

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: P383700

Luminaire Tested: **GAN-SA9D-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52444.3 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

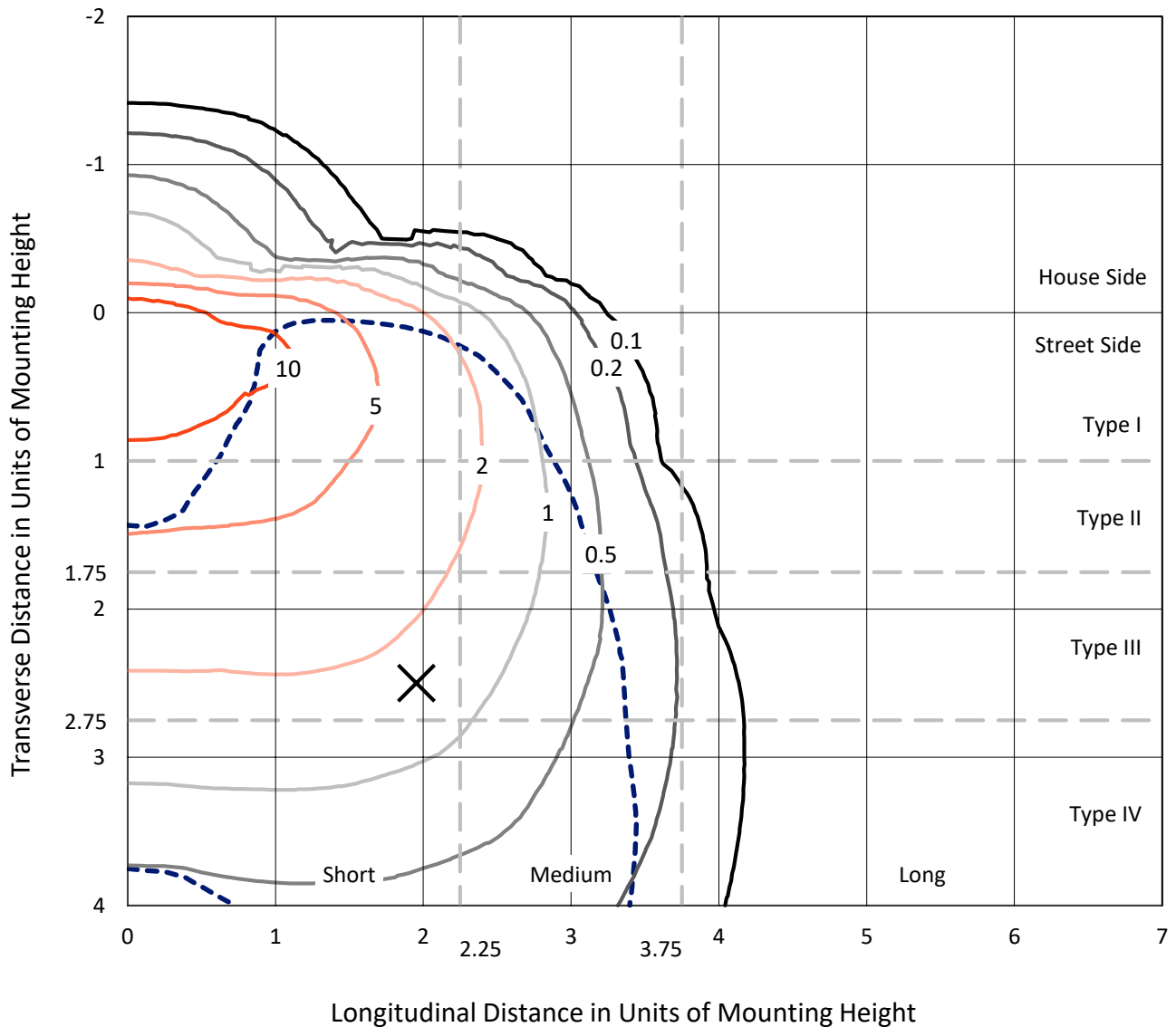
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

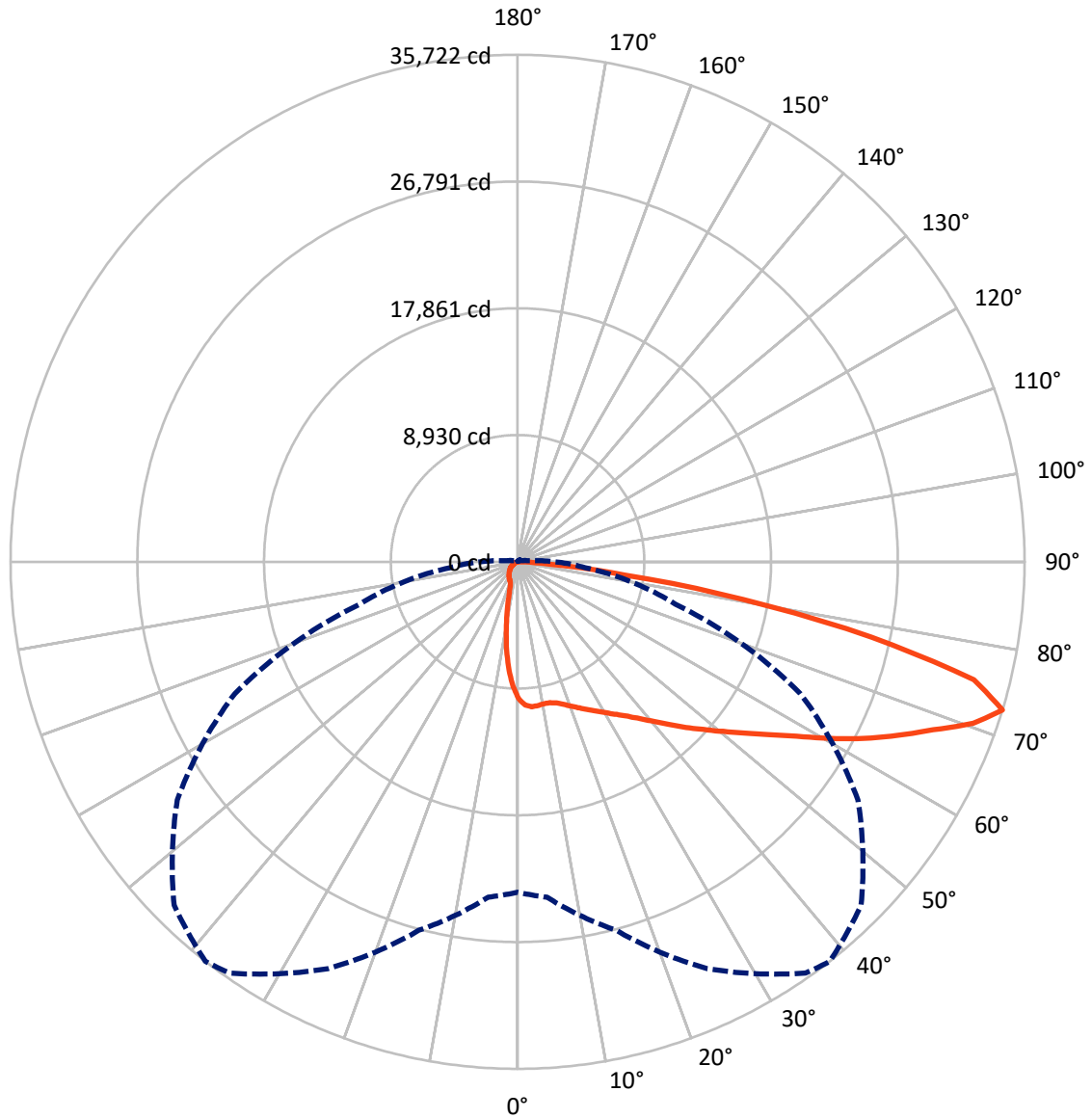
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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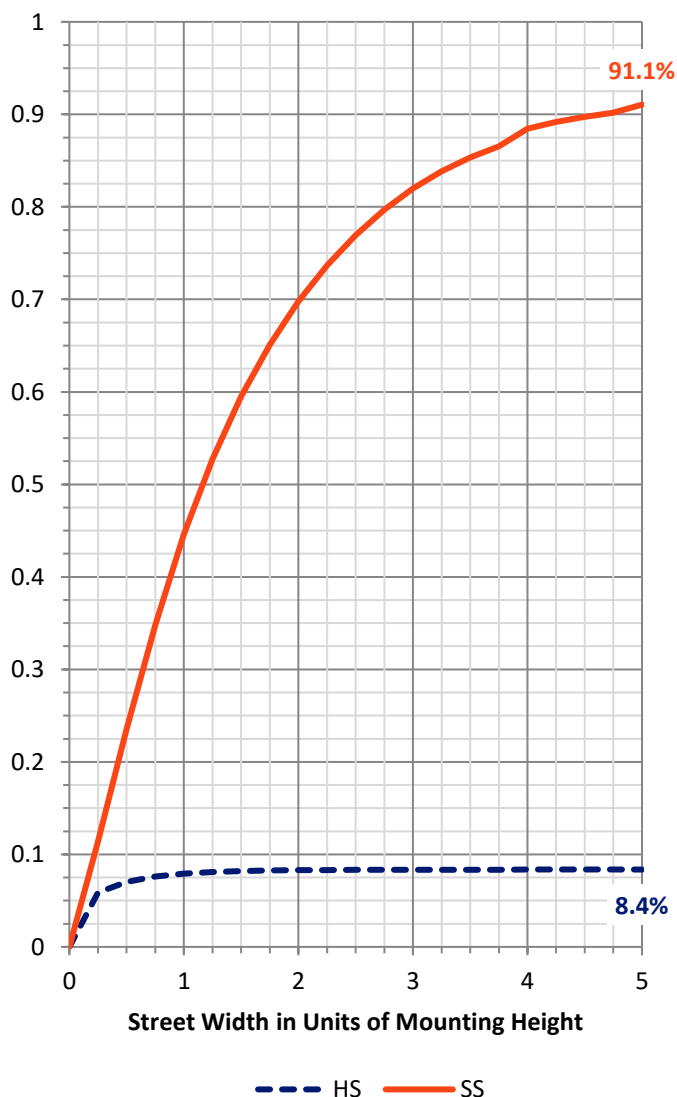
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4413.4 | 0.0 | 4413.4 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 48030.9 | 0.0 | 48030.9 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 52444.3 | 0.0 | 52444.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 821.9 | 1.6 |
| 10°-20° | 2009.7 | 3.8 |
| 20°-30° | 3196.4 | 6.1 |
| 30°-40° | 4805.4 | 9.2 |
| 40°-50° | 7331.0 | 14.0 |
| 50°-60° | 10361.1 | 19.8 |
| 60°-70° | 12996.3 | 24.8 |
| 70°-80° | 9717.6 | 18.5 |
| 80°-90° | 1205.0 | 2.3 |
| 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° | 52444.3 | 100.0 |
| 0°-180° | 52444.3 | 100.0 |

Coefficient of Utilization

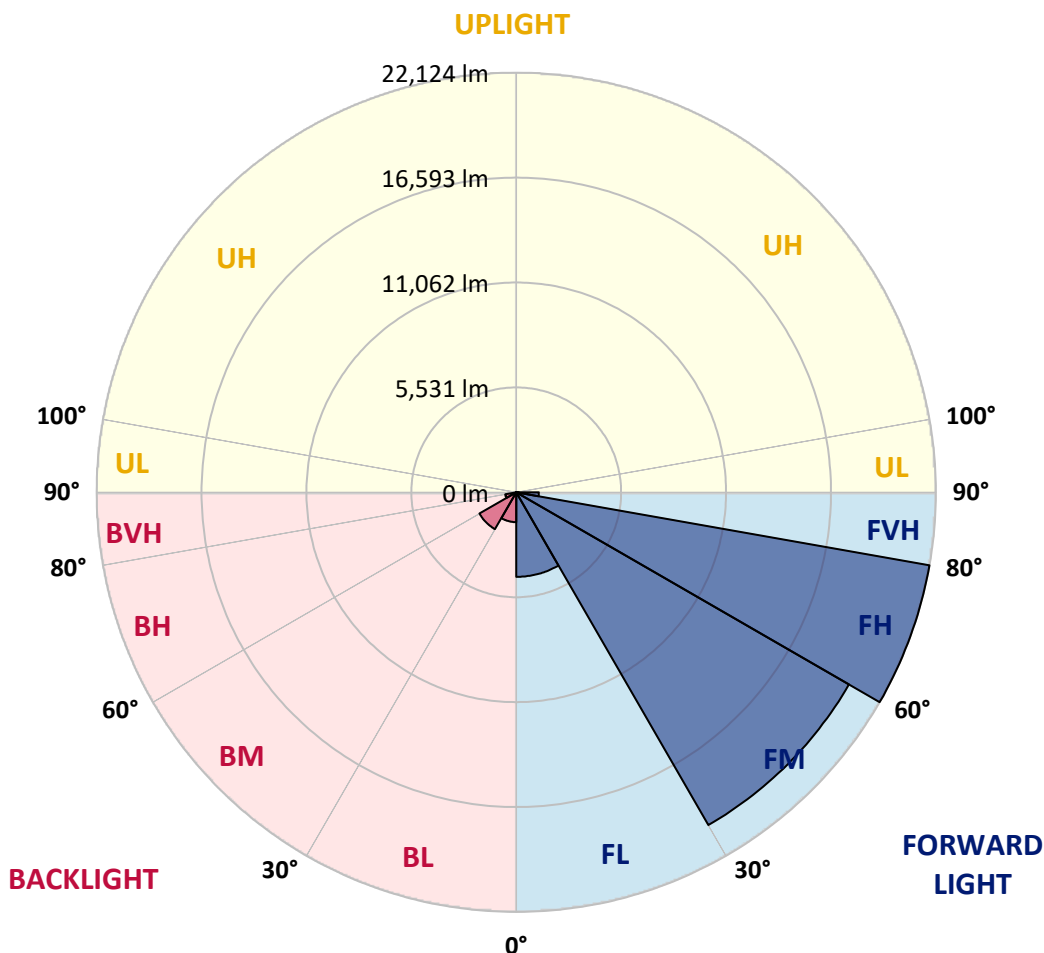


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4456.5 | 8.5 | | | |
| FM (30°-60°) | 20256.3 | 38.6 | | | |
| FH (60°-80°) | 22124.4 | 42.2 | | | G5 |
| FVH (80°-90°) | 1193.7 | 2.3 | | | G5 |
| BL (0°-30°) | 1571.4 | 3.0 | B3/2500 | | |
| BM (30°-60°) | 2241.2 | 4.3 | B2/2500 | | |
| BH (60°-80°) | 589.5 | 1.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 11.2 | 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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9644.3 | 9644.3 | 9644.3 | 9644.3 | 9644.3 | 9644.3 | 9644.3 | 9644.3 | 9644.3 | 9644.3 | 9644.3 |
| 2.5° | 10236.8 | 10238.9 | 10215.0 | 10175.8 | 10125.6 | 10099.6 | 10056.0 | 9986.3 | 9912.2 | 9779.4 | 9635.6 |
| 5° | 10445.8 | 10445.8 | 10415.4 | 10363.1 | 10282.5 | 10258.6 | 10175.8 | 10064.7 | 9912.2 | 9696.6 | 9454.8 |
| 7.5° | 10424.0 | 10428.4 | 10387.0 | 10332.5 | 10252.0 | 10230.3 | 10130.0 | 10005.8 | 9816.4 | 9555.1 | 9245.7 |
| 10° | 10310.8 | 10321.7 | 10289.0 | 10262.9 | 10188.8 | 10164.9 | 10071.2 | 9947.1 | 9757.6 | 9478.8 | 9123.8 |
| 12.5° | 10195.4 | 10206.2 | 10217.1 | 10241.2 | 10195.4 | 10186.7 | 10112.6 | 10008.1 | 9827.3 | 9537.7 | 9136.8 |
| 15° | 10121.4 | 10143.1 | 10221.5 | 10315.1 | 10326.0 | 10317.4 | 10269.4 | 10171.4 | 9988.4 | 9687.9 | 9230.5 |
| 17.5° | 10121.4 | 10156.2 | 10319.5 | 10498.1 | 10561.2 | 10567.8 | 10526.4 | 10389.2 | 10171.4 | 9849.1 | 9317.6 |
| 20° | 10206.2 | 10254.2 | 10509.0 | 10761.7 | 10866.2 | 10866.2 | 10785.6 | 10593.9 | 10339.2 | 9994.9 | 9376.4 |
| 22.5° | 10424.0 | 10487.3 | 10807.4 | 11099.3 | 11210.3 | 11186.4 | 11077.5 | 10798.7 | 10513.4 | 10160.5 | 9450.5 |
| 25° | 10853.2 | 10901.1 | 11234.3 | 11528.4 | 11595.8 | 11541.4 | 11404.2 | 11046.9 | 10735.5 | 10384.9 | 9585.5 |
| 27.5° | 11406.3 | 11412.9 | 11757.1 | 12005.3 | 11964.0 | 11926.9 | 11754.8 | 11358.5 | 11055.7 | 10705.1 | 9818.6 |
| 30° | 12014.0 | 12014.0 | 12316.7 | 12506.3 | 12379.9 | 12349.4 | 12177.4 | 11735.3 | 11465.2 | 11140.7 | 10149.7 |
| 32.5° | 12602.1 | 12628.2 | 12874.4 | 12994.2 | 12852.6 | 12822.1 | 12654.3 | 12212.2 | 12009.7 | 11804.9 | 10665.8 |
| 35° | 13170.6 | 13190.2 | 13423.2 | 13488.5 | 13353.5 | 13362.2 | 13242.4 | 12867.8 | 12791.5 | 12765.5 | 11443.4 |
| 37.5° | 13721.6 | 13726.0 | 13963.3 | 14004.8 | 13937.3 | 14011.3 | 14022.2 | 13691.1 | 13832.6 | 14043.9 | 12538.9 |
| 40° | 14224.7 | 14229.1 | 14464.3 | 14571.1 | 14686.5 | 14782.3 | 14867.2 | 14690.8 | 15159.1 | 15649.2 | 13843.5 |
| 42.5° | 14627.6 | 14673.4 | 14971.8 | 15174.4 | 15479.2 | 15662.2 | 15893.1 | 15884.4 | 16738.1 | 17474.3 | 15420.5 |
| 45° | 14982.6 | 15061.1 | 15477.1 | 15832.1 | 16354.8 | 16646.7 | 17008.3 | 17291.4 | 18515.4 | 19506.4 | 17017.0 |
| 47.5° | 15450.9 | 15525.0 | 15999.8 | 16581.4 | 17278.3 | 17661.7 | 18260.7 | 18872.7 | 20469.2 | 21501.5 | 18576.5 |
| 50° | 16110.9 | 16078.2 | 16546.5 | 17380.7 | 18275.8 | 18779.0 | 19632.7 | 20549.8 | 22407.6 | 23239.6 | 19493.4 |
| 52.5° | 16814.4 | 16801.3 | 17147.6 | 18249.8 | 19452.0 | 20040.1 | 21168.3 | 22283.5 | 24261.1 | 24437.6 | 19913.8 |
| 55° | 17685.6 | 17592.0 | 17883.9 | 19240.7 | 20848.1 | 21479.7 | 22808.4 | 23999.7 | 25737.8 | 25112.8 | 20125.1 |
| 57.5° | 18598.3 | 18443.6 | 18722.3 | 20345.0 | 22422.8 | 23169.9 | 24624.8 | 25672.4 | 26720.1 | 25574.4 | 20122.8 |
| 60° | 19541.4 | 19358.4 | 19689.4 | 21725.8 | 24378.7 | 25243.4 | 26593.8 | 26802.9 | 27637.1 | 25807.5 | 19974.7 |
| 62.5° | 20329.7 | 20220.8 | 20713.1 | 23202.6 | 26563.3 | 27412.7 | 28081.4 | 27830.9 | 28410.2 | 25988.3 | 19628.5 |
| 65° | 21163.9 | 21170.4 | 21965.4 | 24925.4 | 28885.1 | 29457.9 | 29514.5 | 29163.9 | 29057.1 | 25951.2 | 18456.7 |
| 67.5° | 22292.1 | 22396.7 | 23723.2 | 27264.6 | 31143.7 | 31585.8 | 31581.5 | 30607.9 | 29529.8 | 24478.9 | 15858.3 |
| 70° | 23485.7 | 23731.8 | 25748.7 | 29941.4 | 33609.2 | 34057.9 | 33827.0 | 31527.0 | 27804.7 | 19794.0 | 11223.4 |
| 72.5° | 23285.3 | 23712.3 | 26874.8 | 31629.4 | 35380.0 | 35721.9 | 34221.2 | 29268.4 | 21976.3 | 11504.3 | 4778.6 |
| 75° | 17964.4 | 18458.8 | 24642.2 | 29956.6 | 33522.1 | 33215.0 | 29403.5 | 22775.7 | 12009.7 | 3210.4 | 1075.9 |
| 77.5° | 9489.7 | 9753.2 | 16278.6 | 22821.4 | 26138.6 | 25496.1 | 20713.1 | 12634.8 | 3661.3 | 795.0 | 483.6 |
| 80° | 4970.3 | 5031.3 | 7093.8 | 12948.4 | 16132.7 | 16137.0 | 12275.4 | 5549.6 | 1509.4 | 407.3 | 324.6 |
| 82.5° | 2661.5 | 2713.8 | 3748.4 | 5983.1 | 8453.0 | 7662.4 | 4700.2 | 3053.6 | 877.7 | 230.8 | 311.4 |
| 85° | 640.3 | 651.2 | 2125.8 | 2733.4 | 3323.7 | 2374.0 | 1396.1 | 2563.5 | 237.5 | 135.1 | 252.6 |
| 87.5° | 246.1 | 250.5 | 788.5 | 1182.7 | 847.2 | 548.9 | 653.4 | 956.1 | 30.5 | 52.3 | 39.2 |
| 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° | 9644.3 | 9644.3 | 9644.3 | 9644.3 | 9644.3 | 9644.3 | 9644.3 | 9644.3 | 9644.3 | 9644.3 | 9644.3 |
| 2.5° | 9548.5 | 9491.9 | 9352.5 | 9176.0 | 9019.2 | 8906.0 | 8736.1 | 8625.0 | 8551.0 | 8548.8 | 8520.5 |
| 5° | 9306.7 | 9191.3 | 8890.7 | 8533.5 | 8209.0 | 7917.1 | 7573.0 | 7300.7 | 7098.2 | 7065.5 | 6995.8 |
| 7.5° | 9047.6 | 8858.1 | 8396.3 | 7838.7 | 7294.2 | 6741.1 | 6098.5 | 5700.0 | 5358.0 | 5194.6 | 5177.2 |
| 10° | 8888.5 | 8622.9 | 7967.2 | 7161.4 | 6307.6 | 5408.1 | 4567.4 | 3985.8 | 3565.4 | 3445.6 | 3356.4 |
| 12.5° | 8855.9 | 8505.2 | 7636.2 | 6525.4 | 5305.7 | 4116.5 | 3186.5 | 2567.9 | 2232.5 | 2125.8 | 2097.5 |
| 15° | 8888.5 | 8450.7 | 7357.4 | 5896.0 | 4290.7 | 2920.8 | 2138.8 | 1779.4 | 1653.1 | 1622.7 | 1620.4 |
| 17.5° | 8908.1 | 8385.4 | 7041.6 | 5196.8 | 3306.2 | 2086.6 | 1637.8 | 1533.3 | 1513.8 | 1511.5 | 1515.9 |
| 20° | 8906.0 | 8285.3 | 6664.8 | 4417.0 | 2459.0 | 1640.1 | 1481.1 | 1459.3 | 1454.9 | 1457.1 | 1454.9 |
| 22.5° | 8890.7 | 8167.6 | 6251.0 | 3613.4 | 1857.9 | 1465.8 | 1413.5 | 1400.5 | 1398.3 | 1398.3 | 1398.3 |
| 25° | 8919.0 | 8074.0 | 5795.7 | 2844.5 | 1531.2 | 1385.2 | 1352.5 | 1341.7 | 1339.5 | 1339.5 | 1335.1 |
| 27.5° | 9021.4 | 8021.6 | 5297.0 | 2189.0 | 1383.1 | 1313.4 | 1287.2 | 1285.1 | 1278.5 | 1276.3 | 1280.7 |
| 30° | 9186.9 | 8021.6 | 4750.3 | 1703.2 | 1293.7 | 1239.3 | 1219.7 | 1215.3 | 1213.2 | 1211.0 | 1213.2 |
| 32.5° | 9478.8 | 8082.7 | 4153.5 | 1415.8 | 1208.8 | 1156.5 | 1143.5 | 1150.0 | 1143.5 | 1143.5 | 1143.5 |
| 35° | 10005.8 | 8265.6 | 3528.4 | 1235.0 | 1119.5 | 1075.9 | 1062.9 | 1071.6 | 1067.3 | 1067.3 | 1065.0 |
| 37.5° | 10774.7 | 8605.5 | 2899.0 | 1126.1 | 1041.1 | 995.4 | 977.9 | 991.0 | 986.7 | 986.7 | 984.5 |
| 40° | 11711.3 | 9099.8 | 2300.0 | 1043.2 | 964.9 | 916.9 | 901.7 | 908.3 | 897.4 | 897.4 | 901.7 |
| 42.5° | 12867.8 | 9727.1 | 1777.3 | 962.7 | 888.6 | 842.9 | 834.2 | 827.7 | 808.0 | 797.1 | 799.4 |
| 45° | 14152.8 | 10380.5 | 1385.2 | 884.3 | 816.8 | 779.7 | 766.7 | 749.2 | 716.5 | 694.7 | 697.0 |
| 47.5° | 15300.7 | 10883.6 | 1126.1 | 808.0 | 751.4 | 723.1 | 703.5 | 670.8 | 622.9 | 596.7 | 599.0 |
| 50° | 15904.0 | 10959.8 | 958.4 | 731.8 | 690.5 | 662.1 | 633.8 | 583.7 | 527.1 | 498.8 | 496.6 |
| 52.5° | 16058.7 | 10602.7 | 834.2 | 662.1 | 629.4 | 596.7 | 559.8 | 492.2 | 429.1 | 398.6 | 394.2 |
| 55° | 16115.3 | 10058.2 | 723.1 | 596.7 | 564.1 | 527.1 | 479.2 | 402.9 | 344.1 | 313.7 | 311.4 |
| 57.5° | 15928.0 | 9245.7 | 636.0 | 538.0 | 498.8 | 453.0 | 394.2 | 322.3 | 265.7 | 241.7 | 241.7 |
| 60° | 15511.9 | 8145.8 | 568.4 | 474.8 | 431.2 | 379.0 | 318.0 | 250.5 | 198.2 | 178.6 | 178.6 |
| 62.5° | 14682.1 | 6721.4 | 505.3 | 409.5 | 368.1 | 313.7 | 257.0 | 189.5 | 139.4 | 128.5 | 130.7 |
| 65° | 13116.1 | 5098.7 | 442.1 | 350.6 | 313.7 | 259.2 | 200.4 | 135.1 | 93.6 | 93.6 | 98.0 |
| 67.5° | 10696.3 | 3541.5 | 376.8 | 298.4 | 270.1 | 211.3 | 152.5 | 93.6 | 65.3 | 74.1 | 82.7 |
| 70° | 7080.8 | 1986.3 | 322.3 | 246.1 | 230.8 | 167.7 | 113.3 | 63.2 | 52.3 | 69.7 | 85.0 |
| 72.5° | 2672.4 | 773.2 | 270.1 | 198.2 | 200.4 | 128.5 | 80.6 | 47.9 | 47.9 | 76.2 | 100.2 |
| 75° | 744.9 | 379.0 | 193.9 | 146.0 | 156.8 | 93.6 | 58.8 | 41.4 | 45.7 | 87.1 | 117.7 |
| 77.5° | 437.8 | 278.8 | 126.3 | 85.0 | 106.8 | 65.3 | 39.2 | 32.7 | 39.2 | 74.1 | 113.3 |
| 80° | 352.9 | 148.1 | 74.1 | 43.6 | 58.8 | 37.0 | 26.2 | 19.6 | 10.9 | 28.3 | 58.8 |
| 82.5° | 352.9 | 89.3 | 34.8 | 30.5 | 30.5 | 19.6 | 13.0 | 8.8 | 2.1 | 0.0 | 15.3 |
| 85° | 237.5 | 37.0 | 21.8 | 19.6 | 15.3 | 6.5 | 4.4 | 2.1 | 0.0 | 0.0 | 0.0 |
| 87.5° | 39.2 | 15.3 | 8.8 | 4.4 | 2.1 | 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)