

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: P193107

Luminaire Tested: **GAN-AF-09-LED-U-T2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193107
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-T2-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40805 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G5

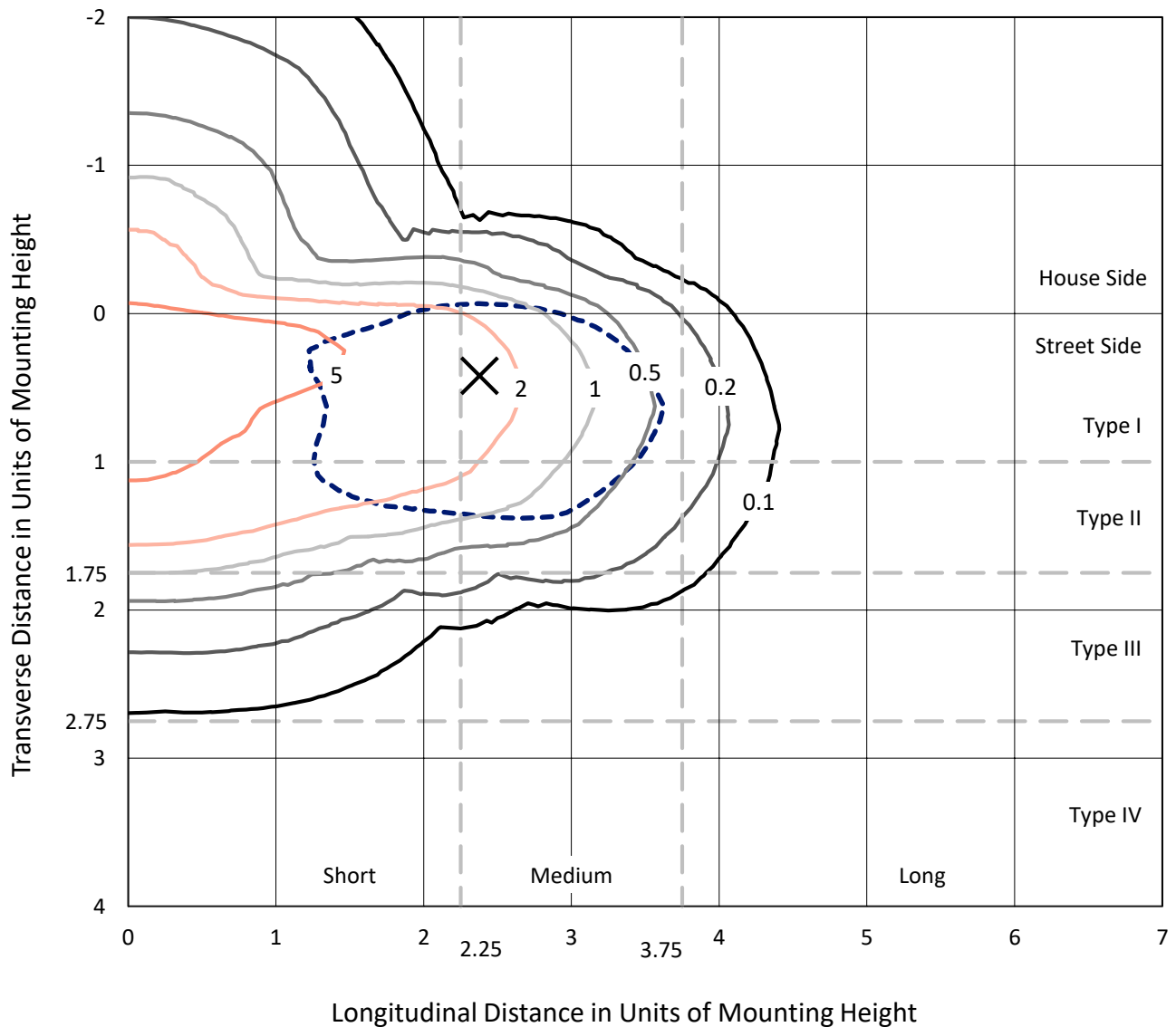
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

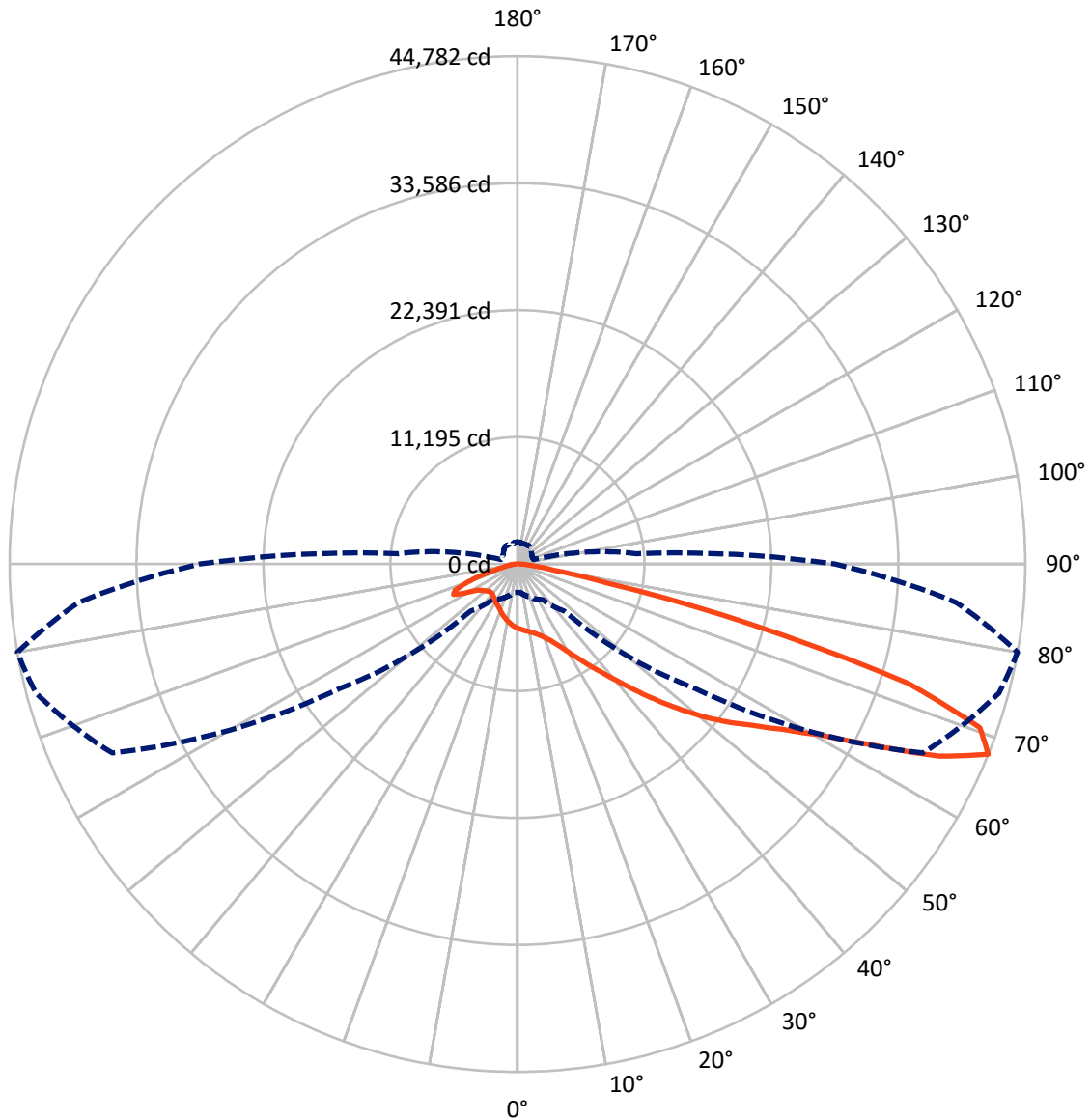
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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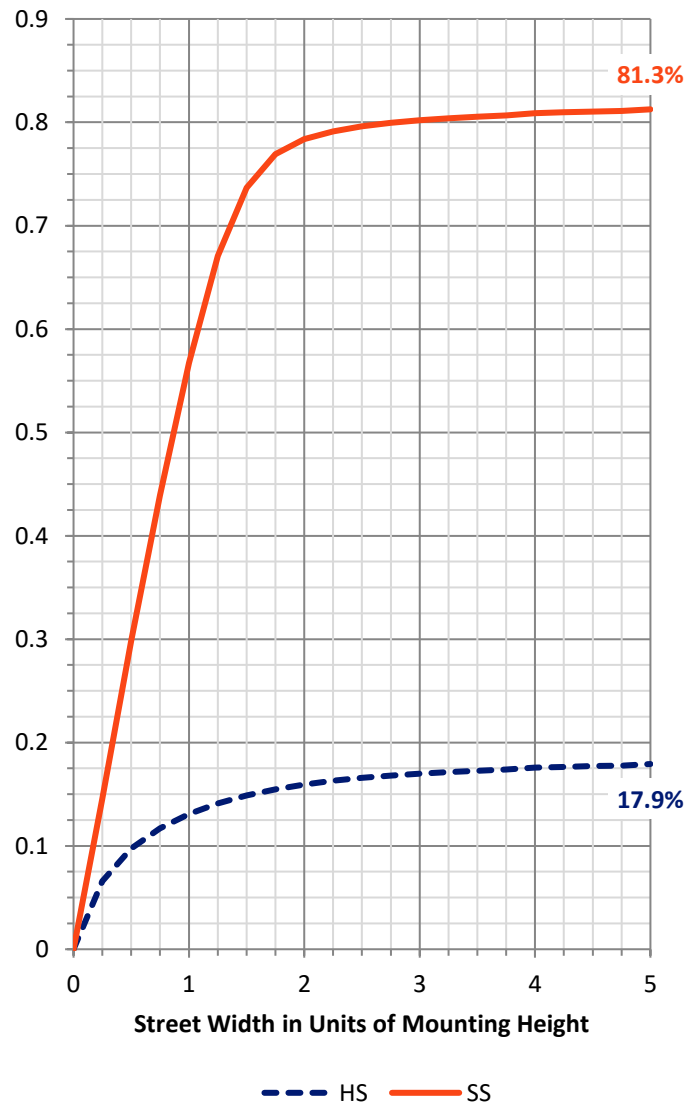
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7514.7 | 0.0 | 7514.7 |
| | % Fixture | 18.4 | 0.0 | 18.4 |
| Street Side | Lumens | 33290.3 | 0.0 | 33290.3 |
| | % Fixture | 81.6 | 0.0 | 81.6 |
| Total | Lumens | 40805.0 | 0.0 | 40805.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 522.9 | 1.3 |
| 10°-20° | 1506.4 | 3.7 |
| 20°-30° | 2493.5 | 6.1 |
| 30°-40° | 4078.7 | 10.0 |
| 40°-50° | 6585.5 | 16.1 |
| 50°-60° | 9507.5 | 23.3 |
| 60°-70° | 10492.1 | 25.7 |
| 70°-80° | 4836.2 | 11.9 |
| 80°-90° | 782.2 | 1.9 |
| 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° | 40805.0 | 100.0 |
| 0°-180° | 40805.0 | 100.0 |



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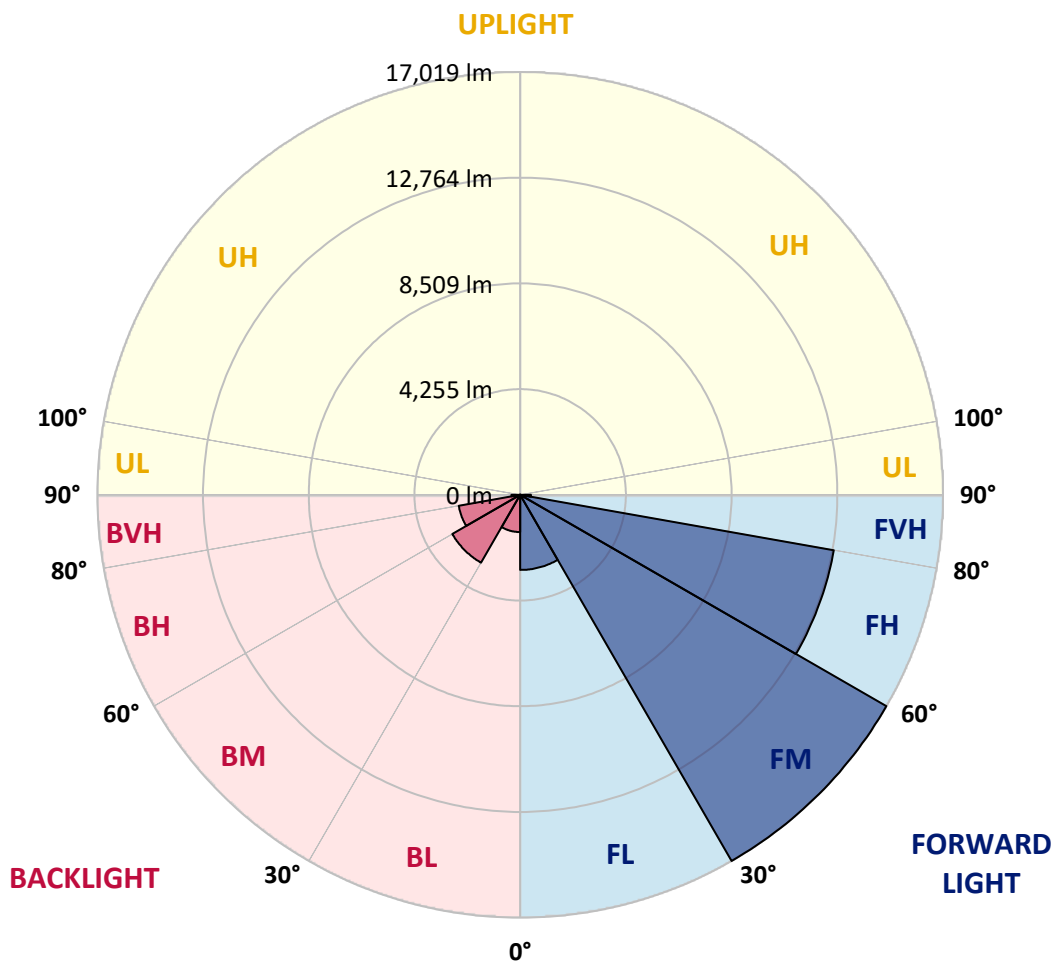
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3023.6 | 7.4 | | | |
| FM | (30°-60°) | 17018.7 | 41.7 | | | |
| FH | (60°-80°) | 12817.9 | 31.4 | | | G5 |
| FVH | (80°-90°) | 430.1 | 1.1 | | | G3/500 |
| BL | (0°-30°) | 1499.3 | 3.7 | B3/2500 | | |
| BM | (30°-60°) | 3152.9 | 7.7 | B3/5000 | | |
| BH | (60°-80°) | 2510.4 | 6.2 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 352.2 | 0.9 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 80° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5669.0 | 5669.0 | 5669.0 | 5669.0 | 5669.0 | 5669.0 | 5669.0 | 5669.0 | 5669.0 | 5669.0 | 5669.0 |
| 2.5° | 6201.3 | 6165.2 | 6171.2 | 6161.1 | 6131.1 | 6078.8 | 6022.6 | 5920.1 | 5813.6 | 5757.4 | 5713.1 |
| 5° | 6719.7 | 6709.6 | 6695.5 | 6663.4 | 6587.0 | 6478.5 | 6344.0 | 6163.2 | 5968.3 | 5865.9 | 5767.5 |
| 7.5° | 7107.4 | 7101.3 | 7083.3 | 7063.2 | 6988.9 | 6858.2 | 6655.3 | 6398.2 | 6115.0 | 5974.4 | 5821.7 |
| 10° | 7139.5 | 7149.5 | 7163.6 | 7217.8 | 7227.9 | 7157.6 | 6950.6 | 6639.2 | 6267.6 | 6086.9 | 5892.1 |
| 12.5° | 6866.3 | 6888.4 | 6942.7 | 7081.2 | 7227.9 | 7314.3 | 7207.9 | 6892.4 | 6446.4 | 6227.4 | 5980.5 |
| 15° | 6504.7 | 6516.8 | 6583.1 | 6773.8 | 7037.1 | 7304.2 | 7404.7 | 7171.7 | 6677.5 | 6408.3 | 6112.9 |
| 17.5° | 6350.0 | 6356.0 | 6402.3 | 6528.8 | 6773.8 | 7155.6 | 7515.2 | 7475.0 | 6960.7 | 6633.2 | 6275.7 |
| 20° | 6271.7 | 6285.6 | 6352.0 | 6476.6 | 6631.3 | 6964.7 | 7531.2 | 7802.4 | 7298.2 | 6914.5 | 6480.6 |
| 22.5° | 6494.7 | 6488.6 | 6512.7 | 6575.0 | 6705.6 | 6906.5 | 7519.2 | 8140.0 | 7728.1 | 7276.1 | 6747.8 |
| 25° | 7015.0 | 7037.1 | 6994.9 | 6924.6 | 6966.7 | 7107.4 | 7583.4 | 8505.5 | 8266.4 | 7740.2 | 7097.3 |
| 27.5° | 7756.2 | 7734.1 | 7671.8 | 7507.1 | 7420.8 | 7481.0 | 7796.4 | 8899.2 | 8935.4 | 8350.8 | 7559.3 |
| 30° | 8495.5 | 8477.4 | 8417.2 | 8216.3 | 8039.6 | 7989.2 | 8210.2 | 9351.3 | 9733.0 | 9084.1 | 8125.8 |
| 32.5° | 9262.9 | 9242.8 | 9186.5 | 8985.6 | 8772.8 | 8656.2 | 8798.8 | 9873.5 | 10673.1 | 9960.0 | 8792.7 |
| 35° | 10209.0 | 10170.8 | 10052.4 | 9773.1 | 9564.2 | 9473.8 | 9540.1 | 10530.4 | 11757.8 | 10996.5 | 9602.4 |
| 37.5° | 11099.0 | 11157.2 | 11036.8 | 10651.0 | 10379.7 | 10347.6 | 10422.0 | 11332.1 | 12927.0 | 12155.6 | 10532.5 |
| 40° | 11993.0 | 12003.0 | 11894.5 | 11579.1 | 11299.8 | 11247.5 | 11434.4 | 12304.2 | 14307.1 | 13541.7 | 11663.4 |
| 42.5° | 12916.9 | 12937.1 | 12754.3 | 12462.9 | 12258.2 | 12268.0 | 12481.0 | 13443.3 | 15890.1 | 15174.9 | 12965.2 |
| 45° | 14011.9 | 14042.0 | 13841.1 | 13459.4 | 13272.6 | 13648.2 | 13559.8 | 14720.9 | 17625.7 | 17031.2 | 14459.8 |
| 47.5° | 15156.9 | 15203.1 | 15050.4 | 14692.8 | 14459.8 | 14976.0 | 14638.5 | 16137.1 | 19494.0 | 19021.9 | 16101.0 |
| 50° | 15781.6 | 15847.9 | 15996.5 | 15970.4 | 15920.2 | 15833.9 | 15841.9 | 17655.9 | 21420.5 | 21095.0 | 17788.5 |
| 52.5° | 15446.1 | 15444.2 | 15986.5 | 16645.4 | 17348.5 | 17400.7 | 17308.3 | 19257.0 | 23220.5 | 23122.0 | 19377.4 |
| 55° | 13911.3 | 14015.8 | 14837.4 | 16113.1 | 18033.6 | 19232.8 | 19506.0 | 21091.1 | 24988.2 | 25102.8 | 20990.6 |
| 57.5° | 11356.1 | 11442.5 | 12551.3 | 14329.3 | 17109.5 | 20321.6 | 22631.9 | 23756.8 | 26964.9 | 27499.4 | 23138.1 |
| 60° | 7702.0 | 7806.5 | 8981.6 | 11117.0 | 14622.5 | 19715.0 | 25607.0 | 28513.8 | 29331.4 | 30546.7 | 26151.4 |
| 62.5° | 4525.9 | 4620.3 | 5578.6 | 7013.0 | 10295.4 | 16896.5 | 26912.7 | 35281.7 | 33089.9 | 35145.0 | 30747.6 |
| 65° | 3115.7 | 3180.0 | 3646.1 | 4365.2 | 5916.1 | 11380.2 | 25293.6 | 39954.3 | 38873.5 | 40842.2 | 36077.2 |
| 67.5° | 2507.1 | 2499.0 | 2868.6 | 3358.8 | 3808.8 | 5867.9 | 19126.4 | 39425.8 | 43959.9 | 44781.5 | 38843.3 |
| 70° | 2065.1 | 2057.1 | 2308.2 | 2714.0 | 3043.4 | 3304.5 | 10418.0 | 33270.7 | 42923.4 | 43256.9 | 36296.2 |
| 72.5° | 1727.6 | 1735.7 | 1896.4 | 2197.6 | 2497.0 | 2488.9 | 4578.2 | 23405.3 | 33767.0 | 36073.1 | 28933.6 |
| 75° | 1458.4 | 1462.4 | 1569.0 | 1781.9 | 2027.0 | 2004.8 | 2482.9 | 12680.0 | 19628.7 | 21233.7 | 16038.7 |
| 77.5° | 1241.5 | 1245.4 | 1313.9 | 1432.3 | 1607.1 | 1599.0 | 1811.9 | 5478.2 | 8188.1 | 8087.7 | 5486.2 |
| 80° | 1106.9 | 1106.9 | 1139.0 | 1161.1 | 1257.6 | 1221.4 | 1343.9 | 2631.6 | 3461.3 | 3196.1 | 2189.7 |
| 82.5° | 867.8 | 871.9 | 1068.7 | 1060.7 | 990.3 | 944.2 | 944.2 | 1550.8 | 1834.1 | 1695.4 | 1281.6 |
| 85° | 488.2 | 486.1 | 689.0 | 831.7 | 871.9 | 665.0 | 659.0 | 867.8 | 998.4 | 879.9 | 620.7 |
| 87.5° | 208.9 | 212.9 | 319.4 | 369.7 | 494.2 | 413.9 | 407.7 | 448.0 | 508.3 | 440.0 | 287.3 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5669.0 | 5669.0 | 5669.0 | 5669.0 | 5669.0 | 5669.0 | 5669.0 | 5669.0 | 5669.0 | 5669.0 | 5669.0 |
| 2.5° | 5671.0 | 5618.7 | 5504.3 | 5361.7 | 5233.1 | 5148.8 | 5072.4 | 4961.9 | 4967.9 | 4891.5 | 4835.4 |
| 5° | 5666.9 | 5558.6 | 5293.4 | 4978.0 | 4674.6 | 4455.7 | 4290.9 | 4142.2 | 4106.1 | 4035.8 | 3993.7 |
| 7.5° | 5671.0 | 5494.2 | 5048.4 | 4544.1 | 4168.3 | 3891.2 | 3750.6 | 3672.2 | 3654.0 | 3630.0 | 3632.0 |
| 10° | 5685.1 | 5435.9 | 4779.1 | 4138.3 | 3744.6 | 3561.8 | 3527.6 | 3551.7 | 3579.8 | 3587.8 | 3589.8 |
| 12.5° | 5717.2 | 5383.8 | 4483.8 | 3776.6 | 3479.4 | 3423.1 | 3481.3 | 3563.7 | 3618.0 | 3644.2 | 3642.0 |
| 15° | 5789.5 | 5343.6 | 4200.6 | 3493.4 | 3332.7 | 3362.8 | 3471.2 | 3587.8 | 3666.2 | 3702.4 | 3704.3 |
| 17.5° | 5867.9 | 5285.3 | 3909.3 | 3276.4 | 3224.2 | 3300.6 | 3435.1 | 3571.8 | 3668.2 | 3708.4 | 3716.4 |
| 20° | 5970.4 | 5213.0 | 3603.9 | 3113.8 | 3121.7 | 3208.2 | 3334.7 | 3471.2 | 3577.8 | 3611.9 | 3628.0 |
| 22.5° | 6105.0 | 5134.6 | 3336.7 | 2981.1 | 3005.2 | 3071.5 | 3169.9 | 3288.4 | 3380.9 | 3397.0 | 3411.1 |
| 25° | 6285.6 | 5050.3 | 3123.8 | 2860.6 | 2870.7 | 2908.8 | 2975.1 | 3045.4 | 3109.7 | 3091.6 | 3105.7 |
| 27.5° | 6528.8 | 4978.0 | 2965.1 | 2750.2 | 2732.0 | 2740.1 | 2774.2 | 2796.4 | 2830.5 | 2780.2 | 2786.3 |
| 30° | 6814.1 | 4899.6 | 2842.5 | 2653.7 | 2603.5 | 2589.5 | 2597.4 | 2609.5 | 2635.7 | 2567.4 | 2557.3 |
| 32.5° | 7145.5 | 4805.2 | 2727.9 | 2569.3 | 2499.0 | 2470.9 | 2474.9 | 2507.1 | 2607.5 | 2565.3 | 2543.2 |
| 35° | 7531.2 | 4698.7 | 2607.5 | 2476.9 | 2428.8 | 2388.5 | 2384.5 | 2485.0 | 2784.3 | 2758.1 | 2738.0 |
| 37.5° | 7983.2 | 4592.2 | 2487.0 | 2372.4 | 2376.5 | 2332.2 | 2318.3 | 2432.7 | 2818.5 | 2715.9 | 2701.9 |
| 40° | 8557.7 | 4536.0 | 2384.5 | 2262.0 | 2312.3 | 2306.1 | 2278.0 | 2336.3 | 2593.5 | 2406.7 | 2382.5 |
| 42.5° | 9268.9 | 4544.1 | 2308.2 | 2143.4 | 2235.9 | 2300.1 | 2255.9 | 2258.0 | 2350.3 | 2209.8 | 2187.7 |
| 45° | 10146.8 | 4638.5 | 2253.9 | 2049.0 | 2149.4 | 2294.1 | 2247.9 | 2215.8 | 2223.9 | 2149.4 | 2137.4 |
| 47.5° | 11171.3 | 4833.3 | 2215.8 | 1970.7 | 2067.0 | 2272.0 | 2246.0 | 2203.8 | 2185.6 | 2145.5 | 2135.5 |
| 50° | 12310.4 | 5116.6 | 2187.7 | 1896.4 | 1992.8 | 2235.9 | 2247.9 | 2191.6 | 2171.5 | 2155.4 | 2149.4 |
| 52.5° | 13429.3 | 5440.0 | 2145.5 | 1832.1 | 1934.6 | 2191.6 | 2253.9 | 2179.6 | 2157.6 | 2145.5 | 2139.4 |
| 55° | 14676.8 | 5843.7 | 2081.2 | 1777.8 | 1886.4 | 2135.5 | 2253.9 | 2161.5 | 2137.4 | 2139.4 | 2137.4 |
| 57.5° | 16362.2 | 6496.7 | 2004.8 | 1731.6 | 1828.0 | 2067.0 | 2215.8 | 2141.5 | 2111.3 | 2113.3 | 2115.4 |
| 60° | 18995.9 | 7647.7 | 1912.5 | 1685.5 | 1755.8 | 1986.8 | 2163.6 | 2097.2 | 2067.0 | 2075.2 | 2077.1 |
| 62.5° | 22868.8 | 9337.2 | 1791.9 | 1617.1 | 1679.5 | 1900.3 | 2091.2 | 2041.0 | 2010.9 | 2030.9 | 2030.9 |
| 65° | 26894.6 | 10827.8 | 1643.3 | 1530.7 | 1599.0 | 1805.9 | 2000.9 | 1970.7 | 1940.6 | 1986.8 | 1984.8 |
| 67.5° | 27977.5 | 10494.3 | 1494.5 | 1436.3 | 1518.7 | 1701.5 | 1892.4 | 1876.3 | 1860.2 | 1940.6 | 1936.5 |
| 70° | 24853.6 | 8425.2 | 1358.0 | 1339.9 | 1430.3 | 1588.9 | 1775.8 | 1775.8 | 1765.7 | 1826.0 | 1811.9 |
| 72.5° | 18935.5 | 5974.4 | 1227.4 | 1237.5 | 1329.9 | 1466.5 | 1649.3 | 1663.4 | 1647.3 | 1677.3 | 1665.3 |
| 75° | 10136.7 | 3419.0 | 1096.9 | 1125.0 | 1205.3 | 1341.9 | 1508.7 | 1522.7 | 1512.7 | 1510.6 | 1516.7 |
| 77.5° | 3368.9 | 1671.3 | 960.3 | 1004.4 | 1074.8 | 1213.4 | 1362.0 | 1384.1 | 1360.0 | 1356.0 | 1353.9 |
| 80° | 1500.5 | 1050.6 | 809.6 | 867.8 | 930.2 | 1066.7 | 1207.4 | 1225.5 | 1199.3 | 1235.5 | 1189.3 |
| 82.5° | 964.2 | 691.1 | 648.9 | 713.1 | 773.4 | 920.1 | 1052.6 | 1056.6 | 1032.6 | 1199.3 | 1022.5 |
| 85° | 468.0 | 427.9 | 488.2 | 546.4 | 598.6 | 723.2 | 871.9 | 873.8 | 813.6 | 741.4 | 715.1 |
| 87.5° | 233.0 | 249.1 | 325.5 | 377.7 | 403.8 | 496.1 | 634.8 | 622.8 | 596.7 | 542.4 | 500.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)