

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: P595314

Luminaire Tested: **IST-PA1E-750-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595314
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: IST-PA1E-750-U-T4W
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10152 lumens
Efficiency: N/A
Efficacy: 124.6 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

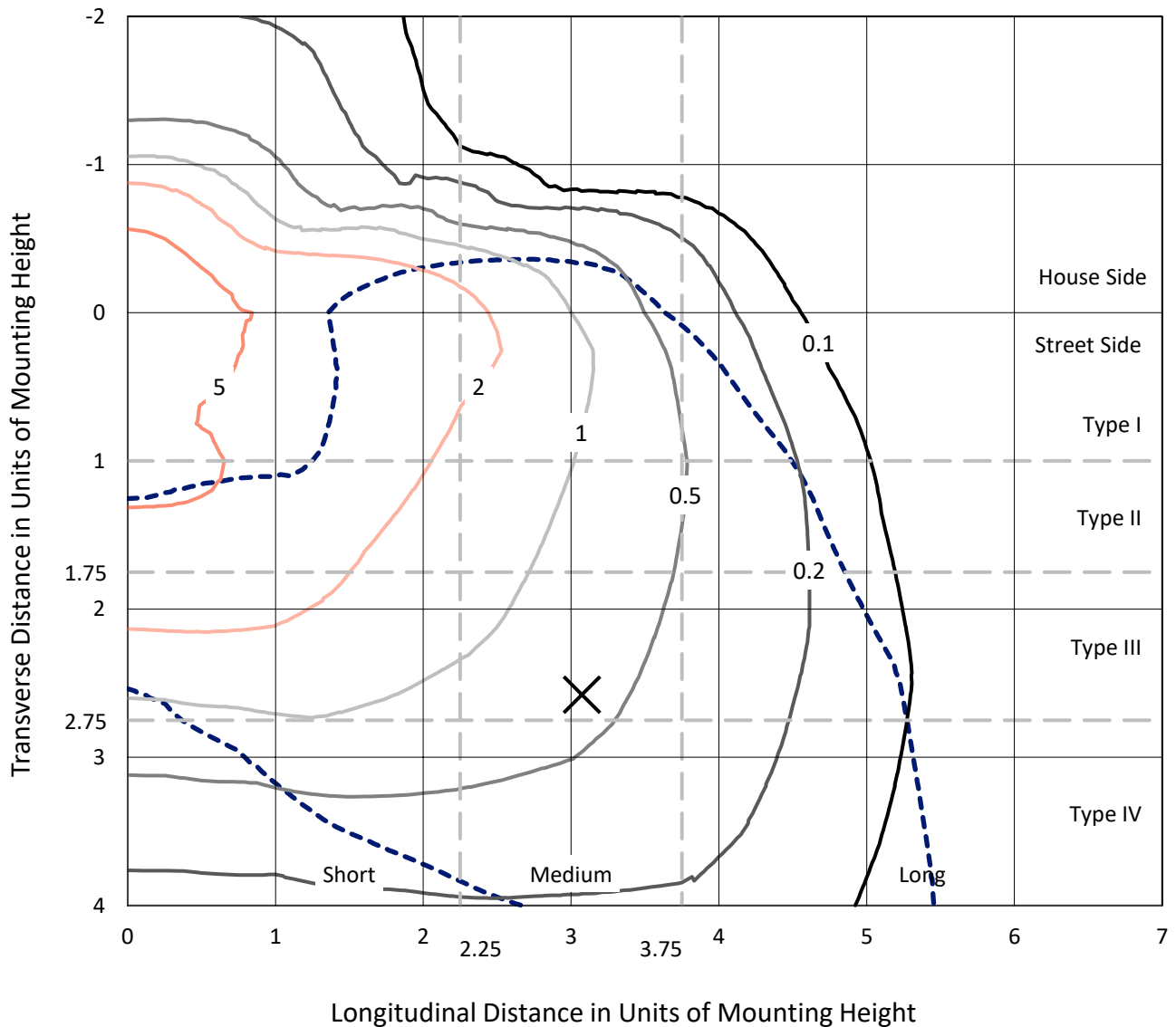
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

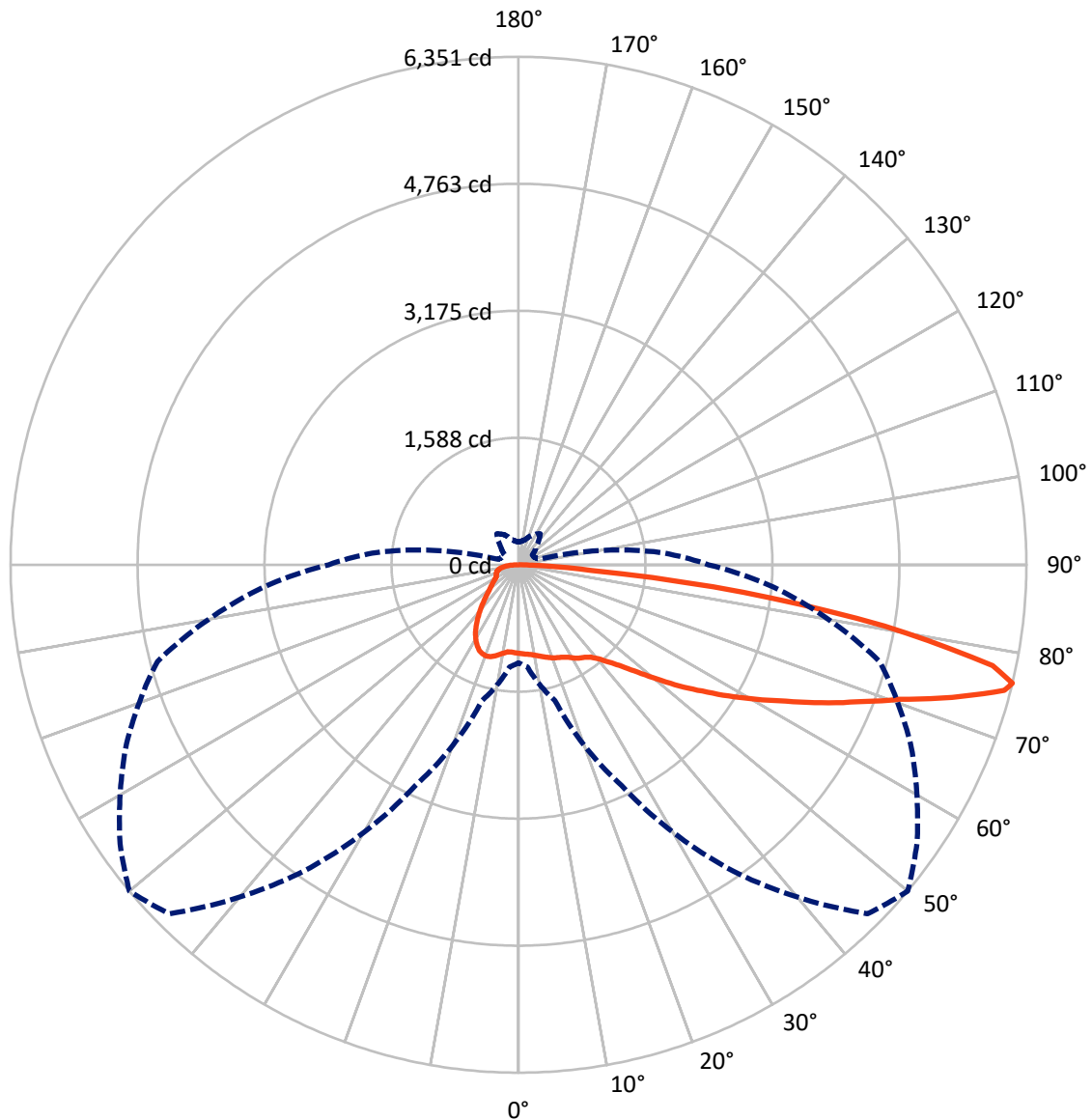
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.3 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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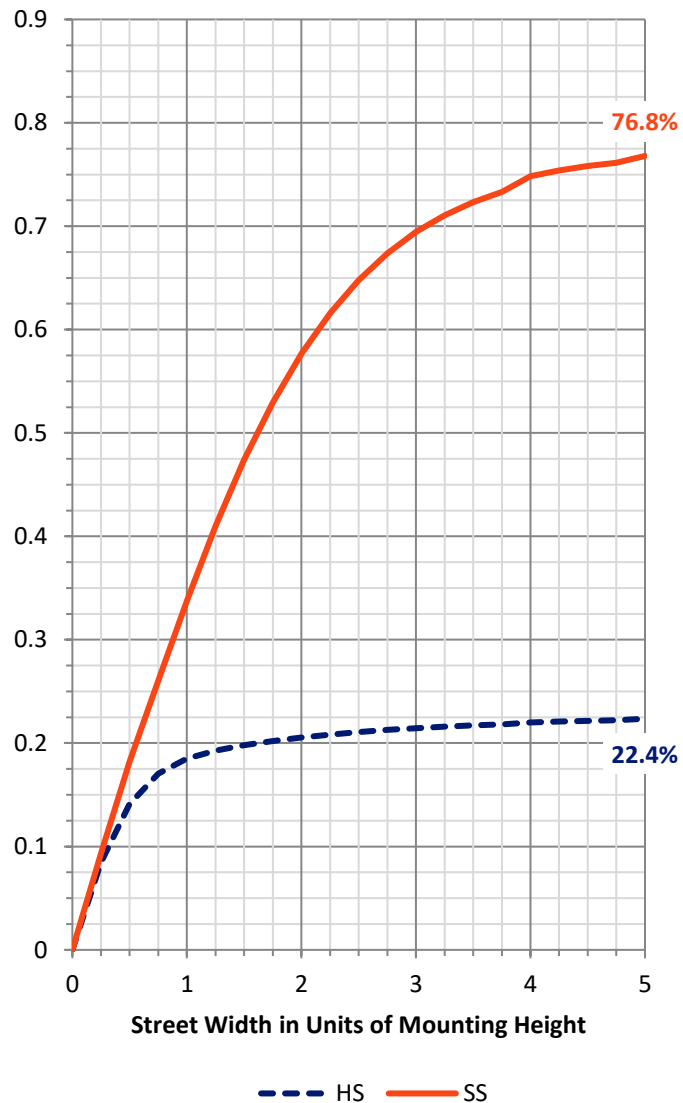
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2322.4 | 0.0 | 2322.4 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 7829.6 | 0.0 | 7829.6 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 10152.0 | 0.0 | 10152.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 107.5 | 1.1 |
| 10°-20° | 337.8 | 3.3 |
| 20°-30° | 570.6 | 5.6 |
| 30°-40° | 782.2 | 7.7 |
| 40°-50° | 1152.0 | 11.3 |
| 50°-60° | 1812.2 | 17.9 |
| 60°-70° | 2608.5 | 25.7 |
| 70°-80° | 2371.8 | 23.4 |
| 80°-90° | 409.5 | 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° | 10152.0 | 100.0 |
| 0°-180° | 10152.0 | 100.0 |

Coefficient of Utilization

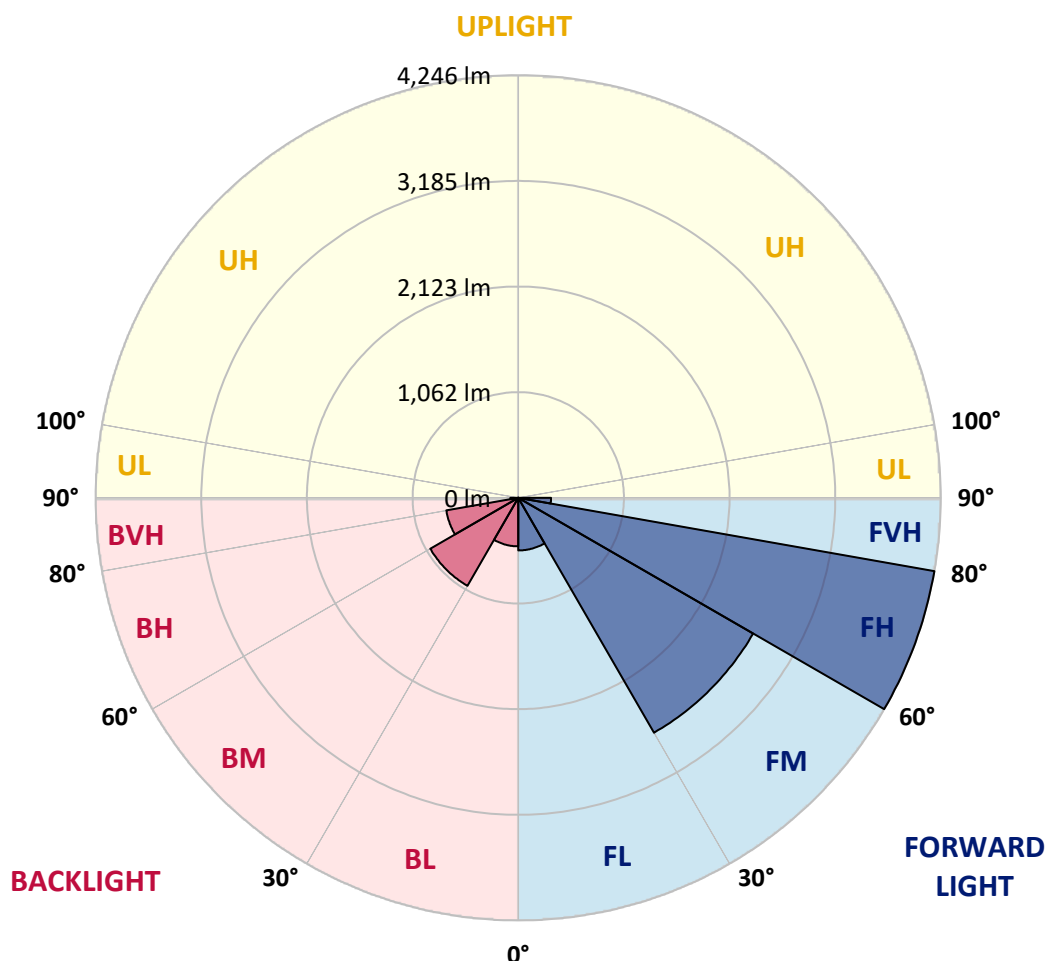


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 528.4 | 5.2 | | | |
| FM (30°-60°) | 2725.6 | 26.8 | | | |
| FH (60°-80°) | 4246.0 | 41.8 | | | G2/5000 |
| FVH (80°-90°) | 329.6 | 3.2 | | | G3/500 |
| BL (0°-30°) | 487.5 | 4.8 | B1/500 | | |
| BM (30°-60°) | 1020.7 | 10.1 | B2/2500 | | |
| BH (60°-80°) | 734.3 | 7.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 79.9 | 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° | 1106.5 | 1106.5 | 1106.5 | 1106.5 | 1106.5 | 1106.5 | 1106.5 | 1106.5 | 1106.5 | 1106.5 | 1106.5 |
| 2.5° | 1131.4 | 1131.4 | 1133.9 | 1128.9 | 1128.9 | 1116.5 | 1116.5 | 1114.0 | 1109.0 | 1106.5 | 1101.6 |
| 5° | 1173.7 | 1173.7 | 1166.2 | 1153.8 | 1146.3 | 1131.4 | 1124.0 | 1119.0 | 1109.0 | 1096.6 | 1084.2 |
| 7.5° | 1218.4 | 1213.5 | 1208.5 | 1188.6 | 1173.7 | 1146.3 | 1133.9 | 1126.4 | 1106.5 | 1089.1 | 1081.7 |
| 10° | 1265.7 | 1258.2 | 1245.8 | 1220.9 | 1198.5 | 1166.2 | 1151.3 | 1141.4 | 1119.0 | 1104.1 | 1086.7 |
| 12.5° | 1293.0 | 1293.0 | 1278.1 | 1248.3 | 1218.4 | 1178.7 | 1171.2 | 1158.8 | 1136.4 | 1116.5 | 1099.1 |
| 15° | 1320.4 | 1322.9 | 1308.0 | 1273.1 | 1238.3 | 1208.5 | 1196.1 | 1188.6 | 1163.7 | 1133.9 | 1111.5 |
| 17.5° | 1347.7 | 1345.3 | 1330.3 | 1290.6 | 1253.3 | 1225.9 | 1218.4 | 1208.5 | 1183.6 | 1156.3 | 1133.9 |
| 20° | 1367.6 | 1362.7 | 1357.7 | 1308.0 | 1270.7 | 1253.3 | 1243.3 | 1235.8 | 1211.0 | 1181.1 | 1151.3 |
| 22.5° | 1372.6 | 1377.6 | 1372.6 | 1312.9 | 1283.1 | 1263.2 | 1260.7 | 1253.3 | 1233.4 | 1206.0 | 1176.2 |
| 25° | 1375.1 | 1377.6 | 1385.0 | 1327.9 | 1300.5 | 1285.6 | 1280.6 | 1275.6 | 1260.7 | 1238.3 | 1198.5 |
| 27.5° | 1387.5 | 1390.0 | 1390.0 | 1337.8 | 1322.9 | 1312.9 | 1308.0 | 1308.0 | 1300.5 | 1273.1 | 1233.4 |
| 30° | 1390.0 | 1392.5 | 1397.5 | 1362.7 | 1357.7 | 1350.2 | 1352.7 | 1350.2 | 1337.8 | 1308.0 | 1263.2 |
| 32.5° | 1407.4 | 1409.9 | 1422.3 | 1377.6 | 1382.6 | 1390.0 | 1392.5 | 1390.0 | 1365.2 | 1340.3 | 1303.0 |
| 35° | 1464.6 | 1462.1 | 1472.1 | 1414.9 | 1409.9 | 1412.4 | 1419.9 | 1417.4 | 1407.4 | 1385.0 | 1360.2 |
| 37.5° | 1648.6 | 1648.6 | 1621.3 | 1501.9 | 1464.6 | 1459.6 | 1464.6 | 1477.1 | 1479.5 | 1459.6 | 1439.8 |
| 40° | 1971.9 | 1954.5 | 1939.6 | 1681.0 | 1561.6 | 1531.8 | 1546.7 | 1554.1 | 1574.0 | 1574.0 | 1574.0 |
| 42.5° | 2305.1 | 2307.6 | 2302.6 | 1959.5 | 1735.7 | 1661.1 | 1663.5 | 1681.0 | 1723.2 | 1730.7 | 1753.1 |
| 45° | 2601.0 | 2618.4 | 2655.7 | 2282.7 | 1991.8 | 1825.2 | 1807.8 | 1825.2 | 1884.9 | 1934.6 | 1991.8 |
| 47.5° | 2832.3 | 2812.4 | 2894.4 | 2620.9 | 2285.2 | 2049.0 | 2004.2 | 2009.2 | 2091.2 | 2170.8 | 2260.3 |
| 50° | 3031.2 | 3036.2 | 3073.5 | 2966.5 | 2655.7 | 2302.6 | 2242.9 | 2233.0 | 2349.9 | 2434.4 | 2586.1 |
| 52.5° | 3255.0 | 3240.1 | 3294.8 | 3269.9 | 3016.3 | 2613.4 | 2518.9 | 2489.1 | 2615.9 | 2735.3 | 2899.4 |
| 55° | 3361.9 | 3376.8 | 3488.7 | 3550.9 | 3356.9 | 2891.9 | 2787.5 | 2797.4 | 2931.7 | 3058.5 | 3287.3 |
| 57.5° | 3550.9 | 3565.8 | 3695.1 | 3824.4 | 3660.3 | 3187.8 | 3095.8 | 3095.8 | 3247.5 | 3389.3 | 3742.4 |
| 60° | 3809.5 | 3812.0 | 3943.8 | 4167.6 | 3926.4 | 3473.8 | 3414.1 | 3411.6 | 3575.8 | 3739.9 | 4279.5 |
| 62.5° | 3923.9 | 3953.7 | 4150.2 | 4441.1 | 4274.5 | 3824.4 | 3754.8 | 3774.7 | 3921.4 | 4112.9 | 4878.7 |
| 65° | 3769.7 | 3834.4 | 4244.7 | 4625.1 | 4585.3 | 4190.0 | 4162.6 | 4190.0 | 4279.5 | 4485.9 | 5512.8 |
| 67.5° | 3260.0 | 3347.0 | 4070.6 | 4749.4 | 4834.0 | 4612.7 | 4572.9 | 4567.9 | 4625.1 | 4856.4 | 5913.2 |
| 70° | 2996.4 | 3048.6 | 3610.6 | 4796.7 | 5032.9 | 5040.4 | 5040.4 | 5008.0 | 5000.6 | 5169.7 | 5950.5 |
| 72.5° | 2466.7 | 2521.4 | 3046.1 | 4533.1 | 5221.9 | 5612.3 | 5669.5 | 5550.1 | 5366.1 | 5331.3 | 5326.3 |
| 75° | 1758.0 | 1797.8 | 2250.4 | 3565.8 | 4980.7 | 6161.8 | 6276.2 | 6045.0 | 5532.7 | 4978.2 | 3884.1 |
| 76° | 1225.9 | 1283.1 | 1758.0 | 3046.1 | 4677.3 | 6171.8 | 6350.8 | 6082.3 | 5420.8 | 4674.8 | 3200.3 |
| 77.5° | 621.7 | 641.5 | 1017.0 | 2046.5 | 3913.9 | 5888.3 | 6062.4 | 5761.5 | 4933.4 | 3777.2 | 2031.6 |
| 80° | 236.2 | 243.7 | 363.0 | 746.0 | 2148.4 | 4572.9 | 4640.0 | 4234.7 | 3264.9 | 1613.8 | 731.1 |
| 82.5° | 124.3 | 129.3 | 203.9 | 368.0 | 882.7 | 2514.0 | 2837.2 | 2362.3 | 1280.6 | 484.9 | 213.8 |
| 85° | 62.2 | 67.1 | 119.4 | 223.8 | 437.6 | 785.8 | 910.1 | 860.4 | 425.2 | 184.0 | 79.6 |
| 87.5° | 24.9 | 29.8 | 59.7 | 99.5 | 176.5 | 154.2 | 171.6 | 221.3 | 136.8 | 87.0 | 27.4 |
| 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° | 1106.5 | 1106.5 | 1106.5 | 1106.5 | 1106.5 | 1106.5 | 1106.5 | 1106.5 | 1106.5 | 1106.5 | 1106.5 |
| 2.5° | 1101.6 | 1099.1 | 1101.6 | 1099.1 | 1101.6 | 1101.6 | 1104.1 | 1099.1 | 1099.1 | 1104.1 | 1096.6 |
| 5° | 1084.2 | 1081.7 | 1084.2 | 1089.1 | 1091.6 | 1096.6 | 1106.5 | 1104.1 | 1109.0 | 1114.0 | 1116.5 |
| 7.5° | 1076.7 | 1074.2 | 1081.7 | 1084.2 | 1091.6 | 1101.6 | 1116.5 | 1126.4 | 1131.4 | 1141.4 | 1136.4 |
| 10° | 1084.2 | 1084.2 | 1094.1 | 1101.6 | 1114.0 | 1126.4 | 1138.9 | 1148.8 | 1161.3 | 1168.7 | 1166.2 |
| 12.5° | 1096.6 | 1094.1 | 1111.5 | 1121.5 | 1138.9 | 1151.3 | 1161.3 | 1166.2 | 1176.2 | 1186.1 | 1183.6 |
| 15° | 1109.0 | 1111.5 | 1136.4 | 1156.3 | 1176.2 | 1181.1 | 1183.6 | 1178.7 | 1183.6 | 1188.6 | 1188.6 |
| 17.5° | 1133.9 | 1136.4 | 1163.7 | 1186.1 | 1203.5 | 1198.5 | 1186.1 | 1173.7 | 1173.7 | 1176.2 | 1178.7 |
| 20° | 1153.8 | 1158.8 | 1191.1 | 1211.0 | 1220.9 | 1201.0 | 1181.1 | 1166.2 | 1158.8 | 1161.3 | 1158.8 |
| 22.5° | 1176.2 | 1186.1 | 1218.4 | 1228.4 | 1213.5 | 1188.6 | 1163.7 | 1143.8 | 1143.8 | 1146.3 | 1146.3 |
| 25° | 1203.5 | 1208.5 | 1230.9 | 1225.9 | 1198.5 | 1161.3 | 1141.4 | 1133.9 | 1131.4 | 1133.9 | 1136.4 |
| 27.5° | 1228.4 | 1230.9 | 1243.3 | 1208.5 | 1156.3 | 1116.5 | 1109.0 | 1111.5 | 1114.0 | 1116.5 | 1119.0 |
| 30° | 1260.7 | 1265.7 | 1253.3 | 1183.6 | 1104.1 | 1059.3 | 1059.3 | 1074.2 | 1079.2 | 1086.7 | 1084.2 |
| 32.5° | 1300.5 | 1305.5 | 1268.2 | 1151.3 | 1036.9 | 992.2 | 994.6 | 1017.0 | 1031.9 | 1036.9 | 1039.4 |
| 35° | 1367.6 | 1357.7 | 1278.1 | 1106.5 | 964.8 | 910.1 | 912.6 | 939.9 | 959.8 | 967.3 | 962.3 |
| 37.5° | 1449.7 | 1447.2 | 1293.0 | 1049.4 | 875.3 | 825.6 | 828.0 | 840.5 | 860.4 | 862.9 | 865.3 |
| 40° | 1586.5 | 1566.6 | 1317.9 | 974.8 | 785.8 | 738.5 | 733.6 | 741.0 | 738.5 | 743.5 | 746.0 |
| 42.5° | 1782.9 | 1730.7 | 1350.2 | 890.2 | 706.2 | 656.5 | 651.5 | 639.1 | 624.1 | 609.2 | 601.8 |
| 45° | 2014.2 | 1932.1 | 1390.0 | 803.2 | 624.1 | 579.4 | 566.9 | 552.0 | 522.2 | 489.9 | 479.9 |
| 47.5° | 2312.6 | 2155.9 | 1434.8 | 716.1 | 547.1 | 512.2 | 502.3 | 479.9 | 445.1 | 407.8 | 400.3 |
| 50° | 2618.4 | 2419.5 | 1479.5 | 644.0 | 484.9 | 465.0 | 455.1 | 432.7 | 387.9 | 353.1 | 345.6 |
| 52.5° | 2974.0 | 2680.6 | 1526.8 | 579.4 | 430.2 | 430.2 | 422.7 | 387.9 | 345.6 | 313.3 | 308.3 |
| 55° | 3384.3 | 2949.1 | 1601.4 | 517.2 | 390.4 | 400.3 | 390.4 | 355.6 | 315.8 | 293.4 | 290.9 |
| 57.5° | 3874.2 | 3289.8 | 1695.9 | 450.1 | 355.6 | 363.0 | 363.0 | 338.2 | 310.8 | 295.9 | 293.4 |
| 60° | 4366.5 | 3635.4 | 1755.6 | 400.3 | 328.2 | 335.7 | 350.6 | 338.2 | 320.8 | 313.3 | 310.8 |
| 62.5° | 4839.0 | 3988.5 | 1653.6 | 358.1 | 300.9 | 323.3 | 360.6 | 363.0 | 345.6 | 348.1 | 348.1 |
| 65° | 5192.1 | 4257.1 | 1337.8 | 320.8 | 283.5 | 330.7 | 390.4 | 392.9 | 363.0 | 355.6 | 353.1 |
| 67.5° | 5313.9 | 4331.7 | 900.2 | 295.9 | 273.5 | 335.7 | 425.2 | 415.3 | 363.0 | 348.1 | 340.7 |
| 70° | 5082.6 | 4058.2 | 584.4 | 273.5 | 258.6 | 330.7 | 452.6 | 427.7 | 360.6 | 338.2 | 328.2 |
| 72.5° | 4262.1 | 3461.4 | 390.4 | 253.6 | 243.7 | 325.7 | 470.0 | 427.7 | 353.1 | 320.8 | 310.8 |
| 75° | 2959.1 | 2364.8 | 290.9 | 228.8 | 221.3 | 318.3 | 474.9 | 420.2 | 335.7 | 300.9 | 293.4 |
| 76° | 2374.7 | 1773.0 | 263.6 | 218.8 | 211.4 | 313.3 | 472.5 | 412.8 | 323.3 | 290.9 | 283.5 |
| 77.5° | 1499.4 | 1019.5 | 221.3 | 201.4 | 196.4 | 303.4 | 462.5 | 395.4 | 305.9 | 273.5 | 266.1 |
| 80° | 524.7 | 373.0 | 169.1 | 164.1 | 166.6 | 281.0 | 435.2 | 360.6 | 271.0 | 241.2 | 231.3 |
| 82.5° | 208.9 | 171.6 | 126.8 | 126.8 | 131.8 | 241.2 | 392.9 | 318.3 | 236.2 | 198.9 | 184.0 |
| 85° | 82.1 | 74.6 | 89.5 | 89.5 | 94.5 | 196.4 | 328.2 | 248.7 | 161.6 | 124.3 | 119.4 |
| 87.5° | 24.9 | 34.8 | 39.8 | 42.3 | 44.8 | 99.5 | 186.5 | 109.4 | 72.1 | 52.2 | 42.3 |
| 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)