

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: P268789

Luminaire Tested: **GAN-AF-08-LED-U-T3R-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42377.4 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 445
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

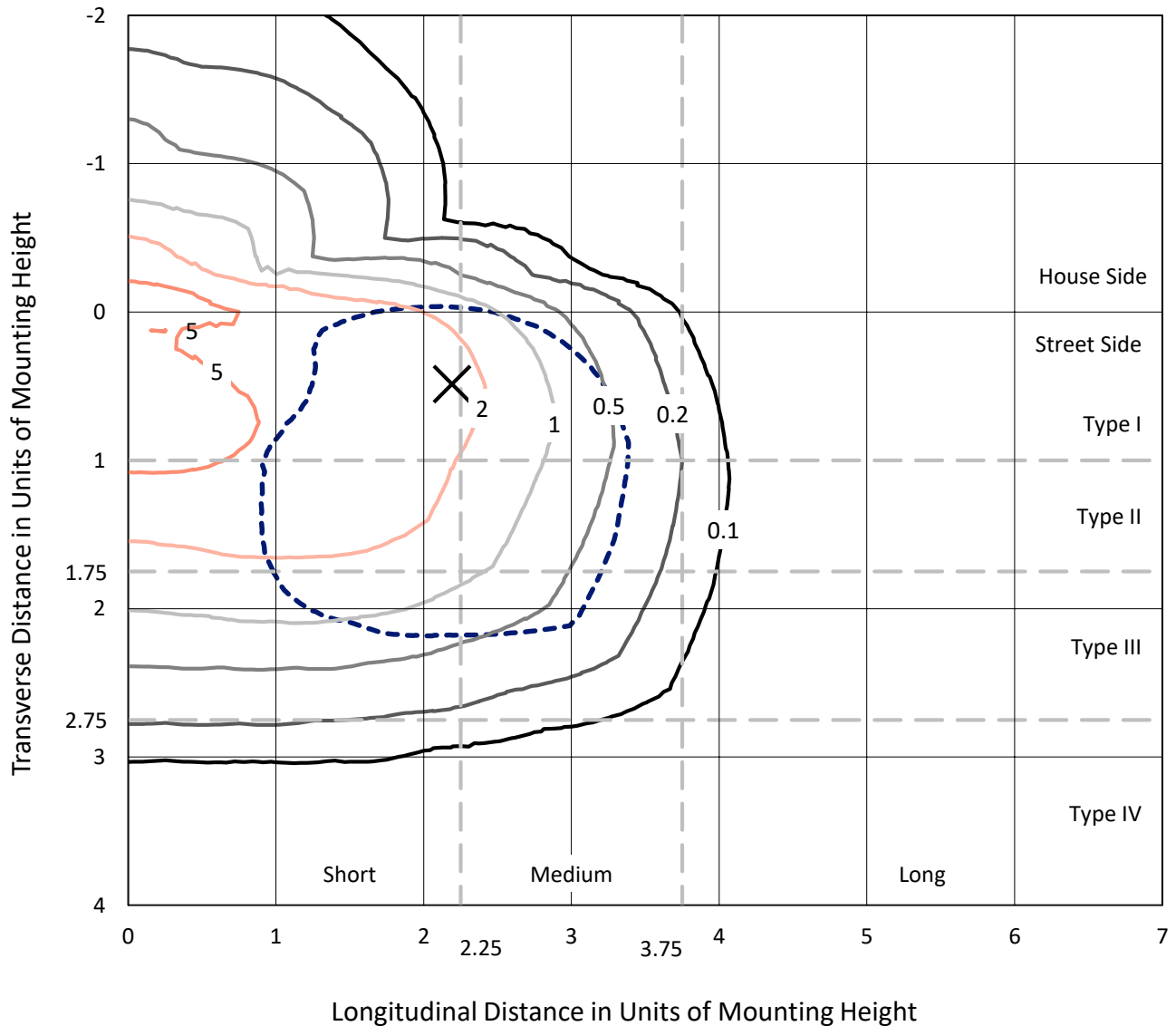


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

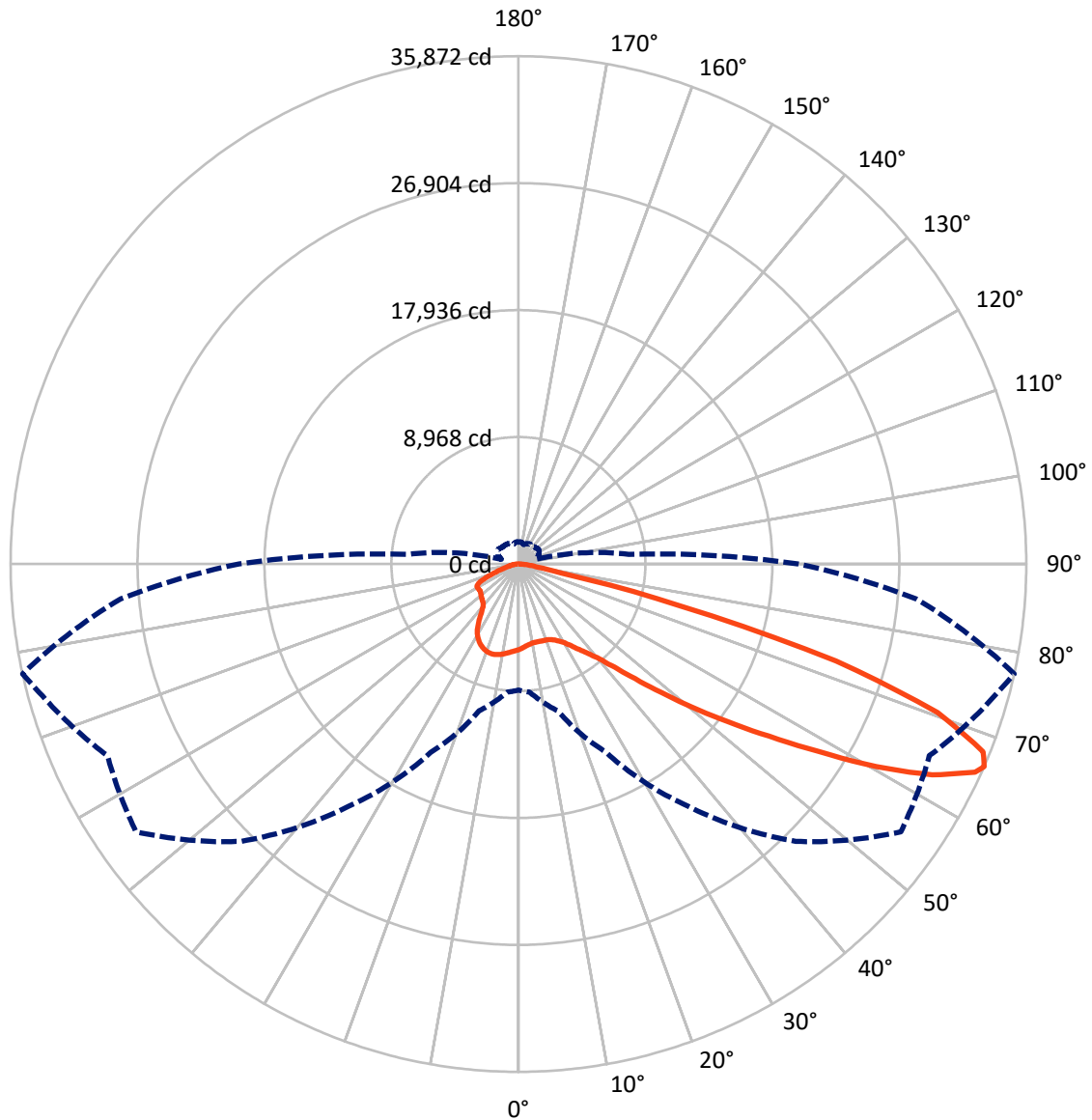


Based on 30 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7239.9 | 0.0 | 7239.9 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 35137.5 | 0.0 | 35137.5 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 42377.4 | 0.0 | 42377.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 539.5 | 1.3 |
| 10°-20° | 1522.1 | 3.6 |
| 20°-30° | 2597.7 | 6.1 |
| 30°-40° | 4158.5 | 9.8 |
| 40°-50° | 6424.5 | 15.2 |
| 50°-60° | 9112.1 | 21.5 |
| 60°-70° | 12189.5 | 28.8 |
| 70°-80° | 5293.7 | 12.5 |
| 80°-90° | 539.8 | 1.3 |
| 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° | 42377.4 | 100.0 |
| 0°-180° | 42377.4 | 100.0 |



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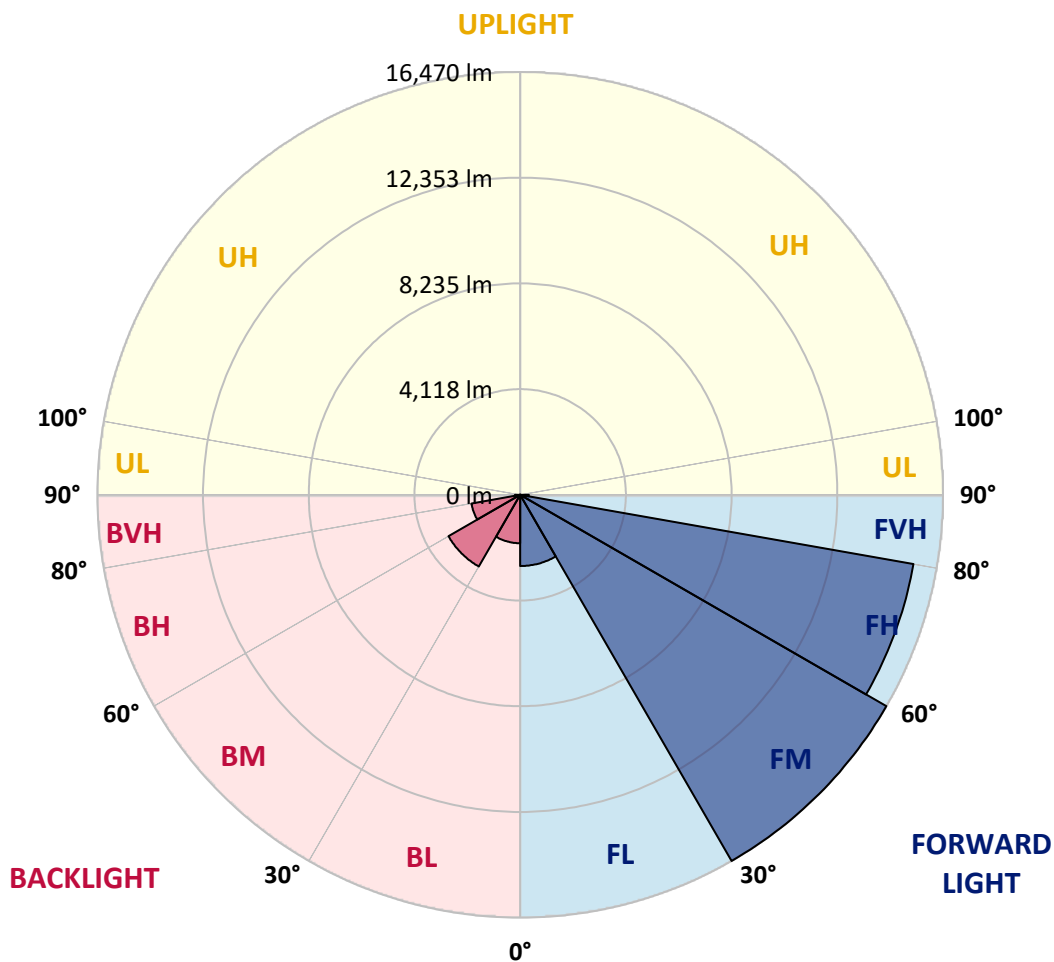
CATALOG NUMBER: GAN-AF-08-LED-U-T3R-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2773.8 | 6.5 | | | |
| FM | (30°-60°) | 16470.1 | 38.9 | | | |
| FH | (60°-80°) | 15555.1 | 36.7 | | | G5 |
| FVH | (80°-90°) | 338.5 | 0.8 | | | G3/500 |
| BL | (0°-30°) | 1885.6 | 4.4 | B3/2500 | | |
| BM | (30°-60°) | 3225.0 | 7.6 | B3/5000 | | |
| BH | (60°-80°) | 1928.1 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 201.3 | 0.5 | | | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77.5° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6038.9 | 6038.9 | 6038.9 | 6038.9 | 6038.9 | 6038.9 | 6038.9 | 6038.9 | 6038.9 | 6038.9 | 6038.9 |
| 2.5° | 5342.2 | 5378.2 | 5408.2 | 5436.4 | 5492.3 | 5584.5 | 5690.7 | 5776.7 | 5900.8 | 5924.9 | 5990.9 |
| 5° | 4851.7 | 4851.7 | 4875.6 | 4917.7 | 4993.8 | 5131.9 | 5276.1 | 5468.3 | 5738.6 | 5802.7 | 5978.8 |
| 7.5° | 4613.3 | 4615.3 | 4629.3 | 4665.3 | 4731.5 | 4857.7 | 5015.7 | 5242.1 | 5608.5 | 5714.6 | 6015.0 |
| 10° | 4701.4 | 4681.3 | 4651.3 | 4633.4 | 4643.3 | 4717.4 | 4867.6 | 5119.9 | 5528.3 | 5664.5 | 6095.1 |
| 12.5° | 5194.0 | 5155.9 | 5051.9 | 4913.6 | 4781.5 | 4727.5 | 4815.5 | 5061.9 | 5494.4 | 5652.6 | 6201.2 |
| 15° | 5998.9 | 5982.9 | 5788.7 | 5502.4 | 5182.1 | 4913.6 | 4853.6 | 5039.9 | 5498.3 | 5666.6 | 6327.3 |
| 17.5° | 7008.0 | 6986.1 | 6729.8 | 6313.3 | 5790.7 | 5268.1 | 4987.7 | 5057.8 | 5512.4 | 5690.7 | 6449.4 |
| 20° | 8027.3 | 7959.3 | 7682.8 | 7186.4 | 6515.5 | 5750.7 | 5210.0 | 5103.9 | 5530.3 | 5716.6 | 6577.6 |
| 22.5° | 8788.2 | 8732.2 | 8483.9 | 8001.3 | 7228.3 | 6309.2 | 5508.3 | 5183.9 | 5588.4 | 5792.7 | 6735.9 |
| 25° | 9456.9 | 9460.9 | 9214.6 | 8748.1 | 7949.2 | 6901.9 | 5892.8 | 5398.3 | 5736.7 | 5948.8 | 6952.1 |
| 27.5° | 10283.8 | 10235.8 | 10005.6 | 9543.1 | 8662.0 | 7500.7 | 6357.3 | 5692.6 | 5956.9 | 6171.1 | 7236.3 |
| 30° | 11273.0 | 11239.1 | 10972.6 | 10448.0 | 9453.0 | 8143.5 | 6887.9 | 6035.0 | 6241.2 | 6463.5 | 7608.9 |
| 32.5° | 12436.3 | 12420.3 | 12144.0 | 11469.3 | 10366.0 | 8900.2 | 7510.6 | 6487.5 | 6665.8 | 6896.0 | 8143.5 |
| 35° | 13802.0 | 13804.0 | 13477.6 | 12666.6 | 11365.1 | 9781.4 | 8217.5 | 7070.2 | 7182.3 | 7422.5 | 8780.2 |
| 37.5° | 14642.9 | 14745.0 | 14622.9 | 13796.0 | 12496.4 | 10766.5 | 9134.5 | 7843.1 | 7771.0 | 8013.3 | 9462.9 |
| 40° | 14823.1 | 14947.3 | 15333.8 | 14913.2 | 13761.9 | 11851.7 | 9947.6 | 8585.9 | 8495.8 | 8792.3 | 10341.9 |
| 42.5° | 14570.9 | 14743.1 | 15560.0 | 15856.3 | 15105.4 | 13189.3 | 11040.8 | 9689.2 | 9575.0 | 9973.5 | 11435.2 |
| 45° | 14420.8 | 14548.8 | 15494.0 | 16346.8 | 16270.8 | 14701.0 | 12432.5 | 11074.8 | 11032.8 | 11555.3 | 12696.6 |
| 47.5° | 14160.4 | 14276.6 | 15185.6 | 16461.0 | 16955.6 | 16086.6 | 14104.3 | 12768.8 | 12850.9 | 13535.7 | 14120.4 |
| 50° | 14300.6 | 14348.5 | 14841.2 | 16170.7 | 17153.9 | 17101.8 | 15972.5 | 14731.0 | 15011.3 | 15866.4 | 15732.1 |
| 52.5° | 14280.5 | 14404.6 | 14801.2 | 15694.2 | 17179.8 | 17728.5 | 17812.6 | 16919.5 | 17510.2 | 18491.4 | 17520.3 |
| 55° | 11545.3 | 11773.6 | 14330.7 | 15574.0 | 17272.0 | 18343.2 | 19450.6 | 19226.2 | 20327.4 | 21470.7 | 19538.7 |
| 57.5° | 11024.8 | 11168.9 | 12586.5 | 15826.2 | 17760.5 | 19516.5 | 21272.7 | 21765.2 | 23607.3 | 24934.9 | 21997.4 |
| 60° | 10922.6 | 11100.9 | 12568.5 | 16134.6 | 18751.7 | 21428.8 | 23973.7 | 24838.8 | 27597.9 | 29051.5 | 24848.7 |
| 62.5° | 10604.2 | 10796.5 | 12450.4 | 16094.7 | 20159.4 | 24073.9 | 27431.7 | 28106.4 | 31382.3 | 32796.0 | 27233.5 |
| 65° | 9595.1 | 9775.3 | 11487.3 | 15447.9 | 21108.5 | 26897.1 | 31524.5 | 31101.9 | 34369.7 | 35432.9 | 28422.9 |
| 66° | 8904.3 | 9080.4 | 10728.4 | 14687.0 | 20888.2 | 27698.0 | 32974.2 | 32029.1 | 35038.5 | 35871.5 | 28190.6 |
| 67.5° | 7640.9 | 7779.1 | 9254.7 | 12983.1 | 19716.8 | 27922.2 | 34193.5 | 32725.9 | 35108.5 | 35402.9 | 26863.1 |
| 70° | 4827.6 | 4867.6 | 6015.0 | 8962.4 | 14925.2 | 24216.0 | 32337.4 | 30995.8 | 32213.3 | 31416.3 | 22520.1 |
| 72.5° | 2094.4 | 2080.5 | 2887.3 | 4559.3 | 8449.7 | 16248.8 | 26158.3 | 25575.6 | 25269.2 | 23451.2 | 15764.3 |
| 75° | 1165.3 | 1181.5 | 1499.7 | 2116.4 | 3434.0 | 7981.3 | 17111.9 | 16374.9 | 13826.1 | 11797.6 | 7148.3 |
| 77.5° | 935.0 | 957.1 | 1243.4 | 1501.7 | 1541.9 | 2783.2 | 8007.2 | 6515.5 | 3922.4 | 3147.7 | 1986.3 |
| 80° | 738.9 | 778.9 | 1085.2 | 1169.4 | 1039.2 | 1147.3 | 2586.9 | 2068.3 | 1551.8 | 1423.6 | 1029.2 |
| 82.5° | 584.6 | 612.7 | 931.1 | 885.0 | 726.9 | 772.9 | 1239.4 | 1207.4 | 1009.2 | 919.1 | 594.7 |
| 85° | 420.4 | 472.6 | 764.8 | 666.8 | 476.6 | 520.6 | 822.9 | 788.9 | 578.7 | 472.6 | 262.3 |
| 87.5° | 172.1 | 224.2 | 540.6 | 442.5 | 266.3 | 242.4 | 410.4 | 386.5 | 274.3 | 200.2 | 130.2 |
| 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° | 6038.9 | 6038.9 | 6038.9 | 6038.9 | 6038.9 | 6038.9 | 6038.9 | 6038.9 | 6038.9 | 6038.9 | 6038.9 |
| 2.5° | 6032.9 | 6081.0 | 6143.1 | 6181.1 | 6201.2 | 6215.3 | 6237.2 | 6235.2 | 6241.2 | 6243.2 | 6251.2 |
| 5° | 6073.0 | 6153.1 | 6243.2 | 6267.2 | 6267.2 | 6245.2 | 6223.2 | 6187.2 | 6173.2 | 6169.1 | 6173.2 |
| 7.5° | 6177.1 | 6265.3 | 6343.3 | 6315.4 | 6255.3 | 6167.1 | 6053.0 | 5952.9 | 5898.8 | 5880.8 | 5876.8 |
| 10° | 6309.2 | 6415.4 | 6447.5 | 6341.3 | 6165.2 | 5952.9 | 5726.6 | 5562.5 | 5468.3 | 5442.3 | 5434.2 |
| 12.5° | 6469.5 | 6569.7 | 6525.6 | 6301.3 | 5974.8 | 5632.6 | 5320.1 | 5057.8 | 4861.6 | 4799.6 | 4795.5 |
| 15° | 6645.8 | 6723.8 | 6569.7 | 6177.1 | 5690.7 | 5185.9 | 4629.3 | 4176.8 | 3932.5 | 3854.4 | 3848.5 |
| 17.5° | 6810.0 | 6849.9 | 6543.6 | 5961.0 | 5272.2 | 4455.1 | 3716.3 | 3367.8 | 3283.8 | 3303.8 | 3307.7 |
| 20° | 6950.0 | 6950.0 | 6455.5 | 5650.5 | 4613.3 | 3492.0 | 3025.5 | 3019.6 | 3079.6 | 3139.7 | 3151.7 |
| 22.5° | 7104.2 | 7012.1 | 6301.3 | 5212.1 | 3680.3 | 2857.2 | 2789.2 | 2845.3 | 2913.4 | 2979.5 | 2989.5 |
| 25° | 7294.4 | 7062.1 | 6087.1 | 4547.3 | 2893.4 | 2595.1 | 2621.1 | 2667.1 | 2701.2 | 2743.2 | 2749.3 |
| 27.5° | 7506.6 | 7126.3 | 5804.7 | 3632.1 | 2510.9 | 2430.9 | 2450.8 | 2466.8 | 2462.9 | 2478.9 | 2482.8 |
| 30° | 7760.9 | 7200.4 | 5418.2 | 2839.4 | 2352.8 | 2290.7 | 2254.6 | 2240.6 | 2240.6 | 2266.7 | 2276.7 |
| 32.5° | 8101.4 | 7310.4 | 4863.7 | 2432.8 | 2276.7 | 2190.5 | 2074.4 | 2022.4 | 2042.3 | 2130.5 | 2150.5 |
| 35° | 8475.8 | 7428.7 | 4112.8 | 2294.6 | 2260.7 | 2144.4 | 1964.2 | 1868.1 | 1870.1 | 1952.2 | 1978.2 |
| 37.5° | 8884.2 | 7578.8 | 3289.9 | 2268.6 | 2296.6 | 2146.5 | 1906.3 | 1774.1 | 1720.0 | 1720.0 | 1730.0 |
| 40° | 9407.0 | 7732.9 | 2663.0 | 2286.6 | 2372.8 | 2170.6 | 1876.2 | 1700.0 | 1547.8 | 1551.8 | 1559.7 |
| 42.5° | 10087.6 | 7865.1 | 2326.7 | 2324.8 | 2464.9 | 2202.6 | 1874.1 | 1601.9 | 1469.6 | 1559.7 | 1641.9 |
| 45° | 10844.6 | 7931.1 | 2178.5 | 2358.7 | 2538.9 | 2222.5 | 1842.2 | 1585.9 | 1479.7 | 1748.0 | 1904.1 |
| 47.5° | 11715.5 | 7893.1 | 2096.5 | 2370.7 | 2556.9 | 2222.5 | 1806.1 | 1623.9 | 1549.8 | 2024.3 | 2206.5 |
| 50° | 12670.7 | 7783.0 | 2016.3 | 2346.7 | 2550.9 | 2218.5 | 1840.1 | 1662.0 | 1575.8 | 2072.4 | 2198.5 |
| 52.5° | 13794.0 | 7690.8 | 1932.3 | 2294.6 | 2508.8 | 2196.5 | 1880.2 | 1646.0 | 1493.7 | 1884.1 | 1972.3 |
| 55° | 15075.4 | 7716.9 | 1838.1 | 2220.6 | 2442.9 | 2154.4 | 1866.1 | 1581.8 | 1407.6 | 1659.9 | 1714.0 |
| 57.5° | 16713.3 | 8027.3 | 1726.1 | 2126.5 | 2352.8 | 2084.3 | 1816.2 | 1551.8 | 1381.7 | 1505.7 | 1537.8 |
| 60° | 18541.5 | 8567.9 | 1585.9 | 2032.3 | 2240.6 | 1972.3 | 1778.0 | 1565.8 | 1393.6 | 1493.7 | 1509.7 |
| 62.5° | 19882.9 | 8882.4 | 1465.7 | 1894.2 | 2088.4 | 1848.2 | 1730.0 | 1583.8 | 1425.6 | 1535.8 | 1531.8 |
| 65° | 20247.3 | 8365.6 | 1315.5 | 1692.0 | 1882.2 | 1718.0 | 1669.9 | 1603.8 | 1439.7 | 1569.8 | 1551.8 |
| 66° | 19736.8 | 7809.1 | 1249.5 | 1597.8 | 1778.0 | 1653.9 | 1639.9 | 1601.9 | 1433.7 | 1573.8 | 1543.7 |
| 67.5° | 18497.4 | 6667.7 | 1135.3 | 1459.7 | 1611.9 | 1557.8 | 1591.8 | 1583.8 | 1417.6 | 1569.8 | 1527.7 |
| 70° | 15085.4 | 4549.2 | 971.1 | 1215.3 | 1341.6 | 1371.6 | 1499.7 | 1519.8 | 1365.6 | 1499.7 | 1407.6 |
| 72.5° | 10540.3 | 2771.2 | 859.0 | 943.1 | 1085.2 | 1169.4 | 1373.6 | 1431.7 | 1295.4 | 1309.5 | 1221.4 |
| 75° | 5093.8 | 1471.8 | 778.9 | 730.9 | 843.0 | 977.1 | 1221.4 | 1311.5 | 1185.4 | 1095.3 | 1063.2 |
| 77.5° | 1587.8 | 899.1 | 660.8 | 588.7 | 660.8 | 788.9 | 1021.2 | 1149.3 | 1055.1 | 917.1 | 905.0 |
| 80° | 853.0 | 660.8 | 508.6 | 472.6 | 522.6 | 618.8 | 802.9 | 959.1 | 907.1 | 822.9 | 734.9 |
| 82.5° | 562.7 | 428.5 | 376.4 | 366.4 | 398.5 | 472.6 | 596.7 | 794.9 | 794.9 | 704.8 | 512.7 |
| 85° | 290.3 | 262.3 | 258.4 | 258.4 | 278.4 | 314.3 | 406.5 | 612.7 | 652.8 | 372.4 | 308.4 |
| 87.5° | 144.2 | 150.1 | 140.1 | 146.2 | 156.1 | 154.1 | 194.3 | 308.4 | 368.5 | 226.3 | 188.3 |
| 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)