

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: P451948

Luminaire Tested: **GALN-SA2D-760-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-760-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15645 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

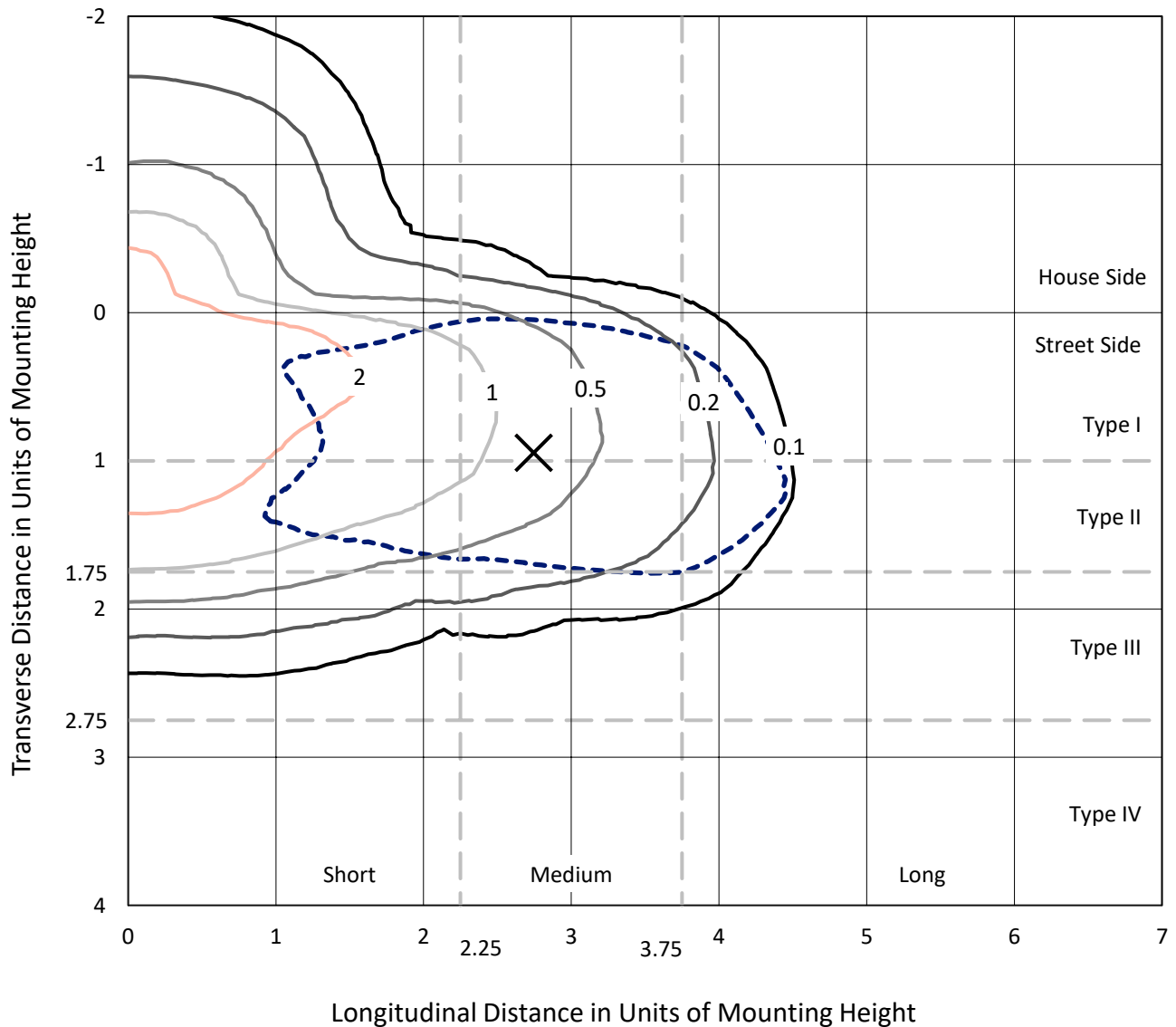
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

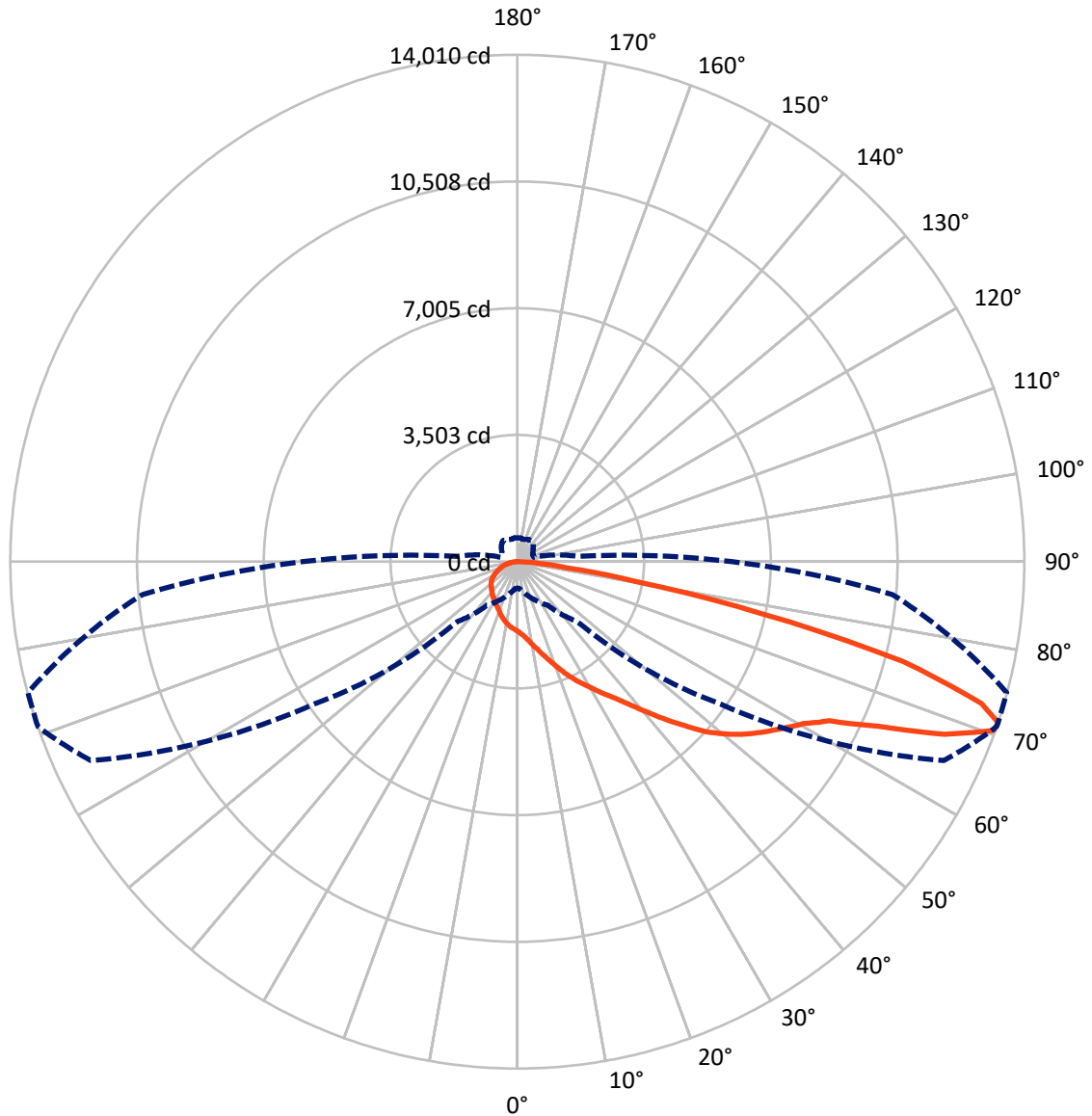
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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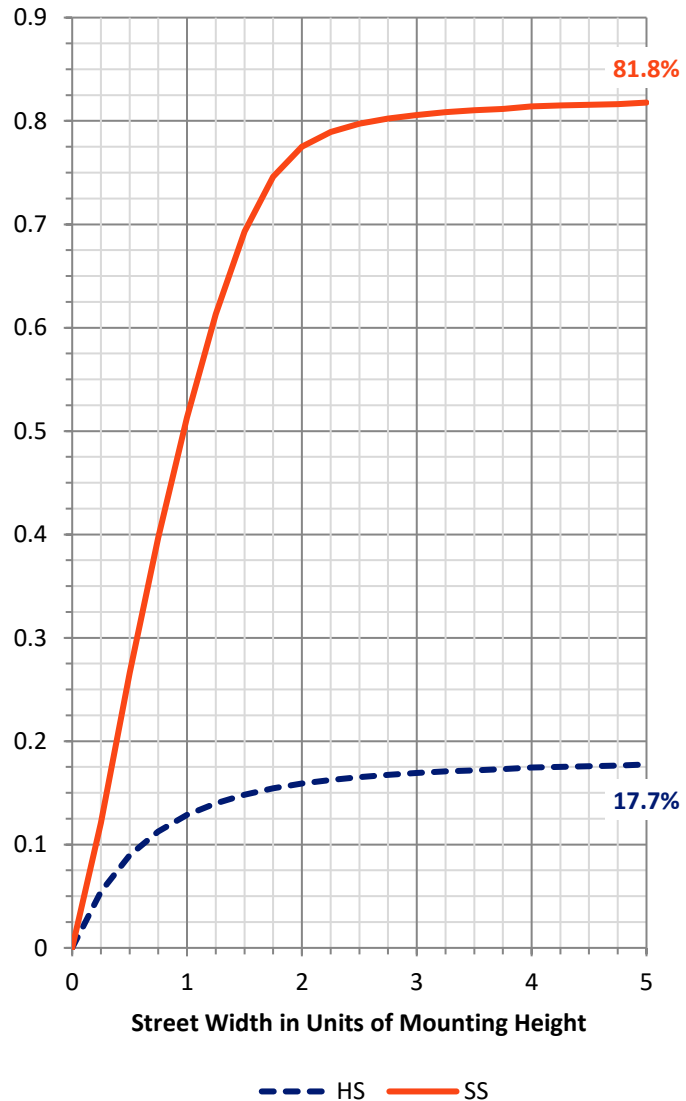
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2813.7 | 0.0 | 2813.7 |
| | % Fixture | 18.0 | 0.0 | 18.0 |
| Street Side | Lumens | 12831.3 | 0.0 | 12831.3 |
| | % Fixture | 82.0 | 0.0 | 82.0 |
| Total | Lumens | 15645.0 | 0.0 | 15645.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 192.8 | 1.2 |
| 10°-20° | 626.4 | 4.0 |
| 20°-30° | 1094.6 | 7.0 |
| 30°-40° | 1628.1 | 10.4 |
| 40°-50° | 2398.8 | 15.3 |
| 50°-60° | 3358.4 | 21.5 |
| 60°-70° | 3756.3 | 24.0 |
| 70°-80° | 2294.5 | 14.7 |
| 80°-90° | 295.2 | 1.9 |
| 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° | 15645.0 | 100.0 |
| 0°-180° | 15645.0 | 100.0 |



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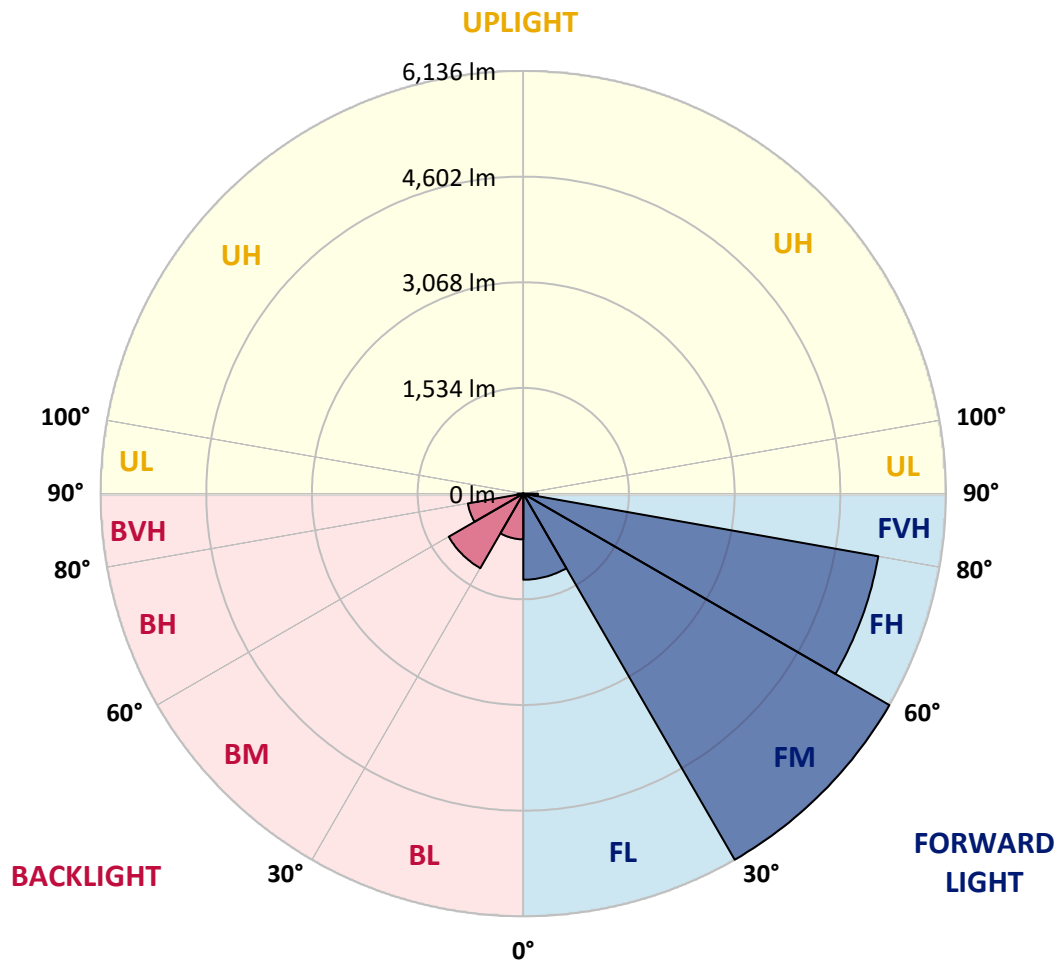
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1250.0 | 8.0 | | | |
| FM | (30°-60°) | 6135.7 | 39.2 | | | |
| FH | (60°-80°) | 5233.2 | 33.4 | | | G3/7500 |
| FVH | (80°-90°) | 212.4 | 1.4 | | | G2/225 |
| BL | (0°-30°) | 663.7 | 4.2 | B2/1000 | | |
| BM | (30°-60°) | 1249.7 | 8.0 | B2/2500 | | |
| BH | (60°-80°) | 817.5 | 5.2 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 82.8 | 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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 71° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 1920.1 | 1920.1 | 1920.1 | 1920.1 | 1920.1 | 1920.1 | 1920.1 | 1920.1 | 1920.1 | 1920.1 | 1920.1 |
| 2.5° | 2131.6 | 2121.3 | 2122.2 | 2107.6 | 2088.7 | 2068.0 | 2038.8 | 2013.0 | 1992.3 | 1980.3 | 1945.1 |
| 5° | 2362.1 | 2351.8 | 2338.9 | 2307.1 | 2293.3 | 2242.6 | 2178.1 | 2119.6 | 2074.9 | 2050.0 | 1979.4 |
| 7.5° | 2548.7 | 2546.1 | 2542.7 | 2524.6 | 2489.4 | 2418.8 | 2363.8 | 2262.3 | 2196.1 | 2148.8 | 2028.5 |
| 10° | 2663.9 | 2668.2 | 2670.8 | 2674.2 | 2659.6 | 2622.6 | 2547.0 | 2418.8 | 2334.6 | 2274.4 | 2092.1 |
| 12.5° | 2722.4 | 2726.7 | 2741.3 | 2773.1 | 2792.9 | 2788.6 | 2726.7 | 2601.1 | 2485.1 | 2405.9 | 2160.0 |
| 15° | 2758.5 | 2765.4 | 2791.2 | 2833.3 | 2899.5 | 2941.7 | 2911.6 | 2795.5 | 2668.2 | 2574.5 | 2240.9 |
| 17.5° | 2798.1 | 2805.8 | 2834.2 | 2894.4 | 2981.2 | 3072.4 | 3105.0 | 3005.3 | 2866.8 | 2755.1 | 2331.1 |
| 20° | 2820.4 | 2830.7 | 2871.1 | 2950.3 | 3051.7 | 3184.1 | 3292.5 | 3240.0 | 3088.7 | 2964.9 | 2435.2 |
| 22.5° | 2856.5 | 2865.1 | 2899.5 | 2983.8 | 3105.0 | 3271.0 | 3479.9 | 3468.8 | 3335.5 | 3175.5 | 2549.5 |
| 25° | 2954.6 | 2968.3 | 2985.5 | 3036.2 | 3153.2 | 3359.6 | 3635.6 | 3713.0 | 3574.5 | 3395.7 | 2654.5 |
| 27.5° | 3139.4 | 3150.6 | 3149.7 | 3156.6 | 3222.8 | 3436.1 | 3770.6 | 3954.6 | 3811.9 | 3618.4 | 2755.9 |
| 30° | 3350.1 | 3354.4 | 3357.8 | 3342.4 | 3357.0 | 3514.3 | 3894.4 | 4193.6 | 4050.9 | 3847.1 | 2844.5 |
| 32.5° | 3606.3 | 3614.9 | 3585.7 | 3546.2 | 3534.1 | 3630.4 | 3996.7 | 4432.7 | 4333.8 | 4079.3 | 2932.2 |
| 35° | 3909.0 | 3931.4 | 3872.0 | 3802.4 | 3753.4 | 3797.2 | 4134.3 | 4676.9 | 4623.6 | 4375.9 | 3048.3 |
| 37.5° | 4254.7 | 4282.2 | 4227.2 | 4090.5 | 4020.8 | 4032.8 | 4314.0 | 4978.7 | 4989.9 | 4713.9 | 3221.1 |
| 40° | 4537.6 | 4573.7 | 4575.4 | 4382.0 | 4276.2 | 4289.9 | 4541.9 | 5303.7 | 5431.9 | 5131.8 | 3424.9 |
| 42.5° | 4724.2 | 4759.4 | 4796.4 | 4682.9 | 4572.0 | 4650.2 | 4807.6 | 5656.3 | 5928.9 | 5639.1 | 3709.5 |
| 45° | 4928.8 | 4960.7 | 4981.3 | 4929.7 | 4867.8 | 5070.7 | 5128.3 | 6031.2 | 6458.6 | 6205.8 | 4020.8 |
| 47.5° | 5166.2 | 5201.4 | 5221.2 | 5172.2 | 5149.0 | 5439.6 | 5474.0 | 6381.2 | 7024.4 | 6756.1 | 4364.8 |
| 50° | 5482.6 | 5509.3 | 5498.9 | 5468.0 | 5462.8 | 5722.5 | 5805.9 | 6708.8 | 7491.3 | 7348.5 | 4721.6 |
| 52.5° | 5876.4 | 5908.2 | 5919.4 | 5875.6 | 5855.8 | 5924.6 | 6073.3 | 7007.2 | 7916.1 | 7857.6 | 5102.5 |
| 55° | 6114.6 | 6165.3 | 6335.6 | 6404.4 | 6451.7 | 6186.0 | 6361.4 | 7336.5 | 8297.0 | 8394.2 | 5511.8 |
| 57.5° | 5809.4 | 5874.7 | 6255.6 | 6599.6 | 7044.1 | 6839.5 | 6769.8 | 7680.5 | 8677.9 | 8914.4 | 6002.0 |
| 60° | 5064.7 | 5079.3 | 5570.3 | 6204.0 | 7098.3 | 7679.6 | 7622.0 | 8227.3 | 9090.7 | 9438.9 | 6647.7 |
| 62.5° | 3513.5 | 3544.4 | 4124.9 | 5136.1 | 6429.3 | 7982.3 | 9071.7 | 9171.5 | 9682.3 | 10224.0 | 7594.5 |
| 65° | 1811.8 | 1771.4 | 2300.2 | 3228.0 | 4847.2 | 7263.4 | 10246.3 | 10907.6 | 10965.2 | 11451.9 | 8927.3 |
| 67.5° | 1115.3 | 1133.3 | 1381.0 | 1884.9 | 2866.0 | 5278.8 | 10123.4 | 13028.9 | 12725.4 | 12959.3 | 10164.7 |
| 70° | 837.5 | 859.9 | 1030.1 | 1289.8 | 1747.3 | 3018.2 | 8141.4 | 13543.1 | 13967.1 | 13906.9 | 10541.3 |
| 71° | 728.3 | 751.5 | 928.7 | 1173.7 | 1467.8 | 2329.4 | 6859.3 | 13004.8 | 14010.0 | 13999.7 | 10399.4 |
| 72.5° | 620.8 | 635.5 | 773.9 | 994.0 | 1237.4 | 1632.9 | 5153.3 | 11663.4 | 13412.4 | 13755.5 | 9892.9 |
| 75° | 487.6 | 498.7 | 560.6 | 758.4 | 974.2 | 1002.6 | 2765.4 | 8744.1 | 11015.9 | 11669.5 | 8235.9 |
| 77.5° | 397.3 | 405.0 | 436.8 | 563.2 | 751.5 | 710.3 | 1450.6 | 5691.6 | 6901.4 | 7559.2 | 4851.5 |
| 80° | 315.6 | 324.2 | 343.1 | 381.8 | 563.2 | 506.5 | 692.2 | 2884.0 | 3333.8 | 3326.9 | 1936.5 |
| 82.5° | 245.1 | 247.6 | 270.0 | 280.3 | 385.2 | 359.4 | 374.9 | 1221.0 | 1352.6 | 1397.3 | 699.1 |
| 85° | 154.8 | 162.5 | 239.0 | 215.0 | 230.4 | 210.7 | 184.9 | 485.0 | 597.6 | 589.0 | 279.5 |
| 87.5° | 47.3 | 49.9 | 80.8 | 91.1 | 102.3 | 92.0 | 67.9 | 142.7 | 174.6 | 189.2 | 69.7 |
| 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° | 1920.1 | 1920.1 | 1920.1 | 1920.1 | 1920.1 | 1920.1 | 1920.1 | 1920.1 | 1920.1 | 1920.1 | 1920.1 |
| 2.5° | 1931.3 | 1921.8 | 1888.3 | 1860.8 | 1835.0 | 1806.6 | 1782.5 | 1775.7 | 1769.6 | 1767.1 | 1766.2 |
| 5° | 1949.4 | 1921.0 | 1854.8 | 1800.6 | 1757.6 | 1718.0 | 1693.1 | 1681.9 | 1670.7 | 1670.7 | 1674.2 |
| 7.5° | 1975.1 | 1923.6 | 1821.2 | 1740.4 | 1686.2 | 1649.3 | 1631.2 | 1629.5 | 1632.1 | 1634.6 | 1635.5 |
| 10° | 2003.5 | 1921.8 | 1772.2 | 1671.6 | 1623.5 | 1606.3 | 1607.1 | 1621.7 | 1635.5 | 1645.8 | 1647.5 |
| 12.5° | 2031.0 | 1911.5 | 1714.6 | 1607.1 | 1576.2 | 1579.6 | 1603.7 | 1636.4 | 1663.0 | 1677.6 | 1678.5 |
| 15° | 2062.0 | 1895.2 | 1645.0 | 1546.1 | 1535.7 | 1562.4 | 1607.1 | 1657.0 | 1697.4 | 1721.5 | 1724.1 |
| 17.5° | 2087.8 | 1867.7 | 1571.9 | 1486.7 | 1499.6 | 1548.6 | 1610.6 | 1675.0 | 1724.1 | 1754.2 | 1759.3 |
| 20° | 2117.0 | 1832.4 | 1496.2 | 1430.0 | 1467.0 | 1533.2 | 1603.7 | 1673.3 | 1724.1 | 1753.3 | 1760.2 |
| 22.5° | 2140.2 | 1782.5 | 1424.0 | 1383.5 | 1437.7 | 1514.3 | 1580.5 | 1636.4 | 1677.6 | 1693.1 | 1703.4 |
| 25° | 2149.7 | 1719.8 | 1356.0 | 1345.7 | 1414.5 | 1483.3 | 1528.0 | 1559.8 | 1572.7 | 1571.0 | 1575.3 |
| 27.5° | 2144.5 | 1647.5 | 1297.6 | 1315.6 | 1385.3 | 1435.1 | 1457.5 | 1454.9 | 1431.7 | 1410.2 | 1420.5 |
| 30° | 2123.0 | 1561.5 | 1248.5 | 1284.7 | 1347.4 | 1375.0 | 1371.5 | 1338.0 | 1294.1 | 1253.7 | 1256.3 |
| 32.5° | 2084.4 | 1468.7 | 1203.0 | 1249.4 | 1294.1 | 1306.2 | 1282.9 | 1239.1 | 1176.3 | 1123.9 | 1116.1 |
| 35° | 2051.7 | 1380.1 | 1162.6 | 1209.0 | 1240.8 | 1234.8 | 1212.4 | 1155.7 | 1098.9 | 1052.5 | 1044.8 |
| 37.5° | 2046.5 | 1304.4 | 1123.9 | 1163.4 | 1181.5 | 1172.9 | 1145.4 | 1097.2 | 1076.6 | 1041.3 | 1037.0 |
| 40° | 2074.0 | 1251.1 | 1084.3 | 1115.3 | 1123.9 | 1117.0 | 1086.9 | 1059.4 | 1078.3 | 1069.7 | 1069.7 |
| 42.5° | 2148.8 | 1222.8 | 1049.1 | 1067.1 | 1074.0 | 1079.2 | 1057.7 | 1034.4 | 1057.7 | 1018.1 | 1005.2 |
| 45° | 2267.5 | 1223.6 | 1017.2 | 1019.8 | 1040.5 | 1058.5 | 1043.9 | 1009.5 | 997.5 | 918.4 | 902.9 |
| 47.5° | 2442.1 | 1252.8 | 991.4 | 975.1 | 1012.1 | 1042.2 | 1021.5 | 971.7 | 918.4 | 865.9 | 856.4 |
| 50° | 2645.9 | 1305.3 | 968.2 | 928.7 | 974.2 | 1021.5 | 1006.1 | 947.6 | 892.6 | 860.7 | 854.7 |
| 52.5° | 2872.0 | 1371.5 | 939.9 | 877.1 | 927.8 | 1012.1 | 1009.5 | 944.1 | 868.5 | 847.0 | 841.8 |
| 55° | 3151.5 | 1436.9 | 904.6 | 816.9 | 886.5 | 1004.3 | 1000.0 | 915.8 | 863.3 | 847.8 | 846.1 |
| 57.5° | 3476.5 | 1531.4 | 853.9 | 755.8 | 839.2 | 972.5 | 963.1 | 898.6 | 846.1 | 834.9 | 834.1 |
| 60° | 4000.2 | 1678.5 | 781.6 | 699.9 | 791.1 | 916.6 | 928.7 | 869.3 | 818.6 | 816.0 | 815.2 |
| 62.5° | 4688.9 | 1884.9 | 706.8 | 642.3 | 735.2 | 844.4 | 878.8 | 829.8 | 789.4 | 802.3 | 804.0 |
| 65° | 5640.0 | 2058.6 | 629.4 | 593.3 | 673.3 | 774.8 | 831.5 | 792.8 | 756.7 | 781.6 | 781.6 |
| 67.5° | 6259.9 | 2062.0 | 558.9 | 542.6 | 610.5 | 716.3 | 781.6 | 749.0 | 714.6 | 756.7 | 758.4 |
| 70° | 6131.0 | 1806.6 | 500.5 | 489.3 | 549.5 | 653.5 | 726.6 | 700.8 | 661.2 | 699.1 | 685.3 |
| 71° | 5922.9 | 1664.7 | 477.2 | 468.6 | 525.4 | 623.4 | 700.8 | 679.3 | 639.8 | 664.7 | 656.9 |
| 72.5° | 5590.9 | 1445.5 | 439.4 | 441.1 | 489.3 | 585.6 | 664.7 | 642.3 | 602.8 | 616.5 | 614.0 |
| 75° | 4725.9 | 1262.3 | 375.8 | 383.5 | 420.5 | 521.1 | 592.5 | 575.3 | 534.8 | 534.8 | 532.3 |
| 77.5° | 2954.6 | 882.2 | 312.1 | 316.4 | 356.9 | 446.3 | 509.0 | 494.4 | 455.7 | 442.8 | 439.4 |
| 80° | 1102.4 | 455.7 | 244.2 | 249.4 | 274.3 | 351.7 | 421.3 | 407.6 | 368.0 | 353.4 | 339.7 |
| 82.5° | 417.0 | 228.7 | 179.7 | 175.4 | 202.1 | 268.3 | 330.2 | 313.9 | 282.9 | 247.6 | 237.3 |
| 85° | 157.4 | 113.5 | 110.1 | 106.6 | 118.7 | 159.1 | 204.7 | 201.2 | 168.5 | 143.6 | 141.0 |
| 87.5° | 41.3 | 37.0 | 43.0 | 31.8 | 33.5 | 30.1 | 31.0 | 12.9 | 6.0 | 2.6 | 1.7 |
| 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)