

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: P270002

Luminaire Tested: **GPC-AF-02-LED-E1-5MQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-E1-5MQ-7027-600
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7470.1 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

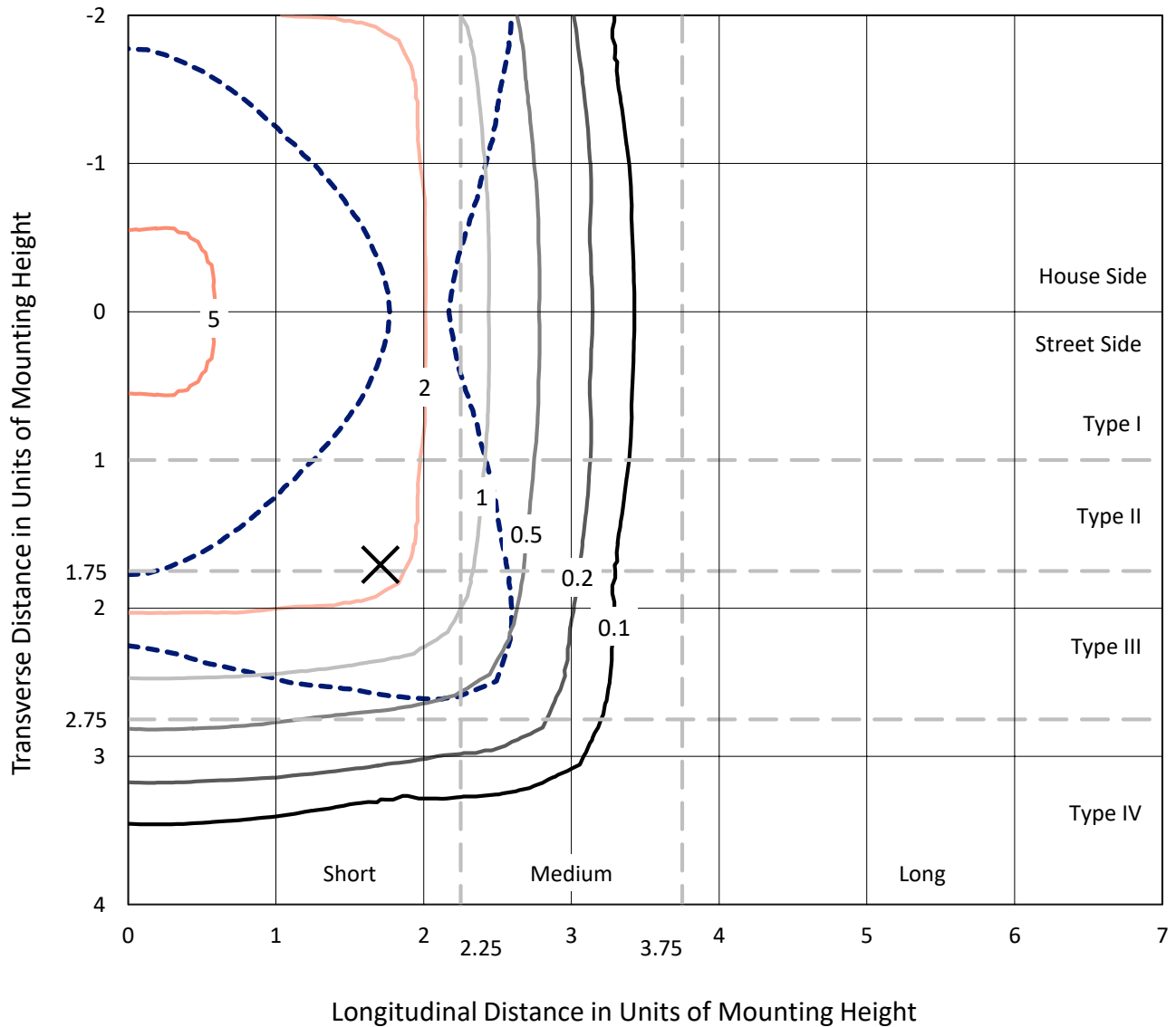
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

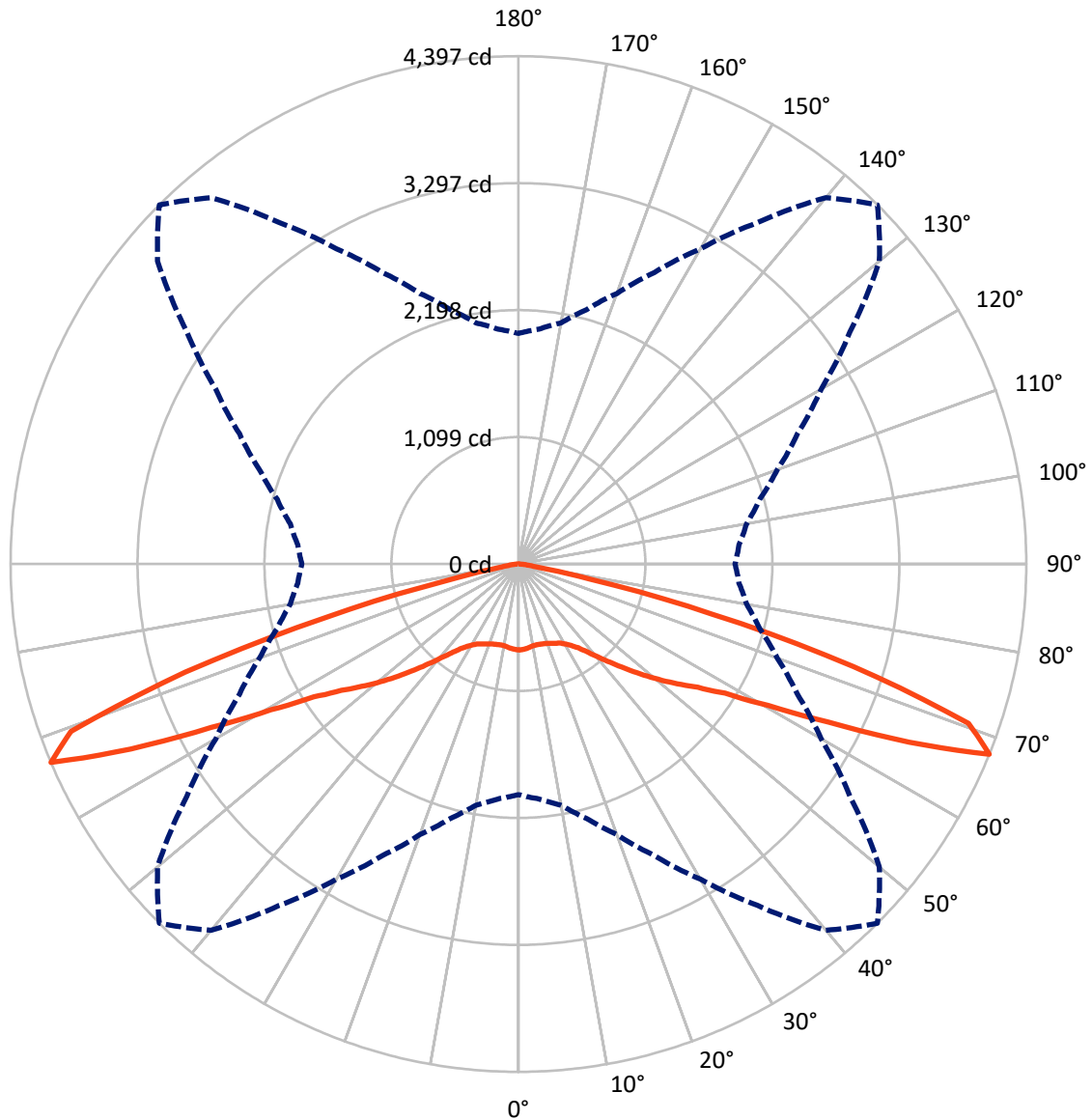
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3735.1 | 0.0 | 3735.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3735.1 | 0.0 | 3735.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7470.1 | 0.0 | 7470.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 69.7 | 0.9 |
| 10°-20° | 202.2 | 2.7 |
| 20°-30° | 343.7 | 4.6 |
| 30°-40° | 561.9 | 7.5 |
| 40°-50° | 1003.0 | 13.4 |
| 50°-60° | 1691.1 | 22.6 |
| 60°-70° | 2624.3 | 35.1 |
| 70°-80° | 922.1 | 12.3 |
| 80°-90° | 52.1 | 0.7 |
| 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° | 7470.1 | 100.0 |
| 0°-180° | 7470.1 | 100.0 |



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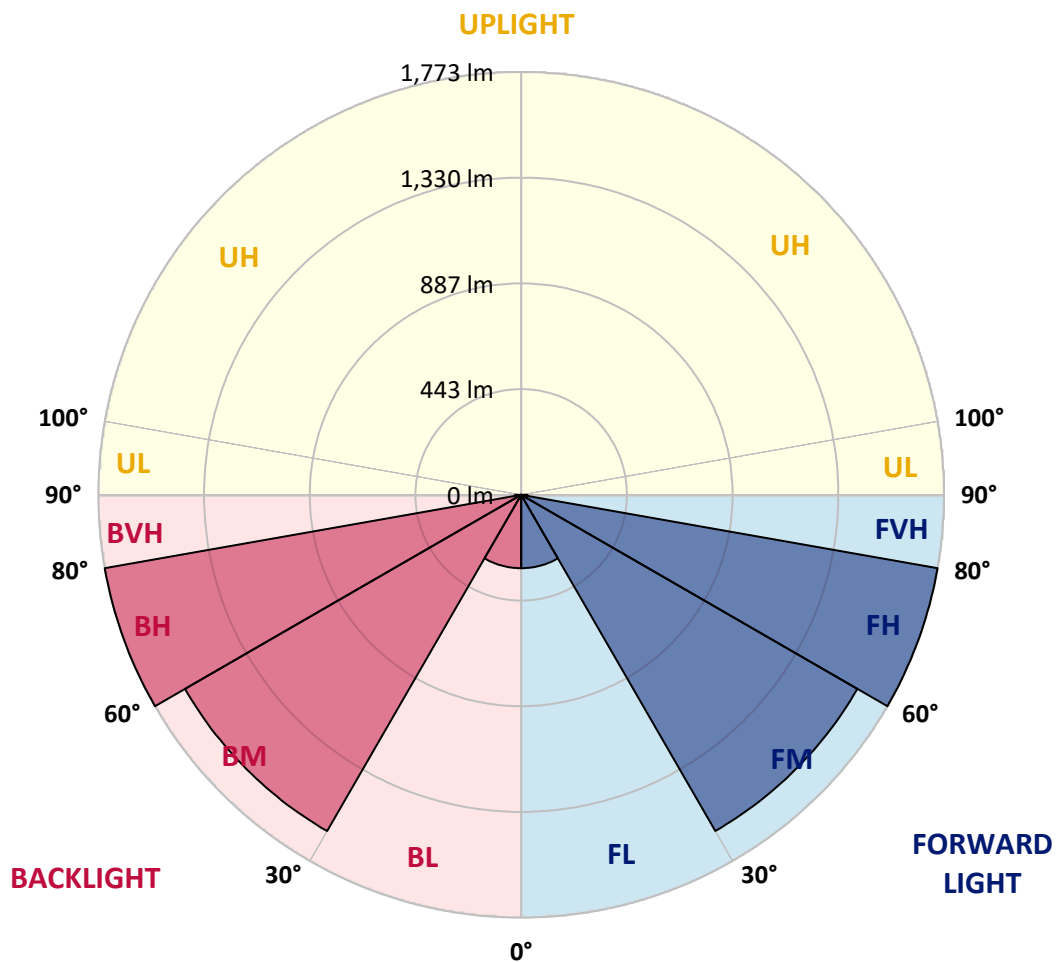
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 307.8 | 4.1 | | | |
| FM | (30°-60°) | 1628.0 | 21.8 | | | |
| FH | (60°-80°) | 1773.2 | 23.7 | | | G1/1800 |
| FVH | (80°-90°) | 26.1 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 307.8 | 4.1 | B1/500 | | |
| BM | (30°-60°) | 1628.0 | 21.8 | B2/2500 | | |
| BH | (60°-80°) | 1773.2 | 23.7 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 26.1 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 744.4 | 744.4 | 744.4 | 744.4 | 744.4 | 744.4 | 744.4 | 744.4 | 744.4 | 744.4 | 744.4 |
| 2.5° | 741.7 | 742.4 | 742.4 | 742.4 | 742.0 | 742.0 | 741.3 | 742.0 | 741.7 | 740.7 | 741.0 |
| 5° | 735.5 | 736.3 | 736.3 | 735.8 | 736.9 | 736.5 | 735.5 | 736.3 | 735.8 | 735.2 | 735.5 |
| 7.5° | 726.5 | 727.5 | 727.5 | 727.3 | 728.3 | 727.9 | 727.3 | 727.5 | 727.5 | 726.5 | 726.5 |
| 10° | 716.6 | 717.2 | 717.2 | 716.9 | 718.6 | 718.6 | 718.4 | 719.4 | 719.7 | 718.6 | 717.9 |
| 12.5° | 707.3 | 708.4 | 708.4 | 709.8 | 711.5 | 712.1 | 713.9 | 715.2 | 716.6 | 716.3 | 715.0 |
| 15° | 701.8 | 702.6 | 703.9 | 705.6 | 708.4 | 710.7 | 713.6 | 716.6 | 719.4 | 720.0 | 717.9 |
| 17.5° | 698.4 | 699.4 | 701.4 | 703.9 | 707.7 | 711.7 | 715.9 | 720.0 | 723.9 | 725.2 | 722.7 |
| 20° | 697.4 | 698.1 | 700.0 | 704.2 | 709.4 | 715.6 | 721.3 | 726.2 | 731.4 | 733.0 | 731.4 |
| 22.5° | 699.4 | 700.8 | 703.3 | 708.0 | 715.0 | 722.7 | 729.7 | 736.3 | 742.7 | 745.9 | 743.3 |
| 25° | 708.8 | 710.1 | 713.2 | 719.4 | 726.9 | 735.2 | 743.1 | 750.7 | 756.5 | 759.5 | 757.8 |
| 27.5° | 725.9 | 727.5 | 731.4 | 737.6 | 745.9 | 754.8 | 763.3 | 769.5 | 774.2 | 775.3 | 773.4 |
| 30° | 751.6 | 755.5 | 759.8 | 766.8 | 776.3 | 784.0 | 792.6 | 798.1 | 803.9 | 803.9 | 802.1 |
| 32.5° | 791.9 | 795.5 | 800.4 | 806.9 | 814.6 | 822.8 | 830.4 | 835.2 | 841.4 | 841.6 | 837.5 |
| 35° | 852.0 | 853.7 | 857.8 | 862.0 | 868.8 | 875.9 | 882.6 | 885.5 | 890.8 | 891.1 | 887.3 |
| 37.5° | 931.4 | 931.6 | 934.3 | 935.8 | 942.0 | 949.9 | 956.1 | 958.1 | 963.0 | 962.3 | 958.4 |
| 40° | 1023.7 | 1025.4 | 1026.5 | 1028.5 | 1035.0 | 1042.7 | 1049.1 | 1050.2 | 1055.2 | 1054.3 | 1049.5 |
| 42.5° | 1130.5 | 1131.2 | 1137.1 | 1140.2 | 1146.3 | 1150.1 | 1158.4 | 1159.4 | 1165.6 | 1162.9 | 1157.3 |
| 45° | 1250.4 | 1256.5 | 1262.1 | 1268.2 | 1274.9 | 1279.2 | 1285.8 | 1284.4 | 1288.6 | 1284.4 | 1281.3 |
| 47.5° | 1376.6 | 1381.0 | 1393.4 | 1403.0 | 1413.7 | 1417.3 | 1426.7 | 1422.6 | 1426.7 | 1420.8 | 1419.9 |
| 50° | 1515.4 | 1523.2 | 1533.9 | 1544.8 | 1556.1 | 1562.3 | 1574.4 | 1569.2 | 1574.6 | 1569.2 | 1566.1 |
| 52.5° | 1652.1 | 1654.0 | 1677.5 | 1693.6 | 1709.4 | 1716.7 | 1723.8 | 1721.4 | 1721.7 | 1721.4 | 1718.3 |
| 55° | 1781.9 | 1786.6 | 1810.1 | 1832.1 | 1859.5 | 1879.8 | 1892.1 | 1890.8 | 1887.7 | 1884.6 | 1879.4 |
| 57.5° | 1928.2 | 1933.1 | 1959.8 | 1987.0 | 2018.2 | 2047.1 | 2072.2 | 2097.9 | 2108.0 | 2110.7 | 2099.2 |
| 60° | 2126.1 | 2125.7 | 2161.5 | 2194.5 | 2239.1 | 2282.1 | 2337.0 | 2393.1 | 2457.3 | 2487.1 | 2447.6 |
| 62.5° | 2327.4 | 2335.7 | 2387.2 | 2445.5 | 2537.6 | 2627.4 | 2728.6 | 2828.3 | 2929.9 | 3012.7 | 2924.8 |
| 65° | 2303.3 | 2335.0 | 2411.6 | 2543.8 | 2713.9 | 2915.9 | 3134.4 | 3365.5 | 3574.4 | 3717.9 | 3556.8 |
| 67.5° | 1996.3 | 2041.3 | 2119.2 | 2280.0 | 2492.6 | 2783.9 | 3150.9 | 3608.0 | 4139.5 | 4396.5 | 4077.9 |
| 70° | 1446.9 | 1497.7 | 1579.5 | 1736.6 | 1947.0 | 2224.1 | 2622.5 | 3171.5 | 3875.0 | 4134.0 | 3783.2 |
| 72.5° | 720.0 | 747.5 | 798.1 | 897.9 | 1057.3 | 1282.1 | 1643.4 | 2171.2 | 2793.5 | 3031.3 | 2710.7 |
| 75° | 244.6 | 257.4 | 265.9 | 298.5 | 349.0 | 437.4 | 617.0 | 949.1 | 1448.0 | 1735.9 | 1427.3 |
| 77.5° | 141.3 | 141.6 | 147.4 | 153.3 | 161.9 | 171.4 | 195.6 | 256.6 | 443.9 | 630.4 | 459.4 |
| 80° | 91.4 | 91.1 | 95.8 | 100.3 | 106.2 | 111.0 | 112.4 | 118.8 | 137.1 | 162.6 | 145.3 |
| 82.5° | 47.4 | 53.3 | 63.9 | 69.8 | 80.8 | 82.9 | 80.0 | 77.7 | 82.1 | 85.2 | 87.2 |
| 85° | 26.1 | 22.6 | 34.0 | 43.9 | 48.8 | 49.4 | 49.4 | 46.7 | 48.5 | 47.4 | 51.6 |
| 87.5° | 12.0 | 11.0 | 13.5 | 21.6 | 23.0 | 19.7 | 20.7 | 18.2 | 13.0 | 12.8 | 14.5 |
| 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° | 744.4 | 744.4 | 744.4 | 744.4 | 744.4 | 744.4 | 744.4 | 744.4 |
| 2.5° | 741.0 | 741.3 | 741.3 | 742.4 | 742.7 | 743.3 | 744.1 | 744.4 |
| 5° | 735.2 | 736.3 | 735.5 | 736.5 | 736.5 | 737.1 | 737.1 | 737.6 |
| 7.5° | 726.5 | 727.5 | 727.5 | 727.5 | 727.3 | 728.3 | 728.3 | 728.3 |
| 10° | 717.7 | 718.4 | 717.9 | 717.2 | 716.6 | 717.7 | 717.2 | 716.9 |
| 12.5° | 715.0 | 713.2 | 711.7 | 711.1 | 709.8 | 710.1 | 709.0 | 709.0 |
| 15° | 716.6 | 713.6 | 711.1 | 710.1 | 708.8 | 708.0 | 707.3 | 707.7 |
| 17.5° | 721.1 | 717.2 | 714.2 | 712.4 | 710.7 | 709.8 | 708.4 | 708.8 |
| 20° | 729.0 | 724.6 | 720.0 | 716.6 | 713.6 | 711.7 | 710.7 | 710.4 |
| 22.5° | 740.7 | 734.2 | 727.5 | 722.4 | 718.4 | 715.9 | 715.0 | 714.2 |
| 25° | 754.0 | 746.9 | 739.2 | 733.5 | 729.3 | 726.2 | 724.2 | 724.2 |
| 27.5° | 770.8 | 765.0 | 758.2 | 751.3 | 747.5 | 744.4 | 743.1 | 742.4 |
| 30° | 799.0 | 793.6 | 788.1 | 781.5 | 776.8 | 773.6 | 771.3 | 769.2 |
| 32.5° | 835.2 | 830.7 | 826.3 | 821.4 | 816.9 | 812.7 | 809.1 | 807.2 |
| 35° | 886.0 | 882.6 | 879.4 | 874.0 | 872.3 | 869.7 | 867.8 | 866.1 |
| 37.5° | 956.1 | 954.7 | 954.7 | 948.8 | 947.4 | 946.5 | 944.4 | 944.7 |
| 40° | 1048.1 | 1049.5 | 1047.8 | 1045.6 | 1044.6 | 1041.9 | 1041.9 | 1044.3 |
| 42.5° | 1156.9 | 1158.0 | 1161.8 | 1158.4 | 1162.1 | 1158.8 | 1156.7 | 1158.4 |
| 45° | 1283.4 | 1287.2 | 1294.7 | 1291.4 | 1293.6 | 1287.9 | 1280.7 | 1281.1 |
| 47.5° | 1425.3 | 1428.8 | 1431.8 | 1429.5 | 1429.7 | 1420.1 | 1410.5 | 1408.2 |
| 50° | 1572.7 | 1574.0 | 1575.7 | 1572.4 | 1573.0 | 1562.3 | 1551.4 | 1551.7 |
| 52.5° | 1718.3 | 1724.8 | 1731.8 | 1722.4 | 1720.3 | 1708.3 | 1692.9 | 1686.7 |
| 55° | 1885.0 | 1894.2 | 1886.4 | 1870.1 | 1854.0 | 1837.8 | 1817.6 | 1814.1 |
| 57.5° | 2090.4 | 2074.5 | 2049.8 | 2019.2 | 1996.9 | 1974.3 | 1953.6 | 1945.0 |
| 60° | 2376.1 | 2316.8 | 2272.2 | 2226.8 | 2198.2 | 2170.5 | 2143.3 | 2139.1 |
| 62.5° | 2780.2 | 2677.5 | 2588.5 | 2494.8 | 2418.1 | 2358.3 | 2310.6 | 2297.1 |
| 65° | 3286.4 | 3043.6 | 2833.1 | 2636.5 | 2465.8 | 2337.0 | 2256.0 | 2220.3 |
| 67.5° | 3504.3 | 3024.8 | 2663.7 | 2384.8 | 2161.5 | 2005.5 | 1917.9 | 1874.3 |
| 70° | 3079.4 | 2508.4 | 2115.8 | 1836.5 | 1633.1 | 1466.8 | 1387.5 | 1340.8 |
| 72.5° | 2118.6 | 1595.7 | 1261.8 | 1029.8 | 867.5 | 728.3 | 673.3 | 669.1 |
| 75° | 951.2 | 630.0 | 434.2 | 334.6 | 281.7 | 245.0 | 233.6 | 225.0 |
| 77.5° | 266.3 | 196.9 | 175.6 | 164.2 | 153.3 | 140.6 | 135.7 | 136.7 |
| 80° | 129.5 | 122.3 | 117.5 | 110.3 | 100.3 | 89.7 | 84.9 | 87.0 |
| 82.5° | 85.9 | 84.9 | 87.9 | 82.9 | 68.5 | 58.1 | 48.8 | 44.6 |
| 85° | 52.2 | 52.9 | 54.0 | 54.3 | 46.1 | 32.2 | 22.0 | 24.8 |
| 87.5° | 20.7 | 23.7 | 25.8 | 26.8 | 25.2 | 15.5 | 12.3 | 12.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)