

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: P269747

Luminaire Tested: **GLEON-AF-10-LED-E1-T3-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269747
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: GLEON-AF-10-LED-E1-T3-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41365.5 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 419
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

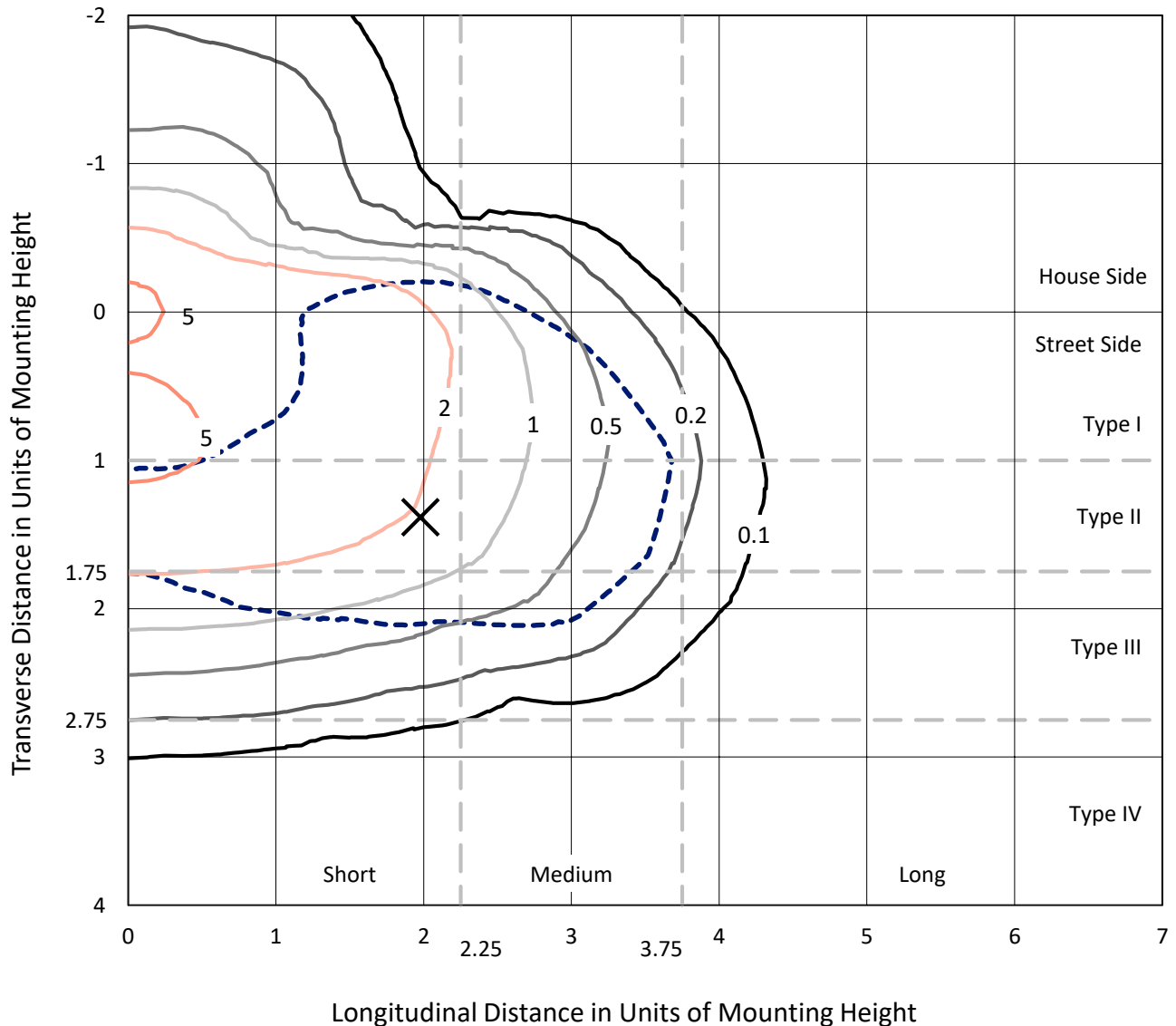


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Iso-Footcandle Lines of Horizontal Illumination

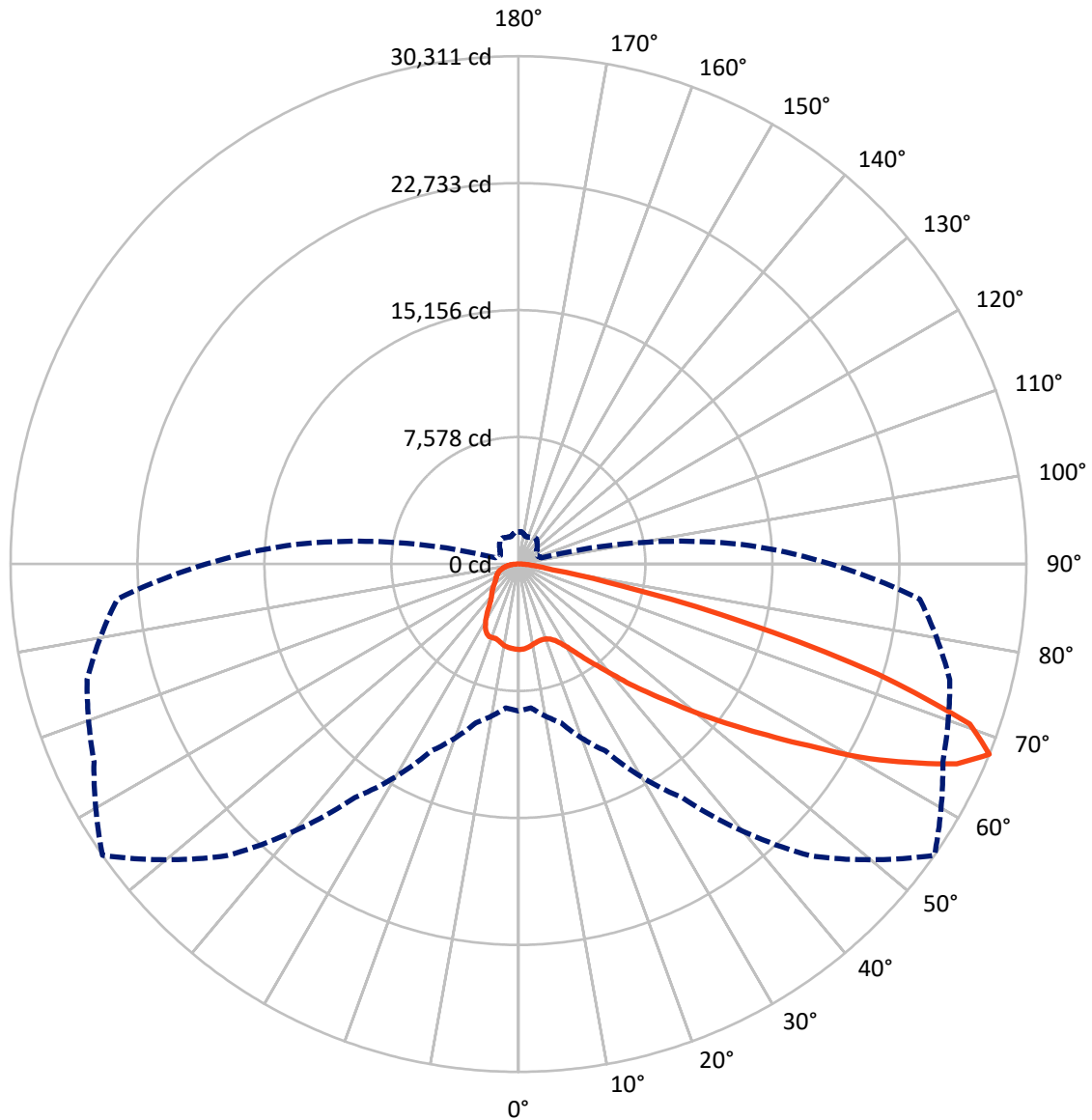
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 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 | 8935.8 | 0.0 | 8935.8 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 32429.7 | 0.0 | 32429.7 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 41365.5 | 0.0 | 41365.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 476.1 | 1.2 |
| 10°-20° | 1348.4 | 3.3 |
| 20°-30° | 2258.8 | 5.5 |
| 30°-40° | 3714.4 | 9.0 |
| 40°-50° | 6252.4 | 15.1 |
| 50°-60° | 9840.8 | 23.8 |
| 60°-70° | 11744.0 | 28.4 |
| 70°-80° | 5043.1 | 12.2 |
| 80°-90° | 687.6 | 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° | 41365.5 | 100.0 |
| 0°-180° | 41365.5 | 100.0 |

Coefficient of Utilization



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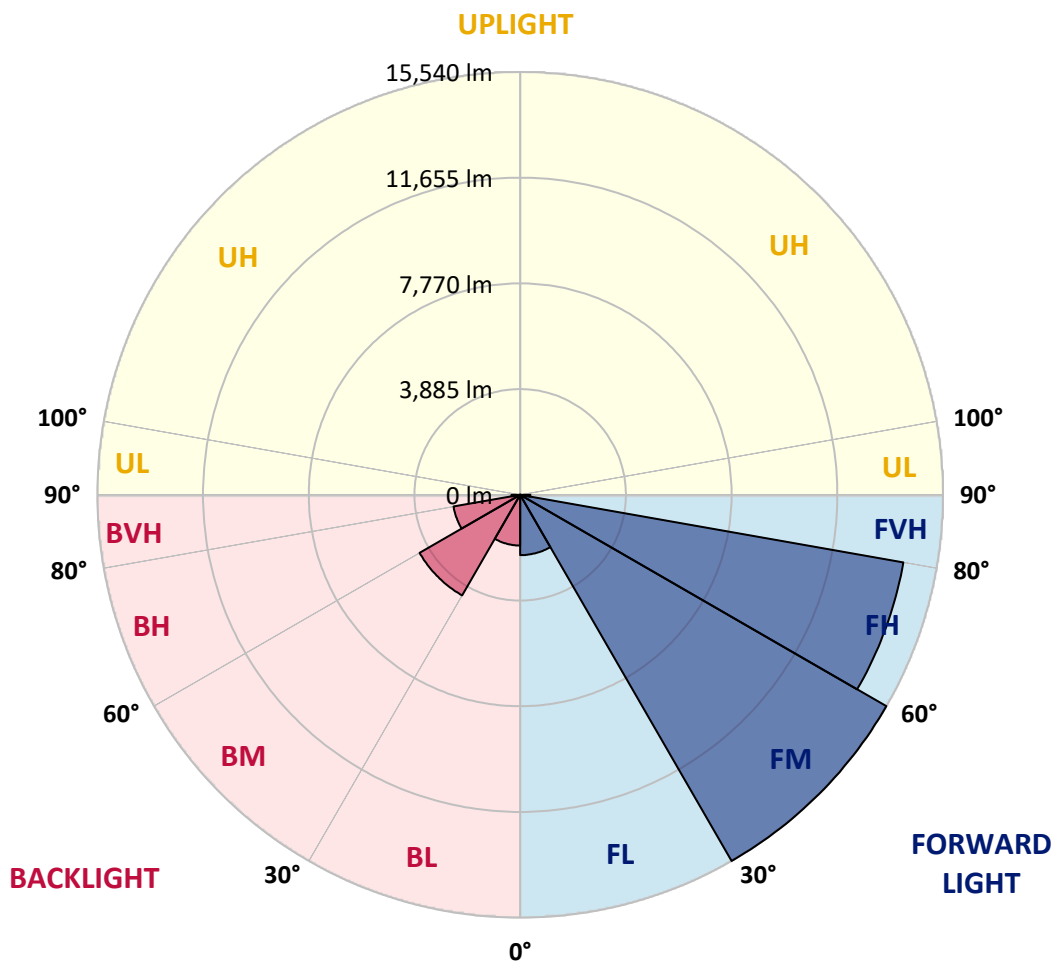
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2217.3 | 5.4 | | | |
| FM | (30°-60°) | 15540.0 | 37.6 | | | |
| FH | (60°-80°) | 14300.3 | 34.6 | | | G5 |
| FVH | (80°-90°) | 372.2 | 0.9 | | | G3/500 |
| BL | (0°-30°) | 1866.0 | 4.5 | B3/2500 | | |
| BM | (30°-60°) | 4267.7 | 10.3 | B3/5000 | | |
| BH | (60°-80°) | 2486.8 | 6.0 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 315.4 | 0.8 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5100.8 | 5100.8 | 5100.8 | 5100.8 | 5100.8 | 5100.8 | 5100.8 | 5100.8 | 5100.8 | 5100.8 | 5100.8 |
| 2.5° | 5056.9 | 5058.9 | 5062.8 | 5078.8 | 5092.9 | 5088.8 | 5090.9 | 5082.8 | 5080.9 | 5068.9 | 5080.9 |
| 5° | 4992.9 | 4998.9 | 5001.0 | 5026.8 | 5042.8 | 5046.9 | 5040.8 | 5030.9 | 5018.9 | 5007.0 | 5012.9 |
| 7.5° | 4847.1 | 4863.1 | 4865.1 | 4901.1 | 4927.1 | 4961.0 | 4963.0 | 4964.9 | 4959.0 | 4951.0 | 4963.0 |
| 10° | 4755.2 | 4759.2 | 4757.2 | 4783.1 | 4803.1 | 4841.1 | 4863.1 | 4901.1 | 4917.1 | 4921.1 | 4929.0 |
| 12.5° | 4749.2 | 4745.1 | 4739.2 | 4739.2 | 4733.2 | 4749.2 | 4789.1 | 4843.1 | 4881.0 | 4893.1 | 4902.9 |
| 15° | 4813.1 | 4811.1 | 4791.1 | 4761.1 | 4723.2 | 4711.3 | 4745.1 | 4805.2 | 4855.1 | 4881.0 | 4891.0 |
| 17.5° | 4956.9 | 4945.0 | 4913.0 | 4845.1 | 4763.2 | 4731.3 | 4735.1 | 4785.1 | 4843.1 | 4877.1 | 4887.0 |
| 20° | 5220.7 | 5220.7 | 5152.8 | 5024.8 | 4879.1 | 4803.1 | 4767.1 | 4797.0 | 4853.1 | 4899.0 | 4913.0 |
| 22.5° | 5676.2 | 5680.3 | 5566.3 | 5356.6 | 5110.7 | 4949.0 | 4859.0 | 4853.1 | 4918.9 | 4971.0 | 4986.9 |
| 25° | 6321.6 | 6305.7 | 6145.8 | 5846.1 | 5472.5 | 5204.7 | 5048.8 | 5012.9 | 5068.9 | 5126.7 | 5146.7 |
| 27.5° | 7072.9 | 7014.9 | 6825.1 | 6463.5 | 5979.9 | 5588.4 | 5348.6 | 5290.7 | 5344.6 | 5410.5 | 5430.4 |
| 30° | 7816.1 | 7756.1 | 7530.3 | 7134.8 | 6597.3 | 6101.7 | 5758.1 | 5664.3 | 5740.2 | 5834.1 | 5846.1 |
| 32.5° | 8559.3 | 8559.3 | 8307.5 | 7846.1 | 7260.6 | 6715.2 | 6303.5 | 6191.7 | 6317.6 | 6431.4 | 6457.5 |
| 35° | 9448.5 | 9452.3 | 9208.6 | 8653.3 | 8023.8 | 7446.4 | 6992.9 | 6911.0 | 7100.8 | 7180.7 | 7242.7 |
| 37.5° | 10541.3 | 10563.3 | 10249.7 | 9578.3 | 8889.0 | 8281.6 | 7742.1 | 7630.3 | 7820.0 | 8037.9 | 8237.6 |
| 40° | 11722.2 | 11750.1 | 11404.4 | 10577.3 | 9888.0 | 9252.6 | 8669.3 | 8467.5 | 8783.1 | 9198.6 | 9456.4 |
| 42.5° | 12848.9 | 12992.8 | 12659.2 | 11808.0 | 11066.8 | 10409.4 | 9818.0 | 9524.3 | 9920.0 | 10547.3 | 10771.0 |
| 45° | 14477.4 | 14581.2 | 13999.7 | 13228.6 | 12531.3 | 11796.1 | 11012.9 | 10703.1 | 11256.7 | 12047.8 | 12093.7 |
| 47.5° | 15562.1 | 15484.3 | 15188.6 | 14709.0 | 14267.5 | 13580.1 | 12401.5 | 12061.7 | 12797.1 | 13728.1 | 13470.4 |
| 50° | 16139.6 | 16163.7 | 16123.6 | 16151.5 | 16167.5 | 15736.0 | 14103.7 | 13638.2 | 14515.3 | 15640.1 | 15046.7 |
| 52.5° | 16679.1 | 16519.2 | 16651.2 | 17306.4 | 18097.7 | 17937.7 | 15955.9 | 15470.3 | 16357.3 | 17761.9 | 16713.1 |
| 55° | 16667.1 | 16423.4 | 16852.9 | 18009.7 | 19726.1 | 19909.8 | 18035.7 | 17476.3 | 18305.4 | 20037.7 | 18479.3 |
| 57.5° | 16077.7 | 16089.6 | 16751.0 | 18265.4 | 20860.8 | 21763.9 | 20449.2 | 19610.1 | 20371.4 | 22343.4 | 20091.6 |
| 60° | 15266.4 | 15376.4 | 16329.4 | 18223.5 | 21769.9 | 23284.3 | 23410.2 | 21909.8 | 22395.3 | 24439.2 | 21426.3 |
| 62.5° | 13957.9 | 14073.7 | 15388.3 | 17788.0 | 21632.1 | 24748.8 | 26087.5 | 24519.1 | 24511.2 | 25709.9 | 21817.9 |
| 65° | 11893.9 | 11860.0 | 13240.6 | 16159.6 | 20475.2 | 25831.8 | 28746.8 | 26774.8 | 26105.5 | 25729.9 | 21030.6 |
| 67.5° | 8771.1 | 8619.2 | 9804.0 | 12307.5 | 17018.7 | 24618.9 | 30311.1 | 27949.7 | 26648.8 | 24037.6 | 18625.1 |
| 70° | 4551.4 | 4399.4 | 5358.6 | 7186.7 | 11192.6 | 19214.4 | 28578.9 | 27342.3 | 25448.2 | 20149.5 | 14591.2 |
| 72.5° | 1946.0 | 1920.0 | 2309.6 | 3152.8 | 5414.5 | 11082.7 | 22409.3 | 23665.9 | 21835.8 | 15012.7 | 10031.8 |
| 75° | 1308.7 | 1300.7 | 1446.5 | 1718.3 | 2435.6 | 4497.5 | 14023.8 | 16798.9 | 15975.7 | 9308.5 | 5642.3 |
| 77.5° | 1026.9 | 1017.1 | 1102.8 | 1234.7 | 1578.4 | 1774.2 | 6223.6 | 9018.9 | 8347.5 | 4051.9 | 2469.5 |
| 80° | 803.2 | 795.2 | 849.2 | 921.0 | 1134.9 | 1118.8 | 2048.0 | 3588.4 | 2777.2 | 1552.5 | 1200.8 |
| 82.5° | 633.3 | 633.3 | 677.3 | 679.3 | 805.2 | 763.2 | 1069.0 | 1580.4 | 1386.7 | 905.1 | 735.3 |
| 85° | 579.3 | 579.3 | 625.4 | 507.5 | 525.5 | 481.5 | 663.3 | 937.0 | 879.1 | 371.5 | 319.6 |
| 87.5° | 291.7 | 283.8 | 525.5 | 449.5 | 285.8 | 255.7 | 323.7 | 453.6 | 487.5 | 205.8 | 159.9 |
| 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° | 5100.8 | 5100.8 | 5100.8 | 5100.8 | 5100.8 | 5100.8 | 5100.8 | 5100.8 | 5100.8 | 5100.8 |
| 2.5° | 5076.9 | 5074.9 | 5078.8 | 5080.9 | 5096.9 | 5118.8 | 5128.9 | 5142.7 | 5150.8 | 5146.7 |
| 5° | 5016.9 | 5020.8 | 5036.8 | 5048.8 | 5076.9 | 5112.9 | 5132.7 | 5148.7 | 5162.7 | 5156.8 |
| 7.5° | 4967.0 | 4977.0 | 5001.0 | 5010.9 | 5026.8 | 5036.8 | 5034.9 | 5040.8 | 5052.8 | 5039.0 |
| 10° | 4939.1 | 4951.0 | 4969.0 | 4955.1 | 4917.1 | 4863.1 | 4813.1 | 4787.2 | 4795.2 | 4785.1 |
| 12.5° | 4911.0 | 4927.1 | 4913.0 | 4847.1 | 4741.2 | 4671.2 | 4633.3 | 4637.3 | 4655.2 | 4659.2 |
| 15° | 4895.0 | 4901.1 | 4841.1 | 4717.2 | 4609.4 | 4599.3 | 4619.4 | 4615.3 | 4617.3 | 4617.3 |
| 17.5° | 4895.0 | 4879.1 | 4767.1 | 4643.2 | 4597.3 | 4579.4 | 4517.3 | 4439.6 | 4405.5 | 4393.5 |
| 20° | 4921.1 | 4879.1 | 4743.2 | 4661.2 | 4561.4 | 4407.5 | 4243.8 | 4099.9 | 4035.9 | 4017.8 |
| 22.5° | 4998.9 | 4927.1 | 4811.1 | 4669.3 | 4385.5 | 4127.8 | 3868.1 | 3696.3 | 3580.4 | 3560.4 |
| 25° | 5156.8 | 5076.9 | 4945.0 | 4563.4 | 4105.9 | 3738.1 | 3442.6 | 3250.6 | 3134.8 | 3118.8 |
| 27.5° | 5432.5 | 5380.6 | 5016.9 | 4329.7 | 3734.3 | 3340.5 | 3067.0 | 2919.0 | 2833.2 | 2827.1 |
| 30° | 5848.1 | 5822.1 | 4980.9 | 3984.0 | 3276.7 | 2955.1 | 2823.2 | 2737.2 | 2673.3 | 2671.3 |
| 32.5° | 6511.4 | 6301.6 | 4863.1 | 3562.4 | 2859.0 | 2681.4 | 2627.4 | 2575.4 | 2525.4 | 2525.4 |
| 35° | 7364.6 | 6689.1 | 4639.2 | 3110.8 | 2605.4 | 2529.4 | 2461.4 | 2379.6 | 2313.7 | 2309.6 |
| 37.5° | 8367.5 | 6928.9 | 4237.8 | 2747.1 | 2485.5 | 2427.5 | 2327.7 | 2205.8 | 2089.8 | 2070.0 |
| 40° | 9380.6 | 7000.9 | 3672.4 | 2523.3 | 2409.6 | 2325.6 | 2203.7 | 2060.0 | 1948.1 | 1942.0 |
| 42.5° | 10309.6 | 6863.1 | 3072.9 | 2369.5 | 2333.6 | 2221.8 | 2093.9 | 1966.0 | 1878.0 | 1876.1 |
| 45° | 11088.8 | 6505.3 | 2569.4 | 2223.8 | 2253.7 | 2127.8 | 2014.0 | 1910.1 | 1842.2 | 1828.1 |
| 47.5° | 11822.1 | 5999.9 | 2215.8 | 2070.0 | 2173.8 | 2076.0 | 1980.0 | 1882.0 | 1816.2 | 1806.1 |
| 50° | 12673.1 | 5454.5 | 1967.9 | 1920.0 | 2103.9 | 2057.8 | 2007.9 | 1906.1 | 1796.3 | 1784.3 |
| 52.5° | 13704.2 | 4983.0 | 1774.2 | 1788.2 | 2049.9 | 2081.9 | 2079.8 | 1973.9 | 1782.1 | 1766.2 |
| 55° | 14854.9 | 4459.5 | 1628.4 | 1680.3 | 2028.0 | 2125.8 | 2097.9 | 2038.0 | 1794.2 | 1770.2 |
| 57.5° | 15987.8 | 3848.1 | 1526.5 | 1598.4 | 1995.9 | 2121.8 | 2011.9 | 1926.1 | 1822.1 | 1788.2 |
| 60° | 16836.9 | 3026.8 | 1448.5 | 1526.5 | 1926.1 | 2056.0 | 1918.1 | 1804.2 | 1816.2 | 1790.2 |
| 62.5° | 16892.8 | 2339.6 | 1354.6 | 1464.4 | 1820.1 | 1989.9 | 1856.1 | 1750.2 | 1842.2 | 1818.2 |
| 65° | 15899.9 | 1768.3 | 1264.8 | 1390.5 | 1706.3 | 1948.1 | 1796.3 | 1720.3 | 1896.1 | 1870.1 |
| 67.5° | 13386.5 | 1422.6 | 1188.7 | 1314.7 | 1592.3 | 1860.1 | 1742.3 | 1692.2 | 1944.0 | 1898.1 |
| 70° | 9664.1 | 1212.8 | 1114.8 | 1222.8 | 1490.5 | 1760.1 | 1694.3 | 1642.3 | 1814.1 | 1742.3 |
| 72.5° | 5950.0 | 1050.9 | 1031.0 | 1101.0 | 1412.6 | 1656.4 | 1622.3 | 1548.4 | 1634.3 | 1576.3 |
| 75° | 2971.0 | 911.2 | 937.0 | 980.9 | 1302.7 | 1538.4 | 1502.4 | 1428.6 | 1440.5 | 1428.6 |
| 77.5° | 1422.6 | 779.2 | 827.2 | 861.1 | 1160.8 | 1404.6 | 1366.6 | 1290.7 | 1276.8 | 1278.6 |
| 80° | 901.1 | 651.4 | 697.3 | 721.2 | 1037.0 | 1248.7 | 1210.7 | 1134.9 | 1294.6 | 1200.8 |
| 82.5° | 563.4 | 529.6 | 541.5 | 585.4 | 903.1 | 1086.9 | 1037.0 | 969.0 | 1166.8 | 923.1 |
| 85° | 311.7 | 369.7 | 385.6 | 423.6 | 695.3 | 909.1 | 859.0 | 773.3 | 693.3 | 681.4 |
| 87.5° | 185.8 | 219.7 | 225.7 | 253.7 | 467.5 | 657.3 | 581.5 | 551.4 | 457.5 | 455.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)