

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: P194056

Luminaire Tested: **GAN-AF-08-LED-U-T4FT-8030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194056
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-8030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA 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: 25802 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 257
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

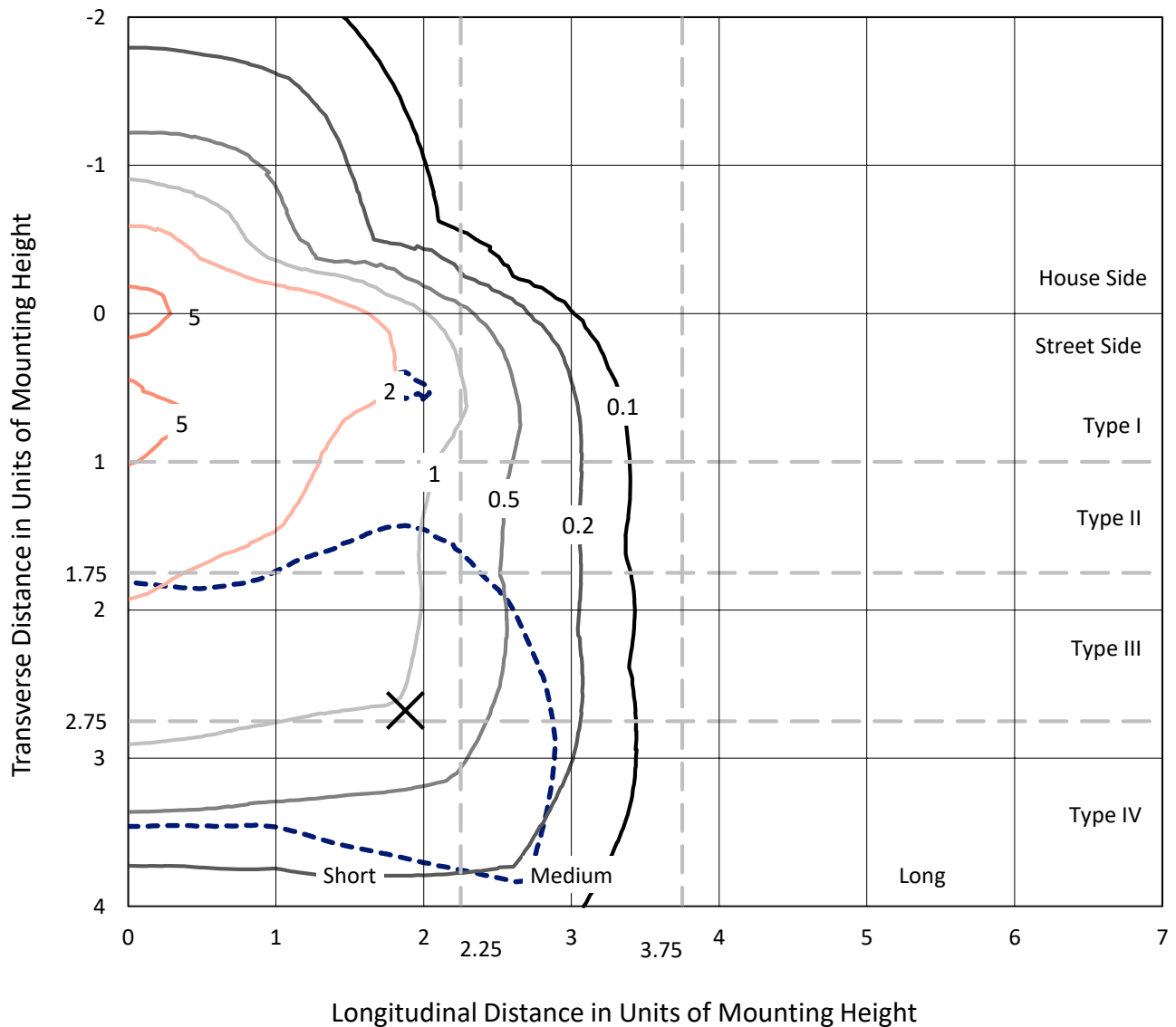


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

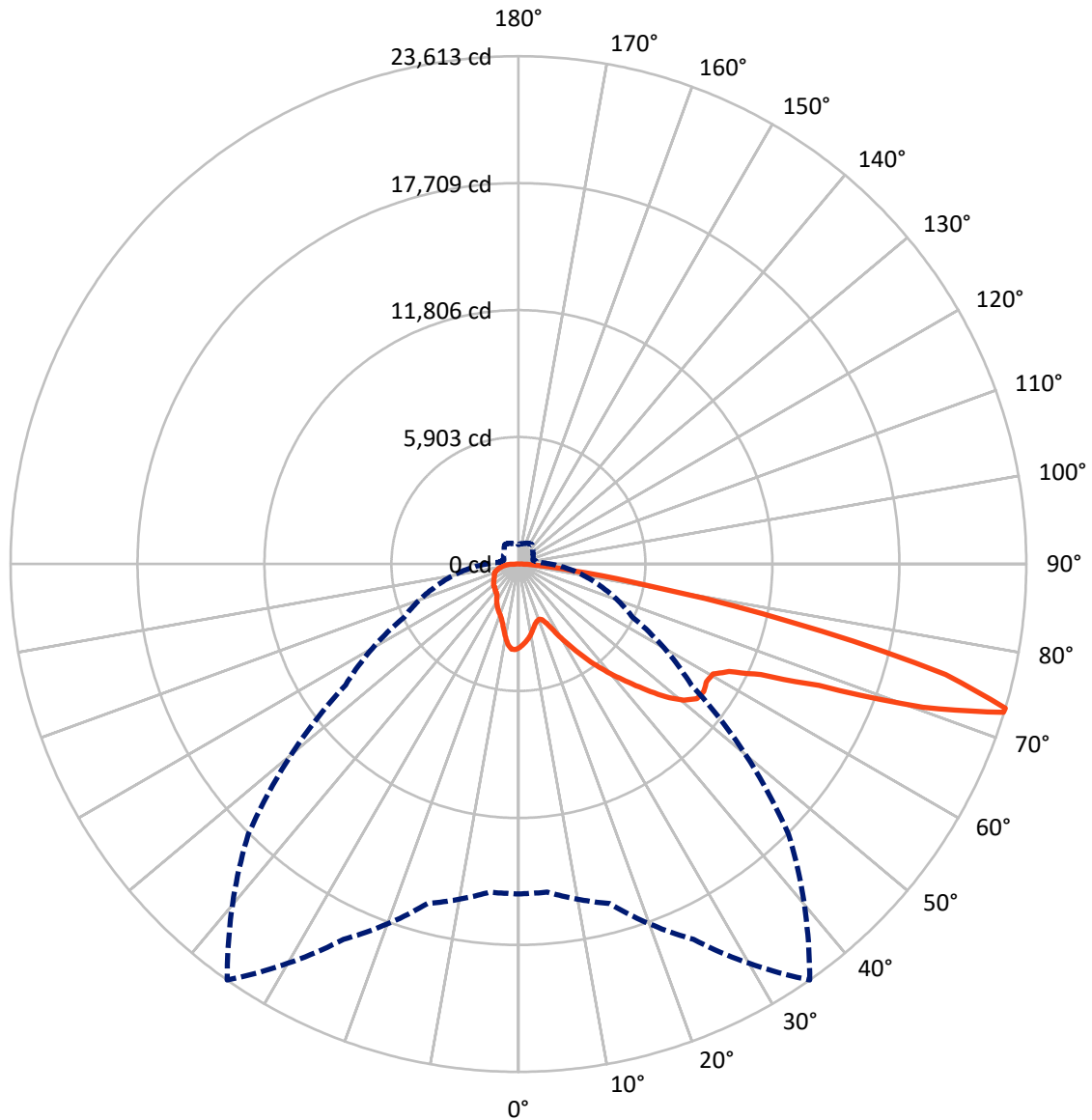


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - Non-Cutoff

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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 | 4921.2 | 0.0 | 4921.2 |
| | % Fixture | 19.1 | 0.0 | 19.1 |
| Street Side | Lumens | 20880.8 | 0.0 | 20880.8 |
| | % Fixture | 80.9 | 0.0 | 80.9 |
| Total | Lumens | 25802.0 | 0.0 | 25802.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 352.5 | 1.4 |
| 10°-20° | 879.9 | 3.4 |
| 20°-30° | 1422.5 | 5.5 |
| 30°-40° | 2385.3 | 9.2 |
| 40°-50° | 3676.9 | 14.3 |
| 50°-60° | 4932.9 | 19.1 |
| 60°-70° | 6571.6 | 25.5 |
| 70°-80° | 5012.2 | 19.4 |
| 80°-90° | 568.1 | 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° | 25802.0 | 100.0 |
| 0°-180° | 25802.0 | 100.0 |

Coefficient of Utilization



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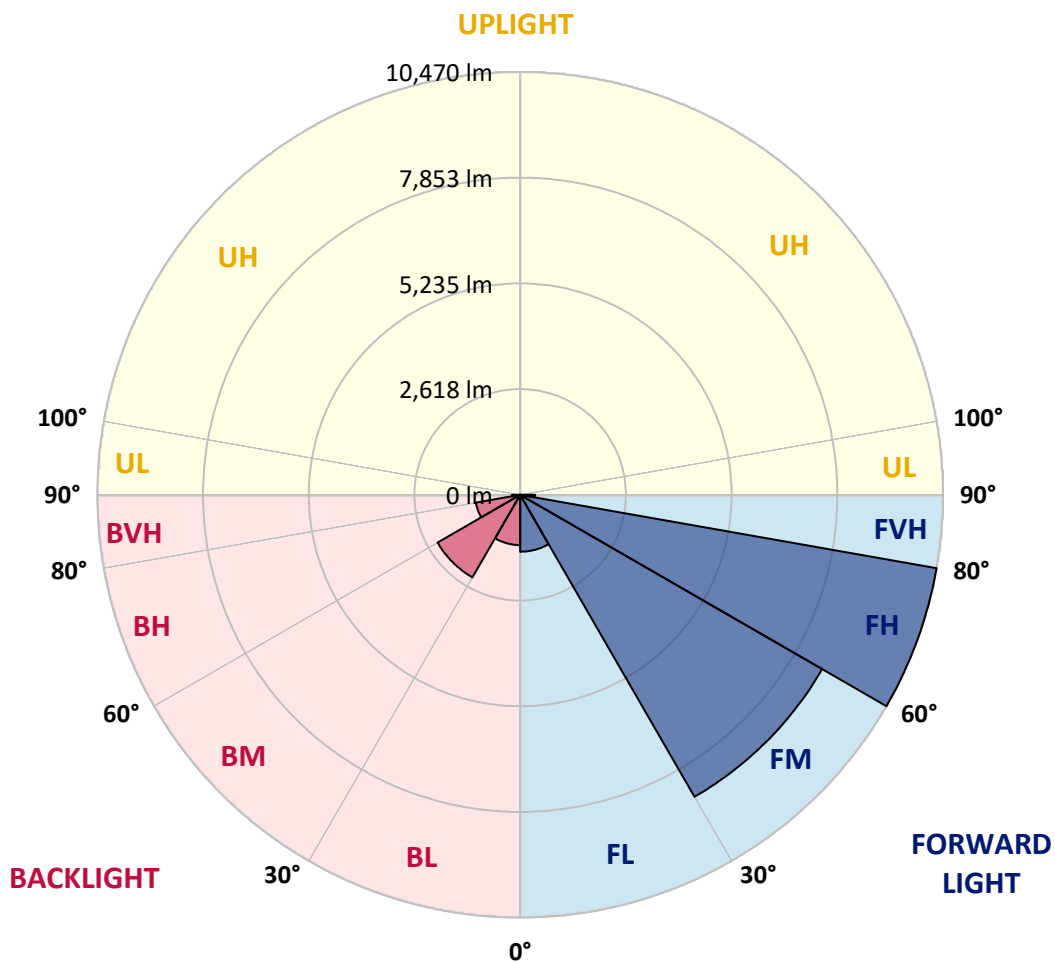
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1409.7 | 5.5 | | | |
| FM | (30°-60°) | 8633.5 | 33.5 | | | |
| FH | (60°-80°) | 10470.4 | 40.6 | | | G4/12000 |
| FVH | (80°-90°) | 367.2 | 1.4 | | | G3/500 |
| BL | (0°-30°) | 1245.3 | 4.8 | B3/2500 | | |
| BM | (30°-60°) | 2361.6 | 9.2 | B2/2500 | | |
| BH | (60°-80°) | 1113.4 | 4.3 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 200.9 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 3894.3 | 3894.3 | 3894.3 | 3894.3 | 3894.3 | 3894.3 | 3894.3 | 3894.3 | 3894.3 | 3894.3 | 3894.3 |
| 2.5° | 3740.7 | 3748.1 | 3739.4 | 3750.6 | 3769.2 | 3789.0 | 3802.6 | 3822.5 | 3844.8 | 3875.7 | 3883.2 |
| 5° | 3564.7 | 3575.9 | 3575.9 | 3595.7 | 3631.6 | 3663.9 | 3693.6 | 3725.8 | 3772.9 | 3826.2 | 3847.2 |
| 7.5° | 3371.4 | 3377.6 | 3388.8 | 3418.5 | 3470.6 | 3516.4 | 3558.5 | 3610.6 | 3675.0 | 3745.6 | 3782.8 |
| 10° | 3138.5 | 3147.2 | 3164.5 | 3206.7 | 3277.3 | 3340.5 | 3401.2 | 3473.0 | 3554.8 | 3642.8 | 3689.9 |
| 12.5° | 2973.7 | 2971.2 | 2978.7 | 3009.6 | 3071.6 | 3148.4 | 3236.4 | 3328.1 | 3428.4 | 3531.3 | 3588.3 |
| 15° | 2918.0 | 2904.3 | 2875.8 | 2868.4 | 2901.8 | 2978.7 | 3080.3 | 3193.0 | 3313.2 | 3437.1 | 3507.7 |
| 17.5° | 2952.6 | 2929.1 | 2851.0 | 2794.0 | 2789.1 | 2847.3 | 2955.1 | 3081.5 | 3220.3 | 3371.4 | 3459.4 |
| 20° | 3170.7 | 3115.0 | 2922.9 | 2790.3 | 2744.5 | 2773.0 | 2867.2 | 3001.0 | 3164.5 | 3365.3 | 3478.0 |
| 22.5° | 3692.4 | 3610.6 | 3202.9 | 2956.4 | 2801.5 | 2766.8 | 2837.4 | 2979.9 | 3170.7 | 3442.1 | 3585.8 |
| 25° | 4451.9 | 4335.4 | 3683.7 | 3370.2 | 3050.5 | 2865.9 | 2882.0 | 3028.2 | 3258.7 | 3620.5 | 3794.0 |
| 27.5° | 5051.6 | 4976.0 | 4311.9 | 3953.8 | 3504.0 | 3133.5 | 3027.0 | 3149.7 | 3438.4 | 3912.9 | 4090.1 |
| 30° | 5408.4 | 5362.6 | 4983.4 | 4615.4 | 4082.7 | 3559.8 | 3304.5 | 3377.6 | 3719.6 | 4318.1 | 4464.3 |
| 32.5° | 5822.3 | 5795.0 | 5609.2 | 5270.9 | 4707.1 | 4119.8 | 3744.4 | 3718.4 | 4096.3 | 4805.0 | 4871.9 |
| 35° | 6251.0 | 6242.3 | 6133.3 | 5890.4 | 5377.5 | 4858.3 | 4328.0 | 4152.0 | 4506.4 | 5310.6 | 5268.4 |
| 37.5° | 6650.0 | 6635.1 | 6571.9 | 6430.7 | 6078.8 | 5651.3 | 4922.7 | 4596.9 | 4948.8 | 5793.8 | 5606.7 |
| 40° | 7384.7 | 7268.2 | 7051.4 | 6944.9 | 6787.5 | 6319.1 | 5394.8 | 5011.9 | 5407.2 | 6254.7 | 5899.1 |
| 42.5° | 8280.5 | 8091.0 | 7687.0 | 7540.8 | 7518.5 | 6845.7 | 5717.0 | 5414.6 | 5869.4 | 6711.9 | 6186.6 |
| 45° | 8985.6 | 8807.1 | 8459.0 | 8274.4 | 8356.1 | 7322.8 | 6040.4 | 5844.6 | 6345.2 | 7191.4 | 6482.7 |
| 47.5° | 9737.7 | 9457.6 | 8996.7 | 9052.5 | 9230.9 | 7773.8 | 6369.9 | 6306.7 | 6866.8 | 7727.9 | 6850.7 |
| 50° | 9764.9 | 9550.6 | 9348.6 | 9681.9 | 9959.5 | 8188.9 | 6782.5 | 6791.2 | 7504.9 | 8403.2 | 7340.1 |
| 52.5° | 9198.7 | 9152.8 | 9473.7 | 9997.9 | 10398.1 | 8517.2 | 7252.1 | 7291.8 | 8321.4 | 9178.9 | 7877.9 |
| 55° | 9000.4 | 8948.4 | 9318.9 | 9887.6 | 10457.6 | 8788.6 | 7761.4 | 7833.3 | 9309.0 | 9996.6 | 8402.0 |
| 57.5° | 9483.7 | 9368.4 | 9393.2 | 9835.6 | 10312.6 | 9085.9 | 8316.5 | 8461.4 | 10382.0 | 10711.6 | 8739.0 |
| 60° | 10834.2 | 10587.7 | 10119.3 | 10108.1 | 10390.6 | 9532.0 | 8958.3 | 9135.5 | 11497.1 | 11053.5 | 8607.7 |
| 62.5° | 12728.7 | 12482.2 | 11604.9 | 11033.7 | 10991.6 | 10268.0 | 9746.3 | 9793.4 | 12141.4 | 10590.1 | 7806.0 |
| 65° | 14779.3 | 14558.8 | 13578.7 | 12772.1 | 12383.0 | 11487.2 | 10662.0 | 10087.1 | 11930.8 | 9315.2 | 6403.4 |
| 67.5° | 17268.6 | 17031.9 | 16189.4 | 15444.7 | 15070.5 | 13454.8 | 11305.1 | 9805.8 | 10593.8 | 7216.2 | 4603.1 |
| 70° | 19009.5 | 18767.8 | 18435.8 | 19039.2 | 19954.8 | 16293.5 | 11388.1 | 8662.2 | 7912.6 | 4796.3 | 2770.5 |
| 72.5° | 16738.3 | 16625.5 | 17231.4 | 19772.7 | 23586.5 | 18015.7 | 10294.0 | 6306.7 | 4595.6 | 2546.2 | 1603.3 |
| 73° | 15335.7 | 15310.9 | 16344.3 | 19258.5 | 23612.5 | 17750.6 | 9814.5 | 5861.9 | 3941.4 | 2252.6 | 1465.8 |
| 75° | 6925.0 | 7124.5 | 9389.5 | 14710.0 | 20514.9 | 14626.9 | 6907.7 | 3362.8 | 2226.6 | 1556.2 | 1106.5 |
| 77.5° | 1664.0 | 1733.4 | 2937.8 | 6985.7 | 12955.5 | 8716.7 | 3129.8 | 1662.8 | 1423.7 | 1099.0 | 807.9 |
| 80° | 708.7 | 732.3 | 1131.2 | 2580.9 | 6099.8 | 3510.2 | 1442.3 | 1113.9 | 985.0 | 767.0 | 566.2 |
| 82.5° | 394.0 | 418.8 | 641.8 | 1170.9 | 2462.0 | 1196.9 | 879.7 | 775.6 | 648.0 | 462.2 | 368.0 |
| 85° | 223.0 | 236.7 | 375.4 | 654.2 | 1043.3 | 480.8 | 526.6 | 515.4 | 365.5 | 237.9 | 180.9 |
| 87.5° | 105.3 | 114.0 | 180.9 | 303.6 | 408.9 | 188.3 | 267.6 | 294.9 | 229.2 | 145.0 | 94.2 |
| 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° | 3894.3 | 3894.3 | 3894.3 | 3894.3 | 3894.3 | 3894.3 | 3894.3 | 3894.3 | 3894.3 | 3894.3 |
| 2.5° | 3891.8 | 3914.1 | 3940.2 | 3953.8 | 3966.2 | 3981.1 | 3995.9 | 3995.9 | 3998.4 | 3999.6 |
| 5° | 3864.6 | 3910.4 | 3951.3 | 3968.7 | 3972.4 | 3972.4 | 3968.7 | 3948.8 | 3931.5 | 3938.9 |
| 7.5° | 3807.6 | 3874.5 | 3909.2 | 3903.0 | 3855.9 | 3801.4 | 3755.6 | 3699.8 | 3671.3 | 3666.3 |
| 10° | 3725.8 | 3802.6 | 3808.8 | 3746.9 | 3630.4 | 3513.9 | 3417.3 | 3323.1 | 3278.5 | 3267.4 |
| 12.5° | 3635.4 | 3706.0 | 3666.3 | 3538.7 | 3351.6 | 3181.9 | 3059.2 | 2963.8 | 2921.7 | 2910.5 |
| 15° | 3562.3 | 3610.6 | 3510.2 | 3309.5 | 3074.1 | 2894.4 | 2792.8 | 2722.2 | 2692.4 | 2683.8 |
| 17.5° | 3523.8 | 3533.8 | 3350.4 | 3079.0 | 2828.7 | 2678.8 | 2615.6 | 2582.2 | 2571.0 | 2564.8 |
| 20° | 3542.4 | 3473.0 | 3198.0 | 2864.7 | 2628.0 | 2522.7 | 2507.8 | 2499.2 | 2496.7 | 2493.0 |
| 22.5° | 3635.4 | 3454.5 | 3058.0 | 2661.5 | 2452.1 | 2406.2 | 2418.6 | 2417.4 | 2414.9 | 2412.4 |
| 25° | 3801.4 | 3470.6 | 2921.7 | 2468.2 | 2304.6 | 2294.7 | 2317.0 | 2317.0 | 2307.1 | 2307.1 |
| 27.5° | 4020.7 | 3504.0 | 2769.3 | 2284.8 | 2170.8 | 2172.0 | 2189.4 | 2184.4 | 2173.3 | 2165.9 |
| 30° | 4288.3 | 3525.1 | 2590.8 | 2120.0 | 2045.7 | 2040.7 | 2045.7 | 2024.6 | 1991.1 | 1988.7 |
| 32.5° | 4562.2 | 3499.1 | 2383.9 | 1973.8 | 1913.1 | 1901.9 | 1898.2 | 1868.5 | 1830.1 | 1818.9 |
| 35° | 4810.0 | 3403.7 | 2173.3 | 1857.3 | 1786.7 | 1761.9 | 1779.3 | 1769.4 | 1734.7 | 1726.0 |
| 37.5° | 4990.9 | 3226.5 | 1983.7 | 1754.5 | 1696.3 | 1690.1 | 1701.2 | 1704.9 | 1664.0 | 1655.4 |
| 40° | 5112.3 | 2986.1 | 1821.4 | 1667.8 | 1678.9 | 1655.4 | 1618.2 | 1592.2 | 1579.8 | 1576.1 |
| 42.5° | 5210.2 | 2735.8 | 1685.1 | 1626.9 | 1682.6 | 1614.5 | 1533.9 | 1491.8 | 1514.1 | 1524.0 |
| 45° | 5322.9 | 2491.7 | 1571.1 | 1576.1 | 1664.0 | 1567.4 | 1475.7 | 1434.8 | 1443.5 | 1446.0 |
| 47.5° | 5477.8 | 2194.4 | 1448.4 | 1494.3 | 1602.1 | 1535.2 | 1439.8 | 1381.5 | 1340.6 | 1322.1 |
| 50° | 5692.2 | 1842.5 | 1320.8 | 1402.6 | 1541.4 | 1511.6 | 1384.0 | 1322.1 | 1246.5 | 1229.1 |
| 52.5° | 5840.9 | 1514.1 | 1215.5 | 1325.8 | 1486.9 | 1464.6 | 1339.4 | 1258.9 | 1179.6 | 1164.7 |
| 55° | 5760.3 | 1257.6 | 1123.8 | 1240.3 | 1415.0 | 1406.3 | 1302.2 | 1194.4 | 1132.5 | 1120.1 |
| 57.5° | 5357.6 | 1095.3 | 1053.2 | 1159.7 | 1327.0 | 1356.8 | 1252.7 | 1139.9 | 1095.3 | 1086.6 |
| 60° | 4589.4 | 993.7 | 1008.6 | 1105.2 | 1255.2 | 1307.2 | 1203.1 | 1110.2 | 1080.4 | 1074.3 |
| 62.5° | 3561.0 | 925.6 | 975.1 | 1065.6 | 1199.4 | 1272.5 | 1175.9 | 1106.5 | 1095.3 | 1087.9 |
| 65° | 2551.2 | 871.0 | 939.2 | 1025.9 | 1148.6 | 1240.3 | 1165.9 | 1101.5 | 1104.0 | 1097.8 |
| 67.5° | 1733.4 | 822.7 | 895.8 | 981.3 | 1099.0 | 1211.8 | 1152.3 | 1084.2 | 1115.1 | 1107.7 |
| 70° | 1213.0 | 775.6 | 845.0 | 924.3 | 1037.1 | 1172.1 | 1127.5 | 1058.1 | 1055.7 | 1025.9 |
| 72.5° | 946.6 | 713.7 | 775.6 | 845.0 | 957.8 | 1116.4 | 1078.0 | 999.9 | 959.0 | 928.0 |
| 73° | 903.3 | 698.8 | 758.3 | 827.7 | 940.4 | 1102.8 | 1064.3 | 983.8 | 938.0 | 909.5 |
| 75° | 747.1 | 634.4 | 688.9 | 750.9 | 866.1 | 1038.3 | 997.4 | 910.7 | 852.5 | 835.1 |
| 77.5° | 587.3 | 542.7 | 594.7 | 650.5 | 763.3 | 944.2 | 898.3 | 815.3 | 783.1 | 768.2 |
| 80° | 434.9 | 449.8 | 495.6 | 545.2 | 661.7 | 843.8 | 802.9 | 719.9 | 863.6 | 827.7 |
| 82.5° | 306.0 | 340.7 | 382.9 | 427.5 | 555.1 | 745.9 | 696.3 | 610.8 | 631.9 | 525.4 |
| 85° | 180.9 | 223.0 | 262.7 | 301.1 | 400.2 | 618.3 | 574.9 | 486.9 | 399.0 | 380.4 |
| 87.5° | 105.3 | 123.9 | 135.1 | 174.7 | 275.1 | 465.9 | 405.2 | 360.6 | 206.9 | 140.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)