

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: P382797

Luminaire Tested: **GAN-SA1D-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6193.9 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

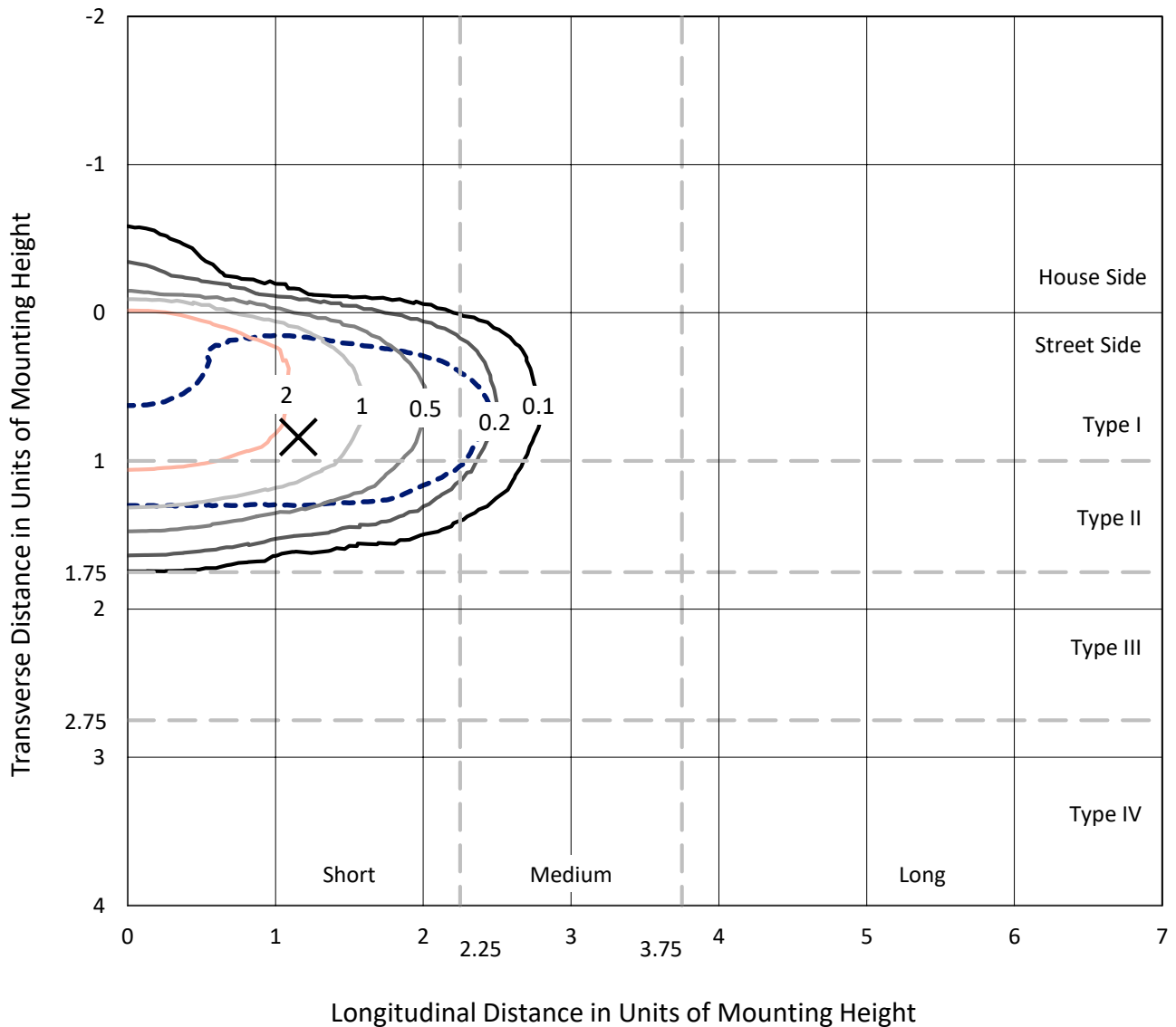
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

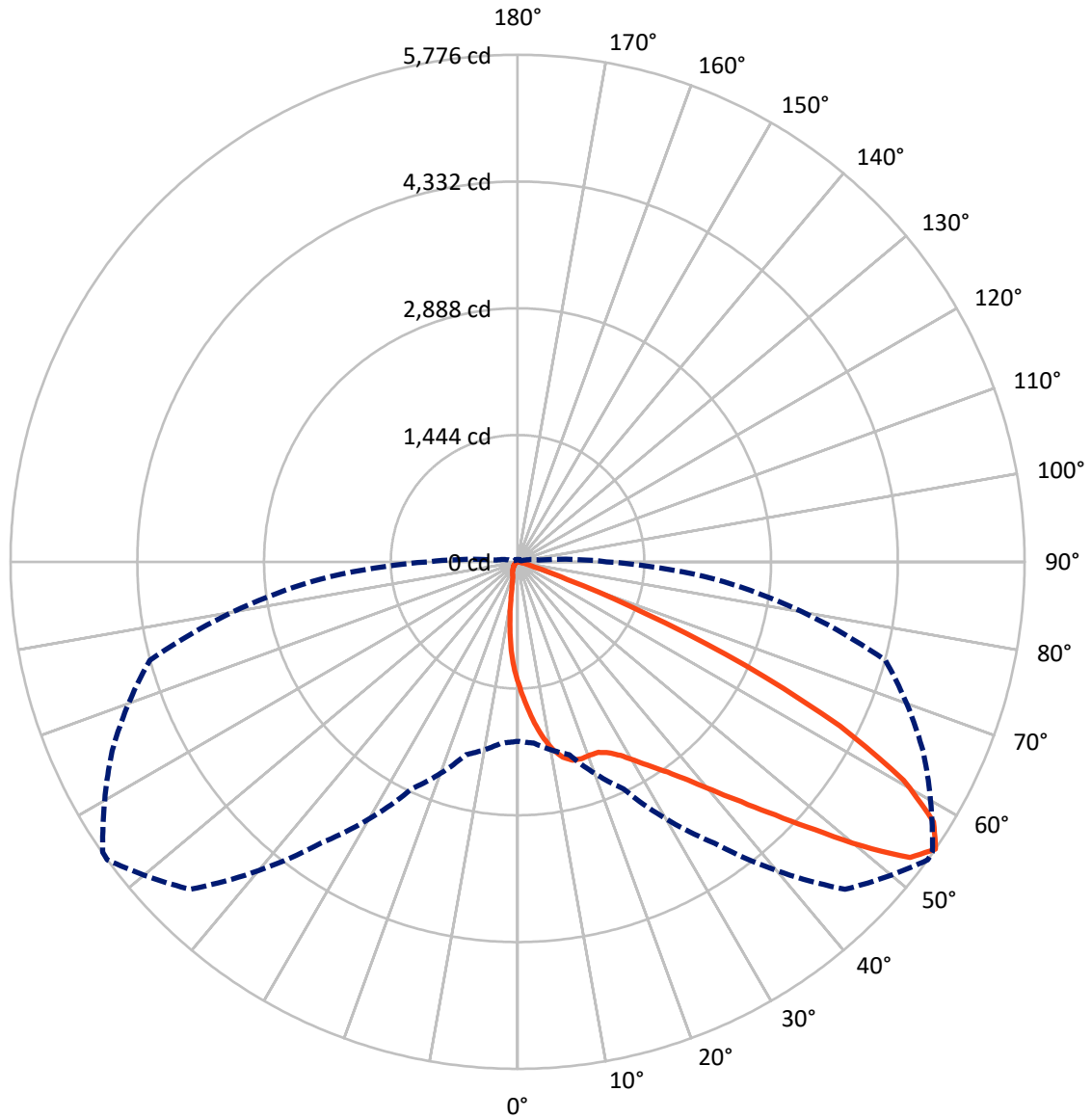
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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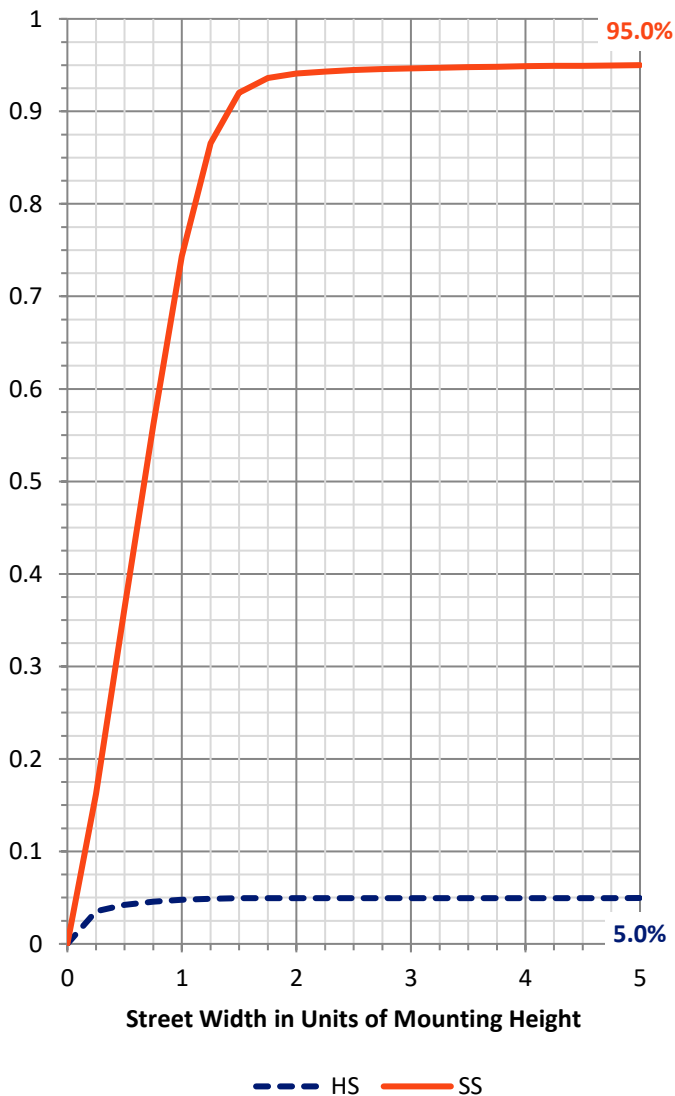
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 309.0 | 0.0 | 309.0 |
| | % Fixture | 5.0 | 0.0 | 5.0 |
| Street Side | Lumens | 5884.8 | 0.0 | 5884.8 |
| | % Fixture | 95.0 | 0.0 | 95.0 |
| Total | Lumens | 6193.9 | 0.0 | 6193.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 127.7 | 2.1 |
| 10°-20° | 350.3 | 5.7 |
| 20°-30° | 598.1 | 9.7 |
| 30°-40° | 959.9 | 15.5 |
| 40°-50° | 1534.0 | 24.8 |
| 50°-60° | 1643.7 | 26.5 |
| 60°-70° | 843.9 | 13.6 |
| 70°-80° | 127.8 | 2.1 |
| 80°-90° | 8.3 | 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° | 6193.9 | 100.0 |
| 0°-180° | 6193.9 | 100.0 |

Coefficient of Utilization

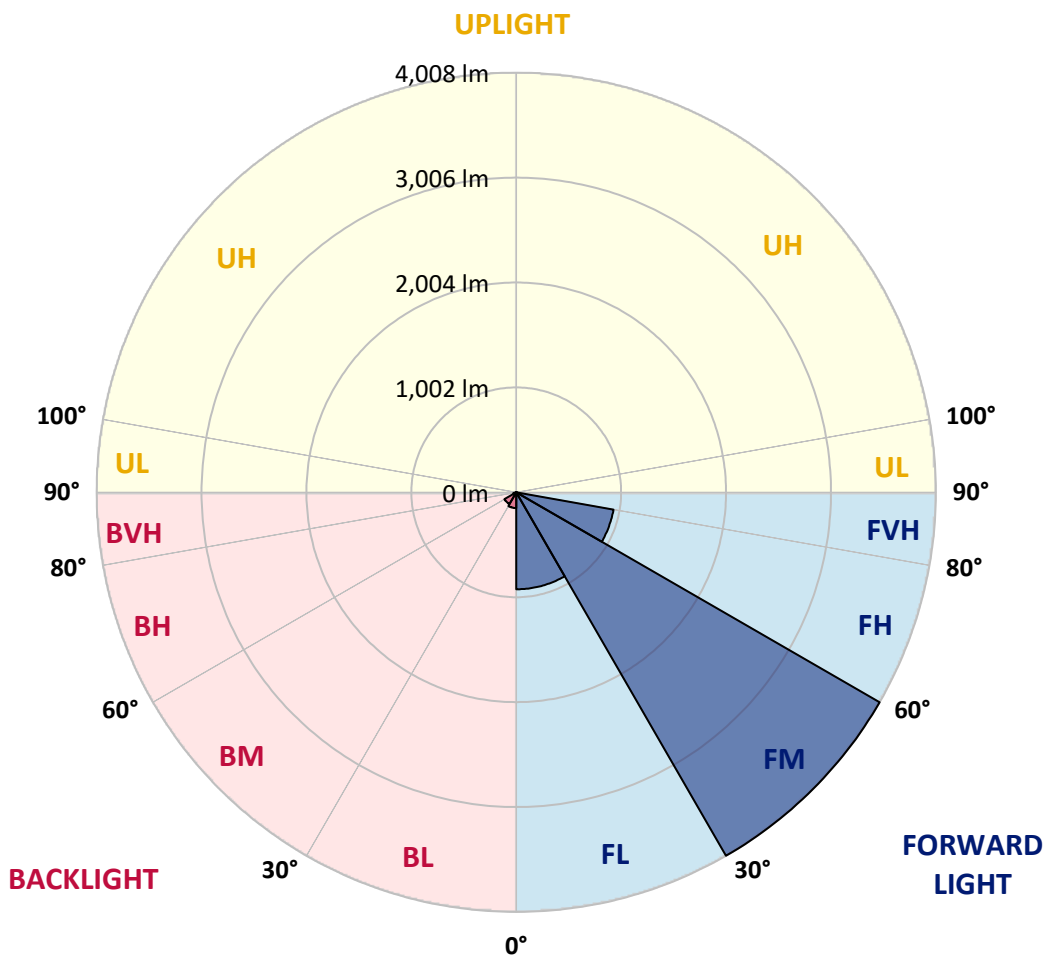


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 925.9 | 14.9 | | | |
| FM (30°-60°) | 4007.7 | 64.7 | | | |
| FH (60°-80°) | 943.3 | 15.2 | | | G1/1800 |
| FVH (80°-90°) | 8.0 | 0.1 | | | G0/10 |
| BL (0°-30°) | 150.4 | 2.4 | B1/500 | | |
| BM (30°-60°) | 129.9 | 2.1 | B0/220 | | |
| BH (60°-80°) | 28.5 | 0.5 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.3 | 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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 |
| 2.5° | 1740.8 | 1714.9 | 1715.6 | 1703.9 | 1660.9 | 1627.1 | 1592.1 | 1583.8 | 1529.2 | 1471.9 | 1416.9 |
| 5° | 2041.7 | 2022.8 | 2018.2 | 1995.5 | 1935.5 | 1872.1 | 1804.2 | 1788.4 | 1681.7 | 1564.5 | 1449.2 |
| 7.5° | 2196.3 | 2196.6 | 2192.9 | 2184.6 | 2147.1 | 2085.5 | 2002.6 | 1986.1 | 1840.8 | 1665.0 | 1482.9 |
| 10° | 2151.4 | 2161.6 | 2182.4 | 2210.0 | 2238.6 | 2230.8 | 2168.5 | 2153.6 | 1995.7 | 1771.5 | 1520.4 |
| 12.5° | 2046.5 | 2047.8 | 2071.1 | 2116.4 | 2198.7 | 2283.2 | 2284.3 | 2279.2 | 2143.6 | 1882.8 | 1561.6 |
| 15° | 1994.4 | 1999.5 | 2008.0 | 2037.2 | 2115.3 | 2250.6 | 2347.4 | 2354.7 | 2279.2 | 2001.1 | 1605.4 |
| 17.5° | 2028.6 | 2035.8 | 2028.6 | 2032.1 | 2077.3 | 2199.0 | 2358.4 | 2376.8 | 2397.7 | 2118.0 | 1646.9 |
| 20° | 2121.4 | 2128.1 | 2115.3 | 2101.1 | 2110.0 | 2184.0 | 2350.7 | 2375.5 | 2490.6 | 2221.7 | 1681.7 |
| 22.5° | 2246.6 | 2249.3 | 2229.8 | 2206.5 | 2200.0 | 2234.9 | 2357.1 | 2382.7 | 2564.9 | 2315.6 | 1703.6 |
| 25° | 2384.4 | 2386.8 | 2362.4 | 2335.7 | 2320.4 | 2334.6 | 2409.7 | 2429.0 | 2630.4 | 2405.3 | 1716.2 |
| 27.5° | 2534.5 | 2536.6 | 2506.0 | 2473.2 | 2455.5 | 2456.0 | 2496.7 | 2517.3 | 2700.3 | 2507.4 | 1726.3 |
| 30° | 2693.0 | 2692.0 | 2663.9 | 2618.1 | 2595.7 | 2595.1 | 2621.8 | 2642.7 | 2801.3 | 2638.5 | 1740.2 |
| 32.5° | 2871.2 | 2869.1 | 2829.2 | 2772.5 | 2747.0 | 2750.8 | 2774.6 | 2786.6 | 2926.8 | 2778.1 | 1765.1 |
| 35° | 3105.8 | 3099.6 | 3039.5 | 2969.1 | 2922.3 | 2921.0 | 2941.0 | 2950.6 | 3086.8 | 2947.1 | 1806.6 |
| 37.5° | 3410.2 | 3404.5 | 3322.9 | 3220.8 | 3155.0 | 3130.4 | 3154.2 | 3166.5 | 3314.9 | 3164.1 | 1873.2 |
| 40° | 3710.3 | 3704.7 | 3656.2 | 3562.6 | 3461.3 | 3402.1 | 3420.8 | 3434.0 | 3599.8 | 3427.3 | 1957.2 |
| 42.5° | 3917.3 | 3922.1 | 3939.0 | 3946.8 | 3851.8 | 3727.7 | 3736.3 | 3749.9 | 3899.1 | 3708.7 | 2053.2 |
| 45° | 3971.8 | 3982.3 | 4077.6 | 4264.5 | 4300.1 | 4203.2 | 4113.6 | 4121.2 | 4203.2 | 3990.1 | 2149.3 |
| 47.5° | 3807.9 | 3827.2 | 4011.0 | 4358.6 | 4659.9 | 4728.3 | 4558.7 | 4548.8 | 4495.1 | 4217.7 | 2217.5 |
| 50° | 3435.3 | 3453.0 | 3691.0 | 4205.4 | 4769.0 | 5229.6 | 5092.1 | 5063.0 | 4751.1 | 4353.9 | 2241.5 |
| 52.5° | 2896.1 | 2917.4 | 3110.8 | 3722.8 | 4563.3 | 5453.2 | 5597.1 | 5572.8 | 4938.9 | 4364.6 | 2245.5 |
| 55° | 2045.2 | 2071.1 | 2275.8 | 2853.2 | 3911.5 | 5275.4 | 5776.1 | 5768.9 | 5094.8 | 4336.2 | 2254.1 |
| 57.5° | 1149.3 | 1168.1 | 1388.8 | 1829.1 | 2864.8 | 4594.9 | 5589.1 | 5637.0 | 5188.9 | 4287.0 | 2266.9 |
| 60° | 510.4 | 515.4 | 629.6 | 910.5 | 1677.2 | 3511.6 | 5053.8 | 5134.6 | 5108.1 | 4221.2 | 2288.6 |
| 62.5° | 283.0 | 278.7 | 278.7 | 378.5 | 728.9 | 2173.9 | 4121.2 | 4254.7 | 4763.4 | 4143.3 | 2289.7 |
| 65° | 221.7 | 217.7 | 206.2 | 207.8 | 277.7 | 964.8 | 2853.8 | 3091.1 | 4108.6 | 3915.2 | 2212.6 |
| 67.5° | 188.1 | 184.5 | 173.1 | 168.5 | 172.5 | 318.3 | 1568.0 | 1814.4 | 3117.5 | 3322.2 | 1916.6 |
| 70° | 158.9 | 156.5 | 150.6 | 144.9 | 134.8 | 157.2 | 600.0 | 767.4 | 1921.0 | 2210.0 | 1308.3 |
| 72.5° | 127.9 | 126.8 | 128.9 | 124.1 | 111.8 | 104.9 | 205.1 | 248.5 | 862.9 | 986.2 | 539.0 |
| 75° | 110.2 | 109.6 | 110.8 | 105.9 | 92.0 | 73.0 | 104.3 | 113.9 | 243.4 | 241.3 | 109.2 |
| 77.5° | 71.7 | 72.5 | 91.8 | 89.6 | 79.2 | 48.7 | 54.0 | 58.3 | 73.9 | 55.3 | 33.2 |
| 80° | 45.7 | 45.2 | 46.6 | 74.3 | 71.2 | 37.2 | 27.0 | 28.3 | 35.6 | 27.3 | 16.0 |
| 82.5° | 27.9 | 27.3 | 30.5 | 34.7 | 35.9 | 26.0 | 16.6 | 16.9 | 22.2 | 17.7 | 8.6 |
| 85° | 2.4 | 3.2 | 18.4 | 17.1 | 12.3 | 8.0 | 8.0 | 8.6 | 11.7 | 10.4 | 4.8 |
| 87.5° | 0.0 | 0.0 | 3.2 | 4.8 | 2.7 | 3.0 | 3.0 | 3.2 | 4.6 | 4.6 | 2.4 |
| 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° | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 |
| 2.5° | 1388.3 | 1360.4 | 1304.3 | 1250.2 | 1204.5 | 1160.3 | 1110.0 | 1060.3 | 1037.0 | 1027.7 | 1018.1 |
| 5° | 1390.6 | 1333.4 | 1217.6 | 1101.0 | 980.1 | 871.2 | 778.4 | 683.2 | 635.5 | 614.6 | 605.0 |
| 7.5° | 1393.9 | 1306.7 | 1119.4 | 923.6 | 728.9 | 581.3 | 452.4 | 369.4 | 333.6 | 327.9 | 314.0 |
| 10° | 1394.4 | 1274.3 | 1005.5 | 727.8 | 488.7 | 350.4 | 269.6 | 226.8 | 211.1 | 208.4 | 203.8 |
| 12.5° | 1395.5 | 1236.1 | 878.9 | 539.0 | 325.8 | 234.3 | 195.0 | 180.8 | 176.5 | 176.2 | 176.2 |
| 15° | 1398.7 | 1195.9 | 747.7 | 388.4 | 234.0 | 185.7 | 171.2 | 165.5 | 164.0 | 164.8 | 164.5 |
| 17.5° | 1398.7 | 1148.6 | 618.7 | 289.4 | 189.1 | 166.9 | 158.9 | 155.1 | 154.6 | 155.4 | 155.7 |
| 20° | 1388.5 | 1091.0 | 500.4 | 225.2 | 167.7 | 154.9 | 147.7 | 144.2 | 142.8 | 143.4 | 143.6 |
| 22.5° | 1364.2 | 1020.4 | 404.2 | 186.4 | 153.5 | 143.9 | 136.2 | 130.8 | 128.6 | 128.9 | 128.9 |
| 25° | 1326.2 | 936.8 | 316.2 | 161.3 | 142.1 | 132.1 | 123.1 | 116.9 | 115.5 | 115.3 | 115.8 |
| 27.5° | 1277.5 | 844.2 | 251.7 | 142.1 | 128.4 | 119.1 | 109.9 | 104.9 | 103.8 | 104.1 | 104.3 |
| 30° | 1229.6 | 748.1 | 198.5 | 125.8 | 113.2 | 104.3 | 97.3 | 94.9 | 94.9 | 95.8 | 96.0 |
| 32.5° | 1185.8 | 655.9 | 157.1 | 111.5 | 99.5 | 91.5 | 87.5 | 87.2 | 88.5 | 89.1 | 89.3 |
| 35° | 1148.0 | 570.6 | 130.0 | 100.6 | 88.8 | 81.9 | 80.5 | 81.6 | 83.2 | 84.2 | 84.5 |
| 37.5° | 1121.3 | 494.3 | 113.6 | 91.5 | 80.5 | 74.9 | 74.6 | 76.8 | 78.9 | 81.3 | 81.9 |
| 40° | 1110.0 | 429.8 | 102.5 | 83.5 | 73.9 | 69.6 | 68.7 | 71.7 | 75.7 | 79.2 | 79.7 |
| 42.5° | 1100.7 | 377.2 | 92.8 | 75.7 | 68.5 | 62.3 | 62.0 | 65.8 | 70.6 | 74.1 | 74.9 |
| 45° | 1092.7 | 334.9 | 84.0 | 67.4 | 61.5 | 53.5 | 54.3 | 59.2 | 62.9 | 66.6 | 67.4 |
| 47.5° | 1076.1 | 300.1 | 74.3 | 58.6 | 50.9 | 45.7 | 47.3 | 51.6 | 54.6 | 60.2 | 61.0 |
| 50° | 1046.4 | 271.7 | 64.5 | 47.9 | 41.5 | 39.6 | 42.0 | 44.9 | 48.7 | 53.5 | 54.0 |
| 52.5° | 1026.4 | 250.4 | 55.9 | 40.1 | 34.3 | 34.7 | 37.2 | 38.3 | 40.4 | 42.3 | 41.7 |
| 55° | 1014.8 | 238.6 | 48.9 | 34.7 | 29.2 | 30.7 | 31.3 | 30.0 | 28.9 | 27.0 | 26.2 |
| 57.5° | 1013.5 | 227.9 | 43.6 | 30.2 | 25.7 | 26.5 | 24.6 | 20.0 | 16.3 | 14.2 | 13.6 |
| 60° | 1011.4 | 214.8 | 39.3 | 25.4 | 22.7 | 21.7 | 17.7 | 11.0 | 7.7 | 7.3 | 7.3 |
| 62.5° | 988.1 | 194.5 | 36.1 | 21.4 | 19.3 | 16.3 | 10.2 | 5.1 | 4.3 | 4.6 | 4.6 |
| 65° | 914.0 | 166.1 | 32.9 | 17.4 | 15.3 | 11.7 | 5.1 | 3.0 | 1.6 | 1.9 | 1.9 |
| 67.5° | 777.0 | 132.4 | 29.4 | 13.4 | 11.5 | 7.5 | 3.0 | 1.3 | 0.0 | 0.0 | 0.0 |
| 70° | 520.3 | 82.2 | 24.9 | 9.3 | 7.5 | 4.6 | 2.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| 72.5° | 199.5 | 44.4 | 20.0 | 5.6 | 4.8 | 3.2 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 44.9 | 29.2 | 13.9 | 4.0 | 3.4 | 2.1 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 17.1 | 21.1 | 8.0 | 2.7 | 2.4 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 8.3 | 12.6 | 3.7 | 1.6 | 1.3 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 4.3 | 4.8 | 1.6 | 0.8 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 2.4 | 2.4 | 0.8 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.3 | 0.8 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 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)