

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: P268252

Luminaire Tested: **GAN-AF-02-LED-U-5WQ-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-5WQ-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12226.3 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 129
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

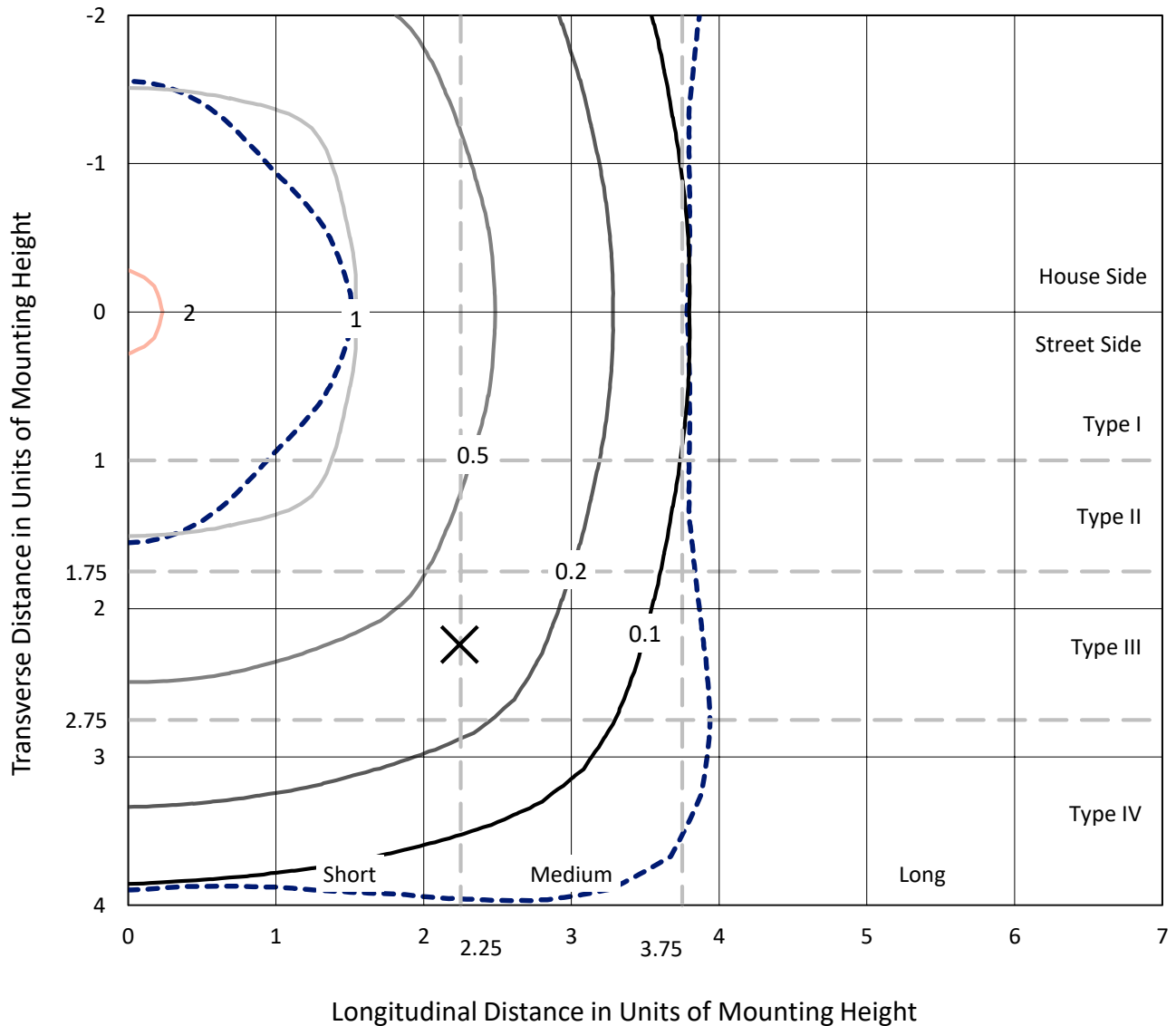


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

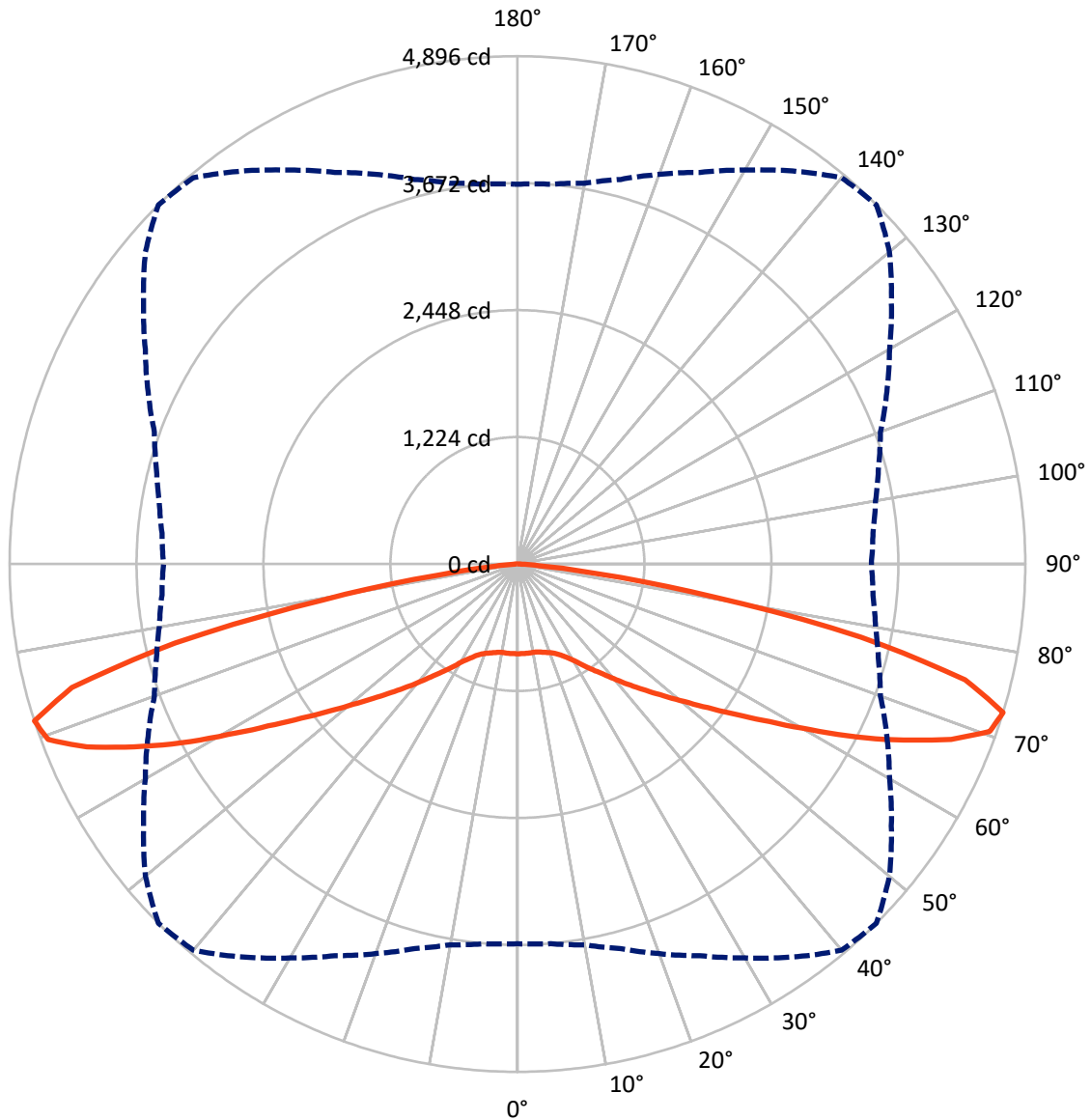


Based on 20 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6113.2 | 0.0 | 6113.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6113.2 | 0.0 | 6113.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 12226.3 | 0.0 | 12226.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 82.7 | 0.7 |
| 10°-20° | 251.1 | 2.1 |
| 20°-30° | 458.9 | 3.8 |
| 30°-40° | 791.1 | 6.5 |
| 40°-50° | 1352.4 | 11.1 |
| 50°-60° | 2192.1 | 17.9 |
| 60°-70° | 3636.7 | 29.7 |
| 70°-80° | 3203.1 | 26.2 |
| 80°-90° | 258.3 | 2.1 |
| 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° | 12226.3 | 100.0 |
| 0°-180° | 12226.3 | 100.0 |



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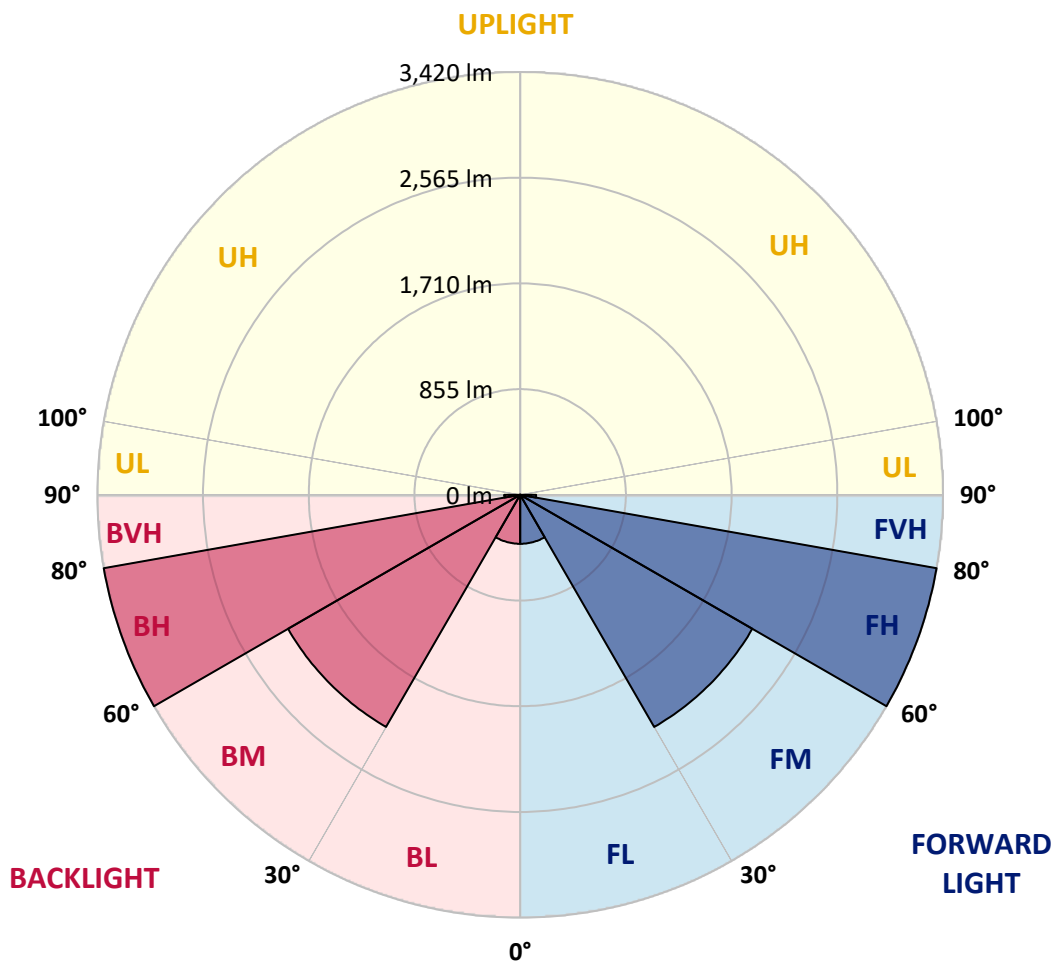
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 396.3 | 3.2 | | | |
| FM | (30°-60°) | 2167.9 | 17.7 | | | |
| FH | (60°-80°) | 3419.9 | 28.0 | | | G2/5000 |
| FVH | (80°-90°) | 129.1 | 1.1 | | | G2/225 |
| BL | (0°-30°) | 396.3 | 3.2 | B1/500 | | |
| BM | (30°-60°) | 2167.9 | 17.7 | B2/2500 | | |
| BH | (60°-80°) | 3419.9 | 28.0 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 129.1 | 1.1 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 865.7 | 865.7 | 865.7 | 865.7 | 865.7 | 865.7 | 865.7 | 865.7 | 865.7 | 865.7 | 865.7 |
| 2.5° | 865.7 | 866.3 | 867.0 | 866.3 | 866.3 | 865.7 | 865.2 | 865.7 | 865.2 | 864.1 | 864.7 |
| 5° | 868.7 | 869.6 | 869.6 | 868.7 | 869.2 | 868.7 | 867.6 | 868.0 | 867.0 | 865.2 | 865.2 |
| 7.5° | 872.0 | 872.6 | 872.6 | 871.4 | 872.0 | 870.8 | 869.6 | 869.2 | 868.0 | 865.7 | 864.1 |
| 10° | 877.0 | 877.6 | 877.0 | 875.8 | 875.8 | 874.2 | 871.4 | 870.3 | 868.0 | 864.7 | 863.0 |
| 12.5° | 882.7 | 883.3 | 882.7 | 881.4 | 881.0 | 878.2 | 875.8 | 874.2 | 872.6 | 869.6 | 867.0 |
| 15° | 890.5 | 891.6 | 890.5 | 888.2 | 886.5 | 884.3 | 883.3 | 883.8 | 884.3 | 882.0 | 879.4 |
| 17.5° | 905.0 | 905.6 | 904.0 | 898.9 | 896.7 | 894.4 | 894.4 | 895.5 | 897.1 | 896.1 | 893.3 |
| 20° | 932.0 | 930.4 | 926.4 | 920.3 | 917.3 | 913.4 | 912.9 | 913.4 | 913.4 | 912.9 | 910.7 |
| 22.5° | 965.6 | 964.5 | 959.5 | 951.7 | 947.7 | 945.5 | 942.1 | 939.3 | 938.6 | 937.0 | 934.7 |
| 25° | 1006.0 | 1005.5 | 999.3 | 992.5 | 989.8 | 987.0 | 984.2 | 980.2 | 976.8 | 973.0 | 970.7 |
| 27.5° | 1057.6 | 1055.4 | 1046.3 | 1043.0 | 1039.1 | 1037.5 | 1033.5 | 1029.0 | 1026.3 | 1021.2 | 1018.4 |
| 30° | 1114.3 | 1114.3 | 1106.9 | 1105.9 | 1105.9 | 1102.0 | 1097.4 | 1089.6 | 1084.6 | 1079.5 | 1077.7 |
| 32.5° | 1170.9 | 1171.4 | 1164.2 | 1166.4 | 1168.1 | 1170.9 | 1172.0 | 1169.1 | 1165.8 | 1165.2 | 1161.9 |
| 35° | 1252.7 | 1250.5 | 1243.3 | 1245.0 | 1244.3 | 1243.8 | 1243.8 | 1249.9 | 1251.1 | 1252.1 | 1245.4 |
| 37.5° | 1354.3 | 1354.3 | 1347.0 | 1347.0 | 1343.5 | 1340.2 | 1335.7 | 1339.6 | 1345.8 | 1347.5 | 1343.1 |
| 40° | 1470.3 | 1474.3 | 1465.2 | 1464.6 | 1465.9 | 1455.2 | 1450.1 | 1456.3 | 1460.3 | 1466.9 | 1461.9 |
| 42.5° | 1607.2 | 1604.4 | 1595.4 | 1594.2 | 1588.1 | 1584.7 | 1580.2 | 1585.2 | 1591.4 | 1595.8 | 1597.5 |
| 45° | 1738.4 | 1736.2 | 1726.1 | 1726.1 | 1719.8 | 1717.0 | 1719.3 | 1727.7 | 1730.6 | 1736.7 | 1742.8 |
| 47.5° | 1867.8 | 1865.2 | 1858.4 | 1861.2 | 1861.6 | 1866.8 | 1874.0 | 1881.9 | 1889.8 | 1898.2 | 1901.0 |
| 50° | 2000.3 | 2000.7 | 1993.5 | 2000.3 | 2008.6 | 2022.7 | 2042.2 | 2055.2 | 2071.4 | 2082.1 | 2085.4 |
| 52.5° | 2120.8 | 2123.1 | 2130.9 | 2146.6 | 2163.4 | 2190.8 | 2224.6 | 2256.0 | 2282.9 | 2300.7 | 2299.8 |
| 55° | 2265.4 | 2268.8 | 2288.0 | 2314.8 | 2342.3 | 2383.8 | 2433.7 | 2489.3 | 2534.1 | 2559.9 | 2543.6 |
| 57.5° | 2450.5 | 2457.9 | 2479.1 | 2515.6 | 2556.4 | 2610.4 | 2678.7 | 2762.3 | 2831.8 | 2866.6 | 2840.3 |
| 60° | 2704.5 | 2709.0 | 2734.8 | 2775.3 | 2824.5 | 2891.3 | 2982.7 | 3094.8 | 3192.9 | 3239.0 | 3208.7 |
| 62.5° | 3039.3 | 3047.7 | 3068.5 | 3109.5 | 3159.9 | 3235.5 | 3347.2 | 3487.4 | 3609.6 | 3673.4 | 3605.1 |
| 65° | 3439.2 | 3466.1 | 3483.4 | 3524.9 | 3572.0 | 3652.1 | 3768.8 | 3919.1 | 4050.4 | 4092.4 | 4013.4 |
| 67.5° | 3835.0 | 3858.6 | 3888.9 | 3936.6 | 3984.3 | 4074.5 | 4182.7 | 4328.6 | 4472.7 | 4510.7 | 4388.0 |
| 70° | 4008.2 | 4021.8 | 4068.9 | 4133.9 | 4225.3 | 4331.8 | 4456.9 | 4620.6 | 4798.9 | 4830.4 | 4674.5 |
| 72.5° | 3661.2 | 3674.6 | 3727.3 | 3837.9 | 3997.1 | 4166.5 | 4384.5 | 4625.2 | 4860.6 | 4896.0 | 4681.2 |
| 75° | 2769.0 | 2747.1 | 2825.1 | 2971.5 | 3186.3 | 3422.4 | 3727.3 | 4072.2 | 4412.7 | 4456.9 | 4200.7 |
| 77.5° | 1431.1 | 1428.2 | 1487.1 | 1668.8 | 1925.1 | 2193.8 | 2529.5 | 2919.3 | 3252.5 | 3387.0 | 3178.5 |
| 80° | 403.2 | 407.7 | 435.7 | 526.0 | 675.7 | 869.6 | 1132.1 | 1497.2 | 1769.8 | 1908.8 | 1792.2 |
| 82.5° | 158.1 | 170.5 | 181.1 | 197.9 | 217.6 | 246.1 | 328.6 | 488.9 | 656.1 | 784.0 | 642.1 |
| 85° | 56.7 | 60.5 | 85.8 | 101.5 | 103.1 | 108.8 | 124.0 | 144.6 | 174.5 | 208.0 | 171.0 |
| 87.5° | 21.3 | 23.5 | 27.5 | 45.5 | 44.8 | 41.0 | 49.9 | 52.1 | 39.3 | 35.9 | 44.2 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 865.7 | 865.7 | 865.7 | 865.7 | 865.7 | 865.7 | 865.7 | 865.7 |
| 2.5° | 863.6 | 864.1 | 864.1 | 864.7 | 865.2 | 865.2 | 866.3 | 866.3 |
| 5° | 864.1 | 864.1 | 863.0 | 863.6 | 863.0 | 863.0 | 863.6 | 863.6 |
| 7.5° | 863.0 | 862.5 | 861.4 | 860.8 | 859.7 | 859.7 | 859.7 | 859.7 |
| 10° | 861.4 | 860.8 | 859.7 | 859.0 | 858.5 | 858.5 | 858.5 | 858.5 |
| 12.5° | 865.7 | 864.1 | 863.0 | 862.5 | 862.5 | 862.5 | 862.5 | 862.5 |
| 15° | 877.6 | 873.6 | 870.8 | 870.8 | 871.4 | 872.6 | 872.6 | 873.6 |
| 17.5° | 892.1 | 887.6 | 884.9 | 882.7 | 883.8 | 885.4 | 886.5 | 887.6 |
| 20° | 909.5 | 907.3 | 903.3 | 901.1 | 901.1 | 903.3 | 904.6 | 905.0 |
| 22.5° | 933.7 | 932.0 | 930.4 | 927.5 | 927.5 | 928.6 | 930.9 | 930.9 |
| 25° | 969.5 | 968.5 | 967.4 | 965.0 | 964.5 | 964.5 | 965.6 | 966.8 |
| 27.5° | 1014.5 | 1014.9 | 1013.8 | 1013.3 | 1011.6 | 1011.0 | 1012.7 | 1012.2 |
| 30° | 1074.5 | 1077.2 | 1080.0 | 1077.7 | 1075.0 | 1073.3 | 1071.6 | 1069.3 |
| 32.5° | 1155.7 | 1152.3 | 1150.1 | 1146.1 | 1141.1 | 1136.6 | 1133.3 | 1129.3 |
| 35° | 1232.6 | 1226.9 | 1224.7 | 1228.1 | 1227.5 | 1224.7 | 1220.7 | 1217.5 |
| 37.5° | 1326.7 | 1325.5 | 1326.7 | 1332.9 | 1331.7 | 1334.6 | 1326.7 | 1326.2 |
| 40° | 1445.6 | 1446.8 | 1454.6 | 1461.9 | 1465.9 | 1469.7 | 1465.2 | 1460.7 |
| 42.5° | 1583.6 | 1583.1 | 1585.8 | 1595.8 | 1602.7 | 1607.2 | 1597.5 | 1596.5 |
| 45° | 1729.3 | 1725.5 | 1727.7 | 1736.2 | 1742.8 | 1747.9 | 1737.2 | 1737.2 |
| 47.5° | 1889.8 | 1883.0 | 1875.8 | 1885.3 | 1889.1 | 1892.5 | 1884.1 | 1881.3 |
| 50° | 2068.6 | 2054.7 | 2039.0 | 2042.8 | 2042.8 | 2041.7 | 2031.1 | 2030.4 |
| 52.5° | 2273.9 | 2248.1 | 2219.5 | 2208.8 | 2202.6 | 2195.9 | 2177.4 | 2168.5 |
| 55° | 2510.0 | 2471.2 | 2426.4 | 2399.0 | 2384.3 | 2365.9 | 2335.1 | 2326.6 |
| 57.5° | 2785.9 | 2725.3 | 2647.9 | 2614.2 | 2581.6 | 2551.5 | 2517.2 | 2507.7 |
| 60° | 3112.7 | 3023.7 | 2921.0 | 2858.8 | 2823.5 | 2794.3 | 2759.0 | 2757.3 |
| 62.5° | 3477.2 | 3336.6 | 3220.5 | 3164.4 | 3138.6 | 3112.7 | 3079.1 | 3083.6 |
| 65° | 3847.9 | 3700.9 | 3592.2 | 3546.8 | 3522.8 | 3501.4 | 3467.7 | 3472.8 |
| 67.5° | 4213.5 | 4078.5 | 3959.0 | 3912.4 | 3885.4 | 3858.6 | 3828.2 | 3833.3 |
| 70° | 4476.0 | 4308.4 | 4173.7 | 4070.6 | 4006.1 | 3933.1 | 3886.1 | 3874.3 |
| 72.5° | 4400.8 | 4142.4 | 3928.6 | 3724.1 | 3604.0 | 3506.4 | 3440.2 | 3411.7 |
| 75° | 3808.6 | 3455.4 | 3180.5 | 2929.5 | 2788.1 | 2673.1 | 2589.5 | 2537.4 |
| 77.5° | 2828.5 | 2431.4 | 2106.7 | 1817.5 | 1588.7 | 1435.0 | 1326.7 | 1256.6 |
| 80° | 1548.3 | 1177.6 | 860.8 | 605.1 | 444.8 | 369.6 | 326.4 | 305.7 |
| 82.5° | 482.3 | 311.3 | 229.3 | 197.9 | 184.0 | 176.1 | 163.2 | 142.4 |
| 85° | 153.6 | 134.6 | 125.0 | 119.5 | 113.8 | 99.3 | 68.5 | 62.3 |
| 87.5° | 59.5 | 61.2 | 60.5 | 57.2 | 58.3 | 42.1 | 33.6 | 29.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)