

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: P595899

Luminaire Tested: **ISW-PA1F-760-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISW-PA1F-760-U-T4W
Description: IMPACT ELITE LED WEDGE LUMINAIRE
(1) 70 CRI, 5700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11144 lumens
Efficiency: N/A
Efficacy: 119.2 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

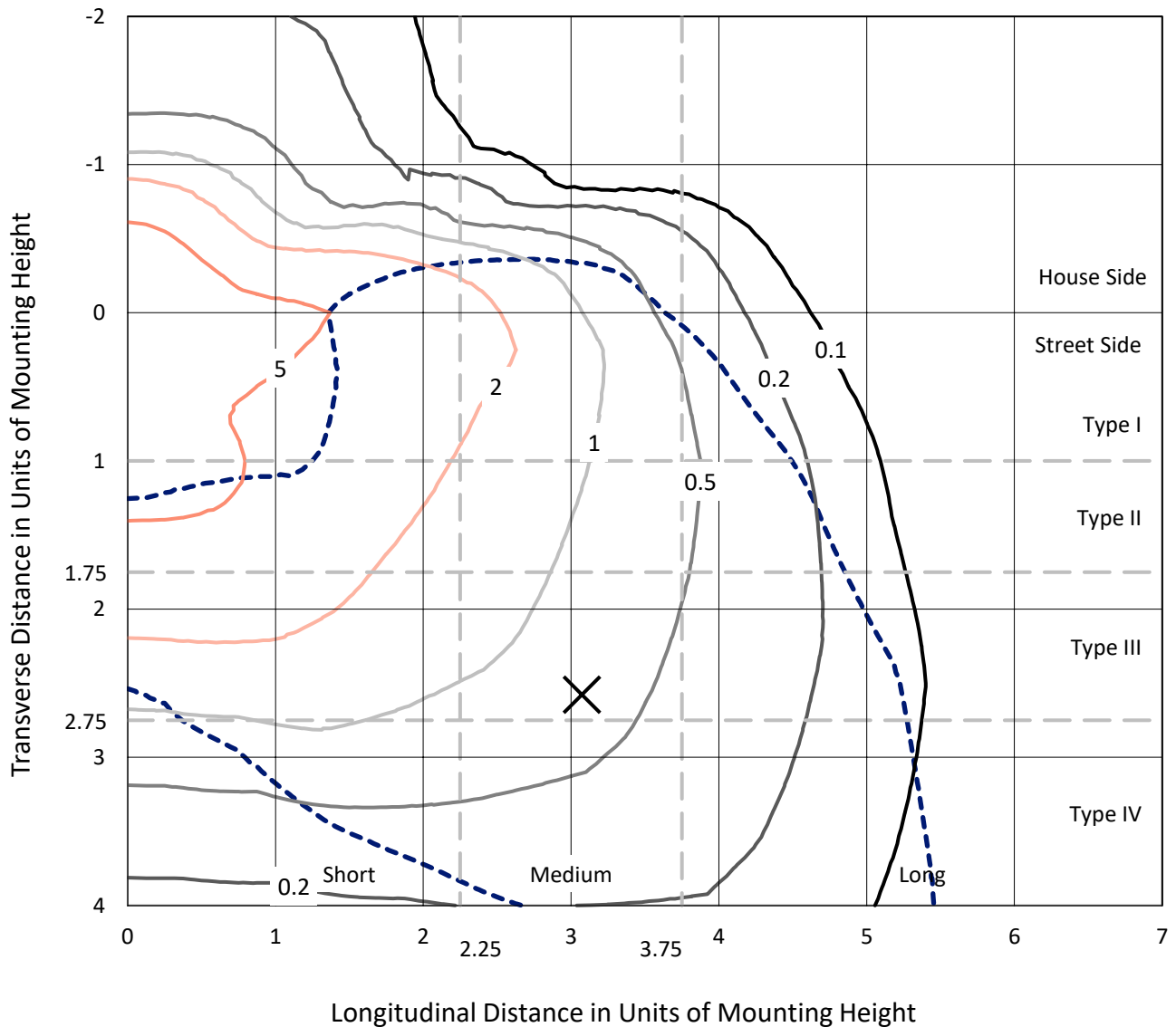
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

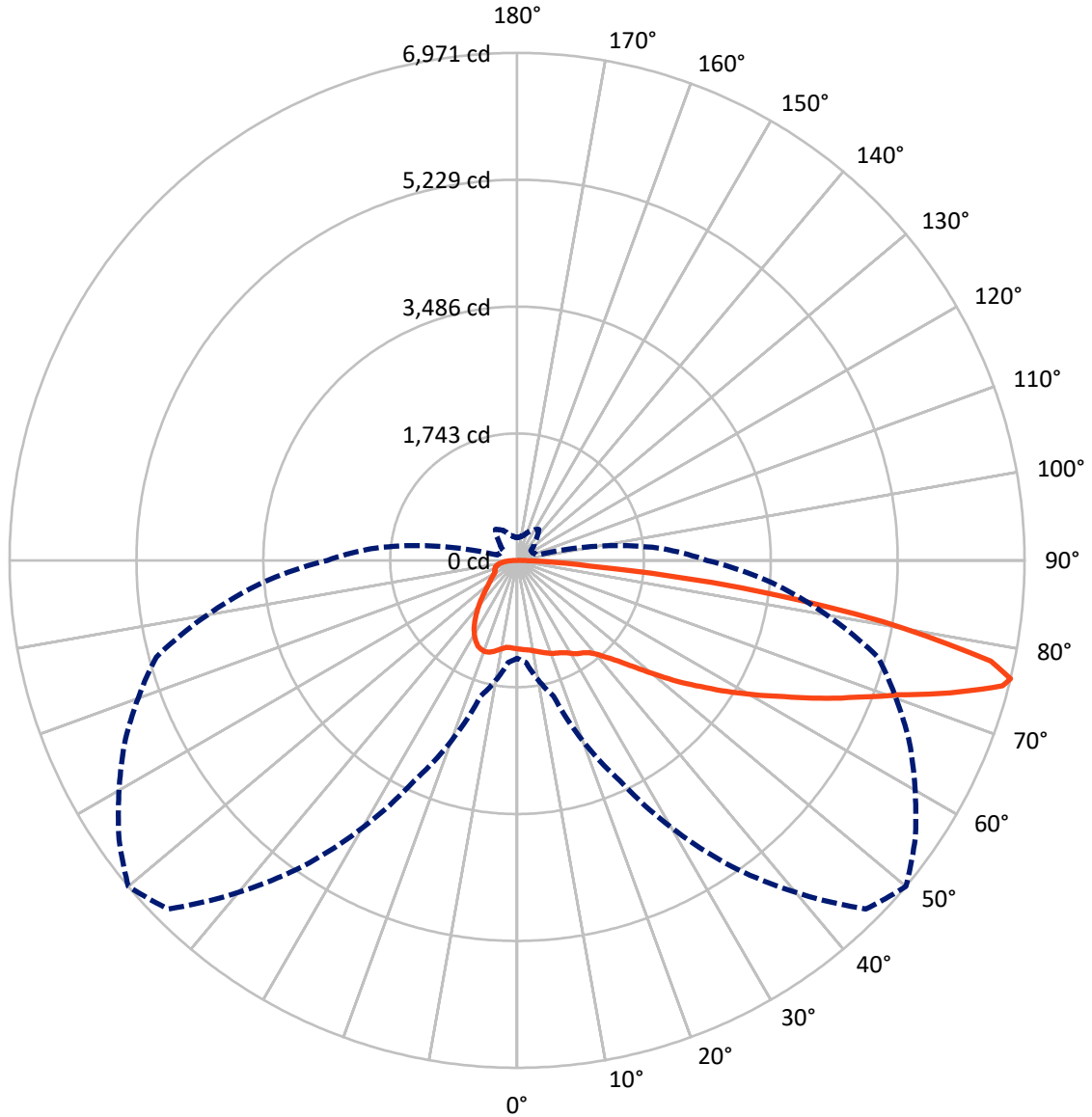
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 76-Deg Vertical

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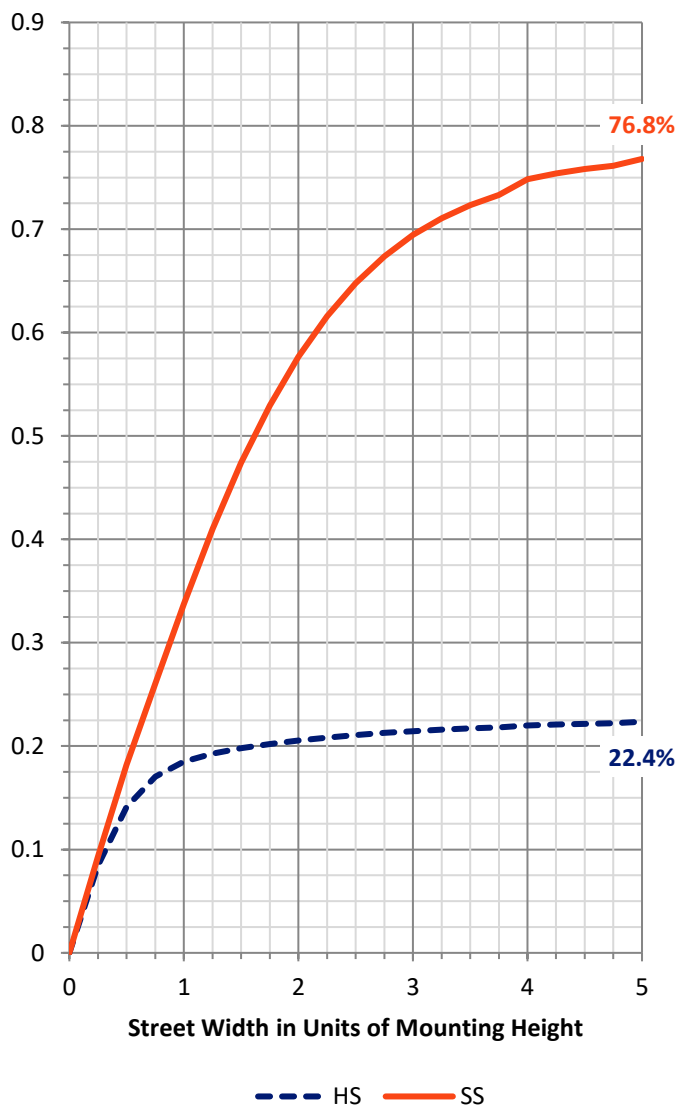
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2549.3 | 0.0 | 2549.3 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 8594.7 | 0.0 | 8594.7 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 11144.0 | 0.0 | 11144.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 118.0 | 1.1 |
| 10°-20° | 370.8 | 3.3 |
| 20°-30° | 626.4 | 5.6 |
| 30°-40° | 858.6 | 7.7 |
| 40°-50° | 1264.6 | 11.3 |
| 50°-60° | 1989.2 | 17.9 |
| 60°-70° | 2863.3 | 25.7 |
| 70°-80° | 2603.6 | 23.4 |
| 80°-90° | 449.5 | 4.0 |
| 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° | 11144.0 | 100.0 |
| 0°-180° | 11144.0 | 100.0 |

Coefficient of Utilization

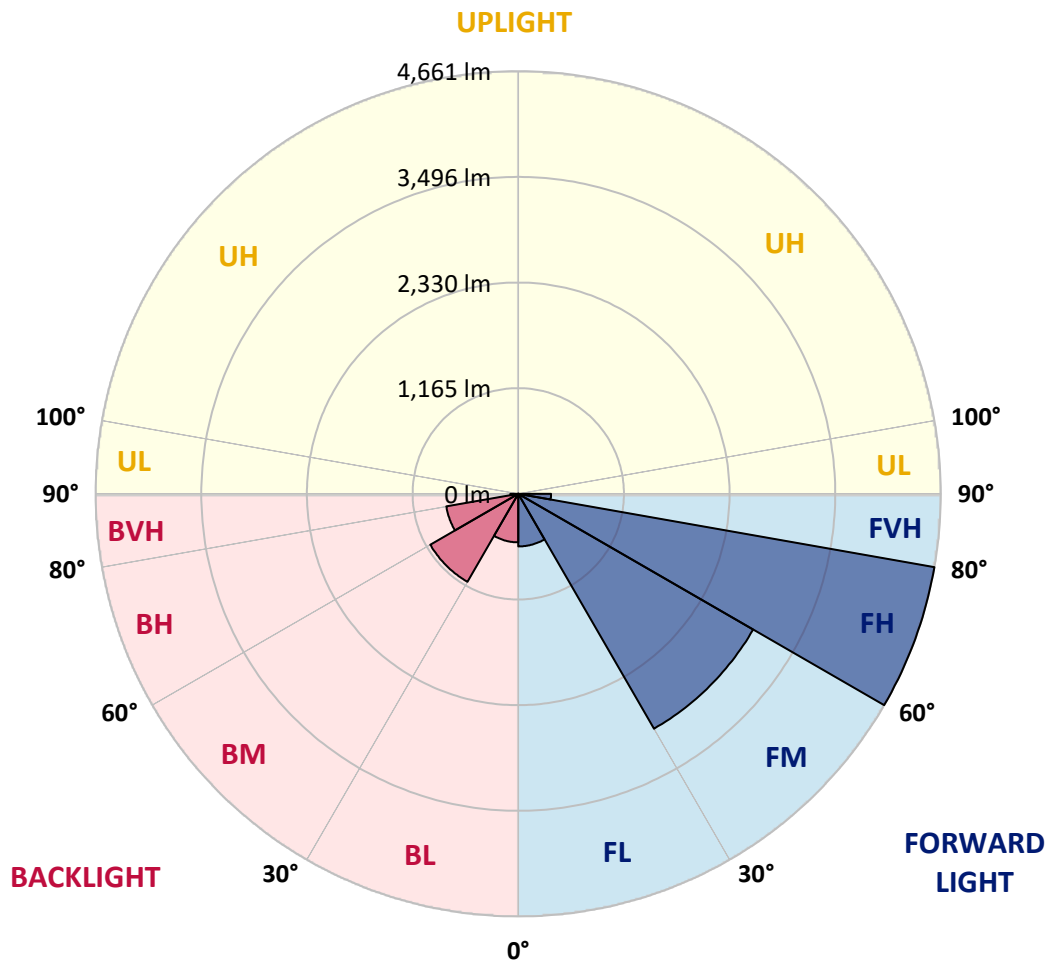


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 580.0 | 5.2 | | | |
| FM (30°-60°) | 2992.0 | 26.8 | | | |
| FH (60°-80°) | 4660.9 | 41.8 | | | G2/5000 |
| FVH (80°-90°) | 361.8 | 3.2 | | | G3/500 |
| BL (0°-30°) | 535.2 | 4.8 | B2/1000 | | |
| BM (30°-60°) | 1120.4 | 10.1 | B2/2500 | | |
| BH (60°-80°) | 806.0 | 7.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 87.7 | 0.8 | | | 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° | 50° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1214.7 | 1214.7 | 1214.7 | 1214.7 | 1214.7 | 1214.7 | 1214.7 | 1214.7 | 1214.7 | 1214.7 | 1214.7 |
| 2.5° | 1242.0 | 1242.0 | 1244.7 | 1239.2 | 1239.2 | 1225.6 | 1225.6 | 1222.9 | 1217.4 | 1214.7 | 1209.2 |
| 5° | 1288.4 | 1288.4 | 1280.2 | 1266.5 | 1258.3 | 1242.0 | 1233.8 | 1228.3 | 1217.4 | 1203.8 | 1190.1 |
| 7.5° | 1337.5 | 1332.0 | 1326.6 | 1304.7 | 1288.4 | 1258.3 | 1244.7 | 1236.5 | 1214.7 | 1195.6 | 1187.4 |
| 10° | 1389.4 | 1381.2 | 1367.5 | 1340.2 | 1315.7 | 1280.2 | 1263.8 | 1252.9 | 1228.3 | 1211.9 | 1192.8 |
| 12.5° | 1419.4 | 1419.4 | 1403.0 | 1370.3 | 1337.5 | 1293.8 | 1285.6 | 1272.0 | 1247.4 | 1225.6 | 1206.5 |
| 15° | 1449.4 | 1452.1 | 1435.8 | 1397.6 | 1359.3 | 1326.6 | 1312.9 | 1304.7 | 1277.5 | 1244.7 | 1220.1 |
| 17.5° | 1479.4 | 1476.7 | 1460.3 | 1416.7 | 1375.7 | 1345.7 | 1337.5 | 1326.6 | 1299.3 | 1269.3 | 1244.7 |
| 20° | 1501.3 | 1495.8 | 1490.4 | 1435.8 | 1394.8 | 1375.7 | 1364.8 | 1356.6 | 1329.3 | 1296.6 | 1263.8 |
| 22.5° | 1506.7 | 1512.2 | 1506.7 | 1441.2 | 1408.5 | 1386.6 | 1383.9 | 1375.7 | 1353.9 | 1323.9 | 1291.1 |
| 25° | 1509.5 | 1512.2 | 1520.4 | 1457.6 | 1427.6 | 1411.2 | 1405.7 | 1400.3 | 1383.9 | 1359.3 | 1315.7 |
| 27.5° | 1523.1 | 1525.8 | 1525.8 | 1468.5 | 1452.1 | 1441.2 | 1435.8 | 1435.8 | 1427.6 | 1397.6 | 1353.9 |
| 30° | 1525.8 | 1528.6 | 1534.0 | 1495.8 | 1490.4 | 1482.2 | 1484.9 | 1482.2 | 1468.5 | 1435.8 | 1386.6 |
| 32.5° | 1545.0 | 1547.7 | 1561.3 | 1512.2 | 1517.7 | 1525.8 | 1528.6 | 1525.8 | 1498.5 | 1471.3 | 1430.3 |
| 35° | 1607.7 | 1605.0 | 1615.9 | 1553.1 | 1547.7 | 1550.4 | 1558.6 | 1555.9 | 1545.0 | 1520.4 | 1493.1 |
| 37.5° | 1809.7 | 1809.7 | 1779.7 | 1648.7 | 1607.7 | 1602.3 | 1607.7 | 1621.4 | 1624.1 | 1602.3 | 1580.4 |
| 40° | 2164.6 | 2145.5 | 2129.1 | 1845.2 | 1714.2 | 1681.4 | 1697.8 | 1706.0 | 1727.8 | 1727.8 | 1727.8 |
| 42.5° | 2530.3 | 2533.1 | 2527.6 | 2150.9 | 1905.3 | 1823.4 | 1826.1 | 1845.2 | 1891.6 | 1899.8 | 1924.4 |
| 45° | 2855.2 | 2874.3 | 2915.2 | 2505.8 | 2186.4 | 2003.5 | 1984.4 | 2003.5 | 2069.0 | 2123.6 | 2186.4 |
| 47.5° | 3109.0 | 3087.2 | 3177.3 | 2877.0 | 2508.5 | 2249.2 | 2200.1 | 2205.5 | 2295.6 | 2382.9 | 2481.2 |
| 50° | 3327.4 | 3332.8 | 3373.8 | 3256.4 | 2915.2 | 2527.6 | 2462.1 | 2451.2 | 2579.5 | 2672.3 | 2838.8 |
| 52.5° | 3573.0 | 3556.7 | 3616.7 | 3589.4 | 3311.0 | 2868.8 | 2765.1 | 2732.3 | 2871.5 | 3002.6 | 3182.7 |
| 55° | 3690.4 | 3706.8 | 3829.6 | 3897.9 | 3685.0 | 3174.5 | 3059.9 | 3070.8 | 3218.2 | 3357.4 | 3608.5 |
| 57.5° | 3897.9 | 3914.2 | 4056.2 | 4198.1 | 4018.0 | 3499.3 | 3398.3 | 3398.3 | 3564.9 | 3720.4 | 4108.0 |
| 60° | 4181.7 | 4184.5 | 4329.1 | 4574.8 | 4310.0 | 3813.2 | 3747.7 | 3745.0 | 3925.2 | 4105.3 | 4697.6 |
| 62.5° | 4307.3 | 4340.1 | 4555.7 | 4875.1 | 4692.2 | 4198.1 | 4121.7 | 4143.5 | 4304.6 | 4514.8 | 5355.5 |
| 65° | 4138.1 | 4209.0 | 4659.4 | 5077.1 | 5033.4 | 4599.4 | 4569.3 | 4599.4 | 4697.6 | 4924.2 | 6051.5 |
| 67.5° | 3578.5 | 3674.0 | 4468.4 | 5213.5 | 5306.3 | 5063.4 | 5019.7 | 5014.3 | 5077.1 | 5330.9 | 6491.0 |
| 70° | 3289.2 | 3346.5 | 3963.4 | 5265.4 | 5524.7 | 5532.9 | 5532.9 | 5497.4 | 5489.2 | 5674.8 | 6531.9 |
| 72.5° | 2707.8 | 2767.8 | 3343.8 | 4976.1 | 5732.2 | 6160.7 | 6223.5 | 6092.5 | 5890.5 | 5852.3 | 5846.8 |
| 75° | 1929.8 | 1973.5 | 2470.3 | 3914.2 | 5467.4 | 6763.9 | 6889.5 | 6635.7 | 6073.4 | 5464.7 | 4263.6 |
| 76° | 1345.7 | 1408.5 | 1929.8 | 3343.8 | 5134.4 | 6774.9 | 6971.4 | 6676.6 | 5950.5 | 5131.6 | 3513.0 |
| 77.5° | 682.4 | 704.2 | 1116.4 | 2246.5 | 4296.4 | 6463.7 | 6654.8 | 6324.5 | 5415.5 | 4146.3 | 2230.1 |
| 80° | 259.3 | 267.5 | 398.5 | 818.9 | 2358.4 | 5019.7 | 5093.4 | 4648.5 | 3584.0 | 1771.5 | 802.5 |
| 82.5° | 136.5 | 141.9 | 223.8 | 404.0 | 969.0 | 2759.6 | 3114.5 | 2593.1 | 1405.7 | 532.3 | 234.7 |
| 85° | 68.2 | 73.7 | 131.0 | 245.7 | 480.4 | 862.6 | 999.0 | 944.4 | 466.8 | 202.0 | 87.3 |
| 87.5° | 27.3 | 32.8 | 65.5 | 109.2 | 193.8 | 169.2 | 188.3 | 242.9 | 150.1 | 95.5 | 30.0 |
| 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° | 1214.7 | 1214.7 | 1214.7 | 1214.7 | 1214.7 | 1214.7 | 1214.7 | 1214.7 | 1214.7 | 1214.7 | 1214.7 |
| 2.5° | 1209.2 | 1206.5 | 1209.2 | 1206.5 | 1209.2 | 1209.2 | 1211.9 | 1206.5 | 1206.5 | 1211.9 | 1203.8 |
| 5° | 1190.1 | 1187.4 | 1190.1 | 1195.6 | 1198.3 | 1203.8 | 1214.7 | 1211.9 | 1217.4 | 1222.9 | 1225.6 |
| 7.5° | 1181.9 | 1179.2 | 1187.4 | 1190.1 | 1198.3 | 1209.2 | 1225.6 | 1236.5 | 1242.0 | 1252.9 | 1247.4 |
| 10° | 1190.1 | 1190.1 | 1201.0 | 1209.2 | 1222.9 | 1236.5 | 1250.2 | 1261.1 | 1274.7 | 1282.9 | 1280.2 |
| 12.5° | 1203.8 | 1201.0 | 1220.1 | 1231.0 | 1250.2 | 1263.8 | 1274.7 | 1280.2 | 1291.1 | 1302.0 | 1299.3 |
| 15° | 1217.4 | 1220.1 | 1247.4 | 1269.3 | 1291.1 | 1296.6 | 1299.3 | 1293.8 | 1299.3 | 1304.7 | 1304.7 |
| 17.5° | 1244.7 | 1247.4 | 1277.5 | 1302.0 | 1321.1 | 1315.7 | 1302.0 | 1288.4 | 1288.4 | 1291.1 | 1293.8 |
| 20° | 1266.5 | 1272.0 | 1307.5 | 1329.3 | 1340.2 | 1318.4 | 1296.6 | 1280.2 | 1272.0 | 1274.7 | 1272.0 |
| 22.5° | 1291.1 | 1302.0 | 1337.5 | 1348.4 | 1332.0 | 1304.7 | 1277.5 | 1255.6 | 1255.6 | 1258.3 | 1258.3 |
| 25° | 1321.1 | 1326.6 | 1351.2 | 1345.7 | 1315.7 | 1274.7 | 1252.9 | 1244.7 | 1242.0 | 1244.7 | 1247.4 |
| 27.5° | 1348.4 | 1351.2 | 1364.8 | 1326.6 | 1269.3 | 1225.6 | 1217.4 | 1220.1 | 1222.9 | 1225.6 | 1228.3 |
| 30° | 1383.9 | 1389.4 | 1375.7 | 1299.3 | 1211.9 | 1162.8 | 1162.8 | 1179.2 | 1184.6 | 1192.8 | 1190.1 |
| 32.5° | 1427.6 | 1433.0 | 1392.1 | 1263.8 | 1138.2 | 1089.1 | 1091.8 | 1116.4 | 1132.8 | 1138.2 | 1141.0 |
| 35° | 1501.3 | 1490.4 | 1403.0 | 1214.7 | 1059.1 | 999.0 | 1001.8 | 1031.8 | 1053.6 | 1061.8 | 1056.4 |
| 37.5° | 1591.4 | 1588.6 | 1419.4 | 1151.9 | 960.8 | 906.2 | 909.0 | 922.6 | 944.4 | 947.2 | 949.9 |
| 40° | 1741.5 | 1719.6 | 1446.7 | 1070.0 | 862.6 | 810.7 | 805.2 | 813.4 | 810.7 | 816.1 | 818.9 |
| 42.5° | 1957.1 | 1899.8 | 1482.2 | 977.2 | 775.2 | 720.6 | 715.2 | 701.5 | 685.1 | 668.8 | 660.6 |
| 45° | 2211.0 | 2120.9 | 1525.8 | 881.7 | 685.1 | 636.0 | 622.3 | 606.0 | 573.2 | 537.7 | 526.8 |
| 47.5° | 2538.5 | 2366.6 | 1575.0 | 786.1 | 600.5 | 562.3 | 551.4 | 526.8 | 488.6 | 447.7 | 439.5 |
| 50° | 2874.3 | 2655.9 | 1624.1 | 707.0 | 532.3 | 510.4 | 499.5 | 474.9 | 425.8 | 387.6 | 379.4 |
| 52.5° | 3264.6 | 2942.5 | 1676.0 | 636.0 | 472.2 | 472.2 | 464.0 | 425.8 | 379.4 | 343.9 | 338.5 |
| 55° | 3715.0 | 3237.3 | 1757.9 | 567.8 | 428.5 | 439.5 | 428.5 | 390.3 | 346.7 | 322.1 | 319.4 |
| 57.5° | 4252.7 | 3611.3 | 1861.6 | 494.1 | 390.3 | 398.5 | 398.5 | 371.2 | 341.2 | 324.8 | 322.1 |
| 60° | 4793.2 | 3990.7 | 1927.1 | 439.5 | 360.3 | 368.5 | 384.9 | 371.2 | 352.1 | 343.9 | 341.2 |
| 62.5° | 5311.8 | 4378.3 | 1815.2 | 393.1 | 330.3 | 354.8 | 395.8 | 398.5 | 379.4 | 382.1 | 382.1 |
| 65° | 5699.4 | 4673.1 | 1468.5 | 352.1 | 311.2 | 363.0 | 428.5 | 431.3 | 398.5 | 390.3 | 387.6 |
| 67.5° | 5833.1 | 4755.0 | 988.1 | 324.8 | 300.3 | 368.5 | 466.8 | 455.8 | 398.5 | 382.1 | 374.0 |
| 70° | 5579.3 | 4454.7 | 641.5 | 300.3 | 283.9 | 363.0 | 496.8 | 469.5 | 395.8 | 371.2 | 360.3 |
| 72.5° | 4678.5 | 3799.6 | 428.5 | 278.4 | 267.5 | 357.6 | 515.9 | 469.5 | 387.6 | 352.1 | 341.2 |
| 75° | 3248.2 | 2595.8 | 319.4 | 251.1 | 242.9 | 349.4 | 521.4 | 461.3 | 368.5 | 330.3 | 322.1 |
| 76° | 2606.8 | 1946.2 | 289.3 | 240.2 | 232.0 | 343.9 | 518.6 | 453.1 | 354.8 | 319.4 | 311.2 |
| 77.5° | 1645.9 | 1119.1 | 242.9 | 221.1 | 215.6 | 333.0 | 507.7 | 434.0 | 335.7 | 300.3 | 292.1 |
| 80° | 575.9 | 409.4 | 185.6 | 180.2 | 182.9 | 308.4 | 477.7 | 395.8 | 297.5 | 264.8 | 253.9 |
| 82.5° | 229.3 | 188.3 | 139.2 | 139.2 | 144.7 | 264.8 | 431.3 | 349.4 | 259.3 | 218.4 | 202.0 |
| 85° | 90.1 | 81.9 | 98.3 | 98.3 | 103.7 | 215.6 | 360.3 | 273.0 | 177.4 | 136.5 | 131.0 |
| 87.5° | 27.3 | 38.2 | 43.7 | 46.4 | 49.1 | 109.2 | 204.7 | 120.1 | 79.2 | 57.3 | 46.4 |
| 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)