

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: P268325

Luminaire Tested: **GAN-AF-03-LED-U-5NQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-5NQ-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16286.7 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

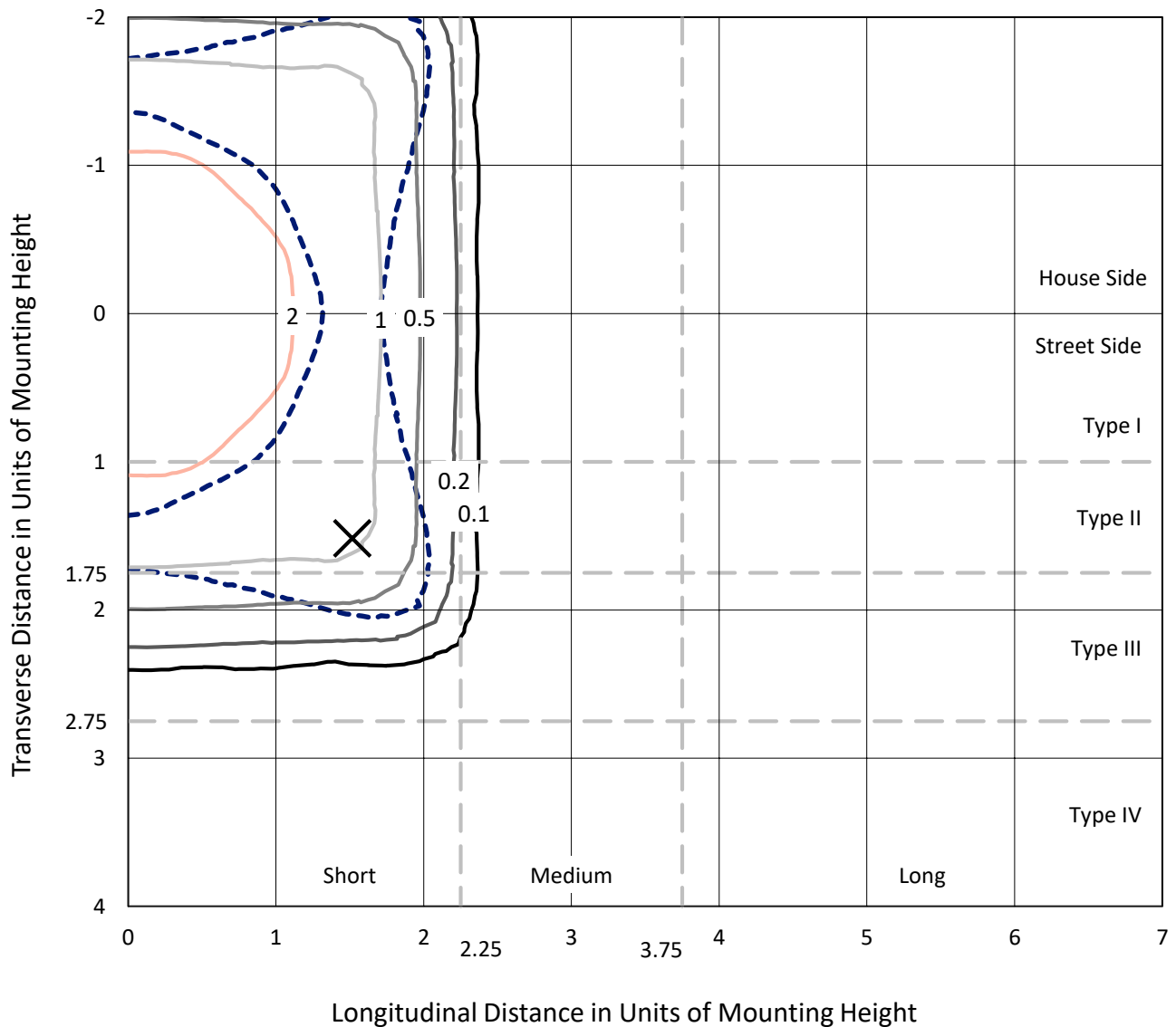
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

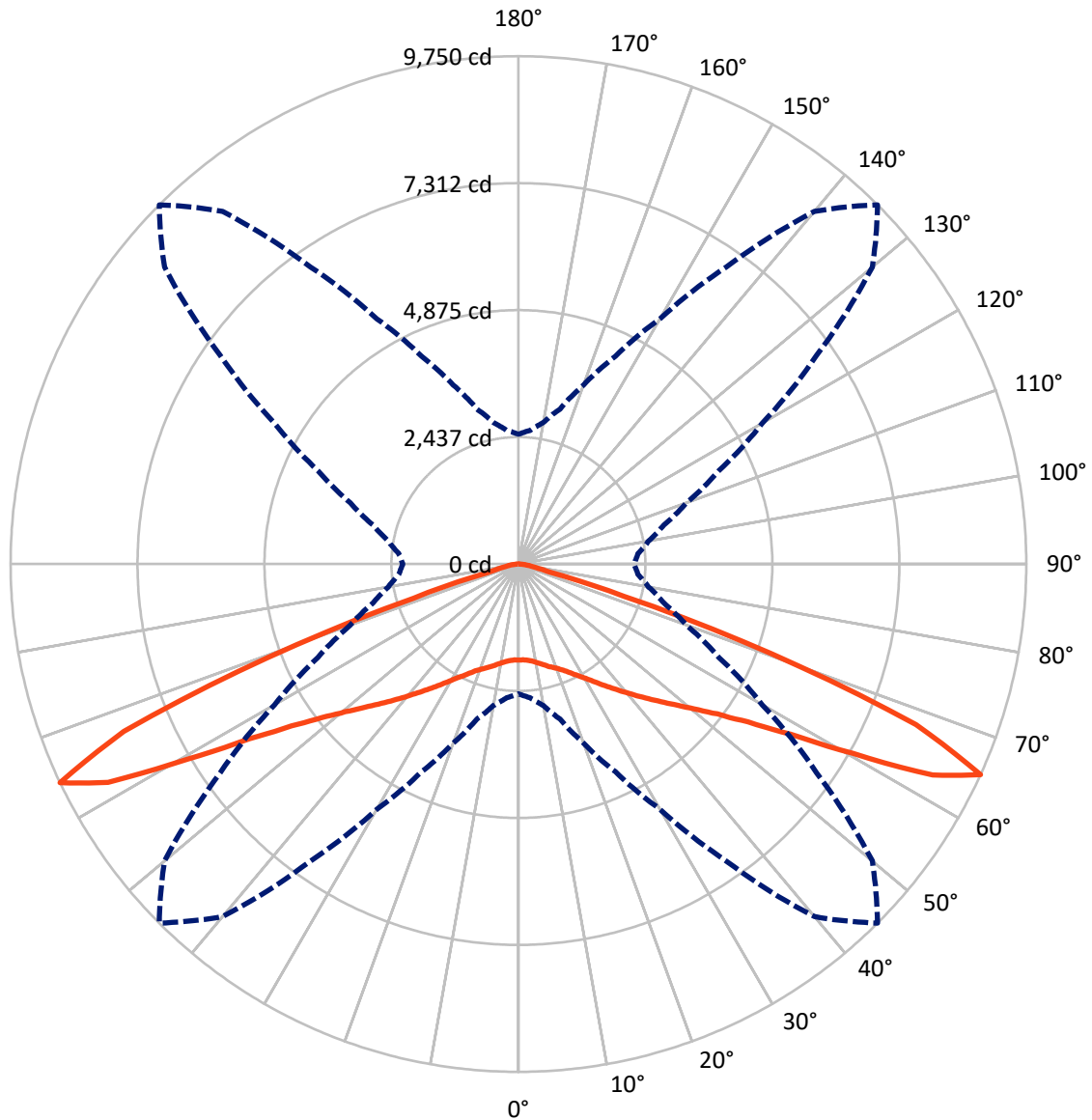
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8143.4 | 0.0 | 8143.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8143.4 | 0.0 | 8143.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 16286.7 | 0.0 | 16286.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 179.6 | 1.1 |
| 10°-20° | 576.1 | 3.5 |
| 20°-30° | 1077.1 | 6.6 |
| 30°-40° | 1821.7 | 11.2 |
| 40°-50° | 2978.7 | 18.3 |
| 50°-60° | 4736.7 | 29.1 |
| 60°-70° | 4281.6 | 26.3 |
| 70°-80° | 541.9 | 3.3 |
| 80°-90° | 93.2 | 0.6 |
| 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° | 16286.7 | 100.0 |
| 0°-180° | 16286.7 | 100.0 |



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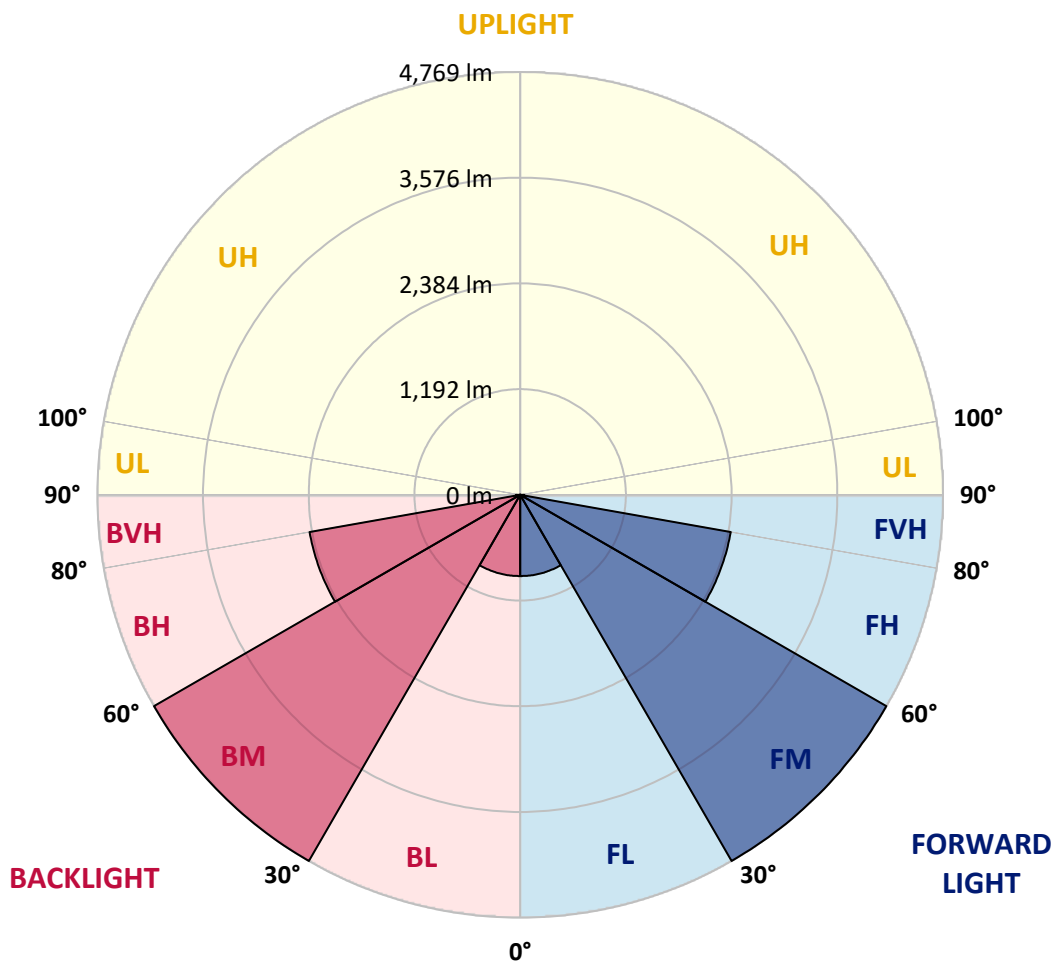
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 916.4 | 5.6 | | | |
| FM | (30°-60°) | 4768.6 | 29.3 | | | |
| FH | (60°-80°) | 2411.8 | 14.8 | | | G2/5000 |
| FVH | (80°-90°) | 46.6 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 916.4 | 5.6 | B2/1000 | | |
| BM | (30°-60°) | 4768.6 | 29.3 | B3/5000 | | |
| BH | (60°-80°) | 2411.8 | 14.8 | B3/2500 | | G2/5000 |
| BVH | (80°-90°) | 46.6 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1842.9 | 1842.9 | 1842.9 | 1842.9 | 1842.9 | 1842.9 | 1842.9 | 1842.9 | 1842.9 | 1842.9 | 1842.9 |
| 2.5° | 1844.4 | 1845.8 | 1847.5 | 1845.8 | 1847.5 | 1845.2 | 1843.6 | 1845.8 | 1843.6 | 1841.3 | 1842.9 |
| 5° | 1860.4 | 1861.2 | 1861.2 | 1858.9 | 1861.2 | 1859.6 | 1857.3 | 1860.4 | 1858.1 | 1855.8 | 1857.3 |
| 7.5° | 1887.1 | 1890.2 | 1887.9 | 1885.5 | 1887.1 | 1885.5 | 1884.0 | 1884.9 | 1884.0 | 1881.8 | 1882.5 |
| 10° | 1922.9 | 1925.2 | 1923.7 | 1922.9 | 1924.4 | 1923.7 | 1922.2 | 1921.5 | 1922.2 | 1919.9 | 1919.9 |
| 12.5° | 1966.4 | 1965.6 | 1965.0 | 1965.6 | 1967.9 | 1967.9 | 1967.2 | 1967.9 | 1969.4 | 1970.3 | 1968.7 |
| 15° | 2009.1 | 2010.6 | 2010.6 | 2010.6 | 2015.3 | 2019.0 | 2021.4 | 2022.9 | 2025.9 | 2026.7 | 2023.6 |
| 17.5° | 2062.5 | 2062.5 | 2061.8 | 2062.5 | 2067.1 | 2073.2 | 2075.5 | 2078.6 | 2081.6 | 2083.9 | 2080.0 |
| 20° | 2122.1 | 2123.6 | 2123.6 | 2125.1 | 2131.1 | 2138.1 | 2138.1 | 2139.6 | 2138.1 | 2139.6 | 2137.2 |
| 22.5° | 2194.5 | 2199.1 | 2199.1 | 2199.8 | 2205.9 | 2214.3 | 2212.0 | 2214.3 | 2210.5 | 2213.6 | 2210.5 |
| 25° | 2289.2 | 2296.0 | 2294.5 | 2294.5 | 2299.0 | 2304.3 | 2305.1 | 2309.6 | 2309.0 | 2312.7 | 2310.4 |
| 27.5° | 2395.9 | 2406.5 | 2409.7 | 2408.8 | 2411.9 | 2417.2 | 2418.7 | 2424.0 | 2421.0 | 2424.0 | 2422.5 |
| 30° | 2524.0 | 2528.5 | 2534.7 | 2537.0 | 2540.8 | 2546.2 | 2546.2 | 2546.9 | 2543.1 | 2547.7 | 2549.8 |
| 32.5° | 2656.7 | 2665.1 | 2671.2 | 2684.9 | 2691.9 | 2695.6 | 2694.8 | 2696.4 | 2692.6 | 2698.7 | 2703.3 |
| 35° | 2832.1 | 2838.3 | 2848.2 | 2858.9 | 2868.0 | 2867.2 | 2865.0 | 2865.8 | 2865.8 | 2871.1 | 2875.7 |
| 37.5° | 3043.5 | 3045.0 | 3057.9 | 3073.2 | 3077.8 | 3073.2 | 3059.4 | 3056.5 | 3049.6 | 3056.5 | 3064.1 |
| 40° | 3267.0 | 3272.3 | 3298.1 | 3308.1 | 3310.4 | 3302.0 | 3282.1 | 3270.8 | 3255.5 | 3263.9 | 3274.6 |
| 42.5° | 3501.1 | 3511.7 | 3535.4 | 3552.9 | 3560.6 | 3555.2 | 3527.9 | 3510.2 | 3490.5 | 3494.9 | 3505.6 |
| 45° | 3760.5 | 3773.4 | 3806.9 | 3823.7 | 3838.3 | 3829.8 | 3803.2 | 3776.5 | 3745.3 | 3747.5 | 3764.3 |
| 47.5° | 4050.3 | 4063.3 | 4106.7 | 4135.0 | 4142.7 | 4141.0 | 4111.4 | 4074.7 | 4032.0 | 4030.4 | 4045.0 |
| 50° | 4375.3 | 4388.2 | 4442.4 | 4485.9 | 4508.0 | 4505.7 | 4470.5 | 4418.8 | 4366.8 | 4367.6 | 4386.0 |
| 52.5° | 4692.6 | 4708.6 | 4765.0 | 4839.8 | 4883.2 | 4914.4 | 4893.2 | 4844.3 | 4781.0 | 4782.5 | 4799.4 |
| 55° | 4990.1 | 5016.8 | 5081.5 | 5183.0 | 5263.9 | 5351.7 | 5376.7 | 5375.3 | 5337.1 | 5347.8 | 5364.6 |
| 57.5° | 5134.3 | 5173.9 | 5273.8 | 5433.9 | 5598.7 | 5777.2 | 5928.3 | 6041.1 | 6089.3 | 6161.7 | 6144.9 |
| 60° | 4861.1 | 4924.4 | 5071.7 | 5307.4 | 5633.0 | 6005.3 | 6404.1 | 6794.1 | 7126.6 | 7377.5 | 7233.3 |
| 62.5° | 3980.1 | 4062.6 | 4241.0 | 4543.1 | 5035.8 | 5631.6 | 6395.0 | 7316.4 | 8320.3 | 8925.9 | 8493.5 |
| 65° | 2490.5 | 2575.9 | 2757.3 | 3080.8 | 3657.4 | 4398.1 | 5433.9 | 6961.1 | 8836.6 | 9749.8 | 8869.4 |
| 67.5° | 971.0 | 1017.5 | 1116.0 | 1322.7 | 1755.8 | 2415.0 | 3454.6 | 5187.6 | 7430.9 | 8231.0 | 7292.8 |
| 70° | 486.6 | 491.3 | 509.5 | 547.6 | 640.8 | 832.2 | 1266.3 | 2405.0 | 4261.6 | 5147.2 | 4108.3 |
| 72.5° | 351.6 | 352.3 | 361.6 | 378.4 | 408.1 | 450.8 | 533.1 | 736.2 | 1385.9 | 2118.3 | 1298.9 |
| 75° | 269.2 | 272.2 | 277.7 | 286.7 | 302.8 | 324.2 | 353.9 | 424.1 | 525.6 | 609.5 | 512.7 |
| 77.5° | 207.5 | 213.5 | 217.4 | 225.7 | 235.6 | 250.2 | 258.6 | 285.3 | 331.8 | 349.4 | 344.1 |
| 80° | 157.9 | 163.2 | 171.7 | 178.6 | 185.4 | 192.1 | 189.2 | 201.4 | 225.7 | 240.2 | 232.7 |
| 82.5° | 100.7 | 106.8 | 131.2 | 137.4 | 140.3 | 144.9 | 139.5 | 140.3 | 151.1 | 160.2 | 151.1 |
| 85° | 64.9 | 68.6 | 83.2 | 90.8 | 91.5 | 94.6 | 92.3 | 87.0 | 87.0 | 79.3 | 89.2 |
| 87.5° | 29.7 | 30.5 | 37.4 | 44.2 | 45.8 | 41.2 | 40.5 | 38.8 | 31.4 | 29.7 | 32.0 |
| 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° | 1842.9 | 1842.9 | 1842.9 | 1842.9 | 1842.9 | 1842.9 | 1842.9 | 1842.9 |
| 2.5° | 1842.1 | 1843.6 | 1844.4 | 1846.6 | 1847.5 | 1847.5 | 1848.3 | 1849.7 |
| 5° | 1856.5 | 1858.9 | 1859.6 | 1862.6 | 1863.4 | 1862.6 | 1864.3 | 1865.1 |
| 7.5° | 1882.5 | 1886.4 | 1887.9 | 1890.9 | 1888.5 | 1891.7 | 1892.4 | 1892.4 |
| 10° | 1920.7 | 1924.4 | 1925.2 | 1928.3 | 1926.8 | 1928.3 | 1928.3 | 1926.8 |
| 12.5° | 1971.1 | 1971.8 | 1969.4 | 1971.8 | 1968.7 | 1970.3 | 1967.9 | 1966.4 |
| 15° | 2026.7 | 2024.4 | 2019.0 | 2019.0 | 2014.4 | 2015.3 | 2014.4 | 2013.7 |
| 17.5° | 2080.8 | 2076.3 | 2072.4 | 2071.0 | 2067.1 | 2066.3 | 2064.0 | 2064.0 |
| 20° | 2140.3 | 2138.1 | 2135.7 | 2132.7 | 2129.0 | 2125.1 | 2124.3 | 2125.7 |
| 22.5° | 2212.0 | 2211.3 | 2211.3 | 2209.7 | 2204.4 | 2200.6 | 2198.3 | 2198.3 |
| 25° | 2308.1 | 2301.3 | 2301.3 | 2300.5 | 2298.3 | 2296.0 | 2291.3 | 2293.6 |
| 27.5° | 2416.4 | 2412.7 | 2415.7 | 2415.0 | 2412.7 | 2412.7 | 2409.7 | 2409.7 |
| 30° | 2549.8 | 2548.4 | 2553.1 | 2549.2 | 2541.6 | 2540.8 | 2537.7 | 2533.8 |
| 32.5° | 2704.0 | 2702.6 | 2709.4 | 2704.7 | 2692.6 | 2685.8 | 2679.6 | 2676.6 |
| 35° | 2875.7 | 2876.5 | 2884.7 | 2881.8 | 2868.0 | 2863.4 | 2852.7 | 2851.2 |
| 37.5° | 3063.3 | 3075.4 | 3090.0 | 3093.0 | 3081.5 | 3078.5 | 3067.2 | 3061.0 |
| 40° | 3283.8 | 3299.7 | 3321.8 | 3327.2 | 3314.9 | 3312.7 | 3296.7 | 3288.2 |
| 42.5° | 3518.7 | 3546.1 | 3573.5 | 3578.2 | 3565.9 | 3553.8 | 3538.5 | 3532.3 |
| 45° | 3781.1 | 3813.8 | 3849.6 | 3858.8 | 3840.6 | 3826.1 | 3806.2 | 3806.2 |
| 47.5° | 4075.5 | 4116.7 | 4157.0 | 4182.2 | 4165.5 | 4150.2 | 4126.5 | 4111.4 |
| 50° | 4423.3 | 4479.8 | 4532.4 | 4558.3 | 4531.6 | 4502.7 | 4461.4 | 4447.7 |
| 52.5° | 4859.7 | 4920.6 | 4966.4 | 4952.6 | 4911.5 | 4871.0 | 4826.1 | 4807.6 |
| 55° | 5416.4 | 5437.0 | 5437.0 | 5385.2 | 5302.8 | 5235.0 | 5163.9 | 5140.3 |
| 57.5° | 6112.8 | 6033.5 | 5911.4 | 5756.6 | 5562.1 | 5392.7 | 5278.4 | 5224.3 |
| 60° | 6931.3 | 6549.9 | 6119.0 | 5695.7 | 5347.8 | 5061.1 | 4890.9 | 4813.1 |
| 62.5° | 7476.7 | 6478.9 | 5615.6 | 4935.8 | 4435.6 | 4090.0 | 3855.0 | 3763.4 |
| 65° | 6987.7 | 5403.5 | 4247.0 | 3434.0 | 2888.6 | 2537.0 | 2304.3 | 2219.0 |
| 67.5° | 5118.2 | 3385.9 | 2261.7 | 1620.9 | 1187.6 | 947.4 | 852.0 | 812.3 |
| 70° | 2297.4 | 1192.2 | 730.7 | 570.6 | 492.0 | 451.6 | 434.1 | 428.0 |
| 72.5° | 692.7 | 501.2 | 422.6 | 381.4 | 350.1 | 330.2 | 315.8 | 314.2 |
| 75° | 418.0 | 347.9 | 308.9 | 284.6 | 264.7 | 248.7 | 241.0 | 238.8 |
| 77.5° | 292.2 | 255.5 | 237.2 | 219.6 | 204.5 | 192.1 | 185.4 | 180.0 |
| 80° | 205.3 | 187.7 | 179.2 | 169.3 | 159.4 | 148.0 | 138.1 | 133.5 |
| 82.5° | 137.4 | 133.5 | 133.5 | 127.4 | 118.9 | 108.3 | 88.6 | 83.9 |
| 85° | 88.6 | 87.8 | 89.2 | 87.0 | 80.8 | 69.3 | 57.2 | 54.2 |
| 87.5° | 41.2 | 42.0 | 46.5 | 45.8 | 44.2 | 36.7 | 28.9 | 27.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)