

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: P194866

Luminaire Tested: **GAN-AF-08-LED-U-T4FT-7060-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-T4FT-7060-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38774 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 334
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

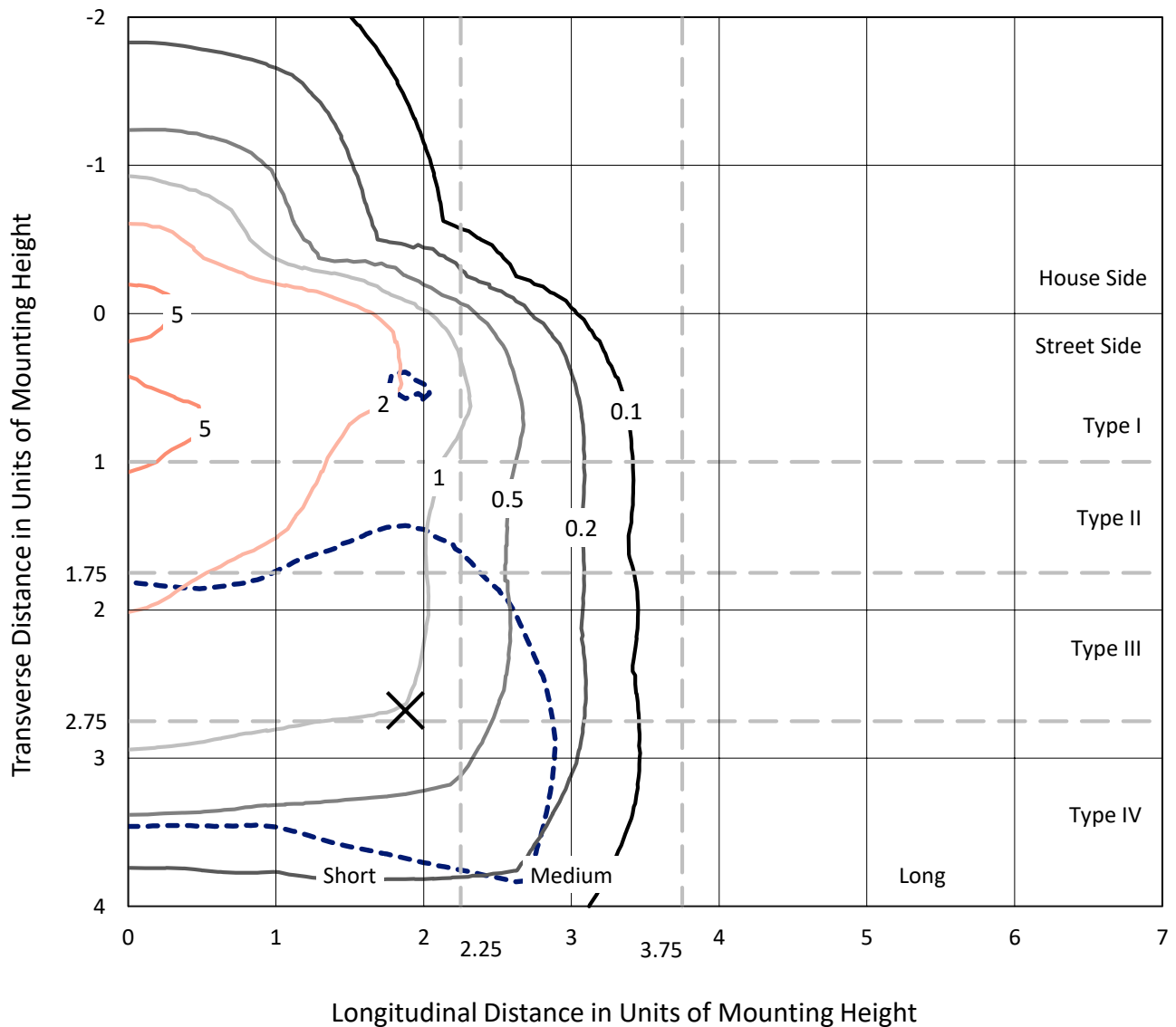


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

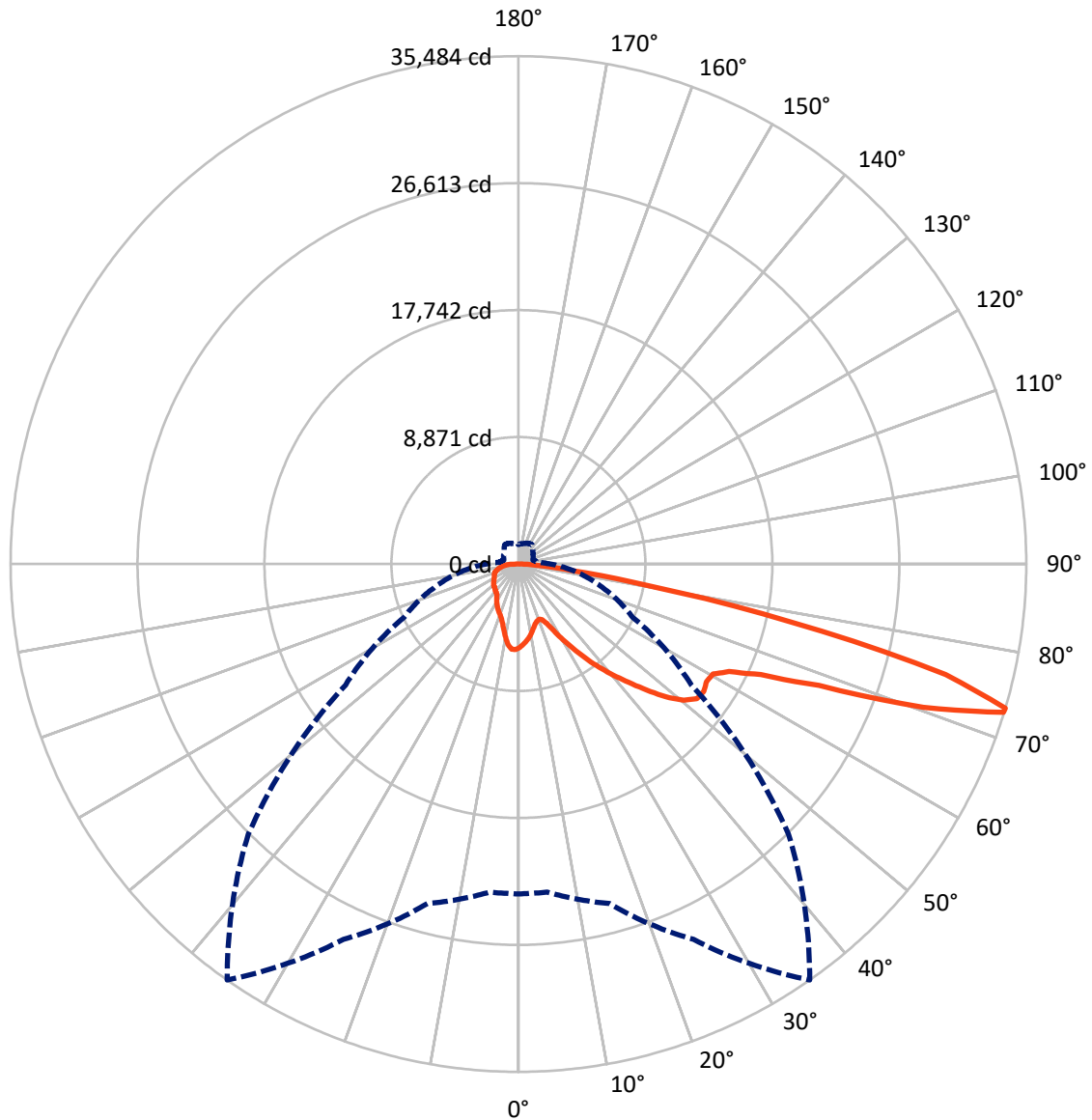


Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7395.3 | 0.0 | 7395.3 |
| | % Fixture | 19.1 | 0.0 | 19.1 |
| Street Side | Lumens | 31378.7 | 0.0 | 31378.7 |
| | % Fixture | 80.9 | 0.0 | 80.9 |
| Total | Lumens | 38774.0 | 0.0 | 38774.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 529.8 | 1.4 |
| 10°-20° | 1322.3 | 3.4 |
| 20°-30° | 2137.7 | 5.5 |
| 30°-40° | 3584.6 | 9.2 |
| 40°-50° | 5525.4 | 14.3 |
| 50°-60° | 7413.0 | 19.1 |
| 60°-70° | 9875.6 | 25.5 |
| 70°-80° | 7532.0 | 19.4 |
| 80°-90° | 853.7 | 2.2 |
| 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° | 38774.0 | 100.0 |
| 0°-180° | 38774.0 | 100.0 |

Coefficient of Utilization



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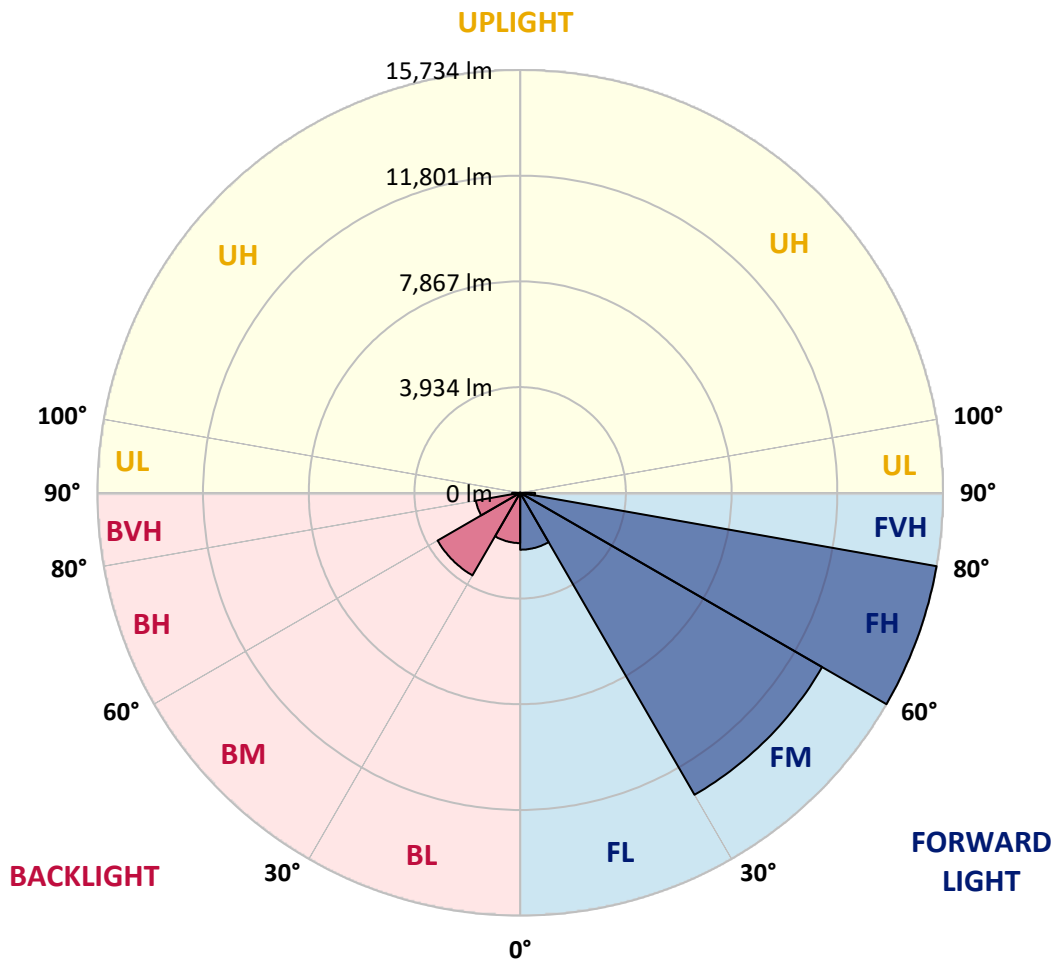
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2118.4 | 5.5 | | | |
| FM | (30°-60°) | 12974.0 | 33.5 | | | |
| FH | (60°-80°) | 15734.5 | 40.6 | | | G5 |
| FVH | (80°-90°) | 551.8 | 1.4 | | | G4/750 |
| BL | (0°-30°) | 1871.4 | 4.8 | B3/2500 | | |
| BM | (30°-60°) | 3548.9 | 9.2 | B3/5000 | | |
| BH | (60°-80°) | 1673.1 | 4.3 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 301.9 | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5852.2 | 5852.2 | 5852.2 | 5852.2 | 5852.2 | 5852.2 | 5852.2 | 5852.2 | 5852.2 | 5852.2 | 5852.2 |
| 2.5° | 5621.3 | 5632.5 | 5619.5 | 5636.2 | 5664.1 | 5693.9 | 5714.4 | 5744.2 | 5777.7 | 5824.3 | 5835.4 |
| 5° | 5356.9 | 5373.7 | 5373.7 | 5403.5 | 5457.5 | 5505.9 | 5550.6 | 5599.0 | 5669.7 | 5749.8 | 5781.4 |
| 7.5° | 5066.4 | 5075.8 | 5092.5 | 5137.2 | 5215.4 | 5284.3 | 5347.6 | 5425.8 | 5522.6 | 5628.8 | 5684.6 |
| 10° | 4716.4 | 4729.4 | 4755.5 | 4818.8 | 4924.9 | 5019.9 | 5111.1 | 5219.1 | 5342.0 | 5474.2 | 5545.0 |
| 12.5° | 4468.8 | 4465.0 | 4476.2 | 4522.7 | 4615.8 | 4731.3 | 4863.5 | 5001.3 | 5152.1 | 5306.6 | 5392.3 |
| 15° | 4385.0 | 4364.5 | 4321.7 | 4310.5 | 4360.8 | 4476.2 | 4628.9 | 4798.3 | 4978.9 | 5165.1 | 5271.3 |
| 17.5° | 4437.1 | 4401.7 | 4284.4 | 4198.8 | 4191.3 | 4278.8 | 4440.8 | 4630.7 | 4839.3 | 5066.4 | 5198.6 |
| 20° | 4764.8 | 4681.0 | 4392.4 | 4193.2 | 4124.3 | 4167.1 | 4308.6 | 4509.7 | 4755.5 | 5057.1 | 5226.6 |
| 22.5° | 5548.7 | 5425.8 | 4813.2 | 4442.7 | 4209.9 | 4157.8 | 4263.9 | 4478.1 | 4764.8 | 5172.6 | 5388.6 |
| 25° | 6690.1 | 6515.1 | 5535.7 | 5064.6 | 4584.2 | 4306.8 | 4331.0 | 4550.7 | 4897.0 | 5440.7 | 5701.4 |
| 27.5° | 7591.3 | 7477.7 | 6479.7 | 5941.6 | 5265.7 | 4708.9 | 4548.8 | 4733.2 | 5167.0 | 5880.1 | 6146.4 |
| 30° | 8127.5 | 8058.6 | 7488.9 | 6935.9 | 6135.2 | 5349.5 | 4965.9 | 5075.8 | 5589.7 | 6489.0 | 6708.7 |
| 32.5° | 8749.4 | 8708.5 | 8429.2 | 7920.9 | 7073.7 | 6191.1 | 5626.9 | 5587.8 | 6155.7 | 7220.8 | 7321.3 |
| 35° | 9393.7 | 9380.7 | 9216.8 | 8851.8 | 8081.0 | 7300.8 | 6503.9 | 6239.5 | 6772.0 | 7980.4 | 7917.1 |
| 37.5° | 9993.2 | 9970.9 | 9875.9 | 9663.7 | 9134.9 | 8492.5 | 7397.6 | 6907.9 | 7436.7 | 8706.6 | 8425.5 |
| 40° | 11097.4 | 10922.4 | 10596.5 | 10436.4 | 10199.9 | 9496.1 | 8107.1 | 7531.7 | 8125.7 | 9399.3 | 8864.9 |
| 42.5° | 12443.6 | 12158.7 | 11551.7 | 11332.0 | 11298.5 | 10287.4 | 8591.2 | 8136.8 | 8820.2 | 10086.3 | 9296.9 |
| 45° | 13503.1 | 13234.9 | 12711.7 | 12434.3 | 12557.2 | 11004.3 | 9077.1 | 8783.0 | 9535.2 | 10806.9 | 9741.9 |
| 47.5° | 14633.3 | 14212.5 | 13519.8 | 13603.6 | 13871.7 | 11682.1 | 9572.4 | 9477.5 | 10319.1 | 11613.2 | 10294.9 |
| 50° | 14674.3 | 14352.1 | 14048.6 | 14549.5 | 14966.6 | 12305.8 | 10192.5 | 10205.5 | 11278.0 | 12627.9 | 11030.4 |
| 52.5° | 13823.3 | 13754.4 | 14236.7 | 15024.3 | 15625.7 | 12799.2 | 10898.2 | 10957.7 | 12505.1 | 13793.5 | 11838.5 |
| 55° | 13525.4 | 13447.2 | 14003.9 | 14858.6 | 15715.1 | 13207.0 | 11663.4 | 11771.4 | 13989.1 | 15022.4 | 12626.1 |
| 57.5° | 14251.6 | 14078.4 | 14115.7 | 14780.4 | 15497.3 | 13653.9 | 12497.6 | 12715.5 | 15601.5 | 16096.8 | 13132.5 |
| 60° | 16281.1 | 15910.6 | 15206.8 | 15190.0 | 15614.6 | 14324.2 | 13462.1 | 13728.4 | 17277.3 | 16610.7 | 12935.2 |
| 62.5° | 19128.1 | 18757.6 | 17439.3 | 16580.9 | 16517.6 | 15430.2 | 14646.3 | 14717.1 | 18245.5 | 15914.3 | 11730.5 |
| 65° | 22209.7 | 21878.3 | 20405.4 | 19193.3 | 18608.6 | 17262.4 | 16022.3 | 15158.4 | 17929.0 | 13998.4 | 9622.7 |
| 67.5° | 25950.4 | 25594.8 | 24328.6 | 23209.6 | 22647.3 | 20219.2 | 16988.7 | 14735.7 | 15919.9 | 10844.2 | 6917.3 |
| 70° | 28566.5 | 28203.4 | 27704.4 | 28611.2 | 29987.2 | 24485.0 | 17113.5 | 13017.1 | 11890.6 | 7207.7 | 4163.4 |
| 72.5° | 25153.5 | 24984.0 | 25894.5 | 29713.5 | 35444.6 | 27073.2 | 15469.3 | 9477.5 | 6906.1 | 3826.4 | 2409.4 |
| 73° | 23045.7 | 23008.5 | 24561.4 | 28940.7 | 35483.7 | 26674.7 | 14748.7 | 8809.0 | 5923.0 | 3385.1 | 2202.7 |
| 75° | 10406.6 | 10706.4 | 14110.1 | 22105.4 | 30828.8 | 21980.7 | 10380.5 | 5053.4 | 3346.0 | 2338.6 | 1662.7 |
| 77.5° | 2500.6 | 2604.9 | 4414.8 | 10497.8 | 19468.9 | 13099.0 | 4703.4 | 2498.8 | 2139.4 | 1651.6 | 1214.0 |
| 80° | 1065.1 | 1100.4 | 1700.0 | 3878.5 | 9166.5 | 5275.0 | 2167.3 | 1673.9 | 1480.3 | 1152.6 | 850.9 |
| 82.5° | 592.1 | 629.3 | 964.5 | 1759.6 | 3699.8 | 1798.7 | 1322.0 | 1165.6 | 973.8 | 694.5 | 553.0 |
| 85° | 335.2 | 355.6 | 564.2 | 983.1 | 1567.8 | 722.4 | 791.3 | 774.6 | 549.3 | 357.5 | 271.8 |
| 87.5° | 158.3 | 171.3 | 271.8 | 456.2 | 614.5 | 283.0 | 402.2 | 443.2 | 344.5 | 217.9 | 141.5 |
| 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° | 5852.2 | 5852.2 | 5852.2 | 5852.2 | 5852.2 | 5852.2 | 5852.2 | 5852.2 | 5852.2 | 5852.2 |
| 2.5° | 5848.5 | 5882.0 | 5921.1 | 5941.6 | 5960.2 | 5982.5 | 6004.9 | 6004.9 | 6008.6 | 6010.5 |
| 5° | 5807.5 | 5876.4 | 5937.9 | 5963.9 | 5969.5 | 5969.5 | 5963.9 | 5934.1 | 5908.1 | 5919.2 |
| 7.5° | 5721.9 | 5822.4 | 5874.5 | 5865.2 | 5794.5 | 5712.6 | 5643.7 | 5559.9 | 5517.0 | 5509.6 |
| 10° | 5599.0 | 5714.4 | 5723.7 | 5630.6 | 5455.6 | 5280.6 | 5135.3 | 4993.8 | 4926.8 | 4910.0 |
| 12.5° | 5463.0 | 5569.2 | 5509.6 | 5317.8 | 5036.7 | 4781.6 | 4597.2 | 4453.9 | 4390.5 | 4373.8 |
| 15° | 5353.2 | 5425.8 | 5275.0 | 4973.3 | 4619.6 | 4349.6 | 4196.9 | 4090.8 | 4046.1 | 4033.0 |
| 17.5° | 5295.5 | 5310.4 | 5034.8 | 4627.0 | 4250.9 | 4025.6 | 3930.6 | 3880.4 | 3863.6 | 3854.3 |
| 20° | 5323.4 | 5219.1 | 4805.8 | 4304.9 | 3949.3 | 3791.0 | 3768.6 | 3755.6 | 3751.9 | 3746.3 |
| 22.5° | 5463.0 | 5191.2 | 4595.4 | 3999.5 | 3684.9 | 3616.0 | 3634.6 | 3632.7 | 3629.0 | 3625.3 |
| 25° | 5712.6 | 5215.4 | 4390.5 | 3709.1 | 3463.3 | 3448.4 | 3481.9 | 3481.9 | 3467.0 | 3467.0 |
| 27.5° | 6042.1 | 5265.7 | 4161.5 | 3433.5 | 3262.2 | 3264.0 | 3290.1 | 3282.7 | 3265.9 | 3254.7 |
| 30° | 6444.3 | 5297.3 | 3893.4 | 3185.8 | 3074.1 | 3066.7 | 3074.1 | 3042.5 | 2992.2 | 2988.5 |
| 32.5° | 6855.8 | 5258.2 | 3582.4 | 2966.1 | 2874.9 | 2858.1 | 2852.6 | 2807.9 | 2750.1 | 2733.4 |
| 35° | 7228.2 | 5114.9 | 3265.9 | 2791.1 | 2685.0 | 2647.7 | 2673.8 | 2658.9 | 2606.8 | 2593.7 |
| 37.5° | 7500.1 | 4848.6 | 2981.0 | 2636.6 | 2549.0 | 2539.7 | 2556.5 | 2562.1 | 2500.6 | 2487.6 |
| 40° | 7682.5 | 4487.4 | 2737.1 | 2506.2 | 2523.0 | 2487.6 | 2431.7 | 2392.6 | 2374.0 | 2368.4 |
| 42.5° | 7829.6 | 4111.3 | 2532.3 | 2444.8 | 2528.6 | 2426.2 | 2305.1 | 2241.8 | 2275.3 | 2290.2 |
| 45° | 7999.1 | 3744.4 | 2361.0 | 2368.4 | 2500.6 | 2355.4 | 2217.6 | 2156.2 | 2169.2 | 2172.9 |
| 47.5° | 8231.8 | 3297.6 | 2176.7 | 2245.5 | 2407.5 | 2307.0 | 2163.6 | 2076.1 | 2014.7 | 1986.7 |
| 50° | 8553.9 | 2768.8 | 1984.9 | 2107.8 | 2316.3 | 2271.6 | 2079.8 | 1986.7 | 1873.2 | 1847.1 |
| 52.5° | 8777.4 | 2275.3 | 1826.6 | 1992.3 | 2234.4 | 2200.9 | 2012.8 | 1891.8 | 1772.6 | 1750.3 |
| 55° | 8656.3 | 1889.9 | 1688.8 | 1863.8 | 2126.4 | 2113.3 | 1956.9 | 1794.9 | 1701.8 | 1683.2 |
| 57.5° | 8051.2 | 1646.0 | 1582.7 | 1742.8 | 1994.2 | 2038.9 | 1882.5 | 1713.0 | 1646.0 | 1633.0 |
| 60° | 6896.8 | 1493.3 | 1515.7 | 1660.9 | 1886.2 | 1964.4 | 1808.0 | 1668.3 | 1623.6 | 1614.3 |
| 62.5° | 5351.3 | 1390.9 | 1465.4 | 1601.3 | 1802.4 | 1912.3 | 1767.0 | 1662.7 | 1646.0 | 1634.8 |
| 65° | 3833.8 | 1309.0 | 1411.4 | 1541.7 | 1726.1 | 1863.8 | 1752.1 | 1655.3 | 1659.0 | 1649.7 |
| 67.5° | 2604.9 | 1236.4 | 1346.2 | 1474.7 | 1651.6 | 1821.0 | 1731.6 | 1629.2 | 1675.8 | 1664.6 |
| 70° | 1822.9 | 1165.6 | 1269.9 | 1389.0 | 1558.5 | 1761.4 | 1694.4 | 1590.1 | 1586.4 | 1541.7 |
| 72.5° | 1422.6 | 1072.5 | 1165.6 | 1269.9 | 1439.3 | 1677.6 | 1619.9 | 1502.6 | 1441.2 | 1394.6 |
| 73° | 1357.4 | 1050.2 | 1139.5 | 1243.8 | 1413.2 | 1657.2 | 1599.4 | 1478.4 | 1409.5 | 1366.7 |
| 75° | 1122.8 | 953.3 | 1035.3 | 1128.4 | 1301.5 | 1560.3 | 1498.9 | 1368.6 | 1281.0 | 1255.0 |
| 77.5° | 882.6 | 815.5 | 893.8 | 977.5 | 1147.0 | 1418.8 | 1349.9 | 1225.2 | 1176.8 | 1154.4 |
| 80° | 653.6 | 675.9 | 744.8 | 819.3 | 994.3 | 1268.0 | 1206.6 | 1081.8 | 1297.8 | 1243.8 |
| 82.5° | 459.9 | 512.0 | 575.4 | 642.4 | 834.2 | 1120.9 | 1046.4 | 918.0 | 949.6 | 789.5 |
| 85° | 271.8 | 335.2 | 394.7 | 452.5 | 601.4 | 929.1 | 864.0 | 731.8 | 599.6 | 571.6 |
| 87.5° | 158.3 | 186.2 | 203.0 | 262.5 | 413.4 | 700.1 | 608.9 | 541.8 | 311.0 | 210.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)