

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: P532315

Luminaire Tested: **GLAN-SA7C-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532315
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7C-830-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22756 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

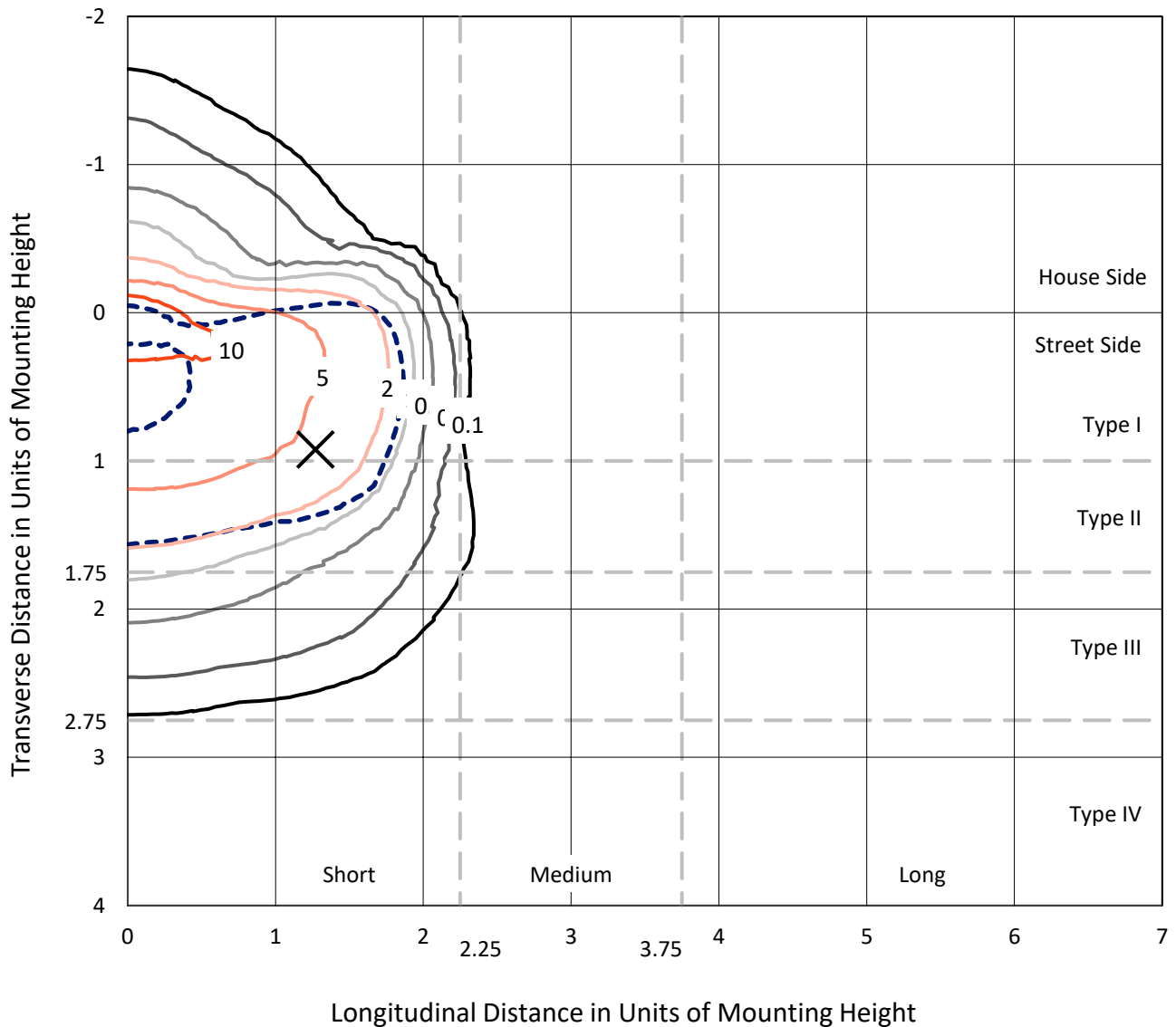
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

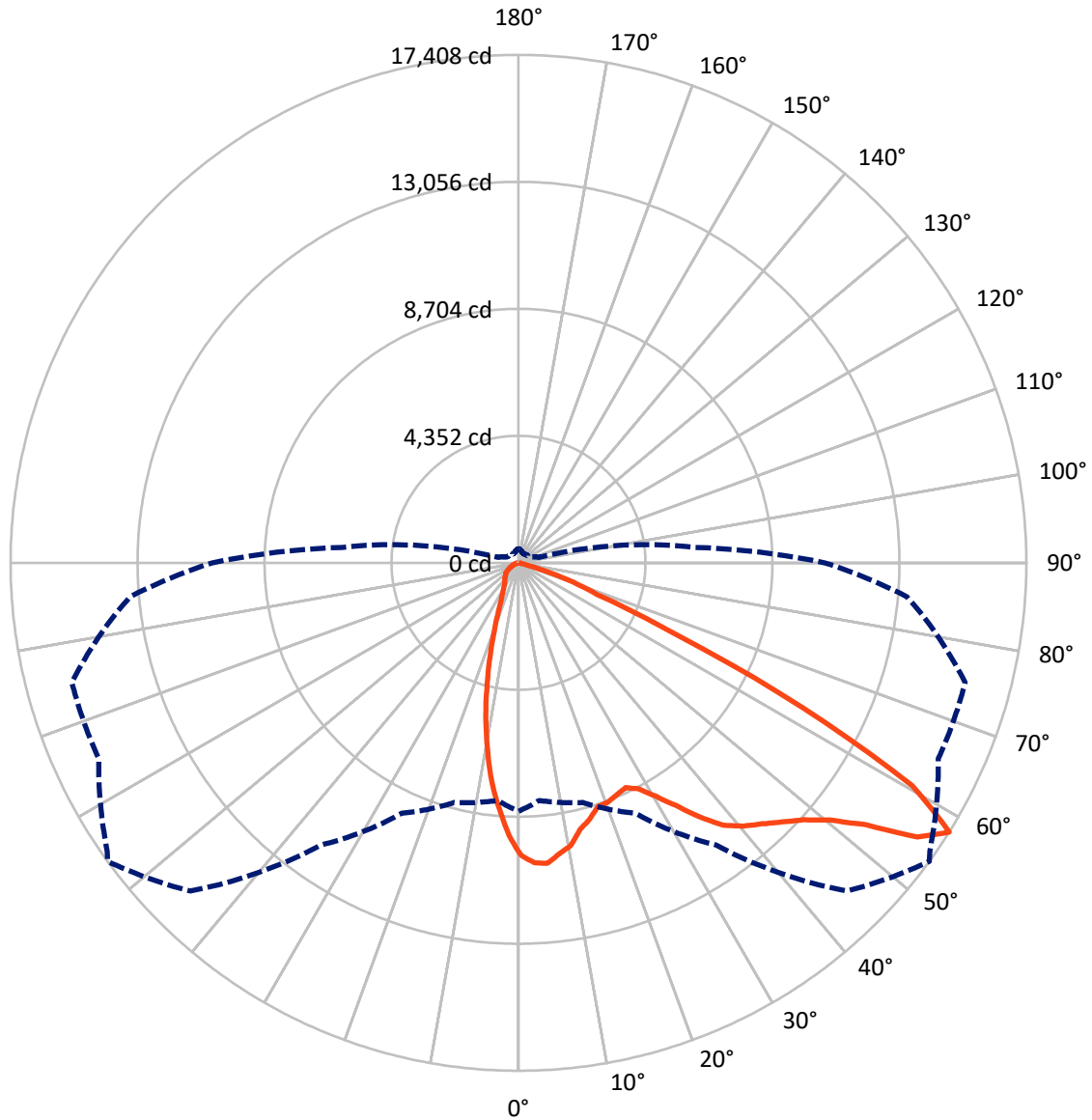
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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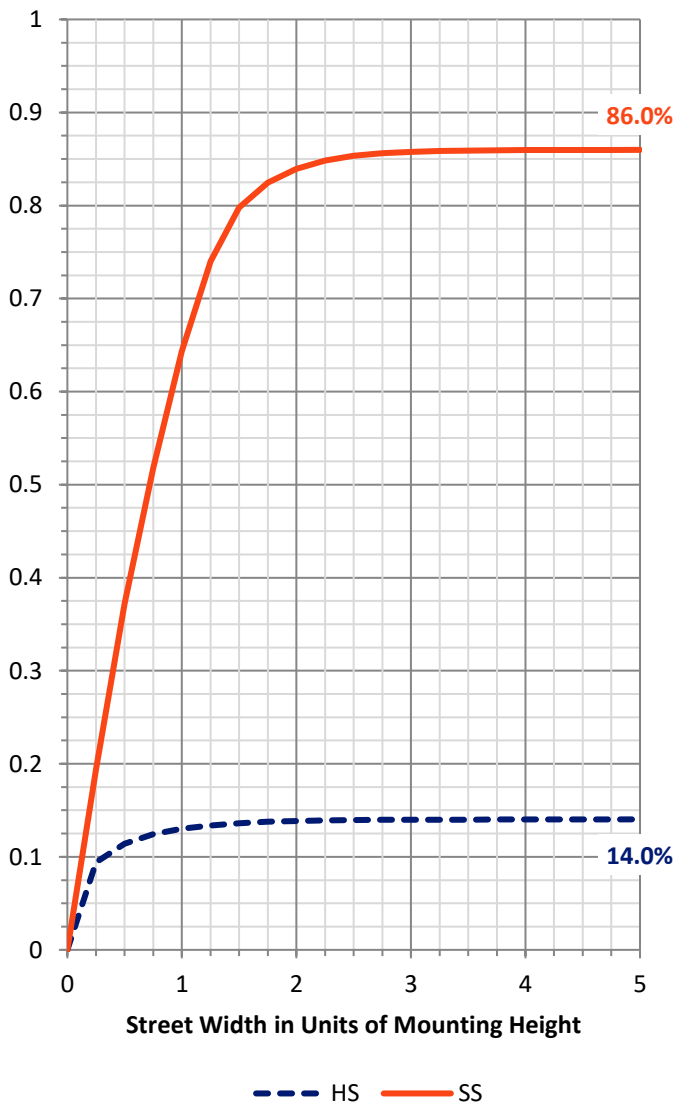
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3215.8 | 0.0 | 3215.8 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 19540.2 | 0.0 | 19540.2 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 22756.0 | 0.0 | 22756.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 838.9 | 3.7 |
| 10°-20° | 1790.9 | 7.9 |
| 20°-30° | 2373.4 | 10.4 |
| 30°-40° | 3449.1 | 15.2 |
| 40°-50° | 5114.6 | 22.5 |
| 50°-60° | 6395.6 | 28.1 |
| 60°-70° | 2522.8 | 11.1 |
| 70°-80° | 251.2 | 1.1 |
| 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° | 22756.0 | 100.0 |
| 0°-180° | 22756.0 | 100.0 |

Coefficient of Utilization



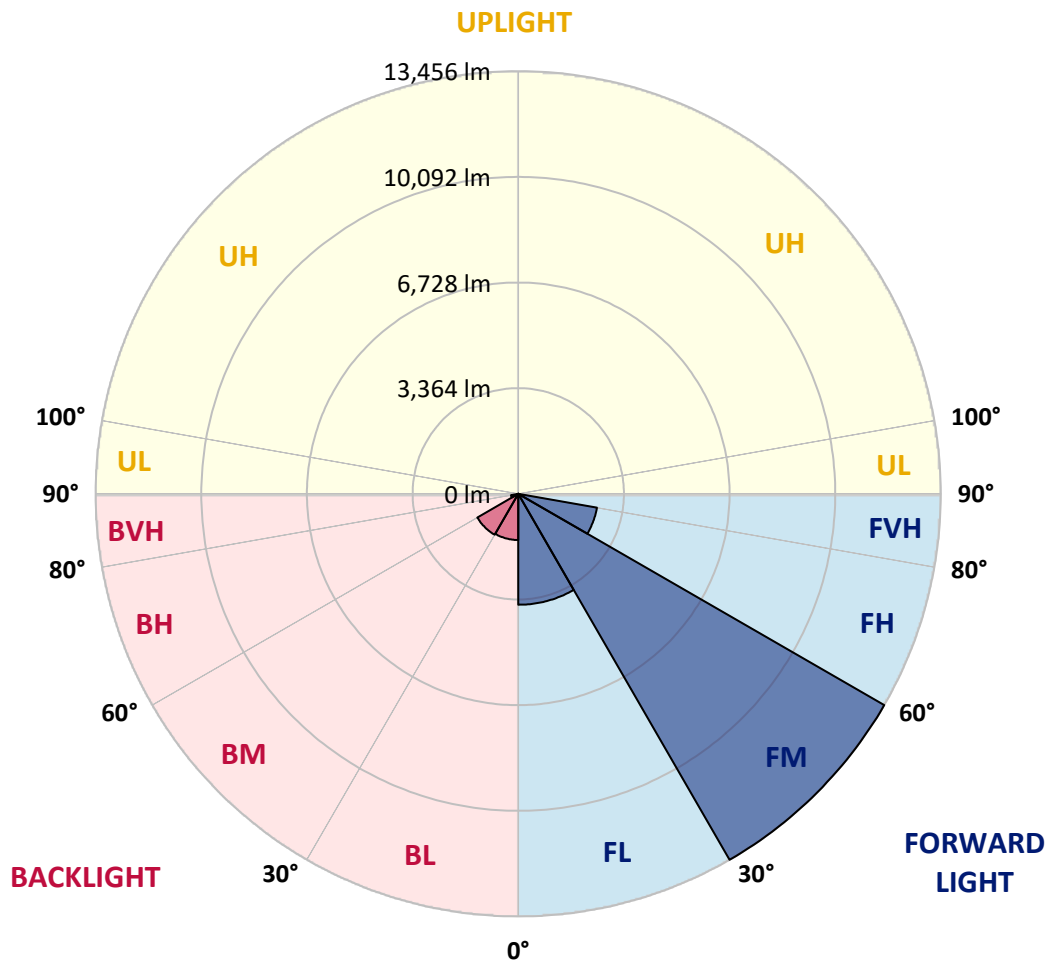
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3532.4 | 15.5 | | | |
| FM (30°-60°) | 13455.6 | 59.1 | | | |
| FH (60°-80°) | 2543.4 | 11.2 | | | G2/5000 |
| FVH (80°-90°) | 8.9 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1470.8 | 6.5 | B3/2500 | | |
| BM (30°-60°) | 1503.8 | 6.6 | B2/2500 | | |
| BH (60°-80°) | 230.6 | 1.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 10.7 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10024.3 | 10024.3 | 10024.3 | 10024.3 | 10024.3 | 10024.3 | 10024.3 | 10024.3 | 10024.3 | 10024.3 | 10024.3 |
| 2.5° | 10608.3 | 10498.2 | 10506.7 | 10468.6 | 10417.8 | 10455.9 | 10290.9 | 10329.0 | 10324.8 | 10100.5 | 9952.4 |
| 5° | 10341.7 | 10460.2 | 10337.5 | 10439.0 | 10341.7 | 10447.5 | 10345.9 | 10269.7 | 10147.0 | 9982.0 | 9707.0 |
| 7.5° | 9888.9 | 9774.7 | 9808.5 | 9935.5 | 9956.6 | 10193.6 | 10066.6 | 10164.0 | 10113.2 | 9787.4 | 9410.8 |
| 10° | 8979.2 | 8953.8 | 9123.0 | 9292.3 | 9499.6 | 9753.5 | 9850.8 | 9795.8 | 9757.7 | 9635.0 | 9131.5 |
| 12.5° | 8281.0 | 8352.9 | 8348.7 | 8627.9 | 8979.2 | 9123.0 | 9376.9 | 9368.4 | 9580.0 | 9351.5 | 8869.1 |
| 15° | 7616.6 | 7654.7 | 7832.4 | 8005.9 | 8395.2 | 8805.7 | 9118.8 | 9161.1 | 9415.0 | 9254.2 | 8666.0 |
| 17.5° | 7210.4 | 7155.4 | 7295.0 | 7502.4 | 7900.1 | 8437.5 | 8784.5 | 8886.1 | 9233.0 | 9199.2 | 8433.3 |
| 20° | 6808.4 | 6808.4 | 6922.7 | 7168.1 | 7532.0 | 8137.1 | 8754.9 | 8725.3 | 9233.0 | 9135.7 | 8183.6 |
| 22.5° | 6673.0 | 6740.7 | 6770.3 | 6956.5 | 7388.1 | 7908.6 | 8627.9 | 8683.0 | 9305.0 | 9106.1 | 8073.6 |
| 25° | 6859.2 | 6770.3 | 6778.8 | 6926.9 | 7333.1 | 7798.6 | 8534.9 | 8657.6 | 9436.2 | 9254.2 | 7984.8 |
| 27.5° | 6888.8 | 6977.7 | 7003.1 | 7104.6 | 7375.4 | 7832.4 | 8767.6 | 9017.2 | 9762.0 | 9601.2 | 8010.2 |
| 30° | 7146.9 | 7235.8 | 7231.6 | 7405.1 | 7591.2 | 8107.5 | 9288.1 | 9338.8 | 10434.8 | 10037.0 | 8166.7 |
| 32.5° | 7460.1 | 7553.2 | 7582.8 | 7785.9 | 7934.0 | 8611.0 | 9922.8 | 10053.9 | 11082.2 | 10722.5 | 8577.2 |
| 35° | 7849.4 | 7815.5 | 7950.9 | 8154.0 | 8471.4 | 9347.3 | 10697.1 | 10917.2 | 11780.4 | 11611.1 | 9000.3 |
| 37.5° | 8336.0 | 8293.7 | 8424.8 | 8754.9 | 9186.5 | 10219.0 | 11412.2 | 11556.1 | 12288.2 | 12436.3 | 9783.1 |
| 40° | 8678.7 | 8695.6 | 9093.4 | 9537.7 | 9994.7 | 11048.3 | 11865.0 | 12004.6 | 12643.6 | 13206.4 | 10375.5 |
| 42.5° | 9250.0 | 9355.8 | 9833.9 | 10375.5 | 10853.7 | 11670.4 | 12233.1 | 12368.6 | 12808.6 | 13824.2 | 11175.3 |
| 45° | 10079.3 | 10032.8 | 10561.7 | 11166.8 | 11695.8 | 12317.8 | 12669.0 | 12622.4 | 12905.9 | 14437.7 | 11678.8 |
| 47.5° | 11145.7 | 11154.1 | 11505.3 | 12021.6 | 12571.7 | 12880.6 | 13155.6 | 12990.6 | 13109.1 | 15085.1 | 12351.6 |
| 50° | 11873.5 | 11936.9 | 12220.5 | 12749.4 | 13024.4 | 13498.4 | 13849.6 | 13748.0 | 13709.9 | 15474.4 | 12774.8 |
| 52.5° | 12059.7 | 12250.1 | 12402.4 | 13062.5 | 13705.7 | 14454.7 | 14903.2 | 15119.0 | 14442.0 | 15605.6 | 13312.2 |
| 55° | 10654.8 | 10824.1 | 11361.5 | 12267.0 | 13963.8 | 15969.5 | 16587.3 | 16591.5 | 15398.3 | 16189.6 | 13688.8 |
| 57.5° | 8517.9 | 8175.2 | 8505.2 | 9465.8 | 11805.8 | 15906.1 | 17408.2 | 17209.3 | 15876.4 | 15846.8 | 13362.9 |
| 60° | 5890.2 | 5805.6 | 5826.7 | 6207.5 | 8170.9 | 12652.1 | 15512.5 | 15770.6 | 14619.7 | 13735.3 | 10578.6 |
| 62.5° | 4667.3 | 4595.4 | 4502.3 | 4460.0 | 5073.5 | 7883.2 | 10942.6 | 11306.5 | 10223.2 | 8907.2 | 6271.0 |
| 65° | 3656.0 | 3613.7 | 3626.4 | 3795.6 | 3791.4 | 4472.7 | 5983.3 | 5835.2 | 4671.5 | 3452.9 | 1971.9 |
| 67.5° | 2466.9 | 2530.4 | 2581.2 | 3093.2 | 3355.5 | 3114.4 | 2890.1 | 2805.5 | 1519.1 | 639.0 | 435.8 |
| 70° | 1387.9 | 1396.4 | 1451.4 | 1933.8 | 2547.3 | 2416.2 | 1993.0 | 1993.0 | 757.4 | 232.7 | 249.7 |
| 72.5° | 757.4 | 732.0 | 681.3 | 833.6 | 1134.0 | 1151.0 | 888.6 | 774.4 | 224.3 | 152.3 | 139.6 |
| 75° | 368.1 | 363.9 | 313.1 | 258.1 | 245.4 | 203.1 | 156.6 | 143.9 | 101.6 | 97.3 | 84.6 |
| 77.5° | 76.2 | 71.9 | 38.1 | 38.1 | 42.3 | 46.5 | 59.2 | 59.2 | 71.9 | 71.9 | 59.2 |
| 80° | 0.0 | 0.0 | 4.2 | 16.9 | 29.6 | 42.3 | 50.8 | 50.8 | 59.2 | 59.2 | 46.5 |
| 82.5° | 0.0 | 0.0 | 4.2 | 12.7 | 25.4 | 38.1 | 46.5 | 50.8 | 59.2 | 63.5 | 50.8 |
| 85° | 0.0 | 0.0 | 0.0 | 8.5 | 21.2 | 29.6 | 25.4 | 25.4 | 21.2 | 16.9 | 8.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10024.3 | 10024.3 | 10024.3 | 10024.3 | 10024.3 | 10024.3 | 10024.3 | 10024.3 | 10024.3 | 10024.3 | 10024.3 |
| 2.5° | 9876.2 | 9867.8 | 9673.1 | 9563.1 | 9364.2 | 9190.7 | 9051.1 | 8949.5 | 8949.5 | 8886.1 | 8826.8 |
| 5° | 9596.9 | 9525.0 | 9110.3 | 8843.7 | 8467.1 | 8187.9 | 7997.5 | 7849.4 | 7616.6 | 7680.1 | 7430.4 |
| 7.5° | 9250.0 | 9068.0 | 8517.9 | 8111.7 | 7591.2 | 7193.5 | 6787.3 | 6427.6 | 6080.6 | 5924.0 | 6008.7 |
| 10° | 8877.6 | 8560.2 | 7819.7 | 7176.6 | 6529.1 | 5801.3 | 5327.4 | 4751.9 | 4396.5 | 4375.3 | 4282.2 |
| 12.5° | 8484.1 | 8124.4 | 7223.1 | 6334.5 | 5484.0 | 4608.1 | 3884.5 | 3347.1 | 3105.9 | 2839.3 | 2890.1 |
| 15° | 8187.9 | 7654.7 | 6558.8 | 5488.2 | 4358.4 | 3474.0 | 2746.2 | 2331.5 | 2103.0 | 2039.6 | 2018.4 |
| 17.5° | 7866.3 | 7295.0 | 5881.7 | 4586.9 | 3419.0 | 2500.8 | 1976.1 | 1777.2 | 1688.4 | 1688.4 | 1675.7 |
| 20° | 7532.0 | 6888.8 | 5208.9 | 3749.1 | 2564.3 | 1866.1 | 1582.6 | 1519.1 | 1514.9 | 1510.6 | 1510.6 |
| 22.5° | 7312.0 | 6423.4 | 4599.6 | 2978.9 | 1933.8 | 1493.7 | 1375.2 | 1349.8 | 1366.8 | 1417.5 | 1417.5 |
| 25° | 7079.2 | 5974.8 | 3926.8 | 2297.7 | 1497.9 | 1282.1 | 1214.4 | 1231.4 | 1273.7 | 1320.2 | 1303.3 |
| 27.5° | 6842.3 | 5682.8 | 3292.1 | 1802.6 | 1227.1 | 1121.3 | 1095.9 | 1134.0 | 1180.6 | 1222.9 | 1210.2 |
| 30° | 6787.3 | 5369.7 | 2691.2 | 1366.8 | 1053.6 | 977.5 | 994.4 | 1028.2 | 1074.8 | 1091.7 | 1108.6 |
| 32.5° | 6871.9 | 5124.3 | 2204.6 | 1121.3 | 918.2 | 897.1 | 897.1 | 914.0 | 943.6 | 981.7 | 969.0 |
| 35° | 7113.1 | 4984.7 | 1743.4 | 973.2 | 842.1 | 820.9 | 816.7 | 833.6 | 850.5 | 863.2 | 850.5 |
| 37.5° | 7481.2 | 4874.6 | 1426.0 | 863.2 | 791.3 | 757.4 | 749.0 | 744.7 | 761.7 | 765.9 | 774.4 |
| 40° | 7950.9 | 4933.9 | 1210.2 | 795.5 | 740.5 | 702.4 | 677.0 | 677.0 | 677.0 | 689.7 | 694.0 |
| 42.5° | 8458.7 | 5014.3 | 1045.2 | 757.4 | 694.0 | 647.4 | 622.0 | 613.6 | 622.0 | 639.0 | 634.7 |
| 45° | 8991.8 | 5170.8 | 939.4 | 698.2 | 651.6 | 592.4 | 558.6 | 550.1 | 571.2 | 605.1 | 600.9 |
| 47.5° | 9491.2 | 5395.1 | 859.0 | 660.1 | 609.3 | 554.3 | 512.0 | 503.5 | 541.6 | 588.2 | 592.4 |
| 50° | 9990.5 | 5784.4 | 829.4 | 630.5 | 579.7 | 516.2 | 478.2 | 469.7 | 512.0 | 571.2 | 583.9 |
| 52.5° | 10566.0 | 6203.3 | 808.2 | 592.4 | 545.9 | 486.6 | 444.3 | 435.8 | 482.4 | 558.6 | 562.8 |
| 55° | 10942.6 | 6558.8 | 791.3 | 524.7 | 482.4 | 440.1 | 406.2 | 402.0 | 452.8 | 520.5 | 537.4 |
| 57.5° | 10502.5 | 6063.7 | 732.0 | 457.0 | 410.5 | 389.3 | 359.7 | 359.7 | 402.0 | 465.5 | 478.2 |
| 60° | 7963.6 | 3990.3 | 520.5 | 368.1 | 347.0 | 334.3 | 321.6 | 321.6 | 355.4 | 402.0 | 406.2 |
| 62.5° | 4663.1 | 2149.6 | 334.3 | 296.2 | 296.2 | 283.5 | 262.4 | 262.4 | 296.2 | 321.6 | 325.8 |
| 65° | 1383.7 | 689.7 | 270.8 | 253.9 | 249.7 | 228.5 | 207.3 | 203.1 | 228.5 | 241.2 | 237.0 |
| 67.5° | 397.8 | 317.4 | 224.3 | 211.6 | 207.3 | 173.5 | 160.8 | 156.6 | 160.8 | 152.3 | 148.1 |
| 70° | 237.0 | 215.8 | 173.5 | 177.7 | 156.6 | 126.9 | 114.2 | 110.0 | 101.6 | 88.9 | 80.4 |
| 72.5° | 131.2 | 131.2 | 126.9 | 135.4 | 110.0 | 84.6 | 71.9 | 59.2 | 46.5 | 38.1 | 33.9 |
| 75° | 80.4 | 84.6 | 88.9 | 93.1 | 71.9 | 55.0 | 46.5 | 29.6 | 16.9 | 8.5 | 8.5 |
| 77.5° | 55.0 | 59.2 | 63.5 | 67.7 | 59.2 | 50.8 | 38.1 | 21.2 | 4.2 | 0.0 | 0.0 |
| 80° | 42.3 | 46.5 | 55.0 | 59.2 | 63.5 | 67.7 | 50.8 | 21.2 | 4.2 | 0.0 | 0.0 |
| 82.5° | 46.5 | 50.8 | 63.5 | 59.2 | 59.2 | 59.2 | 46.5 | 21.2 | 4.2 | 0.0 | 0.0 |
| 85° | 8.5 | 12.7 | 21.2 | 21.2 | 29.6 | 38.1 | 29.6 | 8.5 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)