

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: McGRAW-EDISON

Report Number: P270033

Luminaire Tested: **GPC-AF-02-LED-E1-SL3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270033
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-02-LED-E1-SL3-7027
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10794.3 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

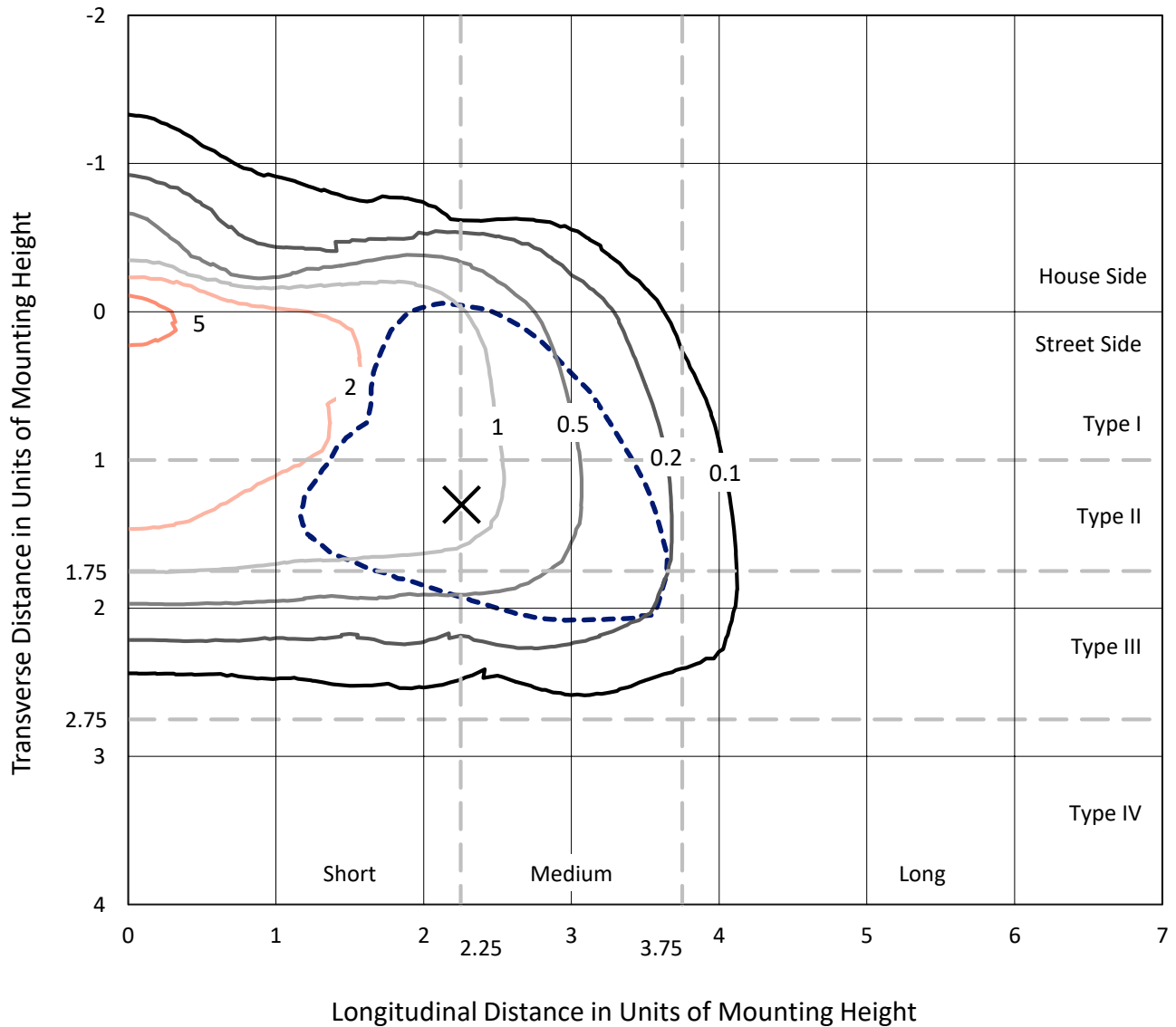
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

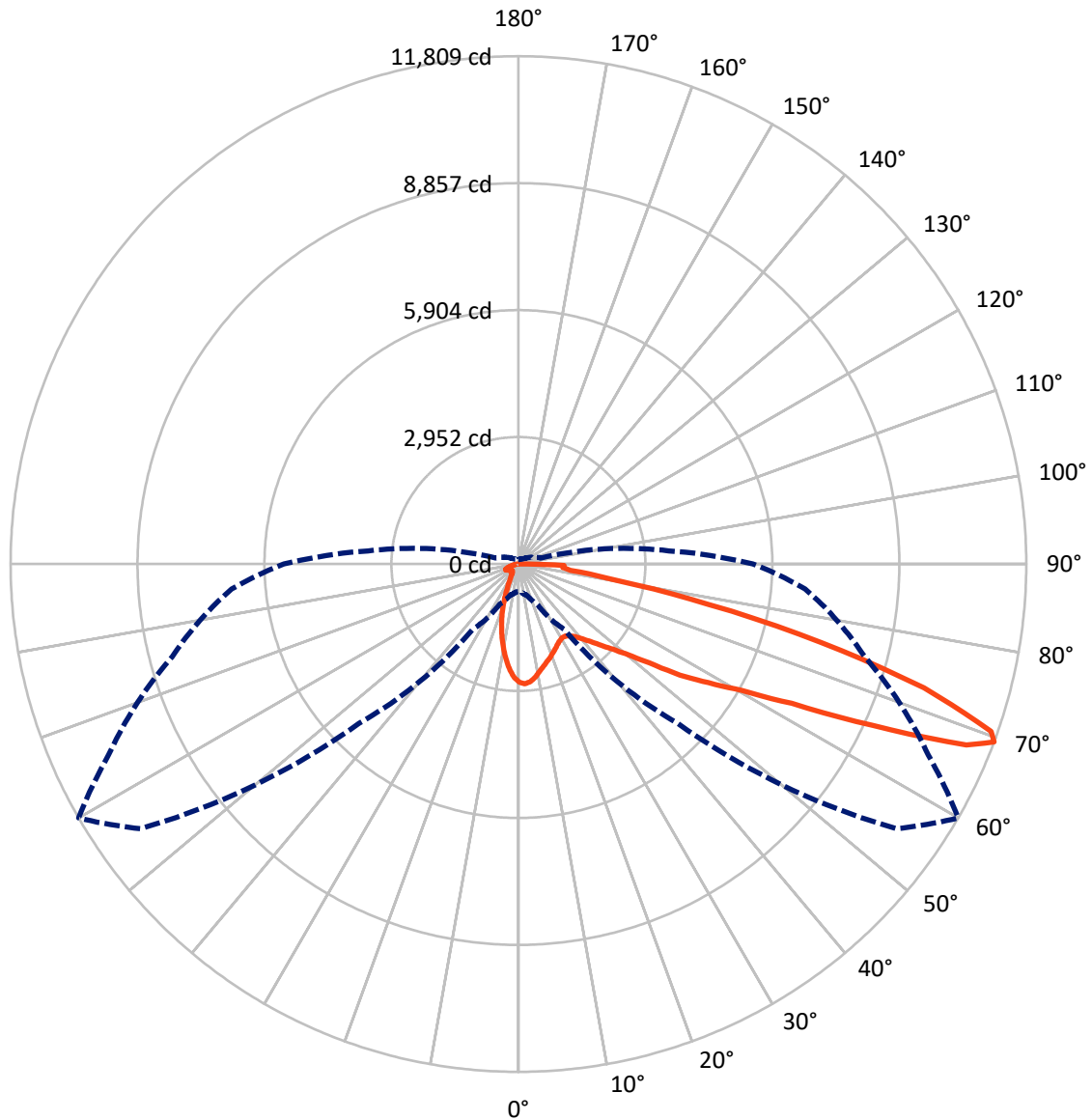
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1535.7 | 0.0 | 1535.7 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 9258.6 | 0.0 | 9258.6 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 10794.3 | 0.0 | 10794.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 232.6 | 2.2 |
| 10°-20° | 495.5 | 4.6 |
| 20°-30° | 631.4 | 5.8 |
| 30°-40° | 868.0 | 8.0 |
| 40°-50° | 1408.4 | 13.0 |
| 50°-60° | 2258.6 | 20.9 |
| 60°-70° | 3006.1 | 27.8 |
| 70°-80° | 1623.0 | 15.0 |
| 80°-90° | 270.8 | 2.5 |
| 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° | 10794.3 | 100.0 |
| 0°-180° | 10794.3 | 100.0 |

Coefficient of Utilization



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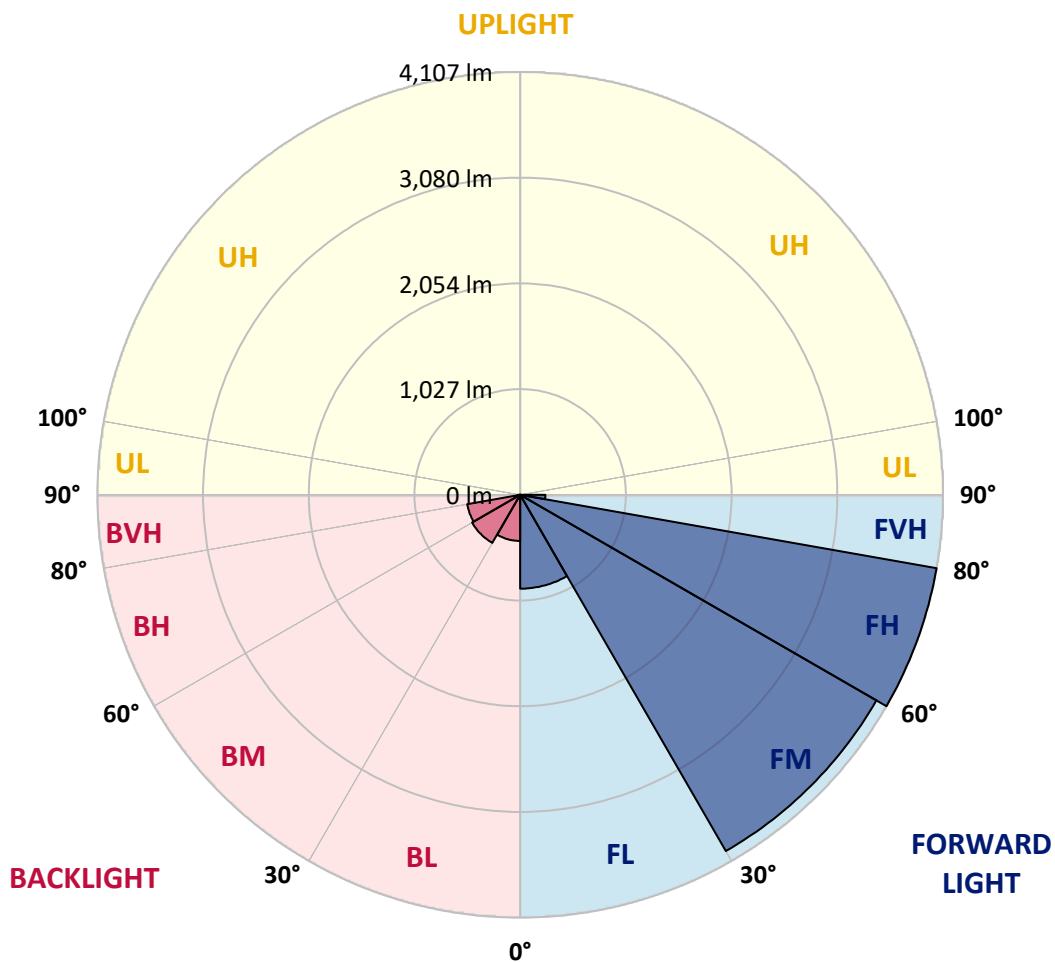
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 911.4 | 8.4 | | | |
| FM | (30°-60°) | 3995.4 | 37.0 | | | |
| FH | (60°-80°) | 4107.0 | 38.0 | | | G2/5000 |
| FVH | (80°-90°) | 244.7 | 2.3 | | | G3/500 |
| BL | (0°-30°) | 448.0 | 4.2 | B1/500 | | |
| BM | (30°-60°) | 539.5 | 5.0 | B1/1000 | | |
| BH | (60°-80°) | 522.1 | 4.8 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 26.1 | 0.2 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|
| 0° | 2750.6 | 2750.6 | 2750.6 | 2750.6 | 2750.6 | 2750.6 | 2750.6 | 2750.6 | 2750.6 | 2750.6 | 2750.6 |
| 2.5° | 2806.8 | 2813.1 | 2810.5 | 2809.0 | 2813.6 | 2806.3 | 2791.3 | 2786.5 | 2779.3 | 2762.0 | 2732.9 |
| 5° | 2701.6 | 2720.2 | 2719.3 | 2733.4 | 2756.8 | 2763.0 | 2756.3 | 2757.3 | 2743.9 | 2722.5 | 2674.0 |
| 7.5° | 2519.6 | 2527.4 | 2531.6 | 2562.3 | 2605.1 | 2639.5 | 2668.7 | 2678.0 | 2671.7 | 2653.6 | 2591.0 |
| 10° | 2331.8 | 2338.1 | 2348.0 | 2384.0 | 2438.2 | 2485.7 | 2540.9 | 2572.7 | 2586.3 | 2583.2 | 2513.3 |
| 12.5° | 2170.8 | 2177.0 | 2190.0 | 2230.8 | 2295.3 | 2353.7 | 2434.0 | 2473.8 | 2506.0 | 2525.2 | 2450.1 |
| 15° | 2026.2 | 2039.8 | 2052.4 | 2099.2 | 2171.7 | 2248.4 | 2339.1 | 2389.2 | 2439.3 | 2482.6 | 2394.4 |
| 17.5° | 1913.7 | 1927.3 | 1934.5 | 1977.3 | 2054.5 | 2148.2 | 2254.7 | 2313.7 | 2376.1 | 2447.2 | 2339.1 |
| 20° | 1848.5 | 1854.7 | 1851.5 | 1875.7 | 1944.9 | 2044.5 | 2170.8 | 2239.0 | 2314.7 | 2413.7 | 2283.9 |
| 22.5° | 1830.2 | 1830.7 | 1819.2 | 1816.7 | 1861.5 | 1945.5 | 2081.1 | 2163.9 | 2256.7 | 2391.7 | 2236.4 |
| 25° | 1874.6 | 1873.0 | 1841.7 | 1816.2 | 1820.9 | 1869.8 | 1994.4 | 2091.0 | 2208.3 | 2387.2 | 2199.9 |
| 27.5° | 1973.0 | 1977.8 | 1931.4 | 1883.4 | 1836.0 | 1834.3 | 1928.8 | 2030.4 | 2168.7 | 2408.4 | 2184.3 |
| 30° | 2111.2 | 2119.1 | 2069.5 | 2008.6 | 1919.4 | 1845.8 | 1903.1 | 1994.4 | 2144.2 | 2452.8 | 2181.7 |
| 32.5° | 2262.6 | 2270.8 | 2233.2 | 2169.1 | 2052.4 | 1916.9 | 1920.9 | 1997.7 | 2143.0 | 2514.8 | 2199.4 |
| 35° | 2423.6 | 2433.0 | 2413.7 | 2359.5 | 2229.7 | 2047.6 | 1988.8 | 2048.1 | 2177.0 | 2609.8 | 2246.8 |
| 37.5° | 2603.5 | 2618.1 | 2623.3 | 2571.7 | 2433.0 | 2220.3 | 2099.8 | 2144.2 | 2253.7 | 2741.6 | 2333.9 |
| 40° | 2862.7 | 2883.0 | 2881.5 | 2807.5 | 2666.1 | 2453.4 | 2271.4 | 2282.9 | 2373.1 | 2918.0 | 2473.2 |
| 42.5° | 3359.1 | 3363.3 | 3233.4 | 3072.4 | 2922.6 | 2698.4 | 2473.8 | 2464.3 | 2537.8 | 3141.2 | 2678.0 |
| 45° | 3990.5 | 3973.4 | 3684.5 | 3373.1 | 3190.7 | 2979.9 | 2737.0 | 2691.1 | 2746.8 | 3413.3 | 2934.7 |
| 47.5° | 4514.5 | 4474.9 | 4109.9 | 3680.3 | 3474.4 | 3286.1 | 3046.2 | 2965.9 | 2996.7 | 3721.9 | 3266.2 |
| 50° | 4696.6 | 4666.9 | 4364.3 | 3935.7 | 3742.9 | 3659.4 | 3426.9 | 3313.2 | 3321.6 | 4090.2 | 3654.8 |
| 52.5° | 4657.4 | 4653.3 | 4451.6 | 4104.1 | 3994.1 | 4051.5 | 3966.0 | 3812.1 | 3730.8 | 4498.9 | 4074.0 |
| 55° | 4565.1 | 4574.0 | 4501.0 | 4300.2 | 4281.5 | 4430.1 | 4670.5 | 4556.8 | 4303.9 | 4911.4 | 4507.2 |
| 57.5° | 4244.5 | 4267.4 | 4428.0 | 4547.0 | 4743.9 | 4965.1 | 5237.7 | 5205.5 | 4920.7 | 5357.2 | 5022.5 |
| 60° | 3419.6 | 3472.8 | 3903.4 | 4498.9 | 5220.1 | 5911.4 | 6033.5 | 5958.4 | 5556.9 | 5910.5 | 5702.9 |
| 62.5° | 2396.0 | 2451.3 | 2963.2 | 3895.1 | 5141.9 | 6980.4 | 7456.0 | 7132.2 | 6470.4 | 6725.4 | 6583.6 |
| 65° | 1282.7 | 1309.3 | 1700.4 | 2702.6 | 4340.9 | 7201.1 | 9534.9 | 9042.2 | 7916.9 | 7730.3 | 7337.0 |
| 67.5° | 707.5 | 722.1 | 871.9 | 1364.5 | 2780.3 | 6341.1 | 10859.4 | 11231.7 | 9724.7 | 8399.2 | 7199.9 |
| 69° | 639.9 | 653.3 | 751.4 | 1033.5 | 1860.5 | 5243.0 | 10730.1 | 11808.8 | 10517.3 | 8333.0 | 6693.1 |
| 70° | 625.7 | 638.2 | 726.4 | 952.7 | 1505.9 | 4321.7 | 10296.7 | 11661.3 | 10706.1 | 8095.7 | 6250.9 |
| 72.5° | 563.1 | 576.7 | 662.2 | 855.6 | 1286.9 | 2154.6 | 8156.3 | 9859.7 | 9720.0 | 7019.5 | 4741.4 |
| 75° | 525.1 | 537.5 | 682.5 | 837.9 | 1232.1 | 1363.5 | 5377.1 | 7266.7 | 7145.2 | 4910.3 | 2556.5 |
| 77.5° | 224.8 | 223.7 | 316.6 | 709.1 | 1250.4 | 1320.2 | 2889.3 | 4539.7 | 4141.7 | 2098.8 | 734.2 |
| 80° | 150.1 | 147.5 | 150.1 | 208.5 | 1146.6 | 1327.5 | 1513.7 | 2304.2 | 1740.6 | 535.0 | 361.8 |
| 82.5° | 129.4 | 127.2 | 132.0 | 127.2 | 403.1 | 1515.4 | 1286.9 | 1225.4 | 827.5 | 303.9 | 179.4 |
| 85° | 87.0 | 83.5 | 113.6 | 114.2 | 190.4 | 1346.3 | 1449.5 | 1035.0 | 669.5 | 180.4 | 88.7 |
| 87.5° | 41.7 | 40.7 | 66.3 | 80.8 | 111.6 | 547.0 | 1626.3 | 1060.5 | 675.3 | 92.3 | 42.2 |
| 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° | 2750.6 | 2750.6 | 2750.6 | 2750.6 | 2750.6 | 2750.6 | 2750.6 | 2750.6 | 2750.6 | 2750.6 | 2750.6 |
| 2.5° | 2724.0 | 2702.6 | 2681.7 | 2656.6 | 2630.6 | 2601.4 | 2586.8 | 2572.2 | 2568.6 | 2564.4 | 2549.7 |
| 5° | 2648.9 | 2618.6 | 2566.5 | 2509.1 | 2448.7 | 2389.8 | 2344.8 | 2316.6 | 2295.3 | 2284.4 | 2265.0 |
| 7.5° | 2551.8 | 2507.6 | 2416.4 | 2317.3 | 2215.6 | 2122.8 | 2042.4 | 1991.9 | 1943.9 | 1921.5 | 1896.0 |
| 10° | 2459.6 | 2393.4 | 2251.5 | 2105.5 | 1959.6 | 1819.2 | 1687.3 | 1594.0 | 1511.0 | 1464.6 | 1431.9 |
| 12.5° | 2380.4 | 2289.6 | 2093.1 | 1895.5 | 1695.2 | 1495.5 | 1297.8 | 1142.5 | 1012.6 | 944.3 | 909.4 |
| 15° | 2303.2 | 2193.8 | 1942.3 | 1691.5 | 1434.5 | 1162.8 | 903.2 | 726.9 | 619.6 | 576.7 | 562.1 |
| 17.5° | 2233.2 | 2093.1 | 1791.1 | 1486.1 | 1165.5 | 837.0 | 607.0 | 510.0 | 468.7 | 454.7 | 450.1 |
| 20° | 2157.6 | 1991.4 | 1634.1 | 1271.2 | 884.9 | 585.1 | 473.9 | 431.2 | 414.6 | 410.3 | 408.3 |
| 22.5° | 2084.6 | 1891.2 | 1484.0 | 1041.2 | 635.6 | 451.6 | 407.2 | 389.5 | 386.9 | 390.6 | 390.6 |
| 25° | 2022.7 | 1801.6 | 1321.9 | 800.8 | 466.7 | 380.2 | 364.5 | 360.3 | 370.2 | 383.8 | 386.5 |
| 27.5° | 1976.2 | 1728.0 | 1149.2 | 591.4 | 371.8 | 330.5 | 330.0 | 336.9 | 361.4 | 387.3 | 392.6 |
| 30° | 1944.4 | 1658.1 | 964.7 | 426.5 | 311.8 | 291.0 | 299.2 | 313.9 | 349.9 | 386.9 | 396.8 |
| 32.5° | 1928.2 | 1606.4 | 772.3 | 330.0 | 266.9 | 255.5 | 269.6 | 287.3 | 322.9 | 357.2 | 370.2 |
| 35° | 1940.8 | 1568.5 | 590.7 | 275.3 | 235.6 | 226.8 | 241.5 | 258.6 | 279.6 | 294.0 | 303.9 |
| 37.5° | 1987.7 | 1553.3 | 445.7 | 246.7 | 214.3 | 206.0 | 217.4 | 227.4 | 235.6 | 239.8 | 244.6 |
| 40° | 2088.9 | 1569.5 | 357.2 | 232.0 | 202.3 | 191.9 | 196.5 | 200.2 | 205.4 | 209.7 | 211.7 |
| 42.5° | 2237.9 | 1617.9 | 320.2 | 226.4 | 196.1 | 181.0 | 179.9 | 181.5 | 188.3 | 196.1 | 197.6 |
| 45° | 2446.5 | 1703.5 | 317.6 | 230.0 | 193.0 | 172.0 | 167.4 | 169.5 | 179.9 | 191.9 | 193.9 |
| 47.5° | 2713.1 | 1833.9 | 338.4 | 240.8 | 195.6 | 167.4 | 159.5 | 162.1 | 175.2 | 191.3 | 193.9 |
| 50° | 3035.8 | 2015.8 | 373.3 | 257.1 | 207.0 | 168.4 | 156.9 | 158.6 | 172.0 | 189.8 | 192.3 |
| 52.5° | 3417.0 | 2274.0 | 411.5 | 272.7 | 218.9 | 175.2 | 159.0 | 155.3 | 168.0 | 183.6 | 186.7 |
| 55° | 3840.9 | 2605.1 | 450.5 | 286.7 | 225.2 | 183.6 | 163.2 | 151.3 | 160.1 | 173.2 | 175.7 |
| 57.5° | 4361.4 | 3068.2 | 518.3 | 300.4 | 229.4 | 189.4 | 167.4 | 147.1 | 150.1 | 159.5 | 161.7 |
| 60° | 5065.7 | 3723.0 | 637.6 | 322.9 | 238.8 | 191.3 | 166.8 | 143.4 | 140.2 | 145.4 | 146.6 |
| 62.5° | 5909.9 | 4434.3 | 737.2 | 350.9 | 254.5 | 193.0 | 163.8 | 140.8 | 132.0 | 132.0 | 132.9 |
| 65° | 6411.1 | 4624.6 | 682.1 | 374.5 | 267.4 | 191.3 | 160.1 | 138.2 | 125.7 | 120.0 | 120.5 |
| 67.5° | 5986.0 | 4067.2 | 584.5 | 379.1 | 266.9 | 184.1 | 154.4 | 133.5 | 119.5 | 110.5 | 110.0 |
| 69° | 5453.7 | 3509.3 | 540.7 | 366.6 | 254.5 | 174.7 | 147.1 | 128.3 | 114.8 | 105.3 | 104.8 |
| 70° | 5024.5 | 3168.7 | 512.0 | 353.0 | 240.8 | 168.0 | 141.4 | 123.5 | 111.1 | 102.1 | 101.1 |
| 72.5° | 3653.1 | 2076.3 | 437.5 | 303.4 | 198.6 | 140.8 | 122.0 | 108.4 | 99.1 | 93.9 | 92.9 |
| 75° | 1825.5 | 990.2 | 355.1 | 246.1 | 152.3 | 112.6 | 100.2 | 90.6 | 86.1 | 85.0 | 84.5 |
| 77.5° | 599.7 | 453.6 | 254.0 | 183.6 | 113.1 | 88.2 | 80.8 | 74.0 | 73.0 | 76.1 | 75.1 |
| 80° | 329.6 | 263.8 | 161.2 | 121.5 | 77.2 | 64.7 | 63.6 | 59.9 | 61.5 | 66.7 | 65.7 |
| 82.5° | 168.0 | 137.1 | 99.6 | 73.0 | 52.1 | 46.4 | 50.6 | 48.5 | 50.6 | 55.2 | 54.7 |
| 85° | 83.0 | 75.1 | 63.2 | 44.3 | 34.5 | 29.7 | 36.0 | 37.5 | 38.5 | 42.2 | 42.2 |
| 87.5° | 48.0 | 44.3 | 33.3 | 20.9 | 17.2 | 15.6 | 20.9 | 20.3 | 24.0 | 26.1 | 25.5 |
| 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)