

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: STREETWORKS

Report Number: P529944

Luminaire Tested: **GLAN-SA5A-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5A-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15191 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

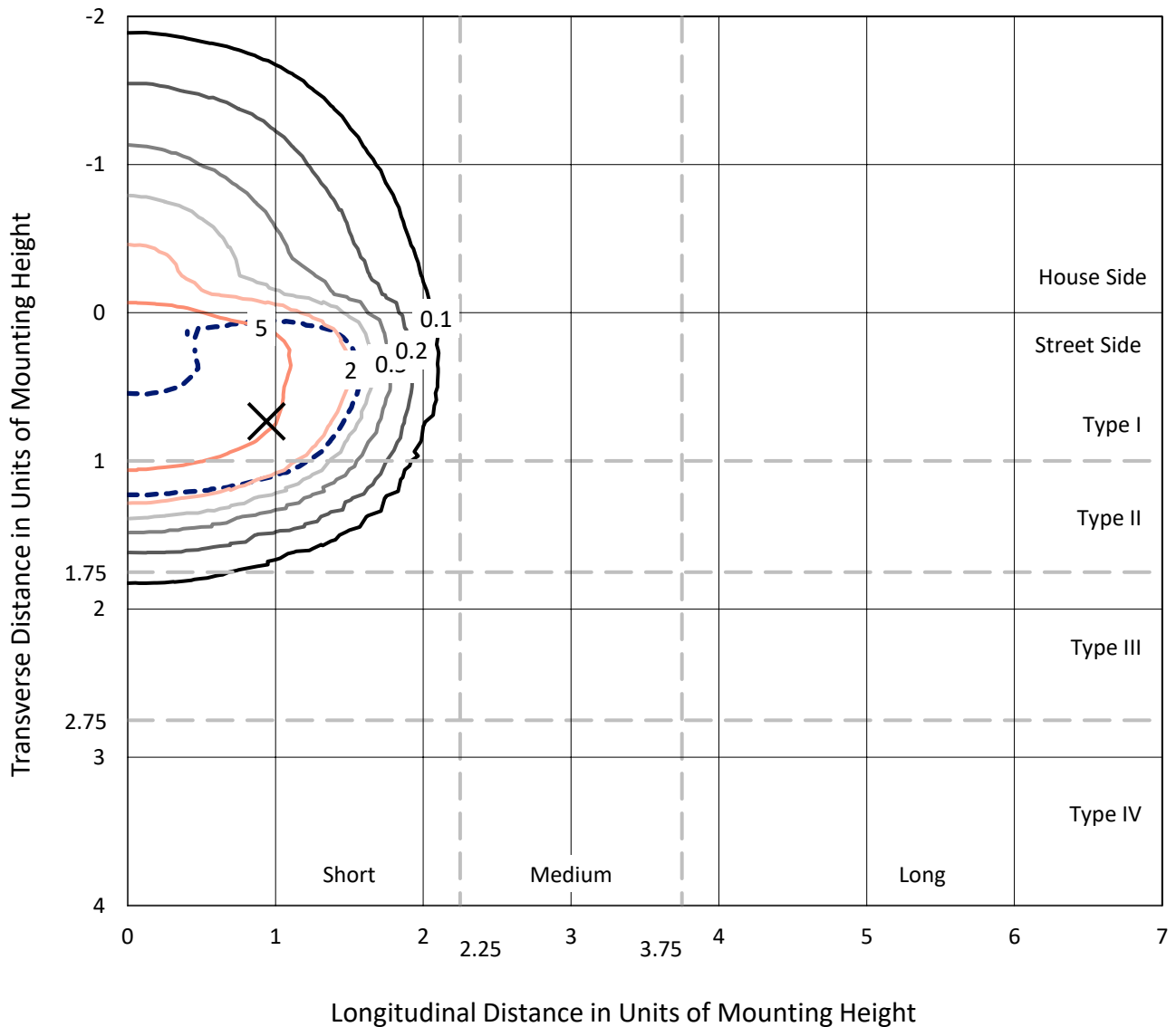
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

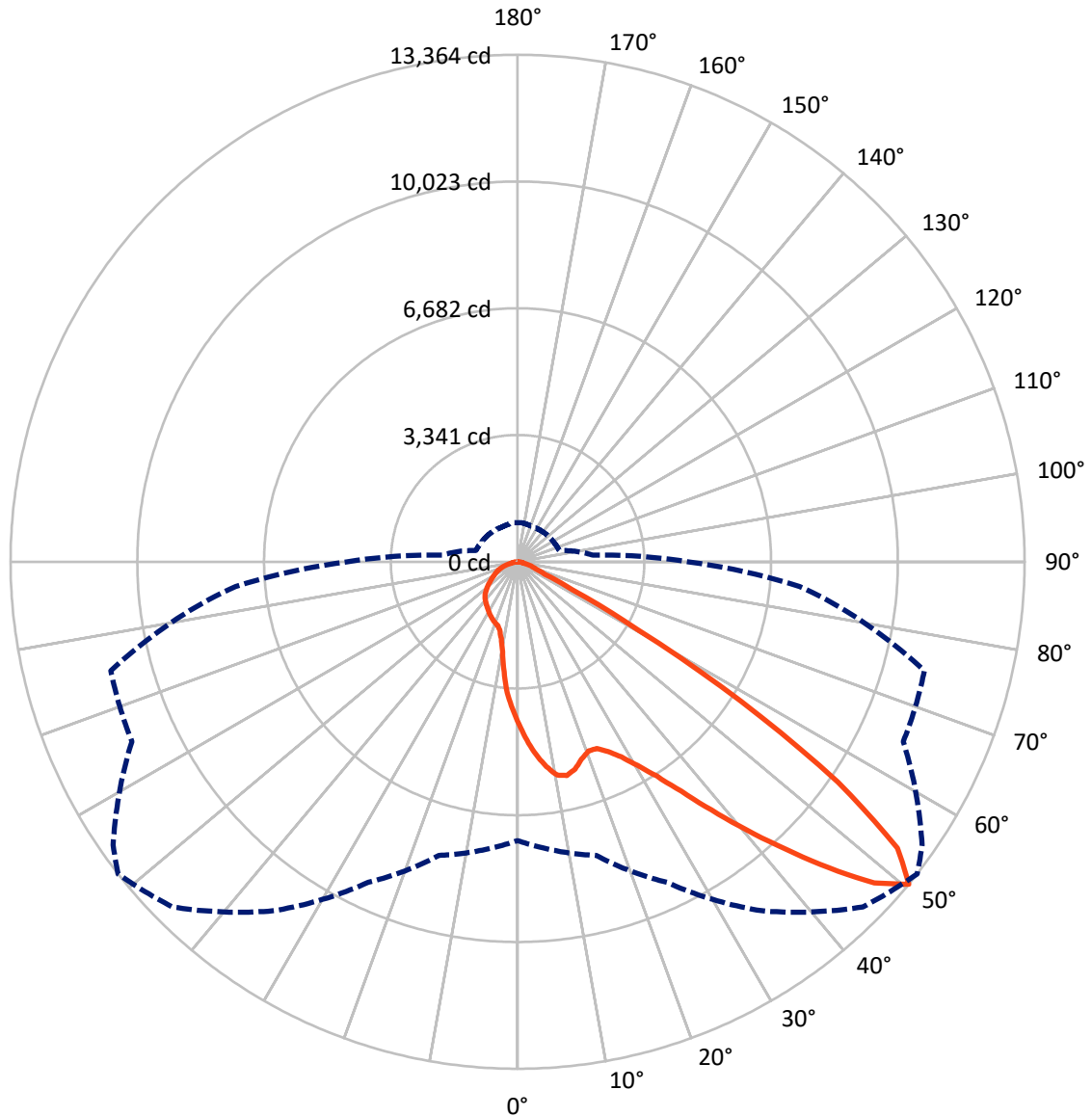
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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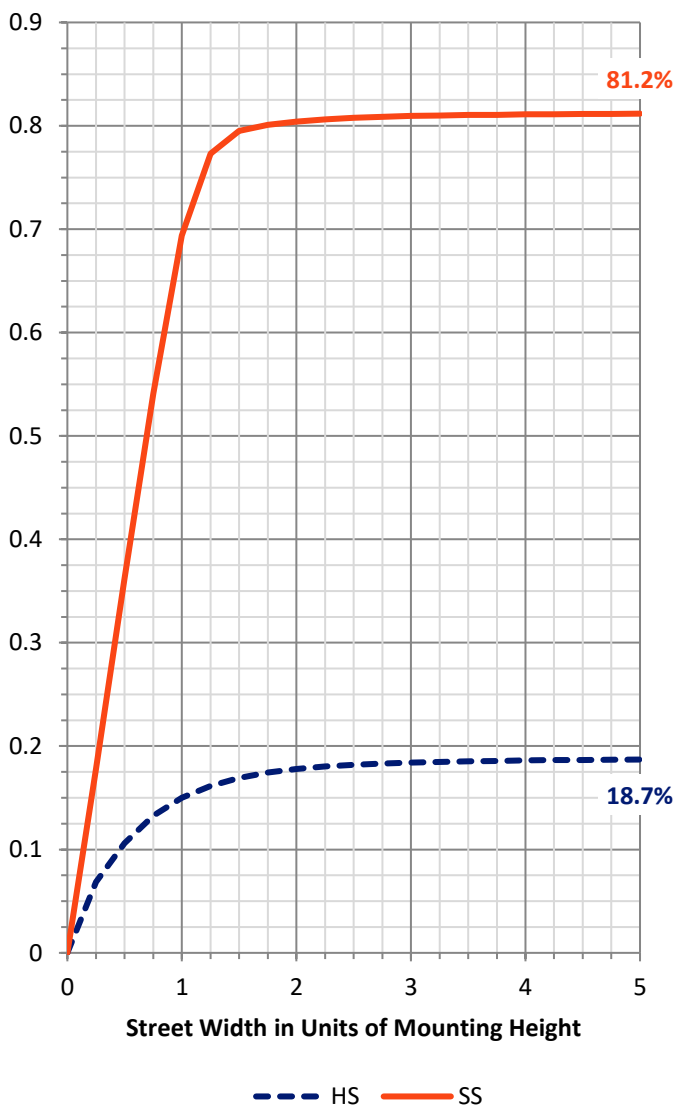
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2855.6 | 0.0 | 2855.6 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 12335.5 | 0.0 | 12335.5 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 15191.0 | 0.0 | 15191.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 394.7 | 2.6 |
| 10°-20° | 1057.8 | 7.0 |
| 20°-30° | 1781.9 | 11.7 |
| 30°-40° | 2990.2 | 19.7 |
| 40°-50° | 4574.2 | 30.1 |
| 50°-60° | 3335.0 | 22.0 |
| 60°-70° | 742.2 | 4.9 |
| 70°-80° | 267.7 | 1.8 |
| 80°-90° | 47.4 | 0.3 |
| 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° | 15191.0 | 100.0 |
| 0°-180° | 15191.0 | 100.0 |

Coefficient of Utilization

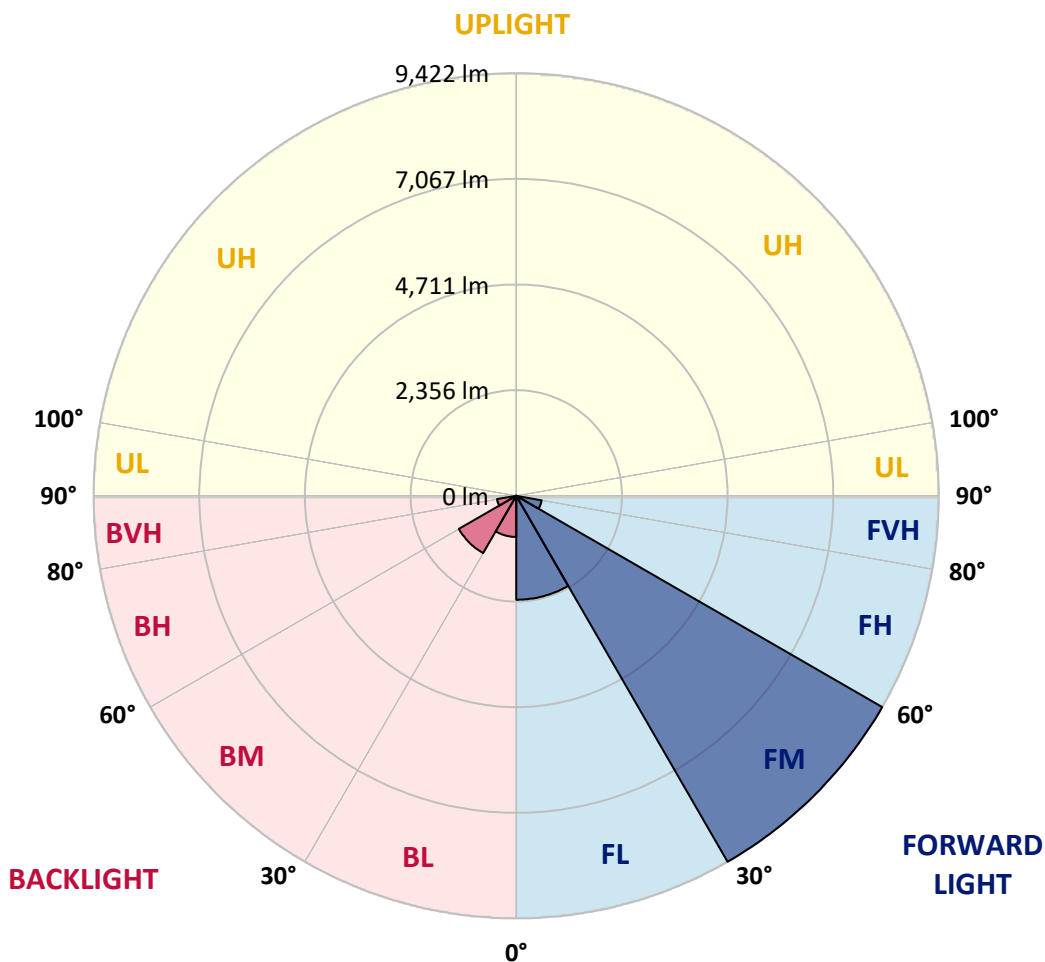


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2317.1 | 15.3 | | | |
| FM (30°-60°) | 9422.2 | 62.0 | | | |
| FH (60°-80°) | 574.8 | 3.8 | | | G0/660 |
| FVH (80°-90°) | 21.2 | 0.1 | | | G1/100 |
| BL (0°-30°) | 917.3 | 6.0 | B2/1000 | | |
| BM (30°-60°) | 1477.1 | 9.7 | B2/2500 | | |
| BH (60°-80°) | 435.1 | 2.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 26.2 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 4282.1 | 4282.1 | 4282.1 | 4282.1 | 4282.1 | 4282.1 | 4282.1 | 4282.1 | 4282.1 | 4282.1 | 4282.1 |
| 2.5° | 5041.8 | 4944.8 | 4955.8 | 4886.2 | 4811.2 | 4789.2 | 4712.3 | 4639.1 | 4584.2 | 4467.0 | 4359.0 |
| 5° | 5510.5 | 5481.2 | 5437.3 | 5382.4 | 5325.6 | 5186.5 | 5107.8 | 5016.2 | 4814.8 | 4633.6 | 4454.2 |
| 7.5° | 5578.3 | 5572.8 | 5596.6 | 5596.6 | 5616.7 | 5563.6 | 5451.9 | 5387.9 | 5173.7 | 4878.9 | 4545.7 |
| 10° | 5102.3 | 5118.7 | 5234.1 | 5384.2 | 5592.9 | 5737.5 | 5719.2 | 5702.7 | 5468.4 | 5065.6 | 4653.7 |
| 12.5° | 4723.3 | 4686.7 | 4754.4 | 4882.6 | 5195.6 | 5545.3 | 5781.5 | 5783.3 | 5722.9 | 5364.1 | 4732.5 |
| 15° | 4509.1 | 4534.7 | 4553.0 | 4613.5 | 4849.6 | 5254.2 | 5669.8 | 5792.4 | 6057.9 | 5574.6 | 4856.9 |
| 17.5° | 4646.4 | 4560.4 | 4556.7 | 4571.3 | 4692.2 | 4996.1 | 5462.9 | 5673.5 | 6241.0 | 5845.5 | 5010.7 |
| 20° | 4825.8 | 4824.0 | 4772.7 | 4754.4 | 4752.6 | 5023.5 | 5327.4 | 5613.0 | 6338.0 | 6197.0 | 5166.3 |
| 22.5° | 5140.7 | 5140.7 | 5056.5 | 5016.2 | 4930.2 | 5151.7 | 5345.7 | 5539.8 | 6499.1 | 6438.7 | 5241.4 |
| 25° | 5668.0 | 5581.9 | 5437.3 | 5338.4 | 5289.0 | 5367.7 | 5539.8 | 5713.7 | 6640.1 | 6695.0 | 5397.0 |
| 27.5° | 6154.9 | 6019.5 | 5948.1 | 5777.8 | 5711.9 | 5666.1 | 5823.6 | 5999.3 | 6804.8 | 7094.1 | 5481.2 |
| 30° | 6707.8 | 6684.0 | 6555.9 | 6336.2 | 6173.2 | 6089.0 | 6233.7 | 6407.6 | 7106.9 | 7502.4 | 5675.3 |
| 32.5° | 7696.4 | 7480.4 | 7306.5 | 7037.3 | 6771.9 | 6592.5 | 6735.3 | 6850.6 | 7608.5 | 7928.9 | 5887.6 |
| 35° | 8763.7 | 8694.2 | 8393.9 | 7908.8 | 7502.4 | 7341.3 | 7425.5 | 7511.5 | 8192.5 | 8580.7 | 6244.6 |
| 37.5° | 9812.7 | 9717.5 | 9470.4 | 9062.1 | 8567.8 | 8240.1 | 8300.6 | 8401.2 | 8847.9 | 9459.4 | 6680.4 |
| 40° | 10567.0 | 10449.8 | 10325.3 | 10264.9 | 9774.3 | 9325.8 | 9291.0 | 9316.6 | 9734.0 | 10283.2 | 7163.7 |
| 42.5° | 10621.9 | 10766.6 | 10805.0 | 11048.5 | 10933.2 | 10565.2 | 10351.0 | 10356.5 | 10579.8 | 11097.9 | 7652.5 |
| 45° | 10506.6 | 10372.9 | 10656.7 | 11321.3 | 11702.1 | 11874.2 | 11513.5 | 11467.7 | 11103.4 | 11570.3 | 7896.0 |
| 47.5° | 9296.5 | 9333.1 | 9812.7 | 10863.6 | 11963.9 | 12732.8 | 12648.6 | 12496.6 | 11383.5 | 11553.8 | 7857.5 |
| 50° | 7348.6 | 7570.1 | 8015.0 | 9323.9 | 11231.6 | 12868.2 | 13364.4 | 13012.9 | 11216.9 | 11099.8 | 7465.7 |
| 52.5° | 4893.6 | 4985.1 | 5278.0 | 6967.8 | 9031.0 | 11502.5 | 12540.5 | 12621.1 | 11063.1 | 10504.8 | 6969.6 |
| 55° | 2178.6 | 2171.3 | 2583.2 | 3639.5 | 5666.1 | 8752.7 | 10246.6 | 10737.3 | 10471.8 | 9898.8 | 6486.3 |
| 57.5° | 922.7 | 953.8 | 1122.2 | 1572.6 | 2786.4 | 5281.7 | 6942.2 | 7372.4 | 8053.4 | 8128.5 | 4975.9 |
| 60° | 624.3 | 627.9 | 673.7 | 787.2 | 1166.2 | 2480.6 | 3641.3 | 4157.6 | 4644.6 | 4611.6 | 2639.9 |
| 62.5° | 490.6 | 503.5 | 538.2 | 584.0 | 692.0 | 1125.9 | 1629.4 | 1916.8 | 1947.9 | 1638.5 | 1001.4 |
| 65° | 419.2 | 421.1 | 455.9 | 494.3 | 541.9 | 655.4 | 785.4 | 800.0 | 809.2 | 779.9 | 736.0 |
| 67.5° | 346.0 | 349.7 | 377.1 | 421.1 | 465.0 | 501.6 | 538.2 | 556.5 | 598.7 | 681.0 | 670.0 |
| 70° | 274.6 | 280.1 | 303.9 | 340.5 | 380.8 | 402.8 | 448.5 | 465.0 | 503.5 | 567.5 | 593.2 |
| 72.5° | 208.7 | 210.5 | 230.7 | 256.3 | 292.9 | 314.9 | 353.3 | 371.6 | 397.3 | 452.2 | 476.0 |
| 75° | 150.1 | 155.6 | 170.3 | 183.1 | 188.6 | 203.2 | 239.8 | 260.0 | 296.6 | 320.4 | 322.2 |
| 77.5° | 78.7 | 82.4 | 86.0 | 86.0 | 104.4 | 131.8 | 155.6 | 166.6 | 192.2 | 210.5 | 201.4 |
| 80° | 31.1 | 33.0 | 42.1 | 56.8 | 73.2 | 95.2 | 111.7 | 117.2 | 139.1 | 150.1 | 155.6 |
| 82.5° | 18.3 | 20.1 | 27.5 | 40.3 | 53.1 | 67.7 | 80.6 | 86.0 | 100.7 | 113.5 | 117.2 |
| 85° | 9.2 | 11.0 | 16.5 | 25.6 | 34.8 | 42.1 | 40.3 | 38.4 | 38.4 | 36.6 | 38.4 |
| 87.5° | 3.7 | 3.7 | 5.5 | 5.5 | 5.5 | 7.3 | 9.2 | 9.2 | 9.2 | 11.0 | 11.0 |
| 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° | 4282.1 | 4282.1 | 4282.1 | 4282.1 | 4282.1 | 4282.1 | 4282.1 | 4282.1 | 4282.1 | 4282.1 | 4282.1 |
| 2.5° | 4287.6 | 4214.4 | 4146.6 | 4022.1 | 3886.7 | 3848.2 | 3690.8 | 3634.0 | 3593.7 | 3546.1 | 3531.5 |
| 5° | 4309.6 | 4212.5 | 3994.7 | 3743.9 | 3544.3 | 3288.0 | 3119.6 | 2938.3 | 2806.5 | 2773.6 | 2764.4 |
| 7.5° | 4355.3 | 4188.7 | 3813.4 | 3434.5 | 3026.2 | 2678.4 | 2412.9 | 2270.1 | 2143.8 | 2136.5 | 2123.7 |
| 10° | 4406.6 | 4117.3 | 3615.7 | 3020.7 | 2499.0 | 2176.7 | 2017.5 | 1955.2 | 1924.1 | 1916.8 | 1913.1 |
| 12.5° | 4448.7 | 4102.7 | 3394.2 | 2618.0 | 2125.5 | 1931.4 | 1883.8 | 1878.3 | 1891.2 | 1894.8 | 1902.1 |
| 15° | 4467.0 | 4044.1 | 3126.9 | 2257.3 | 1893.0 | 1821.6 | 1841.7 | 1863.7 | 1872.8 | 1896.6 | 1878.3 |
| 17.5° | 4501.8 | 3969.0 | 2797.4 | 1971.7 | 1763.0 | 1775.8 | 1810.6 | 1836.2 | 1850.9 | 1867.4 | 1843.6 |
| 20° | 4520.1 | 3901.3 | 2488.0 | 1801.4 | 1717.2 | 1741.0 | 1788.6 | 1808.8 | 1827.1 | 1834.4 | 1806.9 |
| 22.5° | 4503.6 | 3762.2 | 2215.2 | 1664.1 | 1673.3 | 1704.4 | 1746.5 | 1768.5 | 1757.5 | 1728.2 | 1711.7 |
| 25° | 4459.7 | 3566.3 | 1931.4 | 1576.3 | 1611.0 | 1666.0 | 1698.9 | 1682.4 | 1662.3 | 1645.8 | 1640.3 |
| 27.5° | 4457.8 | 3326.4 | 1726.4 | 1495.7 | 1558.0 | 1633.0 | 1622.0 | 1607.4 | 1616.5 | 1603.7 | 1589.1 |
| 30° | 4467.0 | 3093.9 | 1558.0 | 1449.9 | 1519.5 | 1556.1 | 1568.9 | 1554.3 | 1565.3 | 1541.5 | 1548.8 |
| 32.5° | 4419.4 | 2866.9 | 1448.1 | 1396.9 | 1473.7 | 1471.9 | 1514.0 | 1525.0 | 1499.4 | 1449.9 | 1457.3 |
| 35° | 4439.5 | 2683.9 | 1354.7 | 1373.1 | 1422.5 | 1422.5 | 1455.4 | 1442.6 | 1374.9 | 1345.6 | 1352.9 |
| 37.5° | 4578.7 | 2504.4 | 1309.0 | 1340.1 | 1373.1 | 1387.7 | 1376.7 | 1321.8 | 1305.3 | 1305.3 | 1309.0 |
| 40° | 4710.5 | 2350.7 | 1281.5 | 1332.8 | 1327.3 | 1336.4 | 1255.9 | 1261.4 | 1261.4 | 1263.2 | 1254.1 |
| 42.5° | 4827.7 | 2246.3 | 1259.5 | 1288.8 | 1298.0 | 1250.4 | 1201.0 | 1195.5 | 1208.3 | 1206.5 | 1199.1 |
| 45° | 4869.8 | 2160.3 | 1228.4 | 1239.4 | 1246.7 | 1168.0 | 1144.2 | 1133.2 | 1147.9 | 1153.4 | 1160.7 |
| 47.5° | 4708.7 | 2088.9 | 1193.6 | 1171.7 | 1157.0 | 1105.8 | 1074.6 | 1054.5 | 1072.8 | 1103.9 | 1111.3 |
| 50° | 4501.8 | 1995.5 | 1138.7 | 1096.6 | 1065.5 | 1043.5 | 1021.6 | 1001.4 | 1014.2 | 1036.2 | 1030.7 |
| 52.5° | 4196.0 | 1849.0 | 1069.1 | 1025.2 | 972.1 | 977.6 | 957.5 | 946.5 | 953.8 | 953.8 | 948.3 |
| 55° | 3760.3 | 1519.5 | 952.0 | 920.9 | 876.9 | 891.6 | 895.2 | 880.6 | 865.9 | 878.8 | 867.8 |
| 57.5° | 2566.7 | 1072.8 | 849.5 | 849.5 | 805.5 | 825.7 | 823.8 | 789.0 | 754.3 | 757.9 | 750.6 |
| 60° | 1484.7 | 855.0 | 783.6 | 776.2 | 730.5 | 746.9 | 750.6 | 726.8 | 673.7 | 677.4 | 670.0 |
| 62.5° | 844.0 | 730.5 | 684.7 | 673.7 | 664.6 | 679.2 | 679.2 | 648.1 | 602.3 | 606.0 | 598.7 |
| 65° | 717.6 | 677.4 | 611.5 | 609.6 | 606.0 | 609.6 | 595.0 | 562.0 | 521.8 | 505.3 | 507.1 |
| 67.5° | 651.7 | 626.1 | 562.0 | 545.6 | 534.6 | 532.7 | 505.3 | 474.2 | 455.9 | 441.2 | 439.4 |
| 70° | 571.2 | 551.1 | 503.5 | 481.5 | 470.5 | 444.9 | 417.4 | 397.3 | 371.6 | 364.3 | 371.6 |
| 72.5° | 452.2 | 450.4 | 432.1 | 408.3 | 384.5 | 364.3 | 340.5 | 313.1 | 289.3 | 283.8 | 270.9 |
| 75° | 313.1 | 316.7 | 320.4 | 316.7 | 296.6 | 270.9 | 243.5 | 221.5 | 192.2 | 175.8 | 172.1 |
| 77.5° | 205.0 | 210.5 | 216.0 | 208.7 | 195.9 | 172.1 | 153.8 | 126.3 | 104.4 | 91.5 | 89.7 |
| 80° | 150.1 | 157.4 | 161.1 | 155.6 | 141.0 | 122.7 | 102.5 | 80.6 | 64.1 | 53.1 | 53.1 |
| 82.5° | 115.3 | 122.7 | 126.3 | 117.2 | 102.5 | 87.9 | 73.2 | 56.8 | 43.9 | 34.8 | 33.0 |
| 85° | 40.3 | 38.4 | 45.8 | 47.6 | 56.8 | 53.1 | 43.9 | 33.0 | 25.6 | 18.3 | 16.5 |
| 87.5° | 11.0 | 11.0 | 12.8 | 12.8 | 11.0 | 9.2 | 9.2 | 9.2 | 7.3 | 5.5 | 5.5 |
| 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)