

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: P199935

Luminaire Tested: **GPC-AF-01-LED-E1-AFL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199935
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-7030
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6307.5 lumens
Efficiency: N/A
Efficacy: 106.9 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

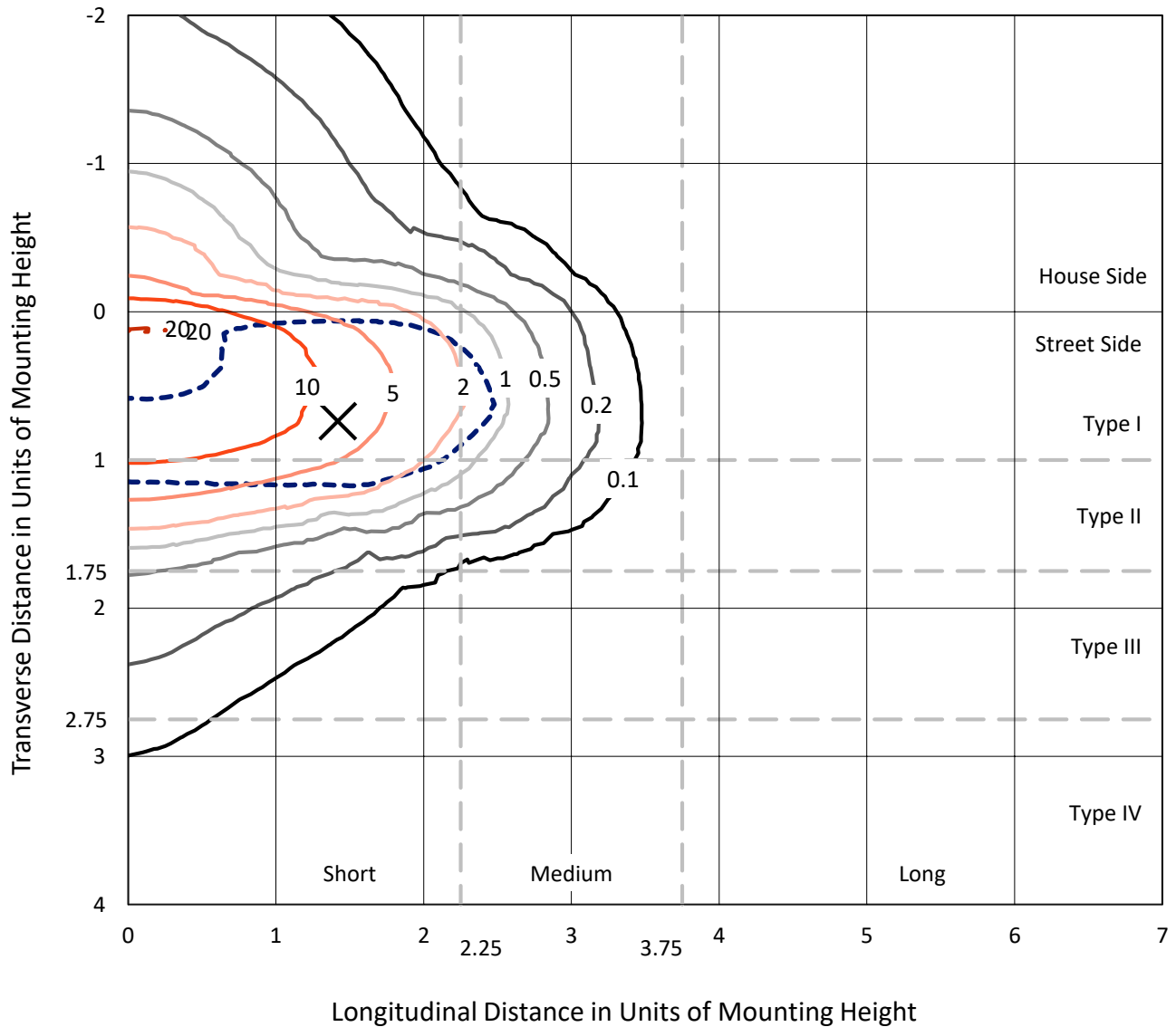
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

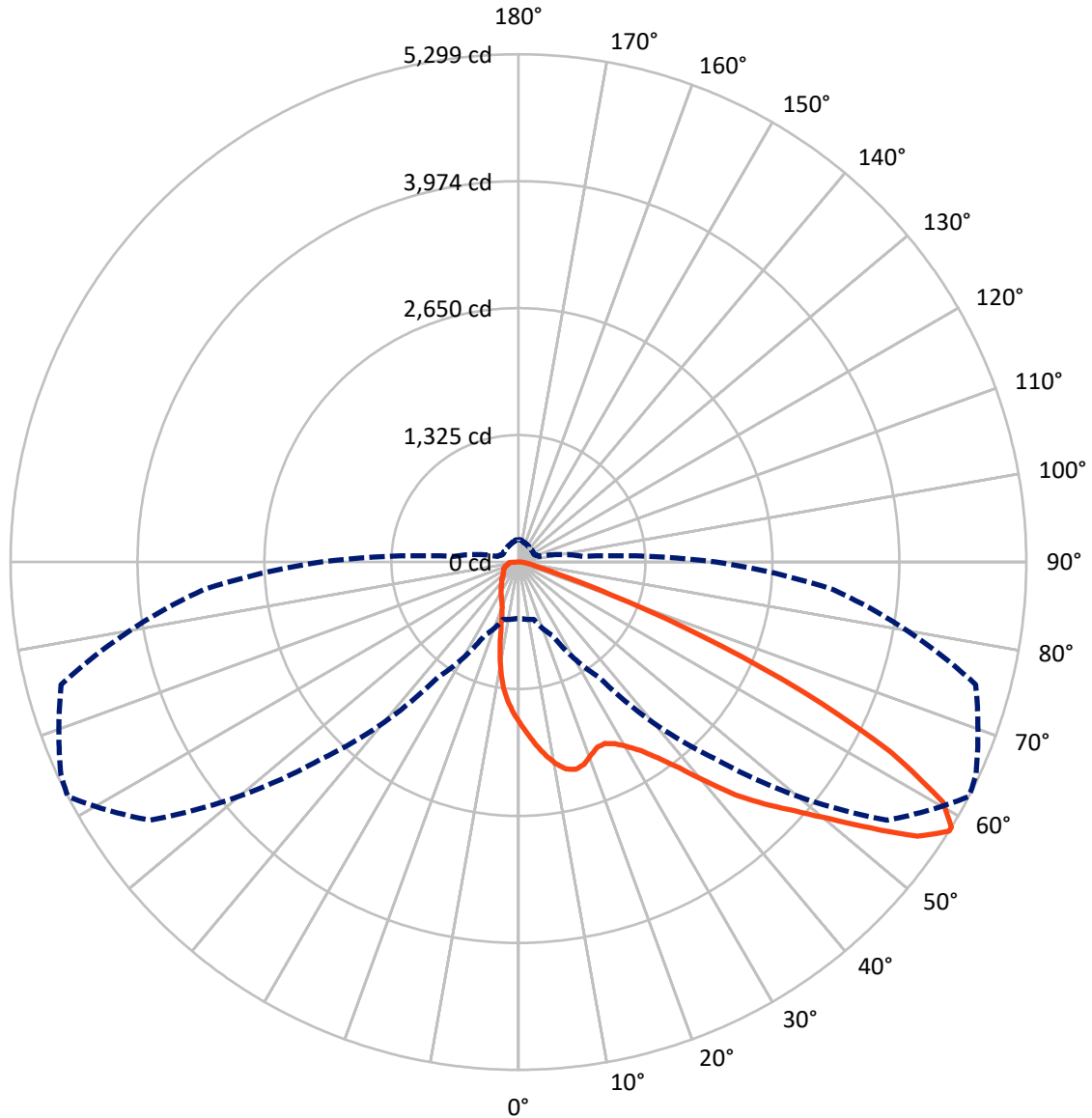
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.4 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 |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 961.9 | 0.0 | 961.9 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 5345.6 | 0.0 | 5345.6 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 6307.5 | 0.0 | 6307.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 149.8 | 2.4 |
| 10°-20° | 383.0 | 6.1 |
| 20°-30° | 619.2 | 9.8 |
| 30°-40° | 982.9 | 15.6 |
| 40°-50° | 1438.2 | 22.8 |
| 50°-60° | 1504.3 | 23.8 |
| 60°-70° | 888.7 | 14.1 |
| 70°-80° | 250.4 | 4.0 |
| 80°-90° | 90.9 | 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° | 6307.5 | 100.0 |
| 0°-180° | 6307.5 | 100.0 |



REPORT NUMBER: P199935

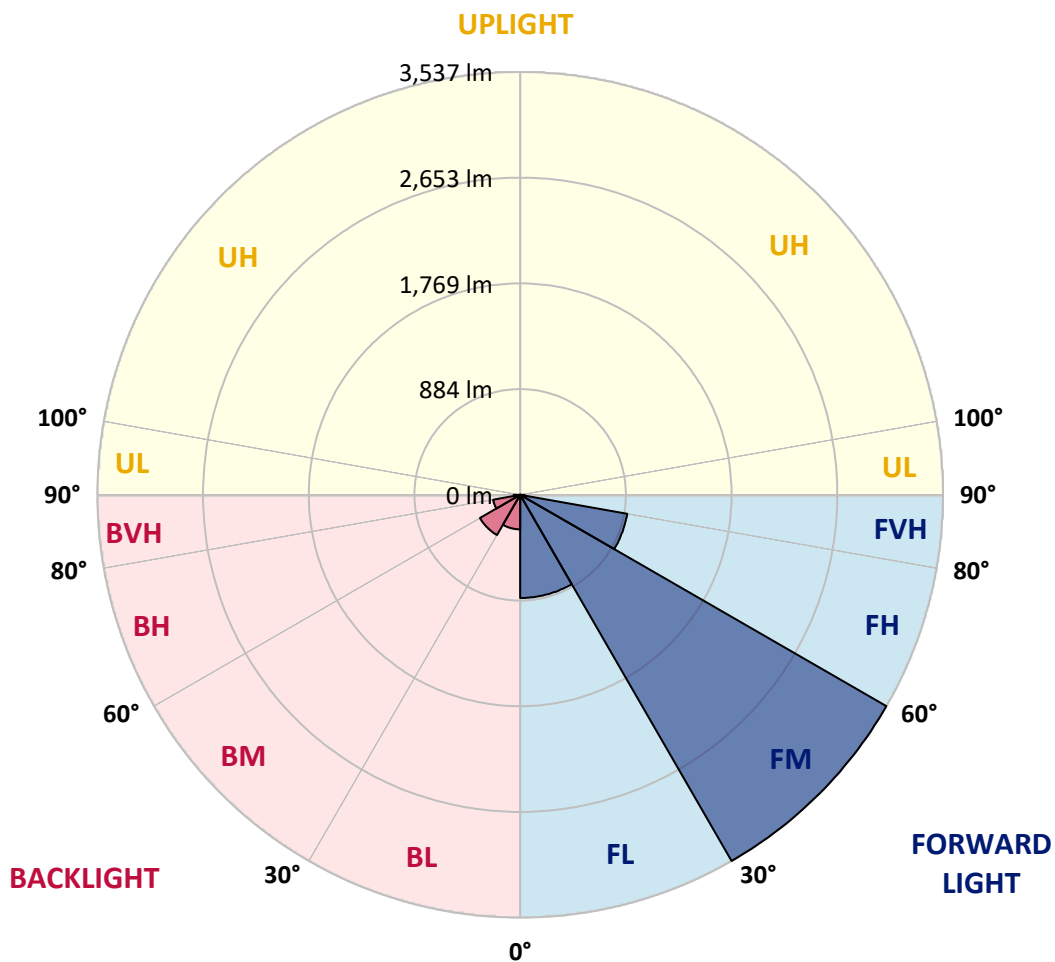
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 863.0 | 13.7 | | | |
| FM | (30°-60°) | 3537.2 | 56.1 | | | |
| FH | (60°-80°) | 909.6 | 14.4 | | | G1/1800 |
| FVH | (80°-90°) | 35.9 | 0.6 | | | G1/100 |
| BL | (0°-30°) | 289.1 | 4.6 | B1/500 | | |
| BM | (30°-60°) | 388.2 | 6.2 | B1/1000 | | |
| BH | (60°-80°) | 229.5 | 3.6 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 55.0 | 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° | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 |
| 2.5° | 1914.5 | 1899.2 | 1889.3 | 1880.7 | 1869.4 | 1845.4 | 1812.9 | 1792.5 | 1782.1 | 1746.7 | 1704.9 |
| 5° | 2102.2 | 2088.6 | 2078.5 | 2066.9 | 2046.8 | 2009.1 | 1956.8 | 1915.2 | 1894.7 | 1824.0 | 1740.2 |
| 7.5° | 2058.3 | 2064.0 | 2081.5 | 2112.1 | 2138.2 | 2133.2 | 2086.6 | 2033.7 | 2006.6 | 1908.3 | 1781.3 |
| 10° | 1793.4 | 1803.3 | 1833.5 | 1905.1 | 2020.9 | 2139.8 | 2175.9 | 2139.4 | 2112.1 | 1991.8 | 1823.4 |
| 12.5° | 1740.2 | 1740.0 | 1742.2 | 1761.3 | 1830.2 | 1997.5 | 2178.9 | 2215.8 | 2199.4 | 2071.3 | 1866.4 |
| 15° | 1762.0 | 1762.5 | 1760.7 | 1768.7 | 1790.1 | 1856.4 | 2088.1 | 2245.2 | 2256.8 | 2151.6 | 1911.1 |
| 17.5° | 1818.9 | 1817.4 | 1810.7 | 1810.7 | 1818.3 | 1844.2 | 1981.1 | 2217.9 | 2271.3 | 2222.6 | 1950.2 |
| 20° | 1914.5 | 1907.7 | 1889.6 | 1873.0 | 1864.6 | 1878.6 | 1937.1 | 2154.8 | 2246.1 | 2284.6 | 1982.6 |
| 22.5° | 2030.4 | 2025.0 | 1995.6 | 1960.0 | 1931.1 | 1930.9 | 1959.7 | 2099.9 | 2202.3 | 2343.2 | 2010.0 |
| 25° | 2180.0 | 2171.5 | 2127.9 | 2070.8 | 2020.3 | 2001.0 | 2009.1 | 2097.2 | 2178.6 | 2406.8 | 2034.3 |
| 27.5° | 2355.9 | 2340.3 | 2288.6 | 2206.3 | 2131.9 | 2093.1 | 2081.5 | 2145.7 | 2200.3 | 2485.4 | 2068.2 |
| 30° | 2569.2 | 2551.1 | 2484.9 | 2377.6 | 2272.8 | 2208.9 | 2184.3 | 2231.5 | 2272.1 | 2581.4 | 2122.5 |
| 32.5° | 2811.9 | 2785.7 | 2709.1 | 2590.9 | 2453.1 | 2355.6 | 2315.5 | 2344.9 | 2377.4 | 2696.9 | 2190.5 |
| 35° | 3147.2 | 3116.0 | 3005.1 | 2842.2 | 2686.4 | 2552.6 | 2488.4 | 2509.8 | 2541.3 | 2869.1 | 2288.8 |
| 37.5° | 3375.9 | 3361.9 | 3288.2 | 3134.9 | 2965.8 | 2811.6 | 2712.4 | 2724.8 | 2742.6 | 3084.5 | 2414.7 |
| 40° | 3373.8 | 3379.5 | 3380.9 | 3382.4 | 3267.2 | 3119.6 | 3013.0 | 2999.8 | 2996.3 | 3320.9 | 2557.9 |
| 42.5° | 3204.8 | 3227.9 | 3302.8 | 3454.6 | 3524.7 | 3457.0 | 3359.2 | 3321.5 | 3302.8 | 3599.5 | 2709.6 |
| 45° | 2946.0 | 2958.6 | 3098.8 | 3395.2 | 3656.6 | 3791.1 | 3717.1 | 3598.4 | 3564.5 | 3855.5 | 2835.6 |
| 47.5° | 2812.8 | 2826.4 | 2914.6 | 3237.8 | 3655.0 | 4061.0 | 4103.9 | 3877.5 | 3817.0 | 4078.3 | 2944.3 |
| 50° | 2495.3 | 2523.8 | 2634.8 | 2963.8 | 3521.8 | 4185.2 | 4508.1 | 4210.2 | 4084.8 | 4295.2 | 3053.4 |
| 52.5° | 1912.1 | 1956.2 | 2080.7 | 2513.6 | 3183.4 | 4123.8 | 4831.6 | 4613.6 | 4436.6 | 4519.7 | 3146.8 |
| 55° | 1206.2 | 1238.9 | 1343.5 | 1775.3 | 2546.7 | 3803.9 | 4954.3 | 5049.9 | 4892.4 | 4732.3 | 3227.9 |
| 57.5° | 655.8 | 670.5 | 709.5 | 980.2 | 1656.5 | 3096.7 | 4775.4 | 5298.2 | 5232.9 | 4913.0 | 3289.1 |
| 58° | 586.9 | 596.7 | 621.0 | 849.5 | 1469.0 | 2903.3 | 4696.1 | 5299.1 | 5266.4 | 4939.4 | 3293.9 |
| 60° | 435.4 | 430.4 | 408.7 | 484.8 | 817.7 | 2005.8 | 4216.8 | 5087.0 | 5182.9 | 4971.8 | 3270.7 |
| 62.5° | 382.5 | 370.4 | 326.1 | 321.1 | 397.7 | 924.0 | 3226.5 | 4357.5 | 4584.2 | 4786.9 | 3130.0 |
| 65° | 359.4 | 346.4 | 289.3 | 270.9 | 287.0 | 390.8 | 1900.6 | 3268.1 | 3552.3 | 4226.8 | 2769.9 |
| 67.5° | 342.2 | 325.3 | 265.8 | 240.6 | 241.8 | 258.4 | 761.9 | 2058.3 | 2378.2 | 3209.3 | 2154.6 |
| 70° | 325.5 | 307.1 | 246.0 | 216.8 | 210.0 | 204.4 | 302.9 | 1030.4 | 1320.5 | 2027.1 | 1373.7 |
| 72.5° | 307.7 | 289.5 | 228.4 | 198.1 | 184.7 | 166.1 | 197.8 | 421.4 | 588.7 | 959.1 | 623.1 |
| 75° | 281.9 | 265.5 | 210.9 | 181.5 | 162.5 | 137.5 | 149.3 | 220.0 | 264.1 | 382.0 | 300.3 |
| 77.5° | 250.1 | 236.8 | 191.3 | 167.8 | 144.0 | 111.7 | 114.9 | 152.6 | 169.4 | 218.6 | 178.5 |
| 80° | 179.7 | 184.4 | 170.2 | 150.9 | 128.3 | 90.5 | 88.2 | 111.3 | 120.3 | 140.5 | 116.2 |
| 82.5° | 126.2 | 128.9 | 140.8 | 123.3 | 106.0 | 71.2 | 65.0 | 78.4 | 83.8 | 92.4 | 62.8 |
| 85° | 87.1 | 84.0 | 96.4 | 85.9 | 76.6 | 47.5 | 44.6 | 53.2 | 56.5 | 57.4 | 32.3 |
| 87.5° | 52.2 | 52.2 | 55.8 | 46.0 | 41.3 | 24.7 | 24.0 | 30.3 | 32.3 | 30.9 | 17.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P199935

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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 |
| 2.5° | 1680.0 | 1658.9 | 1614.0 | 1578.0 | 1532.6 | 1485.4 | 1458.9 | 1430.8 | 1411.4 | 1397.4 | 1419.8 |
| 5° | 1692.7 | 1649.6 | 1557.0 | 1469.0 | 1372.0 | 1270.9 | 1194.3 | 1122.9 | 1073.4 | 1042.6 | 1071.7 |
| 7.5° | 1712.8 | 1646.6 | 1499.0 | 1348.7 | 1174.4 | 1006.3 | 856.0 | 761.9 | 706.9 | 679.9 | 696.7 |
| 10° | 1736.0 | 1641.9 | 1431.1 | 1185.7 | 936.3 | 724.4 | 612.2 | 574.1 | 561.7 | 556.5 | 559.0 |
| 12.5° | 1755.4 | 1631.8 | 1347.6 | 988.5 | 703.1 | 572.1 | 539.6 | 538.7 | 541.5 | 542.0 | 542.9 |
| 15° | 1769.0 | 1616.9 | 1223.7 | 783.0 | 562.2 | 521.2 | 519.5 | 524.9 | 529.9 | 532.0 | 533.1 |
| 17.5° | 1778.2 | 1586.3 | 1083.9 | 619.0 | 503.6 | 496.6 | 500.7 | 507.6 | 513.0 | 514.4 | 515.6 |
| 20° | 1777.3 | 1541.5 | 917.2 | 516.2 | 472.0 | 472.0 | 479.1 | 484.4 | 484.8 | 482.9 | 483.8 |
| 22.5° | 1768.2 | 1480.0 | 755.6 | 461.5 | 443.7 | 448.8 | 455.9 | 450.9 | 430.1 | 416.4 | 417.3 |
| 25° | 1752.7 | 1406.7 | 617.2 | 426.7 | 417.6 | 426.5 | 424.5 | 386.4 | 356.7 | 343.4 | 343.4 |
| 27.5° | 1739.1 | 1320.0 | 510.9 | 396.5 | 391.4 | 402.5 | 365.6 | 331.2 | 318.7 | 312.5 | 310.4 |
| 30° | 1729.2 | 1226.3 | 439.9 | 367.4 | 366.8 | 358.8 | 317.2 | 307.7 | 305.6 | 300.6 | 298.9 |
| 32.5° | 1731.6 | 1131.6 | 394.4 | 341.9 | 343.9 | 307.1 | 294.0 | 296.1 | 294.4 | 289.0 | 286.6 |
| 35° | 1751.2 | 1041.7 | 364.7 | 318.7 | 312.5 | 277.4 | 280.4 | 284.3 | 283.6 | 276.2 | 273.8 |
| 37.5° | 1786.3 | 956.3 | 345.2 | 299.4 | 272.7 | 262.6 | 267.3 | 273.2 | 271.7 | 266.7 | 265.0 |
| 40° | 1823.1 | 876.1 | 329.1 | 284.3 | 249.2 | 252.5 | 256.6 | 259.9 | 261.3 | 262.9 | 261.6 |
| 42.5° | 1859.0 | 792.4 | 309.5 | 268.8 | 239.4 | 243.0 | 244.7 | 248.0 | 256.0 | 261.6 | 261.3 |
| 45° | 1880.5 | 713.7 | 289.3 | 246.8 | 231.6 | 233.7 | 232.6 | 239.1 | 248.9 | 258.1 | 258.4 |
| 47.5° | 1904.2 | 652.5 | 273.2 | 226.6 | 224.2 | 225.7 | 222.2 | 228.7 | 237.6 | 248.9 | 250.1 |
| 50° | 1933.1 | 616.0 | 260.5 | 210.6 | 214.1 | 214.1 | 213.3 | 219.2 | 231.6 | 244.7 | 247.2 |
| 52.5° | 1965.7 | 608.9 | 249.7 | 199.0 | 204.1 | 203.8 | 204.7 | 213.6 | 227.3 | 240.1 | 242.1 |
| 55° | 2005.5 | 628.2 | 238.1 | 190.4 | 194.3 | 195.5 | 198.5 | 208.4 | 220.0 | 234.7 | 235.6 |
| 57.5° | 2051.8 | 667.3 | 229.0 | 183.5 | 185.3 | 189.2 | 193.9 | 203.1 | 215.7 | 231.6 | 232.6 |
| 58° | 2059.5 | 675.7 | 227.5 | 183.0 | 183.5 | 188.0 | 193.4 | 202.2 | 214.7 | 232.2 | 233.2 |
| 60° | 2059.7 | 703.3 | 224.2 | 180.3 | 176.7 | 184.1 | 190.1 | 199.0 | 213.3 | 234.4 | 236.4 |
| 62.5° | 1986.8 | 703.1 | 221.9 | 176.5 | 169.6 | 178.8 | 185.6 | 196.0 | 211.8 | 239.4 | 243.5 |
| 65° | 1749.5 | 638.8 | 210.6 | 170.5 | 164.0 | 174.0 | 181.8 | 193.9 | 215.9 | 261.3 | 264.1 |
| 67.5° | 1368.4 | 523.7 | 189.4 | 162.1 | 156.6 | 169.4 | 179.4 | 193.6 | 220.3 | 266.4 | 268.2 |
| 70° | 904.6 | 391.8 | 166.3 | 152.6 | 148.8 | 163.7 | 180.6 | 203.8 | 215.3 | 255.7 | 251.0 |
| 72.5° | 469.6 | 275.0 | 147.6 | 140.8 | 139.9 | 158.7 | 197.8 | 202.5 | 210.4 | 240.6 | 234.7 |
| 75° | 246.5 | 190.9 | 131.3 | 127.8 | 129.3 | 157.5 | 233.5 | 197.2 | 203.8 | 230.2 | 241.5 |
| 77.5° | 150.9 | 154.2 | 117.4 | 115.9 | 118.8 | 153.8 | 233.2 | 190.4 | 194.3 | 211.8 | 224.2 |
| 80° | 100.9 | 125.0 | 106.6 | 107.0 | 109.0 | 140.8 | 209.4 | 179.7 | 182.7 | 200.2 | 212.9 |
| 82.5° | 63.8 | 74.0 | 96.8 | 101.8 | 99.2 | 116.2 | 177.9 | 163.7 | 167.8 | 229.0 | 242.1 |
| 85° | 32.3 | 46.3 | 84.0 | 98.0 | 89.4 | 81.4 | 144.3 | 143.4 | 145.6 | 165.1 | 172.5 |
| 87.5° | 14.9 | 25.5 | 65.7 | 85.5 | 67.4 | 50.8 | 104.9 | 106.3 | 114.6 | 117.4 | 117.4 |
| 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)