

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: P530741

Luminaire Tested: **GLAN-SA6A-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6A-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13793 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

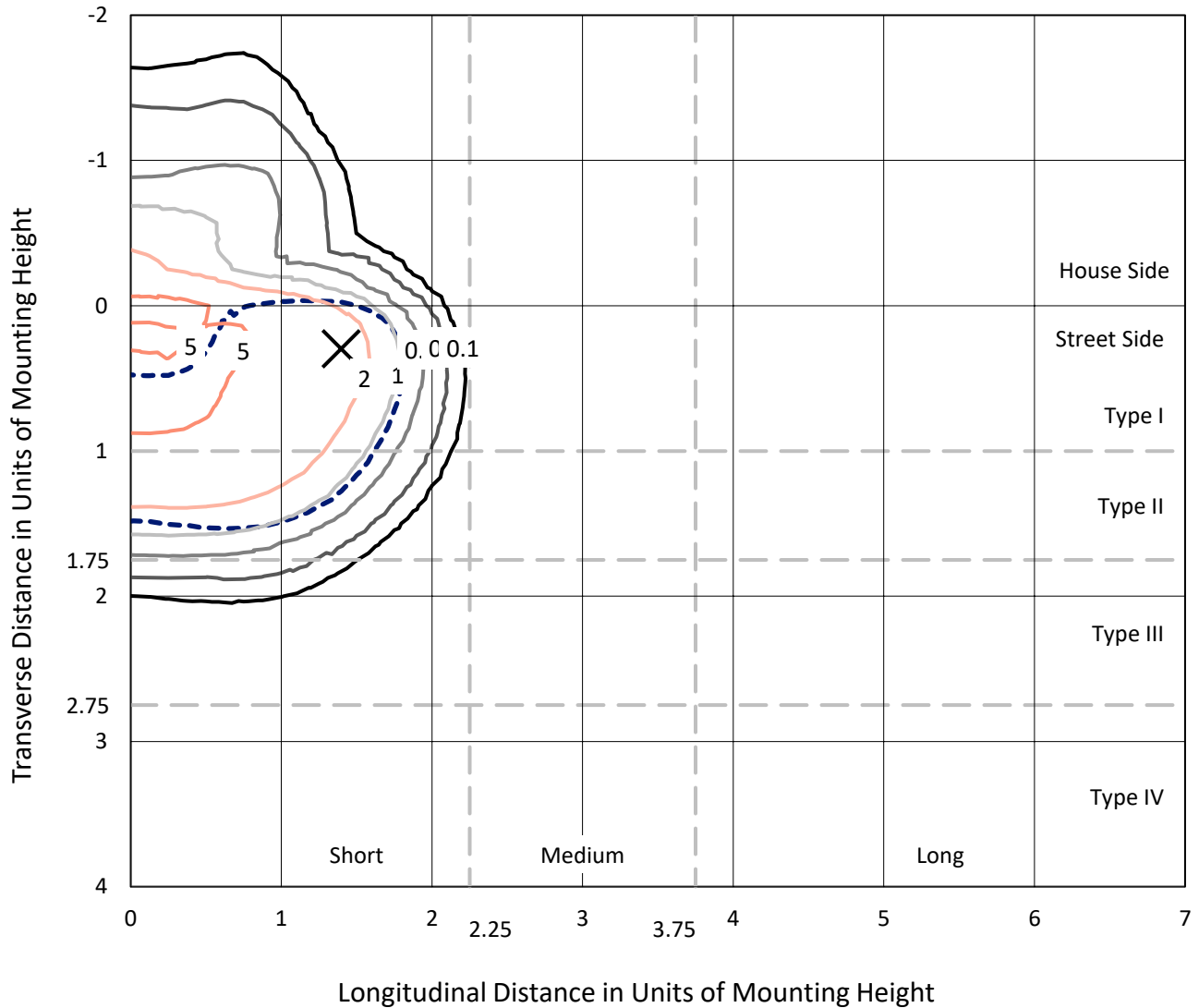
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

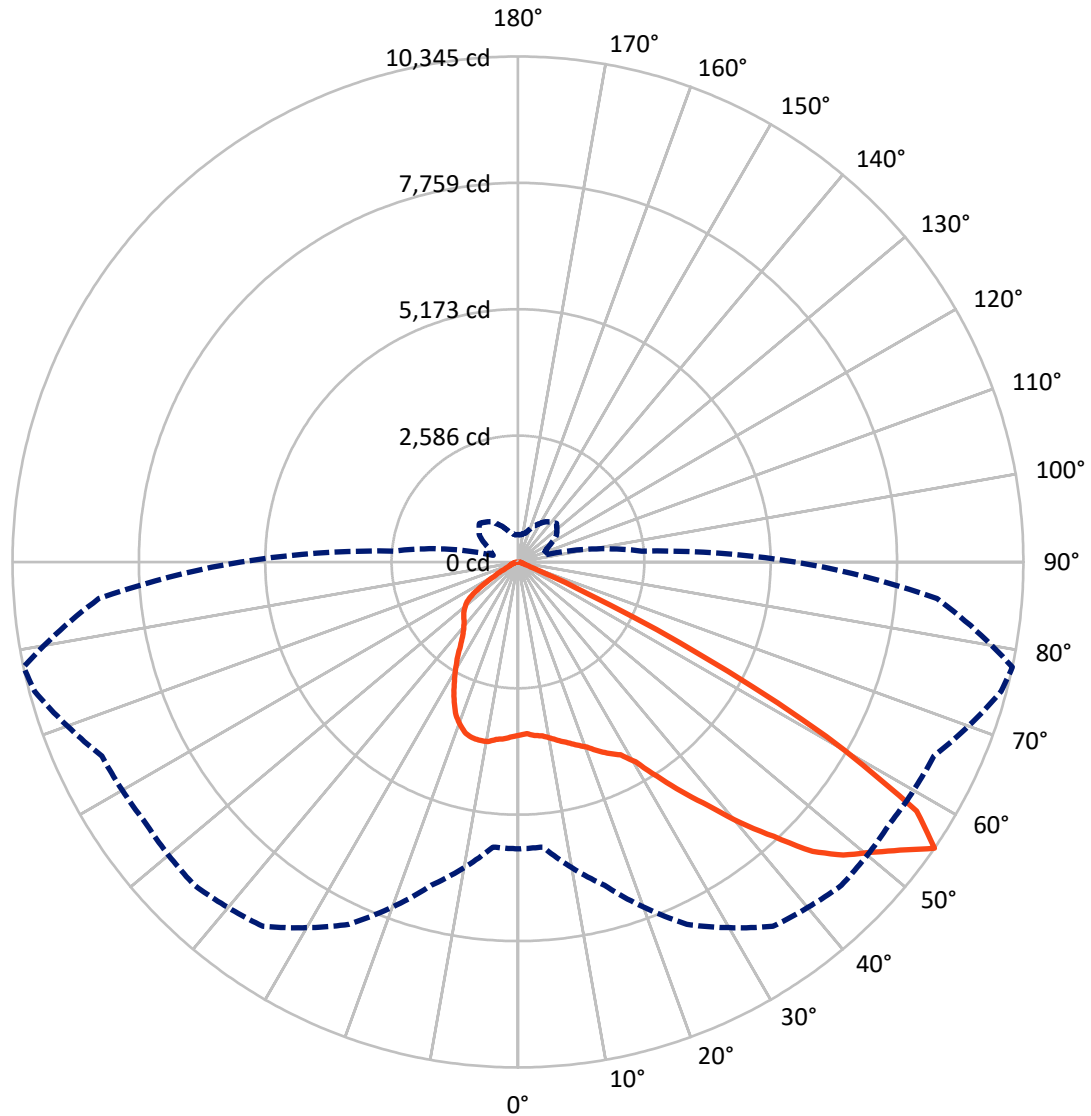
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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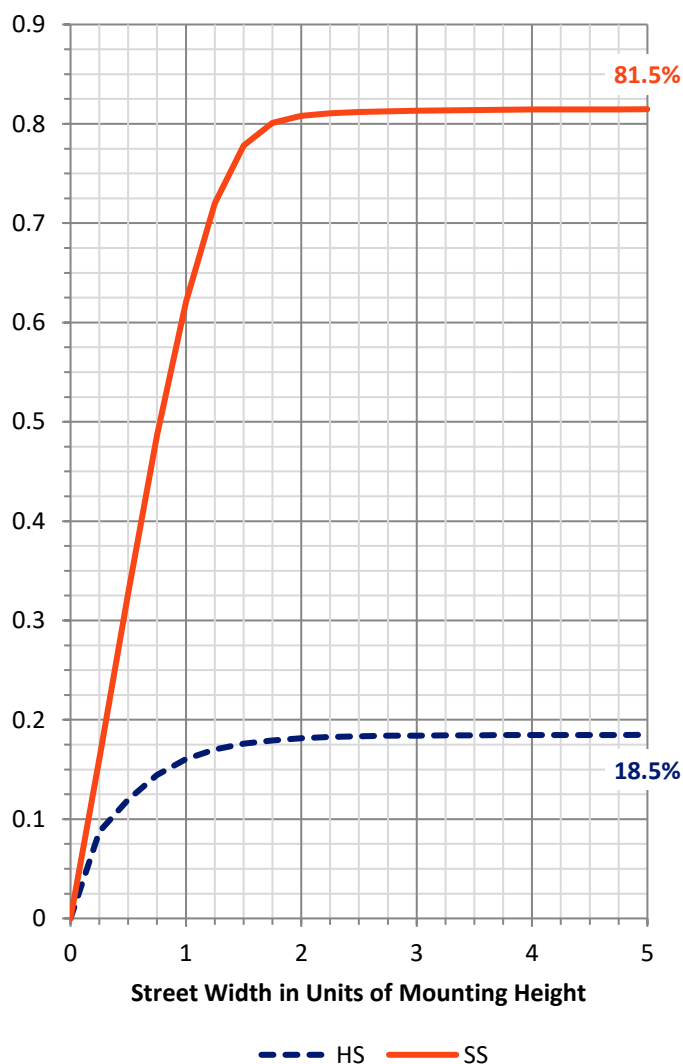
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2561.9 | 0.0 | 2561.9 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 11231.1 | 0.0 | 11231.1 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 13793.0 | 0.0 | 13793.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 316.2 | 2.3 |
| 10°-20° | 836.8 | 6.1 |
| 20°-30° | 1466.8 | 10.6 |
| 30°-40° | 2418.6 | 17.5 |
| 40°-50° | 3519.4 | 25.5 |
| 50°-60° | 3987.9 | 28.9 |
| 60°-70° | 1140.2 | 8.3 |
| 70°-80° | 88.5 | 0.6 |
| 80°-90° | 18.4 | 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° | 13793.0 | 100.0 |
| 0°-180° | 13793.0 | 100.0 |

Coefficient of Utilization



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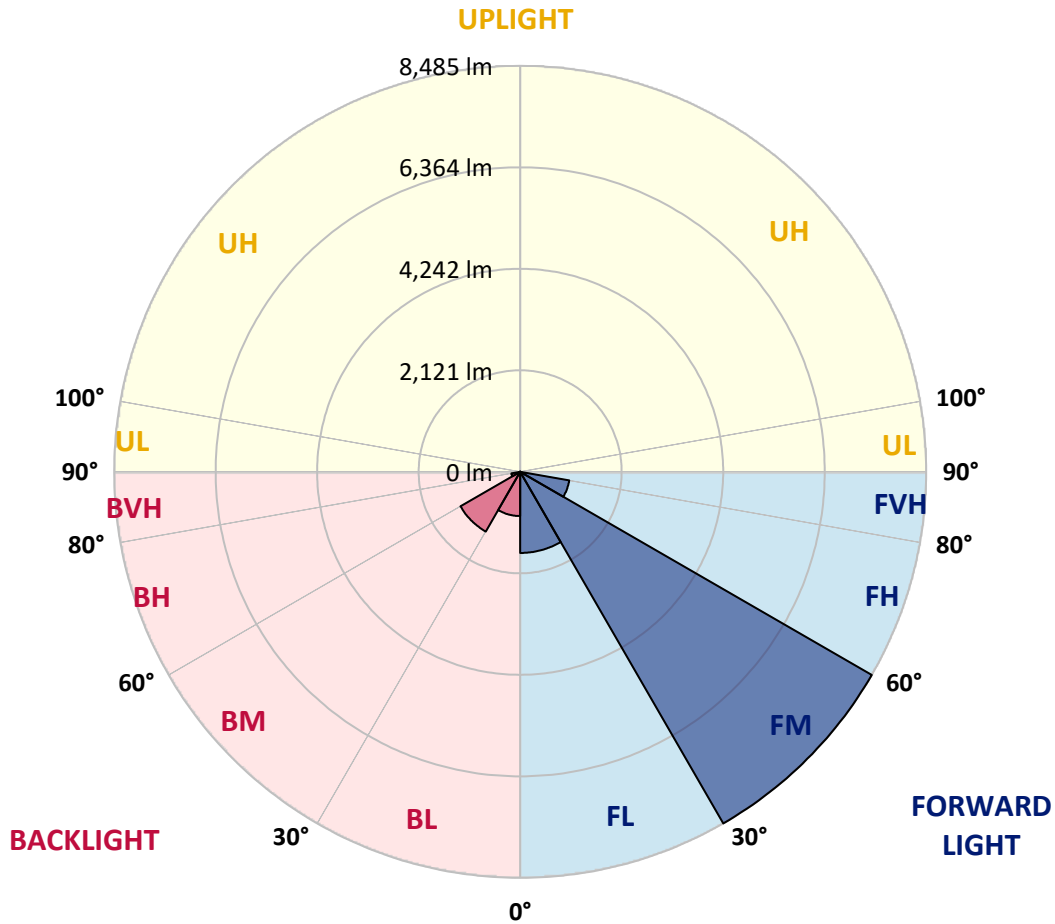
CATALOG NUMBER: GLAN-SA6A-727-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1695.6 | 12.3 | | | |
| FM (30°-60°) | 8484.8 | 61.5 | | | |
| FH (60°-80°) | 1041.7 | 7.6 | | | G1/1800 |
| FVH (80°-90°) | 9.0 | 0.1 | | | G0/10 |
| BL (0°-30°) | 924.3 | 6.7 | B2/1000 | | |
| BM (30°-60°) | 1441.1 | 10.4 | B2/2500 | | |
| BH (60°-80°) | 187.0 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 9.4 | 0.1 | | | G0/10 |
| 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° | 55° | 65° | 75° | 78° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0° | 3546.2 | 3546.2 | 3546.2 | 3546.2 | 3546.2 | 3546.2 | 3546.2 | 3546.2 | 3546.2 | 3546.2 | 3546.2 |
| 2.5° | 3334.1 | 3366.2 | 3371.1 | 3410.6 | 3408.1 | 3474.7 | 3494.4 | 3496.9 | 3541.3 | 3519.1 | 3575.8 |
| 5° | 3240.4 | 3223.1 | 3215.7 | 3284.8 | 3304.5 | 3363.7 | 3413.0 | 3442.6 | 3533.9 | 3565.9 | 3625.1 |
| 7.5° | 3156.6 | 3156.6 | 3161.5 | 3223.1 | 3215.7 | 3292.2 | 3344.0 | 3435.2 | 3568.4 | 3595.5 | 3667.0 |
| 10° | 3075.2 | 3045.6 | 3082.6 | 3146.7 | 3200.9 | 3235.5 | 3344.0 | 3430.3 | 3585.6 | 3664.6 | 3763.2 |
| 12.5° | 3033.2 | 3048.0 | 3053.0 | 3099.8 | 3159.0 | 3262.6 | 3321.8 | 3464.8 | 3708.9 | 3755.8 | 3861.8 |
| 15° | 3297.1 | 3267.5 | 3196.0 | 3154.1 | 3203.4 | 3252.7 | 3400.7 | 3546.2 | 3773.1 | 3839.6 | 3958.0 |
| 17.5° | 3602.9 | 3578.2 | 3519.1 | 3405.6 | 3294.7 | 3385.9 | 3501.8 | 3635.0 | 3842.1 | 3940.8 | 4115.8 |
| 20° | 4002.4 | 3963.0 | 3903.8 | 3681.8 | 3585.6 | 3487.0 | 3610.3 | 3768.1 | 3955.6 | 4044.3 | 4224.4 |
| 22.5° | 4478.4 | 4478.4 | 4345.2 | 4076.4 | 3876.6 | 3782.9 | 3834.7 | 3926.0 | 4081.3 | 4202.2 | 4379.7 |
| 25° | 4974.0 | 4959.2 | 4838.4 | 4559.7 | 4221.9 | 4110.9 | 4170.1 | 4234.2 | 4276.1 | 4342.7 | 4461.1 |
| 27.5° | 5541.2 | 5454.9 | 5302.0 | 4993.8 | 4695.4 | 4480.8 | 4544.9 | 4488.2 | 4436.4 | 4471.0 | 4641.1 |
| 30° | 5925.9 | 5980.2 | 5785.4 | 5489.4 | 5208.3 | 4969.1 | 4981.4 | 4932.1 | 4695.4 | 4744.7 | 4845.8 |
| 32.5° | 6325.4 | 6360.0 | 6251.5 | 6088.7 | 5807.6 | 5528.9 | 5427.8 | 5385.9 | 5208.3 | 5230.5 | 5131.9 |
| 35° | 6658.4 | 6724.9 | 6628.8 | 6557.2 | 6475.9 | 6251.5 | 5972.8 | 6108.4 | 5822.4 | 5768.1 | 5511.6 |
| 37.5° | 6964.1 | 6944.4 | 7057.9 | 6983.9 | 6966.6 | 6808.8 | 6503.0 | 6530.1 | 6337.8 | 6325.4 | 6029.5 |
| 40° | 7237.9 | 7242.8 | 7398.2 | 7432.7 | 7363.6 | 7082.5 | 6638.6 | 6853.2 | 7008.5 | 7023.3 | 6643.6 |
| 42.5° | 7464.8 | 7531.3 | 7664.5 | 7943.2 | 7839.6 | 7371.0 | 6779.2 | 7013.5 | 7590.5 | 7681.8 | 7225.5 |
| 45° | 7662.0 | 7797.7 | 7962.9 | 8212.0 | 8152.8 | 7780.4 | 7129.4 | 7343.9 | 8212.0 | 8451.2 | 7773.0 |
| 47.5° | 7674.4 | 7851.9 | 8031.9 | 8401.9 | 8475.8 | 7999.9 | 7491.9 | 7866.7 | 8705.2 | 8964.1 | 8172.5 |
| 50° | 7625.0 | 7718.8 | 8078.8 | 8480.8 | 8648.5 | 8357.5 | 7999.9 | 8305.7 | 9183.6 | 9346.4 | 8374.7 |
| 52.5° | 7040.6 | 7112.1 | 7834.7 | 8554.7 | 8959.2 | 8761.9 | 8673.1 | 8917.3 | 9671.9 | 9792.7 | 8564.6 |
| 55° | 5869.2 | 5856.9 | 6850.7 | 8182.4 | 9102.2 | 9361.1 | 9306.9 | 9393.2 | 10236.6 | 10345.1 | 8611.5 |
| 57.5° | 4014.7 | 4239.2 | 5097.3 | 6813.7 | 8226.8 | 9220.6 | 9277.3 | 9134.3 | 9578.2 | 9620.1 | 7506.7 |
| 60° | 2165.2 | 2258.9 | 2949.4 | 4547.4 | 6263.8 | 7514.1 | 7662.0 | 7403.1 | 7368.6 | 7250.2 | 5358.7 |
| 62.5° | 860.7 | 907.5 | 1299.6 | 2251.5 | 3413.0 | 4567.1 | 4885.3 | 4779.2 | 4552.3 | 4241.6 | 2774.3 |
| 65° | 409.4 | 439.0 | 646.1 | 1053.0 | 1514.2 | 1903.8 | 2221.9 | 2320.6 | 1711.4 | 1541.3 | 914.9 |
| 67.5° | 278.7 | 300.9 | 471.0 | 601.7 | 540.1 | 564.7 | 734.9 | 683.1 | 402.0 | 342.8 | 254.0 |
| 70° | 212.1 | 226.9 | 377.3 | 409.4 | 241.7 | 170.2 | 189.9 | 177.6 | 165.2 | 167.7 | 165.2 |
| 72.5° | 150.4 | 162.8 | 276.2 | 241.7 | 106.0 | 78.9 | 101.1 | 120.8 | 120.8 | 120.8 | 118.4 |
| 75° | 91.2 | 103.6 | 160.3 | 93.7 | 41.9 | 41.9 | 64.1 | 81.4 | 86.3 | 88.8 | 83.8 |
| 77.5° | 46.9 | 59.2 | 54.3 | 27.1 | 27.1 | 32.1 | 46.9 | 56.7 | 61.7 | 61.7 | 59.2 |
| 80° | 9.9 | 9.9 | 9.9 | 14.8 | 27.1 | 34.5 | 46.9 | 51.8 | 59.2 | 59.2 | 54.3 |
| 82.5° | 0.0 | 2.5 | 7.4 | 14.8 | 24.7 | 32.1 | 44.4 | 51.8 | 59.2 | 61.7 | 56.7 |
| 85° | 0.0 | 2.5 | 4.9 | 9.9 | 17.3 | 19.7 | 17.3 | 14.8 | 14.8 | 14.8 | 14.8 |
| 87.5° | 0.0 | 0.0 | 2.5 | 2.5 | 2.5 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| 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° | 3546.2 | 3546.2 | 3546.2 | 3546.2 | 3546.2 | 3546.2 | 3546.2 | 3546.2 | 3546.2 | 3546.2 | 3546.2 |
| 2.5° | 3580.7 | 3588.1 | 3575.8 | 3573.3 | 3563.5 | 3593.0 | 3521.5 | 3504.3 | 3548.7 | 3506.7 | 3516.6 |
| 5° | 3627.6 | 3644.8 | 3622.6 | 3585.6 | 3531.4 | 3447.5 | 3376.0 | 3282.3 | 3237.9 | 3205.9 | 3200.9 |
| 7.5° | 3662.1 | 3674.4 | 3652.2 | 3533.9 | 3371.1 | 3159.0 | 3001.2 | 2885.3 | 2794.0 | 2766.9 | 2722.5 |
| 10° | 3802.7 | 3805.1 | 3694.2 | 3432.7 | 3114.6 | 2836.0 | 2594.3 | 2416.7 | 2325.5 | 2268.8 | 2244.1 |
| 12.5° | 3896.4 | 3891.4 | 3667.0 | 3233.0 | 2808.8 | 2438.9 | 2162.7 | 1948.2 | 1864.3 | 1837.2 | 1819.9 |
| 15° | 4014.7 | 3987.6 | 3602.9 | 3028.3 | 2414.3 | 2014.8 | 1765.7 | 1617.7 | 1610.3 | 1593.1 | 1610.3 |
| 17.5° | 4108.4 | 4032.0 | 3509.2 | 2655.9 | 2037.0 | 1659.7 | 1496.9 | 1506.8 | 1526.5 | 1543.8 | 1546.2 |
| 20° | 4261.3 | 4103.5 | 3294.7 | 2330.4 | 1686.8 | 1422.9 | 1420.4 | 1464.8 | 1514.2 | 1533.9 | 1553.6 |
| 22.5° | 4377.2 | 4133.1 | 3065.3 | 1982.7 | 1400.7 | 1326.7 | 1368.7 | 1435.2 | 1472.2 | 1492.0 | 1521.6 |
| 25° | 4419.2 | 4051.7 | 2759.5 | 1635.0 | 1262.6 | 1282.3 | 1346.5 | 1390.9 | 1437.7 | 1459.9 | 1447.6 |
| 27.5° | 4461.1 | 4009.8 | 2394.5 | 1346.5 | 1188.6 | 1252.8 | 1307.0 | 1351.4 | 1366.2 | 1395.8 | 1415.5 |
| 30° | 4562.2 | 3864.3 | 2066.6 | 1164.0 | 1151.6 | 1233.0 | 1272.5 | 1287.3 | 1326.7 | 1344.0 | 1344.0 |
| 32.5° | 4643.6 | 3807.6 | 1718.8 | 1077.7 | 1146.7 | 1242.9 | 1247.8 | 1247.8 | 1252.8 | 1240.4 | 1235.5 |
| 35° | 4811.3 | 3612.8 | 1408.1 | 1025.9 | 1144.2 | 1245.4 | 1257.7 | 1215.8 | 1102.3 | 1057.9 | 1045.6 |
| 37.5° | 5018.4 | 3487.0 | 1178.8 | 1013.5 | 1161.5 | 1275.0 | 1294.7 | 1136.9 | 988.9 | 917.4 | 905.0 |
| 40° | 5270.0 | 3398.2 | 1028.3 | 1008.6 | 1201.0 | 1344.0 | 1284.8 | 1075.2 | 882.8 | 779.3 | 774.3 |
| 42.5° | 5563.4 | 3316.8 | 927.2 | 1006.2 | 1250.3 | 1415.5 | 1275.0 | 1023.4 | 774.3 | 705.3 | 715.2 |
| 45° | 5797.7 | 3272.5 | 858.2 | 988.9 | 1267.6 | 1457.4 | 1282.3 | 932.2 | 730.0 | 685.6 | 690.5 |
| 47.5° | 5980.2 | 3178.7 | 801.5 | 959.3 | 1265.1 | 1472.2 | 1215.8 | 895.2 | 707.8 | 720.1 | 732.4 |
| 50° | 5985.1 | 3053.0 | 730.0 | 895.2 | 1228.1 | 1445.1 | 1139.3 | 860.7 | 702.8 | 754.6 | 779.3 |
| 52.5° | 5918.5 | 2875.4 | 653.5 | 803.9 | 1141.8 | 1351.4 | 1070.3 | 845.9 | 680.6 | 675.7 | 705.3 |
| 55° | 5681.8 | 2542.5 | 525.3 | 651.0 | 964.2 | 1114.7 | 1008.6 | 818.7 | 614.0 | 557.3 | 562.3 |
| 57.5° | 4591.8 | 1822.4 | 387.2 | 466.1 | 683.1 | 816.3 | 910.0 | 806.4 | 552.4 | 473.5 | 475.9 |
| 60° | 2843.4 | 1033.3 | 283.6 | 318.1 | 421.7 | 495.7 | 737.4 | 749.7 | 493.2 | 399.5 | 394.6 |
| 62.5° | 1459.9 | 510.5 | 219.5 | 224.4 | 258.9 | 291.0 | 505.5 | 628.8 | 446.4 | 379.8 | 379.8 |
| 65° | 488.3 | 251.5 | 192.4 | 172.6 | 172.6 | 180.0 | 305.8 | 436.5 | 377.3 | 318.1 | 318.1 |
| 67.5° | 209.6 | 187.4 | 167.7 | 150.4 | 138.1 | 130.7 | 172.6 | 254.0 | 281.1 | 241.7 | 231.8 |
| 70° | 162.8 | 157.8 | 145.5 | 125.8 | 108.5 | 98.6 | 101.1 | 130.7 | 160.3 | 155.4 | 150.4 |
| 72.5° | 120.8 | 120.8 | 115.9 | 98.6 | 83.8 | 71.5 | 66.6 | 69.0 | 76.4 | 78.9 | 81.4 |
| 75° | 83.8 | 86.3 | 86.3 | 76.4 | 61.7 | 51.8 | 44.4 | 37.0 | 29.6 | 24.7 | 22.2 |
| 77.5° | 56.7 | 59.2 | 64.1 | 56.7 | 46.9 | 34.5 | 27.1 | 19.7 | 12.3 | 4.9 | 4.9 |
| 80° | 49.3 | 56.7 | 61.7 | 56.7 | 49.3 | 37.0 | 27.1 | 14.8 | 7.4 | 0.0 | 0.0 |
| 82.5° | 51.8 | 56.7 | 64.1 | 54.3 | 46.9 | 34.5 | 27.1 | 17.3 | 7.4 | 2.5 | 0.0 |
| 85° | 12.3 | 12.3 | 14.8 | 17.3 | 22.2 | 24.7 | 19.7 | 12.3 | 7.4 | 2.5 | 0.0 |
| 87.5° | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 2.5 | 2.5 | 2.5 | 2.5 | 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)