

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: P200343

Luminaire Tested: **GPC-AF-01-LED-E1-T2R-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
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-T2R-7050
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6623 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

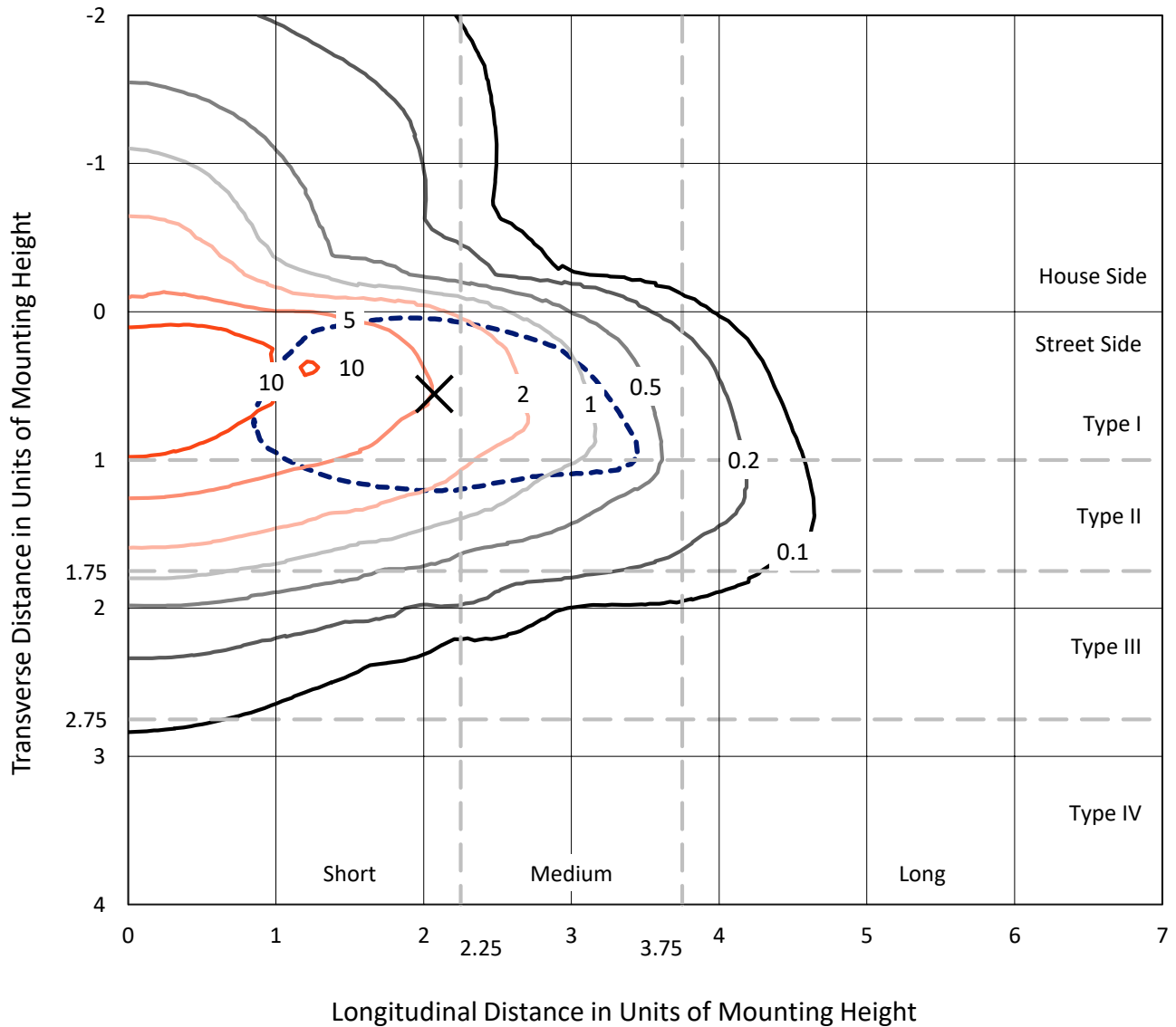
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

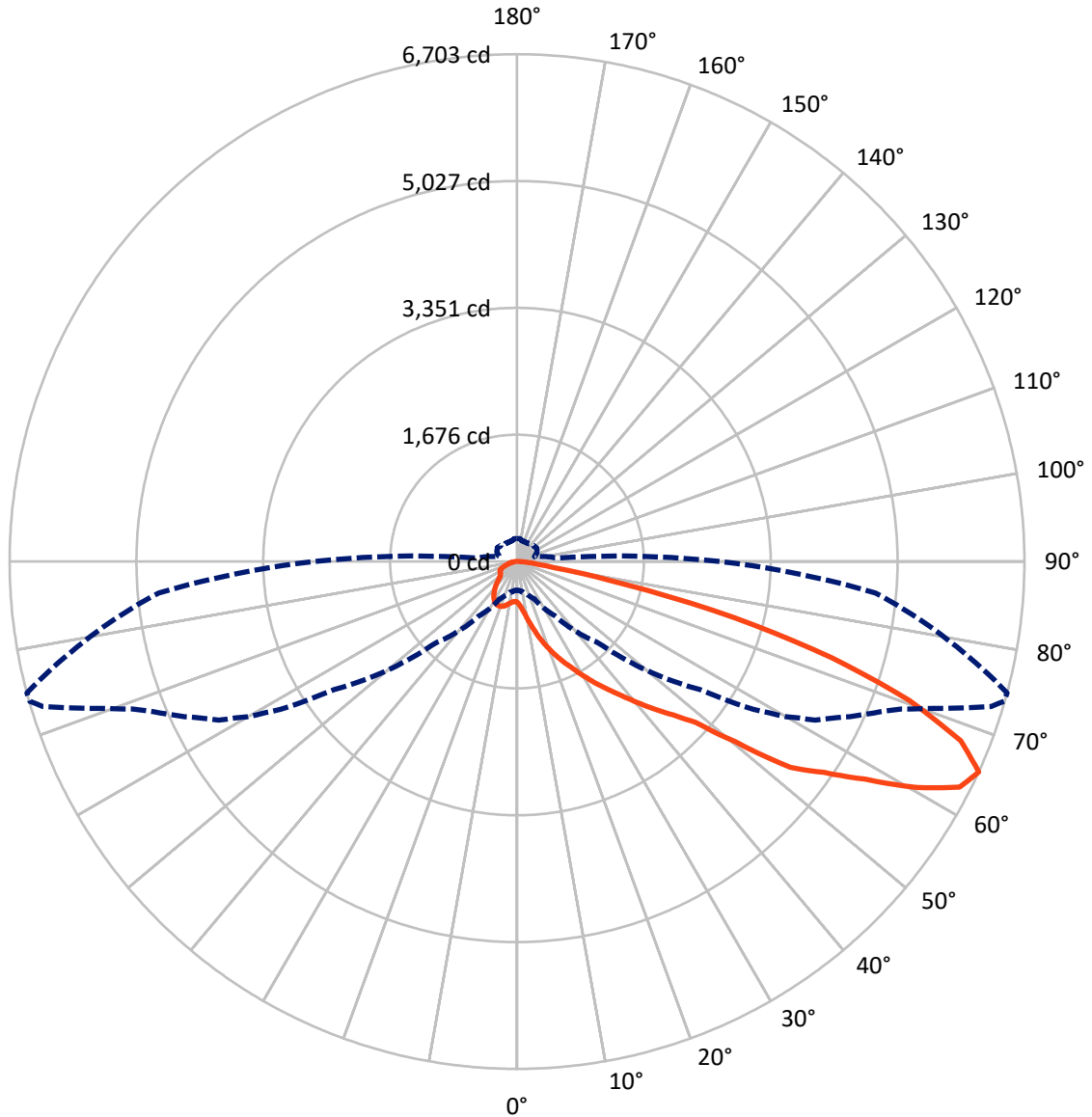
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1021.1 | 0.0 | 1021.1 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 5601.9 | 0.0 | 5601.9 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 6623.0 | 0.0 | 6623.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 66.5 | 1.0 |
| 10°-20° | 259.9 | 3.9 |
| 20°-30° | 533.3 | 8.1 |
| 30°-40° | 897.3 | 13.5 |
| 40°-50° | 1239.8 | 18.7 |
| 50°-60° | 1547.6 | 23.4 |
| 60°-70° | 1392.7 | 21.0 |
| 70°-80° | 583.8 | 8.8 |
| 80°-90° | 102.0 | 1.5 |
| 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° | 6623.0 | 100.0 |
| 0°-180° | 6623.0 | 100.0 |



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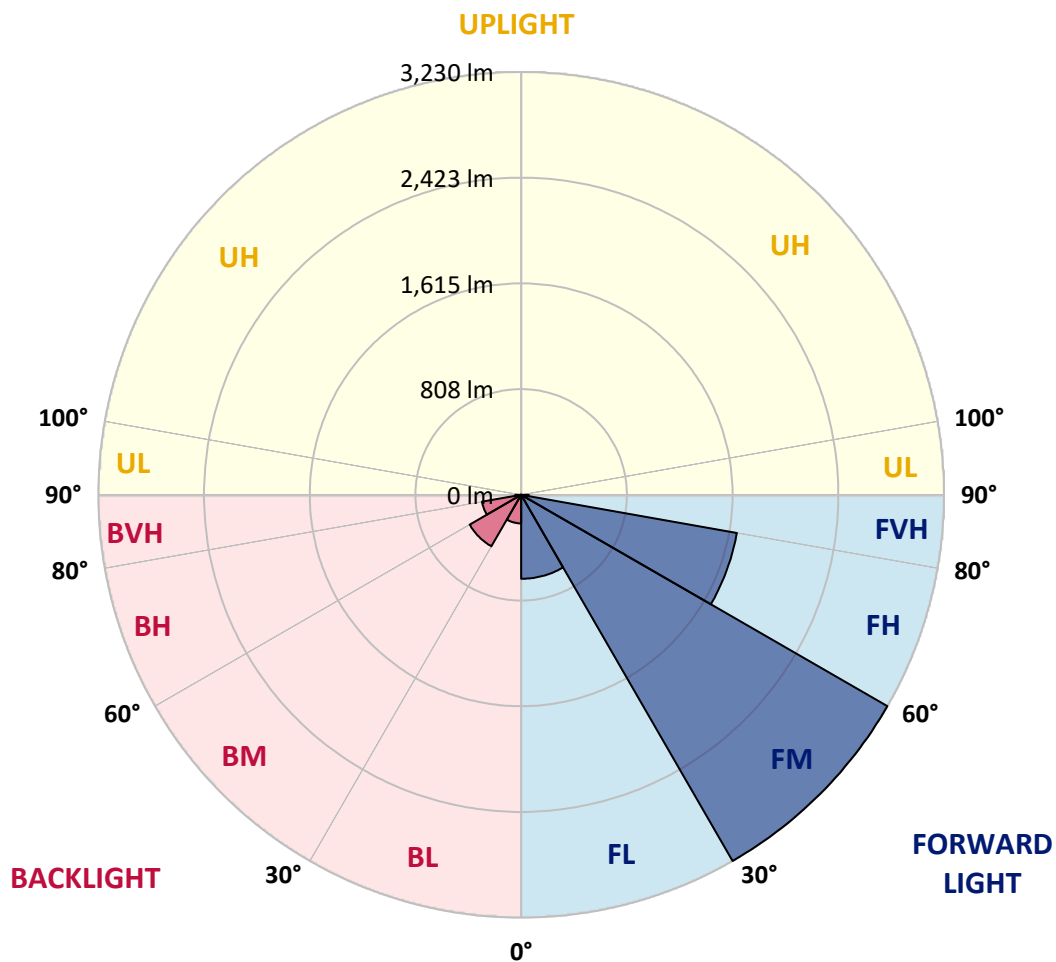
CATALOG NUMBER: GPC-AF-01-LED-E1-T2R-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 641.4 | 9.7 | | | |
| FM (30°-60°) | 3230.2 | 48.8 | | | |
| FH (60°-80°) | 1672.9 | 25.3 | | | G1/1800 |
| FVH (80°-90°) | 57.3 | 0.9 | | | G1/100 |
| BL (0°-30°) | 218.4 | 3.3 | B1/500 | | |
| BM (30°-60°) | 454.5 | 6.9 | B1/1000 | | |
| BH (60°-80°) | 303.6 | 4.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 44.7 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 538.2 | 538.2 | 538.2 | 538.2 | 538.2 | 538.2 | 538.2 | 538.2 | 538.2 | 538.2 | 538.2 |
| 2.5° | 683.4 | 675.9 | 677.7 | 665.2 | 649.8 | 629.8 | 607.5 | 607.2 | 607.5 | 605.3 | 597.2 |
| 5° | 947.7 | 938.6 | 935.1 | 906.9 | 865.5 | 806.6 | 742.6 | 735.7 | 732.9 | 725.7 | 709.1 |
| 7.5° | 1140.4 | 1135.4 | 1130.1 | 1108.8 | 1071.2 | 1005.3 | 919.4 | 904.7 | 890.6 | 887.1 | 868.3 |
| 10° | 1264.9 | 1263.6 | 1252.4 | 1246.7 | 1223.2 | 1166.1 | 1082.4 | 1068.3 | 1053.0 | 1047.7 | 1027.9 |
| 12.5° | 1363.3 | 1363.0 | 1357.7 | 1359.2 | 1338.9 | 1297.5 | 1225.4 | 1212.5 | 1201.3 | 1185.0 | 1170.8 |
| 15° | 1431.4 | 1431.7 | 1439.5 | 1448.3 | 1445.1 | 1417.2 | 1349.5 | 1343.9 | 1334.2 | 1322.9 | 1306.3 |
| 17.5° | 1487.1 | 1488.7 | 1496.9 | 1512.9 | 1530.1 | 1527.9 | 1474.3 | 1469.6 | 1461.1 | 1445.8 | 1437.0 |
| 20° | 1613.2 | 1619.1 | 1603.5 | 1603.5 | 1605.3 | 1613.8 | 1588.1 | 1584.3 | 1572.4 | 1564.3 | 1557.4 |
| 22.5° | 1826.0 | 1832.9 | 1797.5 | 1761.4 | 1726.0 | 1700.3 | 1674.6 | 1679.3 | 1671.2 | 1665.5 | 1661.4 |
| 25° | 2102.5 | 2107.8 | 2050.5 | 1989.7 | 1917.6 | 1823.5 | 1759.9 | 1757.1 | 1752.7 | 1749.2 | 1747.3 |
| 27.5° | 2362.7 | 2364.9 | 2310.7 | 2221.6 | 2137.9 | 2002.8 | 1846.4 | 1842.9 | 1837.6 | 1831.0 | 1825.4 |
| 30° | 2585.3 | 2584.6 | 2528.8 | 2443.9 | 2354.2 | 2204.7 | 1977.7 | 1967.1 | 1951.4 | 1933.5 | 1919.8 |
| 32.5° | 2778.1 | 2777.1 | 2716.0 | 2627.9 | 2533.9 | 2404.7 | 2157.7 | 2135.7 | 2111.3 | 2076.5 | 2055.5 |
| 35° | 2929.8 | 2929.2 | 2871.5 | 2779.6 | 2671.8 | 2593.1 | 2364.0 | 2337.0 | 2306.0 | 2259.3 | 2227.0 |
| 37.5° | 2987.2 | 2987.2 | 2954.9 | 2892.2 | 2796.9 | 2743.0 | 2593.1 | 2560.5 | 2527.3 | 2474.3 | 2437.9 |
| 40° | 2953.6 | 2954.2 | 2961.1 | 2949.5 | 2903.1 | 2861.8 | 2806.9 | 2787.5 | 2758.9 | 2711.3 | 2673.4 |
| 42.5° | 2841.1 | 2844.5 | 2890.3 | 2946.4 | 2969.6 | 2963.0 | 2996.6 | 2987.8 | 2967.7 | 2931.0 | 2900.9 |
| 45° | 2698.4 | 2709.1 | 2759.3 | 2865.2 | 2988.1 | 3050.5 | 3155.5 | 3156.4 | 3152.7 | 3132.9 | 3109.7 |
| 47.5° | 2502.5 | 2517.6 | 2583.7 | 2727.0 | 2944.8 | 3135.4 | 3316.9 | 3325.4 | 3333.2 | 3320.4 | 3309.7 |
| 50° | 2242.3 | 2260.2 | 2359.3 | 2549.2 | 2856.7 | 3223.5 | 3621.9 | 3660.2 | 3695.9 | 3691.5 | 3698.8 |
| 52.5° | 1963.6 | 1984.6 | 2106.0 | 2317.6 | 2705.3 | 3243.9 | 3816.9 | 3879.3 | 3941.7 | 3992.8 | 4047.0 |
| 55° | 1712.2 | 1700.9 | 1822.3 | 2045.1 | 2456.4 | 3152.0 | 3992.2 | 4067.4 | 4137.0 | 4199.7 | 4264.3 |
| 57.5° | 1371.5 | 1390.0 | 1511.6 | 1732.0 | 2127.0 | 2892.8 | 4112.9 | 4222.9 | 4322.9 | 4426.7 | 4518.2 |
| 60° | 1002.5 | 1021.0 | 1153.0 | 1376.8 | 1769.3 | 2499.7 | 4020.7 | 4187.5 | 4347.7 | 4506.6 | 4630.7 |
| 62.5° | 605.3 | 619.1 | 735.4 | 948.6 | 1364.3 | 2033.5 | 3610.0 | 3828.8 | 4064.6 | 4254.6 | 4444.8 |
| 65° | 376.8 | 384.6 | 427.6 | 544.8 | 876.2 | 1518.2 | 2949.5 | 3188.1 | 3442.0 | 3683.1 | 3880.9 |
| 67.5° | 308.5 | 311.3 | 319.1 | 344.2 | 481.2 | 990.0 | 2195.3 | 2406.6 | 2635.7 | 2869.0 | 3089.0 |
| 70° | 277.4 | 275.5 | 275.5 | 277.1 | 308.5 | 532.3 | 1437.3 | 1574.9 | 1765.8 | 1968.7 | 2169.9 |
| 72.5° | 250.5 | 248.6 | 245.1 | 240.4 | 251.7 | 324.8 | 742.9 | 846.7 | 984.3 | 1164.6 | 1357.4 |
| 75° | 225.1 | 222.6 | 218.5 | 212.5 | 220.4 | 245.1 | 356.7 | 400.3 | 467.4 | 563.3 | 670.8 |
| 77.5° | 198.7 | 195.6 | 191.8 | 187.5 | 197.5 | 190.6 | 209.1 | 224.8 | 250.5 | 281.2 | 321.6 |
| 80° | 169.0 | 166.1 | 164.9 | 162.7 | 174.6 | 145.1 | 147.6 | 157.4 | 172.4 | 189.0 | 207.8 |
| 82.5° | 132.3 | 132.3 | 137.3 | 138.2 | 151.4 | 104.4 | 110.3 | 118.8 | 126.6 | 135.4 | 144.2 |
| 85° | 87.1 | 87.8 | 104.7 | 111.3 | 119.4 | 70.2 | 82.8 | 85.6 | 91.8 | 96.9 | 100.6 |
| 87.5° | 27.3 | 29.5 | 63.9 | 70.8 | 68.7 | 39.8 | 50.8 | 52.0 | 56.4 | 59.9 | 63.0 |
| 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):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 538.2 | 538.2 | 538.2 | 538.2 | 538.2 | 538.2 | 538.2 | 538.2 | 538.2 | 538.2 | 538.2 |
| 2.5° | 597.2 | 593.4 | 590.0 | 589.7 | 587.1 | 583.7 | 585.0 | 579.6 | 579.9 | 577.1 | 574.0 |
| 5° | 702.2 | 699.7 | 687.1 | 683.7 | 674.3 | 668.3 | 667.4 | 654.9 | 653.3 | 646.1 | 638.2 |
| 7.5° | 853.3 | 845.1 | 827.6 | 819.1 | 803.1 | 791.2 | 785.6 | 769.0 | 760.8 | 742.0 | 733.5 |
| 10° | 1011.6 | 1001.3 | 979.6 | 967.7 | 952.4 | 933.2 | 922.9 | 898.7 | 889.3 | 872.1 | 851.4 |
| 12.5° | 1158.3 | 1148.0 | 1125.7 | 1116.6 | 1096.2 | 1075.9 | 1064.6 | 1037.3 | 1025.1 | 997.5 | 981.2 |
| 15° | 1294.0 | 1283.7 | 1264.3 | 1254.9 | 1234.5 | 1217.9 | 1202.8 | 1175.9 | 1161.4 | 1135.7 | 1114.4 |
| 17.5° | 1425.7 | 1414.7 | 1397.8 | 1389.3 | 1369.6 | 1352.7 | 1336.4 | 1311.0 | 1296.2 | 1270.5 | 1251.4 |
| 20° | 1548.0 | 1539.8 | 1527.6 | 1516.3 | 1496.6 | 1481.2 | 1461.8 | 1439.8 | 1418.5 | 1399.7 | 1381.5 |
| 22.5° | 1654.5 | 1651.4 | 1638.2 | 1633.2 | 1616.3 | 1603.1 | 1586.2 | 1564.6 | 1549.2 | 1525.4 | 1508.5 |
| 25° | 1746.4 | 1745.5 | 1739.2 | 1737.6 | 1725.7 | 1713.2 | 1709.4 | 1691.5 | 1677.4 | 1656.4 | 1638.9 |
| 27.5° | 1825.4 | 1826.3 | 1824.8 | 1829.2 | 1826.0 | 1820.4 | 1820.7 | 1814.7 | 1806.6 | 1789.0 | 1773.7 |
| 30° | 1913.2 | 1908.2 | 1911.0 | 1917.2 | 1919.1 | 1919.8 | 1930.1 | 1933.5 | 1932.9 | 1921.3 | 1913.8 |
| 32.5° | 2037.3 | 2025.4 | 2014.4 | 2013.5 | 2019.8 | 2022.3 | 2039.8 | 2048.9 | 2056.7 | 2059.6 | 2060.8 |
| 35° | 2195.6 | 2171.8 | 2148.9 | 2136.7 | 2126.0 | 2128.8 | 2141.4 | 2156.1 | 2173.4 | 2185.3 | 2199.4 |
| 37.5° | 2395.0 | 2365.8 | 2325.4 | 2296.6 | 2289.3 | 2273.7 | 2281.8 | 2293.4 | 2310.3 | 2328.8 | 2353.3 |
| 40° | 2636.7 | 2592.5 | 2547.0 | 2508.8 | 2488.1 | 2459.3 | 2458.9 | 2456.7 | 2467.1 | 2484.3 | 2518.8 |
| 42.5° | 2869.3 | 2830.1 | 2781.8 | 2741.7 | 2714.7 | 2676.2 | 2668.3 | 2648.0 | 2652.7 | 2667.7 | 2701.3 |
| 45° | 3087.2 | 3054.9 | 3025.4 | 2979.0 | 2956.1 | 2914.4 | 2901.3 | 2877.1 | 2863.6 | 2870.5 | 2904.1 |
| 47.5° | 3298.1 | 3277.4 | 3246.7 | 3216.6 | 3199.1 | 3161.8 | 3144.8 | 3127.6 | 3110.4 | 3109.7 | 3144.8 |
| 50° | 3709.4 | 3698.4 | 3662.1 | 3630.7 | 3639.2 | 3593.4 | 3596.2 | 3549.8 | 3570.9 | 3573.4 | 3647.0 |
| 52.5° | 4095.9 | 4134.2 | 4161.1 | 4194.1 | 4215.4 | 4219.4 | 4233.5 | 4254.6 | 4279.9 | 4330.1 | 4398.4 |
| 55° | 4317.2 | 4365.2 | 4393.1 | 4418.2 | 4459.6 | 4468.3 | 4491.9 | 4519.8 | 4542.0 | 4598.4 | 4656.4 |
| 57.5° | 4580.3 | 4669.3 | 4712.5 | 4752.4 | 4808.2 | 4829.5 | 4868.7 | 4899.1 | 4927.9 | 4994.7 | 5064.9 |
| 60° | 4742.3 | 4850.8 | 4938.9 | 5001.9 | 5071.8 | 5122.0 | 5181.2 | 5228.8 | 5296.6 | 5376.5 | 5481.2 |
| 62.5° | 4613.5 | 4772.7 | 4889.7 | 4997.8 | 5092.8 | 5188.7 | 5273.7 | 5362.7 | 5465.5 | 5586.5 | 5748.9 |
| 65° | 4100.3 | 4262.4 | 4462.7 | 4574.9 | 4700.6 | 4848.6 | 4977.8 | 5122.0 | 5262.1 | 5438.3 | 5678.4 |
| 67.5° | 3300.9 | 3489.3 | 3714.4 | 3827.6 | 3972.1 | 4137.3 | 4282.1 | 4458.3 | 4622.0 | 4835.4 | 5132.3 |
| 70° | 2379.3 | 2622.9 | 2812.2 | 2930.4 | 3099.1 | 3269.3 | 3409.1 | 3614.1 | 3749.5 | 3968.3 | 4275.2 |
| 72.5° | 1506.6 | 1698.7 | 1930.7 | 2079.6 | 2229.5 | 2401.9 | 2544.8 | 2721.6 | 2848.0 | 3047.3 | 3325.4 |
| 75° | 810.0 | 951.7 | 1155.5 | 1296.9 | 1457.4 | 1604.7 | 1772.1 | 1890.6 | 1984.0 | 2141.7 | 2367.4 |
| 77.5° | 379.6 | 465.8 | 569.0 | 677.7 | 786.5 | 900.0 | 1010.3 | 1106.3 | 1146.4 | 1236.7 | 1369.9 |
| 80° | 230.4 | 258.3 | 288.4 | 321.9 | 367.4 | 404.1 | 452.7 | 487.8 | 490.3 | 518.8 | 559.6 |
| 82.5° | 153.9 | 164.3 | 173.4 | 181.8 | 193.4 | 202.5 | 212.9 | 225.1 | 230.1 | 236.7 | 249.8 |
| 85° | 105.0 | 110.0 | 111.9 | 117.2 | 116.0 | 119.1 | 123.2 | 127.3 | 129.5 | 129.2 | 135.1 |
| 87.5° | 64.6 | 67.1 | 68.3 | 69.6 | 68.7 | 67.4 | 69.3 | 71.5 | 72.1 | 70.2 | 70.8 |
| 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):

| | 71° | 72° | 73° | 74° | 75° | 85° | 90° | 95° | 105° | 115° | 125° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0° | 538.2 | 538.2 | 538.2 | 538.2 | 538.2 | 538.2 | 538.2 | 538.2 | 538.2 | 538.2 | 538.2 |
| 2.5° | 574.6 | 571.8 | 569.0 | 567.1 | 566.5 | 549.8 | 542.6 | 537.9 | 527.9 | 519.8 | 513.2 |
| 5° | 633.9 | 627.9 | 623.2 | 617.6 | 614.4 | 572.4 | 557.1 | 546.4 | 528.8 | 518.5 | 509.1 |
| 7.5° | 729.2 | 712.5 | 702.8 | 691.9 | 682.4 | 606.6 | 581.2 | 564.6 | 540.1 | 526.3 | 515.7 |
| 10° | 837.3 | 820.1 | 804.7 | 787.8 | 773.0 | 652.0 | 615.0 | 589.3 | 557.1 | 539.2 | 525.1 |
| 12.5° | 958.0 | 941.1 | 921.6 | 900.0 | 881.2 | 709.7 | 658.3 | 621.6 | 577.4 | 553.6 | 533.9 |
| 15° | 1100.6 | 1070.8 | 1047.3 | 1022.3 | 1000.3 | 778.7 | 708.8 | 658.0 | 599.1 | 566.8 | 540.4 |
| 17.5° | 1233.2 | 1201.9 | 1169.9 | 1148.0 | 1122.6 | 856.1 | 759.6 | 695.0 | 616.9 | 575.2 | 541.7 |
| 20° | 1362.7 | 1328.5 | 1300.9 | 1271.5 | 1244.8 | 936.4 | 813.8 | 727.6 | 628.5 | 575.5 | 533.9 |
| 22.5° | 1476.8 | 1455.5 | 1424.8 | 1392.8 | 1365.8 | 1016.6 | 864.6 | 755.2 | 632.9 | 568.3 | 520.1 |
| 25° | 1606.6 | 1584.0 | 1546.4 | 1519.4 | 1489.3 | 1098.4 | 914.4 | 776.5 | 630.4 | 554.9 | 498.7 |
| 27.5° | 1745.1 | 1720.1 | 1681.5 | 1653.3 | 1616.9 | 1183.4 | 960.2 | 791.9 | 621.0 | 532.9 | 470.2 |
| 30° | 1889.7 | 1866.8 | 1828.8 | 1800.3 | 1763.6 | 1273.4 | 1011.3 | 802.2 | 602.2 | 502.5 | 437.0 |
| 32.5° | 2044.8 | 2025.7 | 1988.1 | 1958.3 | 1919.1 | 1370.8 | 1058.9 | 805.3 | 573.7 | 466.5 | 401.9 |
| 35° | 2192.2 | 2179.0 | 2147.3 | 2119.4 | 2078.7 | 1463.0 | 1109.4 | 803.8 | 539.8 | 427.0 | 369.9 |
| 37.5° | 2358.0 | 2350.2 | 2334.5 | 2299.1 | 2249.2 | 1588.1 | 1169.9 | 797.2 | 498.4 | 387.8 | 345.5 |
| 40° | 2534.8 | 2535.4 | 2518.5 | 2494.4 | 2448.0 | 1739.8 | 1242.0 | 784.3 | 453.3 | 353.3 | 323.2 |
| 42.5° | 2721.9 | 2731.7 | 2723.5 | 2706.3 | 2661.8 | 1892.8 | 1328.2 | 768.7 | 409.4 | 319.7 | 301.3 |
| 45° | 2936.4 | 2948.3 | 2960.8 | 2935.4 | 2892.2 | 2094.7 | 1441.7 | 748.3 | 362.1 | 291.9 | 286.2 |
| 47.5° | 3183.7 | 3202.5 | 3213.8 | 3214.1 | 3170.9 | 2344.8 | 1626.0 | 736.1 | 320.1 | 273.0 | 279.0 |
| 50° | 3705.6 | 3711.6 | 3738.3 | 3784.6 | 3751.4 | 2923.8 | 1948.0 | 728.5 | 291.5 | 261.4 | 273.7 |
| 52.5° | 4457.7 | 4523.2 | 4569.3 | 4566.2 | 4521.0 | 3291.5 | 2125.4 | 689.7 | 274.6 | 257.1 | 271.2 |
| 55° | 4764.0 | 4845.8 | 4931.0 | 4953.6 | 4918.5 | 3605.3 | 2293.1 | 650.8 | 266.5 | 260.2 | 272.1 |
| 57.5° | 5172.1 | 5310.0 | 5427.0 | 5476.2 | 5425.4 | 4006.9 | 2513.8 | 630.4 | 264.0 | 268.7 | 278.1 |
| 60° | 5648.9 | 5819.4 | 5973.1 | 6061.5 | 6061.5 | 4468.3 | 2742.6 | 621.9 | 260.5 | 281.2 | 288.1 |
| 62.5° | 5955.2 | 6205.7 | 6437.6 | 6567.1 | 6563.3 | 4789.7 | 2844.2 | 593.1 | 252.7 | 290.0 | 301.9 |
| 65° | 5956.4 | 6254.2 | 6549.9 | 6695.3 | 6702.8 | 4750.2 | 2676.5 | 523.8 | 238.2 | 291.2 | 315.7 |
| 67.5° | 5459.9 | 5777.4 | 6122.0 | 6284.7 | 6322.3 | 4372.7 | 2316.9 | 430.7 | 214.7 | 278.7 | 320.7 |
| 70° | 4611.3 | 4921.3 | 5273.0 | 5432.9 | 5499.7 | 3727.6 | 1866.1 | 332.0 | 184.6 | 251.1 | 310.3 |
| 72.5° | 3632.9 | 3937.0 | 4181.8 | 4298.8 | 4350.8 | 2849.2 | 1358.9 | 250.8 | 151.4 | 211.6 | 282.4 |
| 75° | 2572.1 | 2800.3 | 2930.4 | 2956.4 | 2964.6 | 1717.6 | 825.7 | 186.5 | 124.8 | 164.6 | 238.6 |
| 77.5° | 1451.7 | 1549.5 | 1538.9 | 1550.5 | 1453.9 | 663.0 | 359.6 | 133.5 | 102.8 | 125.1 | 185.0 |
| 80° | 566.8 | 584.3 | 548.9 | 537.9 | 493.4 | 246.7 | 158.6 | 93.1 | 82.1 | 94.7 | 129.5 |
| 82.5° | 249.8 | 258.0 | 250.5 | 252.4 | 241.4 | 127.3 | 95.0 | 67.4 | 62.7 | 69.3 | 85.9 |
| 85° | 137.6 | 140.1 | 139.5 | 143.6 | 137.6 | 50.8 | 45.1 | 41.4 | 43.9 | 47.0 | 55.2 |
| 87.5° | 67.1 | 67.7 | 65.5 | 69.0 | 66.8 | 25.7 | 22.3 | 23.5 | 25.7 | 26.3 | 26.3 |
| 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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|-------|-------|-------|-------|-------|-------|-------|
| 0° | 538.2 | 538.2 | 538.2 | 538.2 | 538.2 | 538.2 |
| 2.5° | 508.5 | 506.0 | 506.3 | 505.6 | 504.4 | 504.4 |
| 5° | 504.1 | 501.6 | 501.6 | 500.9 | 499.4 | 499.7 |
| 7.5° | 508.5 | 504.4 | 502.8 | 500.6 | 498.4 | 498.4 |
| 10° | 513.5 | 506.3 | 501.9 | 498.1 | 495.3 | 495.3 |
| 12.5° | 517.2 | 506.0 | 498.7 | 493.7 | 490.9 | 490.9 |
| 15° | 518.5 | 503.8 | 493.7 | 487.8 | 485.3 | 485.0 |
| 17.5° | 514.4 | 495.3 | 483.1 | 476.2 | 473.0 | 472.1 |
| 20° | 501.9 | 479.9 | 465.2 | 457.4 | 453.0 | 451.4 |
| 22.5° | 483.1 | 458.0 | 440.8 | 432.6 | 427.0 | 426.0 |
| 25° | 456.7 | 429.8 | 412.9 | 405.0 | 401.9 | 400.9 |
| 27.5° | 426.0 | 400.9 | 386.5 | 381.5 | 378.7 | 378.4 |
| 30° | 396.9 | 375.5 | 364.9 | 361.1 | 357.7 | 357.1 |
| 32.5° | 369.6 | 356.1 | 352.0 | 346.7 | 338.6 | 337.6 |
| 35° | 350.2 | 348.9 | 346.1 | 334.2 | 324.1 | 321.3 |
| 37.5° | 338.2 | 349.8 | 335.4 | 311.9 | 304.7 | 304.1 |
| 40° | 331.3 | 340.1 | 315.4 | 307.2 | 307.8 | 307.2 |
| 42.5° | 315.7 | 324.8 | 316.0 | 312.2 | 314.7 | 315.4 |
| 45° | 300.0 | 310.0 | 320.7 | 318.2 | 324.1 | 324.1 |
| 47.5° | 291.2 | 306.3 | 320.4 | 320.4 | 329.2 | 332.3 |
| 50° | 281.2 | 303.1 | 315.4 | 319.7 | 326.6 | 324.1 |
| 52.5° | 280.6 | 297.8 | 308.2 | 316.0 | 319.1 | 316.3 |
| 55° | 281.5 | 293.4 | 300.9 | 309.7 | 313.5 | 313.8 |
| 57.5° | 282.8 | 290.9 | 295.9 | 300.0 | 311.3 | 311.3 |
| 60° | 285.9 | 288.7 | 291.5 | 293.7 | 308.5 | 308.8 |
| 62.5° | 290.9 | 286.5 | 285.9 | 288.1 | 306.9 | 305.6 |
| 65° | 298.7 | 283.4 | 278.7 | 280.9 | 305.3 | 301.6 |
| 67.5° | 309.4 | 278.7 | 269.6 | 271.2 | 304.1 | 295.9 |
| 70° | 319.1 | 271.2 | 258.3 | 256.7 | 292.2 | 277.7 |
| 72.5° | 320.1 | 262.4 | 242.6 | 237.9 | 253.9 | 240.1 |
| 75° | 304.4 | 256.4 | 225.4 | 211.6 | 209.7 | 207.8 |
| 77.5° | 274.3 | 253.0 | 205.3 | 183.7 | 179.9 | 181.2 |
| 80° | 229.5 | 240.1 | 181.2 | 155.5 | 175.9 | 173.7 |
| 82.5° | 171.5 | 211.9 | 153.9 | 137.6 | 137.3 | 121.3 |
| 85° | 95.3 | 165.2 | 125.4 | 103.1 | 71.8 | 69.6 |
| 87.5° | 26.6 | 91.8 | 87.8 | 58.3 | 39.8 | 41.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)