

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: P530425

Luminaire Tested: **GALN-SA5C-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-827-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17117 lumens
Efficiency: N/A
Efficacy: 63.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

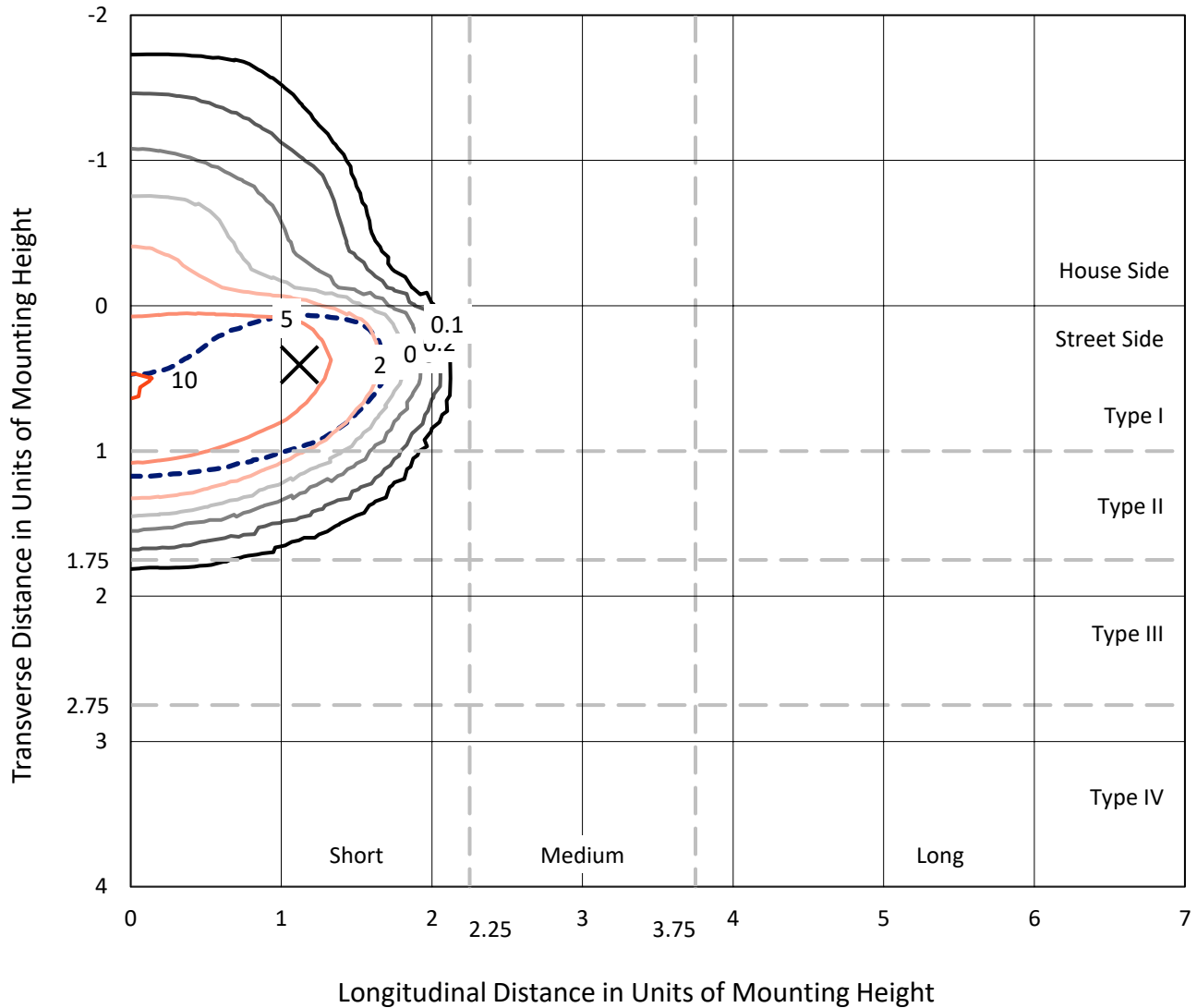
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

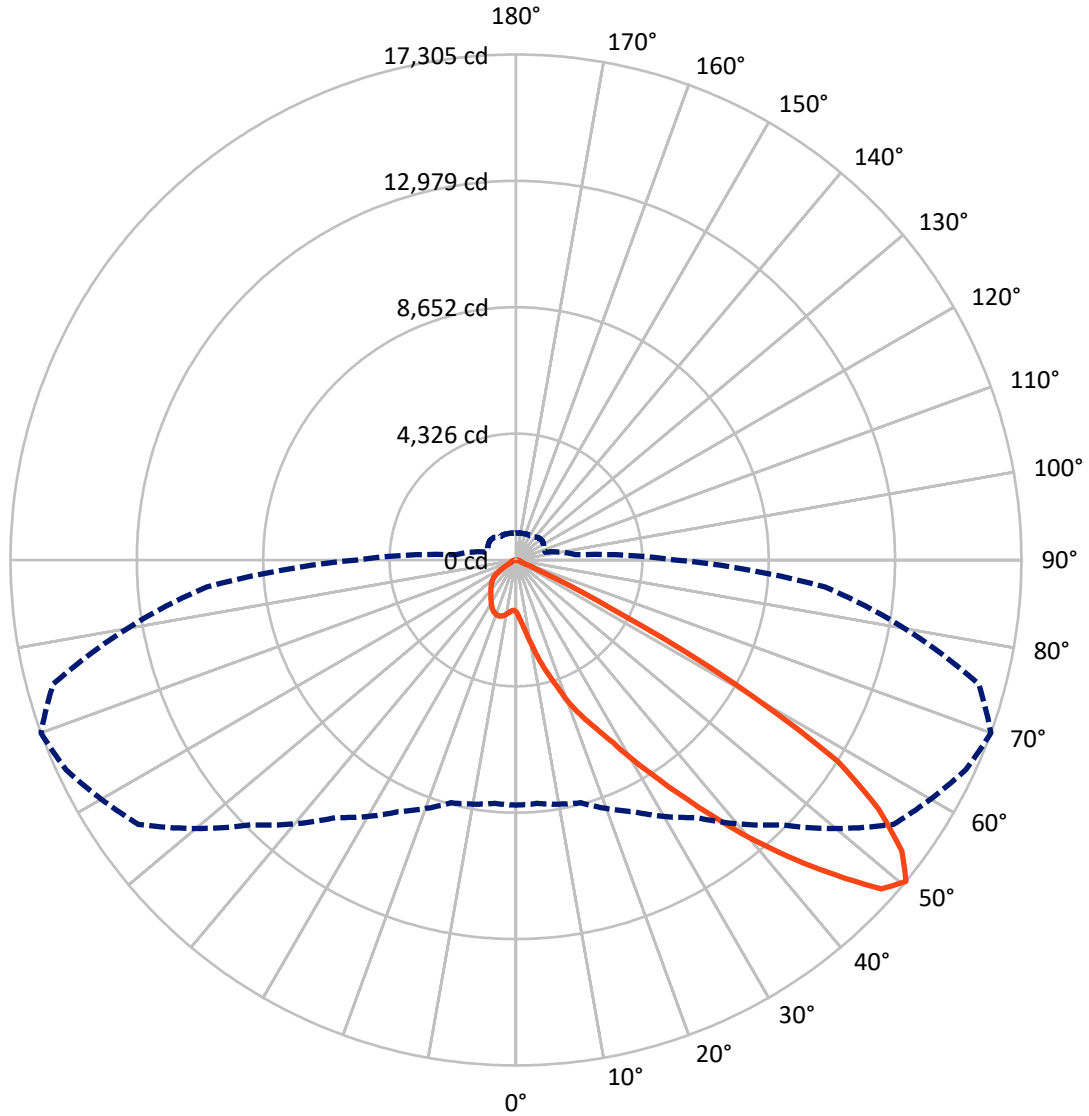
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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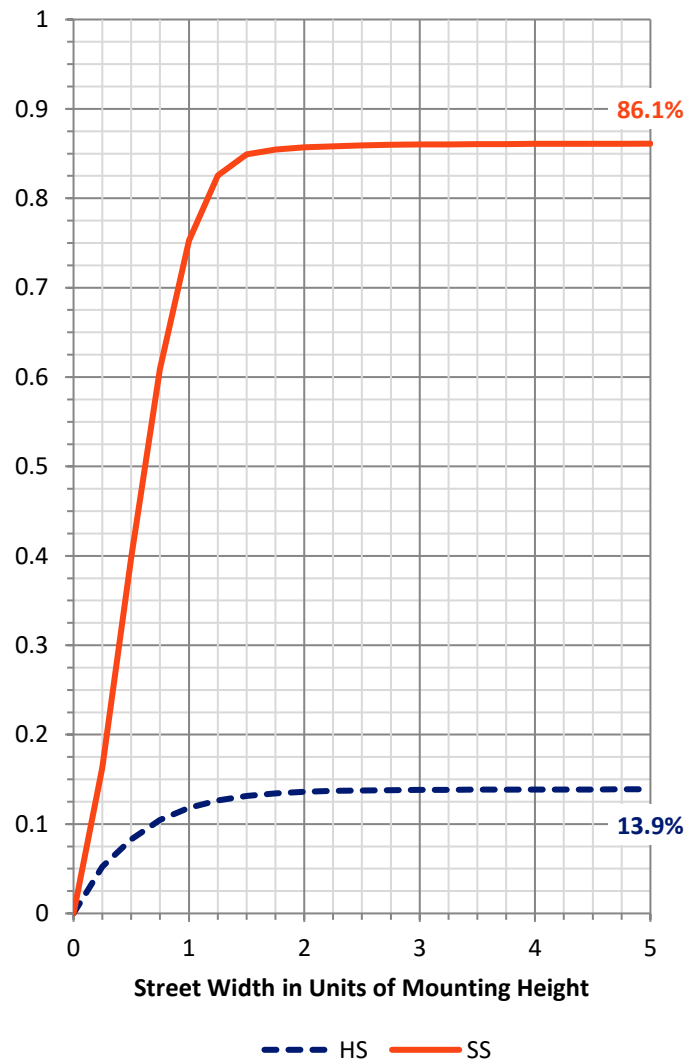
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2390.5 | 0.0 | 2390.5 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 14726.5 | 0.0 | 14726.5 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 17117.0 | 0.0 | 17117.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 230.6 | 1.3 |
| 10°-20° | 997.3 | 5.8 |
| 20°-30° | 2092.1 | 12.2 |
| 30°-40° | 3606.2 | 21.1 |
| 40°-50° | 5270.4 | 30.8 |
| 50°-60° | 4104.7 | 24.0 |
| 60°-70° | 695.5 | 4.1 |
| 70°-80° | 95.5 | 0.6 |
| 80°-90° | 24.7 | 0.1 |
| 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° | 17117.0 | 100.0 |
| 0°-180° | 17117.0 | 100.0 |



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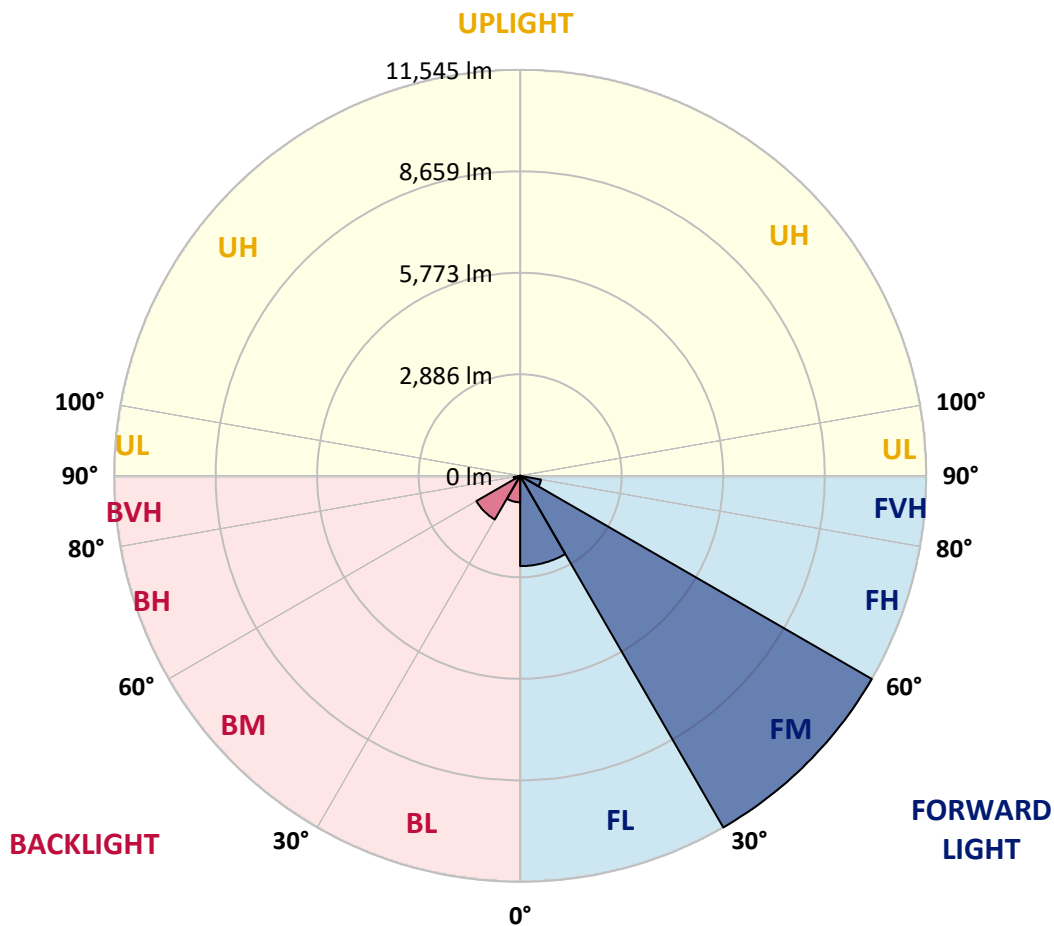
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2567.7 | 15.0 | | | |
| FM (30°-60°) | 11545.1 | 67.4 | | | |
| FH (60°-80°) | 602.2 | 3.5 | | | G0/660 |
| FVH (80°-90°) | 11.4 | 0.1 | | | G1/100 |
| BL (0°-30°) | 752.2 | 4.4 | B2/1000 | | |
| BM (30°-60°) | 1436.1 | 8.4 | B2/2500 | | |
| BH (60°-80°) | 188.8 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 13.3 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1773.0 | 1773.0 | 1773.0 | 1773.0 | 1773.0 | 1773.0 | 1773.0 | 1773.0 | 1773.0 | 1773.0 | 1773.0 |
| 2.5° | 2321.8 | 2304.9 | 2268.3 | 2200.8 | 2172.6 | 2105.1 | 2065.7 | 1989.7 | 1941.8 | 1888.4 | 1829.3 |
| 5° | 3270.2 | 3182.9 | 3129.5 | 3053.5 | 2831.1 | 2693.2 | 2465.3 | 2271.1 | 2181.1 | 2082.6 | 1947.5 |
| 7.5° | 4249.5 | 4193.2 | 4120.1 | 3956.9 | 3804.9 | 3517.8 | 3126.6 | 2698.9 | 2515.9 | 2347.1 | 2079.7 |
| 10° | 5060.0 | 4902.4 | 4894.0 | 4773.0 | 4606.9 | 4263.6 | 3793.6 | 3261.7 | 2935.3 | 2687.6 | 2268.3 |
| 12.5° | 5625.7 | 5482.2 | 5546.9 | 5532.8 | 5378.1 | 5062.9 | 4519.7 | 3816.1 | 3475.6 | 3090.1 | 2462.5 |
| 15° | 6140.7 | 6081.6 | 6061.9 | 6045.0 | 5983.1 | 5749.5 | 5262.7 | 4491.6 | 3999.1 | 3534.7 | 2682.0 |
| 17.5° | 6644.5 | 6492.5 | 6565.7 | 6579.7 | 6574.1 | 6363.0 | 5907.1 | 5133.2 | 4553.5 | 4004.7 | 2912.8 |
| 20° | 7091.9 | 7106.0 | 7007.5 | 6987.8 | 6970.9 | 6962.5 | 6517.8 | 5769.2 | 5234.5 | 4497.2 | 3213.9 |
| 22.5° | 7666.0 | 7567.5 | 7654.8 | 7598.5 | 7488.7 | 7421.2 | 7080.7 | 6332.1 | 5825.5 | 5091.0 | 3520.6 |
| 25° | 8344.3 | 8423.1 | 8217.6 | 8195.1 | 8074.1 | 7840.5 | 7533.8 | 6962.5 | 6394.0 | 5642.6 | 3852.7 |
| 27.5° | 9180.1 | 9042.2 | 8988.7 | 8864.9 | 8645.4 | 8546.9 | 8186.7 | 7612.6 | 7080.7 | 6222.3 | 4173.5 |
| 30° | 9897.8 | 9861.2 | 9593.8 | 9447.5 | 9256.1 | 9253.3 | 8749.5 | 8493.4 | 7975.6 | 7131.3 | 4615.4 |
| 32.5° | 10483.1 | 10322.7 | 10224.2 | 10122.9 | 9968.1 | 10010.3 | 9585.4 | 9450.3 | 8929.6 | 7975.6 | 5136.0 |
| 35° | 10874.3 | 10758.9 | 10699.8 | 10545.0 | 10500.0 | 10688.6 | 10511.3 | 10455.0 | 10027.2 | 9163.2 | 5746.7 |
| 37.5° | 10998.1 | 11034.7 | 11023.5 | 10829.3 | 10925.0 | 11434.3 | 11662.3 | 11516.0 | 11290.8 | 10415.6 | 6408.1 |
| 40° | 11107.9 | 11133.2 | 11076.9 | 11304.9 | 11577.9 | 12157.6 | 12982.2 | 12740.2 | 12655.7 | 11684.8 | 7328.3 |
| 42.5° | 11169.8 | 11150.1 | 11150.1 | 11544.1 | 11957.8 | 13122.9 | 14257.0 | 14096.6 | 14031.9 | 13035.7 | 8392.1 |
| 45° | 10902.4 | 10711.1 | 10916.5 | 11451.2 | 12284.2 | 13598.5 | 15275.8 | 15498.1 | 15405.3 | 14642.6 | 9636.0 |
| 47.5° | 9903.4 | 10021.6 | 10137.0 | 10851.8 | 11887.4 | 13452.2 | 15900.6 | 16657.6 | 16829.3 | 15993.4 | 10452.2 |
| 50° | 8392.1 | 8366.8 | 8606.0 | 9506.6 | 10764.5 | 12821.8 | 15779.6 | 16992.5 | 17304.9 | 16398.7 | 10623.8 |
| 52.5° | 6104.1 | 6289.9 | 6548.8 | 7443.7 | 8935.3 | 11189.5 | 14217.6 | 16128.5 | 16545.0 | 15900.6 | 10511.3 |
| 55° | 3554.4 | 3349.0 | 3931.5 | 4688.6 | 6095.7 | 8440.0 | 12019.7 | 14296.4 | 15067.6 | 14994.4 | 9942.8 |
| 57.5° | 1424.0 | 1379.0 | 1578.8 | 2127.6 | 3180.1 | 5231.7 | 8741.1 | 11746.7 | 12982.2 | 13733.6 | 8738.3 |
| 60° | 624.8 | 610.7 | 717.6 | 866.8 | 1300.2 | 2411.8 | 4781.4 | 7305.8 | 8594.8 | 9596.6 | 6014.1 |
| 62.5° | 450.3 | 444.7 | 498.1 | 551.6 | 686.7 | 1049.7 | 2009.4 | 2943.7 | 3669.8 | 4432.5 | 2693.2 |
| 65° | 363.0 | 377.1 | 413.7 | 441.8 | 506.6 | 582.6 | 709.2 | 818.9 | 1004.7 | 1041.3 | 593.8 |
| 67.5° | 295.5 | 306.8 | 340.5 | 371.5 | 382.7 | 315.2 | 326.5 | 287.1 | 287.1 | 256.1 | 205.4 |
| 70° | 216.7 | 219.5 | 258.9 | 295.5 | 236.4 | 126.6 | 222.3 | 222.3 | 199.8 | 191.4 | 174.5 |
| 72.5° | 160.4 | 163.2 | 194.2 | 182.9 | 92.9 | 78.8 | 163.2 | 180.1 | 163.2 | 154.8 | 140.7 |
| 75° | 118.2 | 121.0 | 101.3 | 42.2 | 39.4 | 50.7 | 95.7 | 123.8 | 118.2 | 115.4 | 106.9 |
| 77.5° | 22.5 | 16.9 | 14.1 | 19.7 | 28.1 | 42.2 | 61.9 | 76.0 | 78.8 | 84.4 | 78.8 |
| 80° | 2.8 | 2.8 | 8.4 | 16.9 | 31.0 | 45.0 | 64.7 | 73.2 | 76.0 | 78.8 | 73.2 |
| 82.5° | 0.0 | 2.8 | 8.4 | 16.9 | 31.0 | 42.2 | 56.3 | 64.7 | 70.4 | 73.2 | 70.4 |
| 85° | 0.0 | 2.8 | 5.6 | 14.1 | 25.3 | 31.0 | 28.1 | 19.7 | 16.9 | 19.7 | 14.1 |
| 87.5° | 0.0 | 0.0 | 2.8 | 2.8 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 |
| 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° | 1773.0 | 1773.0 | 1773.0 | 1773.0 | 1773.0 | 1773.0 | 1773.0 | 1773.0 | 1773.0 | 1773.0 | 1773.0 |
| 2.5° | 1795.5 | 1784.2 | 1744.8 | 1702.6 | 1666.0 | 1682.9 | 1666.0 | 1652.0 | 1657.6 | 1652.0 | 1646.3 |
| 5° | 1894.0 | 1843.3 | 1758.9 | 1722.3 | 1691.4 | 1688.6 | 1680.1 | 1677.3 | 1680.1 | 1680.1 | 1654.8 |
| 7.5° | 1986.9 | 1905.3 | 1815.2 | 1775.8 | 1739.2 | 1742.0 | 1722.3 | 1722.3 | 1719.5 | 1705.4 | 1699.8 |
| 10° | 2127.6 | 2017.8 | 1902.4 | 1832.1 | 1787.1 | 1778.6 | 1758.9 | 1739.2 | 1739.2 | 1739.2 | 1711.1 |
| 12.5° | 2282.4 | 2144.5 | 1986.9 | 1905.3 | 1851.8 | 1809.6 | 1778.6 | 1773.0 | 1742.0 | 1736.4 | 1722.3 |
| 15° | 2417.4 | 2243.0 | 2043.2 | 1930.6 | 1863.0 | 1806.8 | 1758.9 | 1728.0 | 1713.9 | 1705.4 | 1694.2 |
| 17.5° | 2549.7 | 2327.4 | 2074.1 | 1930.6 | 1857.4 | 1792.7 | 1742.0 | 1713.9 | 1680.1 | 1685.7 | 1663.2 |
| 20° | 2727.0 | 2417.4 | 2082.6 | 1894.0 | 1803.9 | 1742.0 | 1674.5 | 1660.4 | 1640.7 | 1623.8 | 1629.5 |
| 22.5° | 2898.7 | 2482.2 | 2057.2 | 1849.0 | 1719.5 | 1646.3 | 1612.6 | 1595.7 | 1587.2 | 1573.2 | 1553.5 |
| 25° | 3053.5 | 2552.5 | 2017.8 | 1767.4 | 1629.5 | 1576.0 | 1545.0 | 1542.2 | 1522.5 | 1522.5 | 1485.9 |
| 27.5° | 3211.1 | 2577.9 | 1950.3 | 1671.7 | 1550.7 | 1519.7 | 1505.6 | 1500.0 | 1491.6 | 1471.9 | 1446.5 |
| 30° | 3391.2 | 2586.3 | 1851.8 | 1573.2 | 1480.3 | 1446.5 | 1466.2 | 1480.3 | 1443.7 | 1407.1 | 1418.4 |
| 32.5° | 3540.3 | 2566.6 | 1733.6 | 1480.3 | 1429.6 | 1412.8 | 1452.2 | 1466.2 | 1424.0 | 1384.6 | 1364.9 |
| 35° | 3720.5 | 2518.8 | 1618.2 | 1407.1 | 1379.0 | 1412.8 | 1446.5 | 1446.5 | 1362.1 | 1314.3 | 1303.0 |
| 37.5° | 3993.4 | 2465.3 | 1511.3 | 1345.2 | 1325.5 | 1395.9 | 1440.9 | 1409.9 | 1277.7 | 1218.6 | 1204.5 |
| 40° | 4286.1 | 2431.5 | 1407.1 | 1283.3 | 1297.4 | 1367.7 | 1393.1 | 1297.4 | 1162.3 | 1125.7 | 1114.4 |
| 42.5° | 4711.1 | 2364.0 | 1314.3 | 1229.8 | 1272.0 | 1328.3 | 1328.3 | 1156.7 | 1106.0 | 1086.3 | 1083.5 |
| 45° | 5240.2 | 2316.1 | 1232.6 | 1184.8 | 1235.5 | 1249.5 | 1204.5 | 1083.5 | 1046.9 | 1041.3 | 1044.1 |
| 47.5° | 5499.1 | 2223.3 | 1148.2 | 1131.3 | 1167.9 | 1170.7 | 1052.5 | 1024.4 | 993.4 | 985.0 | 979.4 |
| 50° | 5459.7 | 2057.2 | 1038.5 | 1061.0 | 1111.6 | 1083.5 | 959.7 | 965.3 | 937.1 | 934.3 | 920.3 |
| 52.5° | 5183.9 | 1795.5 | 928.7 | 982.2 | 1038.5 | 956.8 | 883.7 | 878.0 | 878.0 | 841.5 | 827.4 |
| 55° | 4595.7 | 1446.5 | 796.4 | 864.0 | 931.5 | 804.9 | 785.2 | 779.6 | 765.5 | 731.7 | 723.3 |
| 57.5° | 3638.8 | 1061.0 | 599.4 | 672.6 | 790.8 | 683.9 | 681.1 | 655.7 | 619.1 | 593.8 | 593.8 |
| 60° | 2164.2 | 610.7 | 377.1 | 410.9 | 523.5 | 554.4 | 616.3 | 605.1 | 543.2 | 503.8 | 492.5 |
| 62.5° | 987.8 | 315.2 | 239.2 | 244.8 | 281.4 | 360.2 | 484.1 | 560.0 | 472.8 | 405.3 | 399.6 |
| 65° | 332.1 | 233.6 | 197.0 | 188.6 | 194.2 | 216.7 | 289.9 | 396.8 | 377.1 | 312.4 | 301.1 |
| 67.5° | 202.6 | 208.3 | 185.7 | 171.7 | 171.7 | 168.9 | 166.0 | 180.1 | 222.3 | 216.7 | 219.5 |
| 70° | 174.5 | 191.4 | 171.7 | 154.8 | 149.2 | 140.7 | 118.2 | 98.5 | 84.4 | 98.5 | 104.1 |
| 72.5° | 140.7 | 152.0 | 146.3 | 132.3 | 118.2 | 106.9 | 84.4 | 64.7 | 47.8 | 42.2 | 42.2 |
| 75° | 104.1 | 112.6 | 118.2 | 101.3 | 90.1 | 76.0 | 61.9 | 42.2 | 25.3 | 16.9 | 16.9 |
| 77.5° | 76.0 | 84.4 | 87.2 | 78.8 | 67.5 | 53.5 | 39.4 | 28.1 | 14.1 | 5.6 | 5.6 |
| 80° | 64.7 | 76.0 | 84.4 | 78.8 | 70.4 | 50.7 | 36.6 | 19.7 | 11.3 | 2.8 | 2.8 |
| 82.5° | 61.9 | 76.0 | 84.4 | 76.0 | 67.5 | 47.8 | 36.6 | 22.5 | 8.4 | 2.8 | 2.8 |
| 85° | 14.1 | 19.7 | 25.3 | 31.0 | 36.6 | 36.6 | 28.1 | 16.9 | 8.4 | 2.8 | 2.8 |
| 87.5° | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 2.8 | 2.8 | 0.0 |
| 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)