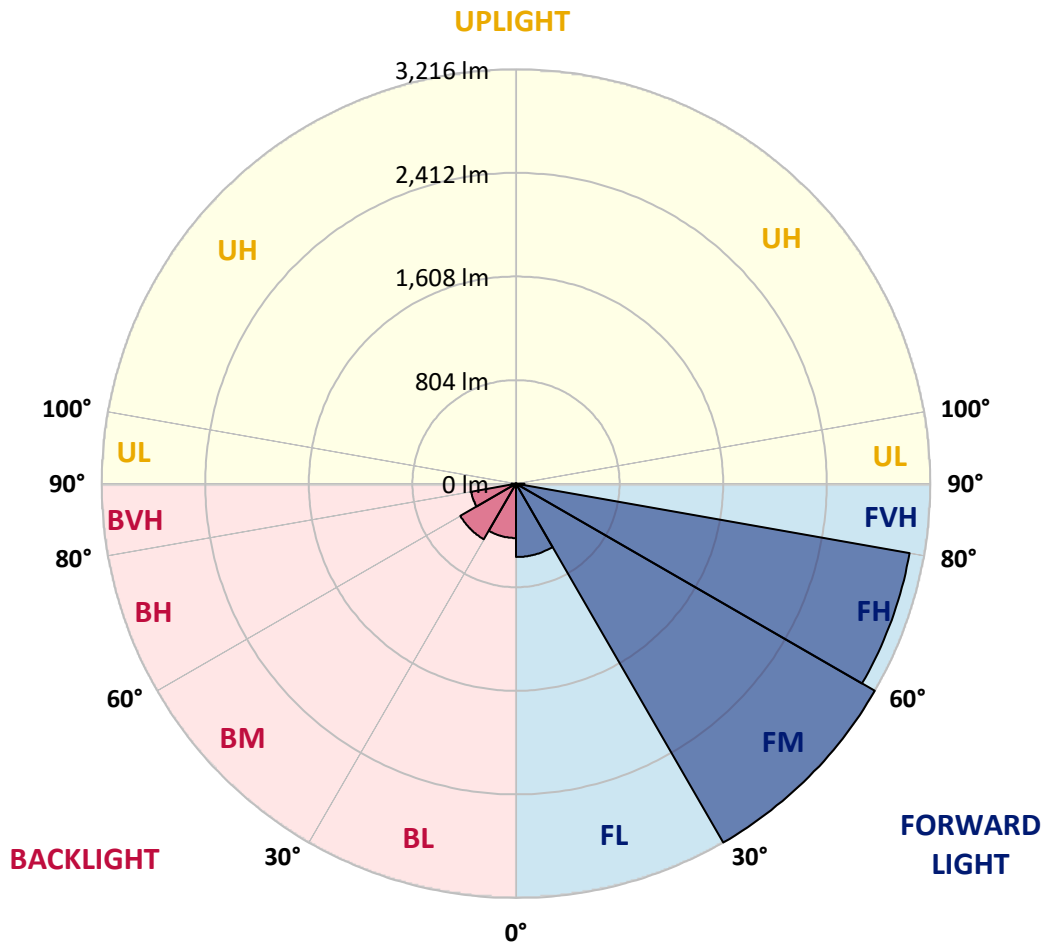


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 569.3 | 6.9 | | | |
| FM (30°-60°) | 3216.1 | 38.9 | | | |
| FH (60°-80°) | 3102.4 | 37.6 | | | G2/5000 |
| FVH (80°-90°) | 65.8 | 0.8 | | | G1/100 |
| BL (0°-30°) | 422.2 | 5.1 | B1/500 | | |
| BM (30°-60°) | 499.0 | 6.0 | B1/1000 | | |
| BH (60°-80°) | 353.4 | 4.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 33.3 | 0.4 | | | G1/100 |
| 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° | 56° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1285.5 | 1285.5 | 1285.5 | 1285.5 | 1285.5 | 1285.5 | 1285.5 | 1285.5 | 1285.5 | 1285.5 |
| 2.5° | 1180.8 | 1176.0 | 1181.8 | 1176.0 | 1202.2 | 1217.6 | 1222.5 | 1229.3 | 1253.5 | 1276.7 |
| 5° | 1131.4 | 1110.1 | 1133.4 | 1141.1 | 1143.1 | 1169.2 | 1196.3 | 1201.2 | 1213.8 | 1251.6 |
| 7.5° | 1049.1 | 1073.3 | 1064.6 | 1087.8 | 1112.1 | 1138.2 | 1182.8 | 1170.2 | 1216.7 | 1252.5 |
| 10° | 1031.7 | 1033.6 | 1043.3 | 1052.0 | 1073.3 | 1107.2 | 1169.2 | 1161.5 | 1208.9 | 1285.5 |
| 12.5° | 1049.1 | 1049.1 | 1046.2 | 1039.4 | 1063.6 | 1096.6 | 1146.0 | 1149.8 | 1224.4 | 1295.1 |
| 15° | 1110.1 | 1121.7 | 1090.8 | 1095.6 | 1085.9 | 1096.6 | 1140.2 | 1148.9 | 1230.2 | 1302.9 |
| 17.5° | 1259.3 | 1255.4 | 1218.6 | 1167.3 | 1124.7 | 1117.9 | 1147.9 | 1157.6 | 1224.4 | 1325.2 |
| 20° | 1404.6 | 1396.9 | 1332.9 | 1279.6 | 1195.4 | 1155.7 | 1160.5 | 1161.5 | 1234.1 | 1339.7 |
| 22.5° | 1566.4 | 1586.7 | 1517.0 | 1408.5 | 1303.9 | 1205.1 | 1185.7 | 1201.2 | 1256.4 | 1347.5 |
| 25° | 1820.2 | 1776.6 | 1716.5 | 1574.1 | 1405.6 | 1281.6 | 1227.3 | 1235.1 | 1277.7 | 1366.8 |
| 27.5° | 2003.3 | 1985.8 | 1891.9 | 1776.6 | 1548.0 | 1341.6 | 1249.6 | 1264.1 | 1316.5 | 1365.9 |
| 30° | 2179.6 | 2179.6 | 2122.4 | 1950.0 | 1698.1 | 1442.4 | 1297.1 | 1290.3 | 1298.1 | 1363.9 |
| 32.5° | 2385.9 | 2357.8 | 2275.5 | 2161.2 | 1887.0 | 1534.4 | 1334.9 | 1336.8 | 1336.8 | 1399.8 |
| 35° | 2494.4 | 2539.9 | 2484.7 | 2298.7 | 2031.4 | 1687.5 | 1425.9 | 1411.4 | 1400.7 | 1439.5 |
| 37.5° | 2653.3 | 2680.4 | 2622.3 | 2512.8 | 2210.6 | 1811.5 | 1506.3 | 1494.7 | 1432.7 | 1470.5 |
| 40° | 2749.2 | 2744.3 | 2742.4 | 2692.0 | 2447.9 | 1957.7 | 1624.5 | 1594.5 | 1511.2 | 1579.9 |
| 42.5° | 2803.4 | 2793.7 | 2912.9 | 2881.9 | 2671.7 | 2172.8 | 1772.7 | 1756.2 | 1664.2 | 1774.6 |
| 45° | 2864.4 | 2936.1 | 3034.0 | 3121.1 | 2932.2 | 2475.0 | 2023.6 | 2000.4 | 1918.0 | 2058.5 |
| 47.5° | 2917.7 | 3005.9 | 3130.8 | 3223.8 | 3167.6 | 2803.4 | 2333.6 | 2339.4 | 2285.2 | 2429.5 |
| 50° | 3006.8 | 3015.5 | 3185.1 | 3373.0 | 3416.6 | 3106.6 | 2750.1 | 2740.4 | 2716.2 | 2918.7 |
| 52.5° | 2979.7 | 3005.9 | 3219.9 | 3460.2 | 3531.9 | 3427.2 | 3197.7 | 3226.7 | 3194.8 | 3449.5 |
| 55° | 2538.0 | 2616.4 | 3198.6 | 3552.2 | 3805.0 | 3789.5 | 3773.1 | 3753.7 | 3751.8 | 4046.2 |
| 57.5° | 2337.5 | 2401.4 | 2817.9 | 3653.9 | 4097.6 | 4211.9 | 4318.4 | 4339.8 | 4338.8 | 4694.3 |
| 60° | 2205.7 | 2271.6 | 2663.9 | 3598.7 | 4346.5 | 4765.0 | 4969.4 | 4972.3 | 4966.5 | 5386.9 |
| 62.5° | 1948.0 | 2012.0 | 2397.5 | 3296.5 | 4415.3 | 5275.5 | 5730.8 | 5768.6 | 5502.2 | 5983.6 |
| 65° | 1638.1 | 1690.4 | 2030.4 | 2834.4 | 4232.2 | 5600.0 | 6303.3 | 6258.7 | 5953.6 | 6324.6 |
| 67° | 1339.7 | 1374.6 | 1705.9 | 2433.4 | 3753.7 | 5444.1 | 6468.9 | 6505.8 | 6161.9 | 6339.1 |
| 67.5° | 1254.5 | 1286.4 | 1599.3 | 2296.8 | 3571.6 | 5325.9 | 6474.8 | 6468.9 | 6165.7 | 6342.0 |
| 70° | 870.9 | 884.4 | 1089.8 | 1579.9 | 2631.0 | 4499.6 | 6002.0 | 6015.6 | 5907.1 | 5998.2 |
| 72.5° | 577.3 | 597.7 | 728.5 | 995.8 | 1550.9 | 3274.2 | 5016.9 | 5162.2 | 5093.4 | 4918.1 |
| 75° | 372.0 | 383.6 | 476.6 | 592.8 | 763.3 | 1864.7 | 3706.2 | 3803.1 | 3645.2 | 3041.7 |
| 77.5° | 208.3 | 220.9 | 287.7 | 360.4 | 372.0 | 775.9 | 2081.7 | 2201.8 | 1865.7 | 1292.2 |
| 80° | 129.8 | 146.3 | 217.0 | 214.1 | 177.3 | 284.8 | 858.3 | 919.3 | 745.9 | 444.6 |
| 82.5° | 97.8 | 110.4 | 167.6 | 150.1 | 99.8 | 126.9 | 321.6 | 344.9 | 273.2 | 171.5 |
| 85° | 66.8 | 84.3 | 121.1 | 93.0 | 52.3 | 61.0 | 127.9 | 137.6 | 125.0 | 83.3 |
| 87.5° | 24.2 | 35.8 | 63.0 | 46.5 | 23.2 | 18.4 | 41.7 | 46.5 | 44.6 | 37.8 |
| 90° | 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):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1285.5 | 0° | 1285.5 | 1285.5 | 1285.5 | 1285.5 | 1285.5 | 1285.5 | 1285.5 | 1285.5 | 1285.5 | 1285.5 |
| 1297.1 | 2.5° | 1315.5 | 1329.0 | 1335.8 | 1375.5 | 1392.0 | 1389.1 | 1393.0 | 1398.8 | 1404.6 | 1412.4 |
| 1313.6 | 5° | 1326.1 | 1367.8 | 1390.1 | 1436.6 | 1467.6 | 1454.0 | 1471.4 | 1466.6 | 1459.8 | 1458.9 |
| 1343.6 | 7.5° | 1361.0 | 1414.3 | 1481.1 | 1493.7 | 1507.3 | 1473.4 | 1444.3 | 1404.6 | 1394.9 | 1361.0 |
| 1368.8 | 10° | 1423.0 | 1466.6 | 1548.0 | 1552.8 | 1492.8 | 1405.6 | 1340.7 | 1258.3 | 1257.4 | 1208.0 |
| 1407.5 | 12.5° | 1482.1 | 1531.5 | 1597.4 | 1569.3 | 1425.9 | 1306.8 | 1201.2 | 1111.1 | 1073.3 | 1048.1 |
| 1430.8 | 15° | 1518.9 | 1600.3 | 1635.2 | 1514.1 | 1308.7 | 1147.9 | 1011.3 | 914.4 | 875.7 | 857.3 |
| 1459.8 | 17.5° | 1552.8 | 1666.2 | 1650.7 | 1417.2 | 1164.4 | 984.2 | 821.5 | 737.2 | 726.5 | 713.0 |
| 1506.3 | 20° | 1599.3 | 1690.4 | 1595.4 | 1291.3 | 1000.7 | 773.0 | 669.4 | 628.7 | 638.4 | 644.2 |
| 1511.2 | 22.5° | 1642.9 | 1703.0 | 1525.7 | 1153.7 | 790.5 | 612.2 | 560.9 | 569.6 | 584.1 | 603.5 |
| 1522.8 | 25° | 1662.3 | 1723.3 | 1431.7 | 963.9 | 601.6 | 515.3 | 503.7 | 518.3 | 542.5 | 543.4 |
| 1539.3 | 27.5° | 1674.9 | 1708.8 | 1318.4 | 778.8 | 475.6 | 450.4 | 467.9 | 478.5 | 481.4 | 493.1 |
| 1574.1 | 30° | 1697.2 | 1678.7 | 1175.0 | 557.0 | 399.1 | 400.1 | 422.4 | 422.4 | 422.4 | 431.1 |
| 1609.0 | 32.5° | 1735.9 | 1658.4 | 1007.4 | 406.9 | 343.9 | 374.9 | 369.1 | 367.1 | 363.3 | 352.6 |
| 1653.6 | 35° | 1760.1 | 1603.2 | 795.3 | 301.3 | 309.0 | 343.9 | 341.9 | 311.9 | 261.5 | 236.4 |
| 1766.9 | 37.5° | 1810.5 | 1575.1 | 585.1 | 232.5 | 288.7 | 328.4 | 317.7 | 245.1 | 189.9 | 165.6 |
| 1907.4 | 40° | 1919.0 | 1556.7 | 404.9 | 203.4 | 275.1 | 320.6 | 283.8 | 209.2 | 145.3 | 102.7 |
| 2124.3 | 42.5° | 2051.7 | 1557.7 | 275.1 | 191.8 | 276.1 | 337.1 | 273.2 | 179.2 | 102.7 | 82.3 |
| 2414.0 | 45° | 2229.9 | 1543.1 | 188.9 | 191.8 | 293.5 | 364.2 | 280.0 | 162.7 | 99.8 | 104.6 |
| 2777.2 | 47.5° | 2421.7 | 1555.7 | 140.5 | 174.4 | 296.4 | 365.2 | 255.7 | 159.8 | 95.9 | 121.1 |
| 3172.5 | 50° | 2645.5 | 1568.3 | 116.2 | 160.8 | 297.4 | 353.6 | 235.4 | 156.0 | 99.8 | 127.9 |
| 3625.8 | 52.5° | 2876.1 | 1608.0 | 98.8 | 152.1 | 309.0 | 348.7 | 235.4 | 161.8 | 99.8 | 111.4 |
| 4203.2 | 55° | 3219.9 | 1709.7 | 142.4 | 189.9 | 351.6 | 380.7 | 289.6 | 226.7 | 139.5 | 143.4 |
| 4756.3 | 57.5° | 3599.7 | 1814.4 | 158.9 | 199.6 | 361.3 | 342.9 | 311.9 | 249.9 | 147.2 | 148.2 |
| 5186.4 | 60° | 3849.6 | 1818.2 | 157.9 | 194.7 | 338.1 | 296.4 | 305.1 | 263.5 | 150.1 | 126.9 |
| 5452.8 | 62.5° | 3949.4 | 1700.1 | 164.7 | 194.7 | 314.8 | 277.0 | 312.9 | 283.8 | 155.0 | 158.9 |
| 5528.3 | 65° | 3836.0 | 1455.9 | 158.9 | 174.4 | 277.0 | 248.0 | 314.8 | 287.7 | 169.5 | 159.8 |
| 5392.7 | 67° | 3658.8 | 1254.5 | 161.8 | 165.6 | 257.7 | 235.4 | 331.3 | 302.2 | 196.6 | 191.8 |
| 5322.0 | 67.5° | 3608.4 | 1201.2 | 160.8 | 160.8 | 250.9 | 231.5 | 335.2 | 302.2 | 200.5 | 198.6 |
| 4697.2 | 70° | 3180.2 | 973.5 | 164.7 | 158.9 | 221.8 | 219.9 | 356.5 | 318.7 | 230.5 | 232.5 |
| 3450.5 | 72.5° | 2420.8 | 738.1 | 163.7 | 158.9 | 192.8 | 210.2 | 359.4 | 329.4 | 250.9 | 232.5 |
| 1932.5 | 75° | 1375.5 | 441.7 | 144.3 | 138.5 | 152.1 | 183.1 | 336.1 | 313.9 | 244.1 | 208.3 |
| 772.0 | 77.5° | 568.6 | 227.6 | 132.7 | 125.0 | 125.9 | 149.2 | 280.0 | 292.5 | 232.5 | 177.3 |
| 257.7 | 80° | 212.1 | 136.6 | 106.6 | 99.8 | 96.9 | 109.5 | 199.6 | 233.5 | 198.6 | 145.3 |
| 113.3 | 82.5° | 110.4 | 85.2 | 72.7 | 72.7 | 65.9 | 69.7 | 107.5 | 155.0 | 150.1 | 99.8 |
| 45.5 | 85° | 56.2 | 48.4 | 41.7 | 40.7 | 36.8 | 32.9 | 54.2 | 92.0 | 86.2 | 55.2 |
| 20.3 | 87.5° | 30.0 | 27.1 | 17.4 | 16.5 | 13.6 | 8.7 | 9.7 | 18.4 | 30.0 | 24.2 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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| 180° |
|--------|
| 1285.5 |
| 1420.1 |
| 1467.6 |
| 1372.6 |
| 1206.0 |
| 1042.3 |
| 853.4 |
| 719.7 |
| 637.4 |
| 592.8 |
| 553.1 |
| 503.7 |
| 440.8 |
| 346.8 |
| 248.0 |
| 164.7 |
| 99.8 |
| 80.4 |
| 106.6 |
| 134.6 |
| 148.2 |
| 114.3 |
| 151.1 |
| 143.4 |
| 130.8 |
| 160.8 |
| 156.9 |
| 188.9 |
| 194.7 |
| 215.1 |
| 206.3 |
| 186.0 |
| 167.6 |
| 132.7 |
| 78.5 |
| 45.5 |
| 17.4 |
| 0.0 |

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