

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: P193276

Luminaire Tested: **GAN-AF-08-LED-U-T4FT-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193276
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-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 46416.6 lumens
Efficiency: N/A
Efficacy: 104.3 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

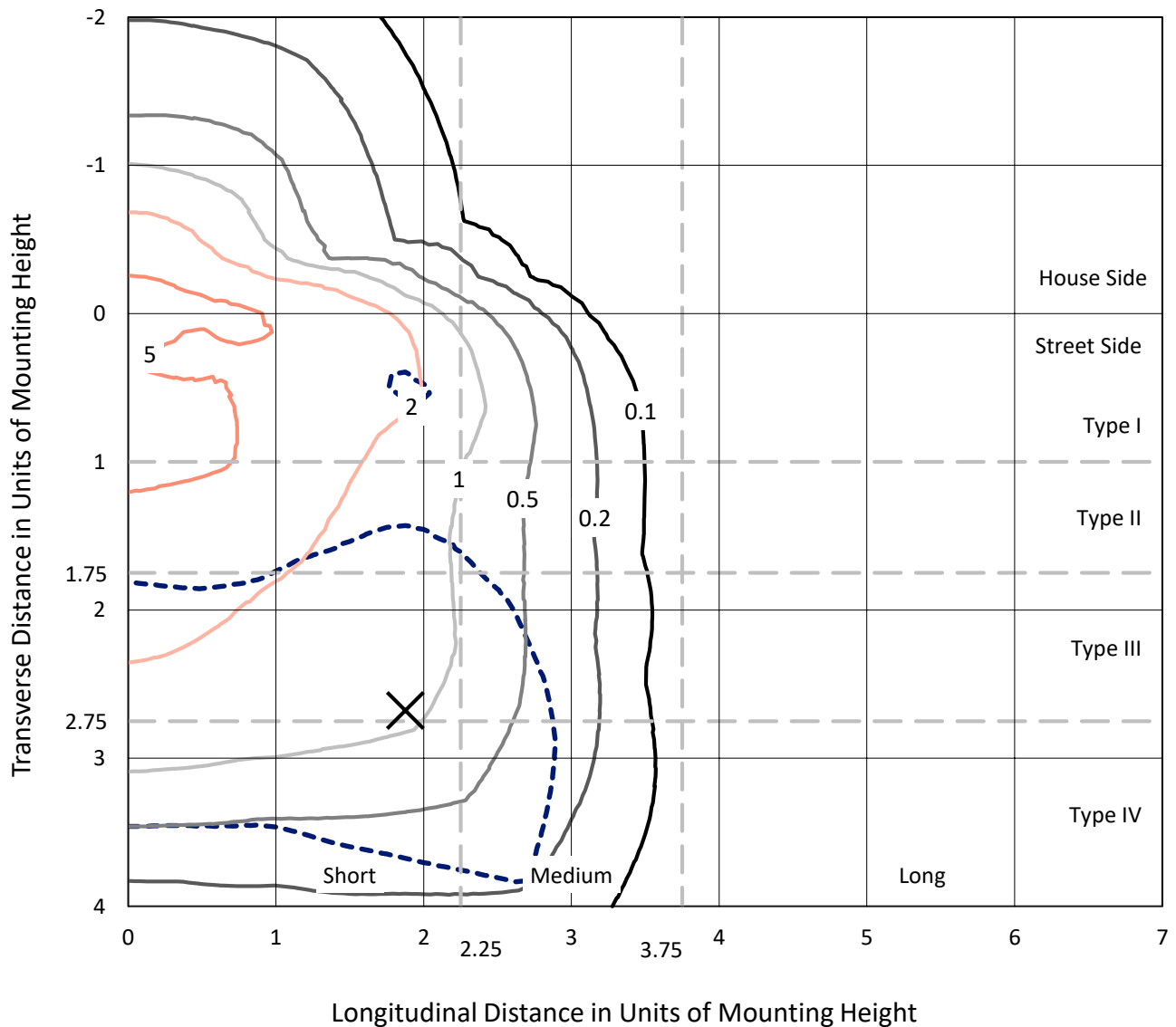
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

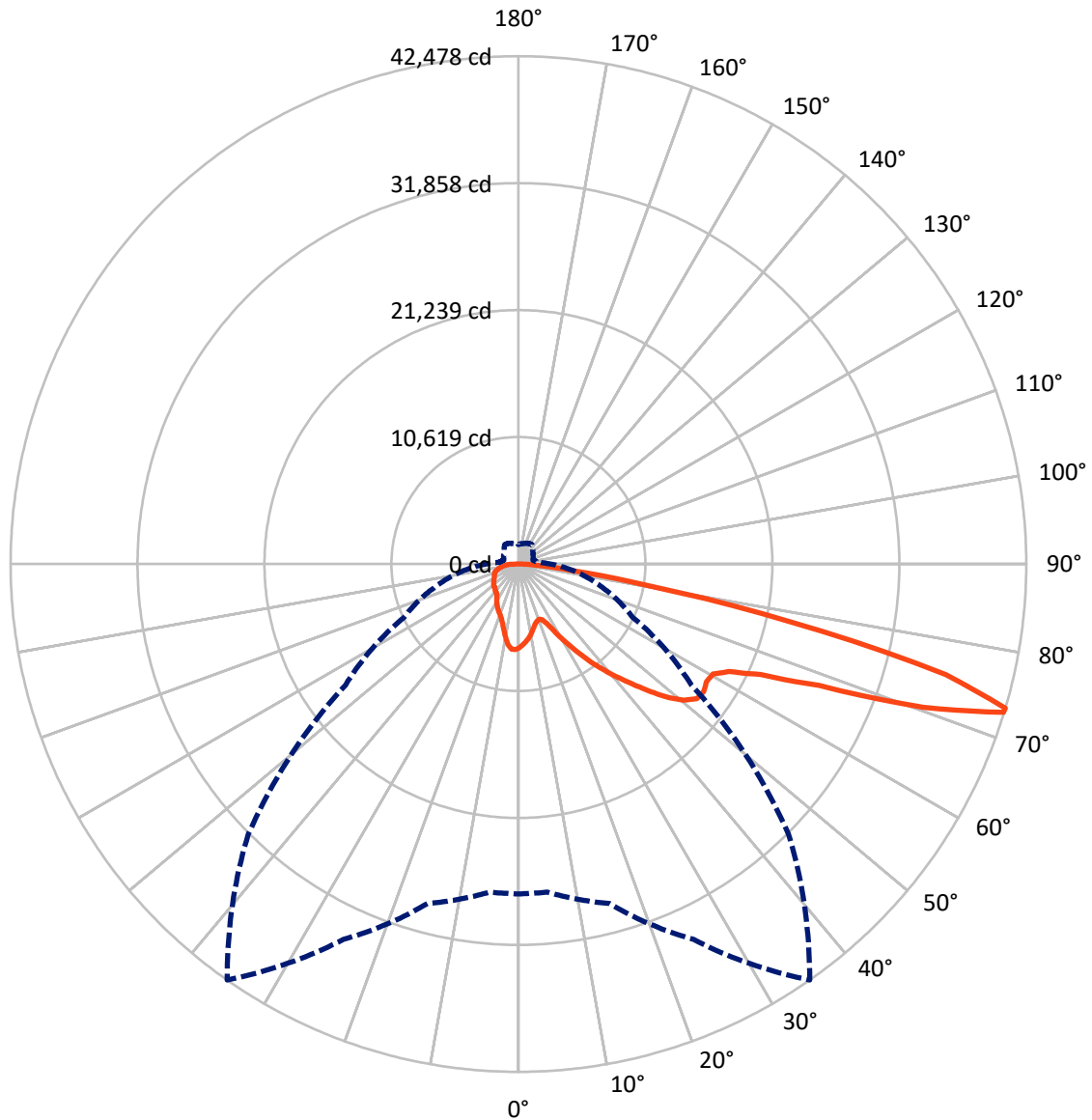
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 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 | 8852.9 | 0.0 | 8852.9 |
| | % Fixture | 19.1 | 0.0 | 19.1 |
| Street Side | Lumens | 37563.7 | 0.0 | 37563.7 |
| | % Fixture | 80.9 | 0.0 | 80.9 |
| Total | Lumens | 46416.6 | 0.0 | 46416.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 634.2 | 1.4 |
| 10°-20° | 1582.9 | 3.4 |
| 20°-30° | 2559.0 | 5.5 |
| 30°-40° | 4291.1 | 9.2 |
| 40°-50° | 6614.5 | 14.3 |
| 50°-60° | 8874.1 | 19.1 |
| 60°-70° | 11822.1 | 25.5 |
| 70°-80° | 9016.7 | 19.4 |
| 80°-90° | 1022.0 | 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° | 46416.6 | 100.0 |
| 0°-180° | 46416.6 | 100.0 |

Coefficient of Utilization



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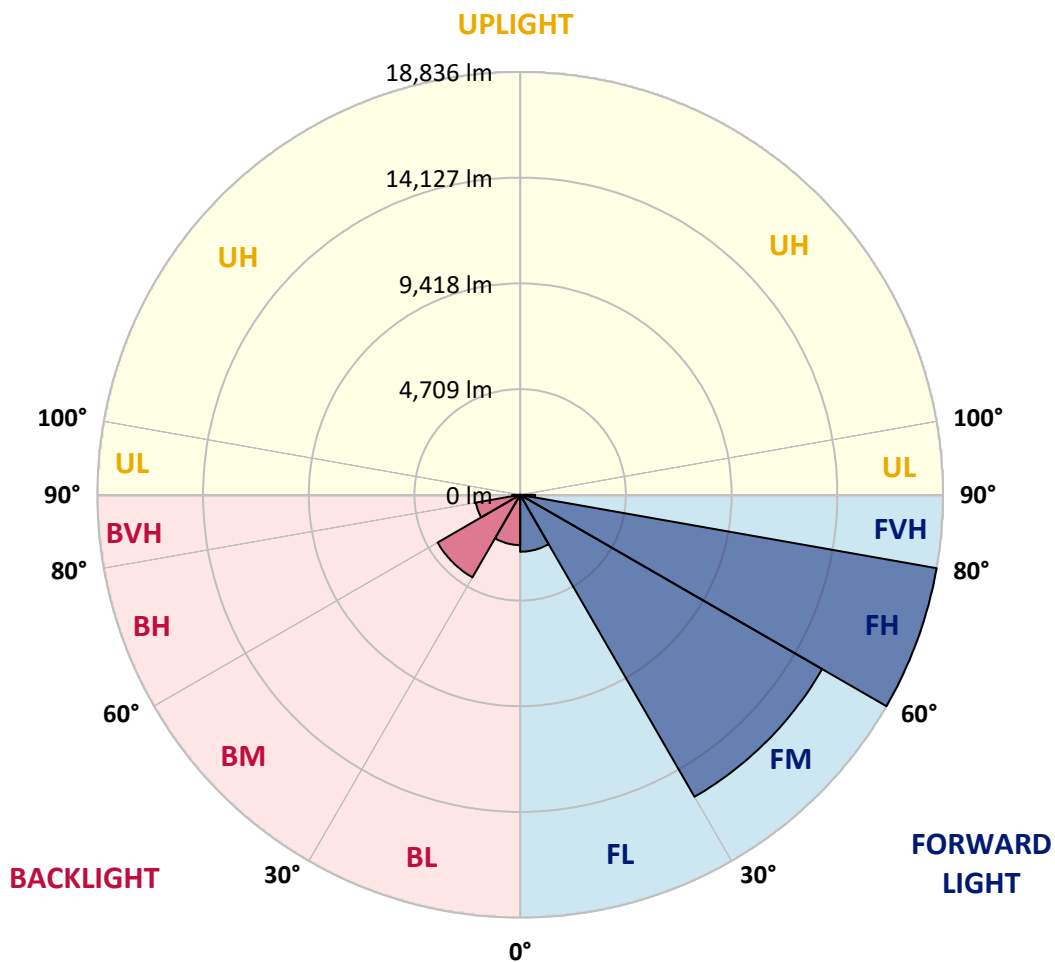
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2535.9 | 5.5 | | | |
| FM | (30°-60°) | 15531.3 | 33.5 | | | |
| FH | (60°-80°) | 18835.8 | 40.6 | | | G5 |
| FVH | (80°-90°) | 660.6 | 1.4 | | | G4/750 |
| BL | (0°-30°) | 2240.2 | 4.8 | B3/2500 | | |
| BM | (30°-60°) | 4248.4 | 9.2 | B3/5000 | | |
| BH | (60°-80°) | 2002.9 | 4.3 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 361.4 | 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° | 7005.7 | 7005.7 | 7005.7 | 7005.7 | 7005.7 | 7005.7 | 7005.7 | 7005.7 | 7005.7 | 7005.7 | 7005.7 |
| 2.5° | 6729.3 | 6742.7 | 6727.1 | 6747.2 | 6780.6 | 6816.2 | 6840.7 | 6876.4 | 6916.5 | 6972.3 | 6985.6 |
| 5° | 6412.8 | 6432.8 | 6432.8 | 6468.4 | 6533.1 | 6591.1 | 6644.6 | 6702.6 | 6787.3 | 6883.2 | 6921.0 |
| 7.5° | 6065.1 | 6076.2 | 6096.2 | 6149.7 | 6243.4 | 6325.9 | 6401.6 | 6495.3 | 6611.2 | 6738.2 | 6805.1 |
| 10° | 5646.0 | 5661.6 | 5692.9 | 5768.7 | 5895.6 | 6009.4 | 6118.5 | 6247.9 | 6395.0 | 6553.3 | 6637.9 |
| 12.5° | 5349.6 | 5345.1 | 5358.5 | 5414.3 | 5525.7 | 5663.9 | 5822.1 | 5987.1 | 6167.5 | 6352.7 | 6455.1 |
| 15° | 5249.3 | 5224.8 | 5173.5 | 5160.1 | 5220.3 | 5358.5 | 5541.3 | 5744.1 | 5960.3 | 6183.2 | 6310.3 |
| 17.5° | 5311.6 | 5269.3 | 5128.8 | 5026.4 | 5017.4 | 5122.2 | 5316.1 | 5543.5 | 5793.2 | 6065.1 | 6223.3 |
| 20° | 5704.0 | 5603.7 | 5258.2 | 5019.7 | 4937.2 | 4988.4 | 5157.9 | 5398.6 | 5692.9 | 6053.9 | 6256.7 |
| 22.5° | 6642.4 | 6495.3 | 5761.9 | 5318.4 | 5039.7 | 4977.3 | 5104.4 | 5360.7 | 5704.0 | 6192.2 | 6450.6 |
| 25° | 8008.7 | 7799.3 | 6626.8 | 6062.8 | 5487.8 | 5155.6 | 5184.7 | 5447.6 | 5862.2 | 6513.1 | 6825.2 |
| 27.5° | 9087.5 | 8951.6 | 7756.9 | 7112.7 | 6303.6 | 5637.1 | 5445.4 | 5666.0 | 6185.5 | 7039.1 | 7357.8 |
| 30° | 9729.5 | 9647.0 | 8964.9 | 8302.9 | 7344.5 | 6403.9 | 5944.7 | 6076.2 | 6691.5 | 7768.0 | 8031.0 |
| 32.5° | 10474.0 | 10425.0 | 10090.6 | 9482.1 | 8467.9 | 7411.4 | 6736.1 | 6689.2 | 7369.0 | 8644.0 | 8764.3 |
| 35° | 11245.3 | 11229.6 | 11033.4 | 10596.6 | 9673.9 | 8739.8 | 7785.9 | 7469.3 | 8106.8 | 9553.4 | 9477.7 |
| 37.5° | 11963.1 | 11936.2 | 11822.5 | 11568.5 | 10935.4 | 10166.5 | 8855.8 | 8269.5 | 8902.6 | 10422.8 | 10086.2 |
| 40° | 13284.8 | 13075.3 | 12685.2 | 12493.5 | 12210.4 | 11367.9 | 9705.1 | 9016.3 | 9727.4 | 11251.9 | 10612.3 |
| 42.5° | 14896.3 | 14555.3 | 13828.6 | 13565.6 | 13525.5 | 12315.1 | 10284.6 | 9740.7 | 10558.7 | 12074.5 | 11129.3 |
| 45° | 16164.6 | 15843.6 | 15217.3 | 14885.2 | 15032.3 | 13173.3 | 10866.3 | 10514.1 | 11414.7 | 12937.1 | 11662.2 |
| 47.5° | 17517.6 | 17013.9 | 16184.7 | 16285.0 | 16606.0 | 13984.6 | 11459.2 | 11345.6 | 12353.1 | 13902.1 | 12324.1 |
| 50° | 17566.7 | 17181.0 | 16817.7 | 17417.3 | 17916.6 | 14731.4 | 12201.5 | 12217.1 | 13500.9 | 15117.0 | 13204.5 |
| 52.5° | 16548.0 | 16465.5 | 17042.8 | 17985.7 | 18705.6 | 15322.1 | 13046.2 | 13117.5 | 14969.8 | 16512.4 | 14171.9 |
| 55° | 16191.3 | 16097.7 | 16764.2 | 17787.3 | 18812.7 | 15810.3 | 13962.4 | 14091.7 | 16746.3 | 17983.5 | 15114.8 |
| 57.5° | 17060.8 | 16853.4 | 16897.9 | 17693.7 | 18551.9 | 16345.1 | 14961.0 | 15221.8 | 18676.7 | 19269.6 | 15721.1 |
| 60° | 19490.3 | 19046.7 | 18204.1 | 18184.1 | 18692.3 | 17147.5 | 16115.6 | 16434.3 | 20682.8 | 19884.7 | 15484.8 |
| 62.5° | 22898.3 | 22454.9 | 20876.7 | 19849.1 | 19773.3 | 18471.6 | 17533.3 | 17617.9 | 21841.8 | 19051.2 | 14042.6 |
| 65° | 26587.3 | 26190.6 | 24427.5 | 22976.4 | 22276.6 | 20665.0 | 19180.5 | 18146.3 | 21462.9 | 16757.5 | 11519.4 |
| 67.5° | 31065.3 | 30639.7 | 29123.9 | 27784.3 | 27111.1 | 24204.5 | 20337.3 | 17640.2 | 19057.9 | 12981.6 | 8280.6 |
| 70° | 34197.2 | 33762.5 | 33165.1 | 34250.6 | 35897.9 | 29311.2 | 20486.6 | 15582.9 | 14234.3 | 8628.4 | 4984.0 |
| 72.5° | 30111.5 | 29908.5 | 30998.5 | 35570.2 | 42431.1 | 32409.5 | 18518.5 | 11345.6 | 8267.3 | 4580.5 | 2884.3 |
| 73° | 27588.2 | 27543.6 | 29402.5 | 34645.1 | 42477.9 | 31932.4 | 17655.9 | 10545.3 | 7090.4 | 4052.3 | 2636.9 |
| 75° | 12457.8 | 12816.6 | 16891.3 | 26462.6 | 36905.4 | 26313.2 | 12426.6 | 6049.4 | 4005.5 | 2799.7 | 1990.4 |
| 77.5° | 2993.4 | 3118.4 | 5285.0 | 12567.0 | 23306.3 | 15680.9 | 5630.4 | 2991.3 | 2561.1 | 1977.1 | 1453.2 |
| 80° | 1274.9 | 1317.3 | 2035.1 | 4643.0 | 10973.4 | 6314.7 | 2594.6 | 2003.9 | 1772.0 | 1379.7 | 1018.7 |
| 82.5° | 708.8 | 753.5 | 1154.7 | 2106.4 | 4429.1 | 2153.2 | 1582.6 | 1395.4 | 1165.8 | 831.5 | 662.0 |
| 85° | 401.2 | 425.8 | 675.3 | 1176.9 | 1876.8 | 864.9 | 947.3 | 927.3 | 657.5 | 428.0 | 325.5 |
| 87.5° | 189.4 | 205.1 | 325.5 | 546.1 | 735.6 | 338.8 | 481.5 | 530.5 | 412.4 | 260.8 | 169.4 |
| 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° | 7005.7 | 7005.7 | 7005.7 | 7005.7 | 7005.7 | 7005.7 | 7005.7 | 7005.7 | 7005.7 | 7005.7 |
| 2.5° | 7001.3 | 7041.3 | 7088.2 | 7112.7 | 7134.9 | 7161.7 | 7188.5 | 7188.5 | 7193.0 | 7195.2 |
| 5° | 6952.1 | 7034.6 | 7108.2 | 7139.4 | 7146.1 | 7146.1 | 7139.4 | 7103.8 | 7072.6 | 7085.9 |
| 7.5° | 6849.7 | 6970.0 | 7032.5 | 7021.3 | 6936.7 | 6838.5 | 6756.0 | 6655.7 | 6604.5 | 6595.6 |
| 10° | 6702.6 | 6840.7 | 6851.8 | 6740.4 | 6531.0 | 6321.4 | 6147.6 | 5978.1 | 5898.0 | 5877.8 |
| 12.5° | 6539.8 | 6666.9 | 6595.6 | 6366.0 | 6029.4 | 5724.1 | 5503.4 | 5331.8 | 5255.9 | 5235.9 |
| 15° | 6408.4 | 6495.3 | 6314.7 | 5953.6 | 5530.1 | 5207.0 | 5024.2 | 4897.1 | 4843.6 | 4827.9 |
| 17.5° | 6339.2 | 6357.0 | 6027.2 | 5539.0 | 5088.8 | 4819.1 | 4705.4 | 4645.1 | 4625.2 | 4614.0 |
| 20° | 6372.6 | 6247.9 | 5753.0 | 5153.4 | 4727.6 | 4538.2 | 4511.5 | 4495.9 | 4491.4 | 4484.8 |
| 22.5° | 6539.8 | 6214.4 | 5501.1 | 4787.8 | 4411.2 | 4328.8 | 4351.0 | 4348.7 | 4344.2 | 4339.9 |
| 25° | 6838.5 | 6243.4 | 5255.9 | 4440.2 | 4146.0 | 4128.1 | 4168.2 | 4168.2 | 4150.3 | 4150.3 |
| 27.5° | 7233.1 | 6303.6 | 4981.7 | 4110.3 | 3905.2 | 3907.4 | 3938.6 | 3929.7 | 3909.7 | 3896.3 |
| 30° | 7714.6 | 6341.5 | 4660.8 | 3813.8 | 3680.1 | 3671.1 | 3680.1 | 3642.1 | 3581.9 | 3577.4 |
| 32.5° | 8207.1 | 6294.7 | 4288.5 | 3550.8 | 3441.5 | 3421.5 | 3414.8 | 3361.4 | 3292.2 | 3272.2 |
| 35° | 8652.9 | 6123.0 | 3909.7 | 3341.2 | 3214.2 | 3169.6 | 3200.9 | 3182.9 | 3120.6 | 3104.9 |
| 37.5° | 8978.4 | 5804.3 | 3568.6 | 3156.3 | 3051.5 | 3040.3 | 3060.4 | 3067.1 | 2993.4 | 2978.0 |
| 40° | 9196.8 | 5371.8 | 3276.5 | 3000.3 | 3020.3 | 2978.0 | 2911.1 | 2864.2 | 2842.0 | 2835.3 |
| 42.5° | 9373.0 | 4921.6 | 3031.4 | 2926.6 | 3026.9 | 2904.3 | 2759.5 | 2683.7 | 2723.9 | 2741.7 |
| 45° | 9575.7 | 4482.5 | 2826.3 | 2835.3 | 2993.4 | 2819.7 | 2654.7 | 2581.1 | 2596.8 | 2601.3 |
| 47.5° | 9854.3 | 3947.5 | 2605.8 | 2688.1 | 2882.0 | 2761.7 | 2590.1 | 2485.3 | 2411.8 | 2378.3 |
| 50° | 10240.0 | 3314.5 | 2376.1 | 2523.3 | 2772.9 | 2719.4 | 2489.8 | 2378.3 | 2242.3 | 2211.2 |
| 52.5° | 10507.5 | 2723.9 | 2186.6 | 2385.0 | 2674.7 | 2634.7 | 2409.5 | 2264.6 | 2122.1 | 2095.3 |
| 55° | 10362.5 | 2262.4 | 2021.8 | 2231.2 | 2545.5 | 2529.9 | 2342.6 | 2148.7 | 2037.2 | 2015.0 |
| 57.5° | 9638.2 | 1970.4 | 1894.7 | 2086.3 | 2387.2 | 2440.8 | 2253.5 | 2050.7 | 1970.4 | 1954.8 |
| 60° | 8256.1 | 1787.7 | 1814.4 | 1988.3 | 2258.0 | 2351.6 | 2164.3 | 1997.2 | 1943.7 | 1932.6 |
| 62.5° | 6406.1 | 1665.0 | 1754.2 | 1917.0 | 2157.7 | 2289.2 | 2115.3 | 1990.4 | 1970.4 | 1957.1 |
| 65° | 4589.4 | 1567.0 | 1689.5 | 1845.6 | 2066.3 | 2231.2 | 2097.4 | 1981.5 | 1986.0 | 1974.9 |
| 67.5° | 3118.4 | 1480.0 | 1611.6 | 1765.4 | 1977.1 | 2179.9 | 2072.9 | 1950.4 | 2006.1 | 1992.7 |
| 70° | 2182.1 | 1395.4 | 1520.2 | 1662.8 | 1865.7 | 2108.6 | 2028.4 | 1903.6 | 1899.2 | 1845.6 |
| 72.5° | 1703.0 | 1283.9 | 1395.4 | 1520.2 | 1723.0 | 2008.3 | 1939.3 | 1798.9 | 1725.2 | 1669.5 |
| 73° | 1624.9 | 1257.1 | 1364.1 | 1488.9 | 1691.8 | 1983.8 | 1914.7 | 1769.8 | 1687.3 | 1636.0 |
| 75° | 1344.1 | 1141.2 | 1239.3 | 1350.8 | 1558.0 | 1867.9 | 1794.4 | 1638.4 | 1533.6 | 1502.4 |
| 77.5° | 1056.5 | 976.3 | 1069.8 | 1170.1 | 1373.1 | 1698.4 | 1616.1 | 1466.7 | 1408.7 | 1382.0 |
| 80° | 782.4 | 809.2 | 891.5 | 980.7 | 1190.3 | 1517.9 | 1444.4 | 1295.0 | 1553.5 | 1488.9 |
| 82.5° | 550.5 | 613.0 | 688.8 | 768.9 | 998.6 | 1341.8 | 1252.6 | 1098.9 | 1136.8 | 945.1 |
| 85° | 325.5 | 401.2 | 472.5 | 541.6 | 719.9 | 1112.3 | 1034.2 | 876.0 | 717.8 | 684.3 |
| 87.5° | 189.4 | 222.9 | 243.0 | 314.3 | 494.8 | 838.1 | 728.9 | 648.7 | 372.2 | 251.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)