

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: P528969

Luminaire Tested: **GALN-SA4A-750-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528969
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-SA4A-750-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 615mA 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: 11965 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

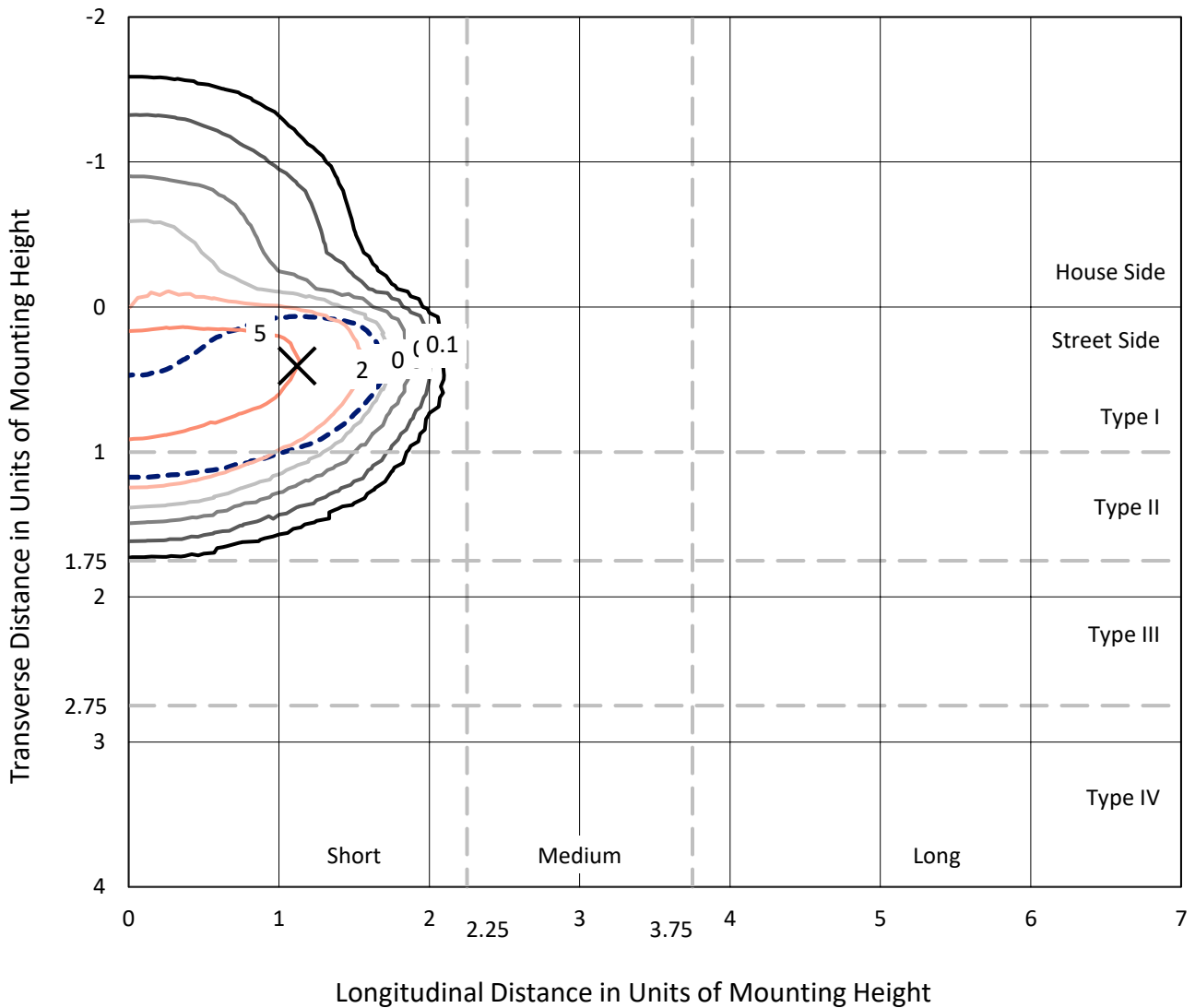
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

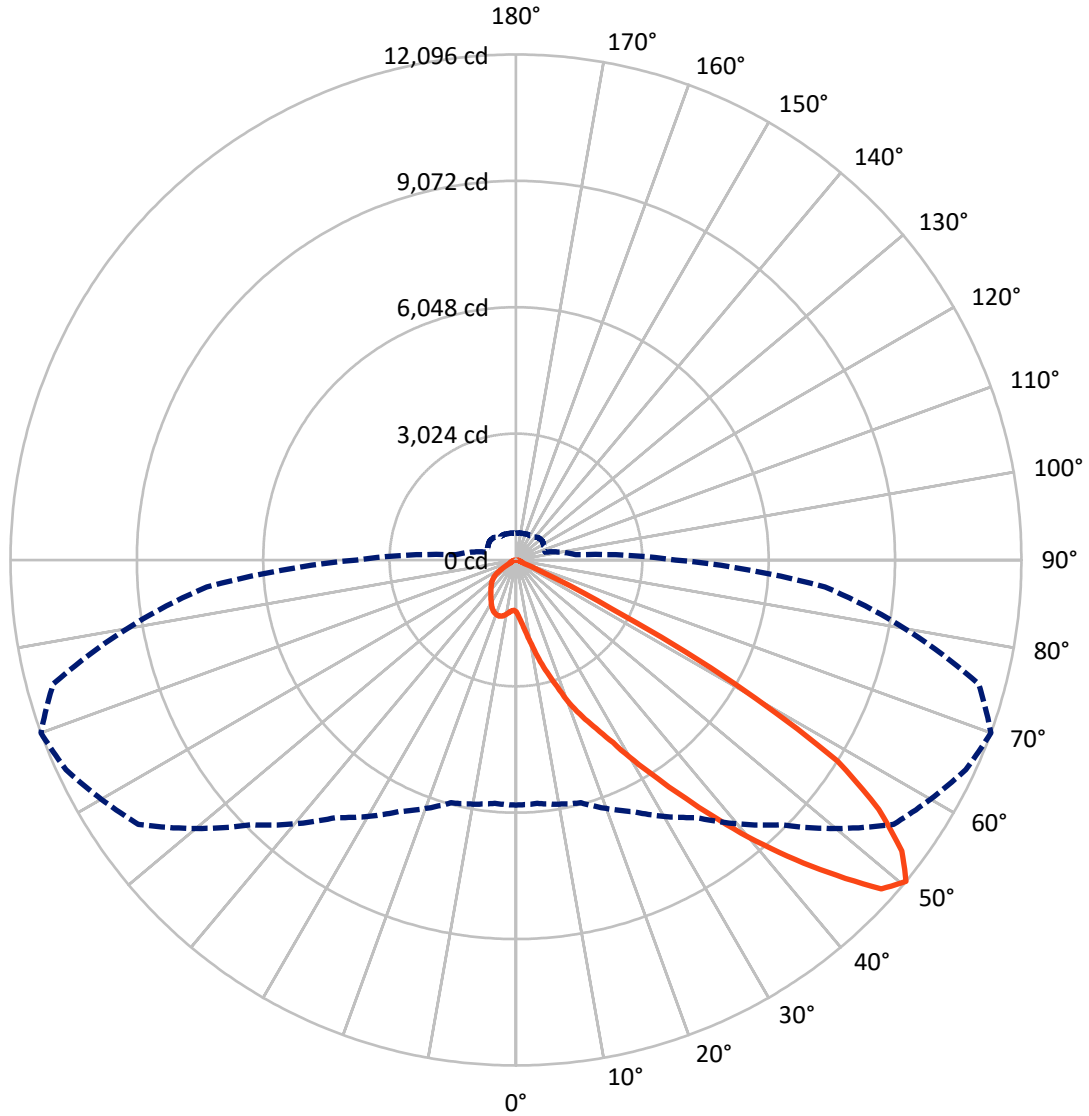
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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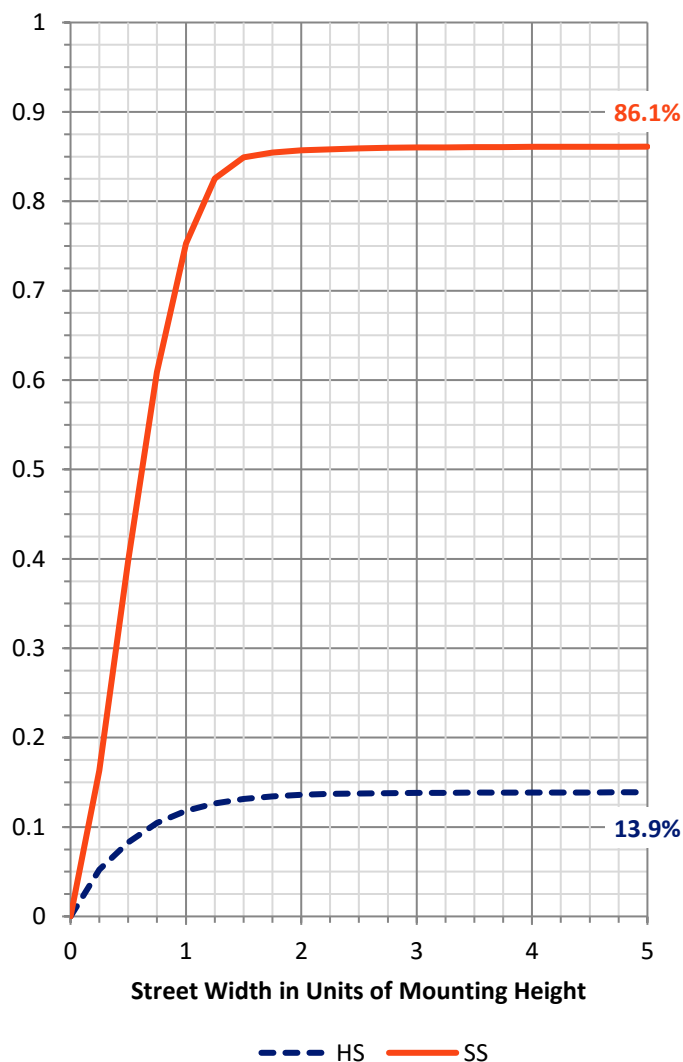
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1671.0 | 0.0 | 1671.0 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 10294.0 | 0.0 | 10294.0 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 11965.0 | 0.0 | 11965.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 161.2 | 1.3 |
| 10°-20° | 697.1 | 5.8 |
| 20°-30° | 1462.4 | 12.2 |
| 30°-40° | 2520.7 | 21.1 |
| 40°-50° | 3684.1 | 30.8 |
| 50°-60° | 2869.3 | 24.0 |
| 60°-70° | 486.1 | 4.1 |
| 70°-80° | 66.8 | 0.6 |
| 80°-90° | 17.3 | 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° | 11965.0 | 100.0 |
| 0°-180° | 11965.0 | 100.0 |

Coefficient of Utilization



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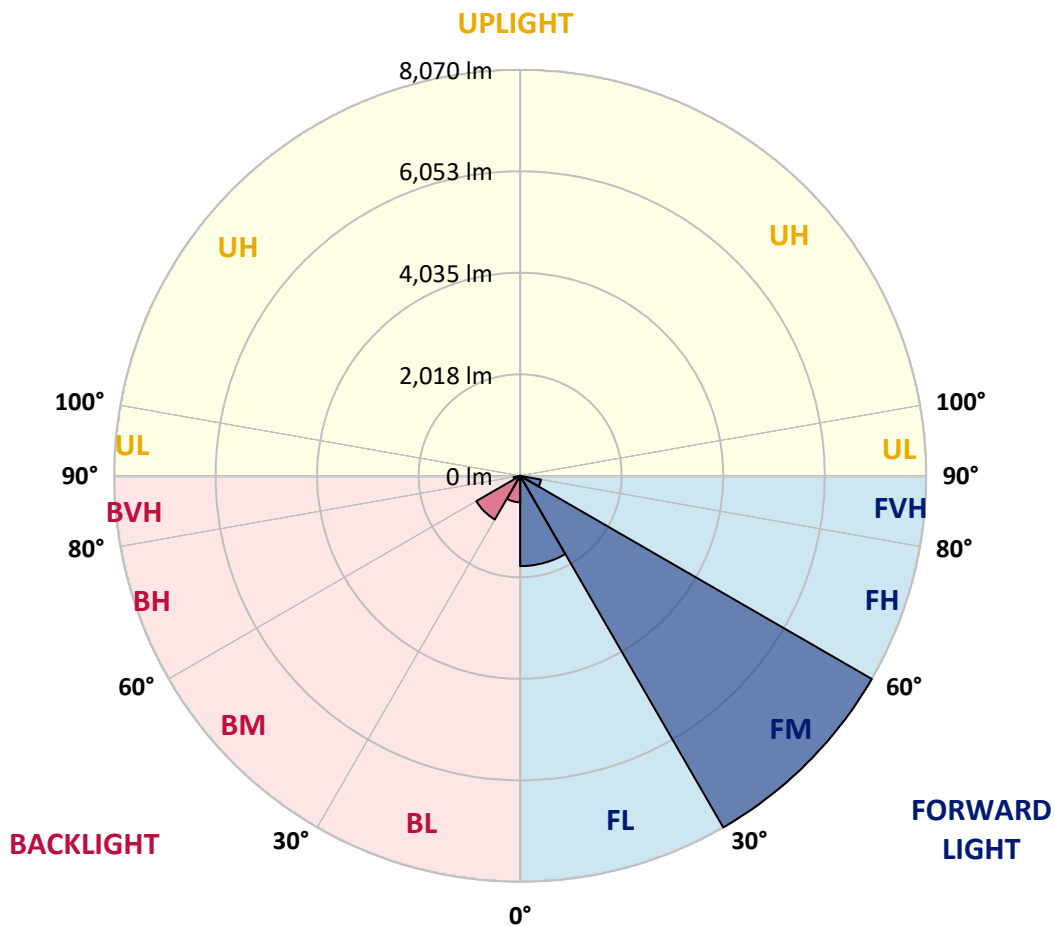
CATALOG NUMBER: GALN-SA4A-750-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1794.9 | 15.0 | | | |
| FM (30°-60°) | 8070.2 | 67.4 | | | |
| FH (60°-80°) | 420.9 | 3.5 | | | G0/660 |
| FVH (80°-90°) | 8.0 | 0.1 | | | G0/10 |
| BL (0°-30°) | 525.8 | 4.4 | B2/1000 | | |
| BM (30°-60°) | 1003.9 | 8.4 | B2/2500 | | |
| BH (60°-80°) | 132.0 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 9.3 | 0.1 | | | G0/10 |
| 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° | 1239.3 | 1239.3 | 1239.3 | 1239.3 | 1239.3 | 1239.3 | 1239.3 | 1239.3 | 1239.3 | 1239.3 | 1239.3 |
| 2.5° | 1622.9 | 1611.1 | 1585.6 | 1538.4 | 1518.7 | 1471.5 | 1443.9 | 1390.8 | 1357.4 | 1320.0 | 1278.7 |
| 5° | 2285.9 | 2224.9 | 2187.5 | 2134.4 | 1979.0 | 1882.6 | 1723.3 | 1587.5 | 1524.6 | 1455.7 | 1361.3 |
| 7.5° | 2970.5 | 2931.1 | 2880.0 | 2765.9 | 2659.7 | 2459.0 | 2185.6 | 1886.5 | 1758.7 | 1640.6 | 1453.8 |
| 10° | 3537.0 | 3426.9 | 3421.0 | 3336.4 | 3220.3 | 2980.3 | 2651.8 | 2280.0 | 2051.8 | 1878.7 | 1585.6 |
| 12.5° | 3932.4 | 3832.1 | 3877.4 | 3867.5 | 3759.3 | 3539.0 | 3159.3 | 2667.5 | 2429.5 | 2160.0 | 1721.3 |
| 15° | 4292.4 | 4251.1 | 4237.4 | 4225.6 | 4182.3 | 4019.0 | 3678.7 | 3139.7 | 2795.4 | 2470.8 | 1874.7 |
| 17.5° | 4644.6 | 4538.3 | 4589.5 | 4599.3 | 4595.4 | 4447.8 | 4129.2 | 3588.2 | 3182.9 | 2799.3 | 2036.1 |
| 20° | 4957.4 | 4967.2 | 4898.3 | 4884.6 | 4872.8 | 4866.9 | 4556.0 | 4032.8 | 3659.0 | 3143.6 | 2246.5 |
| 22.5° | 5358.7 | 5289.8 | 5350.8 | 5311.5 | 5234.7 | 5187.5 | 4949.5 | 4426.2 | 4072.1 | 3558.7 | 2461.0 |
| 25° | 5832.8 | 5887.8 | 5744.2 | 5728.5 | 5643.9 | 5480.6 | 5266.2 | 4866.9 | 4469.5 | 3944.2 | 2693.1 |
| 27.5° | 6417.0 | 6320.6 | 6283.2 | 6196.7 | 6043.3 | 5974.4 | 5722.6 | 5321.3 | 4949.5 | 4349.5 | 2917.4 |
| 30° | 6918.7 | 6893.1 | 6706.2 | 6603.9 | 6470.1 | 6468.2 | 6116.0 | 5937.0 | 5575.1 | 4984.9 | 3226.2 |
| 32.5° | 7327.8 | 7215.7 | 7146.9 | 7076.0 | 6967.8 | 6997.3 | 6700.3 | 6605.9 | 6241.9 | 5575.1 | 3590.1 |
| 35° | 7601.3 | 7520.6 | 7479.3 | 7371.1 | 7339.6 | 7471.4 | 7347.5 | 7308.2 | 7009.1 | 6405.2 | 4017.0 |
| 37.5° | 7687.8 | 7713.4 | 7705.5 | 7569.8 | 7636.7 | 7992.7 | 8152.1 | 8049.8 | 7892.4 | 7280.6 | 4479.3 |
| 40° | 7764.6 | 7782.3 | 7742.9 | 7902.3 | 8093.1 | 8498.3 | 9074.7 | 8905.5 | 8846.5 | 8167.8 | 5122.6 |
| 42.5° | 7807.8 | 7794.1 | 7794.1 | 8069.5 | 8358.6 | 9173.1 | 9965.9 | 9853.7 | 9808.5 | 9112.1 | 5866.2 |
| 45° | 7620.9 | 7487.2 | 7630.8 | 8004.6 | 8586.8 | 9505.5 | 10678.0 | 10833.4 | 10768.5 | 10235.4 | 6735.7 |
| 47.5° | 6922.6 | 7005.2 | 7085.9 | 7585.5 | 8309.5 | 9403.2 | 11114.7 | 11643.9 | 11763.9 | 11179.6 | 7306.2 |
| 50° | 5866.2 | 5848.5 | 6015.7 | 6645.2 | 7524.6 | 8962.6 | 11030.1 | 11878.0 | 12096.3 | 11462.9 | 7426.2 |
| 52.5° | 4266.9 | 4396.7 | 4577.7 | 5203.3 | 6245.9 | 7821.6 | 9938.3 | 11274.0 | 11565.2 | 11114.7 | 7347.5 |
| 55° | 2484.6 | 2341.0 | 2748.2 | 3277.4 | 4261.0 | 5899.6 | 8401.9 | 9993.4 | 10532.4 | 10481.3 | 6950.1 |
| 57.5° | 995.4 | 963.9 | 1103.6 | 1487.2 | 2222.9 | 3657.0 | 6110.1 | 8211.1 | 9074.7 | 9600.0 | 6108.2 |
| 60° | 436.7 | 426.9 | 501.6 | 605.9 | 908.8 | 1685.9 | 3342.3 | 5106.9 | 6007.8 | 6708.2 | 4203.9 |
| 62.5° | 314.8 | 310.8 | 348.2 | 385.6 | 480.0 | 733.8 | 1404.6 | 2057.7 | 2565.2 | 3098.3 | 1882.6 |
| 65° | 253.8 | 263.6 | 289.2 | 308.9 | 354.1 | 407.2 | 495.7 | 572.5 | 702.3 | 727.9 | 415.1 |
| 67.5° | 206.6 | 214.4 | 238.0 | 259.7 | 267.5 | 220.3 | 228.2 | 200.7 | 200.7 | 179.0 | 143.6 |
| 70° | 151.5 | 153.4 | 181.0 | 206.6 | 165.2 | 88.5 | 155.4 | 155.4 | 139.7 | 133.8 | 122.0 |
| 72.5° | 112.1 | 114.1 | 135.7 | 127.9 | 64.9 | 55.1 | 114.1 | 125.9 | 114.1 | 108.2 | 98.4 |
| 75° | 82.6 | 84.6 | 70.8 | 29.5 | 27.5 | 35.4 | 66.9 | 86.6 | 82.6 | 80.7 | 74.8 |
| 77.5° | 15.7 | 11.8 | 9.8 | 13.8 | 19.7 | 29.5 | 43.3 | 53.1 | 55.1 | 59.0 | 55.1 |
| 80° | 2.0 | 2.0 | 5.9 | 11.8 | 21.6 | 31.5 | 45.2 | 51.1 | 53.1 | 55.1 | 51.1 |
| 82.5° | 0.0 | 2.0 | 5.9 | 11.8 | 21.6 | 29.5 | 39.3 | 45.2 | 49.2 | 51.1 | 49.2 |
| 85° | 0.0 | 2.0 | 3.9 | 9.8 | 17.7 | 21.6 | 19.7 | 13.8 | 11.8 | 13.8 | 9.8 |
| 87.5° | 0.0 | 0.0 | 2.0 | 2.0 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 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° | 1239.3 | 1239.3 | 1239.3 | 1239.3 | 1239.3 | 1239.3 | 1239.3 | 1239.3 | 1239.3 | 1239.3 | 1239.3 |
| 2.5° | 1255.1 | 1247.2 | 1219.7 | 1190.2 | 1164.6 | 1176.4 | 1164.6 | 1154.7 | 1158.7 | 1154.7 | 1150.8 |
| 5° | 1323.9 | 1288.5 | 1229.5 | 1203.9 | 1182.3 | 1180.3 | 1174.4 | 1172.5 | 1174.4 | 1174.4 | 1156.7 |
| 7.5° | 1388.8 | 1331.8 | 1268.8 | 1241.3 | 1215.7 | 1217.7 | 1203.9 | 1203.9 | 1202.0 | 1192.1 | 1188.2 |
| 10° | 1487.2 | 1410.5 | 1329.8 | 1280.6 | 1249.2 | 1243.3 | 1229.5 | 1215.7 | 1215.7 | 1215.7 | 1196.1 |
| 12.5° | 1595.4 | 1499.0 | 1388.8 | 1331.8 | 1294.4 | 1264.9 | 1243.3 | 1239.3 | 1217.7 | 1213.8 | 1203.9 |
| 15° | 1689.8 | 1567.9 | 1428.2 | 1349.5 | 1302.3 | 1262.9 | 1229.5 | 1207.9 | 1198.0 | 1192.1 | 1184.3 |
| 17.5° | 1782.3 | 1626.9 | 1449.8 | 1349.5 | 1298.4 | 1253.1 | 1217.7 | 1198.0 | 1174.4 | 1178.4 | 1162.6 |
| 20° | 1906.2 | 1689.8 | 1455.7 | 1323.9 | 1261.0 | 1217.7 | 1170.5 | 1160.7 | 1146.9 | 1135.1 | 1139.0 |
| 22.5° | 2026.2 | 1735.1 | 1438.0 | 1292.5 | 1202.0 | 1150.8 | 1127.2 | 1115.4 | 1109.5 | 1099.7 | 1085.9 |
| 25° | 2134.4 | 1784.3 | 1410.5 | 1235.4 | 1139.0 | 1101.6 | 1080.0 | 1078.0 | 1064.3 | 1064.3 | 1038.7 |
| 27.5° | 2244.6 | 1802.0 | 1363.3 | 1168.5 | 1083.9 | 1062.3 | 1052.5 | 1048.5 | 1042.6 | 1028.8 | 1011.1 |
| 30° | 2370.5 | 1807.9 | 1294.4 | 1099.7 | 1034.7 | 1011.1 | 1024.9 | 1034.7 | 1009.2 | 983.6 | 991.5 |
| 32.5° | 2474.7 | 1794.1 | 1211.8 | 1034.7 | 999.3 | 987.5 | 1015.1 | 1024.9 | 995.4 | 967.9 | 954.1 |
| 35° | 2600.6 | 1760.6 | 1131.1 | 983.6 | 963.9 | 987.5 | 1011.1 | 1011.1 | 952.1 | 918.7 | 910.8 |
| 37.5° | 2791.5 | 1723.3 | 1056.4 | 940.3 | 926.6 | 975.7 | 1007.2 | 985.6 | 893.1 | 851.8 | 842.0 |
| 40° | 2996.1 | 1699.7 | 983.6 | 897.0 | 906.9 | 956.1 | 973.8 | 906.9 | 812.5 | 786.9 | 779.0 |
| 42.5° | 3293.1 | 1652.5 | 918.7 | 859.7 | 889.2 | 928.5 | 928.5 | 808.5 | 773.1 | 759.3 | 757.4 |
| 45° | 3662.9 | 1619.0 | 861.6 | 828.2 | 863.6 | 873.4 | 842.0 | 757.4 | 731.8 | 727.9 | 729.8 |
| 47.5° | 3843.9 | 1554.1 | 802.6 | 790.8 | 816.4 | 818.4 | 735.7 | 716.1 | 694.4 | 688.5 | 684.6 |
| 50° | 3816.4 | 1438.0 | 725.9 | 741.6 | 777.0 | 757.4 | 670.8 | 674.8 | 655.1 | 653.1 | 643.3 |
| 52.5° | 3623.6 | 1255.1 | 649.2 | 686.6 | 725.9 | 668.8 | 617.7 | 613.8 | 613.8 | 588.2 | 578.4 |
| 55° | 3212.4 | 1011.1 | 556.7 | 603.9 | 651.1 | 562.6 | 548.8 | 544.9 | 535.1 | 511.5 | 505.6 |
| 57.5° | 2543.6 | 741.6 | 419.0 | 470.2 | 552.8 | 478.0 | 476.1 | 458.4 | 432.8 | 415.1 | 415.1 |
| 60° | 1512.8 | 426.9 | 263.6 | 287.2 | 365.9 | 387.5 | 430.8 | 422.9 | 379.7 | 352.1 | 344.3 |
| 62.5° | 690.5 | 220.3 | 167.2 | 171.1 | 196.7 | 251.8 | 338.4 | 391.5 | 330.5 | 283.3 | 279.3 |
| 65° | 232.1 | 163.3 | 137.7 | 131.8 | 135.7 | 151.5 | 202.6 | 277.4 | 263.6 | 218.4 | 210.5 |
| 67.5° | 141.6 | 145.6 | 129.8 | 120.0 | 120.0 | 118.0 | 116.1 | 125.9 | 155.4 | 151.5 | 153.4 |
| 70° | 122.0 | 133.8 | 120.0 | 108.2 | 104.3 | 98.4 | 82.6 | 68.9 | 59.0 | 68.9 | 72.8 |
| 72.5° | 98.4 | 106.2 | 102.3 | 92.5 | 82.6 | 74.8 | 59.0 | 45.2 | 33.4 | 29.5 | 29.5 |
| 75° | 72.8 | 78.7 | 82.6 | 70.8 | 63.0 | 53.1 | 43.3 | 29.5 | 17.7 | 11.8 | 11.8 |
| 77.5° | 53.1 | 59.0 | 61.0 | 55.1 | 47.2 | 37.4 | 27.5 | 19.7 | 9.8 | 3.9 | 3.9 |
| 80° | 45.2 | 53.1 | 59.0 | 55.1 | 49.2 | 35.4 | 25.6 | 13.8 | 7.9 | 2.0 | 2.0 |
| 82.5° | 43.3 | 53.1 | 59.0 | 53.1 | 47.2 | 33.4 | 25.6 | 15.7 | 5.9 | 2.0 | 2.0 |
| 85° | 9.8 | 13.8 | 17.7 | 21.6 | 25.6 | 25.6 | 19.7 | 11.8 | 5.9 | 2.0 | 2.0 |
| 87.5° | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 2.0 | 2.0 | 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)