

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: P653260

Luminaire Tested: **GLAN-SA3D-840-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P653260
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-SA3D-840-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19612.1 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

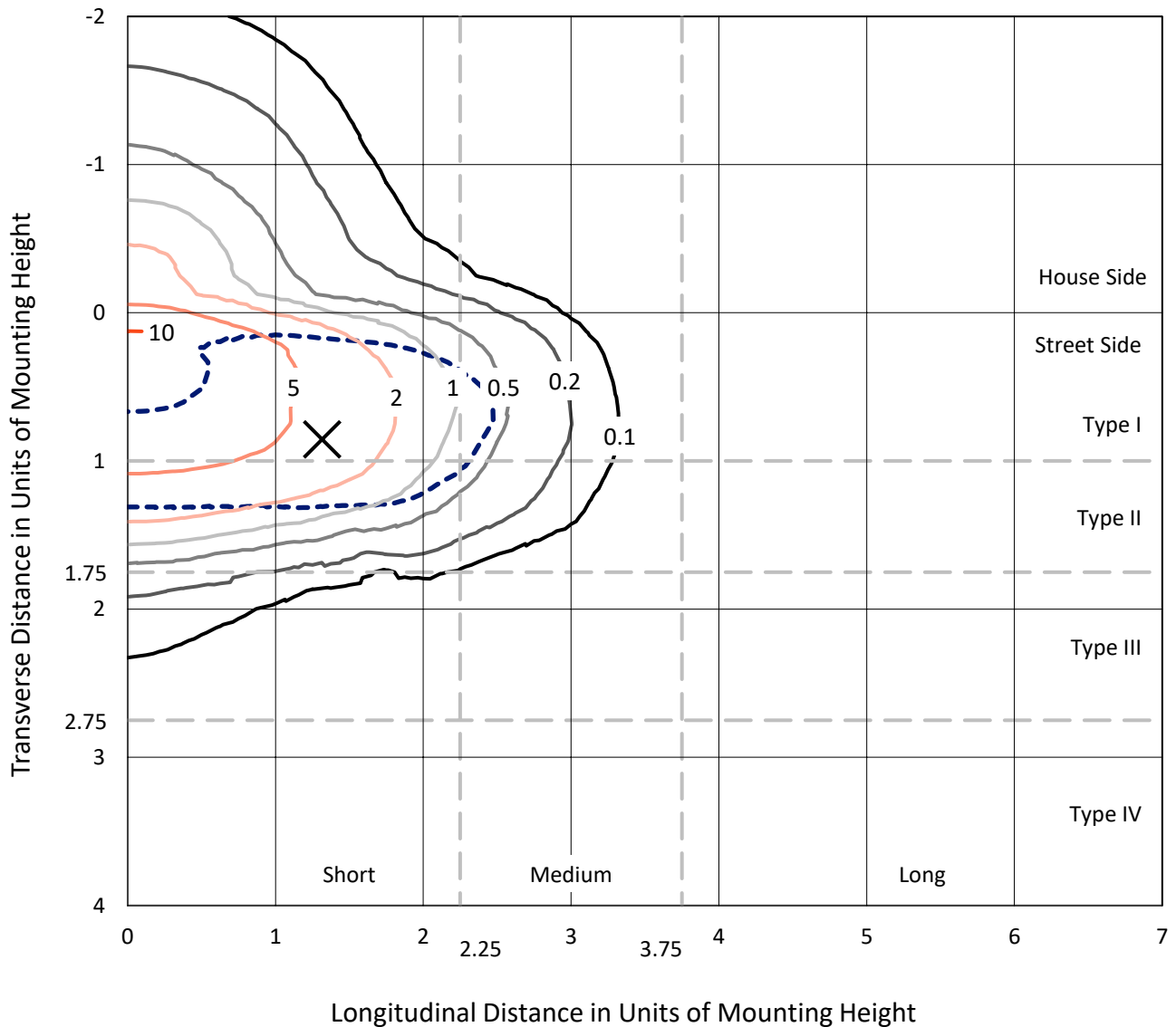
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

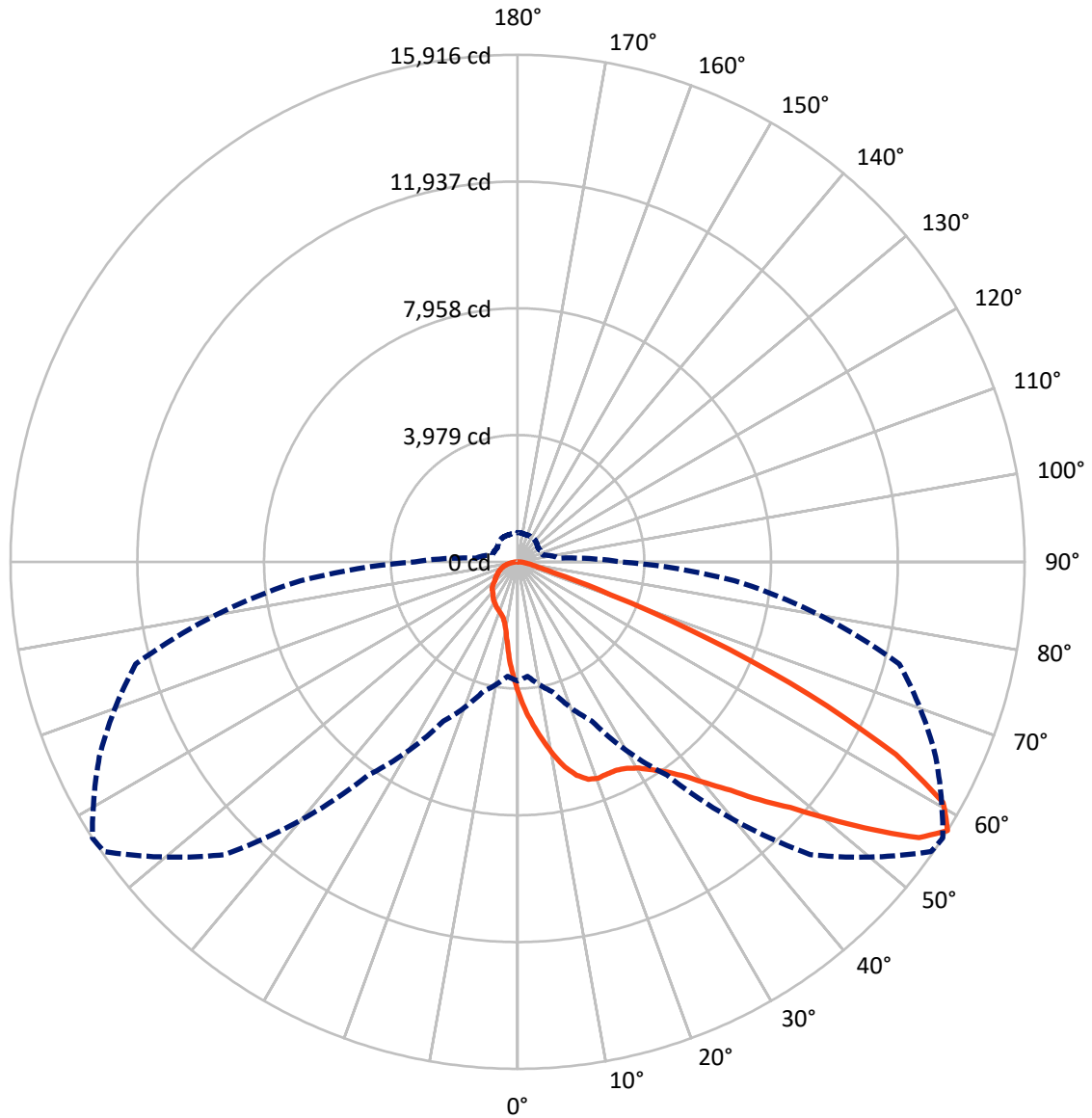
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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 | 2982.4 | 0.0 | 2982.4 |
| | % Fixture | 15.2 | 0.0 | 15.2 |
| Street Side | Lumens | 16629.7 | 0.0 | 16629.7 |
| | % Fixture | 84.8 | 0.0 | 84.8 |
| Total | Lumens | 19612.1 | 0.0 | 19612.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 396.0 | 2.0 |
| 10°-20° | 1167.0 | 6.0 |
| 20°-30° | 1937.9 | 9.9 |
| 30°-40° | 2919.0 | 14.9 |
| 40°-50° | 4382.6 | 22.3 |
| 50°-60° | 4912.4 | 25.0 |
| 60°-70° | 2875.0 | 14.7 |
| 70°-80° | 850.4 | 4.3 |
| 80°-90° | 171.9 | 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° | 19612.1 | 100.0 |
| 0°-180° | 19612.1 | 100.0 |

Coefficient of Utilization



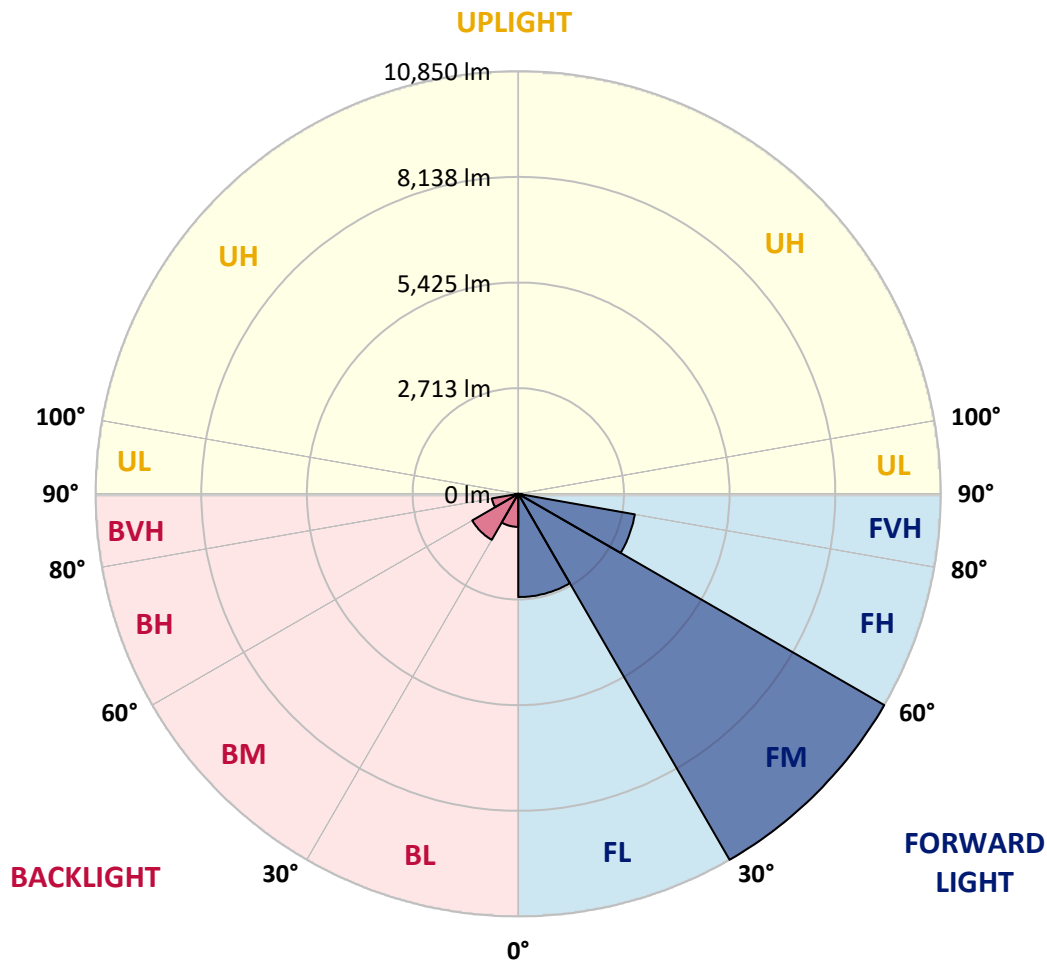
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2651.1 | 13.5 | | | |
| FM (30°-60°) | 10850.3 | 55.3 | | | |
| FH (60°-80°) | 3039.1 | 15.5 | | | G2/5000 |
| FVH (80°-90°) | 89.2 | 0.5 | | | G1/100 |
| BL (0°-30°) | 849.8 | 4.3 | B2/1000 | | |
| BM (30°-60°) | 1363.7 | 7.0 | B2/2500 | | |
| BH (60°-80°) | 686.2 | 3.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 82.7 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 4120.3 | 4120.3 | 4120.3 | 4120.3 | 4120.3 | 4120.3 | 4120.3 | 4120.3 | 4120.3 | 4120.3 | 4120.3 |
| 2.5° | 5119.8 | 5063.9 | 5019.9 | 4981.2 | 4930.8 | 4794.5 | 4658.1 | 4655.9 | 4547.5 | 4380.1 | 4208.3 |
| 5° | 5953.9 | 5878.8 | 5888.4 | 5768.2 | 5647.9 | 5450.4 | 5161.6 | 5146.6 | 4915.8 | 4602.3 | 4283.5 |
| 7.5° | 6497.1 | 6498.2 | 6468.1 | 6399.4 | 6269.5 | 6045.2 | 5717.7 | 5643.6 | 5322.7 | 4847.1 | 4369.3 |
| 10° | 6469.2 | 6498.2 | 6548.6 | 6607.7 | 6647.4 | 6536.8 | 6238.4 | 6148.2 | 5730.6 | 5143.4 | 4464.9 |
| 12.5° | 6097.8 | 6142.8 | 6214.7 | 6362.9 | 6602.4 | 6784.9 | 6682.8 | 6609.8 | 6203.0 | 5438.6 | 4570.1 |
| 15° | 5865.9 | 5892.7 | 5932.4 | 6032.2 | 6289.9 | 6726.8 | 6991.0 | 6952.3 | 6648.5 | 5772.5 | 4688.2 |
| 17.5° | 5795.0 | 5821.8 | 5834.8 | 5895.9 | 6079.5 | 6527.2 | 7112.3 | 7181.0 | 7043.5 | 6079.5 | 4807.3 |
| 20° | 5865.9 | 5878.8 | 5878.8 | 5915.3 | 6059.2 | 6410.2 | 7106.9 | 7245.4 | 7367.7 | 6447.7 | 4919.0 |
| 22.5° | 6051.6 | 6057.0 | 6049.5 | 6062.3 | 6169.7 | 6442.4 | 7056.4 | 7228.2 | 7629.7 | 6760.1 | 5006.0 |
| 25° | 6353.3 | 6361.8 | 6312.5 | 6282.4 | 6360.8 | 6584.1 | 7084.3 | 7242.2 | 7834.8 | 7058.6 | 5063.9 |
| 27.5° | 6695.7 | 6706.5 | 6646.3 | 6576.5 | 6613.0 | 6759.0 | 7193.8 | 7335.5 | 7988.2 | 7352.8 | 5100.4 |
| 30° | 7115.4 | 7119.7 | 7018.9 | 6935.1 | 6911.5 | 7019.9 | 7380.6 | 7512.7 | 8179.4 | 7699.5 | 5155.2 |
| 32.5° | 7544.9 | 7577.1 | 7447.2 | 7329.1 | 7289.4 | 7322.7 | 7656.5 | 7784.3 | 8407.0 | 8072.0 | 5243.2 |
| 35° | 8128.9 | 8134.3 | 7978.7 | 7834.8 | 7703.8 | 7746.7 | 8009.8 | 8102.1 | 8721.5 | 8502.5 | 5367.8 |
| 37.5° | 8857.8 | 8907.2 | 8692.5 | 8424.1 | 8263.1 | 8200.8 | 8437.0 | 8537.9 | 9162.8 | 9030.7 | 5555.6 |
| 40° | 9667.3 | 9685.5 | 9502.0 | 9334.5 | 9040.3 | 8860.0 | 9023.2 | 9132.7 | 9707.0 | 9660.9 | 5773.5 |
| 42.5° | 10176.2 | 10215.9 | 10229.8 | 10212.7 | 9991.5 | 9688.7 | 9751.1 | 9802.6 | 10351.2 | 10252.4 | 5996.8 |
| 45° | 10347.9 | 10407.0 | 10606.7 | 11029.6 | 11053.3 | 10754.8 | 10609.9 | 10659.3 | 11053.3 | 10849.3 | 6210.4 |
| 47.5° | 10063.5 | 10164.3 | 10532.6 | 11400.0 | 12049.5 | 12072.1 | 11635.2 | 11526.7 | 11693.1 | 11344.2 | 6365.1 |
| 50° | 9328.0 | 9349.6 | 9913.1 | 11169.2 | 12516.5 | 13331.4 | 12879.4 | 12677.6 | 12300.7 | 11710.3 | 6471.3 |
| 52.5° | 8190.1 | 8214.8 | 8687.2 | 10096.7 | 12228.8 | 14211.6 | 14335.1 | 13974.4 | 12918.0 | 11994.8 | 6541.1 |
| 55° | 6079.5 | 6222.3 | 6741.9 | 8104.2 | 10865.4 | 14129.0 | 15492.4 | 15287.4 | 13664.1 | 12220.2 | 6650.6 |
| 57.5° | 3738.1 | 3607.1 | 4223.3 | 5513.8 | 8171.8 | 12993.2 | 15849.9 | 15916.4 | 14485.4 | 12409.1 | 6834.2 |
| 60° | 1719.8 | 1745.6 | 2000.0 | 2843.8 | 4981.2 | 10164.3 | 14928.8 | 15349.6 | 14939.5 | 12402.7 | 6880.4 |
| 62.5° | 1185.2 | 1161.6 | 1097.2 | 1248.5 | 2271.6 | 6428.4 | 12609.9 | 13322.8 | 14029.1 | 12017.3 | 6696.8 |
| 65° | 1059.6 | 1035.9 | 911.5 | 869.6 | 1043.5 | 2802.0 | 9167.1 | 10066.7 | 11812.3 | 11044.7 | 6239.5 |
| 67.5° | 989.8 | 957.6 | 828.8 | 747.2 | 745.0 | 1115.4 | 5405.4 | 6488.6 | 8761.2 | 9337.7 | 5406.4 |
| 70° | 916.8 | 891.0 | 763.3 | 673.1 | 634.5 | 701.1 | 2375.7 | 3110.1 | 5688.8 | 6729.0 | 4211.6 |
| 72.5° | 843.8 | 813.8 | 698.9 | 602.2 | 551.8 | 525.0 | 910.4 | 1184.1 | 3214.2 | 4034.4 | 2581.9 |
| 75° | 737.6 | 722.5 | 624.8 | 545.4 | 490.6 | 424.0 | 577.6 | 659.2 | 1537.3 | 1853.0 | 1295.8 |
| 77.5° | 645.2 | 629.1 | 555.1 | 476.7 | 436.9 | 344.6 | 410.1 | 447.7 | 648.4 | 751.5 | 585.1 |
| 80° | 472.4 | 488.5 | 468.1 | 420.8 | 389.7 | 270.5 | 275.9 | 307.0 | 385.4 | 426.2 | 357.5 |
| 82.5° | 299.5 | 329.6 | 360.7 | 324.2 | 295.2 | 213.6 | 191.1 | 202.9 | 263.0 | 279.1 | 158.9 |
| 85° | 125.6 | 127.7 | 209.3 | 197.6 | 168.5 | 126.7 | 114.9 | 121.3 | 140.6 | 147.1 | 74.1 |
| 87.5° | 48.3 | 47.3 | 74.1 | 68.7 | 52.6 | 36.5 | 36.5 | 40.8 | 55.8 | 51.6 | 23.6 |
| 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° | 4120.3 | 4120.3 | 4120.3 | 4120.3 | 4120.3 | 4120.3 | 4120.3 | 4120.3 | 4120.3 | 4120.3 | 4120.3 |
| 2.5° | 4134.3 | 4058.0 | 3906.6 | 3718.7 | 3581.4 | 3426.7 | 3290.4 | 3192.8 | 3156.3 | 3139.0 | 3106.8 |
| 5° | 4131.0 | 3980.7 | 3667.3 | 3338.8 | 3074.6 | 2804.1 | 2575.5 | 2427.3 | 2414.4 | 2315.6 | 2306.0 |
| 7.5° | 4132.1 | 3902.3 | 3403.2 | 2920.0 | 2517.4 | 2240.5 | 2051.5 | 2002.2 | 1943.1 | 1928.1 | 1935.6 |
| 10° | 4135.3 | 3802.5 | 3119.8 | 2505.7 | 2116.0 | 1934.6 | 1863.7 | 1844.4 | 1846.5 | 1853.0 | 1854.0 |
| 12.5° | 4139.6 | 3705.9 | 2825.6 | 2191.1 | 1890.5 | 1815.4 | 1807.9 | 1825.1 | 1843.3 | 1857.3 | 1860.5 |
| 15° | 4145.0 | 3595.3 | 2539.0 | 1937.7 | 1777.8 | 1771.3 | 1796.0 | 1825.1 | 1850.8 | 1871.2 | 1874.4 |
| 17.5° | 4138.6 | 3466.5 | 2298.5 | 1782.1 | 1715.6 | 1746.7 | 1787.5 | 1824.0 | 1847.6 | 1866.9 | 1869.0 |
| 20° | 4123.5 | 3322.6 | 2066.6 | 1672.6 | 1676.9 | 1727.3 | 1771.3 | 1805.7 | 1831.4 | 1841.1 | 1848.7 |
| 22.5° | 4065.6 | 3150.9 | 1864.7 | 1587.8 | 1630.7 | 1700.5 | 1753.1 | 1773.5 | 1744.5 | 1724.1 | 1729.5 |
| 25° | 3966.7 | 2927.6 | 1676.9 | 1519.1 | 1588.8 | 1662.9 | 1716.6 | 1667.2 | 1643.6 | 1635.0 | 1639.3 |
| 27.5° | 3843.3 | 2682.8 | 1535.2 | 1447.1 | 1535.2 | 1621.0 | 1606.1 | 1597.5 | 1586.7 | 1572.8 | 1575.9 |
| 30° | 3710.2 | 2443.4 | 1414.9 | 1391.4 | 1477.2 | 1526.6 | 1533.1 | 1547.0 | 1535.2 | 1513.7 | 1522.3 |
| 32.5° | 3586.7 | 2218.0 | 1323.6 | 1344.1 | 1436.4 | 1428.9 | 1477.2 | 1493.3 | 1438.5 | 1366.6 | 1369.8 |
| 35° | 3481.5 | 2008.6 | 1254.9 | 1297.9 | 1366.6 | 1369.8 | 1418.2 | 1362.3 | 1303.3 | 1268.9 | 1271.1 |
| 37.5° | 3402.1 | 1845.4 | 1209.9 | 1258.2 | 1277.6 | 1318.4 | 1292.5 | 1263.6 | 1256.0 | 1232.4 | 1233.5 |
| 40° | 3354.8 | 1702.7 | 1180.9 | 1227.1 | 1223.8 | 1251.7 | 1169.1 | 1198.1 | 1208.9 | 1201.3 | 1202.4 |
| 42.5° | 3307.6 | 1601.8 | 1150.8 | 1184.1 | 1183.0 | 1128.3 | 1110.0 | 1134.8 | 1162.7 | 1165.9 | 1163.7 |
| 45° | 3270.1 | 1523.4 | 1119.7 | 1118.6 | 1140.1 | 1054.2 | 1048.9 | 1063.9 | 1103.6 | 1122.9 | 1121.9 |
| 47.5° | 3228.2 | 1457.9 | 1072.4 | 1042.4 | 1048.9 | 1008.0 | 999.4 | 1005.9 | 1054.2 | 1085.4 | 1094.0 |
| 50° | 3175.5 | 1392.4 | 1013.4 | 972.6 | 945.8 | 965.1 | 967.2 | 968.3 | 1016.7 | 1052.1 | 1059.6 |
| 52.5° | 3133.7 | 1343.0 | 945.8 | 915.8 | 883.6 | 926.4 | 942.6 | 944.7 | 973.7 | 1002.7 | 1008.0 |
| 55° | 3158.4 | 1315.1 | 879.3 | 857.7 | 828.8 | 886.8 | 917.9 | 922.2 | 928.6 | 950.1 | 953.3 |
| 57.5° | 3232.5 | 1321.5 | 825.5 | 797.7 | 776.2 | 839.5 | 892.1 | 895.3 | 891.0 | 916.8 | 921.1 |
| 60° | 3255.0 | 1318.4 | 785.8 | 731.1 | 718.2 | 789.0 | 854.5 | 861.0 | 859.9 | 897.5 | 905.0 |
| 62.5° | 3160.6 | 1277.6 | 746.1 | 675.2 | 666.7 | 737.6 | 802.0 | 827.7 | 833.1 | 886.8 | 896.4 |
| 65° | 2938.3 | 1193.8 | 693.5 | 616.2 | 616.2 | 682.8 | 751.5 | 786.9 | 802.0 | 873.9 | 884.6 |
| 67.5° | 2645.2 | 1095.0 | 639.8 | 565.7 | 563.6 | 630.2 | 697.8 | 734.3 | 757.9 | 855.6 | 862.0 |
| 70° | 2195.4 | 961.9 | 573.3 | 511.0 | 511.0 | 571.1 | 632.3 | 676.3 | 710.7 | 821.2 | 821.2 |
| 72.5° | 1504.0 | 799.8 | 492.7 | 448.8 | 449.9 | 505.6 | 567.9 | 617.3 | 658.1 | 752.5 | 754.7 |
| 75° | 951.2 | 624.8 | 404.7 | 382.2 | 386.4 | 439.1 | 503.5 | 555.1 | 636.6 | 743.9 | 747.2 |
| 77.5° | 505.6 | 439.1 | 322.1 | 316.7 | 322.1 | 370.4 | 442.3 | 513.2 | 638.7 | 645.2 | 634.5 |
| 80° | 327.4 | 311.3 | 254.4 | 243.7 | 245.8 | 298.5 | 394.0 | 487.4 | 513.2 | 519.6 | 495.9 |
| 82.5° | 178.2 | 197.6 | 180.4 | 169.6 | 169.6 | 233.0 | 336.0 | 387.5 | 368.2 | 306.0 | 292.0 |
| 85° | 76.2 | 92.3 | 93.4 | 81.6 | 78.4 | 143.9 | 225.5 | 211.5 | 196.5 | 187.9 | 185.7 |
| 87.5° | 21.4 | 30.0 | 30.0 | 22.5 | 17.2 | 39.7 | 45.1 | 12.9 | 0.0 | 1.1 | 2.2 |
| 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)