

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: P456009

Luminaire Tested: **GLAN-SA7B-727-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7B-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26537 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

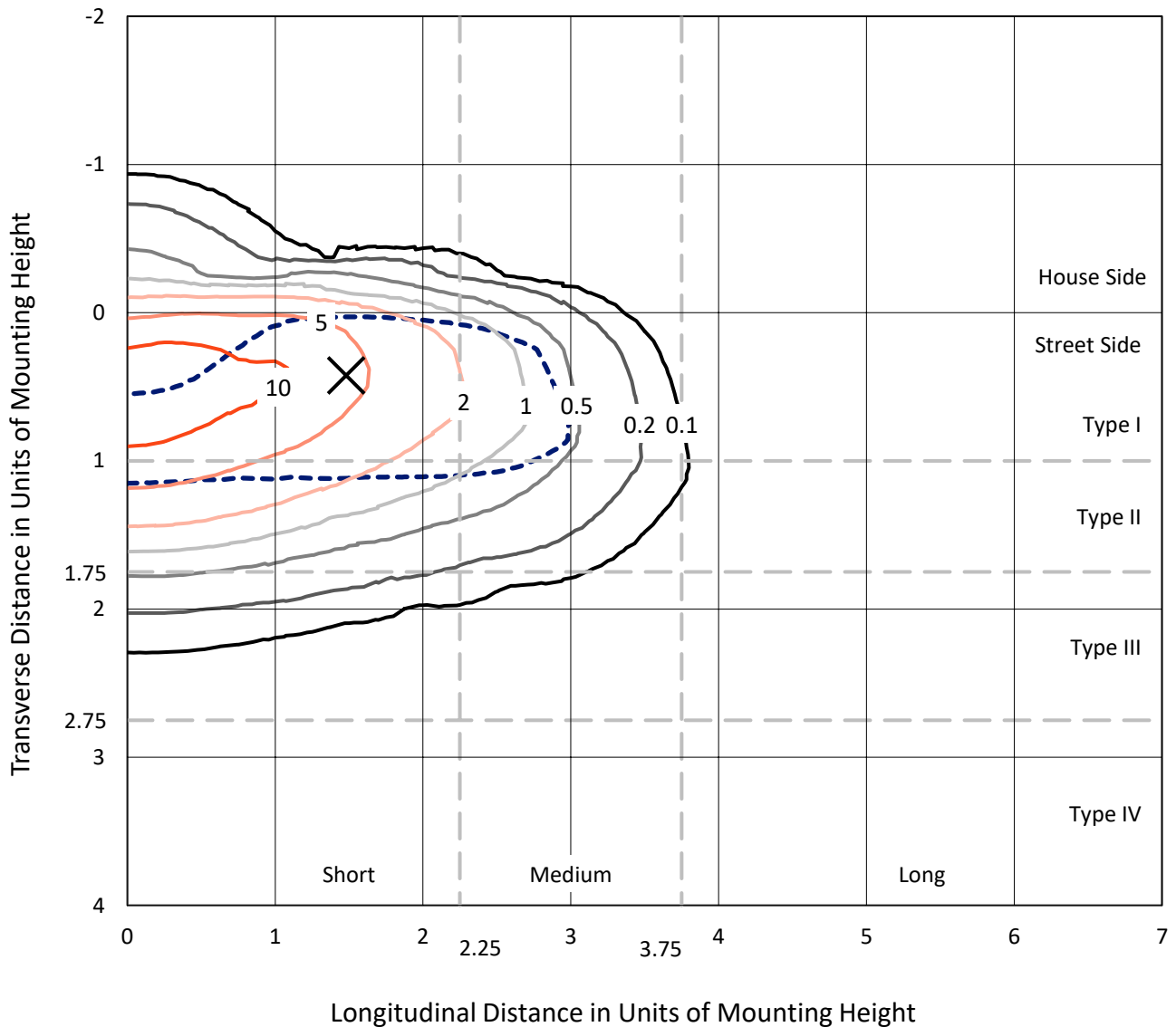
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

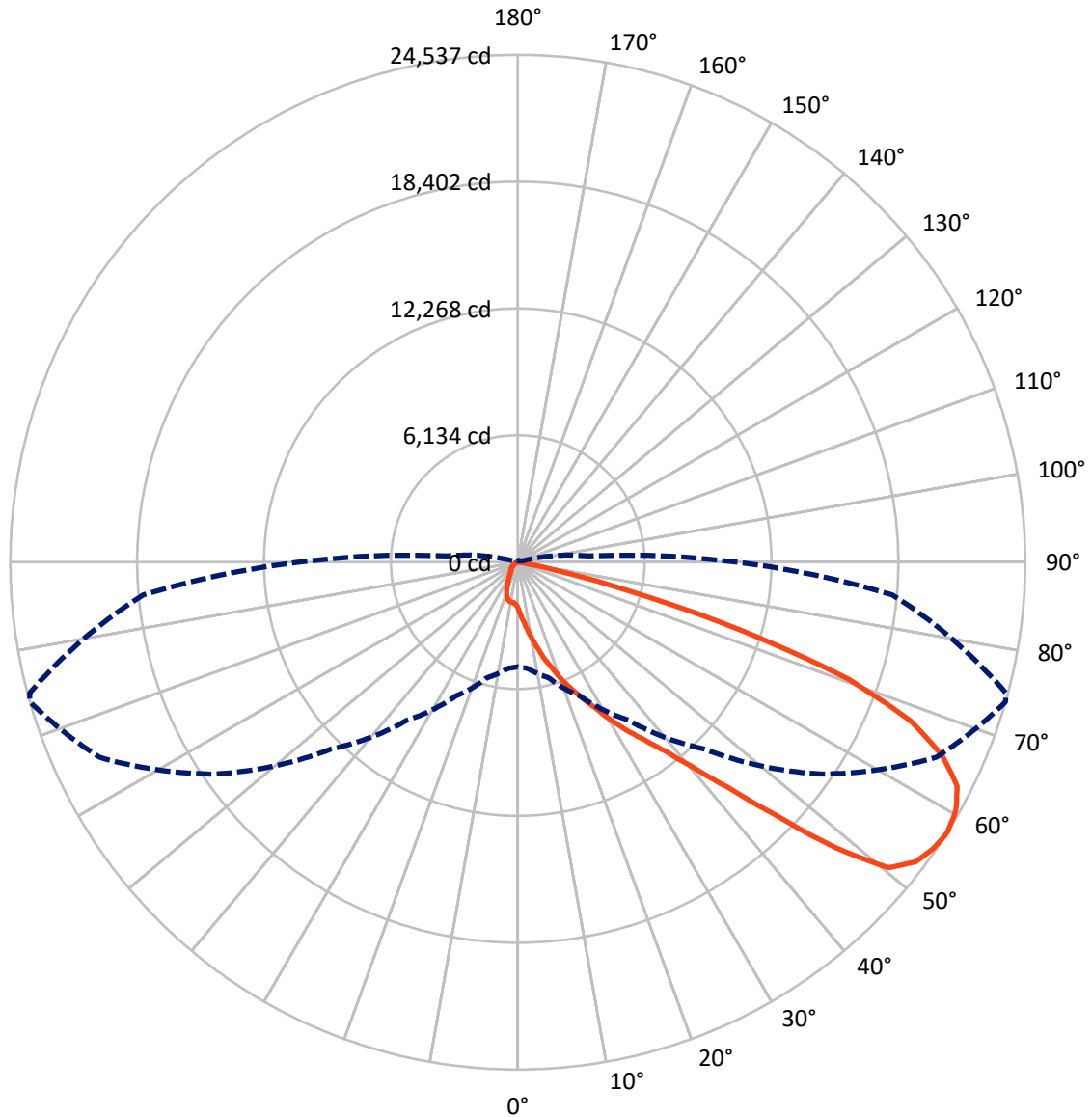
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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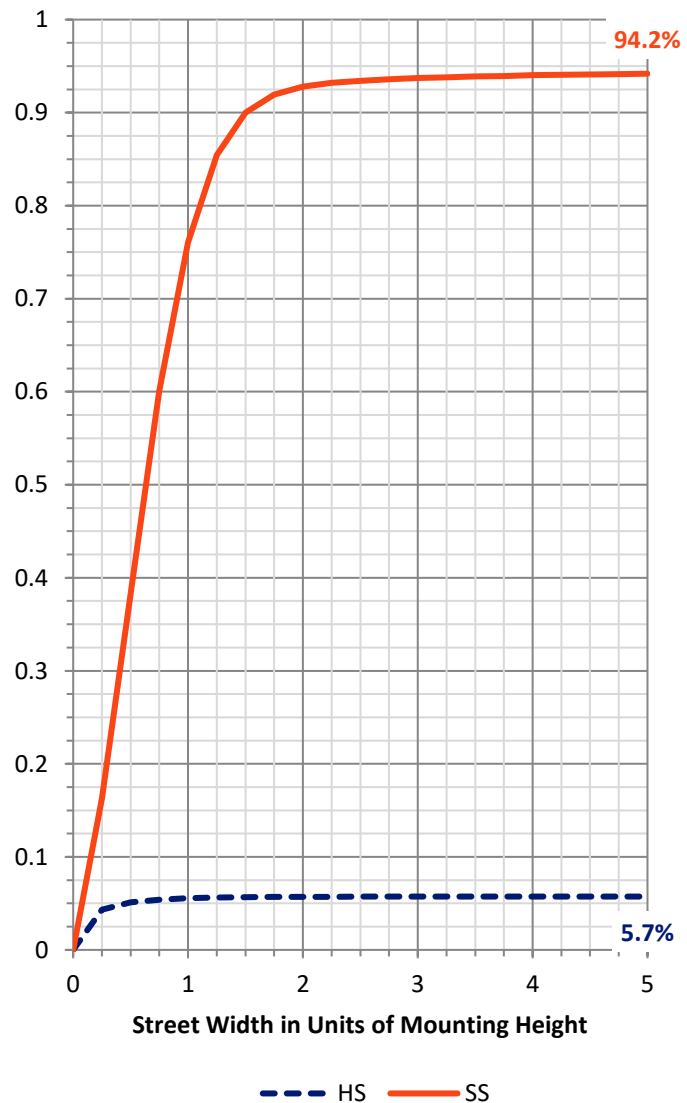
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1530.6 | 0.0 | 1530.6 |
| | % Fixture | 5.8 | 0.0 | 5.8 |
| Street Side | Lumens | 25006.4 | 0.0 | 25006.4 |
| | % Fixture | 94.2 | 0.0 | 94.2 |
| Total | Lumens | 26537.0 | 0.0 | 26537.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 268.2 | 1.0 |
| 10°-20° | 1057.3 | 4.0 |
| 20°-30° | 2262.5 | 8.5 |
| 30°-40° | 4158.4 | 15.7 |
| 40°-50° | 6374.9 | 24.0 |
| 50°-60° | 6743.8 | 25.4 |
| 60°-70° | 4403.9 | 16.6 |
| 70°-80° | 1203.3 | 4.5 |
| 80°-90° | 64.8 | 0.2 |
| 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° | 26537.0 | 100.0 |
| 0°-180° | 26537.0 | 100.0 |



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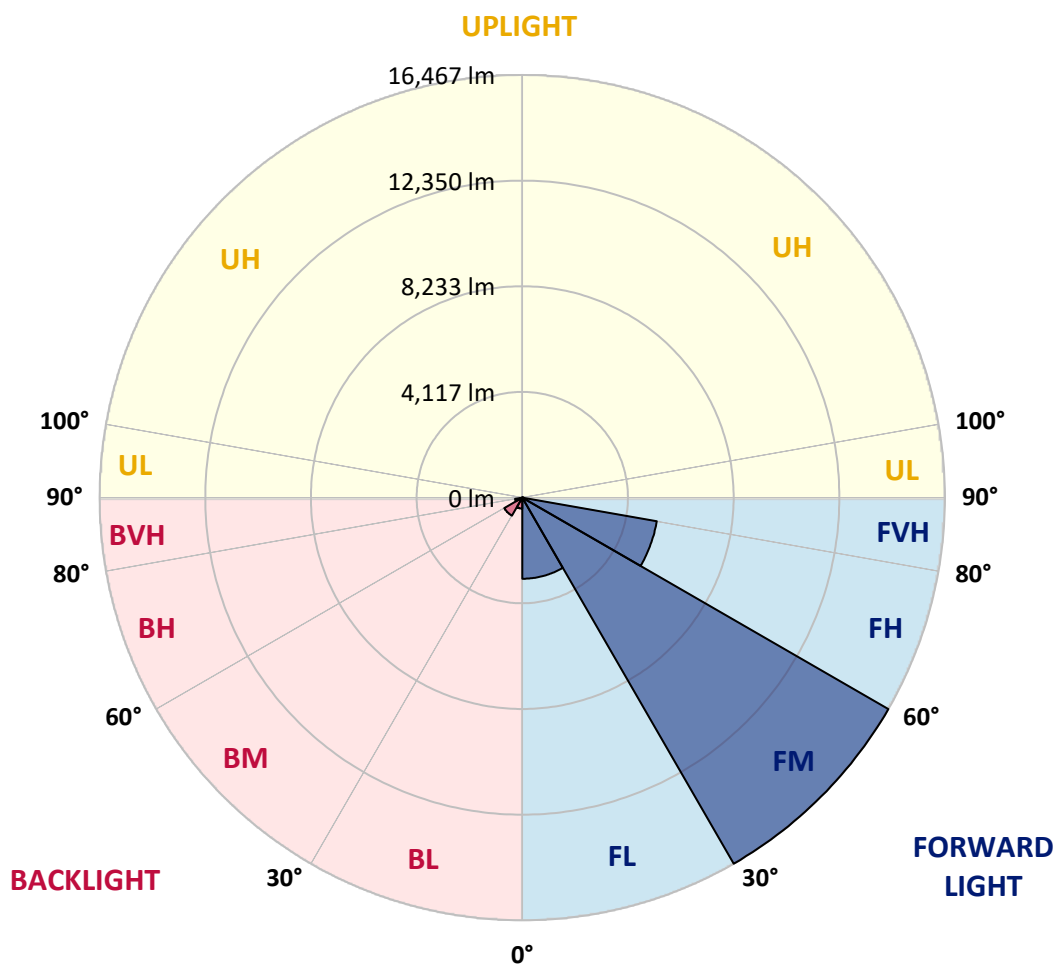
CATALOG NUMBER: GLAN-SA7B-727-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3160.5 | 11.9 | | | |
| FM (30°-60°) | 16466.7 | 62.1 | | | |
| FH (60°-80°) | 5319.8 | 20.0 | | | G3/7500 |
| FVH (80°-90°) | 59.4 | 0.2 | | | G1/100 |
| BL (0°-30°) | 427.5 | 1.6 | B1/500 | | |
| BM (30°-60°) | 810.3 | 3.1 | B1/1000 | | |
| BH (60°-80°) | 287.4 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.4 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 74° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2222.4 | 2222.4 | 2222.4 | 2222.4 | 2222.4 | 2222.4 | 2222.4 | 2222.4 | 2222.4 | 2222.4 | 2222.4 |
| 2.5° | 3252.1 | 3222.8 | 3164.2 | 3144.0 | 3057.9 | 2924.2 | 2806.9 | 2649.3 | 2524.7 | 2511.9 | 2361.7 |
| 5° | 4355.1 | 4289.1 | 4261.7 | 4129.7 | 3922.7 | 3728.5 | 3395.0 | 3142.2 | 2850.9 | 2828.9 | 2526.6 |
| 7.5° | 5417.8 | 5326.2 | 5298.7 | 5174.1 | 4932.2 | 4626.3 | 4193.9 | 3734.0 | 3272.3 | 3230.1 | 2748.3 |
| 10° | 6187.3 | 6200.1 | 6150.6 | 6068.2 | 5872.1 | 5560.7 | 5027.5 | 4399.1 | 3741.3 | 3688.2 | 2997.5 |
| 12.5° | 6738.8 | 6736.9 | 6746.1 | 6744.3 | 6639.8 | 6403.5 | 5842.8 | 5119.1 | 4258.0 | 4153.6 | 3283.3 |
| 15° | 7097.9 | 7103.4 | 7130.9 | 7226.1 | 7237.1 | 7090.6 | 6623.3 | 5808.0 | 4857.1 | 4727.0 | 3592.9 |
| 17.5° | 7460.7 | 7499.1 | 7543.1 | 7632.9 | 7713.5 | 7654.9 | 7325.1 | 6526.2 | 5399.4 | 5302.3 | 3924.5 |
| 20° | 8059.8 | 8112.9 | 8087.3 | 8142.2 | 8184.4 | 8189.9 | 7935.2 | 7189.5 | 6057.2 | 5894.1 | 4303.8 |
| 22.5° | 9018.0 | 9016.2 | 8950.2 | 8851.3 | 8768.8 | 8765.2 | 8534.3 | 7871.1 | 6654.5 | 6496.9 | 4684.9 |
| 25° | 10229.1 | 10234.6 | 10106.3 | 9824.2 | 9619.0 | 9368.0 | 9102.3 | 8468.4 | 7293.9 | 7099.7 | 5086.1 |
| 27.5° | 11617.9 | 11583.1 | 11388.9 | 11000.4 | 10593.7 | 10165.0 | 9782.0 | 9162.8 | 7971.8 | 7810.6 | 5546.0 |
| 30° | 12865.6 | 12852.8 | 12625.6 | 12151.0 | 11616.0 | 11185.5 | 10630.3 | 10033.0 | 8849.4 | 8651.6 | 6060.9 |
| 32.5° | 14027.2 | 14045.5 | 13730.4 | 13239.4 | 12722.7 | 12226.2 | 11639.9 | 10864.9 | 9710.6 | 9430.3 | 6621.5 |
| 35° | 14934.1 | 14952.5 | 14626.3 | 14217.7 | 13686.4 | 13274.2 | 12715.4 | 11751.6 | 10560.7 | 10324.4 | 7266.4 |
| 37.5° | 15417.8 | 15441.6 | 15252.9 | 14945.1 | 14613.5 | 14406.5 | 13886.1 | 12893.1 | 11594.1 | 11451.1 | 8028.6 |
| 40° | 15509.4 | 15536.9 | 15454.5 | 15372.0 | 15353.7 | 15502.1 | 15350.0 | 14237.9 | 13026.8 | 12803.3 | 9164.6 |
| 42.5° | 15234.6 | 15271.3 | 15307.9 | 15491.1 | 15864.9 | 16409.0 | 16938.5 | 16062.8 | 14871.8 | 14571.4 | 10553.4 |
| 45° | 14512.7 | 14509.1 | 14653.8 | 15128.3 | 15965.7 | 17127.3 | 18598.5 | 18347.5 | 17385.6 | 17028.3 | 12515.6 |
| 47.5° | 13277.8 | 13259.5 | 13572.8 | 14248.9 | 15553.4 | 17259.2 | 19952.5 | 21121.4 | 20593.7 | 20264.0 | 14624.5 |
| 50° | 11396.2 | 11486.0 | 11978.8 | 12922.4 | 14529.2 | 16859.8 | 20370.2 | 22940.8 | 23226.6 | 22876.6 | 16328.4 |
| 52.5° | 9192.1 | 9188.4 | 9961.6 | 11242.3 | 13012.2 | 15980.3 | 20078.9 | 23270.6 | 24082.2 | 23814.7 | 17167.6 |
| 55° | 6802.9 | 6850.5 | 7654.9 | 8946.6 | 11042.6 | 14375.3 | 19128.0 | 22931.6 | 24408.4 | 24219.6 | 17720.9 |
| 57° | 5060.5 | 5144.8 | 5789.7 | 7156.5 | 9327.6 | 12786.8 | 17862.0 | 22325.2 | 24536.6 | 24434.0 | 18180.8 |
| 57.5° | 4723.4 | 4727.0 | 5355.5 | 6597.7 | 8825.6 | 12176.7 | 17499.2 | 22072.3 | 24532.9 | 24476.1 | 18255.9 |
| 60° | 2907.7 | 2999.3 | 3433.5 | 4459.5 | 6460.3 | 9503.5 | 15067.9 | 20619.4 | 24342.4 | 24424.8 | 18576.5 |
| 62.5° | 1740.6 | 1779.1 | 2061.2 | 2687.8 | 4164.6 | 6936.6 | 12330.6 | 18759.7 | 23845.9 | 24096.9 | 18554.5 |
| 65° | 1119.5 | 1128.6 | 1256.9 | 1627.0 | 2603.5 | 4688.6 | 9501.7 | 16302.8 | 22561.5 | 23023.2 | 17829.0 |
| 67.5° | 864.8 | 879.4 | 930.7 | 1068.2 | 1509.7 | 2920.5 | 6720.5 | 13680.9 | 20483.8 | 21079.3 | 16070.1 |
| 70° | 767.7 | 775.0 | 793.3 | 837.3 | 998.5 | 1649.0 | 4181.0 | 10687.1 | 16986.2 | 17154.7 | 12576.1 |
| 72.5° | 626.6 | 646.8 | 703.6 | 718.2 | 791.5 | 1029.7 | 2326.9 | 7173.0 | 11412.7 | 11454.8 | 7035.6 |
| 75° | 485.5 | 489.2 | 573.5 | 615.6 | 666.9 | 709.1 | 1038.8 | 3616.7 | 5481.9 | 5188.7 | 2711.6 |
| 77.5° | 362.8 | 379.3 | 417.7 | 470.9 | 544.2 | 507.5 | 465.4 | 1363.1 | 1702.1 | 1671.0 | 787.8 |
| 80° | 232.7 | 241.8 | 291.3 | 353.6 | 423.2 | 331.6 | 262.0 | 399.4 | 373.8 | 384.8 | 188.7 |
| 82.5° | 117.3 | 119.1 | 186.9 | 287.7 | 269.3 | 166.7 | 164.9 | 163.1 | 139.2 | 137.4 | 87.9 |
| 85° | 12.8 | 27.5 | 120.9 | 164.9 | 120.9 | 55.0 | 77.0 | 75.1 | 73.3 | 75.1 | 51.3 |
| 87.5° | 1.8 | 1.8 | 20.2 | 23.8 | 16.5 | 18.3 | 22.0 | 23.8 | 29.3 | 27.5 | 22.0 |
| 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° | 2222.4 | 2222.4 | 2222.4 | 2222.4 | 2222.4 | 2222.4 | 2222.4 | 2222.4 | 2222.4 | 2222.4 | 2222.4 |
| 2.5° | 2288.4 | 2215.1 | 2079.5 | 1949.4 | 1852.3 | 1790.0 | 1709.4 | 1680.1 | 1638.0 | 1632.5 | 1612.3 |
| 5° | 2387.3 | 2248.1 | 2011.7 | 1824.9 | 1674.6 | 1561.0 | 1462.1 | 1379.6 | 1313.7 | 1299.0 | 1306.3 |
| 7.5° | 2528.4 | 2321.4 | 1991.6 | 1736.9 | 1528.0 | 1333.8 | 1176.3 | 1079.2 | 1009.5 | 983.9 | 987.5 |
| 10° | 2687.8 | 2418.5 | 1987.9 | 1643.5 | 1324.7 | 1086.5 | 914.3 | 828.1 | 787.8 | 773.2 | 756.7 |
| 12.5° | 2876.5 | 2530.2 | 1978.8 | 1498.7 | 1101.1 | 866.6 | 743.9 | 692.6 | 654.1 | 643.1 | 643.1 |
| 15° | 3089.1 | 2649.3 | 1934.8 | 1319.2 | 894.1 | 716.4 | 633.9 | 593.6 | 580.8 | 569.8 | 569.8 |
| 17.5° | 3310.8 | 2766.6 | 1843.2 | 1097.5 | 742.0 | 613.8 | 562.5 | 538.7 | 520.3 | 507.5 | 507.5 |
| 20° | 3563.6 | 2882.0 | 1696.6 | 901.4 | 626.6 | 547.8 | 507.5 | 480.0 | 465.4 | 454.4 | 450.7 |
| 22.5° | 3803.6 | 2975.5 | 1509.7 | 740.2 | 546.0 | 492.9 | 456.2 | 426.9 | 412.2 | 406.7 | 406.7 |
| 25° | 4052.8 | 3032.3 | 1284.4 | 611.9 | 498.4 | 447.1 | 406.7 | 382.9 | 370.1 | 366.4 | 364.6 |
| 27.5° | 4294.6 | 3065.2 | 1086.5 | 535.0 | 454.4 | 404.9 | 366.4 | 348.1 | 335.3 | 331.6 | 333.5 |
| 30° | 4587.8 | 3070.7 | 894.1 | 480.0 | 415.9 | 364.6 | 329.8 | 313.3 | 306.0 | 302.3 | 300.5 |
| 32.5° | 4884.6 | 3063.4 | 751.2 | 447.1 | 379.3 | 329.8 | 300.5 | 287.7 | 282.2 | 276.7 | 276.7 |
| 35° | 5218.1 | 3024.9 | 639.4 | 414.1 | 344.5 | 300.5 | 274.8 | 263.8 | 256.5 | 251.0 | 249.2 |
| 37.5° | 5632.1 | 3004.8 | 575.3 | 377.4 | 313.3 | 273.0 | 249.2 | 238.2 | 232.7 | 225.4 | 223.5 |
| 40° | 6284.4 | 3094.6 | 555.2 | 344.5 | 282.2 | 247.3 | 225.4 | 212.5 | 205.2 | 197.9 | 196.0 |
| 42.5° | 7097.9 | 3252.1 | 522.2 | 311.5 | 254.7 | 223.5 | 201.5 | 186.9 | 174.1 | 164.9 | 161.2 |
| 45° | 8151.4 | 3459.2 | 470.9 | 276.7 | 230.9 | 197.9 | 177.7 | 159.4 | 142.9 | 135.6 | 133.7 |
| 47.5° | 9256.2 | 3658.9 | 425.1 | 249.2 | 205.2 | 175.9 | 153.9 | 133.7 | 119.1 | 113.6 | 111.8 |
| 50° | 9934.1 | 3699.2 | 395.8 | 218.0 | 179.6 | 152.1 | 130.1 | 111.8 | 102.6 | 97.1 | 97.1 |
| 52.5° | 10243.7 | 3635.1 | 355.4 | 190.5 | 155.7 | 133.7 | 111.8 | 97.1 | 91.6 | 87.9 | 86.1 |
| 55° | 10459.9 | 3536.1 | 302.3 | 164.9 | 133.7 | 113.6 | 98.9 | 87.9 | 80.6 | 77.0 | 75.1 |
| 57° | 10586.4 | 3402.4 | 262.0 | 144.7 | 115.4 | 98.9 | 87.9 | 78.8 | 71.5 | 64.1 | 64.1 |
| 57.5° | 10591.9 | 3351.1 | 251.0 | 142.9 | 109.9 | 95.3 | 86.1 | 77.0 | 67.8 | 60.5 | 58.6 |
| 60° | 10428.8 | 2999.3 | 201.5 | 120.9 | 87.9 | 80.6 | 71.5 | 60.5 | 47.6 | 40.3 | 38.5 |
| 62.5° | 9904.8 | 2552.2 | 166.7 | 102.6 | 71.5 | 62.3 | 51.3 | 45.8 | 33.0 | 23.8 | 23.8 |
| 65° | 9111.5 | 2070.4 | 142.9 | 82.4 | 58.6 | 45.8 | 34.8 | 33.0 | 20.2 | 11.0 | 9.2 |
| 67.5° | 7964.5 | 1612.3 | 120.9 | 67.8 | 49.5 | 33.0 | 23.8 | 22.0 | 11.0 | 3.7 | 0.0 |
| 70° | 6068.2 | 1099.3 | 100.8 | 55.0 | 36.6 | 23.8 | 16.5 | 12.8 | 7.3 | 1.8 | 0.0 |
| 72.5° | 3497.6 | 604.6 | 84.3 | 42.1 | 27.5 | 18.3 | 12.8 | 7.3 | 7.3 | 0.0 | 0.0 |
| 75° | 1249.5 | 260.2 | 64.1 | 31.1 | 22.0 | 14.7 | 9.2 | 3.7 | 5.5 | 1.8 | 0.0 |
| 77.5° | 397.6 | 139.2 | 42.1 | 23.8 | 18.3 | 11.0 | 7.3 | 3.7 | 3.7 | 1.8 | 0.0 |
| 80° | 117.3 | 73.3 | 25.7 | 20.2 | 12.8 | 9.2 | 5.5 | 1.8 | 3.7 | 1.8 | 0.0 |
| 82.5° | 64.1 | 36.6 | 20.2 | 14.7 | 12.8 | 7.3 | 5.5 | 1.8 | 1.8 | 1.8 | 0.0 |
| 85° | 33.0 | 22.0 | 16.5 | 14.7 | 12.8 | 7.3 | 5.5 | 1.8 | 0.0 | 1.8 | 1.8 |
| 87.5° | 18.3 | 16.5 | 16.5 | 14.7 | 12.8 | 9.2 | 5.5 | 1.8 | 0.0 | 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)