

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: McGRAW-EDISON

Report Number: P455849

Luminaire Tested: **GALN-SA7A-750-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455849
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: MCGRAW-EDISON
Catalog Number: GALN-SA7A-750-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32164 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

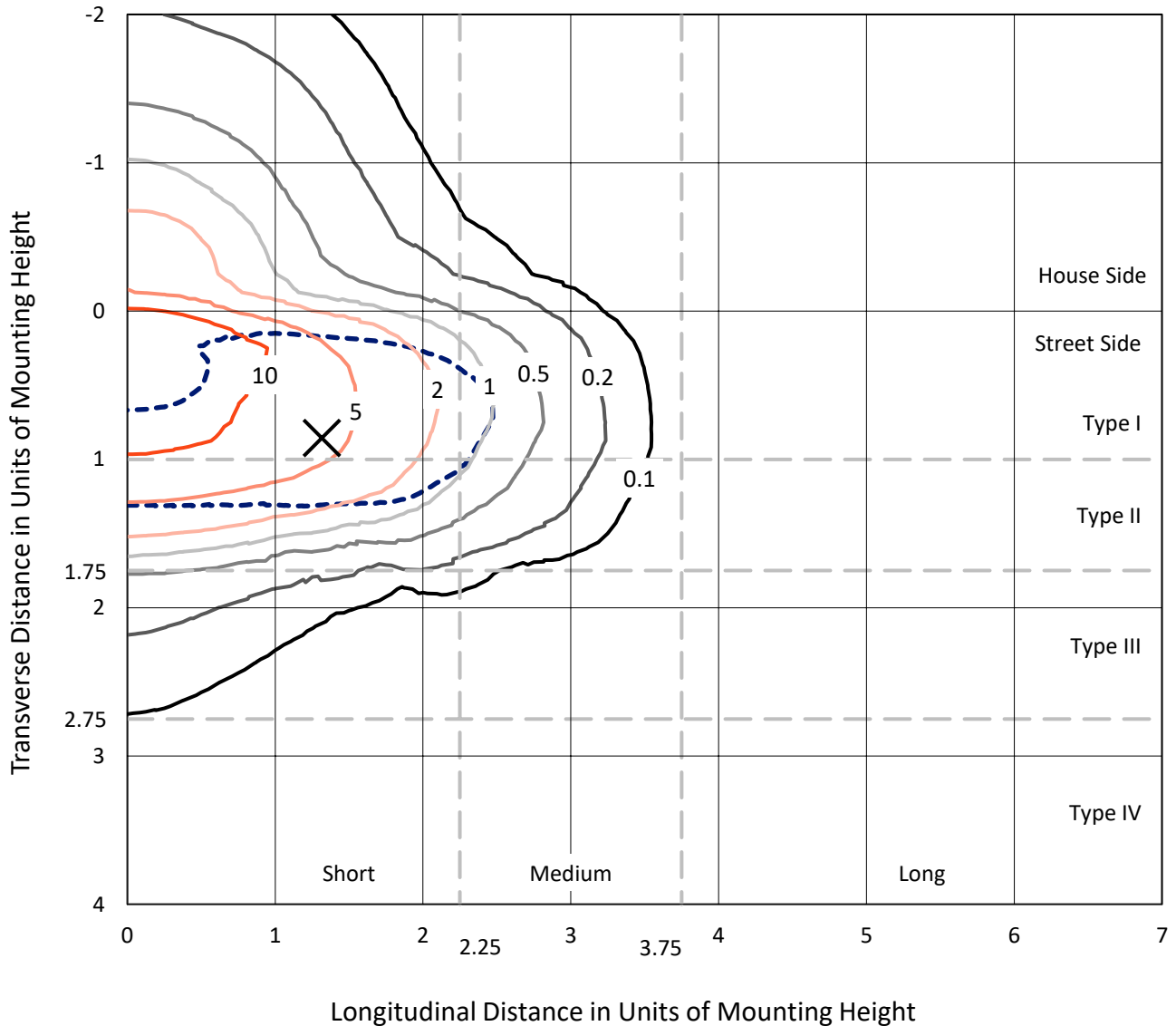
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

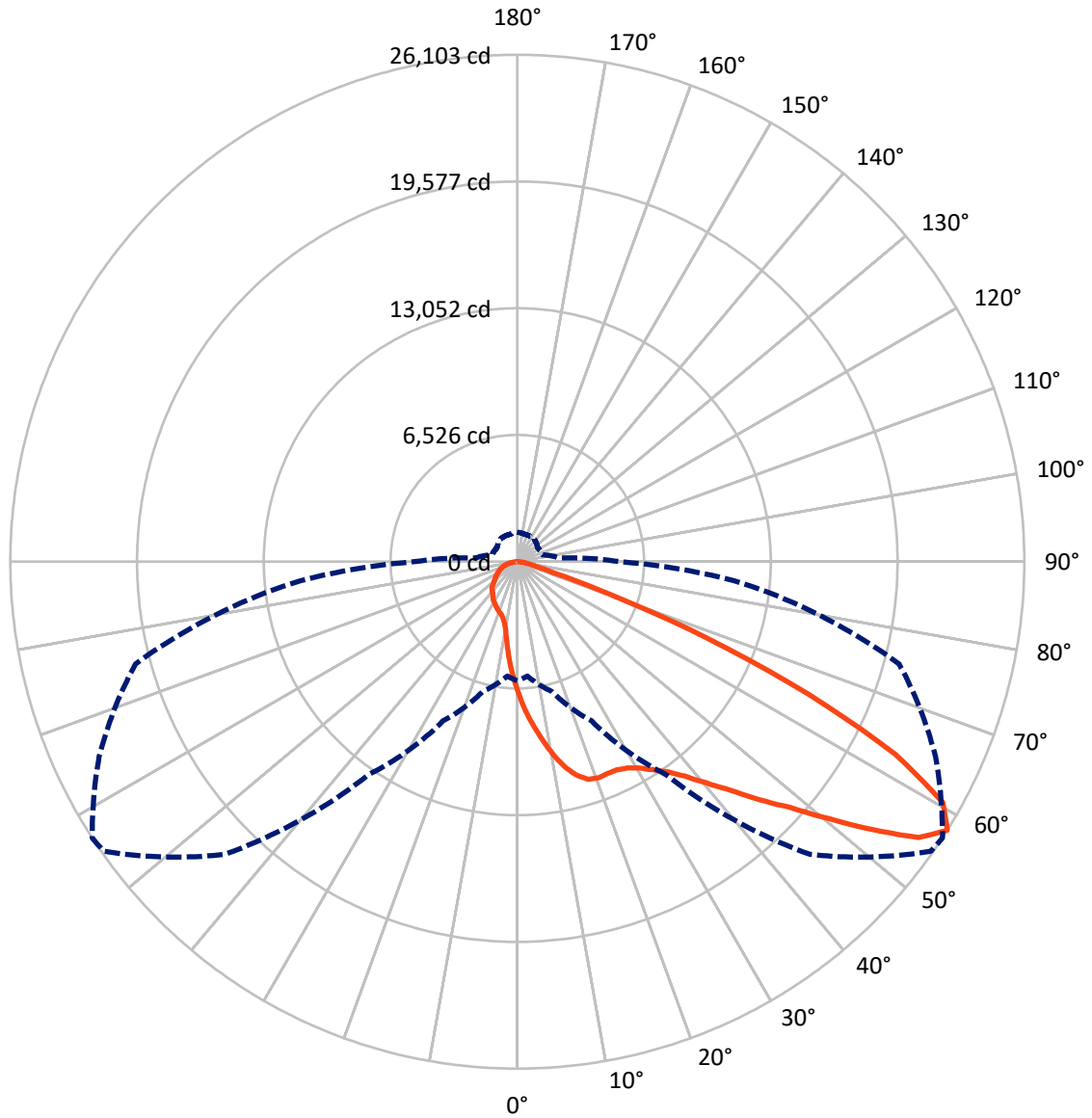
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 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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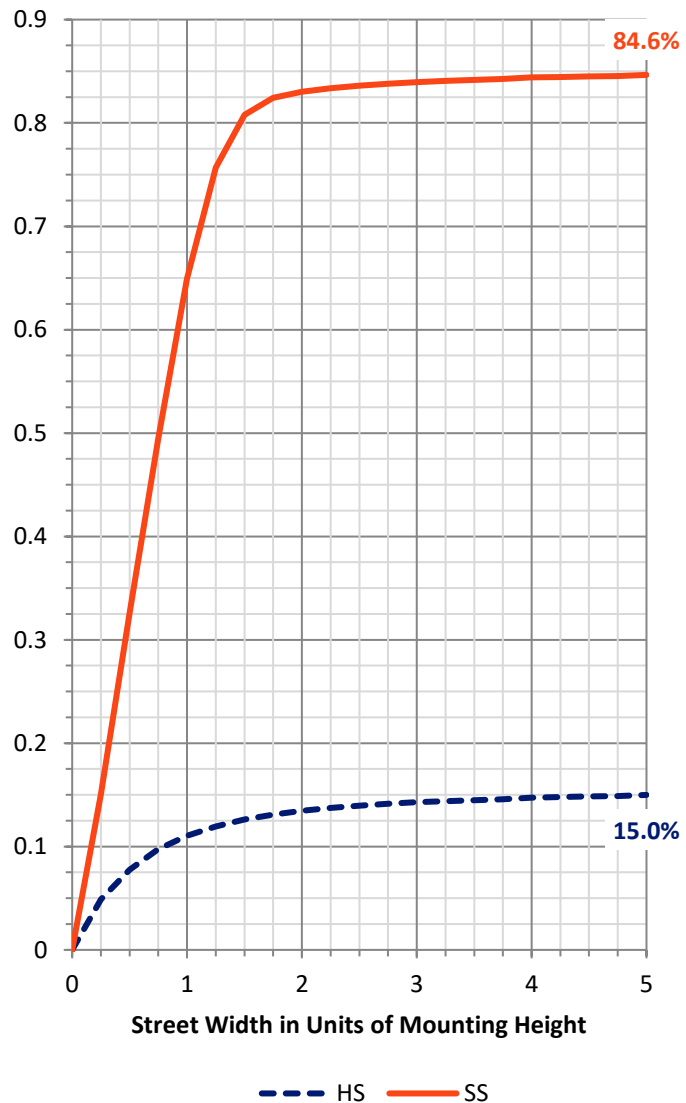
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4891.2 | 0.0 | 4891.2 |
| | % Fixture | 15.2 | 0.0 | 15.2 |
| Street Side | Lumens | 27272.8 | 0.0 | 27272.8 |
| | % Fixture | 84.8 | 0.0 | 84.8 |
| Total | Lumens | 32164.0 | 0.0 | 32164.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 649.4 | 2.0 |
| 10°-20° | 1913.9 | 6.0 |
| 20°-30° | 3178.1 | 9.9 |
| 30°-40° | 4787.2 | 14.9 |
| 40°-50° | 7187.5 | 22.3 |
| 50°-60° | 8056.3 | 25.0 |
| 60°-70° | 4714.9 | 14.7 |
| 70°-80° | 1394.6 | 4.3 |
| 80°-90° | 281.9 | 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° | 32164.0 | 100.0 |
| 0°-180° | 32164.0 | 100.0 |



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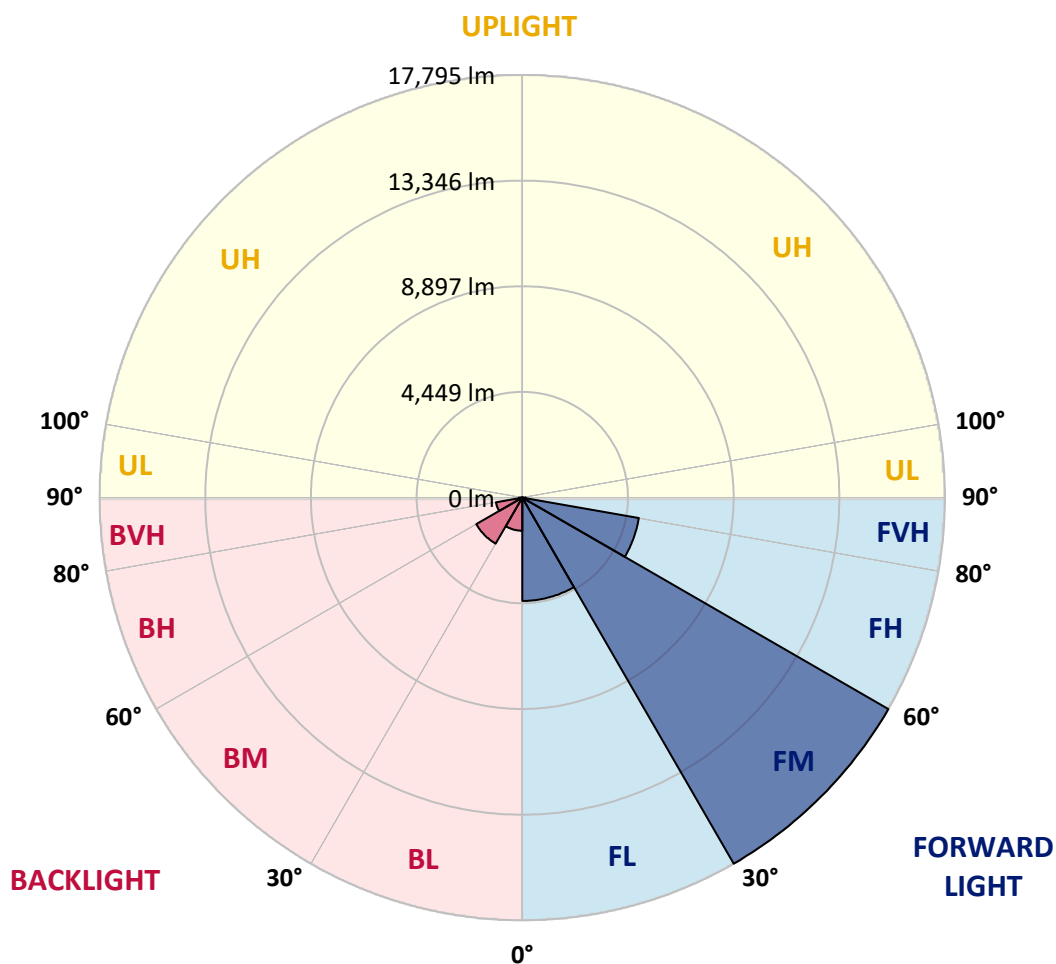
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 4347.8 | 13.5 | | | |
| FM | (30°-60°) | 17794.5 | 55.3 | | | |
| FH | (60°-80°) | 4984.1 | 15.5 | | | G2/5000 |
| FVH | (80°-90°) | 146.3 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 1393.7 | 4.3 | B3/2500 | | |
| BM | (30°-60°) | 2236.5 | 7.0 | B2/2500 | | |
| BH | (60°-80°) | 1125.5 | 3.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 135.6 | 0.4 | | | 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6757.3 | 6757.3 | 6757.3 | 6757.3 | 6757.3 | 6757.3 | 6757.3 | 6757.3 | 6757.3 | 6757.3 | 6757.3 |
| 2.5° | 8396.4 | 8304.9 | 8232.7 | 8169.3 | 8086.6 | 7863.0 | 7639.4 | 7635.8 | 7458.0 | 7183.4 | 6901.7 |
| 5° | 9764.4 | 9641.2 | 9657.0 | 9459.9 | 9262.7 | 8938.7 | 8465.1 | 8440.4 | 8061.9 | 7547.8 | 7024.9 |
| 7.5° | 10655.3 | 10657.1 | 10607.8 | 10495.1 | 10282.1 | 9914.1 | 9377.1 | 9255.6 | 8729.2 | 7949.2 | 7165.8 |
| 10° | 10609.5 | 10657.1 | 10739.8 | 10836.7 | 10901.8 | 10720.5 | 10231.0 | 10083.1 | 9398.2 | 8435.2 | 7322.4 |
| 12.5° | 10000.4 | 10074.3 | 10192.3 | 10435.2 | 10827.9 | 11127.2 | 10959.9 | 10840.2 | 10172.9 | 8919.3 | 7495.0 |
| 15° | 9620.1 | 9664.1 | 9729.2 | 9893.0 | 10315.5 | 11032.1 | 11465.2 | 11401.8 | 10903.6 | 9466.9 | 7688.7 |
| 17.5° | 9503.9 | 9547.9 | 9569.0 | 9669.4 | 9970.4 | 10704.6 | 11664.2 | 11776.8 | 11551.5 | 9970.4 | 7884.1 |
| 20° | 9620.1 | 9641.2 | 9641.2 | 9701.1 | 9937.0 | 10512.7 | 11655.4 | 11882.5 | 12083.2 | 10574.3 | 8067.2 |
| 22.5° | 9924.7 | 9933.5 | 9921.1 | 9942.3 | 10118.3 | 10565.5 | 11572.6 | 11854.3 | 12512.8 | 11086.7 | 8209.8 |
| 25° | 10419.4 | 10433.5 | 10352.5 | 10303.2 | 10431.7 | 10797.9 | 11618.4 | 11877.2 | 12849.1 | 11576.1 | 8304.9 |
| 27.5° | 10981.0 | 10998.6 | 10900.0 | 10785.6 | 10845.5 | 11084.9 | 11798.0 | 12030.4 | 13100.8 | 12058.5 | 8364.7 |
| 30° | 11669.4 | 11676.5 | 11511.0 | 11373.7 | 11334.9 | 11512.7 | 12104.3 | 12320.9 | 13414.2 | 12627.2 | 8454.5 |
| 32.5° | 12373.7 | 12426.5 | 12213.5 | 12019.8 | 11954.7 | 12009.2 | 12556.8 | 12766.3 | 13787.5 | 13238.2 | 8598.9 |
| 35° | 13331.5 | 13340.3 | 13085.0 | 12849.1 | 12634.3 | 12704.7 | 13136.0 | 13287.5 | 14303.3 | 13944.2 | 8803.1 |
| 37.5° | 14526.9 | 14607.9 | 14255.8 | 13815.6 | 13551.5 | 13449.4 | 13836.8 | 14002.3 | 15027.0 | 14810.4 | 9111.2 |
| 40° | 15854.5 | 15884.4 | 15583.3 | 15308.7 | 14826.2 | 14530.5 | 14798.1 | 14977.7 | 15919.6 | 15843.9 | 9468.7 |
| 42.5° | 16689.0 | 16754.1 | 16777.0 | 16748.8 | 16386.2 | 15889.7 | 15991.8 | 16076.3 | 16976.0 | 16814.0 | 9834.9 |
| 45° | 16970.7 | 17067.5 | 17395.0 | 18088.7 | 18127.4 | 17638.0 | 17400.3 | 17481.3 | 18127.4 | 17792.9 | 10185.2 |
| 47.5° | 16504.1 | 16669.6 | 17273.5 | 18696.1 | 19761.3 | 19798.3 | 19081.7 | 18903.9 | 19176.8 | 18604.6 | 10438.8 |
| 50° | 15298.1 | 15333.3 | 16257.6 | 18317.6 | 20527.2 | 21863.5 | 21122.2 | 20791.2 | 20173.3 | 19204.9 | 10613.1 |
| 52.5° | 13431.8 | 13472.3 | 14247.0 | 16558.7 | 20055.3 | 23307.2 | 23509.7 | 22918.1 | 21185.6 | 19671.5 | 10727.5 |
| 55° | 9970.4 | 10204.6 | 11056.7 | 13291.0 | 17819.3 | 23171.6 | 25407.6 | 25071.3 | 22409.3 | 20041.2 | 10907.1 |
| 57.5° | 6130.5 | 5915.7 | 6926.3 | 9042.6 | 13401.9 | 21308.9 | 25993.9 | 26103.1 | 23756.1 | 20351.1 | 11208.2 |
| 60° | 2820.5 | 2862.8 | 3280.0 | 4663.9 | 8169.3 | 16669.6 | 24483.3 | 25173.5 | 24500.9 | 20340.5 | 11283.9 |
| 62.5° | 1943.7 | 1905.0 | 1799.4 | 2047.6 | 3725.5 | 10542.6 | 20680.3 | 21849.4 | 23007.9 | 19708.5 | 10982.8 |
| 65° | 1737.7 | 1699.0 | 1494.8 | 1426.1 | 1711.3 | 4595.2 | 15034.0 | 16509.4 | 19372.2 | 18113.3 | 10232.8 |
| 67.5° | 1623.3 | 1570.5 | 1359.2 | 1225.4 | 1221.9 | 1829.3 | 8864.8 | 10641.2 | 14368.5 | 15313.9 | 8866.5 |
| 70° | 1503.6 | 1461.3 | 1251.8 | 1103.9 | 1040.5 | 1149.7 | 3896.3 | 5100.5 | 9329.6 | 11035.6 | 6906.9 |
| 72.5° | 1383.9 | 1334.6 | 1146.2 | 987.7 | 905.0 | 860.9 | 1493.0 | 1942.0 | 5271.3 | 6616.4 | 4234.3 |
| 75° | 1209.6 | 1184.9 | 1024.7 | 894.4 | 804.6 | 695.4 | 947.2 | 1081.0 | 2521.2 | 3038.8 | 2125.1 |
| 77.5° | 1058.1 | 1031.7 | 910.2 | 781.7 | 716.6 | 565.2 | 672.6 | 734.2 | 1063.4 | 1232.4 | 959.5 |
| 80° | 774.7 | 801.1 | 767.6 | 690.2 | 639.1 | 443.7 | 452.5 | 503.5 | 632.1 | 699.0 | 586.3 |
| 82.5° | 491.2 | 540.5 | 591.6 | 531.7 | 484.2 | 350.4 | 313.4 | 332.8 | 431.4 | 457.8 | 260.6 |
| 85° | 206.0 | 209.5 | 343.3 | 324.0 | 276.4 | 207.8 | 188.4 | 199.0 | 230.6 | 241.2 | 121.5 |
| 87.5° | 79.2 | 77.5 | 121.5 | 112.7 | 86.3 | 59.9 | 59.9 | 66.9 | 91.6 | 84.5 | 38.7 |
| 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° | 6757.3 | 6757.3 | 6757.3 | 6757.3 | 6757.3 | 6757.3 | 6757.3 | 6757.3 | 6757.3 | 6757.3 | 6757.3 |
| 2.5° | 6780.2 | 6655.2 | 6406.9 | 6098.8 | 5873.5 | 5619.9 | 5396.3 | 5236.1 | 5176.2 | 5148.1 | 5095.3 |
| 5° | 6774.9 | 6528.4 | 6014.3 | 5475.6 | 5042.4 | 4598.8 | 4223.7 | 3980.8 | 3959.7 | 3797.7 | 3781.8 |
| 7.5° | 6776.7 | 6399.9 | 5581.2 | 4788.9 | 4128.7 | 3674.4 | 3364.6 | 3283.6 | 3186.7 | 3162.1 | 3174.4 |
| 10° | 6781.9 | 6236.1 | 5116.4 | 4109.3 | 3470.2 | 3172.7 | 3056.4 | 3024.8 | 3028.3 | 3038.8 | 3040.6 |
| 12.5° | 6789.0 | 6077.7 | 4634.0 | 3593.4 | 3100.5 | 2977.2 | 2964.9 | 2993.1 | 3023.0 | 3045.9 | 3051.2 |
| 15° | 6797.8 | 5896.3 | 4163.9 | 3177.9 | 2915.6 | 2905.0 | 2945.5 | 2993.1 | 3035.3 | 3068.8 | 3074.1 |
| 17.5° | 6787.2 | 5685.1 | 3769.5 | 2922.6 | 2813.5 | 2864.5 | 2931.4 | 2991.3 | 3030.0 | 3061.7 | 3065.3 |
| 20° | 6762.6 | 5449.1 | 3389.2 | 2743.1 | 2750.1 | 2832.8 | 2905.0 | 2961.4 | 3003.6 | 3019.5 | 3031.8 |
| 22.5° | 6667.5 | 5167.4 | 3058.2 | 2604.0 | 2674.4 | 2788.8 | 2875.1 | 2908.6 | 2861.0 | 2827.6 | 2836.4 |
| 25° | 6505.5 | 4801.2 | 2750.1 | 2491.3 | 2605.7 | 2727.2 | 2815.2 | 2734.3 | 2695.5 | 2681.4 | 2688.5 |
| 27.5° | 6303.0 | 4399.8 | 2517.7 | 2373.3 | 2517.7 | 2658.5 | 2633.9 | 2619.8 | 2602.2 | 2579.3 | 2584.6 |
| 30° | 6084.7 | 4007.2 | 2320.5 | 2281.8 | 2422.6 | 2503.6 | 2514.2 | 2537.1 | 2517.7 | 2482.5 | 2496.6 |
| 32.5° | 5882.3 | 3637.5 | 2170.9 | 2204.3 | 2355.7 | 2343.4 | 2422.6 | 2449.0 | 2359.2 | 2241.3 | 2246.6 |
| 35° | 5709.7 | 3294.1 | 2058.2 | 2128.6 | 2241.3 | 2246.6 | 2325.8 | 2234.2 | 2137.4 | 2081.1 | 2084.6 |
| 37.5° | 5579.4 | 3026.5 | 1984.2 | 2063.5 | 2095.1 | 2162.1 | 2119.8 | 2072.3 | 2059.9 | 2021.2 | 2023.0 |
| 40° | 5502.0 | 2792.4 | 1936.7 | 2012.4 | 2007.1 | 2052.9 | 1917.3 | 1964.9 | 1982.5 | 1970.1 | 1971.9 |
| 42.5° | 5424.5 | 2626.9 | 1887.4 | 1942.0 | 1940.2 | 1850.4 | 1820.5 | 1861.0 | 1906.8 | 1912.0 | 1908.5 |
| 45° | 5362.9 | 2498.3 | 1836.3 | 1834.6 | 1869.8 | 1728.9 | 1720.1 | 1744.8 | 1809.9 | 1841.6 | 1839.9 |
| 47.5° | 5294.2 | 2390.9 | 1758.9 | 1709.6 | 1720.1 | 1653.2 | 1639.1 | 1649.7 | 1728.9 | 1780.0 | 1794.1 |
| 50° | 5207.9 | 2283.5 | 1662.0 | 1595.1 | 1551.1 | 1582.8 | 1586.3 | 1588.1 | 1667.3 | 1725.4 | 1737.7 |
| 52.5° | 5139.3 | 2202.5 | 1551.1 | 1501.8 | 1449.0 | 1519.4 | 1545.8 | 1549.4 | 1596.9 | 1644.4 | 1653.2 |
| 55° | 5179.8 | 2156.8 | 1442.0 | 1406.7 | 1359.2 | 1454.3 | 1505.3 | 1512.4 | 1522.9 | 1558.2 | 1563.4 |
| 57.5° | 5301.2 | 2167.3 | 1353.9 | 1308.1 | 1272.9 | 1376.8 | 1463.1 | 1468.4 | 1461.3 | 1503.6 | 1510.6 |
| 60° | 5338.2 | 2162.1 | 1288.8 | 1199.0 | 1177.9 | 1294.1 | 1401.5 | 1412.0 | 1410.3 | 1471.9 | 1484.2 |
| 62.5° | 5183.3 | 2095.1 | 1223.6 | 1107.4 | 1093.3 | 1209.6 | 1315.2 | 1357.4 | 1366.2 | 1454.3 | 1470.1 |
| 65° | 4818.8 | 1957.8 | 1137.4 | 1010.6 | 1010.6 | 1119.8 | 1232.4 | 1290.5 | 1315.2 | 1433.2 | 1450.8 |
| 67.5° | 4338.2 | 1795.8 | 1049.3 | 927.9 | 924.3 | 1033.5 | 1144.4 | 1204.3 | 1243.0 | 1403.2 | 1413.8 |
| 70° | 3600.5 | 1577.5 | 940.2 | 838.1 | 838.1 | 936.7 | 1037.0 | 1109.2 | 1165.5 | 1346.9 | 1346.9 |
| 72.5° | 2466.6 | 1311.7 | 808.1 | 735.9 | 737.7 | 829.3 | 931.4 | 1012.4 | 1079.3 | 1234.2 | 1237.7 |
| 75° | 1559.9 | 1024.7 | 663.8 | 626.8 | 633.8 | 720.1 | 825.7 | 910.2 | 1044.1 | 1220.1 | 1225.4 |
| 77.5° | 829.3 | 720.1 | 528.2 | 519.4 | 528.2 | 607.4 | 725.4 | 841.6 | 1047.6 | 1058.1 | 1040.5 |
| 80° | 537.0 | 510.6 | 417.3 | 399.7 | 403.2 | 489.5 | 646.2 | 799.3 | 841.6 | 852.1 | 813.4 |
| 82.5° | 292.3 | 324.0 | 295.8 | 278.2 | 278.2 | 382.1 | 551.1 | 635.6 | 603.9 | 501.8 | 478.9 |
| 85° | 125.0 | 151.4 | 153.2 | 133.8 | 128.5 | 235.9 | 369.7 | 346.8 | 322.2 | 308.1 | 304.6 |
| 87.5° | 35.2 | 49.3 | 49.3 | 37.0 | 28.2 | 65.1 | 73.9 | 21.1 | 0.0 | 1.8 | 3.5 |
| 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)