

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: P318621

Luminaire Tested: **GAN-SA7D-722-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-722-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40353 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

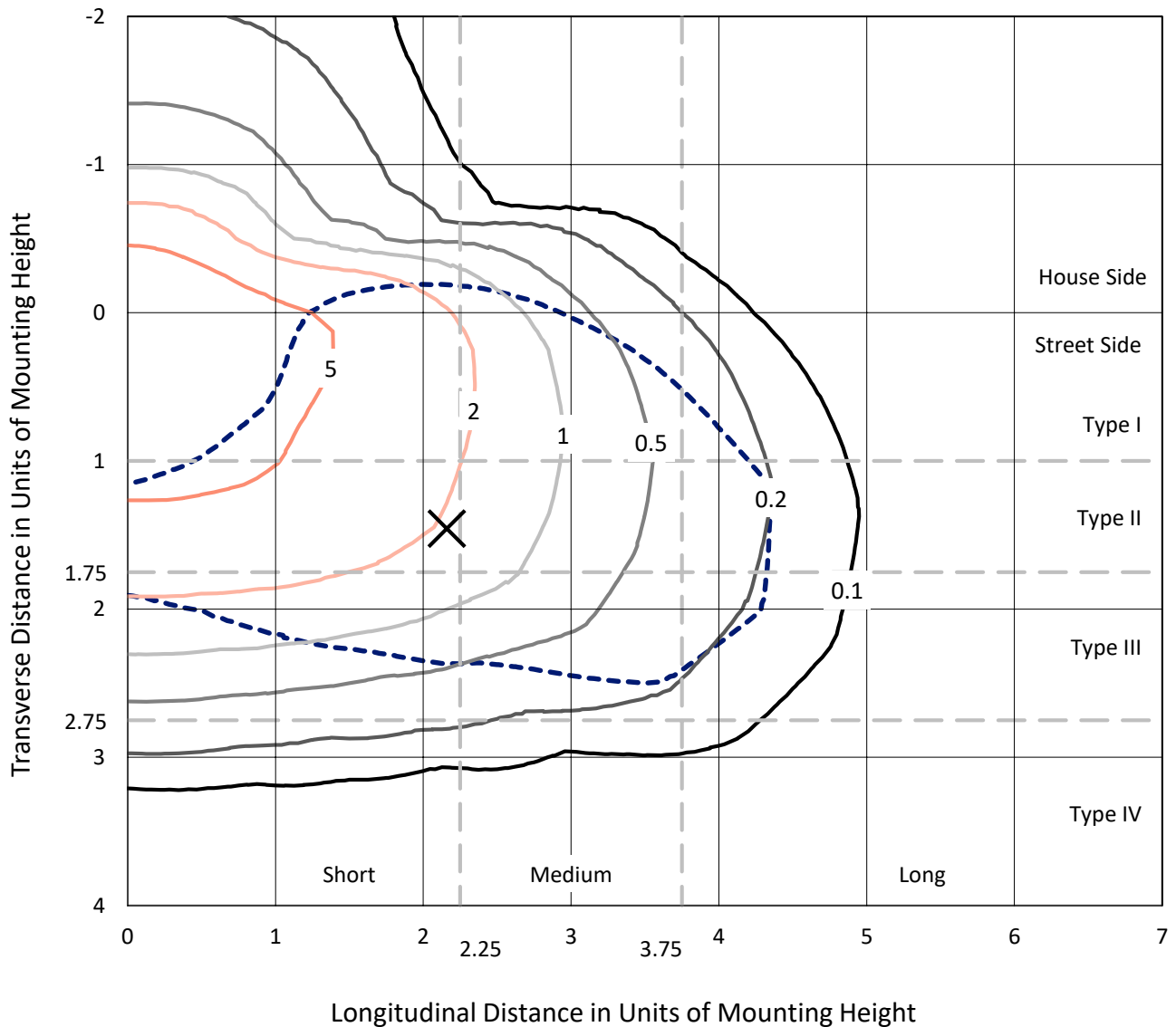
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

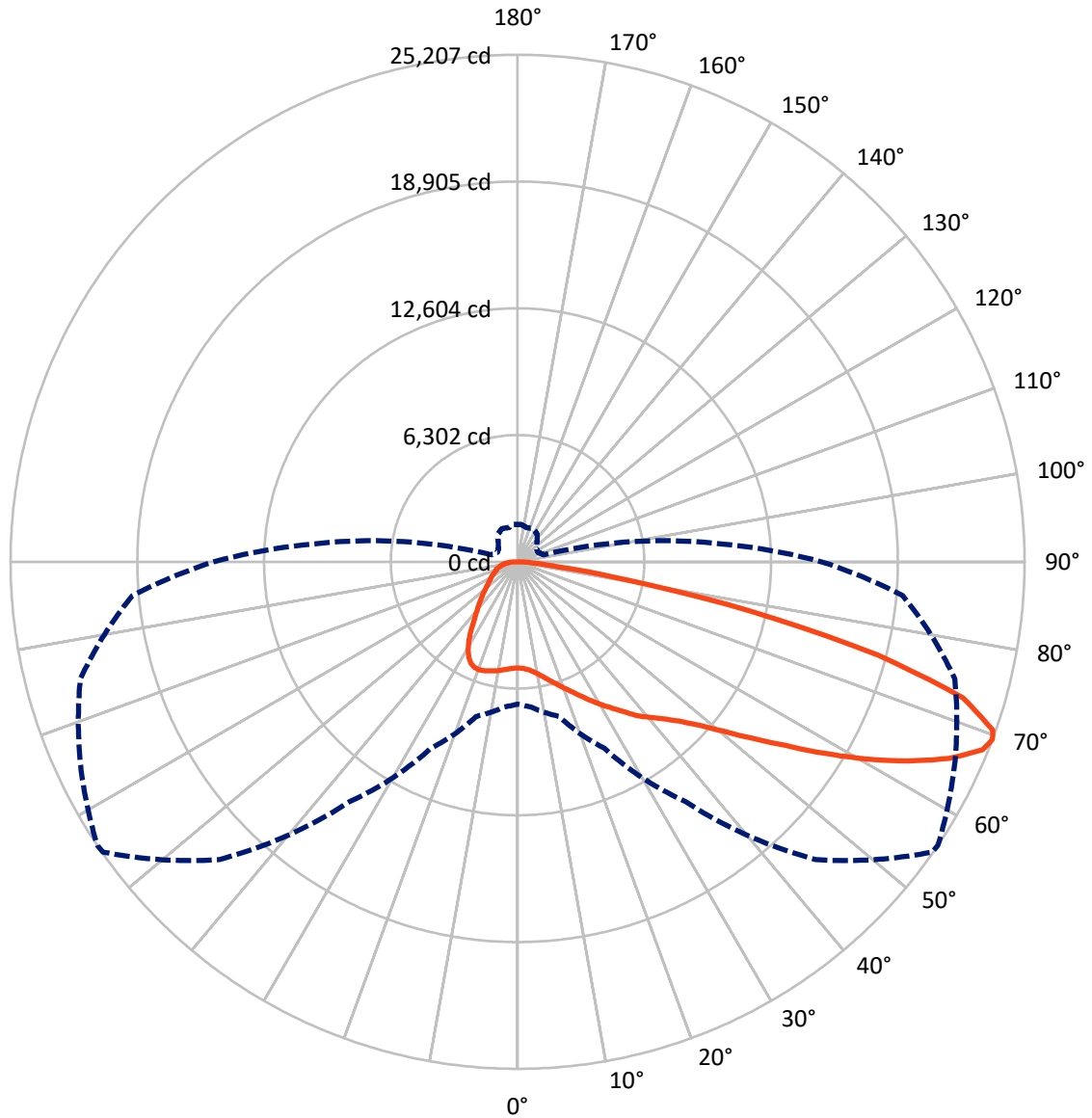
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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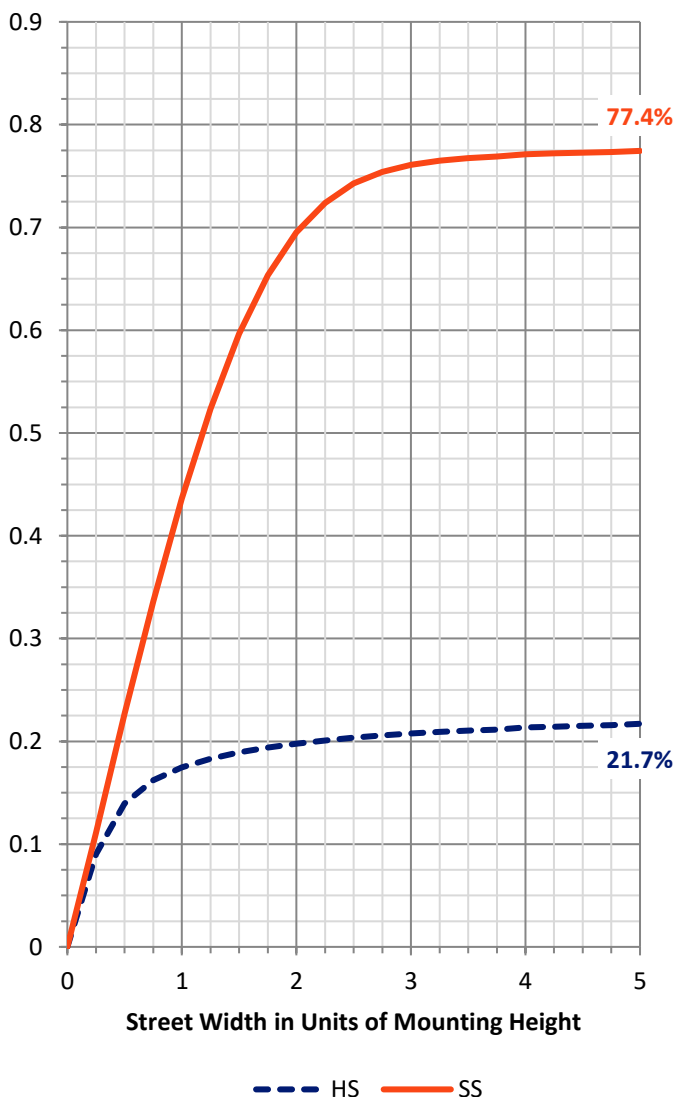
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8986.5 | 0.0 | 8986.5 |
| | % Fixture | 22.3 | 0.0 | 22.3 |
| Street Side | Lumens | 31366.5 | 0.0 | 31366.5 |
| | % Fixture | 77.7 | 0.0 | 77.7 |
| Total | Lumens | 40353.0 | 0.0 | 40353.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 518.1 | 1.3 |
| 10°-20° | 1666.1 | 4.1 |
| 20°-30° | 2908.4 | 7.2 |
| 30°-40° | 4177.9 | 10.4 |
| 40°-50° | 5782.0 | 14.3 |
| 50°-60° | 8471.4 | 21.0 |
| 60°-70° | 10328.2 | 25.6 |
| 70°-80° | 5710.1 | 14.2 |
| 80°-90° | 790.8 | 2.0 |
| 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° | 40353.0 | 100.0 |
| 0°-180° | 40353.0 | 100.0 |

Coefficient of Utilization

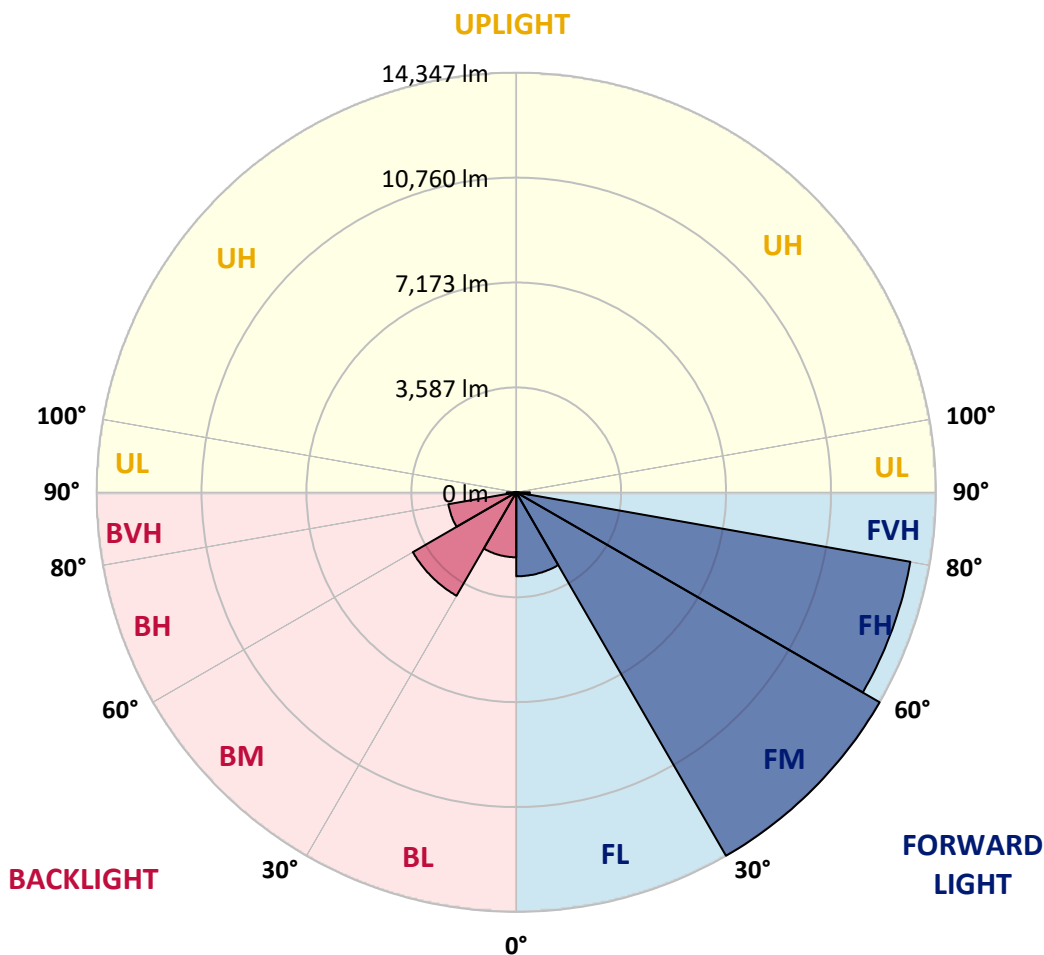


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2871.9 | 7.1 | | | |
| FM (30°-60°) | 14347.0 | 35.6 | | | |
| FH (60°-80°) | 13681.7 | 33.9 | | | G5 |
| FVH (80°-90°) | 465.8 | 1.2 | | | G3/500 |
| BL (0°-30°) | 2220.8 | 5.5 | B3/2500 | | |
| BM (30°-60°) | 4084.2 | 10.1 | B3/5000 | | |
| BH (60°-80°) | 2356.6 | 5.8 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 325.0 | 0.8 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5275.5 | 5275.5 | 5275.5 | 5275.5 | 5275.5 | 5275.5 | 5275.5 | 5275.5 | 5275.5 | 5275.5 | 5275.5 |
| 2.5° | 5308.9 | 5314.5 | 5310.3 | 5321.4 | 5308.9 | 5317.3 | 5310.3 | 5310.3 | 5306.1 | 5293.6 | 5279.7 |
| 5° | 5392.3 | 5403.4 | 5396.5 | 5407.6 | 5392.3 | 5395.1 | 5382.6 | 5382.6 | 5370.1 | 5343.7 | 5315.9 |
| 7.5° | 5523.0 | 5535.5 | 5529.9 | 5541.1 | 5520.2 | 5520.2 | 5503.5 | 5502.1 | 5477.1 | 5434.0 | 5402.0 |
| 10° | 5678.7 | 5695.4 | 5689.8 | 5706.5 | 5689.8 | 5695.4 | 5678.7 | 5678.7 | 5645.3 | 5584.2 | 5543.8 |
| 12.5° | 5905.3 | 5926.1 | 5910.8 | 5909.4 | 5902.5 | 5913.6 | 5899.7 | 5896.9 | 5866.4 | 5782.9 | 5727.3 |
| 15° | 6208.3 | 6230.6 | 6198.6 | 6195.8 | 6156.9 | 6152.7 | 6152.7 | 6148.5 | 6129.1 | 6029.0 | 5937.2 |
| 17.5° | 6557.2 | 6564.2 | 6536.4 | 6491.9 | 6441.9 | 6409.9 | 6405.7 | 6416.8 | 6416.8 | 6300.1 | 6154.1 |
| 20° | 6899.2 | 6911.7 | 6889.5 | 6839.4 | 6775.5 | 6728.2 | 6694.9 | 6717.1 | 6715.7 | 6576.7 | 6369.6 |
| 22.5° | 7271.8 | 7301.0 | 7267.6 | 7203.7 | 7128.6 | 7075.8 | 7017.4 | 7036.8 | 7038.2 | 6867.2 | 6580.9 |
| 25° | 7754.2 | 7727.7 | 7706.9 | 7616.5 | 7509.5 | 7455.3 | 7401.1 | 7420.5 | 7415.0 | 7180.0 | 6799.1 |
| 27.5° | 8180.9 | 8186.5 | 8158.7 | 8062.8 | 7939.0 | 7819.5 | 7816.7 | 7829.2 | 7808.4 | 7505.3 | 7004.9 |
| 30° | 8677.2 | 8680.0 | 8641.1 | 8554.9 | 8420.0 | 8265.7 | 8229.6 | 8250.4 | 8205.9 | 7813.9 | 7221.7 |
| 32.5° | 9170.7 | 9184.6 | 9141.5 | 9037.2 | 8928.8 | 8741.1 | 8668.9 | 8682.8 | 8571.5 | 8129.5 | 7445.5 |
| 35° | 9603.0 | 9622.5 | 9608.6 | 9539.1 | 9420.9 | 9259.7 | 9173.5 | 9165.1 | 9027.5 | 8515.9 | 7741.6 |
| 37.5° | 10043.7 | 10061.8 | 10046.5 | 9988.1 | 9940.8 | 9769.8 | 9724.0 | 9724.0 | 9484.9 | 8910.7 | 8118.4 |
| 40° | 10496.9 | 10524.7 | 10506.6 | 10426.0 | 10385.7 | 10307.8 | 10198.0 | 10171.6 | 9913.0 | 9384.8 | 8732.8 |
| 42.5° | 10918.1 | 10954.2 | 11026.5 | 10979.3 | 10897.2 | 10908.4 | 10687.3 | 10673.4 | 10484.4 | 10085.4 | 9504.3 |
| 45° | 11515.8 | 11568.7 | 11691.0 | 11654.9 | 11638.2 | 11577.0 | 11314.3 | 11301.8 | 11229.5 | 11027.9 | 10462.1 |
| 47.5° | 12167.8 | 12240.1 | 12461.1 | 12468.1 | 12647.4 | 12532.0 | 12174.8 | 12131.7 | 12148.4 | 12156.7 | 11631.2 |
| 50° | 12768.4 | 12847.6 | 13210.4 | 13381.4 | 13804.0 | 13829.0 | 13257.7 | 13218.8 | 13284.1 | 13475.9 | 12993.6 |
| 52.5° | 13247.9 | 13348.0 | 13801.2 | 14329.5 | 15053.7 | 15259.5 | 14590.8 | 14561.6 | 14610.3 | 14941.1 | 14533.8 |
| 55° | 13599.7 | 13708.1 | 14201.6 | 15163.5 | 16320.1 | 16683.0 | 16125.5 | 16097.7 | 16128.3 | 16549.5 | 16208.9 |
| 57.5° | 13681.7 | 13708.1 | 14424.0 | 15725.2 | 17389.1 | 18260.8 | 18003.6 | 17948.0 | 17797.8 | 18164.8 | 18057.8 |
| 60° | 13296.6 | 13402.3 | 14240.5 | 15922.6 | 18216.3 | 19816.3 | 19966.5 | 19896.9 | 19475.7 | 19776.0 | 19689.8 |
| 62.5° | 12515.3 | 12704.4 | 13555.2 | 15622.3 | 18540.2 | 21086.9 | 21891.8 | 21808.4 | 21082.7 | 21277.3 | 20863.1 |
| 65° | 11239.2 | 11319.8 | 12213.7 | 14586.6 | 18128.7 | 21900.1 | 23608.6 | 23566.9 | 22653.6 | 22349.1 | 21079.9 |
| 67.5° | 8956.6 | 9108.1 | 9867.2 | 12422.2 | 16445.3 | 21804.2 | 24936.2 | 24932.0 | 23679.5 | 22746.7 | 20311.2 |
| 69° | 7075.8 | 7232.9 | 7955.7 | 10232.8 | 14551.9 | 20927.0 | 25158.6 | 25207.2 | 23968.6 | 22504.8 | 19213.0 |
| 70° | 5641.2 | 5823.3 | 6319.5 | 8618.8 | 12871.2 | 19770.4 | 24973.7 | 25061.3 | 23913.0 | 22105.9 | 18199.6 |
| 72.5° | 2400.8 | 2548.1 | 2901.2 | 4442.9 | 7844.5 | 14763.2 | 22834.3 | 23165.1 | 22624.4 | 20232.0 | 15041.2 |
| 75° | 1048.2 | 1094.0 | 1253.9 | 1811.3 | 3482.3 | 8035.0 | 17888.2 | 18499.9 | 19345.1 | 17101.4 | 11204.5 |
| 77.5° | 767.4 | 786.8 | 874.4 | 1063.5 | 1562.5 | 3034.7 | 11503.3 | 11859.2 | 13951.4 | 12444.5 | 6872.8 |
| 80° | 593.6 | 607.5 | 675.6 | 781.3 | 1020.4 | 1227.5 | 5246.4 | 5552.2 | 7844.5 | 6391.8 | 2862.3 |
| 82.5° | 472.6 | 482.4 | 529.6 | 575.5 | 704.8 | 743.7 | 1741.8 | 1932.3 | 2895.6 | 1765.5 | 757.6 |
| 85° | 439.3 | 450.4 | 467.1 | 419.8 | 451.8 | 436.5 | 753.5 | 788.2 | 874.4 | 693.7 | 316.9 |
| 87.5° | 198.8 | 234.9 | 462.9 | 326.7 | 240.5 | 191.8 | 308.6 | 322.5 | 362.8 | 364.2 | 140.4 |
| 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° | 5275.5 | 5275.5 | 5275.5 | 5275.5 | 5275.5 | 5275.5 | 5275.5 | 5275.5 | 5275.5 | 5275.5 | 5275.5 |
| 2.5° | 5288.1 | 5283.9 | 5290.8 | 5274.2 | 5295.0 | 5293.6 | 5286.7 | 5289.4 | 5303.3 | 5302.0 | 5303.3 |
| 5° | 5320.0 | 5317.3 | 5325.6 | 5313.1 | 5338.1 | 5346.4 | 5347.8 | 5360.3 | 5375.6 | 5379.8 | 5379.8 |
| 7.5° | 5400.7 | 5400.7 | 5404.8 | 5388.1 | 5404.8 | 5403.4 | 5396.5 | 5409.0 | 5424.3 | 5425.7 | 5424.3 |
| 10° | 5539.7 | 5541.1 | 5534.1 | 5491.0 | 5477.1 | 5439.6 | 5404.8 | 5406.2 | 5425.7 | 5441.0 | 5445.1 |
| 12.5° | 5714.8 | 5709.3 | 5678.7 | 5599.4 | 5541.1 | 5464.6 | 5428.5 | 5427.1 | 5446.5 | 5459.0 | 5463.2 |
| 15° | 5915.0 | 5899.7 | 5820.5 | 5691.2 | 5588.3 | 5513.3 | 5454.9 | 5441.0 | 5429.9 | 5416.0 | 5417.3 |
| 17.5° | 6104.1 | 6069.3 | 5937.2 | 5757.9 | 5649.5 | 5549.4 | 5436.8 | 5346.4 | 5283.9 | 5247.7 | 5236.6 |
| 20° | 6295.9 | 6227.8 | 6037.3 | 5820.5 | 5682.9 | 5500.7 | 5283.9 | 5100.4 | 4986.4 | 4933.6 | 4923.8 |
| 22.5° | 6471.1 | 6361.2 | 6130.5 | 5885.8 | 5656.4 | 5336.7 | 4996.1 | 4729.2 | 4570.8 | 4499.9 | 4505.4 |
| 25° | 6642.0 | 6489.1 | 6227.8 | 5931.7 | 5523.0 | 5047.6 | 4595.8 | 4267.7 | 4084.2 | 4005.0 | 4002.2 |
| 27.5° | 6792.2 | 6618.4 | 6333.4 | 5894.2 | 5274.2 | 4636.1 | 4121.7 | 3802.0 | 3649.1 | 3581.0 | 3569.9 |
| 30° | 6964.6 | 6781.1 | 6473.8 | 5751.0 | 4909.9 | 4160.7 | 3658.8 | 3433.6 | 3325.2 | 3257.1 | 3244.6 |
| 32.5° | 7174.5 | 7002.1 | 6589.2 | 5491.0 | 4444.2 | 3664.4 | 3297.4 | 3140.3 | 3041.6 | 2965.1 | 2951.2 |
| 35° | 7480.3 | 7294.0 | 6618.4 | 5118.5 | 3932.7 | 3272.4 | 3031.9 | 2870.6 | 2737.2 | 2638.5 | 2628.7 |
| 37.5° | 7864.0 | 7659.6 | 6551.7 | 4636.1 | 3436.4 | 3018.0 | 2810.8 | 2612.1 | 2438.3 | 2299.3 | 2277.0 |
| 40° | 8417.2 | 8108.6 | 6366.8 | 4080.0 | 3070.8 | 2822.0 | 2595.4 | 2368.8 | 2153.3 | 1990.7 | 1958.7 |
| 42.5° | 9081.7 | 8635.5 | 6083.2 | 3526.8 | 2802.5 | 2623.2 | 2381.3 | 2100.5 | 1894.7 | 1779.4 | 1762.7 |
| 45° | 9926.9 | 9183.2 | 5689.8 | 3043.0 | 2538.4 | 2424.4 | 2150.5 | 1892.0 | 1764.1 | 1679.3 | 1665.4 |
| 47.5° | 10891.7 | 9797.6 | 5276.9 | 2649.6 | 2314.6 | 2238.1 | 1965.6 | 1798.8 | 1697.4 | 1630.6 | 1618.1 |
| 50° | 12077.5 | 10491.3 | 4839.0 | 2327.1 | 2089.4 | 2014.3 | 1878.1 | 1747.4 | 1666.8 | 1615.3 | 1602.8 |
| 52.5° | 13414.8 | 11274.0 | 4523.5 | 2072.7 | 1903.1 | 1848.9 | 1832.2 | 1719.6 | 1654.3 | 1615.3 | 1602.8 |
| 55° | 14854.9 | 12070.5 | 4182.9 | 1858.6 | 1741.8 | 1757.1 | 1801.6 | 1722.4 | 1677.9 | 1630.6 | 1612.6 |
| 57.5° | 16296.5 | 12893.5 | 3803.4 | 1677.9 | 1613.9 | 1689.0 | 1780.8 | 1727.9 | 1690.4 | 1644.5 | 1627.8 |
| 60° | 17436.4 | 13414.8 | 3215.4 | 1526.4 | 1512.5 | 1613.9 | 1730.7 | 1686.2 | 1637.6 | 1639.0 | 1636.2 |
| 62.5° | 17968.8 | 13387.0 | 2566.2 | 1391.5 | 1411.0 | 1512.5 | 1650.1 | 1620.9 | 1580.6 | 1634.8 | 1639.0 |
| 65° | 17670.0 | 12719.7 | 1997.6 | 1269.2 | 1302.6 | 1406.8 | 1566.7 | 1588.9 | 1602.8 | 1707.1 | 1721.0 |
| 67.5° | 16416.1 | 11421.3 | 1547.2 | 1162.1 | 1203.9 | 1334.5 | 1575.0 | 1730.7 | 1748.8 | 1858.6 | 1857.2 |
| 69° | 15119.1 | 10203.6 | 1344.3 | 1106.5 | 1155.2 | 1352.6 | 1683.4 | 1821.1 | 1753.0 | 1869.7 | 1853.0 |
| 70° | 14032.0 | 9240.2 | 1235.8 | 1069.0 | 1133.0 | 1384.6 | 1755.7 | 1819.7 | 1732.1 | 1832.2 | 1804.4 |
| 72.5° | 10806.9 | 6647.6 | 1048.2 | 999.5 | 1057.9 | 1324.8 | 1776.6 | 1779.4 | 1683.4 | 1702.9 | 1655.6 |
| 75° | 7412.2 | 4201.0 | 914.7 | 905.0 | 943.9 | 1194.1 | 1709.9 | 1700.1 | 1556.9 | 1529.1 | 1490.2 |
| 77.5° | 4087.0 | 2133.9 | 777.1 | 814.6 | 841.0 | 1057.9 | 1554.2 | 1540.3 | 1422.1 | 1363.7 | 1349.8 |
| 80° | 1576.4 | 934.2 | 656.1 | 724.3 | 740.9 | 916.1 | 1362.3 | 1349.8 | 1251.1 | 1176.1 | 1155.2 |
| 82.5° | 595.0 | 489.3 | 542.2 | 626.9 | 621.4 | 756.2 | 1153.8 | 1146.9 | 1050.9 | 941.1 | 907.8 |
| 85° | 275.2 | 293.3 | 429.6 | 517.1 | 476.8 | 560.2 | 923.0 | 935.6 | 818.8 | 688.1 | 688.1 |
| 87.5° | 116.8 | 164.0 | 304.4 | 390.6 | 321.1 | 378.1 | 677.0 | 646.4 | 593.6 | 411.5 | 386.5 |
| 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)