

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: P192998

Luminaire Tested: **GAN-AF-10-LED-U-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-SL4-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54145.6 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

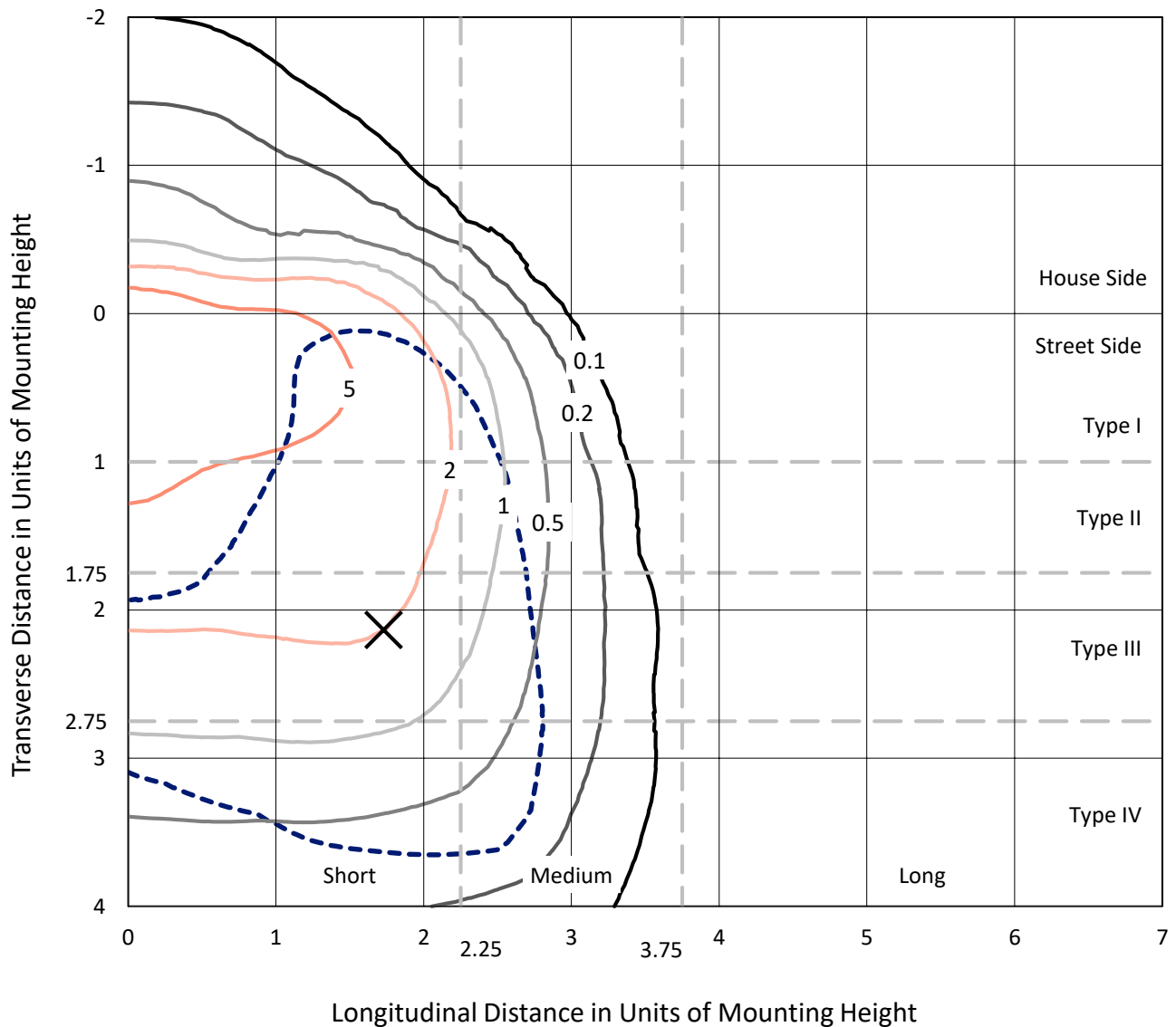
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

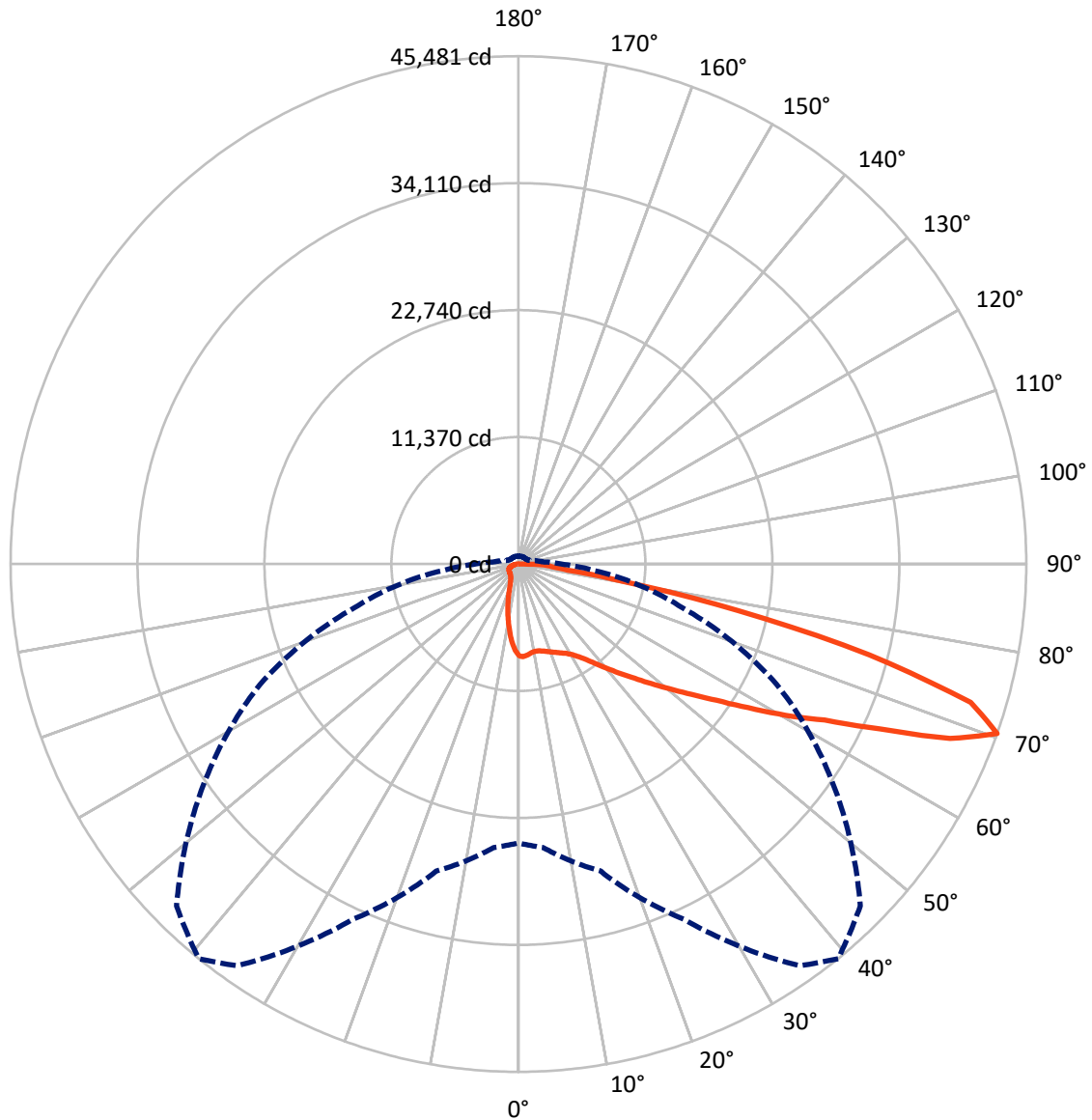


Based on 30 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6158.2 | 0.0 | 6158.2 |
| | % Fixture | 11.4 | 0.0 | 11.4 |
| Street Side | Lumens | 47987.4 | 0.0 | 47987.4 |
| | % Fixture | 88.6 | 0.0 | 88.6 |
| Total | Lumens | 54145.6 | 0.0 | 54145.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 705.4 | 1.3 |
| 10°-20° | 1763.3 | 3.3 |
| 20°-30° | 2745.6 | 5.1 |
| 30°-40° | 4277.1 | 7.9 |
| 40°-50° | 7180.5 | 13.3 |
| 50°-60° | 11406.9 | 21.1 |
| 60°-70° | 15215.5 | 28.1 |
| 70°-80° | 9188.3 | 17.0 |
| 80°-90° | 1663.0 | 3.1 |
| 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° | 54145.6 | 100.0 |
| 0°-180° | 54145.6 | 100.0 |



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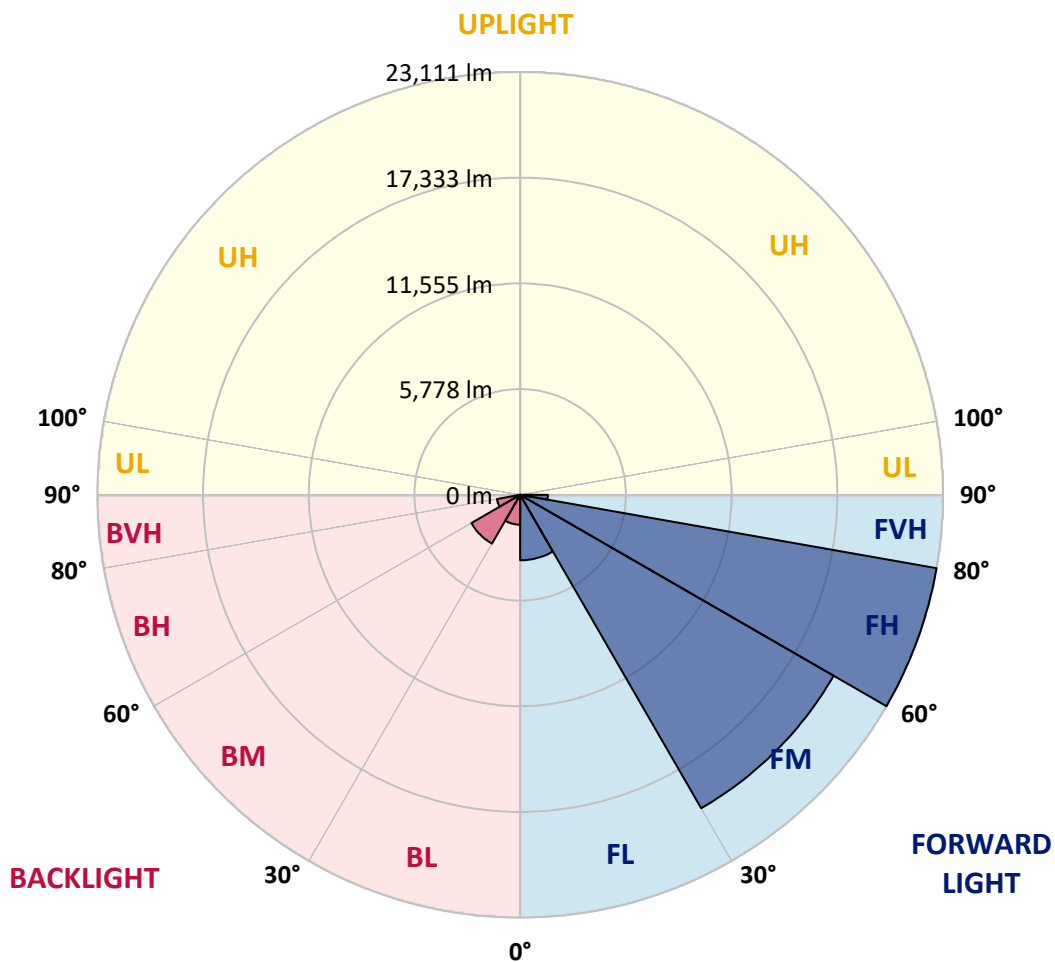
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3580.7 | 6.6 | | | |
| FM | (30°-60°) | 19782.7 | 36.5 | | | |
| FH | (60°-80°) | 23110.9 | 42.7 | | | G5 |
| FVH | (80°-90°) | 1513.1 | 2.8 | | | G5 |
| BL | (0°-30°) | 1633.7 | 3.0 | B3/2500 | | |
| BM | (30°-60°) | 3081.8 | 5.7 | B3/5000 | | |
| BH | (60°-80°) | 1292.8 | 2.4 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 149.9 | 0.3 | | | G2/225 |
| 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° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8220.1 | 8220.1 | 8220.1 | 8220.1 | 8220.1 | 8220.1 | 8220.1 | 8220.1 | 8220.1 | 8220.1 | 8220.1 |
| 2.5° | 8379.8 | 8377.0 | 8355.0 | 8338.5 | 8324.8 | 8319.2 | 8330.3 | 8289.0 | 8253.2 | 8209.0 | 8162.3 |
| 5° | 8316.5 | 8313.7 | 8277.9 | 8244.9 | 8211.9 | 8200.9 | 8198.2 | 8123.8 | 8079.7 | 8013.7 | 7925.5 |
| 7.5° | 8247.7 | 8233.9 | 8187.2 | 8132.0 | 8074.3 | 8046.7 | 8019.2 | 7922.8 | 7873.3 | 7807.2 | 7705.4 |
| 10° | 8176.1 | 8159.6 | 8115.6 | 8060.5 | 8005.4 | 7964.1 | 7917.4 | 7823.7 | 7771.4 | 7721.9 | 7603.5 |
| 12.5° | 8101.8 | 8088.0 | 8077.0 | 8052.2 | 8013.7 | 7977.9 | 7942.0 | 7862.3 | 7807.2 | 7749.4 | 7611.8 |
| 15° | 8090.7 | 8085.3 | 8110.0 | 8126.6 | 8104.6 | 8082.5 | 8044.0 | 7975.2 | 7917.4 | 7859.6 | 7680.6 |
| 17.5° | 8178.8 | 8176.1 | 8239.5 | 8283.5 | 8272.4 | 8233.9 | 8181.6 | 8104.6 | 8057.8 | 8008.1 | 7785.2 |
| 20° | 8371.6 | 8385.3 | 8462.3 | 8520.2 | 8465.2 | 8410.1 | 8324.8 | 8217.4 | 8192.6 | 8170.6 | 7892.6 |
| 22.5° | 8734.9 | 8748.7 | 8803.8 | 8825.8 | 8682.7 | 8602.7 | 8484.4 | 8346.8 | 8330.3 | 8346.8 | 8022.0 |
| 25° | 9302.0 | 9288.2 | 9280.1 | 9197.5 | 8935.9 | 8812.0 | 8660.7 | 8517.5 | 8525.7 | 8600.1 | 8203.6 |
| 27.5° | 10053.6 | 9979.2 | 9863.6 | 9615.9 | 9200.1 | 9062.5 | 8878.1 | 8745.9 | 8798.2 | 8941.4 | 8476.2 |
| 30° | 10832.6 | 10750.0 | 10483.0 | 10078.3 | 9547.1 | 9395.6 | 9189.1 | 9040.5 | 9178.1 | 9403.8 | 8839.5 |
| 32.5° | 11553.9 | 11542.9 | 11152.0 | 10631.7 | 10026.0 | 9893.9 | 9687.5 | 9519.5 | 9742.5 | 10086.6 | 9384.6 |
| 35° | 12341.3 | 12366.0 | 11898.0 | 11273.2 | 10673.0 | 10535.4 | 10386.6 | 10260.0 | 10557.4 | 11030.9 | 10174.7 |
| 37.5° | 13183.7 | 13233.2 | 12679.9 | 11975.2 | 11410.7 | 11352.9 | 11264.8 | 11209.8 | 11669.6 | 12324.7 | 11278.7 |
| 40° | 14309.5 | 14260.0 | 13492.0 | 12767.9 | 12316.5 | 12313.7 | 12286.2 | 12352.2 | 13117.5 | 14015.0 | 12696.4 |
| 42.5° | 15515.4 | 15369.4 | 14353.6 | 13618.6 | 13310.3 | 13403.8 | 13458.9 | 13728.7 | 14860.2 | 16068.6 | 14425.2 |
| 45° | 16814.7 | 16487.1 | 15248.3 | 14518.8 | 14414.1 | 14612.4 | 14799.6 | 15385.9 | 16911.0 | 18405.9 | 16319.2 |
| 47.5° | 17852.5 | 17535.9 | 16173.2 | 15463.0 | 15691.5 | 15991.5 | 16352.2 | 17279.9 | 19206.9 | 20820.1 | 18188.4 |
| 50° | 18670.1 | 18463.6 | 17106.5 | 16564.1 | 17098.2 | 17560.7 | 18149.8 | 19424.4 | 21596.4 | 23171.1 | 19919.9 |
| 52.5° | 19463.0 | 19308.9 | 18048.0 | 17692.9 | 18750.0 | 19388.6 | 20189.7 | 21725.8 | 24046.6 | 25483.5 | 21376.2 |
| 55° | 20178.8 | 20068.6 | 19061.1 | 19099.6 | 20693.4 | 21524.8 | 22532.4 | 24346.6 | 26716.8 | 27545.5 | 22609.6 |
| 57.5° | 20985.3 | 20844.9 | 20217.3 | 20864.1 | 23190.4 | 24269.5 | 25579.9 | 27292.2 | 29221.9 | 29378.9 | 23548.2 |
| 60° | 21797.4 | 21676.3 | 21500.1 | 22901.3 | 26361.7 | 27495.8 | 28737.5 | 30147.0 | 31762.9 | 30802.2 | 23493.3 |
| 62.5° | 22502.2 | 22515.9 | 22827.0 | 25040.4 | 29467.0 | 30780.1 | 32294.2 | 33687.2 | 34061.6 | 31049.9 | 21756.1 |
| 65° | 23696.9 | 23914.4 | 24842.2 | 28068.4 | 33838.5 | 35594.9 | 37453.1 | 37230.1 | 34697.5 | 28734.7 | 18031.5 |
| 67.5° | 25117.4 | 25500.0 | 27380.3 | 32104.3 | 39363.6 | 41695.3 | 42413.9 | 38031.3 | 32151.0 | 23358.3 | 12853.3 |
| 70° | 24974.3 | 25500.0 | 28475.9 | 35113.2 | 43917.0 | 45480.6 | 43300.3 | 34419.4 | 25530.4 | 15259.2 | 6827.2 |
| 72.5° | 22177.3 | 22928.8 | 26243.3 | 33734.1 | 42482.6 | 42345.1 | 37590.7 | 25659.7 | 15168.5 | 6128.0 | 2667.6 |
| 75° | 16902.7 | 17662.6 | 20514.5 | 26650.7 | 33577.0 | 32420.8 | 26672.8 | 14174.6 | 5756.4 | 2433.5 | 1682.0 |
| 77.5° | 9723.2 | 10312.3 | 12514.7 | 16344.0 | 21302.0 | 20115.4 | 14846.3 | 6304.2 | 2802.5 | 1695.8 | 1313.1 |
| 80° | 5428.6 | 5756.4 | 7094.2 | 8291.6 | 10438.9 | 9569.0 | 6642.8 | 3917.4 | 2092.2 | 1230.6 | 1013.1 |
| 82.5° | 4291.8 | 4583.5 | 5736.9 | 5230.5 | 4768.0 | 4399.1 | 3815.6 | 3487.9 | 1671.0 | 776.3 | 605.7 |
| 85° | 3749.4 | 4027.6 | 4856.1 | 4118.3 | 3256.7 | 2986.9 | 3099.8 | 3432.8 | 1299.4 | 467.9 | 517.6 |
| 87.5° | 3474.1 | 3845.8 | 4327.5 | 3174.1 | 2535.5 | 2246.4 | 2860.3 | 3763.2 | 418.5 | 291.8 | 209.2 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8220.1 | 8220.1 | 8220.1 | 8220.1 | 8220.1 | 8220.1 | 8220.1 | 8220.1 | 8220.1 | 8220.1 | 8220.1 |
| 2.5° | 8121.0 | 8077.0 | 8005.4 | 7942.0 | 7842.9 | 7790.7 | 7733.0 | 7691.7 | 7658.5 | 7631.0 | 7675.0 |
| 5° | 7870.5 | 7787.9 | 7636.5 | 7474.1 | 7281.4 | 7130.0 | 7003.4 | 6885.0 | 6802.4 | 6747.3 | 6785.9 |
| 7.5° | 7633.7 | 7498.9 | 7262.1 | 6967.6 | 6637.3 | 6356.4 | 6125.2 | 5921.6 | 5781.1 | 5690.2 | 5726.1 |
| 10° | 7498.9 | 7331.0 | 6964.8 | 6502.3 | 6015.0 | 5577.3 | 5214.0 | 4900.2 | 4682.7 | 4558.9 | 4578.1 |
| 12.5° | 7465.9 | 7248.4 | 6741.9 | 6106.0 | 5439.7 | 4831.3 | 4319.2 | 3884.3 | 3578.8 | 3419.0 | 3424.6 |
| 15° | 7490.6 | 7212.5 | 6532.6 | 5726.1 | 4883.7 | 4115.6 | 3476.9 | 2948.4 | 2593.3 | 2411.6 | 2408.7 |
| 17.5° | 7531.9 | 7185.1 | 6312.4 | 5315.8 | 4319.2 | 3427.4 | 2714.3 | 2196.7 | 1883.0 | 1737.1 | 1726.1 |
| 20° | 7575.9 | 7140.9 | 6064.7 | 4872.6 | 3733.0 | 2788.8 | 2125.2 | 1720.5 | 1522.3 | 1442.5 | 1437.0 |
| 22.5° | 7639.3 | 7102.5 | 5808.7 | 4404.7 | 3157.6 | 2271.2 | 1748.0 | 1475.5 | 1370.9 | 1329.6 | 1324.1 |
| 25° | 7741.1 | 7083.2 | 5536.0 | 3917.4 | 2640.0 | 1899.5 | 1522.3 | 1354.4 | 1293.8 | 1266.4 | 1263.6 |
| 27.5° | 7911.8 | 7110.7 | 5280.1 | 3443.9 | 2218.8 | 1648.9 | 1395.7 | 1293.8 | 1249.8 | 1225.1 | 1222.3 |
| 30° | 8132.0 | 7196.1 | 5010.3 | 2995.2 | 1891.3 | 1478.3 | 1318.6 | 1252.5 | 1216.8 | 1192.0 | 1192.0 |
| 32.5° | 8498.1 | 7339.2 | 4726.8 | 2607.0 | 1657.3 | 1360.0 | 1260.9 | 1216.8 | 1186.4 | 1167.2 | 1164.4 |
| 35° | 9037.7 | 7609.1 | 4462.4 | 2284.9 | 1489.3 | 1274.6 | 1211.2 | 1178.3 | 1156.2 | 1145.2 | 1145.2 |
| 37.5° | 9822.3 | 8035.7 | 4228.5 | 2053.6 | 1387.5 | 1216.8 | 1164.4 | 1139.7 | 1125.9 | 1125.9 | 1125.9 |
| 40° | 10876.6 | 8624.8 | 4038.6 | 1899.5 | 1329.6 | 1175.5 | 1128.6 | 1109.4 | 1101.2 | 1103.9 | 1103.9 |
| 42.5° | 12178.8 | 9390.2 | 3911.8 | 1792.2 | 1302.2 | 1150.7 | 1103.9 | 1087.3 | 1079.2 | 1076.4 | 1079.2 |
| 45° | 13662.7 | 10260.0 | 3898.2 | 1712.3 | 1274.6 | 1134.2 | 1087.3 | 1070.8 | 1054.4 | 1043.3 | 1043.3 |
| 47.5° | 15105.1 | 11143.7 | 4011.0 | 1684.8 | 1244.4 | 1114.9 | 1073.6 | 1057.1 | 1032.3 | 1007.6 | 1007.6 |
| 50° | 16379.7 | 11895.3 | 4162.3 | 1695.8 | 1233.3 | 1087.3 | 1051.6 | 1043.3 | 1004.8 | 977.4 | 974.5 |
| 52.5° | 17392.8 | 12473.4 | 4286.2 | 1728.8 | 1244.4 | 1068.1 | 1024.1 | 1026.8 | 985.5 | 955.3 | 952.5 |
| 55° | 18204.9 | 12853.3 | 4253.3 | 1761.8 | 1269.0 | 1057.1 | 999.2 | 1004.8 | 971.8 | 941.5 | 941.5 |
| 57.5° | 18560.0 | 12712.9 | 3887.1 | 1734.3 | 1288.3 | 1059.9 | 980.0 | 1002.0 | 974.5 | 947.0 | 947.0 |
| 60° | 17797.5 | 11465.7 | 3201.7 | 1613.2 | 1263.6 | 1051.6 | 971.8 | 1013.1 | 1010.3 | 982.8 | 980.0 |
| 62.5° | 15490.6 | 9233.2 | 2483.1 | 1434.2 | 1178.3 | 1010.3 | 949.8 | 1010.3 | 1040.5 | 1032.3 | 1029.6 |
| 65° | 11939.3 | 6576.7 | 1896.7 | 1241.5 | 1062.6 | 941.5 | 891.9 | 947.0 | 988.2 | 999.2 | 996.6 |
| 67.5° | 7749.4 | 4030.2 | 1461.8 | 1059.9 | 933.2 | 861.6 | 817.6 | 842.4 | 850.7 | 850.7 | 845.1 |
| 70° | 3810.0 | 2169.3 | 1164.4 | 891.9 | 801.1 | 776.3 | 751.6 | 737.8 | 724.1 | 713.0 | 713.0 |
| 72.5° | 1880.3 | 1417.7 | 957.9 | 754.3 | 690.9 | 679.9 | 674.4 | 658.0 | 647.0 | 633.1 | 627.7 |
| 75° | 1390.3 | 1153.4 | 814.8 | 635.9 | 594.6 | 583.7 | 594.6 | 580.8 | 578.1 | 567.0 | 561.6 |
| 77.5° | 1142.5 | 982.8 | 702.0 | 545.1 | 509.2 | 490.0 | 506.5 | 509.2 | 512.0 | 495.5 | 490.0 |
| 80° | 927.7 | 831.4 | 586.4 | 451.5 | 418.5 | 404.7 | 415.7 | 437.7 | 443.3 | 418.5 | 407.4 |
| 82.5° | 669.0 | 679.9 | 473.5 | 352.4 | 324.8 | 313.8 | 335.9 | 363.4 | 368.9 | 333.1 | 324.8 |
| 85° | 561.6 | 567.0 | 363.4 | 250.5 | 223.0 | 206.5 | 242.2 | 269.8 | 289.1 | 253.3 | 245.0 |
| 87.5° | 234.1 | 333.1 | 209.2 | 140.4 | 123.9 | 107.4 | 129.4 | 143.1 | 173.4 | 159.6 | 156.9 |
| 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)