

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: P268562

Luminaire Tested: **GAN-AF-06-LED-U-5MQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-06-LED-U-5MQ-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21408.1 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 193
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

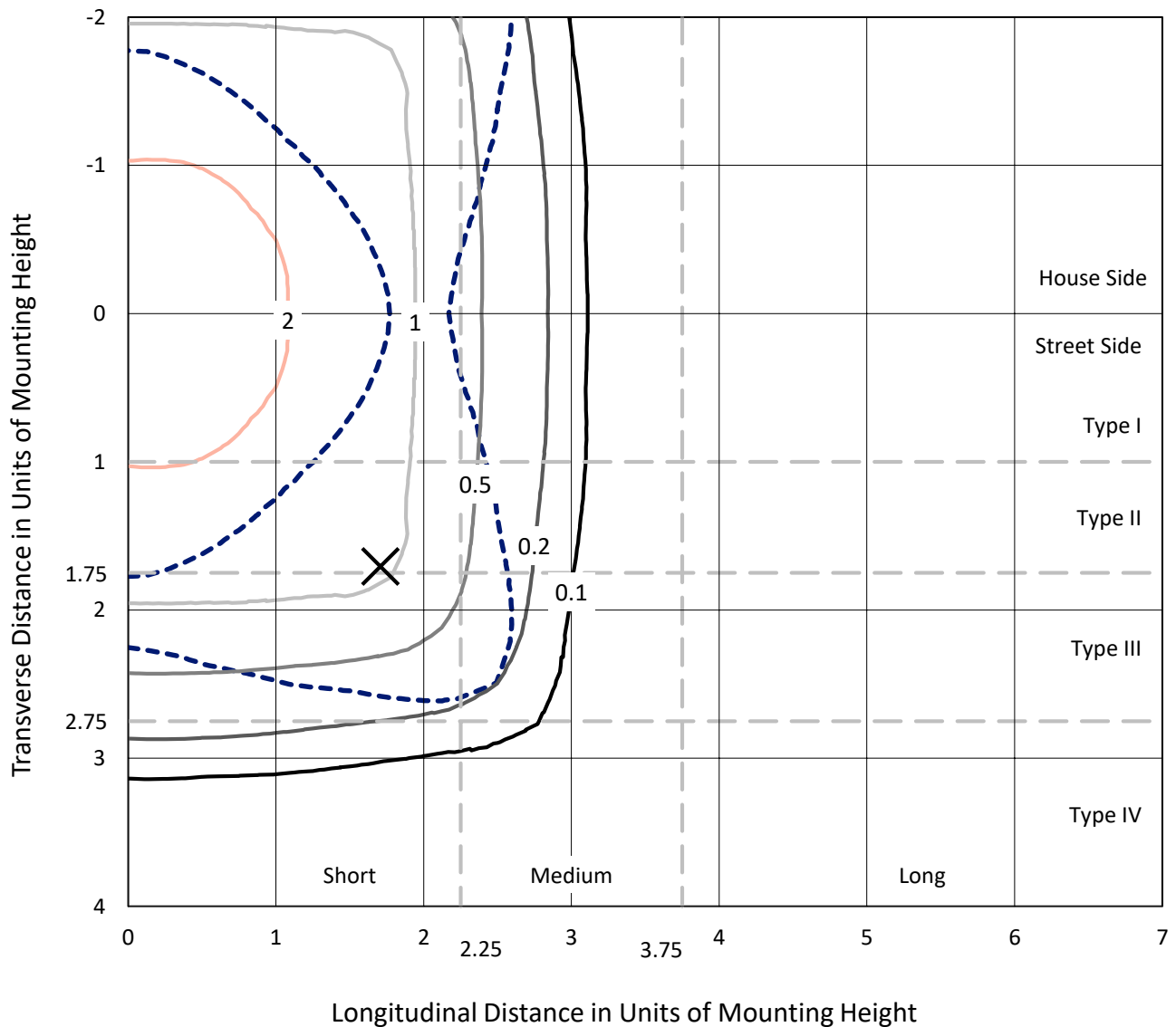


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

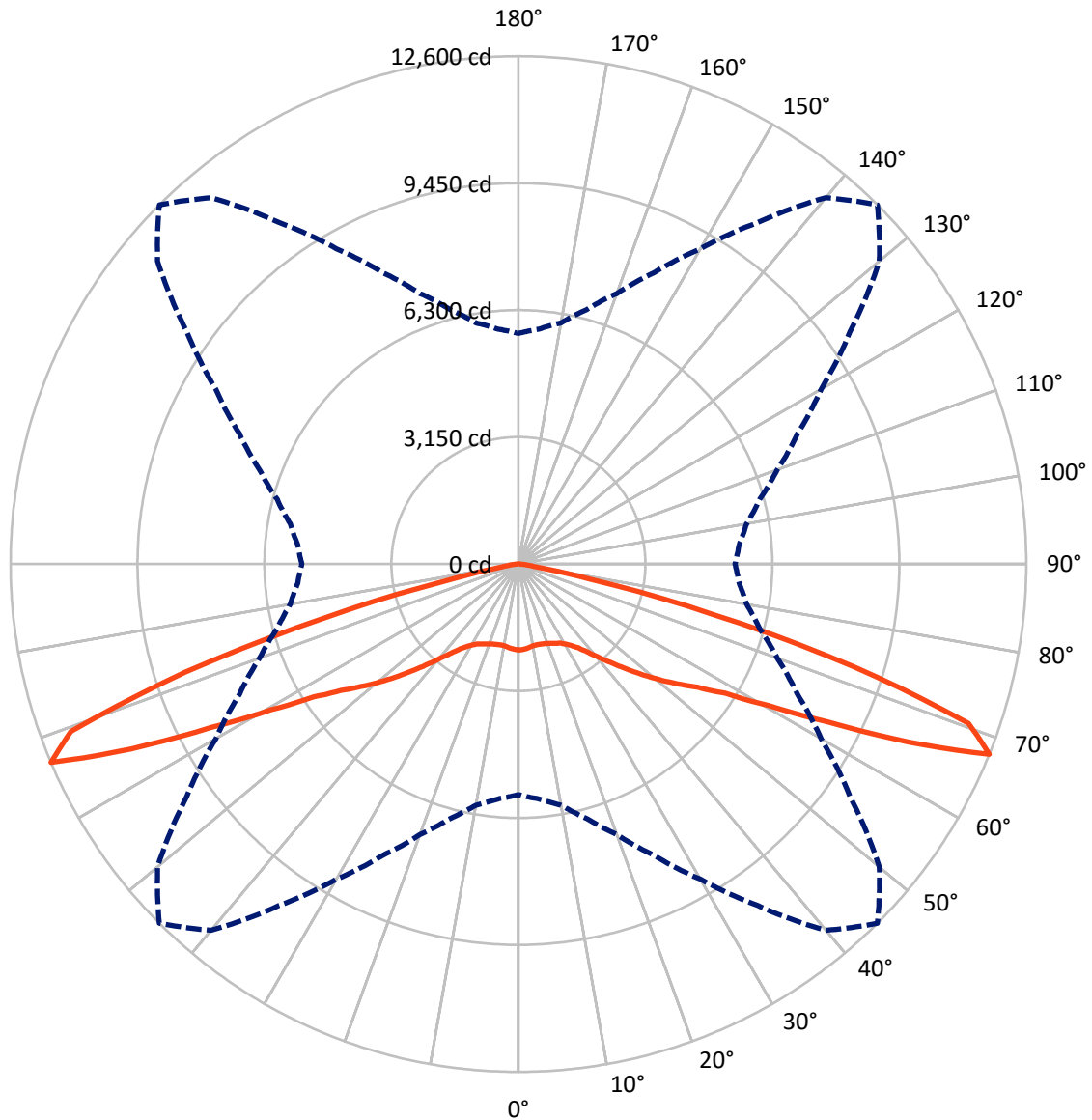


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10704.0 | 0.0 | 10704.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 10704.0 | 0.0 | 10704.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 21408.1 | 0.0 | 21408.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 199.7 | 0.9 |
| 10°-20° | 579.4 | 2.7 |
| 20°-30° | 985.0 | 4.6 |
| 30°-40° | 1610.2 | 7.5 |
| 40°-50° | 2874.5 | 13.4 |
| 50°-60° | 4846.5 | 22.6 |
| 60°-70° | 7521.0 | 35.1 |
| 70°-80° | 2642.5 | 12.3 |
| 80°-90° | 149.3 | 0.7 |
| 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° | 21408.1 | 100.0 |
| 0°-180° | 21408.1 | 100.0 |



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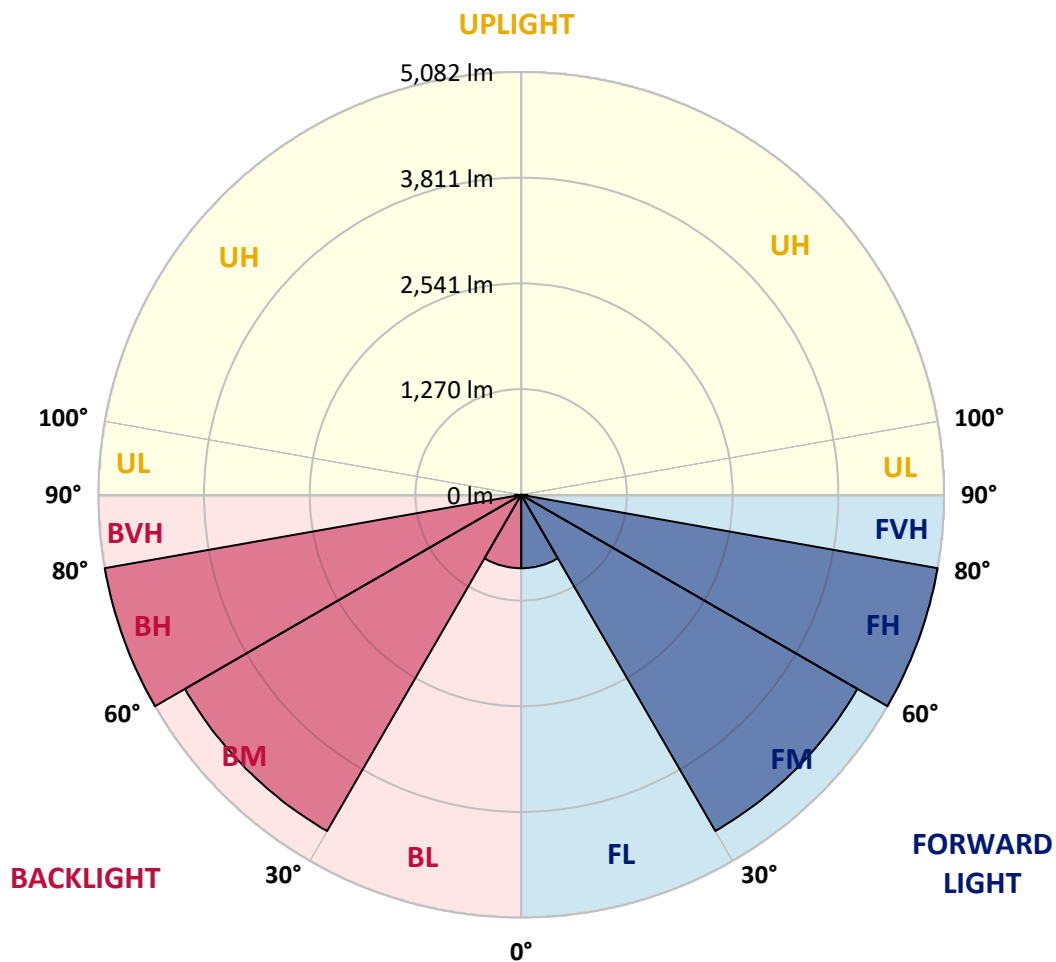
CATALOG NUMBER: GAN-AF-06-LED-U-5MQ-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 882.1 | 4.1 | | | |
| FM | (30°-60°) | 4665.6 | 21.8 | | | |
| FH | (60°-80°) | 5081.8 | 23.7 | | | G3/7500 |
| FVH | (80°-90°) | 74.7 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 882.1 | 4.1 | B2/1000 | | |
| BM | (30°-60°) | 4665.6 | 21.8 | B3/5000 | | |
| BH | (60°-80°) | 5081.8 | 23.7 | B5 | | G3/7500 |
| BVH | (80°-90°) | 74.7 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 2133.5 | 2133.5 | 2133.5 | 2133.5 | 2133.5 | 2133.5 | 2133.5 | 2133.5 | 2133.5 | 2133.5 | 2133.5 |
| 2.5° | 2125.5 | 2127.5 | 2127.5 | 2127.5 | 2126.5 | 2126.5 | 2124.5 | 2126.5 | 2125.5 | 2122.5 | 2123.6 |
| 5° | 2107.9 | 2109.8 | 2109.8 | 2108.9 | 2111.7 | 2110.7 | 2107.9 | 2109.8 | 2108.9 | 2106.9 | 2107.9 |
| 7.5° | 2082.2 | 2085.1 | 2085.1 | 2084.2 | 2087.1 | 2086.1 | 2084.2 | 2085.1 | 2085.1 | 2082.2 | 2082.2 |
| 10° | 2053.6 | 2055.6 | 2055.6 | 2054.7 | 2059.5 | 2059.5 | 2058.6 | 2061.5 | 2062.5 | 2059.5 | 2057.6 |
| 12.5° | 2027.0 | 2030.0 | 2030.0 | 2033.9 | 2039.0 | 2040.9 | 2045.8 | 2049.8 | 2053.6 | 2052.6 | 2048.8 |
| 15° | 2011.3 | 2013.3 | 2017.2 | 2022.2 | 2030.0 | 2036.9 | 2044.8 | 2053.6 | 2061.5 | 2063.4 | 2057.6 |
| 17.5° | 2001.5 | 2004.5 | 2010.3 | 2017.2 | 2028.1 | 2040.0 | 2051.6 | 2063.4 | 2074.4 | 2078.3 | 2071.4 |
| 20° | 1998.5 | 2000.4 | 2006.5 | 2018.2 | 2033.0 | 2050.7 | 2067.4 | 2081.3 | 2095.9 | 2101.0 | 2095.9 |
| 22.5° | 2004.5 | 2008.4 | 2015.3 | 2029.0 | 2048.8 | 2071.4 | 2091.1 | 2109.8 | 2128.4 | 2137.3 | 2130.4 |
| 25° | 2031.0 | 2035.0 | 2043.9 | 2061.5 | 2083.2 | 2106.9 | 2129.4 | 2151.1 | 2167.9 | 2176.8 | 2171.8 |
| 27.5° | 2080.3 | 2085.1 | 2095.9 | 2113.7 | 2137.3 | 2162.8 | 2187.6 | 2205.2 | 2219.1 | 2222.0 | 2216.1 |
| 30° | 2154.0 | 2164.9 | 2177.8 | 2197.4 | 2224.9 | 2246.7 | 2271.3 | 2286.9 | 2303.8 | 2303.8 | 2298.9 |
| 32.5° | 2269.3 | 2280.1 | 2293.9 | 2312.5 | 2334.2 | 2358.0 | 2379.5 | 2393.4 | 2411.1 | 2411.9 | 2400.2 |
| 35° | 2441.6 | 2446.4 | 2458.3 | 2470.1 | 2489.8 | 2510.5 | 2529.2 | 2538.0 | 2552.9 | 2553.8 | 2542.9 |
| 37.5° | 2669.0 | 2669.9 | 2677.8 | 2681.8 | 2699.4 | 2722.1 | 2739.9 | 2745.8 | 2759.6 | 2757.5 | 2746.7 |
| 40° | 2933.9 | 2938.7 | 2941.7 | 2947.6 | 2966.4 | 2987.9 | 3006.6 | 3009.6 | 3024.4 | 3021.4 | 3007.6 |
| 42.5° | 3239.9 | 3242.0 | 3258.7 | 3267.6 | 3285.3 | 3296.2 | 3319.7 | 3322.7 | 3340.3 | 3332.5 | 3316.8 |
| 45° | 3583.6 | 3601.2 | 3617.0 | 3634.7 | 3653.4 | 3666.3 | 3684.9 | 3681.1 | 3692.8 | 3681.1 | 3672.2 |
| 47.5° | 3944.8 | 3957.8 | 3993.1 | 4020.6 | 4051.1 | 4062.0 | 4088.6 | 4076.8 | 4088.6 | 4071.8 | 4069.0 |
| 50° | 4342.6 | 4365.3 | 4395.8 | 4427.2 | 4459.7 | 4477.5 | 4511.9 | 4497.2 | 4512.9 | 4497.2 | 4488.3 |
| 52.5° | 4734.4 | 4740.4 | 4807.3 | 4853.5 | 4898.8 | 4919.6 | 4940.1 | 4933.3 | 4934.3 | 4933.3 | 4924.5 |
| 55° | 5106.5 | 5120.3 | 5187.4 | 5250.4 | 5329.0 | 5387.1 | 5422.6 | 5418.7 | 5409.9 | 5401.0 | 5386.1 |
| 57.5° | 5526.0 | 5539.8 | 5616.6 | 5694.4 | 5783.9 | 5866.7 | 5938.4 | 6012.4 | 6040.9 | 6048.7 | 6016.3 |
| 60° | 6093.1 | 6092.0 | 6194.4 | 6288.9 | 6417.0 | 6540.0 | 6697.6 | 6858.0 | 7042.2 | 7127.7 | 7014.5 |
| 62.5° | 6669.9 | 6693.6 | 6841.2 | 7008.7 | 7272.5 | 7529.5 | 7819.8 | 8105.3 | 8396.7 | 8634.0 | 8382.1 |
| 65° | 6601.0 | 6691.7 | 6911.2 | 7290.3 | 7777.5 | 8356.5 | 8982.5 | 9645.1 | 10243.7 | 10655.2 | 10193.4 |
| 67.5° | 5720.9 | 5849.9 | 6073.4 | 6534.1 | 7143.5 | 7978.3 | 9029.9 | 10340.2 | 11863.1 | 12599.5 | 11686.9 |
| 70° | 4146.7 | 4292.5 | 4526.6 | 4976.6 | 5580.1 | 6373.7 | 7515.7 | 9089.0 | 11105.1 | 11847.4 | 10842.3 |
| 72.5° | 2063.4 | 2142.3 | 2286.9 | 2573.5 | 3030.3 | 3674.2 | 4709.9 | 6222.0 | 8006.0 | 8687.1 | 7768.6 |
| 75° | 700.9 | 737.4 | 762.0 | 855.5 | 1000.3 | 1253.2 | 1768.1 | 2720.2 | 4149.6 | 4974.6 | 4090.6 |
| 77.5° | 404.6 | 405.7 | 422.4 | 439.1 | 463.6 | 491.3 | 560.2 | 735.4 | 1272.0 | 1806.5 | 1316.2 |
| 80° | 261.9 | 260.9 | 274.7 | 287.5 | 304.2 | 318.0 | 322.0 | 340.6 | 392.7 | 465.7 | 416.5 |
| 82.5° | 135.9 | 152.6 | 183.2 | 199.9 | 231.4 | 237.2 | 229.3 | 222.5 | 235.3 | 244.2 | 250.1 |
| 85° | 74.7 | 64.9 | 97.5 | 126.0 | 139.7 | 141.8 | 141.8 | 133.8 | 138.8 | 135.9 | 147.7 |
| 87.5° | 34.5 | 31.5 | 38.4 | 62.1 | 65.9 | 56.1 | 59.1 | 52.2 | 37.4 | 36.4 | 41.3 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2133.5 | 2133.5 | 2133.5 | 2133.5 | 2133.5 | 2133.5 | 2133.5 | 2133.5 |
| 2.5° | 2123.6 | 2124.5 | 2124.5 | 2127.5 | 2128.4 | 2130.4 | 2132.4 | 2133.5 |
| 5° | 2106.9 | 2109.8 | 2107.9 | 2110.7 | 2110.7 | 2112.8 | 2112.8 | 2113.7 |
| 7.5° | 2082.2 | 2085.1 | 2085.1 | 2085.1 | 2084.2 | 2087.1 | 2087.1 | 2087.1 |
| 10° | 2056.6 | 2058.6 | 2057.6 | 2055.6 | 2053.6 | 2056.6 | 2055.6 | 2054.7 |
| 12.5° | 2048.8 | 2043.9 | 2040.0 | 2038.0 | 2033.9 | 2035.0 | 2032.0 | 2032.0 |
| 15° | 2053.6 | 2044.8 | 2038.0 | 2035.0 | 2031.0 | 2029.0 | 2027.0 | 2028.1 |
| 17.5° | 2066.5 | 2055.6 | 2046.8 | 2041.8 | 2036.9 | 2033.9 | 2030.0 | 2031.0 |
| 20° | 2089.1 | 2076.3 | 2063.4 | 2053.6 | 2044.8 | 2040.0 | 2036.9 | 2036.0 |
| 22.5° | 2122.5 | 2103.9 | 2085.1 | 2070.5 | 2058.6 | 2051.6 | 2048.8 | 2046.8 |
| 25° | 2161.0 | 2140.3 | 2118.7 | 2101.9 | 2090.0 | 2081.3 | 2075.4 | 2075.4 |
| 27.5° | 2209.2 | 2192.5 | 2172.8 | 2153.1 | 2142.3 | 2133.5 | 2129.4 | 2127.5 |
| 30° | 2289.9 | 2274.1 | 2258.3 | 2239.7 | 2225.9 | 2217.0 | 2210.2 | 2204.4 |
| 32.5° | 2393.4 | 2380.5 | 2367.8 | 2353.9 | 2341.2 | 2329.3 | 2318.4 | 2313.6 |
| 35° | 2539.0 | 2529.2 | 2520.4 | 2504.6 | 2499.7 | 2492.7 | 2486.9 | 2481.8 |
| 37.5° | 2739.9 | 2735.9 | 2735.9 | 2719.2 | 2715.2 | 2712.3 | 2706.4 | 2707.3 |
| 40° | 3003.8 | 3007.6 | 3002.8 | 2996.8 | 2993.8 | 2986.0 | 2986.0 | 2992.9 |
| 42.5° | 3315.7 | 3318.8 | 3329.6 | 3319.7 | 3330.6 | 3320.8 | 3314.7 | 3319.7 |
| 45° | 3678.1 | 3688.9 | 3710.5 | 3700.7 | 3707.7 | 3690.9 | 3670.2 | 3671.3 |
| 47.5° | 4084.7 | 4094.6 | 4103.4 | 4096.5 | 4097.4 | 4070.0 | 4042.4 | 4035.5 |
| 50° | 4507.1 | 4511.0 | 4515.9 | 4506.1 | 4508.1 | 4477.5 | 4446.0 | 4447.0 |
| 52.5° | 4924.5 | 4943.2 | 4962.9 | 4936.2 | 4930.3 | 4895.9 | 4851.6 | 4833.9 |
| 55° | 5402.0 | 5428.5 | 5405.9 | 5359.6 | 5313.4 | 5267.0 | 5209.0 | 5199.1 |
| 57.5° | 5990.6 | 5945.4 | 5874.5 | 5786.9 | 5722.9 | 5658.0 | 5598.9 | 5574.3 |
| 60° | 6809.8 | 6639.5 | 6511.5 | 6381.5 | 6299.9 | 6220.0 | 6142.3 | 6130.5 |
| 62.5° | 7967.5 | 7673.1 | 7418.3 | 7149.4 | 6929.9 | 6758.6 | 6621.8 | 6583.3 |
| 65° | 9418.6 | 8722.6 | 8119.2 | 7556.1 | 7066.7 | 6697.6 | 6465.2 | 6362.9 |
| 67.5° | 10042.8 | 8668.6 | 7633.7 | 6834.3 | 6194.4 | 5747.4 | 5496.5 | 5371.4 |
| 70° | 8824.9 | 7188.7 | 6063.5 | 5263.1 | 4680.3 | 4203.8 | 3976.3 | 3842.5 |
| 72.5° | 6071.4 | 4573.0 | 3616.0 | 2951.6 | 2485.9 | 2087.1 | 1929.6 | 1917.8 |
| 75° | 2726.0 | 1805.6 | 1244.4 | 958.9 | 807.2 | 701.9 | 669.4 | 644.9 |
| 77.5° | 763.0 | 564.1 | 503.1 | 470.6 | 439.1 | 402.7 | 388.8 | 391.8 |
| 80° | 371.2 | 350.5 | 336.8 | 316.1 | 287.5 | 256.9 | 243.3 | 249.1 |
| 82.5° | 246.1 | 243.3 | 252.1 | 237.2 | 195.9 | 166.4 | 139.7 | 128.0 |
| 85° | 149.7 | 151.6 | 154.6 | 155.5 | 132.0 | 92.5 | 63.1 | 70.8 |
| 87.5° | 59.1 | 67.9 | 73.8 | 76.7 | 71.9 | 44.2 | 35.5 | 36.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)