

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: P200696

Luminaire Tested: **GPC-AF-02-LED-E1-T4W-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-02-LED-E1-T4W-8030
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10066 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

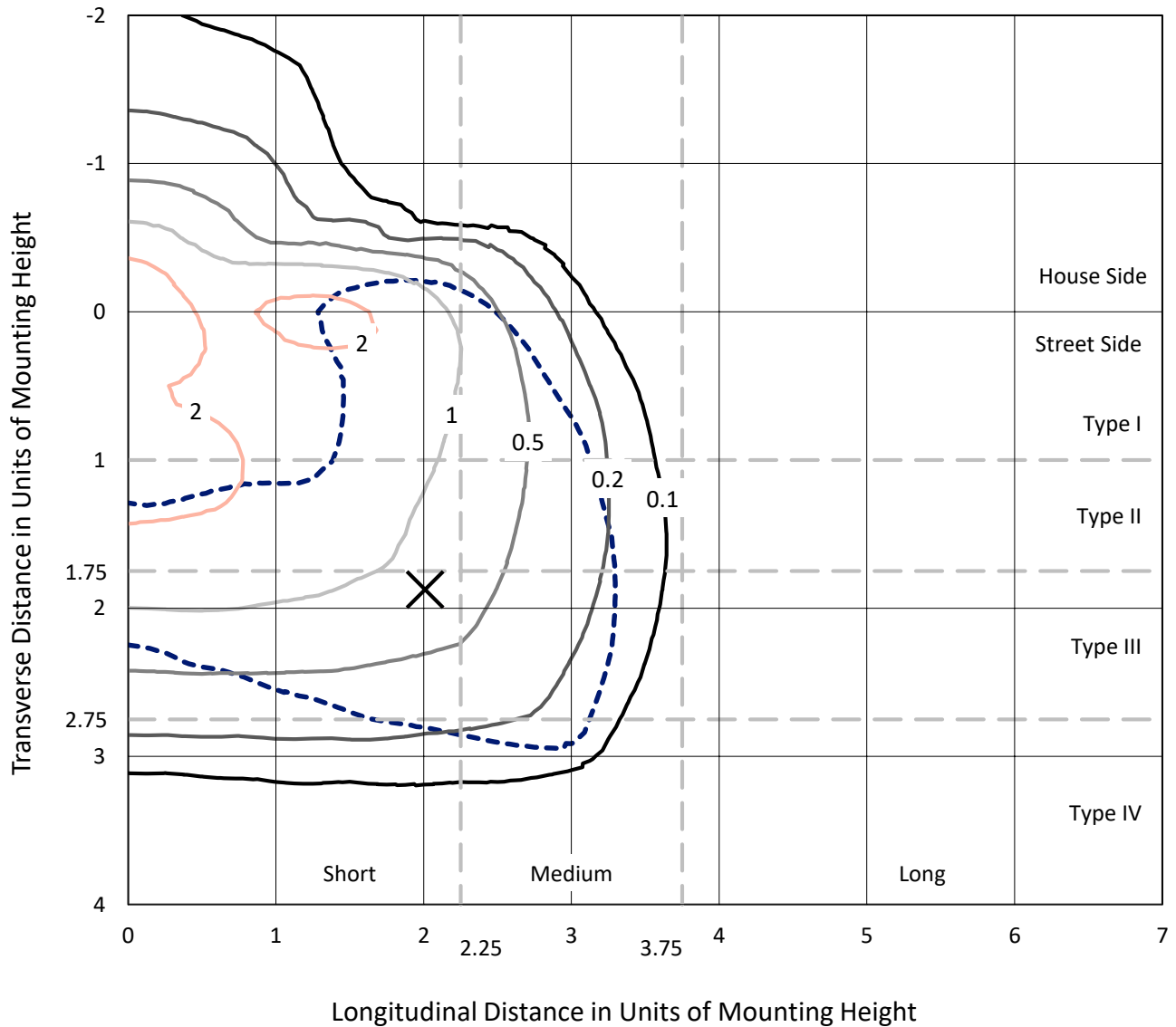
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

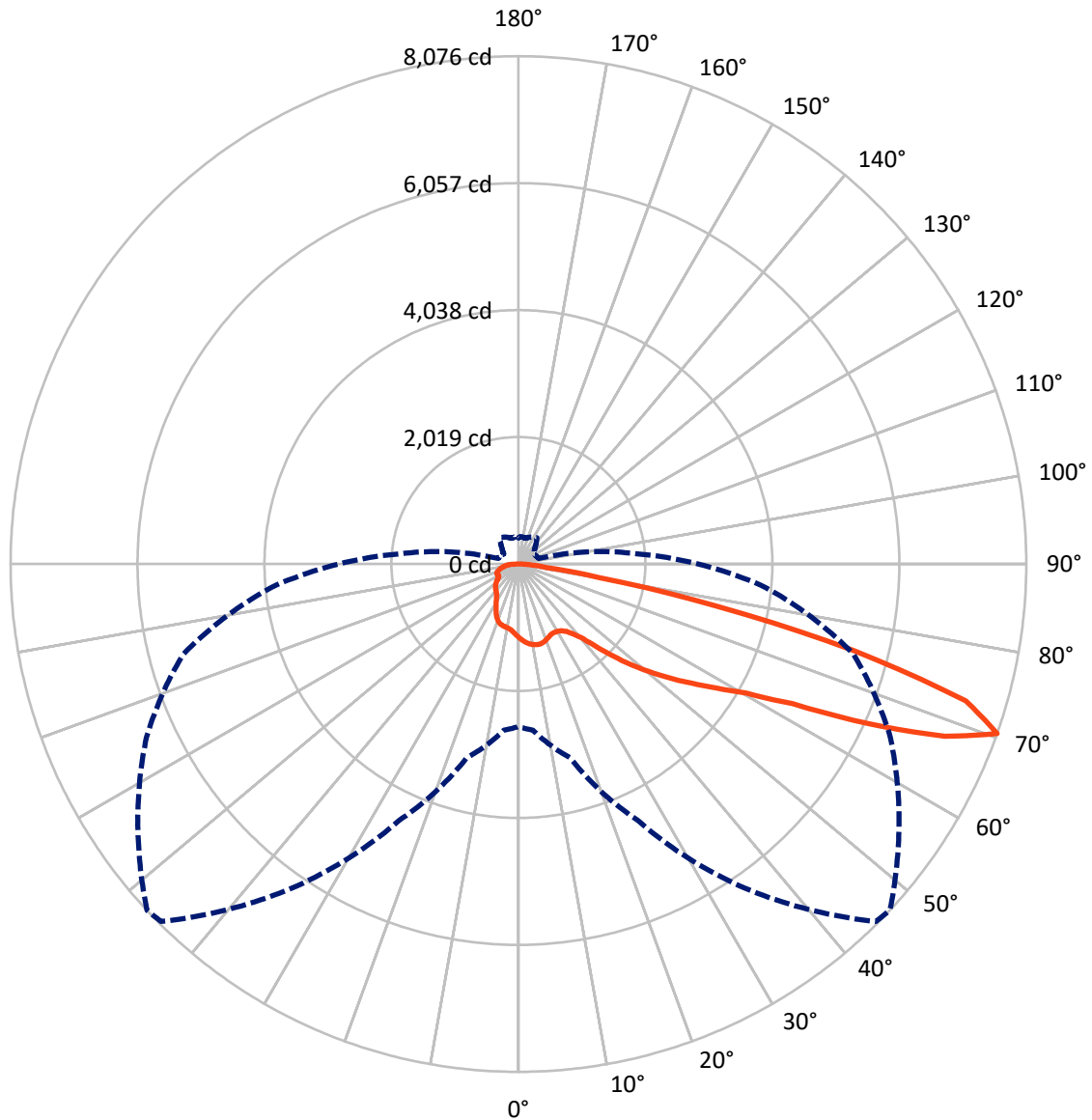
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2100.0 | 0.0 | 2100.0 |
| | % Fixture | 20.9 | 0.0 | 20.9 |
| Street Side | Lumens | 7966.0 | 0.0 | 7966.0 |
| | % Fixture | 79.1 | 0.0 | 79.1 |
| Total | Lumens | 10066.0 | 0.0 | 10066.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 111.9 | 1.1 |
| 10°-20° | 328.3 | 3.3 |
| 20°-30° | 484.8 | 4.8 |
| 30°-40° | 704.7 | 7.0 |
| 40°-50° | 1268.2 | 12.6 |
| 50°-60° | 2197.0 | 21.8 |
| 60°-70° | 3135.8 | 31.2 |
| 70°-80° | 1609.8 | 16.0 |
| 80°-90° | 225.4 | 2.2 |
| 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° | 10066.0 | 100.0 |
| 0°-180° | 10066.0 | 100.0 |



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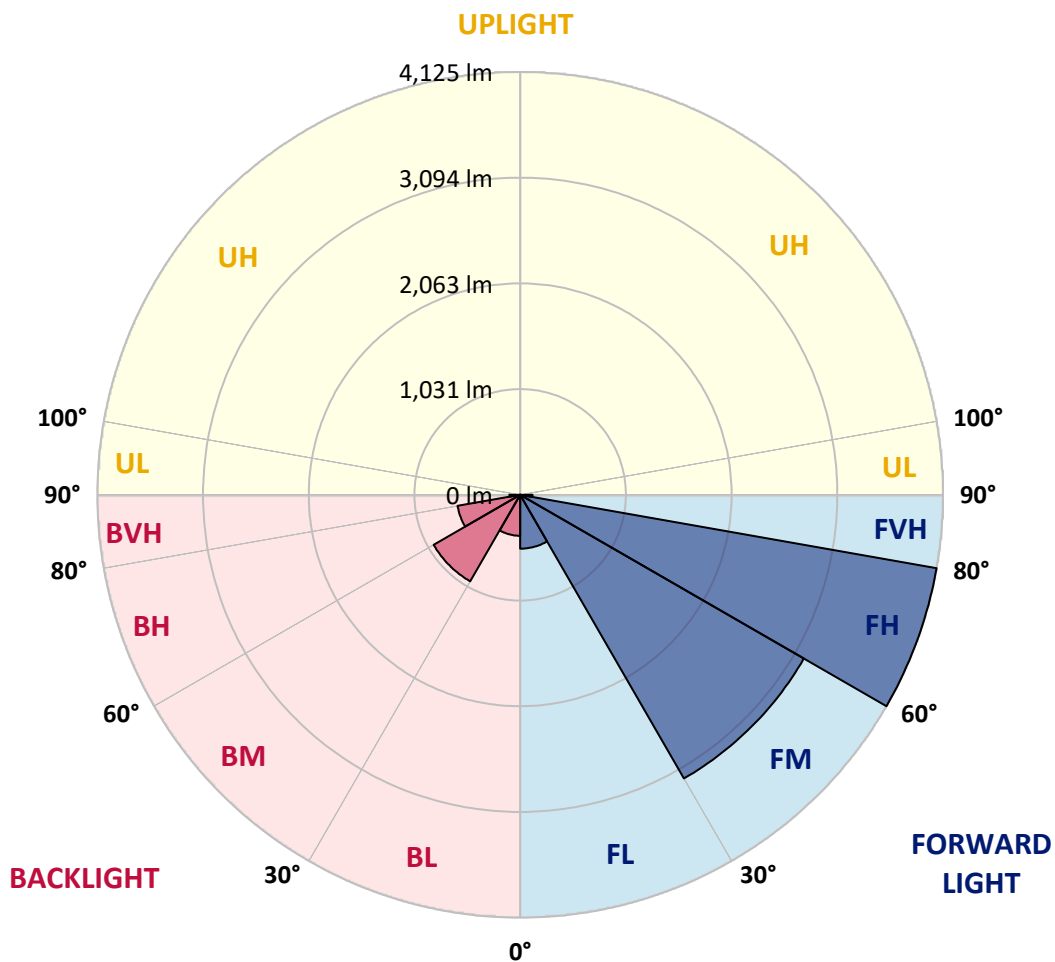
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 525.2 | 5.2 | | | |
| FM | (30°-60°) | 3195.2 | 31.7 | | | |
| FH | (60°-80°) | 4125.3 | 41.0 | | | G2/5000 |
| FVH | (80°-90°) | 120.3 | 1.2 | | | G2/225 |
| BL | (0°-30°) | 399.8 | 4.0 | B1/500 | | |
| BM | (30°-60°) | 974.7 | 9.7 | B1/1000 | | |
| BH | (60°-80°) | 620.3 | 6.2 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 105.1 | 1.0 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1168.0 | 1168.0 | 1168.0 | 1168.0 | 1168.0 | 1168.0 | 1168.0 | 1168.0 | 1168.0 | 1168.0 | 1168.0 |
| 2.5° | 1236.5 | 1234.1 | 1233.1 | 1231.1 | 1228.7 | 1216.5 | 1214.0 | 1205.2 | 1192.9 | 1180.2 | 1167.0 |
| 5° | 1317.8 | 1317.3 | 1311.9 | 1302.2 | 1286.5 | 1259.5 | 1253.2 | 1231.6 | 1202.7 | 1174.8 | 1146.9 |
| 7.5° | 1389.3 | 1384.9 | 1374.6 | 1355.0 | 1327.6 | 1290.9 | 1282.1 | 1252.2 | 1212.5 | 1174.3 | 1136.6 |
| 10° | 1441.7 | 1439.3 | 1416.7 | 1389.8 | 1354.1 | 1313.4 | 1303.1 | 1269.8 | 1226.2 | 1177.8 | 1130.8 |
| 12.5° | 1471.6 | 1466.7 | 1440.7 | 1408.4 | 1365.8 | 1326.1 | 1315.9 | 1282.1 | 1233.1 | 1177.8 | 1122.4 |
| 15° | 1469.6 | 1466.2 | 1440.3 | 1405.0 | 1361.9 | 1327.1 | 1317.8 | 1284.0 | 1231.6 | 1172.9 | 1111.7 |
| 17.5° | 1430.5 | 1431.9 | 1409.9 | 1375.1 | 1339.9 | 1313.4 | 1305.1 | 1273.7 | 1221.8 | 1163.1 | 1098.9 |
| 20° | 1361.9 | 1368.8 | 1354.1 | 1323.2 | 1303.6 | 1285.5 | 1280.1 | 1253.7 | 1206.7 | 1148.9 | 1085.2 |
| 22.5° | 1293.3 | 1299.7 | 1293.8 | 1267.9 | 1264.9 | 1254.2 | 1251.2 | 1232.1 | 1193.4 | 1140.1 | 1076.9 |
| 25° | 1242.9 | 1248.8 | 1247.8 | 1225.3 | 1234.1 | 1233.6 | 1231.1 | 1221.8 | 1190.5 | 1140.1 | 1078.4 |
| 27.5° | 1229.2 | 1231.1 | 1229.2 | 1208.6 | 1220.9 | 1230.7 | 1228.7 | 1227.2 | 1199.3 | 1154.3 | 1097.0 |
| 30° | 1276.2 | 1273.3 | 1258.1 | 1216.5 | 1227.7 | 1241.4 | 1239.5 | 1240.4 | 1225.8 | 1191.5 | 1138.6 |
| 32.5° | 1463.8 | 1450.5 | 1402.5 | 1285.5 | 1255.6 | 1263.0 | 1264.0 | 1280.1 | 1282.6 | 1248.8 | 1203.2 |
| 35° | 1744.4 | 1729.7 | 1667.5 | 1470.6 | 1342.3 | 1316.8 | 1316.8 | 1341.3 | 1356.0 | 1331.0 | 1303.6 |
| 37.5° | 2041.6 | 2025.5 | 1992.2 | 1727.2 | 1524.5 | 1410.4 | 1407.9 | 1425.1 | 1446.1 | 1452.0 | 1458.9 |
| 40° | 2379.5 | 2362.4 | 2371.7 | 2015.2 | 1778.6 | 1572.5 | 1537.7 | 1525.5 | 1582.3 | 1620.0 | 1674.8 |
| 42.5° | 2749.3 | 2741.4 | 2744.9 | 2335.9 | 2068.1 | 1814.9 | 1765.4 | 1702.2 | 1770.8 | 1837.9 | 1953.0 |
| 45° | 3091.6 | 3098.4 | 3095.0 | 2679.2 | 2390.3 | 2110.7 | 2058.3 | 1935.8 | 2002.9 | 2118.0 | 2305.6 |
| 47.5° | 3391.3 | 3362.9 | 3406.9 | 3054.4 | 2751.2 | 2441.7 | 2377.1 | 2213.0 | 2281.1 | 2423.1 | 2740.4 |
| 50° | 3755.1 | 3751.2 | 3686.6 | 3554.8 | 3187.6 | 2774.2 | 2689.5 | 2499.5 | 2605.3 | 2802.6 | 3288.4 |
| 52.5° | 4137.6 | 4066.6 | 4007.3 | 3944.2 | 3650.3 | 3115.1 | 3011.3 | 2785.0 | 2986.3 | 3234.6 | 3956.4 |
| 55° | 4216.0 | 4184.1 | 4257.6 | 4363.8 | 4096.5 | 3469.1 | 3348.2 | 3143.0 | 3415.3 | 3728.2 | 4726.7 |
| 57.5° | 4383.4 | 4382.9 | 4534.8 | 4724.3 | 4555.8 | 3844.7 | 3722.8 | 3575.4 | 3897.6 | 4293.8 | 5544.5 |
| 60° | 4496.6 | 4528.4 | 4810.5 | 5178.2 | 5006.8 | 4278.6 | 4166.5 | 4074.4 | 4446.1 | 4926.0 | 6306.5 |
| 62.5° | 4555.8 | 4598.9 | 4983.8 | 5362.4 | 5644.5 | 5001.0 | 4888.8 | 4756.1 | 5171.9 | 5619.5 | 6752.2 |
| 65° | 4309.5 | 4394.2 | 4956.9 | 5521.5 | 6202.7 | 6171.9 | 6121.4 | 5888.3 | 6079.3 | 6167.5 | 6591.1 |
| 67.5° | 3627.8 | 3714.5 | 4369.7 | 5373.1 | 6601.4 | 7301.2 | 7311.9 | 6913.8 | 6637.6 | 6214.5 | 5541.6 |
| 70° | 2584.7 | 2652.8 | 3194.9 | 4504.9 | 6297.7 | 8039.2 | 8075.9 | 7386.4 | 6526.4 | 5511.2 | 3871.7 |
| 72.5° | 1227.2 | 1268.9 | 1782.1 | 2931.9 | 4997.5 | 7365.8 | 7436.8 | 6783.0 | 5549.4 | 4080.3 | 2112.1 |
| 75° | 451.0 | 463.8 | 602.3 | 1247.3 | 2898.6 | 5431.9 | 5515.7 | 4862.4 | 3678.7 | 2031.3 | 804.6 |
| 77.5° | 270.3 | 278.6 | 337.9 | 526.4 | 1140.1 | 3104.8 | 3228.7 | 2644.5 | 1607.7 | 756.1 | 395.7 |
| 80° | 189.0 | 194.9 | 242.4 | 327.6 | 538.7 | 1183.2 | 1293.3 | 1079.3 | 640.5 | 478.5 | 288.0 |
| 82.5° | 127.8 | 130.8 | 170.4 | 221.4 | 358.0 | 422.6 | 455.9 | 479.9 | 431.9 | 356.0 | 182.7 |
| 85° | 83.7 | 86.7 | 115.6 | 145.9 | 227.7 | 218.4 | 223.3 | 282.6 | 315.4 | 241.9 | 101.4 |
| 87.5° | 48.0 | 50.0 | 69.5 | 77.9 | 111.7 | 92.6 | 93.5 | 148.9 | 201.8 | 163.1 | 61.7 |
| 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° | 1168.0 | 1168.0 | 1168.0 | 1168.0 | 1168.0 | 1168.0 | 1168.0 | 1168.0 | 1168.0 | 1168.0 | 1168.0 |
| 2.5° | 1163.6 | 1157.2 | 1143.0 | 1134.2 | 1125.9 | 1123.9 | 1120.5 | 1120.0 | 1119.5 | 1119.5 | 1118.0 |
| 5° | 1137.6 | 1126.8 | 1104.8 | 1092.6 | 1082.3 | 1081.3 | 1080.8 | 1083.2 | 1084.2 | 1085.2 | 1083.7 |
| 7.5° | 1121.0 | 1106.3 | 1078.8 | 1061.2 | 1049.0 | 1046.0 | 1050.9 | 1062.2 | 1069.5 | 1072.5 | 1071.0 |
| 10° | 1110.7 | 1092.6 | 1060.7 | 1041.6 | 1031.3 | 1029.9 | 1036.2 | 1049.5 | 1064.6 | 1070.5 | 1070.0 |
| 12.5° | 1098.9 | 1078.4 | 1044.6 | 1024.5 | 1018.6 | 1021.5 | 1029.9 | 1042.1 | 1057.8 | 1067.1 | 1067.6 |
| 15° | 1087.2 | 1063.2 | 1028.4 | 1010.8 | 1008.3 | 1012.2 | 1020.1 | 1029.4 | 1041.6 | 1050.9 | 1051.9 |
| 17.5° | 1073.0 | 1048.0 | 1013.2 | 995.1 | 993.1 | 995.1 | 995.6 | 1000.5 | 1008.3 | 1017.1 | 1019.6 |
| 20° | 1057.8 | 1032.3 | 996.1 | 978.0 | 969.1 | 961.3 | 952.5 | 953.5 | 955.9 | 964.7 | 966.7 |
| 22.5° | 1047.0 | 1021.5 | 982.9 | 957.9 | 934.4 | 910.9 | 893.2 | 890.8 | 891.8 | 899.1 | 901.6 |
| 25° | 1048.0 | 1021.1 | 979.4 | 936.3 | 884.9 | 847.2 | 823.7 | 819.8 | 819.3 | 824.7 | 828.1 |
| 27.5° | 1067.1 | 1040.2 | 992.2 | 914.3 | 831.0 | 775.2 | 750.2 | 747.3 | 743.4 | 744.9 | 748.8 |
| 30° | 1109.7 | 1084.7 | 1023.0 | 891.8 | 772.8 | 704.7 | 678.7 | 675.8 | 670.4 | 668.0 | 670.9 |
| 32.5° | 1179.2 | 1158.7 | 1068.1 | 870.2 | 714.5 | 644.5 | 618.0 | 611.7 | 608.2 | 605.3 | 607.7 |
| 35° | 1294.8 | 1286.0 | 1128.3 | 846.7 | 663.1 | 597.9 | 573.9 | 564.2 | 559.3 | 564.6 | 568.6 |
| 37.5° | 1476.0 | 1480.9 | 1207.1 | 810.0 | 623.4 | 567.1 | 547.0 | 535.7 | 528.4 | 532.8 | 537.2 |
| 40° | 1732.6 | 1736.0 | 1294.3 | 758.1 | 589.1 | 549.0 | 527.4 | 517.1 | 506.9 | 499.0 | 498.5 |
| 42.5° | 2069.5 | 2034.8 | 1380.0 | 701.8 | 549.5 | 537.7 | 513.7 | 501.0 | 485.3 | 463.8 | 459.4 |
| 45° | 2469.1 | 2347.2 | 1445.1 | 637.1 | 504.9 | 524.0 | 498.5 | 480.9 | 456.4 | 432.9 | 430.5 |
| 47.5° | 2929.5 | 2682.7 | 1477.0 | 570.0 | 463.3 | 503.9 | 479.9 | 452.0 | 421.2 | 409.4 | 407.9 |
| 50° | 3491.7 | 3080.8 | 1492.2 | 504.9 | 427.0 | 477.5 | 453.0 | 420.2 | 394.2 | 391.8 | 390.3 |
| 52.5° | 4131.7 | 3559.7 | 1497.1 | 451.5 | 397.2 | 443.2 | 430.9 | 399.1 | 378.5 | 380.5 | 380.5 |
| 55° | 4801.7 | 4054.3 | 1430.5 | 412.8 | 369.7 | 407.9 | 416.3 | 390.8 | 373.7 | 381.5 | 384.4 |
| 57.5° | 5416.7 | 4492.6 | 1220.9 | 383.0 | 343.8 | 381.0 | 410.9 | 398.6 | 386.9 | 418.7 | 420.7 |
| 60° | 5888.8 | 4751.7 | 911.8 | 356.0 | 324.7 | 371.7 | 425.1 | 428.5 | 431.4 | 507.3 | 517.6 |
| 62.5° | 5987.7 | 4665.5 | 626.8 | 335.0 | 315.9 | 379.5 | 451.0 | 451.5 | 448.1 | 501.0 | 507.3 |
| 65° | 5533.8 | 4120.5 | 455.9 | 323.2 | 308.5 | 393.7 | 473.1 | 462.8 | 440.3 | 480.4 | 468.7 |
| 67.5° | 4394.7 | 3104.3 | 379.5 | 314.4 | 297.7 | 392.8 | 496.6 | 473.1 | 435.8 | 470.6 | 451.5 |
| 70° | 2852.6 | 1877.1 | 337.9 | 307.1 | 285.0 | 374.1 | 510.3 | 472.1 | 423.1 | 437.8 | 415.3 |
| 72.5° | 1391.8 | 839.4 | 310.0 | 296.3 | 271.8 | 348.2 | 509.8 | 463.3 | 409.9 | 408.9 | 396.7 |
| 75° | 544.6 | 384.4 | 284.5 | 280.1 | 249.3 | 318.8 | 496.1 | 450.5 | 394.2 | 378.5 | 374.1 |
| 77.5° | 318.8 | 274.2 | 252.2 | 256.1 | 222.3 | 289.4 | 476.0 | 428.5 | 372.7 | 354.1 | 349.2 |
| 80° | 232.1 | 205.2 | 215.0 | 221.4 | 190.0 | 260.0 | 449.1 | 401.6 | 348.7 | 358.0 | 351.1 |
| 82.5° | 148.9 | 132.2 | 174.3 | 180.7 | 158.2 | 230.2 | 419.7 | 373.2 | 314.9 | 286.0 | 279.1 |
| 85° | 75.9 | 83.7 | 129.8 | 137.6 | 121.9 | 189.0 | 383.9 | 335.5 | 276.7 | 238.0 | 241.9 |
| 87.5° | 42.6 | 57.3 | 82.8 | 92.6 | 86.2 | 145.4 | 311.5 | 276.7 | 225.8 | 183.6 | 161.6 |
| 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)