

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: P200348

Luminaire Tested: **GPC-AF-02-LED-E1-T3-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-7050-600
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8187 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

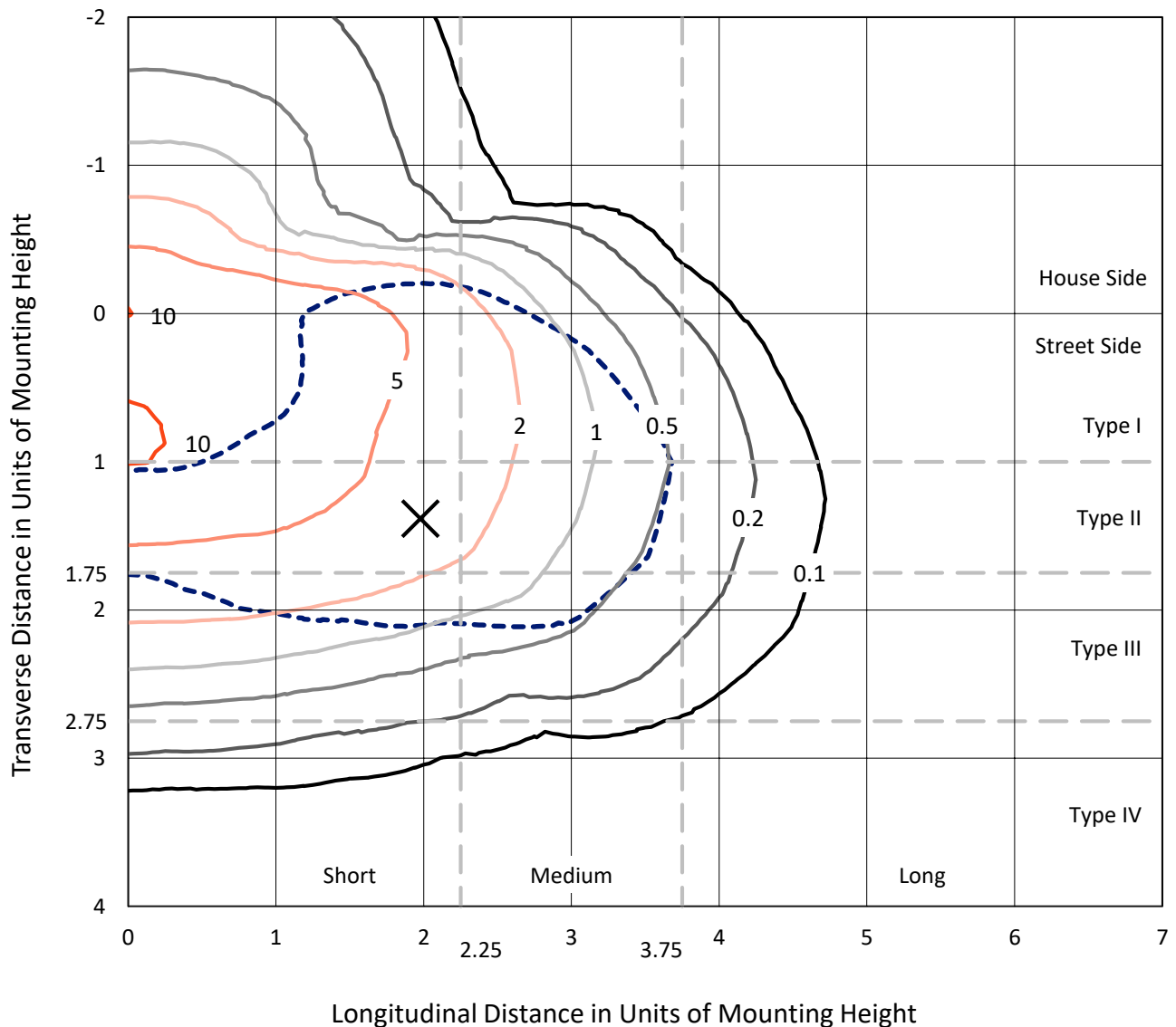
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

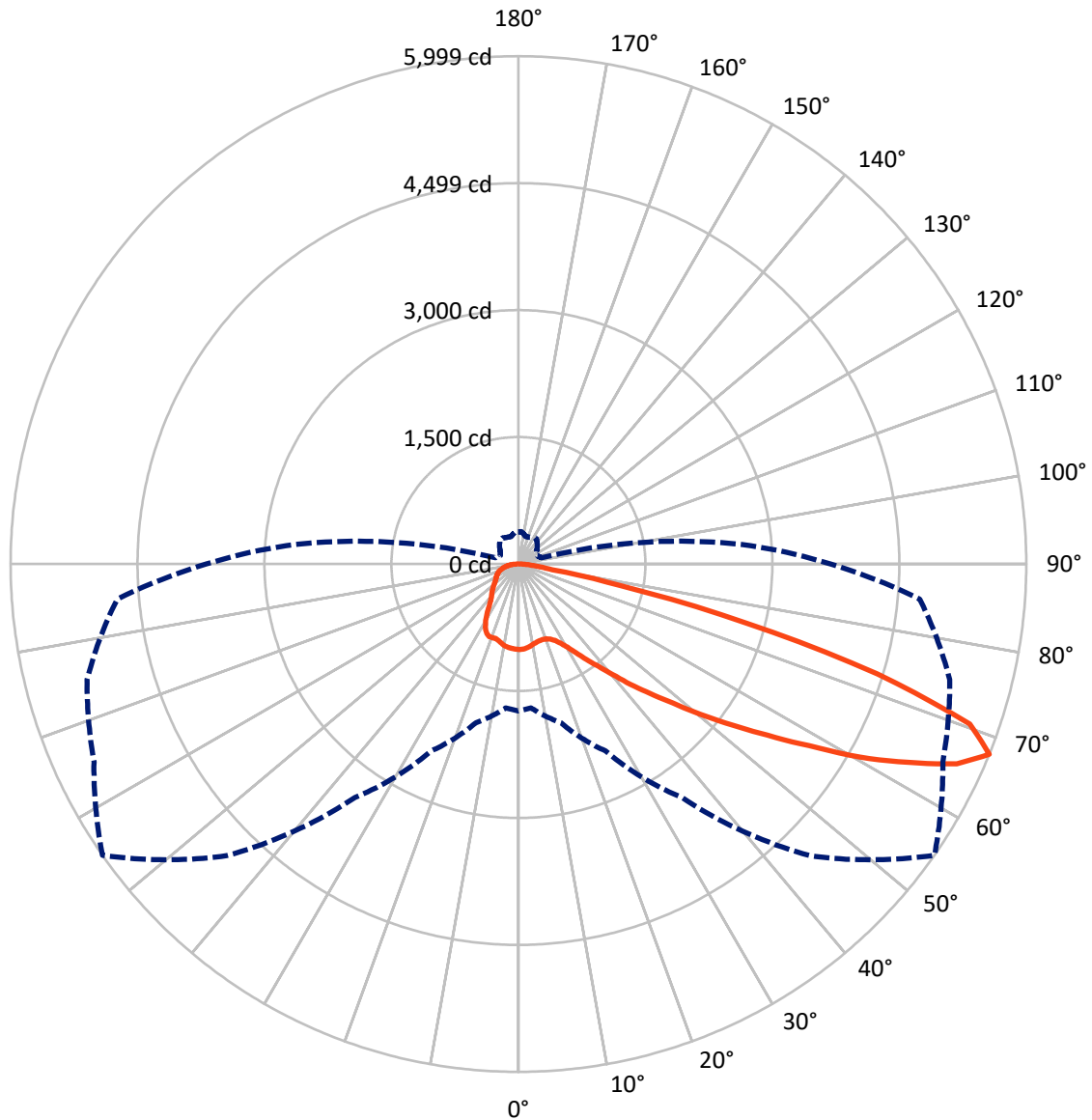
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1768.6 | 0.0 | 1768.6 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 6418.4 | 0.0 | 6418.4 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 8187.0 | 0.0 | 8187.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.2 | 1.2 |
| 10°-20° | 266.9 | 3.3 |
| 20°-30° | 447.0 | 5.5 |
| 30°-40° | 735.1 | 9.0 |
| 40°-50° | 1237.5 | 15.1 |
| 50°-60° | 1947.7 | 23.8 |
| 60°-70° | 2324.4 | 28.4 |
| 70°-80° | 998.1 | 12.2 |
| 80°-90° | 136.1 | 1.7 |
| 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° | 8187.0 | 100.0 |
| 0°-180° | 8187.0 | 100.0 |



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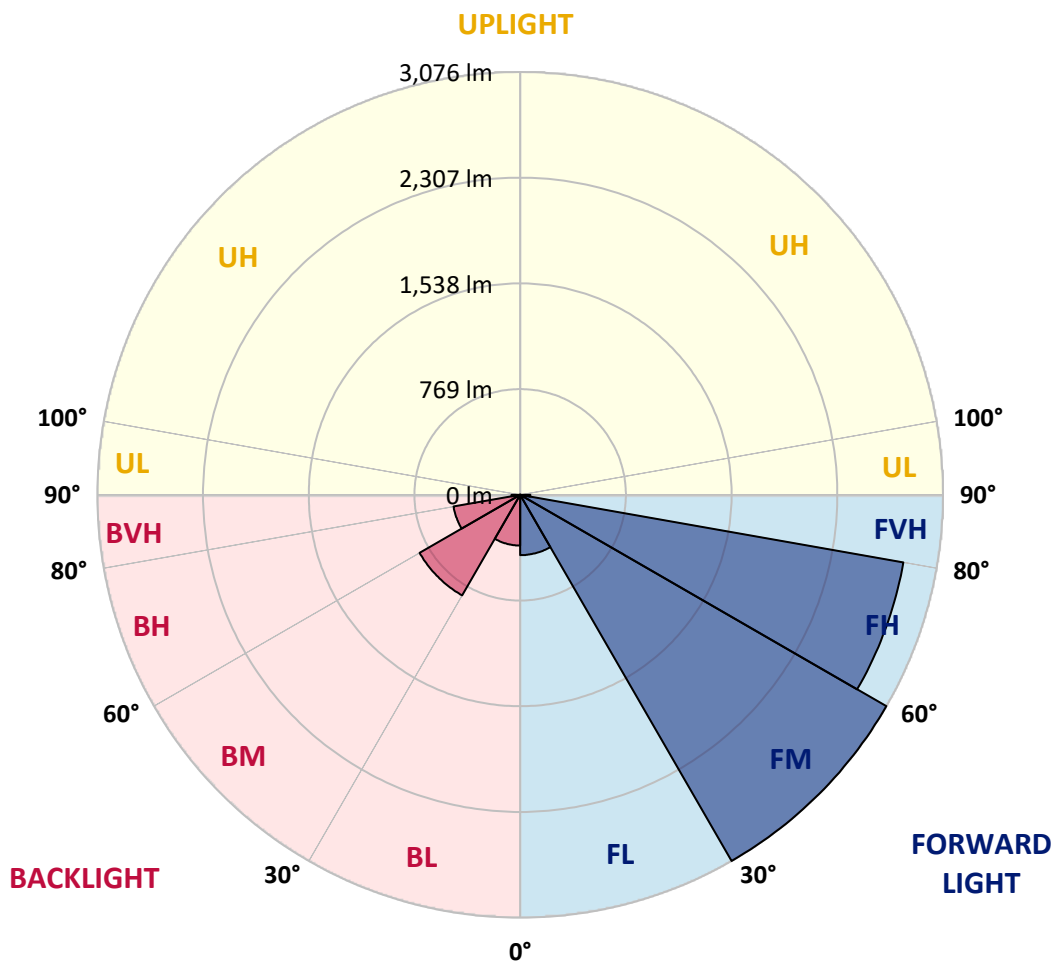
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 438.8 | 5.4 | | | |
| FM (30°-60°) | 3075.6 | 37.6 | | | |
| FH (60°-80°) | 2830.3 | 34.6 | | | G2/5000 |
| FVH (80°-90°) | 73.7 | 0.9 | | | G1/100 |
| BL (0°-30°) | 369.3 | 4.5 | B1/500 | | |
| BM (30°-60°) | 844.6 | 10.3 | B1/1000 | | |
| BH (60°-80°) | 492.2 | 6.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 62.4 | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1009.5 | 1009.5 | 1009.5 | 1009.5 | 1009.5 | 1009.5 | 1009.5 | 1009.5 | 1009.5 | 1009.5 | 1009.5 |
| 2.5° | 1000.8 | 1001.2 | 1002.0 | 1005.2 | 1008.0 | 1007.2 | 1007.6 | 1006.0 | 1005.6 | 1003.2 | 1005.6 |
| 5° | 988.2 | 989.4 | 989.8 | 994.9 | 998.1 | 998.9 | 997.7 | 995.7 | 993.3 | 991.0 | 992.1 |
| 7.5° | 959.3 | 962.5 | 962.9 | 970.0 | 975.1 | 981.9 | 982.3 | 982.7 | 981.5 | 979.9 | 982.3 |
| 10° | 941.1 | 941.9 | 941.5 | 946.7 | 950.6 | 958.1 | 962.5 | 970.0 | 973.2 | 974.0 | 975.5 |
| 12.5° | 939.9 | 939.2 | 938.0 | 938.0 | 936.8 | 939.9 | 947.9 | 958.5 | 966.0 | 968.4 | 970.4 |
| 15° | 952.6 | 952.2 | 948.3 | 942.3 | 934.8 | 932.4 | 939.2 | 951.0 | 960.9 | 966.0 | 968.0 |
| 17.5° | 981.1 | 978.7 | 972.4 | 958.9 | 942.7 | 936.4 | 937.2 | 947.1 | 958.5 | 965.3 | 967.2 |
| 20° | 1033.3 | 1033.3 | 1019.8 | 994.5 | 965.7 | 950.6 | 943.5 | 949.4 | 960.5 | 969.6 | 972.4 |
| 22.5° | 1123.4 | 1124.2 | 1101.7 | 1060.2 | 1011.5 | 979.5 | 961.7 | 960.5 | 973.6 | 983.8 | 987.0 |
| 25° | 1251.2 | 1248.0 | 1216.4 | 1157.0 | 1083.1 | 1030.1 | 999.3 | 992.1 | 1003.2 | 1014.7 | 1018.6 |
| 27.5° | 1399.8 | 1388.4 | 1350.8 | 1279.2 | 1183.5 | 1106.0 | 1058.6 | 1047.1 | 1057.8 | 1070.8 | 1074.8 |
| 30° | 1546.9 | 1535.1 | 1490.4 | 1412.1 | 1305.7 | 1207.7 | 1139.6 | 1121.1 | 1136.1 | 1154.7 | 1157.0 |
| 32.5° | 1694.0 | 1694.0 | 1644.2 | 1552.9 | 1437.0 | 1329.1 | 1247.6 | 1225.5 | 1250.4 | 1272.9 | 1278.0 |
| 35° | 1870.0 | 1870.8 | 1822.6 | 1712.6 | 1588.1 | 1473.8 | 1384.0 | 1367.8 | 1405.4 | 1421.2 | 1433.5 |
| 37.5° | 2086.3 | 2090.7 | 2028.6 | 1895.7 | 1759.3 | 1639.1 | 1532.3 | 1510.2 | 1547.7 | 1590.8 | 1630.4 |
| 40° | 2320.0 | 2325.6 | 2257.1 | 2093.4 | 1957.0 | 1831.3 | 1715.8 | 1675.9 | 1738.3 | 1820.6 | 1871.6 |
| 42.5° | 2543.0 | 2571.5 | 2505.5 | 2337.0 | 2190.3 | 2060.2 | 1943.2 | 1885.0 | 1963.3 | 2087.5 | 2131.8 |
| 45° | 2865.3 | 2885.9 | 2770.8 | 2618.2 | 2480.2 | 2334.7 | 2179.6 | 2118.3 | 2227.9 | 2384.5 | 2393.6 |
| 47.5° | 3080.0 | 3064.6 | 3006.1 | 2911.2 | 2823.8 | 2687.8 | 2454.5 | 2387.2 | 2532.8 | 2717.0 | 2666.0 |
| 50° | 3194.3 | 3199.1 | 3191.2 | 3196.7 | 3199.9 | 3114.4 | 2791.4 | 2699.2 | 2872.8 | 3095.5 | 2978.0 |
| 52.5° | 3301.1 | 3269.5 | 3295.6 | 3425.3 | 3581.9 | 3550.2 | 3157.9 | 3061.9 | 3237.4 | 3515.4 | 3307.8 |
| 55° | 3298.7 | 3250.5 | 3335.5 | 3564.5 | 3904.1 | 3940.5 | 3569.6 | 3458.9 | 3623.0 | 3965.8 | 3657.4 |
| 57.5° | 3182.1 | 3184.4 | 3315.3 | 3615.1 | 4128.7 | 4307.5 | 4047.3 | 3881.2 | 4031.9 | 4422.2 | 3976.5 |
| 60° | 3021.5 | 3043.3 | 3231.9 | 3606.8 | 4308.7 | 4608.4 | 4633.3 | 4336.3 | 4432.4 | 4837.0 | 4240.6 |
| 62.5° | 2762.5 | 2785.4 | 3045.6 | 3520.6 | 4281.4 | 4898.3 | 5163.2 | 4852.8 | 4851.2 | 5088.5 | 4318.2 |
| 65° | 2354.0 | 2347.3 | 2620.6 | 3198.3 | 4052.4 | 5112.6 | 5689.5 | 5299.2 | 5166.8 | 5092.4 | 4162.4 |
| 67.5° | 1736.0 | 1705.9 | 1940.4 | 2435.9 | 3368.3 | 4872.6 | 5999.2 | 5531.7 | 5274.3 | 4757.5 | 3686.2 |
| 70° | 900.8 | 870.7 | 1060.6 | 1422.4 | 2215.2 | 3802.9 | 5656.3 | 5411.5 | 5036.7 | 3988.0 | 2887.9 |
| 72.5° | 385.2 | 380.0 | 457.1 | 624.0 | 1071.6 | 2193.5 | 4435.2 | 4683.9 | 4321.7 | 2971.3 | 1985.5 |
| 75° | 259.0 | 257.4 | 286.3 | 340.1 | 482.0 | 890.1 | 2775.6 | 3324.8 | 3161.9 | 1842.3 | 1116.7 |
| 77.5° | 203.3 | 201.3 | 218.3 | 244.4 | 312.4 | 351.1 | 1231.8 | 1785.0 | 1652.1 | 801.9 | 488.8 |
| 80° | 159.0 | 157.4 | 168.1 | 182.3 | 224.6 | 221.4 | 405.3 | 710.2 | 549.7 | 307.3 | 237.7 |
| 82.5° | 125.4 | 125.4 | 134.1 | 134.4 | 159.4 | 151.1 | 211.6 | 312.8 | 274.4 | 179.1 | 145.5 |
| 85° | 114.7 | 114.7 | 123.8 | 100.4 | 104.0 | 95.3 | 131.3 | 185.5 | 174.0 | 73.6 | 63.3 |
| 87.5° | 57.7 | 56.2 | 104.0 | 89.0 | 56.5 | 50.6 | 64.1 | 89.8 | 96.5 | 40.7 | 31.6 |
| 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° | 1009.5 | 1009.5 | 1009.5 | 1009.5 | 1009.5 | 1009.5 | 1009.5 | 1009.5 | 1009.5 | 1009.5 |
| 2.5° | 1004.8 | 1004.4 | 1005.2 | 1005.6 | 1008.8 | 1013.1 | 1015.1 | 1017.9 | 1019.4 | 1018.6 |
| 5° | 992.9 | 993.7 | 996.9 | 999.3 | 1004.8 | 1011.9 | 1015.9 | 1019.0 | 1021.8 | 1020.6 |
| 7.5° | 983.1 | 985.0 | 989.8 | 991.8 | 994.9 | 996.9 | 996.5 | 997.7 | 1000.1 | 997.3 |
| 10° | 977.5 | 979.9 | 983.4 | 980.7 | 973.2 | 962.5 | 952.6 | 947.5 | 949.0 | 947.1 |
| 12.5° | 972.0 | 975.1 | 972.4 | 959.3 | 938.4 | 924.5 | 917.0 | 917.8 | 921.4 | 922.2 |
| 15° | 968.8 | 970.0 | 958.1 | 933.6 | 912.3 | 910.3 | 914.2 | 913.5 | 913.9 | 913.9 |
| 17.5° | 968.8 | 965.7 | 943.5 | 919.0 | 909.9 | 906.3 | 894.1 | 878.7 | 871.9 | 869.6 |
| 20° | 974.0 | 965.7 | 938.8 | 922.6 | 902.8 | 872.3 | 839.9 | 811.4 | 798.8 | 795.2 |
| 22.5° | 989.4 | 975.1 | 952.2 | 924.1 | 868.0 | 817.0 | 765.6 | 731.6 | 708.6 | 704.7 |
| 25° | 1020.6 | 1004.8 | 978.7 | 903.2 | 812.6 | 739.9 | 681.3 | 643.4 | 620.4 | 617.3 |
| 27.5° | 1075.2 | 1064.9 | 992.9 | 856.9 | 739.1 | 661.2 | 607.0 | 577.7 | 560.7 | 559.5 |
| 30° | 1157.4 | 1152.3 | 985.8 | 788.5 | 648.5 | 584.8 | 558.8 | 541.7 | 529.1 | 528.7 |
| 32.5° | 1288.7 | 1247.2 | 962.5 | 705.1 | 565.9 | 530.7 | 520.0 | 509.7 | 499.8 | 499.8 |
| 35° | 1457.6 | 1323.9 | 918.2 | 615.7 | 515.6 | 500.6 | 487.2 | 471.0 | 457.9 | 457.1 |
| 37.5° | 1656.1 | 1371.4 | 838.7 | 543.7 | 491.9 | 480.5 | 460.7 | 436.6 | 413.6 | 409.7 |
| 40° | 1856.6 | 1385.6 | 726.8 | 499.4 | 476.9 | 460.3 | 436.2 | 407.7 | 385.5 | 384.4 |
| 42.5° | 2040.4 | 1358.3 | 608.2 | 469.0 | 461.9 | 439.7 | 414.4 | 389.1 | 371.7 | 371.3 |
| 45° | 2194.7 | 1287.5 | 508.5 | 440.1 | 446.1 | 421.1 | 398.6 | 378.0 | 364.6 | 361.8 |
| 47.5° | 2339.8 | 1187.5 | 438.5 | 409.7 | 430.2 | 410.9 | 391.9 | 372.5 | 359.5 | 357.5 |
| 50° | 2508.2 | 1079.5 | 389.5 | 380.0 | 416.4 | 407.3 | 397.4 | 377.2 | 355.5 | 353.1 |
| 52.5° | 2712.3 | 986.2 | 351.1 | 353.9 | 405.7 | 412.0 | 411.6 | 390.7 | 352.7 | 349.6 |
| 55° | 2940.1 | 882.6 | 322.3 | 332.6 | 401.4 | 420.7 | 415.2 | 403.3 | 355.1 | 350.4 |
| 57.5° | 3164.3 | 761.6 | 302.1 | 316.3 | 395.0 | 420.0 | 398.2 | 381.2 | 360.6 | 353.9 |
| 60° | 3332.3 | 599.1 | 286.7 | 302.1 | 381.2 | 406.9 | 379.6 | 357.1 | 359.5 | 354.3 |
| 62.5° | 3343.4 | 463.1 | 268.1 | 289.9 | 360.2 | 393.9 | 367.4 | 346.4 | 364.6 | 359.8 |
| 65° | 3146.9 | 350.0 | 250.3 | 275.2 | 337.7 | 385.5 | 355.5 | 340.5 | 375.3 | 370.1 |
| 67.5° | 2649.4 | 281.5 | 235.3 | 260.2 | 315.2 | 368.2 | 344.8 | 334.9 | 384.8 | 375.7 |
| 70° | 1912.7 | 240.0 | 220.7 | 242.0 | 295.0 | 348.4 | 335.3 | 325.0 | 359.1 | 344.8 |
| 72.5° | 1177.6 | 208.0 | 204.0 | 217.9 | 279.6 | 327.8 | 321.1 | 306.5 | 323.5 | 312.0 |
| 75° | 588.0 | 180.3 | 185.5 | 194.2 | 257.8 | 304.5 | 297.4 | 282.7 | 285.1 | 282.7 |
| 77.5° | 281.5 | 154.2 | 163.7 | 170.4 | 229.7 | 278.0 | 270.5 | 255.5 | 252.7 | 253.1 |
| 80° | 178.3 | 128.9 | 138.0 | 142.8 | 205.2 | 247.1 | 239.6 | 224.6 | 256.2 | 237.7 |
| 82.5° | 111.5 | 104.8 | 107.2 | 115.9 | 178.7 | 215.1 | 205.2 | 191.8 | 230.9 | 182.7 |
| 85° | 61.7 | 73.2 | 76.3 | 83.8 | 137.6 | 179.9 | 170.0 | 153.0 | 137.2 | 134.8 |
| 87.5° | 36.8 | 43.5 | 44.7 | 50.2 | 92.5 | 130.1 | 115.1 | 109.1 | 90.6 | 90.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)