

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: P194532

Luminaire Tested: **GAN-AF-04-LED-U-SL4-7060-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-SL4-7060-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12840 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 129
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: 28.75 FT

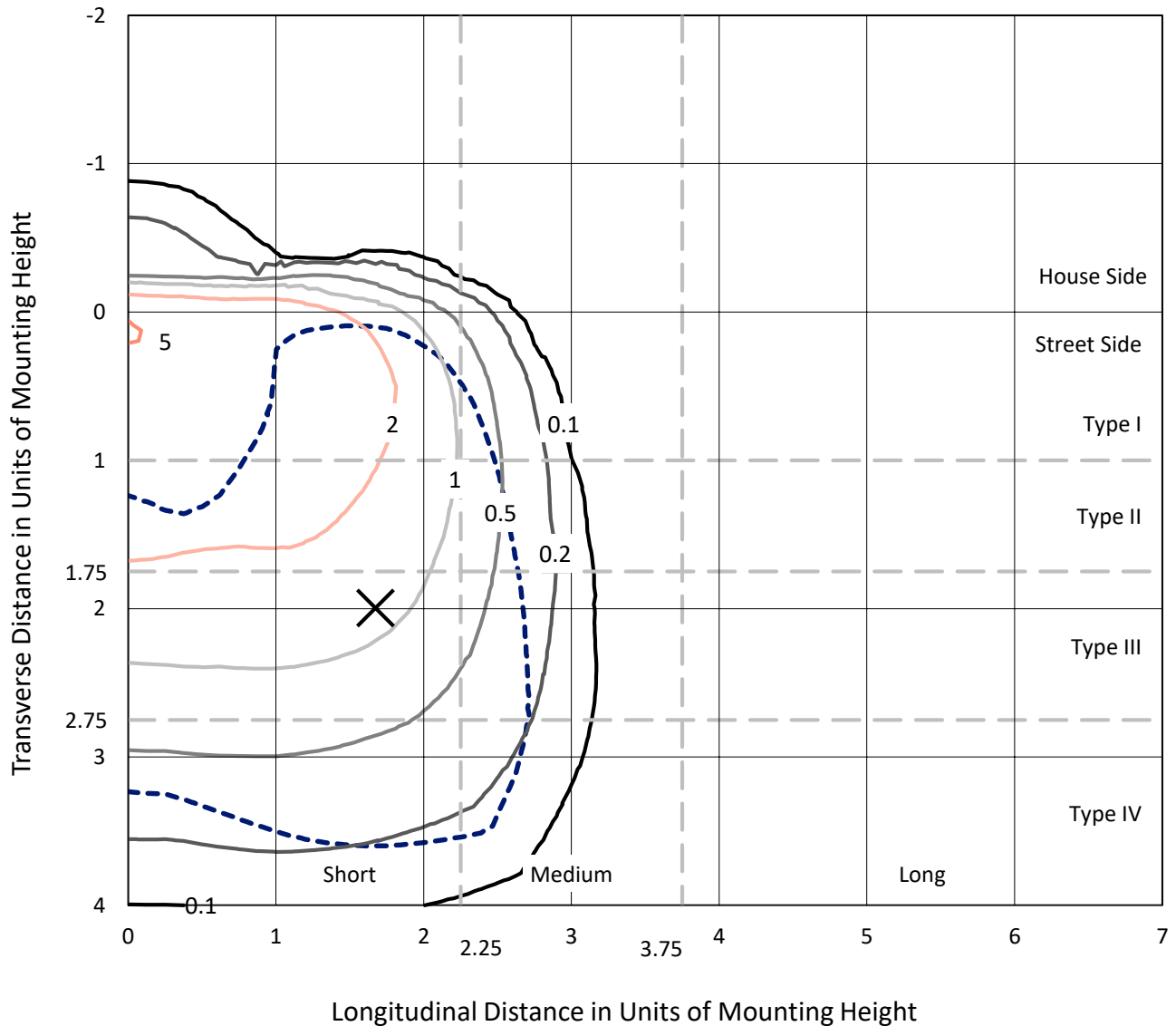


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

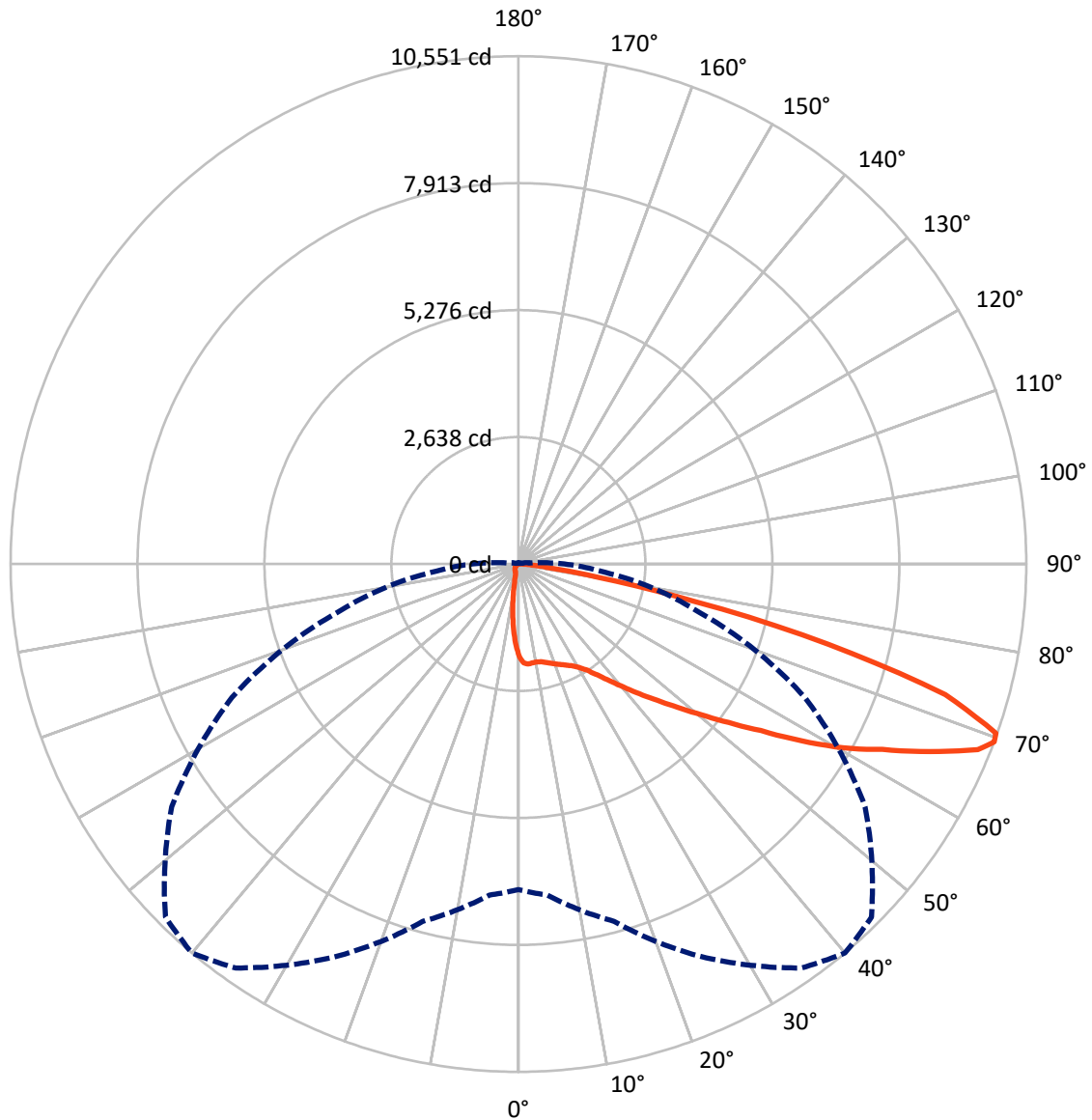


Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 751.2 | 0.0 | 751.2 |
| | % Fixture | 5.9 | 0.0 | 5.9 |
| Street Side | Lumens | 12088.8 | 0.0 | 12088.8 |
| | % Fixture | 94.1 | 0.0 | 94.1 |
| Total | Lumens | 12840.0 | 0.0 | 12840.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 155.5 | 1.2 |
| 10°-20° | 382.5 | 3.0 |
| 20°-30° | 644.3 | 5.0 |
| 30°-40° | 1054.7 | 8.2 |
| 40°-50° | 1826.2 | 14.2 |
| 50°-60° | 2876.4 | 22.4 |
| 60°-70° | 3756.4 | 29.3 |
| 70°-80° | 1934.7 | 15.1 |
| 80°-90° | 209.3 | 1.6 |
| 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° | 12840.0 | 100.0 |
| 0°-180° | 12840.0 | 100.0 |

Coefficient of Utilization



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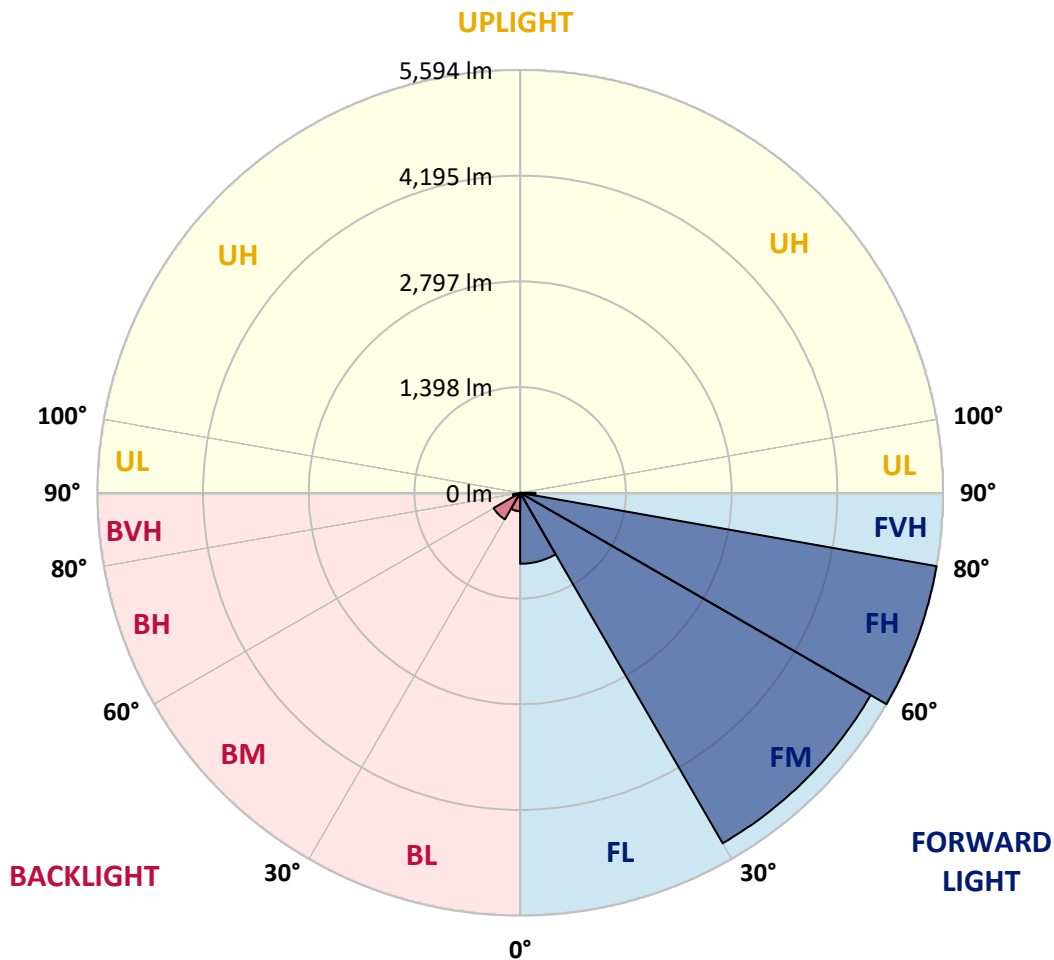
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 939.0 | 7.3 | | | |
| FM | (30°-60°) | 5353.5 | 41.7 | | | |
| FH | (60°-80°) | 5593.6 | 43.6 | | | G3/7500 |
| FVH | (80°-90°) | 202.7 | 1.6 | | | G2/225 |
| BL | (0°-30°) | 243.3 | 1.9 | B1/500 | | |
| BM | (30°-60°) | 403.8 | 3.1 | B1/1000 | | |
| BH | (60°-80°) | 97.5 | 0.8 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 6.6 | 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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 1918.4 | 1918.4 | 1918.4 | 1918.4 | 1918.4 | 1918.4 | 1918.4 | 1918.4 | 1918.4 | 1918.4 | 1918.4 |
| 2.5° | 2106.4 | 2094.9 | 2088.0 | 2078.9 | 2067.4 | 2057.5 | 2053.6 | 2025.4 | 1998.6 | 1961.9 | 1919.9 |
| 5° | 2145.4 | 2141.5 | 2129.3 | 2117.1 | 2103.3 | 2088.0 | 2079.6 | 2046.0 | 2007.8 | 1954.3 | 1880.9 |
| 7.5° | 2149.2 | 2144.6 | 2129.3 | 2112.5 | 2093.4 | 2075.0 | 2060.5 | 2026.9 | 1991.7 | 1937.5 | 1848.0 |
| 10° | 2143.1 | 2137.7 | 2126.2 | 2107.9 | 2084.2 | 2066.6 | 2052.1 | 2020.0 | 1990.2 | 1941.3 | 1841.9 |
| 12.5° | 2136.2 | 2130.8 | 2125.5 | 2116.3 | 2095.7 | 2083.4 | 2071.2 | 2040.6 | 2013.9 | 1972.6 | 1864.1 |
| 15° | 2143.1 | 2140.0 | 2146.1 | 2142.3 | 2130.8 | 2120.1 | 2107.9 | 2080.4 | 2055.9 | 2021.5 | 1904.6 |
| 17.5° | 2172.1 | 2172.1 | 2191.2 | 2193.5 | 2182.8 | 2167.5 | 2149.9 | 2122.4 | 2101.8 | 2072.7 | 1952.8 |
| 20° | 2240.1 | 2237.8 | 2262.3 | 2266.9 | 2240.9 | 2217.2 | 2191.2 | 2157.6 | 2141.5 | 2123.2 | 2000.1 |
| 22.5° | 2357.1 | 2346.4 | 2360.9 | 2356.3 | 2305.1 | 2268.4 | 2236.3 | 2195.0 | 2186.6 | 2178.2 | 2052.9 |
| 25° | 2509.2 | 2503.0 | 2513.0 | 2467.9 | 2377.7 | 2328.0 | 2289.8 | 2243.2 | 2243.2 | 2251.6 | 2112.5 |
| 27.5° | 2730.0 | 2707.1 | 2673.5 | 2594.0 | 2458.7 | 2395.3 | 2354.0 | 2304.3 | 2317.3 | 2348.7 | 2191.2 |
| 30° | 2956.3 | 2931.0 | 2853.9 | 2731.6 | 2557.3 | 2490.8 | 2442.7 | 2390.7 | 2421.3 | 2478.6 | 2296.7 |
| 32.5° | 3179.4 | 3151.2 | 3041.9 | 2887.5 | 2698.7 | 2632.2 | 2585.6 | 2528.3 | 2579.5 | 2675.8 | 2451.1 |
| 35° | 3395.7 | 3370.5 | 3244.4 | 3062.5 | 2886.7 | 2831.7 | 2788.9 | 2739.2 | 2804.9 | 2939.5 | 2668.9 |
| 37.5° | 3638.8 | 3611.3 | 3457.6 | 3260.5 | 3115.2 | 3075.5 | 3044.2 | 2994.5 | 3109.1 | 3306.3 | 2972.3 |
| 40° | 3937.6 | 3891.0 | 3683.9 | 3487.4 | 3379.7 | 3360.6 | 3339.2 | 3332.3 | 3510.4 | 3783.2 | 3376.6 |
| 42.5° | 4280.0 | 4203.6 | 3920.8 | 3726.7 | 3670.1 | 3683.9 | 3678.5 | 3709.1 | 4012.5 | 4376.3 | 3868.8 |
| 45° | 4622.4 | 4523.8 | 4184.5 | 3981.9 | 3989.6 | 4037.7 | 4067.5 | 4189.8 | 4641.5 | 5056.5 | 4398.5 |
| 47.5° | 4912.8 | 4815.8 | 4437.5 | 4257.8 | 4349.6 | 4444.3 | 4525.3 | 4756.9 | 5288.1 | 5726.0 | 4810.4 |
| 50° | 5161.2 | 5069.5 | 4705.7 | 4561.3 | 4767.6 | 4920.5 | 5051.9 | 5395.1 | 5983.6 | 6235.8 | 5099.3 |
| 52.5° | 5364.5 | 5303.4 | 4983.9 | 4909.0 | 5245.3 | 5469.2 | 5661.8 | 6073.0 | 6599.6 | 6650.1 | 5324.0 |
| 55° | 5562.5 | 5518.9 | 5282.8 | 5322.5 | 5806.3 | 6111.2 | 6355.1 | 6792.2 | 7130.0 | 6995.5 | 5539.6 |
| 57.5° | 5790.2 | 5750.5 | 5623.6 | 5846.8 | 6543.8 | 6927.5 | 7193.5 | 7429.6 | 7597.0 | 7348.6 | 5742.9 |
| 60° | 6022.6 | 5999.7 | 6002.7 | 6429.2 | 7390.7 | 7759.0 | 7905.8 | 7966.9 | 8055.6 | 7681.1 | 5754.3 |
| 62.5° | 6244.2 | 6287.8 | 6436.1 | 7077.3 | 8201.6 | 8484.4 | 8558.5 | 8618.9 | 8514.9 | 7733.8 | 5316.4 |
| 65° | 6619.5 | 6690.6 | 7044.4 | 7944.8 | 9093.5 | 9396.2 | 9472.6 | 9265.5 | 8587.5 | 7052.1 | 4324.3 |
| 67.5° | 6802.9 | 6932.9 | 7564.2 | 8753.4 | 9958.7 | 10295.0 | 10266.7 | 9307.5 | 7706.3 | 5377.5 | 2775.1 |
| 69° | 6764.7 | 6903.0 | 7684.1 | 9001.0 | 10246.0 | 10551.0 | 10371.4 | 8793.1 | 6565.2 | 3895.6 | 1703.6 |
| 70° | 6613.4 | 6753.2 | 7622.2 | 8991.8 | 10282.7 | 10524.2 | 10177.3 | 8158.0 | 5551.0 | 2848.5 | 1065.4 |
| 72.5° | 5522.7 | 5643.5 | 6767.0 | 8127.4 | 9472.6 | 9276.2 | 8514.2 | 5651.9 | 2704.8 | 775.8 | 240.0 |
| 75° | 3399.6 | 3466.8 | 4855.5 | 6122.7 | 7154.5 | 6650.1 | 5672.5 | 2811.8 | 806.3 | 219.4 | 133.0 |
| 77.5° | 1796.1 | 1826.6 | 2658.2 | 3609.0 | 4535.3 | 3752.7 | 2907.4 | 1096.8 | 371.4 | 137.6 | 96.3 |
| 80° | 1061.6 | 1084.5 | 1431.5 | 1650.1 | 1962.7 | 1639.4 | 1162.5 | 673.3 | 266.0 | 86.4 | 85.6 |
| 82.5° | 607.6 | 622.1 | 1037.9 | 917.1 | 773.5 | 660.3 | 578.6 | 638.2 | 159.7 | 58.1 | 88.7 |
| 85° | 223.2 | 226.2 | 583.9 | 697.8 | 460.1 | 273.6 | 287.4 | 528.9 | 42.8 | 36.7 | 69.6 |
| 87.5° | 103.9 | 101.7 | 300.4 | 427.2 | 269.0 | 173.5 | 223.9 | 116.2 | 16.8 | 23.7 | 19.1 |
| 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° | 1918.4 | 1918.4 | 1918.4 | 1918.4 | 1918.4 | 1918.4 | 1918.4 | 1918.4 | 1918.4 | 1918.4 | 1918.4 |
| 2.5° | 1895.4 | 1867.2 | 1815.9 | 1763.2 | 1709.7 | 1668.4 | 1627.9 | 1595.8 | 1585.1 | 1565.3 | 1566.8 |
| 5° | 1837.3 | 1785.4 | 1678.4 | 1569.8 | 1456.7 | 1363.5 | 1275.6 | 1204.5 | 1170.1 | 1135.0 | 1135.0 |
| 7.5° | 1786.9 | 1711.2 | 1543.9 | 1367.3 | 1184.6 | 1031.0 | 892.7 | 788.7 | 731.4 | 685.6 | 684.8 |
| 10° | 1767.8 | 1665.4 | 1431.5 | 1178.5 | 924.0 | 714.6 | 550.3 | 444.8 | 390.6 | 355.4 | 353.9 |
| 12.5° | 1776.2 | 1649.3 | 1345.1 | 1004.3 | 684.8 | 459.3 | 318.7 | 250.7 | 227.8 | 217.1 | 217.1 |
| 15° | 1800.7 | 1644.7 | 1258.8 | 833.8 | 483.8 | 287.4 | 211.7 | 193.4 | 191.8 | 191.8 | 191.8 |
| 17.5° | 1830.5 | 1646.3 | 1170.1 | 668.0 | 329.4 | 205.6 | 182.7 | 180.4 | 181.9 | 181.9 | 181.9 |
| 20° | 1861.0 | 1647.0 | 1074.6 | 514.4 | 232.3 | 178.8 | 172.0 | 171.2 | 172.7 | 172.7 | 173.5 |
| 22.5° | 1898.5 | 1650.9 | 979.1 | 384.4 | 191.8 | 168.9 | 163.6 | 163.6 | 164.3 | 164.3 | 163.6 |
| 25° | 1941.3 | 1658.5 | 879.7 | 285.1 | 175.0 | 162.0 | 157.4 | 156.7 | 157.4 | 156.7 | 155.9 |
| 27.5° | 1994.8 | 1669.2 | 768.9 | 223.2 | 167.4 | 155.2 | 151.3 | 151.3 | 150.6 | 149.8 | 149.0 |
| 30° | 2062.0 | 1681.4 | 644.3 | 189.5 | 159.7 | 149.0 | 145.2 | 144.5 | 143.7 | 142.2 | 142.2 |
| 32.5° | 2164.5 | 1708.2 | 521.2 | 172.0 | 151.3 | 140.6 | 137.6 | 137.6 | 136.0 | 134.5 | 133.8 |
| 35° | 2321.9 | 1760.9 | 411.2 | 161.3 | 142.2 | 131.5 | 127.6 | 127.6 | 126.1 | 125.3 | 124.6 |
| 37.5° | 2539.7 | 1841.2 | 319.5 | 151.3 | 133.0 | 121.5 | 117.7 | 116.9 | 115.4 | 113.9 | 113.1 |
| 40° | 2829.4 | 1940.5 | 251.5 | 142.2 | 123.8 | 111.6 | 108.5 | 107.0 | 103.9 | 101.7 | 101.7 |
| 42.5° | 3193.2 | 2053.6 | 204.1 | 132.2 | 113.1 | 102.4 | 100.1 | 97.8 | 92.5 | 90.2 | 89.4 |
| 45° | 3573.8 | 2155.3 | 172.7 | 120.8 | 102.4 | 93.2 | 91.7 | 87.9 | 81.0 | 78.7 | 78.7 |
| 47.5° | 3848.2 | 2179.0 | 152.1 | 110.1 | 92.5 | 83.3 | 82.5 | 75.7 | 69.6 | 68.0 | 67.3 |
| 50° | 4019.4 | 2132.4 | 135.3 | 99.4 | 83.3 | 74.1 | 71.8 | 63.4 | 59.6 | 58.1 | 57.3 |
| 52.5° | 4134.8 | 2049.1 | 121.5 | 90.2 | 74.9 | 65.7 | 60.4 | 54.3 | 51.2 | 49.7 | 49.7 |
| 55° | 4227.3 | 1931.4 | 107.8 | 81.8 | 68.0 | 58.9 | 51.2 | 46.6 | 43.6 | 42.0 | 42.0 |
| 57.5° | 4253.3 | 1771.6 | 94.0 | 74.9 | 61.1 | 52.0 | 43.6 | 40.5 | 36.7 | 35.9 | 35.9 |
| 60° | 4064.5 | 1483.5 | 83.3 | 66.5 | 55.0 | 45.1 | 38.2 | 34.4 | 30.6 | 29.8 | 29.0 |
| 62.5° | 3566.9 | 1148.0 | 73.4 | 58.9 | 48.2 | 39.0 | 32.9 | 28.3 | 25.2 | 25.2 | 25.2 |
| 65° | 2720.9 | 769.6 | 64.2 | 51.2 | 42.0 | 32.9 | 28.3 | 22.9 | 21.4 | 21.4 | 22.2 |
| 67.5° | 1628.7 | 418.8 | 55.0 | 43.6 | 35.9 | 27.5 | 23.7 | 19.9 | 19.1 | 19.9 | 19.9 |
| 69° | 954.6 | 246.1 | 49.7 | 39.0 | 31.3 | 24.5 | 20.6 | 17.6 | 19.1 | 19.9 | 19.9 |
| 70° | 589.3 | 165.9 | 45.9 | 35.2 | 28.3 | 22.2 | 19.1 | 16.8 | 18.3 | 19.1 | 19.1 |
| 72.5° | 164.3 | 85.6 | 36.7 | 27.5 | 22.9 | 18.3 | 15.3 | 15.3 | 17.6 | 18.3 | 18.3 |
| 75° | 107.0 | 63.4 | 28.3 | 20.6 | 17.6 | 14.5 | 13.0 | 14.5 | 16.8 | 17.6 | 17.6 |
| 77.5° | 88.7 | 52.0 | 22.9 | 16.8 | 14.5 | 13.8 | 12.2 | 13.0 | 15.3 | 16.1 | 16.1 |
| 80° | 81.0 | 36.7 | 18.3 | 15.3 | 13.0 | 12.2 | 11.5 | 10.7 | 13.8 | 14.5 | 14.5 |
| 82.5° | 77.2 | 29.0 | 16.1 | 13.8 | 12.2 | 10.7 | 9.9 | 10.7 | 12.2 | 13.0 | 13.8 |
| 85° | 48.2 | 19.1 | 14.5 | 13.0 | 10.7 | 9.9 | 9.9 | 9.9 | 11.5 | 12.2 | 12.2 |
| 87.5° | 17.6 | 15.3 | 13.0 | 10.7 | 9.2 | 9.2 | 9.2 | 9.2 | 9.9 | 11.5 | 11.5 |
| 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)