

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: P193202

Luminaire Tested: **GAN-AF-04-LED-U-T3-7030-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-T3-7030-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25480.3 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 258
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

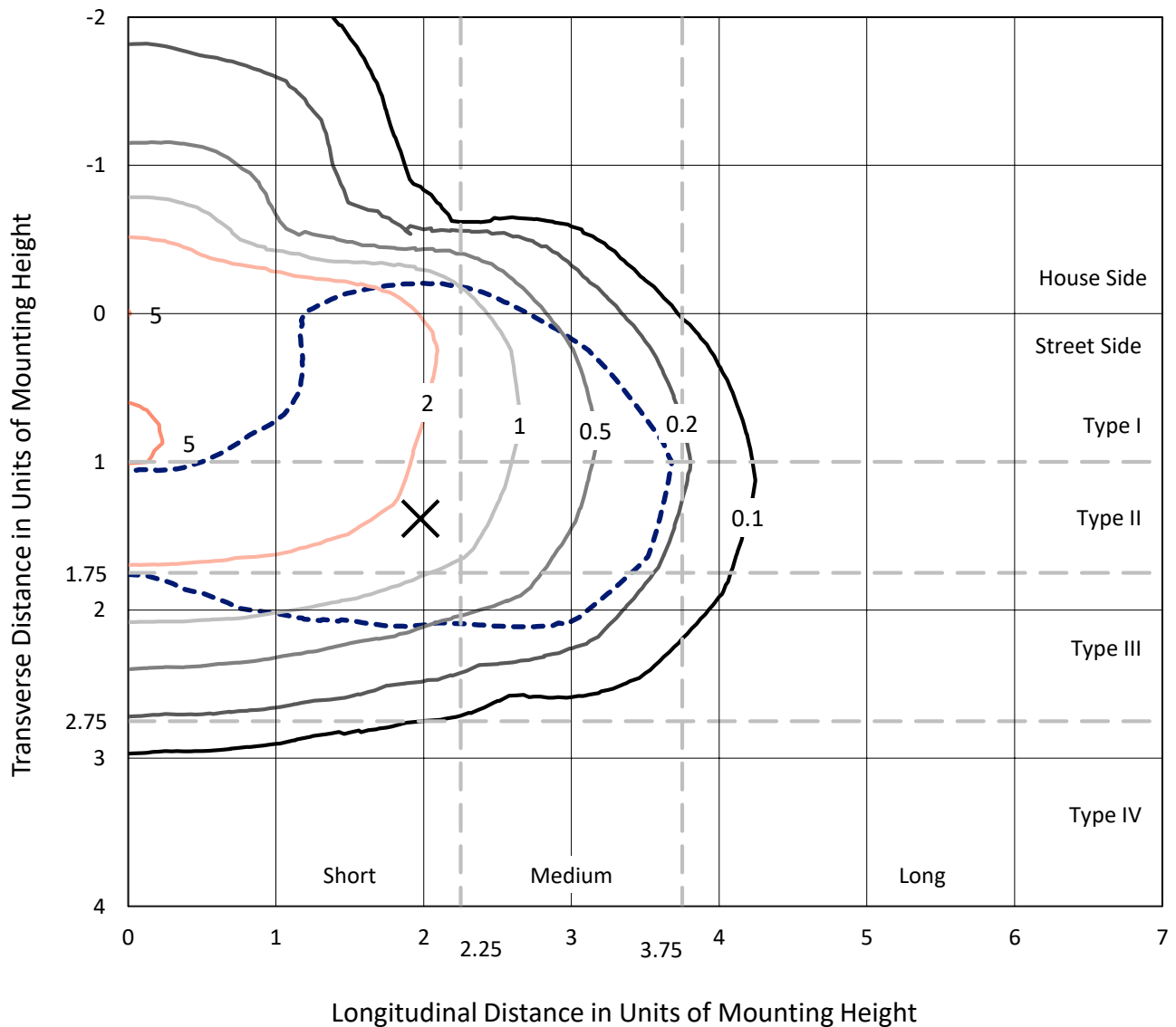


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

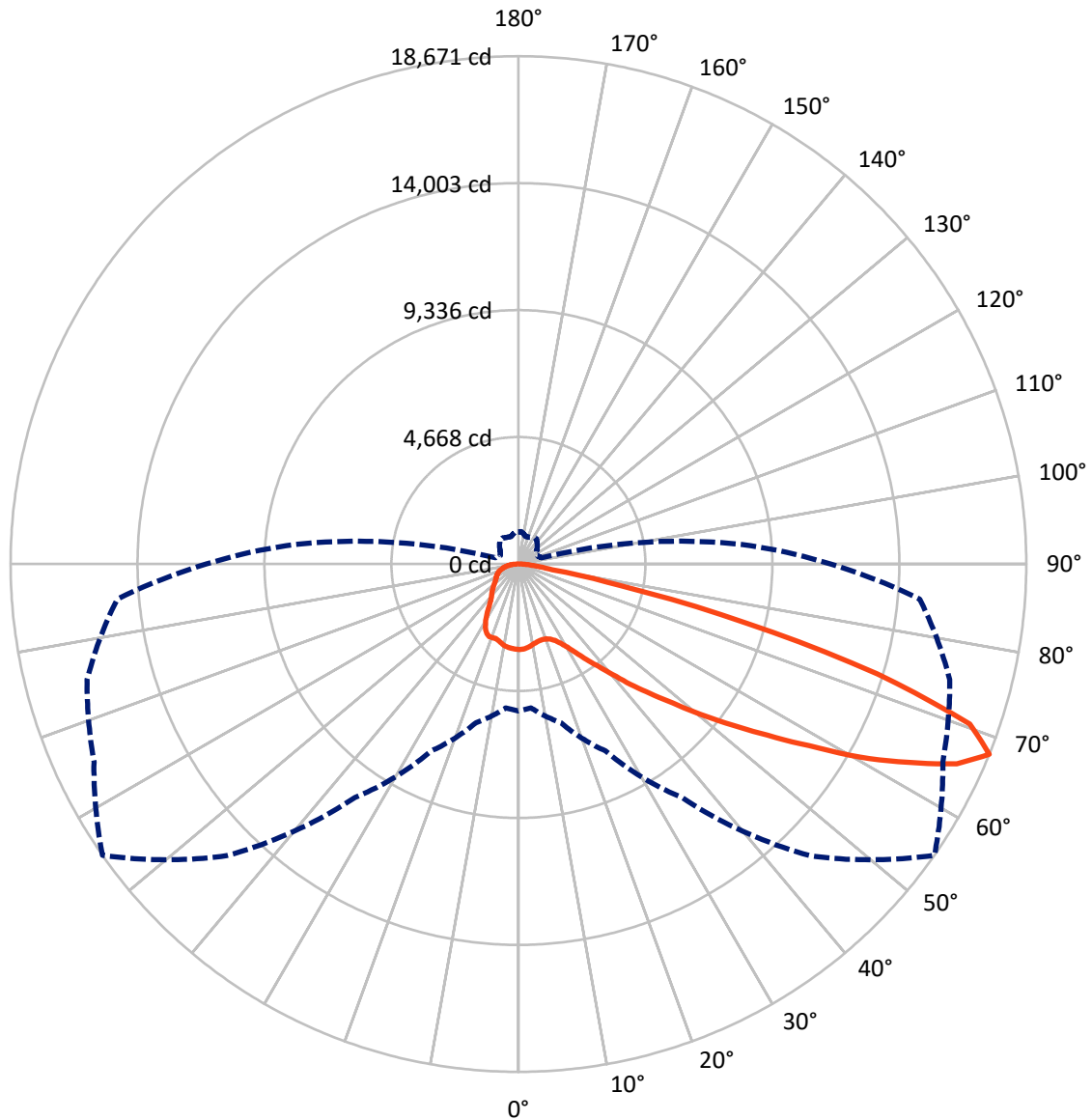


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5504.3 | 0.0 | 5504.3 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 19976.0 | 0.0 | 19976.0 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 25480.3 | 0.0 | 25480.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 293.3 | 1.2 |
| 10°-20° | 830.6 | 3.3 |
| 20°-30° | 1391.3 | 5.5 |
| 30°-40° | 2288.0 | 9.0 |
| 40°-50° | 3851.4 | 15.1 |
| 50°-60° | 6061.8 | 23.8 |
| 60°-70° | 7234.1 | 28.4 |
| 70°-80° | 3106.4 | 12.2 |
| 80°-90° | 423.5 | 1.7 |
| 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° | 25480.3 | 100.0 |
| 0°-180° | 25480.3 | 100.0 |

Coefficient of Utilization



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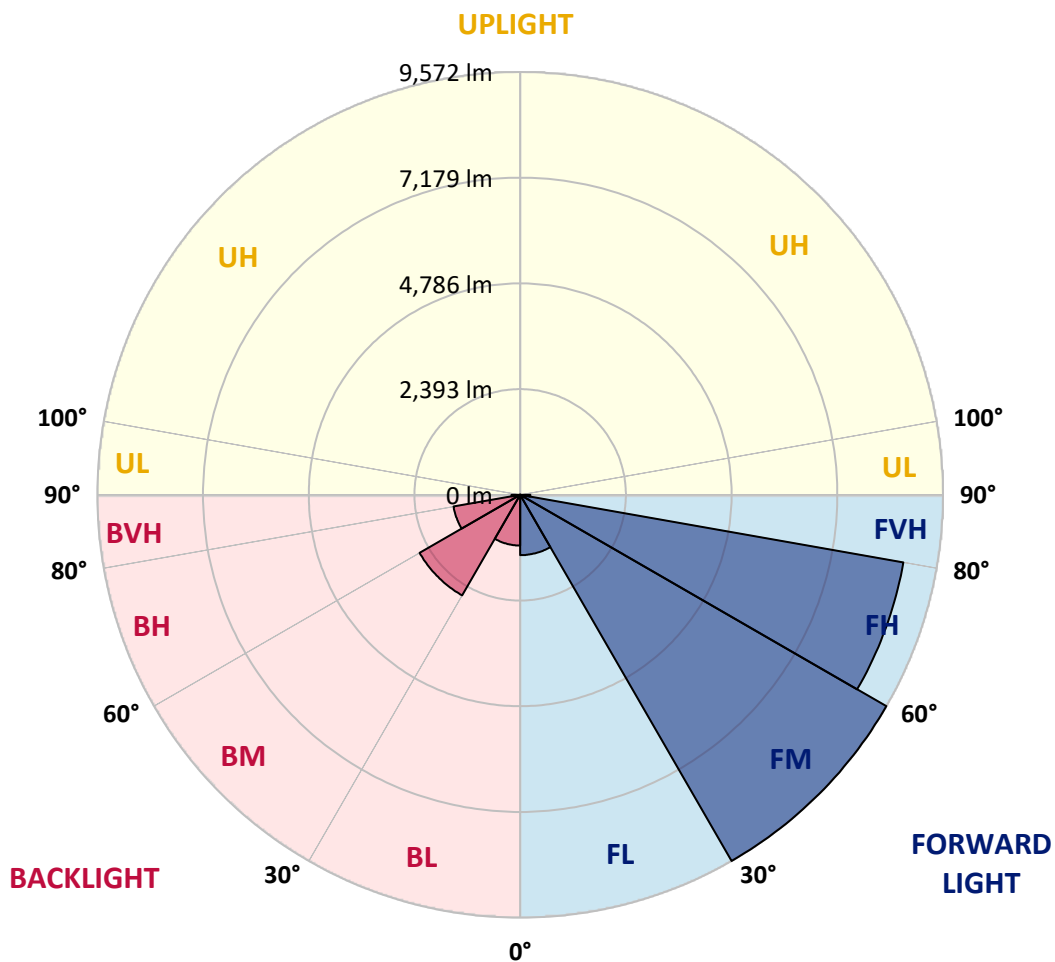
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1365.8 | 5.4 | | | |
| FM | (30°-60°) | 9572.3 | 37.6 | | | |
| FH | (60°-80°) | 8808.7 | 34.6 | | | G4/12000 |
| FVH | (80°-90°) | 229.3 | 0.9 | | | G3/500 |
| BL | (0°-30°) | 1149.4 | 4.5 | B3/2500 | | |
| BM | (30°-60°) | 2628.8 | 10.3 | B3/5000 | | |
| BH | (60°-80°) | 1531.8 | 6.0 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 194.3 | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3142.0 | 3142.0 | 3142.0 | 3142.0 | 3142.0 | 3142.0 | 3142.0 | 3142.0 | 3142.0 | 3142.0 | 3142.0 |
| 2.5° | 3115.0 | 3116.2 | 3118.6 | 3128.4 | 3137.1 | 3134.6 | 3135.8 | 3131.0 | 3129.7 | 3122.3 | 3129.7 |
| 5° | 3075.5 | 3079.3 | 3080.4 | 3096.5 | 3106.3 | 3108.8 | 3105.0 | 3098.9 | 3091.6 | 3084.2 | 3087.8 |
| 7.5° | 2985.7 | 2995.6 | 2996.8 | 3019.0 | 3034.9 | 3055.9 | 3057.1 | 3058.2 | 3054.7 | 3049.8 | 3057.1 |
| 10° | 2929.1 | 2931.5 | 2930.4 | 2946.2 | 2958.6 | 2982.0 | 2995.6 | 3019.0 | 3028.7 | 3031.3 | 3036.2 |
| 12.5° | 2925.4 | 2922.9 | 2919.3 | 2919.3 | 2915.6 | 2925.4 | 2950.0 | 2983.3 | 3006.6 | 3014.0 | 3020.2 |
| 15° | 2964.8 | 2963.5 | 2951.2 | 2932.7 | 2909.3 | 2902.0 | 2922.9 | 2959.9 | 2990.7 | 3006.6 | 3012.9 |
| 17.5° | 3053.4 | 3046.0 | 3026.4 | 2984.5 | 2934.0 | 2914.3 | 2916.7 | 2947.6 | 2983.3 | 3004.2 | 3010.3 |
| 20° | 3215.8 | 3215.8 | 3174.0 | 3095.2 | 3005.4 | 2958.6 | 2936.5 | 2954.9 | 2989.5 | 3017.7 | 3026.4 |
| 22.5° | 3496.4 | 3498.9 | 3428.8 | 3299.5 | 3148.2 | 3048.5 | 2993.0 | 2989.5 | 3030.0 | 3062.0 | 3071.9 |
| 25° | 3894.0 | 3884.1 | 3785.7 | 3601.0 | 3370.8 | 3206.0 | 3109.9 | 3087.8 | 3122.3 | 3158.0 | 3170.2 |
| 27.5° | 4356.7 | 4320.9 | 4204.1 | 3981.3 | 3683.5 | 3442.3 | 3294.6 | 3258.8 | 3292.2 | 3332.7 | 3345.1 |
| 30° | 4814.5 | 4777.6 | 4638.6 | 4394.9 | 4063.8 | 3758.6 | 3546.9 | 3489.0 | 3535.8 | 3593.6 | 3601.0 |
| 32.5° | 5272.5 | 5272.5 | 5117.2 | 4833.0 | 4472.4 | 4136.4 | 3882.8 | 3814.0 | 3891.5 | 3961.6 | 3977.7 |
| 35° | 5820.0 | 5822.5 | 5672.3 | 5330.2 | 4942.6 | 4586.8 | 4307.4 | 4257.1 | 4373.9 | 4423.2 | 4461.3 |
| 37.5° | 6493.3 | 6506.7 | 6313.5 | 5900.0 | 5475.4 | 5101.4 | 4769.0 | 4700.2 | 4817.0 | 4951.2 | 5074.2 |
| 40° | 7220.6 | 7237.8 | 7025.0 | 6515.3 | 6090.7 | 5699.4 | 5340.0 | 5215.7 | 5410.2 | 5666.1 | 5824.9 |
| 42.5° | 7914.7 | 8003.4 | 7797.9 | 7273.5 | 6816.9 | 6412.0 | 6047.7 | 5866.7 | 6110.5 | 6496.9 | 6634.8 |
| 45° | 8917.7 | 8981.7 | 8623.7 | 8148.5 | 7719.0 | 7266.1 | 6783.7 | 6592.9 | 6933.8 | 7421.2 | 7449.6 |
| 47.5° | 9586.0 | 9538.0 | 9355.9 | 9060.6 | 8788.5 | 8365.1 | 7639.0 | 7429.8 | 7882.7 | 8456.2 | 8297.4 |
| 50° | 9941.7 | 9956.5 | 9931.8 | 9949.0 | 9958.9 | 9693.1 | 8687.6 | 8400.8 | 8941.1 | 9634.1 | 9268.5 |
| 52.5° | 10273.9 | 10175.6 | 10256.7 | 10660.4 | 11147.8 | 11049.3 | 9828.4 | 9529.4 | 10075.8 | 10941.0 | 10295.0 |
| 55° | 10266.5 | 10116.5 | 10381.0 | 11093.6 | 12150.8 | 12264.1 | 11109.6 | 10765.0 | 11275.8 | 12342.8 | 11382.8 |
| 57.5° | 9903.6 | 9910.9 | 10318.3 | 11251.2 | 12849.9 | 13406.1 | 12596.3 | 12079.3 | 12548.3 | 13763.1 | 12376.1 |
| 60° | 9403.8 | 9471.5 | 10058.6 | 11225.3 | 13409.8 | 14342.7 | 14420.2 | 13496.0 | 13795.1 | 15054.1 | 13198.2 |
| 62.5° | 8597.7 | 8669.1 | 9478.9 | 10957.1 | 13324.9 | 15244.8 | 16069.5 | 15103.2 | 15098.3 | 15836.8 | 13439.3 |
| 65° | 7326.4 | 7305.5 | 8155.8 | 9953.9 | 12612.4 | 15911.9 | 17707.4 | 16492.8 | 16080.4 | 15849.1 | 12954.5 |
| 67.5° | 5402.9 | 5309.2 | 6039.1 | 7581.2 | 10483.2 | 15164.8 | 18671.1 | 17216.4 | 16415.2 | 14806.7 | 11472.7 |
| 70° | 2803.6 | 2710.0 | 3300.7 | 4426.8 | 6894.5 | 11835.7 | 17604.1 | 16842.4 | 15675.5 | 12411.8 | 8987.8 |
| 72.5° | 1198.7 | 1182.7 | 1422.7 | 1942.1 | 3335.2 | 6826.7 | 13803.7 | 14577.8 | 13450.5 | 9247.6 | 6179.3 |
| 75° | 806.2 | 801.2 | 891.0 | 1058.4 | 1500.2 | 2770.4 | 8638.4 | 10347.8 | 9840.8 | 5733.9 | 3475.5 |
| 77.5° | 632.6 | 626.4 | 679.4 | 760.6 | 972.3 | 1092.9 | 3833.7 | 5555.4 | 5142.0 | 2495.9 | 1521.1 |
| 80° | 494.7 | 489.8 | 523.1 | 567.4 | 699.0 | 689.2 | 1261.5 | 2210.4 | 1710.7 | 956.2 | 739.6 |
| 82.5° | 390.2 | 390.2 | 417.3 | 418.5 | 495.9 | 470.2 | 658.4 | 973.5 | 854.1 | 557.6 | 452.9 |
| 85° | 356.9 | 356.9 | 385.2 | 312.6 | 323.6 | 296.6 | 408.6 | 577.2 | 541.5 | 228.9 | 196.8 |
| 87.5° | 179.7 | 174.9 | 323.6 | 276.9 | 176.0 | 157.6 | 199.4 | 279.3 | 300.3 | 126.7 | 98.5 |
| 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° | 3142.0 | 3142.0 | 3142.0 | 3142.0 | 3142.0 | 3142.0 | 3142.0 | 3142.0 | 3142.0 | 3142.0 |
| 2.5° | 3127.2 | 3126.0 | 3128.4 | 3129.7 | 3139.6 | 3153.1 | 3159.2 | 3167.9 | 3172.8 | 3170.2 |
| 5° | 3090.3 | 3092.8 | 3102.6 | 3109.9 | 3127.2 | 3149.4 | 3161.8 | 3171.6 | 3180.2 | 3176.5 |
| 7.5° | 3059.6 | 3065.7 | 3080.4 | 3086.6 | 3096.5 | 3102.6 | 3101.5 | 3105.0 | 3112.5 | 3103.8 |
| 10° | 3042.4 | 3049.8 | 3060.8 | 3052.1 | 3028.7 | 2995.6 | 2964.8 | 2948.8 | 2953.8 | 2947.6 |
| 12.5° | 3025.1 | 3034.9 | 3026.4 | 2985.7 | 2920.5 | 2877.5 | 2854.1 | 2856.5 | 2867.5 | 2870.0 |
| 15° | 3015.2 | 3019.0 | 2982.0 | 2905.8 | 2839.2 | 2833.1 | 2845.4 | 2842.9 | 2844.1 | 2844.1 |
| 17.5° | 3015.2 | 3005.4 | 2936.5 | 2860.2 | 2831.9 | 2820.7 | 2782.7 | 2734.6 | 2713.7 | 2706.4 |
| 20° | 3031.3 | 3005.4 | 2921.7 | 2871.3 | 2809.7 | 2715.0 | 2614.0 | 2525.4 | 2486.0 | 2474.9 |
| 22.5° | 3079.3 | 3034.9 | 2963.5 | 2876.1 | 2701.4 | 2542.7 | 2382.6 | 2276.9 | 2205.4 | 2193.2 |
| 25° | 3176.5 | 3127.2 | 3046.0 | 2810.9 | 2529.2 | 2302.6 | 2120.5 | 2002.4 | 1930.9 | 1921.1 |
| 27.5° | 3346.3 | 3314.3 | 3090.3 | 2666.9 | 2300.2 | 2057.8 | 1889.1 | 1798.1 | 1745.2 | 1741.5 |
| 30° | 3602.3 | 3586.3 | 3068.1 | 2454.1 | 2018.3 | 1820.3 | 1739.0 | 1686.1 | 1646.6 | 1645.5 |
| 32.5° | 4010.9 | 3881.7 | 2995.6 | 2194.4 | 1761.2 | 1651.6 | 1618.3 | 1586.3 | 1555.7 | 1555.7 |
| 35° | 4536.5 | 4120.3 | 2857.6 | 1916.2 | 1604.8 | 1558.0 | 1516.2 | 1465.8 | 1425.2 | 1422.7 |
| 37.5° | 5154.2 | 4268.1 | 2610.3 | 1692.2 | 1531.0 | 1495.3 | 1433.8 | 1358.7 | 1287.3 | 1275.0 |
| 40° | 5778.1 | 4312.5 | 2262.0 | 1554.4 | 1484.3 | 1432.5 | 1357.4 | 1268.8 | 1200.0 | 1196.3 |
| 42.5° | 6350.4 | 4227.5 | 1892.8 | 1459.6 | 1437.6 | 1368.6 | 1289.8 | 1211.0 | 1156.8 | 1155.6 |
| 45° | 6830.5 | 4007.2 | 1582.7 | 1369.8 | 1388.2 | 1310.7 | 1240.5 | 1176.6 | 1134.7 | 1126.1 |
| 47.5° | 7282.1 | 3695.8 | 1364.8 | 1275.0 | 1339.0 | 1278.7 | 1219.7 | 1159.4 | 1118.7 | 1112.6 |
| 50° | 7806.3 | 3359.8 | 1212.2 | 1182.7 | 1296.0 | 1267.6 | 1236.9 | 1174.1 | 1106.4 | 1099.0 |
| 52.5° | 8441.5 | 3069.4 | 1092.9 | 1101.5 | 1262.7 | 1282.3 | 1281.2 | 1215.9 | 1097.8 | 1087.9 |
| 55° | 9150.4 | 2747.0 | 1003.0 | 1035.0 | 1249.2 | 1309.5 | 1292.2 | 1255.3 | 1105.1 | 1090.4 |
| 57.5° | 9848.2 | 2370.4 | 940.2 | 984.5 | 1229.5 | 1307.1 | 1239.3 | 1186.4 | 1122.4 | 1101.5 |
| 60° | 10371.2 | 1864.5 | 892.2 | 940.2 | 1186.4 | 1266.5 | 1181.5 | 1111.3 | 1118.7 | 1102.8 |
| 62.5° | 10405.7 | 1441.1 | 834.4 | 902.2 | 1121.2 | 1225.8 | 1143.3 | 1078.1 | 1134.7 | 1119.9 |
| 65° | 9794.0 | 1089.2 | 779.0 | 856.6 | 1051.1 | 1200.0 | 1106.4 | 1059.6 | 1168.0 | 1151.9 |
| 67.5° | 8245.8 | 876.3 | 732.2 | 809.8 | 980.9 | 1145.8 | 1073.2 | 1042.5 | 1197.5 | 1169.2 |
| 70° | 5953.0 | 747.0 | 686.7 | 753.3 | 918.1 | 1084.3 | 1043.7 | 1011.6 | 1117.5 | 1073.2 |
| 72.5° | 3665.1 | 647.4 | 635.1 | 678.2 | 870.1 | 1020.3 | 999.2 | 953.9 | 1006.8 | 971.0 |
| 75° | 1830.1 | 561.1 | 577.2 | 604.3 | 802.4 | 947.6 | 925.5 | 880.0 | 887.3 | 880.0 |
| 77.5° | 876.3 | 479.9 | 509.4 | 530.5 | 715.0 | 865.3 | 841.9 | 795.1 | 786.4 | 787.6 |
| 80° | 555.0 | 401.2 | 429.5 | 444.2 | 638.7 | 769.1 | 745.8 | 699.0 | 797.5 | 739.6 |
| 82.5° | 347.0 | 326.1 | 333.6 | 360.5 | 556.2 | 669.5 | 638.7 | 596.9 | 718.7 | 568.5 |
| 85° | 192.0 | 227.7 | 237.5 | 260.9 | 428.3 | 560.0 | 529.3 | 476.3 | 427.1 | 419.7 |
| 87.5° | 114.5 | 135.4 | 139.1 | 156.3 | 288.0 | 405.0 | 358.2 | 339.7 | 281.8 | 280.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)