

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: P649993

Luminaire Tested: **GLAN-SA6A-835-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6A-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15589.5 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

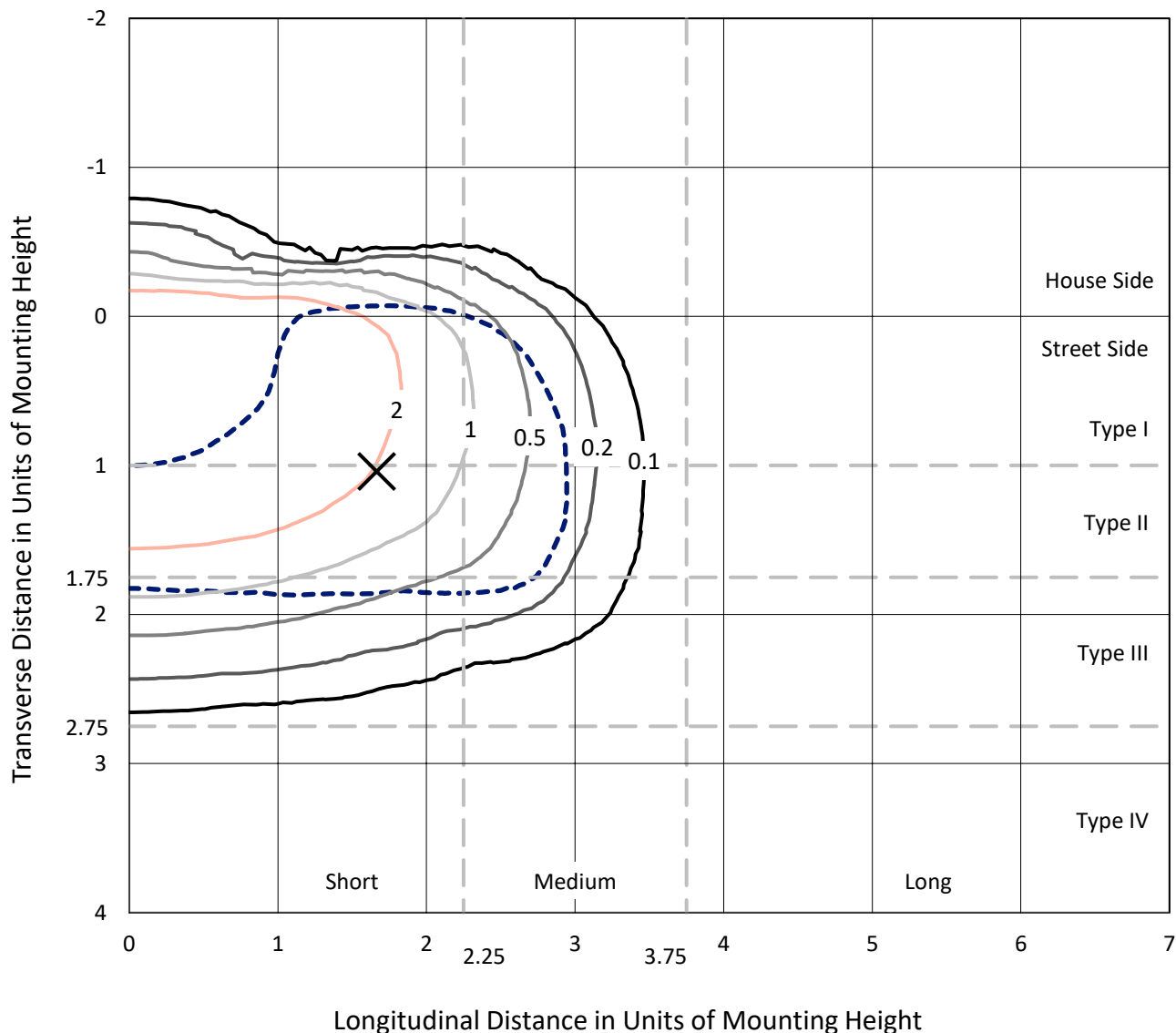
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

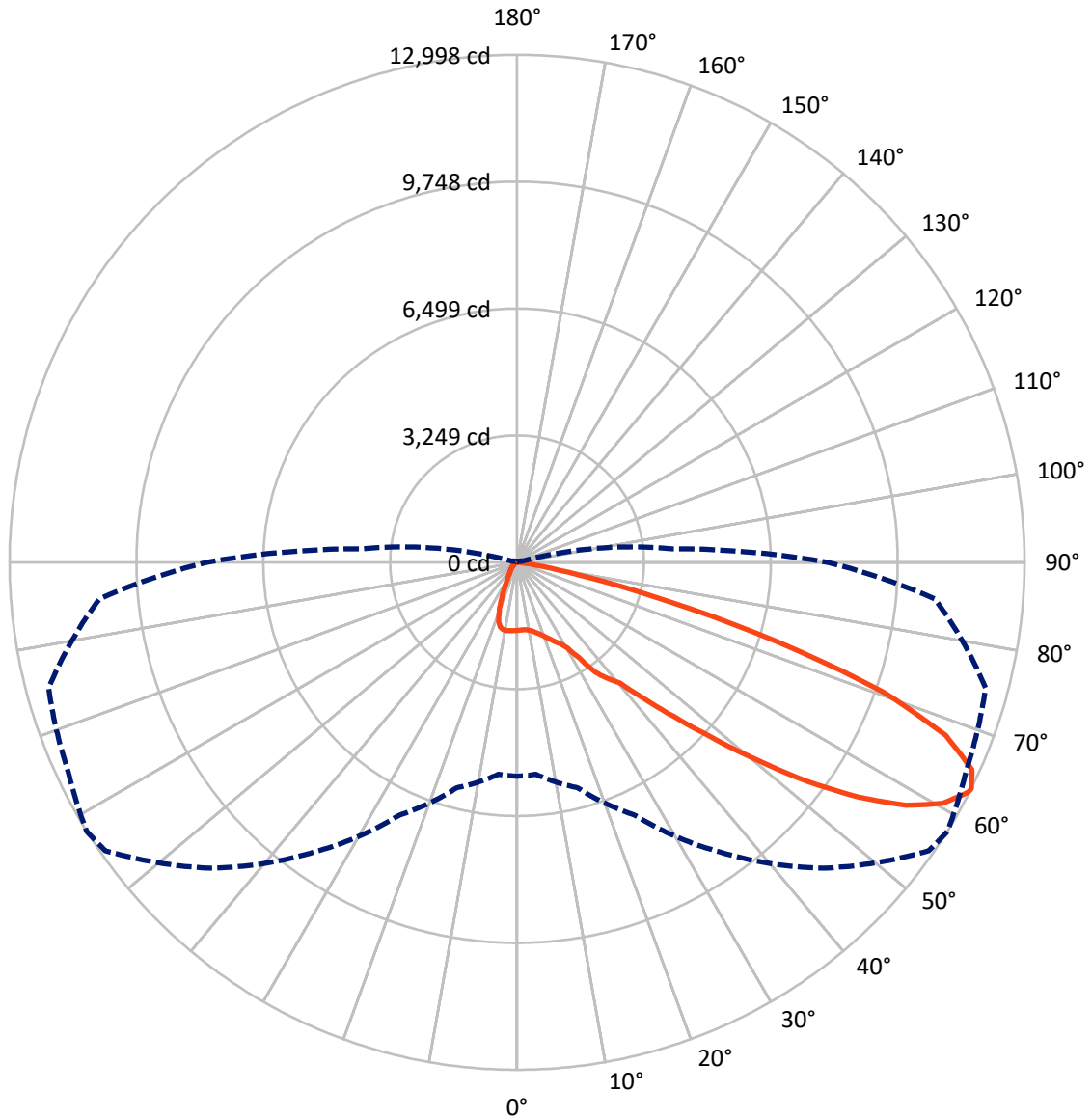
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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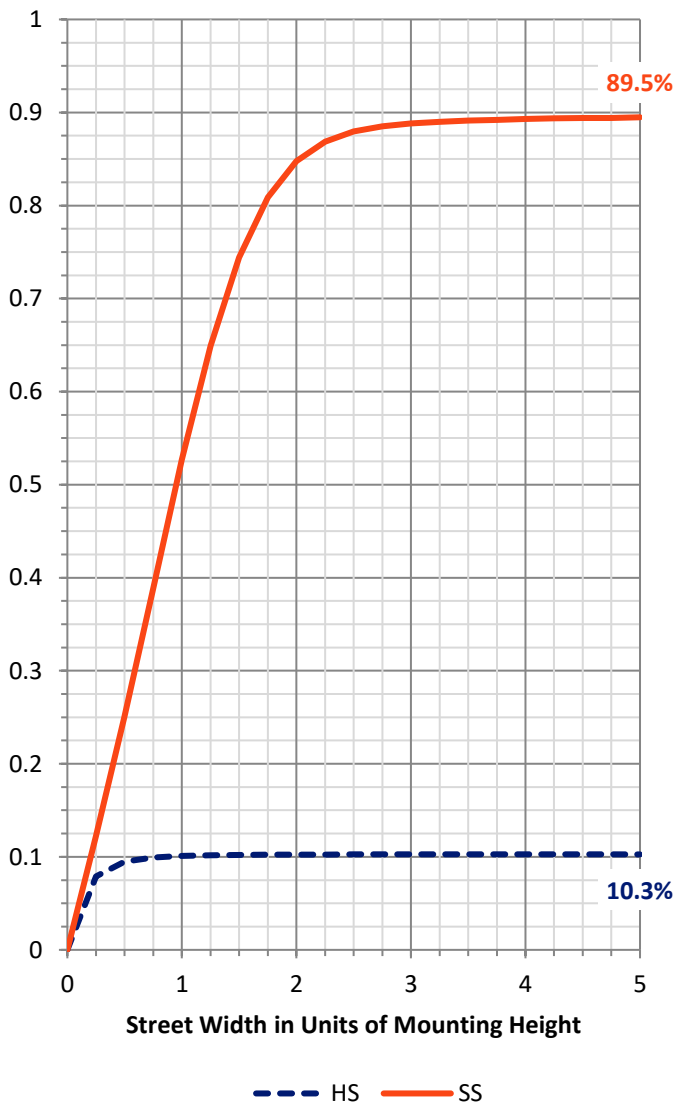
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1614.2 | 0.0 | 1614.2 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 13975.3 | 0.0 | 13975.3 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 15589.5 | 0.0 | 15589.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 163.4 | 1.0 |
| 10°-20° | 445.0 | 2.9 |
| 20°-30° | 772.3 | 5.0 |
| 30°-40° | 1419.2 | 9.1 |
| 40°-50° | 2671.7 | 17.1 |
| 50°-60° | 4569.7 | 29.3 |
| 60°-70° | 4375.5 | 28.1 |
| 70°-80° | 1115.8 | 7.2 |
| 80°-90° | 57.1 | 0.4 |
| 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° | 15589.5 | 100.0 |
| 0°-180° | 15589.5 | 100.0 |

Coefficient of Utilization



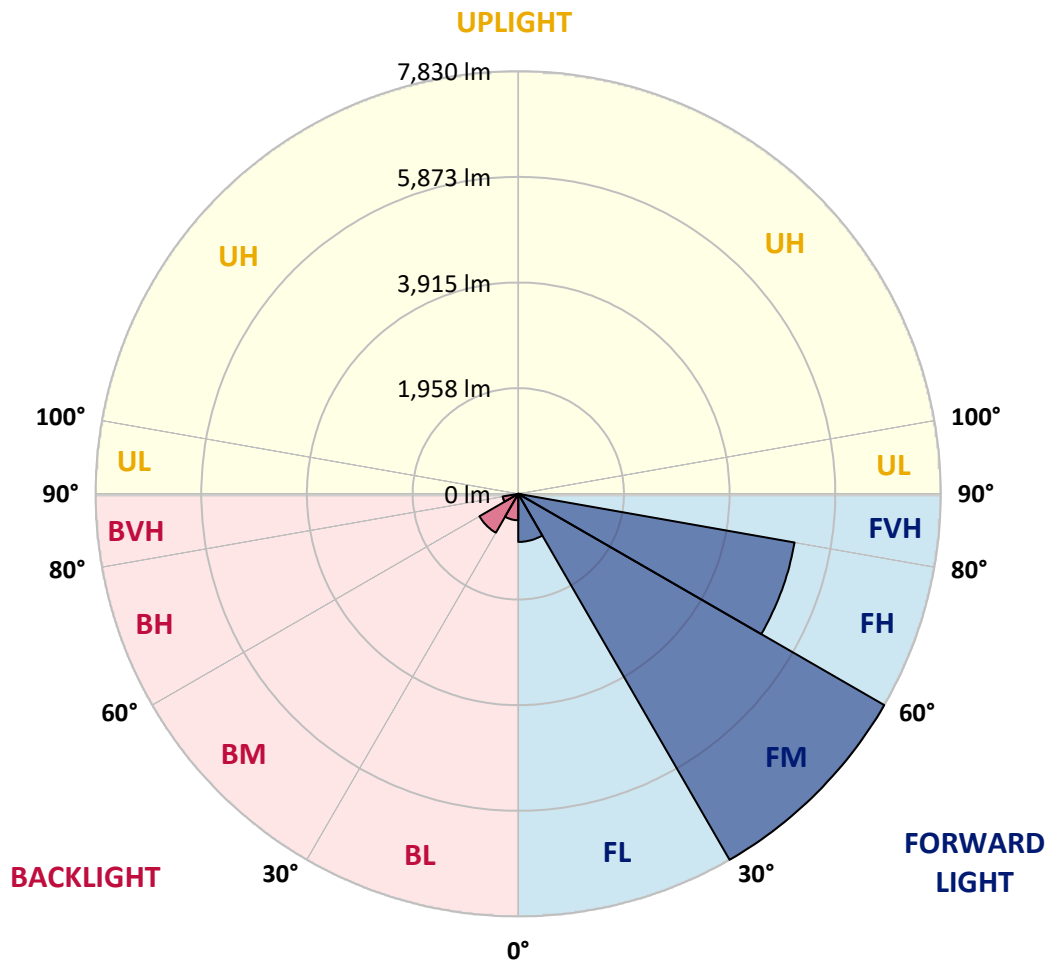
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 891.2 | 5.7 | | | |
| FM (30°-60°) | 7830.3 | 50.2 | | | |
| FH (60°-80°) | 5199.0 | 33.3 | | | G3/7500 |
| FVH (80°-90°) | 54.8 | 0.4 | | | G1/100 |
| BL (0°-30°) | 489.5 | 3.1 | B1/500 | | |
| BM (30°-60°) | 830.2 | 5.3 | B1/1000 | | |
| BH (60°-80°) | 292.2 | 1.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1745.3 | 1745.3 | 1745.3 | 1745.3 | 1745.3 | 1745.3 | 1745.3 | 1745.3 | 1745.3 | 1745.3 | 1745.3 |
| 2.5° | 1701.9 | 1707.7 | 1713.6 | 1715.9 | 1724.2 | 1732.4 | 1738.3 | 1737.1 | 1746.5 | 1751.2 | 1751.2 |
| 5° | 1633.8 | 1633.8 | 1649.1 | 1663.2 | 1686.7 | 1710.1 | 1732.4 | 1737.1 | 1754.7 | 1771.1 | 1777.0 |
| 7.5° | 1576.3 | 1579.8 | 1591.5 | 1617.4 | 1649.1 | 1690.1 | 1734.7 | 1745.3 | 1775.8 | 1812.2 | 1827.4 |
| 10° | 1549.3 | 1551.7 | 1566.9 | 1593.9 | 1633.8 | 1690.1 | 1752.4 | 1772.3 | 1819.2 | 1876.8 | 1897.9 |
| 12.5° | 1543.4 | 1547.0 | 1562.2 | 1592.7 | 1638.5 | 1706.5 | 1791.1 | 1812.2 | 1880.3 | 1954.2 | 1985.9 |
| 15° | 1554.0 | 1556.4 | 1571.6 | 1604.4 | 1654.9 | 1735.9 | 1842.7 | 1872.1 | 1953.0 | 2038.7 | 2079.8 |
| 17.5° | 1591.5 | 1589.2 | 1599.7 | 1626.8 | 1683.1 | 1772.3 | 1905.0 | 1940.1 | 2035.3 | 2152.6 | 2179.6 |
| 20° | 1751.2 | 1735.9 | 1726.5 | 1703.0 | 1725.3 | 1823.9 | 1980.1 | 2031.7 | 2149.1 | 2268.8 | 2287.5 |
| 22.5° | 2095.1 | 2061.0 | 1994.1 | 1902.6 | 1832.1 | 1894.4 | 2070.4 | 2130.3 | 2281.7 | 2399.0 | 2399.0 |
| 25° | 2532.8 | 2489.5 | 2422.5 | 2223.0 | 2050.4 | 2010.6 | 2172.5 | 2247.7 | 2426.0 | 2544.6 | 2505.8 |
| 27.5° | 3081.0 | 3047.0 | 2916.7 | 2684.3 | 2420.2 | 2213.6 | 2291.1 | 2360.4 | 2554.0 | 2697.2 | 2616.2 |
| 30° | 3527.0 | 3510.6 | 3403.8 | 3196.0 | 2904.9 | 2603.3 | 2511.7 | 2557.5 | 2724.2 | 2889.7 | 2806.4 |
| 32.5° | 3903.7 | 3903.7 | 3794.6 | 3600.9 | 3328.6 | 3061.1 | 2886.1 | 2919.0 | 3078.7 | 3270.0 | 3115.0 |
| 35° | 4318.1 | 4304.0 | 4216.0 | 4031.7 | 3726.5 | 3490.6 | 3419.0 | 3463.6 | 3608.0 | 3750.0 | 3368.5 |
| 37.5° | 4753.5 | 4748.8 | 4657.3 | 4478.9 | 4230.1 | 3933.1 | 3765.3 | 3777.0 | 3851.0 | 3937.8 | 3665.5 |
| 40° | 5226.5 | 5233.6 | 5113.9 | 5003.5 | 4768.8 | 4464.8 | 4143.2 | 4069.3 | 4138.5 | 4383.8 | 4213.6 |
| 42.5° | 5785.2 | 5768.8 | 5717.2 | 5566.9 | 5378.0 | 5196.0 | 4809.9 | 4782.9 | 4843.9 | 5106.8 | 4922.6 |
| 45° | 6434.3 | 6457.8 | 6368.5 | 6285.2 | 6158.5 | 6007.0 | 5684.3 | 5637.4 | 5704.2 | 6112.7 | 5851.0 |
| 47.5° | 7084.5 | 7062.2 | 7119.7 | 7104.5 | 7172.5 | 7059.8 | 6774.7 | 6678.4 | 6839.2 | 7226.5 | 6841.5 |
| 50° | 7579.8 | 7604.5 | 7724.2 | 7899.1 | 8191.4 | 8254.7 | 7981.2 | 7948.4 | 8020.0 | 8268.8 | 7727.7 |
| 52.5° | 7901.4 | 7983.5 | 8171.4 | 8620.9 | 9147.9 | 9557.5 | 9349.8 | 9332.2 | 9302.8 | 9369.8 | 8575.1 |
| 55° | 8111.5 | 8194.9 | 8440.2 | 9102.1 | 10009.4 | 10674.9 | 10685.4 | 10610.4 | 10416.7 | 10368.6 | 9367.4 |
| 57.5° | 7982.4 | 7998.8 | 8348.6 | 9233.6 | 10487.1 | 11471.9 | 11817.0 | 11741.8 | 11383.8 | 11201.9 | 10067.0 |
| 60° | 7174.9 | 7208.9 | 7696.0 | 8735.9 | 10279.4 | 11732.4 | 12566.9 | 12532.9 | 12140.9 | 11935.5 | 10611.5 |
| 62.5° | 5744.2 | 5842.7 | 6343.9 | 7503.6 | 9313.4 | 11293.4 | 12870.9 | 12967.2 | 12662.0 | 12379.2 | 10782.8 |
| 63° | 5481.2 | 5449.5 | 5978.9 | 7144.4 | 9057.5 | 11076.3 | 12875.6 | 12997.6 | 12685.5 | 12421.4 | 10735.9 |
| 65° | 4057.5 | 4152.6 | 4496.5 | 5633.8 | 7537.5 | 10065.8 | 12585.7 | 12801.7 | 12598.6 | 12234.8 | 10216.0 |
| 67.5° | 2278.1 | 2273.4 | 2653.7 | 3686.6 | 5275.9 | 7895.5 | 11380.3 | 11836.8 | 11794.6 | 10978.9 | 8468.3 |
| 70° | 1115.0 | 1132.6 | 1288.7 | 1910.8 | 3059.9 | 5447.2 | 9456.6 | 9949.6 | 9964.8 | 8623.3 | 5855.7 |
| 72.5° | 504.7 | 512.9 | 624.4 | 930.8 | 1572.7 | 2900.2 | 6516.4 | 6987.1 | 6900.3 | 5495.3 | 3233.6 |
| 75° | 266.5 | 284.1 | 343.9 | 468.3 | 758.2 | 1196.0 | 3544.6 | 4000.0 | 3818.1 | 2510.5 | 1190.2 |
| 77.5° | 197.2 | 203.0 | 233.6 | 298.1 | 406.1 | 466.0 | 1529.4 | 1819.2 | 1704.2 | 908.4 | 394.4 |
| 80° | 144.4 | 149.1 | 173.7 | 211.3 | 255.9 | 237.1 | 576.3 | 660.8 | 592.7 | 308.7 | 120.9 |
| 82.5° | 88.0 | 89.2 | 126.8 | 157.3 | 160.8 | 132.6 | 190.1 | 204.2 | 213.6 | 173.7 | 65.7 |
| 85° | 31.7 | 39.9 | 85.7 | 113.8 | 95.1 | 66.9 | 79.8 | 88.0 | 96.2 | 110.3 | 38.8 |
| 87.5° | 3.5 | 4.7 | 41.1 | 55.2 | 27.0 | 24.7 | 29.4 | 32.9 | 35.2 | 41.1 | 18.8 |
| 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° | 1745.3 | 1745.3 | 1745.3 | 1745.3 | 1745.3 | 1745.3 | 1745.3 | 1745.3 | 1745.3 | 1745.3 | 1745.3 |
| 2.5° | 1755.9 | 1760.6 | 1757.1 | 1751.2 | 1750.0 | 1746.5 | 1739.4 | 1739.4 | 1739.4 | 1741.8 | 1739.4 |
| 5° | 1781.7 | 1785.2 | 1777.0 | 1765.3 | 1752.4 | 1735.9 | 1718.3 | 1707.7 | 1706.5 | 1704.2 | 1698.3 |
| 7.5° | 1831.0 | 1835.7 | 1816.9 | 1788.8 | 1753.5 | 1713.6 | 1676.1 | 1640.9 | 1624.4 | 1611.5 | 1611.5 |
| 10° | 1902.6 | 1907.3 | 1869.7 | 1819.2 | 1748.8 | 1667.9 | 1578.6 | 1497.6 | 1434.3 | 1404.9 | 1397.9 |
| 12.5° | 1988.3 | 1990.6 | 1928.4 | 1840.4 | 1724.2 | 1568.1 | 1377.9 | 1200.7 | 1077.5 | 1021.1 | 1015.2 |
| 15° | 2082.2 | 2065.7 | 1983.6 | 1848.6 | 1653.8 | 1362.7 | 1034.0 | 816.9 | 689.0 | 651.4 | 665.5 |
| 17.5° | 2177.2 | 2146.8 | 2025.9 | 1835.7 | 1495.3 | 1034.0 | 694.8 | 557.5 | 517.6 | 507.1 | 507.1 |
| 20° | 2266.5 | 2224.2 | 2056.3 | 1779.4 | 1220.7 | 712.5 | 515.3 | 482.4 | 475.4 | 468.3 | 469.5 |
| 22.5° | 2355.7 | 2291.1 | 2083.3 | 1653.8 | 909.6 | 509.4 | 461.3 | 450.7 | 441.3 | 431.9 | 430.7 |
| 25° | 2442.5 | 2353.3 | 2093.9 | 1421.4 | 619.7 | 437.8 | 421.3 | 407.3 | 388.5 | 378.0 | 375.6 |
| 27.5° | 2532.8 | 2428.4 | 2086.9 | 1127.9 | 451.9 | 392.0 | 375.6 | 355.6 | 333.3 | 314.5 | 314.5 |
| 30° | 2706.6 | 2571.6 | 2062.2 | 811.0 | 380.3 | 345.1 | 323.9 | 292.2 | 267.6 | 248.8 | 247.7 |
| 32.5° | 2943.7 | 2758.2 | 1977.7 | 570.4 | 338.0 | 304.0 | 272.3 | 237.1 | 211.3 | 197.2 | 197.2 |
| 35° | 3154.9 | 2946.0 | 1819.2 | 420.2 | 304.0 | 264.1 | 225.3 | 191.3 | 171.4 | 162.0 | 158.5 |
| 37.5° | 3476.5 | 3220.6 | 1600.9 | 341.5 | 271.2 | 228.9 | 188.9 | 157.3 | 140.9 | 133.8 | 133.8 |
| 40° | 3958.9 | 3556.3 | 1333.4 | 299.3 | 239.4 | 194.8 | 157.3 | 132.6 | 119.7 | 111.5 | 111.5 |
| 42.5° | 4557.5 | 3967.1 | 1062.2 | 268.8 | 210.1 | 167.9 | 131.5 | 112.7 | 100.9 | 95.1 | 93.9 |
| 45° | 5311.0 | 4400.2 | 818.1 | 240.6 | 186.6 | 143.2 | 111.5 | 95.1 | 83.3 | 79.8 | 81.0 |
| 47.5° | 6097.5 | 4781.7 | 633.8 | 216.0 | 162.0 | 120.9 | 95.1 | 82.1 | 73.9 | 69.2 | 69.2 |
| 50° | 6768.8 | 5044.6 | 481.2 | 187.8 | 143.2 | 102.1 | 83.3 | 73.9 | 66.9 | 64.5 | 63.3 |
| 52.5° | 7329.8 | 5120.9 | 368.6 | 163.2 | 125.6 | 88.0 | 73.9 | 66.9 | 61.0 | 57.6 | 57.6 |
| 55° | 7807.5 | 5054.0 | 288.8 | 137.3 | 105.6 | 76.3 | 65.7 | 59.8 | 52.9 | 49.3 | 48.2 |
| 57.5° | 8086.9 | 4839.2 | 220.6 | 113.8 | 85.7 | 63.3 | 57.6 | 50.5 | 42.3 | 36.4 | 36.4 |
| 60° | 8227.7 | 4527.0 | 169.0 | 93.9 | 65.7 | 50.5 | 47.0 | 37.6 | 29.4 | 24.7 | 23.5 |
| 62.5° | 8058.7 | 4112.7 | 127.9 | 73.9 | 49.3 | 37.6 | 31.7 | 27.0 | 18.8 | 14.1 | 14.1 |
| 63° | 7954.3 | 3993.0 | 123.2 | 70.4 | 45.8 | 35.2 | 29.4 | 24.7 | 16.4 | 12.9 | 11.7 |
| 65° | 7251.2 | 3470.6 | 100.9 | 56.4 | 36.4 | 24.7 | 20.0 | 17.6 | 11.7 | 5.9 | 4.7 |
| 67.5° | 5758.3 | 2654.9 | 79.8 | 42.3 | 25.8 | 17.6 | 11.7 | 10.6 | 3.5 | 0.0 | 0.0 |
| 70° | 3893.2 | 1714.8 | 62.2 | 30.5 | 17.6 | 10.6 | 5.9 | 4.7 | 1.2 | 0.0 | 0.0 |
| 72.5° | 2030.6 | 879.1 | 48.2 | 22.3 | 10.6 | 7.0 | 3.5 | 1.2 | 0.0 | 0.0 | 0.0 |
| 75° | 718.3 | 299.3 | 35.2 | 14.1 | 7.0 | 3.5 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 217.1 | 111.5 | 22.3 | 10.6 | 4.7 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 76.3 | 41.1 | 12.9 | 7.0 | 3.5 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 37.6 | 20.0 | 8.2 | 5.9 | 3.5 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 21.1 | 12.9 | 7.0 | 5.9 | 3.5 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 15.3 | 9.4 | 7.0 | 5.9 | 4.7 | 2.3 | 1.2 | 0.0 | 0.0 | 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)