

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: P455848

Luminaire Tested: **GLAN-SA7A-750-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7A-750-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26097 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

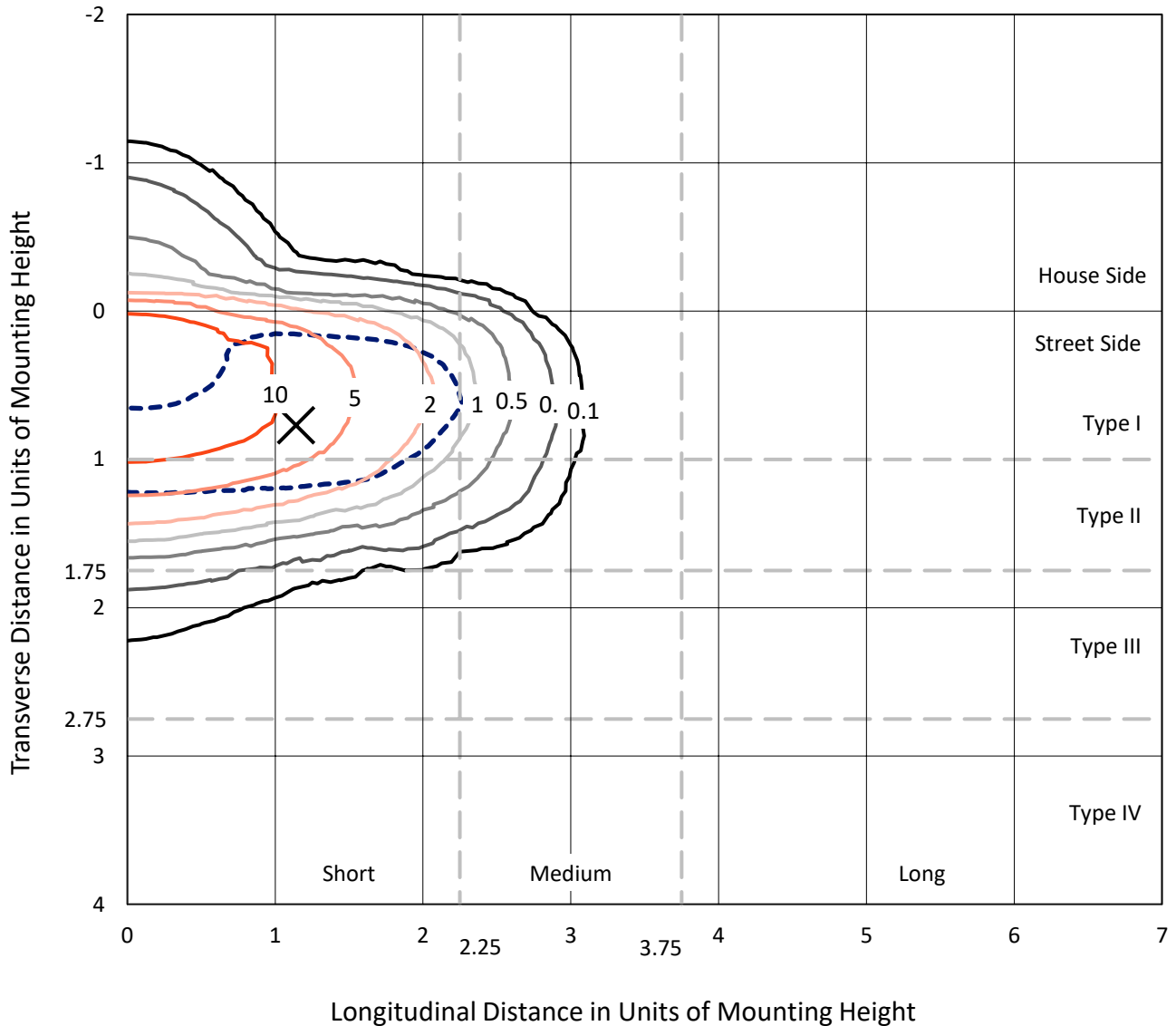
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

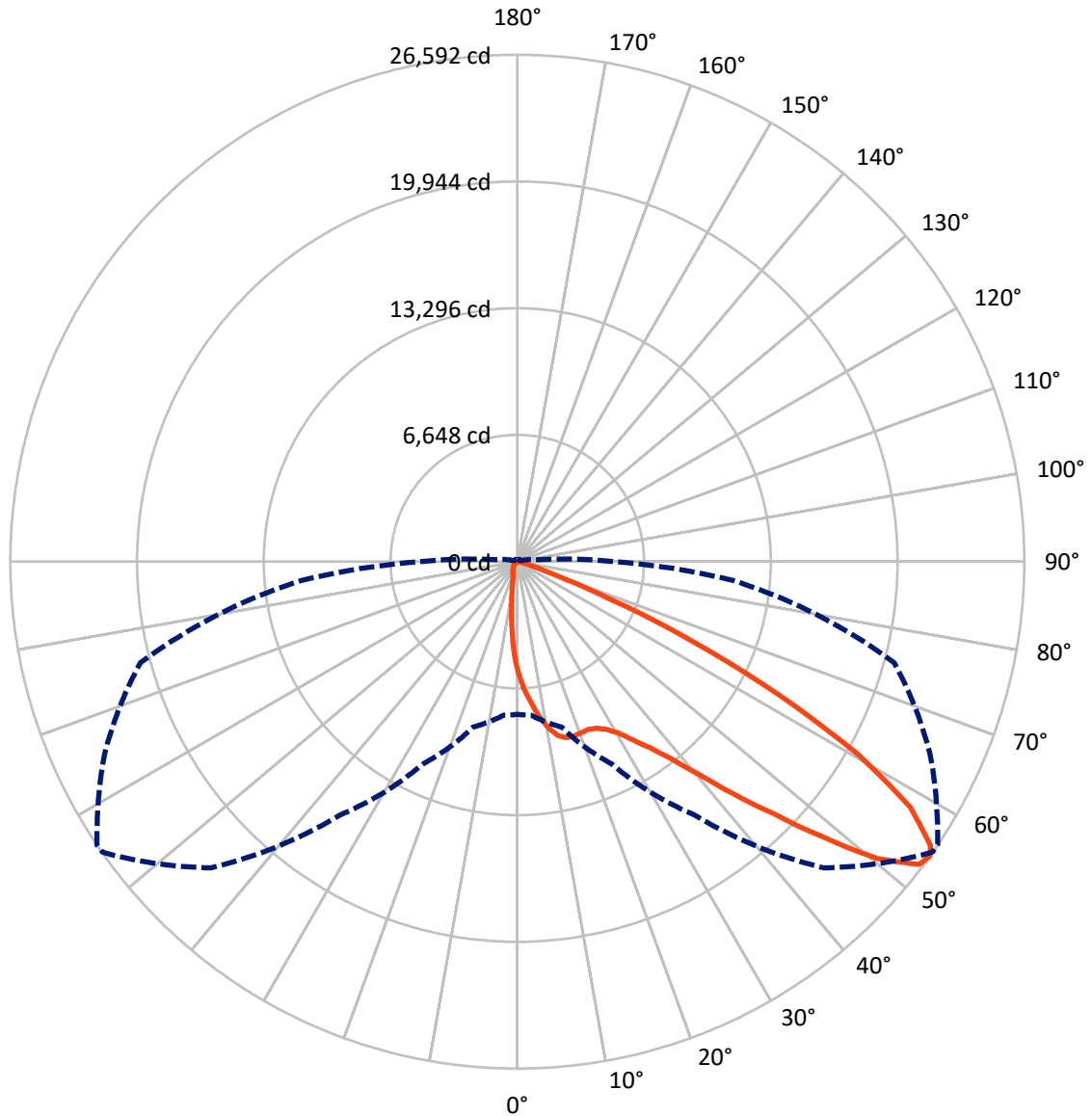
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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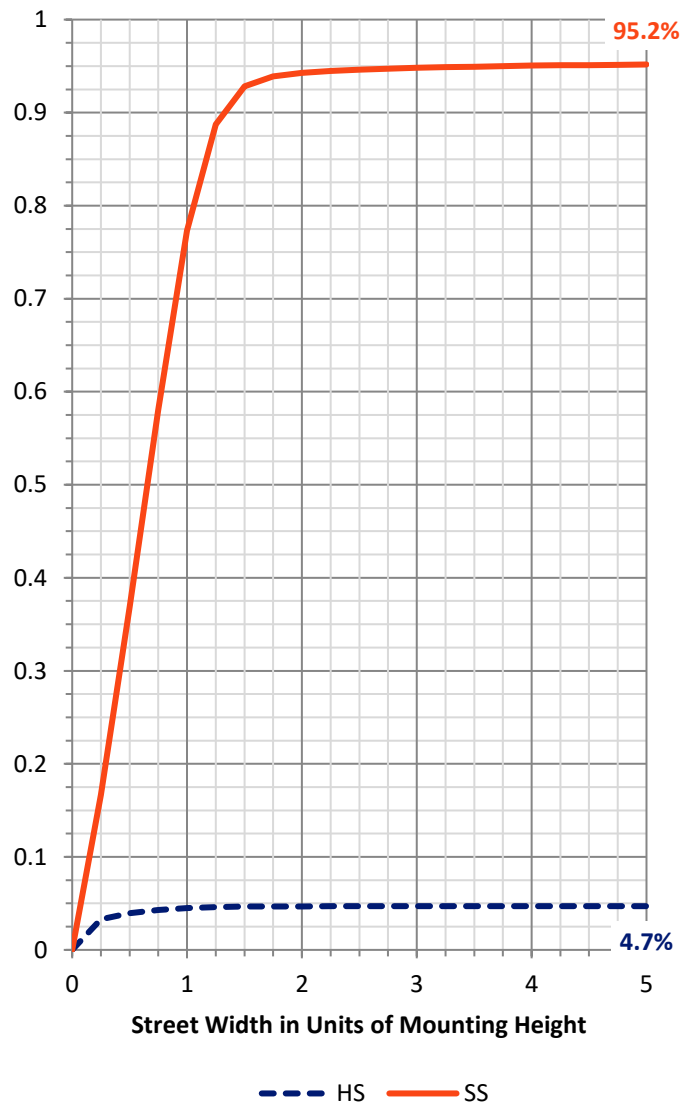
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1234.1 | 0.0 | 1234.1 |
| | % Fixture | 4.7 | 0.0 | 4.7 |
| Street Side | Lumens | 24862.9 | 0.0 | 24862.9 |
| | % Fixture | 95.3 | 0.0 | 95.3 |
| Total | Lumens | 26097.0 | 0.0 | 26097.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 512.3 | 2.0 |
| 10°-20° | 1385.1 | 5.3 |
| 20°-30° | 2398.8 | 9.2 |
| 30°-40° | 4140.7 | 15.9 |
| 40°-50° | 7047.6 | 27.0 |
| 50°-60° | 6974.4 | 26.7 |
| 60°-70° | 3183.3 | 12.2 |
| 70°-80° | 408.8 | 1.6 |
| 80°-90° | 46.1 | 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° | 26097.0 | 100.0 |
| 0°-180° | 26097.0 | 100.0 |



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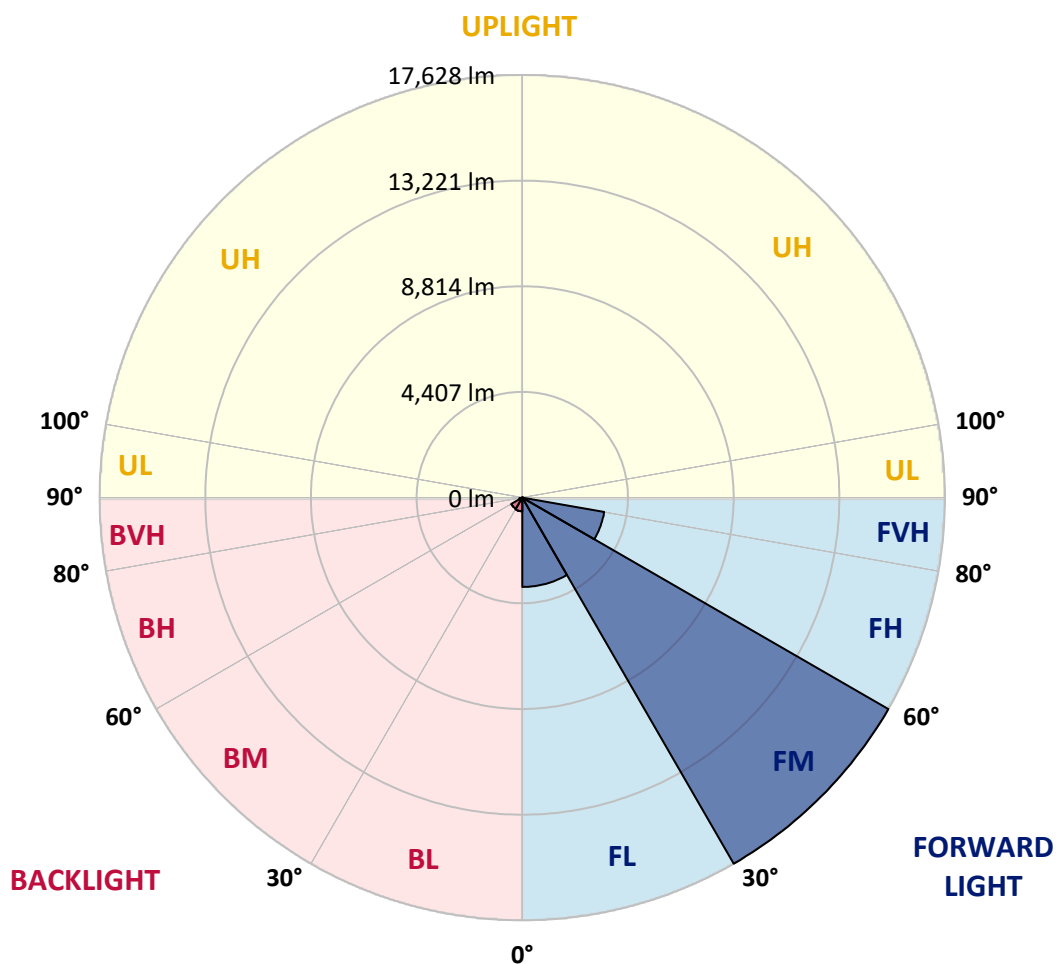
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3725.4 | 14.3 | | | |
| FM | (30°-60°) | 17627.8 | 67.5 | | | |
| FH | (60°-80°) | 3468.5 | 13.3 | | | G2/5000 |
| FVH | (80°-90°) | 41.1 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 570.7 | 2.2 | B2/1000 | | |
| BM | (30°-60°) | 534.8 | 2.0 | B1/1000 | | |
| BH | (60°-80°) | 123.6 | 0.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 4.9 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5798.0 | 5798.0 | 5798.0 | 5798.0 | 5798.0 | 5798.0 | 5798.0 | 5798.0 | 5798.0 | 5798.0 | 5798.0 |
| 2.5° | 7368.6 | 7317.5 | 7247.1 | 7192.5 | 7064.0 | 6879.1 | 6683.6 | 6683.6 | 6495.2 | 6232.9 | 5965.3 |
| 5° | 8498.9 | 8465.5 | 8396.8 | 8255.9 | 8111.6 | 7852.7 | 7460.1 | 7391.4 | 7055.1 | 6579.8 | 6079.7 |
| 7.5° | 8958.5 | 8974.3 | 8977.8 | 8940.9 | 8872.2 | 8616.9 | 8227.8 | 8180.2 | 7643.2 | 7005.8 | 6229.4 |
| 10° | 8518.3 | 8595.8 | 8671.5 | 8824.7 | 9041.2 | 9102.8 | 8882.8 | 8833.5 | 8305.2 | 7437.2 | 6391.4 |
| 12.5° | 7863.3 | 7905.6 | 7947.8 | 8189.0 | 8623.9 | 9122.2 | 9352.9 | 9351.1 | 8903.9 | 7866.8 | 6597.4 |
| 15° | 7558.7 | 7595.7 | 7599.2 | 7706.6 | 8083.4 | 8808.8 | 9553.6 | 9580.0 | 9488.4 | 8396.8 | 6819.2 |
| 17.5° | 7622.1 | 7652.0 | 7627.4 | 7653.8 | 7851.0 | 8463.7 | 9530.7 | 9618.7 | 9962.1 | 8905.6 | 7019.9 |
| 20° | 8035.9 | 8094.0 | 7998.9 | 7924.9 | 7984.8 | 8372.2 | 9453.2 | 9576.5 | 10296.6 | 9402.2 | 7203.0 |
| 22.5° | 8778.9 | 8810.6 | 8690.8 | 8488.4 | 8382.7 | 8564.1 | 9432.1 | 9553.6 | 10581.8 | 9808.9 | 7308.7 |
| 25° | 9604.6 | 9594.1 | 9462.0 | 9234.9 | 9013.1 | 8951.4 | 9571.2 | 9680.4 | 10817.8 | 10175.1 | 7340.4 |
| 27.5° | 10430.4 | 10462.1 | 10240.3 | 9958.6 | 9692.7 | 9532.5 | 9882.8 | 9963.8 | 11083.6 | 10592.4 | 7379.1 |
| 30° | 11390.0 | 11338.9 | 11120.6 | 10798.4 | 10493.8 | 10270.2 | 10384.6 | 10407.5 | 11449.9 | 11145.3 | 7481.2 |
| 32.5° | 12638.3 | 12497.5 | 12252.7 | 11689.3 | 11471.0 | 11092.4 | 11120.6 | 11148.8 | 11895.3 | 11692.8 | 7604.5 |
| 35° | 14332.1 | 14325.1 | 13846.2 | 13087.3 | 12555.6 | 12085.5 | 11962.2 | 11985.1 | 12569.7 | 12506.3 | 7877.4 |
| 37.5° | 16371.0 | 16399.2 | 15853.4 | 15089.2 | 14110.3 | 13363.8 | 13110.2 | 13113.7 | 13594.4 | 13629.6 | 8292.9 |
| 40° | 18031.4 | 18105.3 | 17779.6 | 17263.7 | 16297.1 | 15129.7 | 14703.7 | 14664.9 | 15034.7 | 14990.6 | 8886.3 |
| 42.5° | 18746.2 | 18814.9 | 18936.4 | 19116.0 | 18584.2 | 17621.1 | 16615.8 | 16668.6 | 16781.3 | 16473.2 | 9551.8 |
| 45° | 18395.9 | 18505.0 | 18982.2 | 20091.4 | 20591.5 | 20267.5 | 19068.4 | 18883.6 | 18406.4 | 18084.2 | 10220.9 |
| 47.5° | 16936.2 | 17202.1 | 17999.7 | 19846.7 | 21596.8 | 22692.0 | 21836.3 | 21591.5 | 20033.3 | 19260.4 | 10647.0 |
| 50° | 14536.4 | 14552.2 | 15663.2 | 18024.3 | 21075.6 | 24222.0 | 24662.2 | 24479.1 | 21549.3 | 19920.6 | 10861.8 |
| 52.5° | 10537.8 | 10884.7 | 11902.4 | 14636.7 | 18818.4 | 23989.6 | 26463.4 | 26387.7 | 23112.8 | 20258.7 | 11171.7 |
| 54° | 8011.2 | 8078.1 | 8983.1 | 11696.4 | 16224.9 | 22713.1 | 26574.3 | 26591.9 | 23889.3 | 20462.9 | 11354.8 |
| 55° | 6567.4 | 6407.2 | 7358.0 | 9963.8 | 14455.4 | 21584.5 | 26211.6 | 26296.1 | 24237.9 | 20568.6 | 11490.4 |
| 57.5° | 3112.9 | 3114.7 | 3841.9 | 5255.7 | 9053.5 | 16760.2 | 23994.9 | 24294.2 | 24276.6 | 20749.9 | 11907.7 |
| 60° | 1575.8 | 1586.4 | 1746.6 | 2426.3 | 4472.2 | 11141.7 | 19839.6 | 20552.7 | 22408.5 | 20776.3 | 12045.0 |
| 62.5° | 1102.2 | 1089.9 | 1063.5 | 1167.3 | 1882.2 | 5662.4 | 14770.6 | 15390.3 | 19038.5 | 19771.0 | 11608.3 |
| 65° | 943.7 | 917.3 | 843.4 | 827.5 | 950.8 | 2255.5 | 9199.7 | 10210.3 | 14536.4 | 17119.3 | 10365.3 |
| 67.5° | 806.4 | 795.8 | 728.9 | 688.4 | 672.6 | 982.5 | 4746.9 | 5278.6 | 9935.7 | 12305.6 | 7851.0 |
| 70° | 684.9 | 679.6 | 639.1 | 588.1 | 544.1 | 588.1 | 1760.7 | 2181.5 | 5537.4 | 6625.5 | 3704.5 |
| 72.5° | 556.4 | 561.7 | 568.7 | 503.6 | 457.8 | 417.3 | 751.8 | 875.1 | 2317.1 | 2368.1 | 1295.9 |
| 75° | 487.7 | 482.4 | 482.4 | 438.4 | 382.1 | 309.9 | 413.8 | 445.5 | 709.6 | 658.5 | 301.1 |
| 77.5° | 343.3 | 331.0 | 387.4 | 360.9 | 318.7 | 220.1 | 235.9 | 250.0 | 294.0 | 251.8 | 140.9 |
| 80° | 237.7 | 237.7 | 248.3 | 324.0 | 287.0 | 160.2 | 144.4 | 154.9 | 174.3 | 149.7 | 81.0 |
| 82.5° | 133.8 | 137.3 | 162.0 | 172.5 | 167.3 | 107.4 | 95.1 | 96.8 | 116.2 | 102.1 | 51.1 |
| 85° | 15.8 | 26.4 | 93.3 | 91.6 | 68.7 | 47.5 | 52.8 | 54.6 | 72.2 | 63.4 | 29.9 |
| 87.5° | 1.8 | 3.5 | 19.4 | 24.6 | 17.6 | 19.4 | 19.4 | 19.4 | 24.6 | 28.2 | 21.1 |
| 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° | 5798.0 | 5798.0 | 5798.0 | 5798.0 | 5798.0 | 5798.0 | 5798.0 | 5798.0 | 5798.0 | 5798.0 | 5798.0 |
| 2.5° | 5820.9 | 5687.1 | 5368.4 | 4998.6 | 4762.7 | 4378.9 | 4054.9 | 3820.7 | 3762.6 | 3649.9 | 3683.4 |
| 5° | 5813.8 | 5535.7 | 4886.0 | 4199.3 | 3466.8 | 2921.0 | 2514.3 | 2193.8 | 2053.0 | 1959.7 | 1894.5 |
| 7.5° | 5817.4 | 5382.5 | 4340.1 | 3246.7 | 2371.7 | 1836.4 | 1459.6 | 1264.2 | 1133.9 | 1079.3 | 1086.4 |
| 10° | 5827.9 | 5209.9 | 3706.3 | 2405.1 | 1600.5 | 1186.7 | 956.1 | 862.7 | 818.7 | 811.7 | 809.9 |
| 12.5° | 5852.6 | 5021.5 | 3100.6 | 1785.4 | 1119.8 | 862.7 | 774.7 | 743.0 | 728.9 | 728.9 | 723.6 |
| 15° | 5879.0 | 4813.8 | 2597.0 | 1327.6 | 862.7 | 741.3 | 700.8 | 684.9 | 676.1 | 676.1 | 674.4 |
| 17.5° | 5879.0 | 4574.3 | 2126.9 | 1030.0 | 743.0 | 681.4 | 649.7 | 628.6 | 621.5 | 621.5 | 619.8 |
| 20° | 5842.0 | 4296.1 | 1709.6 | 829.3 | 674.4 | 625.1 | 593.4 | 570.5 | 561.7 | 558.1 | 556.4 |
| 22.5° | 5713.5 | 3924.6 | 1361.0 | 713.1 | 618.0 | 575.8 | 535.3 | 508.8 | 501.8 | 498.3 | 500.0 |
| 25° | 5484.6 | 3505.6 | 1077.6 | 626.8 | 566.9 | 515.9 | 480.7 | 461.3 | 454.3 | 454.3 | 456.0 |
| 27.5° | 5248.7 | 3067.1 | 853.9 | 561.7 | 505.3 | 459.5 | 431.4 | 419.0 | 417.3 | 422.6 | 424.3 |
| 30° | 5030.3 | 2627.0 | 692.0 | 508.8 | 450.7 | 412.0 | 392.6 | 389.1 | 389.1 | 390.9 | 392.6 |
| 32.5° | 4787.4 | 2241.4 | 579.3 | 463.1 | 406.7 | 373.3 | 362.7 | 362.7 | 366.2 | 366.2 | 369.7 |
| 35° | 4634.2 | 1910.4 | 508.8 | 419.0 | 373.3 | 345.1 | 338.1 | 339.8 | 345.1 | 352.1 | 355.7 |
| 37.5° | 4551.4 | 1646.3 | 463.1 | 383.8 | 341.6 | 322.2 | 315.2 | 318.7 | 331.0 | 343.3 | 345.1 |
| 40° | 4558.5 | 1447.3 | 426.1 | 353.9 | 316.9 | 295.8 | 290.5 | 301.1 | 313.4 | 325.7 | 327.5 |
| 42.5° | 4635.9 | 1299.4 | 390.9 | 318.7 | 295.8 | 265.9 | 264.1 | 274.7 | 280.0 | 292.3 | 294.0 |
| 45° | 4727.5 | 1192.0 | 353.9 | 281.7 | 257.1 | 230.7 | 232.4 | 241.2 | 248.3 | 267.6 | 271.1 |
| 47.5° | 4755.7 | 1118.0 | 311.6 | 239.5 | 211.3 | 202.5 | 204.2 | 209.5 | 223.6 | 241.2 | 243.0 |
| 50° | 4787.4 | 1072.3 | 271.1 | 202.5 | 179.6 | 177.8 | 179.6 | 183.1 | 191.9 | 199.0 | 197.2 |
| 52.5° | 4922.9 | 1070.5 | 237.7 | 176.1 | 153.2 | 156.7 | 158.5 | 156.7 | 149.7 | 139.1 | 135.6 |
| 54° | 5049.7 | 1075.8 | 221.8 | 163.7 | 140.9 | 146.1 | 144.4 | 135.6 | 118.0 | 107.4 | 102.1 |
| 55° | 5151.8 | 1081.1 | 213.0 | 154.9 | 133.8 | 135.6 | 137.3 | 119.7 | 96.8 | 86.3 | 82.8 |
| 57.5° | 5352.5 | 1068.7 | 191.9 | 135.6 | 118.0 | 110.9 | 109.2 | 79.2 | 52.8 | 45.8 | 42.3 |
| 60° | 5252.2 | 964.9 | 174.3 | 116.2 | 100.4 | 89.8 | 73.9 | 44.0 | 26.4 | 19.4 | 19.4 |
| 62.5° | 4857.8 | 818.7 | 154.9 | 95.1 | 82.8 | 68.7 | 38.7 | 24.6 | 12.3 | 7.0 | 5.3 |
| 65° | 4345.4 | 688.4 | 139.1 | 75.7 | 65.1 | 44.0 | 21.1 | 15.8 | 5.3 | 0.0 | 0.0 |
| 67.5° | 3230.9 | 510.6 | 118.0 | 59.9 | 49.3 | 28.2 | 14.1 | 8.8 | 1.8 | 0.0 | 0.0 |
| 70° | 1496.6 | 311.6 | 100.4 | 45.8 | 35.2 | 21.1 | 10.6 | 5.3 | 0.0 | 0.0 | 0.0 |
| 72.5° | 429.6 | 195.4 | 82.8 | 33.5 | 24.6 | 17.6 | 8.8 | 3.5 | 1.8 | 0.0 | 0.0 |
| 75° | 149.7 | 156.7 | 61.6 | 24.6 | 19.4 | 12.3 | 7.0 | 3.5 | 1.8 | 0.0 | 0.0 |
| 77.5° | 89.8 | 126.8 | 38.7 | 21.1 | 15.8 | 10.6 | 7.0 | 3.5 | 1.8 | 1.8 | 0.0 |
| 80° | 51.1 | 84.5 | 24.6 | 17.6 | 14.1 | 8.8 | 5.3 | 3.5 | 1.8 | 1.8 | 0.0 |
| 82.5° | 28.2 | 40.5 | 19.4 | 15.8 | 12.3 | 8.8 | 5.3 | 3.5 | 1.8 | 1.8 | 1.8 |
| 85° | 22.9 | 21.1 | 15.8 | 14.1 | 10.6 | 7.0 | 5.3 | 1.8 | 0.0 | 0.0 | 0.0 |
| 87.5° | 17.6 | 14.1 | 14.1 | 14.1 | 10.6 | 7.0 | 5.3 | 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)