

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: P268380

Luminaire Tested: **GAN-AF-03-LED-U-T2-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-T2-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16995.3 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

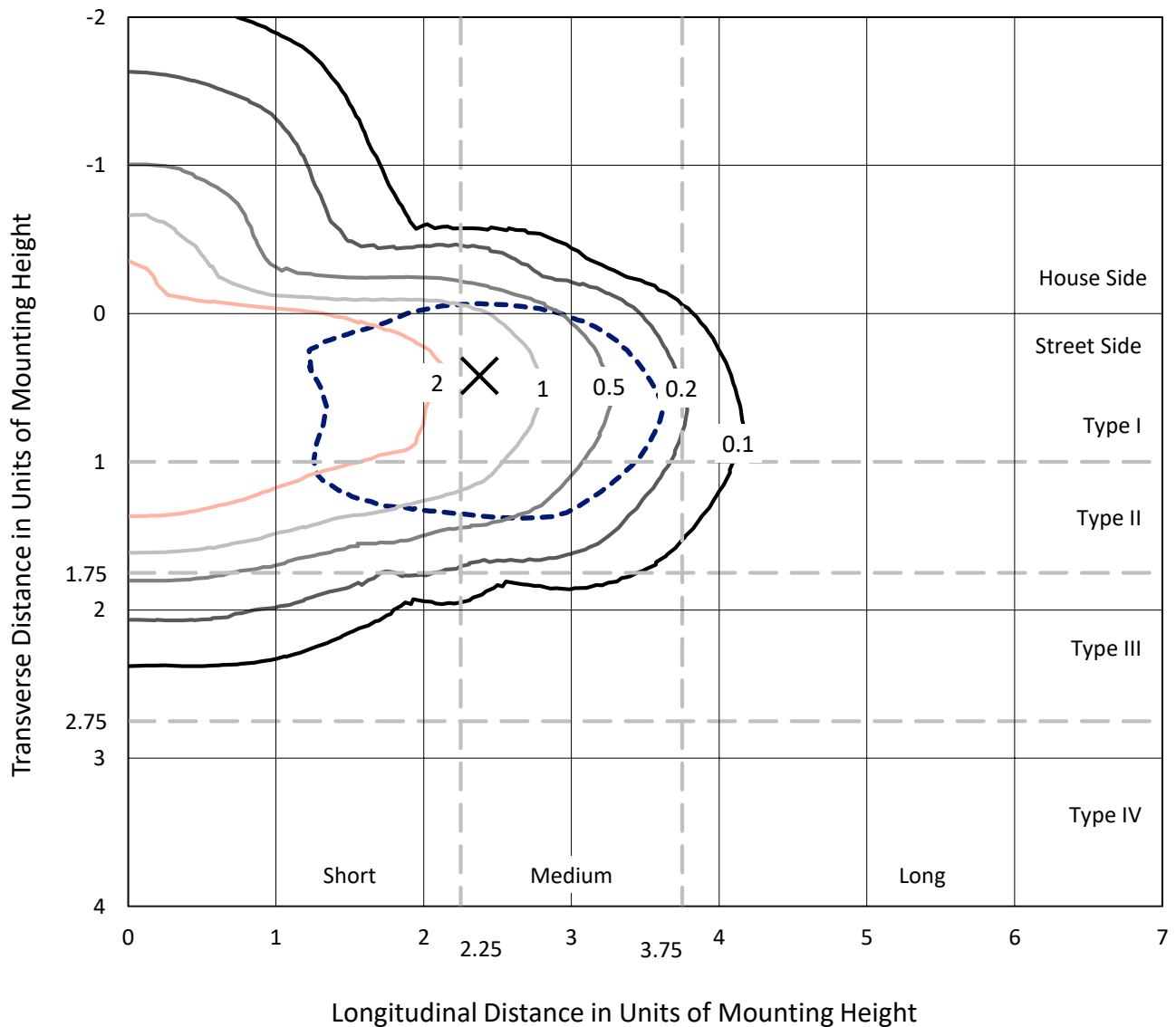
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

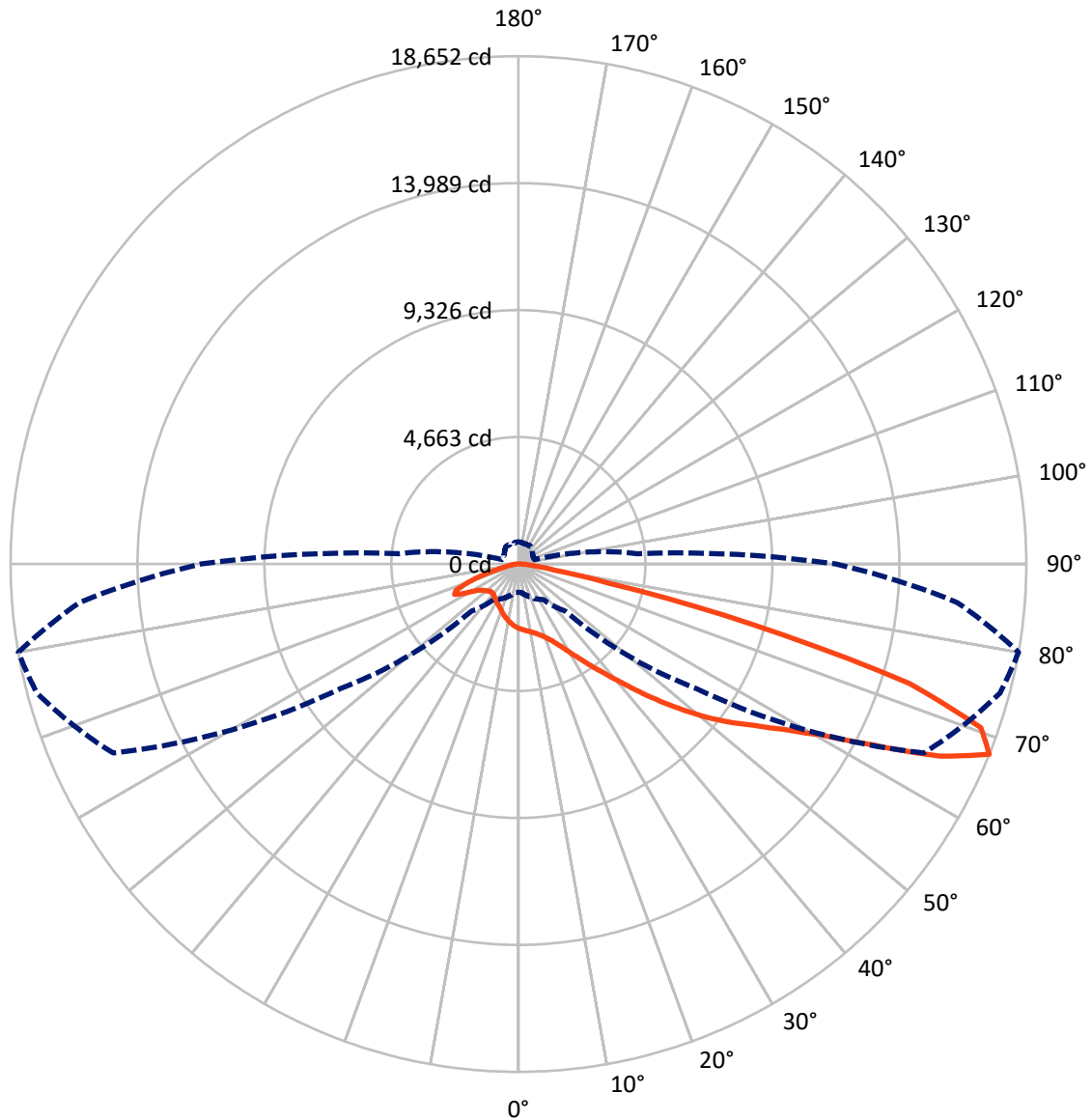


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3129.9 | 0.0 | 3129.9 |
| | % Fixture | 18.4 | 0.0 | 18.4 |
| Street Side | Lumens | 13865.4 | 0.0 | 13865.4 |
| | % Fixture | 81.6 | 0.0 | 81.6 |
| Total | Lumens | 16995.3 | 0.0 | 16995.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 217.8 | 1.3 |
| 10°-20° | 627.4 | 3.7 |
| 20°-30° | 1038.5 | 6.1 |
| 30°-40° | 1698.8 | 10.0 |
| 40°-50° | 2742.9 | 16.1 |
| 50°-60° | 3959.9 | 23.3 |
| 60°-70° | 4370.0 | 25.7 |
| 70°-80° | 2014.3 | 11.9 |
| 80°-90° | 325.8 | 1.9 |
| 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° | 16995.3 | 100.0 |
| 0°-180° | 16995.3 | 100.0 |

Coefficient of Utilization



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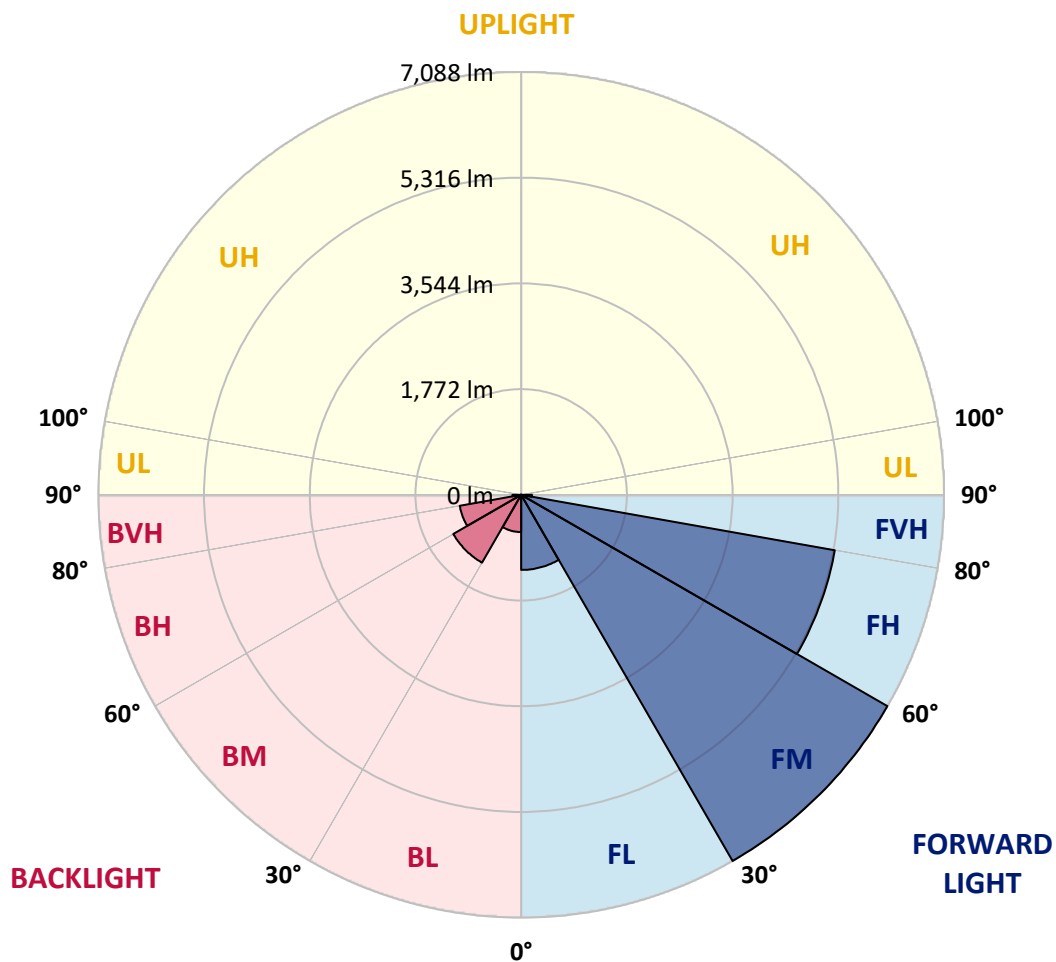
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1259.3 | 7.4 | | | |
| FM (30°-60°) | 7088.3 | 41.7 | | | |
| FH (60°-80°) | 5338.7 | 31.4 | | | G3/7500 |
| FVH (80°-90°) | 179.1 | 1.1 | | | G2/225 |
| BL (0°-30°) | 624.4 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 1313.2 | 7.7 | B2/2500 | | |
| BH (60°-80°) | 1045.6 | 6.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 146.7 | 0.9 | | | G2/225 |
| 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 80° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 2361.1 | 2361.1 | 2361.1 | 2361.1 | 2361.1 | 2361.1 | 2361.1 | 2361.1 | 2361.1 | 2361.1 | 2361.1 |
| 2.5° | 2582.8 | 2567.8 | 2570.3 | 2566.2 | 2553.6 | 2531.9 | 2508.3 | 2465.8 | 2421.4 | 2397.9 | 2379.6 |
| 5° | 2798.7 | 2794.5 | 2788.7 | 2775.4 | 2743.6 | 2698.2 | 2642.3 | 2566.9 | 2485.8 | 2443.1 | 2402.2 |
| 7.5° | 2960.3 | 2957.7 | 2950.2 | 2941.8 | 2910.9 | 2856.5 | 2772.0 | 2664.8 | 2546.9 | 2488.3 | 2424.7 |
| 10° | 2973.6 | 2977.8 | 2983.6 | 3006.3 | 3010.4 | 2981.1 | 2895.0 | 2765.3 | 2610.5 | 2535.1 | 2454.0 |
| 12.5° | 2859.8 | 2869.0 | 2891.6 | 2949.3 | 3010.4 | 3046.4 | 3002.0 | 2870.8 | 2684.9 | 2593.8 | 2490.8 |
| 15° | 2709.2 | 2714.1 | 2741.8 | 2821.3 | 2930.9 | 3042.2 | 3084.1 | 2987.0 | 2781.2 | 2669.0 | 2546.1 |
| 17.5° | 2644.8 | 2647.2 | 2666.6 | 2719.3 | 2821.3 | 2980.2 | 3130.1 | 3113.3 | 2899.1 | 2762.7 | 2613.8 |
| 20° | 2612.1 | 2618.0 | 2645.6 | 2697.5 | 2761.8 | 2900.7 | 3136.7 | 3249.7 | 3039.8 | 2879.8 | 2699.1 |
| 22.5° | 2705.1 | 2702.6 | 2712.5 | 2738.6 | 2792.9 | 2876.6 | 3131.8 | 3390.3 | 3218.7 | 3030.5 | 2810.4 |
| 25° | 2921.7 | 2930.9 | 2913.4 | 2884.1 | 2901.6 | 2960.3 | 3158.5 | 3542.6 | 3443.1 | 3223.7 | 2956.1 |
| 27.5° | 3230.5 | 3221.2 | 3195.4 | 3126.7 | 3090.8 | 3115.9 | 3247.3 | 3706.5 | 3721.6 | 3478.1 | 3148.5 |
| 30° | 3538.3 | 3530.9 | 3505.7 | 3422.1 | 3348.4 | 3327.5 | 3419.6 | 3894.8 | 4053.8 | 3783.5 | 3384.5 |
| 32.5° | 3858.0 | 3849.6 | 3826.2 | 3742.5 | 3653.9 | 3605.3 | 3664.7 | 4112.4 | 4445.4 | 4148.4 | 3662.2 |
| 35° | 4252.0 | 4236.1 | 4186.8 | 4070.5 | 3983.5 | 3945.9 | 3973.5 | 4386.0 | 4897.2 | 4580.1 | 3999.4 |
| 37.5° | 4622.7 | 4647.0 | 4596.7 | 4436.1 | 4323.3 | 4309.8 | 4340.8 | 4719.8 | 5384.1 | 5062.8 | 4386.8 |
| 40° | 4995.0 | 4999.2 | 4954.1 | 4822.7 | 4706.4 | 4684.7 | 4762.5 | 5124.7 | 5958.9 | 5640.2 | 4857.9 |
| 42.5° | 5379.9 | 5388.4 | 5312.1 | 5190.9 | 5105.4 | 5109.6 | 5198.4 | 5599.1 | 6618.3 | 6320.4 | 5400.0 |
| 45° | 5835.8 | 5848.4 | 5764.9 | 5605.9 | 5528.0 | 5684.5 | 5647.6 | 6131.3 | 7341.2 | 7093.5 | 6022.4 |
| 47.5° | 6312.8 | 6332.2 | 6268.6 | 6119.6 | 6022.4 | 6237.6 | 6096.9 | 6721.2 | 8119.3 | 7922.6 | 6706.0 |
| 50° | 6573.1 | 6600.7 | 6662.5 | 6651.7 | 6630.7 | 6594.7 | 6598.2 | 7353.6 | 8921.6 | 8786.1 | 7409.0 |
| 52.5° | 6433.3 | 6432.6 | 6658.3 | 6932.8 | 7225.6 | 7247.4 | 7209.0 | 8020.5 | 9671.3 | 9630.3 | 8070.7 |
| 55° | 5794.1 | 5837.5 | 6179.8 | 6711.1 | 7511.0 | 8010.5 | 8124.4 | 8784.4 | 10407.7 | 10455.4 | 8742.7 |
| 57.5° | 4729.8 | 4765.8 | 5227.6 | 5968.1 | 7126.2 | 8464.0 | 9426.2 | 9894.7 | 11230.9 | 11453.5 | 9637.0 |
| 60° | 3207.8 | 3251.3 | 3740.8 | 4630.3 | 6090.2 | 8211.2 | 10665.3 | 11876.0 | 12216.5 | 12722.8 | 10892.0 |
| 62.5° | 1885.1 | 1924.3 | 2323.5 | 2920.8 | 4288.1 | 7037.4 | 11209.2 | 14694.8 | 13781.9 | 14637.9 | 12806.3 |
| 65° | 1297.7 | 1324.6 | 1518.6 | 1818.1 | 2464.1 | 4739.8 | 10534.9 | 16641.0 | 16190.8 | 17010.8 | 15026.2 |
| 67.5° | 1044.2 | 1040.9 | 1194.7 | 1398.9 | 1586.3 | 2444.0 | 7966.2 | 16420.9 | 18309.3 | 18651.6 | 16178.3 |
| 70° | 860.0 | 856.8 | 961.4 | 1130.3 | 1267.6 | 1376.4 | 4339.2 | 13857.3 | 17877.6 | 18016.4 | 15117.3 |
| 72.5° | 719.5 | 722.9 | 789.8 | 915.4 | 1040.0 | 1036.6 | 1906.8 | 9748.2 | 14064.0 | 15024.5 | 12050.9 |
| 75° | 607.4 | 609.1 | 653.4 | 742.1 | 844.2 | 835.1 | 1034.2 | 5281.1 | 8175.4 | 8843.9 | 6680.2 |
| 77.5° | 517.1 | 518.7 | 547.2 | 596.6 | 669.3 | 666.1 | 754.7 | 2281.7 | 3410.3 | 3368.6 | 2285.0 |
| 80° | 461.0 | 461.0 | 474.5 | 483.6 | 523.8 | 508.7 | 559.7 | 1096.0 | 1441.6 | 1331.2 | 912.0 |
| 82.5° | 361.5 | 363.2 | 445.1 | 441.7 | 412.5 | 393.3 | 393.3 | 645.9 | 763.9 | 706.2 | 533.9 |
| 85° | 203.3 | 202.5 | 287.0 | 346.3 | 363.2 | 276.9 | 274.4 | 361.5 | 415.8 | 366.5 | 258.5 |
| 87.5° | 87.0 | 88.8 | 132.9 | 154.0 | 205.8 | 172.4 | 169.9 | 186.6 | 211.7 | 183.3 | 119.7 |
| 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° | 2361.1 | 2361.1 | 2361.1 | 2361.1 | 2361.1 | 2361.1 | 2361.1 | 2361.1 | 2361.1 | 2361.1 | 2361.1 |
| 2.5° | 2362.0 | 2340.3 | 2292.6 | 2233.1 | 2179.6 | 2144.4 | 2112.6 | 2066.6 | 2069.2 | 2037.4 | 2013.9 |
| 5° | 2360.2 | 2315.1 | 2204.7 | 2073.3 | 1946.9 | 1855.8 | 1787.2 | 1725.3 | 1710.3 | 1680.9 | 1663.3 |
| 7.5° | 2362.0 | 2288.3 | 2102.7 | 1892.5 | 1736.2 | 1620.7 | 1562.2 | 1529.5 | 1522.0 | 1511.8 | 1512.7 |
| 10° | 2367.8 | 2264.1 | 1990.5 | 1723.6 | 1559.5 | 1483.5 | 1469.3 | 1479.2 | 1490.9 | 1494.3 | 1495.1 |
| 12.5° | 2381.2 | 2242.3 | 1867.4 | 1573.0 | 1449.1 | 1425.7 | 1450.0 | 1484.3 | 1506.8 | 1517.7 | 1516.9 |
| 15° | 2411.3 | 2225.6 | 1749.4 | 1455.1 | 1388.2 | 1400.6 | 1445.8 | 1494.3 | 1526.9 | 1542.0 | 1542.8 |
| 17.5° | 2444.0 | 2201.3 | 1628.2 | 1364.6 | 1342.8 | 1374.6 | 1430.7 | 1487.7 | 1527.7 | 1544.5 | 1547.9 |
| 20° | 2486.7 | 2171.3 | 1501.0 | 1296.9 | 1300.2 | 1336.1 | 1388.9 | 1445.8 | 1490.2 | 1504.4 | 1511.0 |
| 22.5° | 2542.7 | 2138.5 | 1389.8 | 1241.6 | 1251.7 | 1279.2 | 1320.2 | 1369.6 | 1408.2 | 1414.8 | 1420.7 |
| 25° | 2618.0 | 2103.4 | 1301.0 | 1191.4 | 1195.6 | 1211.5 | 1239.1 | 1268.4 | 1295.1 | 1287.7 | 1293.5 |
| 27.5° | 2719.3 | 2073.3 | 1235.0 | 1145.3 | 1138.0 | 1141.2 | 1155.5 | 1164.7 | 1178.8 | 1157.9 | 1160.5 |
| 30° | 2838.0 | 2040.7 | 1184.0 | 1105.3 | 1084.3 | 1078.4 | 1081.9 | 1086.9 | 1097.8 | 1069.3 | 1065.1 |
| 32.5° | 2976.2 | 2001.3 | 1136.3 | 1070.2 | 1040.9 | 1029.1 | 1030.8 | 1044.2 | 1086.1 | 1068.4 | 1059.2 |
| 35° | 3136.7 | 1957.0 | 1086.1 | 1031.7 | 1011.5 | 994.9 | 993.2 | 1034.9 | 1159.6 | 1148.8 | 1140.4 |
| 37.5° | 3325.0 | 1912.8 | 1035.8 | 988.1 | 989.8 | 971.3 | 965.6 | 1013.3 | 1173.8 | 1131.2 | 1125.3 |
| 40° | 3564.4 | 1889.2 | 993.2 | 942.1 | 963.1 | 960.5 | 948.8 | 973.0 | 1080.2 | 1002.4 | 992.3 |
| 42.5° | 3860.5 | 1892.5 | 961.4 | 892.7 | 931.3 | 958.0 | 939.5 | 940.4 | 979.0 | 920.4 | 911.2 |
| 45° | 4226.2 | 1932.0 | 938.8 | 853.4 | 895.3 | 955.4 | 936.3 | 922.9 | 926.2 | 895.3 | 890.2 |
| 47.5° | 4652.9 | 2013.1 | 922.9 | 820.8 | 860.9 | 946.4 | 935.5 | 917.9 | 910.3 | 893.5 | 889.4 |
| 50° | 5127.3 | 2131.0 | 911.2 | 789.8 | 830.0 | 931.3 | 936.3 | 912.9 | 904.5 | 897.8 | 895.3 |
| 52.5° | 5593.2 | 2265.7 | 893.5 | 763.1 | 805.7 | 912.9 | 938.8 | 907.7 | 898.7 | 893.5 | 891.1 |
| 55° | 6112.8 | 2434.0 | 866.9 | 740.5 | 785.7 | 889.4 | 938.8 | 900.3 | 890.2 | 891.1 | 890.2 |
| 57.5° | 6814.8 | 2705.9 | 835.1 | 721.2 | 761.5 | 860.9 | 922.9 | 891.8 | 879.4 | 880.2 | 881.1 |
| 60° | 7911.7 | 3185.3 | 796.5 | 701.9 | 731.3 | 827.5 | 901.1 | 873.5 | 860.9 | 864.3 | 865.2 |
| 62.5° | 9524.9 | 3888.9 | 746.3 | 673.5 | 699.5 | 791.4 | 870.9 | 850.1 | 837.5 | 845.9 | 845.9 |
| 65° | 11201.7 | 4509.9 | 684.4 | 637.5 | 666.1 | 752.2 | 833.4 | 820.8 | 808.2 | 827.5 | 826.6 |
| 67.5° | 11652.6 | 4371.0 | 622.4 | 598.2 | 632.5 | 708.7 | 788.2 | 781.4 | 774.8 | 808.2 | 806.6 |
| 70° | 10351.6 | 3509.0 | 565.7 | 558.0 | 595.8 | 661.8 | 739.7 | 739.7 | 735.4 | 760.5 | 754.7 |
| 72.5° | 7886.7 | 2488.3 | 511.2 | 515.4 | 553.9 | 610.8 | 686.9 | 692.9 | 686.0 | 698.6 | 693.6 |
| 75° | 4221.9 | 1424.1 | 456.9 | 468.6 | 502.1 | 558.9 | 628.4 | 634.3 | 630.0 | 629.3 | 631.7 |
| 77.5° | 1403.2 | 696.1 | 399.9 | 418.3 | 447.6 | 505.3 | 567.3 | 576.5 | 566.4 | 564.8 | 564.0 |
| 80° | 625.0 | 437.6 | 337.1 | 361.5 | 387.3 | 444.3 | 502.8 | 510.3 | 499.5 | 514.5 | 495.3 |
| 82.5° | 401.6 | 287.8 | 270.3 | 297.0 | 322.1 | 383.1 | 438.5 | 440.1 | 430.1 | 499.5 | 425.8 |
| 85° | 194.9 | 178.3 | 203.3 | 227.6 | 249.3 | 301.2 | 363.2 | 364.0 | 338.9 | 308.7 | 297.9 |
| 87.5° | 97.0 | 103.8 | 135.6 | 157.4 | 168.2 | 206.7 | 264.5 | 259.4 | 248.6 | 226.0 | 208.3 |
| 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)