

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: P269513

Luminaire Tested: **GLEON-AF-07-LED-E1-T4FT-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-T4FT-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36799.7 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 391
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

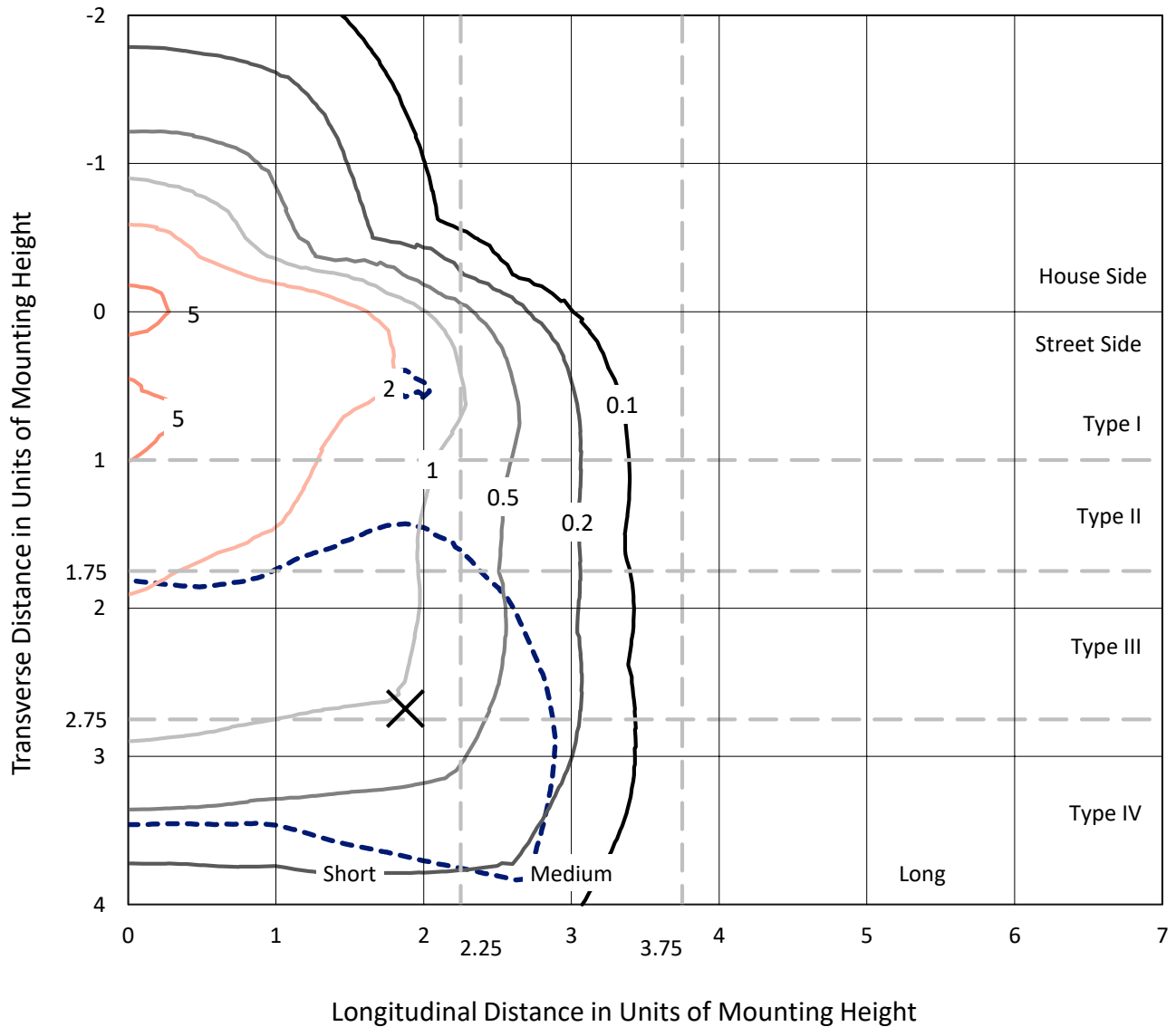


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Iso-Footcandle Lines of Horizontal Illumination

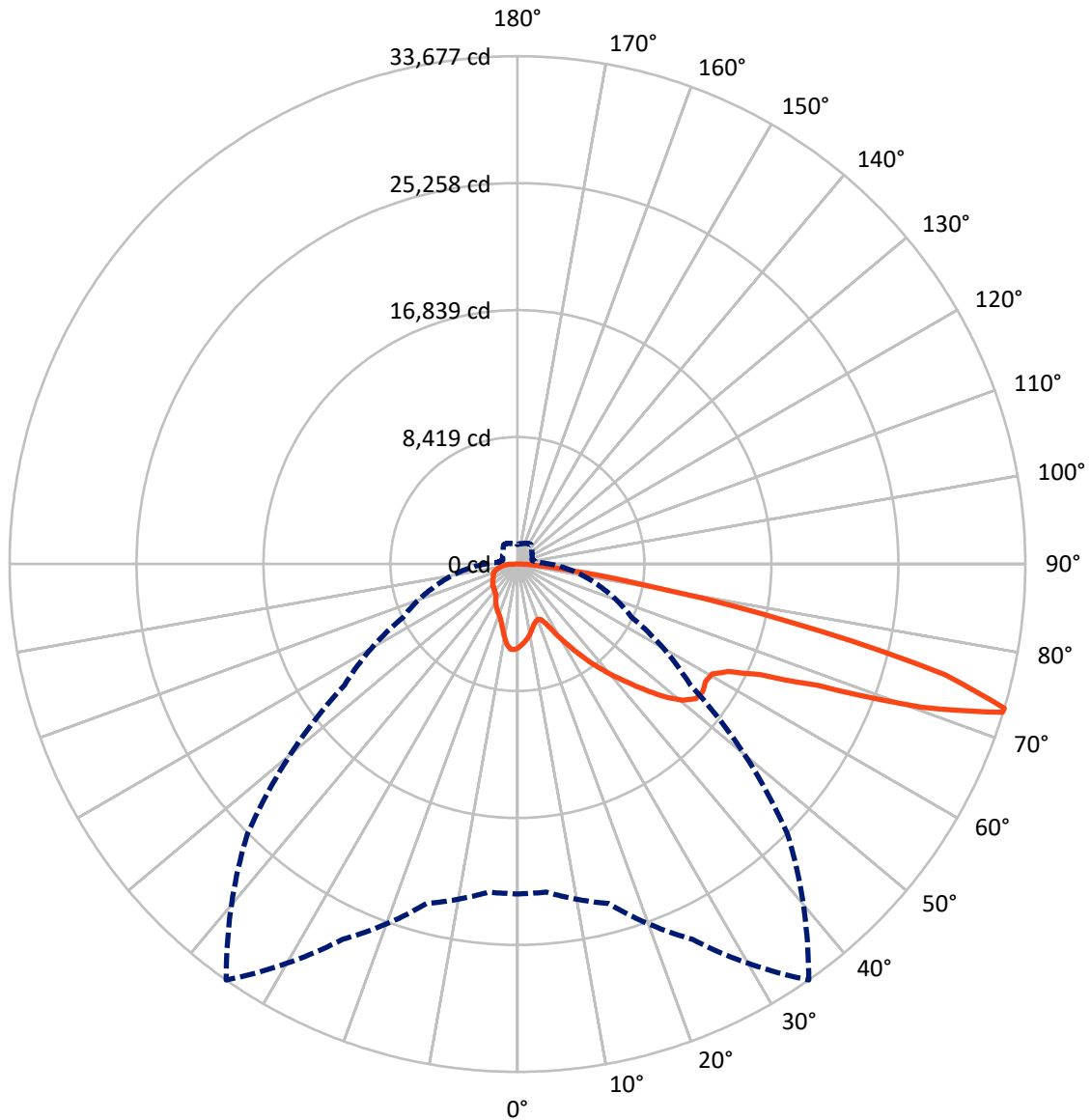
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7018.7 | 0.0 | 7018.7 |
| | % Fixture | 19.1 | 0.0 | 19.1 |
| Street Side | Lumens | 29781.0 | 0.0 | 29781.0 |
| | % Fixture | 80.9 | 0.0 | 80.9 |
| Total | Lumens | 36799.7 | 0.0 | 36799.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 502.8 | 1.4 |
| 10°-20° | 1255.0 | 3.4 |
| 20°-30° | 2028.8 | 5.5 |
| 30°-40° | 3402.0 | 9.2 |
| 40°-50° | 5244.1 | 14.3 |
| 50°-60° | 7035.5 | 19.1 |
| 60°-70° | 9372.7 | 25.5 |
| 70°-80° | 7148.5 | 19.4 |
| 80°-90° | 810.3 | 2.2 |
| 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° | 36799.7 | 100.0 |
| 0°-180° | 36799.7 | 100.0 |



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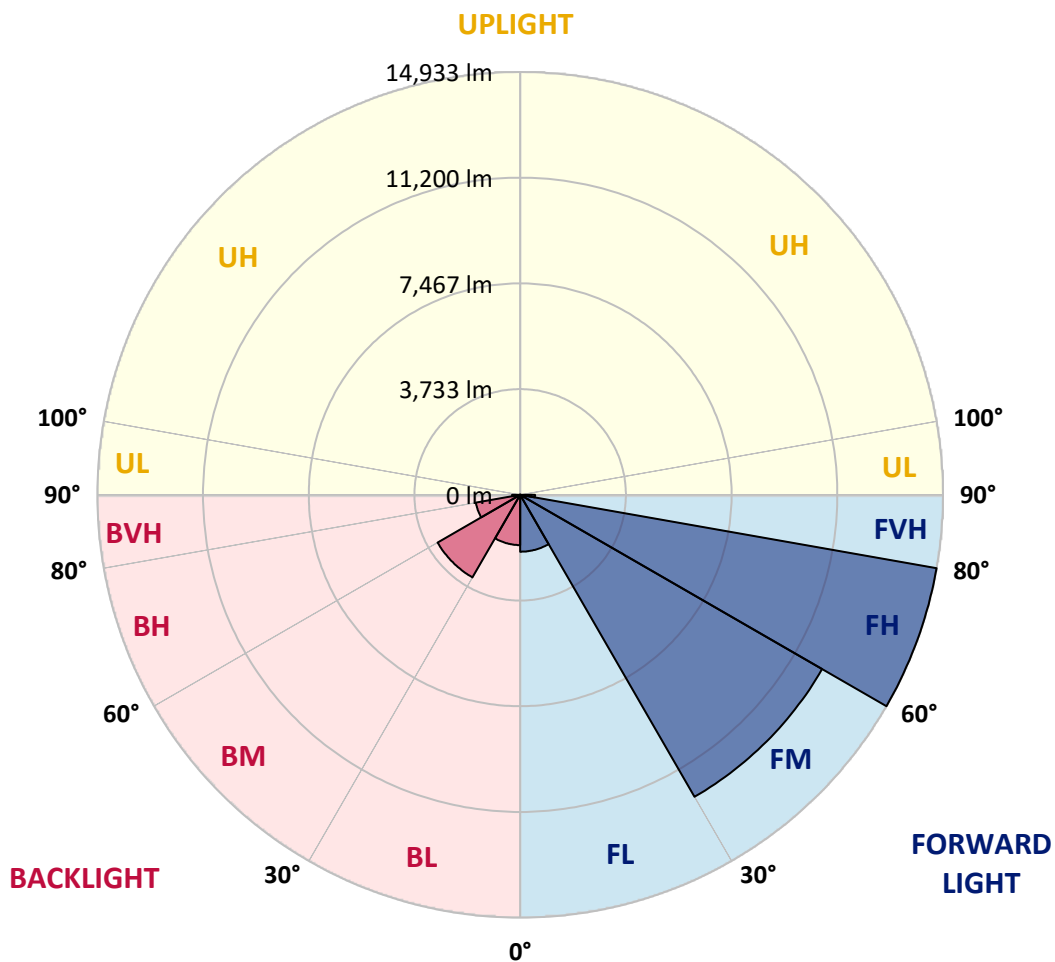
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2010.5 | 5.5 | | | |
| FM | (30°-60°) | 12313.4 | 33.5 | | | |
| FH | (60°-80°) | 14933.3 | 40.6 | | | G5 |
| FVH | (80°-90°) | 523.8 | 1.4 | | | G4/750 |
| BL | (0°-30°) | 1776.1 | 4.8 | B3/2500 | | |
| BM | (30°-60°) | 3368.2 | 9.2 | B3/5000 | | |
| BH | (60°-80°) | 1587.9 | 4.3 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 286.5 | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5554.2 | 5554.2 | 5554.2 | 5554.2 | 5554.2 | 5554.2 | 5554.2 | 5554.2 | 5554.2 | 5554.2 | 5554.2 |
| 2.5° | 5335.0 | 5345.6 | 5333.2 | 5349.1 | 5375.7 | 5404.1 | 5423.4 | 5451.8 | 5483.6 | 5527.7 | 5538.3 |
| 5° | 5084.1 | 5100.0 | 5100.0 | 5128.3 | 5179.5 | 5225.5 | 5267.9 | 5313.8 | 5381.0 | 5457.1 | 5487.0 |
| 7.5° | 4808.4 | 4817.3 | 4833.2 | 4875.6 | 4949.8 | 5015.2 | 5075.3 | 5149.5 | 5241.4 | 5342.1 | 5395.2 |
| 10° | 4476.3 | 4488.7 | 4513.4 | 4573.5 | 4674.2 | 4764.3 | 4850.8 | 4953.3 | 5070.0 | 5195.4 | 5262.6 |
| 12.5° | 4241.2 | 4237.7 | 4248.3 | 4292.5 | 4380.9 | 4490.4 | 4615.9 | 4746.6 | 4889.7 | 5036.4 | 5117.7 |
| 15° | 4161.7 | 4142.3 | 4101.7 | 4091.1 | 4138.8 | 4248.3 | 4393.3 | 4554.0 | 4725.4 | 4902.1 | 5002.8 |
| 17.5° | 4211.2 | 4177.6 | 4066.3 | 3985.1 | 3978.0 | 4061.0 | 4214.7 | 4395.0 | 4592.9 | 4808.4 | 4933.9 |
| 20° | 4522.2 | 4442.7 | 4168.8 | 3979.8 | 3914.3 | 3954.9 | 4089.3 | 4280.1 | 4513.4 | 4799.6 | 4960.4 |
| 22.5° | 5266.1 | 5149.5 | 4568.2 | 4216.5 | 3995.7 | 3946.1 | 4046.9 | 4250.1 | 4522.2 | 4909.1 | 5114.2 |
| 25° | 6349.4 | 6183.4 | 5253.7 | 4806.7 | 4350.9 | 4087.5 | 4110.5 | 4319.1 | 4647.7 | 5163.6 | 5411.1 |
| 27.5° | 7204.8 | 7097.0 | 6149.7 | 5639.0 | 4997.5 | 4469.2 | 4317.3 | 4492.2 | 4903.8 | 5580.7 | 5833.5 |
| 30° | 7713.7 | 7648.3 | 7107.6 | 6582.7 | 5822.9 | 5077.1 | 4713.0 | 4817.3 | 5305.0 | 6158.6 | 6367.0 |
| 32.5° | 8303.9 | 8265.0 | 7999.9 | 7517.6 | 6713.5 | 5875.9 | 5340.3 | 5303.2 | 5842.2 | 6853.1 | 6948.5 |
| 35° | 8915.4 | 8903.0 | 8747.4 | 8401.0 | 7669.5 | 6929.0 | 6172.8 | 5921.7 | 6427.3 | 7574.1 | 7514.1 |
| 37.5° | 9484.3 | 9463.1 | 9373.0 | 9171.6 | 8669.7 | 8060.0 | 7021.0 | 6556.2 | 7058.1 | 8263.2 | 7996.4 |
| 40° | 10532.4 | 10366.3 | 10057.0 | 9905.0 | 9680.6 | 9012.5 | 7694.3 | 7148.3 | 7711.9 | 8920.7 | 8413.4 |
| 42.5° | 11809.9 | 11539.5 | 10963.5 | 10755.0 | 10723.2 | 9763.6 | 8153.7 | 7722.5 | 8371.0 | 9572.8 | 8823.5 |
| 45° | 12815.5 | 12561.0 | 12064.4 | 11801.2 | 11917.9 | 10444.0 | 8614.9 | 8335.7 | 9049.6 | 10256.7 | 9245.9 |
| 47.5° | 13888.2 | 13488.8 | 12831.4 | 12910.9 | 13165.4 | 11087.2 | 9085.0 | 8994.9 | 9793.6 | 11021.8 | 9770.7 |
| 50° | 13927.1 | 13621.3 | 13333.4 | 13808.7 | 14204.4 | 11679.3 | 9673.5 | 9685.9 | 10703.8 | 11984.9 | 10468.7 |
| 52.5° | 13119.4 | 13054.1 | 13511.8 | 14259.2 | 14830.1 | 12147.5 | 10343.3 | 10399.8 | 11868.2 | 13091.2 | 11235.7 |
| 55° | 12836.7 | 12762.5 | 13291.0 | 14102.0 | 14914.9 | 12534.5 | 11069.5 | 11172.0 | 13276.7 | 14257.4 | 11983.2 |
| 57.5° | 13525.9 | 13361.6 | 13397.0 | 14027.8 | 14708.2 | 12958.7 | 11861.2 | 12068.0 | 14807.1 | 15277.1 | 12463.9 |
| 60° | 15452.1 | 15100.5 | 14432.4 | 14416.5 | 14819.5 | 13594.8 | 12776.7 | 13029.3 | 16397.7 | 15765.0 | 12276.5 |
| 62.5° | 18154.1 | 17802.5 | 16551.4 | 15736.7 | 15676.5 | 14644.4 | 13900.6 | 13967.7 | 17316.4 | 15104.0 | 11133.1 |
| 65° | 21078.8 | 20764.2 | 19366.4 | 18216.0 | 17661.0 | 16383.4 | 15206.5 | 14386.5 | 17016.1 | 13285.6 | 9132.7 |
| 67.5° | 24629.0 | 24291.4 | 23089.9 | 22027.8 | 21494.0 | 19189.8 | 16123.7 | 13985.4 | 15109.3 | 10292.1 | 6565.1 |
| 70° | 27111.9 | 26767.3 | 26293.7 | 27154.3 | 28460.2 | 23238.3 | 16242.1 | 12354.3 | 11285.1 | 6840.8 | 3951.4 |
| 72.5° | 23872.6 | 23711.9 | 24576.0 | 28200.5 | 33639.8 | 25694.6 | 14681.7 | 8994.9 | 6554.5 | 3631.6 | 2286.7 |
| 73° | 21872.2 | 21836.9 | 23310.7 | 27467.1 | 33677.0 | 25316.5 | 13997.7 | 8360.4 | 5621.4 | 3212.7 | 2090.5 |
| 75° | 9876.8 | 10161.2 | 13391.7 | 20979.8 | 29259.1 | 20861.3 | 9852.0 | 4796.1 | 3175.6 | 2219.5 | 1578.1 |
| 77.5° | 2373.3 | 2472.2 | 4190.0 | 9963.3 | 18477.5 | 12432.1 | 4463.9 | 2371.5 | 2030.4 | 1567.5 | 1152.2 |
| 80° | 1010.9 | 1044.4 | 1613.4 | 3681.1 | 8699.7 | 5006.4 | 2056.9 | 1588.7 | 1404.9 | 1093.9 | 807.5 |
| 82.5° | 562.0 | 597.4 | 915.5 | 1669.9 | 3511.4 | 1707.0 | 1254.8 | 1106.3 | 924.3 | 659.1 | 524.9 |
| 85° | 318.1 | 337.6 | 535.5 | 933.1 | 1488.0 | 685.6 | 751.1 | 735.2 | 521.3 | 339.3 | 258.1 |
| 87.5° | 150.1 | 162.6 | 258.1 | 433.0 | 583.2 | 268.7 | 381.7 | 420.5 | 327.0 | 206.8 | 134.2 |
| 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° | 5554.2 | 5554.2 | 5554.2 | 5554.2 | 5554.2 | 5554.2 | 5554.2 | 5554.2 | 5554.2 | 5554.2 |
| 2.5° | 5550.6 | 5582.4 | 5619.5 | 5639.0 | 5656.6 | 5677.8 | 5699.1 | 5699.1 | 5702.7 | 5704.4 |
| 5° | 5511.8 | 5577.1 | 5635.4 | 5660.2 | 5665.5 | 5665.5 | 5660.2 | 5632.0 | 5607.2 | 5617.8 |
| 7.5° | 5430.6 | 5526.0 | 5575.4 | 5566.5 | 5499.5 | 5421.7 | 5356.4 | 5276.7 | 5236.1 | 5229.0 |
| 10° | 5313.8 | 5423.4 | 5432.3 | 5343.8 | 5177.8 | 5011.7 | 4873.8 | 4739.5 | 4675.9 | 4660.0 |
| 12.5° | 5184.8 | 5285.5 | 5229.0 | 5047.0 | 4780.2 | 4538.1 | 4363.2 | 4227.1 | 4167.0 | 4151.1 |
| 15° | 5080.6 | 5149.5 | 5006.4 | 4720.1 | 4384.4 | 4128.2 | 3983.3 | 3882.5 | 3840.1 | 3827.7 |
| 17.5° | 5025.8 | 5040.0 | 4778.4 | 4391.5 | 4034.5 | 3820.6 | 3730.5 | 3682.8 | 3666.9 | 3658.1 |
| 20° | 5052.3 | 4953.3 | 4561.1 | 4085.8 | 3748.2 | 3597.9 | 3576.7 | 3564.4 | 3560.8 | 3555.5 |
| 22.5° | 5184.8 | 4926.8 | 4361.5 | 3795.9 | 3497.2 | 3431.9 | 3449.5 | 3447.8 | 3444.2 | 3440.7 |
| 25° | 5421.7 | 4949.8 | 4167.0 | 3520.2 | 3287.0 | 3272.7 | 3304.7 | 3304.7 | 3290.5 | 3290.5 |
| 27.5° | 5734.5 | 4997.5 | 3949.6 | 3258.6 | 3096.1 | 3097.9 | 3122.6 | 3115.5 | 3099.6 | 3089.0 |
| 30° | 6116.2 | 5027.6 | 3695.2 | 3023.7 | 2917.5 | 2910.5 | 2917.5 | 2887.5 | 2839.8 | 2836.3 |
| 32.5° | 6506.8 | 4990.4 | 3400.1 | 2815.1 | 2728.5 | 2712.6 | 2707.3 | 2664.9 | 2610.1 | 2594.2 |
| 35° | 6860.1 | 4854.4 | 3099.6 | 2649.0 | 2548.2 | 2512.9 | 2537.6 | 2523.5 | 2474.0 | 2461.6 |
| 37.5° | 7118.2 | 4601.7 | 2829.2 | 2502.3 | 2419.2 | 2410.4 | 2426.3 | 2431.6 | 2373.3 | 2360.9 |
| 40° | 7291.4 | 4258.9 | 2597.8 | 2378.6 | 2394.5 | 2360.9 | 2307.9 | 2270.8 | 2253.2 | 2247.9 |
| 42.5° | 7431.0 | 3901.9 | 2403.3 | 2320.3 | 2399.8 | 2302.6 | 2187.7 | 2127.6 | 2159.4 | 2173.5 |
| 45° | 7591.8 | 3553.8 | 2240.7 | 2247.9 | 2373.3 | 2235.4 | 2104.6 | 2046.3 | 2058.7 | 2062.2 |
| 47.5° | 7812.6 | 3129.7 | 2065.8 | 2131.1 | 2285.0 | 2189.4 | 2053.4 | 1970.4 | 1912.1 | 1885.5 |
| 50° | 8118.4 | 2627.8 | 1883.7 | 2000.4 | 2198.3 | 2155.9 | 1973.9 | 1885.5 | 1777.7 | 1753.0 |
| 52.5° | 8330.4 | 2159.4 | 1733.5 | 1890.8 | 2120.5 | 2088.7 | 1910.3 | 1795.4 | 1682.3 | 1661.1 |
| 55° | 8215.5 | 1793.6 | 1602.8 | 1768.9 | 2018.1 | 2005.7 | 1857.2 | 1703.5 | 1615.2 | 1597.5 |
| 57.5° | 7641.3 | 1562.2 | 1502.1 | 1654.0 | 1892.5 | 1935.0 | 1786.5 | 1625.8 | 1562.2 | 1549.8 |
| 60° | 6545.6 | 1417.3 | 1438.5 | 1576.3 | 1790.1 | 1864.3 | 1715.9 | 1583.4 | 1541.0 | 1532.1 |
| 62.5° | 5078.8 | 1320.1 | 1390.8 | 1519.8 | 1710.6 | 1814.8 | 1677.0 | 1578.1 | 1562.2 | 1551.6 |
| 65° | 3638.7 | 1242.4 | 1339.6 | 1463.2 | 1638.1 | 1768.9 | 1662.9 | 1571.0 | 1574.5 | 1565.7 |
| 67.5° | 2472.2 | 1173.4 | 1277.7 | 1399.6 | 1567.5 | 1728.2 | 1643.4 | 1546.3 | 1590.4 | 1579.8 |
| 70° | 1730.0 | 1106.3 | 1205.2 | 1318.4 | 1479.1 | 1671.7 | 1608.1 | 1509.2 | 1505.6 | 1463.2 |
| 72.5° | 1350.2 | 1017.9 | 1106.3 | 1205.2 | 1366.1 | 1592.2 | 1537.4 | 1426.1 | 1367.8 | 1323.7 |
| 73° | 1288.3 | 996.7 | 1081.5 | 1180.5 | 1341.3 | 1572.8 | 1518.0 | 1403.2 | 1337.8 | 1297.2 |
| 75° | 1065.6 | 904.9 | 982.6 | 1070.9 | 1235.3 | 1480.9 | 1422.6 | 1298.9 | 1215.9 | 1191.1 |
| 77.5° | 837.6 | 774.0 | 848.2 | 927.8 | 1088.6 | 1346.6 | 1281.3 | 1162.8 | 1116.9 | 1095.7 |
| 80° | 620.3 | 641.5 | 706.8 | 777.6 | 943.7 | 1203.4 | 1145.1 | 1026.8 | 1231.8 | 1180.5 |
| 82.5° | 436.4 | 486.0 | 546.1 | 609.7 | 791.6 | 1063.9 | 993.2 | 871.3 | 901.3 | 749.2 |
| 85° | 258.1 | 318.1 | 374.7 | 429.4 | 570.9 | 881.9 | 820.0 | 694.5 | 569.0 | 542.5 |
| 87.5° | 150.1 | 176.7 | 192.6 | 249.2 | 392.3 | 664.4 | 577.9 | 514.2 | 295.2 | 199.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)