

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: P456690

Luminaire Tested: **GLAN-SA8A-727-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8A-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31186 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

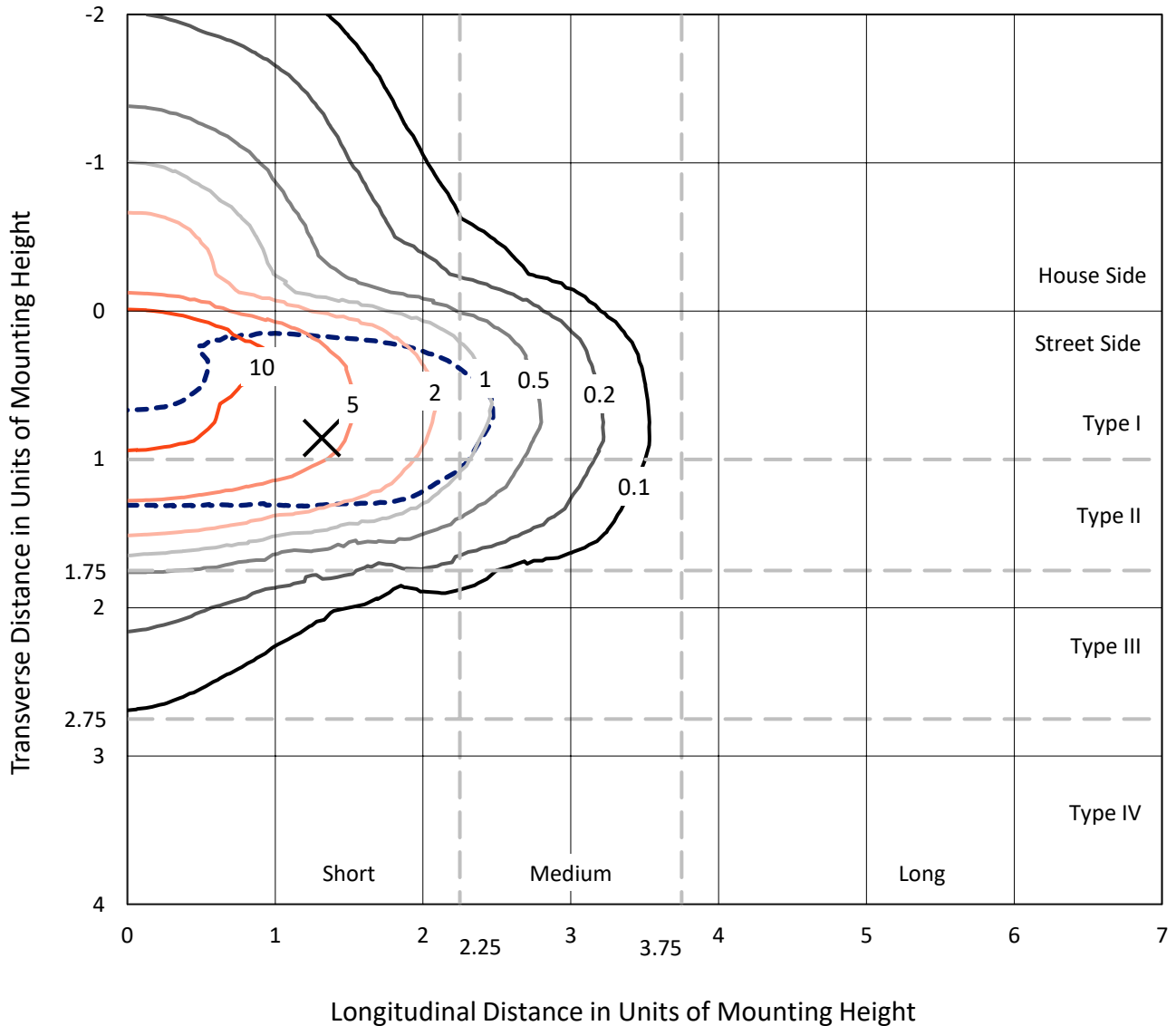
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

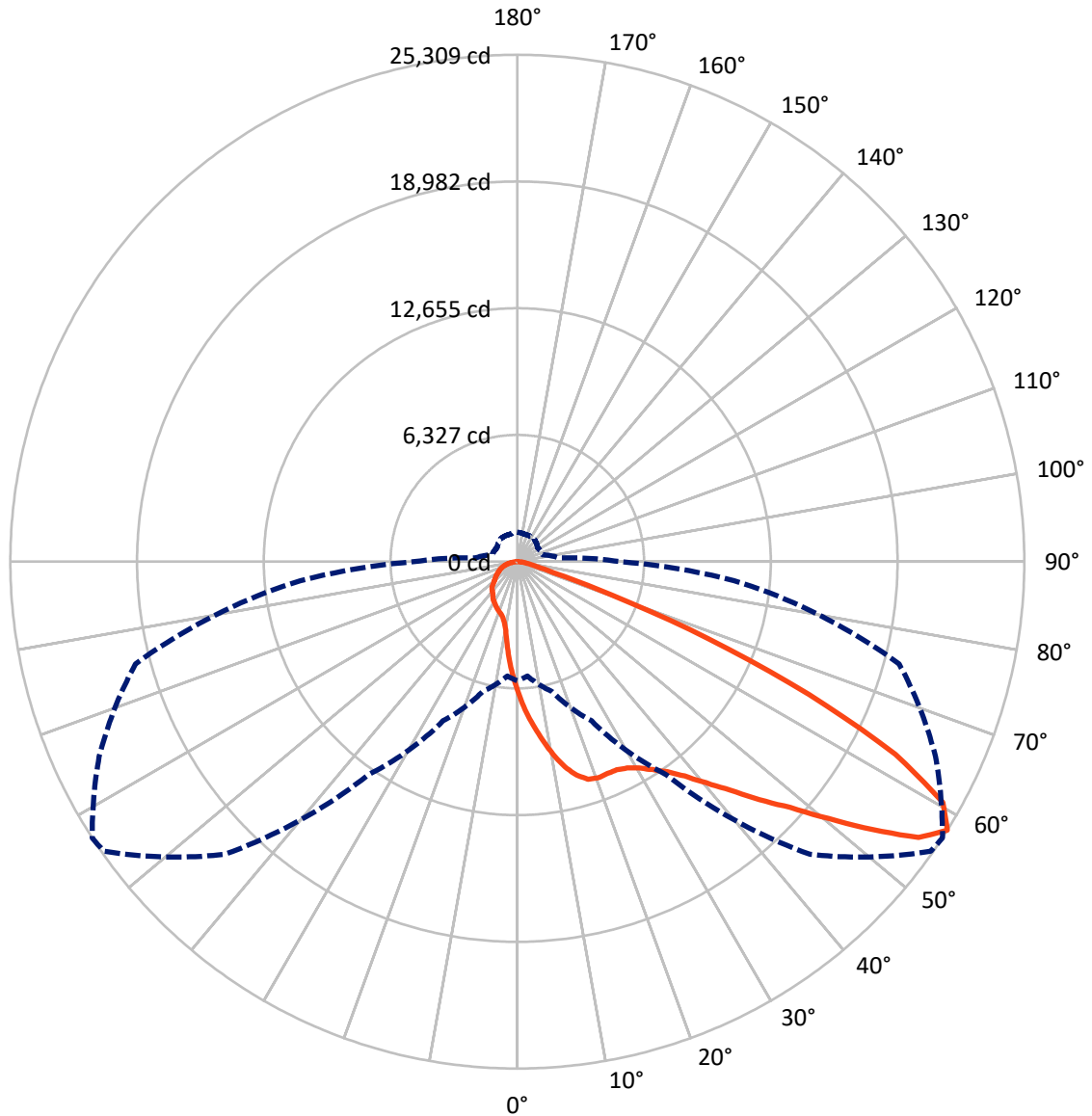
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4742.5 | 0.0 | 4742.5 |
| | % Fixture | 15.2 | 0.0 | 15.2 |
| Street Side | Lumens | 26443.5 | 0.0 | 26443.5 |
| | % Fixture | 84.8 | 0.0 | 84.8 |
| Total | Lumens | 31186.0 | 0.0 | 31186.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 629.7 | 2.0 |
| 10°-20° | 1855.7 | 6.0 |
| 20°-30° | 3081.5 | 9.9 |
| 30°-40° | 4641.6 | 14.9 |
| 40°-50° | 6969.0 | 22.3 |
| 50°-60° | 7811.3 | 25.0 |
| 60°-70° | 4571.6 | 14.7 |
| 70°-80° | 1352.2 | 4.3 |
| 80°-90° | 273.3 | 0.9 |
| 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° | 31186.0 | 100.0 |
| 0°-180° | 31186.0 | 100.0 |

Coefficient of Utilization



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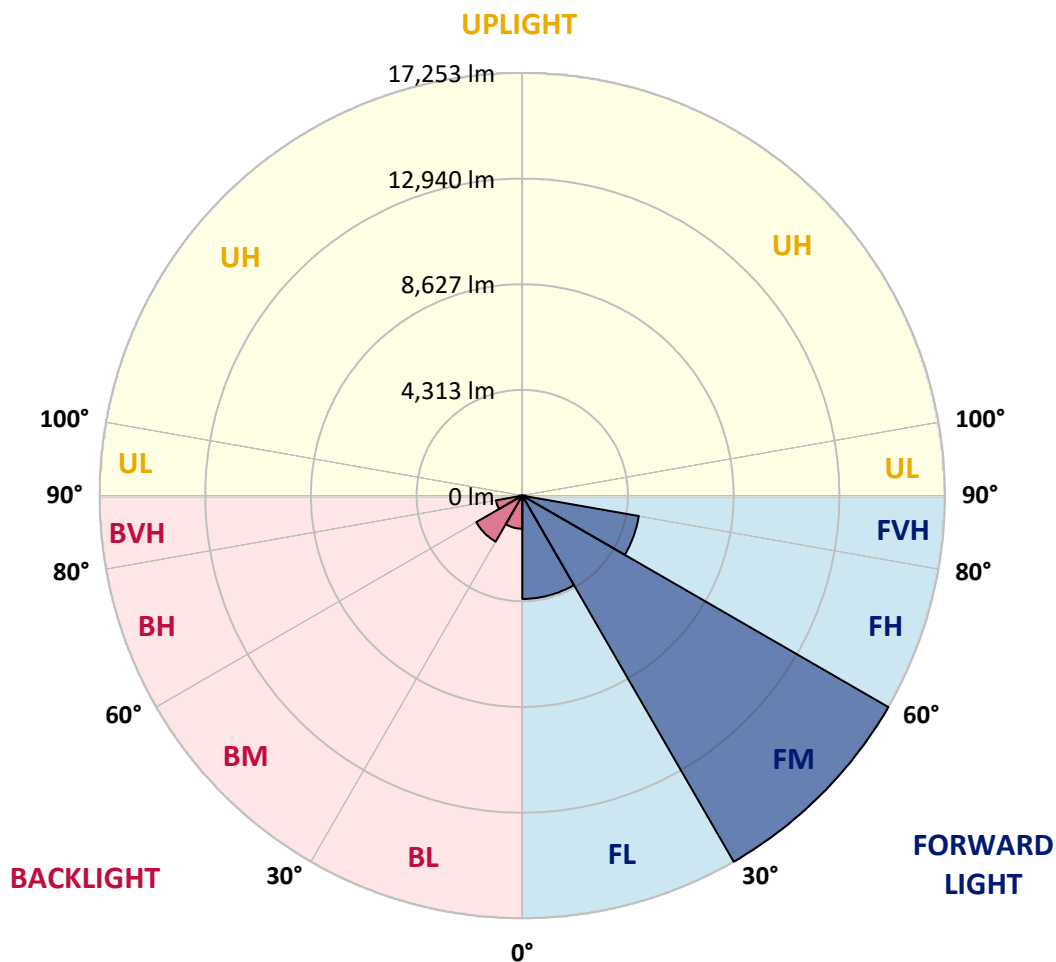
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 4215.6 | 13.5 | | | |
| FM | (30°-60°) | 17253.5 | 55.3 | | | |
| FH | (60°-80°) | 4832.6 | 15.5 | | | G2/5000 |
| FVH | (80°-90°) | 141.8 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 1351.3 | 4.3 | B3/2500 | | |
| BM | (30°-60°) | 2168.5 | 7.0 | B2/2500 | | |
| BH | (60°-80°) | 1091.2 | 3.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 131.5 | 0.4 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6551.8 | 6551.8 | 6551.8 | 6551.8 | 6551.8 | 6551.8 | 6551.8 | 6551.8 | 6551.8 | 6551.8 | 6551.8 |
| 2.5° | 8141.1 | 8052.4 | 7982.4 | 7920.9 | 7840.7 | 7623.9 | 7407.1 | 7403.7 | 7231.2 | 6964.9 | 6691.8 |
| 5° | 9467.5 | 9348.0 | 9363.4 | 9172.2 | 8981.0 | 8666.9 | 8207.7 | 8183.8 | 7816.8 | 7318.3 | 6811.3 |
| 7.5° | 10331.3 | 10333.0 | 10285.2 | 10176.0 | 9969.4 | 9612.6 | 9092.0 | 8974.2 | 8463.8 | 7707.5 | 6947.9 |
| 10° | 10286.9 | 10333.0 | 10413.3 | 10507.2 | 10570.3 | 10394.5 | 9919.9 | 9776.5 | 9112.5 | 8178.7 | 7099.8 |
| 12.5° | 9696.3 | 9768.0 | 9882.4 | 10117.9 | 10498.6 | 10788.8 | 10626.7 | 10510.6 | 9863.6 | 8648.1 | 7267.1 |
| 15° | 9327.6 | 9370.2 | 9433.4 | 9592.2 | 10001.9 | 10696.6 | 11116.6 | 11055.1 | 10572.0 | 9179.0 | 7454.9 |
| 17.5° | 9214.9 | 9257.6 | 9278.0 | 9375.4 | 9667.3 | 10379.1 | 11309.5 | 11418.7 | 11200.2 | 9667.3 | 7644.4 |
| 20° | 9327.6 | 9348.0 | 9348.0 | 9406.1 | 9634.8 | 10193.1 | 11301.0 | 11521.2 | 11715.8 | 10252.8 | 7821.9 |
| 22.5° | 9622.9 | 9631.4 | 9619.5 | 9640.0 | 9810.7 | 10244.3 | 11220.7 | 11493.9 | 12132.3 | 10749.6 | 7960.2 |
| 25° | 10102.6 | 10116.2 | 10037.7 | 9989.9 | 10114.5 | 10469.6 | 11265.1 | 11516.0 | 12458.4 | 11224.1 | 8052.4 |
| 27.5° | 10647.1 | 10664.2 | 10568.6 | 10457.6 | 10515.7 | 10747.9 | 11439.2 | 11664.6 | 12702.5 | 11691.9 | 8110.4 |
| 30° | 11314.6 | 11321.4 | 11161.0 | 11027.8 | 10990.3 | 11162.7 | 11736.3 | 11946.2 | 13006.3 | 12243.3 | 8197.5 |
| 32.5° | 11997.4 | 12048.7 | 11842.1 | 11654.3 | 11591.2 | 11644.1 | 12175.0 | 12378.1 | 13368.2 | 12835.6 | 8337.4 |
| 35° | 12926.1 | 12934.6 | 12687.1 | 12458.4 | 12250.1 | 12318.4 | 12736.6 | 12883.4 | 13868.4 | 13520.2 | 8535.5 |
| 37.5° | 14085.2 | 14163.7 | 13822.3 | 13395.6 | 13139.5 | 13040.5 | 13416.0 | 13576.5 | 14570.0 | 14360.1 | 8834.2 |
| 40° | 15372.4 | 15401.4 | 15109.5 | 14843.2 | 14375.4 | 14088.6 | 14348.1 | 14522.2 | 15435.5 | 15362.1 | 9180.7 |
| 42.5° | 16181.5 | 16244.7 | 16266.9 | 16239.6 | 15887.9 | 15406.5 | 15505.5 | 15587.5 | 16459.8 | 16302.7 | 9535.8 |
| 45° | 16454.7 | 16548.6 | 16866.1 | 17538.7 | 17576.2 | 17101.7 | 16871.2 | 16949.7 | 17576.2 | 17251.9 | 9875.5 |
| 47.5° | 16002.3 | 16162.8 | 16748.3 | 18127.6 | 19160.4 | 19196.3 | 18501.5 | 18329.1 | 18593.7 | 18038.8 | 10121.4 |
| 50° | 14832.9 | 14867.1 | 15763.3 | 17760.6 | 19903.0 | 21198.7 | 20480.0 | 20159.1 | 19559.9 | 18621.0 | 10290.4 |
| 52.5° | 13023.4 | 13062.7 | 13813.8 | 16055.2 | 19445.5 | 22598.5 | 22794.8 | 22221.2 | 20541.4 | 19073.3 | 10401.3 |
| 55° | 9667.3 | 9894.3 | 10720.5 | 12886.8 | 17277.5 | 22467.0 | 24635.1 | 24309.0 | 21727.9 | 19431.8 | 10575.4 |
| 57.5° | 5944.1 | 5735.8 | 6715.7 | 8767.6 | 12994.4 | 20660.9 | 25203.5 | 25309.4 | 23033.8 | 19732.3 | 10867.4 |
| 60° | 2734.8 | 2775.7 | 3180.3 | 4522.1 | 7920.9 | 16162.8 | 23738.8 | 24408.0 | 23755.9 | 19722.0 | 10940.8 |
| 62.5° | 1884.6 | 1847.1 | 1744.6 | 1985.3 | 3612.2 | 10222.1 | 20051.5 | 21185.0 | 22308.3 | 19109.2 | 10648.8 |
| 65° | 1684.9 | 1647.3 | 1449.3 | 1382.7 | 1659.3 | 4455.5 | 14576.9 | 16007.4 | 18783.1 | 17562.6 | 9921.6 |
| 67.5° | 1573.9 | 1522.7 | 1317.9 | 1188.1 | 1184.7 | 1773.7 | 8595.2 | 10317.7 | 13931.6 | 14848.3 | 8596.9 |
| 70° | 1457.9 | 1416.9 | 1213.7 | 1070.3 | 1008.9 | 1114.7 | 3777.8 | 4945.4 | 9045.9 | 10700.1 | 6696.9 |
| 72.5° | 1341.8 | 1294.0 | 1111.3 | 957.7 | 877.4 | 834.8 | 1447.6 | 1882.9 | 5111.0 | 6415.3 | 4105.6 |
| 75° | 1172.8 | 1148.9 | 993.5 | 867.2 | 780.1 | 674.3 | 918.4 | 1048.2 | 2444.6 | 2946.4 | 2060.5 |
| 77.5° | 1026.0 | 1000.4 | 882.6 | 757.9 | 694.8 | 548.0 | 652.1 | 711.9 | 1031.1 | 1195.0 | 930.4 |
| 80° | 751.1 | 776.7 | 744.3 | 669.2 | 619.7 | 430.2 | 438.7 | 488.2 | 612.8 | 677.7 | 568.5 |
| 82.5° | 476.3 | 524.1 | 573.6 | 515.5 | 469.5 | 339.7 | 303.9 | 322.6 | 418.2 | 443.8 | 252.6 |
| 85° | 199.7 | 203.1 | 332.9 | 314.1 | 268.0 | 201.4 | 182.7 | 192.9 | 223.6 | 233.9 | 117.8 |
| 87.5° | 76.8 | 75.1 | 117.8 | 109.3 | 83.6 | 58.0 | 58.0 | 64.9 | 88.8 | 81.9 | 37.6 |
| 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° | 6551.8 | 6551.8 | 6551.8 | 6551.8 | 6551.8 | 6551.8 | 6551.8 | 6551.8 | 6551.8 | 6551.8 | 6551.8 |
| 2.5° | 6574.0 | 6452.8 | 6212.1 | 5913.4 | 5694.9 | 5449.0 | 5232.2 | 5076.9 | 5018.9 | 4991.5 | 4940.3 |
| 5° | 6568.9 | 6329.9 | 5831.4 | 5309.1 | 4889.1 | 4458.9 | 4095.3 | 3859.7 | 3839.3 | 3682.2 | 3666.8 |
| 7.5° | 6570.6 | 6205.3 | 5411.5 | 4643.3 | 4003.1 | 3562.7 | 3262.3 | 3183.7 | 3089.8 | 3065.9 | 3077.9 |
| 10° | 6575.7 | 6046.5 | 4960.8 | 3984.4 | 3364.7 | 3076.2 | 2963.5 | 2932.8 | 2936.2 | 2946.4 | 2948.1 |
| 12.5° | 6582.5 | 5892.9 | 4493.1 | 3484.2 | 3006.2 | 2886.7 | 2874.7 | 2902.1 | 2931.1 | 2953.3 | 2958.4 |
| 15° | 6591.1 | 5717.1 | 4037.3 | 3081.3 | 2826.9 | 2816.7 | 2856.0 | 2902.1 | 2943.0 | 2975.5 | 2980.6 |
| 17.5° | 6580.8 | 5512.2 | 3654.9 | 2833.8 | 2727.9 | 2777.4 | 2842.3 | 2900.4 | 2937.9 | 2968.6 | 2972.0 |
| 20° | 6556.9 | 5283.5 | 3286.2 | 2659.7 | 2666.5 | 2746.7 | 2816.7 | 2871.3 | 2912.3 | 2927.7 | 2939.6 |
| 22.5° | 6464.8 | 5010.3 | 2965.2 | 2524.8 | 2593.1 | 2704.0 | 2787.7 | 2820.1 | 2774.0 | 2741.6 | 2750.1 |
| 25° | 6307.7 | 4655.2 | 2666.5 | 2415.5 | 2526.5 | 2644.3 | 2729.6 | 2651.1 | 2613.6 | 2599.9 | 2606.7 |
| 27.5° | 6111.4 | 4266.0 | 2441.1 | 2301.2 | 2441.1 | 2577.7 | 2553.8 | 2540.2 | 2523.1 | 2500.9 | 2506.0 |
| 30° | 5899.7 | 3885.3 | 2249.9 | 2212.4 | 2349.0 | 2427.5 | 2437.7 | 2459.9 | 2441.1 | 2407.0 | 2420.7 |
| 32.5° | 5703.4 | 3526.9 | 2104.8 | 2137.3 | 2284.1 | 2272.1 | 2349.0 | 2374.6 | 2287.5 | 2173.1 | 2178.3 |
| 35° | 5536.1 | 3194.0 | 1995.6 | 2063.9 | 2173.1 | 2178.3 | 2255.1 | 2166.3 | 2072.4 | 2017.8 | 2021.2 |
| 37.5° | 5409.8 | 2934.5 | 1923.9 | 2000.7 | 2031.4 | 2096.3 | 2055.3 | 2009.2 | 1997.3 | 1959.7 | 1961.4 |
| 40° | 5334.7 | 2707.4 | 1877.8 | 1951.2 | 1946.1 | 1990.5 | 1859.0 | 1905.1 | 1922.2 | 1910.2 | 1911.9 |
| 42.5° | 5259.6 | 2547.0 | 1830.0 | 1882.9 | 1881.2 | 1794.2 | 1765.1 | 1804.4 | 1848.8 | 1853.9 | 1850.5 |
| 45° | 5199.8 | 2422.4 | 1780.5 | 1778.8 | 1812.9 | 1676.4 | 1667.8 | 1691.7 | 1754.9 | 1785.6 | 1783.9 |
| 47.5° | 5133.2 | 2318.2 | 1705.4 | 1657.6 | 1667.8 | 1603.0 | 1589.3 | 1599.5 | 1676.4 | 1725.9 | 1739.5 |
| 50° | 5049.6 | 2214.1 | 1611.5 | 1546.6 | 1503.9 | 1534.7 | 1538.1 | 1539.8 | 1616.6 | 1673.0 | 1684.9 |
| 52.5° | 4983.0 | 2135.6 | 1503.9 | 1456.2 | 1404.9 | 1473.2 | 1498.8 | 1502.2 | 1548.3 | 1594.4 | 1603.0 |
| 55° | 5022.3 | 2091.2 | 1398.1 | 1364.0 | 1317.9 | 1410.1 | 1459.6 | 1466.4 | 1476.6 | 1510.8 | 1515.9 |
| 57.5° | 5140.1 | 2101.4 | 1312.8 | 1268.4 | 1234.2 | 1334.9 | 1418.6 | 1423.7 | 1416.9 | 1457.9 | 1464.7 |
| 60° | 5175.9 | 2096.3 | 1249.6 | 1162.5 | 1142.0 | 1254.7 | 1358.8 | 1369.1 | 1367.4 | 1427.1 | 1439.1 |
| 62.5° | 5025.7 | 2031.4 | 1186.4 | 1073.8 | 1060.1 | 1172.8 | 1275.2 | 1316.2 | 1324.7 | 1410.1 | 1425.4 |
| 65° | 4672.3 | 1898.3 | 1102.8 | 979.9 | 979.9 | 1085.7 | 1195.0 | 1251.3 | 1275.2 | 1389.6 | 1406.6 |
| 67.5° | 4206.3 | 1741.2 | 1017.4 | 899.6 | 896.2 | 1002.1 | 1109.6 | 1167.7 | 1205.2 | 1360.6 | 1370.8 |
| 70° | 3491.0 | 1529.6 | 911.6 | 812.6 | 812.6 | 908.2 | 1005.5 | 1075.5 | 1130.1 | 1305.9 | 1305.9 |
| 72.5° | 2391.6 | 1271.8 | 783.6 | 713.6 | 715.3 | 804.0 | 903.1 | 981.6 | 1046.4 | 1196.7 | 1200.1 |
| 75° | 1512.5 | 993.5 | 643.6 | 607.7 | 614.6 | 698.2 | 800.6 | 882.6 | 1012.3 | 1183.0 | 1188.1 |
| 77.5° | 804.0 | 698.2 | 512.1 | 503.6 | 512.1 | 588.9 | 703.3 | 816.0 | 1015.7 | 1026.0 | 1008.9 |
| 80° | 520.7 | 495.1 | 404.6 | 387.5 | 390.9 | 474.6 | 626.5 | 775.0 | 816.0 | 826.2 | 788.7 |
| 82.5° | 283.4 | 314.1 | 286.8 | 269.7 | 269.7 | 370.4 | 534.3 | 616.3 | 585.5 | 486.5 | 464.3 |
| 85° | 121.2 | 146.8 | 148.5 | 129.7 | 124.6 | 228.8 | 358.5 | 336.3 | 312.4 | 298.7 | 295.3 |
| 87.5° | 34.1 | 47.8 | 47.8 | 35.8 | 27.3 | 63.2 | 71.7 | 20.5 | 0.0 | 1.7 | 3.4 |
| 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)