

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: P650012

Luminaire Tested: **GLAN-SA7A-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7A-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18604.9 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

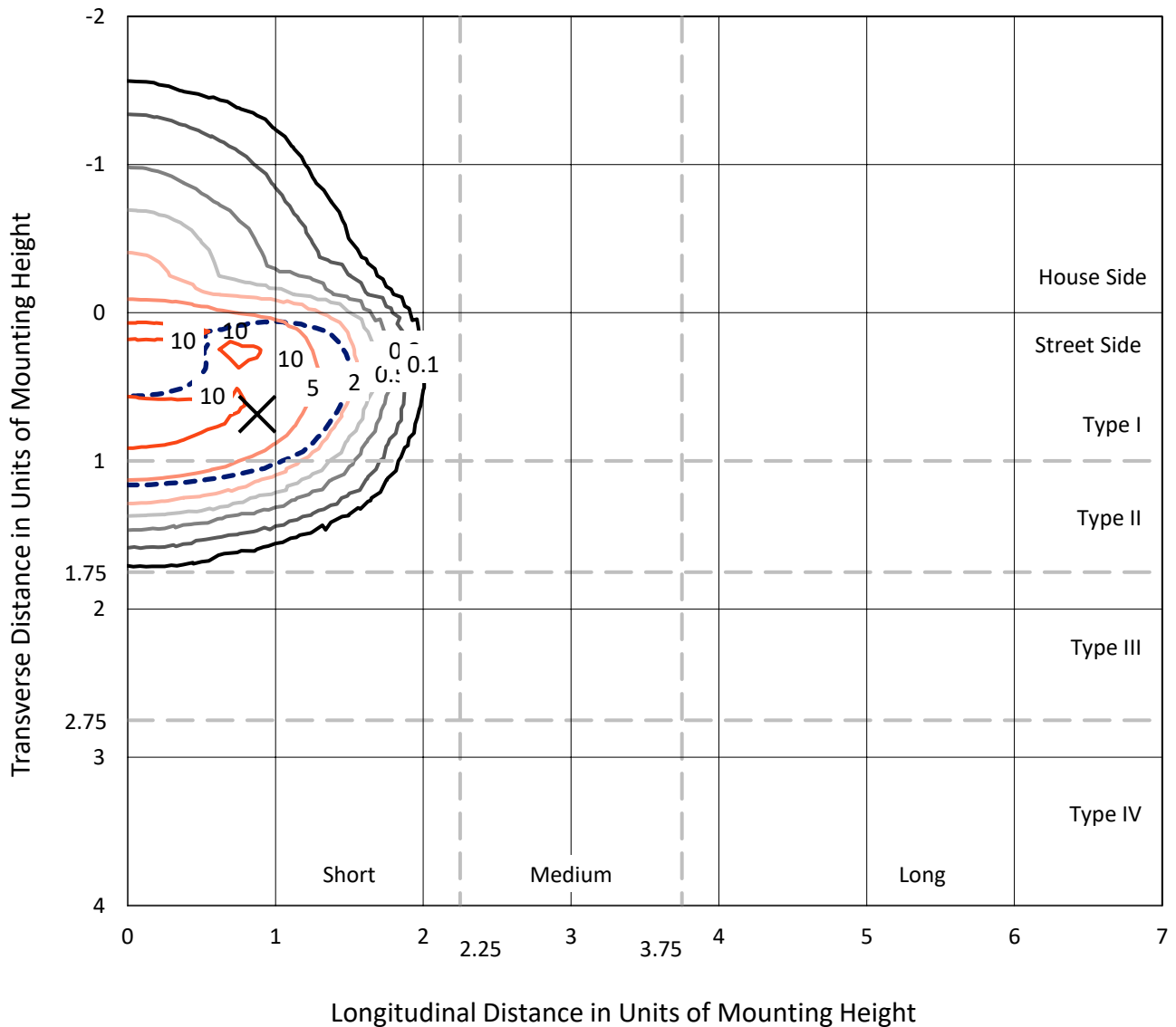
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

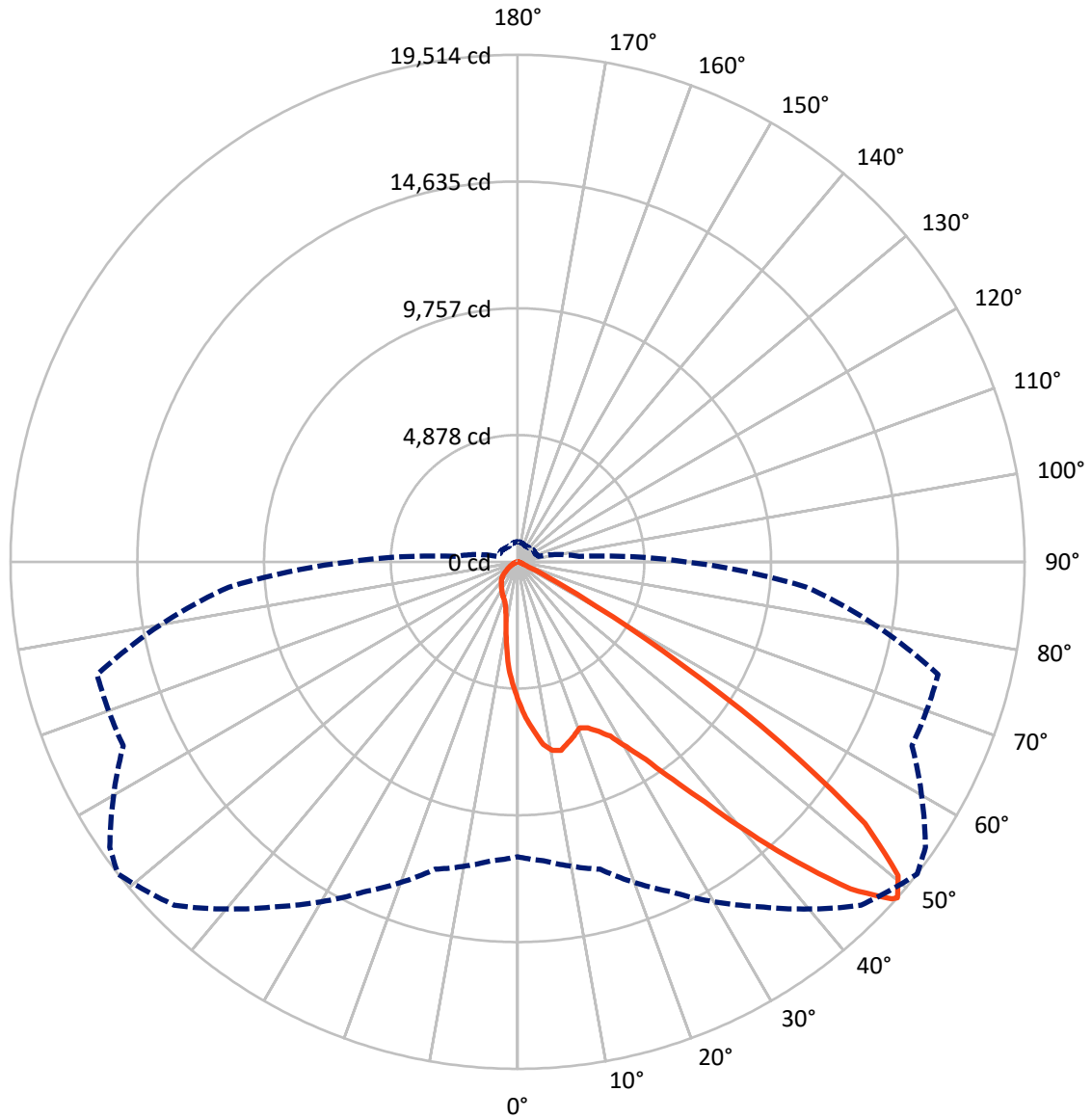
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2265.3 | 0.0 | 2265.3 |
| | % Fixture | 12.2 | 0.0 | 12.2 |
| Street Side | Lumens | 16339.6 | 0.0 | 16339.6 |
| | % Fixture | 87.8 | 0.0 | 87.8 |
| Total | Lumens | 18604.9 | 0.0 | 18604.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 491.8 | 2.6 |
| 10°-20° | 1285.2 | 6.9 |
| 20°-30° | 2194.3 | 11.8 |
| 30°-40° | 4040.8 | 21.7 |
| 40°-50° | 6275.3 | 33.7 |
| 50°-60° | 3776.7 | 20.3 |
| 60°-70° | 436.8 | 2.3 |
| 70°-80° | 84.6 | 0.5 |
| 80°-90° | 19.5 | 0.1 |
| 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° | 18604.9 | 100.0 |
| 0°-180° | 18604.9 | 100.0 |

Coefficient of Utilization

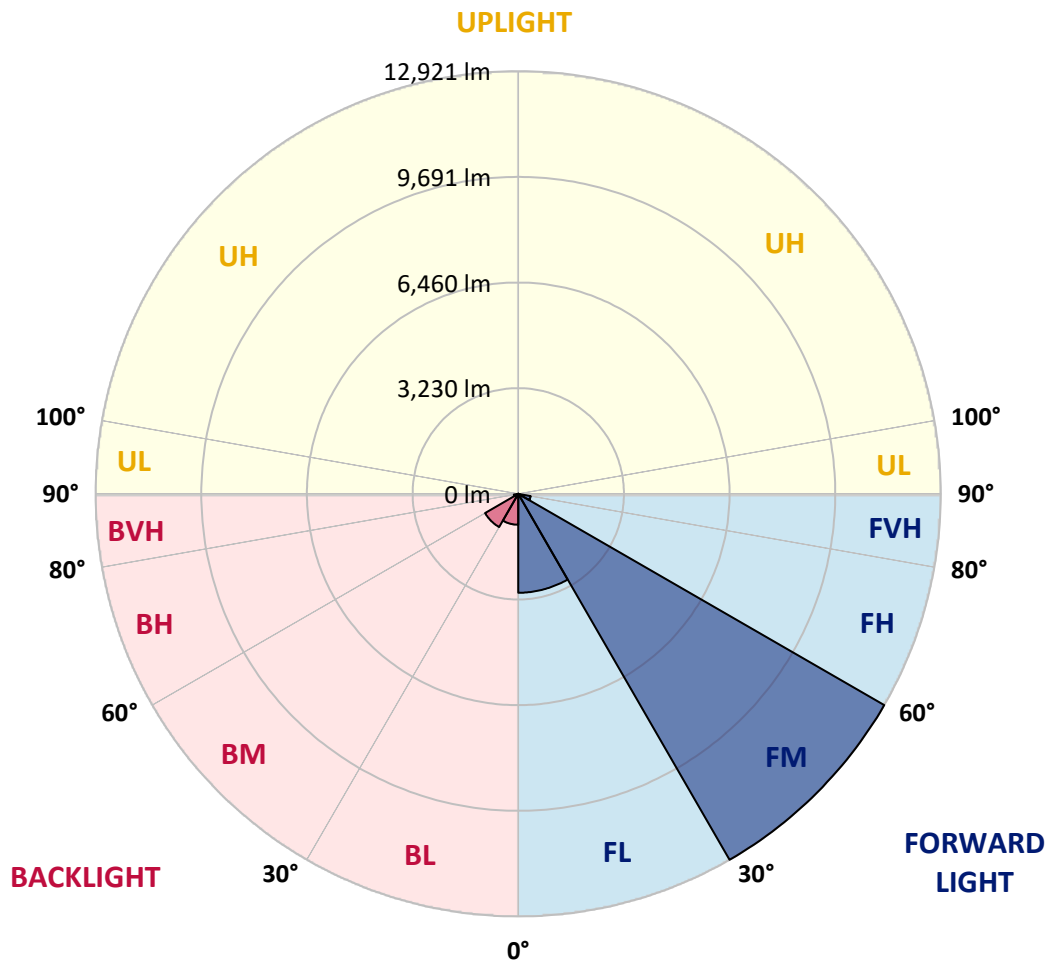


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 3024.9 | 16.3 | | | |
| FM (30°-60°) | 12920.7 | 69.4 | | | |
| FH (60°-80°) | 384.6 | 2.1 | | | G0/660 |
| FVH (80°-90°) | 9.3 | 0.0 | | | G0/10 |
| BL (0°-30°) | 946.3 | 5.1 | B2/1000 | | |
| BM (30°-60°) | 1172.0 | 6.3 | B2/2500 | | |
| BH (60°-80°) | 136.7 | 0.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 10.2 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5372.8 | 5372.8 | 5372.8 | 5372.8 | 5372.8 | 5372.8 | 5372.8 | 5372.8 | 5372.8 | 5372.8 | 5372.8 |
| 2.5° | 6511.9 | 6362.7 | 6376.3 | 6278.6 | 6221.7 | 6129.5 | 6004.7 | 5980.3 | 5844.7 | 5660.2 | 5473.1 |
| 5° | 7097.7 | 7062.4 | 7108.5 | 6967.5 | 6972.9 | 6821.0 | 6528.2 | 6533.6 | 6221.7 | 5920.7 | 5630.4 |
| 7.5° | 7135.7 | 7054.3 | 7100.4 | 7225.2 | 7298.4 | 7271.3 | 7105.8 | 6962.1 | 6666.5 | 6224.4 | 5801.3 |
| 10° | 6389.8 | 6544.4 | 6593.3 | 6799.3 | 7092.3 | 7401.5 | 7382.5 | 7390.6 | 7143.8 | 6566.2 | 5947.7 |
| 12.5° | 5942.3 | 5839.3 | 6004.7 | 6129.5 | 6571.6 | 7170.9 | 7444.8 | 7504.5 | 7523.5 | 6897.0 | 6094.2 |
| 15° | 5738.9 | 5738.9 | 5766.0 | 5801.3 | 6121.3 | 6674.6 | 7233.3 | 7406.9 | 7816.5 | 7330.9 | 6324.8 |
| 17.5° | 5866.4 | 5861.0 | 5899.0 | 5825.7 | 5945.0 | 6370.9 | 7038.1 | 7236.0 | 8144.6 | 7756.8 | 6506.4 |
| 20° | 6254.2 | 6273.2 | 6248.8 | 6037.2 | 6045.4 | 6365.4 | 6821.0 | 7133.0 | 8367.0 | 8125.6 | 6747.8 |
| 22.5° | 6793.9 | 6804.8 | 6666.5 | 6435.9 | 6368.1 | 6525.4 | 6945.8 | 7184.5 | 8546.0 | 8567.7 | 6821.0 |
| 25° | 7417.8 | 7374.4 | 7347.2 | 7021.8 | 6815.6 | 6951.2 | 7227.9 | 7366.2 | 8657.2 | 8947.4 | 7029.9 |
| 27.5° | 8282.9 | 8196.1 | 8030.7 | 7740.5 | 7588.6 | 7396.1 | 7594.0 | 7821.9 | 8974.5 | 9479.0 | 7257.7 |
| 30° | 9560.4 | 9484.4 | 9161.6 | 8787.4 | 8388.7 | 8198.9 | 8261.2 | 8386.0 | 9546.8 | 10094.7 | 7558.8 |
| 32.5° | 11483.2 | 11323.3 | 10856.8 | 10143.5 | 9601.0 | 9077.6 | 9061.3 | 9194.2 | 10059.4 | 10946.3 | 7916.8 |
| 35° | 13601.4 | 13552.6 | 12866.5 | 12131.5 | 11081.9 | 10273.7 | 10287.2 | 10357.7 | 11041.2 | 12063.7 | 8386.0 |
| 37.5° | 15009.1 | 15277.6 | 14840.9 | 14051.6 | 13170.2 | 12014.8 | 11721.9 | 11746.3 | 12389.1 | 13387.2 | 9232.2 |
| 40° | 16096.6 | 15868.8 | 15920.3 | 15736.0 | 15133.8 | 14347.3 | 13699.1 | 13571.6 | 13948.6 | 14851.8 | 10072.9 |
| 42.5° | 15622.0 | 15632.8 | 15950.2 | 16386.9 | 16536.0 | 16479.0 | 15817.3 | 15575.9 | 15283.0 | 16050.6 | 10873.1 |
| 45° | 14282.2 | 14561.5 | 14973.8 | 16129.2 | 17143.6 | 18095.5 | 17965.3 | 17563.9 | 16205.1 | 16999.8 | 11334.1 |
| 47.5° | 12145.0 | 12134.2 | 12809.5 | 14312.1 | 16565.9 | 18795.2 | 19386.5 | 19104.4 | 16858.8 | 16894.0 | 11239.2 |
| 48° | 11355.8 | 11551.1 | 12248.1 | 14016.4 | 16199.7 | 18692.2 | 19513.9 | 19158.7 | 16747.5 | 16753.0 | 11157.8 |
| 50° | 8394.2 | 8358.8 | 9226.7 | 11396.5 | 14469.4 | 17563.9 | 18976.9 | 19253.6 | 16744.8 | 16039.7 | 10588.3 |
| 52.5° | 4434.4 | 4586.3 | 5218.1 | 7165.5 | 10230.2 | 14374.4 | 16739.4 | 17170.6 | 16153.6 | 14873.5 | 9769.2 |
| 55° | 1884.9 | 1703.3 | 2188.7 | 3235.6 | 5755.2 | 9603.7 | 12280.7 | 13240.8 | 13658.4 | 13162.1 | 8546.0 |
| 57.5° | 672.6 | 735.0 | 846.2 | 1217.7 | 2419.2 | 5256.1 | 7322.9 | 8068.7 | 9462.7 | 9658.0 | 5823.0 |
| 60° | 431.2 | 439.3 | 474.7 | 558.7 | 908.6 | 2026.0 | 3474.2 | 4068.2 | 4700.2 | 4852.0 | 2717.6 |
| 62.5° | 333.6 | 336.3 | 352.6 | 366.1 | 431.2 | 786.5 | 1304.6 | 1546.0 | 1605.6 | 1380.5 | 713.3 |
| 65° | 279.4 | 282.0 | 287.5 | 287.5 | 306.5 | 368.9 | 455.6 | 501.7 | 488.2 | 482.8 | 404.1 |
| 67.5° | 214.2 | 219.7 | 230.5 | 230.5 | 241.4 | 225.1 | 252.2 | 268.5 | 303.7 | 368.9 | 344.4 |
| 70° | 168.2 | 170.9 | 179.0 | 184.4 | 184.4 | 162.7 | 181.7 | 198.0 | 222.4 | 273.9 | 271.2 |
| 72.5° | 130.2 | 135.6 | 141.0 | 141.0 | 132.9 | 111.2 | 130.2 | 143.8 | 160.0 | 189.9 | 184.4 |
| 75° | 100.4 | 100.4 | 103.0 | 84.1 | 65.1 | 56.9 | 78.7 | 94.9 | 119.3 | 124.7 | 103.0 |
| 77.5° | 27.1 | 29.8 | 27.1 | 24.4 | 27.1 | 40.7 | 51.5 | 59.7 | 76.0 | 76.0 | 67.8 |
| 80° | 0.0 | 2.7 | 8.1 | 16.3 | 27.1 | 38.0 | 46.1 | 51.5 | 59.7 | 65.1 | 62.4 |
| 82.5° | 0.0 | 2.7 | 8.1 | 16.3 | 24.4 | 29.8 | 40.7 | 43.4 | 48.8 | 56.9 | 56.9 |
| 85° | 0.0 | 2.7 | 5.4 | 10.9 | 16.3 | 18.9 | 18.9 | 16.3 | 16.3 | 13.5 | 10.9 |
| 87.5° | 0.0 | 0.0 | 2.7 | 5.4 | 5.4 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 |
| 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° | 5372.8 | 5372.8 | 5372.8 | 5372.8 | 5372.8 | 5372.8 | 5372.8 | 5372.8 | 5372.8 | 5372.8 | 5372.8 |
| 2.5° | 5399.9 | 5315.8 | 5188.3 | 4987.6 | 4795.1 | 4670.4 | 4551.0 | 4418.1 | 4344.9 | 4339.5 | 4298.7 |
| 5° | 5465.0 | 5275.1 | 4971.3 | 4626.9 | 4258.1 | 3940.8 | 3620.7 | 3411.9 | 3224.8 | 3121.7 | 3102.7 |
| 7.5° | 5500.3 | 5253.5 | 4762.5 | 4184.8 | 3555.6 | 3037.6 | 2679.6 | 2416.5 | 2313.5 | 2237.5 | 2234.8 |
| 10° | 5573.5 | 5215.5 | 4450.7 | 3599.1 | 2820.6 | 2297.2 | 2050.4 | 1931.0 | 1874.1 | 1852.4 | 1819.8 |
| 12.5° | 5627.7 | 5144.9 | 4130.6 | 2996.9 | 2229.4 | 1903.9 | 1795.4 | 1768.3 | 1771.1 | 1781.9 | 1768.3 |
| 15° | 5703.7 | 5082.6 | 3699.4 | 2460.0 | 1871.4 | 1714.1 | 1714.1 | 1719.5 | 1757.4 | 1762.9 | 1760.2 |
| 17.5° | 5698.2 | 4960.5 | 3254.6 | 2026.0 | 1654.4 | 1632.7 | 1640.9 | 1692.4 | 1716.8 | 1724.9 | 1705.9 |
| 20° | 5763.3 | 4846.6 | 2796.2 | 1730.4 | 1532.3 | 1564.9 | 1619.2 | 1632.7 | 1662.5 | 1667.9 | 1646.3 |
| 22.5° | 5744.3 | 4561.8 | 2370.5 | 1497.1 | 1440.2 | 1502.5 | 1556.8 | 1573.0 | 1564.9 | 1548.6 | 1546.0 |
| 25° | 5709.1 | 4317.8 | 1979.9 | 1342.5 | 1372.4 | 1440.2 | 1491.7 | 1461.9 | 1445.6 | 1448.3 | 1451.0 |
| 27.5° | 5646.7 | 4008.6 | 1657.1 | 1234.0 | 1280.1 | 1380.5 | 1377.8 | 1367.0 | 1383.2 | 1369.6 | 1383.2 |
| 30° | 5635.9 | 3699.4 | 1391.3 | 1136.4 | 1212.3 | 1285.5 | 1291.0 | 1310.0 | 1329.0 | 1304.6 | 1329.0 |
| 32.5° | 5652.2 | 3360.3 | 1201.5 | 1076.7 | 1171.7 | 1174.3 | 1234.0 | 1253.0 | 1239.5 | 1185.2 | 1190.6 |
| 35° | 5776.9 | 3100.0 | 1063.2 | 1044.2 | 1106.5 | 1109.3 | 1166.2 | 1141.8 | 1082.2 | 1049.6 | 1068.6 |
| 37.5° | 6040.0 | 2883.0 | 998.1 | 1014.4 | 1019.8 | 1055.0 | 1057.8 | 1008.9 | 1014.4 | 1011.6 | 1022.5 |
| 40° | 6376.3 | 2717.6 | 952.0 | 987.2 | 981.8 | 1006.2 | 908.6 | 935.7 | 960.1 | 968.3 | 973.7 |
| 42.5° | 6606.8 | 2598.2 | 922.1 | 943.8 | 932.9 | 889.6 | 835.3 | 862.5 | 881.4 | 911.3 | 916.7 |
| 45° | 6709.8 | 2503.3 | 886.9 | 867.9 | 867.9 | 789.3 | 767.6 | 773.0 | 816.4 | 848.9 | 843.4 |
| 47.5° | 6541.7 | 2411.1 | 824.5 | 767.6 | 786.5 | 721.5 | 697.0 | 697.0 | 743.1 | 783.8 | 775.6 |
| 48° | 6476.6 | 2373.1 | 827.2 | 745.8 | 759.4 | 710.6 | 686.1 | 680.7 | 732.3 | 770.2 | 770.2 |
| 50° | 6153.9 | 2232.1 | 756.7 | 686.1 | 659.1 | 653.6 | 637.4 | 642.8 | 675.3 | 710.6 | 710.6 |
| 52.5° | 5524.7 | 1928.4 | 640.1 | 588.5 | 539.7 | 572.3 | 580.4 | 569.6 | 585.8 | 618.3 | 615.7 |
| 55° | 4610.7 | 1480.8 | 512.6 | 488.2 | 450.2 | 485.5 | 501.7 | 488.2 | 471.9 | 496.3 | 496.3 |
| 57.5° | 2953.6 | 797.4 | 409.5 | 415.0 | 377.0 | 412.2 | 425.8 | 393.3 | 363.4 | 382.4 | 379.7 |
| 60° | 1331.6 | 477.3 | 336.3 | 328.2 | 303.7 | 344.4 | 366.1 | 328.2 | 287.5 | 301.1 | 314.6 |
| 62.5° | 499.0 | 339.0 | 254.9 | 249.5 | 244.1 | 282.0 | 292.9 | 263.1 | 222.4 | 230.5 | 233.3 |
| 65° | 366.1 | 298.3 | 203.4 | 184.4 | 195.3 | 222.4 | 217.0 | 187.1 | 160.0 | 160.0 | 165.4 |
| 67.5° | 311.9 | 260.3 | 165.4 | 143.8 | 143.8 | 146.4 | 135.6 | 119.3 | 111.2 | 116.6 | 122.1 |
| 70° | 244.1 | 206.1 | 130.2 | 111.2 | 100.4 | 89.5 | 78.7 | 76.0 | 67.8 | 76.0 | 73.2 |
| 72.5° | 157.3 | 138.4 | 100.4 | 84.1 | 76.0 | 62.4 | 51.5 | 48.8 | 40.7 | 38.0 | 38.0 |
| 75° | 84.1 | 84.1 | 78.7 | 67.8 | 59.7 | 48.8 | 40.7 | 32.6 | 21.7 | 16.3 | 16.3 |
| 77.5° | 59.7 | 65.1 | 70.5 | 65.1 | 54.3 | 40.7 | 32.6 | 21.7 | 10.9 | 5.4 | 5.4 |
| 80° | 56.9 | 65.1 | 70.5 | 62.4 | 54.3 | 40.7 | 29.8 | 16.3 | 8.1 | 2.7 | 2.7 |
| 82.5° | 51.5 | 59.7 | 65.1 | 56.9 | 48.8 | 35.2 | 27.1 | 16.3 | 8.1 | 2.7 | 2.7 |
| 85° | 10.9 | 13.5 | 16.3 | 16.3 | 18.9 | 24.4 | 18.9 | 13.5 | 5.4 | 2.7 | 2.7 |
| 87.5° | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 5.4 | 5.4 | 2.7 | 2.7 | 2.7 |
| 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)