

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: P200417

Luminaire Tested: **GPC-AF-01-LED-E1-AFL-7060-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200417  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GPC-AF-01-LED-E1-AFL-7060-1200  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 5700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7154 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

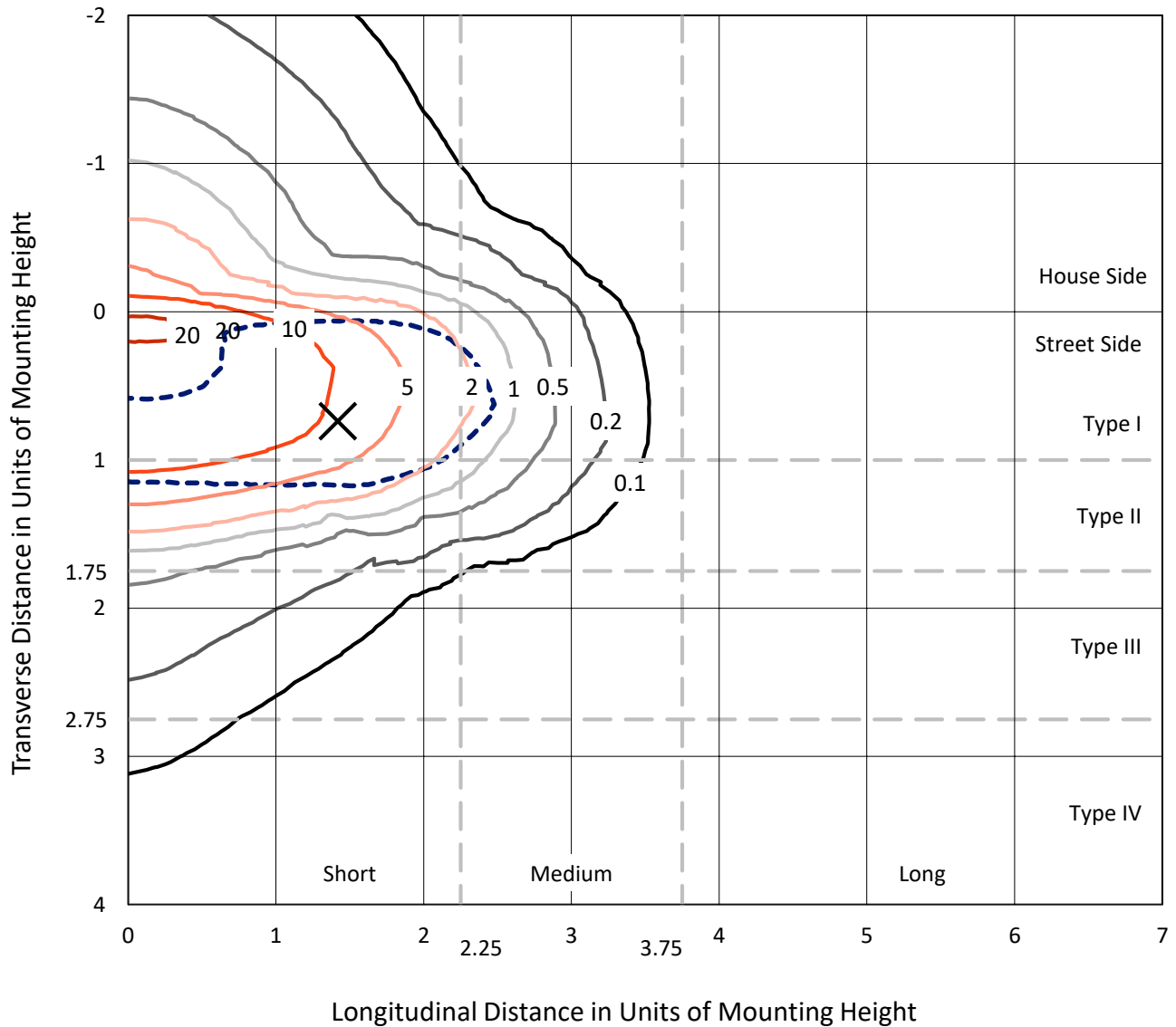
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

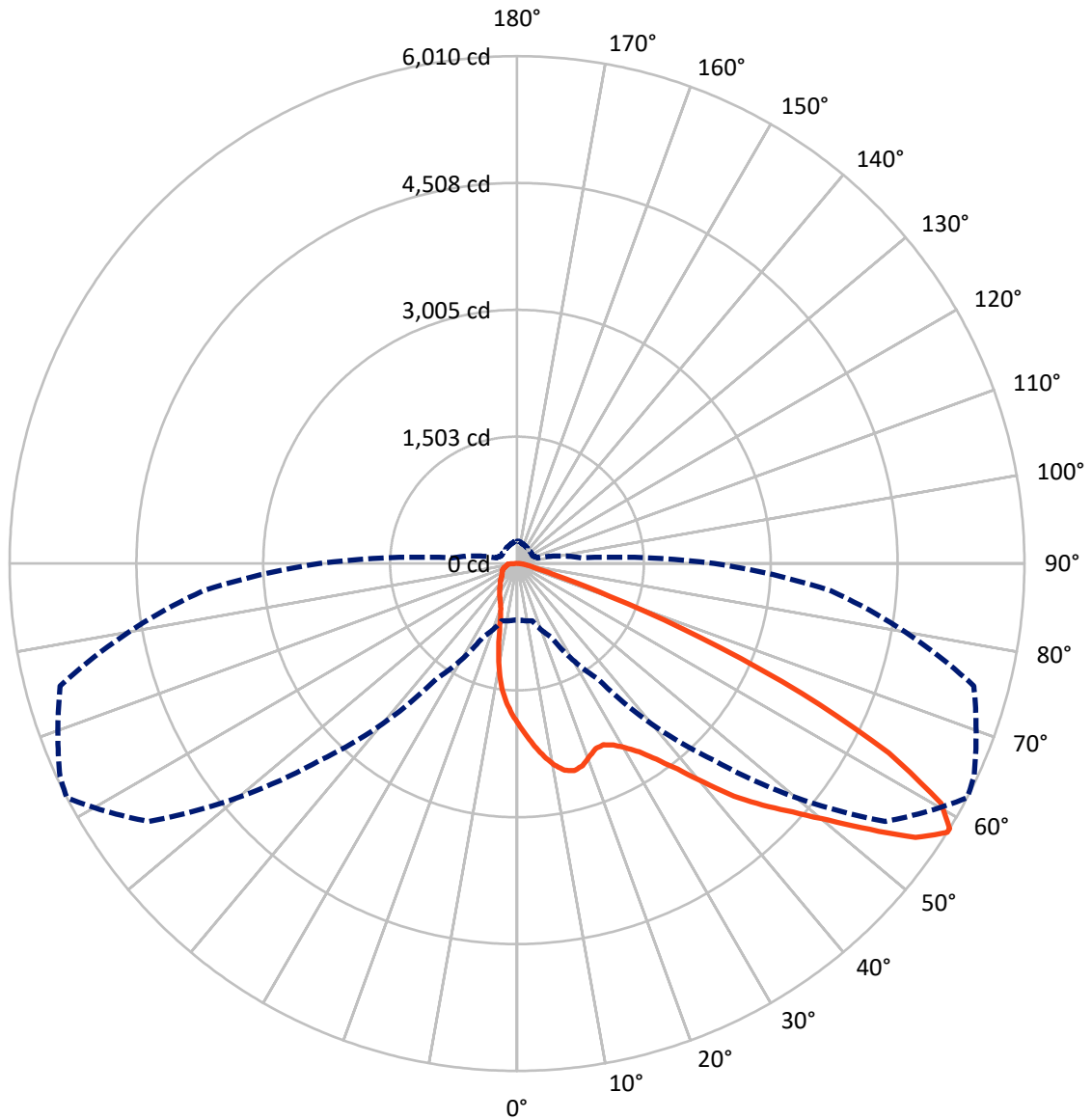
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.2 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1091.0   | 0.0    | 1091.0 |
|                    | % Fixture | 15.3     | 0.0    | 15.3   |
| <b>Street Side</b> | Lumens    | 6063.0   | 0.0    | 6063.0 |
|                    | % Fixture | 84.7     | 0.0    | 84.7   |
| <b>Total</b>       | Lumens    | 7154.0   | 0.0    | 7154.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 170.0  | 2.4       |
| 10°-20°   | 434.4  | 6.1       |
| 20°-30°   | 702.3  | 9.8       |
| 30°-40°   | 1114.9 | 15.6      |
| 40°-50°   | 1631.3 | 22.8      |
| 50°-60°   | 1706.2 | 23.8      |
| 60°-70°   | 1008.0 | 14.1      |
| 70°-80°   | 284.0  | 4.0       |
| 80°-90°   | 103.1  | 1.4       |
| 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°    | 7154.0 | 100.0     |
| 0°-180°   | 7154.0 | 100.0     |



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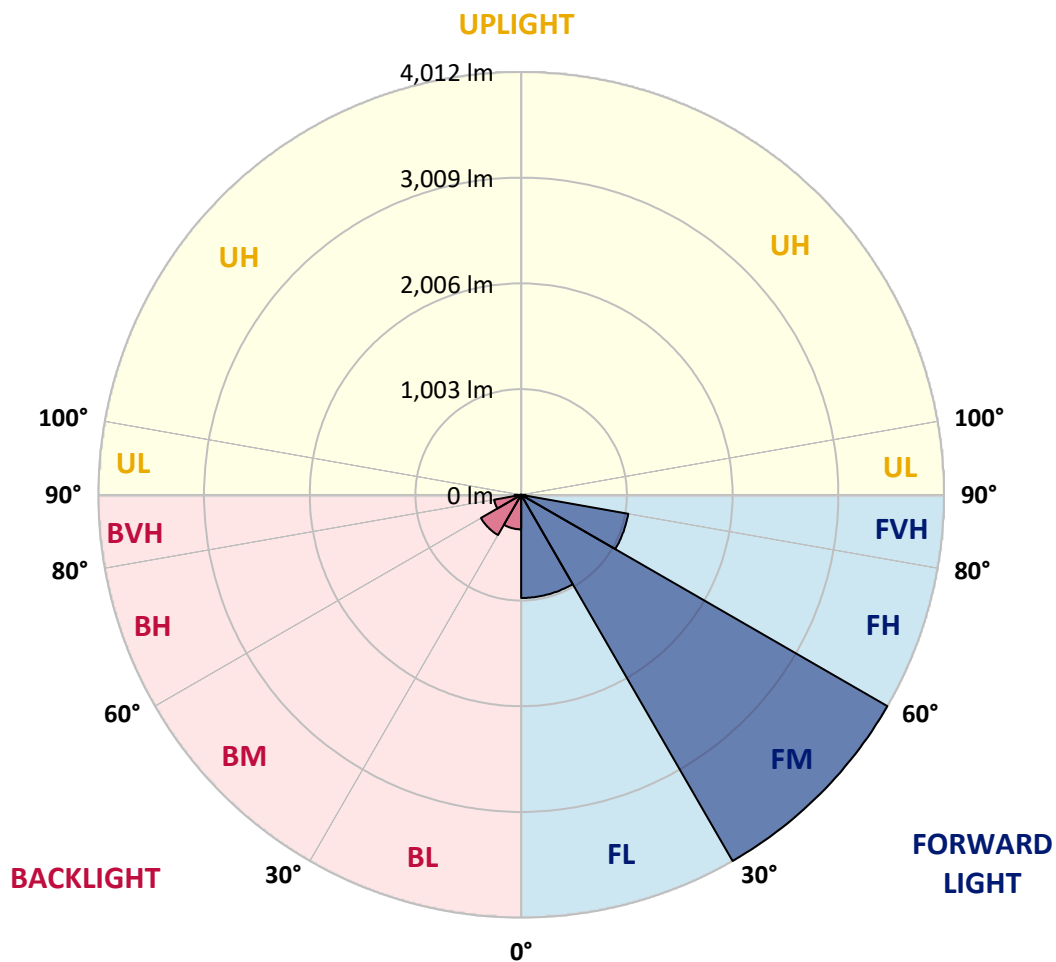
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 978.8  | 13.7      |                         |      |         |
| FM (30°-60°)   | 4011.9 | 56.1      |                         |      |         |
| FH (60°-80°)   | 1031.6 | 14.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 40.7   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 327.9  | 4.6       | B1/500                  |      |         |
| BM (30°-60°)   | 440.4  | 6.2       | B1/1000                 |      |         |
| BH (60°-80°)   | 260.3  | 3.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 62.4   | 0.9       |                         |      | G1/100  |
| 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°    | 55°    | 62.5°  | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1900.3 | 1900.3 | 1900.3 | 1900.3 | 1900.3 | 1900.3 | 1900.3 | 1900.3 | 1900.3 | 1900.3 | 1900.3 |
| 2.5°  | 2171.5 | 2154.0 | 2142.9 | 2133.1 | 2120.3 | 2093.0 | 2056.3 | 2033.0 | 2021.3 | 1981.2 | 1933.7 |
| 5°    | 2384.4 | 2368.9 | 2357.5 | 2344.3 | 2321.4 | 2278.6 | 2219.3 | 2172.2 | 2148.9 | 2068.8 | 1973.8 |
| 7.5°  | 2334.5 | 2340.9 | 2360.8 | 2395.5 | 2425.2 | 2419.4 | 2366.6 | 2306.6 | 2275.9 | 2164.4 | 2020.2 |
| 10°   | 2034.1 | 2045.2 | 2079.5 | 2160.7 | 2292.1 | 2426.9 | 2467.9 | 2426.5 | 2395.5 | 2259.1 | 2068.1 |
| 12.5° | 1973.8 | 1973.4 | 1976.1 | 1997.7 | 2075.8 | 2265.5 | 2471.3 | 2513.1 | 2494.6 | 2349.4 | 2116.9 |
| 15°   | 1998.3 | 1999.0 | 1997.0 | 2006.1 | 2030.3 | 2105.5 | 2368.2 | 2546.4 | 2559.6 | 2440.3 | 2167.5 |
| 17.5° | 2063.0 | 2061.3 | 2053.6 | 2053.6 | 2062.4 | 2091.7 | 2247.0 | 2515.4 | 2576.1 | 2520.8 | 2211.9 |
| 20°   | 2171.5 | 2163.8 | 2143.2 | 2124.3 | 2114.9 | 2130.7 | 2197.1 | 2444.0 | 2547.5 | 2591.2 | 2248.6 |
| 22.5° | 2302.9 | 2296.8 | 2263.5 | 2223.0 | 2190.4 | 2190.0 | 2222.7 | 2381.7 | 2497.9 | 2657.6 | 2279.6 |
| 25°   | 2472.7 | 2462.9 | 2413.4 | 2348.7 | 2291.4 | 2269.5 | 2278.6 | 2378.7 | 2471.0 | 2729.7 | 2307.3 |
| 27.5° | 2672.1 | 2654.2 | 2595.6 | 2502.3 | 2418.1 | 2374.0 | 2360.8 | 2433.6 | 2495.6 | 2819.0 | 2345.7 |
| 30°   | 2914.0 | 2893.4 | 2818.3 | 2696.7 | 2577.8 | 2505.3 | 2477.4 | 2530.9 | 2577.1 | 2927.8 | 2407.3 |
| 32.5° | 3189.2 | 3159.6 | 3072.6 | 2938.6 | 2782.3 | 2671.8 | 2626.3 | 2659.6 | 2696.4 | 3058.8 | 2484.5 |
| 35°   | 3569.5 | 3534.2 | 3408.5 | 3223.6 | 3047.0 | 2895.1 | 2822.3 | 2846.6 | 2882.3 | 3254.2 | 2596.0 |
| 37.5° | 3828.9 | 3813.1 | 3729.5 | 3555.7 | 3363.7 | 3188.9 | 3076.3 | 3090.5 | 3110.7 | 3498.5 | 2738.8 |
| 40°   | 3826.6 | 3833.0 | 3834.7 | 3836.3 | 3705.6 | 3538.2 | 3417.3 | 3402.4 | 3398.4 | 3766.6 | 2901.2 |
| 42.5° | 3634.9 | 3661.2 | 3746.1 | 3918.2 | 3997.7 | 3920.9 | 3810.1 | 3767.3 | 3746.1 | 4082.6 | 3073.3 |
| 45°   | 3341.5 | 3355.6 | 3514.6 | 3850.8 | 4147.3 | 4299.9 | 4216.0 | 4081.2 | 4042.8 | 4373.0 | 3216.1 |
| 47.5° | 3190.2 | 3205.7 | 3305.8 | 3672.3 | 4145.6 | 4606.1 | 4654.6 | 4397.9 | 4329.2 | 4625.6 | 3339.4 |
| 50°   | 2830.1 | 2862.4 | 2988.4 | 3361.7 | 3994.3 | 4746.9 | 5113.1 | 4775.2 | 4633.0 | 4871.6 | 3463.1 |
| 52.5° | 2168.8 | 2218.7 | 2359.8 | 2851.0 | 3610.6 | 4677.2 | 5480.0 | 5232.7 | 5031.9 | 5126.2 | 3569.2 |
| 55°   | 1368.1 | 1405.1 | 1523.7 | 2013.5 | 2888.4 | 4314.4 | 5619.1 | 5727.6 | 5549.0 | 5367.4 | 3661.2 |
| 57.5° | 743.8  | 760.3  | 804.8  | 1111.7 | 1878.8 | 3512.3 | 5416.3 | 6009.2 | 5935.1 | 5572.3 | 3730.6 |
| 58°   | 665.7  | 676.8  | 704.4  | 963.5  | 1666.2 | 3293.0 | 5326.3 | 6010.2 | 5973.1 | 5602.2 | 3735.9 |
| 60°   | 493.9  | 488.1  | 463.5  | 549.8  | 927.4  | 2274.9 | 4782.6 | 5769.7 | 5878.5 | 5639.0 | 3709.7 |
| 62.5° | 433.9  | 420.1  | 369.9  | 364.2  | 451.1  | 1048.0 | 3659.5 | 4942.3 | 5199.3 | 5429.4 | 3550.0 |
| 65°   | 407.6  | 392.8  | 328.1  | 307.2  | 325.4  | 443.3  | 2155.7 | 3706.6 | 4029.0 | 4794.1 | 3141.7 |
| 67.5° | 388.1  | 368.9  | 301.5  | 272.9  | 274.2  | 293.1  | 864.1  | 2334.5 | 2697.4 | 3639.9 | 2443.7 |
| 70°   | 369.2  | 348.3  | 278.9  | 245.9  | 238.2  | 231.8  | 343.6  | 1168.6 | 1497.7 | 2299.2 | 1558.0 |
| 72.5° | 349.0  | 328.5  | 259.1  | 224.7  | 209.5  | 188.3  | 224.4  | 478.0  | 667.7  | 1087.8 | 706.8  |
| 75°   | 319.7  | 301.2  | 239.2  | 205.8  | 184.3  | 156.0  | 169.4  | 249.6  | 299.5  | 433.2  | 340.6  |
| 77.5° | 283.6  | 268.5  | 216.9  | 190.3  | 163.4  | 126.7  | 130.4  | 173.2  | 192.0  | 247.9  | 202.5  |
| 80°   | 203.8  | 209.2  | 193.0  | 171.1  | 145.5  | 102.7  | 100.1  | 126.3  | 136.4  | 159.3  | 131.7  |
| 82.5° | 143.2  | 146.2  | 159.7  | 139.8  | 120.3  | 80.9   | 73.8   | 88.9   | 95.0   | 104.8  | 71.1   |
| 85°   | 98.7   | 95.3   | 109.5  | 97.4   | 86.9   | 53.9   | 50.5   | 60.3   | 64.0   | 65.0   | 36.7   |
| 87.5° | 59.3   | 59.3   | 63.3   | 52.2   | 46.8   | 28.0   | 27.3   | 34.4   | 36.7   | 35.0   | 20.2   |
| 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°    | 1900.3 | 1900.3 | 1900.3 | 1900.3 | 1900.3 | 1900.3 | 1900.3 | 1900.3 | 1900.3 | 1900.3 | 1900.3 |
| 2.5°  | 1905.4 | 1881.4 | 1830.6 | 1789.8 | 1738.3 | 1684.7 | 1654.7 | 1622.7 | 1600.8 | 1585.0 | 1610.3 |
| 5°    | 1919.9 | 1871.0 | 1765.9 | 1666.2 | 1556.0 | 1441.5 | 1354.6 | 1273.7 | 1217.5 | 1182.4 | 1215.4 |
| 7.5°  | 1942.8 | 1867.6 | 1700.2 | 1529.8 | 1332.0 | 1141.3 | 970.9  | 864.1  | 801.8  | 771.1  | 790.3  |
| 10°   | 1969.0 | 1862.2 | 1623.1 | 1344.8 | 1061.8 | 821.6  | 694.3  | 651.2  | 637.0  | 631.3  | 634.0  |
| 12.5° | 1990.9 | 1850.8 | 1528.4 | 1121.1 | 797.4  | 648.8  | 612.1  | 611.1  | 614.1  | 614.8  | 615.8  |
| 15°   | 2006.4 | 1833.9 | 1387.9 | 888.0  | 637.7  | 591.2  | 589.2  | 595.3  | 601.0  | 603.3  | 604.7  |
| 17.5° | 2016.9 | 1799.3 | 1229.3 | 702.0  | 571.3  | 563.3  | 568.0  | 575.7  | 581.8  | 583.5  | 584.8  |
| 20°   | 2015.9 | 1748.4 | 1040.3 | 585.5  | 535.3  | 535.3  | 543.4  | 549.4  | 549.8  | 547.8  | 548.8  |
| 22.5° | 2005.4 | 1678.7 | 857.0  | 523.5  | 503.3  | 509.0  | 517.1  | 511.4  | 487.8  | 472.3  | 473.3  |
| 25°   | 1987.9 | 1595.4 | 700.0  | 484.1  | 473.6  | 483.8  | 481.4  | 438.3  | 404.6  | 389.4  | 389.4  |
| 27.5° | 1972.4 | 1497.1 | 579.4  | 449.7  | 444.0  | 456.5  | 414.7  | 375.6  | 361.5  | 354.4  | 352.0  |
| 30°   | 1961.3 | 1391.0 | 498.9  | 416.7  | 416.0  | 406.9  | 359.8  | 349.0  | 346.6  | 340.9  | 338.9  |
| 32.5° | 1964.0 | 1283.5 | 447.4  | 387.7  | 390.1  | 348.3  | 333.5  | 335.9  | 333.8  | 327.8  | 325.1  |
| 35°   | 1986.2 | 1181.4 | 413.7  | 361.5  | 354.4  | 314.6  | 318.0  | 322.4  | 321.7  | 313.3  | 310.6  |
| 37.5° | 2026.0 | 1084.7 | 391.4  | 339.6  | 309.3  | 297.8  | 303.2  | 309.9  | 308.2  | 302.5  | 300.5  |
| 40°   | 2067.7 | 993.8  | 373.3  | 322.4  | 282.6  | 286.3  | 291.1  | 294.8  | 296.5  | 298.1  | 296.8  |
| 42.5° | 2108.5 | 898.8  | 351.0  | 304.9  | 271.5  | 275.6  | 277.6  | 281.3  | 290.4  | 296.8  | 296.5  |
| 45°   | 2132.8 | 809.5  | 328.1  | 279.9  | 262.8  | 265.1  | 263.8  | 271.2  | 282.3  | 292.7  | 293.1  |
| 47.5° | 2159.7 | 740.1  | 309.9  | 257.0  | 254.3  | 256.0  | 252.0  | 259.4  | 269.5  | 282.3  | 283.6  |
| 50°   | 2192.4 | 698.7  | 295.4  | 238.8  | 242.9  | 242.9  | 241.9  | 248.6  | 262.8  | 277.6  | 280.3  |
| 52.5° | 2229.4 | 690.6  | 283.3  | 225.7  | 231.4  | 231.1  | 232.1  | 242.2  | 257.7  | 272.2  | 274.6  |
| 55°   | 2274.6 | 712.5  | 270.2  | 215.9  | 220.3  | 221.7  | 225.0  | 236.5  | 249.6  | 266.1  | 267.1  |
| 57.5° | 2327.1 | 757.0  | 259.7  | 208.2  | 210.2  | 214.6  | 220.0  | 230.4  | 244.6  | 262.8  | 263.8  |
| 58°   | 2335.9 | 766.4  | 258.0  | 207.5  | 208.2  | 213.2  | 219.3  | 229.4  | 243.6  | 263.4  | 264.4  |
| 60°   | 2336.2 | 797.7  | 254.3  | 204.5  | 200.4  | 208.9  | 215.6  | 225.7  | 241.9  | 265.8  | 268.2  |
| 62.5° | 2253.4 | 797.4  | 251.6  | 200.1  | 192.4  | 202.8  | 210.5  | 222.3  | 240.2  | 271.5  | 276.2  |
| 65°   | 1984.2 | 724.6  | 238.8  | 193.4  | 186.0  | 197.4  | 206.2  | 220.0  | 244.9  | 296.5  | 299.5  |
| 67.5° | 1552.0 | 593.9  | 214.9  | 183.9  | 177.5  | 192.0  | 203.5  | 219.6  | 250.0  | 302.2  | 304.2  |
| 70°   | 1026.1 | 444.3  | 188.7  | 173.2  | 168.8  | 185.6  | 204.8  | 231.1  | 244.2  | 290.0  | 284.7  |
| 72.5° | 532.6  | 311.9  | 167.4  | 159.7  | 158.7  | 179.9  | 224.4  | 229.7  | 238.5  | 272.9  | 266.1  |
| 75°   | 279.6  | 216.6  | 148.9  | 144.9  | 146.5  | 178.5  | 264.8  | 223.7  | 231.1  | 261.1  | 273.9  |
| 77.5° | 171.1  | 174.8  | 133.1  | 131.4  | 134.8  | 174.5  | 264.4  | 215.9  | 220.3  | 240.2  | 254.3  |
| 80°   | 114.5  | 141.8  | 120.9  | 121.3  | 123.6  | 159.7  | 237.5  | 203.8  | 207.2  | 227.1  | 241.5  |
| 82.5° | 72.4   | 83.9   | 109.8  | 115.5  | 112.5  | 131.7  | 201.8  | 185.6  | 190.3  | 259.7  | 274.6  |
| 85°   | 36.7   | 52.6   | 95.3   | 111.2  | 101.4  | 92.3   | 163.7  | 162.7  | 165.1  | 187.3  | 195.7  |
| 87.5° | 16.8   | 29.0   | 74.4   | 97.0   | 76.5   | 57.6   | 118.9  | 120.6  | 130.0  | 133.1  | 133.1  |
| 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)