

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: P320051

Luminaire Tested: **GAN-SA7C-750-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-750-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47537 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

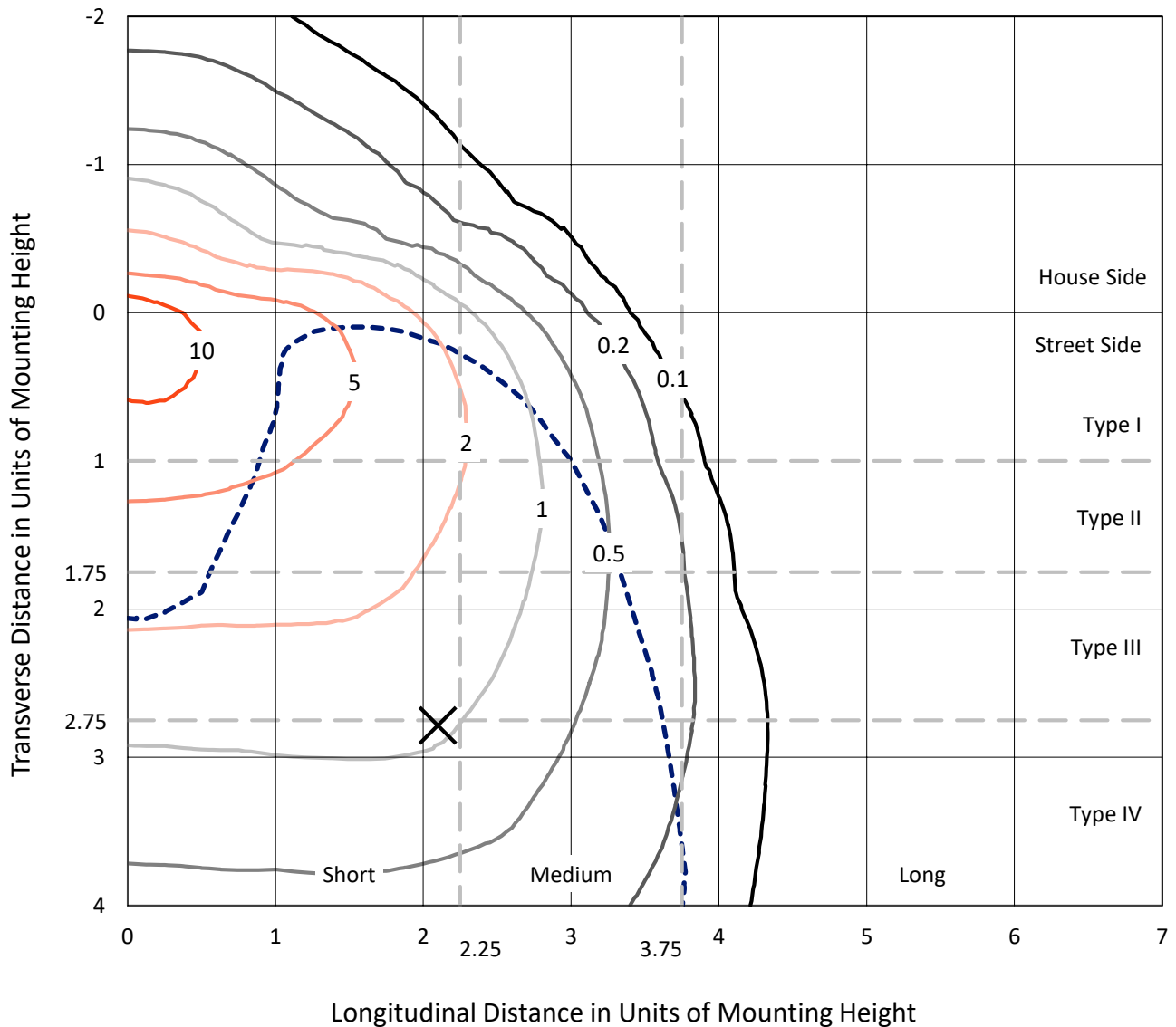
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

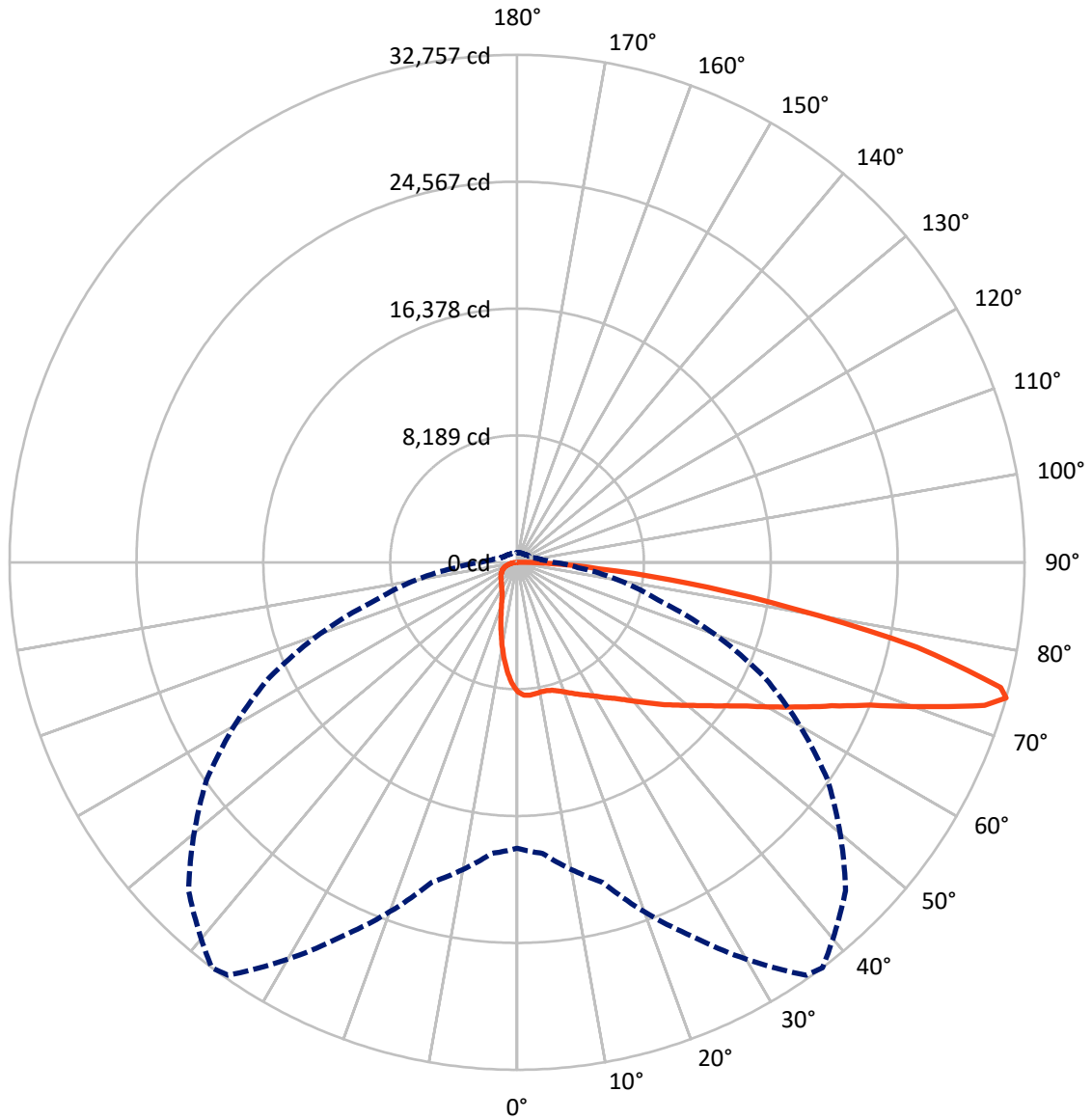
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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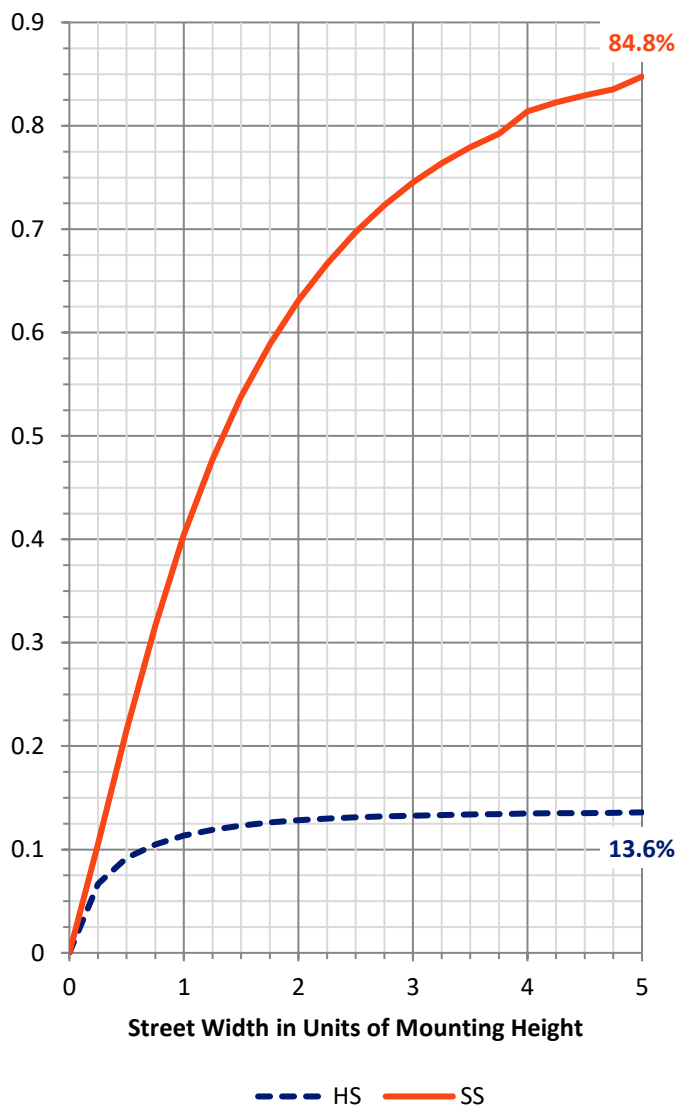
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6540.8 | 0.0 | 6540.8 |
| | % Fixture | 13.8 | 0.0 | 13.8 |
| Street Side | Lumens | 40996.3 | 0.0 | 40996.3 |
| | % Fixture | 86.2 | 0.0 | 86.2 |
| Total | Lumens | 47537.0 | 0.0 | 47537.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 737.6 | 1.6 |
| 10°-20° | 1890.6 | 4.0 |
| 20°-30° | 2913.1 | 6.1 |
| 30°-40° | 4236.1 | 8.9 |
| 40°-50° | 6234.8 | 13.1 |
| 50°-60° | 8755.6 | 18.4 |
| 60°-70° | 11081.9 | 23.3 |
| 70°-80° | 9758.0 | 20.5 |
| 80°-90° | 1929.4 | 4.1 |
| 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° | 47537.0 | 100.0 |
| 0°-180° | 47537.0 | 100.0 |

Coefficient of Utilization



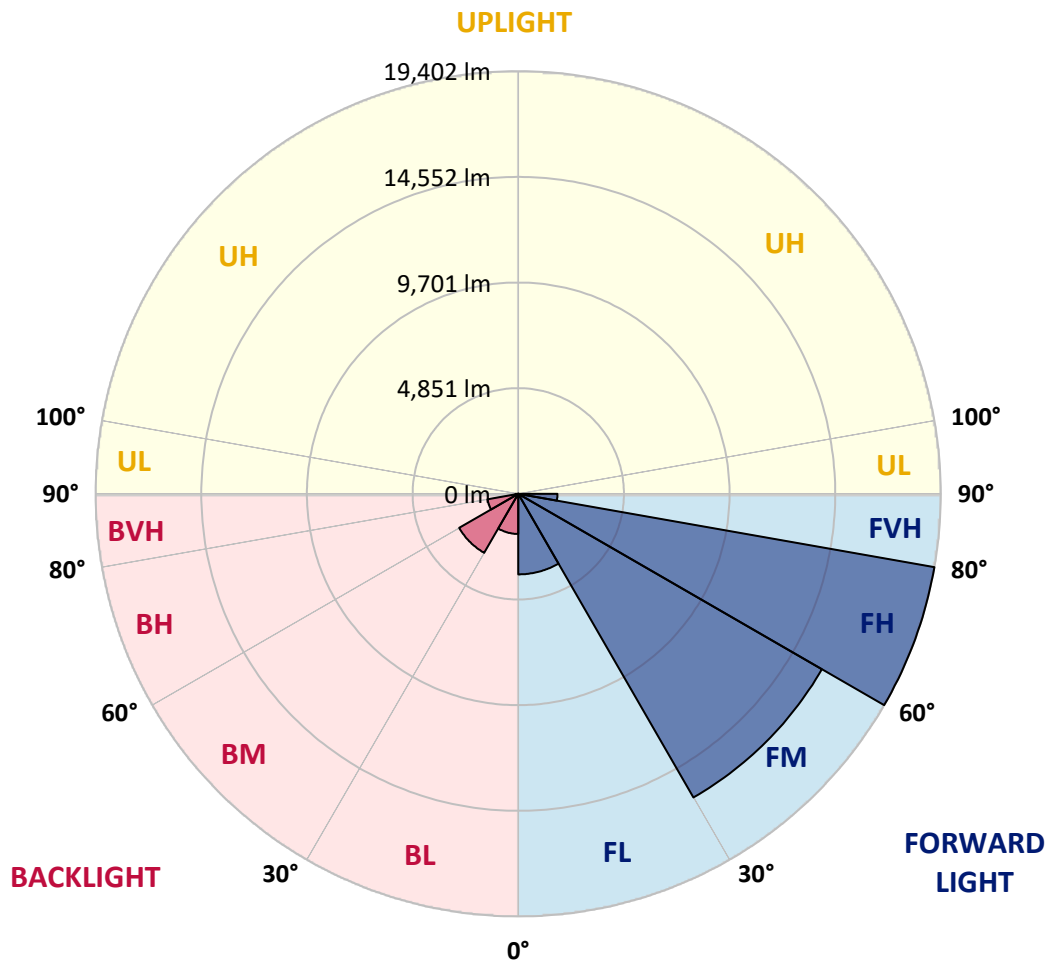
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3698.9 | 7.8 | | | |
| FM (30°-60°) | 16096.4 | 33.9 | | | |
| FH (60°-80°) | 19402.2 | 40.8 | | | G5 |
| FVH (80°-90°) | 1798.7 | 3.8 | | | G5 |
| BL (0°-30°) | 1842.4 | 3.9 | B3/2500 | | |
| BM (30°-60°) | 3130.0 | 6.6 | B3/5000 | | |
| BH (60°-80°) | 1437.7 | 3.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 130.6 | 0.3 | | | G2/225 |
| 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° | 37° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8375.8 | 8375.8 | 8375.8 | 8375.8 | 8375.8 | 8375.8 | 8375.8 | 8375.8 | 8375.8 | 8375.8 | 8375.8 |
| 2.5° | 8662.2 | 8663.8 | 8662.2 | 8648.8 | 8617.0 | 8590.2 | 8568.4 | 8536.6 | 8466.3 | 8412.7 | 8332.3 |
| 5° | 8744.2 | 8734.2 | 8727.5 | 8702.4 | 8652.1 | 8622.0 | 8580.1 | 8519.8 | 8404.3 | 8297.1 | 8166.5 |
| 7.5° | 8705.7 | 8694.0 | 8678.9 | 8648.8 | 8591.8 | 8566.7 | 8508.1 | 8429.4 | 8290.4 | 8149.8 | 7962.2 |
| 10° | 8586.8 | 8583.5 | 8576.8 | 8570.1 | 8521.5 | 8501.4 | 8447.8 | 8364.1 | 8226.8 | 8056.0 | 7836.6 |
| 12.5° | 8454.5 | 8462.9 | 8489.7 | 8524.9 | 8503.1 | 8493.0 | 8459.6 | 8402.6 | 8262.0 | 8077.8 | 7813.2 |
| 15° | 8370.8 | 8394.3 | 8466.3 | 8558.4 | 8576.8 | 8573.4 | 8565.1 | 8528.2 | 8379.2 | 8174.9 | 7866.8 |
| 17.5° | 8342.3 | 8380.9 | 8518.2 | 8670.5 | 8724.1 | 8735.9 | 8739.2 | 8675.6 | 8509.8 | 8293.8 | 7922.0 |
| 20° | 8394.3 | 8442.8 | 8643.8 | 8853.1 | 8938.5 | 8945.2 | 8930.1 | 8819.6 | 8633.7 | 8395.9 | 7952.2 |
| 22.5° | 8551.7 | 8595.2 | 8846.4 | 9082.5 | 9179.6 | 9189.6 | 9144.4 | 8977.0 | 8764.3 | 8516.5 | 7994.0 |
| 25° | 8854.7 | 8908.3 | 9159.5 | 9395.6 | 9445.8 | 9447.5 | 9382.2 | 9174.6 | 8935.1 | 8685.6 | 8084.5 |
| 27.5° | 9249.9 | 9303.5 | 9529.6 | 9760.6 | 9733.9 | 9718.8 | 9630.0 | 9422.4 | 9157.8 | 8918.4 | 8245.2 |
| 30° | 9690.3 | 9748.9 | 9963.3 | 10127.4 | 10063.7 | 10033.6 | 9961.6 | 9693.7 | 9467.6 | 9236.5 | 8491.4 |
| 32.5° | 10145.8 | 10199.4 | 10386.9 | 10499.1 | 10418.7 | 10405.3 | 10296.5 | 10052.0 | 9871.2 | 9722.1 | 8889.9 |
| 35° | 10613.0 | 10651.5 | 10835.7 | 10899.3 | 10792.1 | 10788.8 | 10758.6 | 10534.3 | 10420.4 | 10490.7 | 9469.3 |
| 37.5° | 11090.2 | 11100.2 | 11257.6 | 11261.0 | 11229.2 | 11242.6 | 11274.4 | 11133.7 | 11165.5 | 11384.9 | 10222.8 |
| 40° | 11515.5 | 11542.3 | 11656.2 | 11691.3 | 11746.6 | 11793.5 | 11952.6 | 11860.5 | 12106.6 | 12495.1 | 11160.5 |
| 42.5° | 11830.3 | 11882.2 | 12064.8 | 12155.2 | 12334.3 | 12408.0 | 12632.4 | 12717.8 | 13213.5 | 13796.2 | 12275.7 |
| 45° | 12096.6 | 12176.9 | 12470.0 | 12655.9 | 12958.9 | 13087.9 | 13409.4 | 13695.7 | 14464.3 | 15207.8 | 13449.6 |
| 47.5° | 12384.6 | 12486.7 | 12853.4 | 13208.4 | 13620.4 | 13766.0 | 14350.4 | 14779.1 | 15798.9 | 16627.8 | 14556.4 |
| 50° | 12808.2 | 12886.9 | 13245.3 | 13802.9 | 14317.0 | 14504.5 | 15313.3 | 15927.8 | 17155.2 | 17980.8 | 15515.9 |
| 52.5° | 13399.3 | 13369.2 | 13672.3 | 14454.3 | 15144.2 | 15375.2 | 16341.4 | 17150.2 | 18530.0 | 19204.8 | 16326.3 |
| 55° | 13993.8 | 13943.5 | 14156.2 | 15135.8 | 16108.7 | 16351.5 | 17473.4 | 18377.6 | 19837.8 | 20306.6 | 16947.6 |
| 57.5° | 14655.2 | 14559.8 | 14738.9 | 15904.4 | 17207.1 | 17496.8 | 18741.0 | 19682.0 | 21123.8 | 21197.5 | 17342.8 |
| 60° | 15336.7 | 15207.8 | 15408.7 | 16857.2 | 18602.0 | 18943.6 | 20224.6 | 20954.7 | 22336.1 | 21910.8 | 17470.0 |
| 62.5° | 15932.8 | 15842.4 | 16152.2 | 17920.5 | 20174.3 | 20549.4 | 21681.4 | 22307.7 | 23531.7 | 22207.2 | 17011.2 |
| 65° | 16453.6 | 16468.7 | 17004.5 | 19116.1 | 21927.5 | 22327.7 | 23352.5 | 23975.5 | 24472.8 | 22031.4 | 15937.9 |
| 67.5° | 17074.8 | 17160.2 | 18074.5 | 20690.1 | 24134.5 | 24573.2 | 25783.9 | 25794.0 | 24998.6 | 20999.9 | 13824.6 |
| 70° | 17980.8 | 18156.6 | 19546.4 | 22873.6 | 27272.5 | 27875.4 | 28809.7 | 26862.3 | 24260.1 | 18203.5 | 10877.5 |
| 72.5° | 18784.5 | 19112.7 | 21112.1 | 25372.0 | 31097.1 | 31554.2 | 30579.7 | 26246.1 | 21174.0 | 13642.1 | 6776.7 |
| 74° | 18458.0 | 18864.9 | 21396.7 | 26602.7 | 32537.2 | 32756.5 | 29981.9 | 24447.7 | 17654.2 | 9447.5 | 3938.4 |
| 75° | 17754.7 | 18196.8 | 20981.5 | 26591.0 | 32354.6 | 32232.4 | 28538.5 | 22393.1 | 14539.7 | 6443.5 | 2620.6 |
| 77.5° | 14328.7 | 14795.9 | 17679.3 | 22789.9 | 26529.1 | 26413.5 | 21922.5 | 15021.9 | 6368.1 | 2113.2 | 1331.2 |
| 80° | 8330.6 | 8687.3 | 10974.7 | 14472.7 | 17888.7 | 18098.0 | 14417.4 | 7433.1 | 2505.0 | 1187.2 | 902.6 |
| 82.5° | 3700.6 | 3946.8 | 5301.5 | 7387.9 | 10795.5 | 11065.1 | 7550.3 | 3894.9 | 1547.2 | 721.7 | 542.5 |
| 85° | 2428.0 | 2610.5 | 3218.4 | 3518.1 | 5140.7 | 5324.9 | 3695.6 | 3032.5 | 1021.4 | 396.9 | 398.5 |
| 87.5° | 1746.5 | 1922.3 | 2391.2 | 2088.1 | 2359.4 | 2233.8 | 2011.1 | 2806.5 | 410.3 | 226.1 | 134.0 |
| 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° | 8375.8 | 8375.8 | 8375.8 | 8375.8 | 8375.8 | 8375.8 | 8375.8 | 8375.8 | 8375.8 | 8375.8 | 8375.8 |
| 2.5° | 8297.1 | 8270.3 | 8210.1 | 8096.2 | 8032.6 | 7979.0 | 7890.2 | 7838.3 | 7814.9 | 7813.2 | 7823.3 |
| 5° | 8091.2 | 8029.2 | 7873.5 | 7682.6 | 7530.2 | 7391.2 | 7218.8 | 7114.9 | 7041.3 | 6997.7 | 7009.4 |
| 7.5° | 7851.7 | 7754.6 | 7510.1 | 7205.4 | 6960.9 | 6691.3 | 6425.0 | 6266.0 | 6142.1 | 6050.0 | 6066.7 |
| 10° | 7687.6 | 7553.7 | 7197.0 | 6758.3 | 6351.4 | 5959.5 | 5592.8 | 5373.5 | 5199.3 | 5065.4 | 5075.4 |
| 12.5° | 7632.4 | 7451.5 | 6957.5 | 6371.5 | 5800.5 | 5264.6 | 4785.7 | 4449.1 | 4270.0 | 4117.6 | 4129.3 |
| 15° | 7640.7 | 7397.9 | 6756.6 | 6023.2 | 5304.8 | 4630.0 | 4048.9 | 3655.4 | 3412.6 | 3307.1 | 3308.8 |
| 17.5° | 7647.4 | 7336.0 | 6545.6 | 5649.8 | 4814.2 | 4037.2 | 3405.9 | 3007.4 | 2778.0 | 2680.9 | 2682.5 |
| 20° | 7625.7 | 7235.5 | 6284.4 | 5221.1 | 4301.8 | 3493.0 | 2881.8 | 2543.6 | 2369.4 | 2294.1 | 2294.1 |
| 22.5° | 7597.2 | 7116.6 | 5989.7 | 4790.7 | 3796.1 | 3020.8 | 2506.7 | 2248.8 | 2148.4 | 2098.1 | 2096.5 |
| 25° | 7610.6 | 7027.9 | 5688.3 | 4348.7 | 3330.6 | 2644.0 | 2257.2 | 2086.4 | 2019.4 | 1987.6 | 1986.0 |
| 27.5° | 7682.6 | 6986.0 | 5410.3 | 3908.3 | 2923.7 | 2361.0 | 2089.8 | 1969.2 | 1925.7 | 1905.6 | 1905.6 |
| 30° | 7813.2 | 6986.0 | 5120.6 | 3533.2 | 2585.4 | 2151.7 | 1960.8 | 1878.8 | 1848.6 | 1835.2 | 1835.2 |
| 32.5° | 8040.9 | 7024.5 | 4841.0 | 3161.5 | 2315.8 | 1987.6 | 1853.7 | 1798.4 | 1775.0 | 1768.3 | 1768.3 |
| 35° | 8432.8 | 7155.1 | 4568.0 | 2809.8 | 2098.1 | 1853.7 | 1751.5 | 1719.7 | 1703.0 | 1701.3 | 1706.3 |
| 37.5° | 8983.7 | 7421.4 | 4311.8 | 2550.3 | 1944.1 | 1744.8 | 1666.1 | 1641.0 | 1631.0 | 1639.3 | 1646.0 |
| 40° | 9676.9 | 7783.1 | 4079.1 | 2315.8 | 1826.9 | 1657.8 | 1587.4 | 1570.7 | 1565.7 | 1577.4 | 1587.4 |
| 42.5° | 10514.2 | 8272.0 | 3888.2 | 2146.7 | 1736.5 | 1584.1 | 1520.4 | 1500.3 | 1495.3 | 1508.7 | 1522.1 |
| 45° | 11420.1 | 8797.8 | 3754.2 | 2021.1 | 1666.1 | 1528.8 | 1461.8 | 1440.1 | 1430.0 | 1436.7 | 1451.8 |
| 47.5° | 12243.9 | 9295.1 | 3700.6 | 1932.4 | 1599.1 | 1481.9 | 1409.9 | 1383.1 | 1366.4 | 1363.0 | 1374.8 |
| 50° | 12938.8 | 9665.2 | 3725.8 | 1878.8 | 1545.6 | 1430.0 | 1359.7 | 1329.6 | 1304.4 | 1289.4 | 1297.7 |
| 52.5° | 13444.5 | 9898.0 | 3749.2 | 1855.3 | 1503.7 | 1373.1 | 1304.4 | 1276.0 | 1242.5 | 1217.4 | 1217.4 |
| 55° | 13811.3 | 9951.5 | 3697.3 | 1836.9 | 1471.9 | 1311.1 | 1242.5 | 1215.7 | 1182.2 | 1153.7 | 1150.4 |
| 57.5° | 13955.3 | 9800.8 | 3504.7 | 1810.1 | 1450.1 | 1252.5 | 1177.2 | 1157.1 | 1128.6 | 1095.1 | 1093.4 |
| 60° | 13761.0 | 9335.3 | 3133.0 | 1753.2 | 1421.6 | 1204.0 | 1111.9 | 1098.5 | 1085.1 | 1053.3 | 1051.6 |
| 62.5° | 12980.7 | 8313.9 | 2652.4 | 1637.7 | 1364.7 | 1152.1 | 1051.6 | 1058.3 | 1060.0 | 1038.2 | 1034.8 |
| 65° | 11565.8 | 6910.7 | 2183.5 | 1487.0 | 1279.3 | 1090.1 | 989.6 | 1021.4 | 1039.9 | 1036.5 | 1031.5 |
| 67.5° | 9509.5 | 5378.5 | 1850.3 | 1327.9 | 1167.1 | 1004.7 | 922.6 | 959.5 | 974.6 | 986.3 | 982.9 |
| 70° | 7058.0 | 3792.7 | 1530.5 | 1160.4 | 1031.5 | 904.2 | 835.6 | 854.0 | 843.9 | 857.3 | 862.4 |
| 72.5° | 3935.1 | 2275.6 | 1247.5 | 993.0 | 890.8 | 787.0 | 738.5 | 735.1 | 713.3 | 713.3 | 713.3 |
| 74° | 2361.0 | 1669.5 | 1096.8 | 889.2 | 805.4 | 710.0 | 668.1 | 653.1 | 633.0 | 634.6 | 633.0 |
| 75° | 1898.9 | 1435.0 | 1006.4 | 820.5 | 745.2 | 664.8 | 622.9 | 602.8 | 587.7 | 587.7 | 586.1 |
| 77.5° | 1198.9 | 1090.1 | 810.5 | 653.1 | 596.1 | 547.6 | 519.1 | 492.3 | 492.3 | 490.6 | 489.0 |
| 80° | 905.9 | 867.4 | 631.3 | 494.0 | 457.1 | 420.3 | 401.9 | 390.2 | 390.2 | 395.2 | 393.5 |
| 82.5° | 621.2 | 653.1 | 443.7 | 344.9 | 326.5 | 299.7 | 296.4 | 298.1 | 293.0 | 286.3 | 284.7 |
| 85° | 453.8 | 490.6 | 299.7 | 217.7 | 199.3 | 182.5 | 195.9 | 202.6 | 194.2 | 179.2 | 172.5 |
| 87.5° | 174.1 | 321.5 | 160.8 | 90.4 | 83.7 | 72.0 | 83.7 | 87.1 | 93.8 | 73.7 | 75.4 |
| 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)