

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: P300387

Luminaire Tested: **GAA-AF-06-LED-U-T4FT-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300387
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: GAA-AF-06-LED-U-T4FT-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
Forward Throw OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27893.4 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 249
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

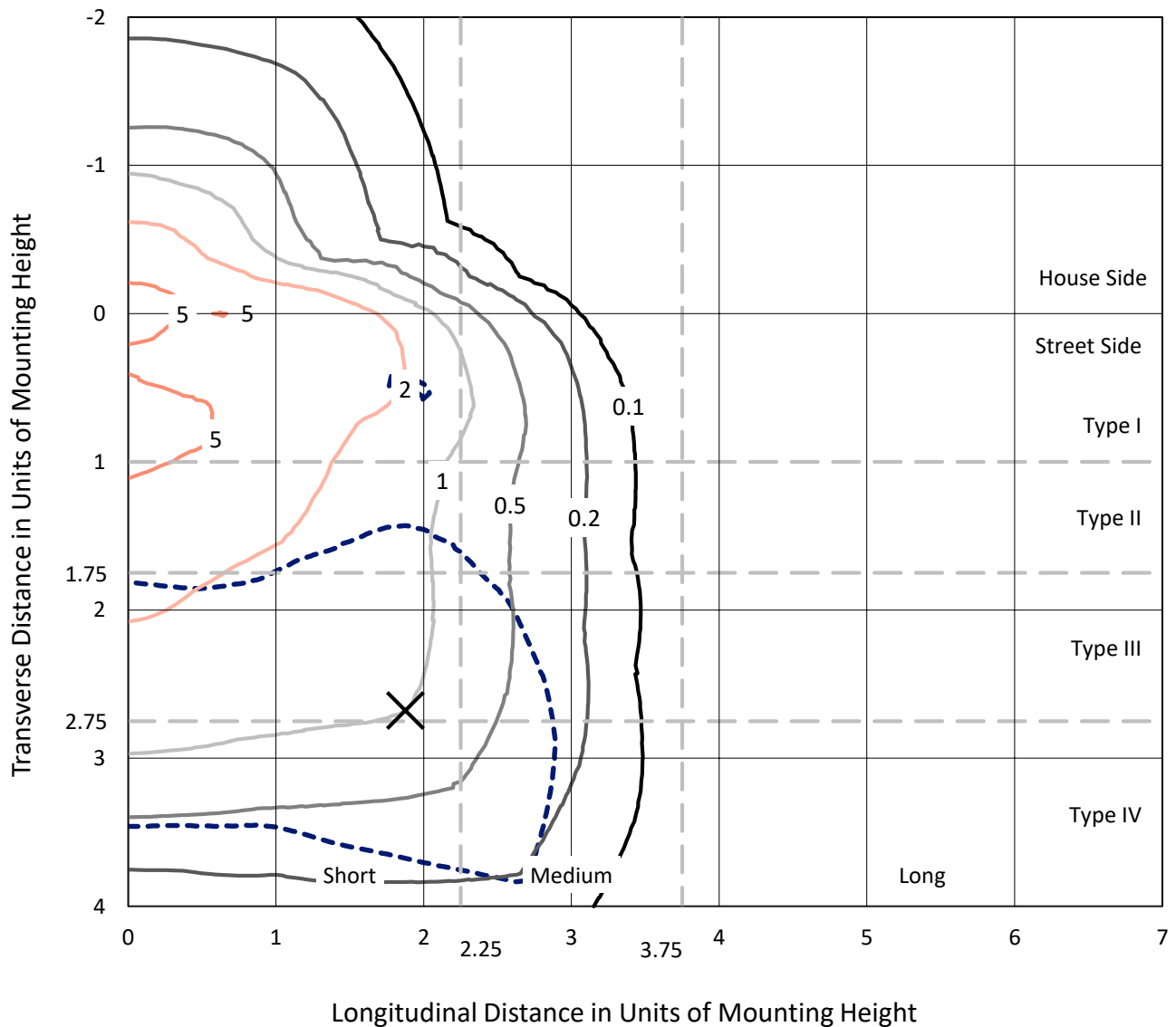


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

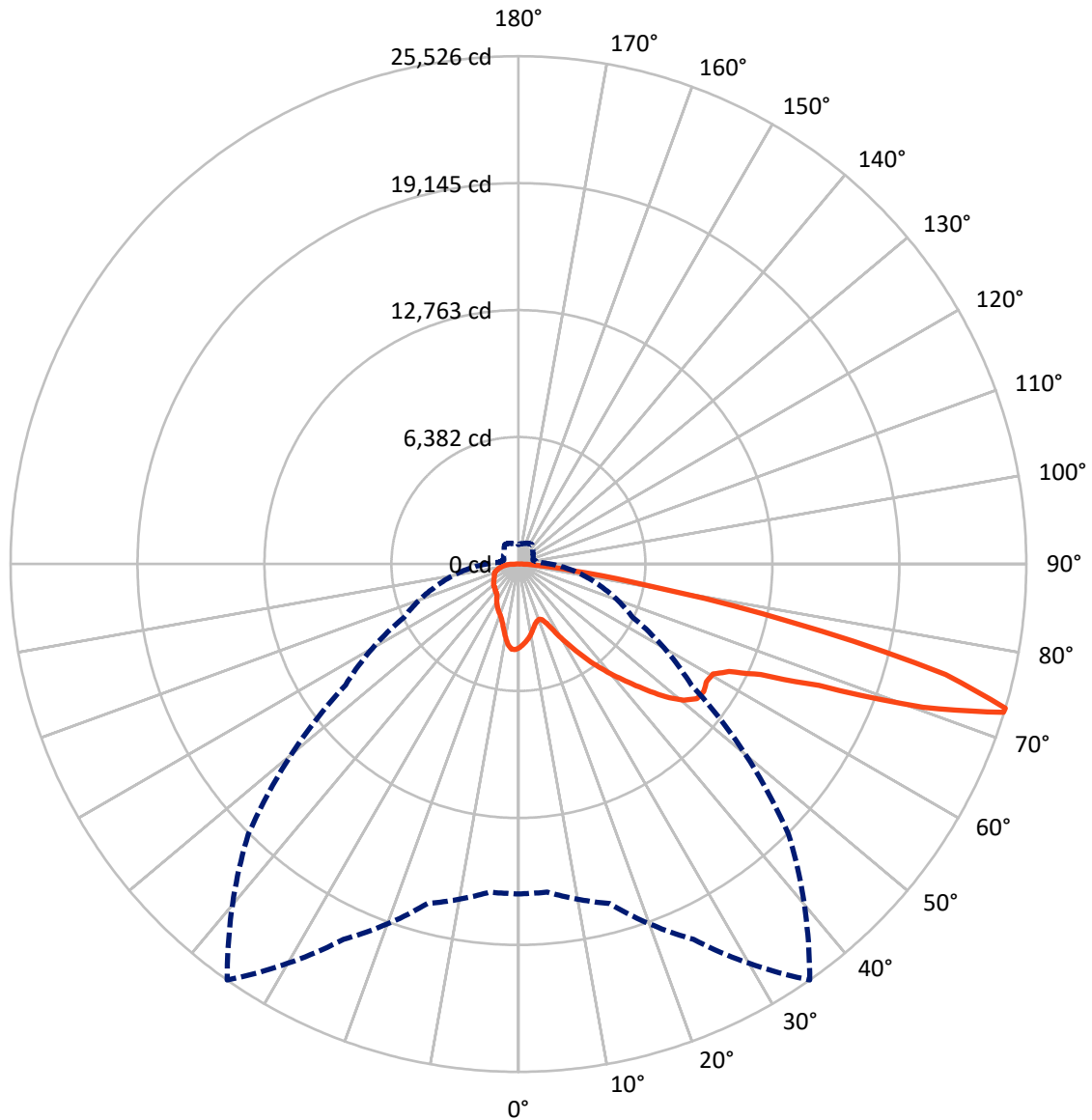


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - Non-Cutoff

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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 | 5320.0 | 0.0 | 5320.0 |
| | % Fixture | 19.1 | 0.0 | 19.1 |
| Street Side | Lumens | 22573.3 | 0.0 | 22573.3 |
| | % Fixture | 80.9 | 0.0 | 80.9 |
| Total | Lumens | 27893.4 | 0.0 | 27893.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 381.1 | 1.4 |
| 10°-20° | 951.2 | 3.4 |
| 20°-30° | 1537.8 | 5.5 |
| 30°-40° | 2578.7 | 9.2 |
| 40°-50° | 3974.9 | 14.3 |
| 50°-60° | 5332.8 | 19.1 |
| 60°-70° | 7104.3 | 25.5 |
| 70°-80° | 5418.4 | 19.4 |
| 80°-90° | 614.2 | 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° | 27893.4 | 100.0 |
| 0°-180° | 27893.4 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P300387

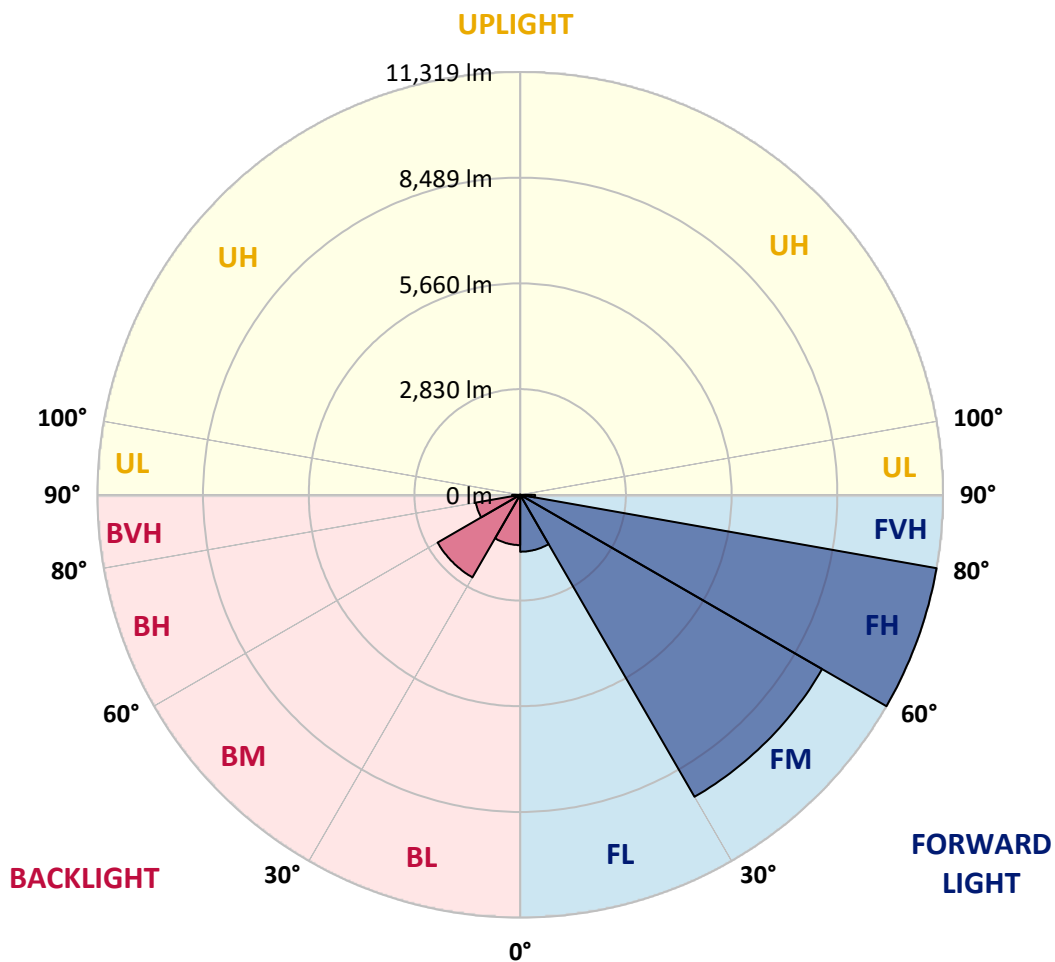
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1523.9 | 5.5 | | | |
| FM | (30°-60°) | 9333.3 | 33.5 | | | |
| FH | (60°-80°) | 11319.1 | 40.6 | | | G4/12000 |
| FVH | (80°-90°) | 397.0 | 1.4 | | | G3/500 |
| BL | (0°-30°) | 1346.2 | 4.8 | B3/2500 | | |
| BM | (30°-60°) | 2553.0 | 9.2 | B3/5000 | | |
| BH | (60°-80°) | 1203.6 | 4.3 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 217.2 | 0.8 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Short





REPORT NUMBER: P300387

CATALOG NUMBER: GAA-AF-06-LED-U-T4FT-7030-800

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 4210.0 | 4210.0 | 4210.0 | 4210.0 | 4210.0 | 4210.0 | 4210.0 | 4210.0 | 4210.0 | 4210.0 | 4210.0 |
| 2.5° | 4043.9 | 4051.9 | 4042.5 | 4054.6 | 4074.7 | 4096.1 | 4110.9 | 4132.3 | 4156.4 | 4189.9 | 4197.9 |
| 5° | 3853.7 | 3865.7 | 3865.7 | 3887.2 | 3926.0 | 3960.8 | 3993.0 | 4027.8 | 4078.7 | 4136.3 | 4159.1 |
| 7.5° | 3644.7 | 3651.4 | 3663.5 | 3695.6 | 3751.9 | 3801.4 | 3847.0 | 3903.2 | 3972.9 | 4049.2 | 4089.4 |
| 10° | 3392.9 | 3402.3 | 3421.0 | 3466.6 | 3542.9 | 3611.2 | 3676.9 | 3754.6 | 3843.0 | 3938.1 | 3989.0 |
| 12.5° | 3214.7 | 3212.1 | 3220.1 | 3253.6 | 3320.6 | 3403.6 | 3498.7 | 3597.8 | 3706.3 | 3817.5 | 3879.1 |
| 15° | 3154.5 | 3139.7 | 3108.9 | 3100.9 | 3137.1 | 3220.1 | 3329.9 | 3451.8 | 3581.8 | 3715.7 | 3792.1 |
| 17.5° | 3192.0 | 3166.5 | 3082.1 | 3020.5 | 3015.2 | 3078.1 | 3194.7 | 3331.3 | 3481.3 | 3644.7 | 3739.8 |
| 20° | 3427.7 | 3367.4 | 3159.8 | 3016.5 | 2966.9 | 2997.7 | 3099.6 | 3244.2 | 3421.0 | 3638.0 | 3759.9 |
| 22.5° | 3991.6 | 3903.2 | 3462.5 | 3196.0 | 3028.6 | 2991.1 | 3067.4 | 3221.4 | 3427.7 | 3721.1 | 3876.4 |
| 25° | 4812.7 | 4686.8 | 3982.3 | 3643.4 | 3297.8 | 3098.2 | 3115.6 | 3273.7 | 3522.8 | 3914.0 | 4101.5 |
| 27.5° | 5461.0 | 5379.3 | 4661.4 | 4274.3 | 3788.0 | 3387.5 | 3272.3 | 3405.0 | 3717.0 | 4230.1 | 4421.6 |
| 30° | 5846.8 | 5797.3 | 5387.4 | 4989.6 | 4413.6 | 3848.3 | 3572.4 | 3651.4 | 4021.1 | 4668.1 | 4826.1 |
| 32.5° | 6294.2 | 6264.7 | 6063.8 | 5698.1 | 5088.7 | 4453.8 | 4047.9 | 4019.8 | 4428.3 | 5194.5 | 5266.8 |
| 35° | 6757.7 | 6748.3 | 6630.4 | 6367.9 | 5813.3 | 5252.1 | 4678.8 | 4488.6 | 4871.7 | 5741.0 | 5695.5 |
| 37.5° | 7189.0 | 7172.9 | 7104.6 | 6951.9 | 6571.5 | 6109.4 | 5321.7 | 4969.5 | 5349.9 | 6263.4 | 6061.1 |
| 40° | 7983.3 | 7857.4 | 7623.0 | 7507.8 | 7337.7 | 6831.3 | 5832.1 | 5418.2 | 5845.5 | 6761.7 | 6377.3 |
| 42.5° | 8951.7 | 8746.8 | 8310.1 | 8152.1 | 8127.9 | 7400.6 | 6180.3 | 5853.5 | 6345.1 | 7255.9 | 6688.0 |
| 45° | 9713.9 | 9521.0 | 9144.6 | 8945.0 | 9033.4 | 7916.3 | 6530.0 | 6318.3 | 6859.5 | 7774.3 | 7008.1 |
| 47.5° | 10527.0 | 10224.2 | 9725.9 | 9786.2 | 9979.1 | 8403.9 | 6886.3 | 6817.9 | 7423.4 | 8354.3 | 7406.0 |
| 50° | 10556.4 | 10324.7 | 10106.4 | 10466.7 | 10766.7 | 8852.6 | 7332.3 | 7341.7 | 8113.2 | 9084.3 | 7935.1 |
| 52.5° | 9944.3 | 9894.7 | 10241.6 | 10808.2 | 11240.9 | 9207.6 | 7840.0 | 7882.8 | 8995.9 | 9922.8 | 8516.4 |
| 55° | 9730.0 | 9673.7 | 10074.2 | 10689.0 | 11305.2 | 9500.9 | 8390.5 | 8468.2 | 10063.5 | 10806.9 | 9083.0 |
| 57.5° | 10252.4 | 10127.8 | 10154.6 | 10632.8 | 11148.5 | 9822.4 | 8990.6 | 9147.3 | 11223.5 | 11579.8 | 9447.3 |
| 60° | 11712.4 | 11445.8 | 10939.5 | 10927.5 | 11232.9 | 10304.6 | 9684.4 | 9876.0 | 12429.0 | 11949.5 | 9305.3 |
| 62.5° | 13760.4 | 13493.9 | 12545.5 | 11928.0 | 11882.5 | 11100.2 | 10536.3 | 10587.2 | 13125.5 | 11448.5 | 8438.7 |
| 65° | 15977.3 | 15738.9 | 14679.3 | 13807.3 | 13386.7 | 12418.3 | 11526.2 | 10904.7 | 12897.8 | 10070.2 | 6922.4 |
| 67.5° | 18668.3 | 18412.5 | 17501.6 | 16696.6 | 16292.1 | 14545.4 | 12221.4 | 10600.6 | 11452.5 | 7801.1 | 4976.2 |
| 70° | 20550.3 | 20289.1 | 19930.1 | 20582.4 | 21572.3 | 17614.1 | 12311.1 | 9364.3 | 8553.9 | 5185.1 | 2995.1 |
| 72.5° | 18095.0 | 17973.1 | 18628.1 | 21375.4 | 25498.3 | 19476.0 | 11128.4 | 6817.9 | 4968.1 | 2752.6 | 1733.3 |
| 73° | 16578.7 | 16551.9 | 17669.0 | 20819.5 | 25526.4 | 19189.3 | 10610.0 | 6337.1 | 4260.9 | 2435.2 | 1584.6 |
| 75° | 7486.3 | 7702.0 | 10150.6 | 15902.3 | 22177.7 | 15812.5 | 7467.6 | 3635.3 | 2407.0 | 1682.4 | 1196.2 |
| 77.5° | 1798.9 | 1873.9 | 3175.9 | 7552.0 | 14005.6 | 9423.2 | 3383.5 | 1797.6 | 1539.1 | 1188.1 | 873.3 |
| 80° | 766.2 | 791.6 | 1222.9 | 2790.1 | 6594.2 | 3794.7 | 1559.2 | 1204.2 | 1064.9 | 829.1 | 612.1 |
| 82.5° | 426.0 | 452.7 | 693.8 | 1265.8 | 2661.5 | 1293.9 | 951.0 | 838.5 | 700.5 | 499.6 | 397.8 |
| 85° | 241.1 | 255.8 | 405.9 | 707.2 | 1127.8 | 519.7 | 569.3 | 557.2 | 395.1 | 257.2 | 195.6 |
| 87.5° | 113.9 | 123.2 | 195.6 | 328.2 | 442.0 | 203.6 | 289.3 | 318.8 | 247.8 | 156.7 | 101.8 |
| 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° | 4210.0 | 4210.0 | 4210.0 | 4210.0 | 4210.0 | 4210.0 | 4210.0 | 4210.0 | 4210.0 | 4210.0 |
| 2.5° | 4207.3 | 4231.4 | 4259.5 | 4274.3 | 4287.7 | 4303.7 | 4319.8 | 4319.8 | 4322.5 | 4323.8 |
| 5° | 4177.8 | 4227.4 | 4271.6 | 4290.3 | 4294.4 | 4294.4 | 4290.3 | 4268.9 | 4250.2 | 4258.2 |
| 7.5° | 4116.2 | 4188.5 | 4226.1 | 4219.4 | 4168.5 | 4109.5 | 4060.0 | 3999.7 | 3968.9 | 3963.5 |
| 10° | 4027.8 | 4110.9 | 4117.6 | 4050.6 | 3924.7 | 3798.8 | 3694.3 | 3592.5 | 3544.3 | 3532.2 |
| 12.5° | 3930.0 | 4006.4 | 3963.5 | 3825.5 | 3623.3 | 3439.8 | 3307.2 | 3204.0 | 3158.5 | 3146.4 |
| 15° | 3851.0 | 3903.2 | 3794.7 | 3577.7 | 3323.2 | 3129.0 | 3019.2 | 2942.8 | 2910.7 | 2901.3 |
| 17.5° | 3809.5 | 3820.2 | 3621.9 | 3328.6 | 3058.0 | 2895.9 | 2827.6 | 2791.5 | 2779.4 | 2772.7 |
| 20° | 3829.6 | 3754.6 | 3457.2 | 3096.9 | 2841.0 | 2727.2 | 2711.1 | 2701.7 | 2699.0 | 2695.0 |
| 22.5° | 3930.0 | 3734.5 | 3305.8 | 2877.2 | 2650.8 | 2601.3 | 2614.7 | 2613.3 | 2610.6 | 2608.0 |
| 25° | 4109.5 | 3751.9 | 3158.5 | 2668.2 | 2491.4 | 2480.7 | 2504.8 | 2504.8 | 2494.1 | 2494.1 |
| 27.5° | 4346.6 | 3788.0 | 2993.7 | 2470.0 | 2346.8 | 2348.1 | 2366.9 | 2361.5 | 2349.4 | 2341.4 |
| 30° | 4635.9 | 3810.8 | 2800.8 | 2291.8 | 2211.5 | 2206.1 | 2211.5 | 2188.7 | 2152.5 | 2149.9 |
| 32.5° | 4932.0 | 3782.7 | 2577.2 | 2133.8 | 2068.2 | 2056.1 | 2052.1 | 2019.9 | 1978.4 | 1966.4 |
| 35° | 5199.9 | 3679.5 | 2349.4 | 2007.9 | 1931.5 | 1904.7 | 1923.5 | 1912.8 | 1875.3 | 1865.9 |
| 37.5° | 5395.4 | 3488.0 | 2144.5 | 1896.7 | 1833.7 | 1827.0 | 1839.1 | 1843.1 | 1798.9 | 1789.5 |
| 40° | 5526.7 | 3228.1 | 1969.0 | 1802.9 | 1815.0 | 1789.5 | 1749.4 | 1721.2 | 1707.8 | 1703.8 |
| 42.5° | 5632.5 | 2957.6 | 1821.7 | 1758.7 | 1819.0 | 1745.3 | 1658.3 | 1612.7 | 1636.8 | 1647.6 |
| 45° | 5754.4 | 2693.7 | 1698.5 | 1703.8 | 1798.9 | 1694.4 | 1595.3 | 1551.1 | 1560.5 | 1563.2 |
| 47.5° | 5921.8 | 2372.2 | 1565.8 | 1615.4 | 1731.9 | 1659.6 | 1556.5 | 1493.5 | 1449.3 | 1429.2 |
| 50° | 6153.6 | 1991.8 | 1427.9 | 1516.3 | 1666.3 | 1634.2 | 1496.2 | 1429.2 | 1347.5 | 1328.8 |
| 52.5° | 6314.3 | 1636.8 | 1314.0 | 1433.2 | 1607.4 | 1583.3 | 1448.0 | 1360.9 | 1275.2 | 1259.1 |
| 55° | 6227.2 | 1359.6 | 1214.9 | 1340.8 | 1529.7 | 1520.3 | 1407.8 | 1291.3 | 1224.3 | 1210.9 |
| 57.5° | 5791.9 | 1184.1 | 1138.6 | 1253.8 | 1434.6 | 1466.7 | 1354.2 | 1232.3 | 1184.1 | 1174.7 |
| 60° | 4961.4 | 1074.3 | 1090.3 | 1194.8 | 1356.9 | 1413.1 | 1300.6 | 1200.2 | 1168.0 | 1161.3 |
| 62.5° | 3849.7 | 1000.6 | 1054.2 | 1152.0 | 1296.6 | 1375.6 | 1271.2 | 1196.2 | 1184.1 | 1176.1 |
| 65° | 2758.0 | 941.7 | 1015.3 | 1109.1 | 1241.7 | 1340.8 | 1260.4 | 1190.8 | 1193.5 | 1186.8 |
| 67.5° | 1873.9 | 889.4 | 968.4 | 1060.9 | 1188.1 | 1310.0 | 1245.7 | 1172.0 | 1205.5 | 1197.5 |
| 70° | 1311.3 | 838.5 | 913.5 | 999.2 | 1121.1 | 1267.1 | 1218.9 | 1143.9 | 1141.2 | 1109.1 |
| 72.5° | 1023.4 | 771.5 | 838.5 | 913.5 | 1035.4 | 1206.9 | 1165.3 | 1081.0 | 1036.8 | 1003.3 |
| 73° | 976.5 | 755.5 | 819.8 | 894.8 | 1016.7 | 1192.1 | 1150.6 | 1063.5 | 1014.0 | 983.2 |
| 75° | 807.7 | 685.8 | 744.7 | 811.7 | 936.3 | 1122.5 | 1078.3 | 984.5 | 921.6 | 902.8 |
| 77.5° | 634.9 | 586.7 | 642.9 | 703.2 | 825.1 | 1020.7 | 971.1 | 881.4 | 846.5 | 830.5 |
| 80° | 470.2 | 486.2 | 535.8 | 589.4 | 715.3 | 912.2 | 868.0 | 778.2 | 933.6 | 894.8 |
| 82.5° | 330.9 | 368.4 | 413.9 | 462.1 | 600.1 | 806.4 | 752.8 | 660.4 | 683.1 | 567.9 |
| 85° | 195.6 | 241.1 | 284.0 | 325.5 | 432.7 | 668.4 | 621.5 | 526.4 | 431.3 | 411.2 |
| 87.5° | 113.9 | 133.9 | 146.0 | 188.9 | 297.4 | 503.6 | 438.0 | 389.8 | 223.7 | 151.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)