

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: P200044

Luminaire Tested: **GPC-AF-02-LED-E1-T4FT-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-7030-600
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7962.8 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

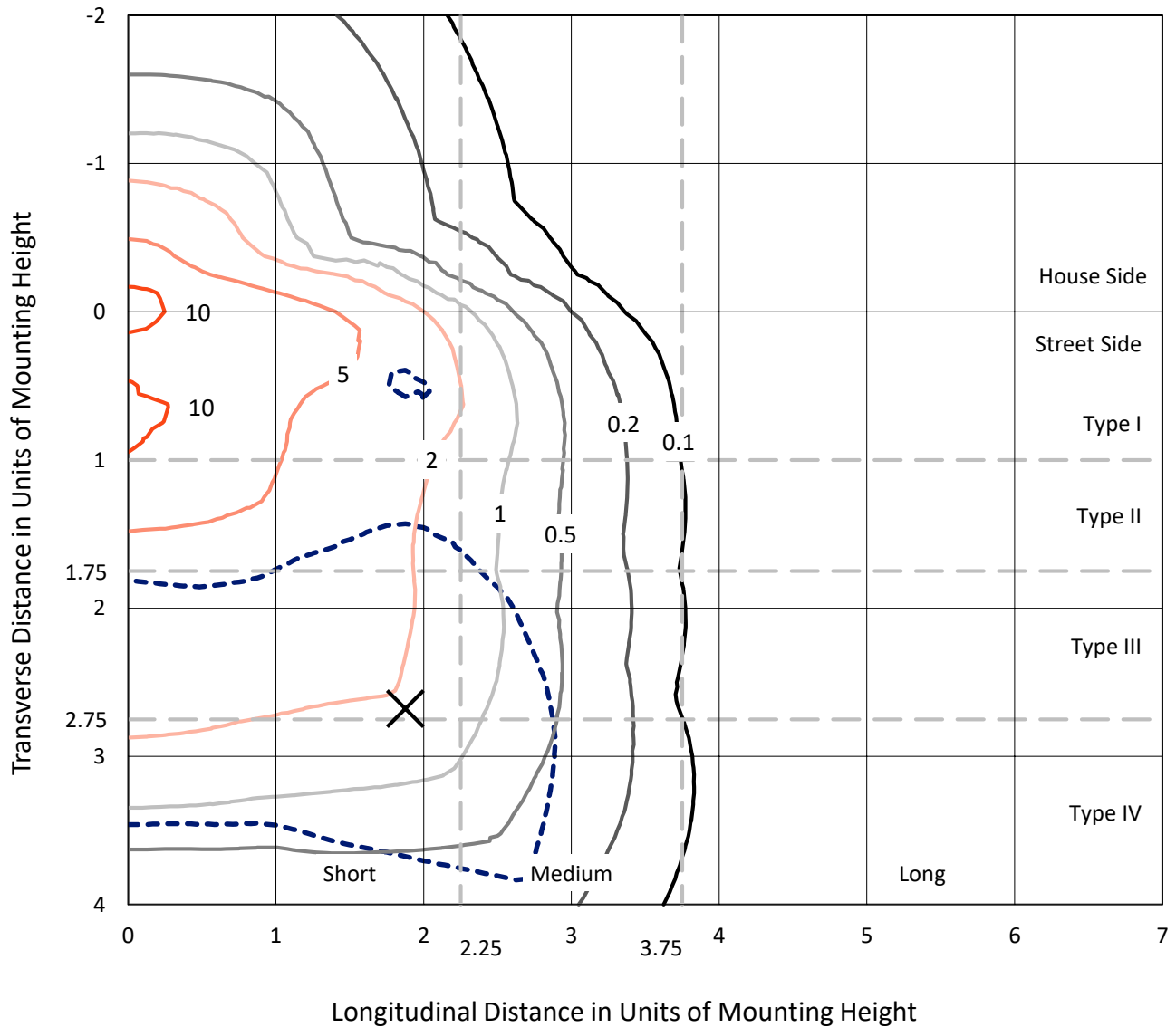


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Iso-Footcandle Lines of Horizontal Illumination

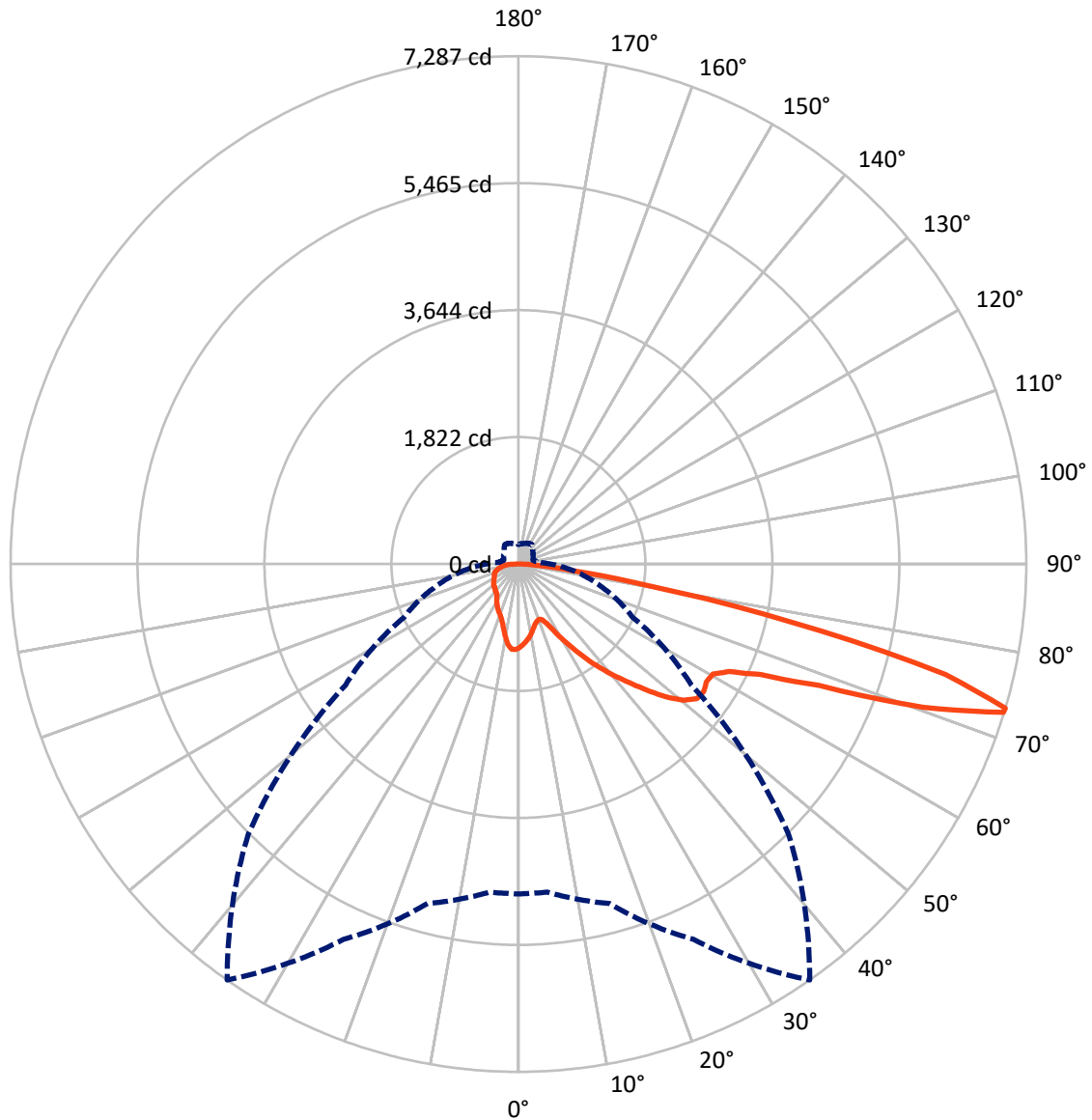
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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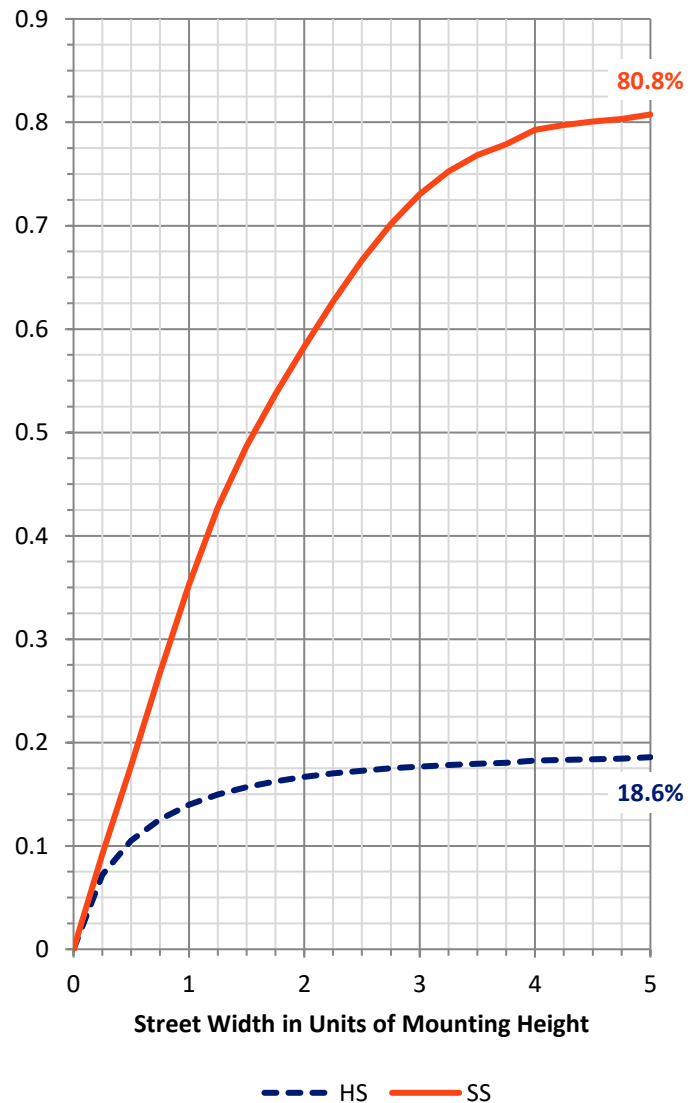
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1518.7 | 0.0 | 1518.7 |
| | % Fixture | 19.1 | 0.0 | 19.1 |
| Street Side | Lumens | 6444.1 | 0.0 | 6444.1 |
| | % Fixture | 80.9 | 0.0 | 80.9 |
| Total | Lumens | 7962.8 | 0.0 | 7962.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 108.8 | 1.4 |
| 10°-20° | 271.5 | 3.4 |
| 20°-30° | 439.0 | 5.5 |
| 30°-40° | 736.1 | 9.2 |
| 40°-50° | 1134.7 | 14.3 |
| 50°-60° | 1522.4 | 19.1 |
| 60°-70° | 2028.1 | 25.5 |
| 70°-80° | 1546.8 | 19.4 |
| 80°-90° | 175.3 | 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° | 7962.8 | 100.0 |
| 0°-180° | 7962.8 | 100.0 |



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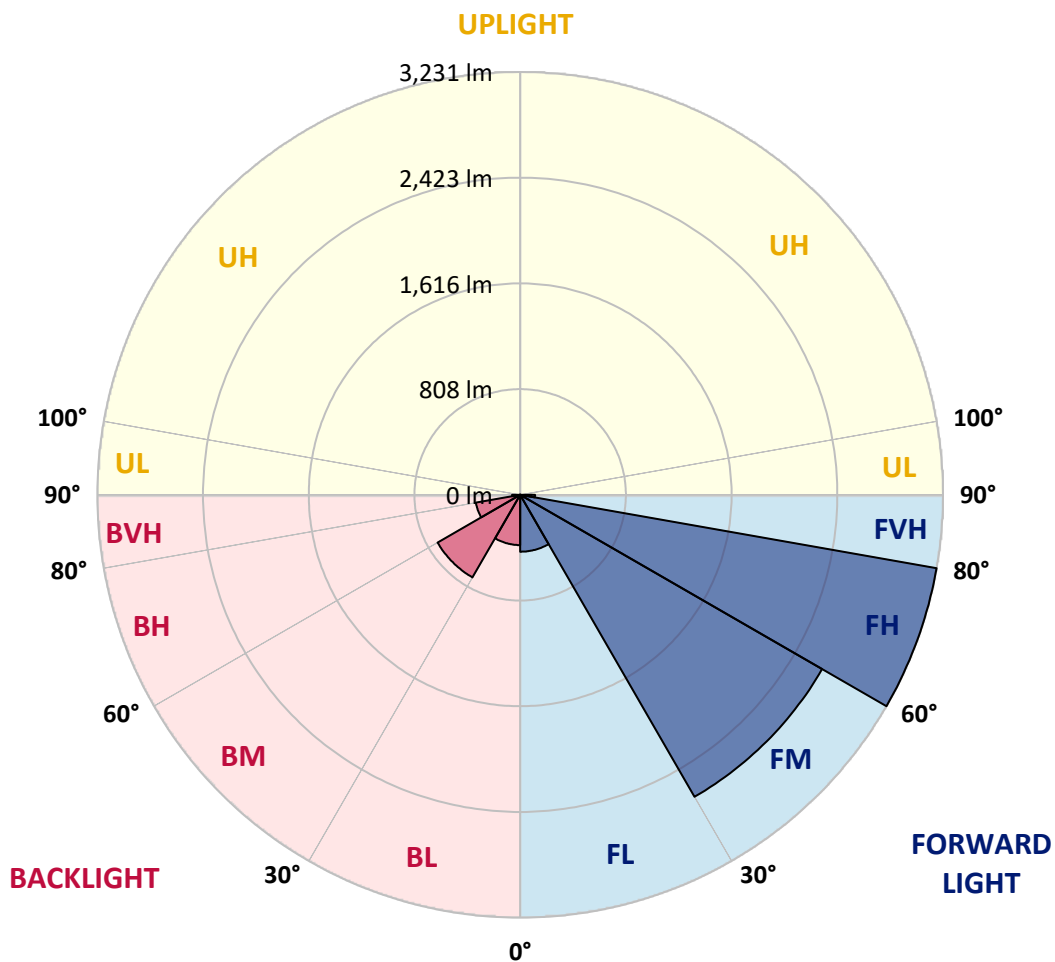
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 435.0 | 5.5 | | | |
| FM | (30°-60°) | 2664.4 | 33.5 | | | |
| FH | (60°-80°) | 3231.3 | 40.6 | | | G2/5000 |
| FVH | (80°-90°) | 113.3 | 1.4 | | | G2/225 |
| BL | (0°-30°) | 384.3 | 4.8 | B1/500 | | |
| BM | (30°-60°) | 728.8 | 9.2 | B1/1000 | | |
| BH | (60°-80°) | 343.6 | 4.3 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 62.0 | 0.8 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 |
| 2.5° | 1154.5 | 1156.7 | 1154.0 | 1157.5 | 1163.2 | 1169.3 | 1173.6 | 1179.7 | 1186.5 | 1196.1 | 1198.3 |
| 5° | 1100.1 | 1103.5 | 1103.5 | 1109.6 | 1120.8 | 1130.8 | 1139.9 | 1149.9 | 1164.3 | 1180.8 | 1187.3 |
| 7.5° | 1040.4 | 1042.4 | 1045.8 | 1055.0 | 1071.1 | 1085.2 | 1098.2 | 1114.2 | 1134.1 | 1156.0 | 1167.4 |
| 10° | 968.6 | 971.2 | 976.6 | 989.6 | 1011.4 | 1030.9 | 1049.7 | 1071.9 | 1097.1 | 1124.2 | 1138.7 |
| 12.5° | 917.8 | 917.0 | 919.3 | 928.8 | 948.0 | 971.7 | 998.7 | 1027.0 | 1058.0 | 1089.8 | 1107.4 |
| 15° | 900.6 | 896.4 | 887.5 | 885.2 | 895.6 | 919.3 | 950.5 | 985.4 | 1022.4 | 1060.7 | 1082.5 |
| 17.5° | 911.2 | 904.0 | 879.9 | 862.3 | 860.8 | 878.8 | 912.0 | 951.0 | 993.8 | 1040.4 | 1067.6 |
| 20° | 978.5 | 961.3 | 902.1 | 861.2 | 847.0 | 855.8 | 884.9 | 926.2 | 976.6 | 1038.5 | 1073.4 |
| 22.5° | 1139.5 | 1114.2 | 988.5 | 912.5 | 864.6 | 853.9 | 875.7 | 919.6 | 978.5 | 1062.2 | 1106.6 |
| 25° | 1373.9 | 1338.0 | 1136.9 | 1040.0 | 941.4 | 884.5 | 889.5 | 934.5 | 1005.6 | 1117.2 | 1170.8 |
| 27.5° | 1559.0 | 1535.6 | 1330.7 | 1220.2 | 1081.3 | 967.1 | 934.1 | 972.0 | 1061.1 | 1207.6 | 1262.3 |
| 30° | 1669.2 | 1655.0 | 1538.0 | 1424.4 | 1260.0 | 1098.6 | 1019.8 | 1042.4 | 1147.9 | 1332.6 | 1377.8 |
| 32.5° | 1796.9 | 1788.5 | 1731.1 | 1626.7 | 1452.7 | 1271.4 | 1155.5 | 1147.5 | 1264.1 | 1482.8 | 1503.5 |
| 35° | 1929.1 | 1926.5 | 1892.8 | 1817.8 | 1659.5 | 1499.4 | 1335.7 | 1281.4 | 1390.8 | 1638.9 | 1625.9 |
| 37.5° | 2052.2 | 2047.6 | 2028.2 | 1984.5 | 1876.0 | 1744.1 | 1519.2 | 1418.6 | 1527.2 | 1788.0 | 1730.3 |
| 40° | 2279.0 | 2243.1 | 2176.1 | 2143.2 | 2094.7 | 1950.2 | 1664.9 | 1546.8 | 1668.7 | 1930.3 | 1820.6 |
| 42.5° | 2555.5 | 2497.0 | 2372.3 | 2327.2 | 2320.3 | 2112.6 | 1764.3 | 1671.0 | 1811.4 | 2071.3 | 1909.2 |
| 45° | 2773.1 | 2718.1 | 2610.5 | 2553.6 | 2578.8 | 2259.9 | 1864.2 | 1803.8 | 1958.2 | 2219.4 | 2000.6 |
| 47.5° | 3005.1 | 2918.8 | 2776.5 | 2793.8 | 2848.7 | 2399.2 | 1965.8 | 1946.4 | 2119.2 | 2384.9 | 2114.1 |
| 50° | 3013.6 | 2947.4 | 2885.1 | 2987.9 | 3073.6 | 2527.1 | 2093.2 | 2095.8 | 2316.1 | 2593.4 | 2265.3 |
| 52.5° | 2838.8 | 2824.7 | 2923.7 | 3085.5 | 3209.0 | 2628.6 | 2238.0 | 2250.3 | 2568.1 | 2832.6 | 2431.2 |
| 55° | 2777.7 | 2761.6 | 2875.9 | 3051.4 | 3227.3 | 2712.3 | 2395.3 | 2417.5 | 2872.9 | 3085.1 | 2592.9 |
| 57.5° | 2926.7 | 2891.2 | 2898.8 | 3035.3 | 3182.6 | 2804.0 | 2566.6 | 2611.3 | 3204.0 | 3305.7 | 2696.9 |
| 60° | 3343.6 | 3267.5 | 3122.9 | 3119.5 | 3206.6 | 2941.7 | 2764.7 | 2819.3 | 3548.2 | 3411.3 | 2656.4 |
| 62.5° | 3928.2 | 3852.2 | 3581.4 | 3405.2 | 3392.2 | 3168.8 | 3007.8 | 3022.3 | 3746.9 | 3268.3 | 2409.0 |
| 65° | 4561.1 | 4493.1 | 4190.5 | 3941.6 | 3821.6 | 3545.1 | 3290.5 | 3113.1 | 3682.0 | 2874.7 | 1976.2 |
| 67.5° | 5329.3 | 5256.3 | 4996.2 | 4766.4 | 4650.9 | 4152.3 | 3488.8 | 3026.2 | 3269.4 | 2227.0 | 1420.6 |
| 70° | 5866.5 | 5792.0 | 5689.4 | 5875.8 | 6158.3 | 5028.3 | 3514.6 | 2673.2 | 2442.0 | 1480.3 | 855.1 |
| 72.5° | 5165.7 | 5130.9 | 5317.8 | 6102.1 | 7279.1 | 5559.8 | 3176.8 | 1946.4 | 1418.3 | 785.8 | 494.8 |
| 73° | 4732.8 | 4725.1 | 5044.1 | 5943.3 | 7287.1 | 5478.0 | 3028.8 | 1809.2 | 1216.4 | 695.2 | 452.4 |
| 75° | 2137.1 | 2198.8 | 2897.7 | 4539.7 | 6331.1 | 4514.0 | 2131.7 | 1037.8 | 687.1 | 480.3 | 341.4 |
| 77.5° | 513.5 | 535.0 | 906.7 | 2155.9 | 3998.3 | 2690.1 | 965.9 | 513.2 | 439.3 | 339.1 | 249.3 |
| 80° | 218.7 | 225.9 | 349.1 | 796.5 | 1882.4 | 1083.3 | 445.1 | 343.7 | 304.0 | 236.6 | 174.7 |
| 82.5° | 121.6 | 129.3 | 198.1 | 361.3 | 759.8 | 369.4 | 271.5 | 239.4 | 200.0 | 142.6 | 113.5 |
| 85° | 68.9 | 72.9 | 115.9 | 201.9 | 322.0 | 148.4 | 162.5 | 159.1 | 112.7 | 73.4 | 55.8 |
| 87.5° | 32.4 | 35.2 | 55.8 | 93.6 | 126.2 | 58.1 | 82.6 | 91.0 | 70.7 | 44.7 | 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1201.9 |
| 2.5° | 1201.1 | 1208.0 | 1215.9 | 1220.2 | 1224.0 | 1228.6 | 1233.2 | 1233.2 | 1234.0 | 1234.3 |
| 5° | 1192.7 | 1206.8 | 1219.5 | 1224.8 | 1225.9 | 1225.9 | 1224.8 | 1218.7 | 1213.4 | 1215.6 |
| 7.5° | 1175.1 | 1195.8 | 1206.4 | 1204.5 | 1190.0 | 1173.1 | 1159.0 | 1141.8 | 1133.0 | 1131.5 |
| 10° | 1149.9 | 1173.6 | 1175.4 | 1156.3 | 1120.4 | 1084.4 | 1054.6 | 1025.5 | 1011.7 | 1008.4 |
| 12.5° | 1121.9 | 1143.7 | 1131.5 | 1092.0 | 1034.3 | 981.9 | 944.1 | 914.7 | 901.7 | 898.2 |
| 15° | 1099.3 | 1114.2 | 1083.3 | 1021.3 | 948.7 | 893.3 | 861.9 | 840.1 | 830.9 | 828.3 |
| 17.5° | 1087.4 | 1090.5 | 1033.9 | 950.2 | 873.0 | 826.8 | 807.2 | 796.9 | 793.4 | 791.6 |
| 20° | 1093.2 | 1071.9 | 986.9 | 884.1 | 811.0 | 778.6 | 774.0 | 771.3 | 770.5 | 769.4 |
| 22.5° | 1121.9 | 1066.1 | 943.7 | 821.4 | 756.7 | 742.6 | 746.5 | 746.0 | 745.2 | 744.5 |
| 25° | 1173.1 | 1071.1 | 901.7 | 761.7 | 711.3 | 708.2 | 715.1 | 715.1 | 712.1 | 712.1 |
| 27.5° | 1240.8 | 1081.3 | 854.6 | 705.2 | 670.0 | 670.3 | 675.7 | 674.1 | 670.8 | 668.4 |
| 30° | 1323.4 | 1087.9 | 799.6 | 654.3 | 631.3 | 629.8 | 631.3 | 624.9 | 614.5 | 613.7 |
| 32.5° | 1408.0 | 1079.8 | 735.8 | 609.1 | 590.4 | 586.9 | 585.8 | 576.7 | 564.8 | 561.4 |
| 35° | 1484.4 | 1050.4 | 670.8 | 573.2 | 551.4 | 543.8 | 549.1 | 546.1 | 535.4 | 532.6 |
| 37.5° | 1540.2 | 995.7 | 612.2 | 541.5 | 523.5 | 521.6 | 525.0 | 526.2 | 513.5 | 510.9 |
| 40° | 1577.7 | 921.6 | 562.1 | 514.7 | 518.1 | 510.9 | 499.5 | 491.3 | 487.6 | 486.4 |
| 42.5° | 1608.0 | 844.3 | 520.1 | 502.0 | 519.3 | 498.2 | 473.4 | 460.4 | 467.3 | 470.4 |
| 45° | 1642.7 | 768.9 | 484.9 | 486.4 | 513.5 | 483.7 | 455.4 | 442.8 | 445.4 | 446.3 |
| 47.5° | 1690.6 | 677.2 | 447.0 | 461.2 | 494.4 | 473.7 | 444.3 | 426.3 | 413.8 | 408.0 |
| 50° | 1756.7 | 568.5 | 407.6 | 432.8 | 475.8 | 466.5 | 427.1 | 408.0 | 384.7 | 379.3 |
| 52.5° | 1802.6 | 467.3 | 375.1 | 409.1 | 458.9 | 452.0 | 413.3 | 388.5 | 364.1 | 359.5 |
| 55° | 1777.7 | 388.1 | 346.8 | 382.7 | 436.7 | 434.0 | 401.8 | 368.6 | 349.5 | 345.7 |
| 57.5° | 1653.4 | 338.0 | 325.0 | 358.0 | 409.5 | 418.7 | 386.6 | 351.9 | 338.0 | 335.3 |
| 60° | 1416.3 | 306.7 | 311.3 | 341.1 | 387.4 | 403.3 | 371.3 | 342.6 | 333.5 | 331.5 |
| 62.5° | 1098.9 | 285.6 | 300.9 | 328.9 | 370.2 | 392.7 | 362.8 | 341.4 | 338.0 | 335.8 |
| 65° | 787.3 | 268.8 | 289.9 | 316.7 | 354.4 | 382.7 | 359.8 | 339.9 | 340.7 | 338.8 |
| 67.5° | 535.0 | 253.9 | 276.4 | 302.8 | 339.1 | 374.0 | 355.6 | 334.6 | 344.1 | 341.9 |
| 70° | 374.3 | 239.4 | 260.8 | 285.2 | 320.0 | 361.7 | 348.0 | 326.5 | 325.8 | 316.7 |
| 72.5° | 292.2 | 220.2 | 239.4 | 260.8 | 295.5 | 344.5 | 332.7 | 308.5 | 296.0 | 286.4 |
| 73° | 278.7 | 215.7 | 234.1 | 255.4 | 290.2 | 340.4 | 328.5 | 303.6 | 289.4 | 280.7 |
| 75° | 230.5 | 195.8 | 212.6 | 231.7 | 267.2 | 320.4 | 307.8 | 281.1 | 263.1 | 257.8 |
| 77.5° | 181.3 | 167.5 | 183.5 | 200.7 | 235.6 | 291.4 | 277.2 | 251.7 | 241.7 | 237.1 |
| 80° | 134.2 | 138.8 | 153.0 | 168.3 | 204.2 | 260.4 | 247.8 | 222.2 | 266.5 | 255.4 |
| 82.5° | 94.4 | 105.1 | 118.1 | 131.8 | 171.3 | 230.2 | 214.9 | 188.5 | 195.0 | 162.1 |
| 85° | 55.8 | 68.9 | 81.1 | 92.9 | 123.5 | 190.7 | 177.4 | 150.2 | 123.1 | 117.4 |
| 87.5° | 32.4 | 38.2 | 41.6 | 53.9 | 84.9 | 143.7 | 125.0 | 111.2 | 63.8 | 43.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)