

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: P194005

Luminaire Tested: **GAN-AF-07-LED-U-T3-8030-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-T3-8030-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37696 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
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: 28.75 FT

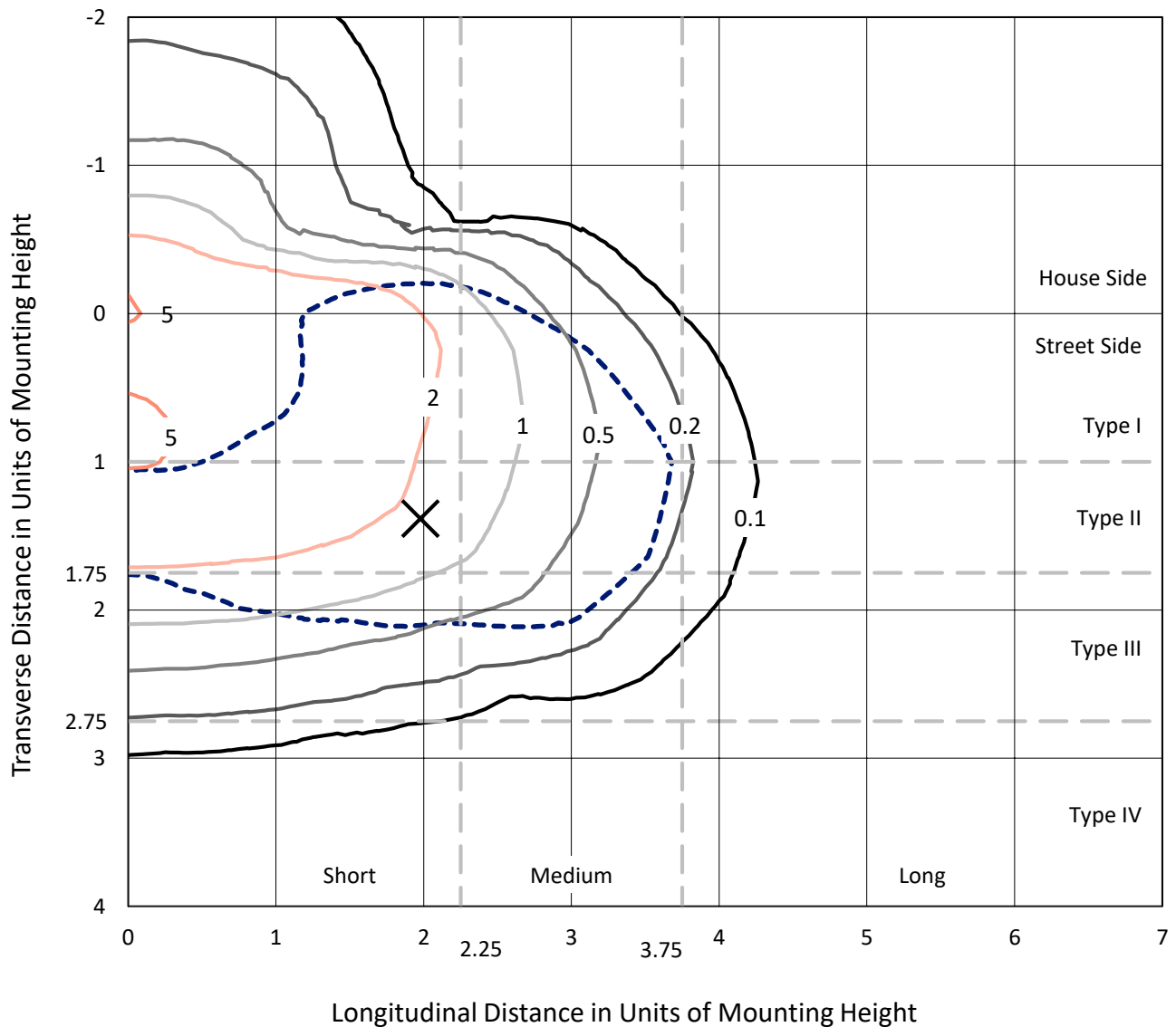


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

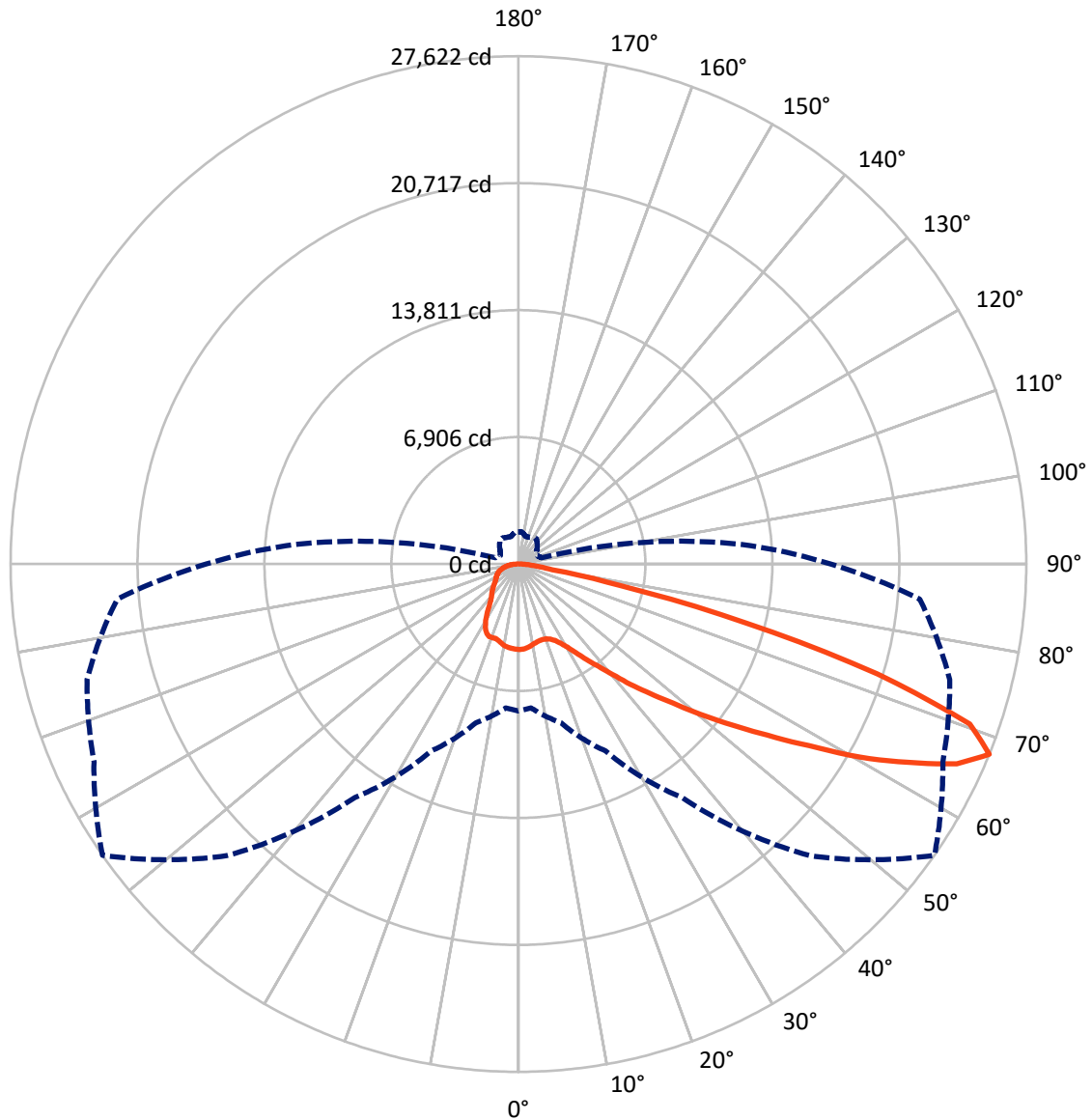


Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8143.1 | 0.0 | 8143.1 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 29552.9 | 0.0 | 29552.9 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 37696.0 | 0.0 | 37696.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 433.9 | 1.2 |
| 10°-20° | 1228.8 | 3.3 |
| 20°-30° | 2058.4 | 5.5 |
| 30°-40° | 3384.9 | 9.0 |
| 40°-50° | 5697.8 | 15.1 |
| 50°-60° | 8967.9 | 23.8 |
| 60°-70° | 10702.2 | 28.4 |
| 70°-80° | 4595.7 | 12.2 |
| 80°-90° | 626.6 | 1.7 |
| 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° | 37696.0 | 100.0 |
| 0°-180° | 37696.0 | 100.0 |



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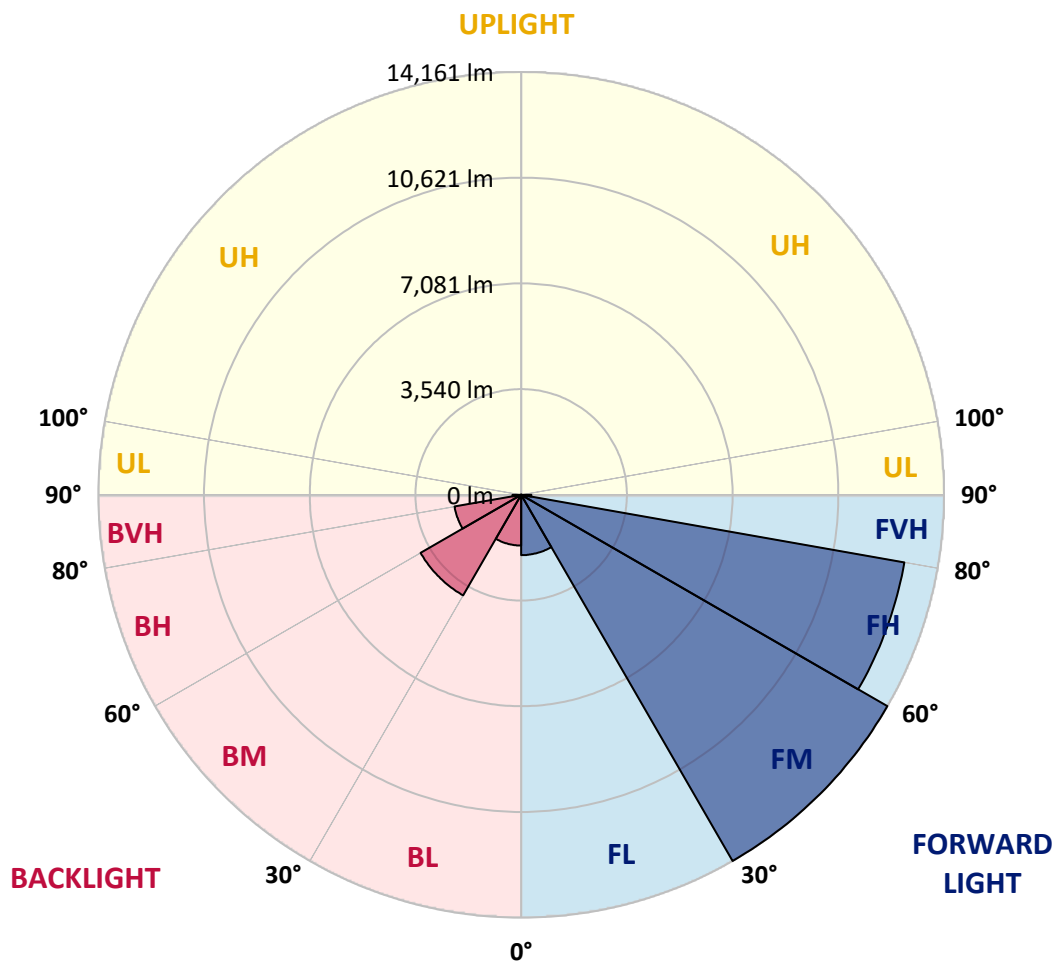
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2020.6 | 5.4 | | | |
| FM | (30°-60°) | 14161.4 | 37.6 | | | |
| FH | (60°-80°) | 13031.7 | 34.6 | | | G5 |
| FVH | (80°-90°) | 339.2 | 0.9 | | | G3/500 |
| BL | (0°-30°) | 1700.4 | 4.5 | B3/2500 | | |
| BM | (30°-60°) | 3889.1 | 10.3 | B3/5000 | | |
| BH | (60°-80°) | 2266.2 | 6.0 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 287.4 | 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° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4648.3 | 4648.3 | 4648.3 | 4648.3 | 4648.3 | 4648.3 | 4648.3 | 4648.3 | 4648.3 | 4648.3 | 4648.3 |
| 2.5° | 4608.3 | 4610.1 | 4613.7 | 4628.3 | 4641.0 | 4637.4 | 4639.2 | 4631.9 | 4630.1 | 4619.2 | 4630.1 |
| 5° | 4550.0 | 4555.5 | 4557.3 | 4581.0 | 4595.5 | 4599.2 | 4593.7 | 4584.6 | 4573.7 | 4562.8 | 4568.2 |
| 7.5° | 4417.1 | 4431.7 | 4433.5 | 4466.3 | 4489.9 | 4520.9 | 4522.7 | 4524.5 | 4519.1 | 4511.8 | 4522.7 |
| 10° | 4333.3 | 4337.0 | 4335.2 | 4358.8 | 4377.0 | 4411.6 | 4431.7 | 4466.3 | 4480.8 | 4484.5 | 4491.7 |
| 12.5° | 4327.9 | 4324.2 | 4318.8 | 4318.8 | 4313.3 | 4327.9 | 4364.3 | 4413.5 | 4448.0 | 4459.0 | 4468.1 |
| 15° | 4386.1 | 4384.3 | 4366.1 | 4338.8 | 4304.2 | 4293.3 | 4324.2 | 4378.9 | 4424.4 | 4448.0 | 4457.2 |
| 17.5° | 4517.2 | 4506.3 | 4477.2 | 4415.3 | 4340.6 | 4311.5 | 4315.1 | 4360.7 | 4413.5 | 4444.4 | 4453.5 |
| 20° | 4757.6 | 4757.6 | 4695.7 | 4579.1 | 4446.2 | 4377.0 | 4344.3 | 4371.6 | 4422.6 | 4464.4 | 4477.2 |
| 22.5° | 5172.7 | 5176.3 | 5072.6 | 4881.4 | 4657.4 | 4510.0 | 4428.0 | 4422.6 | 4482.6 | 4530.0 | 4544.5 |
| 25° | 5760.8 | 5746.2 | 5600.6 | 5327.5 | 4987.0 | 4743.0 | 4601.0 | 4568.2 | 4619.2 | 4672.0 | 4690.2 |
| 27.5° | 6445.4 | 6392.6 | 6219.6 | 5890.1 | 5449.5 | 5092.6 | 4874.1 | 4821.3 | 4870.5 | 4930.5 | 4948.7 |
| 30° | 7122.7 | 7068.1 | 6862.3 | 6501.8 | 6012.1 | 5560.5 | 5247.3 | 5161.8 | 5231.0 | 5316.5 | 5327.5 |
| 32.5° | 7800.0 | 7800.0 | 7570.6 | 7150.0 | 6616.5 | 6119.5 | 5744.4 | 5642.4 | 5757.2 | 5860.9 | 5884.6 |
| 35° | 8610.2 | 8613.9 | 8391.8 | 7885.6 | 7312.1 | 6785.9 | 6372.6 | 6297.9 | 6470.9 | 6543.7 | 6600.2 |
| 37.5° | 9606.2 | 9626.2 | 9340.4 | 8728.6 | 8100.4 | 7546.9 | 7055.3 | 6953.4 | 7126.3 | 7324.8 | 7506.9 |
| 40° | 10682.2 | 10707.7 | 10392.7 | 9639.0 | 9010.8 | 8431.8 | 7900.2 | 7716.3 | 8003.9 | 8382.6 | 8617.5 |
| 42.5° | 11709.1 | 11840.2 | 11536.2 | 10760.5 | 10085.0 | 9486.0 | 8947.1 | 8679.4 | 9039.9 | 9611.6 | 9815.6 |
| 45° | 13193.0 | 13287.7 | 12757.9 | 12055.1 | 11419.6 | 10749.6 | 10035.9 | 9753.7 | 10258.0 | 10979.0 | 11020.9 |
| 47.5° | 14181.7 | 14110.7 | 13841.2 | 13404.2 | 13001.8 | 12375.5 | 11301.3 | 10991.8 | 11661.8 | 12510.2 | 12275.4 |
| 50° | 14707.9 | 14729.7 | 14693.3 | 14718.8 | 14733.4 | 14340.1 | 12852.5 | 12428.3 | 13227.6 | 14252.7 | 13711.9 |
| 52.5° | 15199.5 | 15053.8 | 15174.0 | 15771.2 | 16492.2 | 16346.5 | 14540.4 | 14097.9 | 14906.3 | 16186.3 | 15230.4 |
| 55° | 15188.5 | 14966.4 | 15357.9 | 16412.1 | 17976.1 | 18143.6 | 16435.7 | 15925.9 | 16681.5 | 18260.1 | 16839.9 |
| 57.5° | 14651.4 | 14662.4 | 15265.0 | 16645.1 | 19010.3 | 19833.2 | 18635.2 | 17870.5 | 18564.2 | 20361.2 | 18309.3 |
| 60° | 13912.2 | 14012.4 | 14880.8 | 16606.9 | 19838.7 | 21218.8 | 21333.5 | 19966.1 | 20408.6 | 22271.2 | 19525.5 |
| 62.5° | 12719.6 | 12825.2 | 14023.3 | 16210.0 | 19713.1 | 22553.4 | 23773.3 | 22344.0 | 22336.7 | 23429.2 | 19882.4 |
| 65° | 10838.8 | 10807.9 | 12066.0 | 14726.1 | 18658.9 | 23540.2 | 26196.7 | 24399.6 | 23789.7 | 23447.4 | 19165.0 |
| 67.5° | 7993.0 | 7854.6 | 8934.3 | 11215.7 | 15509.0 | 22435.1 | 27622.3 | 25470.2 | 24284.9 | 21905.2 | 16972.9 |
| 70° | 4147.6 | 4009.3 | 4883.2 | 6549.2 | 10199.7 | 17510.0 | 26043.7 | 24916.7 | 23190.7 | 18362.1 | 13296.8 |
| 72.5° | 1773.4 | 1749.7 | 2104.8 | 2873.1 | 4934.2 | 10099.6 | 20421.3 | 21566.6 | 19898.8 | 13681.0 | 9141.9 |
| 75° | 1192.6 | 1185.3 | 1318.2 | 1565.8 | 2219.5 | 4098.5 | 12779.7 | 15308.7 | 14558.6 | 8482.8 | 5141.7 |
| 77.5° | 935.9 | 926.8 | 1005.0 | 1125.2 | 1438.4 | 1616.8 | 5671.6 | 8218.8 | 7607.0 | 3692.4 | 2250.4 |
| 80° | 731.9 | 724.7 | 773.8 | 839.4 | 1034.2 | 1019.6 | 1866.3 | 3270.0 | 2530.8 | 1414.7 | 1094.3 |
| 82.5° | 577.2 | 577.2 | 617.2 | 619.0 | 733.8 | 695.5 | 974.1 | 1440.2 | 1263.6 | 824.8 | 670.0 |
| 85° | 528.0 | 528.0 | 569.9 | 462.5 | 478.9 | 438.8 | 604.5 | 853.9 | 801.1 | 338.7 | 291.3 |
| 87.5° | 265.8 | 258.5 | 478.9 | 409.7 | 260.4 | 233.1 | 295.0 | 413.3 | 444.3 | 187.5 | 145.7 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4648.3 | 4648.3 | 4648.3 | 4648.3 | 4648.3 | 4648.3 | 4648.3 | 4648.3 | 4648.3 | 4648.3 |
| 2.5° | 4626.5 | 4624.7 | 4628.3 | 4630.1 | 4644.7 | 4664.7 | 4673.8 | 4686.6 | 4693.8 | 4690.2 |
| 5° | 4571.9 | 4575.5 | 4590.1 | 4601.0 | 4626.5 | 4659.3 | 4677.5 | 4692.0 | 4704.8 | 4699.3 |
| 7.5° | 4526.3 | 4535.4 | 4557.3 | 4566.4 | 4581.0 | 4590.1 | 4588.2 | 4593.7 | 4604.6 | 4591.9 |
| 10° | 4500.8 | 4511.8 | 4528.2 | 4515.4 | 4480.8 | 4431.7 | 4386.1 | 4362.5 | 4369.8 | 4360.7 |
| 12.5° | 4475.4 | 4489.9 | 4477.2 | 4417.1 | 4320.6 | 4256.9 | 4222.3 | 4225.9 | 4242.3 | 4245.9 |
| 15° | 4460.8 | 4466.3 | 4411.6 | 4298.7 | 4200.4 | 4191.3 | 4209.5 | 4205.9 | 4207.7 | 4207.7 |
| 17.5° | 4460.8 | 4446.2 | 4344.3 | 4231.4 | 4189.5 | 4173.1 | 4116.7 | 4045.7 | 4014.7 | 4003.8 |
| 20° | 4484.5 | 4446.2 | 4322.4 | 4247.8 | 4156.7 | 4016.5 | 3867.2 | 3736.1 | 3677.9 | 3661.5 |
| 22.5° | 4555.5 | 4489.9 | 4384.3 | 4255.1 | 3996.5 | 3761.6 | 3524.9 | 3368.4 | 3262.8 | 3244.5 |
| 25° | 4699.3 | 4626.5 | 4506.3 | 4158.6 | 3741.6 | 3406.6 | 3137.1 | 2962.3 | 2856.7 | 2842.2 |
| 27.5° | 4950.6 | 4903.2 | 4571.9 | 3945.5 | 3402.9 | 3044.3 | 2794.8 | 2660.1 | 2581.8 | 2576.3 |
| 30° | 5329.3 | 5305.6 | 4539.1 | 3630.5 | 2986.0 | 2692.9 | 2572.7 | 2494.4 | 2436.1 | 2434.3 |
| 32.5° | 5933.8 | 5742.6 | 4431.7 | 3246.4 | 2605.5 | 2443.4 | 2394.3 | 2346.9 | 2301.4 | 2301.4 |
| 35° | 6711.2 | 6095.8 | 4227.7 | 2834.9 | 2374.2 | 2305.0 | 2243.1 | 2168.5 | 2108.4 | 2104.8 |
| 37.5° | 7625.2 | 6314.3 | 3861.8 | 2503.5 | 2265.0 | 2212.2 | 2121.2 | 2010.1 | 1904.5 | 1886.3 |
| 40° | 8548.3 | 6379.8 | 3346.5 | 2299.6 | 2195.8 | 2119.3 | 2008.3 | 1877.2 | 1775.2 | 1769.8 |
| 42.5° | 9395.0 | 6254.2 | 2800.3 | 2159.4 | 2126.6 | 2024.7 | 1908.1 | 1791.6 | 1711.5 | 1709.7 |
| 45° | 10105.1 | 5928.3 | 2341.5 | 2026.5 | 2053.8 | 1939.1 | 1835.3 | 1740.6 | 1678.7 | 1666.0 |
| 47.5° | 10773.3 | 5467.7 | 2019.2 | 1886.3 | 1981.0 | 1891.7 | 1804.3 | 1715.1 | 1655.0 | 1645.9 |
| 50° | 11548.9 | 4970.6 | 1793.4 | 1749.7 | 1917.2 | 1875.4 | 1829.8 | 1737.0 | 1636.8 | 1625.9 |
| 52.5° | 12488.4 | 4540.9 | 1616.8 | 1629.6 | 1868.1 | 1897.2 | 1895.4 | 1798.9 | 1624.1 | 1609.5 |
| 55° | 13537.1 | 4063.9 | 1483.9 | 1531.2 | 1848.0 | 1937.3 | 1911.8 | 1857.1 | 1635.0 | 1613.2 |
| 57.5° | 14569.5 | 3506.7 | 1391.0 | 1456.6 | 1818.9 | 1933.6 | 1833.5 | 1755.2 | 1660.5 | 1629.6 |
| 60° | 15343.3 | 2758.4 | 1320.0 | 1391.0 | 1755.2 | 1873.5 | 1747.9 | 1644.1 | 1655.0 | 1631.4 |
| 62.5° | 15394.3 | 2132.1 | 1234.5 | 1334.6 | 1658.7 | 1813.4 | 1691.5 | 1595.0 | 1678.7 | 1656.9 |
| 65° | 14489.4 | 1611.3 | 1152.5 | 1267.2 | 1554.9 | 1775.2 | 1636.8 | 1567.7 | 1727.9 | 1704.2 |
| 67.5° | 12198.9 | 1296.4 | 1083.3 | 1198.0 | 1451.1 | 1695.1 | 1587.7 | 1542.2 | 1771.6 | 1729.7 |
| 70° | 8806.9 | 1105.2 | 1016.0 | 1114.3 | 1358.3 | 1604.1 | 1544.0 | 1496.6 | 1653.2 | 1587.7 |
| 72.5° | 5422.1 | 957.7 | 939.5 | 1003.2 | 1287.3 | 1509.4 | 1478.4 | 1411.1 | 1489.4 | 1436.6 |
| 75° | 2707.4 | 830.3 | 853.9 | 894.0 | 1187.1 | 1402.0 | 1369.2 | 1301.8 | 1312.7 | 1301.8 |
| 77.5° | 1296.4 | 710.1 | 753.8 | 784.7 | 1057.8 | 1280.0 | 1245.4 | 1176.2 | 1163.4 | 1165.3 |
| 80° | 821.2 | 593.6 | 635.4 | 657.3 | 945.0 | 1138.0 | 1103.4 | 1034.2 | 1179.8 | 1094.3 |
| 82.5° | 513.4 | 482.5 | 493.4 | 533.5 | 823.0 | 990.5 | 945.0 | 883.1 | 1063.3 | 841.2 |
| 85° | 284.0 | 336.8 | 351.4 | 386.0 | 633.6 | 828.4 | 782.9 | 704.6 | 631.8 | 620.9 |
| 87.5° | 169.3 | 200.3 | 205.7 | 231.2 | 426.1 | 599.0 | 529.8 | 502.5 | 416.9 | 415.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)