

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: P200590

Luminaire Tested: **GPC-AF-02-LED-E1-SL2-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-8030-800-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6783 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 86
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

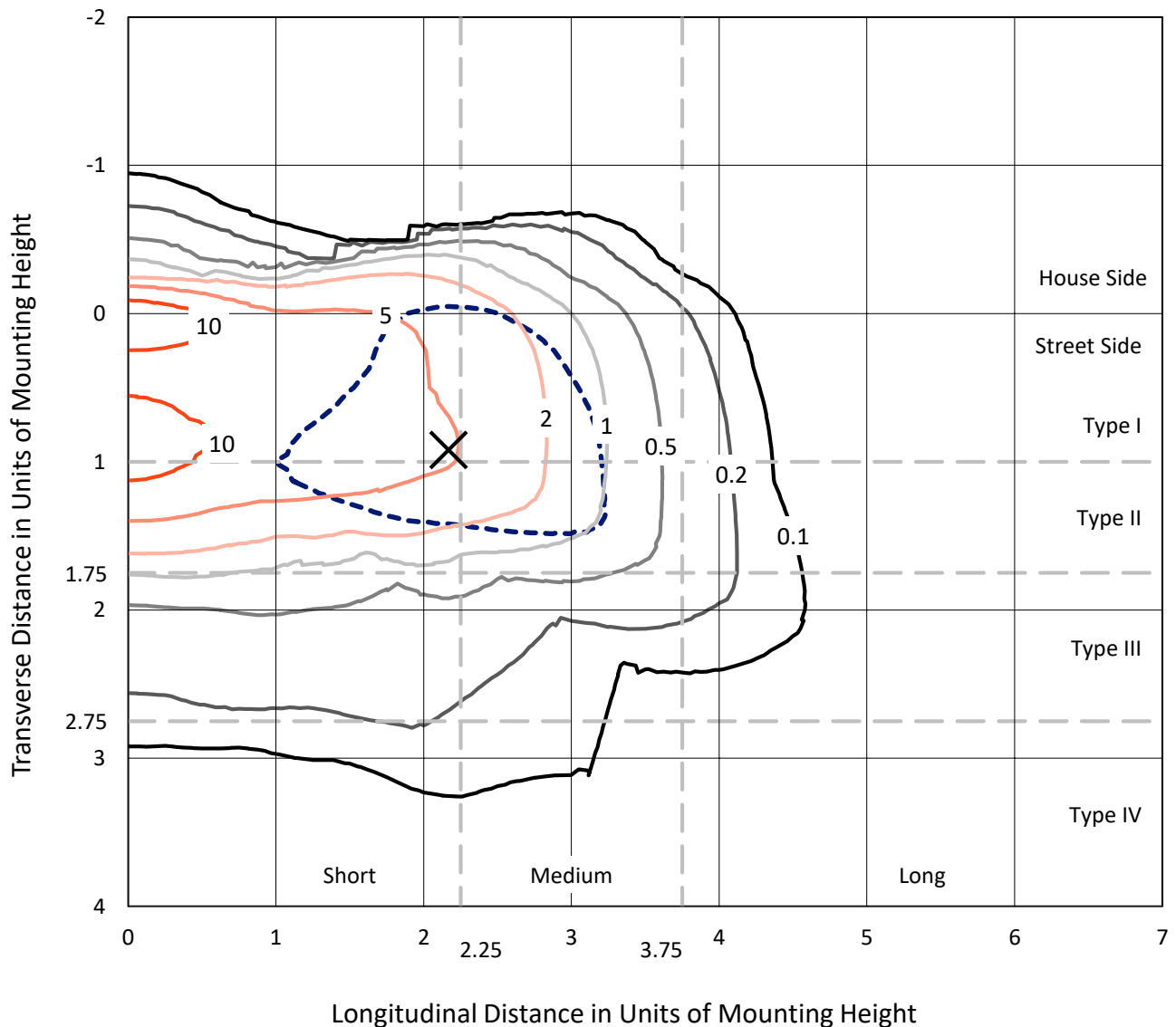


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Iso-Footcandle Lines of Horizontal Illumination

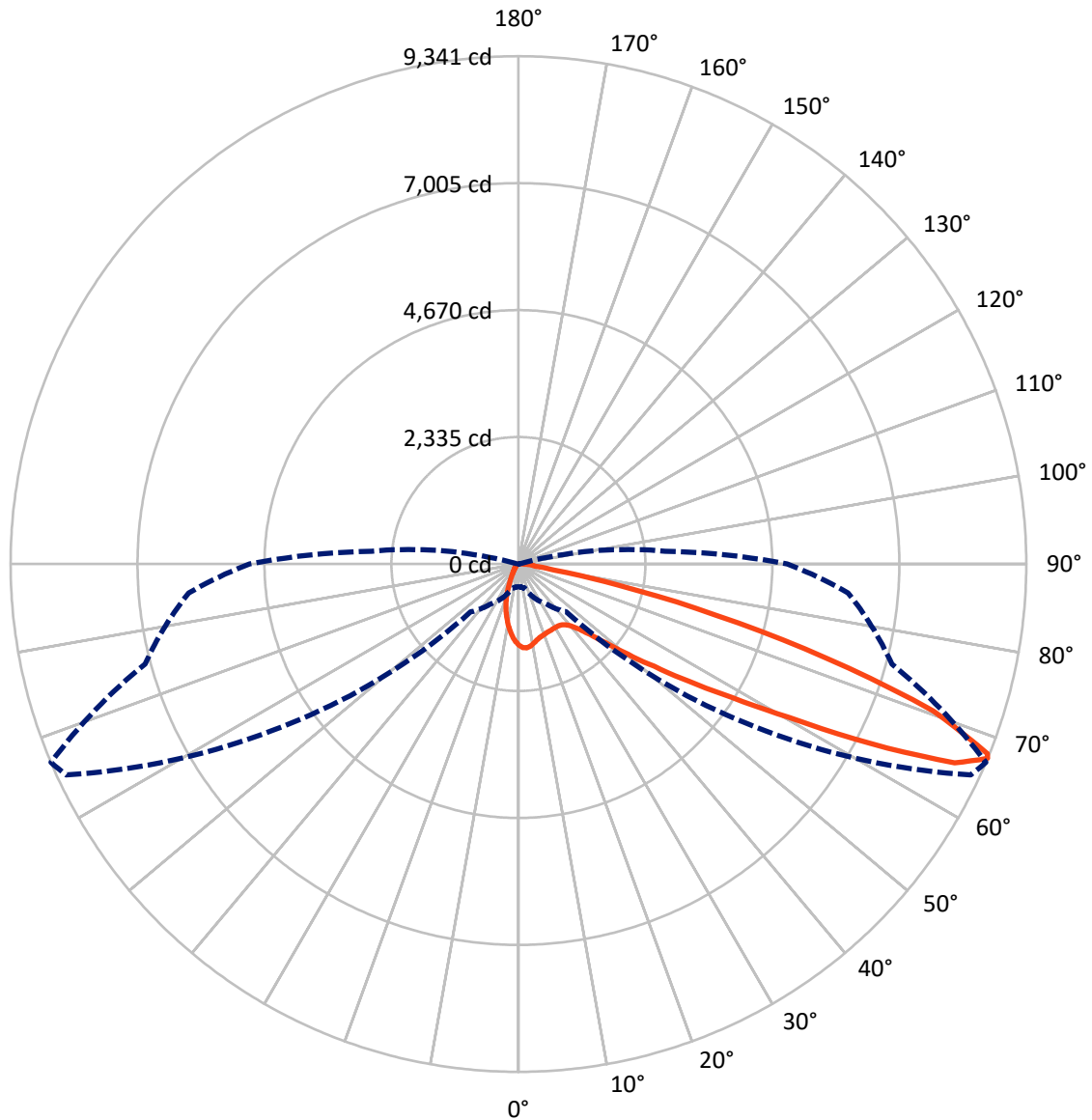
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 704.3 | 0.0 | 704.3 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 6078.7 | 0.0 | 6078.7 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 6783.0 | 0.0 | 6783.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 121.7 | 1.8 |
| 10°-20° | 259.1 | 3.8 |
| 20°-30° | 376.7 | 5.6 |
| 30°-40° | 587.6 | 8.7 |
| 40°-50° | 1040.9 | 15.3 |
| 50°-60° | 1647.1 | 24.3 |
| 60°-70° | 1886.6 | 27.8 |
| 70°-80° | 782.5 | 11.5 |
| 80°-90° | 80.8 | 1.2 |
| 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° | 6783.0 | 100.0 |
| 0°-180° | 6783.0 | 100.0 |



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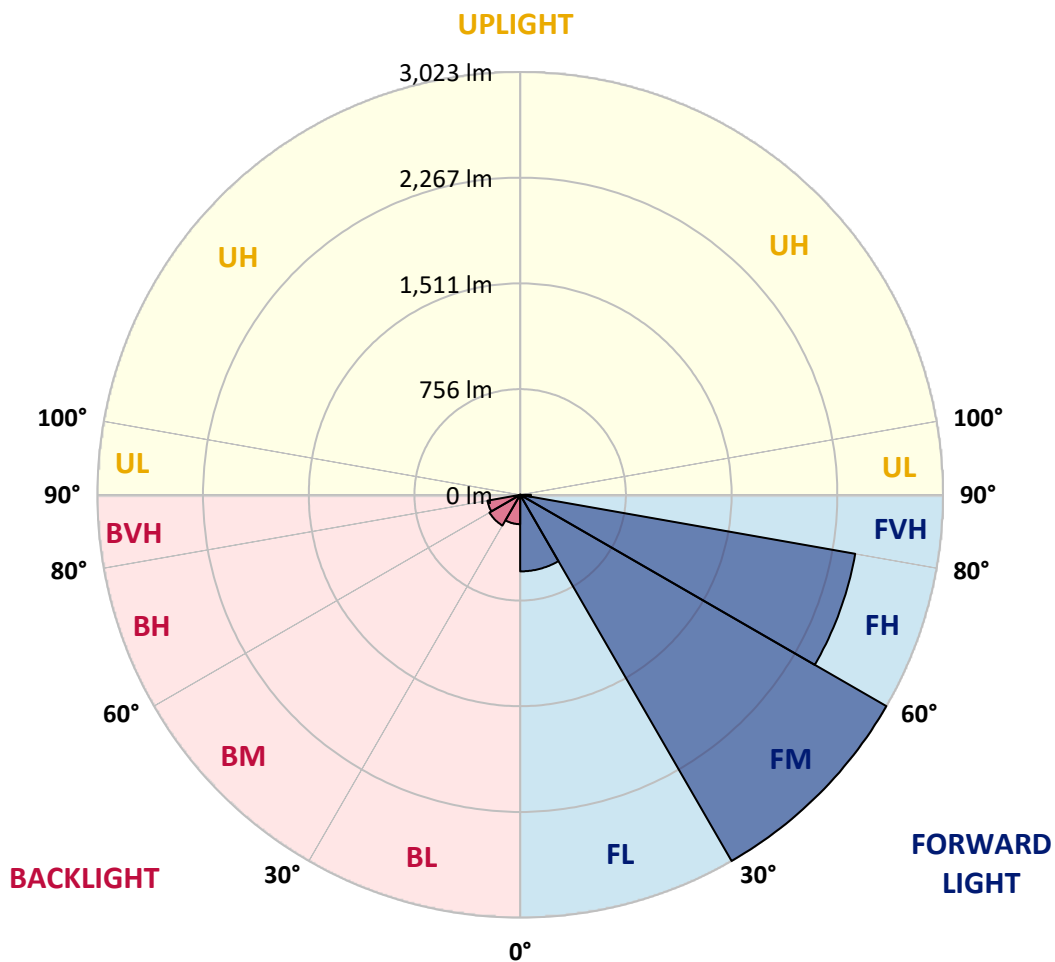
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 547.3 | 8.1 | | | |
| FM (30°-60°) | 3022.5 | 44.6 | | | |
| FH (60°-80°) | 2431.7 | 35.9 | | | G2/5000 |
| FVH (80°-90°) | 77.2 | 1.1 | | | G1/100 |
| BL (0°-30°) | 210.2 | 3.1 | B1/500 | | |
| BM (30°-60°) | 253.1 | 3.7 | B1/1000 | | |
| BH (60°-80°) | 237.4 | 3.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.6 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 |
| 2.5° | 1546.5 | 1549.7 | 1549.3 | 1551.7 | 1557.2 | 1557.6 | 1552.1 | 1541.4 | 1539.0 | 1525.2 | 1501.0 |
| 5° | 1426.3 | 1435.4 | 1440.9 | 1463.5 | 1488.8 | 1519.2 | 1542.2 | 1550.5 | 1549.3 | 1539.4 | 1503.0 |
| 7.5° | 1289.0 | 1298.1 | 1304.4 | 1330.9 | 1364.6 | 1416.8 | 1476.5 | 1525.6 | 1529.9 | 1540.6 | 1501.4 |
| 10° | 1197.6 | 1199.2 | 1207.9 | 1233.2 | 1268.4 | 1321.8 | 1393.0 | 1478.9 | 1491.9 | 1531.1 | 1497.5 |
| 12.5° | 1122.4 | 1123.6 | 1135.1 | 1162.4 | 1200.0 | 1253.8 | 1328.5 | 1427.9 | 1448.0 | 1519.2 | 1496.7 |
| 15° | 1069.0 | 1073.4 | 1083.6 | 1112.1 | 1152.1 | 1205.5 | 1282.3 | 1390.3 | 1414.4 | 1514.9 | 1503.8 |
| 17.5° | 1051.2 | 1056.0 | 1059.1 | 1079.7 | 1116.1 | 1168.3 | 1247.0 | 1365.7 | 1393.0 | 1517.3 | 1517.7 |
| 20° | 1069.8 | 1073.4 | 1066.2 | 1071.4 | 1093.9 | 1140.6 | 1217.4 | 1344.8 | 1377.2 | 1520.0 | 1535.5 |
| 22.5° | 1139.0 | 1140.6 | 1121.2 | 1098.7 | 1094.7 | 1120.4 | 1194.0 | 1328.2 | 1363.0 | 1527.6 | 1556.4 |
| 25° | 1257.7 | 1255.0 | 1223.3 | 1174.6 | 1128.8 | 1116.9 | 1180.2 | 1317.9 | 1355.8 | 1535.5 | 1578.2 |
| 27.5° | 1400.9 | 1404.9 | 1361.4 | 1290.6 | 1203.1 | 1140.6 | 1178.2 | 1313.5 | 1352.7 | 1541.0 | 1597.2 |
| 30° | 1575.0 | 1580.6 | 1530.7 | 1441.7 | 1316.3 | 1199.2 | 1196.4 | 1312.7 | 1350.7 | 1537.4 | 1598.8 |
| 32.5° | 1752.7 | 1759.4 | 1720.2 | 1628.4 | 1467.4 | 1297.3 | 1237.6 | 1321.4 | 1354.7 | 1525.2 | 1589.7 |
| 35° | 1938.6 | 1948.1 | 1922.0 | 1843.3 | 1672.4 | 1438.9 | 1310.0 | 1347.9 | 1373.3 | 1524.0 | 1580.6 |
| 37.5° | 2195.4 | 2204.1 | 2155.0 | 2071.6 | 1920.4 | 1628.8 | 1426.3 | 1397.8 | 1417.2 | 1543.0 | 1582.9 |
| 40° | 2578.8 | 2577.6 | 2451.0 | 2323.2 | 2193.0 | 1870.2 | 1589.7 | 1488.0 | 1497.9 | 1600.4 | 1612.2 |
| 42.5° | 2996.6 | 2994.6 | 2807.4 | 2613.2 | 2495.7 | 2167.3 | 1804.5 | 1643.9 | 1637.1 | 1706.0 | 1688.2 |
| 45° | 3318.6 | 3318.2 | 3165.5 | 2946.7 | 2860.1 | 2508.3 | 2082.2 | 1860.7 | 1850.4 | 1877.7 | 1828.2 |
| 47.5° | 3455.9 | 3458.3 | 3381.5 | 3227.6 | 3264.0 | 2969.6 | 2432.4 | 2174.8 | 2159.4 | 2148.3 | 2073.1 |
| 50° | 3349.1 | 3353.8 | 3360.1 | 3330.1 | 3560.3 | 3589.6 | 2902.0 | 2617.5 | 2610.0 | 2560.6 | 2443.1 |
| 52.5° | 3000.1 | 3024.2 | 3098.6 | 3194.0 | 3663.2 | 4184.6 | 3638.3 | 3167.5 | 3127.1 | 3074.5 | 2945.1 |
| 55° | 2412.2 | 2438.7 | 2579.9 | 2811.4 | 3510.1 | 4575.5 | 4670.1 | 3876.4 | 3809.2 | 3652.1 | 3465.4 |
| 57.5° | 1596.4 | 1637.5 | 1842.5 | 2136.8 | 3065.4 | 4638.4 | 5699.5 | 4860.4 | 4626.2 | 4196.1 | 3985.6 |
| 60° | 879.5 | 919.1 | 1141.4 | 1408.1 | 2214.0 | 4327.5 | 6391.9 | 6141.5 | 5727.6 | 4804.2 | 4617.5 |
| 62.5° | 541.6 | 563.0 | 727.2 | 975.2 | 1327.8 | 3415.5 | 6535.1 | 7751.3 | 7272.2 | 5587.2 | 5380.7 |
| 65° | 431.2 | 440.3 | 520.7 | 797.2 | 951.9 | 2031.6 | 6072.6 | 8978.6 | 8818.7 | 6535.1 | 6063.9 |
| 67° | 418.6 | 422.1 | 460.1 | 684.5 | 897.3 | 1245.5 | 5087.5 | 9178.4 | 9340.6 | 7108.8 | 6085.3 |
| 67.5° | 421.4 | 425.3 | 461.3 | 653.2 | 895.7 | 1144.6 | 4748.0 | 9099.6 | 9304.6 | 7154.3 | 5990.7 |
| 70° | 406.3 | 418.6 | 528.2 | 652.8 | 851.8 | 951.1 | 2843.4 | 7884.2 | 8097.5 | 6647.5 | 5083.1 |
| 72.5° | 144.0 | 144.8 | 228.3 | 528.2 | 926.2 | 961.4 | 1427.9 | 5779.9 | 5937.7 | 5085.1 | 3664.8 |
| 75° | 85.5 | 72.8 | 76.0 | 150.3 | 885.0 | 933.7 | 823.7 | 3693.3 | 3752.2 | 2913.9 | 1855.9 |
| 77.5° | 58.9 | 51.4 | 53.0 | 66.5 | 337.1 | 920.6 | 654.4 | 1926.0 | 1863.1 | 1021.9 | 395.2 |
| 80° | 33.6 | 29.7 | 31.7 | 58.2 | 122.6 | 858.9 | 617.2 | 781.0 | 665.9 | 173.3 | 109.2 |
| 82.5° | 17.8 | 15.0 | 18.2 | 47.9 | 85.5 | 535.3 | 618.4 | 377.4 | 299.1 | 58.6 | 74.4 |
| 85° | 6.3 | 5.1 | 8.7 | 32.8 | 57.0 | 164.2 | 573.3 | 317.3 | 249.3 | 28.5 | 56.6 |
| 87.5° | 1.2 | 1.2 | 3.6 | 13.5 | 22.9 | 50.2 | 339.1 | 188.3 | 126.2 | 17.0 | 38.8 |
| 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° | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 |
| 2.5° | 1491.2 | 1474.1 | 1451.2 | 1423.1 | 1389.9 | 1360.6 | 1338.8 | 1316.3 | 1311.5 | 1303.6 | 1302.4 |
| 5° | 1481.3 | 1452.0 | 1395.0 | 1329.7 | 1260.1 | 1197.2 | 1146.2 | 1100.7 | 1080.5 | 1063.1 | 1061.1 |
| 7.5° | 1466.6 | 1422.7 | 1325.8 | 1220.5 | 1111.7 | 1012.8 | 929.0 | 869.6 | 815.0 | 788.9 | 784.9 |
| 10° | 1449.6 | 1386.7 | 1247.8 | 1101.8 | 951.5 | 811.8 | 687.2 | 582.8 | 519.5 | 481.9 | 477.1 |
| 12.5° | 1433.8 | 1351.5 | 1168.3 | 978.8 | 779.0 | 592.3 | 432.0 | 332.3 | 265.9 | 239.0 | 235.8 |
| 15° | 1426.3 | 1323.0 | 1093.9 | 853.0 | 598.6 | 377.0 | 236.2 | 182.8 | 161.0 | 154.7 | 154.3 |
| 17.5° | 1425.5 | 1298.9 | 1021.1 | 722.8 | 419.4 | 219.2 | 153.9 | 140.5 | 136.1 | 134.5 | 134.5 |
| 20° | 1425.1 | 1275.9 | 948.3 | 587.9 | 266.3 | 146.0 | 128.2 | 125.0 | 121.9 | 119.9 | 119.9 |
| 22.5° | 1429.4 | 1255.4 | 872.4 | 450.2 | 167.7 | 118.3 | 112.8 | 109.6 | 105.6 | 102.9 | 102.5 |
| 25° | 1433.8 | 1239.5 | 794.8 | 320.5 | 121.5 | 102.9 | 97.3 | 93.0 | 87.4 | 83.9 | 83.5 |
| 27.5° | 1434.6 | 1219.7 | 711.8 | 214.4 | 101.7 | 89.8 | 82.7 | 76.0 | 69.6 | 66.1 | 65.7 |
| 30° | 1422.7 | 1186.5 | 619.6 | 144.8 | 89.8 | 77.9 | 68.4 | 61.3 | 55.4 | 52.6 | 52.6 |
| 32.5° | 1399.4 | 1145.4 | 518.3 | 109.2 | 79.9 | 66.9 | 56.6 | 49.9 | 45.9 | 44.7 | 44.3 |
| 35° | 1378.4 | 1101.1 | 414.2 | 92.6 | 71.6 | 56.6 | 46.3 | 41.9 | 39.6 | 39.2 | 38.8 |
| 37.5° | 1366.1 | 1065.4 | 316.5 | 83.9 | 63.7 | 47.5 | 39.2 | 36.0 | 34.8 | 34.0 | 34.4 |
| 40° | 1375.6 | 1035.8 | 233.8 | 76.8 | 55.8 | 39.6 | 33.2 | 31.7 | 30.5 | 30.1 | 30.1 |
| 42.5° | 1417.2 | 1030.6 | 173.7 | 70.4 | 48.3 | 32.8 | 28.9 | 27.7 | 26.9 | 26.5 | 26.9 |
| 45° | 1526.4 | 1062.3 | 134.9 | 64.5 | 40.8 | 27.7 | 24.5 | 24.1 | 23.7 | 23.7 | 23.7 |
| 47.5° | 1690.6 | 1127.6 | 112.4 | 57.8 | 34.0 | 23.7 | 21.4 | 21.0 | 20.6 | 21.0 | 21.0 |
| 50° | 1968.7 | 1247.0 | 100.5 | 51.0 | 28.1 | 20.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.6 |
| 52.5° | 2391.6 | 1482.1 | 92.6 | 44.3 | 22.9 | 17.0 | 15.4 | 15.4 | 15.8 | 15.8 | 16.2 |
| 55° | 2862.8 | 1793.8 | 85.5 | 37.6 | 19.4 | 14.2 | 12.7 | 13.1 | 13.5 | 13.8 | 13.8 |
| 57.5° | 3374.0 | 2139.2 | 79.5 | 30.9 | 16.6 | 11.5 | 10.7 | 11.1 | 11.5 | 12.3 | 12.3 |
| 60° | 3990.8 | 2513.1 | 70.8 | 24.1 | 13.8 | 9.1 | 8.3 | 9.1 | 10.3 | 11.1 | 11.5 |
| 62.5° | 4668.1 | 2874.7 | 59.7 | 19.0 | 11.5 | 7.1 | 6.7 | 8.3 | 9.9 | 10.7 | 11.1 |
| 65° | 5131.0 | 2988.2 | 45.9 | 15.4 | 8.7 | 5.1 | 5.5 | 7.5 | 9.5 | 10.7 | 10.7 |
| 67° | 4943.5 | 2709.3 | 37.6 | 13.1 | 7.1 | 4.0 | 5.1 | 7.5 | 9.5 | 10.3 | 10.7 |
| 67.5° | 4813.3 | 2600.1 | 36.0 | 12.7 | 6.7 | 4.0 | 5.1 | 7.5 | 9.5 | 10.7 | 10.7 |
| 70° | 3916.4 | 1953.3 | 30.1 | 9.5 | 5.5 | 3.6 | 4.4 | 7.1 | 9.1 | 10.3 | 10.3 |
| 72.5° | 2721.2 | 1204.3 | 26.9 | 6.7 | 4.7 | 3.2 | 4.0 | 6.7 | 8.7 | 9.9 | 10.3 |
| 75° | 1293.7 | 436.0 | 22.9 | 5.1 | 4.4 | 2.8 | 3.6 | 6.7 | 8.7 | 9.9 | 9.9 |
| 77.5° | 263.9 | 101.3 | 18.6 | 4.4 | 3.6 | 2.8 | 3.2 | 6.3 | 8.3 | 9.5 | 9.5 |
| 80° | 86.6 | 39.2 | 13.8 | 4.0 | 3.6 | 2.8 | 3.2 | 5.9 | 8.3 | 9.1 | 9.5 |
| 82.5° | 62.5 | 19.8 | 9.1 | 4.0 | 3.6 | 2.8 | 2.8 | 5.9 | 7.9 | 9.1 | 9.1 |
| 85° | 47.9 | 13.8 | 5.9 | 4.0 | 3.6 | 2.8 | 2.8 | 5.5 | 7.5 | 8.7 | 8.7 |
| 87.5° | 31.7 | 5.5 | 4.7 | 4.0 | 3.6 | 2.8 | 2.8 | 5.5 | 7.1 | 8.3 | 8.7 |
| 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)