

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: P270077

Luminaire Tested: **GPC-AF-02-LED-E1-T4W-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270077
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-7027
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 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: 10717.8 lumens
Efficiency: N/A
Efficacy: 94.8 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

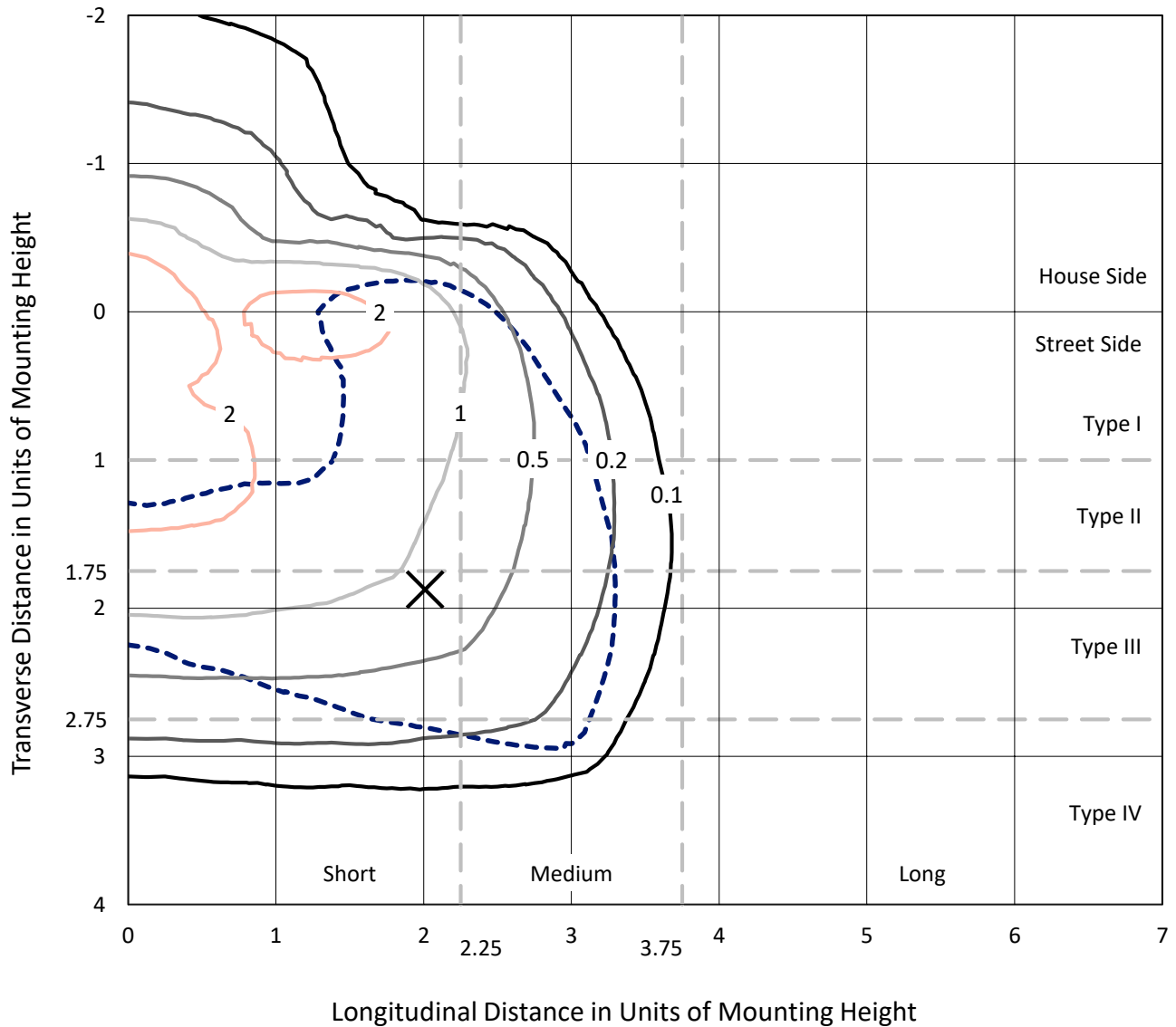
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

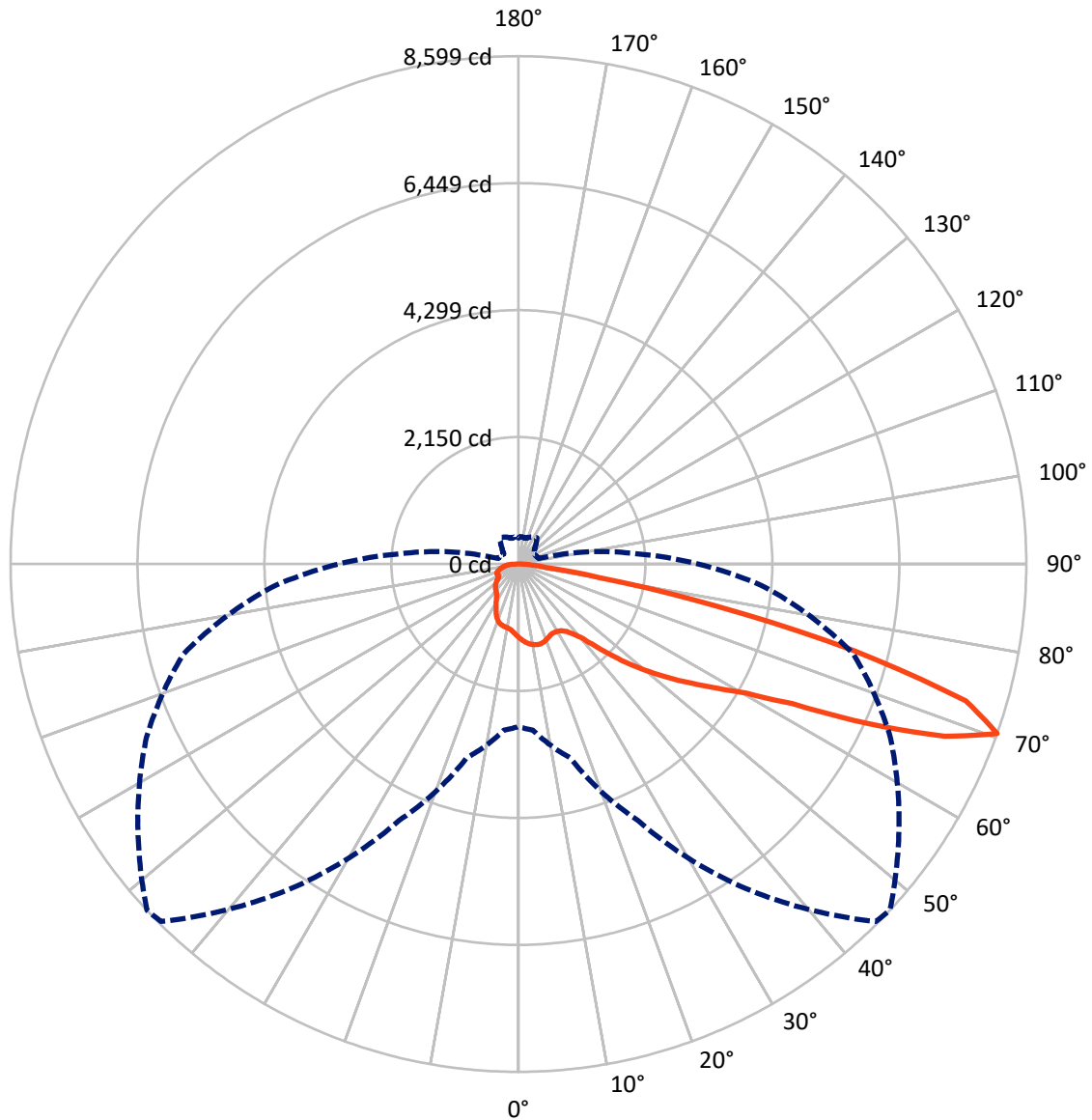
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 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 | 2235.9 | 0.0 | 2235.9 |
| | % Fixture | 20.9 | 0.0 | 20.9 |
| Street Side | Lumens | 8481.8 | 0.0 | 8481.8 |
| | % Fixture | 79.1 | 0.0 | 79.1 |
| Total | Lumens | 10717.8 | 0.0 | 10717.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 119.2 | 1.1 |
| 10°-20° | 349.6 | 3.3 |
| 20°-30° | 516.2 | 4.8 |
| 30°-40° | 750.3 | 7.0 |
| 40°-50° | 1350.3 | 12.6 |
| 50°-60° | 2339.3 | 21.8 |
| 60°-70° | 3338.9 | 31.2 |
| 70°-80° | 1714.0 | 16.0 |
| 80°-90° | 240.0 | 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° | 10717.8 | 100.0 |
| 0°-180° | 10717.8 | 100.0 |



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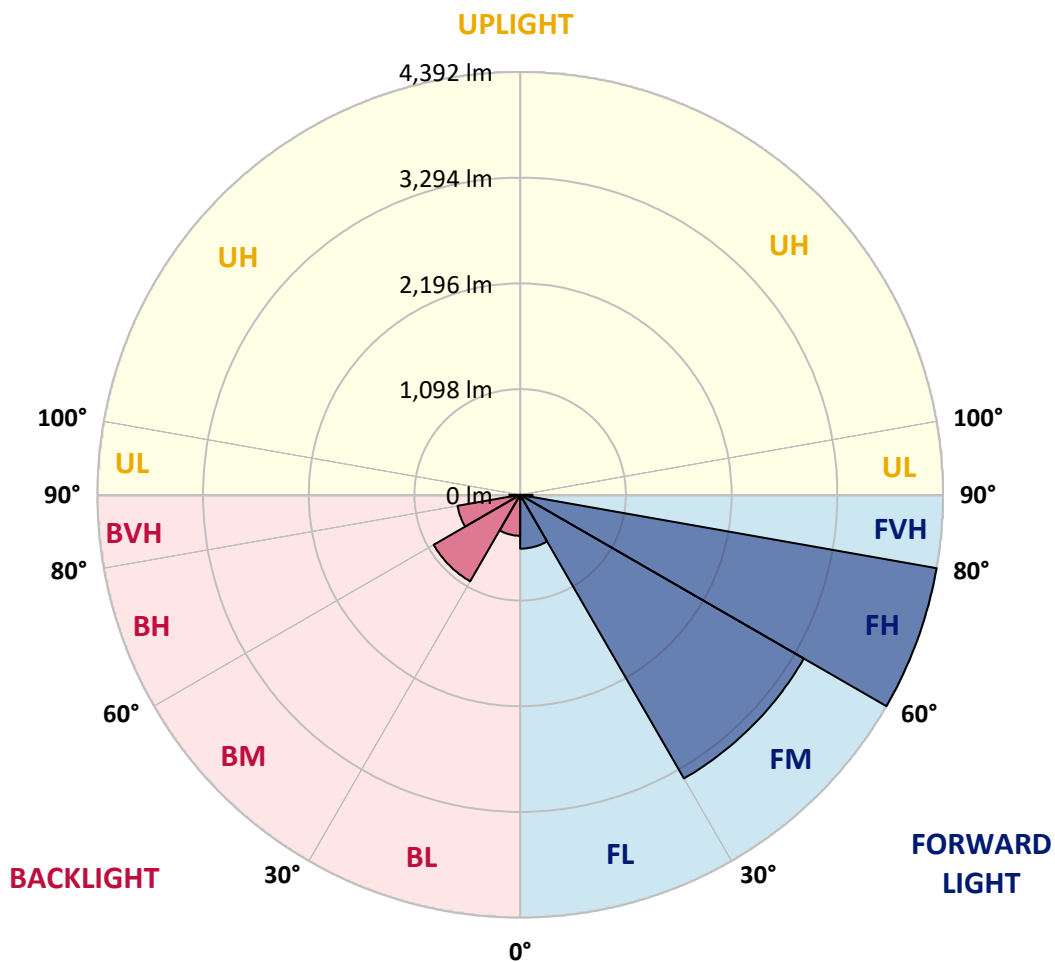
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 559.2 | 5.2 | | | |
| FM | (30°-60°) | 3402.1 | 31.7 | | | |
| FH | (60°-80°) | 4392.4 | 41.0 | | | G2/5000 |
| FVH | (80°-90°) | 128.0 | 1.2 | | | G2/225 |
| BL | (0°-30°) | 425.7 | 4.0 | B1/500 | | |
| BM | (30°-60°) | 1037.9 | 9.7 | B2/2500 | | |
| BH | (60°-80°) | 660.4 | 6.2 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 111.9 | 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° | 1243.7 | 1243.7 | 1243.7 | 1243.7 | 1243.7 | 1243.7 | 1243.7 | 1243.7 | 1243.7 | 1243.7 | 1243.7 |
| 2.5° | 1316.6 | 1314.0 | 1313.0 | 1310.8 | 1308.2 | 1295.3 | 1292.7 | 1283.1 | 1270.3 | 1256.5 | 1242.5 |
| 5° | 1403.2 | 1402.7 | 1397.0 | 1386.4 | 1369.7 | 1341.1 | 1334.3 | 1311.3 | 1280.7 | 1250.9 | 1221.2 |
| 7.5° | 1479.2 | 1474.6 | 1463.7 | 1442.8 | 1413.7 | 1374.4 | 1365.1 | 1333.3 | 1291.0 | 1250.4 | 1210.2 |
| 10° | 1535.1 | 1532.5 | 1508.4 | 1479.8 | 1441.7 | 1398.4 | 1387.5 | 1352.0 | 1305.6 | 1254.0 | 1204.0 |
| 12.5° | 1566.9 | 1561.7 | 1534.0 | 1499.6 | 1454.3 | 1412.0 | 1401.0 | 1365.1 | 1313.0 | 1254.0 | 1195.1 |
| 15° | 1564.8 | 1561.2 | 1533.4 | 1495.9 | 1450.0 | 1413.0 | 1403.2 | 1367.2 | 1311.3 | 1248.9 | 1183.6 |
| 17.5° | 1523.0 | 1524.7 | 1501.2 | 1464.1 | 1426.6 | 1398.4 | 1389.6 | 1356.3 | 1300.9 | 1238.4 | 1170.1 |
| 20° | 1450.0 | 1457.4 | 1441.7 | 1408.9 | 1388.1 | 1368.7 | 1363.0 | 1334.8 | 1284.8 | 1223.2 | 1155.5 |
| 22.5° | 1377.1 | 1383.8 | 1377.6 | 1350.0 | 1346.7 | 1335.4 | 1332.2 | 1312.0 | 1270.7 | 1213.9 | 1146.5 |
| 25° | 1323.4 | 1329.6 | 1328.7 | 1304.6 | 1314.0 | 1313.4 | 1310.8 | 1300.9 | 1267.6 | 1213.9 | 1148.2 |
| 27.5° | 1308.8 | 1310.8 | 1308.8 | 1286.9 | 1299.8 | 1310.4 | 1308.2 | 1306.7 | 1277.0 | 1229.1 | 1167.9 |
| 30° | 1358.9 | 1355.7 | 1339.6 | 1295.3 | 1307.3 | 1321.8 | 1319.7 | 1320.8 | 1305.1 | 1268.6 | 1212.4 |
| 32.5° | 1558.5 | 1544.5 | 1493.3 | 1368.7 | 1336.9 | 1344.8 | 1345.8 | 1363.0 | 1365.7 | 1329.6 | 1281.2 |
| 35° | 1857.3 | 1841.6 | 1775.4 | 1565.8 | 1429.3 | 1402.2 | 1402.2 | 1428.1 | 1443.8 | 1417.3 | 1388.1 |
| 37.5° | 2173.8 | 2156.7 | 2121.2 | 1839.1 | 1623.1 | 1501.6 | 1499.1 | 1517.3 | 1539.8 | 1546.1 | 1553.3 |
| 40° | 2533.6 | 2515.3 | 2525.2 | 2145.6 | 1893.7 | 1674.4 | 1637.3 | 1624.2 | 1684.7 | 1724.8 | 1783.2 |
| 42.5° | 2927.2 | 2919.0 | 2922.5 | 2487.1 | 2201.9 | 1932.4 | 1879.8 | 1812.5 | 1885.5 | 1956.9 | 2079.4 |
| 45° | 3291.7 | 3299.0 | 3295.4 | 2852.7 | 2545.1 | 2247.3 | 2191.5 | 2061.3 | 2132.7 | 2255.1 | 2454.9 |
| 47.5° | 3610.8 | 3580.6 | 3627.5 | 3252.1 | 2929.4 | 2599.9 | 2531.0 | 2356.3 | 2428.7 | 2580.0 | 2917.9 |
| 50° | 3998.3 | 3994.1 | 3925.2 | 3785.0 | 3393.9 | 2953.8 | 2863.6 | 2661.4 | 2774.0 | 2984.1 | 3501.4 |
| 52.5° | 4405.5 | 4329.9 | 4266.8 | 4199.5 | 3886.6 | 3316.8 | 3206.2 | 2965.3 | 3179.6 | 3444.0 | 4212.6 |
| 55° | 4488.9 | 4455.1 | 4533.2 | 4646.5 | 4361.7 | 3693.8 | 3565.0 | 3346.5 | 3636.3 | 3969.6 | 5032.8 |
| 57.5° | 4667.2 | 4666.8 | 4828.4 | 5030.1 | 4850.8 | 4093.7 | 3964.0 | 3806.8 | 4150.0 | 4571.8 | 5903.5 |
| 60° | 4787.6 | 4821.7 | 5122.0 | 5513.5 | 5331.0 | 4555.7 | 4436.3 | 4338.3 | 4734.0 | 5245.1 | 6714.9 |
| 62.5° | 4850.8 | 4896.8 | 5306.6 | 5709.5 | 6009.9 | 5324.8 | 5205.4 | 5064.0 | 5506.8 | 5983.3 | 7189.3 |
| 65° | 4588.5 | 4678.7 | 5277.8 | 5879.0 | 6604.3 | 6571.6 | 6517.8 | 6269.6 | 6472.9 | 6566.8 | 7017.9 |
| 67.5° | 3862.7 | 3955.0 | 4652.7 | 5721.0 | 7028.8 | 7773.9 | 7785.4 | 7361.5 | 7067.3 | 6616.8 | 5900.4 |
| 70° | 2752.0 | 2824.5 | 3401.8 | 4796.6 | 6705.5 | 8559.7 | 8598.8 | 7864.7 | 6949.0 | 5868.1 | 4122.4 |
| 72.5° | 1306.7 | 1351.1 | 1897.5 | 3121.8 | 5321.1 | 7842.7 | 7918.3 | 7222.3 | 5908.8 | 4344.6 | 2248.8 |
| 75° | 480.2 | 493.8 | 641.4 | 1328.1 | 3086.2 | 5783.6 | 5872.8 | 5177.2 | 3916.9 | 2162.8 | 856.8 |
| 77.5° | 287.8 | 296.7 | 359.9 | 560.5 | 1213.9 | 3305.9 | 3437.8 | 2815.6 | 1711.8 | 805.2 | 421.3 |
| 80° | 201.3 | 207.5 | 258.2 | 348.8 | 573.6 | 1259.8 | 1377.1 | 1149.2 | 682.1 | 509.3 | 306.6 |
| 82.5° | 136.2 | 139.1 | 181.5 | 235.6 | 381.2 | 450.1 | 485.4 | 511.0 | 459.9 | 379.1 | 194.6 |
| 85° | 89.1 | 92.3 | 123.1 | 155.3 | 242.5 | 232.5 | 237.8 | 300.8 | 335.7 | 257.5 | 107.9 |
| 87.5° | 51.2 | 53.2 | 74.0 | 83.0 | 118.8 | 98.5 | 99.6 | 158.6 | 214.9 | 173.6 | 65.7 |
| 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° | 1243.7 | 1243.7 | 1243.7 | 1243.7 | 1243.7 | 1243.7 | 1243.7 | 1243.7 | 1243.7 | 1243.7 | 1243.7 |
| 2.5° | 1238.9 | 1232.1 | 1217.1 | 1207.6 | 1198.8 | 1196.6 | 1192.9 | 1192.5 | 1192.1 | 1192.1 | 1190.4 |
| 5° | 1211.3 | 1199.7 | 1176.3 | 1163.2 | 1152.3 | 1151.3 | 1150.8 | 1153.5 | 1154.4 | 1155.5 | 1154.0 |
| 7.5° | 1193.6 | 1177.9 | 1148.8 | 1129.9 | 1117.0 | 1113.8 | 1119.0 | 1131.0 | 1138.8 | 1141.9 | 1140.4 |
| 10° | 1182.6 | 1163.2 | 1129.3 | 1109.0 | 1098.1 | 1096.6 | 1103.4 | 1117.4 | 1133.7 | 1139.8 | 1139.3 |
| 12.5° | 1170.1 | 1148.2 | 1112.2 | 1090.8 | 1084.6 | 1087.7 | 1096.6 | 1109.5 | 1126.3 | 1136.1 | 1136.7 |
| 15° | 1157.6 | 1132.0 | 1095.0 | 1076.2 | 1073.7 | 1077.7 | 1086.1 | 1096.0 | 1109.0 | 1119.0 | 1120.0 |
| 17.5° | 1142.5 | 1115.9 | 1078.9 | 1059.6 | 1057.5 | 1059.6 | 1060.1 | 1065.3 | 1073.7 | 1082.9 | 1085.6 |
| 20° | 1126.3 | 1099.2 | 1060.5 | 1041.2 | 1032.0 | 1023.6 | 1014.1 | 1015.3 | 1017.8 | 1027.2 | 1029.3 |
| 22.5° | 1114.7 | 1087.7 | 1046.4 | 1019.8 | 994.9 | 969.8 | 951.0 | 948.5 | 949.5 | 957.4 | 960.0 |
| 25° | 1115.9 | 1087.2 | 1042.8 | 996.9 | 942.2 | 902.1 | 877.0 | 872.9 | 872.3 | 878.1 | 881.7 |
| 27.5° | 1136.1 | 1107.5 | 1056.3 | 973.6 | 884.9 | 825.5 | 798.9 | 795.7 | 791.5 | 793.1 | 797.2 |
| 30° | 1181.5 | 1155.0 | 1089.3 | 949.5 | 822.8 | 750.4 | 722.6 | 719.5 | 713.9 | 711.2 | 714.3 |
| 32.5° | 1255.7 | 1233.7 | 1137.3 | 926.6 | 760.8 | 686.1 | 658.1 | 651.2 | 647.6 | 644.4 | 647.0 |
| 35° | 1378.7 | 1369.2 | 1201.4 | 901.5 | 706.0 | 636.7 | 611.0 | 600.6 | 595.4 | 601.1 | 605.4 |
| 37.5° | 1571.6 | 1576.7 | 1285.4 | 862.5 | 663.8 | 603.8 | 582.5 | 570.5 | 562.6 | 567.3 | 572.0 |
| 40° | 1844.8 | 1848.4 | 1378.1 | 807.1 | 627.2 | 584.4 | 561.6 | 550.7 | 539.7 | 531.3 | 530.8 |
| 42.5° | 2203.5 | 2166.5 | 1469.4 | 747.2 | 585.1 | 572.5 | 547.0 | 533.5 | 516.7 | 493.8 | 489.0 |
| 45° | 2629.0 | 2499.2 | 1538.7 | 678.4 | 537.5 | 557.9 | 530.8 | 512.0 | 486.0 | 460.9 | 458.3 |
| 47.5° | 3119.2 | 2856.4 | 1572.7 | 607.0 | 493.3 | 536.6 | 511.0 | 481.3 | 448.4 | 435.9 | 434.3 |
| 50° | 3717.7 | 3280.3 | 1588.8 | 537.5 | 454.7 | 508.4 | 482.3 | 447.4 | 419.8 | 417.2 | 415.6 |
| 52.5° | 4399.3 | 3790.2 | 1594.0 | 480.8 | 422.9 | 471.9 | 458.9 | 425.0 | 403.1 | 405.1 | 405.1 |
| 55° | 5112.6 | 4316.9 | 1523.0 | 439.6 | 393.6 | 434.3 | 443.3 | 416.1 | 397.9 | 406.3 | 409.3 |
| 57.5° | 5767.5 | 4783.6 | 1299.8 | 407.7 | 366.0 | 405.7 | 437.5 | 424.4 | 412.0 | 445.7 | 448.0 |
| 60° | 6270.1 | 5059.3 | 970.9 | 379.1 | 345.7 | 395.8 | 452.6 | 456.2 | 459.4 | 540.2 | 551.1 |
| 62.5° | 6375.5 | 4967.5 | 667.4 | 356.6 | 336.3 | 404.1 | 480.2 | 480.8 | 477.1 | 533.5 | 540.2 |
| 65° | 5892.2 | 4387.2 | 485.4 | 344.1 | 328.5 | 419.1 | 503.7 | 492.7 | 468.7 | 511.6 | 499.0 |
| 67.5° | 4679.2 | 3305.4 | 404.1 | 334.8 | 317.0 | 418.3 | 528.7 | 503.7 | 464.1 | 501.1 | 480.8 |
| 70° | 3037.3 | 1998.5 | 359.9 | 327.0 | 303.4 | 398.4 | 543.4 | 502.6 | 450.5 | 466.1 | 442.1 |
| 72.5° | 1481.8 | 893.8 | 330.0 | 315.5 | 289.4 | 370.7 | 542.8 | 493.3 | 436.4 | 435.4 | 422.4 |
| 75° | 579.9 | 409.3 | 303.0 | 298.2 | 265.4 | 339.5 | 528.3 | 479.8 | 419.8 | 403.1 | 398.4 |
| 77.5° | 339.5 | 291.9 | 268.6 | 272.7 | 236.8 | 308.2 | 506.9 | 456.2 | 396.8 | 377.0 | 371.8 |
| 80° | 247.2 | 218.5 | 228.9 | 235.6 | 202.3 | 276.9 | 478.2 | 427.6 | 371.3 | 381.2 | 373.9 |
| 82.5° | 158.6 | 140.8 | 185.6 | 192.3 | 168.4 | 245.1 | 446.8 | 397.3 | 335.2 | 304.5 | 297.2 |
| 85° | 80.8 | 89.1 | 138.2 | 146.6 | 129.8 | 201.3 | 408.8 | 357.2 | 294.6 | 253.4 | 257.5 |
| 87.5° | 45.4 | 61.1 | 88.2 | 98.5 | 91.7 | 154.9 | 331.7 | 294.6 | 240.3 | 195.6 | 172.0 |
| 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)