

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: P194608

Luminaire Tested: **GAN-AF-10-LED-U-SL4-7060-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194608
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-SL4-7060-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 1200mA 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: 61414 lumens
Efficiency: N/A
Efficacy: 96.0 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): 640
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

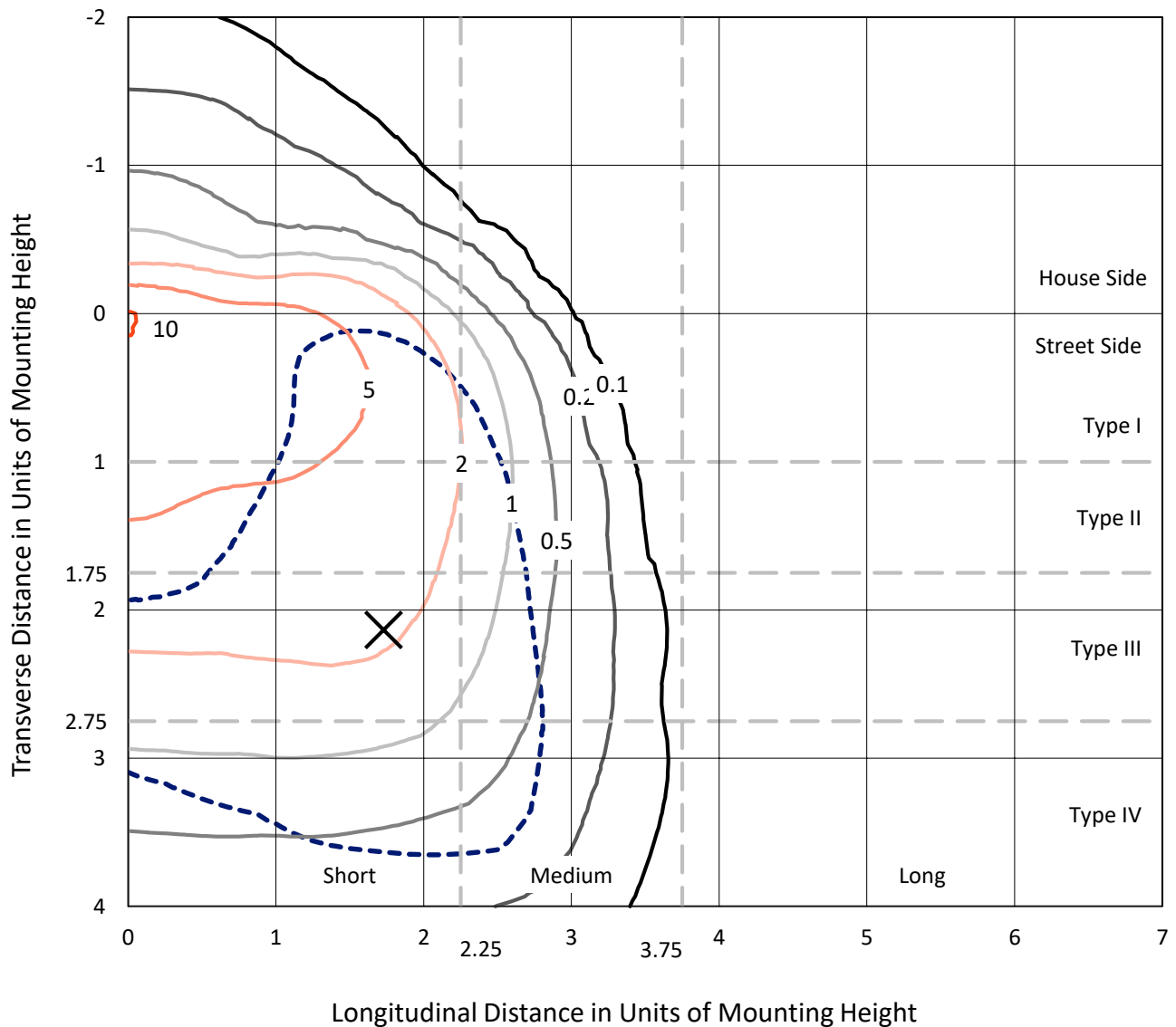


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

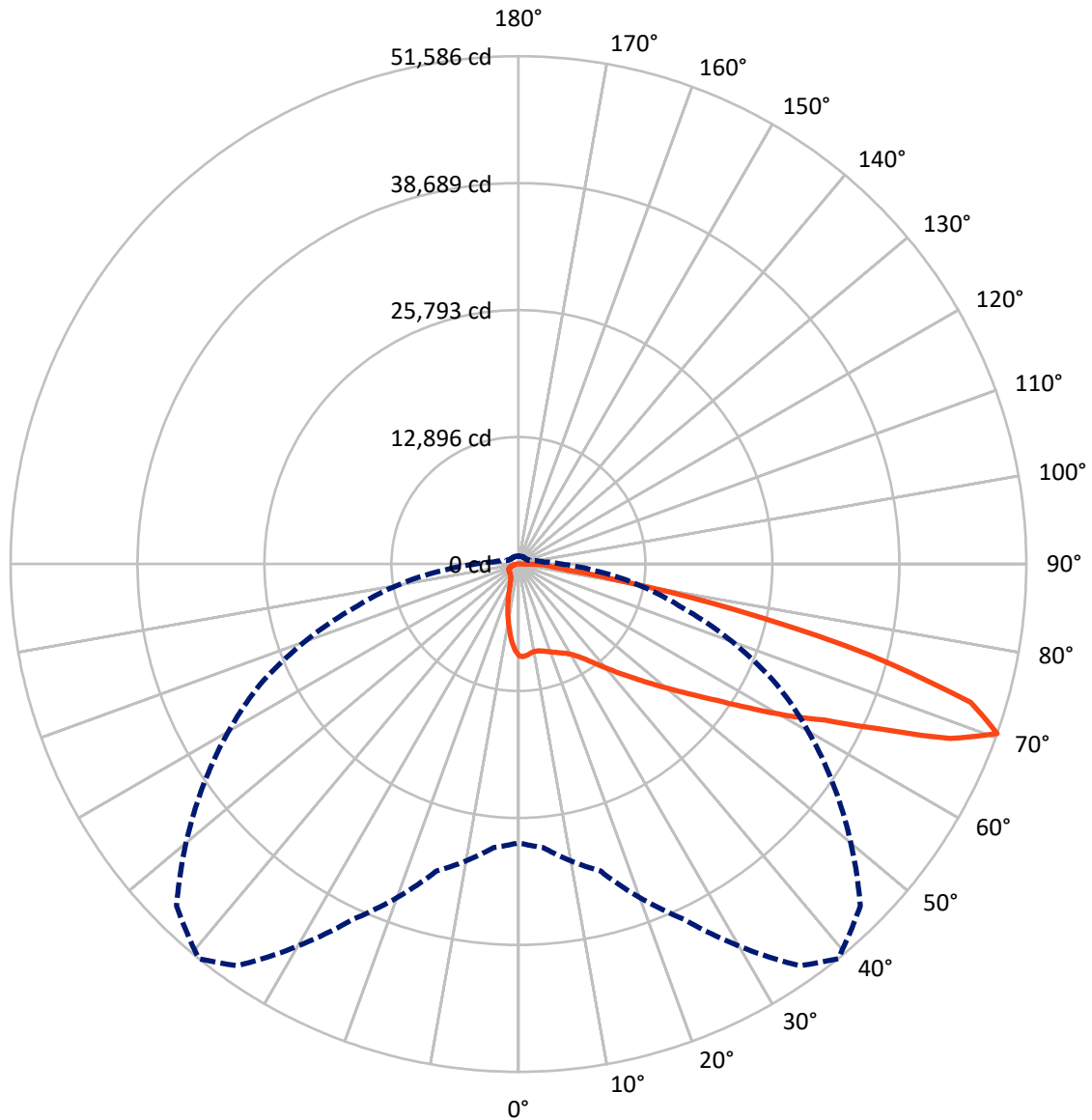


Based on 30 foot mounting height. Maximum calculated value = 10.4 fc
 Type IV - Short - Semi-Cutoff

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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 | 6984.8 | 0.0 | 6984.8 |
| | % Fixture | 11.4 | 0.0 | 11.4 |
| Street Side | Lumens | 54429.1 | 0.0 | 54429.1 |
| | % Fixture | 88.6 | 0.0 | 88.6 |
| Total | Lumens | 61414.0 | 0.0 | 61414.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 800.1 | 1.3 |
| 10°-20° | 2000.0 | 3.3 |
| 20°-30° | 3114.1 | 5.1 |
| 30°-40° | 4851.3 | 7.9 |
| 40°-50° | 8144.4 | 13.3 |
| 50°-60° | 12938.1 | 21.1 |
| 60°-70° | 17258.0 | 28.1 |
| 70°-80° | 10421.7 | 17.0 |
| 80°-90° | 1886.2 | 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° | 61414.0 | 100.0 |
| 0°-180° | 61414.0 | 100.0 |

Coefficient of Utilization



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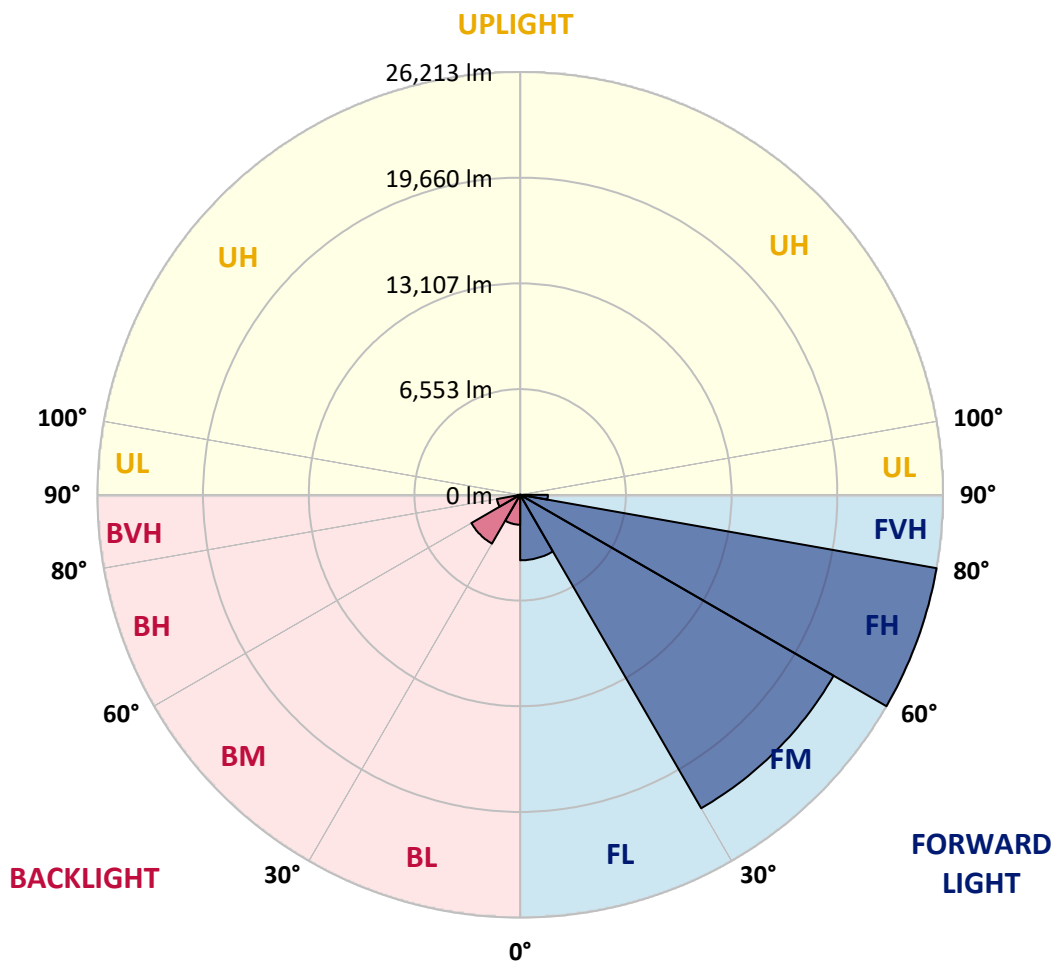
CATALOG NUMBER: GAN-AF-10-LED-U-SL4-7060-1200-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 4061.4 | 6.6 | | | |
| FM | (30°-60°) | 22438.3 | 36.5 | | | |
| FH | (60°-80°) | 26213.3 | 42.7 | | | G5 |
| FVH | (80°-90°) | 1716.2 | 2.8 | | | G5 |
| BL | (0°-30°) | 1852.9 | 3.0 | B3/2500 | | |
| BM | (30°-60°) | 3495.5 | 5.7 | B3/5000 | | |
| BH | (60°-80°) | 1466.4 | 2.4 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 170.0 | 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° | 9323.6 | 9323.6 | 9323.6 | 9323.6 | 9323.6 | 9323.6 | 9323.6 | 9323.6 | 9323.6 | 9323.6 | 9323.6 |
| 2.5° | 9504.7 | 9501.6 | 9476.6 | 9457.9 | 9442.2 | 9436.0 | 9448.5 | 9401.7 | 9361.1 | 9311.1 | 9258.0 |
| 5° | 9432.9 | 9429.8 | 9389.2 | 9351.7 | 9314.2 | 9301.7 | 9298.6 | 9214.3 | 9164.4 | 9089.4 | 8989.5 |
| 7.5° | 9354.8 | 9339.2 | 9286.1 | 9223.7 | 9158.1 | 9126.9 | 9095.7 | 8986.4 | 8930.2 | 8855.2 | 8739.7 |
| 10° | 9273.6 | 9254.9 | 9204.9 | 9142.5 | 9080.0 | 9033.2 | 8980.1 | 8874.0 | 8814.6 | 8758.4 | 8624.2 |
| 12.5° | 9189.3 | 9173.7 | 9161.2 | 9133.1 | 9089.4 | 9048.8 | 9008.2 | 8917.7 | 8855.2 | 8789.7 | 8633.5 |
| 15° | 9176.8 | 9170.6 | 9198.7 | 9217.4 | 9192.5 | 9167.5 | 9123.8 | 9045.7 | 8980.1 | 8914.6 | 8711.6 |
| 17.5° | 9276.8 | 9273.6 | 9345.5 | 9395.4 | 9382.9 | 9339.2 | 9279.9 | 9192.5 | 9139.4 | 9083.2 | 8830.3 |
| 20° | 9495.3 | 9510.9 | 9598.4 | 9663.9 | 9601.5 | 9539.0 | 9442.2 | 9320.5 | 9292.4 | 9267.4 | 8952.0 |
| 22.5° | 9907.5 | 9923.1 | 9985.6 | 10010.5 | 9848.2 | 9757.6 | 9623.4 | 9467.2 | 9448.5 | 9467.2 | 9098.8 |
| 25° | 10550.7 | 10535.1 | 10525.7 | 10432.1 | 10135.4 | 9994.9 | 9823.2 | 9660.8 | 9670.2 | 9754.5 | 9304.9 |
| 27.5° | 11403.1 | 11318.8 | 11187.7 | 10906.7 | 10435.2 | 10279.1 | 10069.9 | 9920.0 | 9979.3 | 10141.7 | 9614.0 |
| 30° | 12286.8 | 12193.1 | 11890.2 | 11431.2 | 10828.6 | 10656.9 | 10422.7 | 10254.1 | 10410.2 | 10666.2 | 10026.1 |
| 32.5° | 13104.9 | 13092.4 | 12649.0 | 12058.9 | 11371.9 | 11222.0 | 10987.9 | 10797.4 | 11050.3 | 11440.6 | 10644.4 |
| 35° | 13997.9 | 14026.0 | 13495.2 | 12786.4 | 12105.7 | 11949.6 | 11781.0 | 11637.3 | 11974.5 | 12511.6 | 11540.5 |
| 37.5° | 14953.4 | 15009.6 | 14381.9 | 13582.6 | 12942.5 | 12876.9 | 12777.0 | 12714.6 | 13236.0 | 13979.2 | 12792.6 |
| 40° | 16230.4 | 16174.2 | 15303.1 | 14481.9 | 13969.8 | 13966.7 | 13935.4 | 14010.4 | 14878.4 | 15896.3 | 14400.7 |
| 42.5° | 17598.1 | 17432.6 | 16280.4 | 15446.7 | 15097.0 | 15203.1 | 15265.6 | 15571.6 | 16854.9 | 18225.7 | 16361.6 |
| 45° | 19071.8 | 18700.3 | 17295.2 | 16467.7 | 16349.1 | 16573.9 | 16786.2 | 17451.3 | 19181.1 | 20876.6 | 18509.8 |
| 47.5° | 20249.0 | 19889.9 | 18344.3 | 17538.7 | 17797.9 | 18138.2 | 18547.3 | 19599.5 | 21785.2 | 23615.0 | 20629.9 |
| 50° | 21176.4 | 20942.2 | 19402.8 | 18787.7 | 19393.5 | 19918.0 | 20586.2 | 22031.9 | 24495.5 | 26281.6 | 22594.0 |
| 52.5° | 22075.6 | 21900.8 | 20470.7 | 20067.9 | 21266.9 | 21991.3 | 22900.0 | 24642.3 | 27274.5 | 28904.4 | 24245.7 |
| 55° | 22887.5 | 22762.6 | 21619.8 | 21663.5 | 23471.4 | 24414.3 | 25557.1 | 27614.8 | 30303.3 | 31243.1 | 25644.6 |
| 57.5° | 23802.3 | 23643.1 | 22931.2 | 23665.0 | 26303.4 | 27527.4 | 29013.7 | 30955.8 | 33144.7 | 33322.6 | 26709.3 |
| 60° | 24723.5 | 24586.1 | 24386.2 | 25975.6 | 29900.5 | 31186.9 | 32595.1 | 34193.8 | 36026.7 | 34936.9 | 26646.9 |
| 62.5° | 25522.8 | 25538.4 | 25891.2 | 28401.7 | 33422.6 | 34912.0 | 36629.3 | 38209.3 | 38633.9 | 35218.0 | 24676.6 |
| 65° | 26877.9 | 27124.6 | 28176.9 | 31836.4 | 38381.0 | 40373.1 | 42480.8 | 42227.8 | 39355.2 | 32592.0 | 20452.0 |
| 67.5° | 28489.1 | 28923.1 | 31055.8 | 36413.9 | 44647.7 | 47292.4 | 48107.4 | 43136.5 | 36466.9 | 26493.9 | 14578.7 |
| 70° | 28326.7 | 28923.1 | 32298.5 | 39826.7 | 49812.2 | 51585.8 | 49112.8 | 39039.8 | 28957.5 | 17307.7 | 7743.6 |
| 72.5° | 25154.4 | 26006.8 | 29766.2 | 38262.3 | 48185.4 | 48029.3 | 42636.9 | 29104.2 | 17204.6 | 6950.5 | 3025.6 |
| 75° | 19171.8 | 20033.6 | 23268.4 | 30228.3 | 38084.4 | 36772.9 | 30253.3 | 16077.4 | 6529.0 | 2760.2 | 1907.8 |
| 77.5° | 11028.4 | 11696.6 | 14194.6 | 18537.9 | 24161.4 | 22815.6 | 16839.3 | 7150.4 | 3178.6 | 1923.4 | 1489.4 |
| 80° | 6157.4 | 6529.0 | 8046.5 | 9404.8 | 11840.3 | 10853.6 | 7534.4 | 4443.2 | 2373.1 | 1395.7 | 1149.1 |
| 82.5° | 4867.9 | 5198.9 | 6507.2 | 5932.6 | 5408.1 | 4989.7 | 4327.7 | 3956.1 | 1895.3 | 880.5 | 686.9 |
| 85° | 4252.8 | 4568.1 | 5508.0 | 4671.2 | 3693.8 | 3387.8 | 3515.9 | 3893.7 | 1473.8 | 530.8 | 587.0 |
| 87.5° | 3940.5 | 4362.0 | 4908.5 | 3600.2 | 2875.8 | 2547.9 | 3244.2 | 4268.4 | 474.6 | 331.0 | 237.3 |
| 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° | 9323.6 | 9323.6 | 9323.6 | 9323.6 | 9323.6 | 9323.6 | 9323.6 | 9323.6 | 9323.6 | 9323.6 | 9323.6 |
| 2.5° | 9211.2 | 9161.2 | 9080.0 | 9008.2 | 8895.8 | 8836.5 | 8770.9 | 8724.1 | 8686.6 | 8655.4 | 8705.4 |
| 5° | 8927.0 | 8833.4 | 8661.6 | 8477.4 | 8258.8 | 8087.1 | 7943.5 | 7809.2 | 7715.5 | 7653.1 | 7696.8 |
| 7.5° | 8658.5 | 8505.5 | 8237.0 | 7902.9 | 7528.2 | 7209.7 | 6947.4 | 6716.4 | 6557.1 | 6454.1 | 6494.7 |
| 10° | 8505.5 | 8315.0 | 7899.8 | 7375.2 | 6822.5 | 6326.1 | 5913.9 | 5557.9 | 5311.3 | 5170.8 | 5192.6 |
| 12.5° | 8468.0 | 8221.4 | 7646.8 | 6925.6 | 6169.9 | 5479.9 | 4899.1 | 4405.8 | 4059.2 | 3878.1 | 3884.3 |
| 15° | 8496.2 | 8180.8 | 7409.5 | 6494.7 | 5539.2 | 4668.0 | 3943.6 | 3344.1 | 2941.3 | 2735.3 | 2732.1 |
| 17.5° | 8543.0 | 8149.6 | 7159.7 | 6029.4 | 4899.1 | 3887.4 | 3078.7 | 2491.7 | 2135.7 | 1970.3 | 1957.8 |
| 20° | 8592.9 | 8099.6 | 6878.7 | 5526.7 | 4234.0 | 3163.0 | 2410.5 | 1951.5 | 1726.7 | 1636.2 | 1629.9 |
| 22.5° | 8664.8 | 8055.9 | 6588.3 | 4995.9 | 3581.4 | 2576.0 | 1982.7 | 1673.6 | 1555.0 | 1508.1 | 1501.9 |
| 25° | 8780.3 | 8034.0 | 6279.2 | 4443.2 | 2994.4 | 2154.5 | 1726.7 | 1536.2 | 1467.5 | 1436.3 | 1433.2 |
| 27.5° | 8973.9 | 8065.3 | 5988.8 | 3906.2 | 2516.7 | 1870.3 | 1583.1 | 1467.5 | 1417.6 | 1389.5 | 1386.4 |
| 30° | 9223.7 | 8162.1 | 5682.8 | 3397.2 | 2145.1 | 1676.7 | 1495.6 | 1420.7 | 1380.1 | 1352.0 | 1352.0 |
| 32.5° | 9639.0 | 8324.4 | 5361.2 | 2956.9 | 1879.7 | 1542.5 | 1430.1 | 1380.1 | 1345.8 | 1323.9 | 1320.8 |
| 35° | 10251.0 | 8630.4 | 5061.5 | 2591.6 | 1689.2 | 1445.7 | 1373.9 | 1336.4 | 1311.4 | 1298.9 | 1298.9 |
| 37.5° | 11140.9 | 9114.4 | 4796.1 | 2329.3 | 1573.7 | 1380.1 | 1320.8 | 1292.7 | 1277.1 | 1277.1 | 1277.1 |
| 40° | 12336.7 | 9782.6 | 4580.6 | 2154.5 | 1508.1 | 1333.3 | 1280.2 | 1258.3 | 1249.0 | 1252.1 | 1252.1 |
| 42.5° | 13813.7 | 10650.6 | 4437.0 | 2032.7 | 1476.9 | 1305.2 | 1252.1 | 1233.4 | 1224.0 | 1220.9 | 1224.0 |
| 45° | 15496.7 | 11637.3 | 4421.4 | 1942.2 | 1445.7 | 1286.4 | 1233.4 | 1214.6 | 1195.9 | 1183.4 | 1183.4 |
| 47.5° | 17132.8 | 12639.6 | 4549.4 | 1910.9 | 1411.3 | 1264.6 | 1217.8 | 1199.0 | 1170.9 | 1142.8 | 1142.8 |
| 50° | 18578.5 | 13492.1 | 4721.1 | 1923.4 | 1398.9 | 1233.4 | 1192.8 | 1183.4 | 1139.7 | 1108.5 | 1105.3 |
| 52.5° | 19727.6 | 14147.8 | 4861.6 | 1960.9 | 1411.3 | 1211.5 | 1161.5 | 1164.7 | 1117.8 | 1083.5 | 1080.4 |
| 55° | 20648.7 | 14578.7 | 4824.2 | 1998.4 | 1439.4 | 1199.0 | 1133.4 | 1139.7 | 1102.2 | 1067.9 | 1067.9 |
| 57.5° | 21051.5 | 14419.4 | 4408.9 | 1967.1 | 1461.3 | 1202.1 | 1111.6 | 1136.6 | 1105.3 | 1074.1 | 1074.1 |
| 60° | 20186.6 | 13005.0 | 3631.4 | 1829.7 | 1433.2 | 1192.8 | 1102.2 | 1149.1 | 1145.9 | 1114.7 | 1111.6 |
| 62.5° | 17570.0 | 10472.7 | 2816.4 | 1626.8 | 1336.4 | 1145.9 | 1077.2 | 1145.9 | 1180.3 | 1170.9 | 1167.8 |
| 65° | 13542.0 | 7459.5 | 2151.4 | 1408.2 | 1205.3 | 1067.9 | 1011.7 | 1074.1 | 1121.0 | 1133.4 | 1130.3 |
| 67.5° | 8789.7 | 4571.2 | 1658.0 | 1202.1 | 1058.5 | 977.3 | 927.4 | 955.5 | 964.8 | 964.8 | 958.6 |
| 70° | 4321.5 | 2460.5 | 1320.8 | 1011.7 | 908.6 | 880.5 | 852.4 | 836.8 | 821.2 | 808.7 | 808.7 |
| 72.5° | 2132.6 | 1608.1 | 1086.6 | 855.5 | 783.7 | 771.2 | 765.0 | 746.3 | 733.8 | 718.2 | 711.9 |
| 75° | 1576.8 | 1308.3 | 924.2 | 721.3 | 674.4 | 662.0 | 674.4 | 658.8 | 655.7 | 643.2 | 637.0 |
| 77.5° | 1295.8 | 1114.7 | 796.2 | 618.2 | 577.7 | 555.8 | 574.5 | 577.7 | 580.8 | 562.0 | 555.8 |
| 80° | 1052.3 | 943.0 | 665.1 | 512.1 | 474.6 | 459.0 | 471.5 | 496.5 | 502.7 | 474.6 | 462.1 |
| 82.5° | 758.8 | 771.2 | 537.1 | 399.7 | 368.4 | 356.0 | 380.9 | 412.2 | 418.4 | 377.8 | 368.4 |
| 85° | 637.0 | 643.2 | 412.2 | 284.1 | 252.9 | 234.2 | 274.8 | 306.0 | 327.9 | 287.3 | 277.9 |
| 87.5° | 265.4 | 377.8 | 237.3 | 159.2 | 140.5 | 121.8 | 146.8 | 162.4 | 196.7 | 181.1 | 178.0 |
| 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)