

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: P381309

Luminaire Tested: **PRV-PA1B-730-U-T4W-HSS**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381309  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-PA1B-730-U-T4W-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

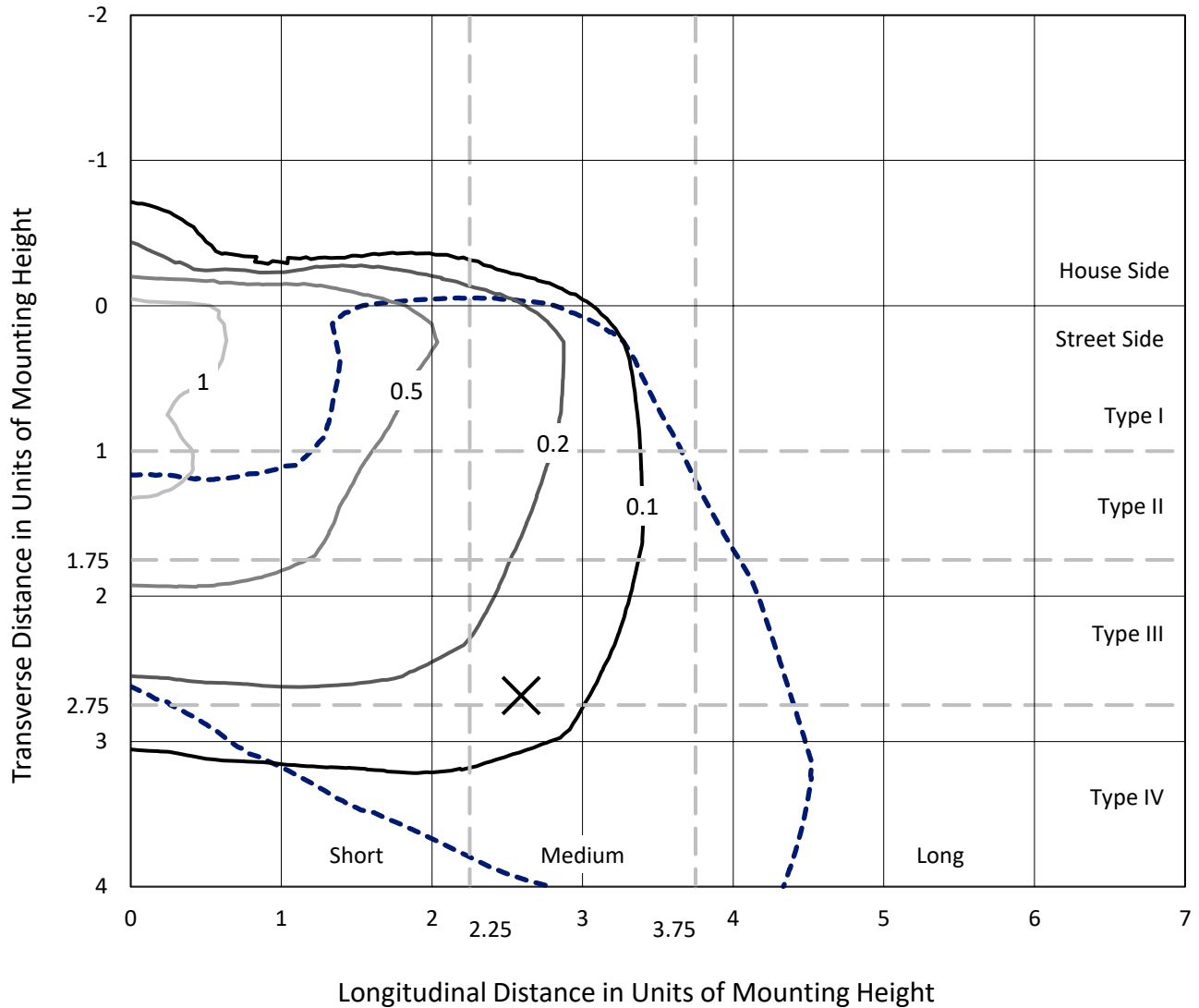
Lumens per Lamp: N/A  
Luminaire Lumens: 6423 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 74  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P381309  
 CATALOG NUMBER: PRV-PA1B-730-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

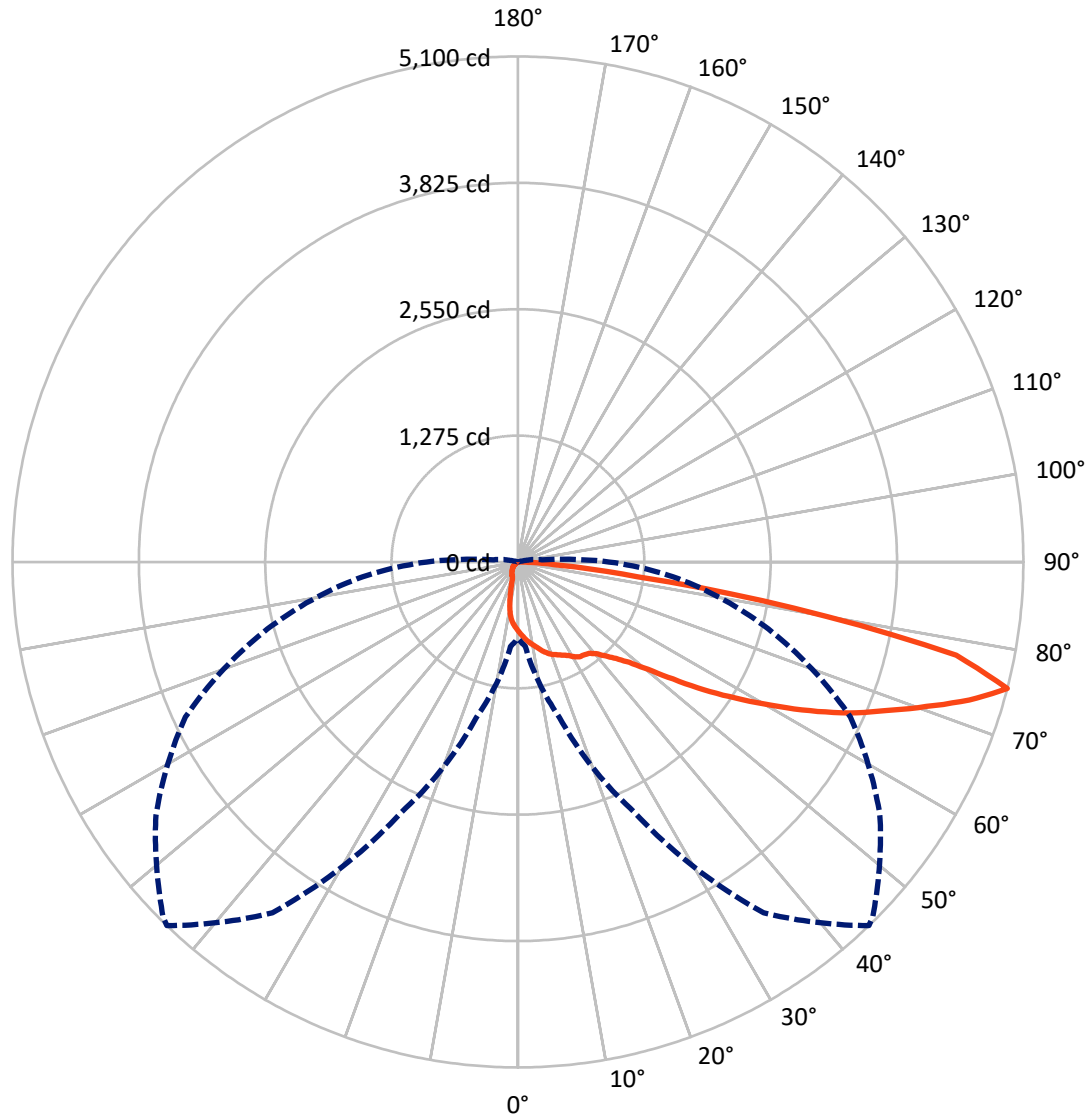
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P381309  
CATALOG NUMBER: PRV-PA1B-730-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P381309  
 CATALOG NUMBER: PRV-PA1B-730-U-T4W-HSS

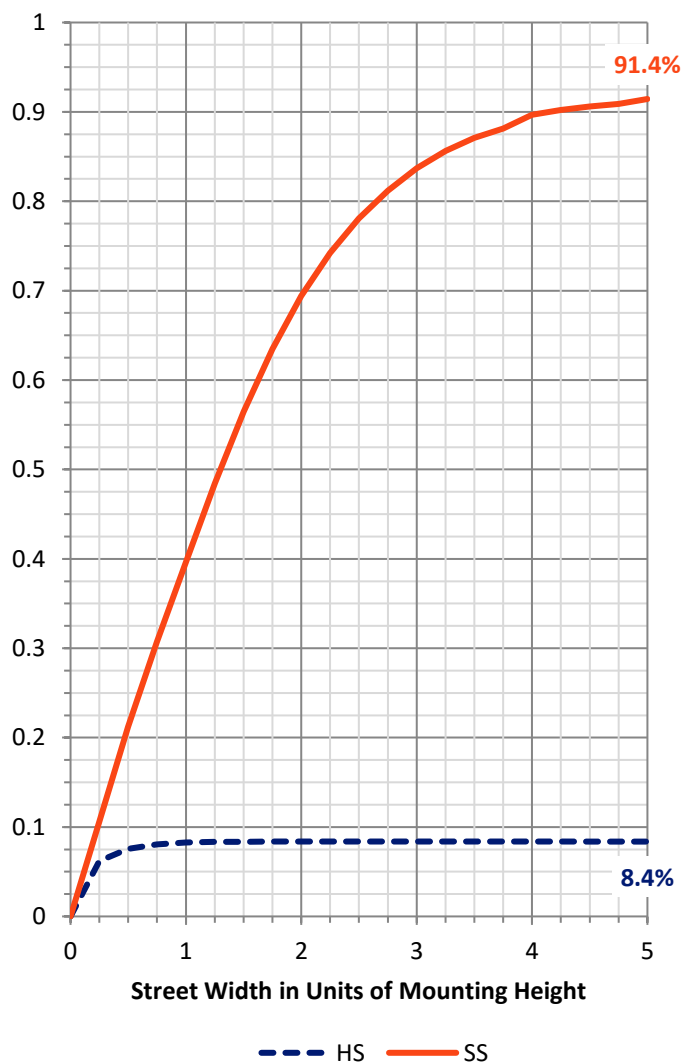
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 541.7    | 0.0    | 541.7  |
|                    | % Fixture | 8.4      | 0.0    | 8.4    |
| <b>Street Side</b> | Lumens    | 5881.3   | 0.0    | 5881.3 |
|                    | % Fixture | 91.6     | 0.0    | 91.6   |
| <b>Total</b>       | Lumens    | 6423.0   | 0.0    | 6423.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 65.9   | 1.0       |
| 10°-20°   | 184.7  | 2.9       |
| 20°-30°   | 304.9  | 4.7       |
| 30°-40°   | 442.5  | 6.9       |
| 40°-50°   | 719.3  | 11.2      |
| 50°-60°   | 1268.1 | 19.7      |
| 60°-70°   | 1822.5 | 28.4      |
| 70°-80°   | 1459.4 | 22.7      |
| 80°-90°   | 155.5  | 2.4       |
| 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°    | 6423.0 | 100.0     |
| 0°-180°   | 6423.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P381309

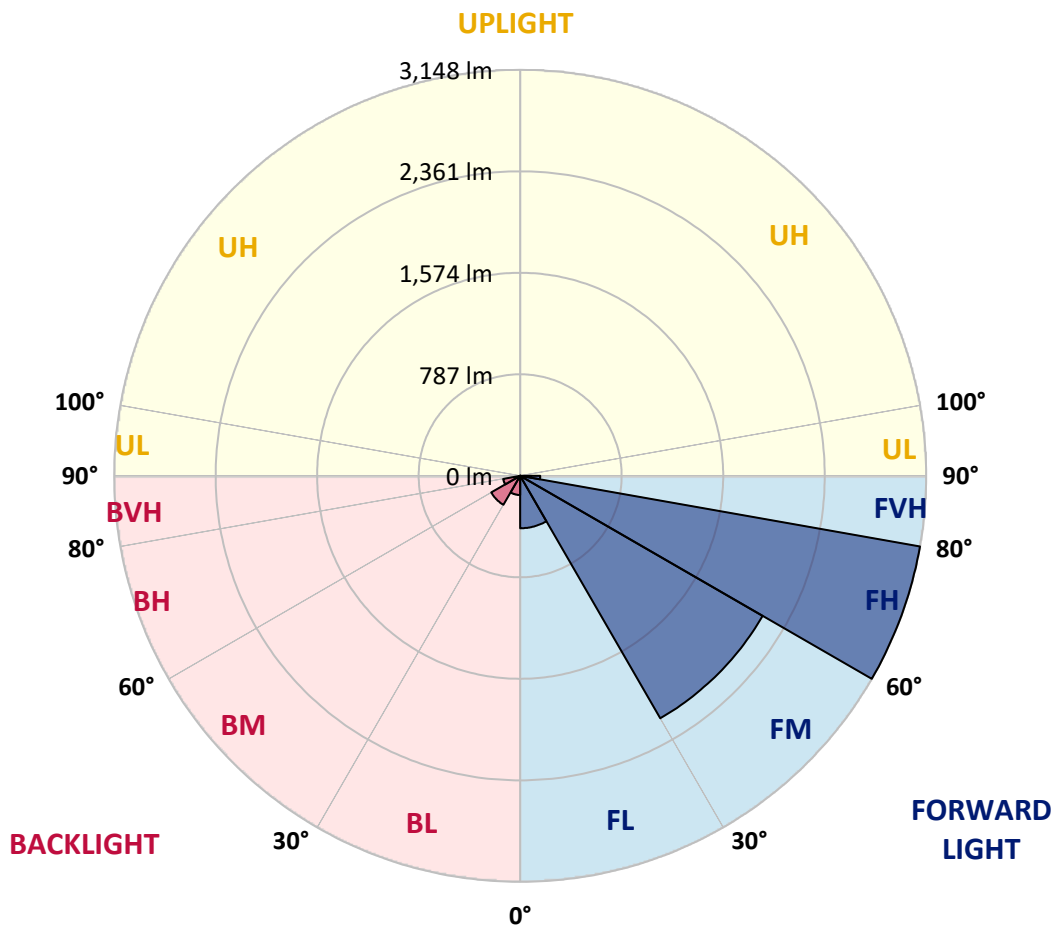
CATALOG NUMBER: PRV-PA1B-730-U-T4W-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 406.8  | 6.3       |                         |      |         |
| FM (30°-60°)   | 2171.0 | 33.8      |                         |      |         |
| FH (60°-80°)   | 3148.4 | 49.0      |                         |      | G2/5000 |
| FVH (80°-90°)  | 155.1  | 2.4       |                         |      | G2/225  |
| BL (0°-30°)    | 148.8  | 2.3       | B1/500                  |      |         |
| BM (30°-60°)   | 258.9  | 4.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 133.5  | 2.1       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 0.4    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Medium





REPORT NUMBER: P381309

CATALOG NUMBER: PRV-PA1B-730-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 44°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 699.1  | 699.1  | 699.1  | 699.1  | 699.1  | 699.1  | 699.1  | 699.1  | 699.1  | 699.1  | 699.1  |
| 2.5°  | 761.9  | 760.7  | 757.2  | 751.3  | 745.3  | 739.4  | 738.2  | 728.7  | 718.1  | 709.8  | 702.7  |
| 5°    | 829.5  | 828.3  | 822.4  | 809.3  | 796.3  | 780.9  | 779.7  | 757.2  | 737.0  | 714.5  | 695.6  |
| 7.5°  | 899.4  | 897.0  | 886.3  | 866.2  | 843.7  | 820.0  | 817.6  | 784.4  | 754.8  | 725.2  | 697.9  |
| 10°   | 953.9  | 951.5  | 936.1  | 912.4  | 881.6  | 852.0  | 848.4  | 814.1  | 784.4  | 746.5  | 709.8  |
| 12.5° | 1007.2 | 1002.5 | 982.3  | 956.3  | 918.3  | 889.9  | 886.3  | 850.8  | 815.2  | 776.1  | 731.1  |
| 15°   | 1057.0 | 1051.0 | 1032.1 | 998.9  | 958.6  | 931.4  | 929.0  | 891.1  | 854.3  | 809.3  | 759.6  |
| 17.5° | 1091.3 | 1089.0 | 1066.5 | 1029.7 | 990.6  | 968.1  | 965.7  | 926.6  | 889.9  | 842.5  | 789.2  |
| 20°   | 1109.1 | 1109.1 | 1087.8 | 1047.5 | 1011.9 | 996.5  | 993.0  | 956.3  | 920.7  | 875.7  | 820.0  |
| 22.5° | 1112.7 | 1116.2 | 1099.6 | 1055.8 | 1029.7 | 1016.7 | 1014.3 | 982.3  | 948.0  | 906.5  | 854.3  |
| 25°   | 1119.8 | 1119.8 | 1111.5 | 1064.1 | 1045.1 | 1041.6 | 1040.4 | 1011.9 | 981.1  | 939.7  | 888.7  |
| 27.5° | 1128.1 | 1128.1 | 1122.1 | 1075.9 | 1068.8 | 1067.6 | 1066.5 | 1053.4 | 1028.5 | 980.0  | 929.0  |
| 30°   | 1149.4 | 1150.6 | 1145.8 | 1099.6 | 1094.9 | 1107.9 | 1110.3 | 1103.2 | 1072.4 | 1011.9 | 970.5  |
| 32.5° | 1202.7 | 1192.1 | 1179.0 | 1116.2 | 1124.5 | 1141.1 | 1142.3 | 1128.1 | 1094.9 | 1046.3 | 1020.2 |
| 35°   | 1336.6 | 1273.8 | 1214.6 | 1130.4 | 1134.0 | 1150.6 | 1153.0 | 1151.8 | 1131.6 | 1090.2 | 1077.1 |
| 37.5° | 1461.0 | 1372.2 | 1288.0 | 1163.6 | 1151.8 | 1169.5 | 1174.3 | 1194.4 | 1179.0 | 1150.6 | 1154.1 |
| 40°   | 1533.3 | 1499.0 | 1439.7 | 1254.9 | 1187.3 | 1214.6 | 1219.3 | 1250.1 | 1244.2 | 1232.3 | 1254.9 |
| 42.5° | 1756.1 | 1758.5 | 1694.5 | 1391.1 | 1252.5 | 1296.3 | 1302.3 | 1327.1 | 1335.4 | 1341.4 | 1395.9 |
| 45°   | 2014.4 | 2022.7 | 2007.3 | 1636.4 | 1375.7 | 1389.9 | 1398.2 | 1431.4 | 1462.2 | 1500.1 | 1599.7 |
| 47.5° | 2324.9 | 2317.8 | 2260.9 | 1936.2 | 1590.2 | 1510.8 | 1516.7 | 1580.7 | 1634.0 | 1717.0 | 1859.2 |
| 50°   | 2599.8 | 2617.5 | 2509.7 | 2215.9 | 1892.4 | 1701.6 | 1695.7 | 1758.5 | 1854.4 | 1970.6 | 2149.5 |
| 52.5° | 2877.1 | 2851.0 | 2705.2 | 2493.1 | 2250.2 | 1961.1 | 1943.3 | 1977.7 | 2112.8 | 2250.2 | 2433.9 |
| 55°   | 2950.5 | 2952.9 | 2903.1 | 2796.5 | 2548.8 | 2276.3 | 2246.7 | 2244.3 | 2412.6 | 2506.2 | 2732.5 |
| 57.5° | 3095.1 | 3101.0 | 3112.9 | 3134.2 | 3016.9 | 2591.5 | 2560.7 | 2527.5 | 2691.0 | 2745.5 | 3032.3 |
| 60°   | 3242.0 | 3249.1 | 3321.4 | 3436.3 | 3358.1 | 2931.6 | 2898.4 | 2820.2 | 2911.4 | 2984.9 | 3347.5 |
| 62.5° | 3223.1 | 3272.8 | 3482.6 | 3711.3 | 3701.8 | 3304.8 | 3263.3 | 3074.9 | 3133.0 | 3197.0 | 3636.6 |
| 65°   | 2910.2 | 2963.6 | 3435.2 | 3787.1 | 4046.6 | 3673.3 | 3605.8 | 3338.0 | 3341.6 | 3418.6 | 3915.1 |
| 67.5° | 2630.6 | 2688.6 | 3138.9 | 3755.1 | 4274.1 | 4003.9 | 3934.0 | 3602.2 | 3546.5 | 3674.5 | 4064.4 |
| 70°   | 2469.4 | 2527.5 | 2903.1 | 3655.6 | 4338.1 | 4370.1 | 4309.7 | 3904.4 | 3790.6 | 3908.0 | 3897.3 |
| 72.5° | 1932.6 | 2023.9 | 2602.1 | 3466.0 | 4406.8 | 4762.3 | 4714.9 | 4287.1 | 3998.0 | 3663.9 | 2967.1 |
| 75°   | 770.2  | 854.3  | 1624.6 | 2789.4 | 4320.3 | 5100.0 | 5063.3 | 4459.0 | 3700.6 | 2616.4 | 1519.1 |
| 77.5° | 232.2  | 248.8  | 451.5  | 1379.3 | 3167.4 | 4521.8 | 4509.9 | 3749.2 | 2618.7 | 1214.6 | 414.7  |
| 80°   | 77.0   | 85.3   | 138.6  | 380.4  | 1445.6 | 2824.9 | 2878.2 | 2388.9 | 1189.7 | 278.5  | 84.1   |
| 82.5° | 32.0   | 35.5   | 69.9   | 152.9  | 511.9  | 1216.9 | 1199.2 | 1070.0 | 414.7  | 173.0  | 30.8   |
| 85°   | 8.3    | 10.7   | 32.0   | 87.7   | 187.2  | 419.5  | 440.8  | 359.0  | 234.6  | 143.4  | 9.5    |
| 87.5° | 0.0    | 0.0    | 15.4   | 35.5   | 84.1   | 126.8  | 132.7  | 109.0  | 132.7  | 107.8  | 4.7    |
| 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: P381309  
 CATALOG NUMBER: PRV-PA1B-730-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 699.1  | 699.1  | 699.1 | 699.1 | 699.1 | 699.1 | 699.1 | 699.1 | 699.1 | 699.1 | 699.1 |
| 2.5°  | 696.7  | 690.8  | 680.2 | 673.1 | 663.6 | 661.2 | 656.5 | 650.5 | 649.4 | 643.4 | 644.6 |
| 5°    | 684.9  | 675.4  | 656.5 | 643.4 | 628.0 | 623.3 | 615.0 | 609.1 | 604.3 | 596.0 | 597.2 |
| 7.5°  | 682.5  | 668.3  | 642.2 | 617.4 | 592.5 | 574.7 | 549.8 | 529.7 | 513.1 | 495.3 | 498.9 |
| 10°   | 690.8  | 673.1  | 636.3 | 602.0 | 556.9 | 500.0 | 434.9 | 392.2 | 370.9 | 349.6 | 351.9 |
| 12.5° | 707.4  | 686.1  | 638.7 | 586.5 | 495.3 | 398.1 | 308.1 | 250.0 | 234.6 | 225.1 | 226.3 |
| 15°   | 732.3  | 706.2  | 645.8 | 556.9 | 412.4 | 287.9 | 205.0 | 180.1 | 186.0 | 189.6 | 189.6 |
| 17.5° | 758.4  | 728.7  | 651.7 | 503.6 | 318.8 | 201.4 | 167.1 | 164.7 | 173.0 | 181.3 | 181.3 |
| 20°   | 790.4  | 752.4  | 652.9 | 436.1 | 229.9 | 163.5 | 157.6 | 157.6 | 163.5 | 173.0 | 173.0 |
| 22.5° | 821.2  | 778.5  | 642.2 | 359.0 | 175.4 | 151.7 | 151.7 | 151.7 | 155.2 | 164.7 | 165.9 |
| 25°   | 857.9  | 810.5  | 619.7 | 277.3 | 150.5 | 144.6 | 144.6 | 145.7 | 148.1 | 156.4 | 157.6 |
| 27.5° | 897.0  | 843.7  | 581.8 | 202.6 | 137.5 | 136.3 | 137.5 | 138.6 | 139.8 | 148.1 | 150.5 |
| 30°   | 942.0  | 880.4  | 533.2 | 151.7 | 125.6 | 125.6 | 129.2 | 131.5 | 131.5 | 138.6 | 141.0 |
| 32.5° | 994.2  | 929.0  | 475.2 | 125.6 | 113.8 | 112.6 | 118.5 | 122.0 | 122.0 | 128.0 | 130.3 |
| 35°   | 1059.3 | 978.8  | 405.3 | 111.4 | 104.3 | 101.9 | 104.3 | 110.2 | 112.6 | 117.3 | 118.5 |
| 37.5° | 1145.8 | 1038.0 | 330.6 | 103.1 | 97.2  | 92.4  | 92.4  | 93.6  | 98.4  | 103.1 | 104.3 |
| 40°   | 1256.0 | 1103.2 | 257.1 | 97.2  | 90.1  | 85.3  | 81.8  | 80.6  | 79.4  | 82.9  | 85.3  |
| 42.5° | 1394.7 | 1176.7 | 192.0 | 91.2  | 84.1  | 77.0  | 72.3  | 67.5  | 61.6  | 60.4  | 61.6  |
| 45°   | 1572.4 | 1266.7 | 142.2 | 86.5  | 80.6  | 69.9  | 61.6  | 53.3  | 42.7  | 39.1  | 40.3  |
| 47.5° | 1782.2 | 1360.3 | 111.4 | 81.8  | 78.2  | 61.6  | 51.0  | 36.7  | 26.1  | 23.7  | 24.9  |
| 50°   | 2004.9 | 1450.4 | 94.8  | 75.8  | 73.5  | 53.3  | 36.7  | 22.5  | 15.4  | 15.4  | 16.6  |
| 52.5° | 2194.5 | 1501.3 | 86.5  | 71.1  | 66.4  | 43.8  | 23.7  | 13.0  | 9.5   | 9.5   | 10.7  |
| 55°   | 2378.2 | 1528.6 | 80.6  | 66.4  | 56.9  | 30.8  | 13.0  | 8.3   | 5.9   | 5.9   | 5.9   |
| 57.5° | 2567.8 | 1540.4 | 73.5  | 60.4  | 45.0  | 19.0  | 7.1   | 4.7   | 3.6   | 3.6   | 3.6   |
| 60°   | 2736.0 | 1517.9 | 62.8  | 49.8  | 29.6  | 9.5   | 3.6   | 3.6   | 2.4   | 1.2   | 1.2   |
| 62.5° | 2877.1 | 1475.3 | 43.8  | 35.5  | 17.8  | 4.7   | 2.4   | 1.2   | 0.0   | 0.0   | 0.0   |
| 65°   | 2963.6 | 1406.5 | 28.4  | 23.7  | 10.7  | 3.6   | 1.2   | 0.0   | 0.0   | 0.0   | 0.0   |
| 67.5° | 2938.7 | 1277.4 | 17.8  | 15.4  | 4.7   | 2.4   | 1.2   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70°   | 2651.9 | 1047.5 | 13.0  | 9.5   | 3.6   | 1.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 1911.3 | 708.6  | 9.5   | 5.9   | 2.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 919.5  | 252.4  | 5.9   | 4.7   | 1.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 225.1  | 55.7   | 3.6   | 2.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 49.8   | 10.7   | 2.4   | 1.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 16.6   | 4.7    | 1.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 5.9    | 2.4    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 3.6    | 1.2    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 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)