

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: P622684

Luminaire Tested: **PRV-M-PA6B-8540-U-T2R**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622684  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/29/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-M-PA6B-8540-U-T2R  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(6) 85 CRI, 4000K LIGHT ENGINES AND TYPE II ROADWAY OPTICS, BRONZE  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41182.7 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 365.8  
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

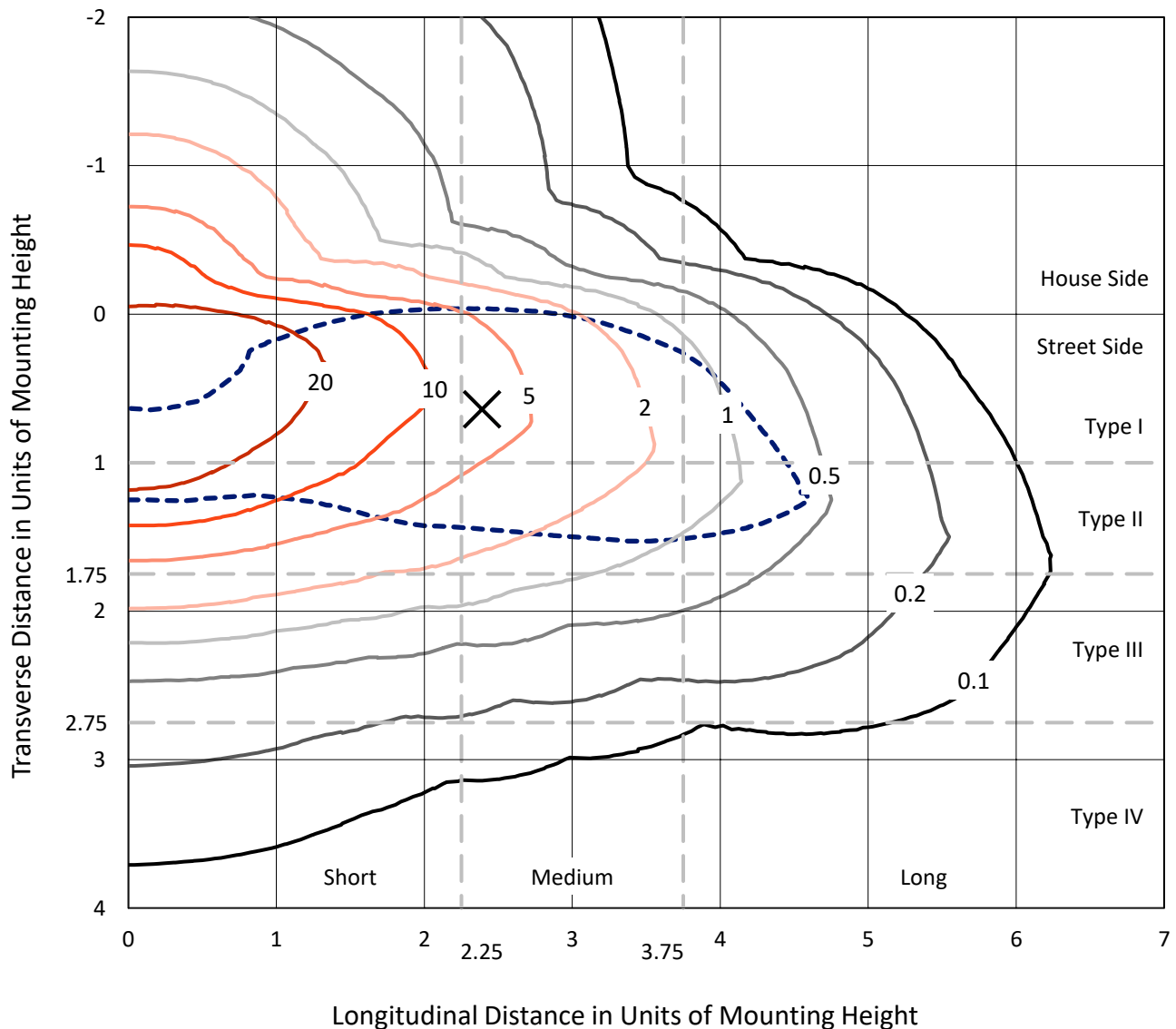


REPORT NUMBER: P622684

CATALOG NUMBER: PRV-M-PA6B-8540-U-T2R

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

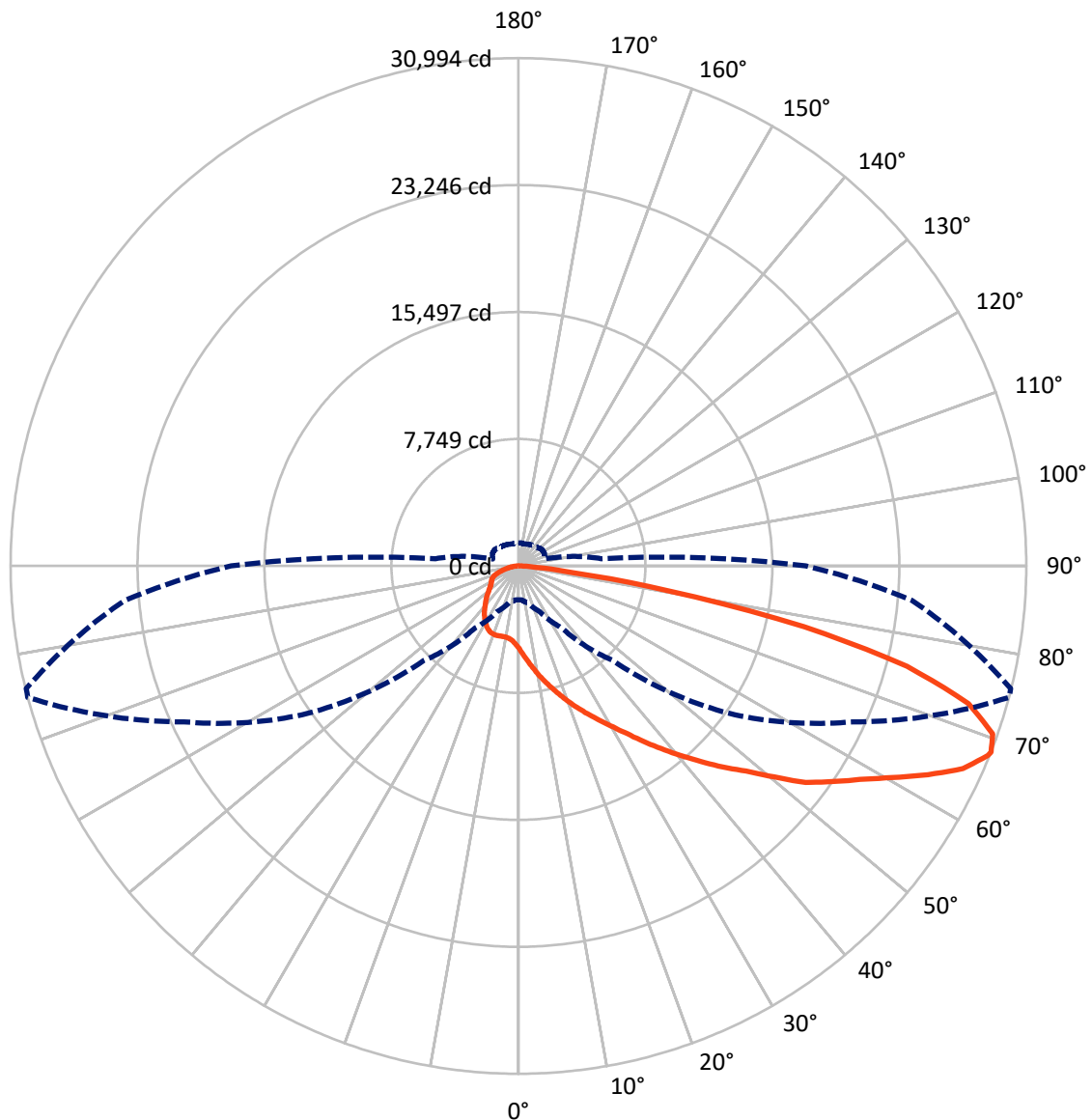


Based on 15 foot mounting height. Maximum calculated value = 41.6 fc  
 Type II - Medium - N/A

REPORT NUMBER: P622684

CATALOG NUMBER: PRV-M-PA6B-8540-U-T2R

## Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P622684

CATALOG NUMBER: PRV-M-PA6B-8540-U-T2R

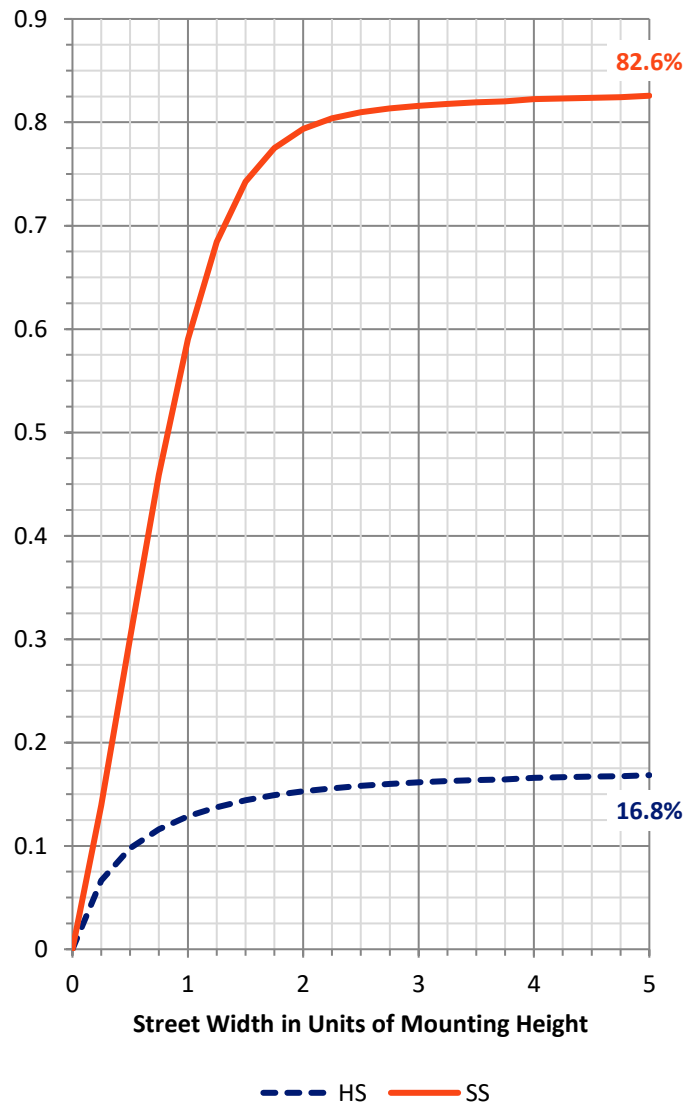
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7049.9   | 0.0    | 7049.9  |
|                    | % Fixture | 17.1     | 0.0    | 17.1    |
| <b>Street Side</b> | Lumens    | 34132.8  | 0.0    | 34132.8 |
|                    | % Fixture | 82.9     | 0.0    | 82.9    |
| <b>Total</b>       | Lumens    | 41182.7  | 0.0    | 41182.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 528.9   | 1.3       |
| 10°-20°   | 1810.2  | 4.4       |
| 20°-30°   | 3352.0  | 8.1       |
| 30°-40°   | 5462.6  | 13.3      |
| 40°-50°   | 7700.2  | 18.7      |
| 50°-60°   | 8856.4  | 21.5      |
| 60°-70°   | 8054.0  | 19.6      |
| 70°-80°   | 4676.6  | 11.4      |
| 80°-90°   | 741.8   | 1.8       |
| 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°    | 41182.7 | 100.0     |
| 0°-180°   | 41182.7 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P622684

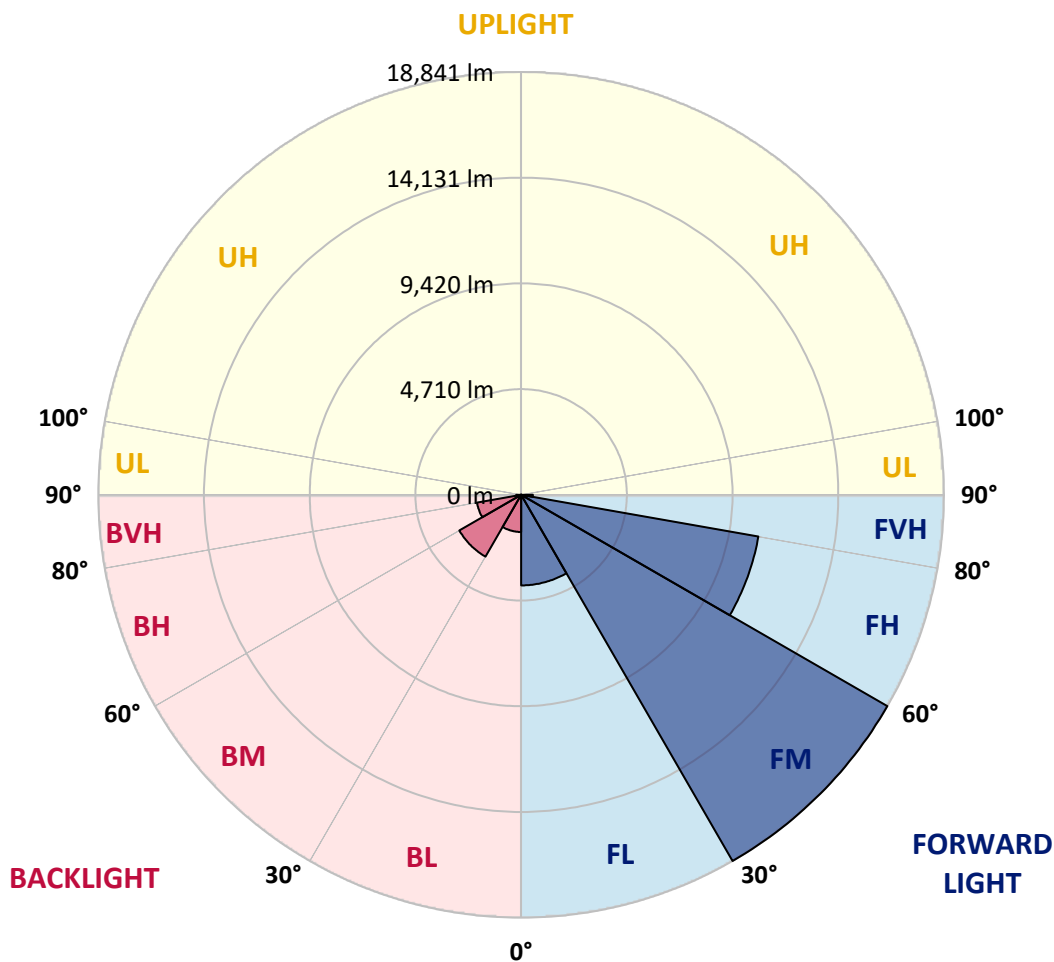
CATALOG NUMBER: PRV-M-PA6B-8540-U-T2R

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 4035.4  | 9.8       |                         |      |          |
| FM   | (30°-60°)   | 18840.8 | 45.7      |                         |      |          |
| FH   | (60°-80°)   | 10732.4 | 26.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 524.2   | 1.3       |                         |      | G4/750   |
| BL   | (0°-30°)    | 1655.6  | 4.0       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3178.5  | 7.7       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1998.1  | 4.9       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 217.6   | 0.5       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Medium



REPORT NUMBER: P622684

CATALOG NUMBER: PRV-M-PA6B-8540-U-T2R

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5031.6  | 5031.6  | 5031.6  | 5031.6  | 5031.6  | 5031.6  | 5031.6  | 5031.6  | 5031.6  | 5031.6  | 5031.6  |
| 2.5°  | 6401.3  | 6275.7  | 6257.9  | 6242.0  | 6126.3  | 5950.1  | 5836.2  | 5603.7  | 5403.8  | 5371.1  | 5176.1  |
| 5°    | 7308.9  | 7236.7  | 7188.2  | 7140.6  | 7001.1  | 6855.6  | 6575.6  | 6213.3  | 5810.6  | 5754.1  | 5358.2  |
| 7.5°  | 7828.5  | 7766.2  | 7743.4  | 7713.7  | 7615.8  | 7479.1  | 7217.9  | 6799.3  | 6253.9  | 6194.5  | 5592.8  |
| 10°   | 8310.5  | 8225.4  | 8208.6  | 8197.7  | 8132.4  | 8005.7  | 7807.8  | 7377.2  | 6743.8  | 6646.8  | 5892.7  |
| 12.5° | 8733.1  | 8665.8  | 8675.7  | 8665.8  | 8646.0  | 8571.8  | 8382.7  | 7956.2  | 7248.5  | 7138.7  | 6203.5  |
| 15°   | 9017.2  | 8937.9  | 9008.3  | 9089.4  | 9133.9  | 9138.9  | 8964.7  | 8544.1  | 7742.4  | 7643.4  | 6553.8  |
| 17.5° | 9162.7  | 9080.5  | 9186.4  | 9342.8  | 9526.8  | 9618.9  | 9546.6  | 9161.6  | 8297.6  | 8173.0  | 6930.9  |
| 20°   | 9458.6  | 9359.6  | 9456.6  | 9605.1  | 9863.4  | 10057.3 | 10125.6 | 9801.0  | 8873.7  | 8732.1  | 7327.7  |
| 22.5° | 10094.0 | 9986.1  | 10013.8 | 10069.2 | 10270.1 | 10479.9 | 10626.4 | 10447.3 | 9461.5  | 9310.1  | 7737.4  |
| 25°   | 11194.5 | 11096.5 | 10967.9 | 10840.2 | 10878.8 | 10975.8 | 11083.7 | 11088.6 | 10072.2 | 9901.0  | 8162.1  |
| 27.5° | 12730.5 | 12497.9 | 12269.3 | 11920.9 | 11712.1 | 11615.1 | 11571.6 | 11719.0 | 10713.5 | 10537.3 | 8575.7  |
| 30°   | 14273.5 | 14056.7 | 13721.2 | 13275.8 | 12786.9 | 12490.0 | 12189.1 | 12326.7 | 11407.3 | 11209.3 | 9000.4  |
| 32.5° | 15608.6 | 15397.8 | 15056.3 | 14554.5 | 13975.5 | 13564.8 | 12968.0 | 12971.0 | 12209.9 | 11962.5 | 9500.1  |
| 35°   | 16782.4 | 16495.3 | 16149.9 | 15627.3 | 15061.2 | 14560.4 | 13883.5 | 13661.8 | 13146.2 | 12868.1 | 10104.8 |
| 37.5° | 17665.2 | 17363.3 | 17010.0 | 16495.3 | 15992.5 | 15619.4 | 14888.0 | 14421.9 | 14145.8 | 13886.5 | 10770.9 |
| 40°   | 18255.0 | 17952.2 | 17633.5 | 17172.3 | 16753.6 | 16533.9 | 16064.8 | 15282.9 | 15188.9 | 14894.0 | 11504.3 |
| 42.5° | 18522.3 | 18230.3 | 18027.4 | 17640.4 | 17328.7 | 17302.0 | 17076.3 | 16250.9 | 16311.2 | 16006.4 | 12309.9 |
| 45°   | 18412.4 | 18156.0 | 18058.1 | 17852.2 | 17688.9 | 17870.0 | 18095.7 | 17275.2 | 17497.9 | 17208.9 | 13169.0 |
| 47.5° | 17886.9 | 17683.0 | 17751.2 | 17756.2 | 17799.8 | 18267.9 | 18902.2 | 18345.1 | 18696.4 | 18412.4 | 14215.1 |
| 50°   | 16790.3 | 16681.4 | 17021.9 | 17352.4 | 17643.3 | 18475.7 | 19645.5 | 19519.9 | 20248.3 | 19930.6 | 15526.4 |
| 52.5° | 14393.2 | 14545.6 | 15530.3 | 16360.7 | 17185.1 | 18450.0 | 20239.4 | 20814.3 | 21942.6 | 21628.9 | 16823.9 |
| 55°   | 11422.1 | 11590.4 | 12836.4 | 14684.1 | 16267.7 | 18149.1 | 20568.9 | 21736.8 | 23235.2 | 23009.6 | 17976.9 |
| 57.5° | 9166.6  | 9277.5  | 10160.3 | 12243.5 | 14608.0 | 17437.5 | 20744.1 | 22436.5 | 24571.2 | 24325.9 | 19299.1 |
| 60°   | 7294.1  | 7413.8  | 8071.0  | 9653.5  | 12318.8 | 16110.3 | 20705.5 | 23037.3 | 26207.2 | 25992.5 | 20769.9 |
| 62.5° | 5503.7  | 5464.2  | 6034.2  | 7361.4  | 9834.6  | 14067.6 | 20127.5 | 23449.0 | 28048.1 | 27887.7 | 22210.8 |
| 65°   | 3501.6  | 3639.1  | 4110.2  | 5141.5  | 7395.0  | 11489.4 | 18720.2 | 23418.3 | 29812.7 | 29734.5 | 23404.4 |
| 67.5° | 2266.4  | 2262.5  | 2576.2  | 3383.8  | 5040.6  | 8712.4  | 16292.4 | 22755.2 | 30890.5 | 30861.8 | 24108.1 |
| 68°   | 2077.4  | 2076.4  | 2347.6  | 3071.0  | 4614.0  | 8159.1  | 15684.7 | 22508.7 | 30994.4 | 30961.8 | 24110.1 |
| 70°   | 1633.0  | 1631.0  | 1750.8  | 2070.5  | 3164.1  | 6028.2  | 12764.2 | 21055.9 | 30709.4 | 30702.4 | 23574.6 |
| 72.5° | 1412.3  | 1408.3  | 1444.0  | 1519.2  | 1946.8  | 3842.0  | 8914.2  | 18183.8 | 28733.9 | 28632.0 | 21754.6 |
| 75°   | 1268.8  | 1263.8  | 1285.6  | 1281.7  | 1412.3  | 2350.6  | 5510.7  | 14680.2 | 24495.1 | 24179.4 | 17060.5 |
| 77.5° | 1121.3  | 1115.4  | 1136.2  | 1134.2  | 1195.6  | 1578.6  | 3027.5  | 10513.6 | 17828.4 | 16793.2 | 10575.0 |
| 80°   | 955.0   | 950.1   | 974.8   | 980.8   | 1049.1  | 1187.7  | 1564.7  | 6505.3  | 9280.4  | 8466.9  | 4435.9  |
| 82.5° | 757.1   | 765.1   | 808.6   | 824.4   | 894.7   | 862.0   | 971.9   | 3026.5  | 3341.2  | 2935.5  | 1359.8  |
| 85°   | 478.0   | 501.7   | 611.6   | 636.3   | 691.8   | 551.2   | 671.0   | 1227.2  | 1077.8  | 972.9   | 359.2   |
| 87.5° | 178.1   | 197.9   | 350.4   | 353.3   | 352.4   | 222.7   | 342.4   | 433.5   | 346.4   | 313.7   | 111.8   |
| 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: P622684

CATALOG NUMBER: PRV-M-PA6B-8540-U-T2R

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5031.6  | 5031.6 | 5031.6 | 5031.6 | 5031.6 | 5031.6 | 5031.6 | 5031.6 | 5031.6 | 5031.6 | 5031.6 |
| 2.5°  | 5084.1  | 4958.4 | 4771.4 | 4599.1 | 4457.6 | 4345.8 | 4233.9 | 4189.4 | 4144.9 | 4137.9 | 4091.4 |
| 5°    | 5150.4  | 4926.7 | 4576.4 | 4310.2 | 4126.0 | 3998.4 | 3917.2 | 3881.6 | 3857.8 | 3848.9 | 3808.4 |
| 7.5°  | 5271.2  | 4944.6 | 4462.6 | 4152.8 | 3987.5 | 3911.3 | 3884.5 | 3881.6 | 3880.6 | 3882.6 | 3837.1 |
| 10°   | 5447.3  | 5018.8 | 4419.0 | 4102.3 | 3982.6 | 3946.9 | 3946.9 | 3956.8 | 3956.8 | 3963.8 | 3919.2 |
| 12.5° | 5647.2  | 5110.8 | 4407.1 | 4110.2 | 4024.2 | 3997.4 | 3993.5 | 4000.3 | 3990.5 | 3992.4 | 3947.9 |
| 15°   | 5868.9  | 5220.7 | 4418.0 | 4134.9 | 4049.8 | 4009.3 | 3979.6 | 3965.7 | 3939.0 | 3927.1 | 3886.6 |
| 17.5° | 6118.3  | 5349.3 | 4435.9 | 4141.9 | 4030.0 | 3958.8 | 3890.5 | 3843.0 | 3802.4 | 3797.5 | 3749.0 |
| 20°   | 6388.5  | 5487.9 | 4442.7 | 4107.2 | 3954.9 | 3842.0 | 3740.1 | 3669.8 | 3610.4 | 3584.7 | 3550.0 |
| 22.5° | 6682.4  | 5627.4 | 4409.1 | 4006.3 | 3816.3 | 3668.8 | 3542.1 | 3450.1 | 3366.0 | 3336.3 | 3291.7 |
| 25°   | 6982.3  | 5755.1 | 4332.9 | 3868.7 | 3630.2 | 3460.0 | 3298.7 | 3178.9 | 3082.9 | 3043.4 | 3002.7 |
| 27.5° | 7273.3  | 5855.0 | 4210.2 | 3687.6 | 3426.3 | 3228.4 | 3038.4 | 2892.9 | 2793.0 | 2760.3 | 2725.6 |
| 30°   | 7563.3  | 5937.2 | 4035.0 | 3491.6 | 3218.5 | 2991.8 | 2787.0 | 2646.5 | 2560.3 | 2507.9 | 2474.3 |
| 32.5° | 7913.6  | 6020.3 | 3859.8 | 3289.8 | 3004.8 | 2759.3 | 2582.1 | 2473.3 | 2366.4 | 2304.1 | 2273.4 |
| 35°   | 8322.4  | 6113.4 | 3656.0 | 3083.9 | 2784.0 | 2561.3 | 2453.5 | 2312.0 | 2184.3 | 2136.7 | 2112.0 |
| 37.5° | 8800.4  | 6203.5 | 3444.2 | 2877.1 | 2571.2 | 2435.7 | 2348.5 | 2175.3 | 2078.4 | 2050.7 | 2032.8 |
| 40°   | 9334.8  | 6285.6 | 3195.7 | 2673.2 | 2378.3 | 2343.6 | 2233.7 | 2095.2 | 2021.0 | 1984.4 | 1964.5 |
| 42.5° | 9920.8  | 6352.9 | 2992.9 | 2459.4 | 2226.9 | 2232.7 | 2134.8 | 2054.6 | 1950.7 | 1907.2 | 1890.3 |
| 45°   | 10584.8 | 6454.8 | 2801.8 | 2248.6 | 2099.1 | 2099.1 | 2062.5 | 1978.4 | 1887.3 | 1860.6 | 1849.8 |
| 47.5° | 11449.8 | 6596.4 | 2601.0 | 2071.4 | 2011.1 | 1978.4 | 1984.4 | 1880.5 | 1838.9 | 1813.1 | 1804.2 |
| 50°   | 12445.5 | 6710.2 | 2397.1 | 1948.7 | 1950.7 | 1905.2 | 1868.6 | 1820.1 | 1791.3 | 1763.6 | 1745.9 |
| 52.5° | 13361.0 | 6712.1 | 2231.8 | 1880.5 | 1895.3 | 1853.7 | 1777.5 | 1763.6 | 1743.8 | 1699.3 | 1685.5 |
| 55°   | 14217.0 | 6677.5 | 2091.2 | 1844.8 | 1844.8 | 1799.3 | 1727.1 | 1715.2 | 1689.4 | 1645.9 | 1636.9 |
| 57.5° | 15193.9 | 6638.9 | 1988.3 | 1832.9 | 1815.1 | 1730.0 | 1689.4 | 1674.6 | 1633.0 | 1607.3 | 1598.3 |
| 60°   | 16248.9 | 6581.5 | 1912.1 | 1834.9 | 1798.3 | 1674.6 | 1656.7 | 1634.0 | 1591.4 | 1572.7 | 1564.7 |
| 62.5° | 17304.9 | 6415.2 | 1849.8 | 1841.9 | 1788.4 | 1645.9 | 1624.1 | 1594.4 | 1548.9 | 1534.1 | 1526.1 |
| 65°   | 17875.0 | 5977.8 | 1772.6 | 1833.9 | 1776.5 | 1629.0 | 1587.5 | 1546.9 | 1485.5 | 1479.6 | 1467.7 |
| 67.5° | 17698.8 | 5252.4 | 1651.8 | 1775.5 | 1759.7 | 1606.2 | 1540.0 | 1474.6 | 1399.5 | 1424.2 | 1412.3 |
| 68°   | 17539.4 | 5075.2 | 1621.1 | 1755.7 | 1753.8 | 1601.3 | 1529.1 | 1456.8 | 1381.6 | 1414.3 | 1394.5 |
| 70°   | 16471.6 | 4321.1 | 1470.7 | 1642.9 | 1706.2 | 1580.6 | 1473.7 | 1384.6 | 1299.5 | 1360.9 | 1330.2 |
| 72.5° | 14139.8 | 3330.3 | 1235.2 | 1440.0 | 1585.5 | 1544.9 | 1400.4 | 1271.7 | 1176.8 | 1180.7 | 1143.1 |
| 75°   | 10510.6 | 2303.0 | 992.7  | 1162.9 | 1396.5 | 1495.5 | 1314.3 | 1149.1 | 1030.3 | 990.7  | 974.8  |
| 77.5° | 5748.2  | 1502.3 | 774.9  | 882.8  | 1128.2 | 1365.8 | 1209.4 | 1014.5 | 878.8  | 841.3  | 820.4  |
| 80°   | 2386.2  | 891.7  | 600.7  | 651.2  | 782.8  | 1165.9 | 1132.2 | 875.9  | 724.4  | 692.8  | 664.1  |
| 82.5° | 789.8   | 546.3  | 445.4  | 441.4  | 511.7  | 908.5  | 998.6  | 689.8  | 556.2  | 579.0  | 479.0  |
| 85°   | 276.2   | 287.0  | 281.1  | 265.2  | 286.0  | 532.4  | 739.3  | 459.2  | 362.2  | 295.9  | 278.1  |
| 87.5° | 77.2    | 103.9  | 104.9  | 83.2   | 85.1   | 122.7  | 333.6  | 209.8  | 127.7  | 85.1   | 75.2   |
| 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)