

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: P193178

Luminaire Tested: **GAN-AF-10-LED-U-T3-7030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193178
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-T3-7030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37552.4 lumens
Efficiency: N/A
Efficacy: 116.3 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

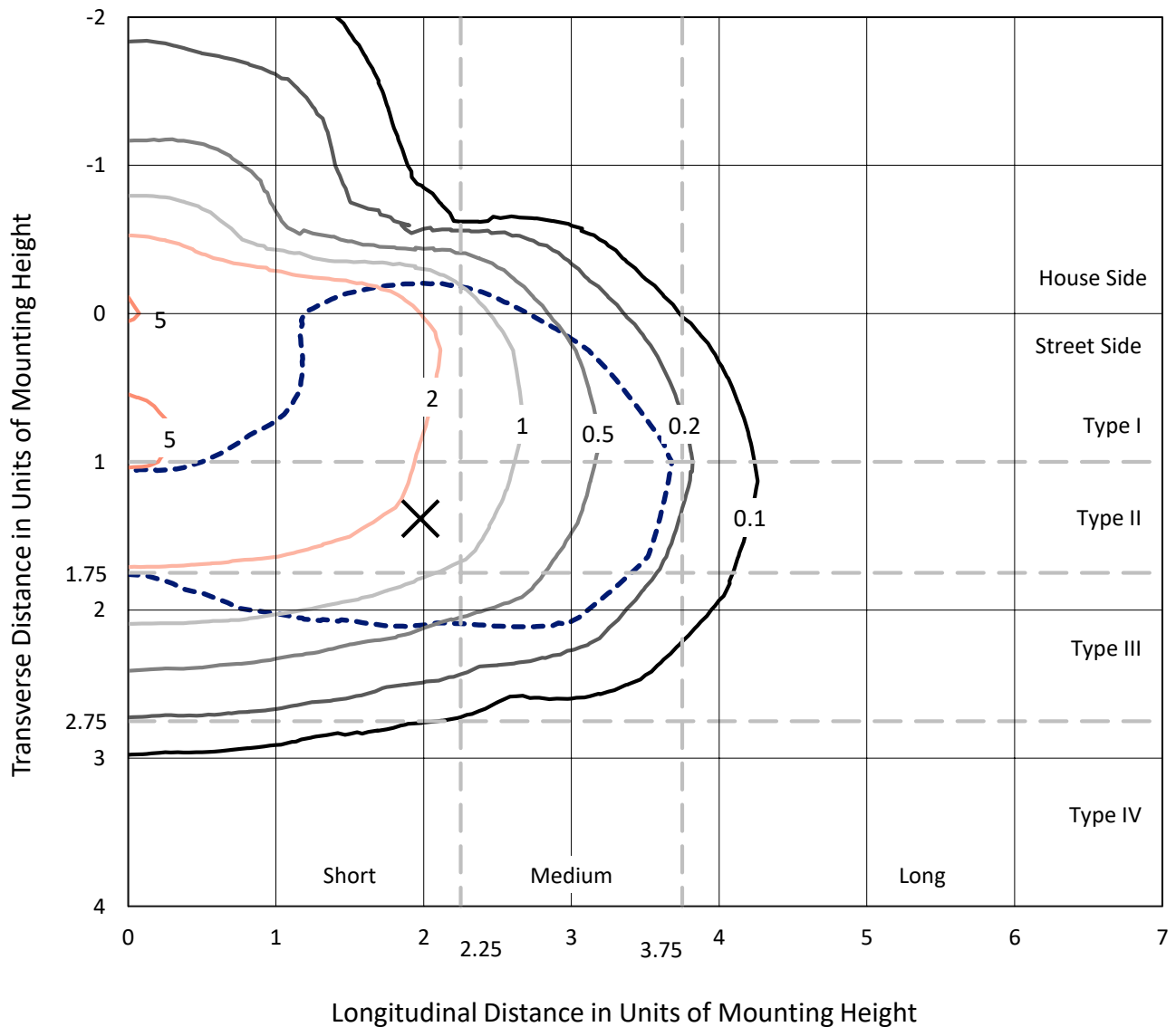


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

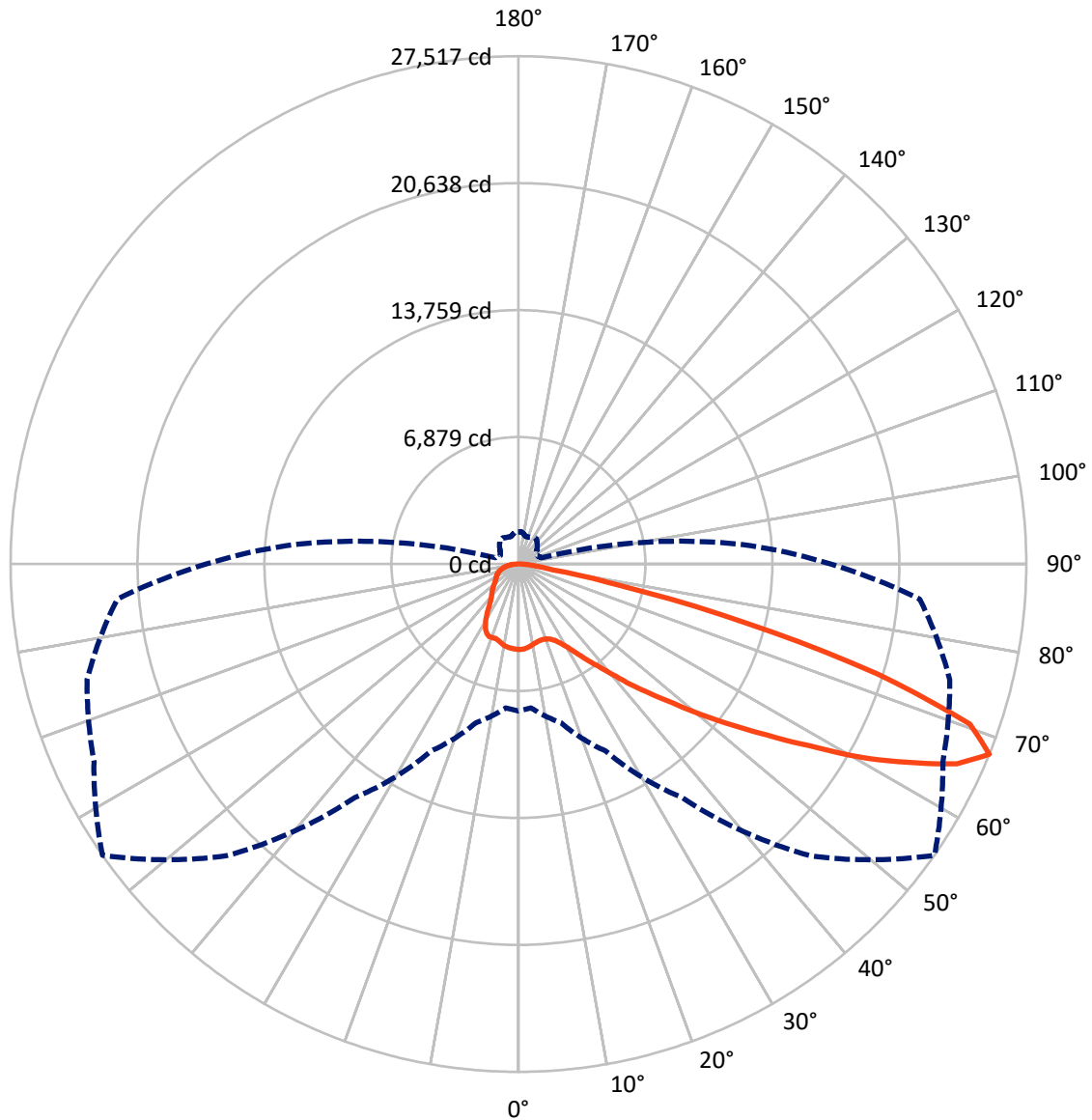


Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - Full Cutoff

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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 | 8112.1 | 0.0 | 8112.1 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 29440.3 | 0.0 | 29440.3 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 37552.4 | 0.0 | 37552.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 432.2 | 1.2 |
| 10°-20° | 1224.1 | 3.3 |
| 20°-30° | 2050.5 | 5.5 |
| 30°-40° | 3372.0 | 9.0 |
| 40°-50° | 5676.1 | 15.1 |
| 50°-60° | 8933.7 | 23.8 |
| 60°-70° | 10661.4 | 28.4 |
| 70°-80° | 4578.2 | 12.2 |
| 80°-90° | 624.2 | 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° | 37552.4 | 100.0 |
| 0°-180° | 37552.4 | 100.0 |



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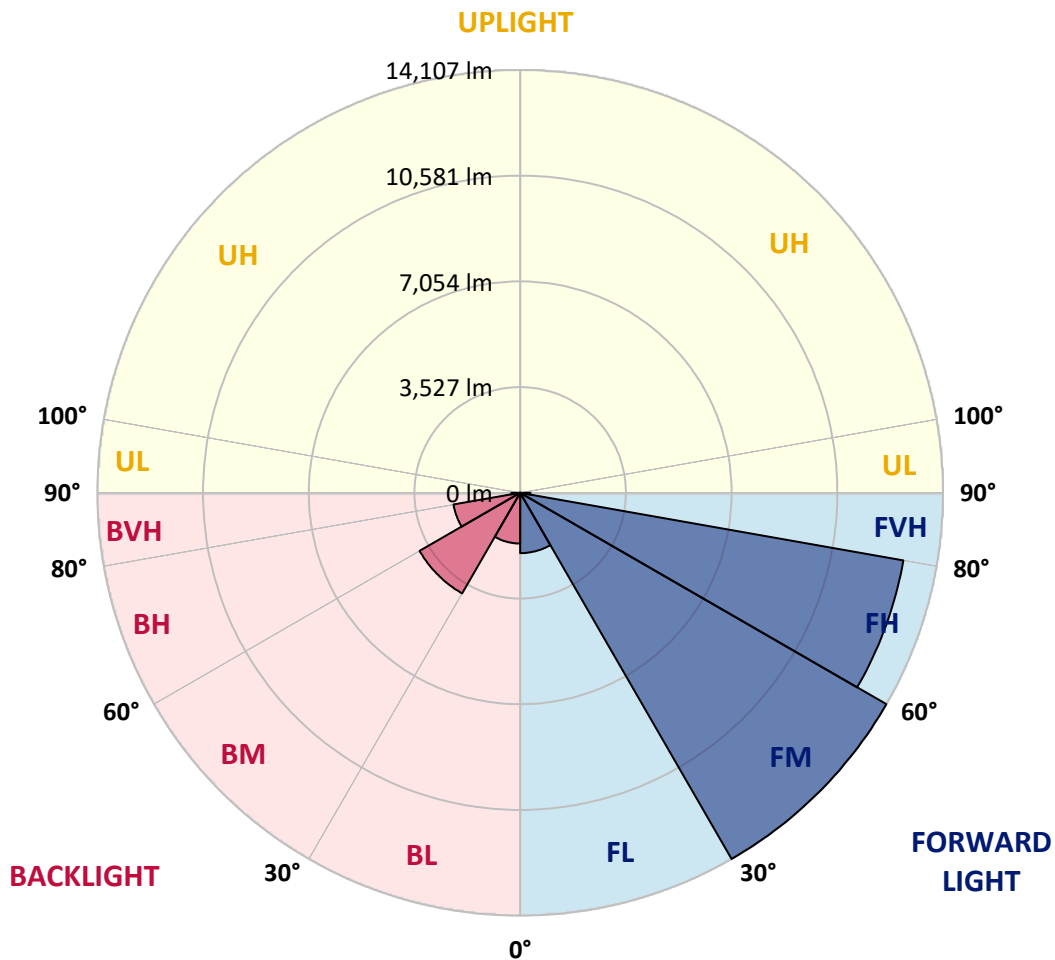
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2012.9 | 5.4 | | | |
| FM | (30°-60°) | 14107.4 | 37.6 | | | |
| FH | (60°-80°) | 12982.0 | 34.6 | | | G5 |
| FVH | (80°-90°) | 337.9 | 0.9 | | | G3/500 |
| BL | (0°-30°) | 1694.0 | 4.5 | B3/2500 | | |
| BM | (30°-60°) | 3874.3 | 10.3 | B3/5000 | | |
| BH | (60°-80°) | 2257.6 | 6.0 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 286.3 | 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° | 4630.6 | 4630.6 | 4630.6 | 4630.6 | 4630.6 | 4630.6 | 4630.6 | 4630.6 | 4630.6 | 4630.6 | 4630.6 |
| 2.5° | 4590.7 | 4592.5 | 4596.2 | 4610.6 | 4623.5 | 4619.7 | 4621.5 | 4614.3 | 4612.5 | 4601.6 | 4612.5 |
| 5° | 4532.7 | 4538.1 | 4539.9 | 4563.5 | 4578.1 | 4581.7 | 4576.3 | 4567.1 | 4556.2 | 4545.4 | 4550.8 |
| 7.5° | 4400.3 | 4414.7 | 4416.6 | 4449.2 | 4472.8 | 4503.6 | 4505.6 | 4507.3 | 4501.8 | 4494.6 | 4505.6 |
| 10° | 4316.9 | 4320.4 | 4318.7 | 4342.2 | 4360.3 | 4394.9 | 4414.7 | 4449.2 | 4463.8 | 4467.4 | 4474.6 |
| 12.5° | 4311.4 | 4307.8 | 4302.3 | 4302.3 | 4296.8 | 4311.4 | 4347.7 | 4396.6 | 4431.1 | 4441.9 | 4451.0 |
| 15° | 4369.4 | 4367.6 | 4349.5 | 4322.3 | 4287.8 | 4277.0 | 4307.8 | 4362.1 | 4407.5 | 4431.1 | 4440.2 |
| 17.5° | 4500.1 | 4489.1 | 4460.1 | 4398.4 | 4324.1 | 4295.1 | 4298.7 | 4344.0 | 4396.6 | 4427.5 | 4436.6 |
| 20° | 4739.4 | 4739.4 | 4677.8 | 4561.7 | 4429.3 | 4360.3 | 4327.8 | 4355.0 | 4405.7 | 4447.4 | 4460.1 |
| 22.5° | 5153.0 | 5156.6 | 5053.2 | 4862.8 | 4639.7 | 4492.7 | 4411.2 | 4405.7 | 4465.5 | 4512.7 | 4527.2 |
| 25° | 5738.9 | 5724.3 | 5579.3 | 5307.2 | 4968.0 | 4724.9 | 4583.4 | 4550.8 | 4601.6 | 4654.2 | 4672.4 |
| 27.5° | 6420.8 | 6368.2 | 6195.9 | 5867.7 | 5428.6 | 5073.2 | 4855.5 | 4802.9 | 4851.8 | 4911.8 | 4929.9 |
| 30° | 7095.7 | 7041.1 | 6836.3 | 6477.1 | 5989.1 | 5539.3 | 5227.4 | 5142.1 | 5211.0 | 5296.3 | 5307.2 |
| 32.5° | 7770.3 | 7770.3 | 7541.7 | 7122.8 | 6591.3 | 6096.1 | 5722.6 | 5621.0 | 5735.2 | 5838.6 | 5862.2 |
| 35° | 8577.4 | 8581.1 | 8359.8 | 7855.5 | 7284.2 | 6760.0 | 6348.3 | 6273.8 | 6446.2 | 6518.7 | 6575.0 |
| 37.5° | 9569.6 | 9589.5 | 9304.7 | 8695.3 | 8069.6 | 7518.2 | 7028.4 | 6926.9 | 7099.2 | 7296.9 | 7478.2 |
| 40° | 10641.6 | 10667.0 | 10353.2 | 9602.2 | 8976.5 | 8399.8 | 7870.1 | 7686.8 | 7973.4 | 8350.6 | 8584.7 |
| 42.5° | 11664.5 | 11795.1 | 11492.2 | 10719.5 | 10046.6 | 9449.9 | 8913.1 | 8646.3 | 9005.4 | 9575.1 | 9778.1 |
| 45° | 13142.8 | 13237.1 | 12709.2 | 12009.1 | 11376.2 | 10708.6 | 9997.7 | 9716.5 | 10218.9 | 10937.2 | 10978.9 |
| 47.5° | 14127.7 | 14057.0 | 13788.5 | 13353.1 | 12952.3 | 12328.4 | 11258.2 | 10949.9 | 11617.3 | 12462.5 | 12228.7 |
| 50° | 14651.8 | 14673.6 | 14637.4 | 14662.7 | 14677.3 | 14285.4 | 12803.5 | 12380.9 | 13177.2 | 14198.4 | 13659.7 |
| 52.5° | 15141.5 | 14996.5 | 15116.1 | 15711.2 | 16429.4 | 16284.2 | 14484.9 | 14044.1 | 14849.5 | 16124.7 | 15172.4 |
| 55° | 15130.7 | 14909.4 | 15299.3 | 16349.5 | 17907.6 | 18074.4 | 16373.1 | 15865.3 | 16618.0 | 18190.6 | 16775.7 |
| 57.5° | 14595.6 | 14606.6 | 15206.9 | 16581.7 | 18937.8 | 19757.7 | 18564.2 | 17802.3 | 18493.4 | 20283.7 | 18239.5 |
| 60° | 13859.2 | 13959.0 | 14824.2 | 16543.6 | 19763.2 | 21138.0 | 21252.2 | 19890.1 | 20330.9 | 22186.4 | 19451.1 |
| 62.5° | 12671.3 | 12776.3 | 13969.9 | 16148.2 | 19637.9 | 22467.5 | 23682.7 | 22259.0 | 22251.6 | 23340.0 | 19806.6 |
| 65° | 10797.5 | 10766.7 | 12020.0 | 14670.0 | 18587.7 | 23450.6 | 26096.9 | 24306.7 | 23699.1 | 23358.1 | 19092.1 |
| 67.5° | 7962.6 | 7824.7 | 8900.3 | 11173.0 | 15450.0 | 22349.6 | 27517.1 | 25373.2 | 24192.4 | 21821.8 | 16908.2 |
| 70° | 4131.8 | 3994.0 | 4864.6 | 6524.2 | 10160.9 | 17443.2 | 25944.6 | 24821.8 | 23102.4 | 18292.1 | 13246.1 |
| 72.5° | 1766.6 | 1743.0 | 2096.8 | 2862.1 | 4915.3 | 10061.1 | 20343.5 | 21484.4 | 19823.0 | 13628.9 | 9107.1 |
| 75° | 1188.0 | 1180.8 | 1313.2 | 1559.9 | 2211.0 | 4082.9 | 12731.0 | 15250.4 | 14503.1 | 8450.4 | 5122.2 |
| 77.5° | 932.3 | 923.2 | 1001.3 | 1120.9 | 1432.9 | 1610.7 | 5650.1 | 8187.5 | 7578.0 | 3678.4 | 2241.9 |
| 80° | 729.2 | 721.8 | 770.9 | 836.2 | 1030.2 | 1015.7 | 1859.1 | 3257.6 | 2521.1 | 1409.3 | 1090.1 |
| 82.5° | 574.9 | 574.9 | 614.9 | 616.7 | 731.0 | 692.9 | 970.3 | 1434.7 | 1258.7 | 821.6 | 667.5 |
| 85° | 526.0 | 526.0 | 567.7 | 460.7 | 477.0 | 437.1 | 602.1 | 850.7 | 798.0 | 337.4 | 290.2 |
| 87.5° | 264.9 | 257.6 | 477.0 | 408.1 | 259.4 | 232.1 | 293.8 | 411.7 | 442.6 | 186.9 | 145.1 |
| 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° | 4630.6 | 4630.6 | 4630.6 | 4630.6 | 4630.6 | 4630.6 | 4630.6 | 4630.6 | 4630.6 | 4630.6 |
| 2.5° | 4608.9 | 4607.0 | 4610.6 | 4612.5 | 4627.0 | 4646.9 | 4656.0 | 4668.7 | 4676.0 | 4672.4 |
| 5° | 4554.5 | 4558.1 | 4572.6 | 4583.4 | 4608.9 | 4641.6 | 4659.7 | 4674.1 | 4686.9 | 4681.4 |
| 7.5° | 4509.1 | 4518.2 | 4539.9 | 4549.0 | 4563.5 | 4572.6 | 4570.8 | 4576.3 | 4587.1 | 4574.3 |
| 10° | 4483.7 | 4494.6 | 4510.9 | 4498.2 | 4463.8 | 4414.7 | 4369.4 | 4345.9 | 4353.1 | 4344.0 |
| 12.5° | 4458.4 | 4472.8 | 4460.1 | 4400.3 | 4304.2 | 4240.7 | 4206.2 | 4209.9 | 4226.1 | 4229.8 |
| 15° | 4443.8 | 4449.2 | 4394.9 | 4282.4 | 4184.4 | 4175.4 | 4193.5 | 4189.9 | 4191.7 | 4191.7 |
| 17.5° | 4443.8 | 4429.3 | 4327.8 | 4215.2 | 4173.6 | 4157.2 | 4101.0 | 4030.2 | 3999.4 | 3988.5 |
| 20° | 4467.4 | 4429.3 | 4305.9 | 4231.6 | 4140.9 | 4001.2 | 3852.5 | 3721.9 | 3663.9 | 3647.5 |
| 22.5° | 4538.1 | 4472.8 | 4367.6 | 4238.8 | 3981.3 | 3747.3 | 3511.5 | 3355.6 | 3250.4 | 3232.2 |
| 25° | 4681.4 | 4608.9 | 4489.1 | 4142.7 | 3727.4 | 3393.6 | 3125.2 | 2951.1 | 2845.8 | 2831.4 |
| 27.5° | 4931.8 | 4884.6 | 4554.5 | 3930.5 | 3390.0 | 3032.7 | 2784.2 | 2650.0 | 2572.0 | 2566.5 |
| 30° | 5309.0 | 5285.4 | 4521.8 | 3616.7 | 2974.6 | 2682.7 | 2562.9 | 2484.9 | 2426.8 | 2425.0 |
| 32.5° | 5911.2 | 5720.7 | 4414.7 | 3234.0 | 2595.6 | 2434.1 | 2385.1 | 2337.9 | 2292.6 | 2292.6 |
| 35° | 6685.7 | 6072.6 | 4211.6 | 2824.2 | 2365.3 | 2296.3 | 2234.6 | 2160.3 | 2100.4 | 2096.8 |
| 37.5° | 7596.1 | 6290.3 | 3847.0 | 2494.0 | 2256.3 | 2203.8 | 2113.1 | 2002.4 | 1897.2 | 1879.0 |
| 40° | 8515.7 | 6355.5 | 3333.7 | 2290.8 | 2187.5 | 2111.2 | 2000.6 | 1870.0 | 1768.5 | 1763.0 |
| 42.5° | 9359.1 | 6230.4 | 2789.6 | 2151.2 | 2118.5 | 2016.9 | 1900.9 | 1784.7 | 1705.0 | 1703.2 |
| 45° | 10066.6 | 5905.7 | 2332.5 | 2018.8 | 2046.0 | 1931.7 | 1828.4 | 1734.0 | 1672.3 | 1659.6 |
| 47.5° | 10732.2 | 5446.8 | 2011.5 | 1879.0 | 1973.4 | 1884.5 | 1797.5 | 1708.6 | 1648.7 | 1639.7 |
| 50° | 11504.9 | 4951.6 | 1786.6 | 1743.0 | 1910.0 | 1868.3 | 1822.9 | 1730.3 | 1630.5 | 1619.8 |
| 52.5° | 12440.8 | 4523.7 | 1610.7 | 1623.4 | 1860.9 | 1889.9 | 1888.1 | 1792.1 | 1617.9 | 1603.4 |
| 55° | 13485.6 | 4048.4 | 1478.3 | 1525.4 | 1841.0 | 1929.8 | 1904.5 | 1850.1 | 1628.8 | 1606.9 |
| 57.5° | 14514.0 | 3493.3 | 1385.7 | 1451.1 | 1811.9 | 1926.2 | 1826.5 | 1748.4 | 1654.1 | 1623.4 |
| 60° | 15284.9 | 2747.9 | 1315.1 | 1385.7 | 1748.4 | 1866.3 | 1741.3 | 1637.9 | 1648.7 | 1625.1 |
| 62.5° | 15335.6 | 2124.0 | 1229.7 | 1329.4 | 1652.3 | 1806.5 | 1685.0 | 1588.8 | 1672.3 | 1650.6 |
| 65° | 14434.2 | 1605.2 | 1148.1 | 1262.4 | 1549.0 | 1768.5 | 1630.5 | 1561.7 | 1721.3 | 1697.7 |
| 67.5° | 12152.5 | 1291.5 | 1079.3 | 1193.4 | 1445.6 | 1688.6 | 1581.6 | 1536.3 | 1764.9 | 1723.1 |
| 70° | 8773.3 | 1101.0 | 1012.1 | 1110.1 | 1353.0 | 1597.9 | 1538.2 | 1491.0 | 1647.0 | 1581.6 |
| 72.5° | 5401.4 | 954.1 | 936.0 | 999.4 | 1282.3 | 1503.6 | 1472.9 | 1405.7 | 1483.6 | 1431.1 |
| 75° | 2697.1 | 827.1 | 850.7 | 890.6 | 1182.6 | 1396.7 | 1364.0 | 1296.9 | 1307.8 | 1296.9 |
| 77.5° | 1291.5 | 707.4 | 750.9 | 781.7 | 1053.8 | 1275.0 | 1240.6 | 1171.7 | 1159.0 | 1160.9 |
| 80° | 818.1 | 591.3 | 633.0 | 654.8 | 941.4 | 1133.7 | 1099.1 | 1030.2 | 1175.3 | 1090.1 |
| 82.5° | 511.5 | 480.6 | 491.5 | 531.4 | 819.9 | 986.7 | 941.4 | 879.6 | 1059.3 | 838.0 |
| 85° | 283.0 | 335.5 | 350.0 | 384.5 | 631.2 | 825.2 | 779.9 | 702.0 | 629.4 | 618.5 |
| 87.5° | 168.7 | 199.5 | 205.0 | 230.3 | 424.5 | 596.8 | 527.8 | 500.6 | 415.4 | 413.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)