

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: P193194

Luminaire Tested: **GAN-AF-06-LED-U-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193194
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-06-LED-U-T3-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34439.6 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

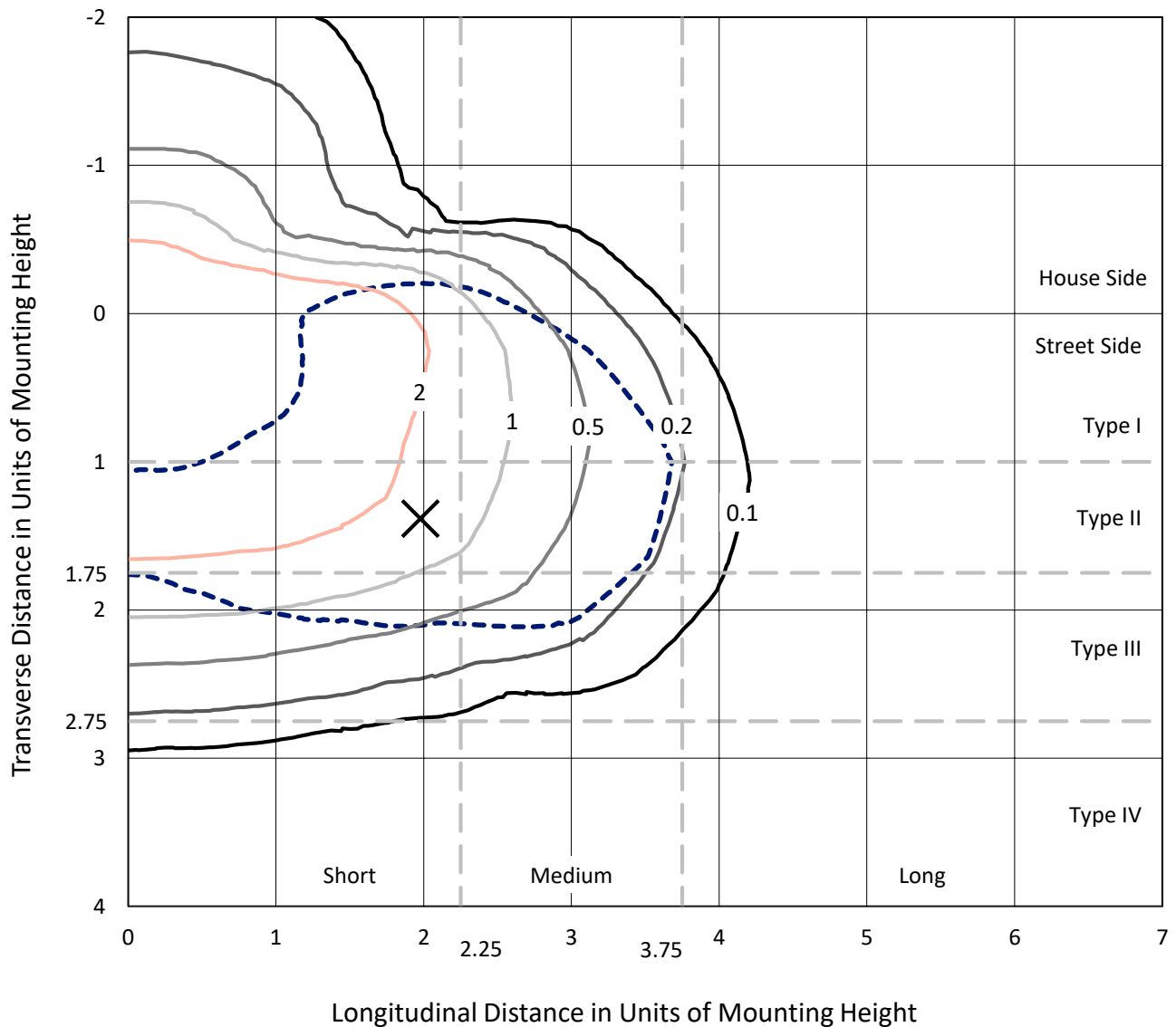
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

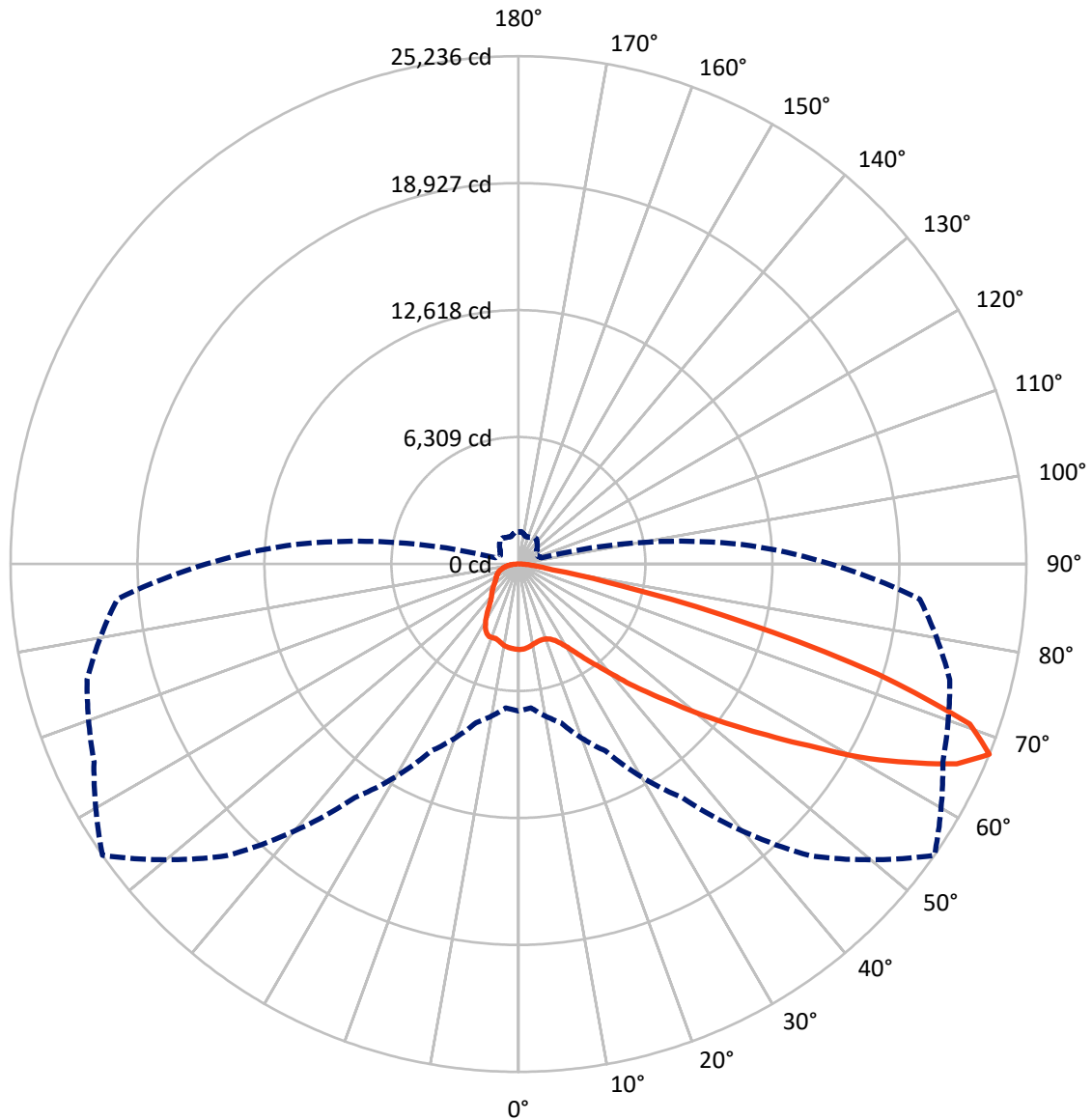
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 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 | 7439.7 | 0.0 | 7439.7 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 26999.9 | 0.0 | 26999.9 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 34439.6 | 0.0 | 34439.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 396.4 | 1.2 |
| 10°-20° | 1122.6 | 3.3 |
| 20°-30° | 1880.6 | 5.5 |
| 30°-40° | 3092.5 | 9.0 |
| 40°-50° | 5205.6 | 15.1 |
| 50°-60° | 8193.2 | 23.8 |
| 60°-70° | 9777.7 | 28.4 |
| 70°-80° | 4198.7 | 12.2 |
| 80°-90° | 572.5 | 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° | 34439.6 | 100.0 |
| 0°-180° | 34439.6 | 100.0 |



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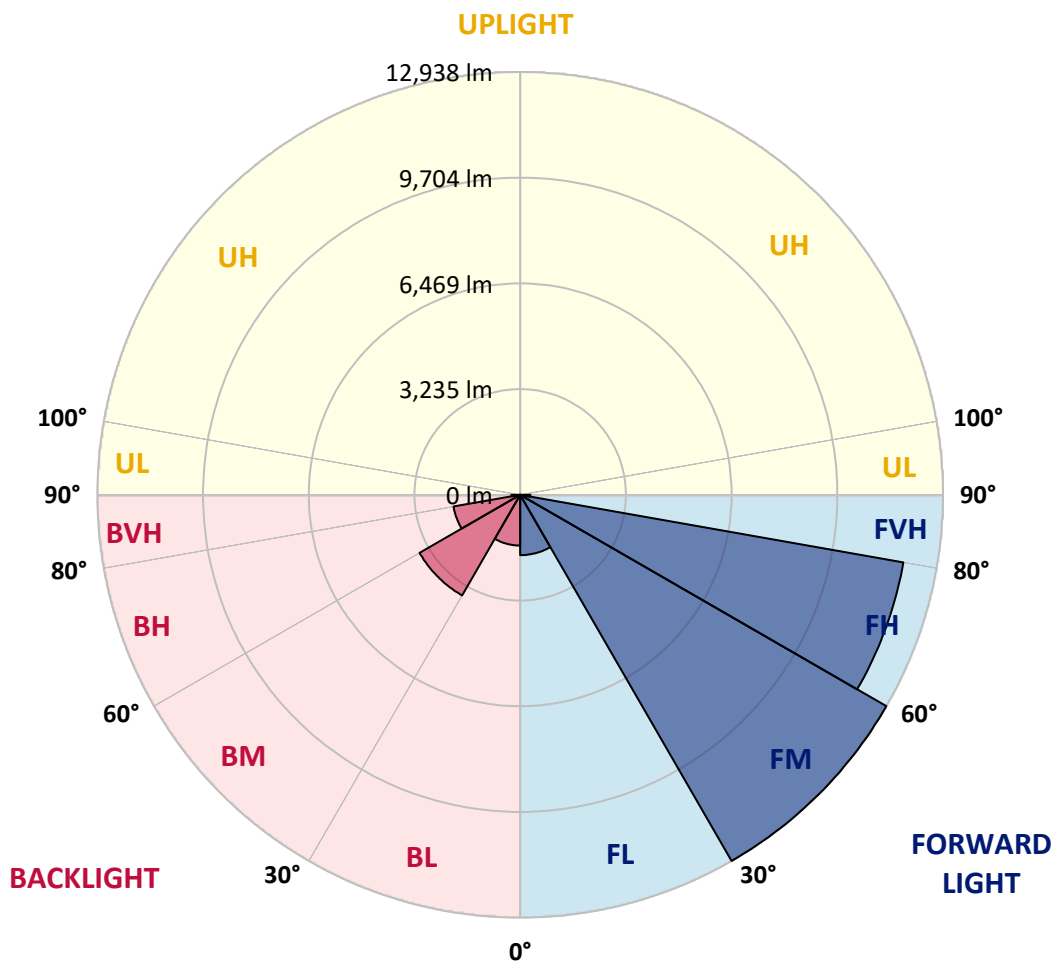
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1846.0 | 5.4 | | | |
| FM | (30°-60°) | 12938.1 | 37.6 | | | |
| FH | (60°-80°) | 11905.9 | 34.6 | | | G4/12000 |
| FVH | (80°-90°) | 309.9 | 0.9 | | | G3/500 |
| BL | (0°-30°) | 1553.6 | 4.5 | B3/2500 | | |
| BM | (30°-60°) | 3553.1 | 10.3 | B3/5000 | | |
| BH | (60°-80°) | 2070.4 | 6.0 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 262.6 | 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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4246.8 | 4246.8 | 4246.8 | 4246.8 | 4246.8 | 4246.8 | 4246.8 | 4246.8 | 4246.8 | 4246.8 | 4246.8 |
| 2.5° | 4210.2 | 4211.8 | 4215.2 | 4228.5 | 4240.2 | 4236.7 | 4238.5 | 4231.8 | 4230.2 | 4220.1 | 4230.2 |
| 5° | 4157.0 | 4161.9 | 4163.7 | 4185.2 | 4198.5 | 4201.9 | 4196.8 | 4188.6 | 4178.6 | 4168.6 | 4173.6 |
| 7.5° | 4035.5 | 4048.8 | 4050.5 | 4080.4 | 4102.0 | 4130.3 | 4131.9 | 4133.8 | 4128.7 | 4122.1 | 4131.9 |
| 10° | 3959.0 | 3962.3 | 3960.6 | 3982.3 | 3998.9 | 4030.6 | 4048.8 | 4080.4 | 4093.7 | 4097.1 | 4103.8 |
| 12.5° | 3954.0 | 3950.7 | 3945.7 | 3945.7 | 3940.7 | 3954.0 | 3987.3 | 4032.2 | 4063.8 | 4073.7 | 4082.2 |
| 15° | 4007.2 | 4005.6 | 3988.9 | 3964.0 | 3932.3 | 3922.4 | 3950.7 | 4000.6 | 4042.1 | 4063.8 | 4072.1 |
| 17.5° | 4127.0 | 4117.0 | 4090.4 | 4033.9 | 3965.7 | 3939.1 | 3942.4 | 3983.9 | 4032.2 | 4060.5 | 4068.9 |
| 20° | 4346.6 | 4346.6 | 4290.1 | 4183.5 | 4062.2 | 3998.9 | 3969.0 | 3994.0 | 4040.5 | 4078.7 | 4090.4 |
| 22.5° | 4725.9 | 4729.2 | 4634.3 | 4459.8 | 4255.1 | 4120.3 | 4045.6 | 4040.5 | 4095.4 | 4138.6 | 4152.0 |
| 25° | 5263.1 | 5249.8 | 5116.7 | 4867.3 | 4556.2 | 4333.3 | 4203.5 | 4173.6 | 4220.1 | 4268.4 | 4285.0 |
| 27.5° | 5888.6 | 5840.4 | 5682.3 | 5381.2 | 4978.7 | 4652.7 | 4453.1 | 4404.8 | 4449.7 | 4504.6 | 4521.2 |
| 30° | 6507.4 | 6457.6 | 6269.6 | 5940.2 | 5492.7 | 5080.1 | 4794.1 | 4715.8 | 4779.1 | 4857.2 | 4867.3 |
| 32.5° | 7126.2 | 7126.2 | 6916.6 | 6532.4 | 6045.0 | 5590.8 | 5248.2 | 5155.1 | 5259.8 | 5354.7 | 5376.2 |
| 35° | 7866.4 | 7869.7 | 7666.8 | 7204.3 | 6680.4 | 6199.7 | 5822.1 | 5753.8 | 5911.9 | 5978.4 | 6030.0 |
| 37.5° | 8776.4 | 8794.6 | 8533.4 | 7974.7 | 7400.6 | 6895.1 | 6445.9 | 6352.7 | 6510.8 | 6692.0 | 6858.4 |
| 40° | 9759.5 | 9782.7 | 9494.9 | 8806.3 | 8232.3 | 7703.5 | 7217.6 | 7049.7 | 7312.5 | 7658.5 | 7873.1 |
| 42.5° | 10697.6 | 10817.4 | 10539.5 | 9830.9 | 9213.9 | 8666.6 | 8174.2 | 7929.6 | 8259.0 | 8781.3 | 8967.7 |
| 45° | 12053.4 | 12139.8 | 11655.8 | 11013.7 | 10433.1 | 9821.0 | 9168.9 | 8911.0 | 9371.8 | 10030.5 | 10068.9 |
| 47.5° | 12956.6 | 12891.7 | 12645.5 | 12246.4 | 11878.6 | 11306.4 | 10325.0 | 10042.2 | 10654.4 | 11429.5 | 11214.9 |
| 50° | 13437.4 | 13457.3 | 13424.0 | 13447.3 | 13460.6 | 13101.3 | 11742.3 | 11354.7 | 12084.9 | 13021.4 | 12527.4 |
| 52.5° | 13886.5 | 13753.3 | 13863.2 | 14408.8 | 15067.5 | 14934.4 | 13284.3 | 12880.0 | 13618.6 | 14788.0 | 13914.7 |
| 55° | 13876.5 | 13673.6 | 14031.2 | 14994.3 | 16423.2 | 16576.3 | 15015.9 | 14550.2 | 15240.5 | 16682.7 | 15385.3 |
| 57.5° | 13385.8 | 13395.7 | 13946.3 | 15207.2 | 17368.1 | 18119.9 | 17025.5 | 16326.7 | 16960.6 | 18602.4 | 16727.6 |
| 60° | 12710.3 | 12801.9 | 13595.3 | 15172.3 | 18124.9 | 19385.8 | 19490.6 | 18241.4 | 18645.5 | 20347.3 | 17838.8 |
| 62.5° | 11620.9 | 11717.3 | 12811.8 | 14809.6 | 18010.2 | 20605.1 | 21719.6 | 20413.8 | 20407.1 | 21405.2 | 18164.8 |
| 65° | 9902.5 | 9874.2 | 11023.7 | 13453.9 | 17046.9 | 21506.7 | 23933.7 | 22291.8 | 21734.6 | 21421.9 | 17509.5 |
| 67.5° | 7302.6 | 7176.1 | 8162.5 | 10246.9 | 14169.3 | 20497.0 | 25236.1 | 23269.9 | 22187.1 | 20012.9 | 15506.6 |
| 70° | 3789.3 | 3662.9 | 4461.4 | 5983.4 | 9318.6 | 15997.4 | 23793.9 | 22764.2 | 21187.3 | 16775.8 | 12148.1 |
| 72.5° | 1620.2 | 1598.6 | 1923.0 | 2625.0 | 4507.9 | 9227.2 | 18657.2 | 19703.5 | 18179.8 | 12499.1 | 8352.3 |
| 75° | 1089.6 | 1082.9 | 1204.4 | 1430.5 | 2027.8 | 3744.5 | 11675.8 | 13986.3 | 13300.9 | 7750.0 | 4697.6 |
| 77.5° | 855.1 | 846.6 | 918.3 | 1028.0 | 1314.2 | 1477.1 | 5181.6 | 7508.9 | 6949.9 | 3373.5 | 2056.0 |
| 80° | 668.6 | 662.0 | 707.0 | 766.9 | 944.9 | 931.6 | 1705.0 | 2987.5 | 2312.2 | 1292.5 | 999.7 |
| 82.5° | 527.2 | 527.2 | 563.9 | 565.5 | 670.5 | 635.5 | 889.9 | 1315.8 | 1154.5 | 753.6 | 612.2 |
| 85° | 482.4 | 482.4 | 520.6 | 422.5 | 437.5 | 400.9 | 552.3 | 780.1 | 731.9 | 309.4 | 266.1 |
| 87.5° | 242.9 | 236.2 | 437.5 | 374.3 | 237.8 | 212.9 | 269.5 | 377.6 | 405.9 | 171.3 | 133.1 |
| 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° | 4246.8 | 4246.8 | 4246.8 | 4246.8 | 4246.8 | 4246.8 | 4246.8 | 4246.8 | 4246.8 | 4246.8 |
| 2.5° | 4226.8 | 4225.2 | 4228.5 | 4230.2 | 4243.4 | 4261.7 | 4270.1 | 4281.8 | 4288.3 | 4285.0 |
| 5° | 4176.9 | 4180.3 | 4193.6 | 4203.5 | 4226.8 | 4256.7 | 4273.3 | 4286.7 | 4298.4 | 4293.4 |
| 7.5° | 4135.4 | 4143.6 | 4163.7 | 4171.9 | 4185.2 | 4193.6 | 4191.8 | 4196.8 | 4206.8 | 4195.2 |
| 10° | 4112.1 | 4122.1 | 4137.0 | 4125.3 | 4093.7 | 4048.8 | 4007.2 | 3985.7 | 3992.3 | 3983.9 |
| 12.5° | 4088.7 | 4102.0 | 4090.4 | 4035.5 | 3947.3 | 3889.2 | 3857.5 | 3860.9 | 3875.9 | 3879.1 |
| 15° | 4075.5 | 4080.4 | 4030.6 | 3927.5 | 3837.6 | 3829.2 | 3845.9 | 3842.5 | 3844.2 | 3844.2 |
| 17.5° | 4075.5 | 4062.2 | 3969.0 | 3865.8 | 3827.6 | 3812.6 | 3761.0 | 3696.1 | 3668.0 | 3657.9 |
| 20° | 4097.1 | 4062.2 | 3949.0 | 3880.8 | 3797.7 | 3669.6 | 3533.1 | 3413.4 | 3360.2 | 3345.2 |
| 22.5° | 4161.9 | 4102.0 | 4005.6 | 3887.5 | 3651.2 | 3436.6 | 3220.4 | 3077.4 | 2980.9 | 2964.3 |
| 25° | 4293.4 | 4226.8 | 4117.0 | 3799.3 | 3418.4 | 3112.4 | 2866.1 | 2706.5 | 2609.9 | 2596.6 |
| 27.5° | 4522.9 | 4479.6 | 4176.9 | 3604.7 | 3109.0 | 2781.3 | 2553.4 | 2430.3 | 2358.8 | 2353.8 |
| 30° | 4868.9 | 4847.3 | 4146.9 | 3316.9 | 2728.1 | 2460.2 | 2350.5 | 2278.9 | 2225.7 | 2224.1 |
| 32.5° | 5421.2 | 5246.5 | 4048.8 | 2966.0 | 2380.4 | 2232.3 | 2187.5 | 2144.2 | 2102.5 | 2102.5 |
| 35° | 6131.4 | 5569.3 | 3862.6 | 2590.0 | 2169.2 | 2106.0 | 2049.3 | 1981.2 | 1926.2 | 1923.0 |
| 37.5° | 6966.5 | 5768.8 | 3528.2 | 2287.3 | 2069.4 | 2021.1 | 1937.9 | 1836.4 | 1740.0 | 1723.3 |
| 40° | 7809.9 | 5828.8 | 3057.4 | 2100.9 | 2006.1 | 1936.3 | 1834.8 | 1715.1 | 1621.9 | 1616.8 |
| 42.5° | 8583.4 | 5713.9 | 2558.5 | 1972.9 | 1942.9 | 1849.8 | 1743.3 | 1636.8 | 1563.6 | 1562.0 |
| 45° | 9232.1 | 5416.2 | 2139.2 | 1851.4 | 1876.4 | 1771.5 | 1676.8 | 1590.3 | 1533.7 | 1522.1 |
| 47.5° | 9842.6 | 4995.4 | 1844.8 | 1723.3 | 1809.9 | 1728.4 | 1648.5 | 1567.0 | 1512.0 | 1503.7 |
| 50° | 10551.2 | 4541.3 | 1638.5 | 1598.6 | 1751.7 | 1713.4 | 1671.7 | 1586.9 | 1495.4 | 1485.5 |
| 52.5° | 11409.6 | 4148.7 | 1477.1 | 1488.7 | 1706.7 | 1733.3 | 1731.6 | 1643.5 | 1483.7 | 1470.5 |
| 55° | 12367.7 | 3712.8 | 1355.7 | 1398.9 | 1688.4 | 1769.9 | 1746.6 | 1696.7 | 1493.8 | 1473.8 |
| 57.5° | 13310.9 | 3203.8 | 1270.9 | 1330.8 | 1661.9 | 1766.6 | 1675.1 | 1603.6 | 1517.1 | 1488.7 |
| 60° | 14017.9 | 2520.2 | 1206.0 | 1270.9 | 1603.6 | 1711.6 | 1597.0 | 1502.1 | 1512.0 | 1490.4 |
| 62.5° | 14064.4 | 1947.9 | 1127.8 | 1219.4 | 1515.4 | 1656.8 | 1545.4 | 1457.2 | 1533.7 | 1513.8 |
| 65° | 13237.8 | 1472.2 | 1052.9 | 1157.7 | 1420.6 | 1621.9 | 1495.4 | 1432.3 | 1578.6 | 1557.0 |
| 67.5° | 11145.1 | 1184.4 | 989.8 | 1094.6 | 1325.8 | 1548.6 | 1450.5 | 1408.9 | 1618.5 | 1580.3 |
| 70° | 8046.1 | 1009.7 | 928.1 | 1018.1 | 1240.9 | 1465.5 | 1410.6 | 1367.4 | 1510.4 | 1450.5 |
| 72.5° | 4953.7 | 874.9 | 858.3 | 916.5 | 1176.0 | 1379.0 | 1350.8 | 1289.1 | 1360.8 | 1312.4 |
| 75° | 2473.5 | 758.5 | 780.1 | 816.7 | 1084.6 | 1280.8 | 1250.9 | 1189.4 | 1199.3 | 1189.4 |
| 77.5° | 1184.4 | 648.8 | 688.7 | 717.0 | 966.5 | 1169.4 | 1137.8 | 1074.6 | 1063.0 | 1064.6 |
| 80° | 750.2 | 542.3 | 580.5 | 600.5 | 863.3 | 1039.6 | 1008.0 | 944.9 | 1078.0 | 999.7 |
| 82.5° | 469.0 | 440.9 | 450.8 | 487.4 | 751.9 | 904.8 | 863.3 | 806.8 | 971.5 | 768.5 |
| 85° | 259.5 | 307.8 | 321.0 | 352.7 | 578.8 | 756.8 | 715.3 | 643.7 | 577.2 | 567.3 |
| 87.5° | 154.7 | 183.0 | 187.9 | 211.3 | 389.3 | 547.3 | 484.0 | 459.1 | 380.9 | 379.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)