

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: P192238

Luminaire Tested: **GAN-AF-10-LED-U-T3-7050-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192238
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-10-LED-U-T3-7050-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38827 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 323
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

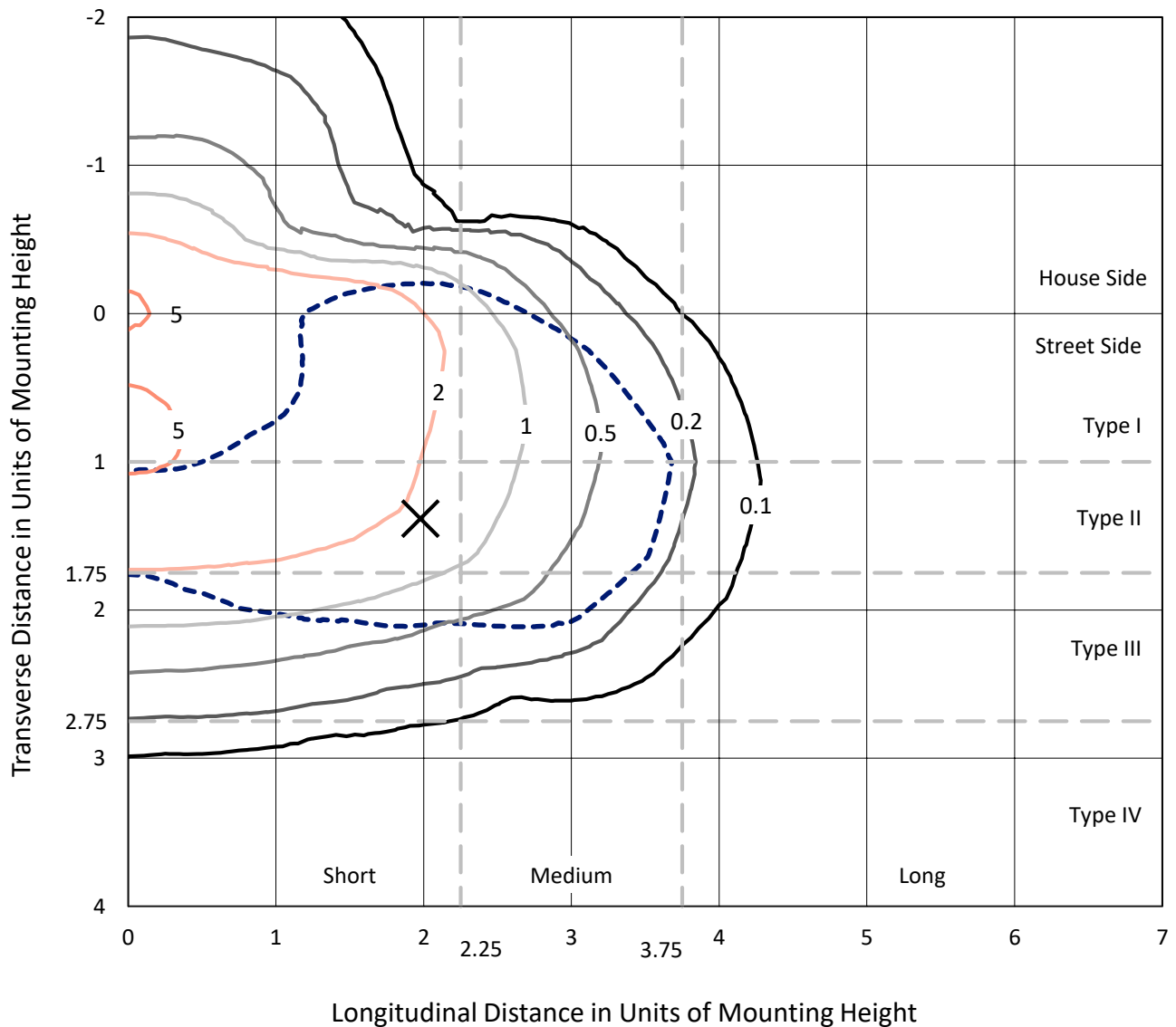


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

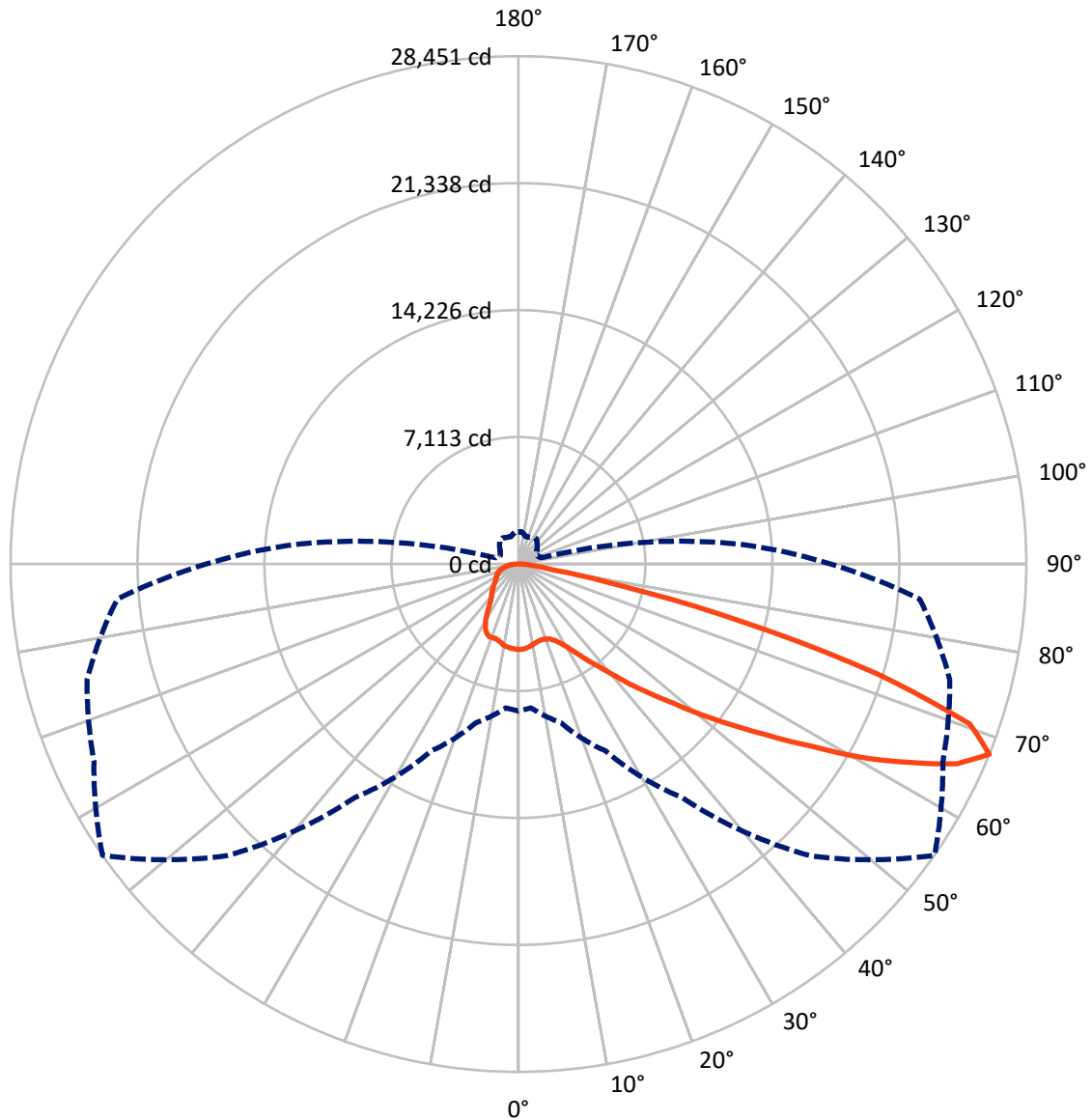


Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - Full Cutoff

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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 | 8387.5 | 0.0 | 8387.5 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 30439.5 | 0.0 | 30439.5 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 38827.0 | 0.0 | 38827.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 446.9 | 1.2 |
| 10°-20° | 1265.7 | 3.3 |
| 20°-30° | 2120.1 | 5.5 |
| 30°-40° | 3486.4 | 9.0 |
| 40°-50° | 5868.7 | 15.1 |
| 50°-60° | 9236.9 | 23.8 |
| 60°-70° | 11023.3 | 28.4 |
| 70°-80° | 4733.6 | 12.2 |
| 80°-90° | 645.4 | 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° | 38827.0 | 100.0 |
| 0°-180° | 38827.0 | 100.0 |

Coefficient of Utilization



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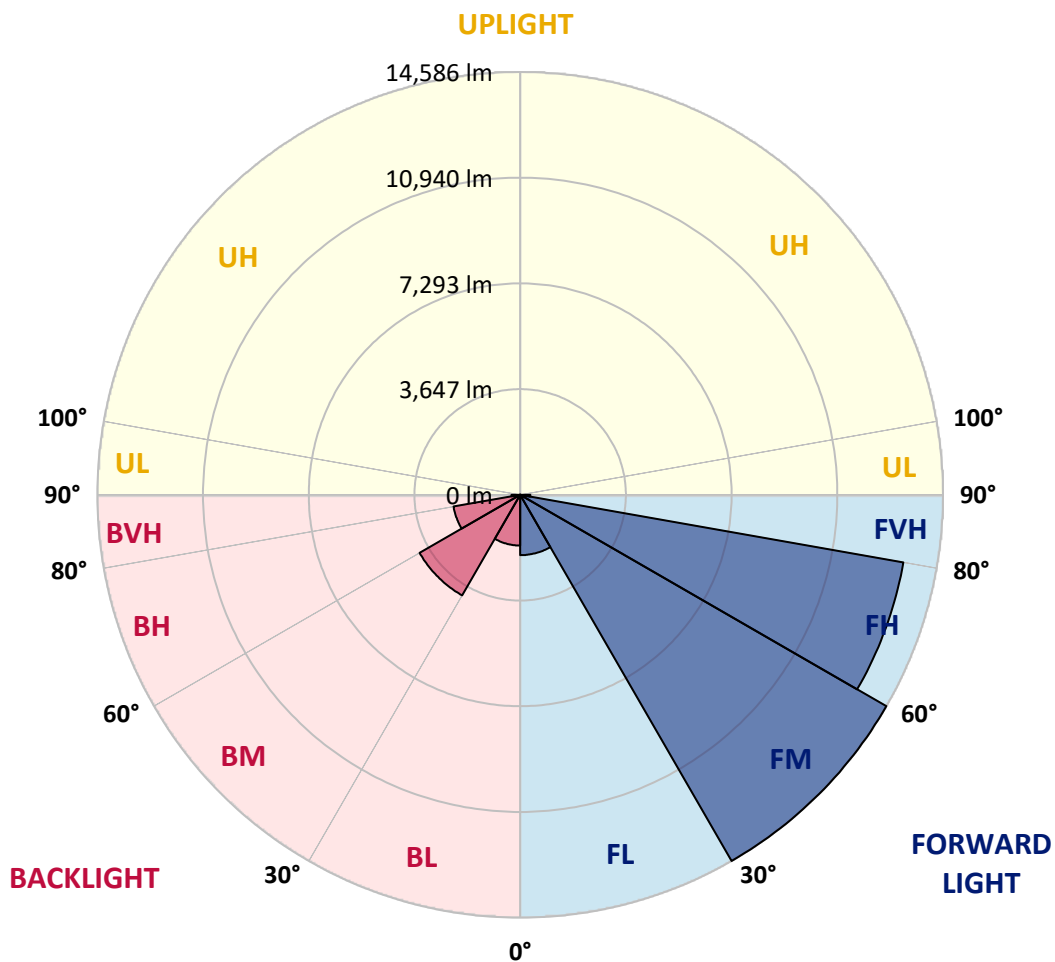
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2081.2 | 5.4 | | | |
| FM | (30°-60°) | 14586.3 | 37.6 | | | |
| FH | (60°-80°) | 13422.7 | 34.6 | | | G5 |
| FVH | (80°-90°) | 349.4 | 0.9 | | | G3/500 |
| BL | (0°-30°) | 1751.5 | 4.5 | B3/2500 | | |
| BM | (30°-60°) | 4005.8 | 10.3 | B3/5000 | | |
| BH | (60°-80°) | 2334.2 | 6.0 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 296.0 | 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° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4787.8 | 4787.8 | 4787.8 | 4787.8 | 4787.8 | 4787.8 | 4787.8 | 4787.8 | 4787.8 | 4787.8 | 4787.8 |
| 2.5° | 4746.5 | 4748.4 | 4752.2 | 4767.2 | 4780.3 | 4776.5 | 4778.4 | 4770.9 | 4769.0 | 4757.8 | 4769.0 |
| 5° | 4686.5 | 4692.1 | 4694.0 | 4718.4 | 4733.4 | 4737.2 | 4731.5 | 4722.2 | 4710.9 | 4699.7 | 4705.3 |
| 7.5° | 4549.6 | 4564.6 | 4566.5 | 4600.3 | 4624.6 | 4656.5 | 4658.4 | 4660.3 | 4654.6 | 4647.1 | 4658.4 |
| 10° | 4463.4 | 4467.1 | 4465.2 | 4489.6 | 4508.4 | 4544.0 | 4564.6 | 4600.3 | 4615.3 | 4619.0 | 4626.5 |
| 12.5° | 4457.7 | 4454.0 | 4448.4 | 4448.4 | 4442.7 | 4457.7 | 4495.2 | 4545.9 | 4581.5 | 4592.8 | 4602.1 |
| 15° | 4517.7 | 4515.9 | 4497.1 | 4469.0 | 4433.4 | 4422.1 | 4454.0 | 4510.2 | 4557.1 | 4581.5 | 4590.9 |
| 17.5° | 4652.8 | 4641.5 | 4611.5 | 4547.7 | 4470.9 | 4440.9 | 4444.6 | 4491.5 | 4545.9 | 4577.8 | 4587.1 |
| 20° | 4900.3 | 4900.3 | 4836.6 | 4716.5 | 4579.6 | 4508.4 | 4474.6 | 4502.7 | 4555.2 | 4598.4 | 4611.5 |
| 22.5° | 5327.9 | 5331.6 | 5224.8 | 5027.8 | 4797.2 | 4645.3 | 4560.9 | 4555.2 | 4617.1 | 4665.9 | 4680.9 |
| 25° | 5933.6 | 5918.6 | 5768.6 | 5487.3 | 5136.6 | 4885.3 | 4739.0 | 4705.3 | 4757.8 | 4812.2 | 4830.9 |
| 27.5° | 6638.8 | 6584.4 | 6406.2 | 6066.8 | 5613.0 | 5245.4 | 5020.3 | 4966.0 | 5016.6 | 5078.5 | 5097.2 |
| 30° | 7336.4 | 7280.1 | 7068.2 | 6696.9 | 6192.4 | 5727.3 | 5404.8 | 5316.6 | 5387.9 | 5476.1 | 5487.3 |
| 32.5° | 8034.0 | 8034.0 | 7797.7 | 7364.5 | 6815.1 | 6303.1 | 5916.8 | 5811.7 | 5929.9 | 6036.8 | 6061.2 |
| 35° | 8868.6 | 8872.3 | 8643.5 | 8122.2 | 7531.4 | 6989.5 | 6563.8 | 6486.9 | 6665.0 | 6740.0 | 6798.2 |
| 37.5° | 9894.4 | 9915.0 | 9620.6 | 8990.5 | 8343.5 | 7773.4 | 7267.0 | 7162.0 | 7340.2 | 7544.6 | 7732.1 |
| 40° | 11002.7 | 11029.0 | 10704.6 | 9928.2 | 9281.2 | 8684.8 | 8137.2 | 7947.8 | 8244.1 | 8634.2 | 8876.1 |
| 42.5° | 12060.4 | 12195.5 | 11882.3 | 11083.4 | 10387.6 | 9770.6 | 9215.5 | 8939.8 | 9311.2 | 9900.0 | 10110.1 |
| 45° | 13588.9 | 13686.4 | 13140.6 | 12416.8 | 11762.3 | 11072.1 | 10337.0 | 10046.3 | 10565.8 | 11308.4 | 11351.6 |
| 47.5° | 14607.2 | 14534.0 | 14256.5 | 13806.4 | 13391.9 | 12746.8 | 11640.4 | 11321.5 | 12011.7 | 12885.6 | 12643.7 |
| 50° | 15149.2 | 15171.7 | 15134.2 | 15160.4 | 15175.4 | 14770.3 | 13238.2 | 12801.2 | 13624.5 | 14680.3 | 14123.3 |
| 52.5° | 15655.5 | 15505.5 | 15629.2 | 16244.4 | 16987.0 | 16837.0 | 14976.6 | 14520.9 | 15353.6 | 16671.9 | 15687.4 |
| 55° | 15644.3 | 15415.5 | 15818.7 | 16904.5 | 18515.4 | 18688.0 | 16928.9 | 16403.8 | 17182.0 | 18808.0 | 17345.2 |
| 57.5° | 15091.0 | 15102.3 | 15723.0 | 17144.5 | 19580.6 | 20428.3 | 19194.3 | 18406.7 | 19121.2 | 20972.1 | 18858.6 |
| 60° | 14329.6 | 14432.8 | 15327.3 | 17105.2 | 20433.9 | 21855.4 | 21973.6 | 20565.2 | 21020.9 | 22939.4 | 20111.4 |
| 62.5° | 13101.3 | 13210.0 | 14444.0 | 16696.3 | 20304.5 | 23230.1 | 24486.6 | 23014.4 | 23006.9 | 24132.1 | 20478.9 |
| 65° | 11164.0 | 11132.1 | 12428.0 | 15167.9 | 19218.7 | 24246.5 | 26982.7 | 25131.7 | 24503.4 | 24150.9 | 19740.0 |
| 67.5° | 8232.8 | 8090.3 | 9202.4 | 11552.2 | 15974.3 | 23108.2 | 28451.1 | 26234.4 | 25013.5 | 22562.5 | 17482.1 |
| 70° | 4272.1 | 4129.5 | 5029.7 | 6745.7 | 10505.8 | 18035.3 | 26825.1 | 25664.3 | 23886.5 | 18913.0 | 13695.8 |
| 72.5° | 1826.6 | 1802.2 | 2167.9 | 2959.3 | 5082.2 | 10402.6 | 21034.0 | 22213.6 | 20495.8 | 14091.5 | 9416.2 |
| 75° | 1228.4 | 1220.9 | 1357.8 | 1612.8 | 2286.1 | 4221.4 | 13163.1 | 15768.0 | 14995.4 | 8737.3 | 5296.0 |
| 77.5° | 963.9 | 954.6 | 1035.2 | 1159.0 | 1481.5 | 1665.3 | 5841.7 | 8465.4 | 7835.3 | 3803.2 | 2317.9 |
| 80° | 753.9 | 746.4 | 797.0 | 864.5 | 1065.2 | 1050.2 | 1922.2 | 3368.1 | 2606.7 | 1457.2 | 1127.1 |
| 82.5° | 594.5 | 594.5 | 635.7 | 637.6 | 755.8 | 716.4 | 1003.3 | 1483.4 | 1301.5 | 849.5 | 690.1 |
| 85° | 543.9 | 543.9 | 587.0 | 476.3 | 493.2 | 452.0 | 622.6 | 879.5 | 825.2 | 348.8 | 300.1 |
| 87.5° | 273.8 | 266.3 | 493.2 | 422.0 | 268.2 | 240.0 | 303.8 | 425.7 | 457.6 | 193.2 | 150.0 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4787.8 | 4787.8 | 4787.8 | 4787.8 | 4787.8 | 4787.8 | 4787.8 | 4787.8 | 4787.8 | 4787.8 |
| 2.5° | 4765.3 | 4763.4 | 4767.2 | 4769.0 | 4784.0 | 4804.7 | 4814.0 | 4827.2 | 4834.7 | 4830.9 |
| 5° | 4709.0 | 4712.8 | 4727.8 | 4739.0 | 4765.3 | 4799.0 | 4817.8 | 4832.8 | 4845.9 | 4840.3 |
| 7.5° | 4662.1 | 4671.5 | 4694.0 | 4703.4 | 4718.4 | 4727.8 | 4725.9 | 4731.5 | 4742.8 | 4729.7 |
| 10° | 4635.9 | 4647.1 | 4664.0 | 4650.9 | 4615.3 | 4564.6 | 4517.7 | 4493.4 | 4500.9 | 4491.5 |
| 12.5° | 4609.6 | 4624.6 | 4611.5 | 4549.6 | 4450.2 | 4384.6 | 4349.0 | 4352.7 | 4369.6 | 4373.3 |
| 15° | 4594.6 | 4600.3 | 4544.0 | 4427.7 | 4326.5 | 4317.1 | 4335.8 | 4332.1 | 4334.0 | 4334.0 |
| 17.5° | 4594.6 | 4579.6 | 4474.6 | 4358.3 | 4315.2 | 4298.3 | 4240.2 | 4167.0 | 4135.2 | 4123.9 |
| 20° | 4619.0 | 4579.6 | 4452.1 | 4375.2 | 4281.4 | 4137.0 | 3983.3 | 3848.2 | 3788.2 | 3771.3 |
| 22.5° | 4692.1 | 4624.6 | 4515.9 | 4382.7 | 4116.4 | 3874.5 | 3630.7 | 3469.4 | 3360.6 | 3341.9 |
| 25° | 4840.3 | 4765.3 | 4641.5 | 4283.3 | 3853.9 | 3508.8 | 3231.2 | 3051.2 | 2942.4 | 2927.4 |
| 27.5° | 5099.1 | 5050.3 | 4709.0 | 4063.9 | 3505.0 | 3135.6 | 2878.7 | 2739.9 | 2659.3 | 2653.6 |
| 30° | 5489.2 | 5464.8 | 4675.3 | 3739.5 | 3075.6 | 2773.7 | 2649.9 | 2569.2 | 2509.2 | 2507.4 |
| 32.5° | 6111.8 | 5914.9 | 4564.6 | 3343.8 | 2683.6 | 2516.7 | 2466.1 | 2417.3 | 2370.5 | 2370.5 |
| 35° | 6912.6 | 6278.7 | 4354.6 | 2919.9 | 2445.5 | 2374.2 | 2310.4 | 2233.6 | 2171.7 | 2167.9 |
| 37.5° | 7854.0 | 6503.7 | 3977.6 | 2578.6 | 2332.9 | 2278.6 | 2184.8 | 2070.4 | 1961.6 | 1942.9 |
| 40° | 8804.8 | 6571.3 | 3446.9 | 2368.6 | 2261.7 | 2182.9 | 2068.5 | 1933.5 | 1828.5 | 1822.8 |
| 42.5° | 9676.9 | 6441.9 | 2884.3 | 2224.2 | 2190.4 | 2085.4 | 1965.4 | 1845.4 | 1762.8 | 1761.0 |
| 45° | 10408.2 | 6106.2 | 2411.7 | 2087.3 | 2115.4 | 1997.3 | 1890.4 | 1792.8 | 1729.1 | 1716.0 |
| 47.5° | 11096.5 | 5631.7 | 2079.8 | 1942.9 | 2040.4 | 1948.5 | 1858.5 | 1766.6 | 1704.7 | 1695.3 |
| 50° | 11895.4 | 5119.7 | 1847.2 | 1802.2 | 1974.8 | 1931.6 | 1884.7 | 1789.1 | 1685.9 | 1674.7 |
| 52.5° | 12863.1 | 4677.1 | 1665.3 | 1678.4 | 1924.1 | 1954.1 | 1952.2 | 1852.9 | 1672.8 | 1657.8 |
| 55° | 13943.3 | 4185.8 | 1528.4 | 1577.2 | 1903.5 | 1995.4 | 1969.1 | 1912.9 | 1684.1 | 1661.6 |
| 57.5° | 15006.6 | 3611.9 | 1432.8 | 1500.3 | 1873.5 | 1991.6 | 1888.5 | 1807.8 | 1710.3 | 1678.4 |
| 60° | 15803.7 | 2841.2 | 1359.6 | 1432.8 | 1807.8 | 1929.7 | 1800.3 | 1693.4 | 1704.7 | 1680.3 |
| 62.5° | 15856.2 | 2196.0 | 1271.5 | 1374.6 | 1708.5 | 1867.9 | 1742.2 | 1642.8 | 1729.1 | 1706.6 |
| 65° | 14924.1 | 1659.7 | 1187.1 | 1305.3 | 1601.6 | 1828.5 | 1685.9 | 1614.7 | 1779.7 | 1755.3 |
| 67.5° | 12564.9 | 1335.3 | 1115.8 | 1234.0 | 1494.7 | 1746.0 | 1635.3 | 1588.4 | 1824.7 | 1781.6 |
| 70° | 9071.1 | 1138.3 | 1046.5 | 1147.7 | 1399.0 | 1652.2 | 1590.3 | 1541.5 | 1702.8 | 1635.3 |
| 72.5° | 5584.8 | 986.4 | 967.7 | 1033.3 | 1325.9 | 1554.7 | 1522.8 | 1453.4 | 1534.0 | 1479.7 |
| 75° | 2788.7 | 855.2 | 879.5 | 920.8 | 1222.7 | 1444.0 | 1410.3 | 1340.9 | 1352.1 | 1340.9 |
| 77.5° | 1335.3 | 731.4 | 776.4 | 808.3 | 1089.6 | 1318.4 | 1282.7 | 1211.5 | 1198.4 | 1200.2 |
| 80° | 845.8 | 611.4 | 654.5 | 677.0 | 973.3 | 1172.1 | 1136.5 | 1065.2 | 1215.2 | 1127.1 |
| 82.5° | 528.9 | 497.0 | 508.2 | 549.5 | 847.7 | 1020.2 | 973.3 | 909.5 | 1095.2 | 866.4 |
| 85° | 292.6 | 346.9 | 361.9 | 397.6 | 652.6 | 853.3 | 806.4 | 725.8 | 650.7 | 639.5 |
| 87.5° | 174.4 | 206.3 | 211.9 | 238.2 | 438.8 | 617.0 | 545.7 | 517.6 | 429.5 | 427.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)