

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: P526321

Luminaire Tested: **GALN-SA1B-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-730-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3189 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

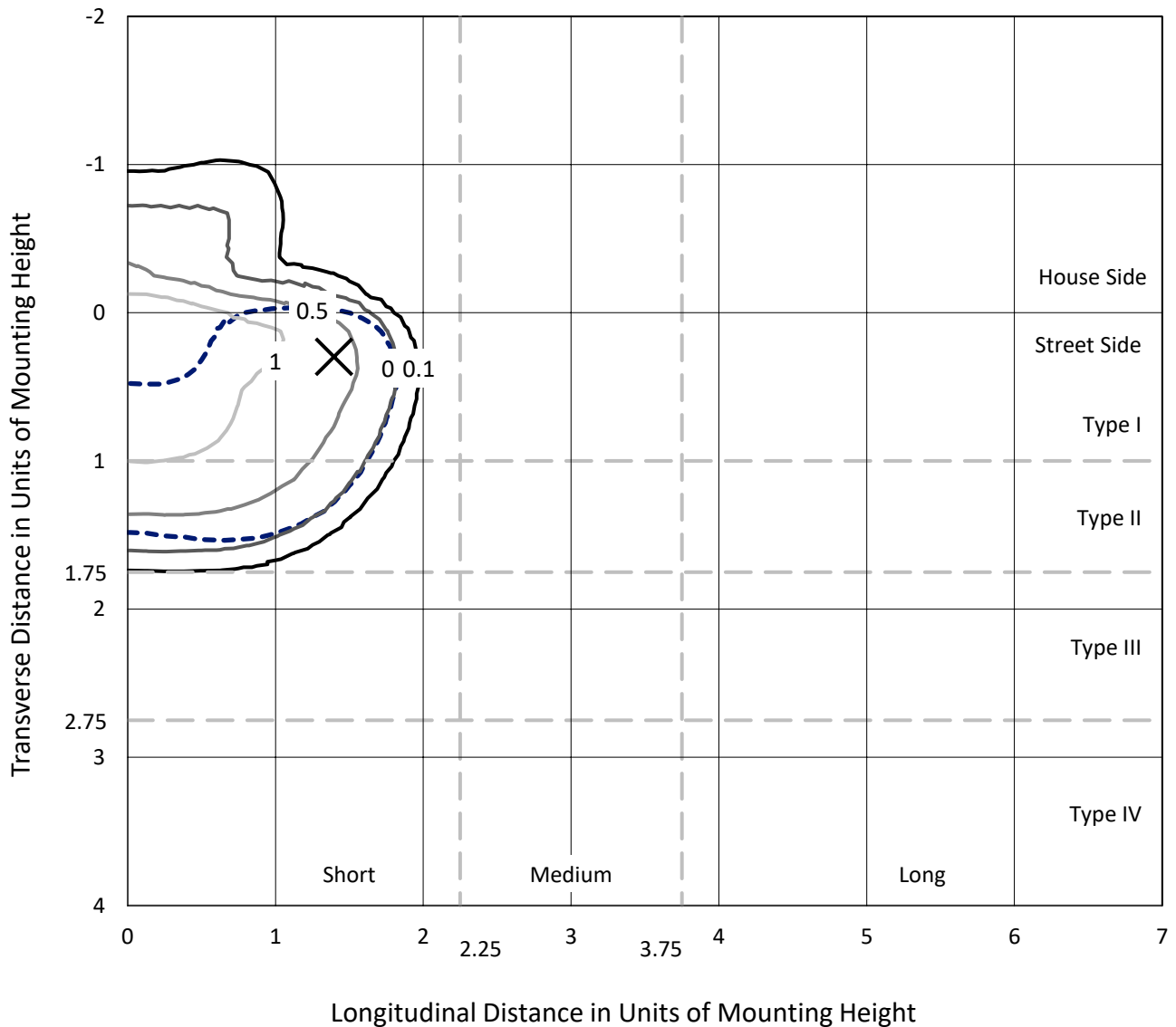
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

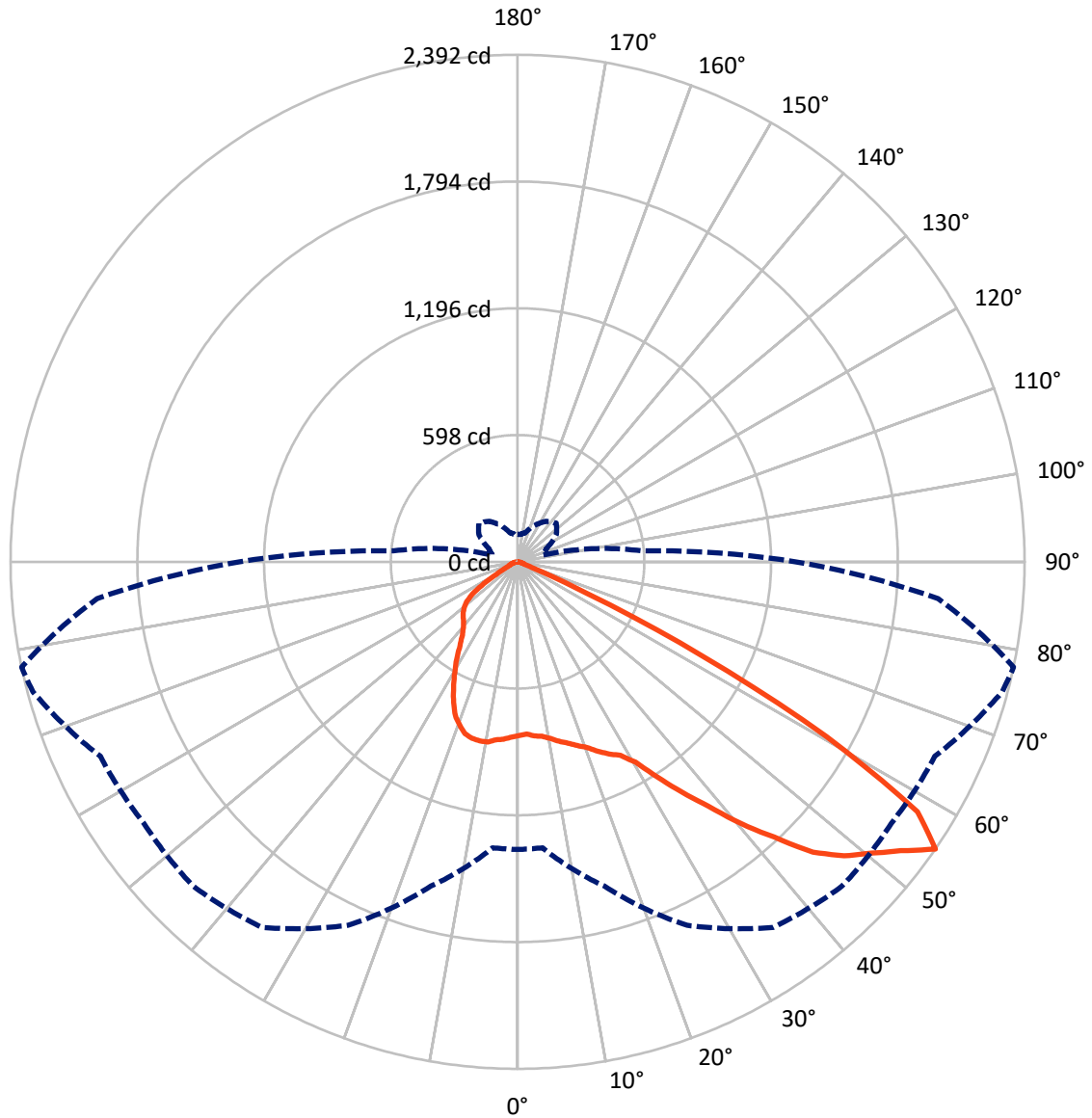
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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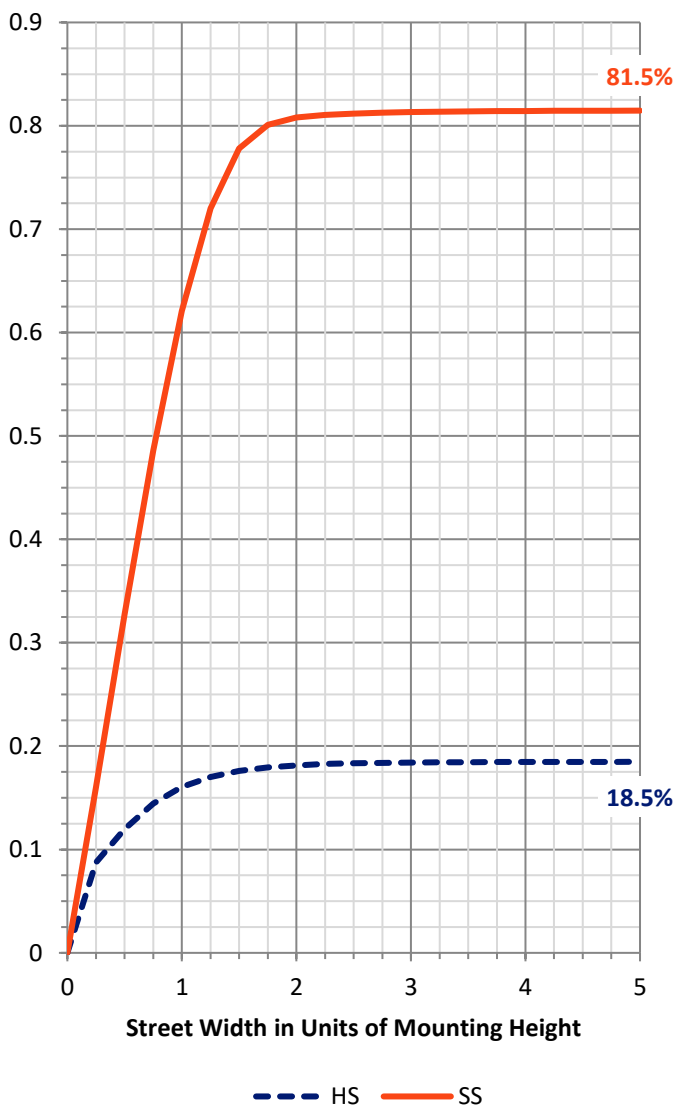
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 592.3 | 0.0 | 592.3 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 2596.7 | 0.0 | 2596.7 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 3189.0 | 0.0 | 3189.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 73.1 | 2.3 |
| 10°-20° | 193.5 | 6.1 |
| 20°-30° | 339.1 | 10.6 |
| 30°-40° | 559.2 | 17.5 |
| 40°-50° | 813.7 | 25.5 |
| 50°-60° | 922.0 | 28.9 |
| 60°-70° | 263.6 | 8.3 |
| 70°-80° | 20.5 | 0.6 |
| 80°-90° | 4.3 | 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° | 3189.0 | 100.0 |
| 0°-180° | 3189.0 | 100.0 |

Coefficient of Utilization



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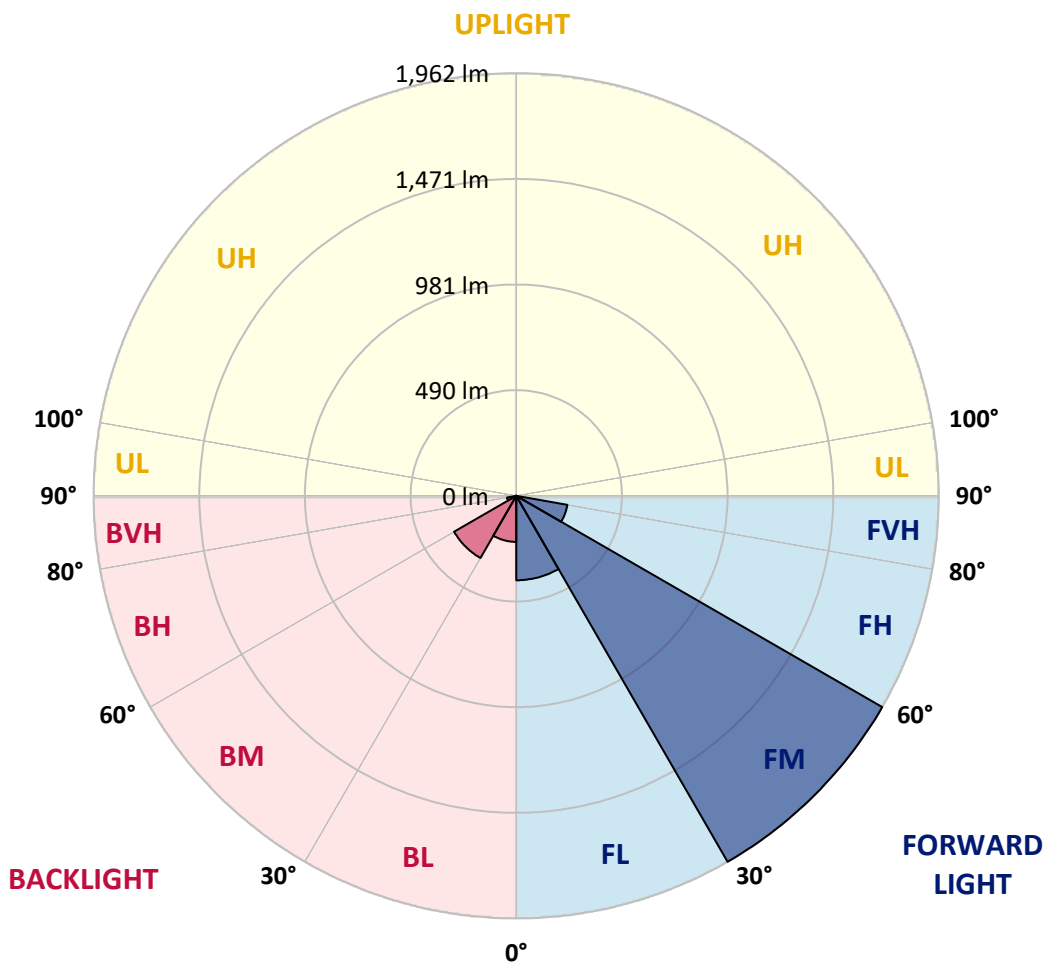
CATALOG NUMBER: GALN-SA1B-730-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 392.0 | 12.3 | | | |
| FM (30°-60°) | 1961.7 | 61.5 | | | |
| FH (60°-80°) | 240.9 | 7.6 | | | G0/660 |
| FVH (80°-90°) | 2.1 | 0.1 | | | G0/10 |
| BL (0°-30°) | 213.7 | 6.7 | B1/500 | | |
| BM (30°-60°) | 333.2 | 10.4 | B1/1000 | | |
| BH (60°-80°) | 43.2 | 1.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 2.2 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 819.9 | 819.9 | 819.9 | 819.9 | 819.9 | 819.9 | 819.9 | 819.9 | 819.9 | 819.9 | 819.9 |
| 2.5° | 770.9 | 778.3 | 779.4 | 788.5 | 788.0 | 803.4 | 807.9 | 808.5 | 818.8 | 813.6 | 826.7 |
| 5° | 749.2 | 745.2 | 743.5 | 759.5 | 764.0 | 777.7 | 789.1 | 795.9 | 817.0 | 824.5 | 838.1 |
| 7.5° | 729.8 | 729.8 | 730.9 | 745.2 | 743.5 | 761.2 | 773.1 | 794.2 | 825.0 | 831.3 | 847.8 |
| 10° | 711.0 | 704.2 | 712.7 | 727.5 | 740.1 | 748.1 | 773.1 | 793.1 | 829.0 | 847.3 | 870.1 |
| 12.5° | 701.3 | 704.7 | 705.9 | 716.7 | 730.4 | 754.3 | 768.0 | 801.1 | 857.5 | 868.4 | 892.9 |
| 15° | 762.3 | 755.5 | 738.9 | 729.2 | 740.6 | 752.0 | 786.3 | 819.9 | 872.3 | 887.7 | 915.1 |
| 17.5° | 833.0 | 827.3 | 813.6 | 787.4 | 761.7 | 782.8 | 809.6 | 840.4 | 888.3 | 911.1 | 951.6 |
| 20° | 925.4 | 916.3 | 902.6 | 851.3 | 829.0 | 806.2 | 834.7 | 871.2 | 914.5 | 935.1 | 976.7 |
| 22.5° | 1035.4 | 1035.4 | 1004.6 | 942.5 | 896.3 | 874.6 | 886.6 | 907.7 | 943.6 | 971.6 | 1012.6 |
| 25° | 1150.0 | 1146.6 | 1118.7 | 1054.2 | 976.1 | 950.5 | 964.1 | 979.0 | 988.7 | 1004.1 | 1031.4 |
| 27.5° | 1281.2 | 1261.2 | 1225.8 | 1154.6 | 1085.6 | 1036.0 | 1050.8 | 1037.7 | 1025.7 | 1033.7 | 1073.0 |
| 30° | 1370.1 | 1382.6 | 1337.6 | 1269.2 | 1204.2 | 1148.9 | 1151.7 | 1140.3 | 1085.6 | 1097.0 | 1120.4 |
| 32.5° | 1462.5 | 1470.4 | 1445.4 | 1407.7 | 1342.7 | 1278.3 | 1254.9 | 1245.2 | 1204.2 | 1209.3 | 1186.5 |
| 35° | 1539.4 | 1554.8 | 1532.6 | 1516.1 | 1497.2 | 1445.4 | 1380.9 | 1412.3 | 1346.2 | 1333.6 | 1274.3 |
| 37.5° | 1610.1 | 1605.6 | 1631.8 | 1614.7 | 1610.7 | 1574.2 | 1503.5 | 1509.8 | 1465.3 | 1462.5 | 1394.0 |
| 40° | 1673.4 | 1674.6 | 1710.5 | 1718.5 | 1702.5 | 1637.5 | 1534.9 | 1584.5 | 1620.4 | 1623.8 | 1536.0 |
| 42.5° | 1725.9 | 1741.3 | 1772.1 | 1836.5 | 1812.5 | 1704.2 | 1567.4 | 1621.5 | 1755.0 | 1776.1 | 1670.6 |
| 45° | 1771.5 | 1802.9 | 1841.1 | 1898.6 | 1885.0 | 1798.9 | 1648.3 | 1697.9 | 1898.6 | 1953.9 | 1797.2 |
| 47.5° | 1774.3 | 1815.4 | 1857.0 | 1942.5 | 1959.6 | 1849.6 | 1732.2 | 1818.8 | 2012.7 | 2072.5 | 1889.5 |
| 50° | 1762.9 | 1784.6 | 1867.9 | 1960.8 | 1999.6 | 1932.3 | 1849.6 | 1920.3 | 2123.3 | 2160.9 | 1936.3 |
| 52.5° | 1627.8 | 1644.3 | 1811.4 | 1977.9 | 2071.4 | 2025.8 | 2005.3 | 2061.7 | 2236.2 | 2264.1 | 1980.2 |
| 55° | 1357.0 | 1354.1 | 1583.9 | 1891.8 | 2104.5 | 2164.3 | 2151.8 | 2171.7 | 2366.7 | 2391.8 | 1991.0 |
| 57.5° | 928.2 | 980.1 | 1178.5 | 1575.4 | 1902.1 | 2131.8 | 2145.0 | 2111.9 | 2214.5 | 2224.2 | 1735.6 |
| 60° | 500.6 | 522.3 | 681.9 | 1051.4 | 1448.2 | 1737.3 | 1771.5 | 1711.6 | 1703.6 | 1676.3 | 1239.0 |
| 62.5° | 199.0 | 209.8 | 300.5 | 520.6 | 789.1 | 1055.9 | 1129.5 | 1105.0 | 1052.5 | 980.7 | 641.4 |
| 65° | 94.6 | 101.5 | 149.4 | 243.5 | 350.1 | 440.2 | 513.7 | 536.5 | 395.7 | 356.4 | 211.5 |
| 67.5° | 64.4 | 69.6 | 108.9 | 139.1 | 124.9 | 130.6 | 169.9 | 157.9 | 92.9 | 79.3 | 58.7 |
| 70° | 49.0 | 52.5 | 87.2 | 94.6 | 55.9 | 39.3 | 43.9 | 41.1 | 38.2 | 38.8 | 38.2 |
| 72.5° | 34.8 | 37.6 | 63.9 | 55.9 | 24.5 | 18.2 | 23.4 | 27.9 | 27.9 | 27.9 | 27.4 |
| 75° | 21.1 | 23.9 | 37.1 | 21.7 | 9.7 | 9.7 | 14.8 | 18.8 | 20.0 | 20.5 | 19.4 |
| 77.5° | 10.8 | 13.7 | 12.5 | 6.3 | 6.3 | 7.4 | 10.8 | 13.1 | 14.3 | 14.3 | 13.7 |
| 80° | 2.3 | 2.3 | 2.3 | 3.4 | 6.3 | 8.0 | 10.8 | 12.0 | 13.7 | 13.7 | 12.5 |
| 82.5° | 0.0 | 0.6 | 1.7 | 3.4 | 5.7 | 7.4 | 10.3 | 12.0 | 13.7 | 14.3 | 13.1 |
| 85° | 0.0 | 0.6 | 1.1 | 2.3 | 4.0 | 4.6 | 4.0 | 3.4 | 3.4 | 3.4 | 3.4 |
| 87.5° | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 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° | 819.9 | 819.9 | 819.9 | 819.9 | 819.9 | 819.9 | 819.9 | 819.9 | 819.9 | 819.9 | 819.9 |
| 2.5° | 827.9 | 829.6 | 826.7 | 826.2 | 823.9 | 830.7 | 814.2 | 810.2 | 820.5 | 810.8 | 813.1 |
| 5° | 838.7 | 842.7 | 837.6 | 829.0 | 816.5 | 797.1 | 780.6 | 758.9 | 748.6 | 741.2 | 740.1 |
| 7.5° | 846.7 | 849.5 | 844.4 | 817.0 | 779.4 | 730.4 | 693.9 | 667.1 | 646.0 | 639.7 | 629.5 |
| 10° | 879.2 | 879.8 | 854.1 | 793.7 | 720.1 | 655.7 | 599.8 | 558.8 | 537.7 | 524.5 | 518.8 |
| 12.5° | 900.9 | 899.7 | 847.8 | 747.5 | 649.4 | 563.9 | 500.0 | 450.4 | 431.0 | 424.8 | 420.8 |
| 15° | 928.2 | 922.0 | 833.0 | 700.2 | 558.2 | 465.8 | 408.2 | 374.0 | 372.3 | 368.3 | 372.3 |
| 17.5° | 949.9 | 932.2 | 811.3 | 614.1 | 471.0 | 383.7 | 346.1 | 348.4 | 352.9 | 356.9 | 357.5 |
| 20° | 985.2 | 948.8 | 761.7 | 538.8 | 390.0 | 329.0 | 328.4 | 338.7 | 350.1 | 354.6 | 359.2 |
| 22.5° | 1012.0 | 955.6 | 708.7 | 458.4 | 323.9 | 306.7 | 316.4 | 331.8 | 340.4 | 344.9 | 351.8 |
| 25° | 1021.7 | 936.8 | 638.0 | 378.0 | 291.9 | 296.5 | 311.3 | 321.6 | 332.4 | 337.5 | 334.7 |
| 27.5° | 1031.4 | 927.1 | 553.6 | 311.3 | 274.8 | 289.6 | 302.2 | 312.4 | 315.9 | 322.7 | 327.3 |
| 30° | 1054.8 | 893.4 | 477.8 | 269.1 | 266.3 | 285.1 | 294.2 | 297.6 | 306.7 | 310.7 | 310.7 |
| 32.5° | 1073.6 | 880.3 | 397.4 | 249.2 | 265.1 | 287.4 | 288.5 | 288.5 | 289.6 | 286.8 | 285.7 |
| 35° | 1112.4 | 835.3 | 325.6 | 237.2 | 264.6 | 287.9 | 290.8 | 281.1 | 254.9 | 244.6 | 241.7 |
| 37.5° | 1160.3 | 806.2 | 272.5 | 234.3 | 268.5 | 294.8 | 299.3 | 262.8 | 228.6 | 212.1 | 209.2 |
| 40° | 1218.4 | 785.7 | 237.8 | 233.2 | 277.7 | 310.7 | 297.1 | 248.6 | 204.1 | 180.2 | 179.0 |
| 42.5° | 1286.3 | 766.9 | 214.4 | 232.6 | 289.1 | 327.3 | 294.8 | 236.6 | 179.0 | 163.1 | 165.3 |
| 45° | 1340.5 | 756.6 | 198.4 | 228.6 | 293.1 | 337.0 | 296.5 | 215.5 | 168.8 | 158.5 | 159.6 |
| 47.5° | 1382.6 | 734.9 | 185.3 | 221.8 | 292.5 | 340.4 | 281.1 | 207.0 | 163.6 | 166.5 | 169.3 |
| 50° | 1383.8 | 705.9 | 168.8 | 207.0 | 283.9 | 334.1 | 263.4 | 199.0 | 162.5 | 174.5 | 180.2 |
| 52.5° | 1368.4 | 664.8 | 151.1 | 185.9 | 264.0 | 312.4 | 247.5 | 195.6 | 157.4 | 156.2 | 163.1 |
| 55° | 1313.7 | 587.8 | 121.4 | 150.5 | 222.9 | 257.7 | 233.2 | 189.3 | 142.0 | 128.9 | 130.0 |
| 57.5° | 1061.6 | 421.4 | 89.5 | 107.8 | 157.9 | 188.7 | 210.4 | 186.4 | 127.7 | 109.5 | 110.0 |
| 60° | 657.4 | 238.9 | 65.6 | 73.6 | 97.5 | 114.6 | 170.5 | 173.3 | 114.0 | 92.4 | 91.2 |
| 62.5° | 337.5 | 118.0 | 50.7 | 51.9 | 59.9 | 67.3 | 116.9 | 145.4 | 103.2 | 87.8 | 87.8 |
| 65° | 112.9 | 58.2 | 44.5 | 39.9 | 39.9 | 41.6 | 70.7 | 100.9 | 87.2 | 73.6 | 73.6 |
| 67.5° | 48.5 | 43.3 | 38.8 | 34.8 | 31.9 | 30.2 | 39.9 | 58.7 | 65.0 | 55.9 | 53.6 |
| 70° | 37.6 | 36.5 | 33.6 | 29.1 | 25.1 | 22.8 | 23.4 | 30.2 | 37.1 | 35.9 | 34.8 |
| 72.5° | 27.9 | 27.9 | 26.8 | 22.8 | 19.4 | 16.5 | 15.4 | 16.0 | 17.7 | 18.2 | 18.8 |
| 75° | 19.4 | 20.0 | 20.0 | 17.7 | 14.3 | 12.0 | 10.3 | 8.6 | 6.8 | 5.7 | 5.1 |
| 77.5° | 13.1 | 13.7 | 14.8 | 13.1 | 10.8 | 8.0 | 6.3 | 4.6 | 2.9 | 1.1 | 1.1 |
| 80° | 11.4 | 13.1 | 14.3 | 13.1 | 11.4 | 8.6 | 6.3 | 3.4 | 1.7 | 0.0 | 0.0 |
| 82.5° | 12.0 | 13.1 | 14.8 | 12.5 | 10.8 | 8.0 | 6.3 | 4.0 | 1.7 | 0.6 | 0.0 |
| 85° | 2.9 | 2.9 | 3.4 | 4.0 | 5.1 | 5.7 | 4.6 | 2.9 | 1.7 | 0.6 | 0.0 |
| 87.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 0.6 | 0.6 | 0.6 | 0.6 | 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)