

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: STREETWORKS

Report Number: P451602

Luminaire Tested: **GLAN-SA2C-727-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451602
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: STREETWORKS
Catalog Number: GLAN-SA2C-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12050 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

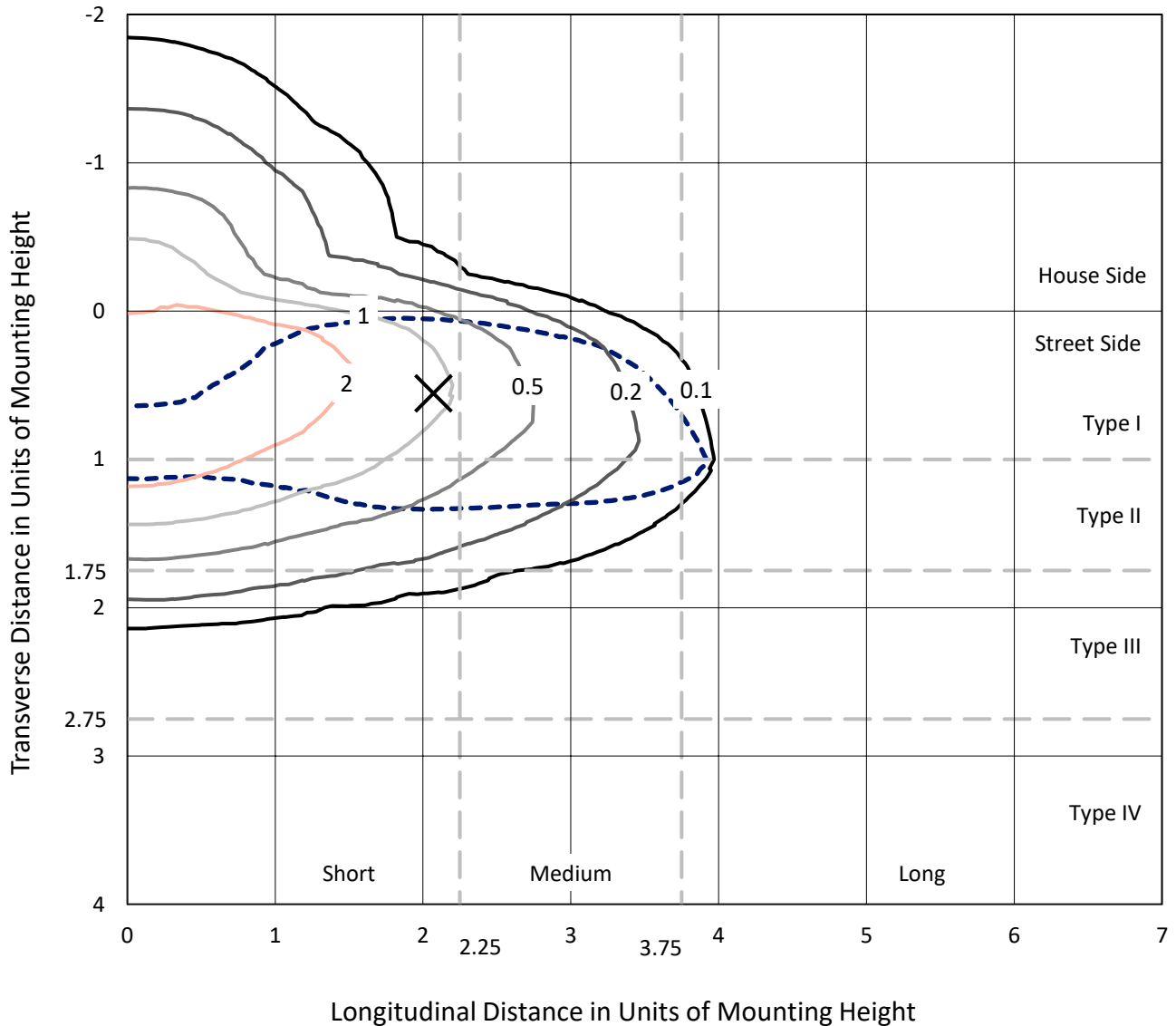
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

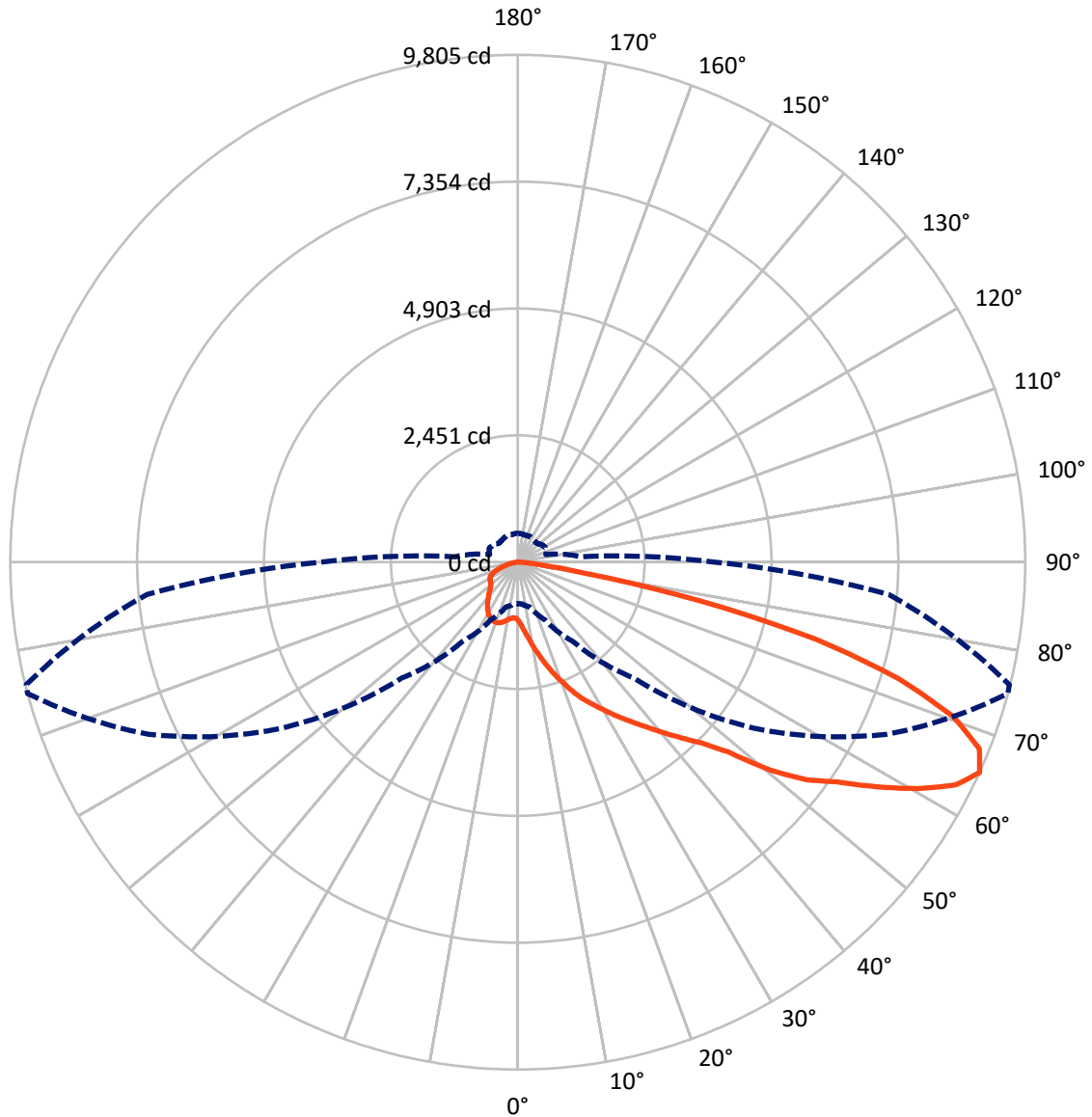
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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 | 2025.8 | 0.0 | 2025.8 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 10024.2 | 0.0 | 10024.2 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 12050.0 | 0.0 | 12050.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 136.0 | 1.1 |
| 10°-20° | 532.8 | 4.4 |
| 20°-30° | 1029.2 | 8.5 |
| 30°-40° | 1671.7 | 13.9 |
| 40°-50° | 2299.6 | 19.1 |
| 50°-60° | 2715.0 | 22.5 |
| 60°-70° | 2378.8 | 19.7 |
| 70°-80° | 1135.7 | 9.4 |
| 80°-90° | 151.1 | 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° | 12050.0 | 100.0 |
| 0°-180° | 12050.0 | 100.0 |

Coefficient of Utilization



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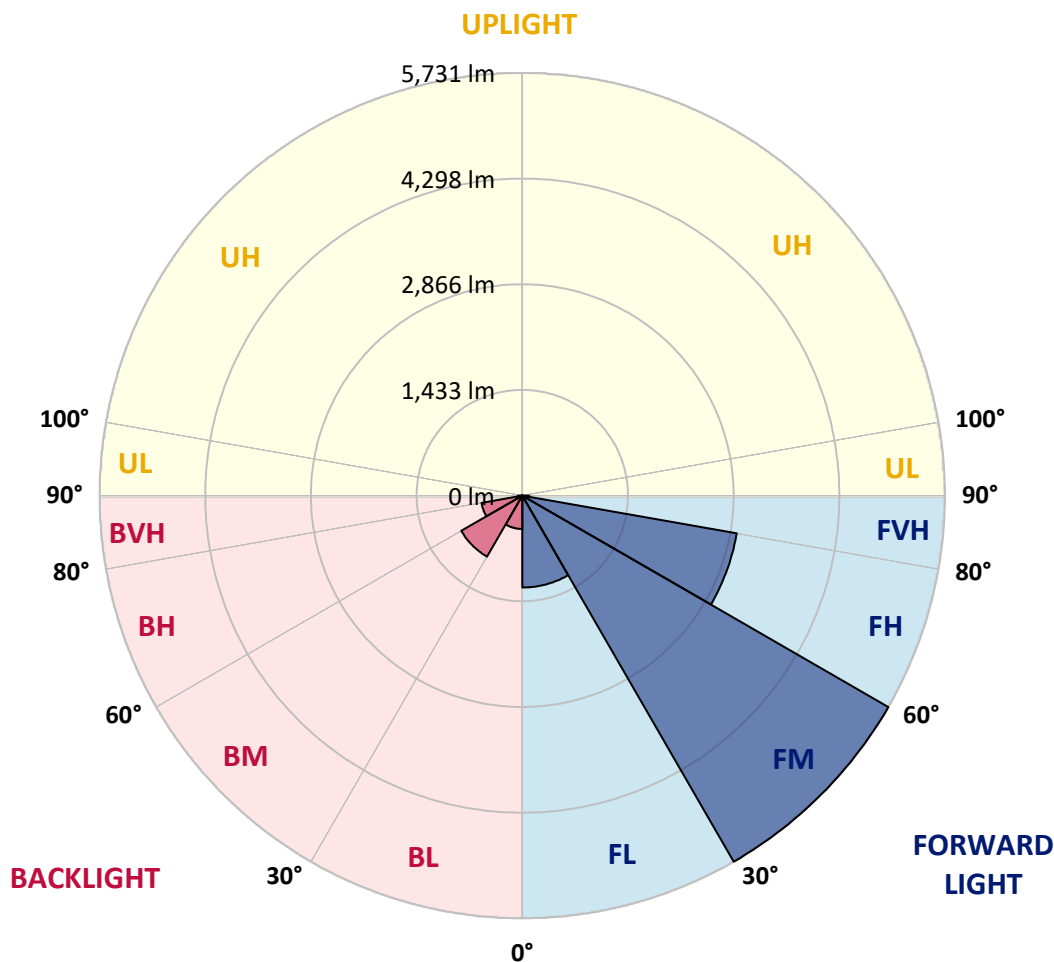
CATALOG NUMBER: GLAN-SA2C-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1245.8 | 10.3 | | | |
| FM (30°-60°) | 5731.2 | 47.6 | | | |
| FH (60°-80°) | 2952.8 | 24.5 | | | G2/5000 |
| FVH (80°-90°) | 94.4 | 0.8 | | | G1/100 |
| BL (0°-30°) | 452.2 | 3.8 | B1/500 | | |
| BM (30°-60°) | 955.1 | 7.9 | B1/1000 | | |
| BH (60°-80°) | 561.7 | 4.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 56.7 | 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° | 1119.6 | 1119.6 | 1119.6 | 1119.6 | 1119.6 | 1119.6 | 1119.6 | 1119.6 | 1119.6 | 1119.6 | 1119.6 |
| 2.5° | 1487.6 | 1477.8 | 1467.3 | 1438.5 | 1407.8 | 1373.2 | 1323.5 | 1275.8 | 1212.4 | 1210.4 | 1163.4 |
| 5° | 1900.0 | 1893.4 | 1847.0 | 1820.2 | 1749.0 | 1654.2 | 1573.8 | 1449.0 | 1333.3 | 1319.6 | 1228.1 |
| 7.5° | 2279.1 | 2253.6 | 2235.9 | 2187.6 | 2117.0 | 1995.4 | 1839.9 | 1671.2 | 1477.8 | 1459.5 | 1307.8 |
| 10° | 2564.7 | 2562.1 | 2552.9 | 2511.1 | 2458.1 | 2337.2 | 2164.7 | 1922.9 | 1660.8 | 1624.8 | 1404.6 |
| 12.5° | 2778.4 | 2780.4 | 2779.1 | 2778.4 | 2740.5 | 2637.9 | 2451.0 | 2196.1 | 1845.7 | 1820.2 | 1516.3 |
| 15° | 2918.9 | 2938.5 | 2946.4 | 2979.1 | 2982.3 | 2913.7 | 2752.9 | 2460.1 | 2054.2 | 2016.3 | 1636.6 |
| 17.5° | 3011.7 | 3021.5 | 3058.1 | 3113.7 | 3158.8 | 3146.4 | 3003.2 | 2704.5 | 2267.3 | 2203.9 | 1761.4 |
| 20° | 3100.6 | 3117.6 | 3145.7 | 3221.5 | 3301.3 | 3337.9 | 3237.2 | 2954.9 | 2478.4 | 2437.9 | 1899.3 |
| 22.5° | 3285.6 | 3309.8 | 3319.6 | 3358.1 | 3426.1 | 3490.8 | 3445.1 | 3194.7 | 2709.8 | 2654.9 | 2045.7 |
| 25° | 3598.7 | 3624.1 | 3596.7 | 3587.5 | 3609.8 | 3641.8 | 3632.0 | 3420.9 | 2928.1 | 2849.6 | 2184.3 |
| 27.5° | 4006.5 | 4009.8 | 3956.2 | 3905.2 | 3850.3 | 3834.0 | 3803.9 | 3621.5 | 3117.6 | 3052.3 | 2323.5 |
| 30° | 4444.4 | 4428.7 | 4339.8 | 4247.7 | 4154.9 | 4063.4 | 3977.1 | 3815.0 | 3328.7 | 3253.6 | 2460.1 |
| 32.5° | 4850.9 | 4842.4 | 4743.7 | 4600.6 | 4443.7 | 4357.5 | 4183.0 | 4010.4 | 3554.9 | 3482.3 | 2600.6 |
| 35° | 5155.5 | 5167.9 | 5059.4 | 4903.2 | 4732.0 | 4655.5 | 4435.3 | 4215.6 | 3788.9 | 3709.8 | 2753.6 |
| 37.5° | 5371.8 | 5365.3 | 5269.2 | 5133.9 | 4983.6 | 4916.9 | 4730.0 | 4439.8 | 4040.5 | 3964.7 | 2920.9 |
| 40° | 5449.0 | 5445.0 | 5373.8 | 5275.1 | 5179.7 | 5156.2 | 5038.5 | 4681.7 | 4328.7 | 4239.8 | 3122.2 |
| 42.5° | 5399.9 | 5408.4 | 5361.4 | 5334.6 | 5316.9 | 5333.9 | 5345.0 | 4998.6 | 4643.1 | 4561.4 | 3340.5 |
| 45° | 5249.6 | 5245.0 | 5238.5 | 5282.3 | 5381.6 | 5493.4 | 5648.3 | 5298.0 | 4984.9 | 4919.6 | 3633.3 |
| 47.5° | 4981.0 | 5013.7 | 5030.0 | 5150.9 | 5367.9 | 5632.6 | 5997.3 | 5699.3 | 5481.0 | 5424.1 | 4079.7 |
| 50° | 4605.2 | 4631.3 | 4728.1 | 4943.1 | 5266.6 | 5684.9 | 6338.5 | 6355.5 | 6308.4 | 6201.9 | 4564.7 |
| 52.5° | 4018.3 | 4058.8 | 4258.1 | 4652.2 | 5058.8 | 5663.3 | 6545.0 | 6918.2 | 6980.3 | 6900.6 | 5042.4 |
| 55° | 3361.4 | 3418.3 | 3628.7 | 4145.7 | 4772.5 | 5545.7 | 6687.5 | 7244.4 | 7492.1 | 7418.2 | 5502.6 |
| 57.5° | 2718.3 | 2778.4 | 2994.7 | 3495.4 | 4273.2 | 5285.6 | 6781.0 | 7607.8 | 8188.8 | 8092.7 | 6075.1 |
| 60° | 2037.2 | 2100.0 | 2285.6 | 2801.3 | 3562.1 | 4777.1 | 6717.6 | 7922.8 | 8884.9 | 8843.7 | 6648.3 |
| 62.5° | 1314.4 | 1383.6 | 1545.1 | 1971.9 | 2737.9 | 4082.3 | 6378.4 | 8096.7 | 9487.5 | 9437.8 | 7066.6 |
| 65° | 800.6 | 808.5 | 897.4 | 1224.2 | 1873.8 | 3160.8 | 5602.6 | 7865.9 | 9805.1 | 9790.1 | 7194.0 |
| 67.5° | 517.6 | 530.1 | 570.6 | 733.3 | 1123.5 | 2195.4 | 4479.7 | 7104.5 | 9619.5 | 9614.3 | 6930.7 |
| 70° | 437.3 | 441.2 | 459.5 | 494.8 | 652.9 | 1331.4 | 3145.7 | 5890.8 | 8914.3 | 8914.3 | 6297.3 |
| 72.5° | 390.8 | 396.1 | 402.6 | 413.7 | 466.0 | 754.2 | 1877.1 | 4585.6 | 7696.7 | 7747.6 | 5360.1 |
| 75° | 354.9 | 353.6 | 357.5 | 359.5 | 397.4 | 492.8 | 970.6 | 3391.5 | 5954.2 | 5852.2 | 3881.7 |
| 77.5° | 303.9 | 305.9 | 303.9 | 312.4 | 351.0 | 375.2 | 492.8 | 2275.8 | 3608.5 | 3476.4 | 1948.3 |
| 80° | 249.7 | 252.9 | 256.2 | 261.4 | 300.0 | 285.0 | 296.1 | 1037.2 | 1334.6 | 1306.5 | 602.0 |
| 82.5° | 187.6 | 192.2 | 197.4 | 209.8 | 235.9 | 188.2 | 186.9 | 443.1 | 481.7 | 441.2 | 221.6 |
| 85° | 75.8 | 89.5 | 135.3 | 147.7 | 148.4 | 103.3 | 115.0 | 185.0 | 196.7 | 192.2 | 86.9 |
| 87.5° | 17.6 | 20.9 | 43.8 | 66.0 | 60.8 | 38.6 | 42.5 | 60.1 | 68.6 | 63.4 | 29.4 |
| 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° | 1119.6 | 1119.6 | 1119.6 | 1119.6 | 1119.6 | 1119.6 | 1119.6 | 1119.6 | 1119.6 | 1119.6 | 1119.6 |
| 2.5° | 1141.8 | 1118.9 | 1079.7 | 1049.7 | 1028.1 | 1009.1 | 997.4 | 990.2 | 987.6 | 986.9 | 987.6 |
| 5° | 1180.4 | 1139.9 | 1077.8 | 1038.6 | 1017.0 | 1004.6 | 997.4 | 996.7 | 997.4 | 998.0 | 996.1 |
| 7.5° | 1233.3 | 1175.2 | 1094.1 | 1057.5 | 1041.2 | 1032.0 | 1028.7 | 1027.4 | 1028.1 | 1027.4 | 1027.4 |
| 10° | 1303.9 | 1224.2 | 1126.1 | 1088.2 | 1074.5 | 1064.0 | 1058.8 | 1055.5 | 1052.9 | 1050.3 | 1049.0 |
| 12.5° | 1381.7 | 1278.4 | 1160.8 | 1124.2 | 1104.6 | 1088.2 | 1076.5 | 1068.0 | 1062.1 | 1056.2 | 1054.9 |
| 15° | 1468.6 | 1335.9 | 1199.3 | 1148.4 | 1120.3 | 1096.1 | 1075.8 | 1062.1 | 1051.6 | 1043.1 | 1042.5 |
| 17.5° | 1551.6 | 1390.2 | 1225.5 | 1159.5 | 1118.3 | 1084.3 | 1057.5 | 1038.6 | 1025.5 | 1014.4 | 1013.1 |
| 20° | 1640.5 | 1441.8 | 1237.2 | 1152.3 | 1098.7 | 1057.5 | 1022.2 | 999.3 | 984.3 | 971.9 | 969.9 |
| 22.5° | 1730.0 | 1485.6 | 1235.9 | 1129.4 | 1064.7 | 1016.3 | 979.1 | 954.9 | 937.2 | 924.8 | 920.3 |
| 25° | 1815.7 | 1520.9 | 1219.6 | 1092.8 | 1017.6 | 967.3 | 929.4 | 907.2 | 891.5 | 876.5 | 876.5 |
| 27.5° | 1892.8 | 1541.8 | 1188.9 | 1048.4 | 969.3 | 916.3 | 886.3 | 866.0 | 851.6 | 841.8 | 835.9 |
| 30° | 1968.6 | 1551.6 | 1147.0 | 992.1 | 918.3 | 873.2 | 849.0 | 837.2 | 824.2 | 813.1 | 811.8 |
| 32.5° | 2036.6 | 1549.7 | 1094.8 | 937.2 | 869.9 | 837.9 | 828.1 | 818.9 | 805.2 | 789.5 | 785.6 |
| 35° | 2102.6 | 1536.6 | 1032.7 | 877.1 | 829.4 | 817.0 | 819.6 | 806.5 | 781.7 | 762.1 | 758.8 |
| 37.5° | 2174.5 | 1513.1 | 964.7 | 828.1 | 795.4 | 807.2 | 813.7 | 785.0 | 744.4 | 713.7 | 706.5 |
| 40° | 2257.5 | 1486.3 | 894.1 | 779.1 | 768.6 | 798.0 | 798.0 | 745.1 | 689.5 | 670.6 | 665.4 |
| 42.5° | 2354.9 | 1464.0 | 835.3 | 737.9 | 746.4 | 775.8 | 772.5 | 692.2 | 669.3 | 659.5 | 656.9 |
| 45° | 2509.1 | 1456.2 | 774.5 | 702.0 | 728.1 | 749.7 | 722.9 | 673.8 | 660.8 | 652.9 | 650.3 |
| 47.5° | 2752.9 | 1465.3 | 720.9 | 675.2 | 707.2 | 723.5 | 667.3 | 661.4 | 652.3 | 641.2 | 639.9 |
| 50° | 2979.1 | 1456.8 | 683.0 | 660.1 | 688.9 | 692.2 | 644.4 | 646.4 | 641.2 | 628.8 | 626.1 |
| 52.5° | 3164.0 | 1430.1 | 658.8 | 652.3 | 673.2 | 637.2 | 622.9 | 630.1 | 628.1 | 612.4 | 609.8 |
| 55° | 3367.3 | 1413.7 | 647.1 | 652.3 | 662.7 | 589.5 | 602.6 | 613.1 | 610.5 | 599.3 | 598.7 |
| 57.5° | 3613.7 | 1417.0 | 638.6 | 654.2 | 652.3 | 565.4 | 582.3 | 594.8 | 594.1 | 590.8 | 590.8 |
| 60° | 3866.0 | 1418.3 | 625.5 | 653.6 | 639.9 | 546.4 | 561.4 | 579.1 | 580.4 | 582.3 | 582.3 |
| 62.5° | 3949.6 | 1361.4 | 600.0 | 641.8 | 612.4 | 528.1 | 541.8 | 566.0 | 564.7 | 569.9 | 570.6 |
| 65° | 3793.4 | 1203.9 | 562.1 | 615.0 | 577.1 | 515.0 | 526.8 | 549.0 | 541.8 | 555.6 | 558.2 |
| 67.5° | 3452.9 | 996.1 | 503.3 | 566.7 | 537.9 | 501.3 | 517.0 | 525.5 | 512.4 | 539.2 | 539.9 |
| 70° | 2984.3 | 777.8 | 428.8 | 498.0 | 493.5 | 486.9 | 509.1 | 496.1 | 477.8 | 510.5 | 503.9 |
| 72.5° | 2495.4 | 594.1 | 342.5 | 407.2 | 434.0 | 465.4 | 495.4 | 458.2 | 432.7 | 442.5 | 430.7 |
| 75° | 1874.5 | 439.2 | 275.2 | 319.0 | 361.4 | 434.6 | 483.0 | 412.4 | 373.2 | 364.0 | 361.4 |
| 77.5° | 955.5 | 286.9 | 205.9 | 238.6 | 271.2 | 392.8 | 466.0 | 358.8 | 309.1 | 294.8 | 288.2 |
| 80° | 341.2 | 178.4 | 145.1 | 164.7 | 183.0 | 337.9 | 407.2 | 296.7 | 239.9 | 237.3 | 239.9 |
| 82.5° | 158.2 | 115.0 | 97.4 | 107.8 | 108.5 | 225.5 | 310.5 | 221.6 | 182.4 | 277.1 | 234.0 |
| 85° | 68.0 | 57.5 | 54.9 | 53.6 | 49.7 | 100.7 | 174.5 | 119.0 | 185.6 | 83.0 | 76.5 |
| 87.5° | 20.3 | 22.9 | 20.3 | 15.0 | 11.1 | 11.1 | 17.6 | 6.5 | 4.6 | 3.3 | 3.3 |
| 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)