

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: P200178

Luminaire Tested: **GPC-AF-02-LED-E1-T2-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
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-T2-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13679.9 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

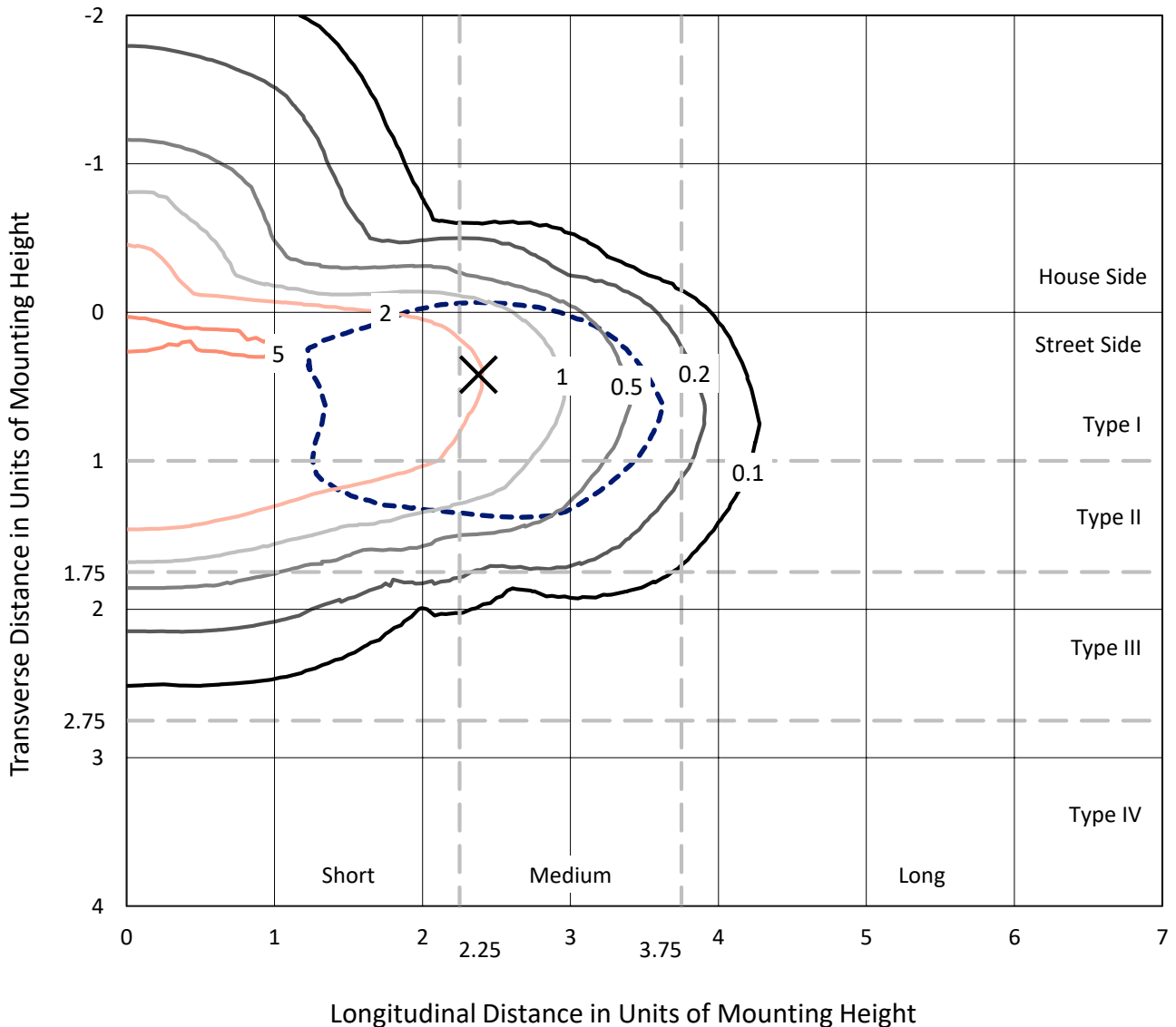
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

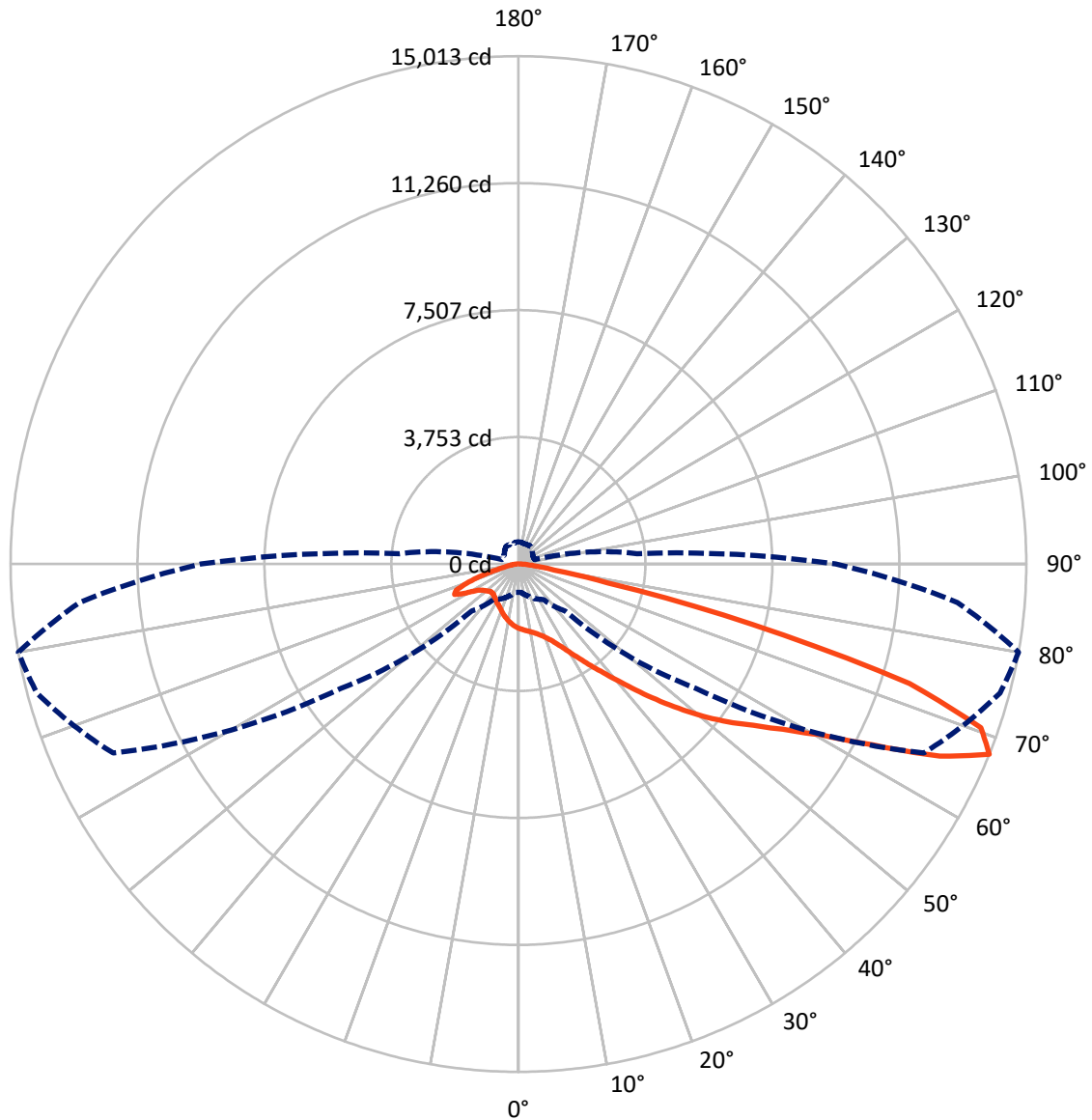
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2519.3 | 0.0 | 2519.3 |
| | % Fixture | 18.4 | 0.0 | 18.4 |
| Street Side | Lumens | 11160.6 | 0.0 | 11160.6 |
| | % Fixture | 81.6 | 0.0 | 81.6 |
| Total | Lumens | 13679.9 | 0.0 | 13679.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 175.3 | 1.3 |
| 10°-20° | 505.0 | 3.7 |
| 20°-30° | 835.9 | 6.1 |
| 30°-40° | 1367.4 | 10.0 |
| 40°-50° | 2207.8 | 16.1 |
| 50°-60° | 3187.4 | 23.3 |
| 60°-70° | 3517.5 | 25.7 |
| 70°-80° | 1621.3 | 11.9 |
| 80°-90° | 262.2 | 1.9 |
| 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° | 13679.9 | 100.0 |
| 0°-180° | 13679.9 | 100.0 |



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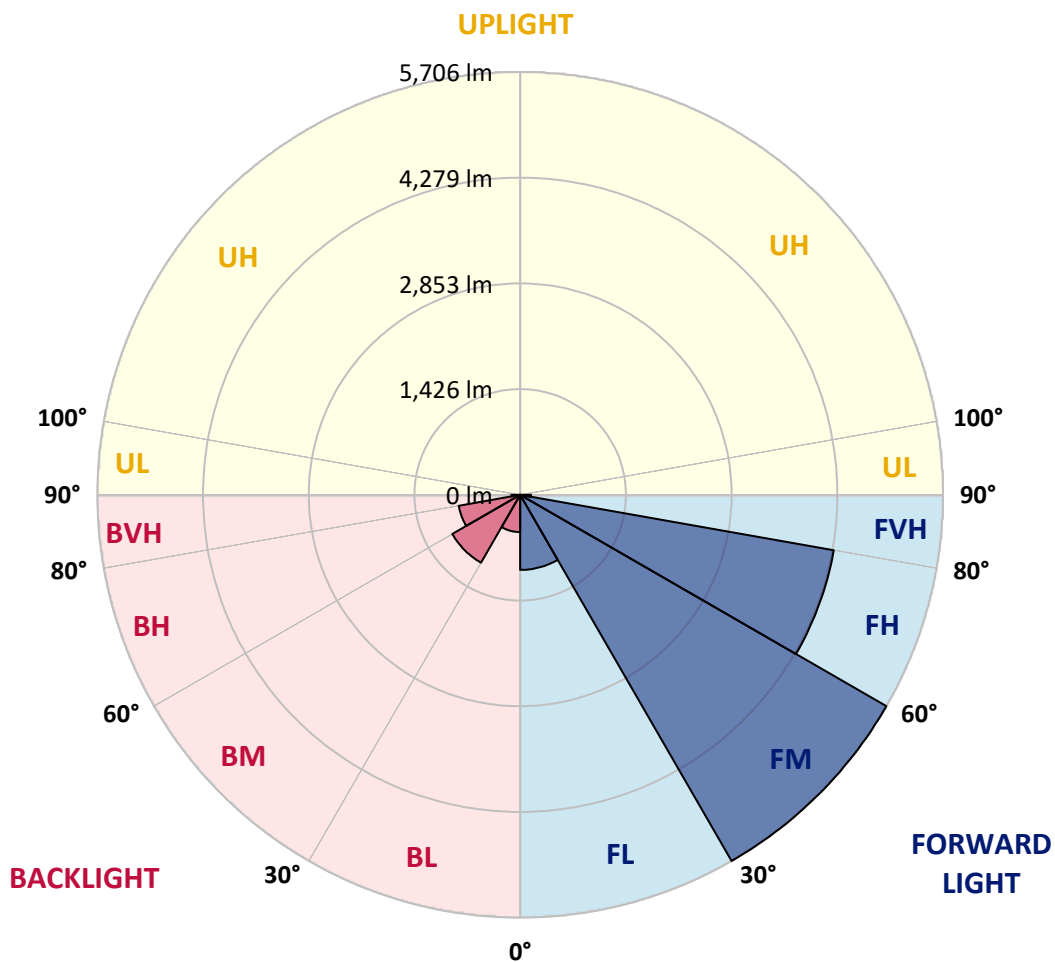
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1013.7 | 7.4 | | | |
| FM (30°-60°) | 5705.5 | 41.7 | | | |
| FH (60°-80°) | 4297.2 | 31.4 | | | G2/5000 |
| FVH (80°-90°) | 144.2 | 1.1 | | | G2/225 |
| BL (0°-30°) | 502.6 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 1057.0 | 7.7 | B2/2500 | | |
| BH (60°-80°) | 841.6 | 6.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 118.1 | 0.9 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 80° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 1900.5 | 1900.5 | 1900.5 | 1900.5 | 1900.5 | 1900.5 | 1900.5 | 1900.5 | 1900.5 | 1900.5 | 1900.5 |
| 2.5° | 2079.0 | 2066.9 | 2068.9 | 2065.5 | 2055.4 | 2037.9 | 2019.1 | 1984.7 | 1949.0 | 1930.2 | 1915.4 |
| 5° | 2252.7 | 2249.4 | 2244.7 | 2233.9 | 2208.3 | 2171.9 | 2126.8 | 2066.3 | 2000.9 | 1966.5 | 1933.6 |
| 7.5° | 2382.8 | 2380.7 | 2374.7 | 2367.9 | 2343.0 | 2299.2 | 2231.3 | 2145.0 | 2050.1 | 2002.9 | 1951.7 |
| 10° | 2393.5 | 2396.9 | 2401.6 | 2419.8 | 2423.2 | 2399.5 | 2330.2 | 2225.8 | 2101.2 | 2040.6 | 1975.3 |
| 12.5° | 2301.9 | 2309.3 | 2327.5 | 2374.0 | 2423.2 | 2452.1 | 2416.4 | 2310.6 | 2161.2 | 2087.7 | 2004.9 |
| 15° | 2180.7 | 2184.7 | 2207.0 | 2271.0 | 2359.1 | 2448.7 | 2482.4 | 2404.3 | 2238.6 | 2148.4 | 2049.4 |
| 17.5° | 2128.9 | 2130.9 | 2146.4 | 2188.8 | 2271.0 | 2398.9 | 2519.4 | 2506.0 | 2333.6 | 2223.8 | 2103.9 |
| 20° | 2102.6 | 2107.3 | 2129.5 | 2171.3 | 2223.2 | 2334.9 | 2524.8 | 2615.8 | 2446.7 | 2318.1 | 2172.6 |
| 22.5° | 2177.4 | 2175.3 | 2183.4 | 2204.3 | 2248.0 | 2315.3 | 2520.9 | 2728.9 | 2590.8 | 2439.3 | 2262.2 |
| 25° | 2351.8 | 2359.1 | 2345.0 | 2321.5 | 2335.6 | 2382.8 | 2542.3 | 2851.5 | 2771.4 | 2594.9 | 2379.4 |
| 27.5° | 2600.2 | 2592.9 | 2572.0 | 2516.8 | 2487.8 | 2508.0 | 2613.7 | 2983.4 | 2995.6 | 2799.6 | 2534.3 |
| 30° | 2848.1 | 2842.1 | 2821.8 | 2754.5 | 2695.3 | 2678.4 | 2752.5 | 3135.0 | 3263.0 | 3045.4 | 2724.2 |
| 32.5° | 3105.4 | 3098.6 | 3079.8 | 3012.5 | 2941.1 | 2902.0 | 2949.8 | 3310.2 | 3578.2 | 3339.1 | 2947.8 |
| 35° | 3422.6 | 3409.8 | 3370.0 | 3276.4 | 3206.4 | 3176.1 | 3198.4 | 3530.3 | 3941.8 | 3686.6 | 3219.2 |
| 37.5° | 3721.0 | 3740.4 | 3700.0 | 3570.7 | 3479.9 | 3469.0 | 3494.0 | 3799.0 | 4333.8 | 4075.2 | 3531.0 |
| 40° | 4020.6 | 4024.0 | 3987.7 | 3881.9 | 3788.3 | 3770.8 | 3833.4 | 4125.0 | 4796.5 | 4539.9 | 3910.2 |
| 42.5° | 4330.5 | 4337.2 | 4275.8 | 4178.2 | 4109.5 | 4112.9 | 4184.3 | 4506.9 | 5327.1 | 5087.4 | 4346.6 |
| 45° | 4697.5 | 4707.6 | 4640.2 | 4512.2 | 4449.6 | 4575.6 | 4545.9 | 4935.2 | 5909.1 | 5709.7 | 4847.7 |
| 47.5° | 5081.3 | 5096.9 | 5045.7 | 4925.8 | 4847.7 | 5020.7 | 4907.6 | 5410.0 | 6535.3 | 6377.1 | 5397.9 |
| 50° | 5290.8 | 5313.0 | 5362.8 | 5354.1 | 5337.2 | 5308.3 | 5311.0 | 5919.1 | 7181.2 | 7072.2 | 5963.6 |
| 52.5° | 5178.3 | 5177.7 | 5359.4 | 5580.4 | 5816.1 | 5833.6 | 5802.7 | 6455.9 | 7784.7 | 7751.7 | 6496.4 |
| 55° | 4663.8 | 4698.8 | 4974.3 | 5401.9 | 6045.7 | 6447.9 | 6539.4 | 7070.7 | 8377.4 | 8415.7 | 7037.1 |
| 57.5° | 3807.1 | 3836.1 | 4207.8 | 4803.9 | 5736.0 | 6812.9 | 7587.3 | 7964.5 | 9040.0 | 9219.1 | 7757.0 |
| 60° | 2582.1 | 2617.1 | 3011.1 | 3727.0 | 4902.2 | 6609.5 | 8584.7 | 9559.3 | 9833.3 | 10240.9 | 8767.3 |
| 62.5° | 1517.3 | 1549.0 | 1870.3 | 2351.0 | 3451.5 | 5664.6 | 9022.5 | 11828.2 | 11093.4 | 11782.3 | 10308.2 |
| 65° | 1044.5 | 1066.1 | 1222.3 | 1463.4 | 1983.4 | 3815.2 | 8479.6 | 13394.7 | 13032.4 | 13692.4 | 12094.9 |
| 67.5° | 840.5 | 837.8 | 961.7 | 1126.1 | 1276.9 | 1967.2 | 6412.2 | 13217.5 | 14737.6 | 15013.0 | 13022.3 |
| 70° | 692.3 | 689.7 | 773.9 | 909.8 | 1020.3 | 1107.9 | 3492.7 | 11154.1 | 14390.1 | 14501.9 | 12168.3 |
| 72.5° | 579.2 | 581.9 | 635.8 | 736.7 | 837.1 | 834.4 | 1534.8 | 7846.6 | 11320.4 | 12093.5 | 9700.0 |
| 75° | 489.0 | 490.3 | 526.0 | 597.4 | 679.5 | 672.1 | 832.4 | 4251.0 | 6580.5 | 7118.6 | 5377.0 |
| 77.5° | 416.2 | 417.6 | 440.5 | 480.2 | 538.8 | 536.1 | 607.4 | 1836.6 | 2745.1 | 2711.4 | 1839.3 |
| 80° | 371.1 | 371.1 | 381.9 | 389.2 | 421.6 | 409.5 | 450.5 | 882.3 | 1160.4 | 1071.5 | 734.1 |
| 82.5° | 290.9 | 292.3 | 358.2 | 355.6 | 332.0 | 316.5 | 316.5 | 520.0 | 614.9 | 568.5 | 429.6 |
| 85° | 163.7 | 163.0 | 231.0 | 278.9 | 292.3 | 222.9 | 220.9 | 290.9 | 334.7 | 295.0 | 208.1 |
| 87.5° | 70.1 | 71.4 | 107.1 | 123.9 | 165.7 | 138.7 | 136.7 | 150.2 | 170.4 | 147.5 | 96.3 |
| 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° | 1900.5 | 1900.5 | 1900.5 | 1900.5 | 1900.5 | 1900.5 | 1900.5 | 1900.5 | 1900.5 | 1900.5 | 1900.5 |
| 2.5° | 1901.3 | 1883.7 | 1845.3 | 1797.5 | 1754.4 | 1726.1 | 1700.6 | 1663.5 | 1665.5 | 1639.9 | 1621.1 |
| 5° | 1899.8 | 1863.5 | 1774.6 | 1668.8 | 1567.2 | 1493.7 | 1438.6 | 1388.7 | 1376.6 | 1353.1 | 1338.8 |
| 7.5° | 1901.3 | 1841.9 | 1692.5 | 1523.4 | 1397.5 | 1304.5 | 1257.4 | 1231.1 | 1225.1 | 1217.0 | 1217.6 |
| 10° | 1906.0 | 1822.4 | 1602.1 | 1387.3 | 1255.4 | 1194.1 | 1182.6 | 1190.7 | 1200.1 | 1202.8 | 1203.5 |
| 12.5° | 1916.7 | 1804.9 | 1503.2 | 1266.1 | 1166.5 | 1147.5 | 1167.1 | 1194.7 | 1212.9 | 1221.7 | 1221.0 |
| 15° | 1940.9 | 1791.4 | 1408.2 | 1171.2 | 1117.3 | 1127.4 | 1163.8 | 1202.8 | 1229.1 | 1241.2 | 1241.9 |
| 17.5° | 1967.2 | 1772.0 | 1310.6 | 1098.4 | 1081.0 | 1106.5 | 1151.6 | 1197.5 | 1229.8 | 1243.2 | 1246.0 |
| 20° | 2001.6 | 1747.7 | 1208.2 | 1043.9 | 1046.6 | 1075.5 | 1118.0 | 1163.8 | 1199.4 | 1210.9 | 1216.3 |
| 22.5° | 2046.7 | 1721.4 | 1118.6 | 999.4 | 1007.5 | 1029.7 | 1062.7 | 1102.4 | 1133.4 | 1138.9 | 1143.6 |
| 25° | 2107.3 | 1693.1 | 1047.3 | 959.0 | 962.4 | 975.2 | 997.4 | 1021.0 | 1042.5 | 1036.5 | 1041.2 |
| 27.5° | 2188.8 | 1668.8 | 994.0 | 922.0 | 916.0 | 918.6 | 930.1 | 937.4 | 948.9 | 932.1 | 934.1 |
| 30° | 2284.5 | 1642.6 | 953.0 | 889.7 | 872.8 | 868.1 | 870.8 | 874.8 | 883.6 | 860.7 | 857.3 |
| 32.5° | 2395.5 | 1610.9 | 914.6 | 861.3 | 837.8 | 828.4 | 829.7 | 840.5 | 874.2 | 860.0 | 852.6 |
| 35° | 2524.8 | 1575.2 | 874.2 | 830.4 | 814.3 | 800.8 | 799.4 | 833.1 | 933.4 | 924.6 | 917.9 |
| 37.5° | 2676.3 | 1539.5 | 833.8 | 795.3 | 796.7 | 781.9 | 777.2 | 815.6 | 944.9 | 910.5 | 905.8 |
| 40° | 2869.0 | 1520.7 | 799.4 | 758.3 | 775.2 | 773.1 | 763.7 | 783.3 | 869.4 | 806.8 | 798.7 |
| 42.5° | 3107.4 | 1523.4 | 773.9 | 718.6 | 749.6 | 771.1 | 756.3 | 757.0 | 788.0 | 740.8 | 733.5 |
| 45° | 3401.7 | 1555.1 | 755.7 | 686.9 | 720.6 | 769.1 | 753.6 | 742.9 | 745.5 | 720.6 | 716.6 |
| 47.5° | 3745.2 | 1620.4 | 742.9 | 660.7 | 693.0 | 761.7 | 752.9 | 738.8 | 732.7 | 719.2 | 715.9 |
| 50° | 4127.0 | 1715.3 | 733.5 | 635.8 | 668.1 | 749.6 | 753.6 | 734.8 | 728.0 | 722.6 | 720.6 |
| 52.5° | 4502.2 | 1823.7 | 719.2 | 614.2 | 648.6 | 734.8 | 755.7 | 730.7 | 723.3 | 719.2 | 717.3 |
| 55° | 4920.4 | 1959.2 | 697.8 | 596.1 | 632.4 | 715.9 | 755.7 | 724.7 | 716.6 | 717.3 | 716.6 |
| 57.5° | 5485.5 | 2178.0 | 672.1 | 580.5 | 612.8 | 693.0 | 742.9 | 717.9 | 707.8 | 708.5 | 709.2 |
| 60° | 6368.4 | 2563.9 | 641.2 | 565.1 | 588.6 | 666.0 | 725.4 | 703.1 | 693.0 | 695.7 | 696.3 |
| 62.5° | 7666.8 | 3130.3 | 600.8 | 542.2 | 563.0 | 637.1 | 701.1 | 684.3 | 674.1 | 680.9 | 680.9 |
| 65° | 9016.5 | 3630.0 | 550.9 | 513.2 | 536.1 | 605.5 | 670.7 | 660.7 | 650.6 | 666.0 | 665.4 |
| 67.5° | 9379.4 | 3518.2 | 501.0 | 481.5 | 509.1 | 570.4 | 634.4 | 629.0 | 623.6 | 650.6 | 649.3 |
| 70° | 8332.2 | 2824.6 | 455.3 | 449.2 | 479.6 | 532.8 | 595.4 | 595.4 | 592.0 | 612.2 | 607.4 |
| 72.5° | 6348.1 | 2002.9 | 411.5 | 414.9 | 445.8 | 491.6 | 552.9 | 557.6 | 552.3 | 562.3 | 558.3 |
| 75° | 3398.3 | 1146.2 | 367.8 | 377.2 | 404.1 | 449.9 | 505.7 | 510.5 | 507.1 | 506.5 | 508.5 |
| 77.5° | 1129.4 | 560.4 | 321.9 | 336.8 | 360.3 | 406.8 | 456.6 | 464.0 | 455.9 | 454.6 | 453.9 |
| 80° | 503.1 | 352.2 | 271.4 | 290.9 | 311.8 | 357.6 | 404.8 | 410.8 | 402.0 | 414.2 | 398.7 |
| 82.5° | 323.3 | 231.7 | 217.6 | 239.1 | 259.3 | 308.4 | 352.9 | 354.2 | 346.2 | 402.0 | 342.8 |
| 85° | 156.9 | 143.4 | 163.7 | 183.2 | 200.7 | 242.4 | 292.3 | 293.0 | 272.7 | 248.5 | 239.8 |
| 87.5° | 78.2 | 83.5 | 109.1 | 126.6 | 135.3 | 166.3 | 212.8 | 208.8 | 200.0 | 181.9 | 167.7 |
| 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)