

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: P650275

Luminaire Tested: **GLAN-SA2B-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2B-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8940.3 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

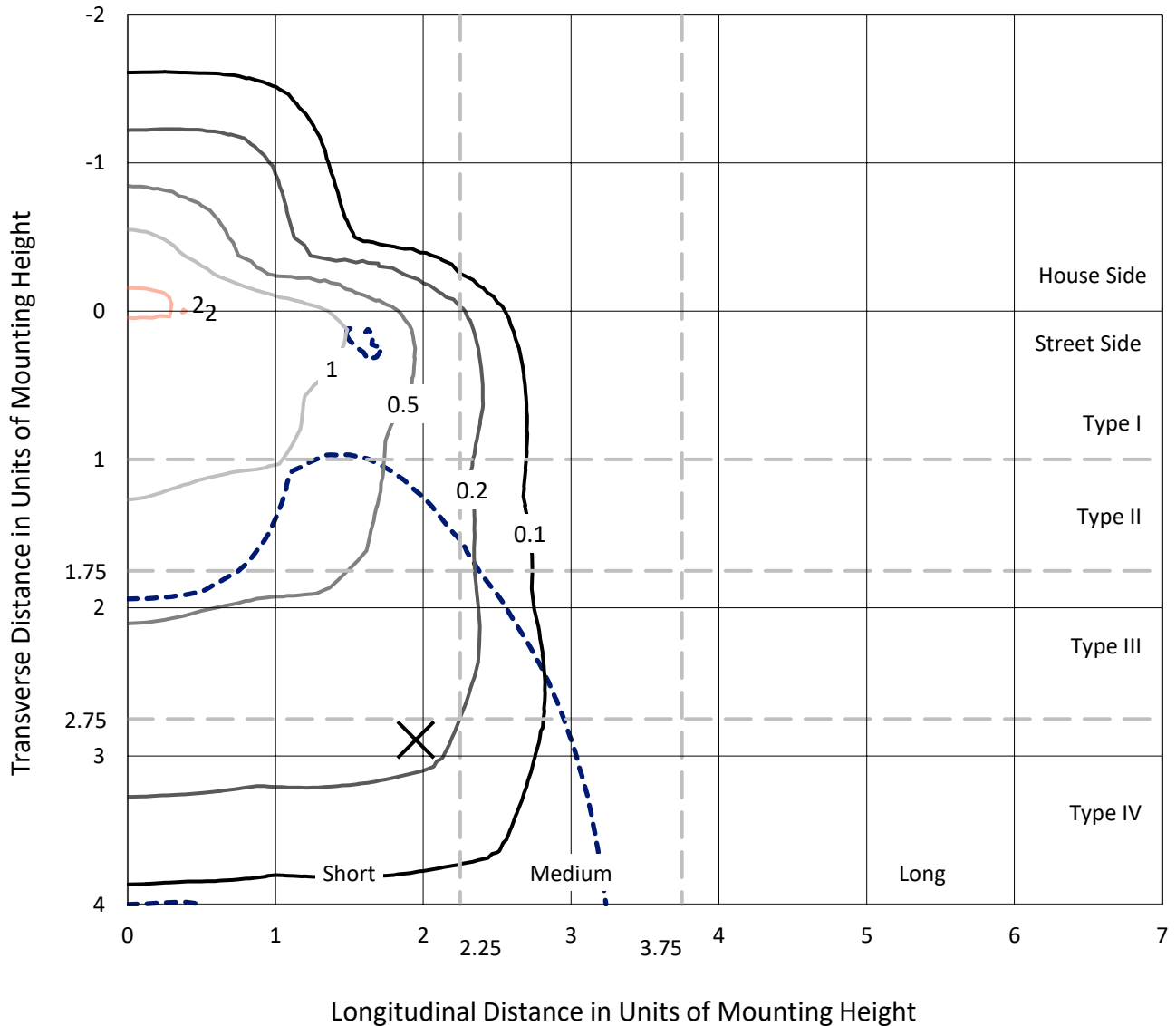
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

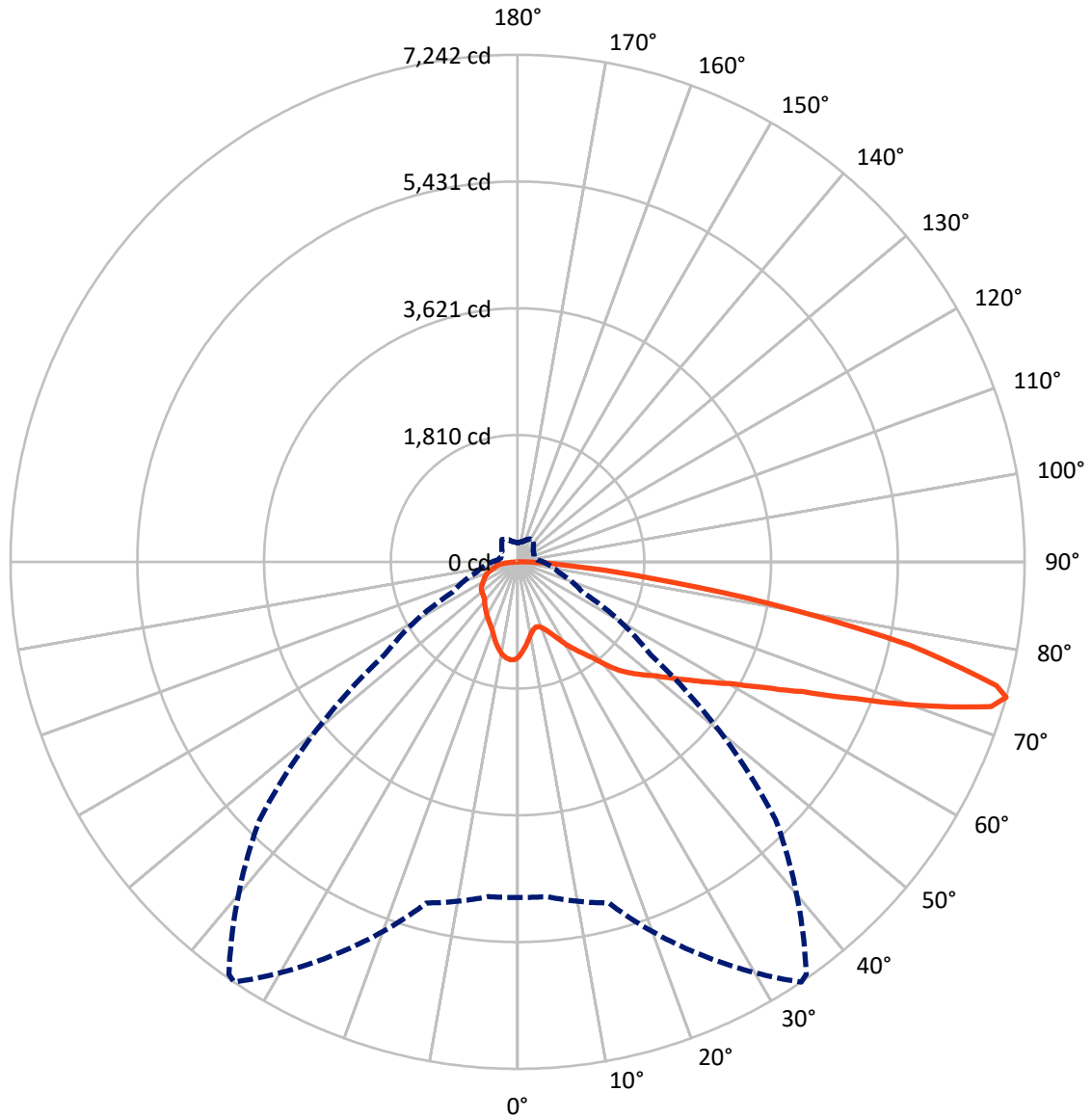
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1902.6 | 0.0 | 1902.6 |
| | % Fixture | 21.3 | 0.0 | 21.3 |
| Street Side | Lumens | 7037.7 | 0.0 | 7037.7 |
| | % Fixture | 78.7 | 0.0 | 78.7 |
| Total | Lumens | 8940.3 | 0.0 | 8940.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 124.1 | 1.4 |
| 10°-20° | 339.8 | 3.8 |
| 20°-30° | 560.3 | 6.3 |
| 30°-40° | 839.3 | 9.4 |
| 40°-50° | 1220.0 | 13.6 |
| 50°-60° | 1704.1 | 19.1 |
| 60°-70° | 2133.5 | 23.9 |
| 70°-80° | 1764.2 | 19.7 |
| 80°-90° | 254.9 | 2.9 |
| 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° | 8940.3 | 100.0 |
| 0°-180° | 8940.3 | 100.0 |

Coefficient of Utilization

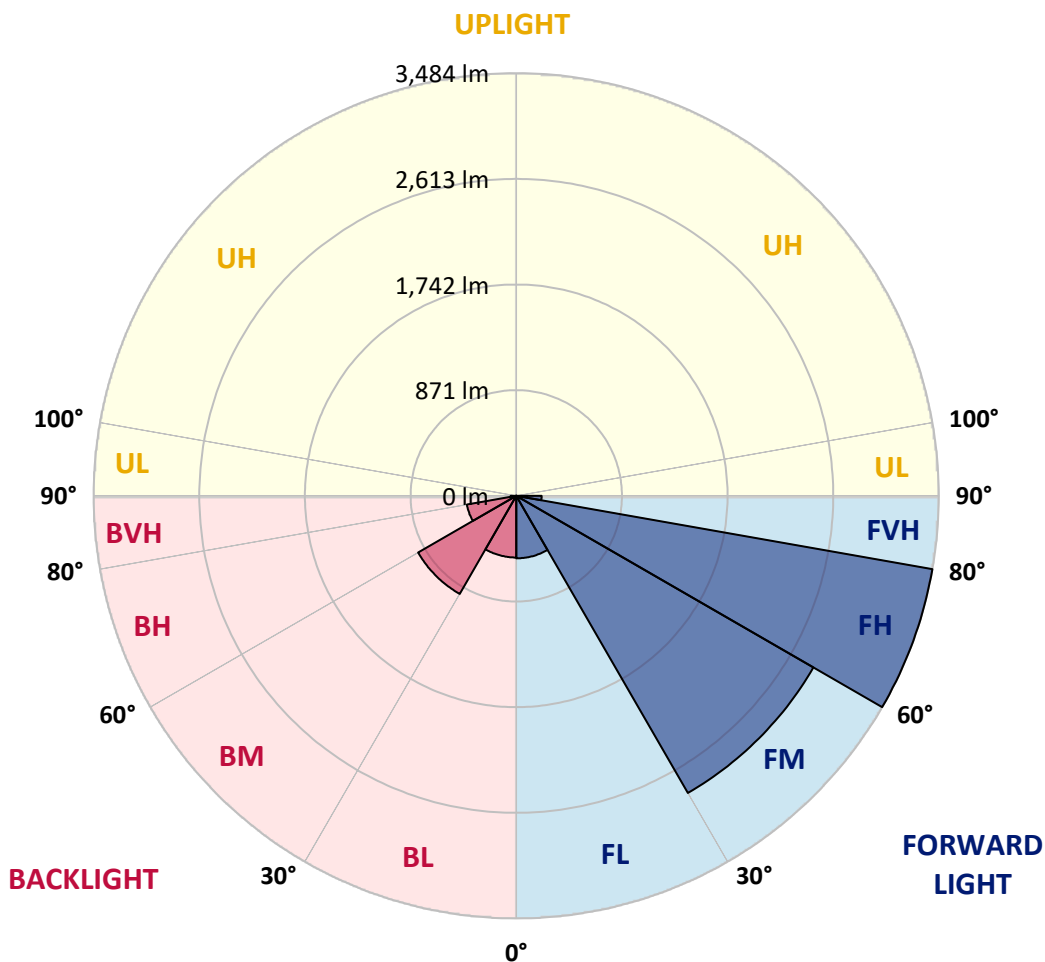


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 515.4 | 5.8 | | | |
| FM (30°-60°) | 2829.1 | 31.6 | | | |
| FH (60°-80°) | 3484.5 | 39.0 | | | G2/5000 |
| FVH (80°-90°) | 208.8 | 2.3 | | | G2/225 |
| BL (0°-30°) | 508.9 | 5.7 | B2/1000 | | |
| BM (30°-60°) | 934.4 | 10.5 | B1/1000 | | |
| BH (60°-80°) | 413.2 | 4.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 46.1 | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1365.0 | 1365.0 | 1365.0 | 1365.0 | 1365.0 | 1365.0 | 1365.0 | 1365.0 | 1365.0 | 1365.0 | 1365.0 |
| 2.5° | 1261.5 | 1267.9 | 1271.4 | 1283.8 | 1286.8 | 1290.7 | 1301.1 | 1315.0 | 1332.8 | 1348.6 | 1362.5 |
| 5° | 1156.5 | 1166.4 | 1172.3 | 1183.3 | 1204.6 | 1206.5 | 1234.2 | 1266.0 | 1302.1 | 1335.8 | 1363.5 |
| 7.5° | 1057.0 | 1067.9 | 1072.8 | 1092.6 | 1120.9 | 1125.2 | 1165.9 | 1215.9 | 1276.4 | 1327.3 | 1369.9 |
| 10° | 982.1 | 987.6 | 998.5 | 1013.4 | 1047.0 | 1050.0 | 1103.0 | 1169.9 | 1248.1 | 1323.4 | 1380.8 |
| 12.5° | 941.6 | 944.5 | 947.0 | 962.9 | 996.1 | 1000.4 | 1056.0 | 1131.7 | 1225.9 | 1326.4 | 1398.7 |
| 15° | 947.5 | 948.4 | 937.6 | 940.5 | 967.3 | 973.7 | 1028.7 | 1106.5 | 1211.9 | 1333.8 | 1425.5 |
| 17.5° | 997.5 | 994.0 | 967.3 | 953.5 | 972.3 | 975.2 | 1023.2 | 1096.6 | 1205.5 | 1347.7 | 1453.2 |
| 20° | 1076.2 | 1071.3 | 1025.3 | 994.6 | 1005.5 | 1007.9 | 1041.1 | 1104.0 | 1211.9 | 1370.5 | 1496.2 |
| 22.5° | 1174.3 | 1172.3 | 1102.5 | 1065.3 | 1064.9 | 1064.9 | 1082.2 | 1130.7 | 1231.3 | 1401.6 | 1541.3 |
| 25° | 1311.5 | 1301.1 | 1210.0 | 1162.0 | 1148.6 | 1147.6 | 1145.6 | 1174.8 | 1256.0 | 1434.8 | 1594.8 |
| 27.5° | 1452.2 | 1434.4 | 1353.1 | 1279.3 | 1250.6 | 1247.2 | 1234.2 | 1237.2 | 1287.7 | 1472.5 | 1655.7 |
| 30° | 1578.4 | 1567.1 | 1490.8 | 1409.1 | 1374.9 | 1367.0 | 1331.3 | 1315.0 | 1340.7 | 1540.3 | 1752.8 |
| 32.5° | 1675.1 | 1668.1 | 1608.7 | 1534.4 | 1483.9 | 1482.4 | 1430.4 | 1417.0 | 1423.4 | 1622.5 | 1863.8 |
| 35° | 1753.3 | 1755.8 | 1725.6 | 1661.2 | 1603.3 | 1594.8 | 1560.1 | 1543.3 | 1524.5 | 1741.4 | 2003.5 |
| 37.5° | 1860.3 | 1865.7 | 1863.8 | 1808.3 | 1737.5 | 1739.4 | 1731.5 | 1703.8 | 1653.8 | 1874.2 | 2158.4 |
| 40° | 1978.2 | 1982.2 | 1981.6 | 1960.3 | 1923.2 | 1925.2 | 1922.2 | 1890.5 | 1815.7 | 2043.1 | 2330.8 |
| 42.5° | 2141.1 | 2122.3 | 2073.2 | 2094.5 | 2116.4 | 2125.8 | 2146.0 | 2115.8 | 2013.3 | 2223.3 | 2492.8 |
| 45° | 2323.4 | 2287.7 | 2176.7 | 2186.7 | 2267.4 | 2285.3 | 2397.2 | 2355.6 | 2227.8 | 2430.4 | 2683.4 |
| 47.5° | 2438.3 | 2403.1 | 2309.5 | 2307.5 | 2414.5 | 2431.8 | 2629.9 | 2614.6 | 2422.9 | 2653.7 | 2916.2 |
| 50° | 2540.8 | 2535.8 | 2430.4 | 2455.6 | 2560.1 | 2585.9 | 2883.6 | 2869.2 | 2617.6 | 2917.2 | 3169.8 |
| 52.5° | 2692.9 | 2652.7 | 2568.6 | 2620.5 | 2758.7 | 2792.4 | 3135.1 | 3093.1 | 2796.4 | 3150.0 | 3416.0 |
| 55° | 2761.2 | 2751.8 | 2746.8 | 2791.9 | 2981.6 | 3005.9 | 3379.8 | 3283.3 | 2948.9 | 3347.2 | 3603.2 |
| 57.5° | 2944.0 | 2926.6 | 2975.6 | 3006.4 | 3244.1 | 3281.2 | 3635.4 | 3481.8 | 3082.7 | 3503.6 | 3694.4 |
| 60° | 3180.7 | 3171.3 | 3216.4 | 3271.8 | 3537.4 | 3593.8 | 3926.6 | 3651.2 | 3190.1 | 3582.4 | 3644.3 |
| 62.5° | 3534.4 | 3533.4 | 3524.9 | 3643.8 | 3952.9 | 4004.9 | 4260.9 | 3816.2 | 3206.9 | 3523.4 | 3385.8 |
| 65° | 4041.5 | 4023.7 | 3950.4 | 4080.1 | 4469.9 | 4530.9 | 4609.1 | 3908.3 | 3105.5 | 3220.9 | 2850.8 |
| 67.5° | 4572.0 | 4571.0 | 4511.6 | 4679.9 | 5212.4 | 5275.3 | 5044.5 | 3888.0 | 2823.7 | 2609.2 | 2024.8 |
| 70° | 5011.8 | 4990.5 | 5066.2 | 5515.0 | 6160.9 | 6233.7 | 5425.3 | 3648.8 | 2249.1 | 1723.1 | 1203.1 |
| 72.5° | 5117.3 | 5118.3 | 5275.8 | 6158.8 | 7071.7 | 7083.1 | 5562.5 | 2957.3 | 1505.2 | 950.5 | 601.7 |
| 74° | 4792.4 | 4800.8 | 5044.9 | 6191.1 | 7241.6 | 7190.1 | 5211.9 | 2324.3 | 1017.8 | 620.6 | 433.9 |
| 75° | 4374.4 | 4321.4 | 4674.5 | 5976.6 | 7065.2 | 7009.8 | 4801.3 | 1865.3 | 776.6 | 495.8 | 379.9 |
| 77.5° | 2338.7 | 2392.7 | 2937.5 | 4460.0 | 5739.9 | 5676.0 | 3255.5 | 894.5 | 419.5 | 345.2 | 273.4 |
| 80° | 832.6 | 918.2 | 1290.7 | 2333.8 | 3679.9 | 3699.8 | 1553.7 | 410.1 | 295.2 | 254.6 | 193.2 |
| 82.5° | 339.7 | 349.1 | 554.2 | 1035.7 | 1868.7 | 1886.6 | 634.5 | 243.7 | 211.0 | 175.3 | 115.4 |
| 85° | 132.7 | 136.7 | 245.2 | 465.6 | 797.4 | 849.4 | 219.4 | 128.8 | 129.7 | 100.5 | 59.0 |
| 87.5° | 44.6 | 50.5 | 100.5 | 155.0 | 270.9 | 265.4 | 63.9 | 38.1 | 46.6 | 43.6 | 18.3 |
| 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° | 1365.0 | 1365.0 | 1365.0 | 1365.0 | 1365.0 | 1365.0 | 1365.0 | 1365.0 | 1365.0 | 1365.0 | 1365.0 |
| 2.5° | 1369.5 | 1378.9 | 1385.3 | 1392.3 | 1398.7 | 1400.6 | 1399.1 | 1403.6 | 1404.2 | 1404.6 | 1405.1 |
| 5° | 1377.4 | 1390.3 | 1402.7 | 1409.6 | 1412.5 | 1410.1 | 1401.6 | 1397.2 | 1393.3 | 1390.3 | 1391.2 |
| 7.5° | 1388.3 | 1406.6 | 1418.0 | 1421.0 | 1413.1 | 1401.6 | 1380.8 | 1364.5 | 1354.1 | 1347.2 | 1346.7 |
| 10° | 1405.1 | 1422.9 | 1432.3 | 1424.0 | 1402.1 | 1374.4 | 1341.7 | 1311.1 | 1287.7 | 1280.8 | 1280.3 |
| 12.5° | 1426.4 | 1446.7 | 1446.2 | 1421.5 | 1383.3 | 1333.8 | 1280.8 | 1245.1 | 1213.4 | 1197.6 | 1204.0 |
| 15° | 1454.2 | 1469.5 | 1455.1 | 1410.6 | 1350.1 | 1282.3 | 1216.9 | 1168.4 | 1132.7 | 1115.9 | 1116.9 |
| 17.5° | 1486.4 | 1499.8 | 1461.5 | 1391.2 | 1303.6 | 1216.4 | 1140.7 | 1094.6 | 1066.4 | 1054.0 | 1053.0 |
| 20° | 1526.5 | 1530.5 | 1461.5 | 1357.6 | 1243.6 | 1139.7 | 1067.3 | 1035.1 | 1019.3 | 1012.9 | 1014.8 |
| 22.5° | 1569.5 | 1561.6 | 1453.6 | 1310.0 | 1164.9 | 1059.4 | 1010.9 | 996.5 | 988.6 | 987.6 | 988.6 |
| 25° | 1618.1 | 1595.8 | 1437.4 | 1245.7 | 1082.7 | 990.1 | 961.8 | 964.3 | 965.8 | 965.8 | 969.3 |
| 27.5° | 1677.5 | 1632.9 | 1410.1 | 1164.4 | 986.6 | 925.7 | 917.8 | 935.1 | 943.0 | 944.5 | 947.0 |
| 30° | 1755.8 | 1673.6 | 1365.0 | 1062.8 | 904.9 | 867.7 | 881.6 | 904.9 | 913.8 | 919.2 | 918.2 |
| 32.5° | 1848.9 | 1718.1 | 1304.1 | 961.4 | 839.0 | 827.2 | 844.0 | 867.7 | 877.7 | 880.6 | 876.6 |
| 35° | 1958.4 | 1768.6 | 1223.8 | 866.2 | 781.6 | 788.5 | 808.3 | 815.7 | 824.7 | 824.7 | 826.6 |
| 37.5° | 2076.2 | 1809.3 | 1125.8 | 779.1 | 737.0 | 762.3 | 776.6 | 769.7 | 765.7 | 760.8 | 763.3 |
| 40° | 2196.1 | 1839.5 | 998.5 | 692.9 | 692.4 | 735.0 | 739.0 | 719.2 | 703.3 | 698.4 | 695.9 |
| 42.5° | 2300.6 | 1858.3 | 883.6 | 626.0 | 650.3 | 708.2 | 711.2 | 679.6 | 654.3 | 639.4 | 634.5 |
| 45° | 2423.9 | 1880.1 | 771.2 | 570.6 | 611.2 | 686.9 | 694.4 | 651.8 | 614.7 | 583.4 | 575.5 |
| 47.5° | 2592.8 | 1929.6 | 682.5 | 527.5 | 582.9 | 673.6 | 684.0 | 629.0 | 580.0 | 539.3 | 532.9 |
| 50° | 2783.5 | 1997.5 | 613.6 | 498.2 | 561.2 | 661.7 | 674.6 | 605.7 | 547.8 | 502.7 | 497.8 |
| 52.5° | 2958.3 | 2034.2 | 554.2 | 472.0 | 539.9 | 639.9 | 662.2 | 588.9 | 516.1 | 466.0 | 461.6 |
| 55° | 3053.9 | 1974.7 | 495.8 | 446.2 | 510.7 | 611.7 | 644.9 | 565.6 | 485.4 | 446.8 | 440.3 |
| 57.5° | 3066.8 | 1851.9 | 442.8 | 418.5 | 479.9 | 577.0 | 612.7 | 537.4 | 465.6 | 433.4 | 427.9 |
| 60° | 2967.3 | 1668.7 | 401.7 | 395.7 | 448.7 | 537.8 | 576.5 | 512.6 | 445.3 | 418.5 | 413.0 |
| 62.5° | 2719.6 | 1469.5 | 372.9 | 374.9 | 417.0 | 496.7 | 549.7 | 488.8 | 426.0 | 402.1 | 397.2 |
| 65° | 2293.6 | 1212.9 | 345.2 | 353.6 | 388.8 | 464.6 | 525.5 | 469.0 | 406.6 | 389.8 | 385.3 |
| 67.5° | 1593.3 | 875.6 | 322.4 | 331.4 | 362.1 | 431.9 | 497.3 | 447.7 | 384.8 | 375.9 | 368.9 |
| 70° | 882.1 | 538.9 | 295.7 | 306.1 | 334.3 | 395.3 | 465.6 | 415.5 | 353.1 | 349.1 | 339.3 |
| 72.5° | 463.6 | 343.3 | 265.4 | 276.9 | 296.7 | 348.2 | 417.0 | 380.4 | 322.0 | 305.1 | 292.2 |
| 74° | 362.1 | 281.3 | 245.2 | 257.1 | 270.4 | 320.5 | 388.3 | 355.1 | 299.7 | 279.8 | 269.9 |
| 75° | 315.5 | 250.6 | 227.9 | 243.2 | 255.1 | 301.6 | 366.1 | 337.3 | 287.3 | 268.4 | 259.6 |
| 77.5° | 222.8 | 187.7 | 186.2 | 204.5 | 211.0 | 264.5 | 329.9 | 307.1 | 256.0 | 236.2 | 227.9 |
| 80° | 156.5 | 140.6 | 147.6 | 158.9 | 167.9 | 233.8 | 306.1 | 265.4 | 210.0 | 186.7 | 183.8 |
| 82.5° | 102.0 | 92.2 | 105.5 | 115.9 | 118.9 | 172.3 | 247.1 | 201.5 | 153.1 | 124.3 | 115.4 |
| 85° | 47.1 | 46.0 | 60.4 | 59.0 | 58.4 | 84.2 | 146.6 | 117.8 | 88.2 | 65.9 | 61.9 |
| 87.5° | 11.9 | 11.4 | 14.9 | 12.4 | 14.9 | 12.8 | 13.4 | 3.4 | 0.5 | 0.0 | 0.0 |
| 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)