

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: P454995

Luminaire Tested: **GALN-SA6A-827-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454995
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-SA6A-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20316 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

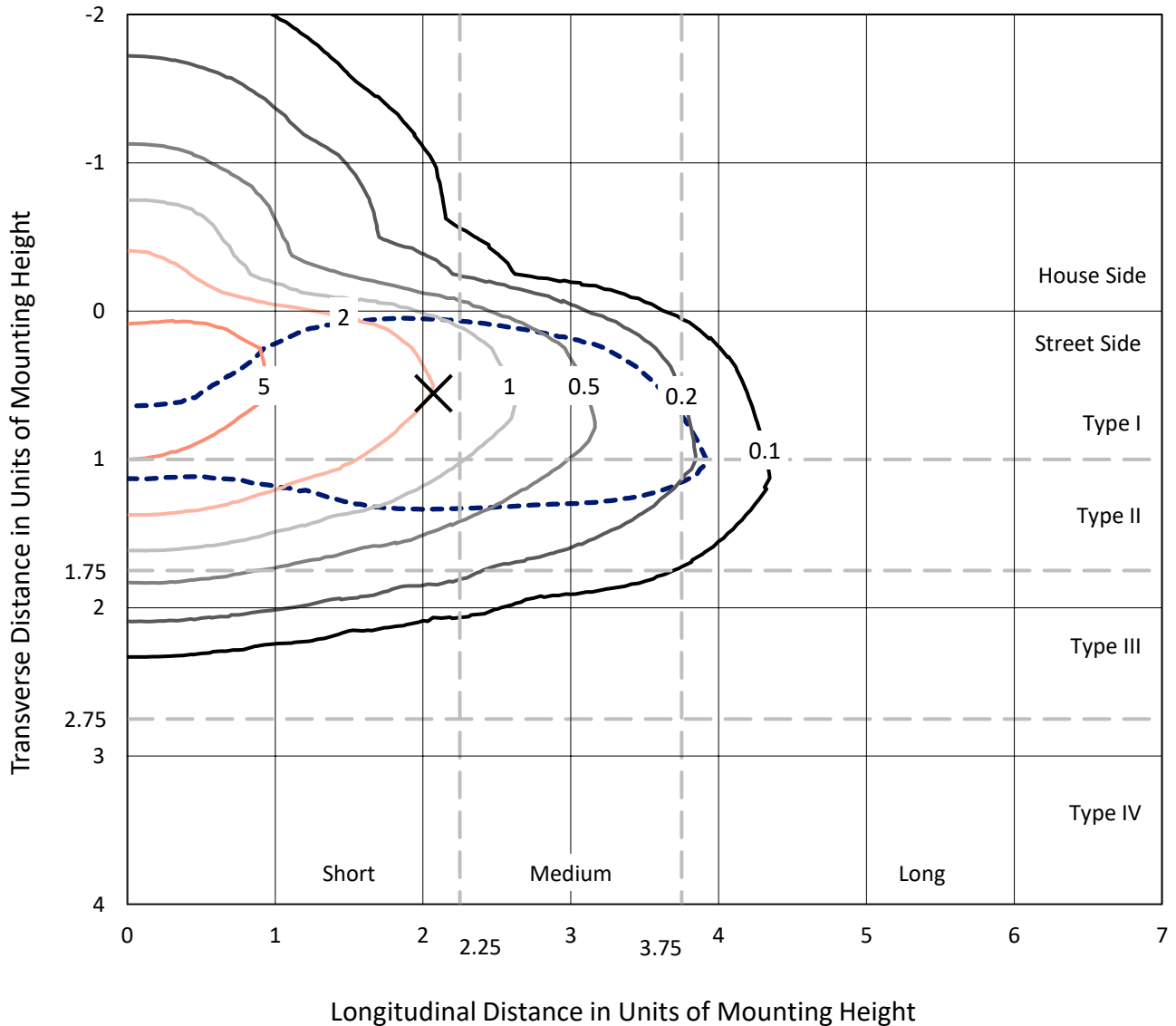
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

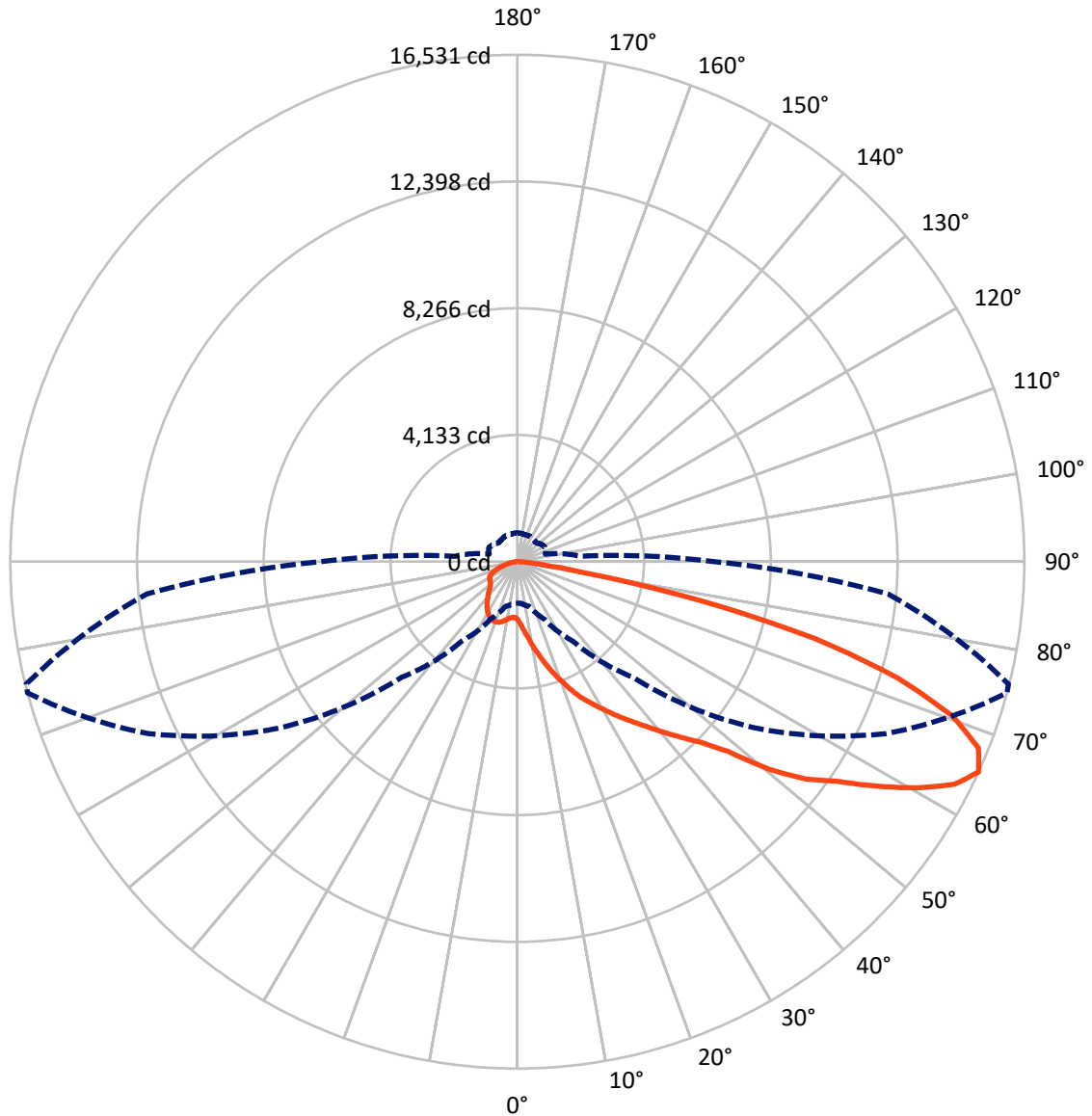
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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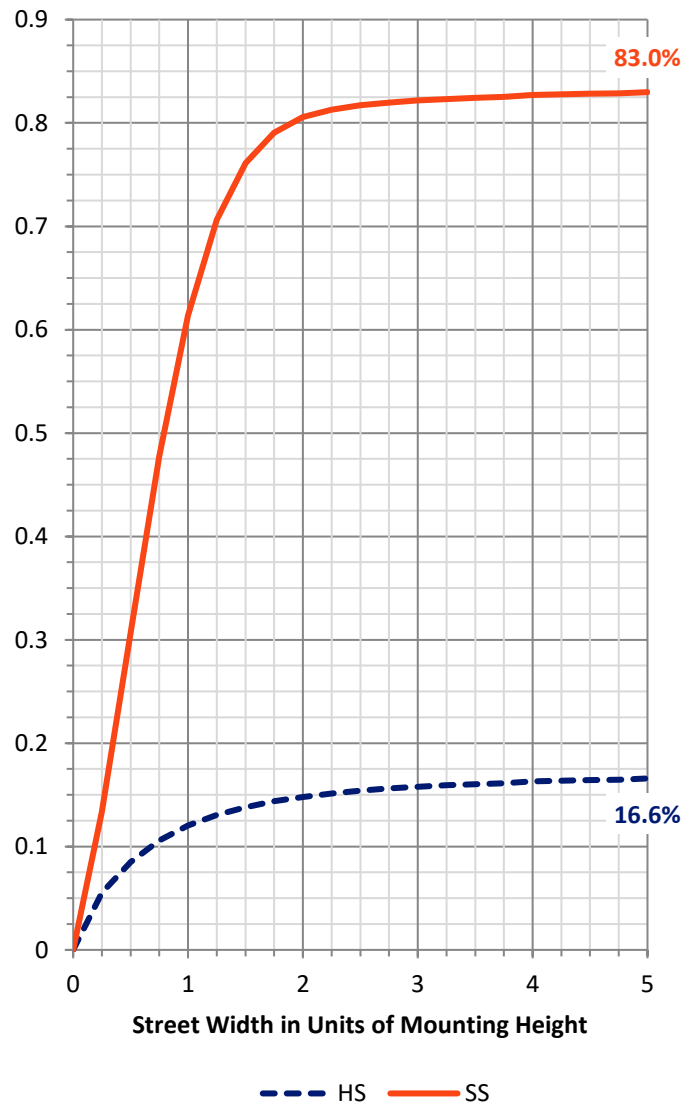
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3415.4 | 0.0 | 3415.4 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 16900.6 | 0.0 | 16900.6 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 20316.0 | 0.0 | 20316.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 229.3 | 1.1 |
| 10°-20° | 898.3 | 4.4 |
| 20°-30° | 1735.2 | 8.5 |
| 30°-40° | 2818.5 | 13.9 |
| 40°-50° | 3877.1 | 19.1 |
| 50°-60° | 4577.5 | 22.5 |
| 60°-70° | 4010.6 | 19.7 |
| 70°-80° | 1914.7 | 9.4 |
| 80°-90° | 254.8 | 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° | 20316.0 | 100.0 |
| 0°-180° | 20316.0 | 100.0 |

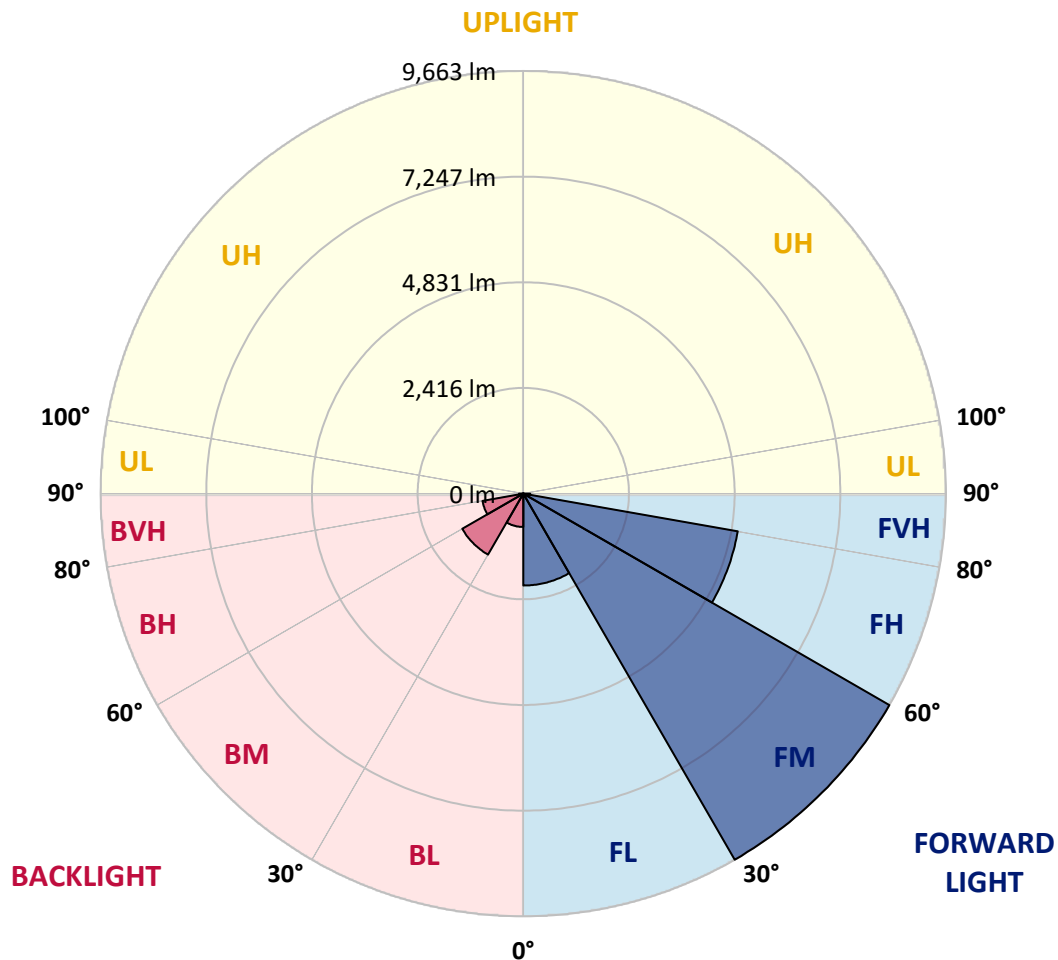


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2100.3 | 10.3 | | | |
| FM (30°-60°) | 9662.7 | 47.6 | | | |
| FH (60°-80°) | 4978.3 | 24.5 | | | G2/5000 |
| FVH (80°-90°) | 159.2 | 0.8 | | | G2/225 |
| BL (0°-30°) | 762.5 | 3.8 | B2/1000 | | |
| BM (30°-60°) | 1610.3 | 7.9 | B2/2500 | | |
| BH (60°-80°) | 947.0 | 4.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 95.6 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 1887.6 | 1887.6 | 1887.6 | 1887.6 | 1887.6 | 1887.6 | 1887.6 | 1887.6 | 1887.6 | 1887.6 | 1887.6 |
| 2.5° | 2508.0 | 2491.5 | 2473.8 | 2425.4 | 2373.6 | 2315.2 | 2231.4 | 2151.0 | 2044.1 | 2040.8 | 1961.4 |
| 5° | 3203.3 | 3192.3 | 3114.1 | 3068.9 | 2948.8 | 2789.0 | 2653.5 | 2443.0 | 2247.9 | 2224.8 | 2070.5 |
| 7.5° | 3842.4 | 3799.5 | 3769.7 | 3688.2 | 3569.2 | 3364.2 | 3101.9 | 2817.6 | 2491.5 | 2460.6 | 2205.0 |
| 10° | 4324.0 | 4319.6 | 4304.2 | 4233.6 | 4144.4 | 3940.5 | 3649.6 | 3241.9 | 2800.0 | 2739.4 | 2368.1 |
| 12.5° | 4684.3 | 4687.6 | 4685.4 | 4684.3 | 4620.4 | 4447.4 | 4132.3 | 3702.5 | 3111.9 | 3068.9 | 2556.5 |
| 15° | 4921.2 | 4954.3 | 4967.5 | 5022.6 | 5028.1 | 4912.4 | 4641.3 | 4147.7 | 3463.4 | 3399.5 | 2759.2 |
| 17.5° | 5077.7 | 5094.2 | 5155.9 | 5249.6 | 5325.6 | 5304.7 | 5063.4 | 4559.8 | 3822.6 | 3715.7 | 2969.7 |
| 20° | 5227.6 | 5256.2 | 5303.6 | 5431.4 | 5565.9 | 5627.6 | 5457.9 | 4981.8 | 4178.5 | 4110.2 | 3202.2 |
| 22.5° | 5539.4 | 5580.2 | 5596.7 | 5661.7 | 5776.3 | 5885.4 | 5808.3 | 5386.3 | 4568.6 | 4476.1 | 3449.1 |
| 25° | 6067.2 | 6110.2 | 6063.9 | 6048.5 | 6086.0 | 6140.0 | 6123.4 | 5767.5 | 4936.7 | 4804.4 | 3682.7 |
| 27.5° | 6754.9 | 6760.4 | 6670.0 | 6584.1 | 6491.5 | 6463.9 | 6413.3 | 6105.8 | 5256.2 | 5146.0 | 3917.4 |
| 30° | 7493.2 | 7466.7 | 7316.8 | 7161.5 | 7005.0 | 6850.7 | 6705.3 | 6432.0 | 5612.2 | 5485.4 | 4147.7 |
| 32.5° | 8178.6 | 8164.2 | 7997.8 | 7756.5 | 7492.0 | 7346.6 | 7052.4 | 6761.5 | 5993.4 | 5871.1 | 4384.6 |
| 35° | 8692.1 | 8713.0 | 8530.1 | 8266.7 | 7978.0 | 7849.1 | 7477.7 | 7107.5 | 6387.9 | 6254.6 | 4642.4 |
| 37.5° | 9056.8 | 9045.8 | 8883.8 | 8655.7 | 8402.2 | 8289.8 | 7974.7 | 7485.4 | 6812.2 | 6684.3 | 4924.5 |
| 40° | 9186.8 | 9180.2 | 9060.1 | 8893.7 | 8732.8 | 8693.2 | 8494.8 | 7893.2 | 7298.1 | 7148.2 | 5263.9 |
| 42.5° | 9104.2 | 9118.5 | 9039.2 | 8994.0 | 8964.2 | 8992.9 | 9011.6 | 8427.6 | 7828.1 | 7690.4 | 5632.0 |
| 45° | 8850.7 | 8843.0 | 8832.0 | 8905.8 | 9073.3 | 9261.8 | 9522.9 | 8932.3 | 8404.5 | 8294.3 | 6125.7 |
| 47.5° | 8397.8 | 8452.9 | 8480.5 | 8684.3 | 9050.2 | 9496.5 | 10111.3 | 9608.9 | 9240.8 | 9145.0 | 6878.3 |
| 50° | 7764.2 | 7808.3 | 7971.4 | 8333.9 | 8879.4 | 9584.6 | 10686.6 | 10715.2 | 10635.9 | 10456.3 | 7695.9 |
| 52.5° | 6774.7 | 6843.0 | 7179.1 | 7843.6 | 8529.0 | 9548.3 | 11034.8 | 11664.0 | 11768.7 | 11634.2 | 8501.4 |
| 55° | 5667.2 | 5763.1 | 6117.9 | 6989.6 | 8046.3 | 9349.9 | 11275.0 | 12213.8 | 12631.5 | 12507.0 | 9277.2 |
| 57.5° | 4582.9 | 4684.3 | 5049.1 | 5893.1 | 7204.4 | 8911.3 | 11432.6 | 12826.5 | 13806.1 | 13644.1 | 10242.5 |
| 60° | 3434.7 | 3540.5 | 3853.5 | 4722.9 | 6005.5 | 8054.0 | 11325.7 | 13357.6 | 14979.7 | 14910.3 | 11208.9 |
| 62.5° | 2216.0 | 2332.8 | 2605.0 | 3324.5 | 4616.0 | 6882.7 | 10753.8 | 13650.8 | 15995.7 | 15911.9 | 11914.1 |
| 65° | 1349.9 | 1363.1 | 1513.0 | 2063.9 | 3159.2 | 5329.0 | 9445.8 | 13261.8 | 16531.2 | 16505.9 | 12129.0 |
| 67.5° | 872.7 | 893.7 | 962.0 | 1236.4 | 1894.2 | 3701.4 | 7552.7 | 11978.0 | 16218.3 | 16209.4 | 11684.9 |
| 70° | 737.2 | 743.8 | 774.7 | 834.2 | 1100.8 | 2244.6 | 5303.6 | 9931.7 | 15029.3 | 15029.3 | 10617.1 |
| 72.5° | 659.0 | 667.8 | 678.8 | 697.5 | 785.7 | 1271.6 | 3164.8 | 7731.2 | 12976.4 | 13062.3 | 9037.0 |
| 75° | 598.4 | 596.1 | 602.8 | 606.1 | 670.0 | 830.9 | 1636.4 | 5717.9 | 10038.6 | 9866.7 | 6544.4 |
| 77.5° | 512.4 | 515.7 | 512.4 | 526.7 | 591.7 | 632.5 | 830.9 | 3836.9 | 6083.8 | 5861.2 | 3284.9 |
| 80° | 420.9 | 426.4 | 432.0 | 440.8 | 505.8 | 480.4 | 499.2 | 1748.8 | 2250.1 | 2202.8 | 1014.9 |
| 82.5° | 316.3 | 324.0 | 332.8 | 353.7 | 397.8 | 317.4 | 315.2 | 747.1 | 812.1 | 743.8 | 373.6 |
| 85° | 127.8 | 151.0 | 228.1 | 249.0 | 250.1 | 174.1 | 193.9 | 311.8 | 331.7 | 324.0 | 146.6 |
| 87.5° | 29.8 | 35.3 | 73.8 | 111.3 | 102.5 | 65.0 | 71.6 | 101.4 | 115.7 | 106.9 | 49.6 |
| 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° | 1887.6 | 1887.6 | 1887.6 | 1887.6 | 1887.6 | 1887.6 | 1887.6 | 1887.6 | 1887.6 | 1887.6 | 1887.6 |
| 2.5° | 1925.1 | 1886.5 | 1820.4 | 1769.7 | 1733.3 | 1701.4 | 1681.6 | 1669.4 | 1665.0 | 1663.9 | 1665.0 |
| 5° | 1990.1 | 1921.8 | 1817.1 | 1751.0 | 1714.6 | 1693.7 | 1681.6 | 1680.4 | 1681.6 | 1682.7 | 1679.3 |
| 7.5° | 2079.3 | 1981.3 | 1844.6 | 1782.9 | 1755.4 | 1740.0 | 1734.4 | 1732.2 | 1733.3 | 1732.2 | 1732.2 |
| 10° | 2198.4 | 2063.9 | 1898.6 | 1834.7 | 1811.6 | 1793.9 | 1785.1 | 1779.6 | 1775.2 | 1770.8 | 1768.6 |
| 12.5° | 2329.5 | 2155.4 | 1957.0 | 1895.3 | 1862.3 | 1834.7 | 1814.9 | 1800.6 | 1790.6 | 1780.7 | 1778.5 |
| 15° | 2476.0 | 2252.4 | 2022.0 | 1936.1 | 1888.7 | 1847.9 | 1813.8 | 1790.6 | 1773.0 | 1758.7 | 1757.6 |
| 17.5° | 2616.0 | 2343.8 | 2066.1 | 1954.8 | 1885.4 | 1828.1 | 1782.9 | 1751.0 | 1728.9 | 1710.2 | 1708.0 |
| 20° | 2765.9 | 2430.9 | 2086.0 | 1942.7 | 1852.4 | 1782.9 | 1723.4 | 1684.9 | 1659.5 | 1638.6 | 1635.3 |
| 22.5° | 2916.8 | 2504.7 | 2083.8 | 1904.1 | 1795.1 | 1713.5 | 1650.7 | 1609.9 | 1580.2 | 1559.2 | 1551.5 |
| 25° | 3061.2 | 2564.2 | 2056.2 | 1842.4 | 1715.7 | 1630.9 | 1567.0 | 1529.5 | 1503.0 | 1477.7 | 1477.7 |
| 27.5° | 3191.2 | 2599.5 | 2004.4 | 1767.5 | 1634.2 | 1544.9 | 1494.2 | 1460.1 | 1435.8 | 1419.3 | 1409.4 |
| 30° | 3319.0 | 2616.0 | 1933.9 | 1672.7 | 1548.2 | 1472.2 | 1431.4 | 1411.6 | 1389.5 | 1370.8 | 1368.6 |
| 32.5° | 3433.6 | 2612.7 | 1845.7 | 1580.2 | 1466.7 | 1412.7 | 1396.2 | 1380.7 | 1357.6 | 1331.1 | 1324.5 |
| 35° | 3544.9 | 2590.6 | 1741.1 | 1478.8 | 1398.4 | 1377.4 | 1381.8 | 1359.8 | 1317.9 | 1284.9 | 1279.3 |
| 37.5° | 3666.1 | 2551.0 | 1626.5 | 1396.2 | 1341.1 | 1360.9 | 1371.9 | 1323.4 | 1255.1 | 1203.3 | 1191.2 |
| 40° | 3806.1 | 2505.8 | 1507.4 | 1313.5 | 1295.9 | 1345.5 | 1345.5 | 1256.2 | 1162.5 | 1130.6 | 1121.8 |
| 42.5° | 3970.3 | 2468.3 | 1408.3 | 1244.1 | 1258.4 | 1308.0 | 1302.5 | 1166.9 | 1128.4 | 1111.9 | 1107.4 |
| 45° | 4230.3 | 2455.1 | 1305.8 | 1183.5 | 1227.6 | 1263.9 | 1218.7 | 1136.1 | 1114.1 | 1100.8 | 1096.4 |
| 47.5° | 4641.3 | 2470.5 | 1215.4 | 1138.3 | 1192.3 | 1219.8 | 1125.1 | 1115.2 | 1099.7 | 1081.0 | 1078.8 |
| 50° | 5022.6 | 2456.2 | 1151.5 | 1113.0 | 1161.4 | 1166.9 | 1086.5 | 1089.8 | 1081.0 | 1060.1 | 1055.7 |
| 52.5° | 5334.5 | 2411.0 | 1110.7 | 1099.7 | 1135.0 | 1074.4 | 1050.1 | 1062.3 | 1059.0 | 1032.5 | 1028.1 |
| 55° | 5677.2 | 2383.5 | 1090.9 | 1099.7 | 1117.4 | 993.9 | 1016.0 | 1033.6 | 1029.2 | 1010.5 | 1009.4 |
| 57.5° | 6092.6 | 2389.0 | 1076.6 | 1103.0 | 1099.7 | 953.2 | 981.8 | 1002.8 | 1001.7 | 996.1 | 996.1 |
| 60° | 6517.9 | 2391.2 | 1054.6 | 1101.9 | 1078.8 | 921.2 | 946.6 | 976.3 | 978.5 | 981.8 | 981.8 |
| 62.5° | 6659.0 | 2295.3 | 1011.6 | 1082.1 | 1032.5 | 890.4 | 913.5 | 954.3 | 952.1 | 960.9 | 962.0 |
| 65° | 6395.6 | 2029.8 | 947.7 | 1036.9 | 973.0 | 868.3 | 888.2 | 925.6 | 913.5 | 936.6 | 941.1 |
| 67.5° | 5821.5 | 1679.3 | 848.5 | 955.4 | 906.9 | 845.2 | 871.6 | 886.0 | 863.9 | 909.1 | 910.2 |
| 70° | 5031.4 | 1311.3 | 722.9 | 839.7 | 832.0 | 820.9 | 858.4 | 836.4 | 805.5 | 860.6 | 849.6 |
| 72.5° | 4207.2 | 1001.7 | 577.4 | 686.5 | 731.7 | 784.6 | 835.3 | 772.5 | 729.5 | 746.0 | 726.2 |
| 75° | 3160.3 | 740.5 | 463.9 | 537.7 | 609.4 | 732.8 | 814.3 | 695.3 | 629.2 | 613.8 | 609.4 |
| 77.5° | 1611.0 | 483.7 | 347.1 | 402.2 | 457.3 | 662.3 | 785.7 | 605.0 | 521.2 | 497.0 | 486.0 |
| 80° | 575.2 | 300.8 | 244.6 | 277.7 | 308.5 | 569.7 | 686.5 | 500.3 | 404.4 | 400.0 | 404.4 |
| 82.5° | 266.7 | 193.9 | 164.2 | 181.8 | 182.9 | 380.2 | 523.4 | 373.6 | 307.4 | 467.2 | 394.5 |
| 85° | 114.6 | 97.0 | 92.6 | 90.4 | 83.7 | 169.7 | 294.2 | 200.6 | 312.9 | 139.9 | 128.9 |
| 87.5° | 34.2 | 38.6 | 34.2 | 25.3 | 18.7 | 18.7 | 29.8 | 11.0 | 7.7 | 5.5 | 5.5 |
| 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)