

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: LUMARK

Report Number: P380927

Luminaire Tested: **PRV-PA2B-730-U-T3**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P380927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA2B-730-U-T3
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17911 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

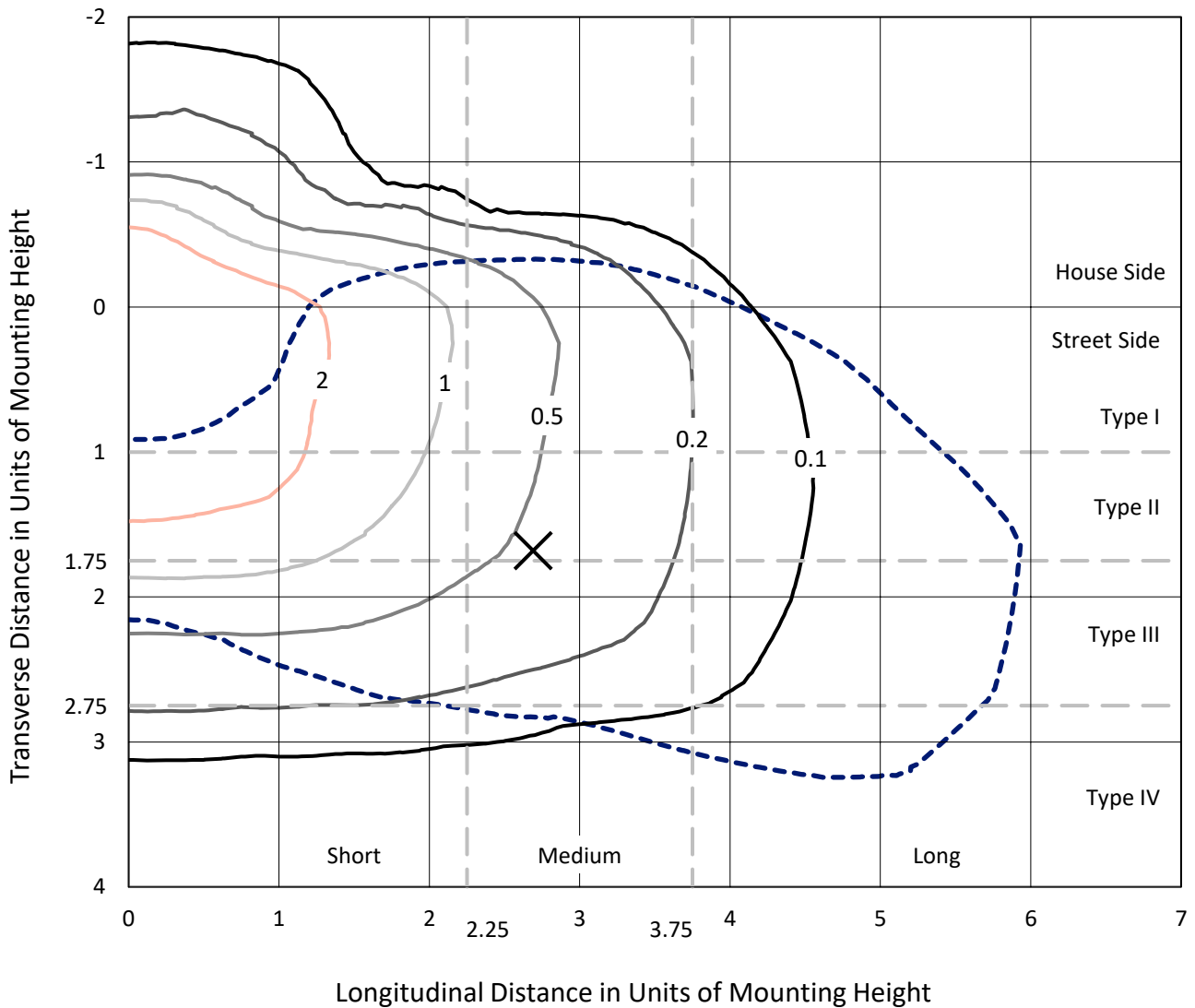
Input Watts (W): 151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P380927
 CATALOG NUMBER: PRV-PA2B-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

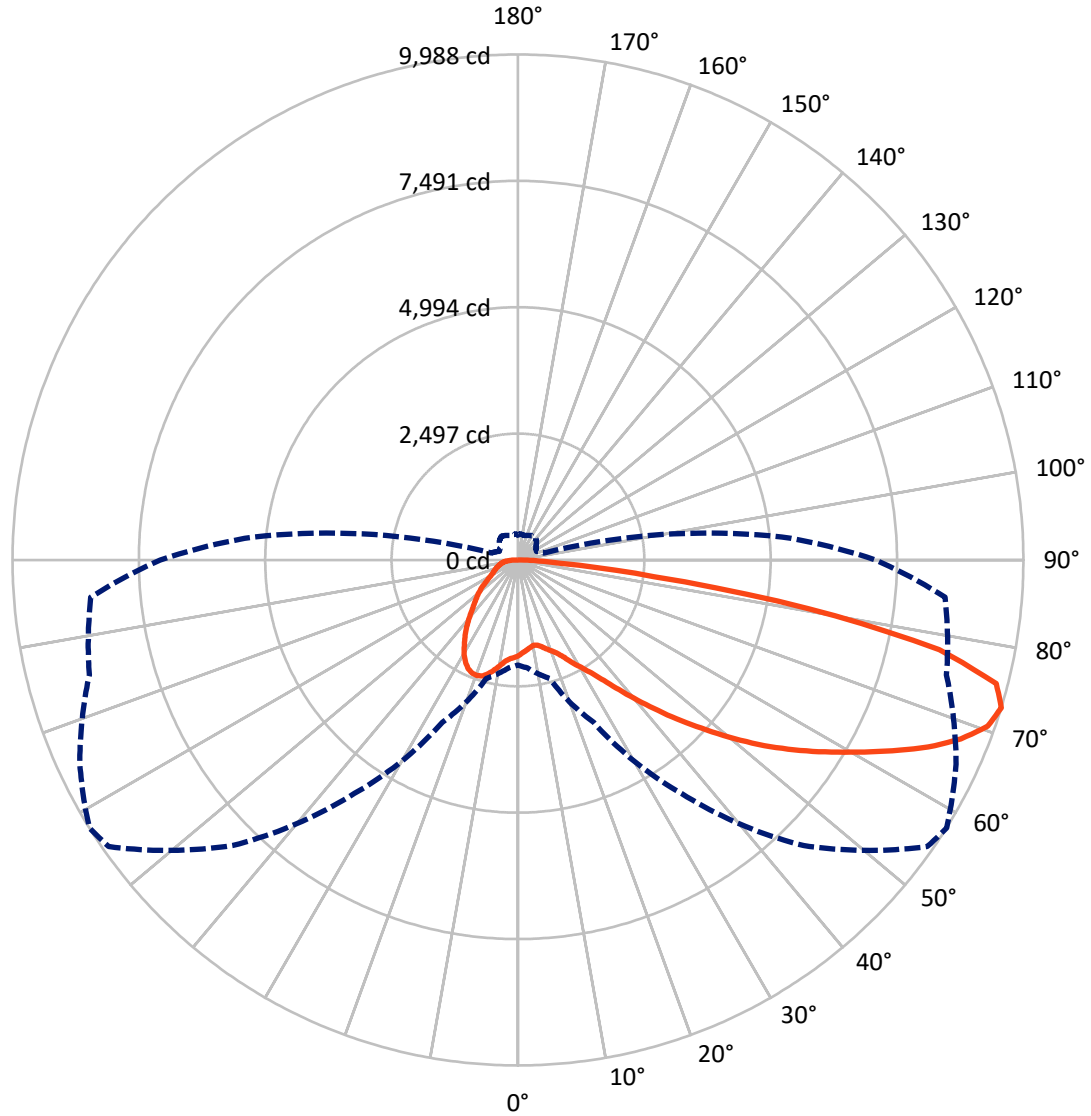
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Medium - N/A

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CATALOG NUMBER: PRV-PA2B-730-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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 CATALOG NUMBER: PRV-PA2B-730-U-T3

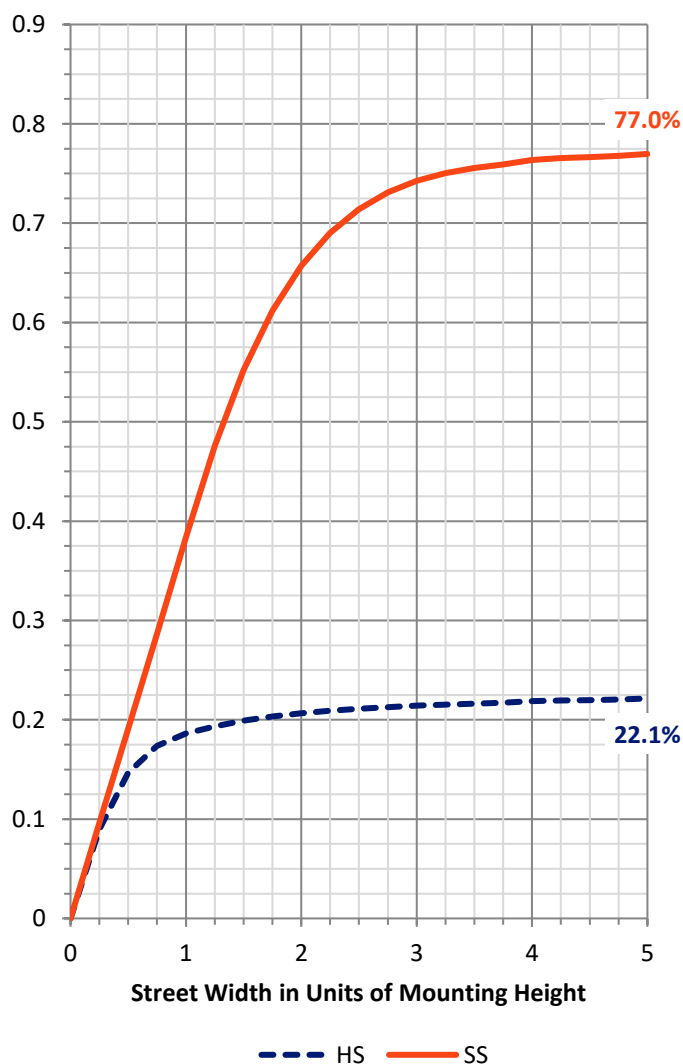
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4062.0 | 0.0 | 4062.0 |
| | % Fixture | 22.7 | 0.0 | 22.7 |
| Street Side | Lumens | 13849.0 | 0.0 | 13849.0 |
| | % Fixture | 77.3 | 0.0 | 77.3 |
| Total | Lumens | 17911.0 | 0.0 | 17911.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 182.0 | 1.0 |
| 10°-20° | 578.0 | 3.2 |
| 20°-30° | 1035.3 | 5.8 |
| 30°-40° | 1557.4 | 8.7 |
| 40°-50° | 2522.0 | 14.1 |
| 50°-60° | 3796.4 | 21.2 |
| 60°-70° | 4468.0 | 24.9 |
| 70°-80° | 3168.2 | 17.7 |
| 80°-90° | 603.7 | 3.4 |
| 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° | 17911.0 | 100.0 |
| 0°-180° | 17911.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P380927

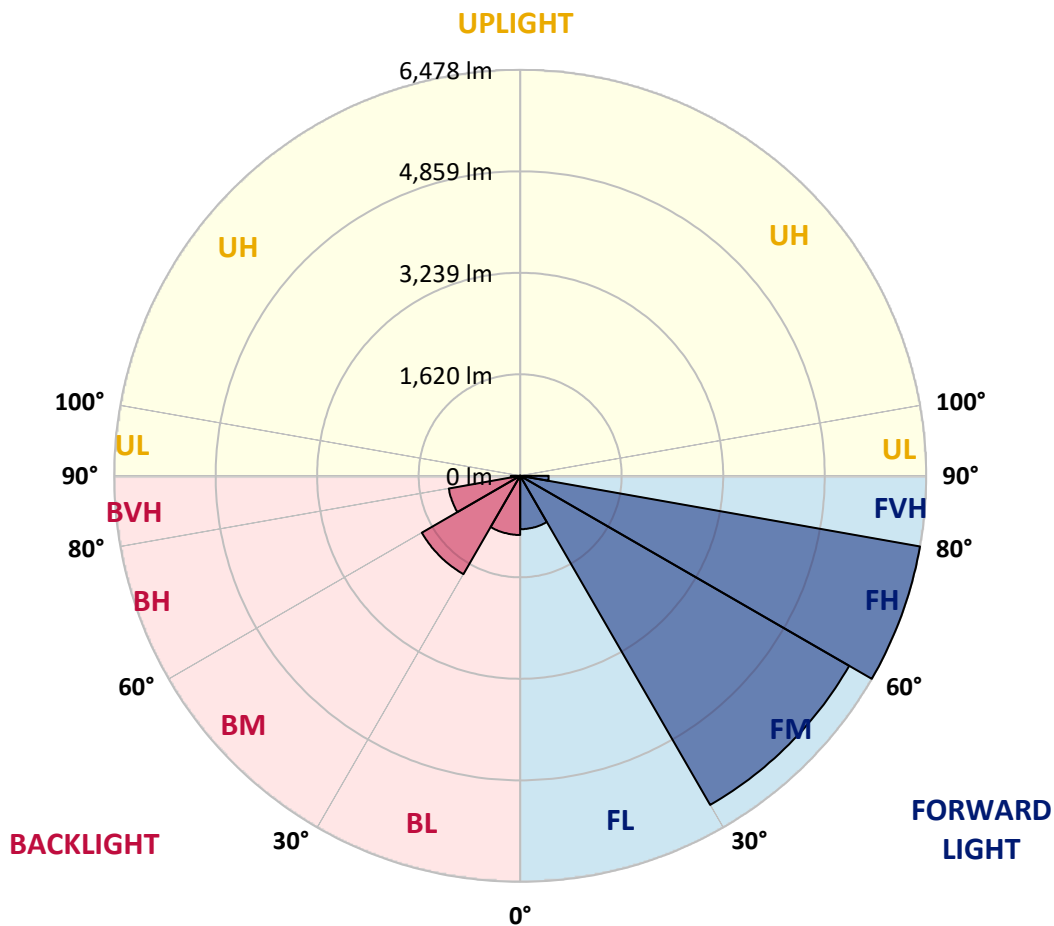
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 851.7 | 4.8 | | | |
| FM (30°-60°) | 6063.4 | 33.9 | | | |
| FH (60°-80°) | 6478.5 | 36.2 | | | G3/7500 |
| FVH (80°-90°) | 455.4 | 2.5 | | | G3/500 |
| BL (0°-30°) | 943.5 | 5.3 | B2/1000 | | |
| BM (30°-60°) | 1812.4 | 10.1 | B2/2500 | | |
| BH (60°-80°) | 1157.7 | 6.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 148.3 | 0.8 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type IV Medium





REPORT NUMBER: P380927

CATALOG NUMBER: PRV-PA2B-730-U-T3

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1889.2 | 1889.2 | 1889.2 | 1889.2 | 1889.2 | 1889.2 | 1889.2 | 1889.2 | 1889.2 | 1889.2 | 1889.2 |
| 2.5° | 1818.3 | 1808.8 | 1811.2 | 1811.2 | 1820.7 | 1825.4 | 1827.8 | 1834.8 | 1839.6 | 1851.4 | 1867.9 |
| 5° | 1733.2 | 1726.1 | 1728.4 | 1730.8 | 1747.4 | 1763.9 | 1778.1 | 1787.6 | 1801.7 | 1820.7 | 1844.3 |
| 7.5° | 1671.7 | 1667.0 | 1669.3 | 1674.1 | 1688.2 | 1707.2 | 1730.8 | 1745.0 | 1766.3 | 1801.7 | 1841.9 |
| 10° | 1626.8 | 1626.8 | 1629.1 | 1638.6 | 1652.8 | 1676.4 | 1695.3 | 1711.9 | 1754.5 | 1818.3 | 1879.8 |
| 12.5° | 1591.3 | 1591.3 | 1598.4 | 1617.3 | 1641.0 | 1664.6 | 1709.5 | 1728.4 | 1785.2 | 1872.7 | 1946.0 |
| 15° | 1588.9 | 1591.3 | 1593.7 | 1610.2 | 1636.2 | 1688.2 | 1754.5 | 1782.8 | 1851.4 | 1955.4 | 2040.6 |
| 17.5° | 1626.8 | 1629.1 | 1619.7 | 1624.4 | 1655.1 | 1728.4 | 1815.9 | 1849.0 | 1936.5 | 2050.0 | 2137.5 |
| 20° | 1742.6 | 1742.6 | 1714.3 | 1688.2 | 1709.5 | 1789.9 | 1889.2 | 1922.3 | 2019.3 | 2144.6 | 2232.1 |
| 22.5° | 1979.1 | 1990.9 | 1924.7 | 1867.9 | 1834.8 | 1879.8 | 1969.6 | 2005.1 | 2113.9 | 2248.6 | 2336.1 |
| 25° | 2265.2 | 2277.0 | 2187.2 | 2106.8 | 2045.3 | 2038.2 | 2097.3 | 2135.1 | 2225.0 | 2364.5 | 2437.8 |
| 27.5° | 2541.8 | 2520.5 | 2437.8 | 2362.1 | 2284.1 | 2220.3 | 2265.2 | 2298.3 | 2402.3 | 2508.7 | 2553.7 |
| 30° | 2759.4 | 2742.8 | 2662.4 | 2608.0 | 2534.7 | 2452.0 | 2426.0 | 2461.4 | 2546.6 | 2645.9 | 2669.5 |
| 32.5° | 3000.5 | 2988.7 | 2908.3 | 2837.4 | 2775.9 | 2697.9 | 2641.1 | 2657.7 | 2705.0 | 2775.9 | 2790.1 |
| 35° | 3307.9 | 3333.9 | 3248.8 | 3104.6 | 3036.0 | 2960.3 | 2920.1 | 2924.9 | 2960.3 | 3005.3 | 2981.6 |
| 37.5° | 3631.9 | 3662.6 | 3667.3 | 3440.3 | 3348.1 | 3279.6 | 3237.0 | 3253.5 | 3296.1 | 3326.8 | 3253.5 |
| 40° | 4232.4 | 4201.7 | 4078.8 | 3910.9 | 3769.0 | 3702.8 | 3643.7 | 3641.3 | 3672.1 | 3726.4 | 3594.0 |
| 42.5° | 5029.3 | 5000.9 | 4752.6 | 4535.1 | 4310.5 | 4234.8 | 4118.9 | 4069.3 | 4083.5 | 4152.0 | 3967.6 |
| 45° | 5793.0 | 5781.2 | 5582.6 | 5329.6 | 5060.0 | 4913.4 | 4648.6 | 4528.0 | 4516.2 | 4570.6 | 4350.7 |
| 47.5° | 6471.6 | 6419.6 | 6275.4 | 6079.1 | 6050.7 | 5667.7 | 5180.6 | 5017.5 | 4960.7 | 4991.4 | 4745.5 |
| 50° | 7197.5 | 7020.2 | 6821.6 | 6701.0 | 6906.7 | 6549.6 | 5717.3 | 5547.1 | 5407.6 | 5428.9 | 5173.5 |
| 52.5° | 7582.9 | 7285.0 | 7155.0 | 7190.4 | 7467.1 | 7329.9 | 6301.4 | 6093.3 | 5868.7 | 5899.4 | 5599.1 |
| 55° | 7251.9 | 7249.5 | 7306.3 | 7526.2 | 7911.6 | 7753.2 | 6857.0 | 6622.9 | 6377.0 | 6384.1 | 6088.6 |
| 57.5° | 6797.9 | 6890.1 | 7183.3 | 7668.1 | 8462.5 | 8197.7 | 7403.2 | 7155.0 | 6930.3 | 6894.9 | 6644.2 |
| 60° | 6384.1 | 6485.8 | 6911.4 | 7644.4 | 8654.0 | 8604.4 | 7923.4 | 7705.9 | 7523.8 | 7419.8 | 7228.3 |
| 62.5° | 5755.2 | 5830.8 | 6433.8 | 7493.1 | 8493.3 | 8897.6 | 8450.7 | 8301.7 | 8164.6 | 7949.4 | 7857.2 |
| 65° | 5015.1 | 5041.1 | 5677.1 | 6994.2 | 8292.3 | 9011.1 | 8975.6 | 8909.4 | 8777.0 | 8460.2 | 8479.1 |
| 67.5° | 4213.5 | 4265.5 | 4823.6 | 6197.3 | 7852.5 | 8959.1 | 9382.3 | 9436.7 | 9280.6 | 8805.4 | 8876.3 |
| 70° | 3359.9 | 3423.8 | 3847.0 | 5095.5 | 7105.3 | 8734.4 | 9758.3 | 9845.7 | 9545.5 | 8918.9 | 8949.6 |
| 72.5° | 2078.4 | 2139.9 | 2423.6 | 3539.6 | 5632.2 | 7980.2 | 9874.1 | 9987.6 | 9552.6 | 8767.5 | 8472.0 |
| 75° | 718.8 | 725.9 | 948.2 | 1697.7 | 3343.4 | 6024.7 | 9495.8 | 9763.0 | 9252.3 | 8216.6 | 7372.5 |
| 77.5° | 328.7 | 340.5 | 420.9 | 699.9 | 1482.5 | 3251.2 | 7840.7 | 8509.8 | 8339.6 | 7355.9 | 5674.8 |
| 80° | 227.0 | 231.7 | 290.8 | 418.5 | 855.9 | 1144.4 | 4948.9 | 5821.4 | 6119.3 | 5696.1 | 3636.6 |
| 82.5° | 170.2 | 175.0 | 224.6 | 283.7 | 617.1 | 555.7 | 1884.5 | 2705.0 | 3362.3 | 3300.8 | 1520.4 |
| 85° | 163.2 | 160.8 | 175.0 | 189.2 | 411.4 | 331.0 | 610.0 | 837.0 | 1312.3 | 1123.1 | 383.0 |
| 87.5° | 70.9 | 78.0 | 179.7 | 106.4 | 215.2 | 153.7 | 264.8 | 309.7 | 399.6 | 347.6 | 137.1 |
| 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: P380927
 CATALOG NUMBER: PRV-PA2B-730-U-T3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1889.2 | 1889.2 | 1889.2 | 1889.2 | 1889.2 | 1889.2 | 1889.2 | 1889.2 | 1889.2 | 1889.2 | 1889.2 |
| 2.5° | 1875.0 | 1879.8 | 1894.0 | 1915.2 | 1927.1 | 1950.7 | 1967.3 | 1976.7 | 1983.8 | 1986.2 | 1986.2 |
| 5° | 1858.5 | 1867.9 | 1898.7 | 1934.2 | 1967.3 | 2016.9 | 2061.8 | 2087.8 | 2106.8 | 2113.9 | 2116.2 |
| 7.5° | 1863.2 | 1886.9 | 1931.8 | 1983.8 | 2026.4 | 2090.2 | 2144.6 | 2196.6 | 2239.2 | 2255.7 | 2255.7 |
| 10° | 1908.1 | 1941.2 | 2002.7 | 2071.3 | 2125.7 | 2191.9 | 2248.6 | 2293.6 | 2343.2 | 2371.6 | 2376.3 |
| 12.5° | 1976.7 | 2016.9 | 2097.3 | 2173.0 | 2234.4 | 2286.5 | 2338.5 | 2371.6 | 2395.2 | 2416.5 | 2421.2 |
| 15° | 2073.7 | 2123.3 | 2203.7 | 2281.7 | 2336.1 | 2369.2 | 2383.4 | 2383.4 | 2381.0 | 2383.4 | 2388.1 |
| 17.5° | 2170.6 | 2217.9 | 2298.3 | 2376.3 | 2402.3 | 2383.4 | 2366.9 | 2362.1 | 2359.8 | 2355.0 | 2357.4 |
| 20° | 2265.2 | 2310.1 | 2378.7 | 2437.8 | 2416.5 | 2350.3 | 2329.0 | 2326.7 | 2319.6 | 2314.8 | 2310.1 |
| 22.5° | 2359.8 | 2392.9 | 2449.6 | 2470.9 | 2385.8 | 2291.2 | 2265.2 | 2251.0 | 2241.5 | 2229.7 | 2217.9 |
| 25° | 2468.5 | 2478.0 | 2520.5 | 2487.4 | 2310.1 | 2182.4 | 2144.6 | 2123.3 | 2113.9 | 2102.0 | 2092.6 |
| 27.5° | 2570.2 | 2570.2 | 2577.3 | 2461.4 | 2199.0 | 2038.2 | 1981.4 | 1943.6 | 1941.2 | 1938.9 | 1936.5 |
| 30° | 2662.4 | 2650.6 | 2627.0 | 2383.4 | 2054.7 | 1860.9 | 1775.7 | 1737.9 | 1752.1 | 1763.9 | 1766.3 |
| 32.5° | 2771.2 | 2747.5 | 2681.3 | 2277.0 | 1882.1 | 1662.2 | 1558.2 | 1541.6 | 1558.2 | 1572.4 | 1562.9 |
| 35° | 2941.4 | 2898.9 | 2738.1 | 2154.1 | 1716.6 | 1480.2 | 1380.9 | 1357.2 | 1352.5 | 1350.1 | 1331.2 |
| 37.5° | 3185.0 | 3111.7 | 2783.0 | 2021.6 | 1553.5 | 1319.4 | 1246.1 | 1196.4 | 1151.5 | 1104.2 | 1097.1 |
| 40° | 3482.9 | 3357.6 | 2813.7 | 1870.3 | 1380.9 | 1184.6 | 1106.6 | 1042.7 | 967.1 | 884.3 | 874.9 |
| 42.5° | 3809.2 | 3622.4 | 2827.9 | 1702.4 | 1229.5 | 1073.5 | 976.5 | 896.1 | 811.0 | 747.2 | 735.4 |
| 45° | 4161.5 | 3908.5 | 2816.1 | 1541.6 | 1106.6 | 978.9 | 870.1 | 782.6 | 714.1 | 669.2 | 659.7 |
| 47.5° | 4504.4 | 4237.2 | 2783.0 | 1414.0 | 1012.0 | 898.5 | 787.4 | 707.0 | 655.0 | 605.3 | 593.5 |
| 50° | 4944.2 | 4551.6 | 2742.8 | 1314.7 | 908.0 | 818.1 | 735.4 | 650.2 | 591.1 | 567.5 | 562.7 |
| 52.5° | 5431.2 | 4866.1 | 2695.5 | 1189.3 | 806.3 | 754.3 | 702.3 | 626.6 | 607.7 | 562.7 | 555.7 |
| 55° | 5958.5 | 5239.7 | 2686.1 | 1030.9 | 716.4 | 709.3 | 669.2 | 647.9 | 652.6 | 562.7 | 550.9 |
| 57.5° | 6514.2 | 5639.3 | 2707.3 | 872.5 | 643.1 | 669.2 | 683.3 | 666.8 | 659.7 | 574.6 | 550.9 |
| 60° | 7093.5 | 6024.7 | 2643.5 | 725.9 | 586.4 | 636.0 | 699.9 | 657.3 | 605.3 | 569.8 | 553.3 |
| 62.5° | 7656.2 | 6348.7 | 2366.9 | 621.9 | 543.8 | 626.6 | 690.4 | 621.9 | 562.7 | 562.7 | 555.7 |
| 65° | 8065.3 | 6492.9 | 1851.4 | 546.2 | 515.5 | 614.8 | 673.9 | 598.2 | 550.9 | 567.5 | 558.0 |
| 67.5° | 8112.6 | 6343.9 | 1243.7 | 487.1 | 491.8 | 593.5 | 636.0 | 576.9 | 539.1 | 581.7 | 567.5 |
| 70° | 7821.7 | 5956.2 | 761.4 | 442.2 | 461.1 | 555.7 | 602.9 | 555.7 | 522.6 | 569.8 | 548.6 |
| 72.5° | 7067.5 | 5232.6 | 536.7 | 404.3 | 428.0 | 520.2 | 572.2 | 536.7 | 498.9 | 515.5 | 494.2 |
| 75° | 5797.7 | 4055.1 | 425.6 | 368.9 | 394.9 | 487.1 | 546.2 | 508.4 | 470.5 | 463.4 | 449.3 |
| 77.5° | 4107.1 | 2598.6 | 342.9 | 340.5 | 359.4 | 446.9 | 510.7 | 475.3 | 437.4 | 423.2 | 413.8 |
| 80° | 2362.1 | 1274.5 | 295.6 | 307.4 | 326.3 | 406.7 | 468.2 | 437.4 | 402.0 | 380.7 | 366.5 |
| 82.5° | 903.2 | 444.5 | 260.1 | 267.2 | 288.5 | 364.1 | 425.6 | 399.6 | 364.1 | 383.0 | 321.6 |
| 85° | 293.2 | 243.5 | 212.8 | 219.9 | 241.2 | 302.7 | 376.0 | 354.7 | 314.5 | 279.0 | 257.7 |
| 87.5° | 130.0 | 132.4 | 113.5 | 125.3 | 151.3 | 201.0 | 274.3 | 260.1 | 229.4 | 191.5 | 184.4 |
| 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)