

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: P269694

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
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-AFL-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34599.2 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 323
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

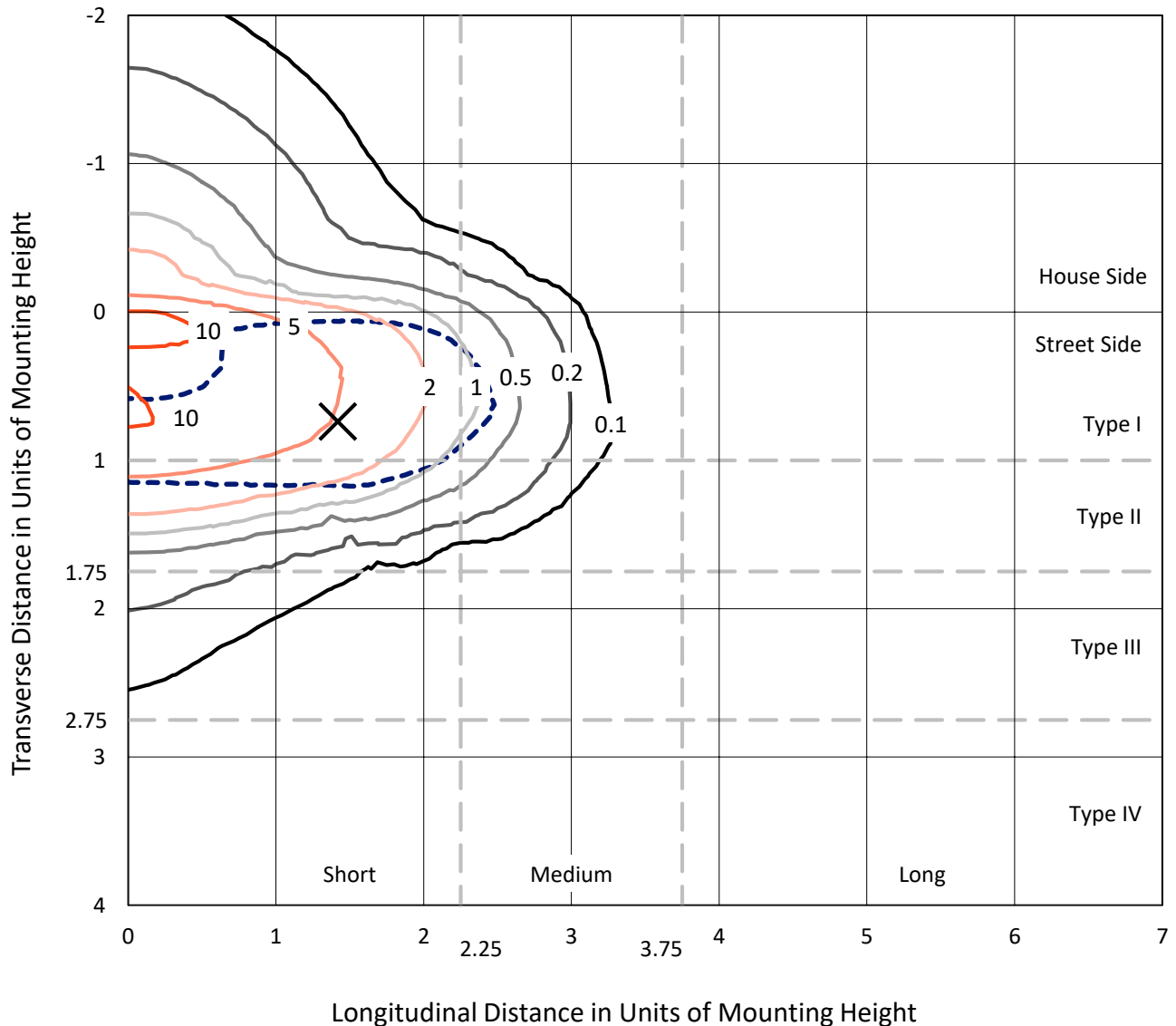


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

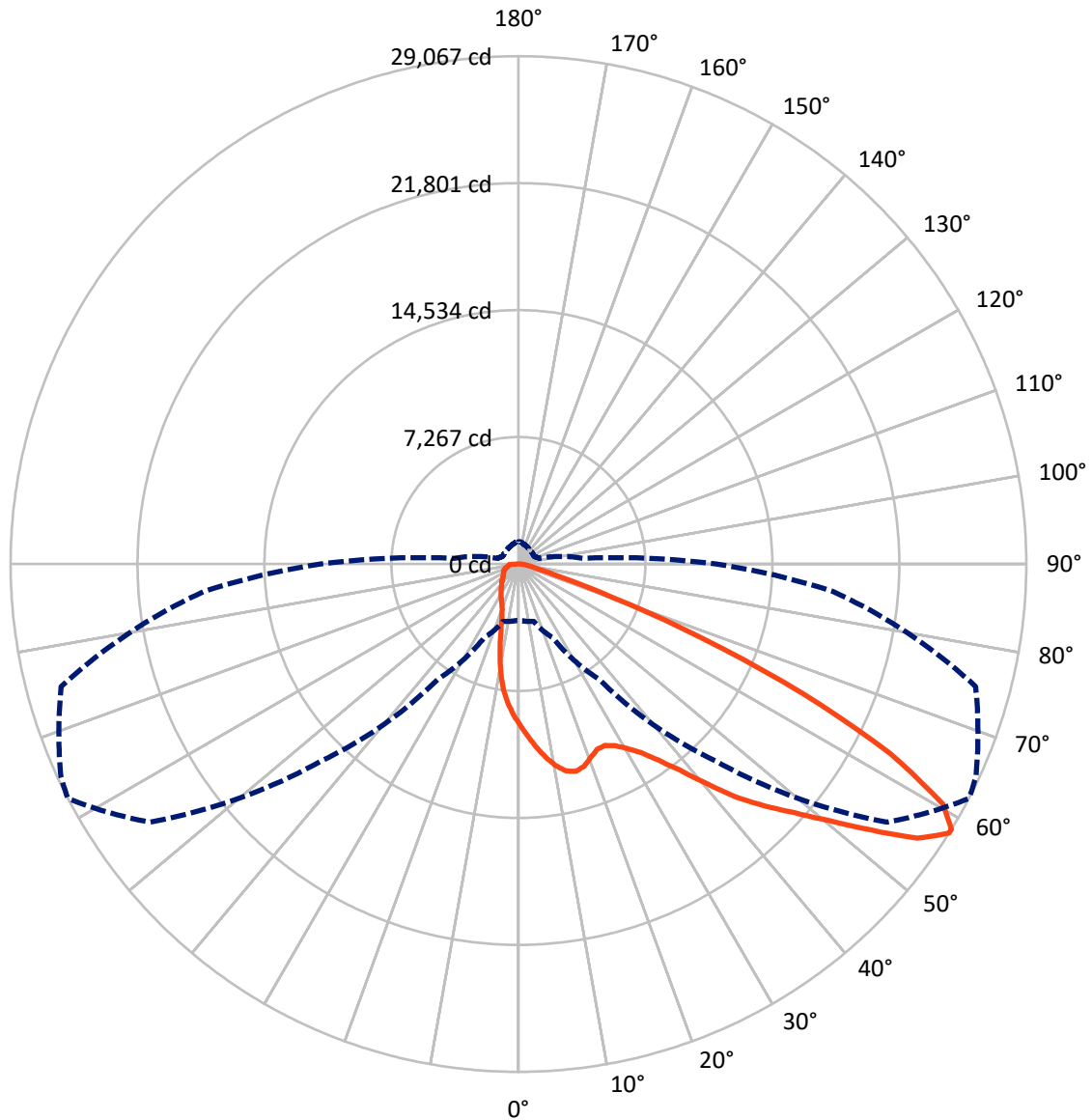


Based on 30 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5276.5 | 0.0 | 5276.5 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 29322.7 | 0.0 | 29322.7 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 34599.2 | 0.0 | 34599.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 822.0 | 2.4 |
| 10°-20° | 2101.1 | 6.1 |
| 20°-30° | 3396.4 | 9.8 |
| 30°-40° | 5391.8 | 15.6 |
| 40°-50° | 7889.3 | 22.8 |
| 50°-60° | 8251.6 | 23.8 |
| 60°-70° | 4875.0 | 14.1 |
| 70°-80° | 1373.3 | 4.0 |
| 80°-90° | 498.6 | 1.4 |
| 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° | 34599.2 | 100.0 |
| 0°-180° | 34599.2 | 100.0 |



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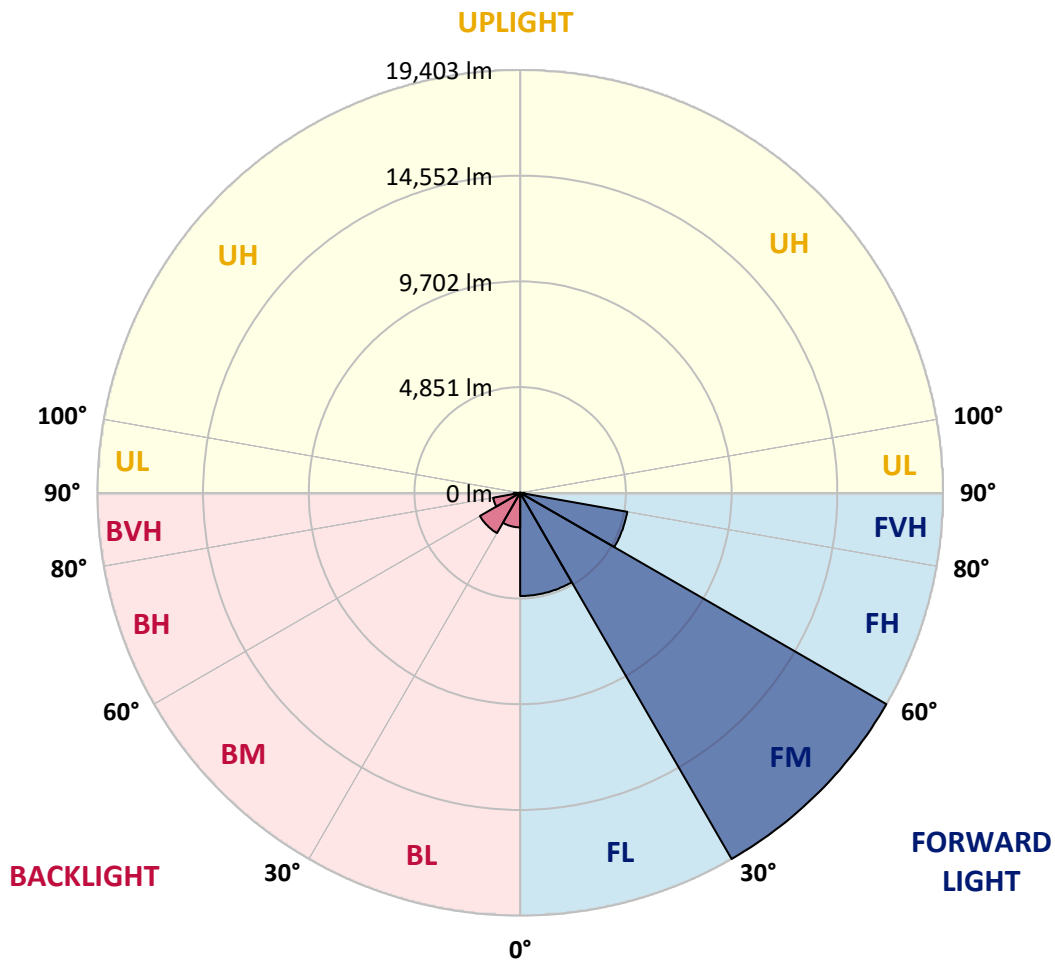
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4733.6 | 13.7 | | | |
| FM (30°-60°) | 19403.0 | 56.1 | | | |
| FH (60°-80°) | 4989.3 | 14.4 | | | G2/5000 |
| FVH (80°-90°) | 196.7 | 0.6 | | | G2/225 |
| BL (0°-30°) | 1585.9 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 2129.7 | 6.2 | B2/2500 | | |
| BH (60°-80°) | 1259.0 | 3.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 301.9 | 0.9 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 62.5° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9190.6 | 9190.6 | 9190.6 | 9190.6 | 9190.6 | 9190.6 | 9190.6 | 9190.6 | 9190.6 | 9190.6 | 9190.6 |
| 2.5° | 10502.2 | 10417.4 | 10363.7 | 10316.3 | 10254.4 | 10122.6 | 9944.9 | 9832.5 | 9775.4 | 9581.6 | 9351.9 |
| 5° | 11531.8 | 11456.9 | 11401.5 | 11337.9 | 11227.1 | 11020.1 | 10733.5 | 10505.4 | 10392.9 | 10005.2 | 9545.7 |
| 7.5° | 11290.6 | 11321.6 | 11417.7 | 11585.6 | 11728.9 | 11701.2 | 11445.5 | 11155.4 | 11007.2 | 10467.9 | 9770.5 |
| 10° | 9837.3 | 9891.1 | 10057.3 | 10450.0 | 11085.4 | 11737.1 | 11935.9 | 11735.5 | 11585.6 | 10925.7 | 10001.9 |
| 12.5° | 9545.7 | 9544.1 | 9557.2 | 9661.5 | 10039.4 | 10956.6 | 11952.2 | 12154.2 | 12064.5 | 11362.3 | 10238.2 |
| 15° | 9664.7 | 9668.0 | 9658.1 | 9702.1 | 9819.5 | 10182.7 | 11453.6 | 12315.5 | 12379.1 | 11802.2 | 10482.5 |
| 17.5° | 9977.5 | 9969.3 | 9931.9 | 9931.9 | 9974.2 | 10116.0 | 10867.1 | 12165.6 | 12458.9 | 12191.6 | 10697.6 |
| 20° | 10502.2 | 10464.6 | 10365.3 | 10274.0 | 10228.5 | 10304.9 | 10626.0 | 11820.2 | 12320.3 | 12532.2 | 10875.2 |
| 22.5° | 11137.5 | 11108.3 | 10946.8 | 10751.4 | 10593.4 | 10591.7 | 10749.7 | 11518.7 | 12080.9 | 12853.0 | 11025.1 |
| 25° | 11958.6 | 11911.4 | 11671.9 | 11359.1 | 11082.1 | 10976.2 | 11020.1 | 11504.1 | 11950.5 | 13201.9 | 11158.7 |
| 27.5° | 12923.1 | 12836.8 | 12553.4 | 12102.1 | 11694.8 | 11481.2 | 11417.7 | 11769.7 | 12069.4 | 13633.5 | 11344.4 |
| 30° | 14093.0 | 13993.5 | 13630.3 | 13042.1 | 12466.9 | 12116.7 | 11981.5 | 12240.6 | 12463.8 | 14159.8 | 11642.7 |
| 32.5° | 15424.1 | 15280.7 | 14860.3 | 14211.8 | 13455.9 | 12921.5 | 12701.6 | 12862.9 | 13040.4 | 14793.6 | 12015.6 |
| 35° | 17263.4 | 17092.4 | 16484.6 | 15590.3 | 14736.5 | 14001.7 | 13649.8 | 13767.2 | 13939.8 | 15738.6 | 12554.9 |
| 37.5° | 18518.0 | 18441.5 | 18037.3 | 17196.7 | 16268.0 | 15422.5 | 14878.3 | 14946.7 | 15044.5 | 16919.7 | 13245.8 |
| 40° | 18506.6 | 18537.6 | 18545.7 | 18553.9 | 17921.6 | 17112.0 | 16527.0 | 16455.3 | 16435.7 | 18216.5 | 14031.0 |
| 42.5° | 17579.6 | 17706.6 | 18117.1 | 18949.7 | 19334.2 | 18962.9 | 18426.8 | 18219.9 | 18117.1 | 19744.8 | 14863.5 |
| 45° | 16160.5 | 16228.9 | 16997.9 | 18623.9 | 20057.6 | 20795.7 | 20390.0 | 19738.3 | 19552.6 | 21149.2 | 15554.4 |
| 47.5° | 15429.0 | 15503.8 | 15987.8 | 17760.4 | 20049.5 | 22276.7 | 22511.3 | 21269.8 | 20937.4 | 22371.2 | 16150.6 |
| 50° | 13687.2 | 13843.7 | 14453.0 | 16258.2 | 19318.0 | 22957.7 | 24728.7 | 23094.5 | 22407.1 | 23560.4 | 16748.5 |
| 52.5° | 10489.1 | 10730.3 | 11412.8 | 13788.4 | 17462.2 | 22620.4 | 26503.0 | 25307.1 | 24336.1 | 24792.2 | 17261.8 |
| 55° | 6616.3 | 6795.6 | 7369.1 | 9737.9 | 13969.2 | 20865.7 | 27175.9 | 27700.5 | 26837.0 | 25958.7 | 17706.6 |
| 57.5° | 3597.4 | 3677.2 | 3892.3 | 5376.5 | 9086.3 | 16986.5 | 26194.9 | 29062.4 | 28704.0 | 26949.3 | 18042.3 |
| 58° | 3219.3 | 3273.2 | 3406.7 | 4659.7 | 8058.2 | 15926.0 | 25759.9 | 29067.4 | 28888.1 | 27094.4 | 18068.2 |
| 60° | 2388.5 | 2360.7 | 2241.8 | 2659.0 | 4485.2 | 11002.4 | 23130.4 | 27904.1 | 28430.3 | 27272.0 | 17941.3 |
| 62.5° | 2098.5 | 2031.6 | 1789.0 | 1761.1 | 2181.5 | 5068.5 | 17698.4 | 23902.6 | 25145.7 | 26258.5 | 17168.9 |
| 65° | 1971.4 | 1899.6 | 1586.9 | 1485.8 | 1573.8 | 2144.1 | 10425.5 | 17926.5 | 19485.8 | 23185.8 | 15194.3 |
| 67.5° | 1876.9 | 1784.0 | 1458.2 | 1319.7 | 1326.2 | 1417.4 | 4179.1 | 11290.6 | 13045.4 | 17603.9 | 11818.6 |
| 70° | 1785.7 | 1684.6 | 1349.1 | 1189.4 | 1151.8 | 1120.9 | 1661.9 | 5651.9 | 7243.7 | 11119.6 | 7535.3 |
| 72.5° | 1687.8 | 1588.6 | 1252.9 | 1086.7 | 1013.4 | 910.7 | 1085.2 | 2311.9 | 3229.1 | 5260.8 | 3418.1 |
| 75° | 1546.2 | 1456.5 | 1156.7 | 995.5 | 891.2 | 754.3 | 819.6 | 1207.2 | 1448.3 | 2095.1 | 1647.1 |
| 77.5° | 1371.8 | 1298.5 | 1049.2 | 920.6 | 790.1 | 612.6 | 630.5 | 837.4 | 928.7 | 1199.1 | 979.2 |
| 80° | 985.7 | 1011.9 | 933.6 | 827.7 | 703.8 | 496.9 | 483.8 | 610.9 | 659.9 | 770.7 | 637.1 |
| 82.5° | 692.5 | 707.1 | 772.3 | 676.2 | 581.7 | 391.0 | 356.7 | 430.1 | 459.5 | 506.7 | 343.8 |
| 85° | 477.4 | 461.1 | 529.6 | 470.8 | 420.3 | 260.7 | 244.3 | 291.6 | 309.6 | 314.4 | 177.5 |
| 87.5° | 286.7 | 286.7 | 306.3 | 252.6 | 226.5 | 135.3 | 132.1 | 166.1 | 177.5 | 169.4 | 97.7 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9190.6 | 9190.6 | 9190.6 | 9190.6 | 9190.6 | 9190.6 | 9190.6 | 9190.6 | 9190.6 | 9190.6 | 9190.6 |
| 2.5° | 9215.1 | 9099.3 | 8853.3 | 8656.2 | 8406.9 | 8147.8 | 8002.8 | 7848.0 | 7742.1 | 7665.5 | 7787.8 |
| 5° | 9285.2 | 9048.8 | 8540.5 | 8058.2 | 7525.6 | 6971.6 | 6551.2 | 6160.1 | 5888.1 | 5718.6 | 5878.2 |
| 7.5° | 9395.8 | 9032.5 | 8222.7 | 7398.4 | 6442.0 | 5519.8 | 4695.5 | 4179.1 | 3877.7 | 3729.4 | 3822.2 |
| 10° | 9522.9 | 9006.4 | 7849.7 | 6504.0 | 5135.4 | 3973.7 | 3357.9 | 3149.4 | 3080.8 | 3053.2 | 3066.3 |
| 12.5° | 9628.8 | 8951.2 | 7392.0 | 5422.1 | 3856.5 | 3137.9 | 2960.4 | 2955.5 | 2970.2 | 2973.4 | 2978.3 |
| 15° | 9703.9 | 8869.7 | 6712.5 | 4294.6 | 3084.2 | 2859.3 | 2849.6 | 2878.9 | 2906.6 | 2918.0 | 2924.5 |
| 17.5° | 9754.2 | 8701.8 | 5945.2 | 3395.4 | 2763.1 | 2724.1 | 2746.8 | 2784.3 | 2813.8 | 2821.8 | 2828.4 |
| 20° | 9749.5 | 8455.7 | 5031.0 | 2831.6 | 2588.8 | 2588.8 | 2628.0 | 2657.2 | 2659.0 | 2649.1 | 2654.0 |
| 22.5° | 9698.9 | 8118.5 | 4144.8 | 2531.9 | 2434.0 | 2461.7 | 2500.9 | 2473.3 | 2359.2 | 2284.2 | 2289.2 |
| 25° | 9614.2 | 7716.1 | 3385.5 | 2341.3 | 2290.7 | 2339.5 | 2328.1 | 2119.6 | 1956.7 | 1883.3 | 1883.3 |
| 27.5° | 9539.2 | 7240.3 | 2802.4 | 2175.1 | 2147.4 | 2207.7 | 2005.6 | 1816.6 | 1748.2 | 1714.0 | 1702.6 |
| 30° | 9485.5 | 6727.1 | 2412.8 | 2015.3 | 2012.2 | 1968.1 | 1740.0 | 1687.8 | 1676.4 | 1648.7 | 1639.0 |
| 32.5° | 9498.5 | 6207.4 | 2163.7 | 1875.2 | 1886.7 | 1684.6 | 1612.9 | 1624.3 | 1614.6 | 1585.2 | 1572.3 |
| 35° | 9606.0 | 5713.8 | 2000.7 | 1748.2 | 1714.0 | 1521.6 | 1538.0 | 1559.2 | 1556.0 | 1515.3 | 1502.1 |
| 37.5° | 9798.4 | 5246.2 | 1893.2 | 1642.3 | 1495.7 | 1440.3 | 1466.4 | 1498.9 | 1490.7 | 1463.1 | 1453.3 |
| 40° | 10000.3 | 4806.3 | 1805.2 | 1559.2 | 1367.0 | 1384.8 | 1407.6 | 1425.6 | 1433.8 | 1441.9 | 1435.3 |
| 42.5° | 10197.4 | 4346.8 | 1697.6 | 1474.5 | 1313.1 | 1332.7 | 1342.4 | 1360.5 | 1404.4 | 1435.3 | 1433.8 |
| 45° | 10314.8 | 3915.1 | 1586.9 | 1353.8 | 1270.8 | 1282.2 | 1275.8 | 1311.5 | 1365.3 | 1415.8 | 1417.4 |
| 47.5° | 10445.1 | 3579.4 | 1498.9 | 1243.2 | 1230.0 | 1238.3 | 1218.7 | 1254.6 | 1303.4 | 1365.3 | 1371.8 |
| 50° | 10603.1 | 3379.1 | 1428.8 | 1155.1 | 1174.7 | 1174.7 | 1169.9 | 1202.4 | 1270.8 | 1342.4 | 1355.5 |
| 52.5° | 10782.4 | 3340.0 | 1370.2 | 1091.6 | 1119.3 | 1117.6 | 1122.5 | 1171.4 | 1246.4 | 1316.5 | 1327.9 |
| 55° | 11000.6 | 3445.9 | 1306.7 | 1044.4 | 1065.5 | 1072.0 | 1088.3 | 1143.7 | 1207.2 | 1287.1 | 1292.0 |
| 57.5° | 11254.9 | 3661.0 | 1256.1 | 1006.9 | 1016.6 | 1037.8 | 1064.0 | 1114.3 | 1182.8 | 1270.8 | 1275.8 |
| 58° | 11297.2 | 3706.5 | 1247.9 | 1003.6 | 1006.9 | 1031.3 | 1060.7 | 1109.4 | 1177.9 | 1274.1 | 1278.9 |
| 60° | 11298.8 | 3858.0 | 1230.0 | 988.9 | 969.5 | 1010.1 | 1042.8 | 1091.6 | 1169.9 | 1285.5 | 1296.9 |
| 62.5° | 10898.0 | 3856.5 | 1217.1 | 967.7 | 930.4 | 980.8 | 1018.3 | 1075.4 | 1161.7 | 1313.1 | 1336.0 |
| 65° | 9596.2 | 3504.5 | 1155.1 | 935.1 | 899.4 | 954.8 | 997.1 | 1064.0 | 1184.4 | 1433.8 | 1448.3 |
| 67.5° | 7506.0 | 2872.4 | 1039.5 | 889.6 | 858.6 | 928.7 | 984.1 | 1062.2 | 1208.8 | 1461.5 | 1471.2 |
| 70° | 4962.6 | 2148.9 | 912.4 | 837.4 | 816.3 | 897.8 | 990.7 | 1117.6 | 1181.2 | 1402.8 | 1376.7 |
| 72.5° | 2575.8 | 1508.7 | 809.7 | 772.3 | 767.4 | 870.0 | 1085.2 | 1111.2 | 1153.6 | 1319.7 | 1287.1 |
| 75° | 1352.3 | 1047.7 | 720.1 | 700.6 | 708.8 | 863.5 | 1280.5 | 1081.7 | 1117.6 | 1262.7 | 1324.6 |
| 77.5° | 827.7 | 845.6 | 643.5 | 635.5 | 651.7 | 844.0 | 1278.9 | 1044.4 | 1065.5 | 1161.7 | 1230.0 |
| 80° | 554.0 | 685.9 | 584.8 | 586.6 | 597.9 | 772.3 | 1148.7 | 985.7 | 1002.0 | 1098.1 | 1168.2 |
| 82.5° | 350.2 | 405.7 | 531.2 | 558.8 | 544.2 | 637.1 | 975.9 | 897.8 | 920.6 | 1256.1 | 1327.9 |
| 85° | 177.5 | 254.2 | 461.1 | 537.6 | 490.5 | 446.4 | 791.9 | 786.9 | 798.4 | 905.9 | 946.6 |
| 87.5° | 81.4 | 140.1 | 360.1 | 469.3 | 369.8 | 278.7 | 575.2 | 583.3 | 629.0 | 643.5 | 643.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)