

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: P531685

Luminaire Tested: **GALN-SA7A-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21640 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

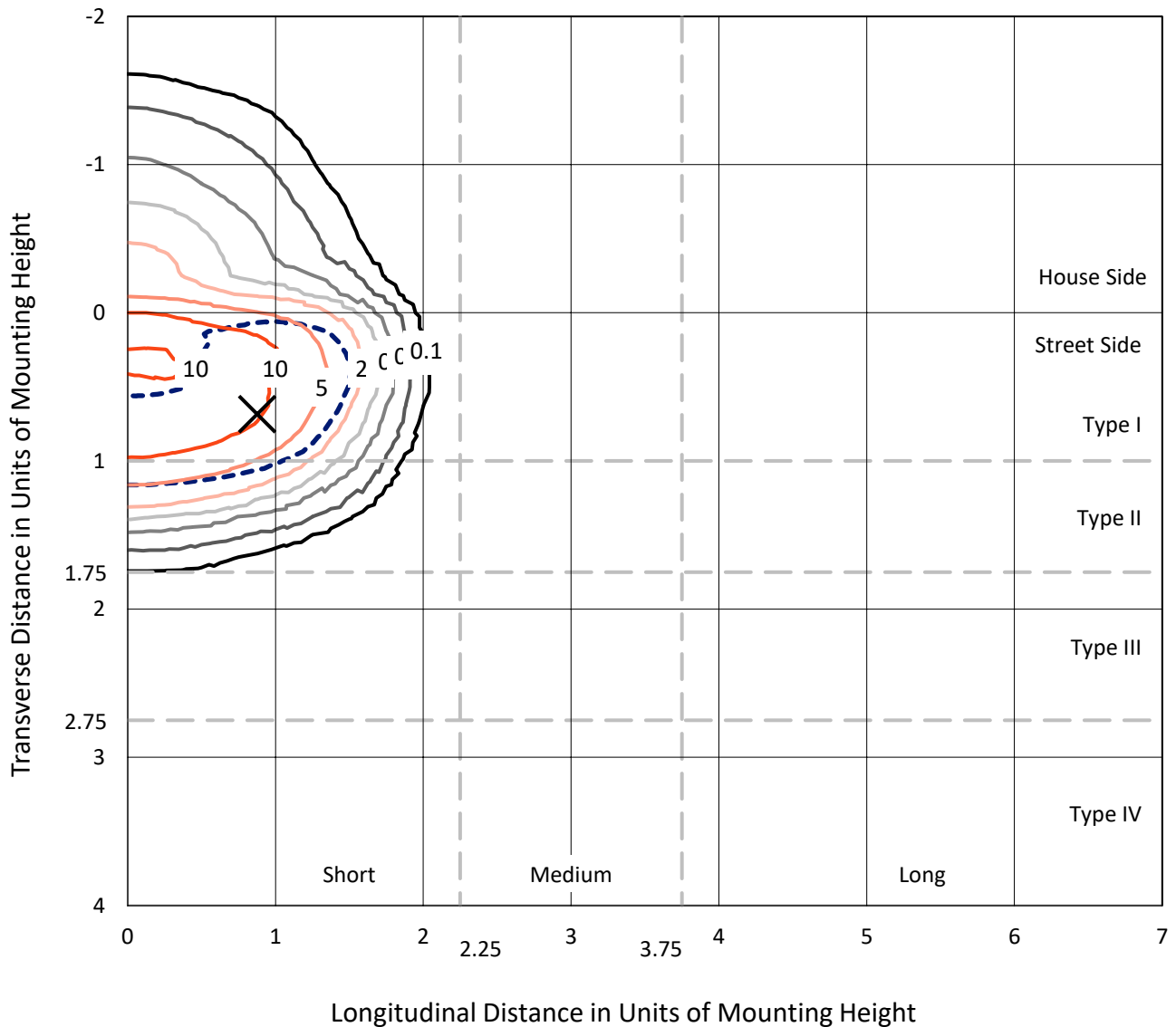
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

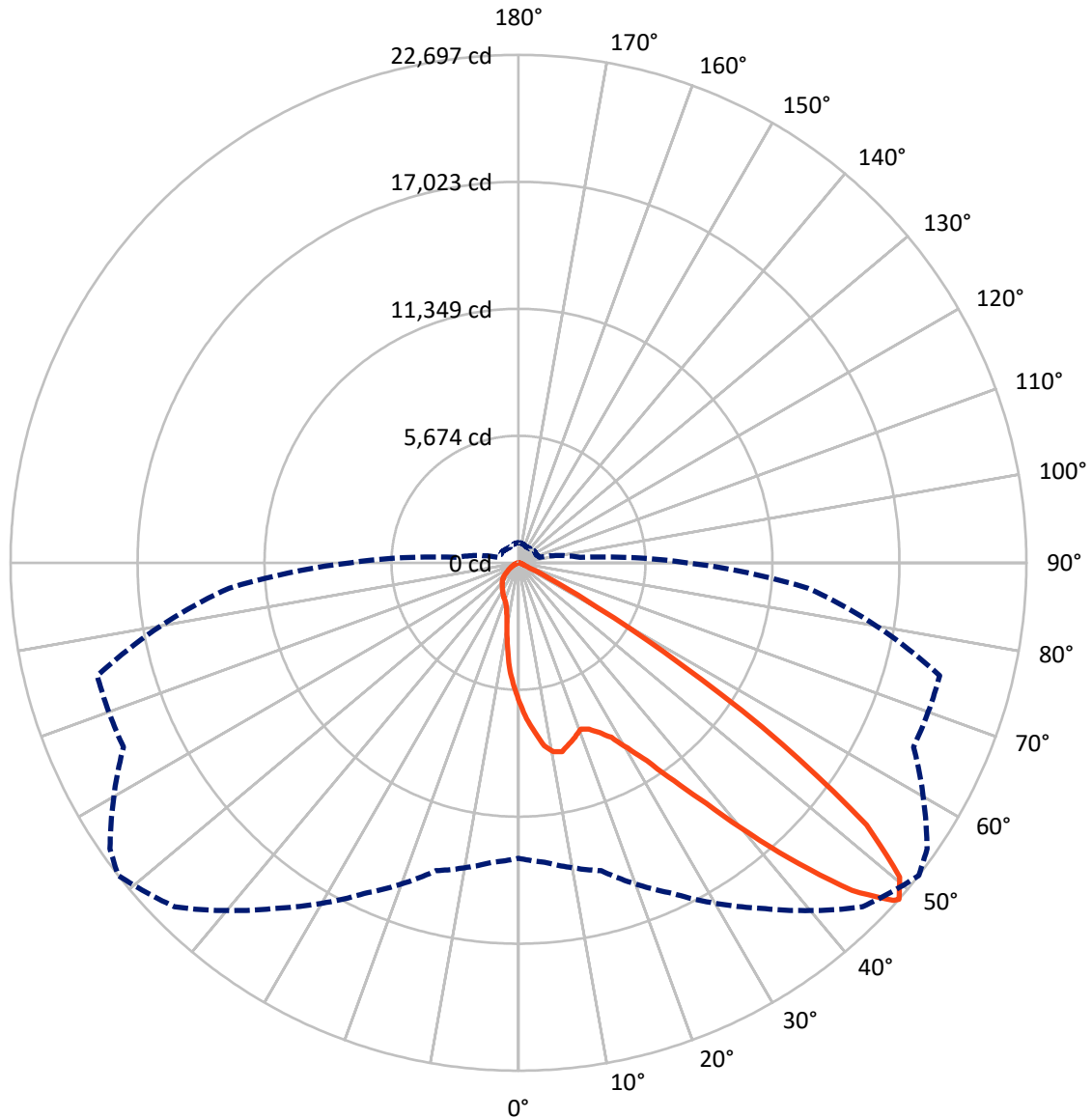
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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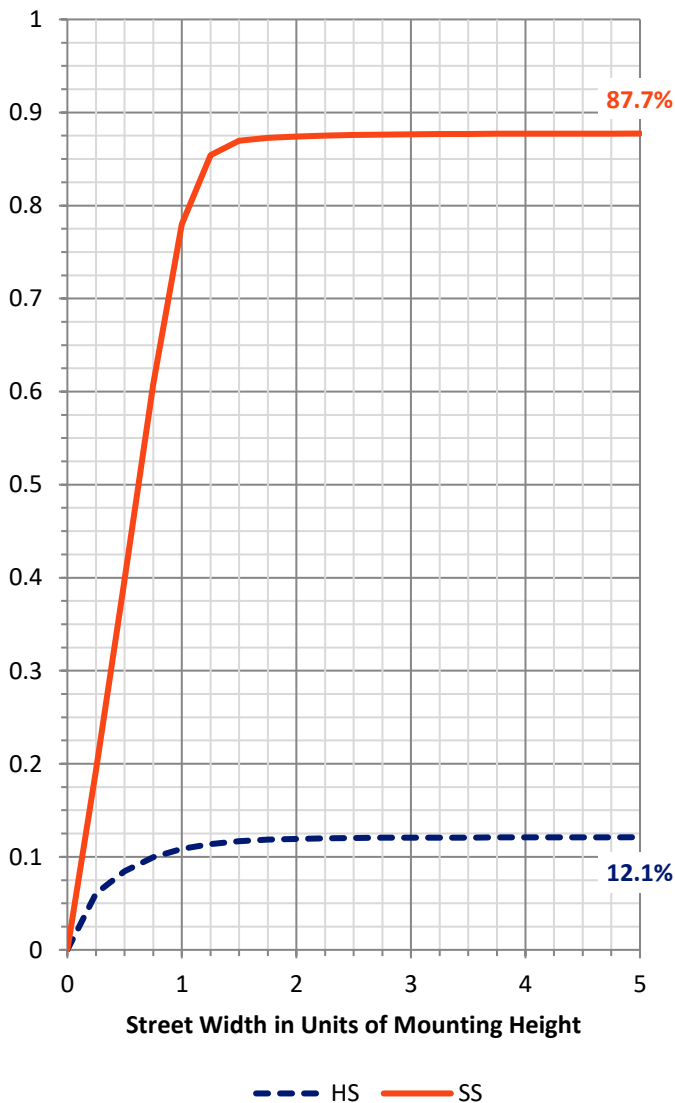
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2634.8 | 0.0 | 2634.8 |
| | % Fixture | 12.2 | 0.0 | 12.2 |
| Street Side | Lumens | 19005.2 | 0.0 | 19005.2 |
| | % Fixture | 87.8 | 0.0 | 87.8 |
| Total | Lumens | 21640.0 | 0.0 | 21640.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 572.0 | 2.6 |
| 10°-20° | 1494.8 | 6.9 |
| 20°-30° | 2552.2 | 11.8 |
| 30°-40° | 4700.0 | 21.7 |
| 40°-50° | 7299.0 | 33.7 |
| 50°-60° | 4392.8 | 20.3 |
| 60°-70° | 508.1 | 2.3 |
| 70°-80° | 98.3 | 0.5 |
| 80°-90° | 22.8 | 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° | 21640.0 | 100.0 |
| 0°-180° | 21640.0 | 100.0 |

Coefficient of Utilization

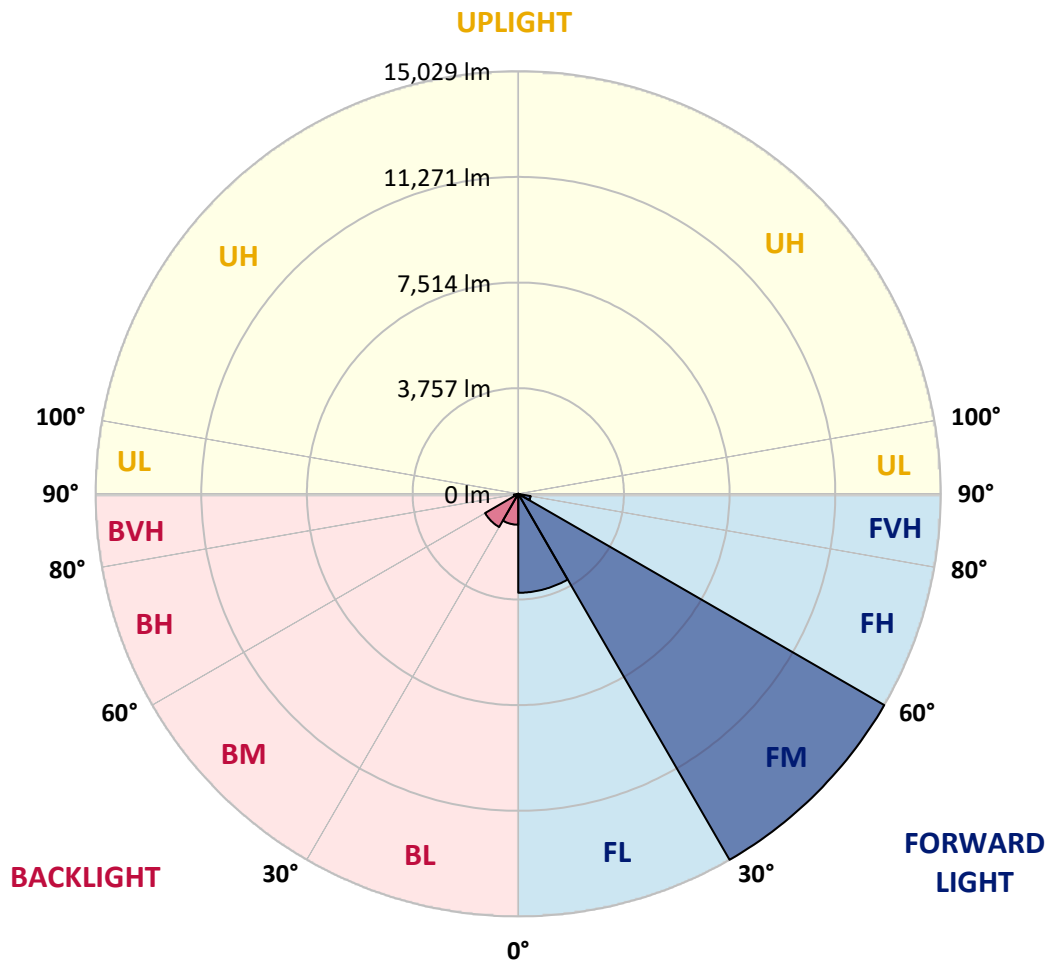


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 3518.4 | 16.3 | | | |
| FM (30°-60°) | 15028.6 | 69.4 | | | |
| FH (60°-80°) | 447.4 | 2.1 | | | G0/660 |
| FVH (80°-90°) | 10.8 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1100.7 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 1363.2 | 6.3 | B2/2500 | | |
| BH (60°-80°) | 159.0 | 0.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 11.9 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6249.3 | 6249.3 | 6249.3 | 6249.3 | 6249.3 | 6249.3 | 6249.3 | 6249.3 | 6249.3 | 6249.3 | 6249.3 |
| 2.5° | 7574.2 | 7400.7 | 7416.5 | 7302.9 | 7236.7 | 7129.4 | 6984.3 | 6955.9 | 6798.2 | 6583.7 | 6366.0 |
| 5° | 8255.6 | 8214.6 | 8268.2 | 8104.2 | 8110.5 | 7933.8 | 7593.1 | 7599.4 | 7236.7 | 6886.5 | 6549.0 |
| 7.5° | 8299.8 | 8205.1 | 8258.8 | 8403.9 | 8489.0 | 8457.5 | 8265.1 | 8097.9 | 7754.0 | 7239.8 | 6747.7 |
| 10° | 7432.2 | 7612.1 | 7668.8 | 7908.6 | 8249.3 | 8608.9 | 8586.8 | 8596.3 | 8309.2 | 7637.3 | 6918.0 |
| 12.5° | 6911.7 | 6791.9 | 6984.3 | 7129.4 | 7643.6 | 8340.8 | 8659.4 | 8728.8 | 8750.9 | 8022.2 | 7088.4 |
| 15° | 6675.1 | 6675.1 | 6706.7 | 6747.7 | 7119.9 | 7763.5 | 8413.3 | 8615.2 | 9091.6 | 8526.9 | 7356.5 |
| 17.5° | 6823.4 | 6817.1 | 6861.3 | 6776.1 | 6914.9 | 7410.2 | 8186.2 | 8416.5 | 9473.3 | 9022.2 | 7567.9 |
| 20° | 7274.5 | 7296.6 | 7268.2 | 7022.2 | 7031.6 | 7403.9 | 7933.8 | 8296.6 | 9732.0 | 9451.2 | 7848.7 |
| 22.5° | 7902.3 | 7914.9 | 7754.0 | 7485.9 | 7407.0 | 7590.0 | 8078.9 | 8356.5 | 9940.2 | 9965.4 | 7933.8 |
| 25° | 8627.8 | 8577.4 | 8545.8 | 8167.3 | 7927.5 | 8085.3 | 8407.0 | 8567.9 | 10069.5 | 10407.0 | 8176.7 |
| 27.5° | 9634.2 | 9533.2 | 9340.8 | 9003.2 | 8826.6 | 8602.6 | 8832.9 | 9097.9 | 10438.6 | 11025.3 | 8441.7 |
| 30° | 11120.0 | 11031.7 | 10656.3 | 10220.9 | 9757.2 | 9536.4 | 9608.9 | 9754.0 | 11104.2 | 11741.4 | 8791.9 |
| 32.5° | 13356.6 | 13170.5 | 12627.9 | 11798.2 | 11167.3 | 10558.5 | 10539.5 | 10694.1 | 11700.4 | 12732.0 | 9208.3 |
| 35° | 15820.3 | 15763.6 | 14965.4 | 14110.5 | 12889.7 | 11949.6 | 11965.4 | 12047.4 | 12842.4 | 14031.7 | 9754.0 |
| 37.5° | 17457.6 | 17769.9 | 17262.0 | 16344.0 | 15318.8 | 13974.9 | 13634.2 | 13662.6 | 14410.2 | 15571.1 | 10738.3 |
| 40° | 18722.6 | 18457.6 | 18517.5 | 18303.0 | 17602.7 | 16687.9 | 15933.9 | 15785.6 | 16224.1 | 17274.6 | 11716.2 |
| 42.5° | 18170.5 | 18183.1 | 18552.2 | 19060.1 | 19233.6 | 19167.4 | 18397.7 | 18116.9 | 17776.2 | 18669.0 | 12646.8 |
| 45° | 16612.2 | 16937.1 | 17416.6 | 18760.4 | 19940.3 | 21047.5 | 20896.1 | 20429.2 | 18848.8 | 19773.1 | 13183.1 |
| 47.5° | 14126.3 | 14113.7 | 14899.2 | 16646.9 | 19268.3 | 21861.4 | 22549.1 | 22221.0 | 19609.0 | 19650.0 | 13072.7 |
| 48° | 13208.3 | 13435.5 | 14246.2 | 16303.0 | 18842.5 | 21741.5 | 22697.4 | 22284.1 | 19479.7 | 19486.0 | 12978.0 |
| 50° | 9763.5 | 9722.5 | 10732.0 | 13255.7 | 16829.8 | 20429.2 | 22072.8 | 22394.5 | 19476.5 | 18656.3 | 12315.6 |
| 52.5° | 5157.8 | 5334.4 | 6069.5 | 8334.5 | 11899.2 | 16719.4 | 19470.2 | 19971.8 | 18788.8 | 17299.9 | 11362.9 |
| 55° | 2192.5 | 1981.1 | 2545.8 | 3763.4 | 6694.1 | 11170.5 | 14284.1 | 15400.8 | 15886.6 | 15309.3 | 9940.2 |
| 57.5° | 782.3 | 854.9 | 984.2 | 1416.4 | 2813.9 | 6113.6 | 8517.4 | 9384.9 | 11006.4 | 11233.5 | 6772.9 |
| 60° | 501.6 | 511.0 | 552.1 | 649.8 | 1056.8 | 2356.5 | 4041.0 | 4731.9 | 5466.9 | 5643.6 | 3160.9 |
| 62.5° | 388.0 | 391.2 | 410.1 | 425.9 | 501.6 | 914.8 | 1517.4 | 1798.1 | 1867.5 | 1605.7 | 829.7 |
| 65° | 324.9 | 328.1 | 334.4 | 334.4 | 356.5 | 429.0 | 530.0 | 583.6 | 567.8 | 561.5 | 470.0 |
| 67.5° | 249.2 | 255.5 | 268.1 | 268.1 | 280.8 | 261.8 | 293.4 | 312.3 | 353.3 | 429.0 | 400.6 |
| 70° | 195.6 | 198.7 | 208.2 | 214.5 | 214.5 | 189.3 | 211.4 | 230.3 | 258.7 | 318.6 | 315.5 |
| 72.5° | 151.4 | 157.7 | 164.0 | 164.0 | 154.6 | 129.3 | 151.4 | 167.2 | 186.1 | 220.8 | 214.5 |
| 75° | 116.7 | 116.7 | 119.9 | 97.8 | 75.7 | 66.2 | 91.5 | 110.4 | 138.8 | 145.1 | 119.9 |
| 77.5° | 31.5 | 34.7 | 31.5 | 28.4 | 31.5 | 47.3 | 59.9 | 69.4 | 88.3 | 88.3 | 78.9 |
| 80° | 0.0 | 3.2 | 9.5 | 18.9 | 31.5 | 44.2 | 53.6 | 59.9 | 69.4 | 75.7 | 72.6 |
| 82.5° | 0.0 | 3.2 | 9.5 | 18.9 | 28.4 | 34.7 | 47.3 | 50.5 | 56.8 | 66.2 | 66.2 |
| 85° | 0.0 | 3.2 | 6.3 | 12.6 | 18.9 | 22.1 | 22.1 | 18.9 | 18.9 | 15.8 | 12.6 |
| 87.5° | 0.0 | 0.0 | 3.2 | 6.3 | 6.3 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 |
| 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° | 6249.3 | 6249.3 | 6249.3 | 6249.3 | 6249.3 | 6249.3 | 6249.3 | 6249.3 | 6249.3 | 6249.3 | 6249.3 |
| 2.5° | 6280.8 | 6183.0 | 6034.8 | 5801.3 | 5577.3 | 5432.2 | 5293.4 | 5138.9 | 5053.7 | 5047.4 | 5000.0 |
| 5° | 6356.5 | 6135.7 | 5782.4 | 5381.8 | 4952.7 | 4583.6 | 4211.4 | 3968.5 | 3750.8 | 3631.0 | 3608.9 |
| 7.5° | 6397.5 | 6110.5 | 5539.5 | 4867.6 | 4135.7 | 3533.2 | 3116.7 | 2810.8 | 2690.9 | 2602.5 | 2599.4 |
| 10° | 6482.7 | 6066.3 | 5176.7 | 4186.2 | 3280.8 | 2672.0 | 2384.9 | 2246.1 | 2179.8 | 2154.6 | 2116.7 |
| 12.5° | 6545.8 | 5984.3 | 4804.5 | 3485.8 | 2593.1 | 2214.5 | 2088.3 | 2056.8 | 2060.0 | 2072.6 | 2056.8 |
| 15° | 6634.1 | 5911.7 | 4302.9 | 2861.2 | 2176.7 | 1993.7 | 1993.7 | 2000.0 | 2044.2 | 2050.5 | 2047.3 |
| 17.5° | 6627.8 | 5769.8 | 3785.5 | 2356.5 | 1924.3 | 1899.1 | 1908.5 | 1968.5 | 1996.9 | 2006.3 | 1984.2 |
| 20° | 6703.5 | 5637.3 | 3252.4 | 2012.6 | 1782.4 | 1820.2 | 1883.3 | 1899.1 | 1933.8 | 1940.1 | 1914.8 |
| 22.5° | 6681.5 | 5306.0 | 2757.1 | 1741.3 | 1675.1 | 1747.7 | 1810.7 | 1829.7 | 1820.2 | 1801.3 | 1798.1 |
| 25° | 6640.4 | 5022.1 | 2302.9 | 1561.5 | 1596.2 | 1675.1 | 1735.0 | 1700.3 | 1681.4 | 1684.6 | 1687.7 |
| 27.5° | 6567.9 | 4662.5 | 1927.5 | 1435.3 | 1489.0 | 1605.7 | 1602.5 | 1589.9 | 1608.8 | 1593.1 | 1608.8 |
| 30° | 6555.3 | 4302.9 | 1618.3 | 1321.8 | 1410.1 | 1495.3 | 1501.6 | 1523.7 | 1545.8 | 1517.4 | 1545.8 |
| 32.5° | 6574.2 | 3908.6 | 1397.5 | 1252.4 | 1362.8 | 1365.9 | 1435.3 | 1457.4 | 1441.7 | 1378.6 | 1384.9 |
| 35° | 6719.3 | 3605.7 | 1236.6 | 1214.5 | 1287.1 | 1290.2 | 1356.5 | 1328.1 | 1258.7 | 1220.8 | 1242.9 |
| 37.5° | 7025.3 | 3353.3 | 1160.9 | 1179.8 | 1186.1 | 1227.1 | 1230.3 | 1173.5 | 1179.8 | 1176.7 | 1189.3 |
| 40° | 7416.5 | 3160.9 | 1107.3 | 1148.3 | 1142.0 | 1170.4 | 1056.8 | 1088.3 | 1116.7 | 1126.2 | 1132.5 |
| 42.5° | 7684.6 | 3022.1 | 1072.6 | 1097.8 | 1085.2 | 1034.7 | 971.6 | 1003.2 | 1025.2 | 1059.9 | 1066.3 |
| 45° | 7804.5 | 2911.7 | 1031.6 | 1009.5 | 1009.5 | 918.0 | 892.8 | 899.1 | 949.5 | 987.4 | 981.1 |
| 47.5° | 7608.9 | 2804.4 | 959.0 | 892.8 | 914.8 | 839.1 | 810.7 | 810.7 | 864.4 | 911.7 | 902.2 |
| 48° | 7533.2 | 2760.3 | 962.2 | 867.5 | 883.3 | 826.5 | 798.1 | 791.8 | 851.7 | 895.9 | 895.9 |
| 50° | 7157.8 | 2596.2 | 880.1 | 798.1 | 766.6 | 760.3 | 741.3 | 747.6 | 785.5 | 826.5 | 826.5 |
| 52.5° | 6425.9 | 2242.9 | 744.5 | 684.5 | 627.8 | 665.6 | 675.1 | 662.5 | 681.4 | 719.2 | 716.1 |
| 55° | 5362.8 | 1722.4 | 596.2 | 567.8 | 523.7 | 564.7 | 583.6 | 567.8 | 548.9 | 577.3 | 577.3 |
| 57.5° | 3435.4 | 927.5 | 476.3 | 482.7 | 438.5 | 479.5 | 495.3 | 457.4 | 422.7 | 444.8 | 441.6 |
| 60° | 1548.9 | 555.2 | 391.2 | 381.7 | 353.3 | 400.6 | 425.9 | 381.7 | 334.4 | 350.2 | 365.9 |
| 62.5° | 580.4 | 394.3 | 296.5 | 290.2 | 283.9 | 328.1 | 340.7 | 306.0 | 258.7 | 268.1 | 271.3 |
| 65° | 425.9 | 347.0 | 236.6 | 214.5 | 227.1 | 258.7 | 252.4 | 217.7 | 186.1 | 186.1 | 192.4 |
| 67.5° | 362.8 | 302.8 | 192.4 | 167.2 | 167.2 | 170.3 | 157.7 | 138.8 | 129.3 | 135.6 | 142.0 |
| 70° | 283.9 | 239.7 | 151.4 | 129.3 | 116.7 | 104.1 | 91.5 | 88.3 | 78.9 | 88.3 | 85.2 |
| 72.5° | 183.0 | 160.9 | 116.7 | 97.8 | 88.3 | 72.6 | 59.9 | 56.8 | 47.3 | 44.2 | 44.2 |
| 75° | 97.8 | 97.8 | 91.5 | 78.9 | 69.4 | 56.8 | 47.3 | 37.9 | 25.2 | 18.9 | 18.9 |
| 77.5° | 69.4 | 75.7 | 82.0 | 75.7 | 63.1 | 47.3 | 37.9 | 25.2 | 12.6 | 6.3 | 6.3 |
| 80° | 66.2 | 75.7 | 82.0 | 72.6 | 63.1 | 47.3 | 34.7 | 18.9 | 9.5 | 3.2 | 3.2 |
| 82.5° | 59.9 | 69.4 | 75.7 | 66.2 | 56.8 | 41.0 | 31.5 | 18.9 | 9.5 | 3.2 | 3.2 |
| 85° | 12.6 | 15.8 | 18.9 | 18.9 | 22.1 | 28.4 | 22.1 | 15.8 | 6.3 | 3.2 | 3.2 |
| 87.5° | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 6.3 | 6.3 | 3.2 | 3.2 | 3.2 |
| 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)