

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: P647056

Luminaire Tested: **GALN-SA7C-835-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38002.9 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

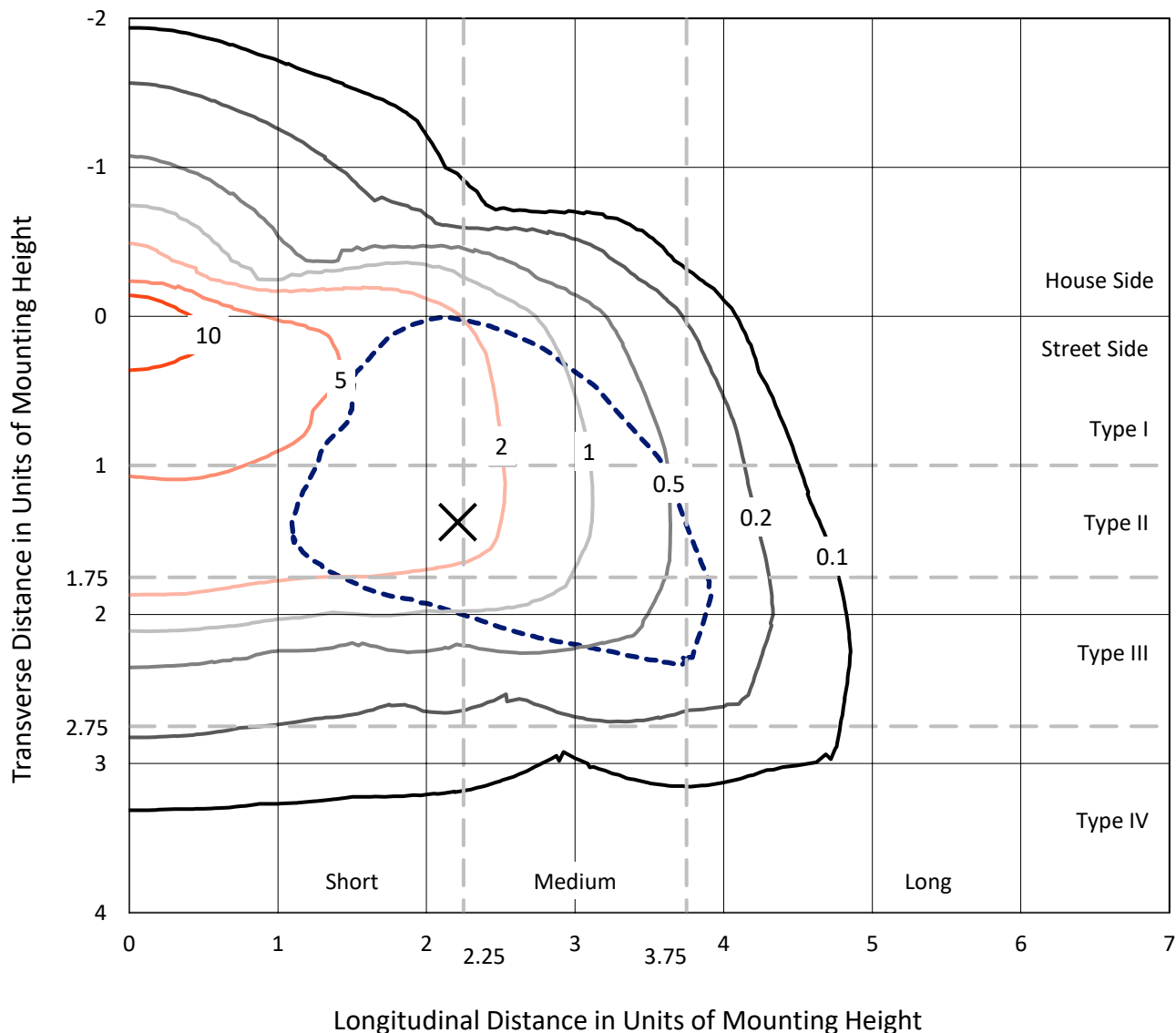
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

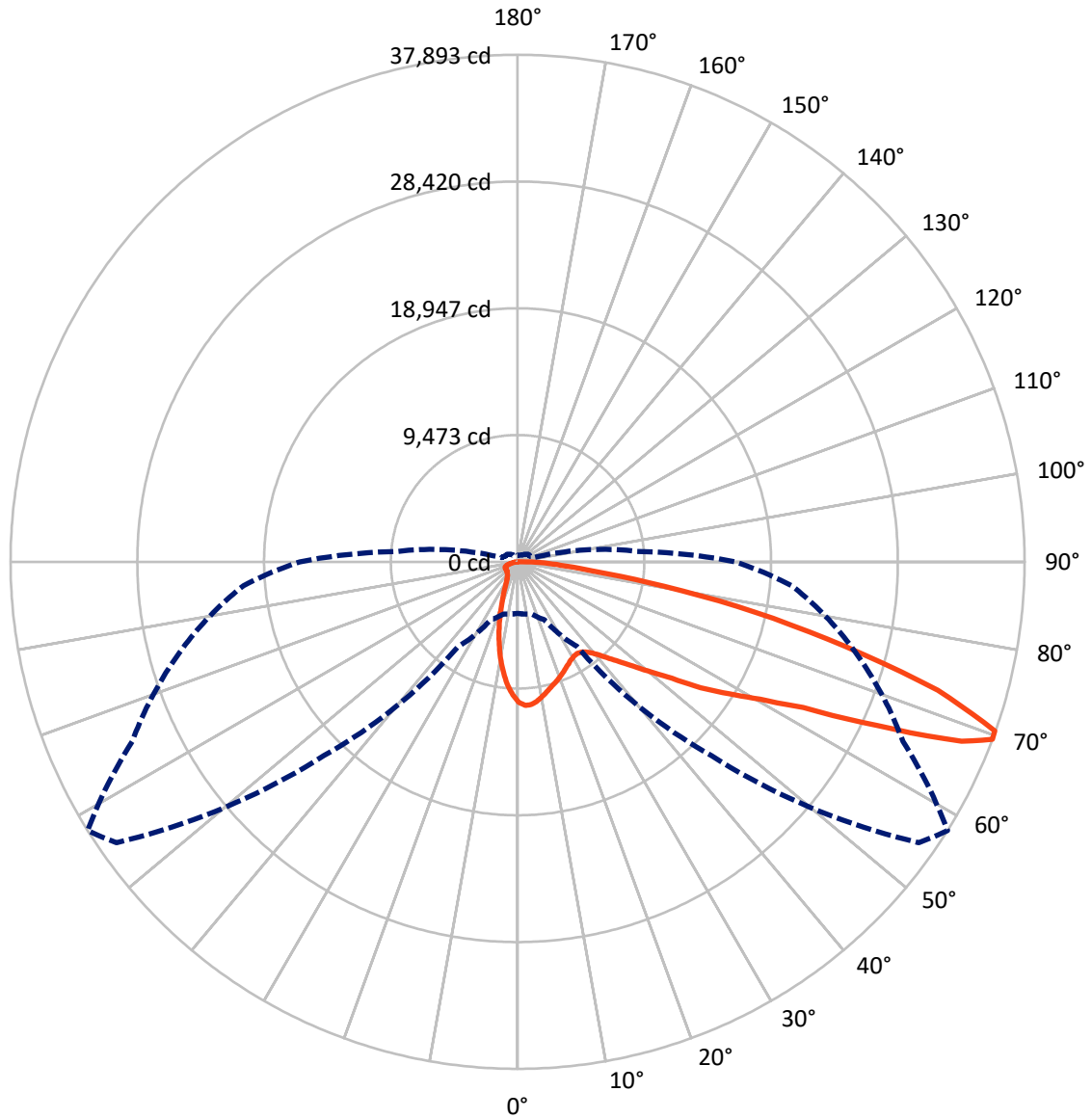
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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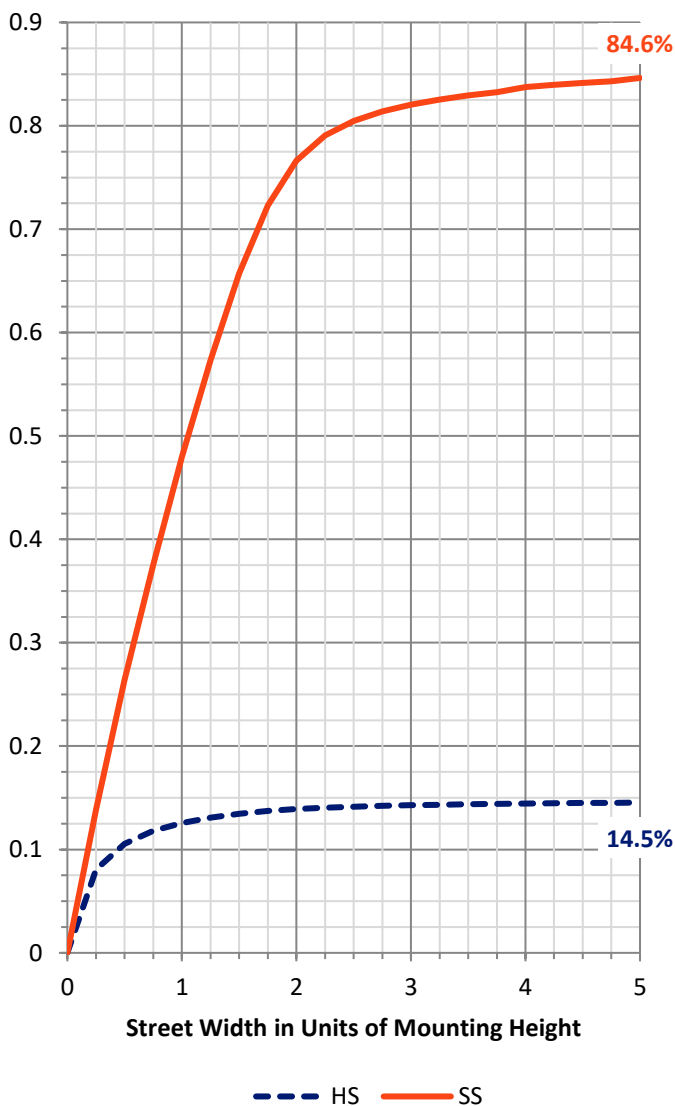
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5569.3 | 0.0 | 5569.3 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 32433.6 | 0.0 | 32433.6 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 38002.9 | 0.0 | 38002.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 891.9 | 2.3 |
| 10°-20° | 1958.4 | 5.2 |
| 20°-30° | 2530.2 | 6.7 |
| 30°-40° | 3286.3 | 8.6 |
| 40°-50° | 4777.8 | 12.6 |
| 50°-60° | 7623.8 | 20.1 |
| 60°-70° | 10184.4 | 26.8 |
| 70°-80° | 5870.9 | 15.4 |
| 80°-90° | 879.3 | 2.3 |
| 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° | 38002.9 | 100.0 |
| 0°-180° | 38002.9 | 100.0 |



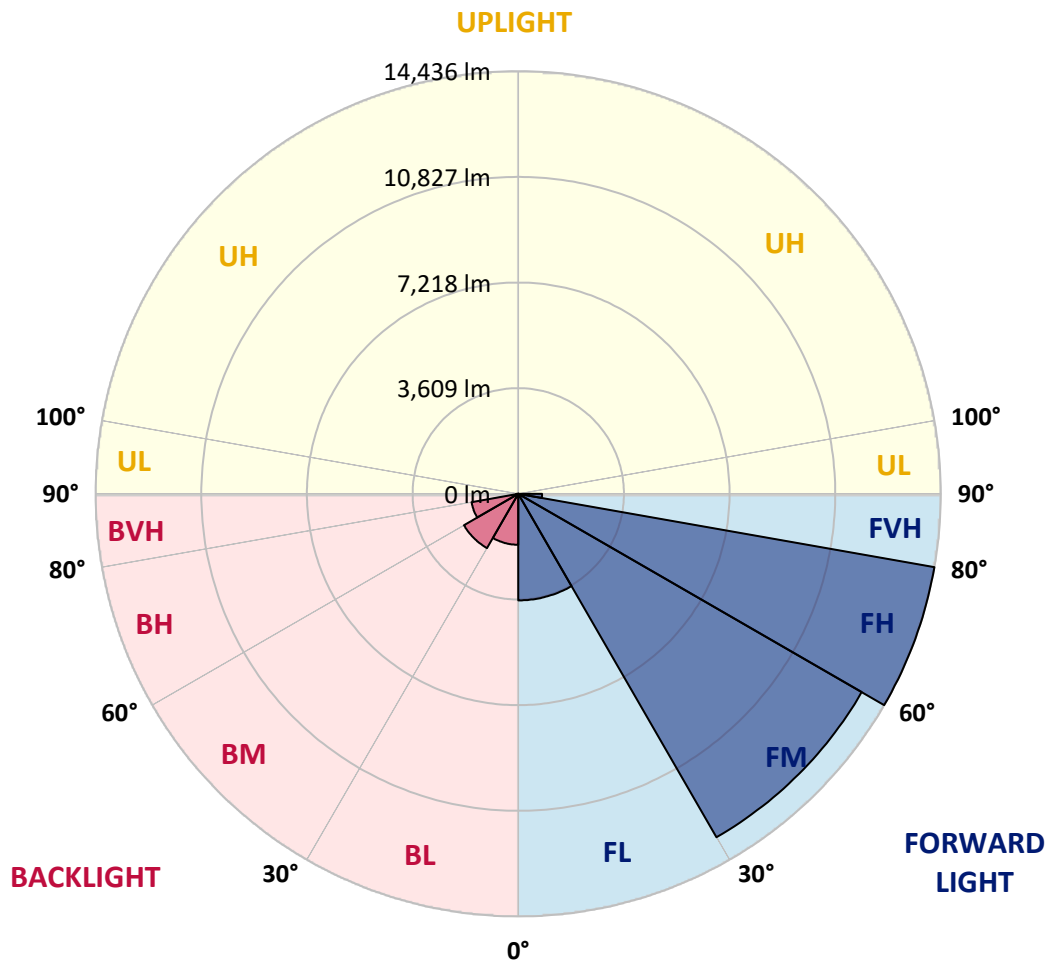
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3639.7 | 9.6 | | | |
| FM (30°-60°) | 13546.1 | 35.6 | | | |
| FH (60°-80°) | 14435.8 | 38.0 | | | G5 |
| FVH (80°-90°) | 812.0 | 2.1 | | | G5 |
| BL (0°-30°) | 1740.7 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 2141.8 | 5.6 | B2/2500 | | |
| BH (60°-80°) | 1619.4 | 4.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 67.4 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10501.8 | 10501.8 | 10501.8 | 10501.8 | 10501.8 | 10501.8 | 10501.8 | 10501.8 | 10501.8 | 10501.8 | 10501.8 |
| 2.5° | 10891.8 | 10921.4 | 10913.0 | 10902.3 | 10885.4 | 10838.8 | 10762.5 | 10749.7 | 10701.0 | 10597.1 | 10467.8 |
| 5° | 10724.3 | 10749.7 | 10751.8 | 10766.7 | 10787.9 | 10779.4 | 10724.3 | 10717.9 | 10645.9 | 10506.0 | 10289.9 |
| 7.5° | 10150.0 | 10183.9 | 10258.0 | 10340.7 | 10414.9 | 10484.8 | 10501.8 | 10512.4 | 10467.8 | 10306.8 | 10018.6 |
| 10° | 9503.5 | 9537.4 | 9571.3 | 9694.2 | 9876.5 | 10050.4 | 10194.4 | 10213.5 | 10224.1 | 10075.8 | 9723.9 |
| 12.5° | 8787.1 | 8857.1 | 8929.2 | 9111.5 | 9355.1 | 9628.6 | 9882.9 | 9923.2 | 9995.2 | 9882.9 | 9469.6 |
| 15° | 8178.9 | 8250.9 | 8354.8 | 8518.0 | 8812.6 | 9206.8 | 9565.0 | 9630.7 | 9772.7 | 9715.5 | 9232.3 |
| 17.5° | 7757.1 | 7782.6 | 7854.6 | 8041.1 | 8359.0 | 8774.5 | 9253.4 | 9384.8 | 9611.6 | 9596.8 | 9028.8 |
| 20° | 7424.3 | 7456.1 | 7500.7 | 7615.1 | 7945.7 | 8384.4 | 8963.1 | 9132.6 | 9439.9 | 9490.8 | 8827.5 |
| 22.5° | 7284.5 | 7307.8 | 7301.5 | 7362.9 | 7587.6 | 8028.4 | 8668.4 | 8869.8 | 9287.3 | 9418.8 | 8641.0 |
| 25° | 7292.9 | 7314.2 | 7282.4 | 7267.5 | 7401.1 | 7714.7 | 8361.2 | 8617.6 | 9164.4 | 9370.0 | 8471.4 |
| 27.5° | 7435.0 | 7449.8 | 7390.4 | 7331.1 | 7341.7 | 7519.8 | 8106.8 | 8390.9 | 9060.6 | 9391.2 | 8329.4 |
| 30° | 7625.7 | 7653.3 | 7615.1 | 7543.0 | 7464.7 | 7473.1 | 7943.6 | 8223.4 | 9011.8 | 9465.4 | 8261.5 |
| 32.5° | 7871.6 | 7897.0 | 7880.0 | 7822.8 | 7721.1 | 7608.7 | 7903.4 | 8161.9 | 9016.1 | 9615.9 | 8246.7 |
| 35° | 8130.1 | 8181.0 | 8208.6 | 8204.4 | 8121.7 | 7926.7 | 8062.3 | 8276.4 | 9117.8 | 9868.1 | 8333.6 |
| 37.5° | 8422.7 | 8465.0 | 8583.7 | 8660.0 | 8583.7 | 8356.9 | 8420.5 | 8568.8 | 9342.4 | 10232.6 | 8524.4 |
| 40° | 8706.6 | 8770.2 | 8944.0 | 9181.4 | 9151.7 | 8952.5 | 8967.3 | 9064.8 | 9738.8 | 10775.2 | 8897.4 |
| 42.5° | 9003.3 | 9079.7 | 9382.7 | 9734.6 | 9804.5 | 9649.8 | 9690.0 | 9776.9 | 10302.6 | 11527.6 | 9537.4 |
| 45° | 9384.8 | 9475.9 | 9849.0 | 10287.7 | 10563.2 | 10467.8 | 10582.3 | 10624.7 | 11057.1 | 12506.8 | 10380.9 |
| 47.5° | 9876.5 | 9982.5 | 10442.4 | 10989.2 | 11379.3 | 11466.1 | 11665.4 | 11639.9 | 11991.7 | 13666.1 | 11474.6 |
| 50° | 10705.3 | 10764.6 | 11199.1 | 11756.5 | 12292.7 | 12684.8 | 12900.9 | 12941.3 | 13151.0 | 14793.6 | 12697.5 |
| 52.5° | 11690.8 | 11743.7 | 12057.4 | 12544.9 | 13216.8 | 14047.6 | 14581.7 | 14450.3 | 14501.2 | 16167.0 | 14128.1 |
| 55° | 12799.2 | 12888.3 | 13087.5 | 13411.8 | 14282.9 | 15505.7 | 16578.2 | 16610.0 | 16046.2 | 17481.1 | 15499.4 |
| 57.5° | 13657.6 | 13808.1 | 14149.3 | 14611.3 | 15715.6 | 17127.1 | 18568.3 | 18589.5 | 17868.9 | 18884.2 | 17012.6 |
| 60° | 13225.3 | 13403.3 | 14183.3 | 15308.7 | 17595.5 | 19956.6 | 20946.3 | 20825.5 | 19642.9 | 20482.2 | 18858.7 |
| 62.5° | 11360.2 | 11391.9 | 12525.8 | 14285.0 | 18174.1 | 23741.9 | 24485.8 | 23975.0 | 22010.3 | 22508.4 | 20734.4 |
| 65° | 7352.3 | 7560.0 | 8458.7 | 10923.6 | 16273.0 | 25842.2 | 30687.3 | 29506.7 | 25329.3 | 24807.9 | 22304.9 |
| 67.5° | 4641.5 | 4588.5 | 4961.6 | 6237.5 | 11192.8 | 23992.0 | 35979.5 | 35793.0 | 29669.9 | 26259.7 | 21929.7 |
| 69° | 3848.9 | 3908.3 | 4035.4 | 4781.5 | 7702.0 | 20484.3 | 36604.7 | 37893.3 | 31774.5 | 26145.3 | 20567.0 |
| 70° | 3490.7 | 3518.3 | 3651.8 | 4238.8 | 5942.9 | 17156.8 | 35578.9 | 37836.0 | 32601.1 | 25666.3 | 19579.3 |
| 72.5° | 2770.1 | 2768.0 | 2996.9 | 3526.7 | 4442.4 | 9793.9 | 29214.2 | 32849.0 | 31677.0 | 23436.7 | 16177.6 |
| 75° | 2104.6 | 2138.5 | 2390.7 | 2984.2 | 4092.6 | 5351.6 | 20386.8 | 25297.6 | 25299.7 | 18511.1 | 10094.8 |
| 77.5° | 1517.5 | 1538.7 | 1833.3 | 2505.1 | 3855.3 | 4338.4 | 13579.2 | 18144.5 | 17057.2 | 8481.9 | 3172.8 |
| 80° | 994.0 | 1006.7 | 1231.4 | 1983.8 | 3475.9 | 4092.6 | 8051.7 | 11105.8 | 8045.3 | 2250.8 | 1049.1 |
| 82.5° | 544.7 | 608.3 | 752.4 | 1284.4 | 2789.2 | 3781.0 | 4893.8 | 5620.8 | 3018.1 | 1002.5 | 546.8 |
| 85° | 273.4 | 290.3 | 423.9 | 750.3 | 1822.7 | 3128.2 | 3408.0 | 3223.7 | 1557.8 | 498.1 | 284.0 |
| 87.5° | 80.6 | 101.7 | 175.9 | 290.3 | 739.7 | 1629.8 | 1896.9 | 1701.9 | 599.8 | 180.2 | 59.4 |
| 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° | 10501.8 | 10501.8 | 10501.8 | 10501.8 | 10501.8 | 10501.8 | 10501.8 | 10501.8 | 10501.8 | 10501.8 | 10501.8 |
| 2.5° | 10414.9 | 10376.7 | 10207.2 | 10054.6 | 9914.7 | 9766.4 | 9641.3 | 9531.1 | 9541.6 | 9543.8 | 9431.5 |
| 5° | 10177.5 | 10090.6 | 9768.5 | 9467.5 | 9213.2 | 8891.0 | 8615.5 | 8437.5 | 8348.4 | 8229.7 | 8272.2 |
| 7.5° | 9855.4 | 9687.9 | 9240.7 | 8740.6 | 8272.2 | 7854.6 | 7401.1 | 7089.5 | 6890.2 | 6697.4 | 6722.8 |
| 10° | 9522.6 | 9253.4 | 8602.7 | 7941.5 | 7335.4 | 6667.7 | 6089.2 | 5593.2 | 5224.4 | 5086.6 | 4995.5 |
| 12.5° | 9181.4 | 8827.5 | 8000.9 | 7121.3 | 6284.1 | 5485.1 | 4664.9 | 4132.9 | 3726.0 | 3509.8 | 3537.4 |
| 15° | 8869.8 | 8439.6 | 7373.5 | 6301.0 | 5213.8 | 4262.2 | 3444.1 | 2937.5 | 2653.5 | 2594.2 | 2628.1 |
| 17.5° | 8581.6 | 8017.8 | 6786.4 | 5504.2 | 4234.6 | 3196.1 | 2587.8 | 2301.7 | 2187.2 | 2155.4 | 2153.3 |
| 20° | 8284.8 | 7659.6 | 6127.3 | 4652.1 | 3300.0 | 2477.6 | 2123.7 | 1990.2 | 1968.9 | 1981.7 | 1983.8 |
| 22.5° | 7983.9 | 7216.7 | 5449.1 | 3806.5 | 2628.1 | 2026.2 | 1856.6 | 1820.6 | 1837.5 | 1867.2 | 1871.4 |
| 25° | 7706.3 | 6826.7 | 4796.3 | 3064.7 | 2098.2 | 1780.3 | 1697.7 | 1697.7 | 1735.8 | 1780.3 | 1782.4 |
| 27.5° | 7477.3 | 6449.4 | 4145.6 | 2433.1 | 1757.0 | 1602.3 | 1574.8 | 1589.6 | 1642.6 | 1676.5 | 1678.6 |
| 30° | 7288.7 | 6097.6 | 3530.9 | 1949.9 | 1545.1 | 1460.3 | 1454.0 | 1479.4 | 1517.5 | 1549.3 | 1551.4 |
| 32.5° | 7146.8 | 5788.2 | 2956.6 | 1638.3 | 1398.8 | 1352.2 | 1350.0 | 1369.2 | 1390.4 | 1398.8 | 1407.3 |
| 35° | 7091.6 | 5531.7 | 2431.0 | 1441.2 | 1301.3 | 1271.7 | 1271.7 | 1269.6 | 1278.0 | 1282.2 | 1286.5 |
| 37.5° | 7136.1 | 5334.6 | 2024.1 | 1314.0 | 1229.2 | 1208.1 | 1195.3 | 1182.6 | 1178.4 | 1178.4 | 1180.5 |
| 40° | 7324.7 | 5230.8 | 1721.0 | 1231.4 | 1178.4 | 1146.6 | 1123.3 | 1108.5 | 1093.6 | 1097.8 | 1102.1 |
| 42.5° | 7725.3 | 5249.9 | 1515.4 | 1176.3 | 1133.9 | 1089.4 | 1055.5 | 1038.5 | 1027.9 | 1040.6 | 1038.5 |
| 45° | 8363.3 | 5440.6 | 1384.0 | 1138.2 | 1089.4 | 1032.2 | 1000.4 | 983.4 | 983.4 | 1002.5 | 1008.8 |
| 47.5° | 9255.5 | 5805.1 | 1314.0 | 1108.5 | 1055.5 | 987.7 | 955.9 | 943.1 | 947.4 | 979.1 | 981.3 |
| 50° | 10344.9 | 6438.8 | 1301.3 | 1093.6 | 1038.5 | 955.9 | 919.9 | 907.1 | 917.7 | 951.7 | 955.9 |
| 52.5° | 11546.7 | 7254.8 | 1362.8 | 1095.7 | 1023.7 | 936.8 | 890.2 | 871.1 | 881.7 | 909.2 | 917.7 |
| 55° | 12970.9 | 8276.4 | 1521.8 | 1104.2 | 1002.5 | 926.2 | 869.0 | 826.6 | 839.3 | 858.4 | 860.5 |
| 57.5° | 14424.8 | 9565.0 | 1801.5 | 1106.4 | 985.6 | 907.1 | 833.0 | 777.8 | 777.8 | 790.5 | 796.9 |
| 60° | 16200.9 | 10968.0 | 2170.3 | 1108.5 | 987.7 | 879.5 | 784.2 | 722.7 | 714.3 | 720.6 | 722.7 |
| 62.5° | 17964.3 | 12142.2 | 2231.8 | 1102.1 | 1008.8 | 852.0 | 731.2 | 667.6 | 652.8 | 650.7 | 646.4 |
| 65° | 18742.1 | 11923.9 | 1829.1 | 1072.4 | 1032.2 | 835.1 | 688.8 | 614.7 | 589.2 | 580.8 | 580.8 |
| 67.5° | 17474.7 | 10086.4 | 1375.5 | 1032.2 | 1017.4 | 818.1 | 648.6 | 570.1 | 540.4 | 523.5 | 523.5 |
| 69° | 16283.6 | 8971.5 | 1235.7 | 1004.6 | 979.1 | 790.5 | 623.1 | 546.8 | 510.8 | 491.7 | 485.4 |
| 70° | 15363.7 | 8204.4 | 1176.3 | 981.3 | 943.1 | 758.7 | 604.0 | 529.9 | 489.6 | 468.4 | 464.2 |
| 72.5° | 12260.9 | 6436.7 | 1030.0 | 892.3 | 803.3 | 637.9 | 536.2 | 476.8 | 438.7 | 415.4 | 409.0 |
| 75° | 7066.2 | 3488.6 | 854.1 | 775.7 | 646.4 | 496.0 | 453.6 | 415.4 | 385.7 | 364.6 | 358.2 |
| 77.5° | 2174.5 | 1347.9 | 618.9 | 612.5 | 474.7 | 383.6 | 362.5 | 347.6 | 326.4 | 303.1 | 298.9 |
| 80° | 915.6 | 686.7 | 419.6 | 413.3 | 315.8 | 267.1 | 260.7 | 258.5 | 250.1 | 231.0 | 224.6 |
| 82.5° | 502.3 | 387.8 | 292.5 | 254.3 | 190.7 | 154.7 | 161.1 | 163.2 | 156.8 | 137.7 | 125.0 |
| 85° | 245.9 | 212.0 | 142.0 | 114.5 | 86.9 | 55.1 | 53.0 | 63.6 | 59.4 | 42.4 | 46.6 |
| 87.5° | 48.8 | 59.4 | 38.1 | 17.0 | 8.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)