

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: P193506

Luminaire Tested: **GAN-AF-08-LED-U-AFL-8030-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
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-AFL-8030-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32266 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 334
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

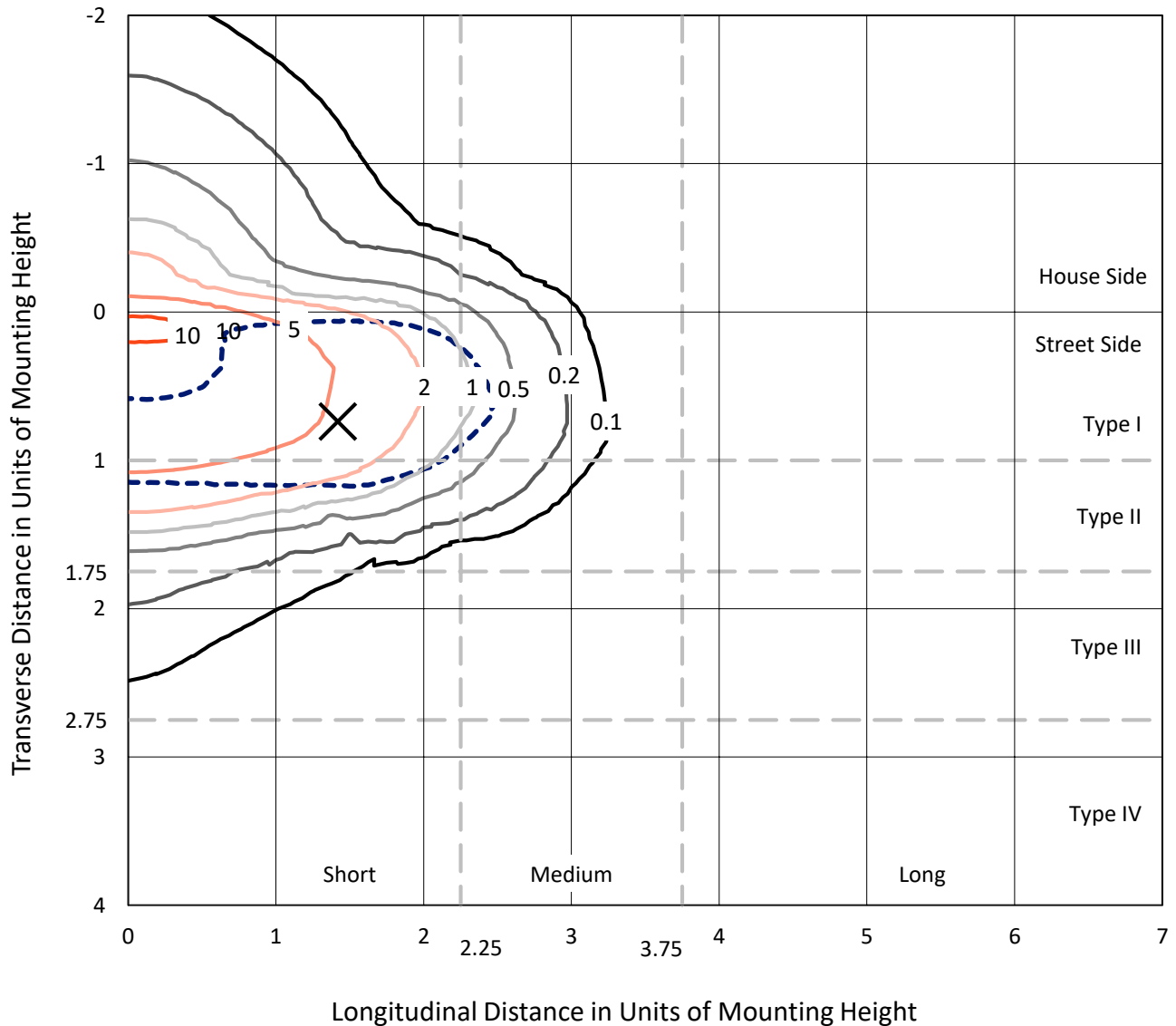


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

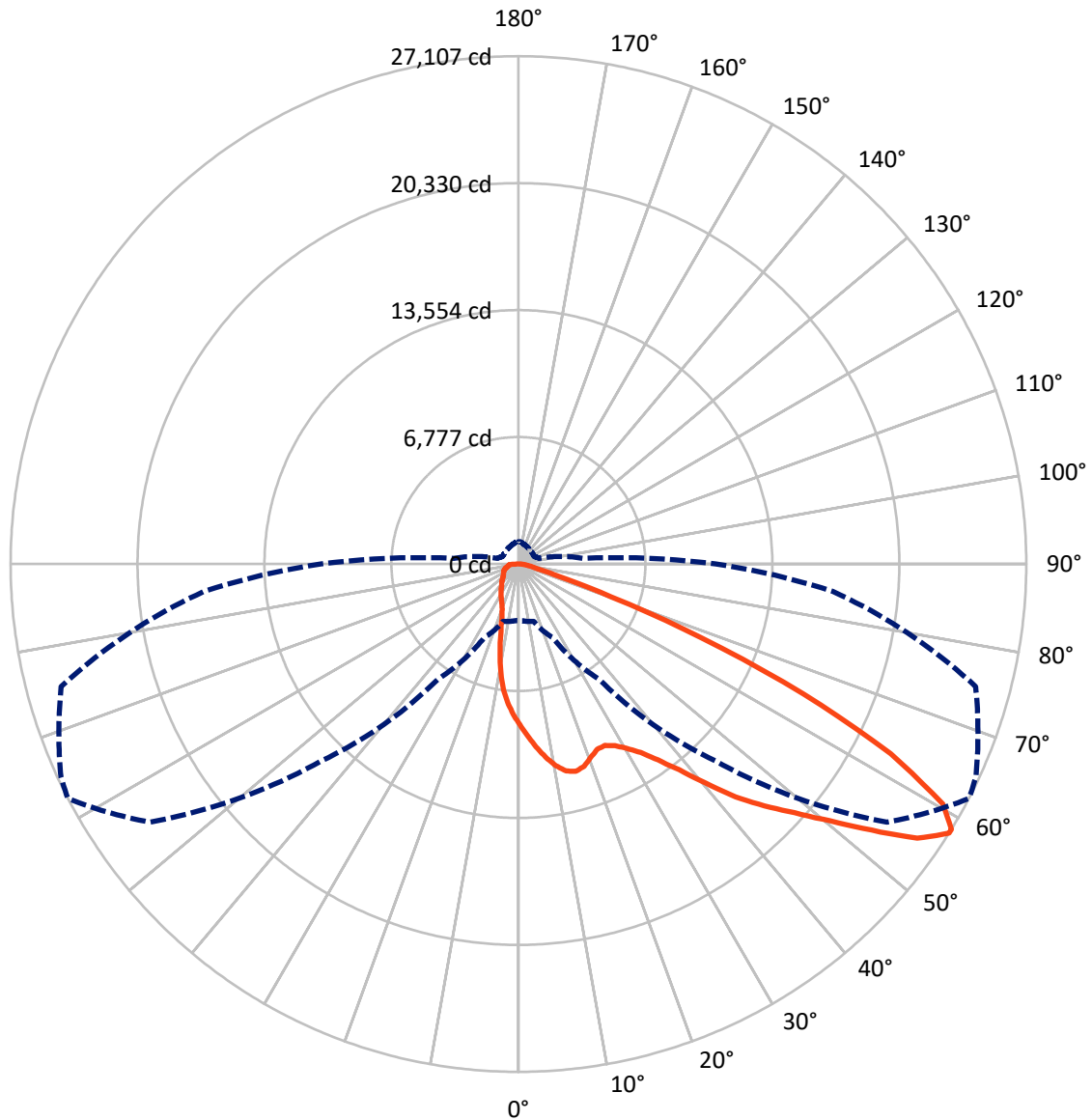


Based on 30 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4920.7 | 0.0 | 4920.7 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 27345.3 | 0.0 | 27345.3 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 32266.0 | 0.0 | 32266.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 766.5 | 2.4 |
| 10°-20° | 1959.4 | 6.1 |
| 20°-30° | 3167.4 | 9.8 |
| 30°-40° | 5028.2 | 15.6 |
| 40°-50° | 7357.3 | 22.8 |
| 50°-60° | 7695.2 | 23.8 |
| 60°-70° | 4546.3 | 14.1 |
| 70°-80° | 1280.7 | 4.0 |
| 80°-90° | 465.0 | 1.4 |
| 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° | 32266.0 | 100.0 |
| 0°-180° | 32266.0 | 100.0 |



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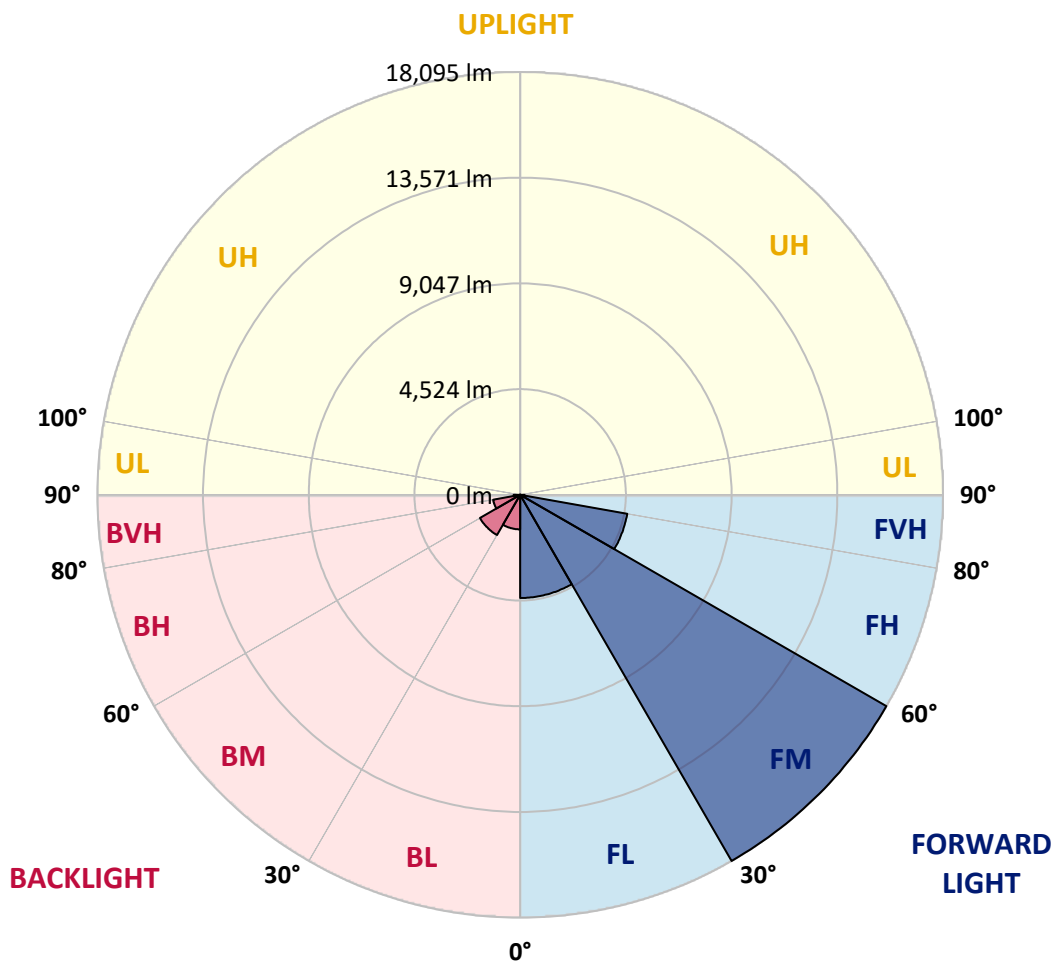
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4414.4 | 13.7 | | | |
| FM (30°-60°) | 18094.6 | 56.1 | | | |
| FH (60°-80°) | 4652.9 | 14.4 | | | G2/5000 |
| FVH (80°-90°) | 183.4 | 0.6 | | | G2/225 |
| BL (0°-30°) | 1478.9 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 1986.1 | 6.2 | B2/2500 | | |
| BH (60°-80°) | 1174.1 | 3.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 281.5 | 0.9 | | | G3/500 |
| 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° | 62.5° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8570.8 | 8570.8 | 8570.8 | 8570.8 | 8570.8 | 8570.8 | 8570.8 | 8570.8 | 8570.8 | 8570.8 | 8570.8 |
| 2.5° | 9793.9 | 9714.9 | 9664.8 | 9620.7 | 9563.0 | 9439.9 | 9274.3 | 9169.4 | 9116.3 | 8935.5 | 8721.2 |
| 5° | 10754.2 | 10684.3 | 10632.6 | 10573.3 | 10470.0 | 10277.1 | 10009.7 | 9796.9 | 9692.1 | 9330.5 | 8902.0 |
| 7.5° | 10529.3 | 10558.2 | 10647.8 | 10804.3 | 10938.0 | 10912.2 | 10673.6 | 10403.2 | 10264.9 | 9762.0 | 9111.7 |
| 10° | 9174.0 | 9224.1 | 9379.1 | 9745.3 | 10337.8 | 10945.6 | 11131.0 | 10944.1 | 10804.3 | 10188.9 | 9327.5 |
| 12.5° | 8902.0 | 8900.5 | 8912.7 | 9009.9 | 9362.4 | 10217.8 | 11146.1 | 11334.6 | 11251.0 | 10596.1 | 9547.8 |
| 15° | 9012.9 | 9016.0 | 9006.9 | 9047.9 | 9157.3 | 9496.1 | 10681.2 | 11485.0 | 11544.2 | 11006.4 | 9775.7 |
| 17.5° | 9304.7 | 9297.1 | 9262.1 | 9262.1 | 9301.6 | 9433.8 | 10134.2 | 11345.2 | 11618.7 | 11369.5 | 9976.2 |
| 20° | 9793.9 | 9759.0 | 9666.3 | 9581.2 | 9538.6 | 9610.1 | 9909.4 | 11023.1 | 11489.5 | 11687.0 | 10141.8 |
| 22.5° | 10386.5 | 10359.1 | 10208.7 | 10026.4 | 9879.0 | 9877.5 | 10024.8 | 10742.0 | 11266.2 | 11986.4 | 10281.6 |
| 25° | 11152.2 | 11108.2 | 10884.8 | 10593.1 | 10334.8 | 10236.0 | 10277.1 | 10728.3 | 11144.6 | 12311.5 | 10406.2 |
| 27.5° | 12051.7 | 11971.2 | 11706.8 | 11285.9 | 10906.1 | 10707.0 | 10647.8 | 10976.0 | 11255.5 | 12714.1 | 10579.4 |
| 30° | 13142.6 | 13049.9 | 12711.1 | 12162.6 | 11626.3 | 11299.6 | 11173.5 | 11415.1 | 11623.2 | 13204.9 | 10857.5 |
| 32.5° | 14383.9 | 14250.2 | 13858.2 | 13253.5 | 12548.5 | 12050.2 | 11845.1 | 11995.5 | 12161.1 | 13795.9 | 11205.4 |
| 35° | 16099.3 | 15939.8 | 15373.1 | 14538.9 | 13742.8 | 13057.5 | 12729.3 | 12838.7 | 12999.8 | 14677.2 | 11708.3 |
| 37.5° | 17269.2 | 17197.8 | 16821.0 | 16037.0 | 15171.0 | 14382.4 | 13875.0 | 13938.8 | 14029.9 | 15778.7 | 12352.5 |
| 40° | 17258.6 | 17287.5 | 17295.1 | 17302.7 | 16713.1 | 15958.0 | 15412.6 | 15345.7 | 15327.5 | 16988.2 | 13084.9 |
| 42.5° | 16394.1 | 16512.6 | 16895.5 | 17671.9 | 18030.4 | 17684.0 | 17184.2 | 16991.2 | 16895.5 | 18413.3 | 13861.3 |
| 45° | 15070.7 | 15134.5 | 15851.7 | 17368.0 | 18705.1 | 19393.3 | 19015.0 | 18407.3 | 18234.0 | 19723.0 | 14505.5 |
| 47.5° | 14388.5 | 14458.4 | 14909.6 | 16562.7 | 18697.5 | 20774.4 | 20993.2 | 19835.5 | 19525.5 | 20862.6 | 15061.6 |
| 50° | 12764.3 | 12910.1 | 13478.4 | 15161.9 | 18015.3 | 21409.5 | 23061.1 | 21537.2 | 20896.0 | 21971.7 | 15619.2 |
| 52.5° | 9781.7 | 10006.6 | 10643.2 | 12858.5 | 16284.7 | 21095.0 | 24715.7 | 23600.5 | 22694.9 | 23120.4 | 16097.8 |
| 55° | 6170.2 | 6337.3 | 6872.1 | 9081.3 | 13027.1 | 19458.7 | 25343.2 | 25832.4 | 25027.2 | 24208.2 | 16512.6 |
| 57.5° | 3354.8 | 3429.2 | 3629.8 | 5013.9 | 8473.6 | 15841.0 | 24428.5 | 27102.6 | 26768.4 | 25132.0 | 16825.6 |
| 58° | 3002.3 | 3052.4 | 3177.0 | 4345.4 | 7514.8 | 14851.9 | 24022.9 | 27107.2 | 26940.1 | 25267.2 | 16849.9 |
| 60° | 2227.4 | 2201.6 | 2090.7 | 2479.6 | 4182.8 | 10260.4 | 21570.6 | 26022.4 | 26513.1 | 25432.9 | 16731.4 |
| 62.5° | 1957.0 | 1894.7 | 1668.3 | 1642.4 | 2034.4 | 4726.8 | 16505.0 | 22290.8 | 23450.1 | 24487.8 | 16011.2 |
| 65° | 1838.4 | 1771.6 | 1479.9 | 1385.7 | 1467.7 | 1999.5 | 9722.5 | 16717.7 | 18171.7 | 21622.3 | 14169.7 |
| 67.5° | 1750.3 | 1663.7 | 1359.8 | 1230.7 | 1236.8 | 1321.9 | 3897.2 | 10529.3 | 12165.7 | 16416.9 | 11021.6 |
| 70° | 1665.2 | 1571.0 | 1258.0 | 1109.1 | 1074.2 | 1045.3 | 1549.8 | 5270.7 | 6755.2 | 10369.7 | 7027.1 |
| 72.5° | 1574.1 | 1481.4 | 1168.4 | 1013.4 | 945.1 | 849.3 | 1011.9 | 2156.0 | 3011.4 | 4906.1 | 3187.7 |
| 75° | 1441.9 | 1358.3 | 1078.8 | 928.3 | 831.1 | 703.5 | 764.2 | 1125.9 | 1350.7 | 1953.9 | 1536.1 |
| 77.5° | 1279.3 | 1210.9 | 978.5 | 858.4 | 736.9 | 571.3 | 588.0 | 781.0 | 866.0 | 1118.3 | 913.1 |
| 80° | 919.2 | 943.5 | 870.6 | 771.8 | 656.4 | 463.4 | 451.3 | 569.8 | 615.3 | 718.7 | 594.1 |
| 82.5° | 645.7 | 659.4 | 720.2 | 630.5 | 542.4 | 364.7 | 332.7 | 401.1 | 428.5 | 472.5 | 320.6 |
| 85° | 445.2 | 430.0 | 493.8 | 439.1 | 392.0 | 243.1 | 227.9 | 272.0 | 288.7 | 293.2 | 165.6 |
| 87.5° | 267.4 | 267.4 | 285.6 | 235.5 | 211.2 | 126.1 | 123.1 | 155.0 | 165.6 | 158.0 | 91.2 |
| 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° | 8570.8 | 8570.8 | 8570.8 | 8570.8 | 8570.8 | 8570.8 | 8570.8 | 8570.8 | 8570.8 | 8570.8 | 8570.8 |
| 2.5° | 8593.6 | 8485.7 | 8256.3 | 8072.5 | 7840.0 | 7598.4 | 7463.2 | 7318.8 | 7220.1 | 7148.7 | 7262.6 |
| 5° | 8658.9 | 8438.6 | 7964.6 | 7514.8 | 7018.0 | 6501.4 | 6109.4 | 5744.8 | 5491.0 | 5333.0 | 5481.9 |
| 7.5° | 8762.2 | 8423.4 | 7668.3 | 6899.5 | 6007.6 | 5147.6 | 4378.8 | 3897.2 | 3616.1 | 3477.9 | 3564.5 |
| 10° | 8880.8 | 8399.1 | 7320.4 | 6065.4 | 4789.1 | 3705.8 | 3131.4 | 2937.0 | 2873.1 | 2847.3 | 2859.5 |
| 12.5° | 8979.5 | 8347.5 | 6893.4 | 5056.5 | 3596.4 | 2926.3 | 2760.7 | 2756.1 | 2769.8 | 2772.9 | 2777.4 |
| 15° | 9049.4 | 8271.5 | 6259.8 | 4005.1 | 2876.2 | 2666.5 | 2657.4 | 2684.7 | 2710.6 | 2721.2 | 2727.3 |
| 17.5° | 9096.5 | 8115.0 | 5544.2 | 3166.4 | 2576.9 | 2540.4 | 2561.7 | 2596.6 | 2624.0 | 2631.6 | 2637.6 |
| 20° | 9092.0 | 7885.6 | 4691.8 | 2640.7 | 2414.3 | 2414.3 | 2450.8 | 2478.1 | 2479.6 | 2470.5 | 2475.1 |
| 22.5° | 9044.9 | 7571.1 | 3865.3 | 2361.1 | 2269.9 | 2295.8 | 2332.2 | 2306.4 | 2200.1 | 2130.2 | 2134.7 |
| 25° | 8965.8 | 7195.8 | 3157.3 | 2183.3 | 2136.2 | 2181.8 | 2171.2 | 1976.7 | 1824.8 | 1756.4 | 1756.4 |
| 27.5° | 8896.0 | 6752.1 | 2613.3 | 2028.4 | 2002.5 | 2058.8 | 1870.4 | 1694.1 | 1630.3 | 1598.4 | 1587.7 |
| 30° | 8845.8 | 6273.5 | 2250.2 | 1879.5 | 1876.4 | 1835.4 | 1622.7 | 1574.1 | 1563.4 | 1537.6 | 1528.5 |
| 32.5° | 8858.0 | 5788.8 | 2017.7 | 1748.8 | 1759.4 | 1571.0 | 1504.2 | 1514.8 | 1505.7 | 1478.4 | 1466.2 |
| 35° | 8958.2 | 5328.5 | 1865.8 | 1630.3 | 1598.4 | 1419.1 | 1434.3 | 1454.0 | 1451.0 | 1413.0 | 1400.9 |
| 37.5° | 9137.5 | 4892.4 | 1765.5 | 1531.5 | 1394.8 | 1343.1 | 1367.4 | 1397.8 | 1390.2 | 1364.4 | 1355.3 |
| 40° | 9325.9 | 4482.2 | 1683.5 | 1454.0 | 1274.8 | 1291.5 | 1312.7 | 1329.5 | 1337.1 | 1344.6 | 1338.6 |
| 42.5° | 9509.8 | 4053.7 | 1583.2 | 1375.0 | 1224.6 | 1242.9 | 1252.0 | 1268.7 | 1309.7 | 1338.6 | 1337.1 |
| 45° | 9619.2 | 3651.1 | 1479.9 | 1262.6 | 1185.1 | 1195.7 | 1189.7 | 1223.1 | 1273.2 | 1320.3 | 1321.9 |
| 47.5° | 9740.7 | 3338.1 | 1397.8 | 1159.3 | 1147.1 | 1154.7 | 1136.5 | 1169.9 | 1215.5 | 1273.2 | 1279.3 |
| 50° | 9888.1 | 3151.2 | 1332.5 | 1077.2 | 1095.5 | 1095.5 | 1090.9 | 1121.3 | 1185.1 | 1252.0 | 1264.1 |
| 52.5° | 10055.2 | 3114.7 | 1277.8 | 1018.0 | 1043.8 | 1042.3 | 1046.9 | 1092.4 | 1162.3 | 1227.7 | 1238.3 |
| 55° | 10258.8 | 3213.5 | 1218.5 | 973.9 | 993.7 | 999.8 | 1014.9 | 1066.6 | 1125.9 | 1200.3 | 1204.9 |
| 57.5° | 10495.9 | 3414.0 | 1171.4 | 939.0 | 948.1 | 967.8 | 992.2 | 1039.3 | 1103.1 | 1185.1 | 1189.7 |
| 58° | 10535.4 | 3456.6 | 1163.8 | 935.9 | 939.0 | 961.8 | 989.1 | 1034.7 | 1098.5 | 1188.2 | 1192.7 |
| 60° | 10536.9 | 3597.9 | 1147.1 | 922.3 | 904.0 | 942.0 | 972.4 | 1018.0 | 1090.9 | 1198.8 | 1209.4 |
| 62.5° | 10163.1 | 3596.4 | 1135.0 | 902.5 | 867.6 | 914.7 | 949.6 | 1002.8 | 1083.3 | 1224.6 | 1245.9 |
| 65° | 8949.1 | 3268.2 | 1077.2 | 872.1 | 838.7 | 890.4 | 929.9 | 992.2 | 1104.6 | 1337.1 | 1350.7 |
| 67.5° | 6999.8 | 2678.7 | 969.4 | 829.6 | 800.7 | 866.0 | 917.7 | 990.6 | 1127.4 | 1362.9 | 1372.0 |
| 70° | 4628.0 | 2004.1 | 850.9 | 781.0 | 761.2 | 837.2 | 923.8 | 1042.3 | 1101.5 | 1308.2 | 1283.9 |
| 72.5° | 2402.1 | 1406.9 | 755.1 | 720.2 | 715.6 | 811.3 | 1011.9 | 1036.2 | 1075.7 | 1230.7 | 1200.3 |
| 75° | 1261.1 | 977.0 | 671.6 | 653.3 | 660.9 | 805.3 | 1194.2 | 1008.9 | 1042.3 | 1177.5 | 1235.3 |
| 77.5° | 771.8 | 788.6 | 600.2 | 592.6 | 607.8 | 787.0 | 1192.7 | 973.9 | 993.7 | 1083.3 | 1147.1 |
| 80° | 516.6 | 639.7 | 545.5 | 547.0 | 557.6 | 720.2 | 1071.2 | 919.2 | 934.4 | 1024.1 | 1089.4 |
| 82.5° | 326.7 | 378.3 | 495.3 | 521.1 | 507.5 | 594.1 | 910.1 | 837.2 | 858.4 | 1171.4 | 1238.3 |
| 85° | 165.6 | 237.0 | 430.0 | 501.4 | 457.3 | 416.3 | 738.4 | 733.9 | 744.5 | 844.8 | 882.8 |
| 87.5° | 76.0 | 130.7 | 335.8 | 437.6 | 344.9 | 259.8 | 536.3 | 543.9 | 586.5 | 600.2 | 600.2 |
| 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)