

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: McGRAW-EDISON

Report Number: P595375

Luminaire Tested: **IST-PA1F-735-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-PA1F-735-U-T3
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10371 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

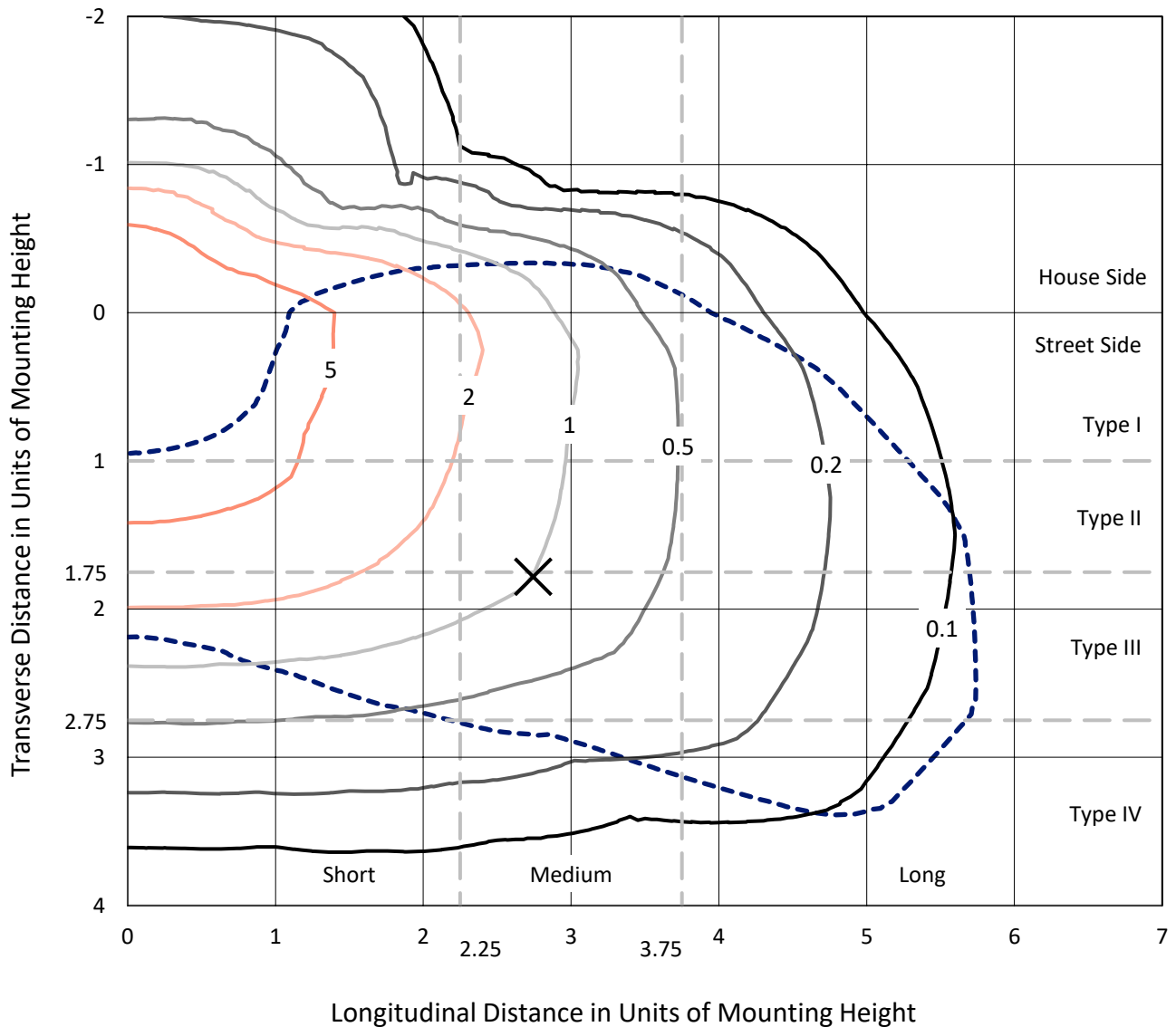
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

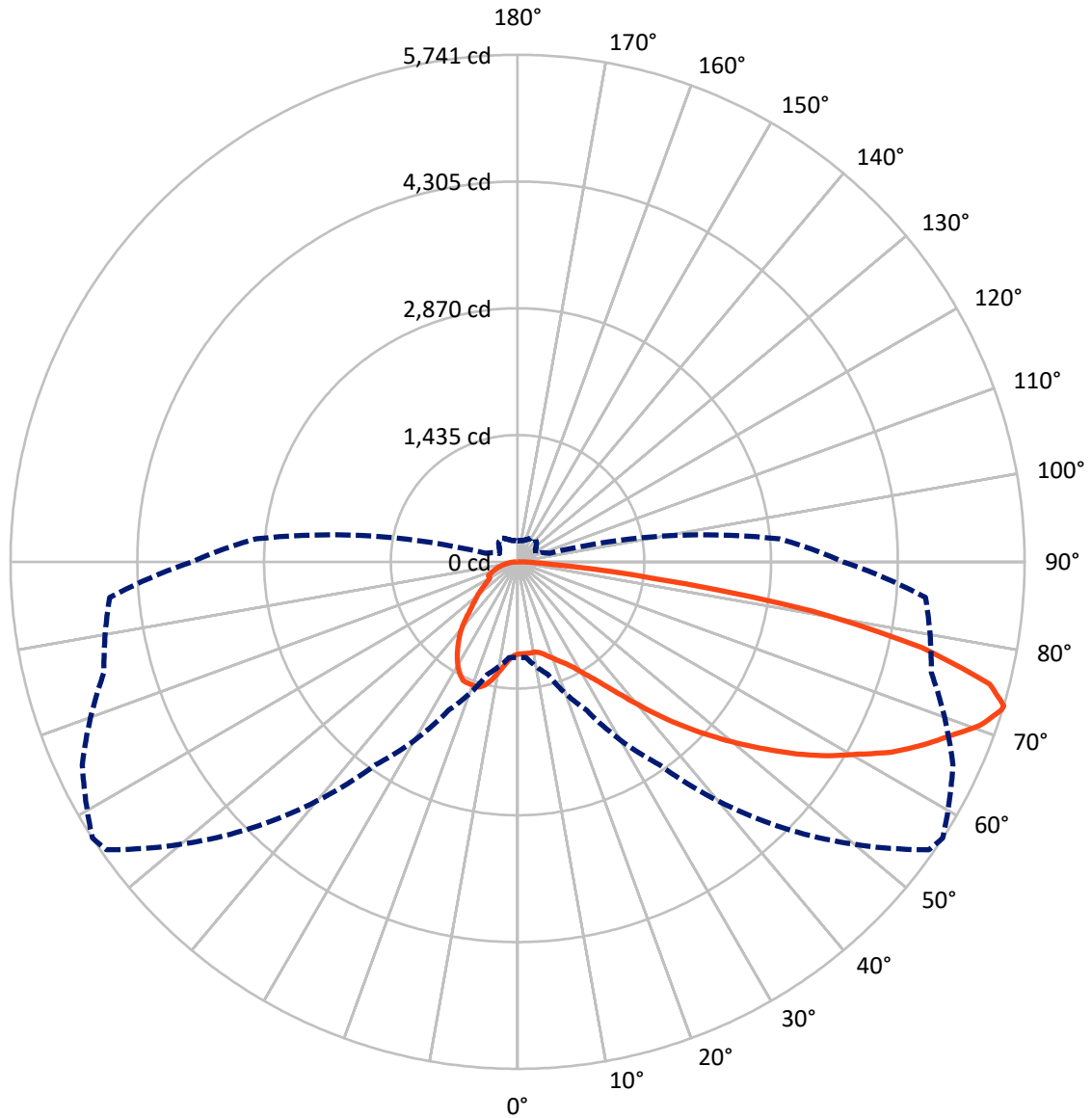
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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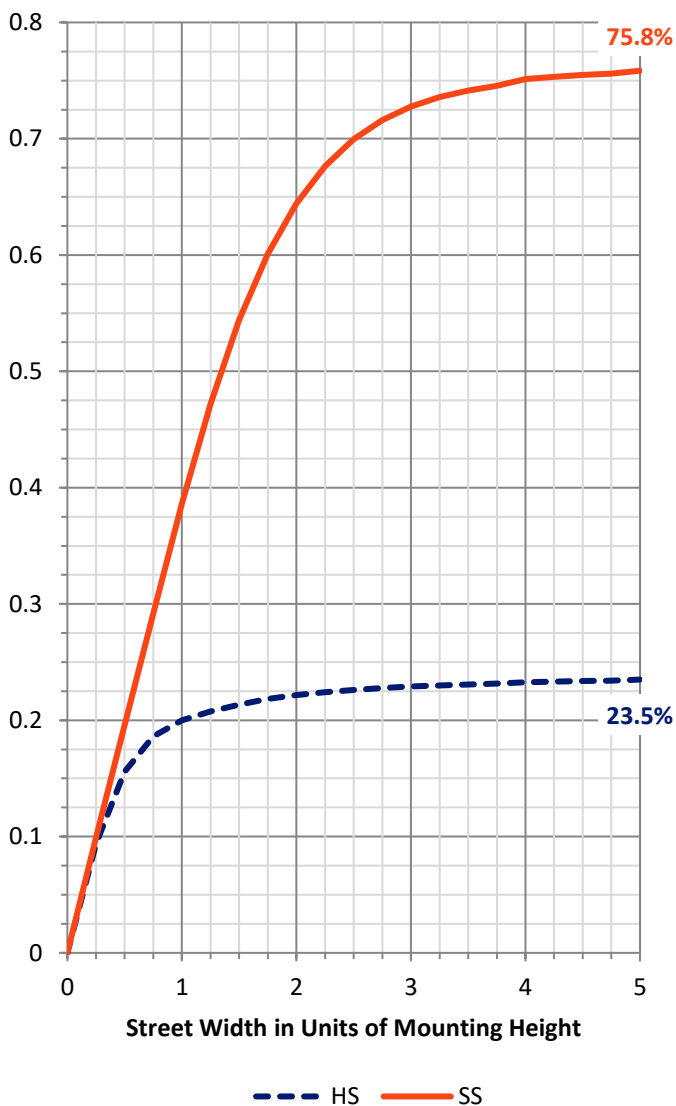
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2474.2 | 0.0 | 2474.2 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 7896.8 | 0.0 | 7896.8 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 10371.0 | 0.0 | 10371.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 104.3 | 1.0 |
| 10°-20° | 343.1 | 3.3 |
| 20°-30° | 633.4 | 6.1 |
| 30°-40° | 978.0 | 9.4 |
| 40°-50° | 1472.2 | 14.2 |
| 50°-60° | 2154.7 | 20.8 |
| 60°-70° | 2544.5 | 24.5 |
| 70°-80° | 1821.7 | 17.6 |
| 80°-90° | 319.2 | 3.1 |
| 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° | 10371.0 | 100.0 |
| 0°-180° | 10371.0 | 100.0 |

Coefficient of Utilization

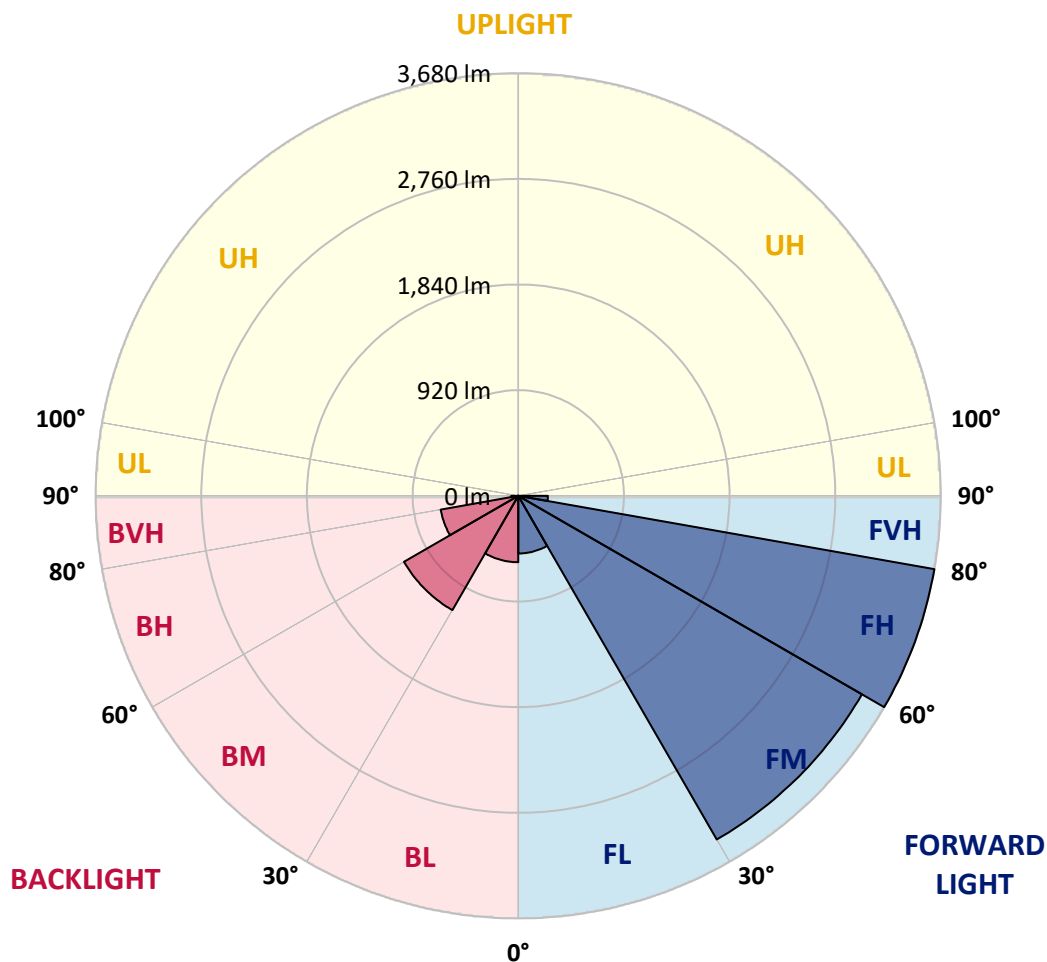


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 502.5 | 4.8 | | | |
| FM (30°-60°) | 3455.9 | 33.3 | | | |
| FH (60°-80°) | 3680.2 | 35.5 | | | G2/5000 |
| FVH (80°-90°) | 258.2 | 2.5 | | | G3/500 |
| BL (0°-30°) | 578.2 | 5.6 | B2/1000 | | |
| BM (30°-60°) | 1149.0 | 11.1 | B2/2500 | | |
| BH (60°-80°) | 686.0 | 6.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 61.0 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1044.9 | 1044.9 | 1044.9 | 1044.9 | 1044.9 | 1044.9 | 1044.9 | 1044.9 | 1044.9 | 1044.9 | 1044.9 |
| 2.5° | 1032.2 | 1037.3 | 1034.7 | 1037.3 | 1044.9 | 1039.8 | 1039.8 | 1042.3 | 1044.9 | 1042.3 | 1047.4 |
| 5° | 989.0 | 991.5 | 996.6 | 1006.7 | 1024.5 | 1029.6 | 1042.3 | 1042.3 | 1047.4 | 1052.5 | 1060.1 |
| 7.5° | 917.8 | 922.9 | 933.0 | 943.2 | 973.7 | 1004.2 | 1037.3 | 1042.3 | 1060.1 | 1072.8 | 1077.9 |
| 10° | 905.1 | 910.1 | 912.7 | 927.9 | 958.4 | 989.0 | 1029.6 | 1039.8 | 1072.8 | 1093.2 | 1116.1 |
| 12.5° | 892.3 | 897.4 | 905.1 | 925.4 | 963.5 | 996.6 | 1039.8 | 1050.0 | 1090.6 | 1131.3 | 1159.3 |
| 15° | 902.5 | 905.1 | 912.7 | 933.0 | 971.2 | 1016.9 | 1072.8 | 1080.5 | 1126.2 | 1177.1 | 1220.3 |
| 17.5° | 927.9 | 930.5 | 927.9 | 945.7 | 981.3 | 1034.7 | 1111.0 | 1123.7 | 1179.6 | 1230.5 | 1273.7 |
| 20° | 986.4 | 989.0 | 978.8 | 978.8 | 1004.2 | 1057.6 | 1151.7 | 1169.5 | 1238.1 | 1294.0 | 1337.2 |
| 22.5° | 1113.5 | 1108.4 | 1083.0 | 1050.0 | 1050.0 | 1093.2 | 1197.4 | 1222.8 | 1309.3 | 1355.0 | 1393.2 |
| 25° | 1294.0 | 1294.0 | 1253.4 | 1192.3 | 1151.7 | 1146.6 | 1250.8 | 1278.8 | 1380.5 | 1436.4 | 1459.3 |
| 27.5° | 1512.7 | 1515.2 | 1449.1 | 1367.8 | 1288.9 | 1250.8 | 1327.1 | 1355.0 | 1469.4 | 1527.9 | 1535.5 |
| 30° | 1705.9 | 1708.4 | 1642.3 | 1566.1 | 1469.4 | 1385.6 | 1428.8 | 1459.3 | 1591.5 | 1637.2 | 1611.8 |
| 32.5° | 1899.1 | 1901.6 | 1855.9 | 1751.6 | 1649.9 | 1545.7 | 1558.4 | 1576.2 | 1711.0 | 1754.2 | 1713.5 |
| 35° | 2066.9 | 2074.5 | 2028.8 | 1949.9 | 1843.2 | 1749.1 | 1726.2 | 1728.8 | 1850.8 | 1878.8 | 1825.4 |
| 37.5° | 2237.2 | 2237.2 | 2209.3 | 2135.5 | 2044.0 | 1939.8 | 1909.3 | 1916.9 | 2026.2 | 2054.2 | 1977.9 |
| 40° | 2453.3 | 2463.5 | 2448.2 | 2356.7 | 2252.5 | 2166.0 | 2135.5 | 2145.7 | 2265.2 | 2249.9 | 2168.6 |
| 42.5° | 2715.2 | 2738.1 | 2712.6 | 2613.5 | 2501.6 | 2405.0 | 2405.0 | 2405.0 | 2506.7 | 2509.2 | 2387.2 |
| 45° | 3050.8 | 3050.8 | 3025.3 | 2938.9 | 2791.4 | 2694.8 | 2661.8 | 2669.4 | 2758.4 | 2768.6 | 2626.2 |
| 47.5° | 3330.4 | 3355.8 | 3327.9 | 3264.3 | 3147.4 | 3055.8 | 2951.6 | 2938.9 | 3012.6 | 3012.6 | 2890.6 |
| 50° | 3556.7 | 3602.4 | 3579.5 | 3607.5 | 3523.6 | 3477.9 | 3264.3 | 3228.7 | 3254.1 | 3279.6 | 3144.8 |
| 52.5° | 3744.8 | 3780.4 | 3772.8 | 3854.1 | 3894.8 | 3920.2 | 3582.1 | 3526.2 | 3546.5 | 3544.0 | 3421.9 |
| 55° | 3757.5 | 3770.2 | 3884.6 | 4067.7 | 4227.8 | 4347.3 | 3902.4 | 3841.4 | 3821.1 | 3810.9 | 3716.8 |
| 57.5° | 3683.8 | 3691.4 | 3920.2 | 4136.3 | 4484.6 | 4621.9 | 4205.0 | 4143.9 | 4116.0 | 4080.4 | 4042.2 |
| 60° | 3505.8 | 3544.0 | 3843.9 | 4177.0 | 4637.1 | 4835.4 | 4487.1 | 4423.6 | 4403.3 | 4327.0 | 4413.4 |
| 62.5° | 3279.6 | 3297.4 | 3597.3 | 4093.1 | 4657.5 | 4927.0 | 4784.6 | 4746.5 | 4682.9 | 4573.6 | 4743.9 |
| 65° | 2959.2 | 2956.7 | 3221.1 | 3846.5 | 4553.2 | 4972.7 | 5036.3 | 5015.9 | 4937.1 | 4749.0 | 5038.8 |
| 67.5° | 2430.4 | 2488.9 | 2748.2 | 3409.2 | 4301.6 | 5018.5 | 5293.1 | 5267.6 | 5143.1 | 4906.6 | 5178.7 |
| 70° | 1853.3 | 1888.9 | 2183.8 | 2753.3 | 3800.7 | 4893.9 | 5544.7 | 5552.4 | 5326.1 | 4939.7 | 5117.6 |
| 72.5° | 1182.2 | 1243.2 | 1477.1 | 2005.9 | 3043.1 | 4431.2 | 5694.7 | 5730.3 | 5427.8 | 4893.9 | 4738.8 |
| 73° | 1083.0 | 1088.1 | 1316.9 | 1855.9 | 2806.7 | 4266.0 | 5684.6 | 5740.5 | 5438.0 | 4848.2 | 4634.6 |
| 75° | 645.7 | 673.7 | 811.0 | 1233.0 | 2003.3 | 3427.0 | 5410.0 | 5521.9 | 5384.6 | 4644.8 | 4062.6 |
| 77.5° | 302.5 | 322.9 | 399.1 | 650.8 | 1090.6 | 2061.8 | 4548.2 | 4680.4 | 4771.9 | 4065.1 | 3096.5 |
| 80° | 160.2 | 162.7 | 195.8 | 328.0 | 584.7 | 849.1 | 3170.2 | 3388.9 | 3518.5 | 3060.9 | 2082.1 |
| 82.5° | 134.7 | 134.7 | 152.5 | 211.0 | 373.7 | 330.5 | 1306.7 | 1555.9 | 1906.7 | 1507.6 | 818.6 |
| 85° | 109.3 | 111.9 | 152.5 | 157.6 | 266.9 | 170.3 | 312.7 | 391.5 | 739.8 | 666.1 | 91.5 |
| 87.5° | 35.6 | 40.7 | 86.4 | 111.9 | 142.4 | 66.1 | 78.8 | 86.4 | 86.4 | 127.1 | 30.5 |
| 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° | 1044.9 | 1044.9 | 1044.9 | 1044.9 | 1044.9 | 1044.9 | 1044.9 | 1044.9 | 1044.9 | 1044.9 | 1044.9 |
| 2.5° | 1050.0 | 1050.0 | 1052.5 | 1055.1 | 1060.1 | 1060.1 | 1065.2 | 1067.8 | 1072.8 | 1075.4 | 1067.8 |
| 5° | 1060.1 | 1065.2 | 1070.3 | 1085.6 | 1103.4 | 1118.6 | 1133.9 | 1146.6 | 1159.3 | 1166.9 | 1164.4 |
| 7.5° | 1088.1 | 1095.7 | 1116.1 | 1144.0 | 1179.6 | 1202.5 | 1225.4 | 1248.3 | 1258.4 | 1263.5 | 1263.5 |
| 10° | 1126.2 | 1141.5 | 1179.6 | 1225.4 | 1266.1 | 1301.7 | 1319.5 | 1334.7 | 1339.8 | 1344.9 | 1339.8 |
| 12.5° | 1179.6 | 1200.0 | 1258.4 | 1316.9 | 1362.7 | 1380.5 | 1377.9 | 1357.6 | 1329.6 | 1324.5 | 1319.5 |
| 15° | 1248.3 | 1273.7 | 1339.8 | 1408.4 | 1444.0 | 1421.1 | 1362.7 | 1342.3 | 1337.2 | 1352.5 | 1347.4 |
| 17.5° | 1306.7 | 1337.2 | 1418.6 | 1489.8 | 1482.2 | 1403.3 | 1385.6 | 1395.7 | 1390.6 | 1393.2 | 1393.2 |
| 20° | 1362.7 | 1405.9 | 1492.3 | 1540.6 | 1474.5 | 1423.7 | 1408.4 | 1395.7 | 1380.5 | 1385.6 | 1380.5 |
| 22.5° | 1433.9 | 1464.4 | 1563.5 | 1566.1 | 1464.4 | 1423.7 | 1390.6 | 1365.2 | 1360.1 | 1362.7 | 1365.2 |
| 25° | 1489.8 | 1538.1 | 1624.5 | 1548.3 | 1464.4 | 1383.0 | 1337.2 | 1332.2 | 1334.7 | 1350.0 | 1344.9 |
| 27.5° | 1566.1 | 1614.4 | 1672.8 | 1538.1 | 1403.3 | 1316.9 | 1299.1 | 1296.6 | 1278.8 | 1283.9 | 1283.9 |
| 30° | 1637.2 | 1695.7 | 1698.3 | 1538.1 | 1327.1 | 1261.0 | 1235.6 | 1189.8 | 1151.7 | 1159.3 | 1156.7 |
| 32.5° | 1733.8 | 1784.7 | 1703.3 | 1477.1 | 1240.6 | 1187.3 | 1118.6 | 1047.4 | 1029.6 | 1039.8 | 1042.3 |
| 35° | 1845.7 | 1886.4 | 1708.4 | 1375.4 | 1154.2 | 1083.0 | 958.4 | 917.8 | 915.2 | 922.9 | 930.5 |
| 37.5° | 1993.2 | 2016.0 | 1746.6 | 1258.4 | 1070.3 | 920.3 | 823.7 | 813.5 | 790.7 | 775.4 | 777.9 |
| 40° | 2173.7 | 2145.7 | 1820.3 | 1154.2 | 971.2 | 772.9 | 732.2 | 704.2 | 661.0 | 617.8 | 625.4 |
| 42.5° | 2374.5 | 2295.7 | 1843.2 | 1070.3 | 836.4 | 681.3 | 643.2 | 600.0 | 546.6 | 500.8 | 498.3 |
| 45° | 2590.6 | 2463.5 | 1822.8 | 1004.2 | 701.7 | 612.7 | 572.0 | 521.2 | 457.6 | 419.5 | 419.5 |
| 47.5° | 2847.4 | 2623.6 | 1759.3 | 950.8 | 607.6 | 551.7 | 500.8 | 450.0 | 406.8 | 371.2 | 371.2 |
| 50° | 3129.6 | 2809.2 | 1713.5 | 856.8 | 541.5 | 493.2 | 442.4 | 401.7 | 368.6 | 340.7 | 340.7 |
| 52.5° | 3427.0 | 2984.7 | 1675.4 | 719.5 | 483.0 | 439.8 | 404.2 | 371.2 | 343.2 | 307.6 | 302.5 |
| 55° | 3729.5 | 3152.4 | 1693.2 | 587.3 | 429.6 | 401.7 | 378.8 | 345.8 | 335.6 | 328.0 | 322.9 |
| 57.5° | 4044.8 | 3335.5 | 1736.4 | 480.5 | 383.9 | 381.3 | 371.2 | 394.1 | 416.9 | 401.7 | 394.1 |
| 60° | 4291.4 | 3477.9 | 1741.5 | 404.2 | 355.9 | 401.7 | 452.5 | 460.2 | 399.1 | 363.5 | 361.0 |
| 62.5° | 4487.1 | 3612.6 | 1622.0 | 350.8 | 363.5 | 472.9 | 483.0 | 406.8 | 345.8 | 330.5 | 330.5 |
| 65° | 4588.8 | 3660.9 | 1304.2 | 320.3 | 378.8 | 452.5 | 437.3 | 366.1 | 322.9 | 320.3 | 320.3 |
| 67.5° | 4538.0 | 3622.8 | 912.7 | 287.3 | 335.6 | 391.5 | 391.5 | 335.6 | 297.4 | 310.2 | 305.1 |
| 70° | 4293.9 | 3434.6 | 602.5 | 259.3 | 294.9 | 353.4 | 363.5 | 312.7 | 277.1 | 284.7 | 277.1 |
| 72.5° | 3785.5 | 3099.1 | 396.6 | 228.8 | 254.2 | 312.7 | 338.1 | 287.3 | 254.2 | 251.7 | 244.1 |
| 73° | 3686.3 | 2971.9 | 373.7 | 223.7 | 246.6 | 302.5 | 330.5 | 282.2 | 249.1 | 241.5 | 236.4 |
| 75° | 3127.0 | 2478.7 | 282.2 | 200.8 | 218.6 | 272.0 | 307.6 | 264.4 | 228.8 | 218.6 | 213.6 |
| 77.5° | 2277.9 | 1718.6 | 211.0 | 170.3 | 183.0 | 236.4 | 272.0 | 241.5 | 203.4 | 190.7 | 188.1 |
| 80° | 1421.1 | 935.6 | 157.6 | 137.3 | 144.9 | 198.3 | 239.0 | 216.1 | 175.4 | 160.2 | 157.6 |
| 82.5° | 556.8 | 305.1 | 109.3 | 101.7 | 106.8 | 150.0 | 200.8 | 188.1 | 147.5 | 134.7 | 127.1 |
| 85° | 91.5 | 104.2 | 71.2 | 68.6 | 68.6 | 106.8 | 152.5 | 144.9 | 99.1 | 86.4 | 76.3 |
| 87.5° | 25.4 | 48.3 | 28.0 | 25.4 | 25.4 | 45.8 | 83.9 | 66.1 | 40.7 | 33.0 | 30.5 |
| 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)