

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: P527721

Luminaire Tested: **GALN-SA2D-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527721
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-SA2D-730-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA 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: 9370 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

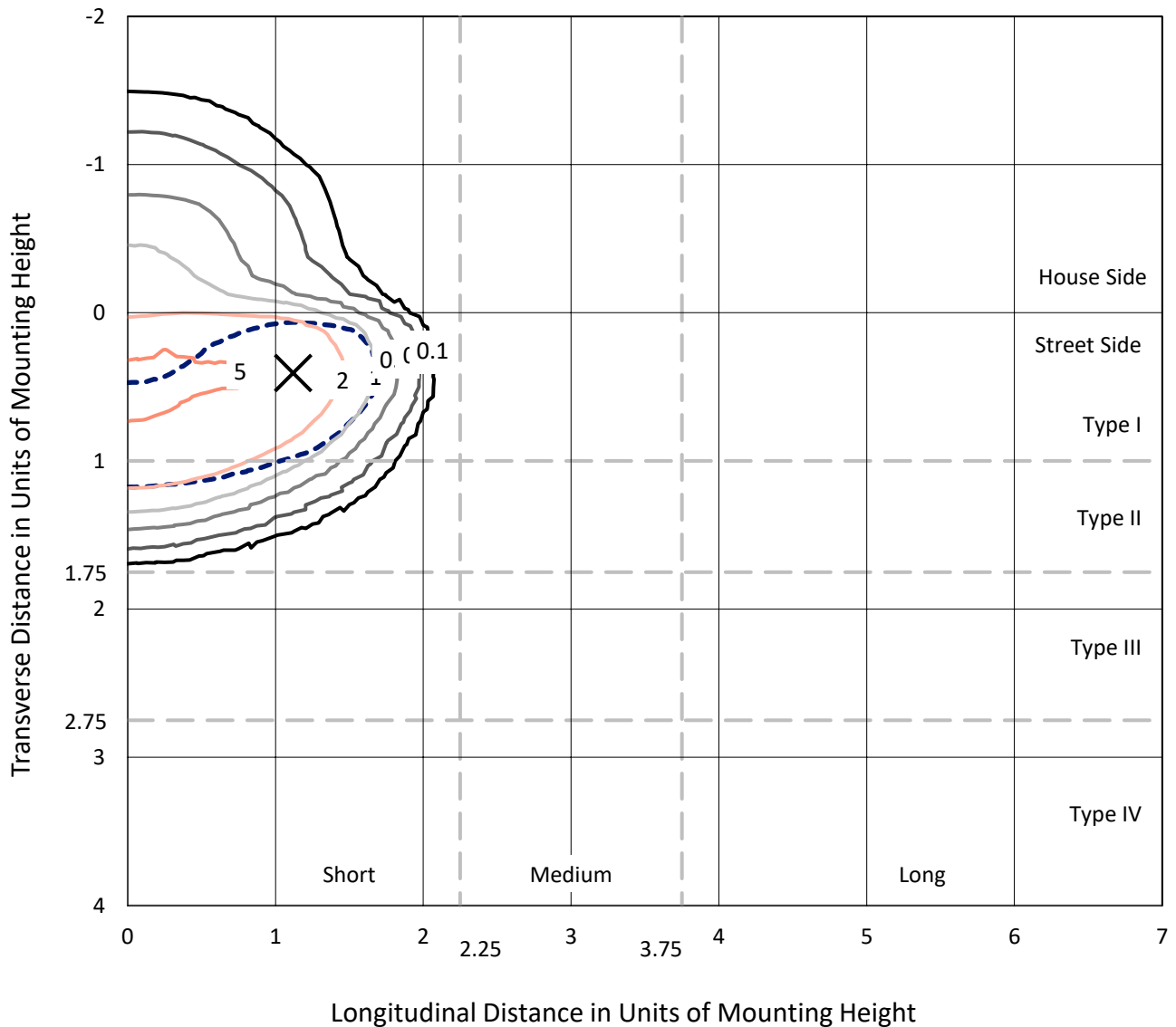
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

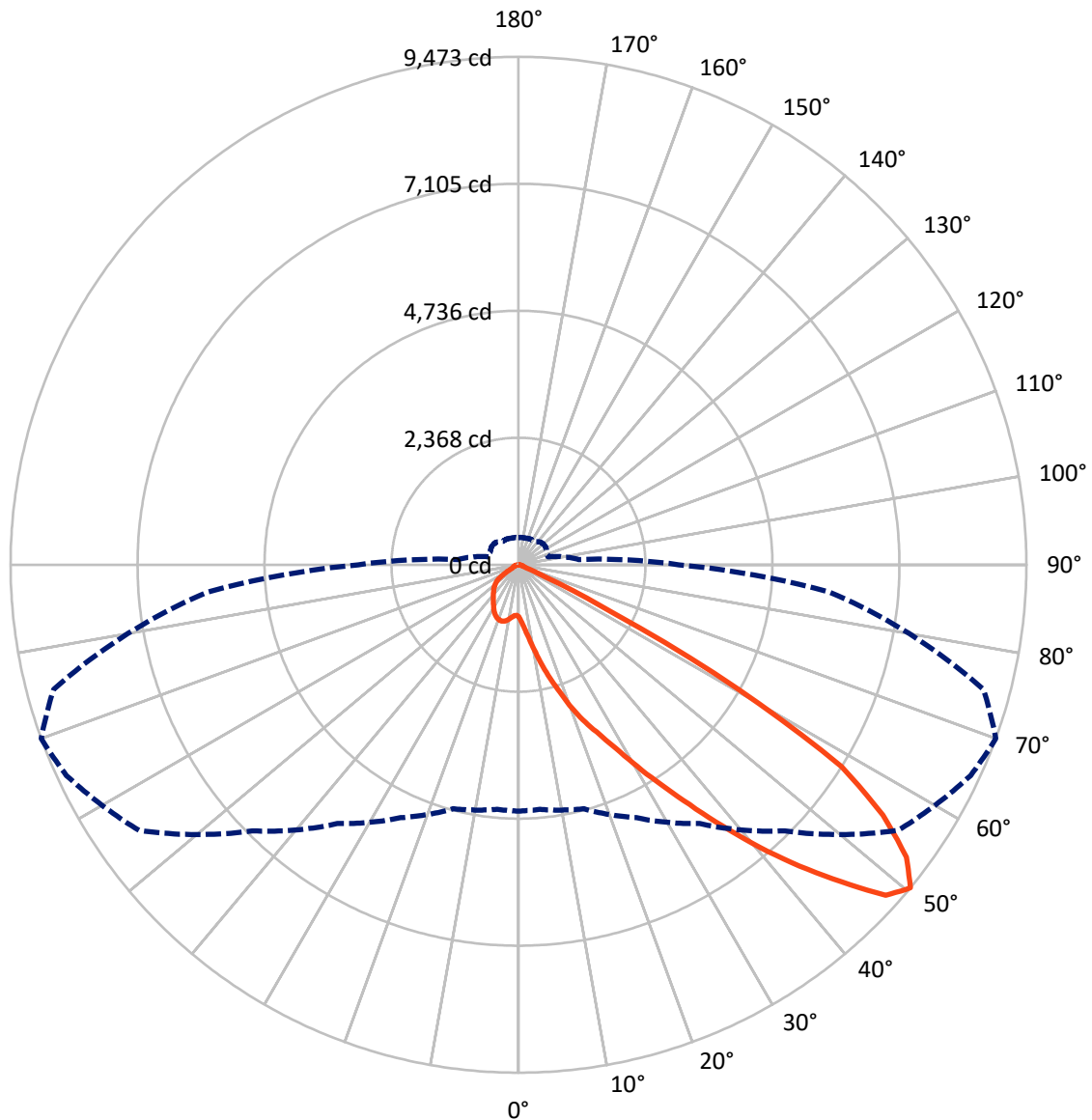
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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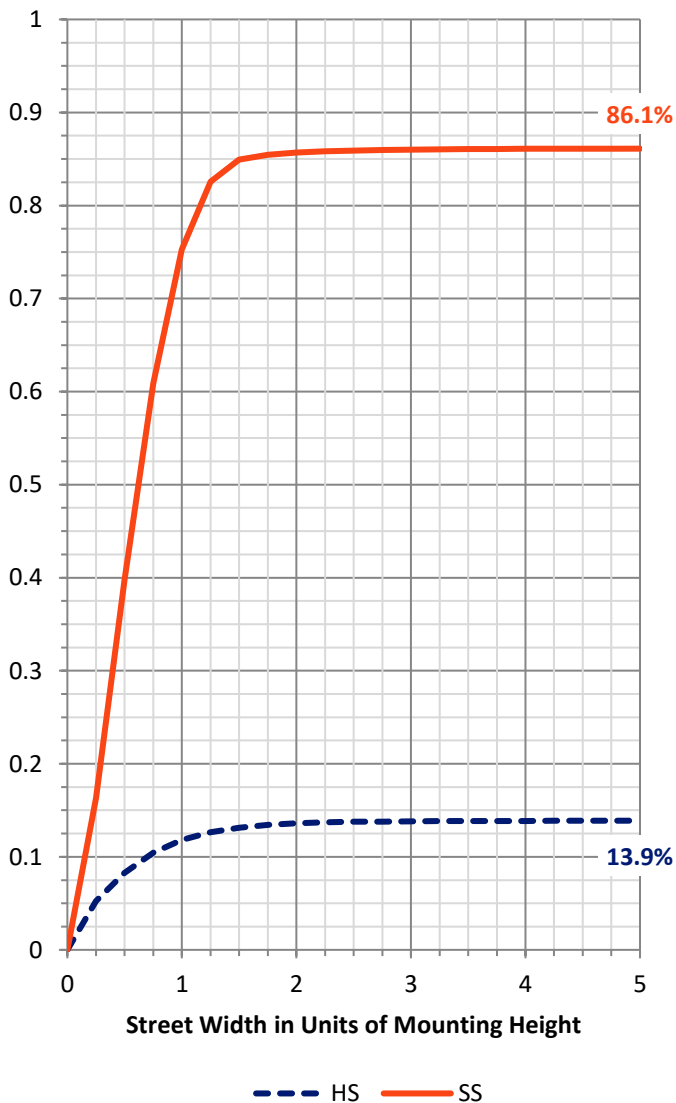
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1308.6 | 0.0 | 1308.6 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 8061.4 | 0.0 | 8061.4 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 9370.0 | 0.0 | 9370.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 126.2 | 1.3 |
| 10°-20° | 545.9 | 5.8 |
| 20°-30° | 1145.3 | 12.2 |
| 30°-40° | 1974.0 | 21.1 |
| 40°-50° | 2885.0 | 30.8 |
| 50°-60° | 2247.0 | 24.0 |
| 60°-70° | 380.7 | 4.1 |
| 70°-80° | 52.3 | 0.6 |
| 80°-90° | 13.5 | 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° | 9370.0 | 100.0 |
| 0°-180° | 9370.0 | 100.0 |

Coefficient of Utilization

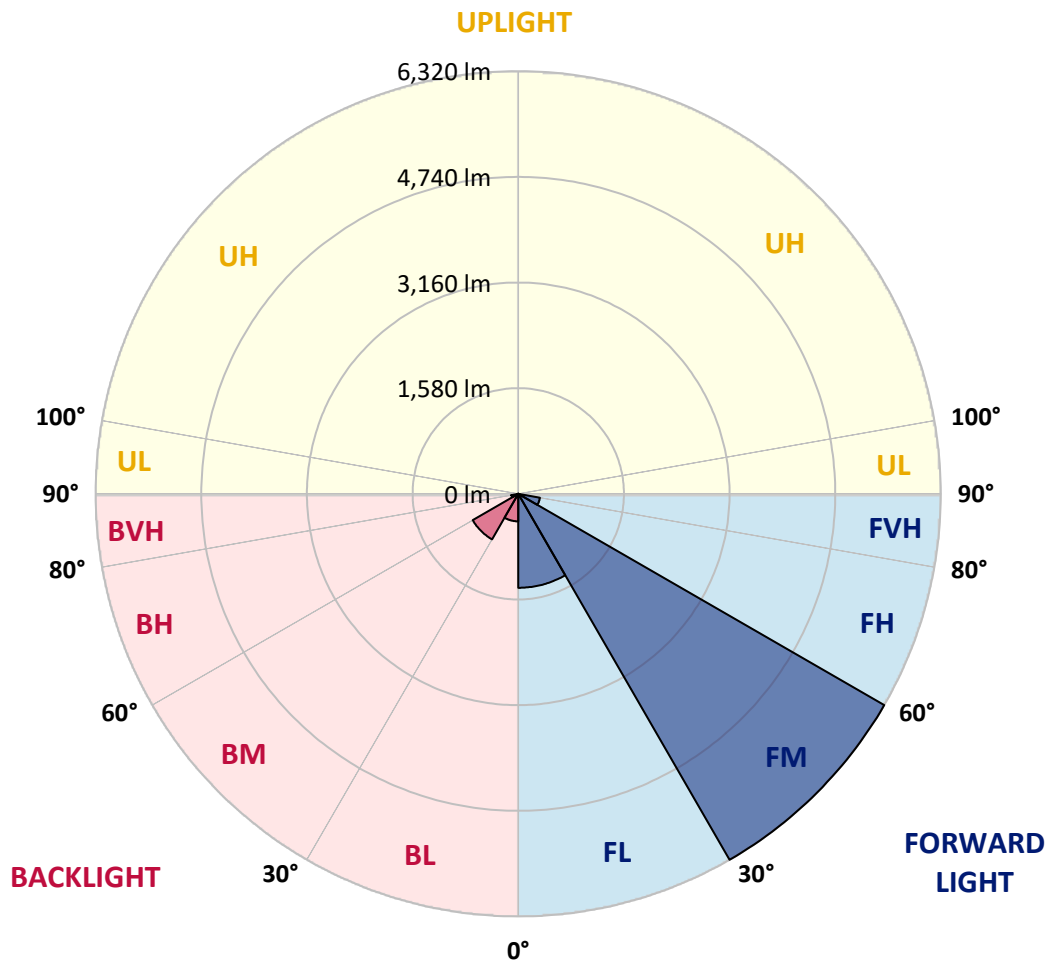


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1405.6 | 15.0 | | | |
| FM (30°-60°) | 6319.9 | 67.4 | | | |
| FH (60°-80°) | 329.6 | 3.5 | | | G0/660 |
| FVH (80°-90°) | 6.3 | 0.1 | | | G0/10 |
| BL (0°-30°) | 411.8 | 4.4 | B1/500 | | |
| BM (30°-60°) | 786.2 | 8.4 | B1/1000 | | |
| BH (60°-80°) | 103.4 | 1.1 | B0/110 | | G0/110 |
| BVH (80°-90°) | 7.3 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0
 Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 970.5 | 970.5 | 970.5 | 970.5 | 970.5 | 970.5 | 970.5 | 970.5 | 970.5 | 970.5 | 970.5 |
| 2.5° | 1271.0 | 1261.7 | 1241.7 | 1204.7 | 1189.3 | 1152.3 | 1130.8 | 1089.2 | 1063.0 | 1033.7 | 1001.4 |
| 5° | 1790.1 | 1742.4 | 1713.1 | 1671.5 | 1549.8 | 1474.3 | 1349.5 | 1243.2 | 1193.9 | 1140.0 | 1066.1 |
| 7.5° | 2326.2 | 2295.4 | 2255.4 | 2166.0 | 2082.8 | 1925.7 | 1711.6 | 1477.4 | 1377.3 | 1284.8 | 1138.5 |
| 10° | 2769.9 | 2683.6 | 2679.0 | 2612.8 | 2521.9 | 2333.9 | 2076.7 | 1785.5 | 1606.8 | 1471.2 | 1241.7 |
| 12.5° | 3079.6 | 3001.0 | 3036.4 | 3028.7 | 2944.0 | 2771.5 | 2474.1 | 2089.0 | 1902.6 | 1691.5 | 1348.0 |
| 15° | 3361.5 | 3329.1 | 3318.3 | 3309.1 | 3275.2 | 3147.3 | 2880.8 | 2458.7 | 2189.1 | 1934.9 | 1468.1 |
| 17.5° | 3637.2 | 3554.1 | 3594.1 | 3601.8 | 3598.7 | 3483.2 | 3233.6 | 2810.0 | 2492.6 | 2192.2 | 1594.5 |
| 20° | 3882.2 | 3889.9 | 3836.0 | 3825.2 | 3815.9 | 3811.3 | 3567.9 | 3158.1 | 2865.4 | 2461.8 | 1759.3 |
| 22.5° | 4196.5 | 4142.5 | 4190.3 | 4159.5 | 4099.4 | 4062.4 | 3876.0 | 3466.2 | 3188.9 | 2786.9 | 1927.2 |
| 25° | 4567.7 | 4610.9 | 4498.4 | 4486.1 | 4419.8 | 4292.0 | 4124.1 | 3811.3 | 3500.1 | 3088.8 | 2109.0 |
| 27.5° | 5025.3 | 4949.8 | 4920.5 | 4852.7 | 4732.6 | 4678.7 | 4481.5 | 4167.2 | 3876.0 | 3406.2 | 2284.6 |
| 30° | 5418.1 | 5398.1 | 5251.7 | 5171.6 | 5066.9 | 5065.3 | 4789.6 | 4649.4 | 4365.9 | 3903.8 | 2526.5 |
| 32.5° | 5738.6 | 5650.7 | 5596.8 | 5541.4 | 5456.6 | 5479.7 | 5247.1 | 5173.2 | 4888.2 | 4365.9 | 2811.5 |
| 35° | 5952.7 | 5889.5 | 5857.2 | 5772.4 | 5747.8 | 5851.0 | 5754.0 | 5723.1 | 5489.0 | 5016.0 | 3145.8 |
| 37.5° | 6020.5 | 6040.5 | 6034.3 | 5928.0 | 5980.4 | 6259.3 | 6384.0 | 6303.9 | 6180.7 | 5701.6 | 3507.8 |
| 40° | 6080.6 | 6094.4 | 6063.6 | 6188.4 | 6337.8 | 6655.2 | 7106.6 | 6974.1 | 6927.9 | 6396.4 | 4011.6 |
| 42.5° | 6114.4 | 6103.7 | 6103.7 | 6319.3 | 6545.8 | 7183.6 | 7804.4 | 7716.6 | 7681.2 | 7135.8 | 4593.9 |
| 45° | 5968.1 | 5863.3 | 5975.8 | 6268.5 | 6724.5 | 7443.9 | 8362.1 | 8483.8 | 8433.0 | 8015.5 | 5274.8 |
| 47.5° | 5421.2 | 5485.9 | 5549.1 | 5940.4 | 6507.3 | 7363.8 | 8704.1 | 9118.5 | 9212.5 | 8755.0 | 5721.6 |
| 50° | 4593.9 | 4580.1 | 4711.0 | 5204.0 | 5892.6 | 7018.8 | 8637.9 | 9301.9 | 9472.9 | 8976.8 | 5815.6 |
| 52.5° | 3341.5 | 3443.1 | 3584.9 | 4074.8 | 4891.3 | 6125.2 | 7782.9 | 8828.9 | 9056.9 | 8704.1 | 5754.0 |
| 55° | 1945.7 | 1833.3 | 2152.2 | 2566.6 | 3336.8 | 4620.1 | 6579.7 | 7826.0 | 8248.1 | 8208.1 | 5442.8 |
| 57.5° | 779.5 | 754.9 | 864.2 | 1164.7 | 1740.8 | 2863.9 | 4785.0 | 6430.3 | 7106.6 | 7517.9 | 4783.4 |
| 60° | 342.0 | 334.3 | 392.8 | 474.5 | 711.7 | 1320.3 | 2617.4 | 3999.3 | 4704.8 | 5253.3 | 3292.2 |
| 62.5° | 246.5 | 243.4 | 272.7 | 301.9 | 375.9 | 574.6 | 1100.0 | 1611.4 | 2008.9 | 2426.4 | 1474.3 |
| 65° | 198.7 | 206.4 | 226.5 | 241.9 | 277.3 | 318.9 | 388.2 | 448.3 | 550.0 | 570.0 | 325.1 |
| 67.5° | 161.8 | 167.9 | 186.4 | 203.4 | 209.5 | 172.5 | 178.7 | 157.1 | 157.1 | 140.2 | 112.5 |
| 70° | 118.6 | 120.2 | 141.7 | 161.8 | 129.4 | 69.3 | 121.7 | 121.7 | 109.4 | 104.8 | 95.5 |
| 72.5° | 87.8 | 89.4 | 106.3 | 100.1 | 50.8 | 43.1 | 89.4 | 98.6 | 89.4 | 84.7 | 77.0 |
| 75° | 64.7 | 66.2 | 55.5 | 23.1 | 21.6 | 27.7 | 52.4 | 67.8 | 64.7 | 63.2 | 58.5 |
| 77.5° | 12.3 | 9.2 | 7.7 | 10.8 | 15.4 | 23.1 | 33.9 | 41.6 | 43.1 | 46.2 | 43.1 |
| 80° | 1.5 | 1.5 | 4.6 | 9.2 | 16.9 | 24.6 | 35.4 | 40.1 | 41.6 | 43.1 | 40.1 |
| 82.5° | 0.0 | 1.5 | 4.6 | 9.2 | 16.9 | 23.1 | 30.8 | 35.4 | 38.5 | 40.1 | 38.5 |
| 85° | 0.0 | 1.5 | 3.1 | 7.7 | 13.9 | 16.9 | 15.4 | 10.8 | 9.2 | 10.8 | 7.7 |
| 87.5° | 0.0 | 0.0 | 1.5 | 1.5 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| 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° | 970.5 | 970.5 | 970.5 | 970.5 | 970.5 | 970.5 | 970.5 | 970.5 | 970.5 | 970.5 | 970.5 |
| 2.5° | 982.9 | 976.7 | 955.1 | 932.0 | 912.0 | 921.2 | 912.0 | 904.3 | 907.4 | 904.3 | 901.2 |
| 5° | 1036.8 | 1009.1 | 962.8 | 942.8 | 925.9 | 924.3 | 919.7 | 918.2 | 919.7 | 919.7 | 905.8 |
| 7.5° | 1087.6 | 1043.0 | 993.7 | 972.1 | 952.1 | 953.6 | 942.8 | 942.8 | 941.3 | 933.6 | 930.5 |
| 10° | 1164.7 | 1104.6 | 1041.4 | 1002.9 | 978.3 | 973.6 | 962.8 | 952.1 | 952.1 | 952.1 | 936.7 |
| 12.5° | 1249.4 | 1173.9 | 1087.6 | 1043.0 | 1013.7 | 990.6 | 973.6 | 970.5 | 953.6 | 950.5 | 942.8 |
| 15° | 1323.3 | 1227.8 | 1118.4 | 1056.8 | 1019.8 | 989.0 | 962.8 | 945.9 | 938.2 | 933.6 | 927.4 |
| 17.5° | 1395.7 | 1274.0 | 1135.4 | 1056.8 | 1016.8 | 981.3 | 953.6 | 938.2 | 919.7 | 922.8 | 910.5 |
| 20° | 1492.8 | 1323.3 | 1140.0 | 1036.8 | 987.5 | 953.6 | 916.6 | 908.9 | 898.1 | 888.9 | 892.0 |
| 22.5° | 1586.8 | 1358.8 | 1126.1 | 1012.1 | 941.3 | 901.2 | 882.7 | 873.5 | 868.9 | 861.2 | 850.4 |
| 25° | 1671.5 | 1397.3 | 1104.6 | 967.5 | 892.0 | 862.7 | 845.8 | 844.2 | 833.4 | 833.4 | 813.4 |
| 27.5° | 1757.8 | 1411.1 | 1067.6 | 915.1 | 848.8 | 831.9 | 824.2 | 821.1 | 816.5 | 805.7 | 791.8 |
| 30° | 1856.4 | 1415.8 | 1013.7 | 861.2 | 810.3 | 791.8 | 802.6 | 810.3 | 790.3 | 770.3 | 776.4 |
| 32.5° | 1938.0 | 1405.0 | 949.0 | 810.3 | 782.6 | 773.4 | 794.9 | 802.6 | 779.5 | 758.0 | 747.2 |
| 35° | 2036.6 | 1378.8 | 885.8 | 770.3 | 754.9 | 773.4 | 791.8 | 791.8 | 745.6 | 719.4 | 713.3 |
| 37.5° | 2186.0 | 1349.5 | 827.3 | 736.4 | 725.6 | 764.1 | 788.8 | 771.8 | 699.4 | 667.1 | 659.4 |
| 40° | 2346.3 | 1331.0 | 770.3 | 702.5 | 710.2 | 748.7 | 762.6 | 710.2 | 636.2 | 616.2 | 610.1 |
| 42.5° | 2578.9 | 1294.1 | 719.4 | 673.2 | 696.3 | 727.1 | 727.1 | 633.2 | 605.4 | 594.7 | 593.1 |
| 45° | 2868.5 | 1267.9 | 674.8 | 648.6 | 676.3 | 684.0 | 659.4 | 593.1 | 573.1 | 570.0 | 571.5 |
| 47.5° | 3010.2 | 1217.0 | 628.5 | 619.3 | 639.3 | 640.9 | 576.2 | 560.8 | 543.8 | 539.2 | 536.1 |
| 50° | 2988.7 | 1126.1 | 568.5 | 580.8 | 608.5 | 593.1 | 525.3 | 528.4 | 513.0 | 511.5 | 503.8 |
| 52.5° | 2837.7 | 982.9 | 508.4 | 537.7 | 568.5 | 523.8 | 483.7 | 480.7 | 480.7 | 460.6 | 452.9 |
| 55° | 2515.7 | 791.8 | 436.0 | 472.9 | 509.9 | 440.6 | 429.8 | 426.7 | 419.0 | 400.5 | 395.9 |
| 57.5° | 1991.9 | 580.8 | 328.1 | 368.2 | 432.9 | 374.4 | 372.8 | 358.9 | 338.9 | 325.1 | 325.1 |
| 60° | 1184.7 | 334.3 | 206.4 | 224.9 | 286.5 | 303.5 | 337.4 | 331.2 | 297.3 | 275.8 | 269.6 |
| 62.5° | 540.7 | 172.5 | 130.9 | 134.0 | 154.1 | 197.2 | 265.0 | 306.6 | 258.8 | 221.8 | 218.8 |
| 65° | 181.8 | 127.9 | 107.8 | 103.2 | 106.3 | 118.6 | 158.7 | 217.2 | 206.4 | 171.0 | 164.8 |
| 67.5° | 110.9 | 114.0 | 101.7 | 94.0 | 94.0 | 92.4 | 90.9 | 98.6 | 121.7 | 118.6 | 120.2 |
| 70° | 95.5 | 104.8 | 94.0 | 84.7 | 81.6 | 77.0 | 64.7 | 53.9 | 46.2 | 53.9 | 57.0 |
| 72.5° | 77.0 | 83.2 | 80.1 | 72.4 | 64.7 | 58.5 | 46.2 | 35.4 | 26.2 | 23.1 | 23.1 |
| 75° | 57.0 | 61.6 | 64.7 | 55.5 | 49.3 | 41.6 | 33.9 | 23.1 | 13.9 | 9.2 | 9.2 |
| 77.5° | 41.6 | 46.2 | 47.8 | 43.1 | 37.0 | 29.3 | 21.6 | 15.4 | 7.7 | 3.1 | 3.1 |
| 80° | 35.4 | 41.6 | 46.2 | 43.1 | 38.5 | 27.7 | 20.0 | 10.8 | 6.2 | 1.5 | 1.5 |
| 82.5° | 33.9 | 41.6 | 46.2 | 41.6 | 37.0 | 26.2 | 20.0 | 12.3 | 4.6 | 1.5 | 1.5 |
| 85° | 7.7 | 10.8 | 13.9 | 16.9 | 20.0 | 20.0 | 15.4 | 9.2 | 4.6 | 1.5 | 1.5 |
| 87.5° | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 1.5 | 1.5 | 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)