

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: P477169

Luminaire Tested: **IFLD-L-SA7C-830-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477169
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-830-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

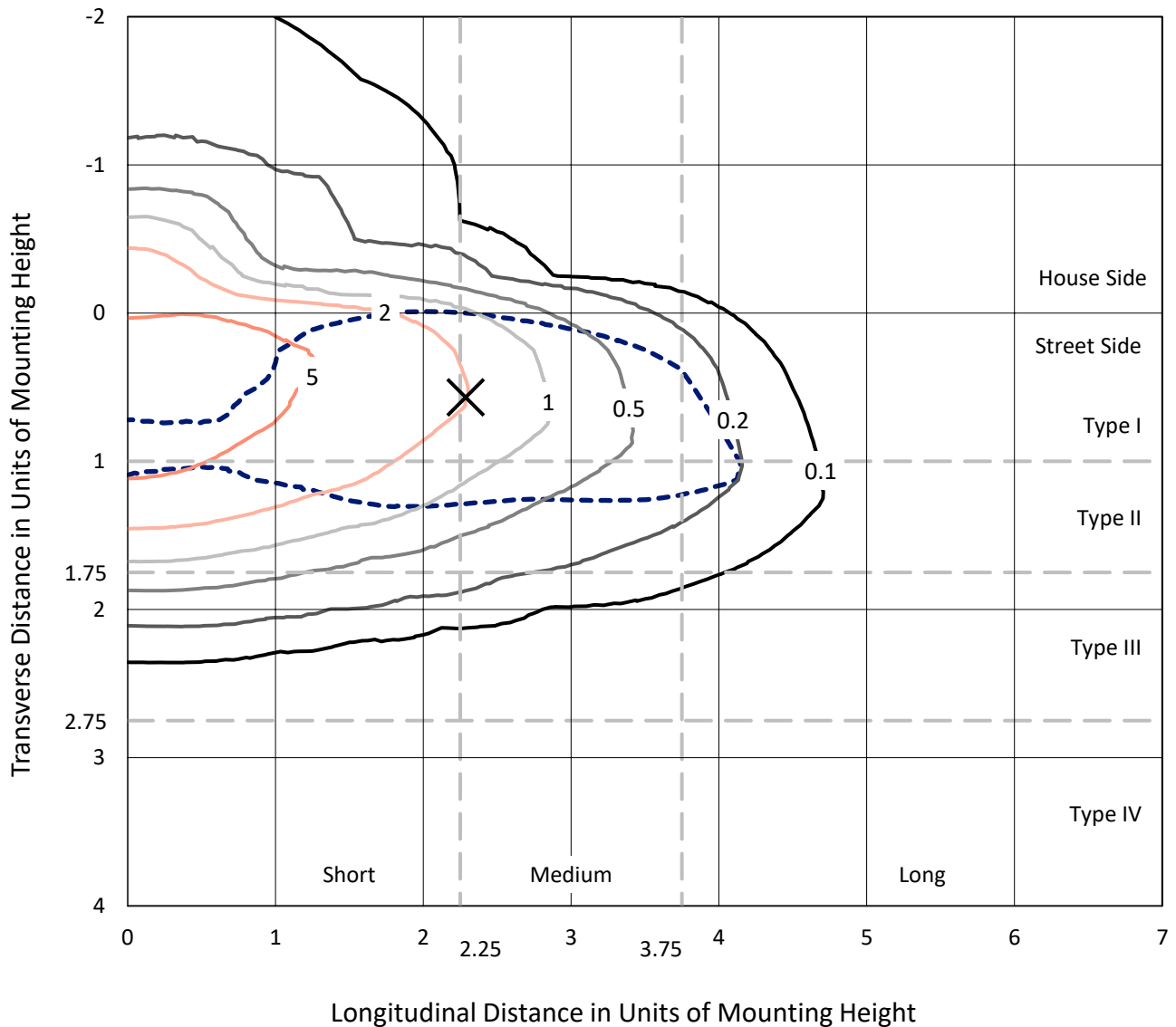
Lumens per Lamp: N/A
Luminaire Lumens: 35423.3 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 369
Input Voltage (V): 120
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

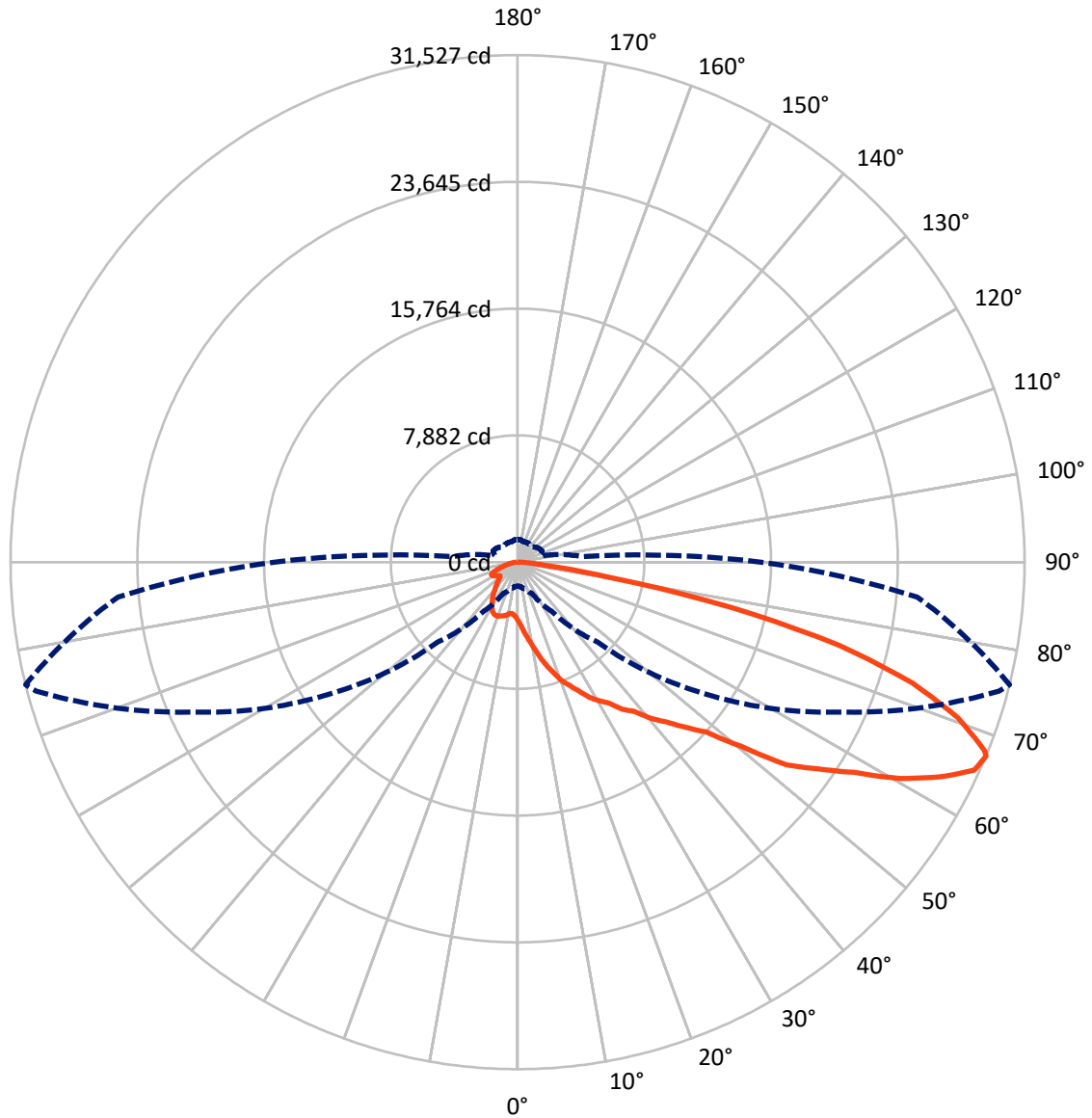
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5039.4 | 0.0 | 5039.4 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 30383.9 | 0.0 | 30383.9 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 35423.3 | 0.0 | 35423.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 419.9 | 1.2 |
| 10°-20° | 1574.9 | 4.4 |
| 20°-30° | 2927.9 | 8.3 |
| 30°-40° | 4641.4 | 13.1 |
| 40°-50° | 6419.4 | 18.1 |
| 50°-60° | 7896.3 | 22.3 |
| 60°-70° | 7347.9 | 20.7 |
| 70°-80° | 3687.1 | 10.4 |
| 80°-90° | 508.4 | 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° | 35423.3 | 100.0 |
| 0°-180° | 35423.3 | 100.0 |

Coefficient of Utilization



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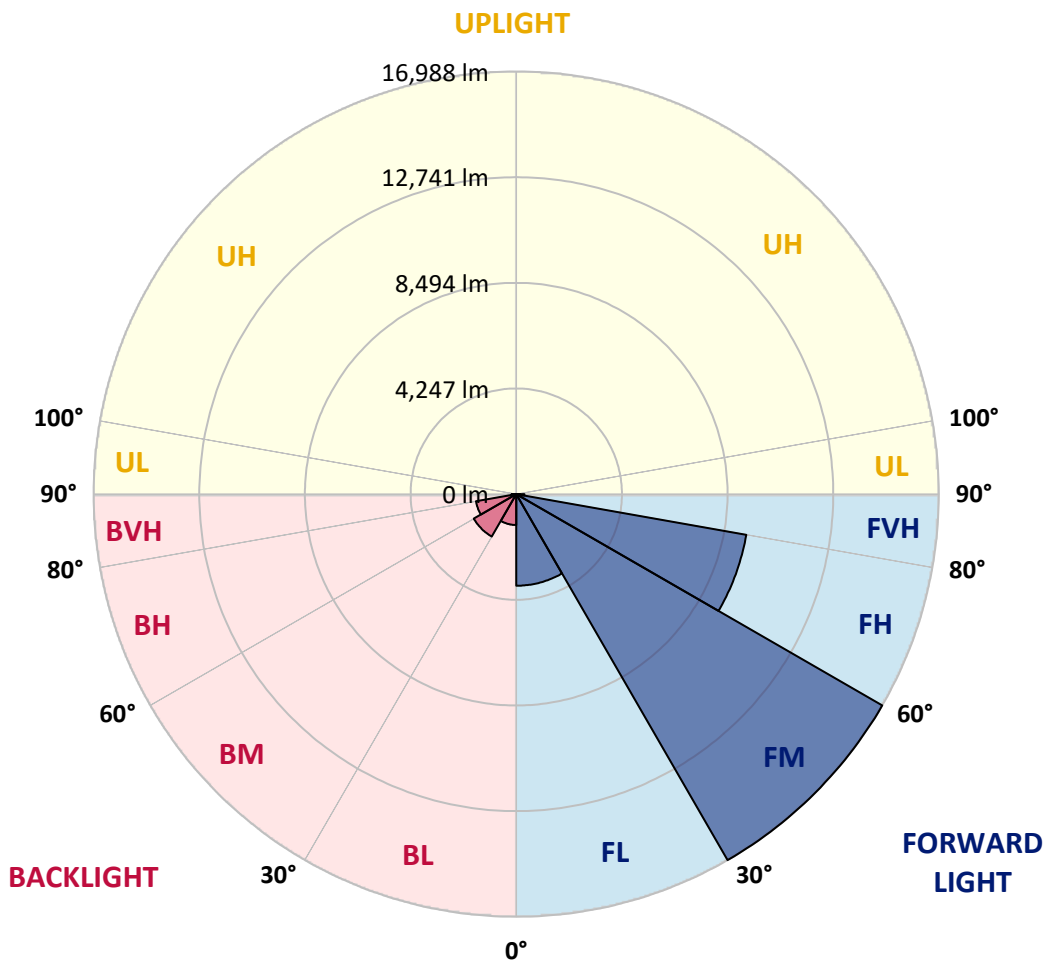
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3681.7 | 10.4 | | | |
| FM (30°-60°) | 16987.9 | 48.0 | | | |
| FH (60°-80°) | 9390.4 | 26.5 | | | G4/12000 |
| FVH (80°-90°) | 323.9 | 0.9 | | | G3/500 |
| BL (0°-30°) | 1241.0 | 3.5 | B3/2500 | | |
| BM (30°-60°) | 1969.3 | 5.6 | B2/2500 | | |
| BH (60°-80°) | 1644.6 | 4.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 184.5 | 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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3625.0 | 3625.0 | 3625.0 | 3625.0 | 3625.0 | 3625.0 | 3625.0 | 3625.0 | 3625.0 | 3625.0 | 3625.0 |
| 2.5° | 5029.8 | 4969.3 | 4908.7 | 4779.5 | 4735.1 | 4614.0 | 4392.0 | 4145.8 | 3943.9 | 3915.7 | 3774.4 |
| 5° | 6240.9 | 6152.1 | 6131.9 | 6059.2 | 5829.1 | 5595.0 | 5231.7 | 4836.1 | 4343.6 | 4379.9 | 3895.5 |
| 7.5° | 7149.1 | 7096.7 | 6987.7 | 6919.0 | 6781.8 | 6471.0 | 6095.5 | 5570.8 | 4945.1 | 4824.0 | 4166.0 |
| 10° | 7835.4 | 7762.7 | 7758.7 | 7698.1 | 7625.5 | 7306.6 | 7020.0 | 6313.5 | 5510.2 | 5344.7 | 4497.0 |
| 12.5° | 8182.6 | 8170.4 | 8384.4 | 8384.4 | 8356.1 | 8222.9 | 7730.4 | 7084.6 | 6047.1 | 5990.6 | 4880.5 |
| 15° | 8558.0 | 8457.1 | 8642.8 | 8784.0 | 8856.7 | 8925.3 | 8517.6 | 7835.4 | 6733.4 | 6624.4 | 5292.2 |
| 17.5° | 8558.0 | 8549.9 | 8735.6 | 8969.7 | 9349.2 | 9438.0 | 9216.0 | 8525.7 | 7302.5 | 7221.8 | 5744.3 |
| 20° | 8412.7 | 8529.7 | 8658.9 | 8973.8 | 9385.5 | 9744.8 | 9809.4 | 9232.1 | 7932.3 | 7867.7 | 6257.0 |
| 22.5° | 9090.8 | 8977.8 | 9111.0 | 9232.1 | 9551.0 | 10096.0 | 10273.6 | 9853.8 | 8594.3 | 8348.1 | 6721.2 |
| 25° | 10229.2 | 10152.5 | 10055.6 | 9878.0 | 10011.2 | 10249.4 | 10519.9 | 10314.0 | 9159.5 | 8885.0 | 7169.3 |
| 27.5° | 11339.3 | 11343.4 | 11133.4 | 10745.9 | 10459.3 | 10507.7 | 10826.6 | 10717.7 | 9635.8 | 9514.7 | 7476.1 |
| 30° | 12917.7 | 12820.8 | 12586.7 | 12061.9 | 11500.8 | 11040.6 | 10988.1 | 11093.1 | 10241.3 | 10007.2 | 7916.1 |
| 32.5° | 14100.5 | 14120.7 | 13789.6 | 13034.8 | 12267.8 | 11892.4 | 11432.2 | 11476.6 | 10624.8 | 10451.2 | 8267.3 |
| 35° | 15057.2 | 15033.0 | 14798.8 | 14173.1 | 13264.9 | 12812.7 | 12191.1 | 11936.8 | 11516.9 | 11242.4 | 8804.2 |
| 37.5° | 16090.6 | 15892.8 | 15513.4 | 14806.9 | 14225.6 | 13599.9 | 12994.4 | 12421.2 | 12110.3 | 11779.3 | 9264.4 |
| 40° | 16506.4 | 16506.4 | 15997.8 | 15674.8 | 14984.5 | 14512.2 | 14120.7 | 13059.0 | 12832.9 | 12768.3 | 9853.8 |
| 42.5° | 16211.7 | 16393.4 | 16183.5 | 15816.1 | 15533.5 | 14936.1 | 14831.1 | 13721.0 | 13725.1 | 13595.9 | 10560.2 |
| 45° | 16183.5 | 15933.2 | 15759.6 | 15852.4 | 15719.2 | 15686.9 | 15953.4 | 14637.4 | 14661.6 | 14645.4 | 11508.9 |
| 47.5° | 15372.1 | 15259.0 | 15517.4 | 15670.8 | 15779.8 | 16280.3 | 17047.3 | 15731.3 | 15904.9 | 15783.8 | 12602.8 |
| 50° | 14564.7 | 14544.5 | 14706.0 | 15263.1 | 15735.4 | 16558.9 | 18088.8 | 17418.7 | 17987.9 | 17979.8 | 14584.9 |
| 52.5° | 12352.6 | 12566.5 | 13200.3 | 14379.0 | 15545.6 | 16938.3 | 18876.0 | 19574.4 | 20660.3 | 20954.9 | 16227.9 |
| 55° | 10237.3 | 10124.2 | 11060.8 | 12772.4 | 14718.1 | 17087.7 | 19756.0 | 20870.2 | 22468.7 | 22682.7 | 17915.2 |
| 57.5° | 7964.6 | 8174.5 | 8913.2 | 10556.2 | 13006.5 | 16349.0 | 20401.9 | 22149.8 | 24511.3 | 24676.8 | 19873.1 |
| 60° | 5942.1 | 5970.4 | 6781.8 | 8105.9 | 10729.8 | 14681.8 | 20611.8 | 23461.8 | 26852.7 | 27325.0 | 21923.8 |
| 62.5° | 3738.1 | 3907.6 | 4525.2 | 5829.1 | 8077.6 | 12348.5 | 19671.2 | 24257.0 | 29307.0 | 29432.2 | 23990.6 |
| 65° | 2014.4 | 2123.3 | 2587.6 | 3407.0 | 5643.4 | 9341.1 | 17176.5 | 23780.7 | 30461.6 | 31204.3 | 24911.0 |
| 67° | 1489.6 | 1509.8 | 1723.7 | 2175.8 | 3774.4 | 7032.1 | 14322.5 | 22057.0 | 30986.3 | 31527.3 | 24947.3 |
| 67.5° | 1396.7 | 1425.0 | 1594.5 | 1953.8 | 3346.5 | 6475.0 | 13575.7 | 21443.4 | 30752.2 | 31333.5 | 24664.7 |
| 70° | 1194.9 | 1203.0 | 1243.3 | 1344.2 | 1877.1 | 3895.5 | 9244.2 | 17572.1 | 28503.7 | 29060.8 | 22682.7 |
| 72.5° | 1061.7 | 1069.7 | 1085.9 | 1106.1 | 1271.6 | 2252.5 | 5623.2 | 13523.2 | 24773.7 | 25661.8 | 19570.3 |
| 75° | 932.5 | 960.8 | 968.8 | 952.7 | 1081.9 | 1465.4 | 2991.3 | 9938.6 | 20208.1 | 20640.1 | 15218.7 |
| 77.5° | 791.2 | 803.3 | 819.5 | 835.6 | 964.8 | 1094.0 | 1437.1 | 6709.1 | 13870.4 | 13608.0 | 8231.0 |
| 80° | 666.1 | 670.1 | 682.2 | 694.3 | 835.6 | 835.6 | 815.4 | 3625.0 | 6059.2 | 5792.8 | 2781.3 |
| 82.5° | 476.3 | 504.6 | 532.9 | 565.1 | 694.3 | 561.1 | 532.9 | 1614.7 | 1917.5 | 1824.6 | 940.6 |
| 85° | 185.7 | 226.1 | 351.2 | 387.5 | 440.0 | 302.8 | 355.2 | 698.4 | 799.3 | 791.2 | 351.2 |
| 87.5° | 32.3 | 36.3 | 96.9 | 149.4 | 161.5 | 105.0 | 169.5 | 250.3 | 298.7 | 322.9 | 129.2 |
| 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° | 3625.0 | 3625.0 | 3625.0 | 3625.0 | 3625.0 | 3625.0 | 3625.0 | 3625.0 | 3625.0 | 3625.0 | 3625.0 |
| 2.5° | 3657.3 | 3532.2 | 3382.8 | 3233.5 | 3136.6 | 2983.2 | 2971.1 | 2878.2 | 2866.1 | 2833.8 | 2850.0 |
| 5° | 3685.6 | 3536.2 | 3233.5 | 2995.3 | 2886.3 | 2797.5 | 2817.7 | 2777.3 | 2765.2 | 2745.0 | 2712.7 |
| 7.5° | 3907.6 | 3612.9 | 3160.8 | 2954.9 | 2874.2 | 2833.8 | 2833.8 | 2785.4 | 2749.0 | 2773.3 | 2797.5 |
| 10° | 4052.9 | 3649.3 | 3217.3 | 3011.4 | 2946.9 | 2858.0 | 2890.3 | 2829.8 | 2850.0 | 2801.5 | 2801.5 |
| 12.5° | 4287.1 | 3855.1 | 3334.4 | 3096.2 | 2991.3 | 2910.5 | 2942.8 | 2874.2 | 2858.0 | 2862.1 | 2850.0 |
| 15° | 4601.9 | 3992.4 | 3386.9 | 3144.7 | 3072.0 | 2971.1 | 2946.9 | 2886.3 | 2825.7 | 2805.6 | 2829.8 |
| 17.5° | 4896.6 | 4161.9 | 3423.2 | 3172.9 | 3055.8 | 2942.8 | 2914.6 | 2837.9 | 2817.7 | 2757.1 | 2708.7 |
| 20° | 5247.8 | 4363.8 | 3471.6 | 3197.1 | 2995.3 | 2882.3 | 2809.6 | 2732.9 | 2664.3 | 2627.9 | 2644.1 |
| 22.5° | 5482.0 | 4468.7 | 3495.9 | 3148.7 | 2906.5 | 2801.5 | 2648.1 | 2595.7 | 2498.8 | 2458.4 | 2426.1 |
| 25° | 5865.4 | 4597.9 | 3435.3 | 3015.5 | 2749.0 | 2579.5 | 2442.3 | 2369.6 | 2301.0 | 2248.5 | 2232.3 |
| 27.5° | 5962.3 | 4694.8 | 3294.0 | 2789.4 | 2498.8 | 2321.1 | 2204.1 | 2115.3 | 2070.9 | 1990.1 | 1974.0 |
| 30° | 6244.9 | 4597.9 | 3084.1 | 2514.9 | 2260.6 | 2078.9 | 1961.9 | 1897.3 | 1792.3 | 1772.1 | 1727.7 |
| 32.5° | 6426.6 | 4626.2 | 2817.7 | 2248.5 | 1986.1 | 1824.6 | 1747.9 | 1683.3 | 1655.1 | 1558.2 | 1534.0 |
| 35° | 6729.3 | 4529.3 | 2547.2 | 2002.2 | 1760.0 | 1634.9 | 1570.3 | 1550.1 | 1457.3 | 1412.9 | 1372.5 |
| 37.5° | 6923.1 | 4472.8 | 2276.7 | 1723.7 | 1513.8 | 1461.3 | 1481.5 | 1396.7 | 1283.7 | 1198.9 | 1170.7 |
| 40° | 7262.2 | 4452.6 | 1969.9 | 1493.6 | 1344.2 | 1332.1 | 1396.7 | 1235.3 | 1029.4 | 956.7 | 916.3 |
| 42.5° | 7750.6 | 4315.3 | 1731.8 | 1287.7 | 1211.0 | 1263.5 | 1275.6 | 1029.4 | 912.3 | 851.8 | 823.5 |
| 45° | 8218.9 | 4343.6 | 1497.6 | 1065.7 | 1053.6 | 1130.3 | 1102.0 | 871.9 | 803.3 | 758.9 | 783.1 |
| 47.5° | 9119.1 | 4484.9 | 1267.5 | 888.1 | 948.6 | 1021.3 | 855.8 | 779.1 | 714.5 | 682.2 | 686.3 |
| 50° | 10511.8 | 4622.1 | 1065.7 | 811.4 | 896.2 | 924.4 | 734.7 | 706.4 | 702.4 | 637.8 | 633.8 |
| 52.5° | 11347.4 | 4569.6 | 1029.4 | 908.3 | 960.8 | 924.4 | 799.3 | 779.1 | 746.8 | 718.5 | 686.3 |
| 55° | 12675.5 | 4723.0 | 1106.1 | 1061.7 | 1089.9 | 888.1 | 896.2 | 888.1 | 863.9 | 791.2 | 811.4 |
| 57.5° | 13733.1 | 4824.0 | 1207.0 | 1186.8 | 1170.7 | 924.4 | 936.5 | 940.6 | 924.4 | 892.1 | 920.4 |
| 60° | 15186.4 | 5025.8 | 1312.0 | 1316.0 | 1320.0 | 1005.2 | 1025.3 | 1049.6 | 1045.5 | 1033.4 | 1041.5 |
| 62.5° | 16078.5 | 4932.9 | 1429.0 | 1493.6 | 1473.4 | 1170.7 | 1166.6 | 1182.8 | 1182.8 | 1203.0 | 1215.1 |
| 65° | 15945.3 | 4589.8 | 1489.6 | 1651.0 | 1546.1 | 1291.8 | 1291.8 | 1299.8 | 1303.9 | 1344.2 | 1348.3 |
| 67° | 15146.0 | 3976.2 | 1457.3 | 1675.3 | 1546.1 | 1340.2 | 1340.2 | 1348.3 | 1320.0 | 1425.0 | 1392.7 |
| 67.5° | 14774.6 | 3794.6 | 1429.0 | 1655.1 | 1534.0 | 1336.2 | 1336.2 | 1340.2 | 1316.0 | 1416.9 | 1384.6 |
| 70° | 12849.1 | 2817.7 | 1231.2 | 1465.4 | 1420.9 | 1299.8 | 1299.8 | 1275.6 | 1255.4 | 1388.7 | 1360.4 |
| 72.5° | 10967.9 | 2046.6 | 989.0 | 1247.4 | 1283.7 | 1251.4 | 1259.5 | 1198.9 | 1142.4 | 1235.3 | 1211.0 |
| 75° | 8400.5 | 1505.7 | 771.0 | 960.8 | 1085.9 | 1170.7 | 1223.1 | 1069.7 | 997.1 | 1021.3 | 976.9 |
| 77.5° | 4686.7 | 980.9 | 609.6 | 710.5 | 827.5 | 1089.9 | 1174.7 | 964.8 | 815.4 | 787.2 | 787.2 |
| 80° | 1590.5 | 573.2 | 448.1 | 528.8 | 569.2 | 964.8 | 1098.0 | 783.1 | 641.8 | 613.6 | 593.4 |
| 82.5° | 601.5 | 351.2 | 306.8 | 363.3 | 363.3 | 763.0 | 896.2 | 601.5 | 484.4 | 625.7 | 637.8 |
| 85° | 274.5 | 209.9 | 201.8 | 209.9 | 209.9 | 468.3 | 633.8 | 391.6 | 436.0 | 375.4 | 331.0 |
| 87.5° | 109.0 | 100.9 | 92.8 | 88.8 | 72.7 | 80.7 | 218.0 | 105.0 | 197.8 | 52.5 | 48.4 |
| 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)