

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: P622854

Luminaire Tested: **PRV-M-PA6D-750-U-T2R-HSS**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622854  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/29/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-M-PA6D-750-U-T2R-HSS  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K LIGHT ENGINES AND TYPE II ROADWAY OPTICS WITH HOUSE  
SIDE SHIELD, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53642 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G5

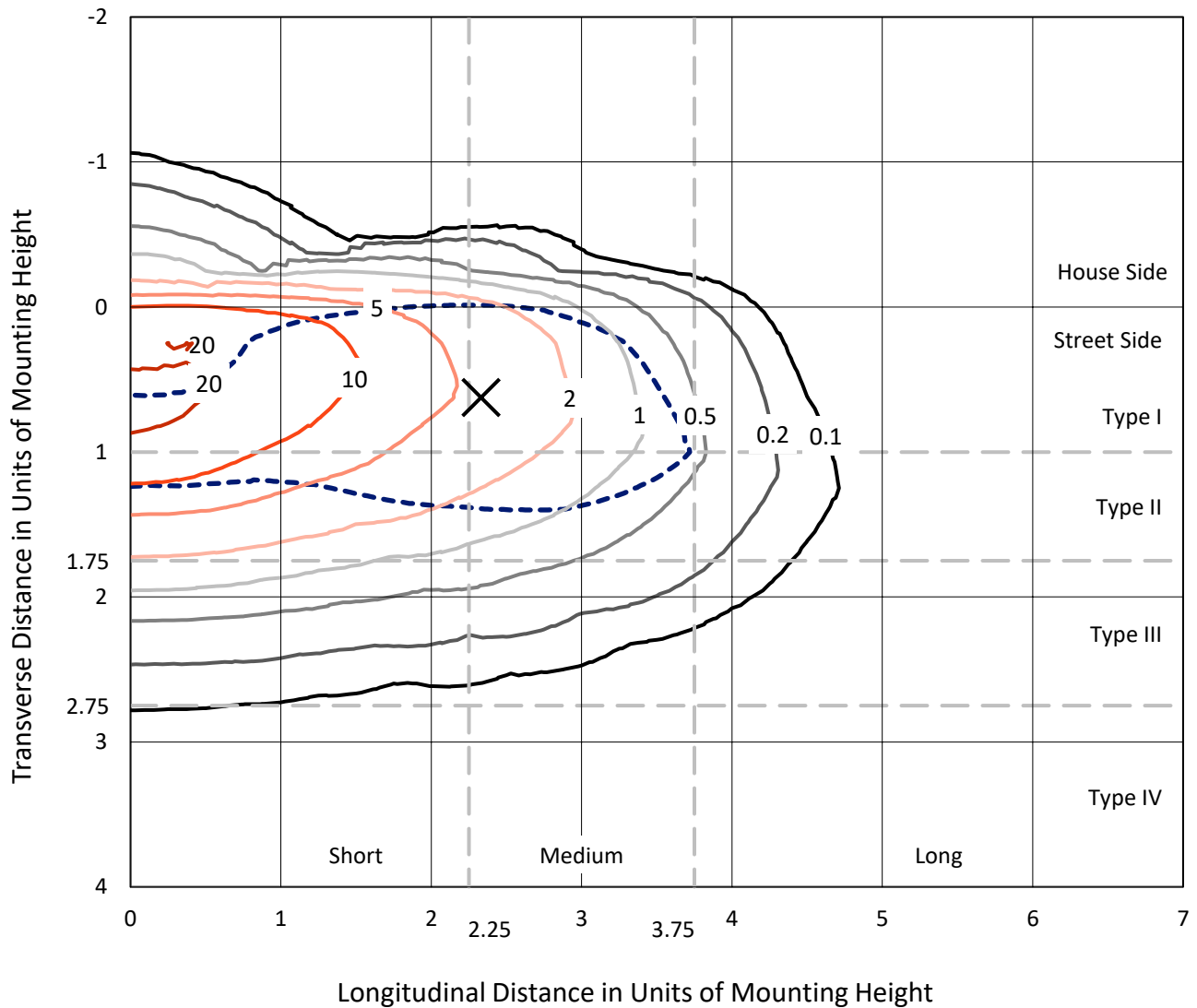
Input Watts (W): 544  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P622854  
 CATALOG NUMBER: PRV-M-PA6D-750-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

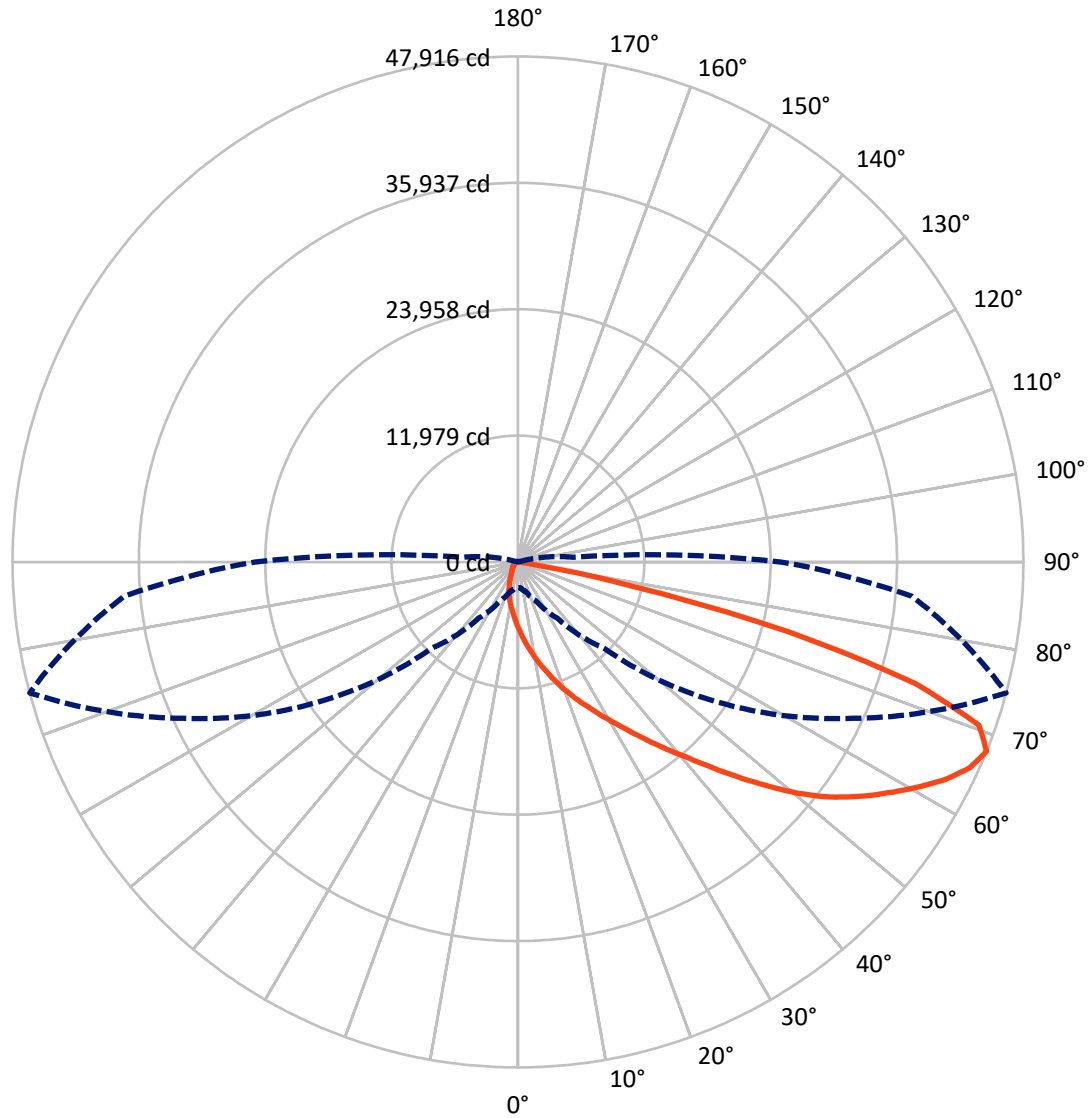
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.9 fc  
 Type II - Medium - N/A

REPORT NUMBER: P622854  
CATALOG NUMBER: PRV-M-PA6D-750-U-T2R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P622854  
 CATALOG NUMBER: PRV-M-PA6D-750-U-T2R-HSS

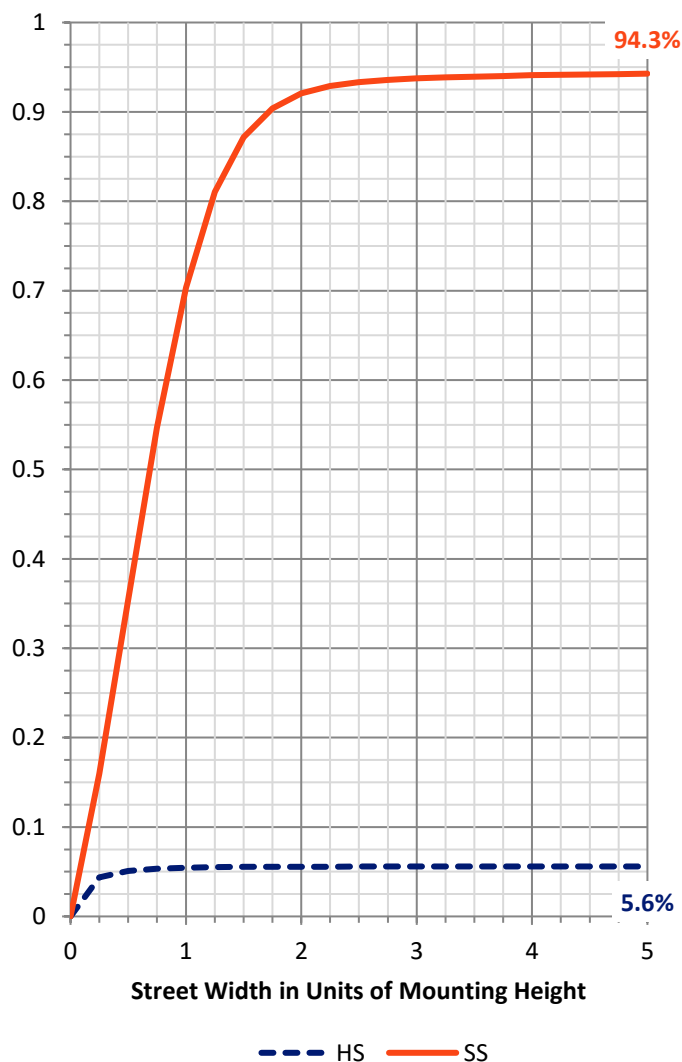
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3016.5   | 0.0    | 3016.5  |
|                    | % Fixture | 5.6      | 0.0    | 5.6     |
| <b>Street Side</b> | Lumens    | 50625.5  | 0.0    | 50625.5 |
|                    | % Fixture | 94.4     | 0.0    | 94.4    |
| <b>Total</b>       | Lumens    | 53642.0  | 0.0    | 53642.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 613.6   | 1.1       |
| 10°-20°   | 2069.9  | 3.9       |
| 20°-30°   | 4116.7  | 7.7       |
| 30°-40°   | 7463.5  | 13.9      |
| 40°-50°   | 11174.1 | 20.8      |
| 50°-60°   | 12734.8 | 23.7      |
| 60°-70°   | 10817.9 | 20.2      |
| 70°-80°   | 4463.2  | 8.3       |
| 80°-90°   | 188.3   | 0.4       |
| 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°    | 53642.0 | 100.0     |
| 0°-180°   | 53642.0 | 100.0     |

**Coefficient of Utilization**

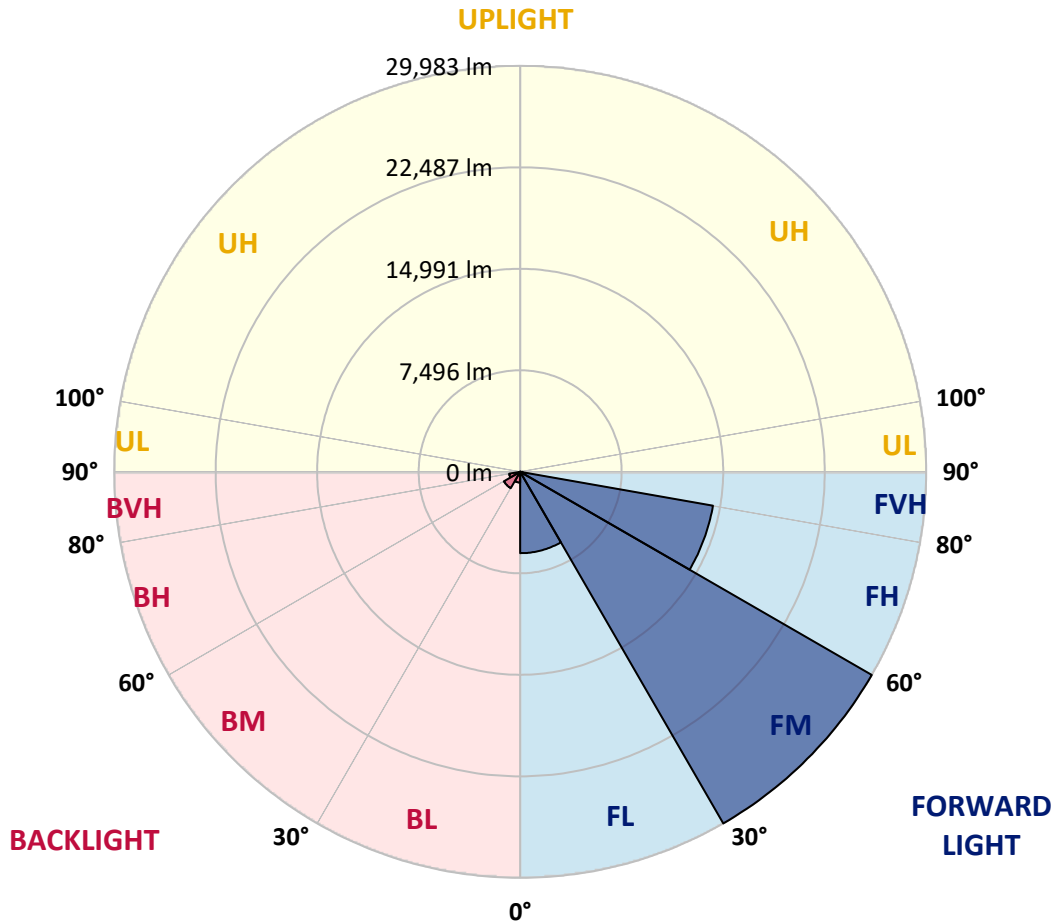


REPORT NUMBER: P622854  
 CATALOG NUMBER: PRV-M-PA6D-750-U-T2R-HSS

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 6009.0  | 11.2      |                         |      |         |
| FM (30°-60°)   | 29982.6 | 55.9      |                         |      |         |
| FH (60°-80°)   | 14454.9 | 26.9      |                         |      | G5      |
| FVH (80°-90°)  | 179.1   | 0.3       |                         |      | G2/225  |
| BL (0°-30°)    | 791.2   | 1.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 1389.9  | 2.6       | B2/2500                 |      |         |
| BH (60°-80°)   | 826.2   | 1.5       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 9.3     | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G5**  
 Type II Medium





REPORT NUMBER: P622854

CATALOG NUMBER: PRV-M-PA6D-750-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6244.6  | 6244.6  | 6244.6  | 6244.6  | 6244.6  | 6244.6  | 6244.6  | 6244.6  | 6244.6  | 6244.6  | 6244.6  |
| 2.5°  | 8671.0  | 8566.5  | 8644.9  | 8553.5  | 8334.8  | 8062.3  | 7757.2  | 7372.1  | 6949.5  | 6526.9  | 6313.1  |
| 5°    | 10467.5 | 10253.7 | 10268.4 | 10152.6 | 9907.8  | 9542.3  | 9093.6  | 8440.9  | 7687.0  | 6841.8  | 6404.5  |
| 7.5°  | 11415.5 | 11232.8 | 11249.1 | 11165.9 | 10992.9 | 10687.8 | 10244.0 | 9470.5  | 8467.0  | 7233.4  | 6567.7  |
| 10°   | 12158.0 | 12043.7 | 12079.6 | 12030.7 | 11905.0 | 11660.3 | 11268.7 | 10488.7 | 9292.7  | 7703.4  | 6794.5  |
| 12.5° | 12918.3 | 12796.0 | 12864.5 | 12844.9 | 12768.2 | 12596.9 | 12202.0 | 11492.2 | 10149.3 | 8220.6  | 7050.7  |
| 15°   | 13370.3 | 13218.6 | 13360.5 | 13504.1 | 13597.1 | 13536.8 | 13238.2 | 12497.4 | 11072.9 | 8768.9  | 7323.2  |
| 17.5° | 13580.8 | 13455.2 | 13652.6 | 13899.0 | 14217.2 | 14388.5 | 14192.7 | 13553.1 | 12045.4 | 9374.2  | 7646.3  |
| 20°   | 14065.4 | 13951.2 | 14130.7 | 14390.2 | 14734.5 | 15088.5 | 15140.8 | 14641.4 | 13044.0 | 10026.9 | 7995.4  |
| 22.5° | 15193.0 | 15062.4 | 15140.8 | 15186.4 | 15419.8 | 15755.9 | 15984.4 | 15746.1 | 14073.6 | 10717.2 | 8364.2  |
| 25°   | 17144.5 | 16956.9 | 16862.2 | 16539.1 | 16516.3 | 16614.2 | 16759.4 | 16859.0 | 15113.0 | 11431.8 | 8728.1  |
| 27.5° | 19807.5 | 19561.1 | 19229.9 | 18425.4 | 18020.7 | 17789.0 | 17625.9 | 17973.4 | 16286.2 | 12122.1 | 9109.9  |
| 30°   | 22579.8 | 22269.8 | 21860.2 | 20887.7 | 19938.0 | 19324.5 | 18720.8 | 19115.6 | 17528.0 | 12944.5 | 9519.5  |
| 32.5° | 24968.6 | 24609.6 | 24071.2 | 23082.3 | 22087.0 | 21139.0 | 20115.9 | 20269.3 | 18923.1 | 13858.2 | 9991.0  |
| 35°   | 26864.7 | 26430.6 | 25990.1 | 25009.4 | 24116.9 | 23110.1 | 21790.0 | 21488.2 | 20551.5 | 14896.0 | 10578.5 |
| 37.5° | 28210.9 | 27749.1 | 27259.6 | 26407.8 | 25774.7 | 25097.5 | 23775.8 | 22925.7 | 22297.5 | 16110.0 | 11286.6 |
| 40°   | 29015.3 | 28527.4 | 28126.0 | 27512.5 | 27055.6 | 26863.1 | 25975.4 | 24612.9 | 24178.9 | 17526.3 | 12172.7 |
| 42.5° | 29327.0 | 28853.8 | 28569.8 | 28124.4 | 27938.4 | 28223.9 | 28121.1 | 26729.2 | 26440.4 | 19225.0 | 13234.9 |
| 45°   | 29116.5 | 28682.4 | 28512.7 | 28307.1 | 28401.8 | 29183.4 | 30151.0 | 29049.6 | 28982.7 | 21132.4 | 14465.2 |
| 47.5° | 28072.2 | 27729.5 | 27845.3 | 28008.5 | 28400.1 | 29726.7 | 31799.0 | 31534.7 | 31658.7 | 23315.7 | 15876.7 |
| 50°   | 25784.5 | 25591.9 | 26120.6 | 26956.1 | 27876.3 | 29858.9 | 33073.4 | 33894.1 | 34471.8 | 25622.9 | 17426.8 |
| 52.5° | 21228.7 | 21354.4 | 23067.7 | 24860.9 | 26644.4 | 29508.1 | 33775.0 | 35950.1 | 37036.8 | 27719.7 | 18859.5 |
| 55°   | 16294.4 | 16230.7 | 18410.7 | 21715.0 | 24519.9 | 28476.8 | 33951.3 | 37191.9 | 39246.2 | 29721.8 | 20187.7 |
| 57.5° | 12605.1 | 12552.8 | 13845.2 | 17508.4 | 21266.2 | 26582.4 | 33700.0 | 37958.8 | 41318.5 | 31634.2 | 21532.2 |
| 60°   | 9694.1  | 9663.1  | 10638.8 | 13065.2 | 17208.1 | 23841.1 | 32768.3 | 38327.5 | 43413.6 | 33714.7 | 22901.2 |
| 62.5° | 6956.0  | 6996.8  | 7832.3  | 9708.7  | 13357.3 | 19995.1 | 30872.2 | 38097.5 | 45428.8 | 35560.1 | 24165.8 |
| 65°   | 4317.5  | 4363.2  | 5076.3  | 6763.5  | 9619.0  | 15592.7 | 27677.3 | 37103.7 | 47054.0 | 36925.9 | 25063.3 |
| 67.5° | 2431.3  | 2454.1  | 2911.0  | 4100.5  | 6508.9  | 11549.3 | 23173.7 | 35057.6 | 47915.5 | 37500.3 | 24934.4 |
| 70°   | 1638.2  | 1646.4  | 1781.8  | 2259.9  | 3746.4  | 7765.4  | 17536.1 | 31278.5 | 46368.7 | 35591.1 | 22535.7 |
| 72.5° | 1307.0  | 1311.9  | 1406.5  | 1520.8  | 2147.3  | 4812.0  | 11768.0 | 25324.3 | 39417.5 | 28210.9 | 16555.5 |
| 75°   | 966.0   | 987.2   | 1165.0  | 1230.3  | 1455.5  | 2628.7  | 6329.5  | 16596.3 | 26608.5 | 15844.0 | 9002.2  |
| 77.5° | 812.6   | 817.5   | 874.6   | 1014.9  | 1111.2  | 1491.4  | 2127.8  | 7334.6  | 11004.3 | 4681.4  | 2320.3  |
| 80°   | 549.9   | 549.9   | 651.1   | 745.7   | 846.9   | 982.3   | 840.3   | 1997.2  | 2038.0  | 755.5   | 430.8   |
| 82.5° | 385.1   | 398.1   | 466.7   | 629.8   | 688.6   | 527.0   | 430.8   | 553.2   | 469.9   | 249.7   | 135.4   |
| 85°   | 106.1   | 130.5   | 319.8   | 468.3   | 367.1   | 159.9   | 259.4   | 218.7   | 161.5   | 93.0    | 57.1    |
| 87.5° | 16.3    | 19.6    | 153.4   | 140.3   | 99.5    | 29.4    | 89.7    | 37.5    | 50.6    | 35.9    | 27.7    |
| 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: P622854

CATALOG NUMBER: PRV-M-PA6D-750-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6244.6 | 6244.6 | 6244.6 | 6244.6 | 6244.6 | 6244.6 | 6244.6 | 6244.6 | 6244.6 | 6244.6 |
| 2.5°  | 6083.1 | 5658.8 | 5205.2 | 4808.7 | 4470.9 | 4162.5 | 4012.4 | 3805.2 | 3801.9 | 3656.7 |
| 5°    | 5946.0 | 5053.4 | 4260.4 | 3589.8 | 3054.6 | 2671.1 | 2434.5 | 2235.5 | 2142.5 | 2104.9 |
| 7.5°  | 5864.4 | 4555.8 | 3470.7 | 2653.2 | 2091.9 | 1768.8 | 1584.4 | 1509.3 | 1468.6 | 1449.0 |
| 10°   | 5844.8 | 4121.7 | 2795.1 | 1964.6 | 1556.7 | 1403.3 | 1341.3 | 1303.7 | 1289.1 | 1274.4 |
| 12.5° | 5833.4 | 3694.2 | 2258.3 | 1555.0 | 1356.0 | 1267.8 | 1212.4 | 1171.6 | 1153.6 | 1140.6 |
| 15°   | 5826.9 | 3265.1 | 1816.1 | 1367.4 | 1238.5 | 1152.0 | 1085.1 | 1045.9 | 1021.5 | 1008.4 |
| 17.5° | 5836.7 | 2880.0 | 1512.6 | 1263.0 | 1138.9 | 1032.9 | 964.3  | 913.8  | 894.2  | 876.2  |
| 20°   | 5854.6 | 2488.4 | 1352.7 | 1168.3 | 1031.2 | 915.4  | 843.6  | 789.8  | 762.0  | 752.2  |
| 22.5° | 5862.8 | 2103.3 | 1243.4 | 1065.5 | 918.7  | 799.5  | 724.5  | 678.8  | 654.3  | 644.5  |
| 25°   | 5839.9 | 1767.2 | 1138.9 | 956.2  | 807.7  | 693.5  | 620.1  | 582.5  | 569.5  | 559.7  |
| 27.5° | 5786.1 | 1481.6 | 1034.5 | 845.2  | 706.5  | 603.7  | 543.4  | 509.1  | 499.3  | 497.7  |
| 30°   | 5696.3 | 1259.7 | 930.1  | 744.1  | 616.8  | 527.0  | 474.8  | 447.1  | 442.2  | 438.9  |
| 32.5° | 5613.1 | 1109.6 | 833.8  | 657.6  | 541.7  | 460.1  | 414.5  | 396.5  | 393.2  | 393.2  |
| 35°   | 5526.6 | 997.0  | 739.2  | 579.3  | 474.8  | 404.7  | 367.1  | 350.8  | 354.1  | 352.5  |
| 37.5° | 5461.4 | 899.1  | 665.7  | 515.6  | 416.1  | 352.5  | 319.8  | 308.4  | 314.9  | 314.9  |
| 40°   | 5422.2 | 820.8  | 590.7  | 456.9  | 363.9  | 306.8  | 279.0  | 270.9  | 282.3  | 283.9  |
| 42.5° | 5420.6 | 745.7  | 530.3  | 403.0  | 316.6  | 267.6  | 243.1  | 235.0  | 248.0  | 251.3  |
| 45°   | 5451.6 | 687.0  | 471.6  | 352.5  | 277.4  | 231.7  | 205.6  | 197.4  | 212.1  | 213.8  |
| 47.5° | 5578.9 | 638.0  | 419.4  | 310.0  | 243.1  | 200.7  | 169.7  | 161.5  | 177.9  | 179.5  |
| 50°   | 5789.4 | 572.7  | 362.2  | 270.9  | 212.1  | 169.7  | 137.1  | 130.5  | 148.5  | 150.1  |
| 52.5° | 5988.4 | 510.7  | 310.0  | 233.3  | 184.4  | 140.3  | 109.3  | 106.1  | 124.0  | 127.3  |
| 55°   | 6076.5 | 448.7  | 266.0  | 200.7  | 159.9  | 115.9  | 86.5   | 88.1   | 106.1  | 109.3  |
| 57.5° | 6123.9 | 396.5  | 230.1  | 173.0  | 138.7  | 94.6   | 73.4   | 75.1   | 91.4   | 94.6   |
| 60°   | 6161.4 | 344.3  | 202.3  | 151.8  | 120.7  | 80.0   | 63.6   | 62.0   | 75.1   | 78.3   |
| 62.5° | 6141.8 | 295.3  | 177.9  | 132.2  | 102.8  | 70.2   | 53.8   | 49.0   | 57.1   | 58.7   |
| 65°   | 5893.8 | 256.2  | 153.4  | 112.6  | 88.1   | 58.7   | 42.4   | 29.4   | 34.3   | 35.9   |
| 67.5° | 5198.7 | 225.2  | 130.5  | 96.3   | 71.8   | 50.6   | 31.0   | 19.6   | 22.8   | 24.5   |
| 70°   | 3880.2 | 192.5  | 106.1  | 80.0   | 58.7   | 40.8   | 22.8   | 13.1   | 16.3   | 17.9   |
| 72.5° | 2096.8 | 158.3  | 84.8   | 62.0   | 44.1   | 31.0   | 14.7   | 8.2    | 9.8    | 9.8    |
| 75°   | 866.4  | 114.2  | 63.6   | 42.4   | 31.0   | 22.8   | 11.4   | 3.3    | 3.3    | 3.3    |
| 77.5° | 321.4  | 70.2   | 40.8   | 32.6   | 24.5   | 17.9   | 8.2    | 1.6    | 0.0    | 0.0    |
| 80°   | 146.9  | 37.5   | 31.0   | 26.1   | 19.6   | 14.7   | 6.5    | 0.0    | 0.0    | 0.0    |
| 82.5° | 68.5   | 26.1   | 24.5   | 21.2   | 16.3   | 11.4   | 4.9    | 0.0    | 0.0    | 0.0    |
| 85°   | 32.6   | 21.2   | 22.8   | 19.6   | 16.3   | 9.8    | 3.3    | 0.0    | 0.0    | 0.0    |
| 87.5° | 19.6   | 22.8   | 22.8   | 19.6   | 16.3   | 9.8    | 1.6    | 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    |

(END OF REPORT)