

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: P200207

Luminaire Tested: **GPC-AF-01-LED-E1-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200207
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-01-LED-E1-T4FT
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6541.8 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

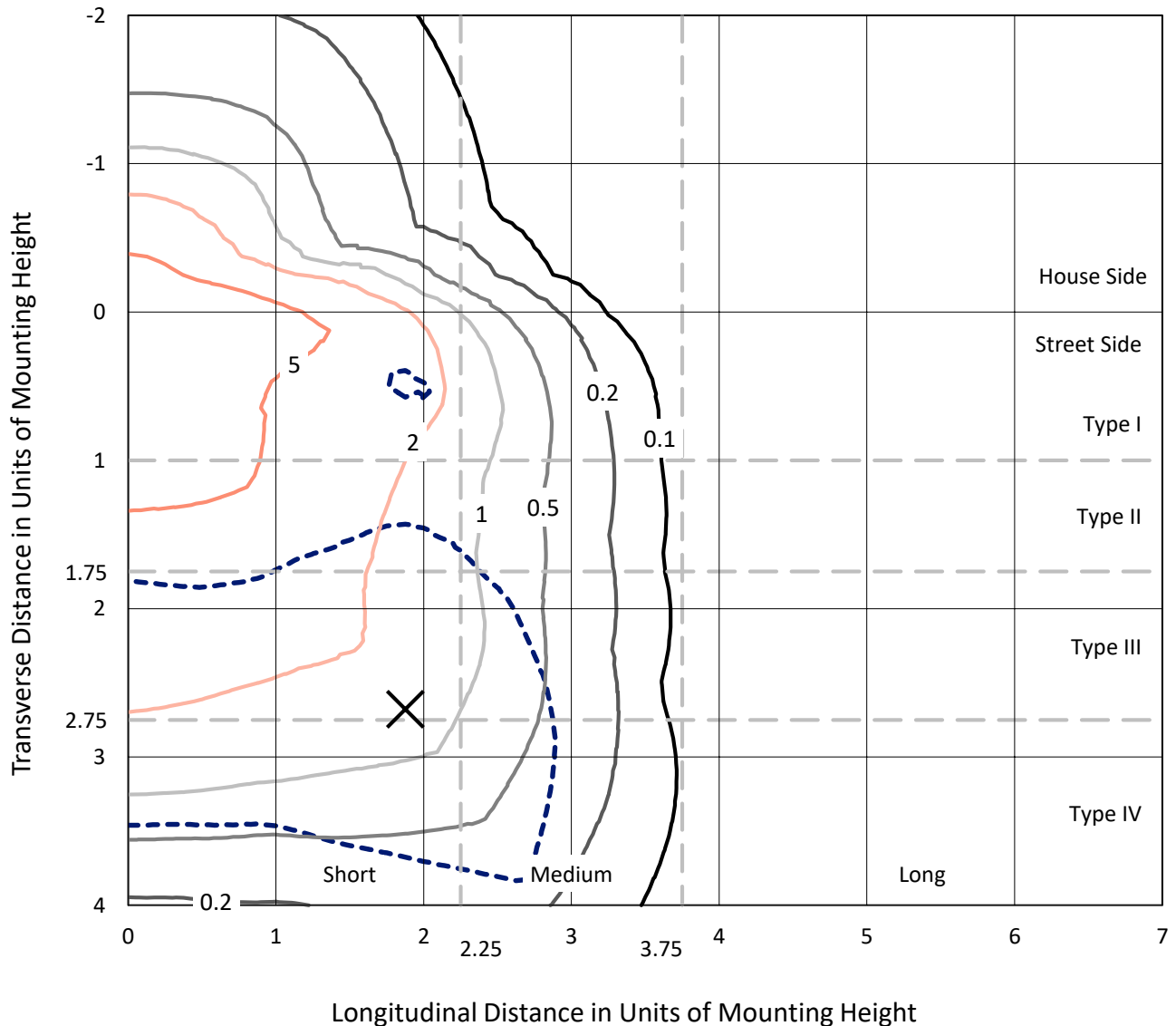
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P200207
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Iso-Footcandle Lines of Horizontal Illumination

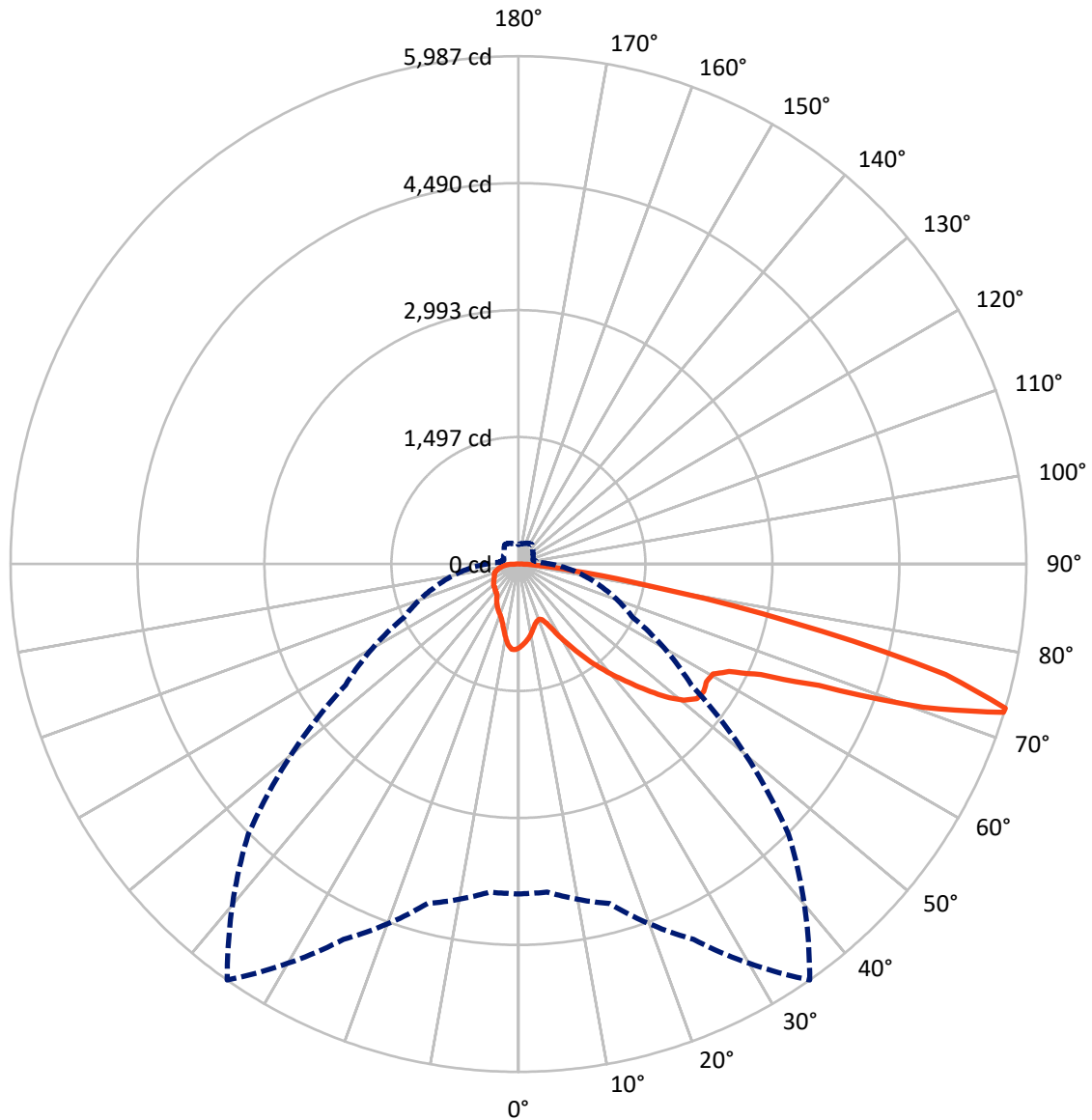
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.9 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 | 1247.7 | 0.0 | 1247.7 |
| | % Fixture | 19.1 | 0.0 | 19.1 |
| Street Side | Lumens | 5294.1 | 0.0 | 5294.1 |
| | % Fixture | 80.9 | 0.0 | 80.9 |
| Total | Lumens | 6541.8 | 0.0 | 6541.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 89.4 | 1.4 |
| 10°-20° | 223.1 | 3.4 |
| 20°-30° | 360.7 | 5.5 |
| 30°-40° | 604.8 | 9.2 |
| 40°-50° | 932.2 | 14.3 |
| 50°-60° | 1250.7 | 19.1 |
| 60°-70° | 1666.2 | 25.5 |
| 70°-80° | 1270.8 | 19.4 |
| 80°-90° | 144.0 | 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° | 6541.8 | 100.0 |
| 0°-180° | 6541.8 | 100.0 |



REPORT NUMBER: P200207

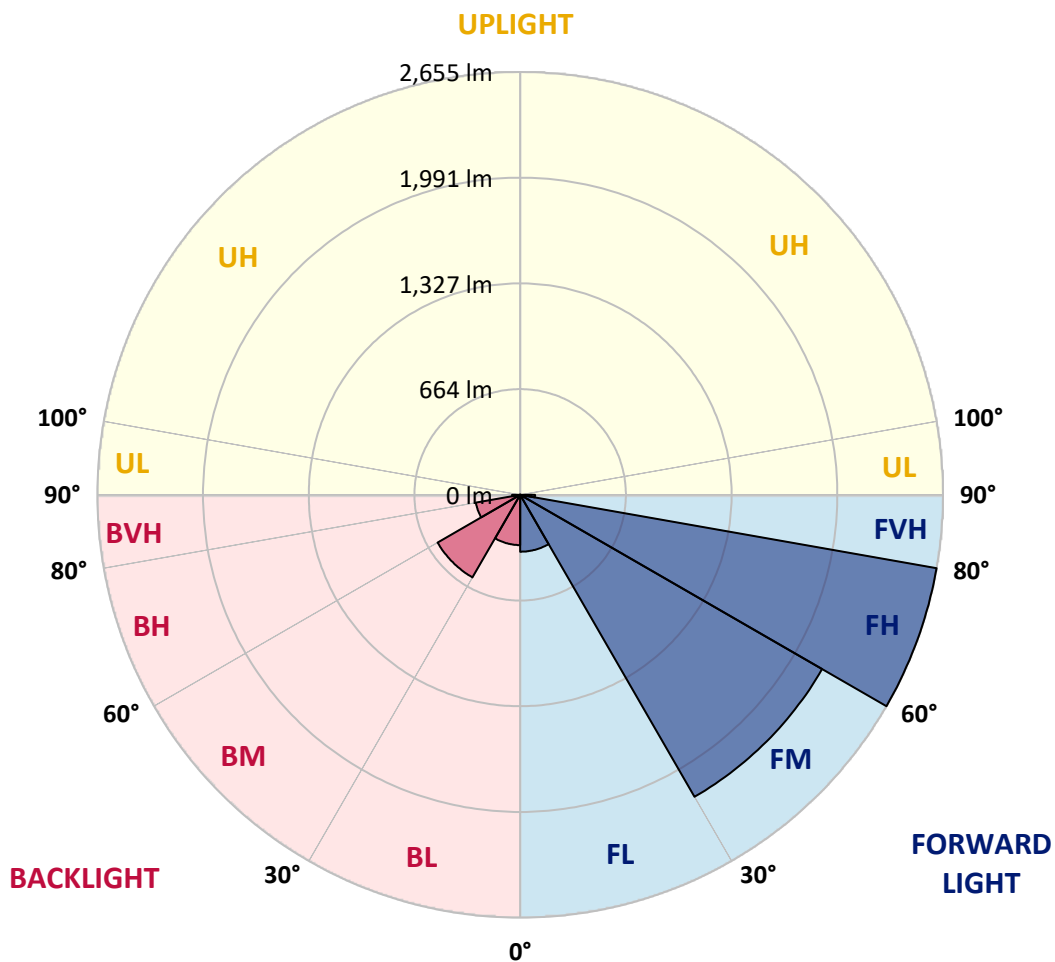
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 357.4 | 5.5 | | | |
| FM | (30°-60°) | 2188.9 | 33.5 | | | |
| FH | (60°-80°) | 2654.7 | 40.6 | | | G2/5000 |
| FVH | (80°-90°) | 93.1 | 1.4 | | | G1/100 |
| BL | (0°-30°) | 315.7 | 4.8 | B1/500 | | |
| BM | (30°-60°) | 598.8 | 9.2 | B1/1000 | | |
| BH | (60°-80°) | 282.3 | 4.3 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 50.9 | 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





REPORT NUMBER: P200207

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 987.4 | 987.4 | 987.4 | 987.4 | 987.4 | 987.4 | 987.4 | 987.4 | 987.4 | 987.4 | 987.4 |
| 2.5° | 948.4 | 950.3 | 948.1 | 950.9 | 955.6 | 960.7 | 964.1 | 969.1 | 974.8 | 982.6 | 984.5 |
| 5° | 903.8 | 906.6 | 906.6 | 911.7 | 920.8 | 928.9 | 936.5 | 944.6 | 956.6 | 970.1 | 975.4 |
| 7.5° | 854.8 | 856.3 | 859.2 | 866.7 | 879.9 | 891.5 | 902.2 | 915.4 | 931.7 | 949.7 | 959.1 |
| 10° | 795.8 | 797.9 | 802.3 | 813.0 | 830.9 | 846.9 | 862.3 | 880.6 | 901.3 | 923.6 | 935.5 |
| 12.5° | 753.9 | 753.3 | 755.2 | 763.0 | 778.8 | 798.2 | 820.5 | 843.8 | 869.2 | 895.3 | 909.8 |
| 15° | 739.8 | 736.3 | 729.2 | 727.2 | 735.7 | 755.2 | 780.9 | 809.6 | 840.0 | 871.5 | 889.4 |
| 17.5° | 748.6 | 742.7 | 722.8 | 708.4 | 707.2 | 721.9 | 749.2 | 781.2 | 816.4 | 854.8 | 877.1 |
| 20° | 803.9 | 789.7 | 741.0 | 707.5 | 695.8 | 703.1 | 726.9 | 760.9 | 802.3 | 853.2 | 881.8 |
| 22.5° | 936.1 | 915.4 | 812.0 | 749.5 | 710.2 | 701.4 | 719.4 | 755.6 | 803.9 | 872.7 | 909.1 |
| 25° | 1128.7 | 1099.2 | 934.0 | 854.5 | 773.5 | 726.6 | 730.7 | 767.7 | 826.2 | 917.9 | 961.9 |
| 27.5° | 1280.7 | 1261.6 | 1093.2 | 1002.4 | 888.4 | 794.4 | 767.4 | 798.5 | 871.8 | 992.1 | 1037.0 |
| 30° | 1371.3 | 1359.6 | 1263.4 | 1170.2 | 1035.1 | 902.5 | 837.8 | 856.3 | 943.1 | 1094.8 | 1131.9 |
| 32.5° | 1476.1 | 1469.3 | 1422.1 | 1336.4 | 1193.5 | 1044.5 | 949.3 | 942.8 | 1038.6 | 1218.2 | 1235.2 |
| 35° | 1584.9 | 1582.7 | 1555.0 | 1493.4 | 1363.4 | 1231.7 | 1097.3 | 1052.7 | 1142.5 | 1346.4 | 1335.8 |
| 37.5° | 1686.0 | 1682.2 | 1666.2 | 1630.4 | 1541.2 | 1432.8 | 1248.1 | 1165.4 | 1254.6 | 1469.0 | 1421.5 |
| 40° | 1872.3 | 1842.7 | 1787.8 | 1760.8 | 1720.9 | 1602.1 | 1367.8 | 1270.7 | 1371.0 | 1585.8 | 1495.7 |
| 42.5° | 2099.4 | 2051.3 | 1948.9 | 1911.9 | 1906.3 | 1735.6 | 1449.4 | 1372.8 | 1488.1 | 1701.7 | 1568.5 |
| 45° | 2278.2 | 2232.9 | 2144.6 | 2097.9 | 2118.6 | 1856.6 | 1531.5 | 1481.8 | 1608.7 | 1823.3 | 1643.6 |
| 47.5° | 2468.9 | 2397.9 | 2281.0 | 2295.1 | 2340.4 | 1970.9 | 1615.0 | 1599.0 | 1741.0 | 1959.4 | 1736.9 |
| 50° | 2475.7 | 2421.4 | 2370.2 | 2454.8 | 2525.1 | 2076.2 | 1719.6 | 1721.8 | 1902.8 | 2130.5 | 1861.0 |
| 52.5° | 2332.2 | 2320.6 | 2402.0 | 2534.9 | 2636.3 | 2159.4 | 1838.7 | 1848.8 | 2109.8 | 2327.2 | 1997.3 |
| 55° | 2281.9 | 2268.8 | 2362.7 | 2506.8 | 2651.4 | 2228.2 | 1967.9 | 1986.1 | 2360.2 | 2534.6 | 2130.2 |
| 57.5° | 2404.4 | 2375.3 | 2381.5 | 2493.6 | 2614.7 | 2303.6 | 2108.5 | 2145.3 | 2632.3 | 2715.7 | 2215.7 |
| 60° | 2746.9 | 2684.3 | 2565.7 | 2562.8 | 2634.4 | 2416.7 | 2271.3 | 2316.2 | 2914.9 | 2802.5 | 2182.4 |
| 62.5° | 3227.2 | 3164.7 | 2942.3 | 2797.5 | 2786.8 | 2603.3 | 2471.0 | 2483.0 | 3078.3 | 2685.0 | 1979.1 |
| 65° | 3747.1 | 3691.2 | 3442.7 | 3238.3 | 3139.5 | 2912.4 | 2703.2 | 2557.5 | 3024.9 | 2361.8 | 1623.5 |
| 67.5° | 4378.2 | 4318.2 | 4104.6 | 3915.9 | 3820.9 | 3411.3 | 2866.2 | 2486.2 | 2686.0 | 1829.5 | 1167.1 |
| 70° | 4819.6 | 4758.4 | 4674.2 | 4827.1 | 5059.3 | 4131.0 | 2887.3 | 2196.2 | 2006.1 | 1216.1 | 702.5 |
| 72.5° | 4243.8 | 4215.2 | 4368.8 | 5013.1 | 5980.1 | 4567.7 | 2610.0 | 1599.0 | 1165.1 | 645.6 | 406.5 |
| 73° | 3888.1 | 3881.9 | 4143.9 | 4882.7 | 5986.6 | 4500.5 | 2488.3 | 1486.2 | 999.3 | 571.1 | 371.6 |
| 75° | 1755.8 | 1806.3 | 2380.6 | 3729.5 | 5201.3 | 3708.5 | 1751.4 | 852.6 | 564.6 | 394.6 | 280.5 |
| 77.5° | 421.9 | 439.5 | 744.8 | 1771.1 | 3284.7 | 2210.0 | 793.5 | 421.6 | 361.0 | 278.7 | 204.8 |
| 80° | 179.7 | 185.7 | 286.8 | 654.4 | 1546.5 | 890.0 | 365.7 | 282.4 | 249.7 | 194.5 | 143.5 |
| 82.5° | 99.9 | 106.2 | 162.8 | 296.9 | 624.2 | 303.5 | 223.0 | 196.6 | 164.3 | 117.1 | 93.3 |
| 85° | 56.6 | 60.0 | 95.2 | 165.8 | 264.5 | 121.9 | 133.5 | 130.7 | 92.7 | 60.4 | 45.8 |
| 87.5° | 26.7 | 28.9 | 45.8 | 76.9 | 103.6 | 47.8 | 67.8 | 74.8 | 58.1 | 36.7 | 23.8 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 987.4 | 987.4 | 987.4 | 987.4 | 987.4 | 987.4 | 987.4 | 987.4 | 987.4 | 987.4 |
| 2.5° | 986.7 | 992.4 | 999.0 | 1002.4 | 1005.6 | 1009.3 | 1013.1 | 1013.1 | 1013.7 | 1014.1 |
| 5° | 979.8 | 991.4 | 1001.8 | 1006.2 | 1007.2 | 1007.2 | 1006.2 | 1001.2 | 996.8 | 998.7 |
| 7.5° | 965.4 | 982.3 | 991.1 | 989.6 | 977.6 | 963.8 | 952.2 | 938.0 | 930.8 | 929.6 |
| 10° | 944.6 | 964.1 | 965.7 | 950.0 | 920.5 | 890.9 | 866.4 | 842.5 | 831.2 | 828.4 |
| 12.5° | 921.7 | 939.6 | 929.6 | 897.2 | 849.8 | 806.7 | 775.6 | 751.5 | 740.7 | 738.0 |
| 15° | 903.2 | 915.4 | 890.0 | 839.1 | 779.4 | 733.9 | 708.1 | 690.2 | 682.6 | 680.5 |
| 17.5° | 893.4 | 895.9 | 849.5 | 780.6 | 717.2 | 679.1 | 663.2 | 654.7 | 651.8 | 650.3 |
| 20° | 898.2 | 880.6 | 810.8 | 726.3 | 666.4 | 639.5 | 635.9 | 633.6 | 633.0 | 632.1 |
| 22.5° | 921.7 | 875.9 | 775.3 | 674.7 | 621.6 | 610.1 | 613.3 | 612.8 | 612.2 | 611.6 |
| 25° | 963.8 | 879.9 | 740.7 | 625.7 | 584.3 | 581.8 | 587.5 | 587.5 | 584.9 | 584.9 |
| 27.5° | 1019.4 | 888.4 | 702.2 | 579.3 | 550.3 | 550.7 | 555.1 | 553.8 | 551.0 | 549.1 |
| 30° | 1087.3 | 893.8 | 656.8 | 537.5 | 518.6 | 517.4 | 518.6 | 513.3 | 504.8 | 504.2 |
| 32.5° | 1156.7 | 887.1 | 604.5 | 500.4 | 485.1 | 482.2 | 481.3 | 473.7 | 464.0 | 461.1 |
| 35° | 1219.5 | 863.0 | 551.0 | 470.9 | 453.0 | 446.7 | 451.1 | 448.6 | 439.8 | 437.6 |
| 37.5° | 1265.4 | 818.1 | 503.0 | 444.8 | 430.0 | 428.5 | 431.3 | 432.3 | 421.9 | 419.7 |
| 40° | 1296.2 | 757.1 | 461.8 | 422.9 | 425.6 | 419.7 | 410.3 | 403.7 | 400.5 | 399.6 |
| 42.5° | 1320.9 | 693.7 | 427.3 | 412.5 | 426.6 | 409.3 | 388.9 | 378.2 | 383.9 | 386.4 |
| 45° | 1349.6 | 631.8 | 398.3 | 399.6 | 421.9 | 397.4 | 374.2 | 363.8 | 366.0 | 366.6 |
| 47.5° | 1388.9 | 556.4 | 367.2 | 378.9 | 406.2 | 389.2 | 365.0 | 350.3 | 339.9 | 335.2 |
| 50° | 1443.2 | 467.2 | 334.9 | 355.6 | 390.8 | 383.3 | 350.9 | 335.2 | 316.0 | 311.6 |
| 52.5° | 1480.9 | 383.9 | 308.2 | 336.1 | 377.0 | 371.3 | 339.6 | 319.2 | 299.1 | 295.3 |
| 55° | 1460.5 | 318.9 | 284.9 | 314.5 | 358.7 | 356.6 | 330.2 | 302.8 | 287.1 | 284.0 |
| 57.5° | 1358.4 | 277.7 | 267.0 | 294.0 | 336.4 | 344.0 | 317.6 | 289.0 | 277.7 | 275.5 |
| 60° | 1163.6 | 252.0 | 255.7 | 280.2 | 318.2 | 331.4 | 305.0 | 281.5 | 273.9 | 272.4 |
| 62.5° | 902.9 | 234.7 | 247.2 | 270.2 | 304.1 | 322.6 | 298.1 | 280.5 | 277.7 | 275.8 |
| 65° | 646.8 | 220.9 | 238.1 | 260.1 | 291.2 | 314.5 | 295.6 | 279.3 | 279.9 | 278.3 |
| 67.5° | 439.5 | 208.6 | 227.1 | 248.8 | 278.7 | 307.2 | 292.2 | 274.9 | 282.7 | 280.8 |
| 70° | 307.5 | 196.6 | 214.2 | 234.4 | 262.9 | 297.2 | 285.9 | 268.3 | 267.6 | 260.1 |
| 72.5° | 240.0 | 181.0 | 196.6 | 214.2 | 242.8 | 283.1 | 273.3 | 253.5 | 243.2 | 235.3 |
| 73° | 229.0 | 177.2 | 192.2 | 209.8 | 238.4 | 279.6 | 269.9 | 249.4 | 237.8 | 230.6 |
| 75° | 189.5 | 160.8 | 174.6 | 190.4 | 219.6 | 263.2 | 252.9 | 230.9 | 216.1 | 211.8 |
| 77.5° | 148.9 | 137.6 | 150.8 | 164.9 | 193.5 | 239.4 | 227.7 | 206.7 | 198.6 | 194.8 |
| 80° | 110.3 | 114.1 | 125.6 | 138.2 | 167.8 | 213.9 | 203.6 | 182.5 | 218.9 | 209.8 |
| 82.5° | 77.6 | 86.4 | 97.1 | 108.3 | 140.8 | 189.1 | 176.6 | 154.9 | 160.2 | 133.2 |
| 85° | 45.8 | 56.6 | 66.6 | 76.3 | 101.5 | 156.7 | 145.8 | 123.5 | 101.2 | 96.5 |
| 87.5° | 26.7 | 31.4 | 34.3 | 44.3 | 69.8 | 118.2 | 102.7 | 91.5 | 52.5 | 35.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)