

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: P192336

Luminaire Tested: **GAN-AF-08-LED-U-T4FT-7050-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192336
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-7050-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1050mA 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: 47992 lumens
Efficiency: N/A
Efficacy: 107.8 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

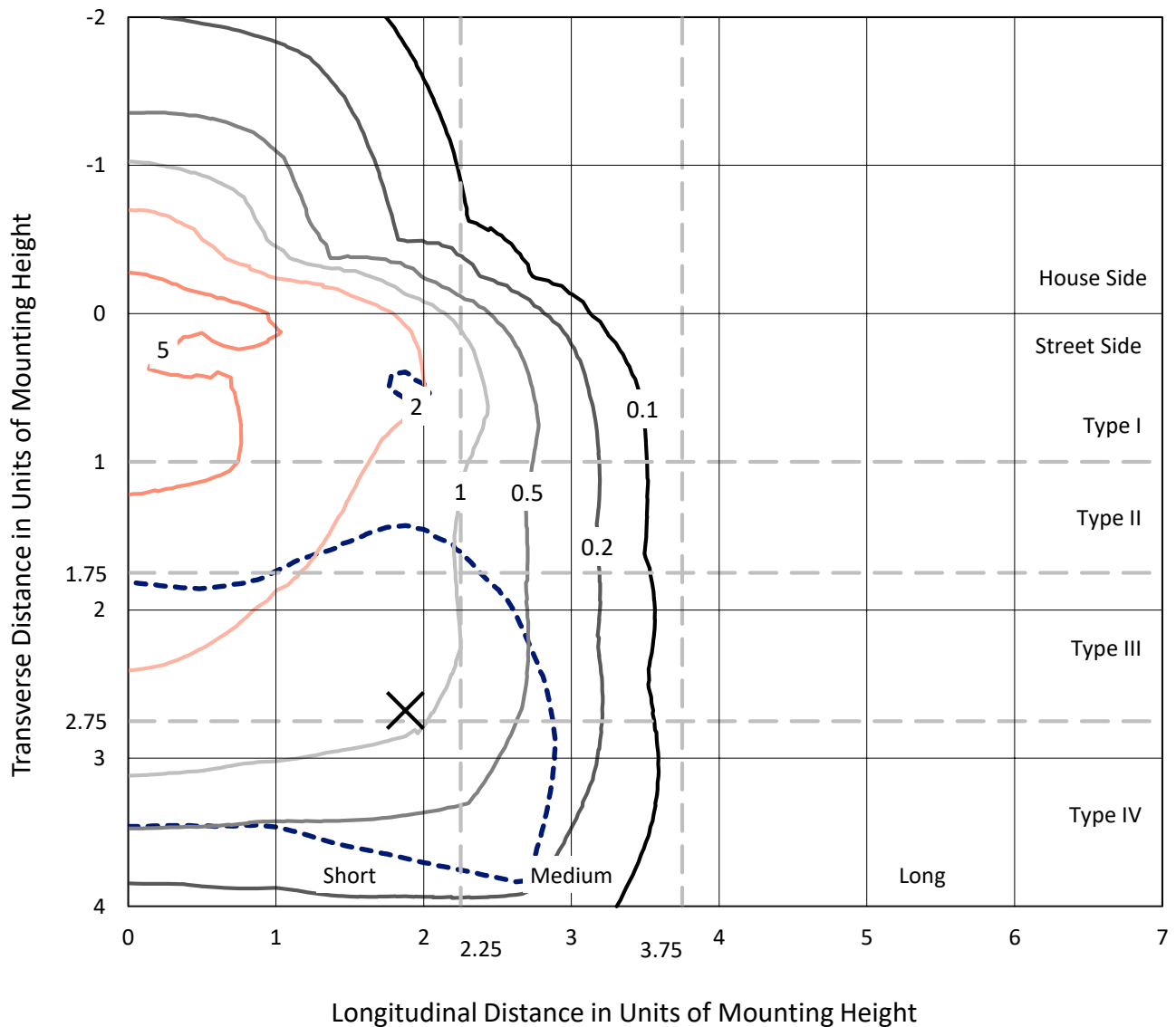
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

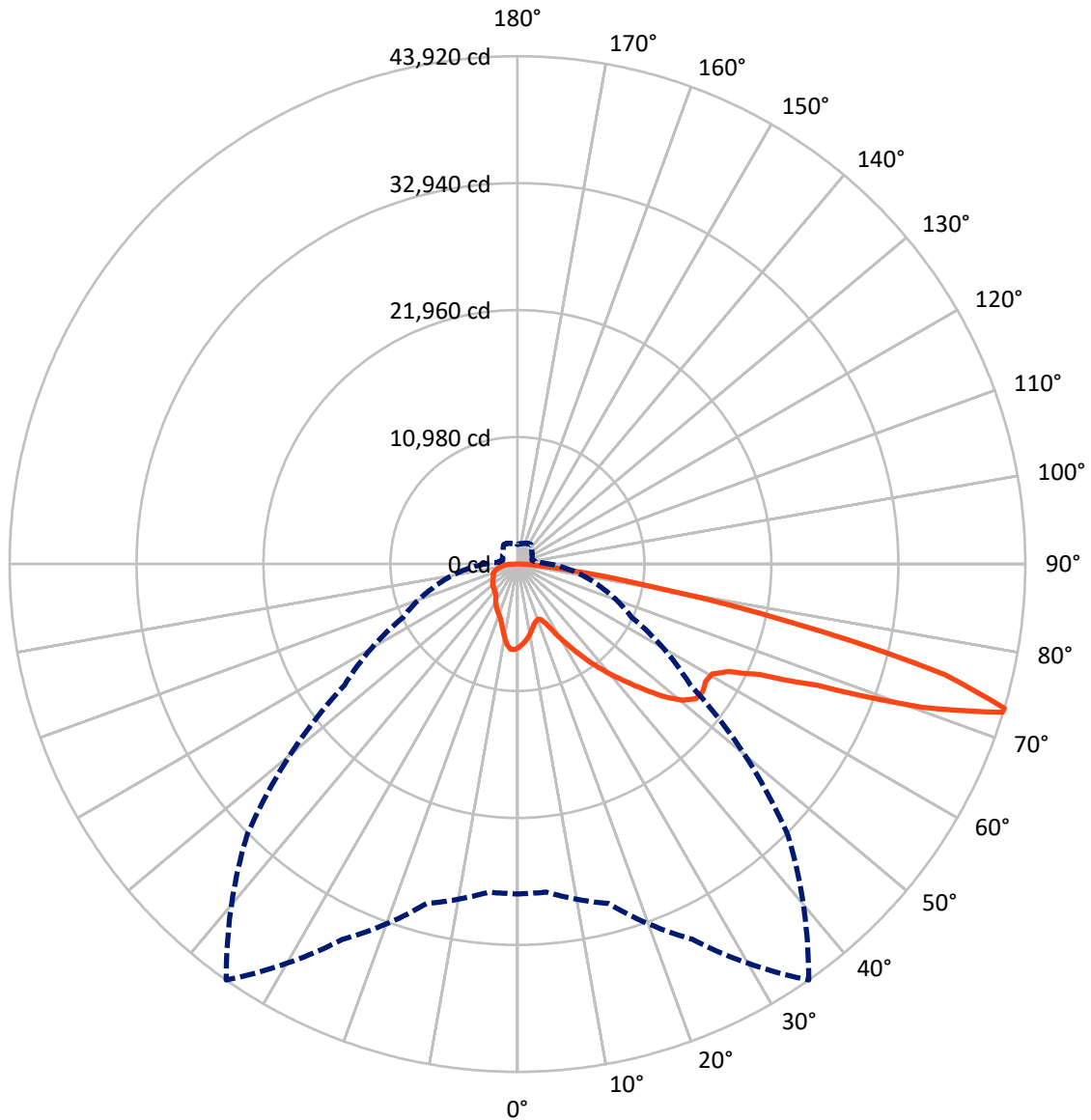
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 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 | 9153.4 | 0.0 | 9153.4 |
| | % Fixture | 19.1 | 0.0 | 19.1 |
| Street Side | Lumens | 38838.6 | 0.0 | 38838.6 |
| | % Fixture | 80.9 | 0.0 | 80.9 |
| Total | Lumens | 47992.0 | 0.0 | 47992.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 655.7 | 1.4 |
| 10°-20° | 1636.6 | 3.4 |
| 20°-30° | 2645.9 | 5.5 |
| 30°-40° | 4436.7 | 9.2 |
| 40°-50° | 6839.0 | 14.3 |
| 50°-60° | 9175.3 | 19.1 |
| 60°-70° | 12223.3 | 25.5 |
| 70°-80° | 9322.7 | 19.4 |
| 80°-90° | 1056.7 | 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° | 47992.0 | 100.0 |
| 0°-180° | 47992.0 | 100.0 |

Coefficient of Utilization



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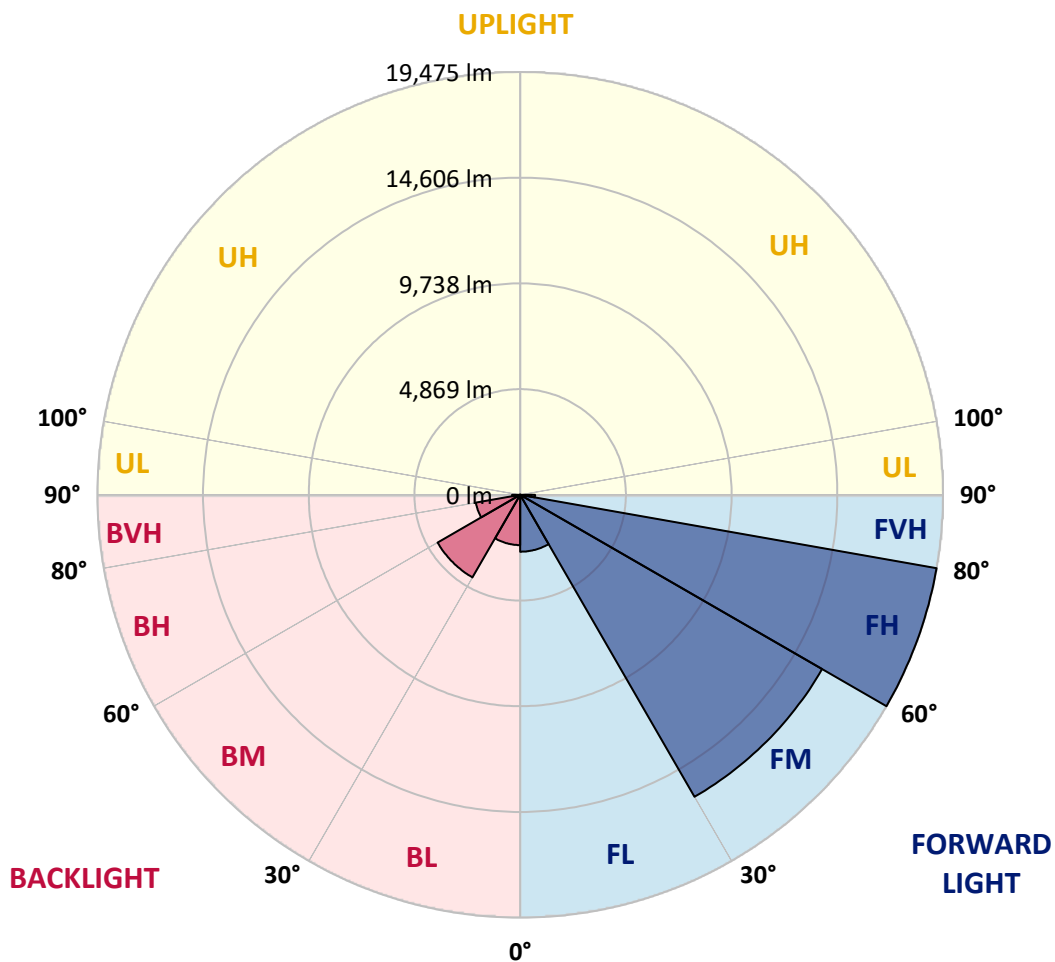
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2622.0 | 5.5 | | | |
| FM | (30°-60°) | 16058.4 | 33.5 | | | |
| FH | (60°-80°) | 19475.1 | 40.6 | | | G5 |
| FVH | (80°-90°) | 683.0 | 1.4 | | | G4/750 |
| BL | (0°-30°) | 2316.2 | 4.8 | B3/2500 | | |
| BM | (30°-60°) | 4392.6 | 9.2 | B3/5000 | | |
| BH | (60°-80°) | 2070.9 | 4.3 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 373.6 | 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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7243.5 | 7243.5 | 7243.5 | 7243.5 | 7243.5 | 7243.5 | 7243.5 | 7243.5 | 7243.5 | 7243.5 | 7243.5 |
| 2.5° | 6957.7 | 6971.5 | 6955.4 | 6976.1 | 7010.7 | 7047.6 | 7072.9 | 7109.8 | 7151.3 | 7208.9 | 7222.7 |
| 5° | 6630.4 | 6651.2 | 6651.2 | 6688.1 | 6754.9 | 6814.8 | 6870.1 | 6930.1 | 7017.6 | 7116.7 | 7155.9 |
| 7.5° | 6270.9 | 6282.4 | 6303.2 | 6358.5 | 6455.3 | 6540.6 | 6618.9 | 6715.7 | 6835.6 | 6966.9 | 7036.1 |
| 10° | 5837.7 | 5853.8 | 5886.1 | 5964.4 | 6095.8 | 6213.3 | 6326.2 | 6459.9 | 6612.0 | 6775.6 | 6863.2 |
| 12.5° | 5531.1 | 5526.5 | 5540.4 | 5598.0 | 5713.2 | 5856.1 | 6019.7 | 6190.3 | 6376.9 | 6568.2 | 6674.2 |
| 15° | 5427.4 | 5402.1 | 5349.1 | 5335.2 | 5397.5 | 5540.4 | 5729.3 | 5939.1 | 6162.6 | 6393.1 | 6524.4 |
| 17.5° | 5492.0 | 5448.2 | 5303.0 | 5197.0 | 5187.7 | 5296.1 | 5496.6 | 5731.6 | 5989.8 | 6270.9 | 6434.6 |
| 20° | 5897.6 | 5793.9 | 5436.6 | 5190.0 | 5104.8 | 5157.8 | 5332.9 | 5581.8 | 5886.1 | 6259.4 | 6469.1 |
| 22.5° | 6867.8 | 6715.7 | 5957.5 | 5498.9 | 5210.8 | 5146.3 | 5277.6 | 5542.7 | 5897.6 | 6402.3 | 6669.6 |
| 25° | 8280.6 | 8063.9 | 6851.7 | 6268.6 | 5674.0 | 5330.6 | 5360.6 | 5632.5 | 6061.2 | 6734.2 | 7056.8 |
| 27.5° | 9396.0 | 9255.4 | 8020.1 | 7354.1 | 6517.5 | 5828.4 | 5630.2 | 5858.4 | 6395.4 | 7278.1 | 7607.6 |
| 30° | 10059.8 | 9974.5 | 9269.3 | 8584.8 | 7593.8 | 6621.2 | 6146.5 | 6282.4 | 6918.5 | 8031.7 | 8303.6 |
| 32.5° | 10829.5 | 10778.8 | 10433.1 | 9803.9 | 8755.3 | 7662.9 | 6964.6 | 6916.2 | 7619.1 | 8937.4 | 9061.8 |
| 35° | 11626.9 | 11610.8 | 11408.0 | 10956.3 | 10002.1 | 9036.5 | 8050.1 | 7722.8 | 8382.0 | 9877.7 | 9799.3 |
| 37.5° | 12369.0 | 12341.3 | 12223.8 | 11961.1 | 11306.6 | 10511.5 | 9156.3 | 8550.2 | 9204.7 | 10776.5 | 10428.5 |
| 40° | 13735.7 | 13519.0 | 13115.7 | 12917.5 | 12624.8 | 11753.7 | 10034.4 | 9322.3 | 10057.4 | 11633.8 | 10972.4 |
| 42.5° | 15401.9 | 15049.3 | 14298.0 | 14026.0 | 13984.6 | 12733.1 | 10633.6 | 10071.3 | 10917.1 | 12484.2 | 11507.1 |
| 45° | 16713.2 | 16381.4 | 15733.8 | 15390.4 | 15542.5 | 13620.4 | 11235.1 | 10871.0 | 11802.1 | 13376.1 | 12057.9 |
| 47.5° | 18112.2 | 17591.3 | 16734.0 | 16837.7 | 17169.6 | 14459.3 | 11848.2 | 11730.6 | 12772.3 | 14374.0 | 12742.4 |
| 50° | 18162.9 | 17764.2 | 17388.5 | 18008.5 | 18524.7 | 15231.4 | 12615.6 | 12631.7 | 13959.2 | 15630.1 | 13652.7 |
| 52.5° | 17109.6 | 17024.4 | 17621.3 | 18596.1 | 19340.5 | 15842.1 | 13489.1 | 13562.8 | 15478.0 | 17072.8 | 14652.9 |
| 55° | 16740.9 | 16644.1 | 17333.2 | 18391.0 | 19451.2 | 16346.8 | 14436.3 | 14569.9 | 17314.8 | 18593.8 | 15627.8 |
| 57.5° | 17639.7 | 17425.4 | 17471.5 | 18294.2 | 19181.5 | 16899.9 | 15468.7 | 15738.4 | 19310.6 | 19923.6 | 16254.6 |
| 60° | 20151.8 | 19693.1 | 18822.0 | 18801.3 | 19326.7 | 17729.6 | 16662.5 | 16992.1 | 21384.8 | 20559.7 | 16010.3 |
| 62.5° | 23675.6 | 23216.9 | 21585.3 | 20522.8 | 20444.5 | 19098.6 | 18128.3 | 18215.9 | 22583.2 | 19697.8 | 14519.2 |
| 65° | 27489.7 | 27079.5 | 25256.6 | 23756.2 | 23032.6 | 21366.3 | 19831.4 | 18762.1 | 22191.4 | 17326.3 | 11910.4 |
| 67.5° | 32119.8 | 31679.6 | 30112.4 | 28727.3 | 28031.3 | 25026.1 | 21027.5 | 18238.9 | 19704.7 | 13422.2 | 8561.7 |
| 70° | 35357.8 | 34908.4 | 34290.7 | 35413.1 | 37116.2 | 30306.0 | 21181.9 | 16111.7 | 14717.4 | 8921.3 | 5153.2 |
| 72.5° | 31133.4 | 30923.7 | 32050.6 | 36777.4 | 43871.1 | 33509.5 | 19146.9 | 11730.6 | 8547.9 | 4736.0 | 2982.2 |
| 73° | 28524.5 | 28478.4 | 30400.5 | 35821.0 | 43919.5 | 33016.3 | 18255.1 | 10903.3 | 7331.1 | 4189.8 | 2726.4 |
| 75° | 12880.6 | 13251.7 | 17464.6 | 27360.7 | 38157.9 | 27206.3 | 12848.4 | 6254.8 | 4141.4 | 2894.6 | 2058.0 |
| 77.5° | 3095.1 | 3224.2 | 5464.3 | 12993.6 | 24097.3 | 16213.1 | 5821.5 | 3092.8 | 2648.0 | 2044.2 | 1502.6 |
| 80° | 1318.3 | 1362.0 | 2104.1 | 4800.6 | 11345.7 | 6529.0 | 2682.6 | 2071.9 | 1832.2 | 1426.6 | 1053.2 |
| 82.5° | 732.9 | 779.0 | 1193.8 | 2177.9 | 4579.3 | 2226.3 | 1636.3 | 1442.7 | 1205.3 | 859.6 | 684.5 |
| 85° | 414.8 | 440.2 | 698.3 | 1216.8 | 1940.5 | 894.2 | 979.5 | 958.7 | 679.9 | 442.5 | 336.5 |
| 87.5° | 195.9 | 212.0 | 336.5 | 564.6 | 760.5 | 350.3 | 497.8 | 548.5 | 426.4 | 269.6 | 175.2 |
| 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° | 7243.5 | 7243.5 | 7243.5 | 7243.5 | 7243.5 | 7243.5 | 7243.5 | 7243.5 | 7243.5 | 7243.5 |
| 2.5° | 7238.9 | 7280.4 | 7328.8 | 7354.1 | 7377.2 | 7404.8 | 7432.5 | 7432.5 | 7437.1 | 7439.4 |
| 5° | 7188.2 | 7273.4 | 7349.5 | 7381.8 | 7388.7 | 7388.7 | 7381.8 | 7344.9 | 7312.6 | 7326.5 |
| 7.5° | 7082.2 | 7206.6 | 7271.1 | 7259.6 | 7172.0 | 7070.6 | 6985.4 | 6881.7 | 6828.6 | 6819.4 |
| 10° | 6930.1 | 7072.9 | 7084.5 | 6969.2 | 6752.6 | 6536.0 | 6356.2 | 6181.0 | 6098.1 | 6077.3 |
| 12.5° | 6761.8 | 6893.2 | 6819.4 | 6582.1 | 6234.1 | 5918.3 | 5690.2 | 5512.7 | 5434.3 | 5413.6 |
| 15° | 6625.8 | 6715.7 | 6529.0 | 6155.7 | 5717.8 | 5383.6 | 5194.7 | 5063.3 | 5008.0 | 4991.9 |
| 17.5° | 6554.4 | 6572.8 | 6231.7 | 5727.0 | 5261.5 | 4982.6 | 4865.1 | 4802.9 | 4782.1 | 4770.6 |
| 20° | 6589.0 | 6459.9 | 5948.3 | 5328.3 | 4888.1 | 4692.2 | 4664.6 | 4648.5 | 4643.8 | 4636.9 |
| 22.5° | 6761.8 | 6425.3 | 5687.9 | 4950.4 | 4560.9 | 4475.6 | 4498.7 | 4496.4 | 4491.7 | 4487.1 |
| 25° | 7070.6 | 6455.3 | 5434.3 | 4590.8 | 4286.6 | 4268.2 | 4309.7 | 4309.7 | 4291.2 | 4291.2 |
| 27.5° | 7478.6 | 6517.5 | 5150.9 | 4249.8 | 4037.7 | 4040.0 | 4072.3 | 4063.1 | 4042.3 | 4028.5 |
| 30° | 7976.4 | 6556.7 | 4819.0 | 3943.2 | 3805.0 | 3795.7 | 3805.0 | 3765.8 | 3703.6 | 3698.9 |
| 32.5° | 8485.7 | 6508.3 | 4434.1 | 3671.3 | 3558.4 | 3537.6 | 3530.7 | 3475.4 | 3404.0 | 3383.2 |
| 35° | 8946.6 | 6330.8 | 4042.3 | 3454.7 | 3323.3 | 3277.2 | 3309.5 | 3291.0 | 3226.5 | 3210.4 |
| 37.5° | 9283.1 | 6001.3 | 3689.7 | 3263.4 | 3155.1 | 3143.5 | 3164.3 | 3171.2 | 3095.1 | 3079.0 |
| 40° | 9508.9 | 5554.2 | 3387.8 | 3102.0 | 3122.8 | 3079.0 | 3009.9 | 2961.5 | 2938.4 | 2931.5 |
| 42.5° | 9691.0 | 5088.6 | 3134.3 | 3026.0 | 3129.7 | 3002.9 | 2853.1 | 2774.8 | 2816.3 | 2834.7 |
| 45° | 9900.7 | 4634.6 | 2922.3 | 2931.5 | 3095.1 | 2915.4 | 2744.8 | 2668.8 | 2684.9 | 2689.5 |
| 47.5° | 10188.8 | 4081.5 | 2694.1 | 2779.4 | 2979.9 | 2855.4 | 2678.0 | 2569.7 | 2493.6 | 2459.1 |
| 50° | 10587.5 | 3427.0 | 2456.7 | 2608.9 | 2867.0 | 2811.7 | 2574.3 | 2459.1 | 2318.5 | 2286.2 |
| 52.5° | 10864.1 | 2816.3 | 2260.9 | 2466.0 | 2765.6 | 2724.1 | 2491.3 | 2341.5 | 2194.0 | 2166.4 |
| 55° | 10714.3 | 2339.2 | 2090.3 | 2306.9 | 2631.9 | 2615.8 | 2422.2 | 2221.7 | 2106.4 | 2083.4 |
| 57.5° | 9965.3 | 2037.3 | 1958.9 | 2157.1 | 2468.3 | 2523.6 | 2330.0 | 2120.3 | 2037.3 | 2021.2 |
| 60° | 8536.4 | 1848.3 | 1876.0 | 2055.7 | 2334.6 | 2431.4 | 2237.8 | 2065.0 | 2009.6 | 1998.1 |
| 62.5° | 6623.5 | 1721.6 | 1813.8 | 1982.0 | 2230.9 | 2366.9 | 2187.1 | 2058.0 | 2037.3 | 2023.5 |
| 65° | 4745.3 | 1620.2 | 1746.9 | 1908.2 | 2136.4 | 2306.9 | 2168.7 | 2048.8 | 2053.4 | 2041.9 |
| 67.5° | 3224.2 | 1530.3 | 1666.3 | 1825.3 | 2044.2 | 2253.9 | 2143.3 | 2016.6 | 2074.2 | 2060.3 |
| 70° | 2256.2 | 1442.7 | 1571.8 | 1719.3 | 1929.0 | 2180.2 | 2097.2 | 1968.2 | 1963.6 | 1908.2 |
| 72.5° | 1760.7 | 1327.5 | 1442.7 | 1571.8 | 1781.5 | 2076.5 | 2005.0 | 1859.8 | 1783.8 | 1726.2 |
| 73° | 1680.1 | 1299.8 | 1410.4 | 1539.5 | 1749.2 | 2051.1 | 1979.7 | 1829.9 | 1744.6 | 1691.6 |
| 75° | 1389.7 | 1180.0 | 1281.4 | 1396.6 | 1610.9 | 1931.3 | 1855.2 | 1693.9 | 1585.6 | 1553.3 |
| 77.5° | 1092.4 | 1009.4 | 1106.2 | 1209.9 | 1419.7 | 1756.1 | 1670.9 | 1516.5 | 1456.5 | 1428.9 |
| 80° | 808.9 | 836.6 | 921.9 | 1014.0 | 1230.7 | 1569.5 | 1493.4 | 1339.0 | 1606.3 | 1539.5 |
| 82.5° | 569.2 | 633.8 | 712.1 | 795.1 | 1032.5 | 1387.4 | 1295.2 | 1136.2 | 1175.4 | 977.2 |
| 85° | 336.5 | 414.8 | 488.6 | 560.0 | 744.4 | 1150.0 | 1069.4 | 905.7 | 742.1 | 707.5 |
| 87.5° | 195.9 | 230.5 | 251.2 | 325.0 | 511.6 | 866.5 | 753.6 | 670.7 | 384.9 | 260.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)