

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: P454863

Luminaire Tested: **GALN-SA6A-730-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24939 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

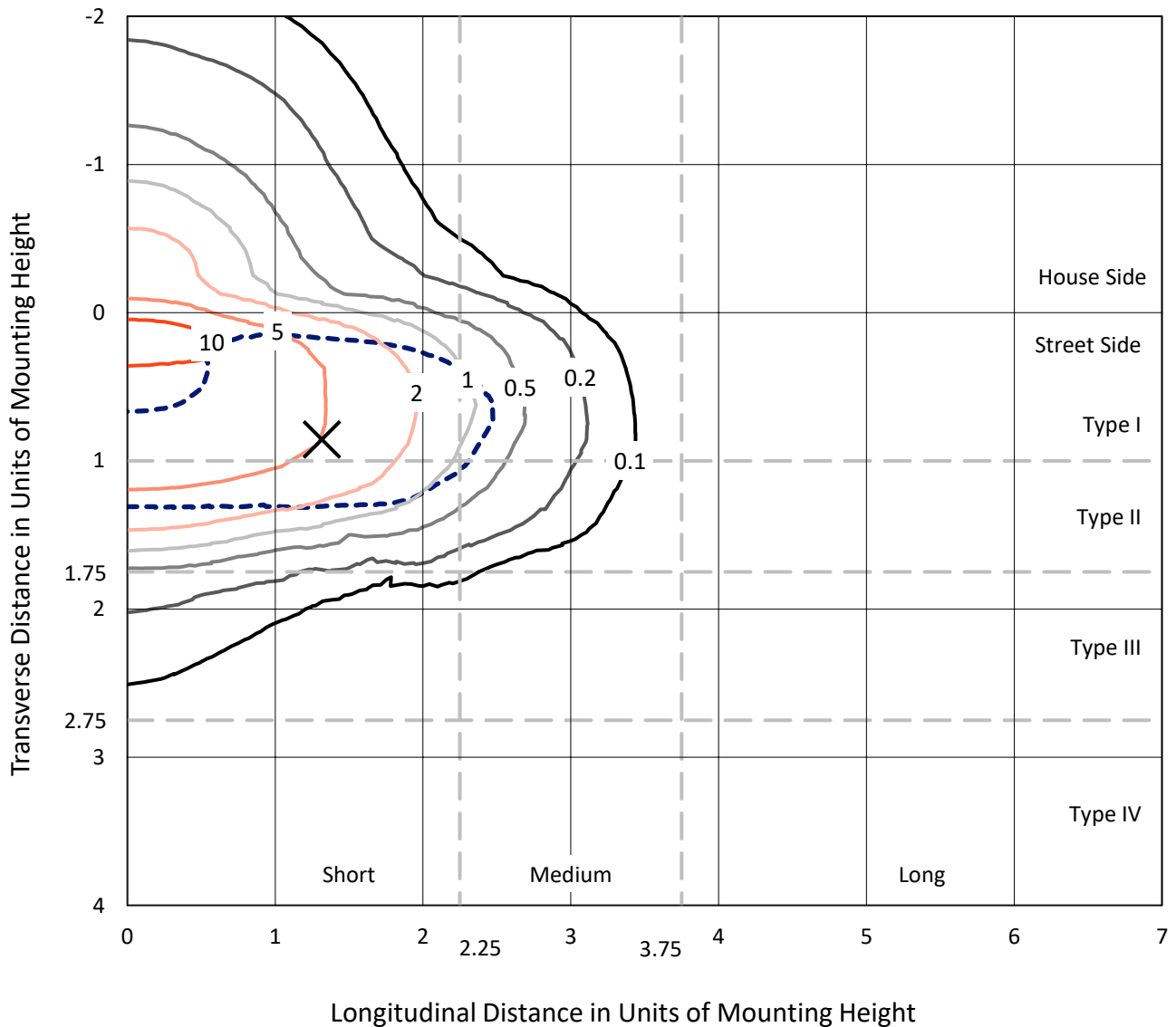
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

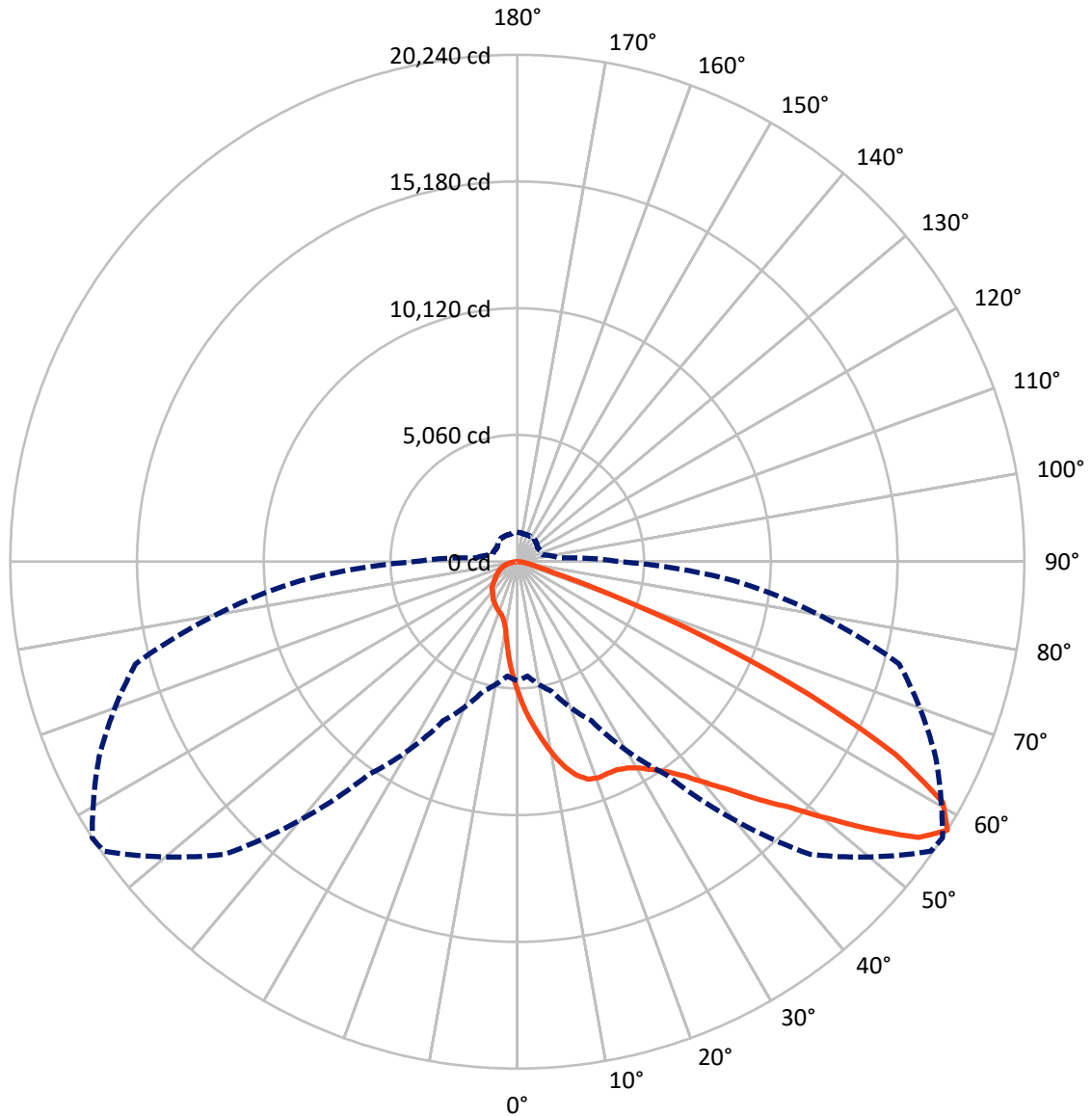
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3792.5 | 0.0 | 3792.5 |
| | % Fixture | 15.2 | 0.0 | 15.2 |
| Street Side | Lumens | 21146.5 | 0.0 | 21146.5 |
| | % Fixture | 84.8 | 0.0 | 84.8 |
| Total | Lumens | 24939.0 | 0.0 | 24939.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 503.6 | 2.0 |
| 10°-20° | 1484.0 | 6.0 |
| 20°-30° | 2464.2 | 9.9 |
| 30°-40° | 3711.8 | 14.9 |
| 40°-50° | 5573.0 | 22.3 |
| 50°-60° | 6246.6 | 25.0 |
| 60°-70° | 3655.8 | 14.7 |
| 70°-80° | 1081.4 | 4.3 |
| 80°-90° | 218.6 | 0.9 |
| 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° | 24939.0 | 100.0 |
| 0°-180° | 24939.0 | 100.0 |

Coefficient of Utilization



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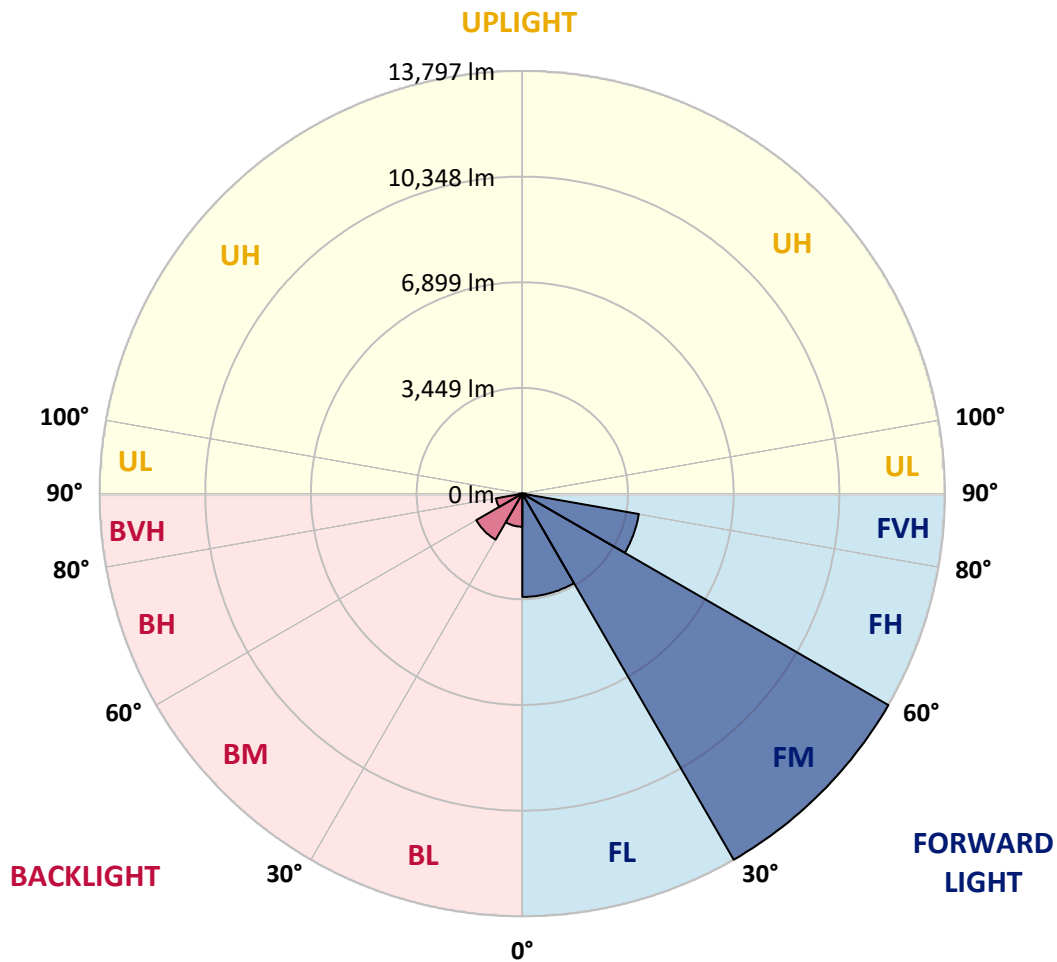
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3371.2 | 13.5 | | | |
| FM | (30°-60°) | 13797.4 | 55.3 | | | |
| FH | (60°-80°) | 3864.5 | 15.5 | | | G2/5000 |
| FVH | (80°-90°) | 113.4 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 1080.6 | 4.3 | B3/2500 | | |
| BM | (30°-60°) | 1734.1 | 7.0 | B2/2500 | | |
| BH | (60°-80°) | 872.6 | 3.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 105.2 | 0.4 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 5239.4 | 5239.4 | 5239.4 | 5239.4 | 5239.4 | 5239.4 | 5239.4 | 5239.4 | 5239.4 | 5239.4 | 5239.4 |
| 2.5° | 6510.3 | 6439.4 | 6383.4 | 6334.2 | 6270.1 | 6096.7 | 5923.3 | 5920.6 | 5782.7 | 5569.8 | 5351.3 |
| 5° | 7571.1 | 7475.5 | 7487.8 | 7334.9 | 7182.0 | 6930.8 | 6563.6 | 6544.5 | 6251.0 | 5852.3 | 5446.9 |
| 7.5° | 8261.8 | 8263.2 | 8225.0 | 8137.6 | 7972.4 | 7687.1 | 7270.7 | 7176.5 | 6768.4 | 6163.6 | 5556.1 |
| 10° | 8226.3 | 8263.2 | 8327.3 | 8402.4 | 8452.9 | 8312.3 | 7932.8 | 7818.1 | 7287.1 | 6540.4 | 5677.6 |
| 12.5° | 7754.0 | 7811.3 | 7902.8 | 8091.2 | 8395.6 | 8627.7 | 8498.0 | 8405.2 | 7887.8 | 6915.8 | 5811.4 |
| 15° | 7459.1 | 7493.2 | 7543.8 | 7670.7 | 7998.3 | 8554.0 | 8889.8 | 8840.6 | 8454.3 | 7340.3 | 5961.6 |
| 17.5° | 7369.0 | 7403.1 | 7419.5 | 7497.3 | 7730.8 | 8300.0 | 9044.0 | 9131.4 | 8956.7 | 7730.8 | 6113.1 |
| 20° | 7459.1 | 7475.5 | 7475.5 | 7521.9 | 7704.8 | 8151.2 | 9037.2 | 9213.3 | 9368.9 | 8199.0 | 6255.1 |
| 22.5° | 7695.3 | 7702.1 | 7692.6 | 7708.9 | 7845.4 | 8192.2 | 8973.1 | 9191.5 | 9702.0 | 8596.3 | 6365.6 |
| 25° | 8078.9 | 8089.8 | 8027.0 | 7988.8 | 8088.4 | 8372.4 | 9008.5 | 9209.2 | 9962.8 | 8975.8 | 6439.4 |
| 27.5° | 8514.4 | 8528.0 | 8451.6 | 8362.8 | 8409.2 | 8594.9 | 9147.8 | 9328.0 | 10158.0 | 9349.8 | 6485.8 |
| 30° | 9048.1 | 9053.6 | 8925.3 | 8818.8 | 8788.8 | 8926.6 | 9385.3 | 9553.2 | 10401.0 | 9790.8 | 6555.4 |
| 32.5° | 9594.2 | 9635.1 | 9470.0 | 9319.8 | 9269.3 | 9311.6 | 9736.2 | 9898.6 | 10690.4 | 10264.5 | 6667.3 |
| 35° | 10336.8 | 10343.6 | 10145.7 | 9962.8 | 9796.2 | 9850.8 | 10185.3 | 10302.7 | 11090.4 | 10811.9 | 6825.7 |
| 37.5° | 11263.8 | 11326.5 | 11053.5 | 10712.2 | 10507.5 | 10428.3 | 10728.6 | 10856.9 | 11651.5 | 11483.5 | 7064.6 |
| 40° | 12293.1 | 12316.3 | 12082.8 | 11869.9 | 11495.8 | 11266.5 | 11474.0 | 11613.2 | 12343.6 | 12284.9 | 7341.7 |
| 42.5° | 12940.1 | 12990.7 | 13008.4 | 12986.6 | 12705.3 | 12320.4 | 12399.5 | 12465.1 | 13162.7 | 13037.1 | 7625.7 |
| 45° | 13158.6 | 13233.6 | 13487.6 | 14025.4 | 14055.5 | 13675.9 | 13491.7 | 13554.5 | 14055.5 | 13796.1 | 7897.3 |
| 47.5° | 12796.8 | 12925.1 | 13393.4 | 14496.4 | 15322.3 | 15351.0 | 14795.4 | 14657.5 | 14869.1 | 14425.4 | 8093.9 |
| 50° | 11861.7 | 11889.0 | 12605.7 | 14202.9 | 15916.1 | 16952.3 | 16377.6 | 16120.9 | 15641.7 | 14890.9 | 8229.1 |
| 52.5° | 10414.6 | 10446.0 | 11046.7 | 12839.1 | 15550.3 | 18071.7 | 18228.7 | 17770.0 | 16426.7 | 15252.7 | 8317.8 |
| 55° | 7730.8 | 7912.3 | 8573.1 | 10305.4 | 13816.6 | 17966.6 | 19700.3 | 19439.6 | 17375.5 | 15539.4 | 8457.0 |
| 57.5° | 4753.4 | 4586.9 | 5370.5 | 7011.3 | 10391.4 | 16522.3 | 20154.9 | 20239.5 | 18419.8 | 15779.6 | 8690.5 |
| 60° | 2187.0 | 2219.7 | 2543.3 | 3616.2 | 6334.2 | 12925.1 | 18983.6 | 19518.7 | 18997.3 | 15771.4 | 8749.2 |
| 62.5° | 1507.1 | 1477.1 | 1395.2 | 1587.7 | 2888.6 | 8174.4 | 16034.9 | 16941.4 | 17839.6 | 15281.4 | 8515.7 |
| 65° | 1347.4 | 1317.4 | 1159.0 | 1105.8 | 1326.9 | 3563.0 | 11656.9 | 12800.9 | 15020.6 | 14044.5 | 7934.2 |
| 67.5° | 1258.7 | 1217.7 | 1053.9 | 950.1 | 947.4 | 1418.4 | 6873.5 | 8250.9 | 11140.9 | 11874.0 | 6874.8 |
| 70° | 1165.8 | 1133.1 | 970.6 | 855.9 | 806.8 | 891.4 | 3021.0 | 3954.8 | 7233.9 | 8556.7 | 5355.4 |
| 72.5° | 1073.0 | 1034.8 | 888.7 | 765.8 | 701.7 | 667.6 | 1157.6 | 1505.7 | 4087.2 | 5130.2 | 3283.2 |
| 75° | 937.8 | 918.7 | 794.5 | 693.5 | 623.9 | 539.2 | 734.4 | 838.2 | 1954.9 | 2356.2 | 1647.7 |
| 77.5° | 820.4 | 800.0 | 705.8 | 606.1 | 555.6 | 438.2 | 521.5 | 569.3 | 824.5 | 955.6 | 744.0 |
| 80° | 600.7 | 621.1 | 595.2 | 535.1 | 495.5 | 344.0 | 350.8 | 390.4 | 490.1 | 542.0 | 454.6 |
| 82.5° | 380.9 | 419.1 | 458.7 | 412.3 | 375.4 | 271.7 | 243.0 | 258.0 | 334.5 | 354.9 | 202.0 |
| 85° | 159.7 | 162.5 | 266.2 | 251.2 | 214.3 | 161.1 | 146.1 | 154.3 | 178.8 | 187.0 | 94.2 |
| 87.5° | 61.4 | 60.1 | 94.2 | 87.4 | 66.9 | 46.4 | 46.4 | 51.9 | 71.0 | 65.5 | 30.0 |
| 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° | 5239.4 | 5239.4 | 5239.4 | 5239.4 | 5239.4 | 5239.4 | 5239.4 | 5239.4 | 5239.4 | 5239.4 | 5239.4 |
| 2.5° | 5257.1 | 5160.2 | 4967.7 | 4728.8 | 4554.1 | 4357.5 | 4184.1 | 4059.9 | 4013.5 | 3991.7 | 3950.7 |
| 5° | 5253.0 | 5061.9 | 4663.3 | 4245.6 | 3909.8 | 3565.7 | 3275.0 | 3086.6 | 3070.2 | 2944.6 | 2932.3 |
| 7.5° | 5254.4 | 4962.3 | 4327.5 | 3713.2 | 3201.2 | 2849.0 | 2608.8 | 2546.0 | 2470.9 | 2451.8 | 2461.3 |
| 10° | 5258.5 | 4835.3 | 3967.1 | 3186.2 | 2690.7 | 2460.0 | 2369.9 | 2345.3 | 2348.0 | 2356.2 | 2357.6 |
| 12.5° | 5264.0 | 4712.5 | 3593.0 | 2786.2 | 2404.0 | 2308.4 | 2298.9 | 2320.7 | 2343.9 | 2361.7 | 2365.8 |
| 15° | 5270.8 | 4571.8 | 3228.6 | 2464.1 | 2260.7 | 2252.5 | 2283.9 | 2320.7 | 2353.5 | 2379.4 | 2383.5 |
| 17.5° | 5262.6 | 4408.0 | 2922.8 | 2266.1 | 2181.5 | 2221.1 | 2273.0 | 2319.4 | 2349.4 | 2374.0 | 2376.7 |
| 20° | 5243.5 | 4225.1 | 2627.9 | 2126.9 | 2132.3 | 2196.5 | 2252.5 | 2296.2 | 2328.9 | 2341.2 | 2350.8 |
| 22.5° | 5169.8 | 4006.7 | 2371.2 | 2019.0 | 2073.6 | 2162.4 | 2229.3 | 2255.2 | 2218.3 | 2192.4 | 2199.2 |
| 25° | 5044.2 | 3722.7 | 2132.3 | 1931.7 | 2020.4 | 2114.6 | 2182.9 | 2120.1 | 2090.0 | 2079.1 | 2084.6 |
| 27.5° | 4887.2 | 3411.5 | 1952.1 | 1840.2 | 1952.1 | 2061.4 | 2042.2 | 2031.3 | 2017.7 | 1999.9 | 2004.0 |
| 30° | 4717.9 | 3107.1 | 1799.3 | 1769.2 | 1878.4 | 1941.2 | 1949.4 | 1967.2 | 1952.1 | 1924.8 | 1935.8 |
| 32.5° | 4560.9 | 2820.4 | 1683.2 | 1709.2 | 1826.6 | 1817.0 | 1878.4 | 1898.9 | 1829.3 | 1737.8 | 1741.9 |
| 35° | 4427.1 | 2554.2 | 1595.8 | 1650.5 | 1737.8 | 1741.9 | 1803.3 | 1732.4 | 1657.3 | 1613.6 | 1616.3 |
| 37.5° | 4326.1 | 2346.7 | 1538.5 | 1599.9 | 1624.5 | 1676.4 | 1643.6 | 1606.8 | 1597.2 | 1567.2 | 1568.5 |
| 40° | 4266.1 | 2165.1 | 1501.7 | 1560.4 | 1556.3 | 1591.8 | 1486.6 | 1523.5 | 1537.1 | 1527.6 | 1529.0 |
| 42.5° | 4206.0 | 2036.8 | 1463.4 | 1505.7 | 1504.4 | 1434.8 | 1411.6 | 1443.0 | 1478.4 | 1482.5 | 1479.8 |
| 45° | 4158.2 | 1937.1 | 1423.8 | 1422.5 | 1449.8 | 1340.6 | 1333.7 | 1352.9 | 1403.4 | 1427.9 | 1426.6 |
| 47.5° | 4105.0 | 1853.9 | 1363.8 | 1325.5 | 1333.7 | 1281.9 | 1270.9 | 1279.1 | 1340.6 | 1380.2 | 1391.1 |
| 50° | 4038.1 | 1770.6 | 1288.7 | 1236.8 | 1202.7 | 1227.3 | 1230.0 | 1231.4 | 1292.8 | 1337.8 | 1347.4 |
| 52.5° | 3984.8 | 1707.8 | 1202.7 | 1164.5 | 1123.5 | 1178.1 | 1198.6 | 1201.3 | 1238.2 | 1275.0 | 1281.9 |
| 55° | 4016.2 | 1672.3 | 1118.0 | 1090.7 | 1053.9 | 1127.6 | 1167.2 | 1172.7 | 1180.8 | 1208.1 | 1212.2 |
| 57.5° | 4110.4 | 1680.5 | 1049.8 | 1014.3 | 987.0 | 1067.5 | 1134.4 | 1138.5 | 1133.1 | 1165.8 | 1171.3 |
| 60° | 4139.1 | 1676.4 | 999.3 | 929.7 | 913.3 | 1003.4 | 1086.6 | 1094.8 | 1093.5 | 1141.3 | 1150.8 |
| 62.5° | 4019.0 | 1624.5 | 948.8 | 858.7 | 847.8 | 937.8 | 1019.8 | 1052.5 | 1059.3 | 1127.6 | 1139.9 |
| 65° | 3736.4 | 1518.0 | 881.9 | 783.6 | 783.6 | 868.2 | 955.6 | 1000.6 | 1019.8 | 1111.2 | 1124.9 |
| 67.5° | 3363.7 | 1392.4 | 813.6 | 719.4 | 716.7 | 801.3 | 887.3 | 933.8 | 963.8 | 1088.0 | 1096.2 |
| 70° | 2791.7 | 1223.2 | 729.0 | 649.8 | 649.8 | 726.3 | 804.1 | 860.0 | 903.7 | 1044.3 | 1044.3 |
| 72.5° | 1912.6 | 1017.0 | 626.6 | 570.6 | 572.0 | 643.0 | 722.2 | 785.0 | 836.8 | 957.0 | 959.7 |
| 75° | 1209.5 | 794.5 | 514.7 | 486.0 | 491.4 | 558.3 | 640.2 | 705.8 | 809.5 | 946.0 | 950.1 |
| 77.5° | 643.0 | 558.3 | 409.5 | 402.7 | 409.5 | 471.0 | 562.4 | 652.5 | 812.3 | 820.4 | 806.8 |
| 80° | 416.4 | 395.9 | 323.5 | 309.9 | 312.6 | 379.5 | 501.0 | 619.8 | 652.5 | 660.7 | 630.7 |
| 82.5° | 226.6 | 251.2 | 229.3 | 215.7 | 215.7 | 296.2 | 427.3 | 492.8 | 468.2 | 389.1 | 371.3 |
| 85° | 96.9 | 117.4 | 118.8 | 103.8 | 99.7 | 182.9 | 286.7 | 268.9 | 249.8 | 238.9 | 236.2 |
| 87.5° | 27.3 | 38.2 | 38.2 | 28.7 | 21.8 | 50.5 | 57.3 | 16.4 | 0.0 | 1.4 | 2.7 |
| 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)