

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: P200296

Luminaire Tested: **GPC-AF-02-LED-E1-SL3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200296
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-SL3-7050
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 5000K, 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: 12424 lumens
Efficiency: N/A
Efficacy: 109.9 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

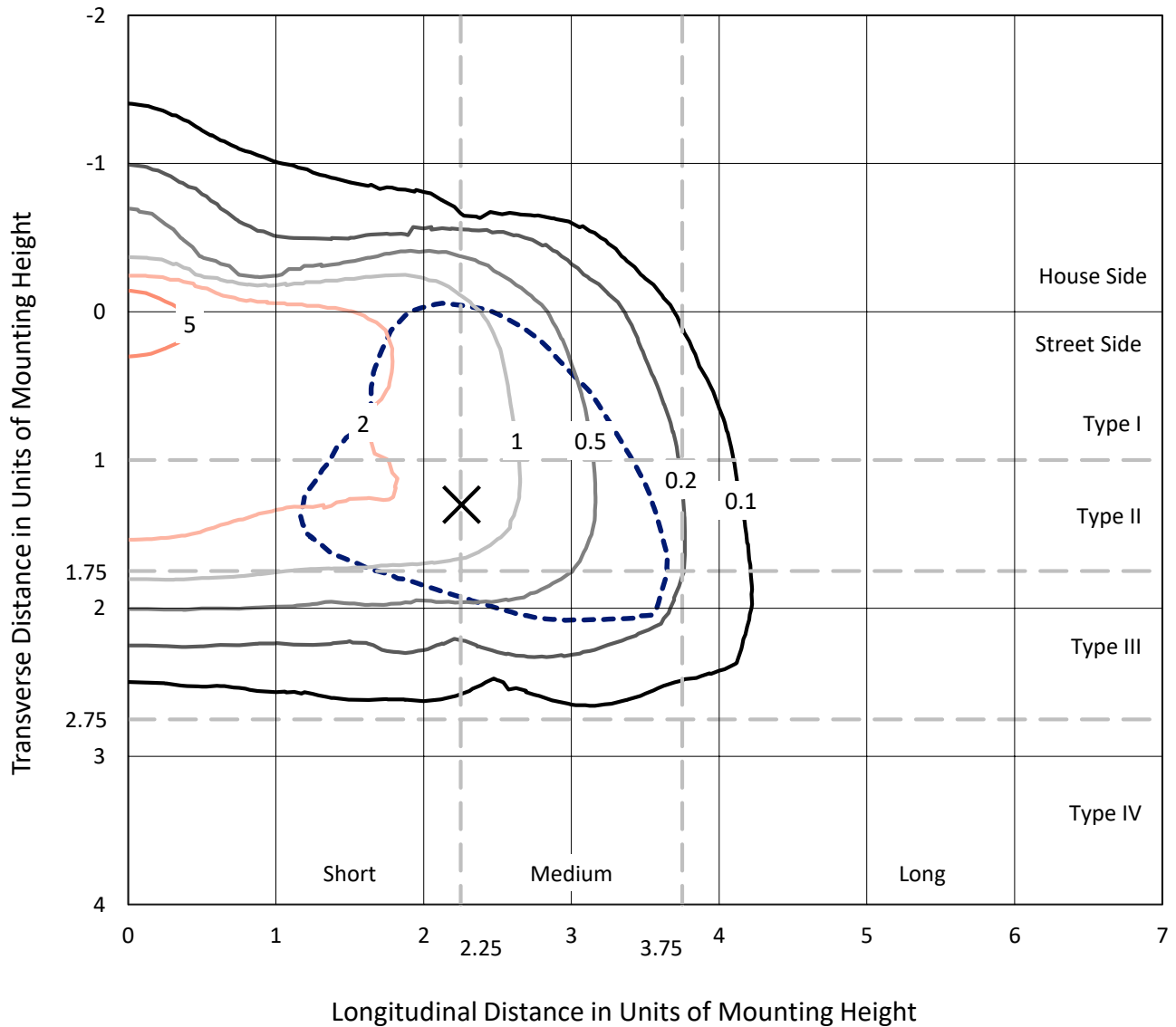
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

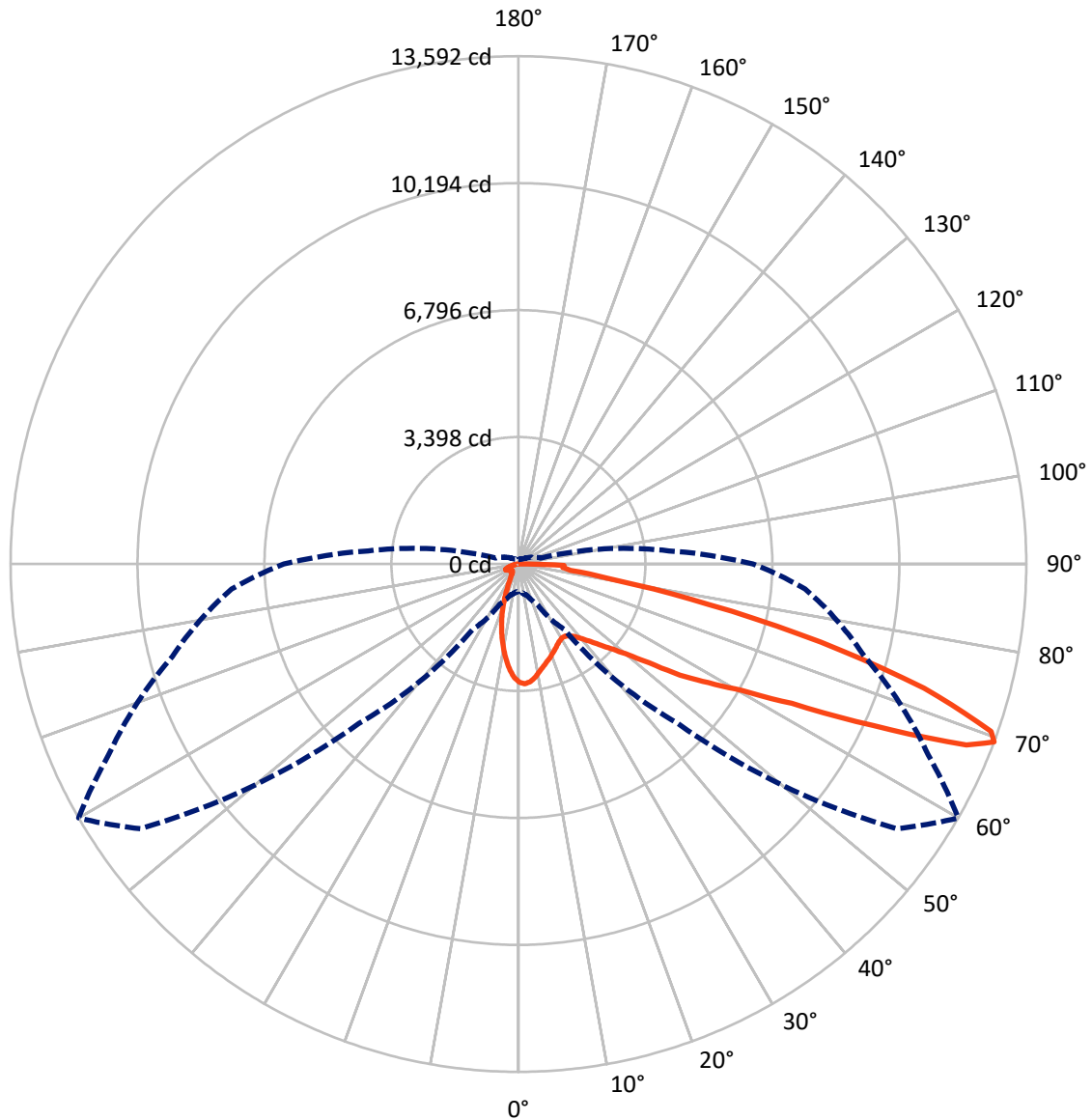
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.9 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 | 1767.5 | 0.0 | 1767.5 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 10656.5 | 0.0 | 10656.5 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 12424.0 | 0.0 | 12424.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 267.7 | 2.2 |
| 10°-20° | 570.3 | 4.6 |
| 20°-30° | 726.7 | 5.8 |
| 30°-40° | 999.0 | 8.0 |
| 40°-50° | 1621.0 | 13.0 |
| 50°-60° | 2599.6 | 20.9 |
| 60°-70° | 3459.9 | 27.8 |
| 70°-80° | 1868.1 | 15.0 |
| 80°-90° | 311.7 | 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° | 12424.0 | 100.0 |
| 0°-180° | 12424.0 | 100.0 |



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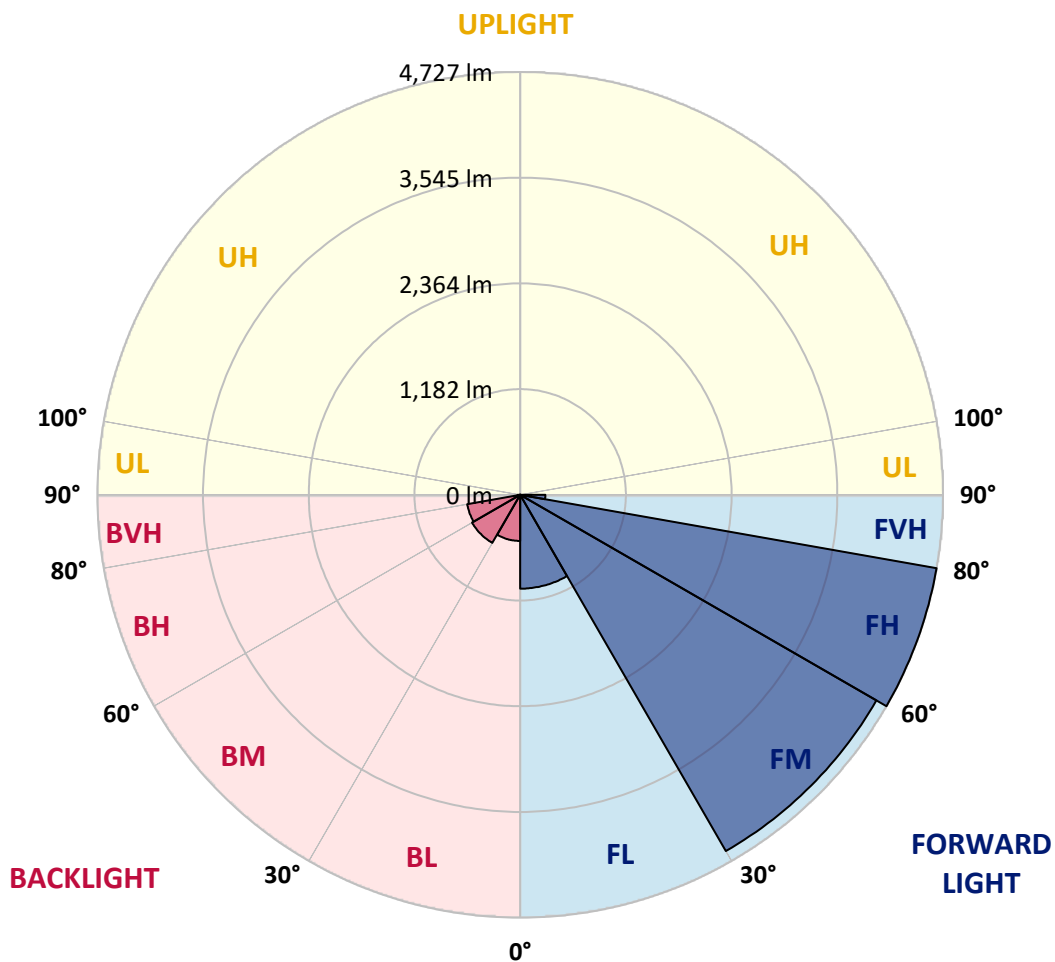
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1049.0 | 8.4 | | | |
| FM | (30°-60°) | 4598.6 | 37.0 | | | |
| FH | (60°-80°) | 4727.1 | 38.0 | | | G2/5000 |
| FVH | (80°-90°) | 281.7 | 2.3 | | | G3/500 |
| BL | (0°-30°) | 515.6 | 4.2 | B2/1000 | | |
| BM | (30°-60°) | 621.0 | 5.0 | B1/1000 | | |
| BH | (60°-80°) | 600.9 | 4.8 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 30.0 | 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° | 3165.8 | 3165.8 | 3165.8 | 3165.8 | 3165.8 | 3165.8 | 3165.8 | 3165.8 | 3165.8 | 3165.8 | 3165.8 |
| 2.5° | 3230.6 | 3237.8 | 3234.8 | 3233.0 | 3238.4 | 3230.0 | 3212.6 | 3207.2 | 3198.8 | 3179.0 | 3145.4 |
| 5° | 3109.4 | 3131.0 | 3129.8 | 3146.0 | 3173.0 | 3180.2 | 3172.4 | 3173.6 | 3158.0 | 3133.4 | 3077.6 |
| 7.5° | 2900.0 | 2909.0 | 2913.8 | 2949.2 | 2998.4 | 3038.0 | 3071.6 | 3082.4 | 3075.2 | 3054.2 | 2982.2 |
| 10° | 2683.9 | 2691.1 | 2702.5 | 2743.9 | 2806.3 | 2860.9 | 2924.6 | 2961.2 | 2976.8 | 2973.2 | 2892.8 |
| 12.5° | 2498.5 | 2505.7 | 2520.7 | 2567.5 | 2641.9 | 2709.1 | 2801.5 | 2847.1 | 2884.4 | 2906.6 | 2820.1 |
| 15° | 2332.2 | 2347.8 | 2362.2 | 2416.2 | 2499.7 | 2587.9 | 2692.3 | 2749.9 | 2807.5 | 2857.3 | 2755.9 |
| 17.5° | 2202.6 | 2218.2 | 2226.6 | 2275.8 | 2364.6 | 2472.6 | 2595.1 | 2662.9 | 2734.9 | 2816.5 | 2692.3 |
| 20° | 2127.6 | 2134.8 | 2131.2 | 2158.8 | 2238.6 | 2353.2 | 2498.5 | 2577.1 | 2664.1 | 2778.1 | 2628.7 |
| 22.5° | 2106.5 | 2107.1 | 2093.9 | 2090.9 | 2142.6 | 2239.2 | 2395.2 | 2490.6 | 2597.5 | 2752.9 | 2574.1 |
| 25° | 2157.6 | 2155.8 | 2119.8 | 2090.3 | 2095.7 | 2152.2 | 2295.6 | 2406.6 | 2541.7 | 2747.5 | 2532.1 |
| 27.5° | 2271.0 | 2276.4 | 2223.0 | 2167.8 | 2113.1 | 2111.3 | 2220.0 | 2337.0 | 2496.0 | 2772.1 | 2514.1 |
| 30° | 2430.0 | 2439.0 | 2382.0 | 2311.8 | 2209.2 | 2124.6 | 2190.6 | 2295.6 | 2467.8 | 2823.1 | 2511.1 |
| 32.5° | 2604.1 | 2613.7 | 2570.5 | 2496.6 | 2362.2 | 2206.2 | 2211.0 | 2299.2 | 2466.6 | 2894.6 | 2531.5 |
| 35° | 2789.5 | 2800.3 | 2778.1 | 2715.7 | 2566.3 | 2356.8 | 2289.0 | 2357.4 | 2505.7 | 3003.8 | 2586.1 |
| 37.5° | 2996.6 | 3013.4 | 3019.4 | 2960.0 | 2800.3 | 2555.5 | 2416.8 | 2467.8 | 2593.9 | 3155.6 | 2686.3 |
| 40° | 3294.9 | 3318.3 | 3316.5 | 3231.2 | 3068.6 | 2823.7 | 2614.3 | 2627.5 | 2731.3 | 3358.5 | 2846.5 |
| 42.5° | 3866.2 | 3871.0 | 3721.6 | 3536.1 | 3363.9 | 3105.8 | 2847.1 | 2836.3 | 2921.0 | 3615.3 | 3082.4 |
| 45° | 4593.0 | 4573.2 | 4240.7 | 3882.4 | 3672.4 | 3429.9 | 3150.2 | 3097.4 | 3161.6 | 3928.6 | 3377.7 |
| 47.5° | 5196.2 | 5150.5 | 4730.4 | 4235.9 | 3998.8 | 3782.2 | 3506.1 | 3413.7 | 3449.1 | 4283.9 | 3759.4 |
| 50° | 5405.6 | 5371.4 | 5023.3 | 4530.0 | 4307.9 | 4211.9 | 3944.2 | 3813.4 | 3823.0 | 4707.6 | 4206.5 |
| 52.5° | 5360.6 | 5355.8 | 5123.5 | 4723.8 | 4597.2 | 4663.2 | 4564.8 | 4387.7 | 4294.1 | 5178.1 | 4689.0 |
| 55° | 5254.4 | 5264.6 | 5180.5 | 4949.5 | 4927.9 | 5098.9 | 5375.6 | 5244.8 | 4953.7 | 5652.9 | 5187.8 |
| 57.5° | 4885.3 | 4911.7 | 5096.5 | 5233.4 | 5460.2 | 5714.7 | 6028.6 | 5991.4 | 5663.7 | 6166.0 | 5780.7 |
| 60° | 3935.8 | 3997.0 | 4492.8 | 5178.1 | 6008.2 | 6804.0 | 6944.4 | 6858.0 | 6395.9 | 6802.8 | 6563.9 |
| 62.5° | 2757.7 | 2821.3 | 3410.7 | 4483.2 | 5918.1 | 8034.3 | 8581.6 | 8208.9 | 7447.3 | 7740.8 | 7577.6 |
| 65° | 1476.4 | 1507.0 | 1957.1 | 3110.6 | 4996.3 | 8288.2 | 10974.5 | 10407.3 | 9112.2 | 8897.3 | 8444.8 |
| 67.5° | 814.4 | 831.2 | 1003.5 | 1570.6 | 3200.0 | 7298.5 | 12498.9 | 12927.4 | 11192.9 | 9667.3 | 8287.0 |
| 69° | 736.4 | 752.0 | 864.8 | 1189.5 | 2141.4 | 6034.6 | 12350.0 | 13591.7 | 12105.2 | 9591.1 | 7703.6 |
| 70° | 720.2 | 734.6 | 836.0 | 1096.5 | 1733.3 | 4974.1 | 11851.3 | 13421.9 | 12322.4 | 9318.0 | 7194.7 |
| 72.5° | 648.2 | 663.8 | 762.2 | 984.9 | 1481.2 | 2479.8 | 9387.6 | 11348.4 | 11187.5 | 8079.3 | 5457.2 |
| 75° | 604.4 | 618.8 | 785.6 | 964.5 | 1418.2 | 1569.4 | 6188.8 | 8363.8 | 8223.9 | 5651.7 | 2942.6 |
| 77.5° | 258.7 | 257.5 | 364.3 | 816.2 | 1439.2 | 1519.6 | 3325.5 | 5225.0 | 4767.0 | 2415.6 | 845.0 |
| 80° | 172.8 | 169.8 | 172.8 | 240.1 | 1319.7 | 1528.0 | 1742.3 | 2652.1 | 2003.3 | 615.8 | 416.5 |
| 82.5° | 148.8 | 146.4 | 151.8 | 146.4 | 463.9 | 1744.1 | 1481.2 | 1410.4 | 952.4 | 349.9 | 206.5 |
| 85° | 100.2 | 96.0 | 130.8 | 131.4 | 219.1 | 1549.6 | 1668.4 | 1191.3 | 770.6 | 207.7 | 102.0 |
| 87.5° | 48.0 | 46.8 | 76.2 | 93.0 | 128.4 | 629.6 | 1871.9 | 1220.7 | 777.2 | 106.2 | 48.6 |
| 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° | 3165.8 | 3165.8 | 3165.8 | 3165.8 | 3165.8 | 3165.8 | 3165.8 | 3165.8 | 3165.8 | 3165.8 | 3165.8 |
| 2.5° | 3135.2 | 3110.6 | 3086.6 | 3057.8 | 3027.8 | 2994.2 | 2977.4 | 2960.6 | 2956.4 | 2951.6 | 2934.8 |
| 5° | 3048.8 | 3014.0 | 2954.0 | 2888.0 | 2818.3 | 2750.5 | 2698.9 | 2666.5 | 2641.9 | 2629.3 | 2607.1 |
| 7.5° | 2937.2 | 2886.2 | 2781.1 | 2667.1 | 2550.1 | 2443.2 | 2350.8 | 2292.6 | 2237.4 | 2211.6 | 2182.2 |
| 10° | 2830.9 | 2754.7 | 2591.5 | 2423.4 | 2255.4 | 2093.9 | 1942.1 | 1834.7 | 1739.3 | 1685.8 | 1648.0 |
| 12.5° | 2739.7 | 2635.3 | 2409.0 | 2181.6 | 1951.1 | 1721.2 | 1493.8 | 1314.9 | 1165.5 | 1086.9 | 1046.7 |
| 15° | 2650.9 | 2524.9 | 2235.6 | 1946.9 | 1651.0 | 1338.3 | 1039.5 | 836.6 | 713.0 | 663.8 | 647.0 |
| 17.5° | 2570.5 | 2409.0 | 2061.5 | 1710.4 | 1341.3 | 963.3 | 698.6 | 587.0 | 539.5 | 523.3 | 517.9 |
| 20° | 2483.4 | 2292.0 | 1880.9 | 1463.2 | 1018.5 | 673.4 | 545.5 | 496.3 | 477.1 | 472.3 | 469.9 |
| 22.5° | 2399.4 | 2176.8 | 1708.0 | 1198.5 | 731.6 | 519.7 | 468.7 | 448.3 | 445.3 | 449.5 | 449.5 |
| 25° | 2328.0 | 2073.5 | 1521.4 | 921.8 | 537.1 | 437.5 | 419.5 | 414.7 | 426.1 | 441.7 | 444.7 |
| 27.5° | 2274.6 | 1988.9 | 1322.7 | 680.6 | 427.9 | 380.5 | 379.9 | 387.7 | 415.9 | 445.9 | 451.9 |
| 30° | 2238.0 | 1908.5 | 1110.3 | 490.9 | 358.9 | 334.9 | 344.5 | 361.3 | 402.7 | 445.3 | 456.7 |
| 32.5° | 2219.4 | 1849.1 | 888.8 | 379.9 | 307.3 | 294.1 | 310.3 | 330.7 | 371.5 | 411.1 | 426.1 |
| 35° | 2233.8 | 1805.3 | 680.0 | 316.9 | 271.3 | 261.1 | 277.9 | 297.7 | 321.7 | 338.5 | 349.9 |
| 37.5° | 2287.8 | 1787.9 | 513.1 | 283.9 | 246.7 | 237.1 | 250.3 | 261.7 | 271.3 | 276.1 | 281.5 |
| 40° | 2404.2 | 1806.5 | 411.1 | 267.1 | 232.9 | 220.9 | 226.3 | 230.5 | 236.5 | 241.3 | 243.7 |
| 42.5° | 2575.9 | 1862.3 | 368.5 | 260.5 | 225.7 | 208.3 | 207.1 | 208.9 | 216.7 | 225.7 | 227.5 |
| 45° | 2815.9 | 1960.7 | 365.5 | 264.7 | 222.1 | 198.1 | 192.7 | 195.1 | 207.1 | 220.9 | 223.3 |
| 47.5° | 3122.6 | 2110.7 | 389.5 | 277.3 | 225.1 | 192.7 | 183.6 | 186.6 | 201.7 | 220.3 | 223.3 |
| 50° | 3494.1 | 2320.2 | 429.7 | 295.9 | 238.3 | 193.9 | 180.6 | 182.4 | 198.1 | 218.5 | 221.5 |
| 52.5° | 3932.8 | 2617.3 | 473.5 | 313.9 | 252.1 | 201.7 | 183.0 | 178.8 | 193.3 | 211.3 | 214.9 |
| 55° | 4420.8 | 2998.4 | 518.5 | 330.1 | 259.3 | 211.3 | 187.8 | 174.0 | 184.2 | 199.3 | 202.3 |
| 57.5° | 5019.7 | 3531.3 | 596.6 | 345.7 | 264.1 | 217.9 | 192.7 | 169.2 | 172.8 | 183.6 | 186.0 |
| 60° | 5830.5 | 4285.1 | 734.0 | 371.5 | 274.9 | 220.3 | 192.0 | 165.0 | 161.4 | 167.4 | 168.6 |
| 62.5° | 6802.2 | 5103.7 | 848.6 | 403.9 | 292.9 | 222.1 | 188.4 | 162.0 | 151.8 | 151.8 | 153.0 |
| 65° | 7378.9 | 5322.8 | 785.0 | 430.9 | 307.9 | 220.3 | 184.2 | 159.0 | 144.6 | 138.0 | 138.6 |
| 67.5° | 6889.8 | 4681.2 | 672.8 | 436.3 | 307.3 | 211.9 | 177.6 | 153.6 | 137.4 | 127.2 | 126.6 |
| 69° | 6277.0 | 4039.1 | 622.4 | 421.9 | 292.9 | 201.1 | 169.2 | 147.6 | 132.0 | 121.2 | 120.6 |
| 70° | 5783.1 | 3647.1 | 589.4 | 406.3 | 277.3 | 193.3 | 162.6 | 142.2 | 127.8 | 117.6 | 116.4 |
| 72.5° | 4204.7 | 2389.8 | 503.5 | 349.3 | 228.7 | 162.0 | 140.4 | 124.8 | 114.0 | 108.0 | 106.8 |
| 75° | 2101.1 | 1139.7 | 408.7 | 283.3 | 175.2 | 129.6 | 115.2 | 104.4 | 99.0 | 97.8 | 97.2 |
| 77.5° | 690.2 | 522.1 | 292.3 | 211.3 | 130.2 | 101.4 | 93.0 | 85.2 | 84.0 | 87.6 | 86.4 |
| 80° | 379.3 | 303.7 | 185.4 | 139.8 | 88.8 | 74.4 | 73.2 | 69.0 | 70.8 | 76.8 | 75.6 |
| 82.5° | 193.3 | 157.8 | 114.6 | 84.0 | 60.0 | 53.4 | 58.2 | 55.8 | 58.2 | 63.6 | 63.0 |
| 85° | 95.4 | 86.4 | 72.6 | 51.0 | 39.6 | 34.2 | 41.4 | 43.2 | 44.4 | 48.6 | 48.6 |
| 87.5° | 55.2 | 51.0 | 38.4 | 24.0 | 19.8 | 18.0 | 24.0 | 23.4 | 27.6 | 30.0 | 29.4 |
| 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)