

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: P199942

Luminaire Tested: **GPC-AF-02-LED-E1-RW-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
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-RW-7030-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9921.8 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

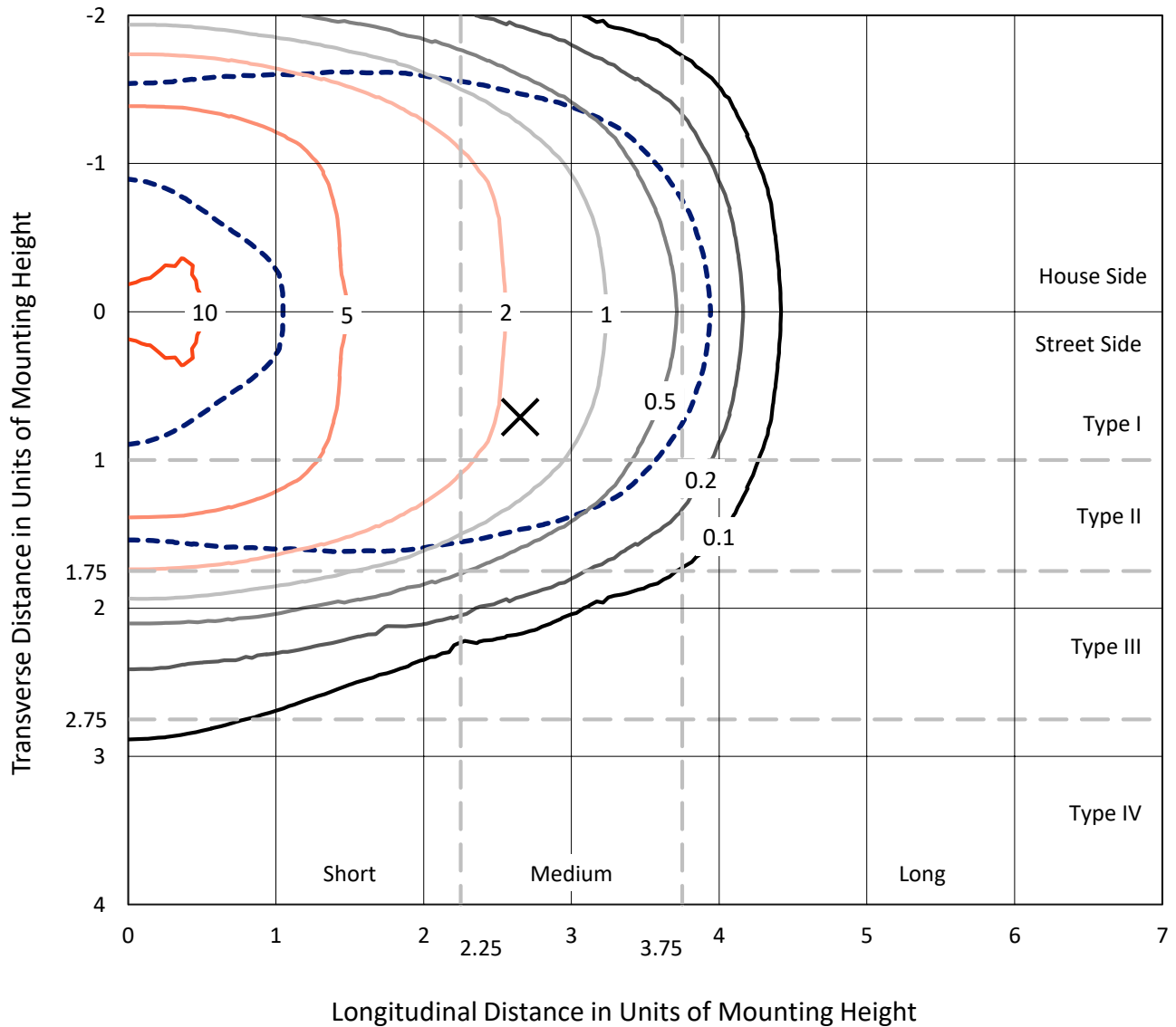
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

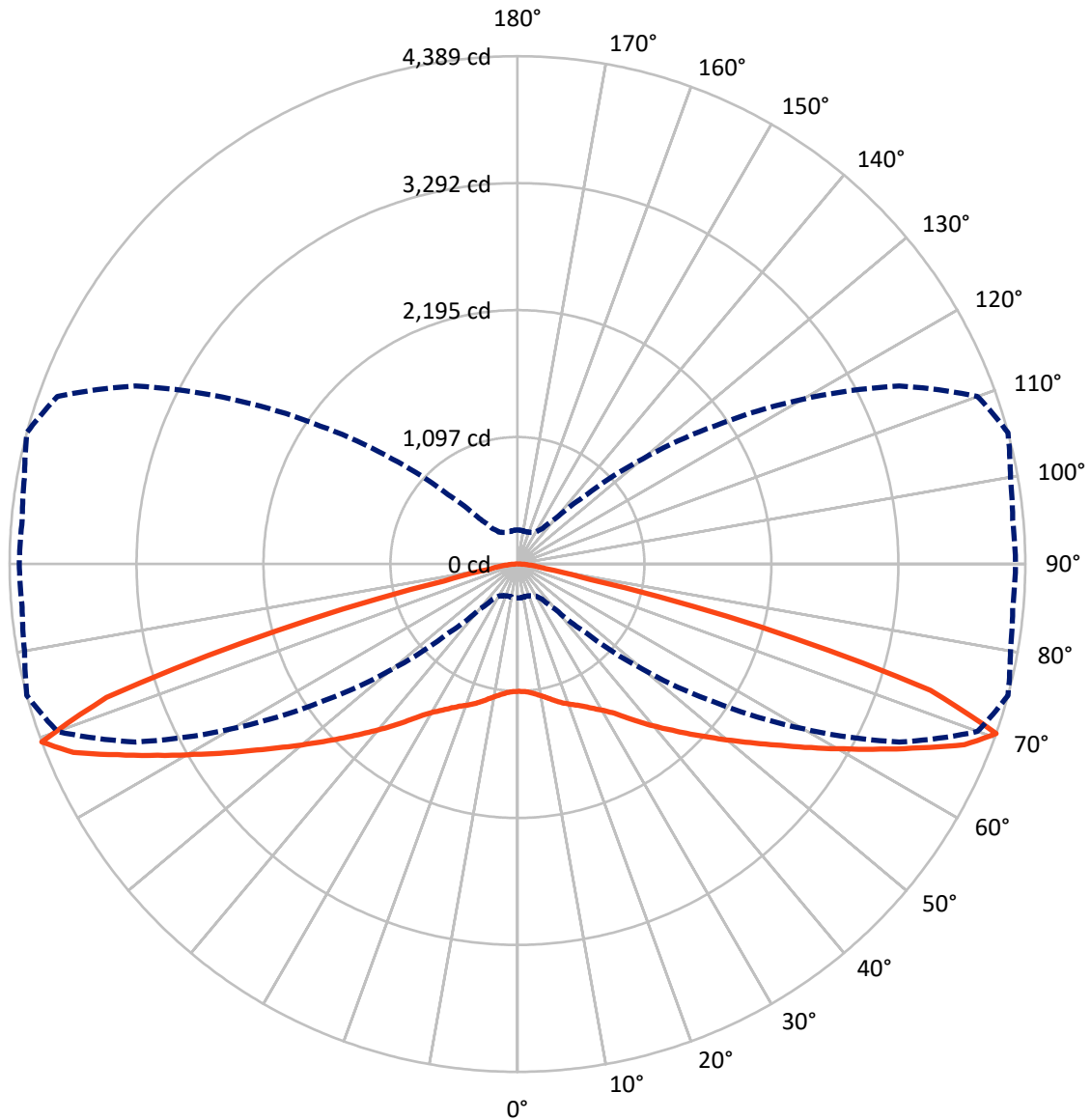
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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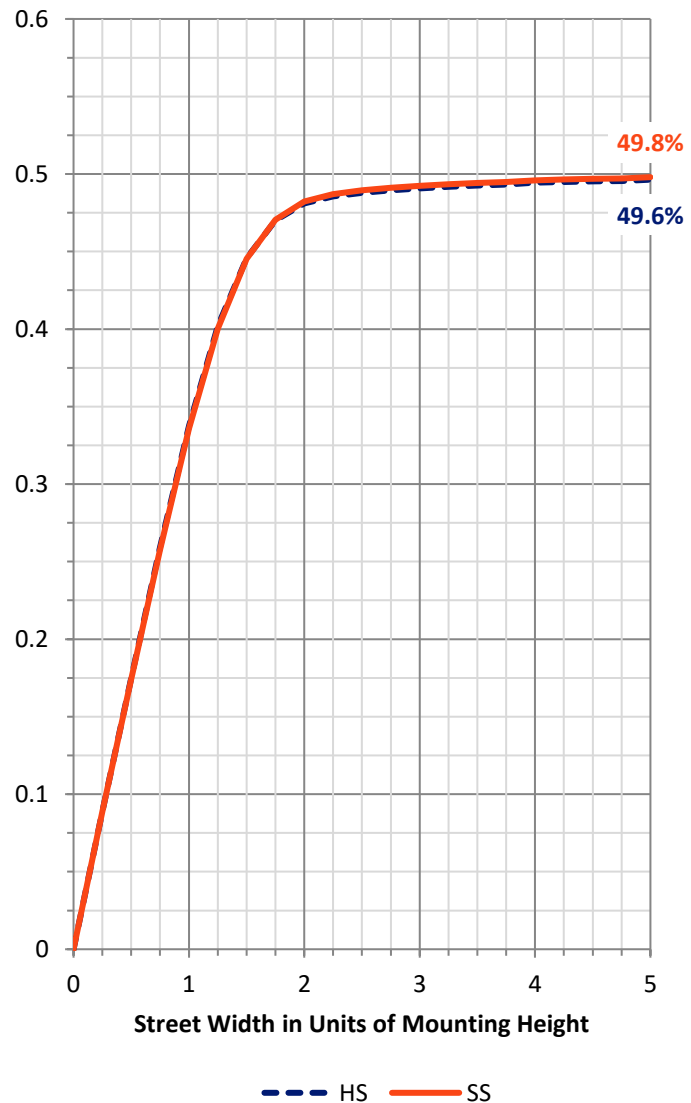
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4960.9 | 0.0 | 4960.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4960.9 | 0.0 | 4960.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 9921.8 | 0.0 | 9921.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 105.6 | 1.1 |
| 10°-20° | 328.0 | 3.3 |
| 20°-30° | 617.3 | 6.2 |
| 30°-40° | 1093.1 | 11.0 |
| 40°-50° | 1828.0 | 18.4 |
| 50°-60° | 2547.3 | 25.7 |
| 60°-70° | 2362.2 | 23.8 |
| 70°-80° | 941.4 | 9.5 |
| 80°-90° | 99.0 | 1.0 |
| 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° | 9921.8 | 100.0 |
| 0°-180° | 9921.8 | 100.0 |



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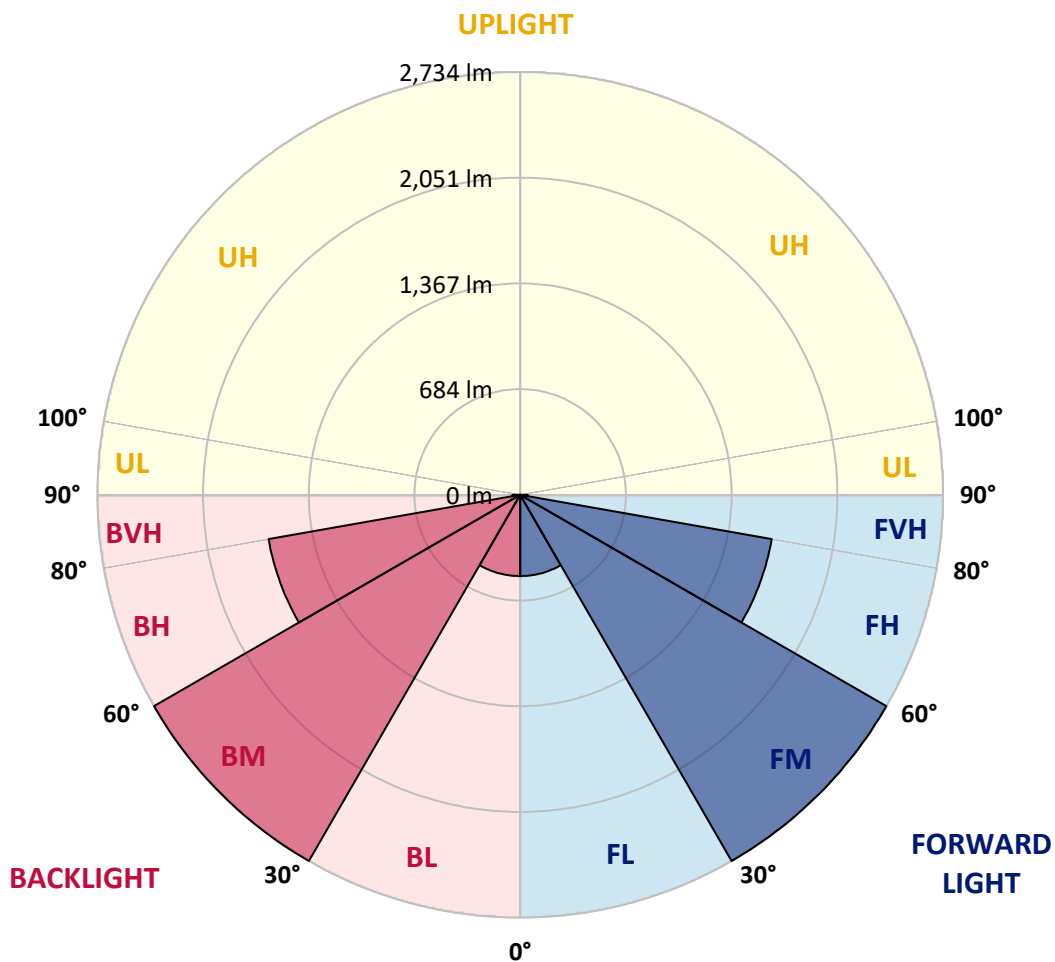
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 525.4 | 5.3 | | | |
| FM | (30°-60°) | 2734.2 | 27.6 | | | |
| FH | (60°-80°) | 1651.8 | 16.6 | | | G1/1800 |
| FVH | (80°-90°) | 49.5 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 525.4 | 5.3 | B2/1000 | | |
| BM | (30°-60°) | 2734.2 | 27.6 | B3/5000 | | |
| BH | (60°-80°) | 1651.8 | 16.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 49.5 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1100.6 | 1100.6 | 1100.6 | 1100.6 | 1100.6 | 1100.6 | 1100.6 | 1100.6 | 1100.6 | 1100.6 | 1100.6 |
| 2.5° | 1098.7 | 1097.7 | 1098.7 | 1098.2 | 1099.1 | 1099.1 | 1100.1 | 1102.0 | 1102.0 | 1103.4 | 1102.9 |
| 5° | 1087.9 | 1087.4 | 1088.9 | 1090.3 | 1091.6 | 1094.4 | 1097.3 | 1101.6 | 1104.8 | 1107.2 | 1109.4 |
| 7.5° | 1066.8 | 1066.8 | 1068.7 | 1072.0 | 1075.2 | 1081.3 | 1087.9 | 1096.3 | 1104.8 | 1111.8 | 1117.9 |
| 10° | 1049.4 | 1050.4 | 1052.7 | 1058.4 | 1063.9 | 1073.4 | 1082.3 | 1094.4 | 1106.1 | 1117.9 | 1127.3 |
| 12.5° | 1039.2 | 1040.5 | 1044.7 | 1053.1 | 1062.5 | 1075.2 | 1088.9 | 1104.3 | 1117.4 | 1131.5 | 1140.8 |
| 15° | 1042.5 | 1043.3 | 1049.4 | 1059.9 | 1072.0 | 1087.9 | 1106.1 | 1124.5 | 1139.9 | 1155.0 | 1167.7 |
| 17.5° | 1060.7 | 1062.1 | 1069.1 | 1080.9 | 1093.5 | 1112.3 | 1131.9 | 1152.5 | 1171.8 | 1188.7 | 1204.1 |
| 20° | 1093.5 | 1094.9 | 1103.8 | 1116.5 | 1131.5 | 1150.7 | 1170.3 | 1192.0 | 1213.6 | 1231.4 | 1248.8 |
| 22.5° | 1139.9 | 1142.3 | 1150.7 | 1163.4 | 1180.3 | 1200.9 | 1224.4 | 1247.3 | 1268.0 | 1284.4 | 1299.8 |
| 25° | 1200.9 | 1206.1 | 1214.1 | 1228.1 | 1245.9 | 1264.6 | 1290.1 | 1313.4 | 1333.2 | 1348.6 | 1359.8 |
| 27.5° | 1287.2 | 1294.1 | 1300.3 | 1314.0 | 1331.4 | 1349.2 | 1374.4 | 1395.0 | 1413.9 | 1428.8 | 1437.2 |
| 30° | 1401.6 | 1408.7 | 1414.7 | 1427.9 | 1443.9 | 1460.7 | 1484.7 | 1502.9 | 1514.7 | 1526.4 | 1526.0 |
| 32.5° | 1540.4 | 1547.8 | 1550.3 | 1564.4 | 1580.8 | 1599.0 | 1620.7 | 1630.9 | 1640.3 | 1641.7 | 1633.2 |
| 35° | 1695.6 | 1699.4 | 1708.7 | 1727.5 | 1746.3 | 1761.3 | 1781.9 | 1787.1 | 1787.1 | 1780.1 | 1761.3 |
| 37.5° | 1865.8 | 1868.3 | 1881.3 | 1902.4 | 1921.7 | 1937.1 | 1951.2 | 1961.5 | 1956.4 | 1941.3 | 1910.0 |
| 40° | 2052.4 | 2056.7 | 2075.5 | 2094.2 | 2115.8 | 2130.3 | 2145.3 | 2147.2 | 2142.0 | 2119.9 | 2077.3 |
| 42.5° | 2230.6 | 2234.5 | 2253.2 | 2282.8 | 2310.9 | 2331.0 | 2345.0 | 2347.9 | 2331.5 | 2311.3 | 2258.3 |
| 45° | 2384.0 | 2393.9 | 2418.2 | 2453.0 | 2493.8 | 2522.4 | 2541.6 | 2549.6 | 2535.1 | 2508.7 | 2447.3 |
| 47.5° | 2505.5 | 2515.2 | 2550.0 | 2591.3 | 2641.9 | 2688.4 | 2720.2 | 2737.1 | 2733.3 | 2713.7 | 2646.6 |
| 50° | 2594.6 | 2603.9 | 2641.5 | 2692.0 | 2751.1 | 2808.8 | 2863.2 | 2903.6 | 2917.7 | 2908.7 | 2847.3 |
| 52.5° | 2604.8 | 2620.4 | 2664.4 | 2732.5 | 2809.3 | 2888.0 | 2965.6 | 3033.9 | 3080.3 | 3087.3 | 3041.9 |
| 55° | 2460.9 | 2476.4 | 2537.3 | 2638.2 | 2752.6 | 2881.0 | 3004.8 | 3120.2 | 3211.6 | 3258.5 | 3234.6 |
| 57.5° | 2121.4 | 2149.0 | 2213.3 | 2331.5 | 2499.9 | 2692.0 | 2889.5 | 3094.4 | 3280.6 | 3404.8 | 3428.8 |
| 60° | 1625.8 | 1658.5 | 1723.3 | 1849.0 | 2036.5 | 2265.8 | 2529.4 | 2832.3 | 3161.0 | 3440.5 | 3607.4 |
| 62.5° | 1042.9 | 1073.8 | 1141.9 | 1251.1 | 1404.0 | 1652.4 | 1935.2 | 2294.9 | 2736.6 | 3178.0 | 3575.5 |
| 65° | 536.0 | 552.9 | 588.5 | 654.6 | 773.8 | 959.4 | 1213.1 | 1571.8 | 2076.9 | 2621.2 | 3196.2 |
| 67.5° | 339.5 | 342.7 | 350.7 | 360.1 | 390.6 | 454.8 | 573.1 | 796.7 | 1212.1 | 1780.1 | 2453.0 |
| 70° | 293.6 | 293.6 | 289.7 | 288.3 | 292.2 | 301.0 | 319.4 | 371.4 | 511.6 | 845.0 | 1414.7 |
| 72.5° | 268.7 | 265.8 | 259.3 | 254.1 | 253.3 | 253.3 | 257.0 | 265.0 | 287.5 | 344.1 | 553.8 |
| 75° | 247.6 | 239.6 | 230.7 | 224.6 | 222.3 | 219.9 | 219.5 | 220.8 | 225.5 | 234.5 | 264.5 |
| 77.5° | 221.8 | 211.5 | 201.1 | 195.0 | 192.3 | 189.0 | 186.2 | 182.9 | 180.5 | 183.3 | 196.4 |
| 80° | 190.8 | 179.0 | 171.2 | 167.3 | 164.6 | 159.9 | 153.8 | 148.1 | 143.0 | 142.0 | 150.0 |
| 82.5° | 153.8 | 140.2 | 140.7 | 142.0 | 136.9 | 130.3 | 123.8 | 117.7 | 108.8 | 104.2 | 108.8 |
| 85° | 124.2 | 117.2 | 113.9 | 122.8 | 115.4 | 105.6 | 95.2 | 84.4 | 70.4 | 59.1 | 64.3 |
| 87.5° | 48.3 | 48.3 | 72.2 | 111.1 | 99.9 | 81.6 | 69.8 | 59.5 | 37.0 | 28.6 | 29.1 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1100.6 | 1100.6 | 1100.6 | 1100.6 | 1100.6 | 1100.6 | 1100.6 | 1100.6 |
| 2.5° | 1102.4 | 1103.4 | 1102.9 | 1102.4 | 1102.4 | 1102.0 | 1102.4 | 1102.4 |
| 5° | 1110.8 | 1113.3 | 1113.3 | 1114.1 | 1114.1 | 1114.7 | 1115.1 | 1114.7 |
| 7.5° | 1123.5 | 1127.8 | 1130.7 | 1133.9 | 1134.3 | 1134.7 | 1135.8 | 1134.7 |
| 10° | 1136.2 | 1144.6 | 1150.7 | 1156.8 | 1159.7 | 1160.6 | 1161.5 | 1161.5 |
| 12.5° | 1152.1 | 1163.8 | 1174.6 | 1185.5 | 1190.6 | 1193.4 | 1193.4 | 1195.3 |
| 15° | 1178.4 | 1190.2 | 1202.8 | 1217.3 | 1226.2 | 1231.0 | 1232.3 | 1232.3 |
| 17.5° | 1215.4 | 1225.8 | 1236.6 | 1250.6 | 1261.8 | 1268.0 | 1269.4 | 1268.9 |
| 20° | 1258.5 | 1268.4 | 1274.5 | 1283.5 | 1293.3 | 1300.3 | 1302.2 | 1302.2 |
| 22.5° | 1307.9 | 1313.4 | 1314.4 | 1317.2 | 1325.2 | 1334.6 | 1338.8 | 1339.7 |
| 25° | 1362.3 | 1363.7 | 1359.8 | 1359.8 | 1365.0 | 1373.9 | 1378.2 | 1378.7 |
| 27.5° | 1432.6 | 1425.5 | 1416.1 | 1412.8 | 1416.1 | 1426.5 | 1431.7 | 1433.5 |
| 30° | 1520.3 | 1503.4 | 1481.8 | 1470.1 | 1468.2 | 1481.8 | 1491.2 | 1492.6 |
| 32.5° | 1620.7 | 1596.2 | 1567.7 | 1543.8 | 1537.6 | 1546.0 | 1557.3 | 1556.8 |
| 35° | 1739.7 | 1710.7 | 1675.9 | 1645.5 | 1631.4 | 1639.9 | 1655.8 | 1657.7 |
| 37.5° | 1877.1 | 1839.2 | 1799.3 | 1760.8 | 1738.8 | 1741.1 | 1758.0 | 1763.7 |
| 40° | 2030.5 | 1981.2 | 1931.0 | 1879.5 | 1848.0 | 1841.9 | 1862.6 | 1865.8 |
| 42.5° | 2194.6 | 2131.2 | 2068.0 | 2004.2 | 1963.8 | 1954.4 | 1978.3 | 1976.9 |
| 45° | 2369.5 | 2288.8 | 2214.6 | 2144.4 | 2096.5 | 2082.5 | 2102.1 | 2102.1 |
| 47.5° | 2557.5 | 2458.2 | 2370.0 | 2290.2 | 2238.1 | 2218.0 | 2236.7 | 2238.1 |
| 50° | 2756.8 | 2651.2 | 2547.7 | 2459.0 | 2396.7 | 2370.9 | 2395.3 | 2399.0 |
| 52.5° | 2955.1 | 2852.4 | 2747.9 | 2646.6 | 2571.1 | 2539.7 | 2567.8 | 2580.0 |
| 55° | 3156.3 | 3055.6 | 2955.6 | 2856.7 | 2767.1 | 2730.1 | 2760.1 | 2775.5 |
| 57.5° | 3368.8 | 3275.4 | 3180.2 | 3080.3 | 2994.0 | 2936.4 | 2968.2 | 2988.9 |
| 60° | 3617.8 | 3538.1 | 3439.1 | 3328.9 | 3241.6 | 3183.0 | 3201.3 | 3219.7 |
| 62.5° | 3814.7 | 3845.6 | 3761.7 | 3634.2 | 3522.1 | 3447.0 | 3464.8 | 3484.1 |
| 65° | 3719.5 | 4036.9 | 4111.5 | 3982.6 | 3827.4 | 3710.6 | 3703.2 | 3712.9 |
| 67.5° | 3109.0 | 3725.6 | 4175.4 | 4298.2 | 4168.2 | 4006.0 | 3976.0 | 3990.5 |
| 70° | 2079.6 | 2847.8 | 3641.2 | 4232.0 | 4389.2 | 4326.3 | 4296.7 | 4305.7 |
| 72.5° | 998.8 | 1658.5 | 2470.3 | 3255.7 | 3734.1 | 3953.4 | 4023.8 | 4058.1 |
| 75° | 365.3 | 658.4 | 1190.6 | 1794.1 | 2165.9 | 2507.3 | 2730.1 | 2821.1 |
| 77.5° | 220.3 | 265.8 | 380.3 | 572.5 | 648.6 | 725.9 | 695.9 | 710.8 |
| 80° | 163.3 | 184.3 | 208.6 | 234.5 | 242.9 | 242.9 | 233.5 | 226.0 |
| 82.5° | 114.4 | 128.1 | 139.8 | 153.8 | 157.6 | 150.6 | 123.8 | 98.5 |
| 85° | 73.6 | 79.8 | 84.9 | 93.8 | 91.4 | 87.2 | 58.6 | 52.0 |
| 87.5° | 33.8 | 38.5 | 40.3 | 44.6 | 42.7 | 40.8 | 29.1 | 24.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)