

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: P269429

Luminaire Tested: **GLEON-AF-06-LED-E1-T3R-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-T3R-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31624.3 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

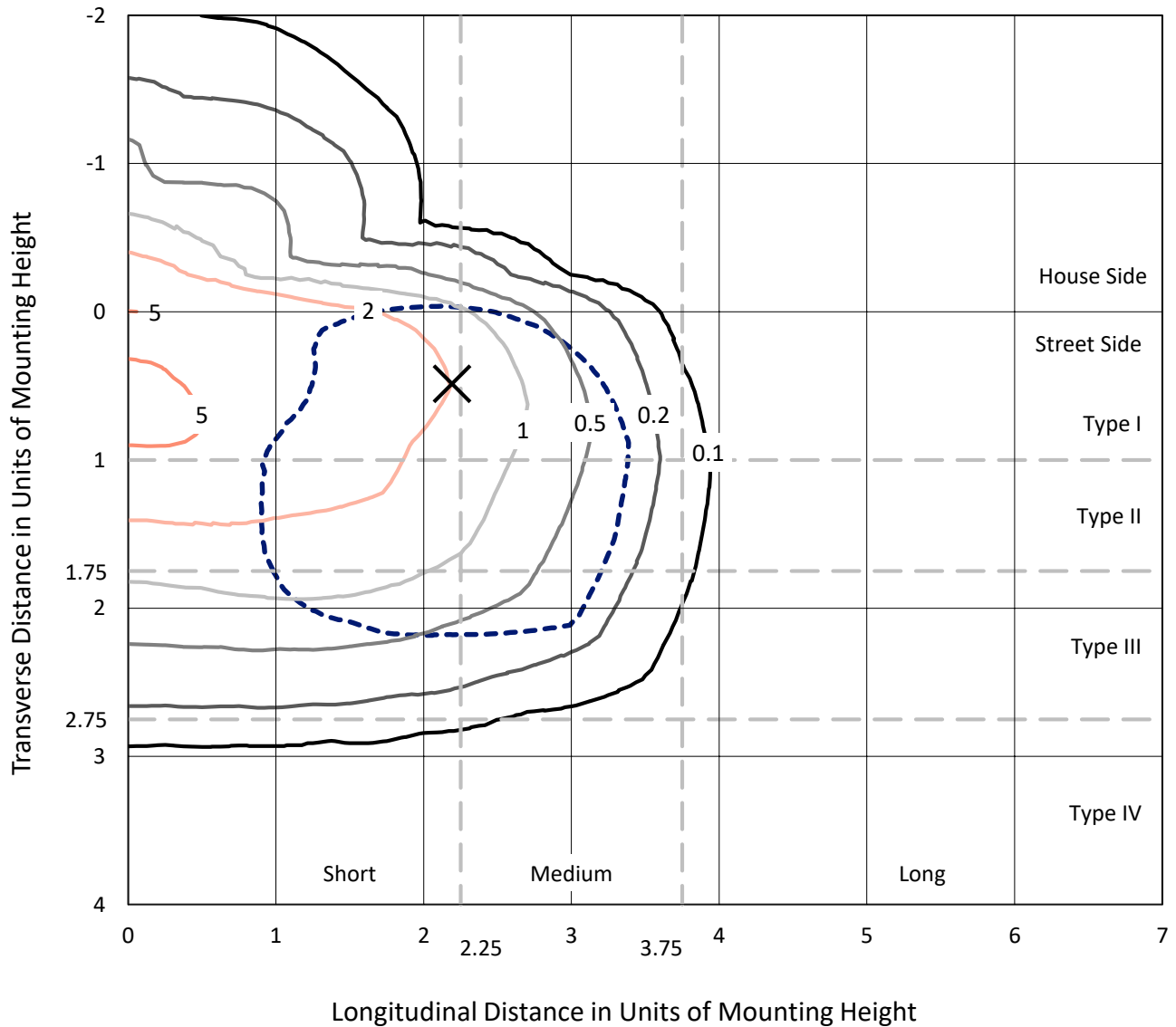
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

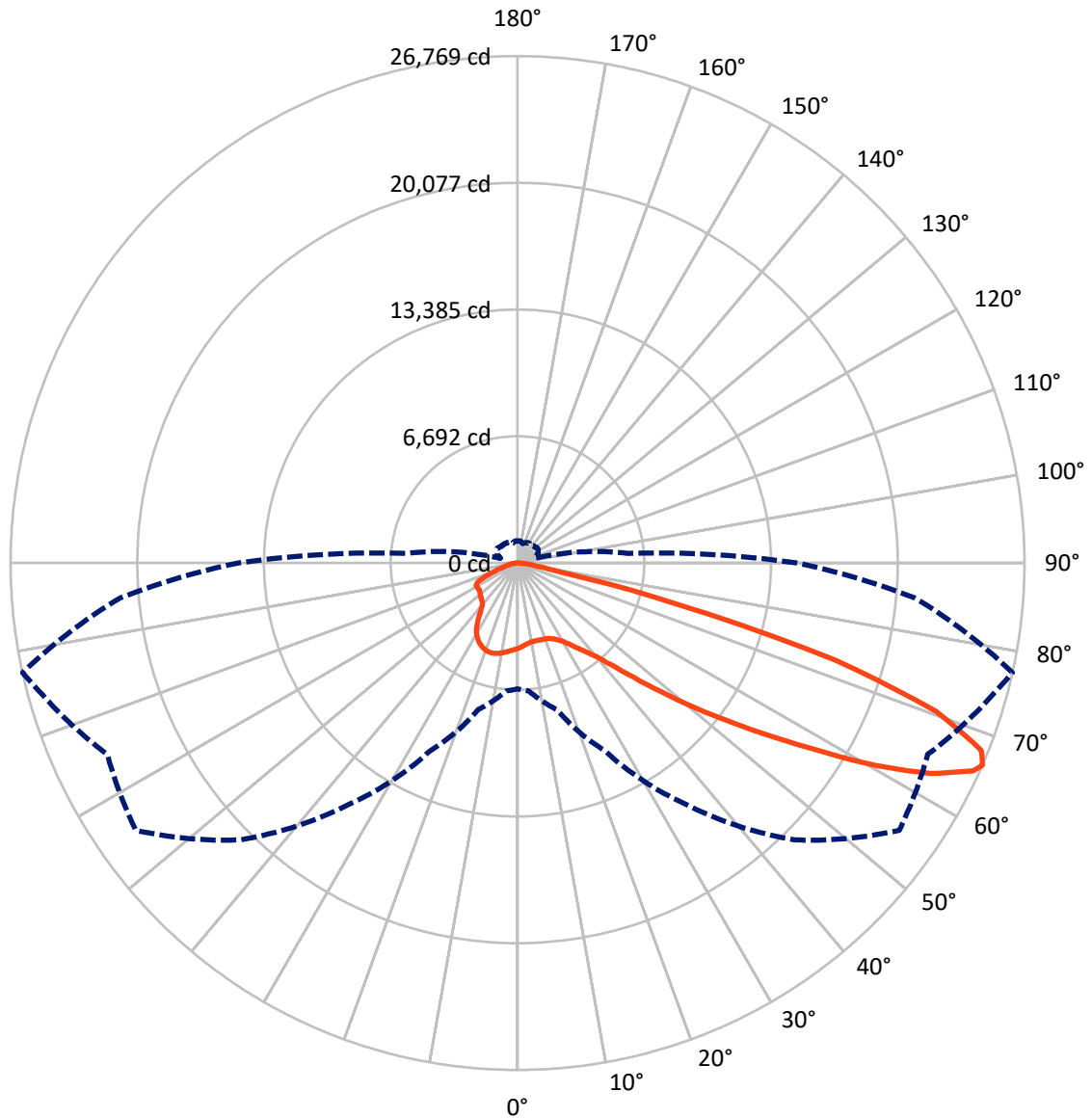
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5402.8 | 0.0 | 5402.8 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 26221.5 | 0.0 | 26221.5 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 31624.3 | 0.0 | 31624.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 402.6 | 1.3 |
| 10°-20° | 1135.9 | 3.6 |
| 20°-30° | 1938.6 | 6.1 |
| 30°-40° | 3103.3 | 9.8 |
| 40°-50° | 4794.3 | 15.2 |
| 50°-60° | 6799.9 | 21.5 |
| 60°-70° | 9096.5 | 28.8 |
| 70°-80° | 3950.4 | 12.5 |
| 80°-90° | 402.8 | 1.3 |
| 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° | 31624.3 | 100.0 |
| 0°-180° | 31624.3 | 100.0 |



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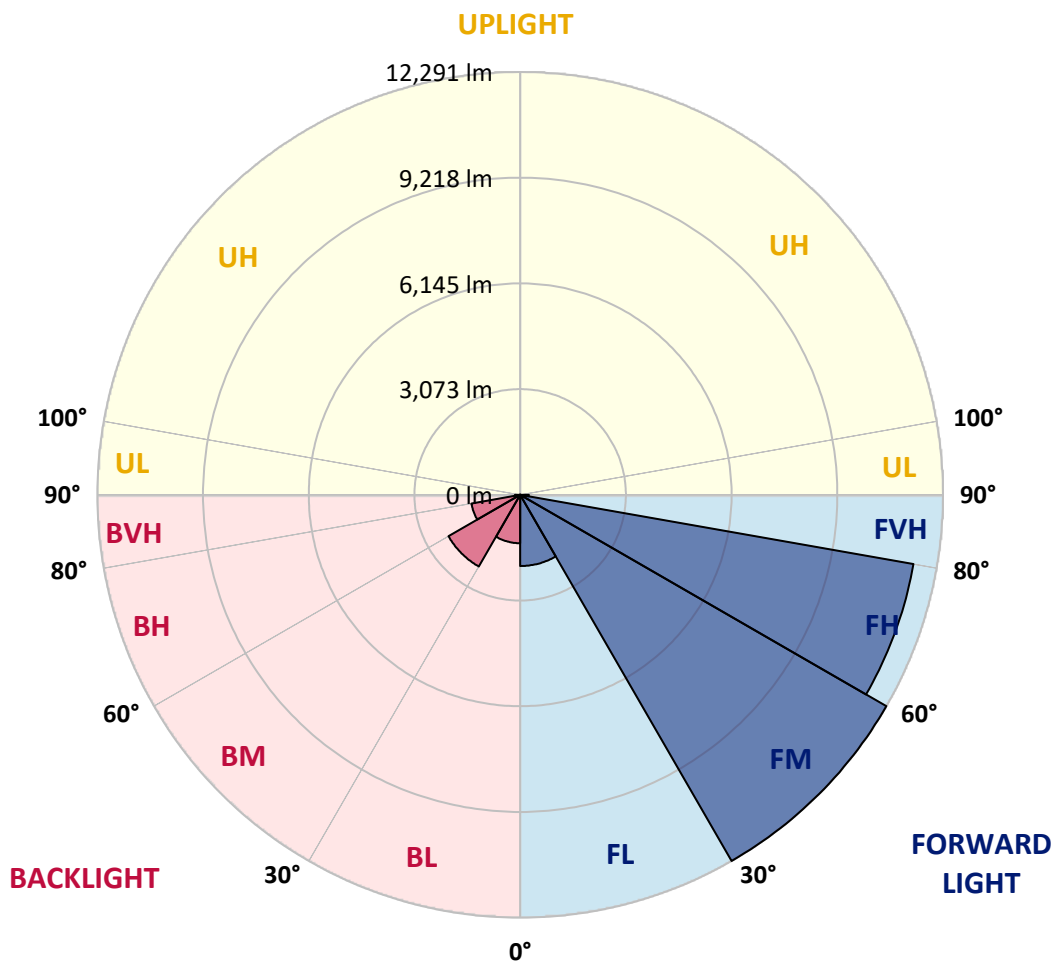
CATALOG NUMBER: GLEON-AF-06-LED-E1-T3R-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2070.0 | 6.5 | | | |
| FM | (30°-60°) | 12290.9 | 38.9 | | | |
| FH | (60°-80°) | 11608.1 | 36.7 | | | G4/12000 |
| FVH | (80°-90°) | 252.6 | 0.8 | | | G3/500 |
| BL | (0°-30°) | 1407.1 | 4.4 | B3/2500 | | |
| BM | (30°-60°) | 2406.6 | 7.6 | B2/2500 | | |
| BH | (60°-80°) | 1438.9 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 150.2 | 0.5 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77.5° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4506.5 | 4506.5 | 4506.5 | 4506.5 | 4506.5 | 4506.5 | 4506.5 | 4506.5 | 4506.5 | 4506.5 | 4506.5 |
| 2.5° | 3986.6 | 4013.4 | 4035.9 | 4056.8 | 4098.6 | 4167.4 | 4246.6 | 4310.8 | 4403.5 | 4421.5 | 4470.8 |
| 5° | 3620.4 | 3620.4 | 3638.4 | 3669.8 | 3726.6 | 3829.7 | 3937.4 | 4080.8 | 4282.5 | 4330.3 | 4461.8 |
| 7.5° | 3442.8 | 3444.2 | 3454.7 | 3481.7 | 3530.9 | 3625.0 | 3743.1 | 3911.8 | 4185.4 | 4264.6 | 4488.7 |
| 10° | 3508.5 | 3493.5 | 3471.1 | 3457.7 | 3465.1 | 3520.4 | 3632.4 | 3820.9 | 4125.6 | 4227.2 | 4548.5 |
| 12.5° | 3876.0 | 3847.7 | 3769.9 | 3666.8 | 3568.2 | 3528.0 | 3593.6 | 3777.5 | 4100.1 | 4218.3 | 4627.7 |
| 15° | 4476.8 | 4464.8 | 4319.8 | 4106.2 | 3867.1 | 3666.8 | 3622.1 | 3761.1 | 4103.2 | 4228.7 | 4721.9 |
| 17.5° | 5229.8 | 5213.5 | 5022.2 | 4711.3 | 4321.3 | 3931.3 | 3722.1 | 3774.5 | 4113.6 | 4246.6 | 4812.8 |
| 20° | 5990.3 | 5939.7 | 5733.4 | 5362.8 | 4862.3 | 4291.5 | 3888.0 | 3808.9 | 4127.1 | 4266.1 | 4908.6 |
| 22.5° | 6558.2 | 6516.3 | 6331.1 | 5970.9 | 5394.2 | 4708.3 | 4110.6 | 3868.6 | 4170.4 | 4322.9 | 5026.6 |
| 25° | 7057.3 | 7060.3 | 6876.4 | 6528.3 | 5932.0 | 5150.6 | 4397.6 | 4028.4 | 4281.1 | 4439.3 | 5188.0 |
| 27.5° | 7674.4 | 7638.6 | 7466.7 | 7121.6 | 6464.1 | 5597.3 | 4744.2 | 4248.2 | 4445.4 | 4605.3 | 5400.3 |
| 30° | 8412.5 | 8387.1 | 8188.4 | 7796.8 | 7054.3 | 6077.0 | 5140.2 | 4503.7 | 4657.5 | 4823.4 | 5678.0 |
| 32.5° | 9280.7 | 9268.7 | 9062.6 | 8559.1 | 7735.7 | 6641.9 | 5604.9 | 4841.3 | 4974.4 | 5146.1 | 6077.0 |
| 35° | 10299.7 | 10301.3 | 10057.8 | 9452.5 | 8481.3 | 7299.4 | 6132.3 | 5276.1 | 5359.8 | 5539.0 | 6552.2 |
| 37.5° | 10927.3 | 11003.6 | 10912.4 | 10295.3 | 9325.6 | 8034.5 | 6816.7 | 5852.9 | 5799.1 | 5979.9 | 7061.8 |
| 40° | 11061.8 | 11154.4 | 11442.9 | 11129.1 | 10270.0 | 8844.4 | 7423.4 | 6407.3 | 6340.1 | 6561.2 | 7717.7 |
| 42.5° | 10873.5 | 11002.0 | 11611.8 | 11832.8 | 11272.6 | 9842.5 | 8239.3 | 7230.5 | 7145.5 | 7442.7 | 8533.5 |
| 45° | 10761.4 | 10857.2 | 11562.4 | 12199.0 | 12142.2 | 10970.7 | 9277.8 | 8264.6 | 8233.2 | 8623.2 | 9475.0 |
| 47.5° | 10567.2 | 10653.9 | 11332.3 | 12284.1 | 12653.2 | 12004.7 | 10525.4 | 9528.7 | 9589.9 | 10101.0 | 10537.4 |
| 50° | 10671.9 | 10707.6 | 11075.3 | 12067.4 | 12801.0 | 12762.3 | 11919.5 | 10993.1 | 11202.3 | 11840.3 | 11740.2 |
| 52.5° | 10657.0 | 10749.6 | 11045.4 | 11711.8 | 12820.5 | 13230.0 | 13292.7 | 12626.2 | 13067.0 | 13799.3 | 13074.7 |
| 55° | 8615.7 | 8786.1 | 10694.2 | 11622.2 | 12889.3 | 13688.7 | 14515.1 | 14347.6 | 15169.5 | 16022.7 | 14580.7 |
| 57.5° | 8227.2 | 8334.8 | 9392.8 | 11810.5 | 13253.9 | 14564.3 | 15874.8 | 16242.3 | 17617.0 | 18607.8 | 16415.6 |
| 60° | 8151.0 | 8284.0 | 9379.4 | 12040.5 | 13993.4 | 15991.3 | 17890.5 | 18535.9 | 20595.0 | 21679.9 | 18543.4 |
| 62.5° | 7913.4 | 8056.9 | 9291.2 | 12010.7 | 15043.9 | 17965.3 | 20471.0 | 20974.5 | 23419.2 | 24474.1 | 20323.2 |
| 65° | 7160.4 | 7294.9 | 8572.4 | 11527.9 | 15752.1 | 20072.1 | 23525.3 | 23210.0 | 25648.5 | 26442.0 | 21210.7 |
| 66° | 6644.9 | 6776.4 | 8006.1 | 10960.2 | 15587.8 | 20669.8 | 24607.1 | 23901.8 | 26147.7 | 26769.2 | 21037.3 |
| 67.5° | 5702.0 | 5805.0 | 6906.3 | 9688.6 | 14713.8 | 20837.2 | 25517.1 | 24421.9 | 26200.0 | 26419.6 | 20046.7 |
| 70° | 3602.7 | 3632.4 | 4488.7 | 6688.2 | 11138.1 | 18071.4 | 24131.9 | 23130.7 | 24039.3 | 23444.5 | 16805.8 |
| 72.5° | 1563.1 | 1552.5 | 2154.7 | 3402.4 | 6305.7 | 12125.7 | 19520.7 | 19085.8 | 18857.3 | 17500.5 | 11764.2 |
| 75° | 869.6 | 881.5 | 1119.2 | 1579.4 | 2562.7 | 5956.0 | 12769.8 | 12219.9 | 10317.8 | 8804.1 | 5334.4 |
| 77.5° | 697.9 | 714.2 | 927.9 | 1120.6 | 1150.5 | 2077.1 | 5975.4 | 4862.3 | 2927.1 | 2349.0 | 1482.3 |
| 80° | 551.4 | 581.3 | 809.9 | 872.7 | 775.4 | 856.3 | 1930.5 | 1543.6 | 1158.0 | 1062.3 | 768.1 |
| 82.5° | 436.2 | 457.2 | 694.7 | 660.4 | 542.3 | 576.8 | 925.0 | 901.0 | 753.0 | 685.9 | 443.9 |
| 85° | 313.8 | 352.7 | 570.9 | 497.7 | 355.5 | 388.4 | 614.1 | 588.7 | 431.8 | 352.7 | 195.7 |
| 87.5° | 128.5 | 167.4 | 403.5 | 330.2 | 198.7 | 180.7 | 306.3 | 288.4 | 204.8 | 149.4 | 97.1 |
| 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° | 4506.5 | 4506.5 | 4506.5 | 4506.5 | 4506.5 | 4506.5 | 4506.5 | 4506.5 | 4506.5 | 4506.5 | 4506.5 |
| 2.5° | 4502.1 | 4538.0 | 4584.3 | 4612.6 | 4627.7 | 4638.0 | 4654.6 | 4653.0 | 4657.5 | 4659.0 | 4665.0 |
| 5° | 4531.9 | 4591.7 | 4659.0 | 4676.9 | 4676.9 | 4660.5 | 4644.1 | 4617.2 | 4606.7 | 4603.8 | 4606.7 |
| 7.5° | 4609.7 | 4675.5 | 4733.8 | 4712.8 | 4668.0 | 4602.2 | 4517.0 | 4442.4 | 4402.1 | 4388.6 | 4385.5 |
| 10° | 4708.3 | 4787.5 | 4811.4 | 4732.2 | 4600.8 | 4442.4 | 4273.4 | 4151.0 | 4080.8 | 4061.3 | 4055.4 |
| 12.5° | 4827.9 | 4902.6 | 4869.7 | 4702.4 | 4458.7 | 4203.3 | 3970.1 | 3774.5 | 3628.1 | 3581.7 | 3578.7 |
| 15° | 4959.4 | 5017.7 | 4902.6 | 4609.7 | 4246.6 | 3870.1 | 3454.7 | 3116.9 | 2934.8 | 2876.5 | 2871.9 |
| 17.5° | 5081.9 | 5111.7 | 4883.1 | 4448.3 | 3934.3 | 3324.6 | 2773.2 | 2513.3 | 2450.5 | 2465.5 | 2468.5 |
| 20° | 5186.5 | 5186.5 | 4817.4 | 4216.7 | 3442.8 | 2606.0 | 2257.8 | 2253.3 | 2298.1 | 2343.0 | 2351.9 |
| 22.5° | 5301.5 | 5232.7 | 4702.4 | 3889.5 | 2746.4 | 2132.2 | 2081.5 | 2123.4 | 2174.1 | 2223.5 | 2230.9 |
| 25° | 5443.5 | 5270.1 | 4542.5 | 3393.3 | 2159.2 | 1936.6 | 1956.0 | 1990.4 | 2015.7 | 2047.1 | 2051.5 |
| 27.5° | 5601.9 | 5318.0 | 4331.7 | 2710.5 | 1873.8 | 1813.9 | 1828.9 | 1840.8 | 1837.9 | 1849.9 | 1852.8 |
| 30° | 5791.6 | 5373.3 | 4043.5 | 2118.8 | 1755.7 | 1709.5 | 1682.5 | 1672.0 | 1672.0 | 1691.5 | 1699.0 |
| 32.5° | 6045.7 | 5455.4 | 3629.5 | 1815.6 | 1699.0 | 1634.6 | 1548.0 | 1509.2 | 1524.2 | 1589.9 | 1604.8 |
| 35° | 6325.1 | 5543.6 | 3069.1 | 1712.3 | 1686.9 | 1600.3 | 1465.9 | 1394.1 | 1395.5 | 1457.0 | 1476.4 |
| 37.5° | 6629.9 | 5655.6 | 2455.1 | 1692.9 | 1713.8 | 1601.8 | 1422.6 | 1323.9 | 1283.6 | 1283.6 | 1291.0 |
| 40° | 7020.0 | 5770.7 | 1987.3 | 1706.4 | 1770.6 | 1619.7 | 1400.1 | 1268.5 | 1155.0 | 1158.0 | 1164.1 |
| 42.5° | 7527.9 | 5869.3 | 1736.3 | 1734.7 | 1839.4 | 1643.7 | 1398.7 | 1195.4 | 1096.8 | 1164.1 | 1225.3 |
| 45° | 8092.8 | 5918.7 | 1625.8 | 1760.1 | 1894.6 | 1658.6 | 1374.6 | 1183.4 | 1104.2 | 1304.5 | 1420.9 |
| 47.5° | 8742.8 | 5890.2 | 1564.5 | 1769.2 | 1908.1 | 1658.6 | 1347.7 | 1211.9 | 1156.6 | 1510.7 | 1646.7 |
| 50° | 9455.5 | 5808.1 | 1504.8 | 1751.2 | 1903.7 | 1655.7 | 1373.1 | 1240.2 | 1176.1 | 1546.5 | 1640.7 |
| 52.5° | 10293.8 | 5739.4 | 1441.9 | 1712.3 | 1872.2 | 1639.1 | 1403.2 | 1228.3 | 1114.6 | 1406.0 | 1471.9 |
| 55° | 11250.2 | 5758.8 | 1371.7 | 1657.2 | 1823.0 | 1607.7 | 1392.6 | 1180.5 | 1050.5 | 1238.8 | 1279.0 |
| 57.5° | 12472.3 | 5990.3 | 1288.0 | 1586.9 | 1755.7 | 1555.4 | 1355.3 | 1158.0 | 1031.1 | 1123.7 | 1147.6 |
| 60° | 13836.7 | 6393.9 | 1183.4 | 1516.7 | 1672.0 | 1471.9 | 1326.8 | 1168.4 | 1040.0 | 1114.6 | 1126.7 |
| 62.5° | 14837.8 | 6628.5 | 1093.7 | 1413.6 | 1558.5 | 1379.2 | 1291.0 | 1181.9 | 1064.0 | 1146.1 | 1143.2 |
| 65° | 15109.8 | 6243.0 | 981.7 | 1262.7 | 1404.6 | 1282.1 | 1246.2 | 1196.9 | 1074.4 | 1171.5 | 1158.0 |
| 66° | 14728.7 | 5827.6 | 932.4 | 1192.4 | 1326.8 | 1234.2 | 1223.9 | 1195.4 | 1069.9 | 1174.4 | 1152.0 |
| 67.5° | 13803.7 | 4975.8 | 847.2 | 1089.4 | 1202.9 | 1162.4 | 1187.9 | 1181.9 | 1057.9 | 1171.5 | 1140.0 |
| 70° | 11257.6 | 3395.0 | 724.8 | 907.0 | 1001.2 | 1023.6 | 1119.2 | 1134.1 | 1019.0 | 1119.2 | 1050.5 |
| 72.5° | 7865.6 | 2068.0 | 641.0 | 703.8 | 809.9 | 872.7 | 1025.1 | 1068.4 | 966.8 | 977.3 | 911.5 |
| 75° | 3801.4 | 1098.3 | 581.3 | 545.5 | 629.1 | 729.2 | 911.5 | 978.8 | 884.7 | 817.4 | 793.5 |
| 77.5° | 1185.0 | 670.9 | 493.1 | 439.4 | 493.1 | 588.7 | 762.0 | 857.7 | 787.5 | 684.4 | 675.3 |
| 80° | 636.5 | 493.1 | 379.5 | 352.7 | 390.0 | 461.6 | 599.2 | 715.7 | 677.0 | 614.1 | 548.3 |
| 82.5° | 419.9 | 319.7 | 280.9 | 273.4 | 297.3 | 352.7 | 445.3 | 593.2 | 593.2 | 526.0 | 382.5 |
| 85° | 216.8 | 195.7 | 192.7 | 192.7 | 207.7 | 234.5 | 303.4 | 457.2 | 487.2 | 277.9 | 230.1 |
| 87.5° | 107.5 | 112.1 | 104.7 | 109.1 | 116.5 | 115.1 | 144.9 | 230.1 | 274.9 | 168.8 | 140.4 |
| 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)