

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: P454125

Luminaire Tested: **GALN-SA5B-722-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-722-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21349 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

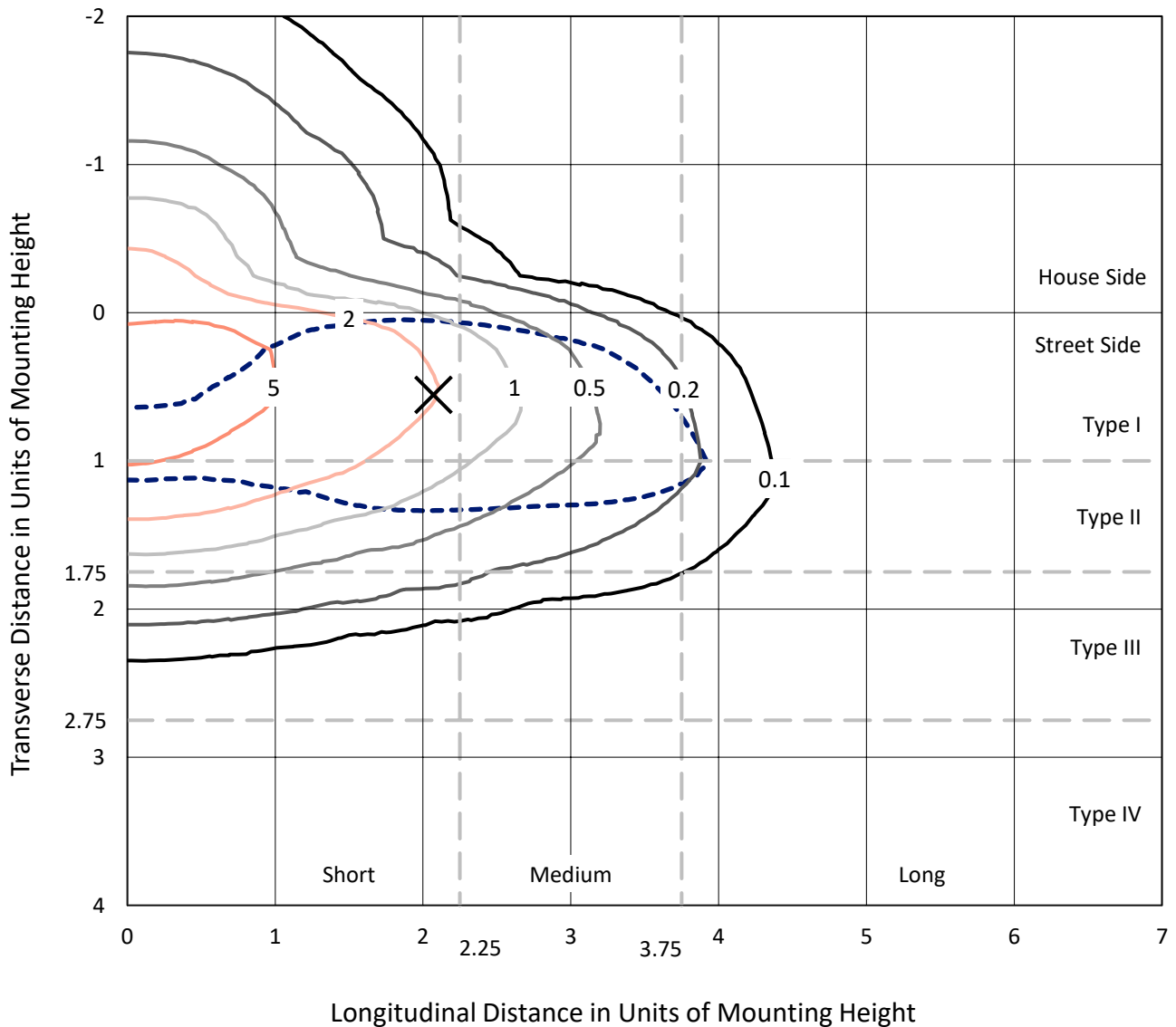
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

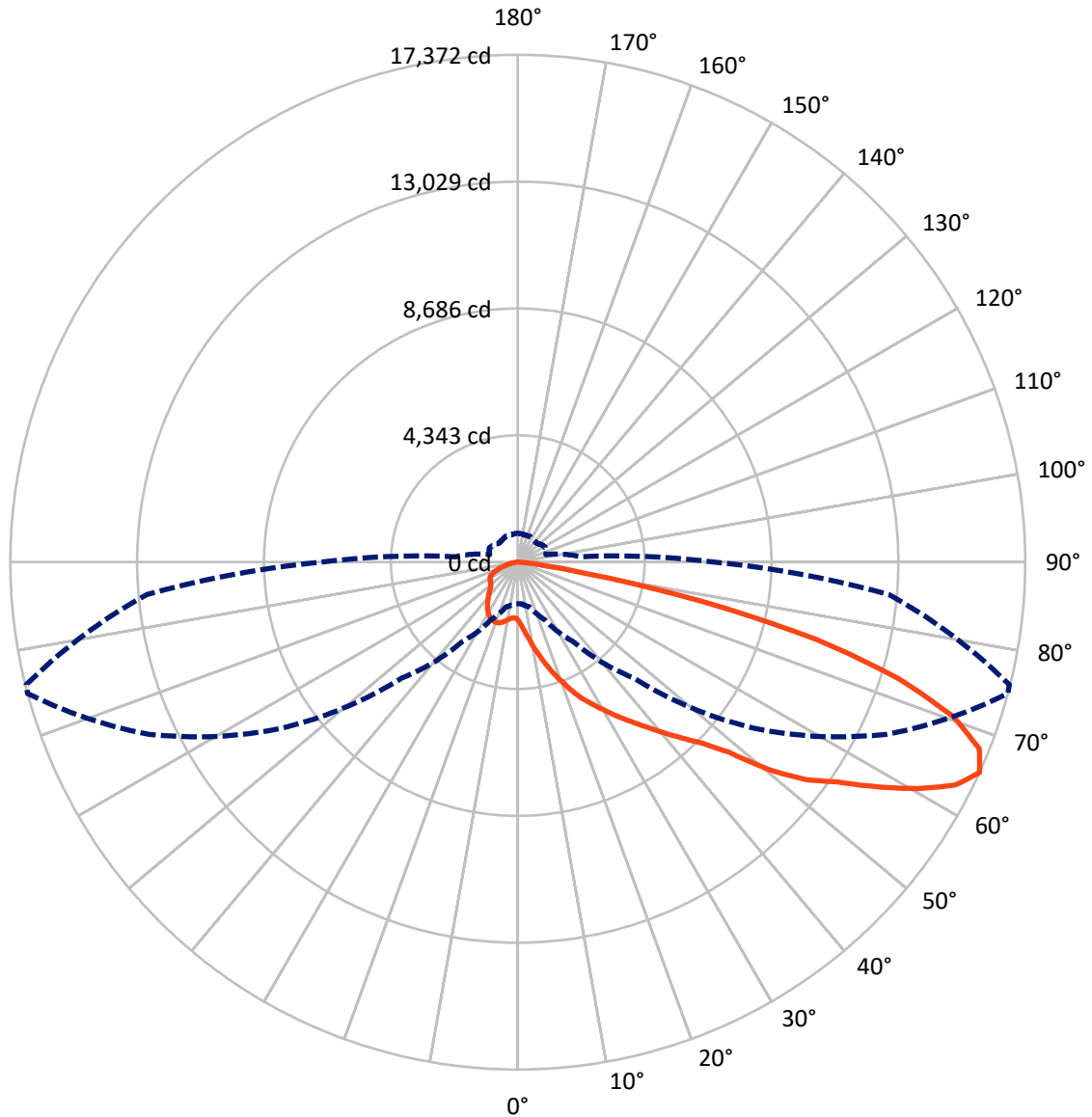
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3589.0 | 0.0 | 3589.0 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 17760.0 | 0.0 | 17760.0 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 21349.0 | 0.0 | 21349.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 241.0 | 1.1 |
| 10°-20° | 944.0 | 4.4 |
| 20°-30° | 1823.4 | 8.5 |
| 30°-40° | 2961.8 | 13.9 |
| 40°-50° | 4074.2 | 19.1 |
| 50°-60° | 4810.2 | 22.5 |
| 60°-70° | 4214.6 | 19.7 |
| 70°-80° | 2012.1 | 9.4 |
| 80°-90° | 267.7 | 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° | 21349.0 | 100.0 |
| 0°-180° | 21349.0 | 100.0 |

Coefficient of Utilization



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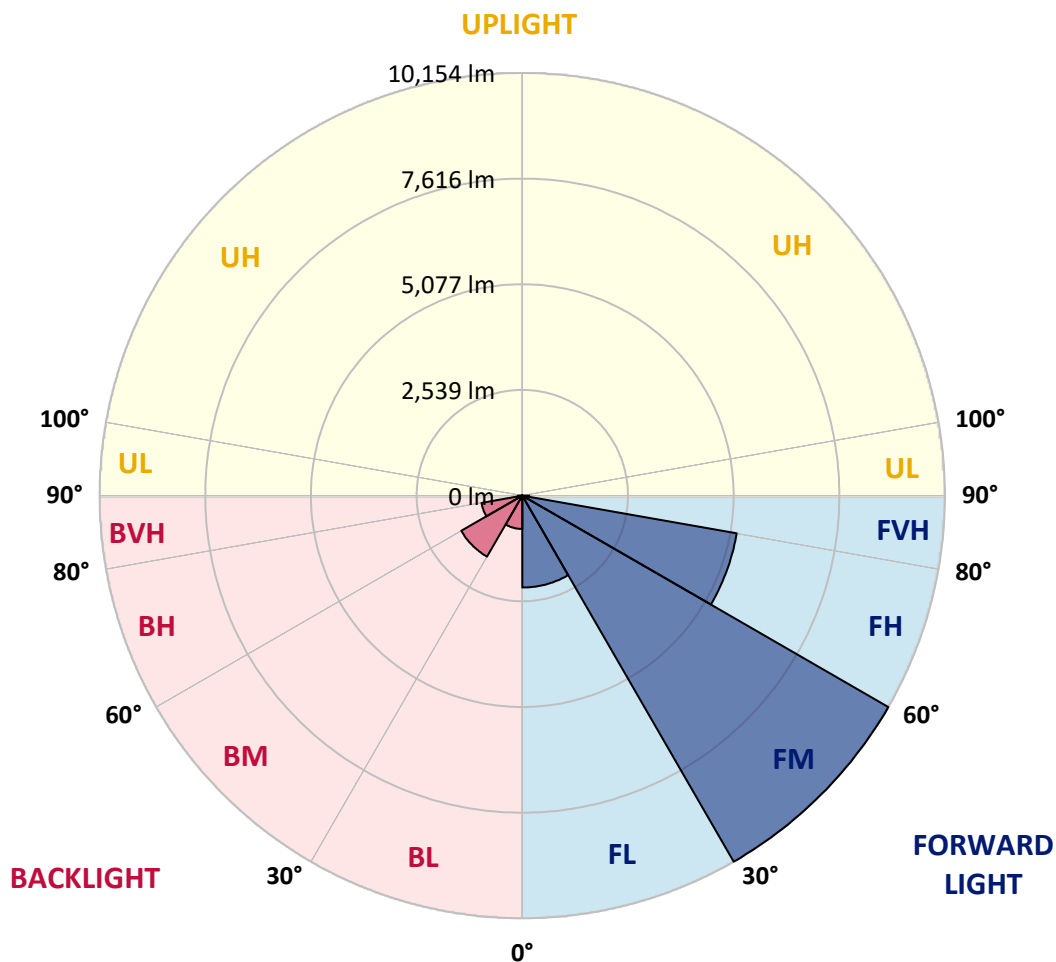
CATALOG NUMBER: GALN-SA5B-722-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2207.1 | 10.3 | | | |
| FM | (30°-60°) | 10154.0 | 47.6 | | | |
| FH | (60°-80°) | 5231.5 | 24.5 | | | G3/7500 |
| FVH | (80°-90°) | 167.3 | 0.8 | | | G2/225 |
| BL | (0°-30°) | 801.2 | 3.8 | B2/1000 | | |
| BM | (30°-60°) | 1692.2 | 7.9 | B2/2500 | | |
| BH | (60°-80°) | 995.2 | 4.7 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 100.4 | 0.5 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 1983.6 | 1983.6 | 1983.6 | 1983.6 | 1983.6 | 1983.6 | 1983.6 | 1983.6 | 1983.6 | 1983.6 | 1983.6 |
| 2.5° | 2635.5 | 2618.2 | 2599.6 | 2548.7 | 2494.3 | 2432.9 | 2344.9 | 2260.3 | 2148.0 | 2144.5 | 2061.2 |
| 5° | 3366.2 | 3354.6 | 3272.4 | 3224.9 | 3098.7 | 2930.8 | 2788.4 | 2567.2 | 2362.2 | 2337.9 | 2175.8 |
| 7.5° | 4037.8 | 3992.7 | 3961.4 | 3875.7 | 3750.6 | 3535.3 | 3259.7 | 2960.9 | 2618.2 | 2585.7 | 2317.1 |
| 10° | 4543.8 | 4539.2 | 4523.0 | 4448.9 | 4355.1 | 4140.9 | 3835.2 | 3406.7 | 2942.4 | 2878.7 | 2488.5 |
| 12.5° | 4922.5 | 4926.0 | 4923.7 | 4922.5 | 4855.3 | 4673.5 | 4342.4 | 3890.8 | 3270.1 | 3224.9 | 2686.5 |
| 15° | 5171.5 | 5206.2 | 5220.1 | 5278.0 | 5283.8 | 5162.2 | 4877.3 | 4358.6 | 3639.5 | 3572.3 | 2899.5 |
| 17.5° | 5335.9 | 5353.3 | 5418.1 | 5516.5 | 5596.4 | 5574.4 | 5320.8 | 4791.7 | 4017.0 | 3904.7 | 3120.7 |
| 20° | 5493.4 | 5523.5 | 5573.3 | 5707.6 | 5848.9 | 5913.7 | 5735.4 | 5235.2 | 4391.0 | 4319.2 | 3365.0 |
| 22.5° | 5821.1 | 5863.9 | 5881.3 | 5949.6 | 6070.0 | 6184.7 | 6103.6 | 5660.1 | 4800.9 | 4703.6 | 3624.4 |
| 25° | 6375.7 | 6420.9 | 6372.3 | 6356.1 | 6395.4 | 6452.2 | 6434.8 | 6060.8 | 5187.7 | 5048.7 | 3869.9 |
| 27.5° | 7098.3 | 7104.1 | 7009.2 | 6918.8 | 6821.6 | 6792.6 | 6739.3 | 6416.3 | 5523.5 | 5407.7 | 4116.6 |
| 30° | 7874.2 | 7846.4 | 7688.9 | 7525.6 | 7361.2 | 7199.1 | 7046.2 | 6759.0 | 5897.5 | 5764.3 | 4358.6 |
| 32.5° | 8594.4 | 8579.4 | 8404.5 | 8150.9 | 7873.0 | 7720.1 | 7411.0 | 7105.3 | 6298.2 | 6169.6 | 4607.5 |
| 35° | 9134.0 | 9156.0 | 8963.8 | 8687.0 | 8383.7 | 8248.2 | 7857.9 | 7468.9 | 6712.7 | 6572.6 | 4878.5 |
| 37.5° | 9517.3 | 9505.7 | 9335.5 | 9095.8 | 8829.5 | 8711.4 | 8380.2 | 7866.0 | 7158.5 | 7024.2 | 5174.9 |
| 40° | 9653.9 | 9647.0 | 9520.8 | 9345.9 | 9176.9 | 9135.2 | 8926.7 | 8294.5 | 7669.2 | 7511.7 | 5531.6 |
| 42.5° | 9567.1 | 9582.1 | 9498.8 | 9451.3 | 9420.0 | 9450.1 | 9469.8 | 8856.1 | 8226.2 | 8081.4 | 5918.4 |
| 45° | 9300.8 | 9292.7 | 9281.1 | 9358.7 | 9534.7 | 9732.7 | 10007.1 | 9386.5 | 8831.8 | 8716.0 | 6437.1 |
| 47.5° | 8824.8 | 8882.7 | 8911.7 | 9125.9 | 9510.4 | 9979.3 | 10625.5 | 10097.4 | 9710.7 | 9609.9 | 7228.0 |
| 50° | 8159.0 | 8205.3 | 8376.7 | 8757.7 | 9330.9 | 10072.0 | 11229.9 | 11260.0 | 11176.7 | 10987.9 | 8087.2 |
| 52.5° | 7119.2 | 7191.0 | 7544.1 | 8242.4 | 8962.6 | 10033.8 | 11595.8 | 12257.0 | 12367.1 | 12225.8 | 8933.7 |
| 55° | 5955.4 | 6056.1 | 6429.0 | 7345.0 | 8455.5 | 9825.3 | 11848.3 | 12834.9 | 13273.7 | 13142.9 | 9748.9 |
| 57.5° | 4816.0 | 4922.5 | 5305.8 | 6192.8 | 7570.8 | 9364.5 | 12013.9 | 13478.7 | 14508.1 | 14337.9 | 10763.3 |
| 60° | 3609.4 | 3720.5 | 4049.4 | 4963.0 | 6310.9 | 8463.6 | 11901.6 | 14036.8 | 15741.4 | 15668.4 | 11778.8 |
| 62.5° | 2328.7 | 2451.4 | 2737.4 | 3493.6 | 4850.7 | 7232.6 | 11300.6 | 14344.9 | 16809.0 | 16721.0 | 12519.9 |
| 65° | 1418.5 | 1432.4 | 1589.9 | 2168.9 | 3319.9 | 5599.9 | 9926.1 | 13936.1 | 17371.8 | 17345.1 | 12745.7 |
| 67.5° | 917.1 | 939.1 | 1010.9 | 1299.2 | 1990.5 | 3889.6 | 7936.7 | 12587.1 | 17042.9 | 17033.6 | 12279.0 |
| 70° | 774.7 | 781.6 | 814.0 | 876.6 | 1156.8 | 2358.8 | 5573.3 | 10436.7 | 15793.5 | 15793.5 | 11157.0 |
| 72.5° | 692.5 | 701.7 | 713.3 | 733.0 | 825.6 | 1336.3 | 3325.7 | 8124.3 | 13636.2 | 13726.5 | 9496.5 |
| 75° | 628.8 | 626.5 | 633.4 | 636.9 | 704.0 | 873.1 | 1719.6 | 6008.7 | 10549.0 | 10368.4 | 6877.1 |
| 77.5° | 538.5 | 541.9 | 538.5 | 553.5 | 621.8 | 664.7 | 873.1 | 4032.0 | 6393.1 | 6159.2 | 3451.9 |
| 80° | 442.3 | 448.1 | 453.9 | 463.2 | 531.5 | 504.9 | 524.6 | 1837.7 | 2364.6 | 2314.8 | 1066.5 |
| 82.5° | 332.3 | 340.4 | 349.7 | 371.7 | 418.0 | 333.5 | 331.2 | 785.1 | 853.4 | 781.6 | 392.5 |
| 85° | 134.3 | 158.6 | 239.7 | 261.7 | 262.9 | 183.0 | 203.8 | 327.7 | 348.5 | 340.4 | 154.0 |
| 87.5° | 31.3 | 37.1 | 77.6 | 117.0 | 107.7 | 68.3 | 75.3 | 106.5 | 121.6 | 112.3 | 52.1 |
| 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° | 1983.6 | 1983.6 | 1983.6 | 1983.6 | 1983.6 | 1983.6 | 1983.6 | 1983.6 | 1983.6 | 1983.6 | 1983.6 |
| 2.5° | 2023.0 | 1982.4 | 1913.0 | 1859.7 | 1821.5 | 1787.9 | 1767.1 | 1754.3 | 1749.7 | 1748.5 | 1749.7 |
| 5° | 2091.3 | 2019.5 | 1909.5 | 1840.0 | 1801.8 | 1779.8 | 1767.1 | 1765.9 | 1767.1 | 1768.2 | 1764.7 |
| 7.5° | 2185.1 | 2082.0 | 1938.4 | 1873.6 | 1844.6 | 1828.4 | 1822.6 | 1820.3 | 1821.5 | 1820.3 | 1820.3 |
| 10° | 2310.1 | 2168.9 | 1995.2 | 1928.0 | 1903.7 | 1885.2 | 1875.9 | 1870.1 | 1865.5 | 1860.8 | 1858.5 |
| 12.5° | 2447.9 | 2265.0 | 2056.5 | 1991.7 | 1957.0 | 1928.0 | 1907.2 | 1892.1 | 1881.7 | 1871.3 | 1869.0 |
| 15° | 2601.9 | 2366.9 | 2124.9 | 2034.5 | 1984.7 | 1941.9 | 1906.0 | 1881.7 | 1863.2 | 1848.1 | 1847.0 |
| 17.5° | 2749.0 | 2463.0 | 2171.2 | 2054.2 | 1981.3 | 1921.1 | 1873.6 | 1840.0 | 1816.8 | 1797.2 | 1794.8 |
| 20° | 2906.5 | 2554.5 | 2192.0 | 2041.5 | 1946.5 | 1873.6 | 1811.1 | 1770.5 | 1743.9 | 1721.9 | 1718.4 |
| 22.5° | 3065.1 | 2632.1 | 2189.7 | 2001.0 | 1886.3 | 1800.6 | 1734.6 | 1691.8 | 1660.5 | 1638.5 | 1630.4 |
| 25° | 3216.8 | 2694.6 | 2160.8 | 1936.1 | 1802.9 | 1713.8 | 1646.6 | 1607.3 | 1579.5 | 1552.8 | 1552.8 |
| 27.5° | 3353.5 | 2731.6 | 2106.3 | 1857.4 | 1717.3 | 1623.5 | 1570.2 | 1534.3 | 1508.8 | 1491.5 | 1481.0 |
| 30° | 3487.8 | 2749.0 | 2032.2 | 1757.8 | 1626.9 | 1547.0 | 1504.2 | 1483.4 | 1460.2 | 1440.5 | 1438.2 |
| 32.5° | 3608.2 | 2745.5 | 1939.6 | 1660.5 | 1541.2 | 1484.5 | 1467.1 | 1450.9 | 1426.6 | 1398.8 | 1391.9 |
| 35° | 3725.2 | 2722.4 | 1829.6 | 1554.0 | 1469.5 | 1447.5 | 1452.1 | 1428.9 | 1384.9 | 1350.2 | 1344.4 |
| 37.5° | 3852.5 | 2680.7 | 1709.2 | 1467.1 | 1409.2 | 1430.1 | 1441.7 | 1390.7 | 1318.9 | 1264.5 | 1251.8 |
| 40° | 3999.6 | 2633.2 | 1584.1 | 1380.3 | 1361.8 | 1413.9 | 1413.9 | 1320.1 | 1221.7 | 1188.1 | 1178.8 |
| 42.5° | 4172.1 | 2593.8 | 1479.9 | 1307.3 | 1322.4 | 1374.5 | 1368.7 | 1226.3 | 1185.8 | 1168.4 | 1163.8 |
| 45° | 4445.4 | 2579.9 | 1372.2 | 1243.7 | 1290.0 | 1328.2 | 1280.7 | 1193.9 | 1170.7 | 1156.8 | 1152.2 |
| 47.5° | 4877.3 | 2596.2 | 1277.2 | 1196.2 | 1252.9 | 1281.9 | 1182.3 | 1171.9 | 1155.6 | 1136.0 | 1133.6 |
| 50° | 5278.0 | 2581.1 | 1210.1 | 1169.5 | 1220.5 | 1226.3 | 1141.8 | 1145.2 | 1136.0 | 1114.0 | 1109.3 |
| 52.5° | 5605.7 | 2533.6 | 1167.2 | 1155.6 | 1192.7 | 1129.0 | 1103.5 | 1116.3 | 1112.8 | 1085.0 | 1080.4 |
| 55° | 5965.8 | 2504.7 | 1146.4 | 1155.6 | 1174.2 | 1044.5 | 1067.6 | 1086.2 | 1081.5 | 1061.9 | 1060.7 |
| 57.5° | 6402.4 | 2510.5 | 1131.3 | 1159.1 | 1155.6 | 1001.6 | 1031.7 | 1053.7 | 1052.6 | 1046.8 | 1046.8 |
| 60° | 6849.4 | 2512.8 | 1108.2 | 1158.0 | 1133.6 | 968.1 | 994.7 | 1026.0 | 1028.3 | 1031.7 | 1031.7 |
| 62.5° | 6997.6 | 2412.0 | 1063.0 | 1137.1 | 1085.0 | 935.6 | 960.0 | 1002.8 | 1000.5 | 1009.7 | 1010.9 |
| 65° | 6720.8 | 2133.0 | 995.8 | 1089.6 | 1022.5 | 912.5 | 933.3 | 972.7 | 960.0 | 984.3 | 988.9 |
| 67.5° | 6117.5 | 1764.7 | 891.6 | 1004.0 | 953.0 | 888.2 | 915.9 | 931.0 | 907.8 | 955.3 | 956.5 |
| 70° | 5287.3 | 1378.0 | 759.6 | 882.4 | 874.3 | 862.7 | 902.1 | 878.9 | 846.5 | 904.4 | 892.8 |
| 72.5° | 4421.1 | 1052.6 | 606.8 | 721.4 | 768.9 | 824.5 | 877.7 | 811.7 | 766.6 | 783.9 | 763.1 |
| 75° | 3321.0 | 778.2 | 487.5 | 565.1 | 640.4 | 770.0 | 855.7 | 730.7 | 661.2 | 645.0 | 640.4 |
| 77.5° | 1692.9 | 508.3 | 364.8 | 422.7 | 480.6 | 695.9 | 825.6 | 635.7 | 547.7 | 522.2 | 510.7 |
| 80° | 604.5 | 316.1 | 257.1 | 291.8 | 324.2 | 598.7 | 721.4 | 525.7 | 425.0 | 420.3 | 425.0 |
| 82.5° | 280.2 | 203.8 | 172.5 | 191.1 | 192.2 | 399.5 | 550.0 | 392.5 | 323.1 | 491.0 | 414.6 |
| 85° | 120.4 | 101.9 | 97.3 | 95.0 | 88.0 | 178.3 | 309.2 | 210.7 | 328.9 | 147.1 | 135.5 |
| 87.5° | 35.9 | 40.5 | 35.9 | 26.6 | 19.7 | 19.7 | 31.3 | 11.6 | 8.1 | 5.8 | 5.8 |
| 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)