

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: P530689

Luminaire Tested: **GLAN-SA5D-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530689
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: STREETWORKS
Catalog Number: GLAN-SA5D-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18722 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

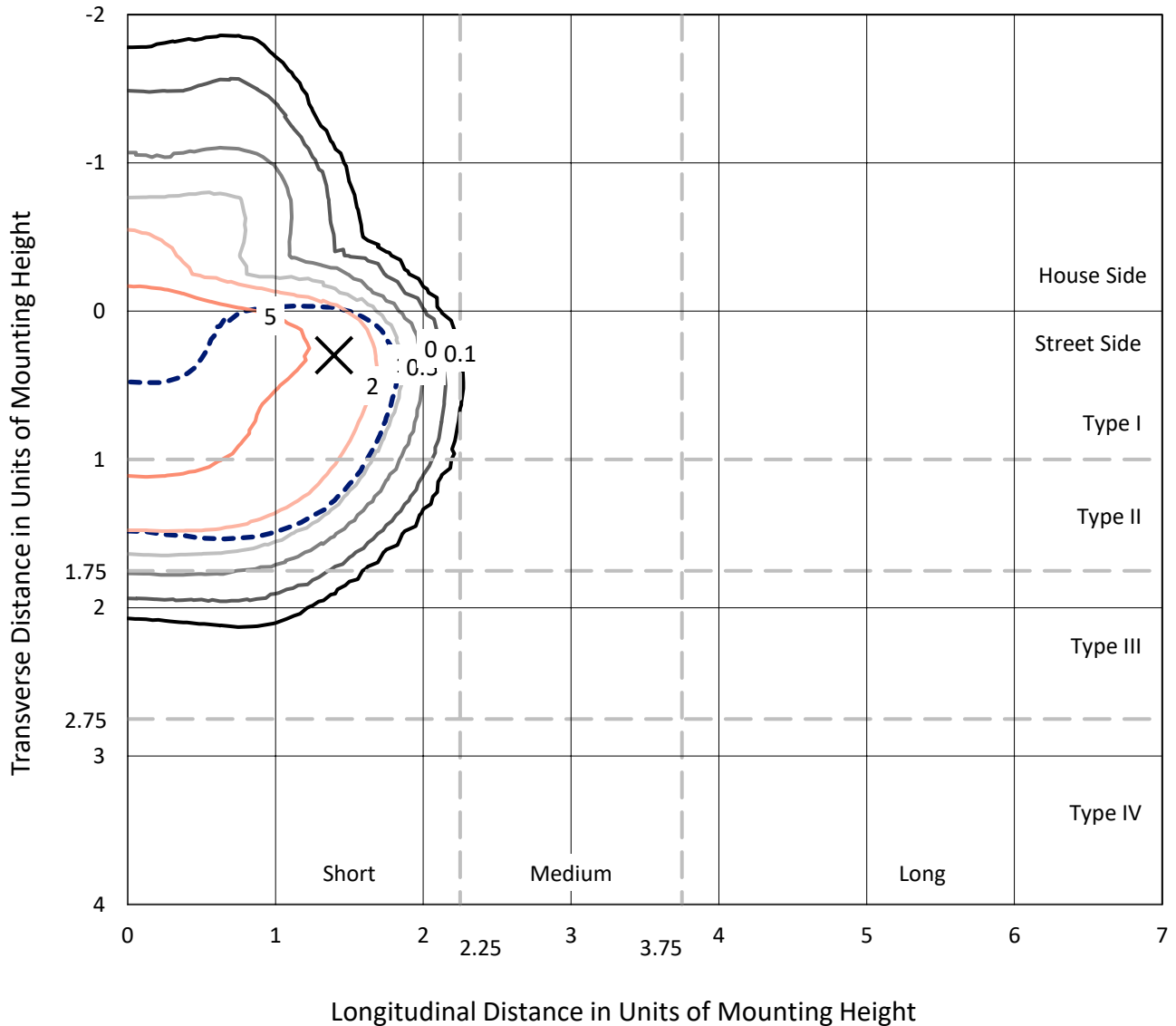
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

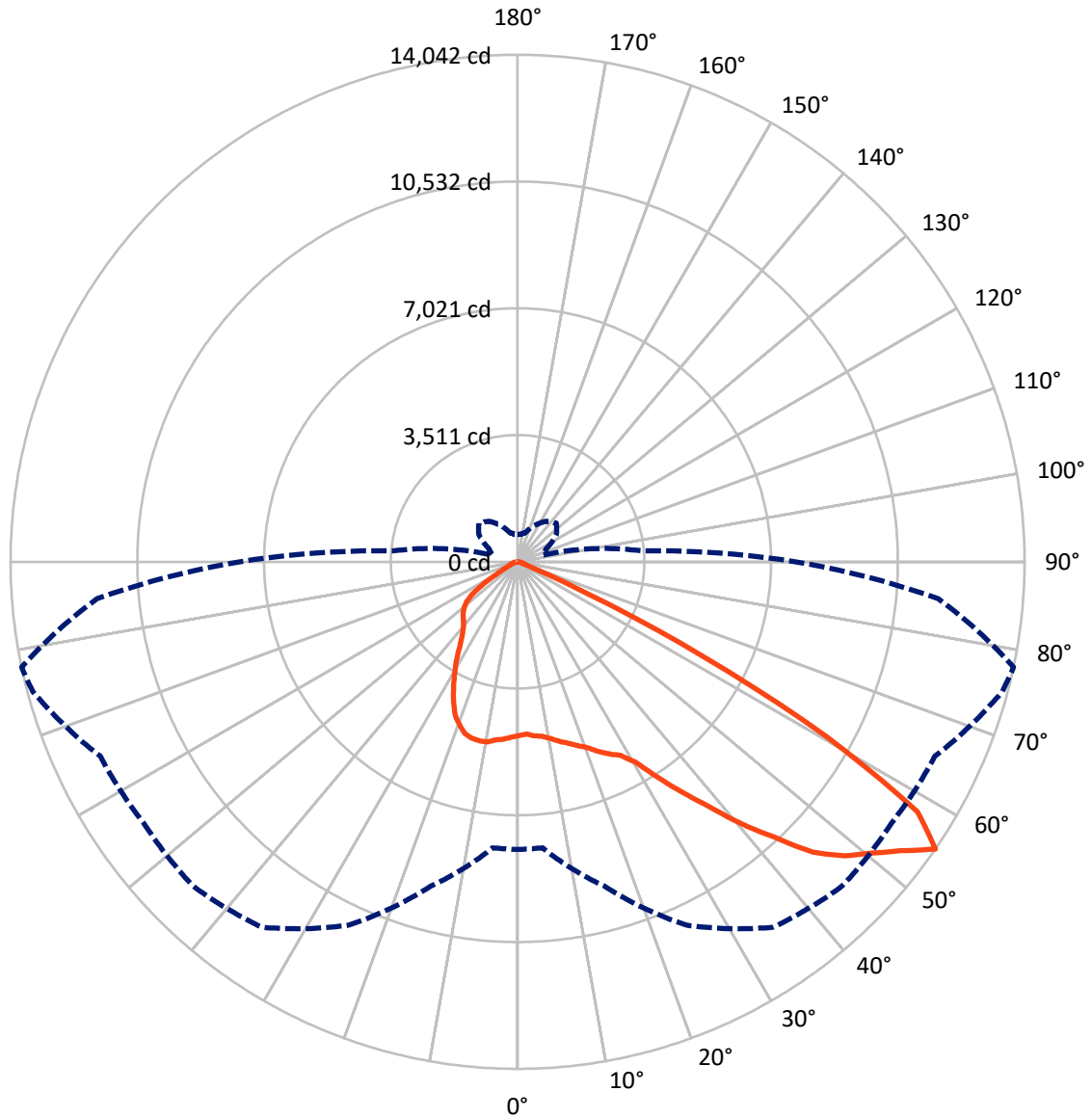
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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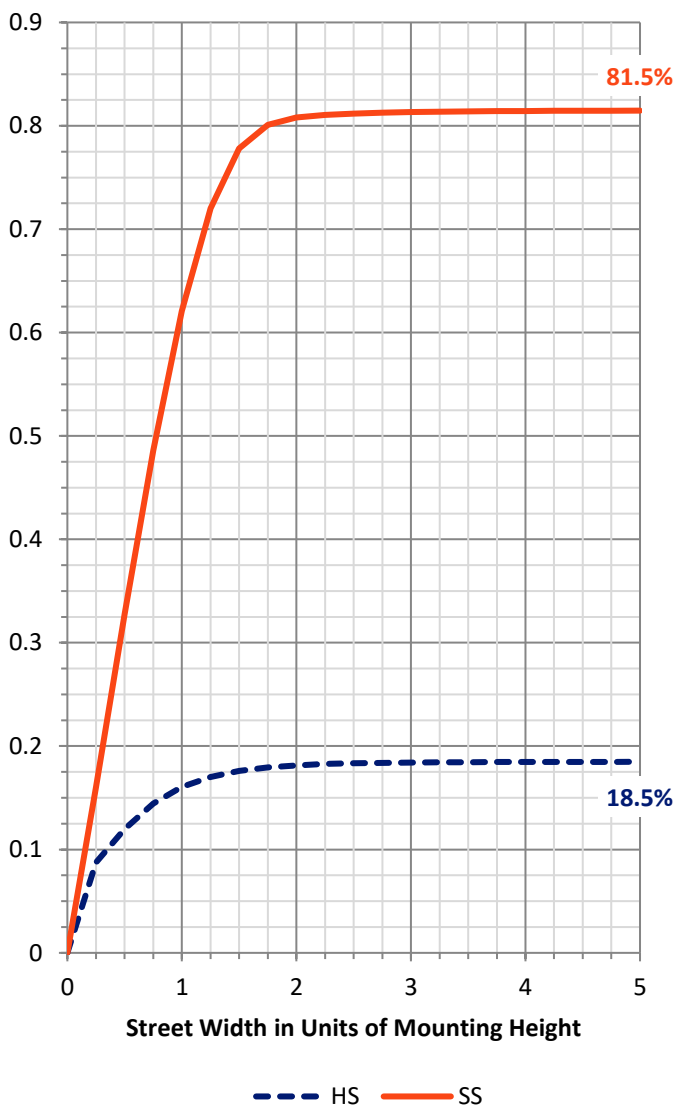
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3477.4 | 0.0 | 3477.4 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 15244.6 | 0.0 | 15244.6 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 18722.0 | 0.0 | 18722.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 429.2 | 2.3 |
| 10°-20° | 1135.9 | 6.1 |
| 20°-30° | 1991.0 | 10.6 |
| 30°-40° | 3283.0 | 17.5 |
| 40°-50° | 4777.1 | 25.5 |
| 50°-60° | 5413.0 | 28.9 |
| 60°-70° | 1547.7 | 8.3 |
| 70°-80° | 120.2 | 0.6 |
| 80°-90° | 25.0 | 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° | 18722.0 | 100.0 |
| 0°-180° | 18722.0 | 100.0 |

Coefficient of Utilization



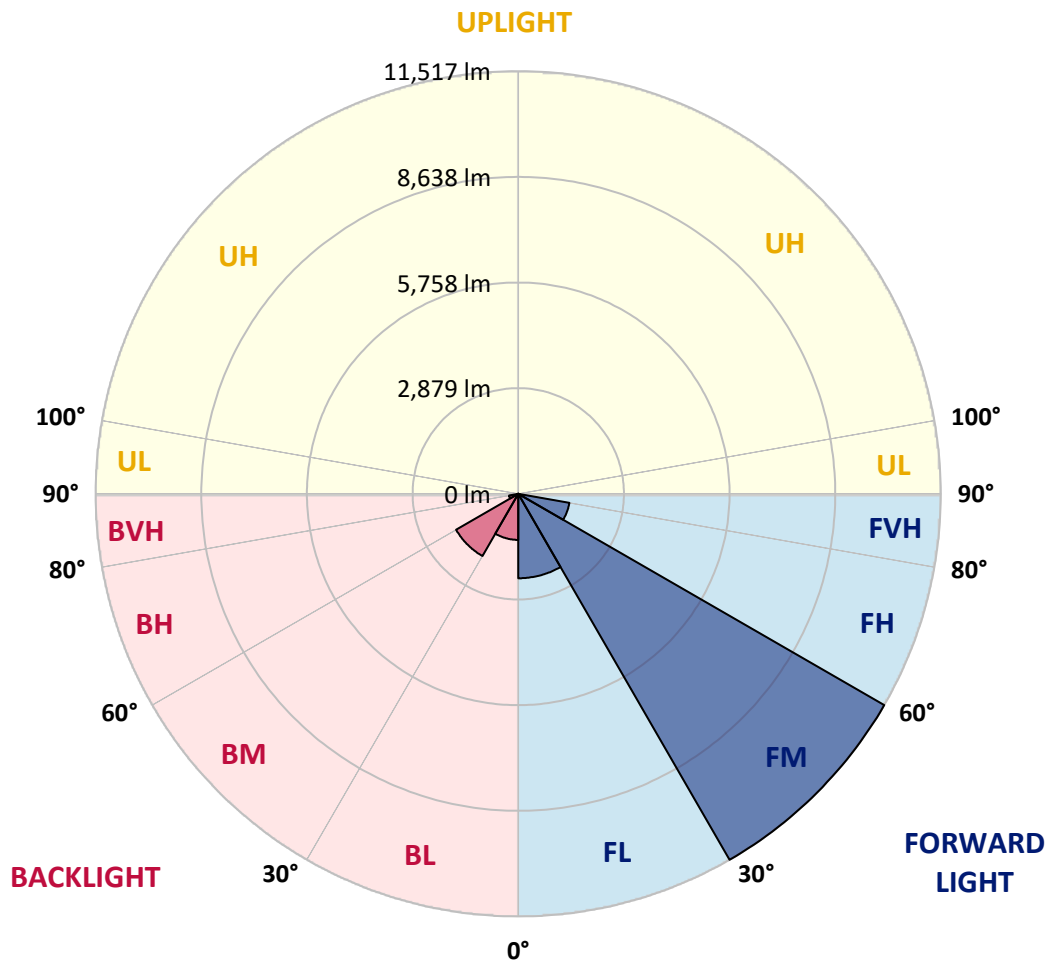
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2301.5 | 12.3 | | | |
| FM (30°-60°) | 11516.9 | 61.5 | | | |
| FH (60°-80°) | 1414.0 | 7.6 | | | G1/1800 |
| FVH (80°-90°) | 12.2 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1254.7 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 1956.1 | 10.4 | B2/2500 | | |
| BH (60°-80°) | 253.8 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 12.8 | 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° | 55° | 65° | 75° | 78° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4813.4 | 4813.4 | 4813.4 | 4813.4 | 4813.4 | 4813.4 | 4813.4 | 4813.4 | 4813.4 | 4813.4 | 4813.4 |
| 2.5° | 4525.6 | 4569.1 | 4575.8 | 4629.3 | 4626.0 | 4716.4 | 4743.1 | 4746.5 | 4806.7 | 4776.6 | 4853.6 |
| 5° | 4398.4 | 4374.9 | 4364.9 | 4458.6 | 4485.4 | 4565.7 | 4632.7 | 4672.9 | 4796.7 | 4840.2 | 4920.6 |
| 7.5° | 4284.6 | 4284.6 | 4291.3 | 4374.9 | 4364.9 | 4468.7 | 4539.0 | 4662.8 | 4843.6 | 4880.4 | 4977.5 |
| 10° | 4174.1 | 4133.9 | 4184.1 | 4271.2 | 4344.8 | 4391.7 | 4539.0 | 4656.1 | 4867.0 | 4974.1 | 5108.0 |
| 12.5° | 4117.2 | 4137.3 | 4144.0 | 4207.6 | 4287.9 | 4428.5 | 4508.8 | 4703.0 | 5034.4 | 5098.0 | 5241.9 |
| 15° | 4475.4 | 4435.2 | 4338.1 | 4281.2 | 4348.2 | 4415.1 | 4615.9 | 4813.4 | 5121.4 | 5211.8 | 5372.4 |
| 17.5° | 4890.4 | 4857.0 | 4776.6 | 4622.6 | 4472.0 | 4595.9 | 4753.2 | 4933.9 | 5215.1 | 5349.0 | 5586.7 |
| 20° | 5432.7 | 5379.1 | 5298.8 | 4997.5 | 4867.0 | 4733.1 | 4900.5 | 5114.7 | 5369.1 | 5489.6 | 5733.9 |
| 22.5° | 6078.7 | 6078.7 | 5898.0 | 5533.1 | 5262.0 | 5134.8 | 5205.1 | 5328.9 | 5539.8 | 5703.8 | 5944.8 |
| 25° | 6751.5 | 6731.4 | 6567.4 | 6189.2 | 5730.6 | 5580.0 | 5660.3 | 5747.3 | 5804.2 | 5894.6 | 6055.3 |
| 27.5° | 7521.4 | 7404.3 | 7196.7 | 6778.3 | 6373.3 | 6082.1 | 6169.1 | 6092.1 | 6021.8 | 6068.7 | 6299.6 |
| 30° | 8043.6 | 8117.2 | 7852.8 | 7451.1 | 7069.5 | 6744.8 | 6761.6 | 6694.6 | 6373.3 | 6440.2 | 6577.5 |
| 32.5° | 8585.9 | 8632.7 | 8485.4 | 8264.5 | 7882.9 | 7504.7 | 7367.4 | 7310.5 | 7069.5 | 7099.7 | 6965.8 |
| 35° | 9037.7 | 9128.1 | 8997.6 | 8900.5 | 8790.0 | 8485.4 | 8107.2 | 8291.3 | 7903.0 | 7829.4 | 7481.2 |
| 37.5° | 9452.8 | 9426.0 | 9580.0 | 9479.6 | 9456.2 | 9241.9 | 8826.9 | 8863.7 | 8602.6 | 8585.9 | 8184.2 |
| 40° | 9824.4 | 9831.1 | 10041.9 | 10088.8 | 9995.1 | 9613.5 | 9011.0 | 9302.2 | 9513.1 | 9533.1 | 9017.7 |
| 42.5° | 10132.3 | 10222.7 | 10403.5 | 10781.7 | 10641.1 | 10005.1 | 9201.8 | 9519.8 | 10303.0 | 10426.9 | 9807.6 |
| 45° | 10400.1 | 10584.2 | 10808.5 | 11146.6 | 11066.2 | 10560.8 | 9677.1 | 9968.3 | 11146.6 | 11471.2 | 10550.7 |
| 47.5° | 10416.8 | 10657.8 | 10902.2 | 11404.3 | 11504.7 | 10858.7 | 10169.1 | 10677.9 | 11816.0 | 12167.5 | 11093.0 |
| 50° | 10349.9 | 10477.1 | 10965.8 | 11511.4 | 11739.0 | 11344.0 | 10858.7 | 11273.8 | 12465.4 | 12686.3 | 11367.5 |
| 52.5° | 9556.6 | 9653.7 | 10634.4 | 11611.8 | 12160.8 | 11893.0 | 11772.5 | 12103.9 | 13128.2 | 13292.2 | 11625.2 |
| 55° | 7966.6 | 7949.9 | 9298.8 | 11106.4 | 12354.9 | 12706.4 | 12632.8 | 12749.9 | 13894.7 | 14042.0 | 11688.8 |
| 57.5° | 5449.4 | 5754.0 | 6918.9 | 9248.6 | 11166.6 | 12515.6 | 12592.6 | 12398.5 | 13001.0 | 13057.9 | 10189.2 |
| 60° | 2938.9 | 3066.1 | 4003.4 | 6172.4 | 8502.2 | 10199.3 | 10400.1 | 10048.6 | 10001.8 | 9841.1 | 7273.7 |
| 62.5° | 1168.2 | 1231.8 | 1764.0 | 3056.1 | 4632.7 | 6199.2 | 6631.0 | 6487.1 | 6179.1 | 5757.4 | 3765.7 |
| 65° | 555.7 | 595.8 | 877.0 | 1429.3 | 2055.3 | 2584.1 | 3015.9 | 3149.8 | 2323.0 | 2092.1 | 1241.9 |
| 67.5° | 378.2 | 408.4 | 639.3 | 816.7 | 733.1 | 766.5 | 997.5 | 927.2 | 545.6 | 465.3 | 344.8 |
| 70° | 287.9 | 308.0 | 512.1 | 555.7 | 328.0 | 231.0 | 257.7 | 241.0 | 224.3 | 227.6 | 224.3 |
| 72.5° | 204.2 | 220.9 | 374.9 | 328.0 | 143.9 | 107.1 | 137.2 | 164.0 | 164.0 | 164.0 | 160.7 |
| 75° | 123.9 | 140.6 | 217.6 | 127.2 | 56.9 | 56.9 | 87.0 | 110.5 | 117.2 | 120.5 | 113.8 |
| 77.5° | 63.6 | 80.3 | 73.6 | 36.8 | 36.8 | 43.5 | 63.6 | 77.0 | 83.7 | 83.7 | 80.3 |
| 80° | 13.4 | 13.4 | 13.4 | 20.1 | 36.8 | 46.9 | 63.6 | 70.3 | 80.3 | 80.3 | 73.6 |
| 82.5° | 0.0 | 3.3 | 10.0 | 20.1 | 33.5 | 43.5 | 60.3 | 70.3 | 80.3 | 83.7 | 77.0 |
| 85° | 0.0 | 3.3 | 6.7 | 13.4 | 23.4 | 26.8 | 23.4 | 20.1 | 20.1 | 20.1 | 20.1 |
| 87.5° | 0.0 | 0.0 | 3.3 | 3.3 | 3.3 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| 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° | 4813.4 | 4813.4 | 4813.4 | 4813.4 | 4813.4 | 4813.4 | 4813.4 | 4813.4 | 4813.4 | 4813.4 | 4813.4 |
| 2.5° | 4860.3 | 4870.3 | 4853.6 | 4850.3 | 4836.9 | 4877.0 | 4780.0 | 4756.5 | 4816.8 | 4759.9 | 4773.3 |
| 5° | 4923.9 | 4947.3 | 4917.2 | 4867.0 | 4793.4 | 4679.5 | 4582.5 | 4455.3 | 4395.0 | 4351.5 | 4344.8 |
| 7.5° | 4970.8 | 4987.5 | 4957.4 | 4796.7 | 4575.8 | 4287.9 | 4073.7 | 3916.4 | 3792.5 | 3755.7 | 3695.4 |
| 10° | 5161.6 | 5164.9 | 5014.3 | 4659.5 | 4227.7 | 3849.4 | 3521.4 | 3280.4 | 3156.5 | 3079.5 | 3046.1 |
| 12.5° | 5288.8 | 5282.1 | 4977.5 | 4388.3 | 3812.6 | 3310.5 | 2935.6 | 2644.4 | 2530.6 | 2493.7 | 2470.3 |
| 15° | 5449.4 | 5412.6 | 4890.4 | 4110.5 | 3277.0 | 2734.8 | 2396.7 | 2195.8 | 2185.8 | 2162.4 | 2185.8 |
| 17.5° | 5576.6 | 5472.9 | 4763.2 | 3605.1 | 2764.9 | 2252.7 | 2031.8 | 2045.2 | 2072.0 | 2095.4 | 2098.8 |
| 20° | 5784.2 | 5569.9 | 4472.0 | 3163.2 | 2289.6 | 1931.4 | 1928.1 | 1988.3 | 2055.3 | 2082.0 | 2108.8 |
| 22.5° | 5941.5 | 5610.1 | 4160.7 | 2691.2 | 1901.3 | 1800.9 | 1857.8 | 1948.1 | 1998.3 | 2025.1 | 2065.3 |
| 25° | 5998.4 | 5499.6 | 3745.6 | 2219.3 | 1713.8 | 1740.6 | 1827.6 | 1887.9 | 1951.5 | 1981.6 | 1964.9 |
| 27.5° | 6055.3 | 5442.7 | 3250.2 | 1827.6 | 1613.4 | 1700.4 | 1774.1 | 1834.3 | 1854.4 | 1894.6 | 1921.4 |
| 30° | 6192.5 | 5245.2 | 2805.0 | 1579.9 | 1563.2 | 1673.7 | 1727.2 | 1747.3 | 1800.9 | 1824.3 | 1824.3 |
| 32.5° | 6303.0 | 5168.3 | 2333.1 | 1462.8 | 1556.5 | 1687.0 | 1693.7 | 1693.7 | 1700.4 | 1683.7 | 1677.0 |
| 35° | 6530.6 | 4903.8 | 1911.3 | 1392.5 | 1553.2 | 1690.4 | 1707.1 | 1650.2 | 1496.2 | 1436.0 | 1419.3 |
| 37.5° | 6811.8 | 4733.1 | 1600.0 | 1375.7 | 1576.6 | 1730.6 | 1757.3 | 1543.1 | 1342.3 | 1245.2 | 1228.5 |
| 40° | 7153.2 | 4612.6 | 1395.8 | 1369.1 | 1630.1 | 1824.3 | 1744.0 | 1459.4 | 1198.3 | 1057.8 | 1051.1 |
| 42.5° | 7551.5 | 4502.1 | 1258.6 | 1365.7 | 1697.1 | 1921.4 | 1730.6 | 1389.1 | 1051.1 | 957.3 | 970.7 |
| 45° | 7869.5 | 4441.9 | 1164.9 | 1342.3 | 1720.5 | 1978.3 | 1740.6 | 1265.3 | 990.8 | 930.6 | 937.2 |
| 47.5° | 8117.2 | 4314.7 | 1087.9 | 1302.1 | 1717.2 | 1998.3 | 1650.2 | 1215.1 | 960.7 | 977.4 | 994.2 |
| 50° | 8123.9 | 4144.0 | 990.8 | 1215.1 | 1667.0 | 1961.5 | 1546.5 | 1168.2 | 954.0 | 1024.3 | 1057.8 |
| 52.5° | 8033.6 | 3903.0 | 887.0 | 1091.2 | 1549.8 | 1834.3 | 1452.7 | 1148.1 | 923.9 | 917.2 | 957.3 |
| 55° | 7712.2 | 3451.1 | 713.0 | 883.7 | 1308.8 | 1513.0 | 1369.1 | 1111.3 | 833.5 | 756.5 | 763.2 |
| 57.5° | 6232.7 | 2473.7 | 525.5 | 632.6 | 927.2 | 1108.0 | 1235.2 | 1094.6 | 749.8 | 642.7 | 646.0 |
| 60° | 3859.5 | 1402.5 | 384.9 | 431.8 | 572.4 | 672.8 | 1000.8 | 1017.6 | 669.5 | 542.3 | 535.6 |
| 62.5° | 1981.6 | 692.9 | 297.9 | 304.6 | 351.5 | 395.0 | 686.2 | 853.6 | 605.9 | 515.5 | 515.5 |
| 65° | 662.8 | 341.4 | 261.1 | 234.3 | 234.3 | 244.4 | 415.1 | 592.5 | 512.1 | 431.8 | 431.8 |
| 67.5° | 284.5 | 254.4 | 227.6 | 204.2 | 187.4 | 177.4 | 234.3 | 344.8 | 381.6 | 328.0 | 314.6 |
| 70° | 220.9 | 214.2 | 197.5 | 170.7 | 147.3 | 133.9 | 137.2 | 177.4 | 217.6 | 210.9 | 204.2 |
| 72.5° | 164.0 | 164.0 | 157.3 | 133.9 | 113.8 | 97.1 | 90.4 | 93.7 | 103.8 | 107.1 | 110.5 |
| 75° | 113.8 | 117.2 | 117.2 | 103.8 | 83.7 | 70.3 | 60.3 | 50.2 | 40.2 | 33.5 | 30.1 |
| 77.5° | 77.0 | 80.3 | 87.0 | 77.0 | 63.6 | 46.9 | 36.8 | 26.8 | 16.7 | 6.7 | 6.7 |
| 80° | 66.9 | 77.0 | 83.7 | 77.0 | 66.9 | 50.2 | 36.8 | 20.1 | 10.0 | 0.0 | 0.0 |
| 82.5° | 70.3 | 77.0 | 87.0 | 73.6 | 63.6 | 46.9 | 36.8 | 23.4 | 10.0 | 3.3 | 0.0 |
| 85° | 16.7 | 16.7 | 20.1 | 23.4 | 30.1 | 33.5 | 26.8 | 16.7 | 10.0 | 3.3 | 0.0 |
| 87.5° | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 3.3 | 3.3 | 3.3 | 3.3 | 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)