

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: P622768

Luminaire Tested: **PRV-M-PA6C-740-U-T3-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-11)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-PA6C-740-U-T3-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K LIGHT ENGINES AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44879 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

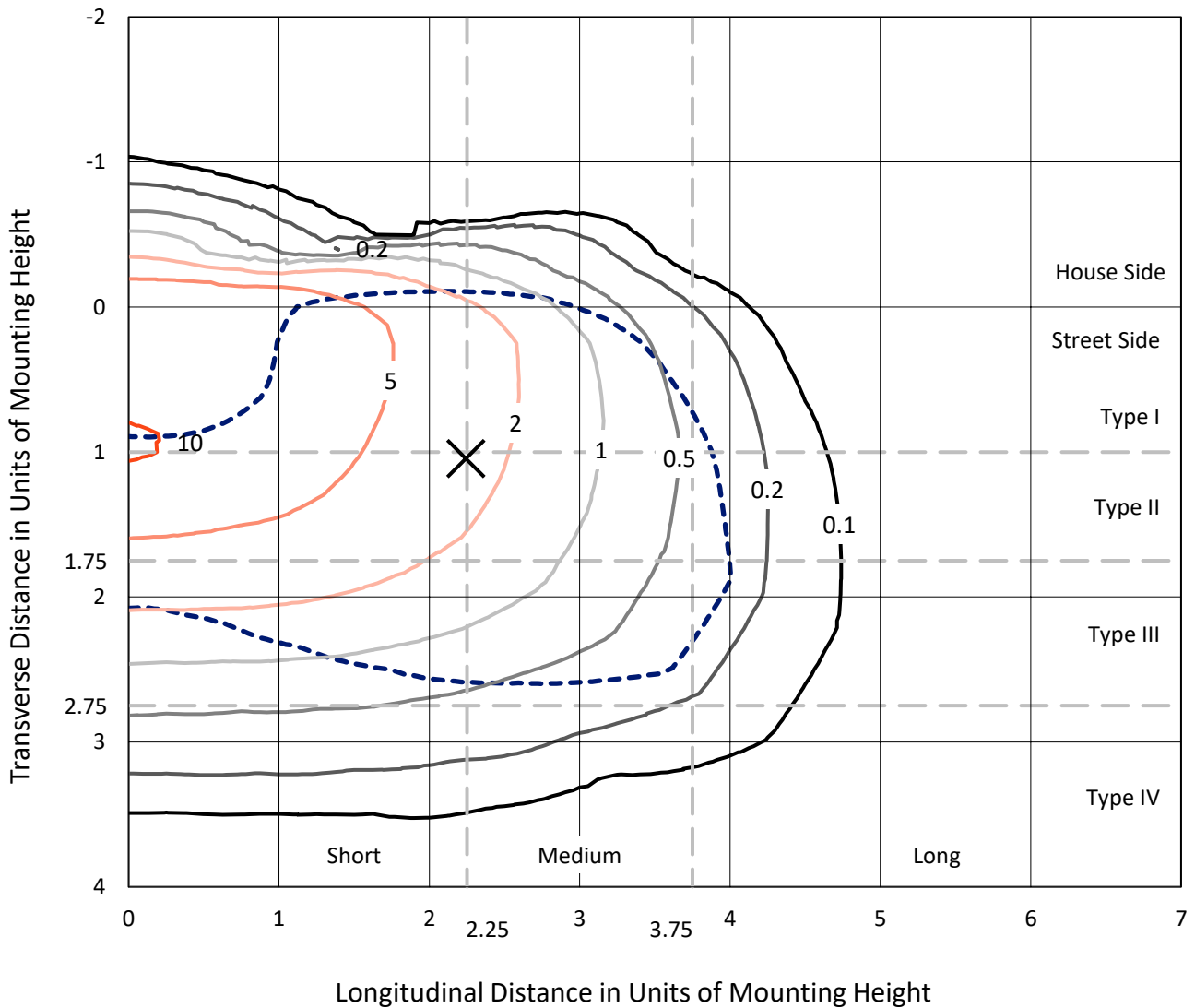
Input Watts (W): 457.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P622768
 CATALOG NUMBER: PRV-M-PA6C-740-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

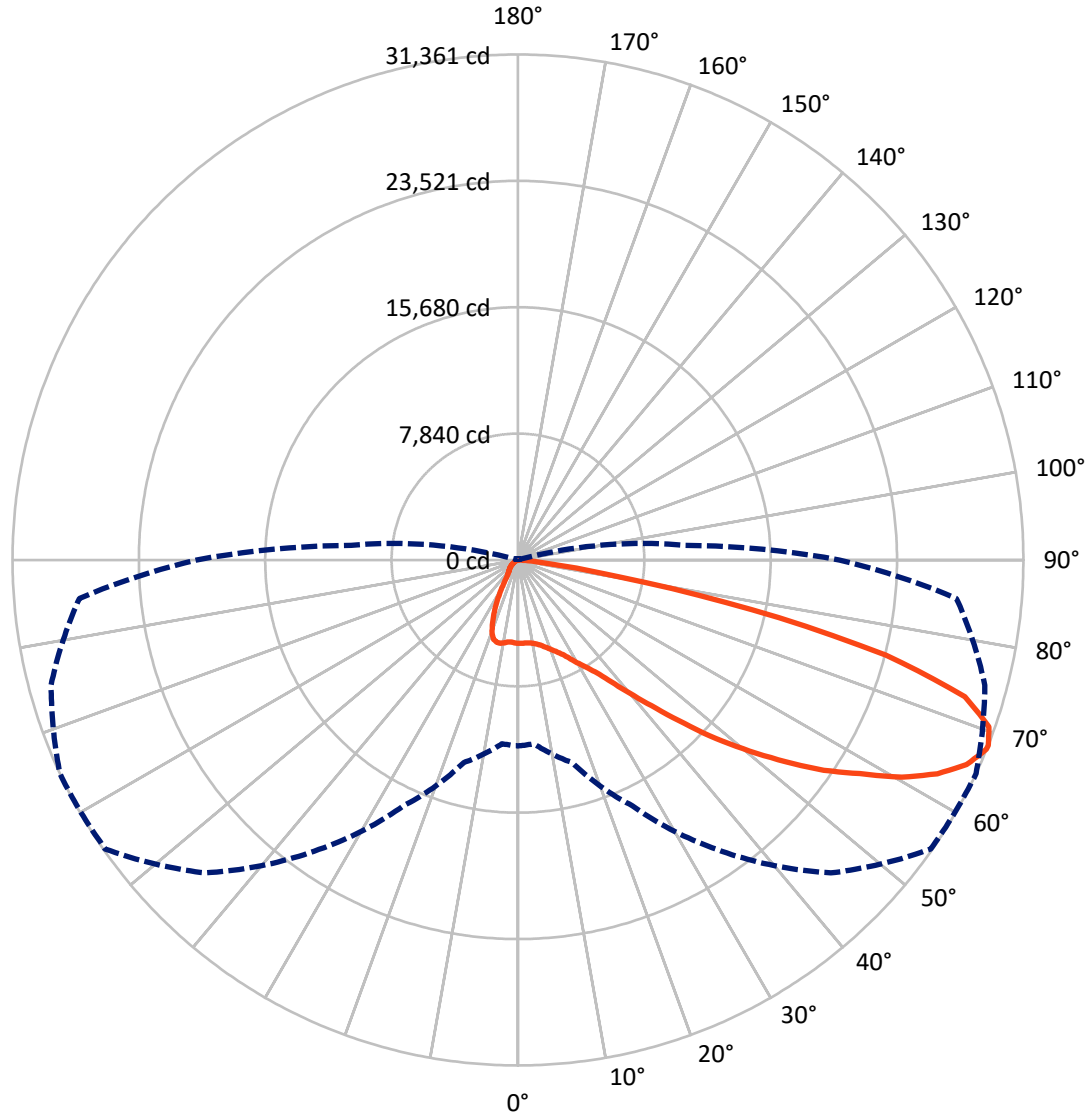
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Short - N/A

REPORT NUMBER: P622768
CATALOG NUMBER: PRV-M-PA6C-740-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P622768
 CATALOG NUMBER: PRV-M-PA6C-740-U-T3-HSS

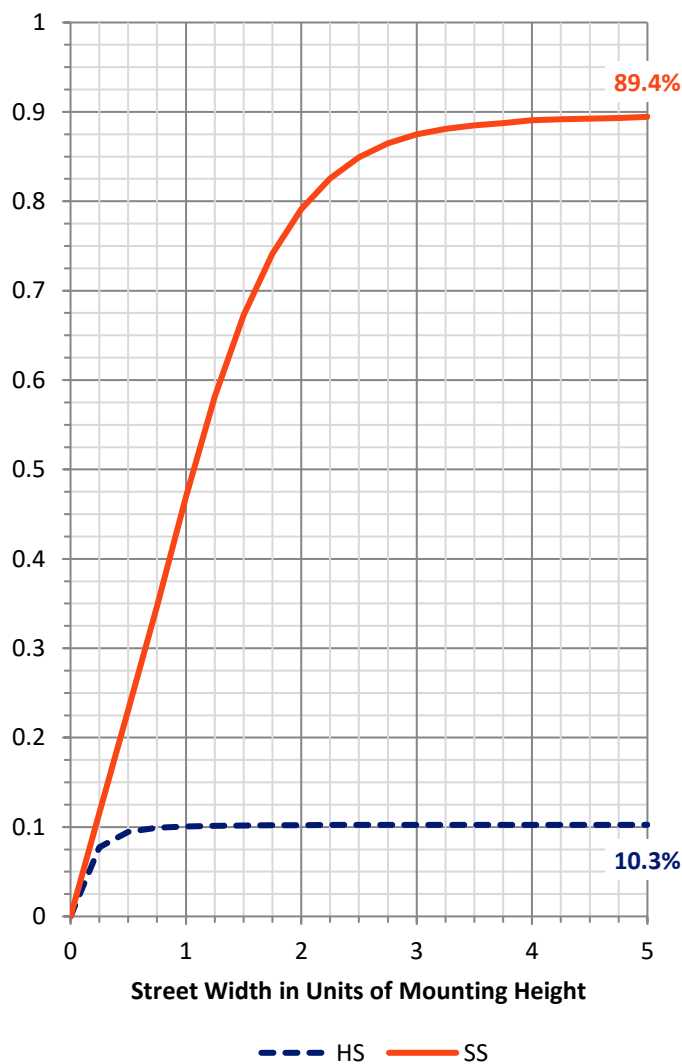
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4643.3 | 0.0 | 4643.3 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 40235.7 | 0.0 | 40235.7 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 44879.0 | 0.0 | 44879.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 481.8 | 1.1 |
| 10°-20° | 1266.9 | 2.8 |
| 20°-30° | 2005.4 | 4.5 |
| 30°-40° | 3501.2 | 7.8 |
| 40°-50° | 6792.9 | 15.1 |
| 50°-60° | 11008.9 | 24.5 |
| 60°-70° | 12796.5 | 28.5 |
| 70°-80° | 6643.7 | 14.8 |
| 80°-90° | 381.8 | 0.9 |
| 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° | 44879.0 | 100.0 |
| 0°-180° | 44879.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P622768

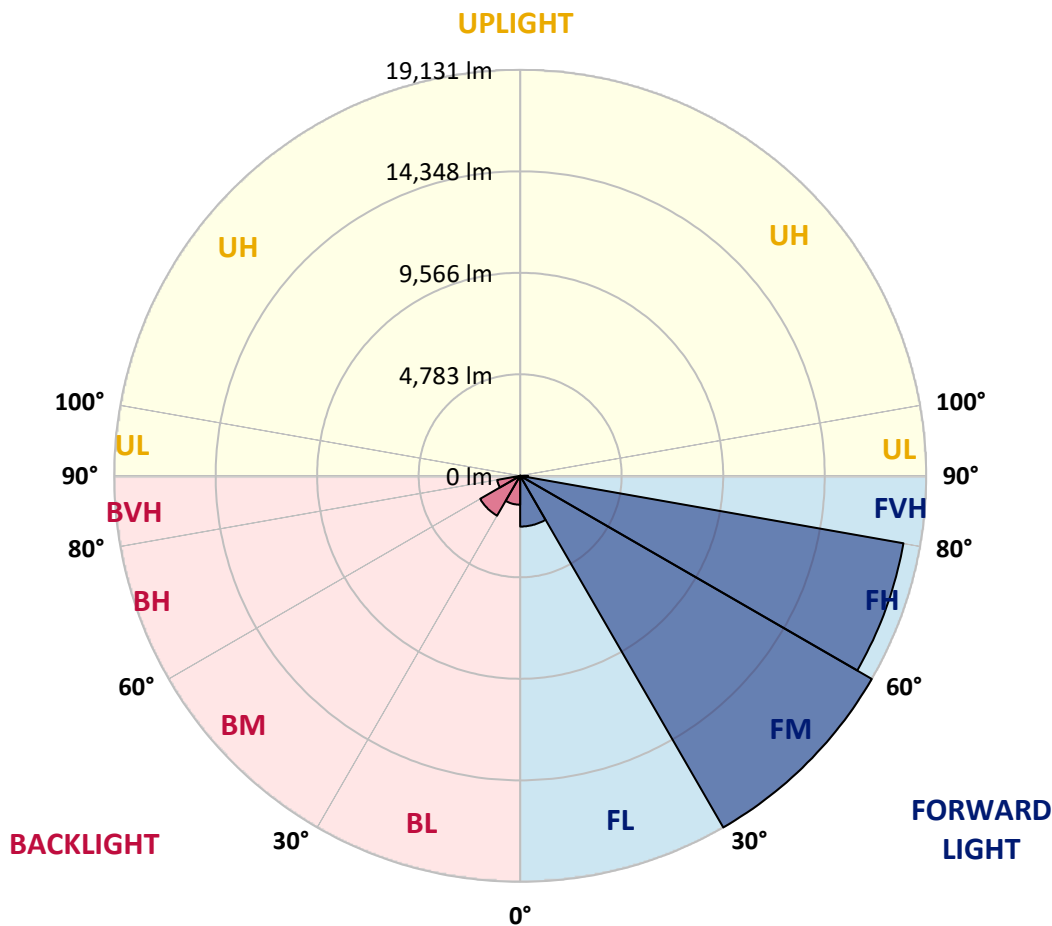
CATALOG NUMBER: PRV-M-PA6C-740-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2391.2 | 5.3 | | | |
| FM (30°-60°) | 19131.0 | 42.6 | | | |
| FH (60°-80°) | 18339.9 | 40.9 | | | G5 |
| FVH (80°-90°) | 373.6 | 0.8 | | | G3/500 |
| BL (0°-30°) | 1362.8 | 3.0 | B3/2500 | | |
| BM (30°-60°) | 2172.0 | 4.8 | B2/2500 | | |
| BH (60°-80°) | 1100.3 | 2.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 8.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Short





REPORT NUMBER: P622768

CATALOG NUMBER: PRV-M-PA6C-740-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5172.5 | 5172.5 | 5172.5 | 5172.5 | 5172.5 | 5172.5 | 5172.5 | 5172.5 | 5172.5 | 5172.5 | 5172.5 |
| 2.5° | 5235.0 | 5190.4 | 5193.3 | 5188.9 | 5172.5 | 5184.4 | 5177.0 | 5174.0 | 5162.1 | 5157.6 | 5156.1 |
| 5° | 5145.7 | 5104.1 | 5117.4 | 5129.3 | 5129.3 | 5159.1 | 5165.1 | 5168.0 | 5154.6 | 5147.2 | 5138.3 |
| 7.5° | 5005.8 | 4971.6 | 4993.9 | 5035.6 | 5065.4 | 5132.3 | 5168.0 | 5194.8 | 5191.8 | 5193.3 | 5182.9 |
| 10° | 4889.8 | 4857.0 | 4900.2 | 4962.7 | 5023.7 | 5121.9 | 5191.8 | 5258.8 | 5297.5 | 5324.3 | 5321.3 |
| 12.5° | 4851.1 | 4822.8 | 4863.0 | 4937.4 | 5016.3 | 5130.8 | 5236.5 | 5358.5 | 5450.8 | 5504.3 | 5496.9 |
| 15° | 4857.0 | 4827.3 | 4867.4 | 4947.8 | 5034.1 | 5168.0 | 5322.8 | 5511.8 | 5648.7 | 5697.8 | 5706.7 |
| 17.5° | 4904.7 | 4868.9 | 4900.2 | 4974.6 | 5077.3 | 5248.4 | 5465.7 | 5702.3 | 5874.9 | 5940.3 | 5938.9 |
| 20° | 4968.6 | 4928.5 | 4956.7 | 5023.7 | 5144.2 | 5373.4 | 5647.2 | 5932.9 | 6135.3 | 6200.8 | 6191.8 |
| 22.5° | 5063.9 | 5019.2 | 5040.1 | 5105.5 | 5260.3 | 5550.5 | 5861.5 | 6191.8 | 6415.0 | 6479.0 | 6452.2 |
| 25° | 5324.3 | 5254.3 | 5212.7 | 5223.1 | 5409.1 | 5769.2 | 6156.1 | 6505.8 | 6739.4 | 6763.2 | 6721.6 |
| 27.5° | 5989.4 | 5938.9 | 5729.0 | 5525.2 | 5590.6 | 6005.8 | 6534.1 | 6944.8 | 7156.1 | 7118.9 | 7062.3 |
| 30° | 7360.0 | 7168.0 | 6837.6 | 6309.4 | 5998.4 | 6258.8 | 6898.7 | 7458.2 | 7650.1 | 7563.8 | 7455.2 |
| 32.5° | 8996.8 | 8770.6 | 8285.5 | 7520.7 | 6825.7 | 6688.8 | 7334.7 | 8002.8 | 8226.0 | 8059.3 | 7949.2 |
| 35° | 10609.9 | 10523.6 | 10019.1 | 9089.1 | 8072.7 | 7465.6 | 7922.4 | 8709.6 | 9020.6 | 8870.3 | 8755.8 |
| 37.5° | 12444.7 | 12242.3 | 11812.2 | 10736.4 | 9589.1 | 8590.6 | 8727.5 | 9757.2 | 10187.3 | 9970.0 | 9790.0 |
| 40° | 14286.9 | 14065.2 | 13633.6 | 12434.2 | 11331.6 | 10173.9 | 9891.1 | 11062.3 | 11651.5 | 11373.3 | 11072.7 |
| 42.5° | 16106.8 | 16081.5 | 15530.9 | 14425.3 | 13172.3 | 12141.1 | 11553.3 | 12574.1 | 13309.2 | 12992.3 | 12490.8 |
| 45° | 18456.4 | 18222.8 | 17527.9 | 16535.3 | 15471.4 | 14367.2 | 13627.7 | 14465.4 | 15347.9 | 14687.2 | 13888.1 |
| 47.5° | 19902.8 | 19768.9 | 19210.9 | 18590.4 | 17974.3 | 16938.6 | 15931.2 | 16551.7 | 17301.7 | 16434.2 | 15280.9 |
| 50° | 21134.9 | 20975.7 | 20579.9 | 20365.6 | 20335.9 | 19736.2 | 18411.8 | 18630.5 | 19264.4 | 18257.0 | 16618.7 |
| 52.5° | 21899.8 | 21751.0 | 21496.5 | 21800.1 | 22508.4 | 22658.7 | 20834.4 | 20785.2 | 21410.2 | 20075.4 | 17889.5 |
| 55° | 21917.7 | 21576.9 | 21777.8 | 22658.7 | 24295.6 | 24934.0 | 23326.9 | 23026.3 | 23256.9 | 22008.4 | 19078.4 |
| 57.5° | 21152.8 | 21032.3 | 21626.0 | 23042.6 | 25453.3 | 26622.9 | 25645.3 | 25008.4 | 25185.4 | 23893.8 | 20111.2 |
| 60° | 19588.8 | 19605.2 | 20910.2 | 22905.7 | 26149.7 | 27968.1 | 27801.5 | 27362.5 | 27118.4 | 25651.2 | 20911.7 |
| 62.5° | 17392.5 | 17504.1 | 19176.7 | 22076.9 | 26002.4 | 28667.5 | 29677.9 | 29206.2 | 28615.4 | 27118.4 | 21361.1 |
| 65° | 14940.1 | 14894.0 | 16691.6 | 20323.9 | 24675.0 | 28674.9 | 30938.3 | 30597.5 | 29743.4 | 27889.3 | 21233.2 |
| 67.5° | 12136.6 | 12039.9 | 13672.3 | 17520.4 | 22593.2 | 27743.4 | 31270.1 | 31347.5 | 30049.9 | 27558.9 | 20274.8 |
| 68° | 11534.0 | 11447.7 | 13013.1 | 16833.0 | 22059.0 | 27453.3 | 31259.7 | 31360.9 | 29988.9 | 27310.4 | 19954.9 |
| 70° | 9017.7 | 8929.9 | 10208.1 | 13630.6 | 19362.7 | 25703.3 | 30767.2 | 30999.3 | 29197.3 | 25627.4 | 18127.6 |
| 72.5° | 5062.4 | 5221.6 | 6368.9 | 9231.9 | 14444.6 | 22041.2 | 28764.2 | 28996.4 | 26320.8 | 20559.1 | 13641.1 |
| 75° | 1629.4 | 1611.6 | 2593.7 | 4446.3 | 8240.9 | 14911.9 | 23562.0 | 23575.4 | 19767.4 | 12452.1 | 7537.0 |
| 77.5° | 857.1 | 864.6 | 1044.6 | 1809.5 | 3346.7 | 6557.9 | 14426.8 | 14834.5 | 10237.9 | 4726.1 | 2574.3 |
| 80° | 534.2 | 543.1 | 647.3 | 1043.1 | 1822.9 | 2230.6 | 6306.4 | 6324.3 | 2956.8 | 1074.4 | 614.6 |
| 82.5° | 360.1 | 366.1 | 452.4 | 677.1 | 1212.8 | 912.2 | 1922.6 | 1901.7 | 837.8 | 339.3 | 205.4 |
| 85° | 171.1 | 174.1 | 291.7 | 464.3 | 593.7 | 378.0 | 555.0 | 587.8 | 415.2 | 160.7 | 87.8 |
| 87.5° | 35.7 | 40.2 | 147.3 | 202.4 | 178.6 | 74.4 | 156.2 | 125.0 | 169.6 | 65.5 | 40.2 |
| 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: P622768
 CATALOG NUMBER: PRV-M-PA6C-740-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5172.5 | 5172.5 | 5172.5 | 5172.5 | 5172.5 | 5172.5 | 5172.5 | 5172.5 | 5172.5 | 5172.5 |
| 2.5° | 5162.1 | 5166.6 | 5153.2 | 5129.3 | 5126.4 | 5120.4 | 5130.8 | 5127.9 | 5130.8 | 5096.6 |
| 5° | 5141.3 | 5135.3 | 5110.0 | 5081.7 | 5075.8 | 5065.4 | 5069.8 | 5057.9 | 5059.4 | 5014.8 |
| 7.5° | 5185.9 | 5168.0 | 5123.4 | 5065.4 | 4993.9 | 4904.7 | 4837.7 | 4766.3 | 4760.3 | 4706.7 |
| 10° | 5325.8 | 5297.5 | 5217.1 | 5040.1 | 4810.9 | 4499.9 | 4212.7 | 3947.8 | 3877.9 | 3773.7 |
| 12.5° | 5495.4 | 5453.7 | 5279.6 | 4915.1 | 4355.6 | 3709.7 | 3142.8 | 2852.6 | 2727.6 | 2668.1 |
| 15° | 5694.8 | 5613.0 | 5267.7 | 4540.1 | 3523.7 | 2668.1 | 2148.8 | 1840.7 | 1767.8 | 1717.2 |
| 17.5° | 5928.4 | 5764.8 | 5145.7 | 3824.3 | 2651.7 | 1863.1 | 1514.8 | 1425.6 | 1415.1 | 1413.7 |
| 20° | 6169.5 | 5882.3 | 4805.0 | 3047.6 | 1891.3 | 1425.6 | 1357.1 | 1325.9 | 1312.5 | 1308.0 |
| 22.5° | 6409.1 | 5947.8 | 4211.2 | 2309.5 | 1424.1 | 1316.9 | 1267.8 | 1223.2 | 1202.4 | 1186.0 |
| 25° | 6671.0 | 5938.9 | 3513.3 | 1669.6 | 1296.1 | 1230.6 | 1160.7 | 1098.2 | 1068.4 | 1047.6 |
| 27.5° | 6985.0 | 5793.0 | 2796.1 | 1319.9 | 1203.8 | 1122.0 | 1032.7 | 955.3 | 912.2 | 901.8 |
| 30° | 7348.0 | 5449.3 | 2108.6 | 1168.1 | 1086.3 | 1000.0 | 885.4 | 785.7 | 742.5 | 733.6 |
| 32.5° | 7800.4 | 4968.6 | 1492.5 | 1040.2 | 949.4 | 855.6 | 726.2 | 620.5 | 575.9 | 556.5 |
| 35° | 8432.8 | 4407.6 | 1139.9 | 919.6 | 812.5 | 697.9 | 564.0 | 483.6 | 444.9 | 437.5 |
| 37.5° | 9200.7 | 3825.8 | 973.2 | 812.5 | 690.5 | 552.1 | 433.0 | 376.5 | 351.2 | 346.7 |
| 40° | 10078.6 | 3236.5 | 869.0 | 712.8 | 575.9 | 428.6 | 336.3 | 291.7 | 281.2 | 279.8 |
| 42.5° | 10938.7 | 2587.7 | 788.7 | 622.0 | 467.3 | 331.8 | 257.4 | 232.1 | 229.2 | 230.6 |
| 45° | 11651.5 | 1913.6 | 709.8 | 538.7 | 370.5 | 255.9 | 203.9 | 187.5 | 192.0 | 194.9 |
| 47.5° | 12220.0 | 1336.3 | 633.9 | 452.4 | 290.2 | 206.8 | 168.2 | 157.7 | 165.2 | 168.2 |
| 50° | 12644.1 | 994.0 | 561.0 | 369.0 | 233.6 | 172.6 | 142.9 | 133.9 | 145.8 | 148.8 |
| 52.5° | 12913.4 | 821.4 | 479.2 | 296.1 | 194.9 | 148.8 | 120.5 | 113.1 | 128.0 | 132.4 |
| 55° | 13057.7 | 711.3 | 406.2 | 242.6 | 168.2 | 128.0 | 101.2 | 96.7 | 113.1 | 117.6 |
| 57.5° | 13031.0 | 617.5 | 339.3 | 203.9 | 150.3 | 113.1 | 84.8 | 81.8 | 99.7 | 105.7 |
| 60° | 12788.4 | 529.7 | 278.3 | 171.1 | 133.9 | 99.7 | 72.9 | 69.9 | 89.3 | 93.7 |
| 62.5° | 12358.4 | 437.5 | 224.7 | 145.8 | 120.5 | 89.3 | 62.5 | 59.5 | 75.9 | 80.4 |
| 65° | 11632.2 | 339.3 | 175.6 | 126.5 | 108.6 | 78.9 | 53.6 | 46.1 | 61.0 | 64.0 |
| 67.5° | 10638.2 | 260.4 | 141.4 | 108.6 | 98.2 | 71.4 | 44.6 | 35.7 | 46.1 | 49.1 |
| 68° | 10392.6 | 247.0 | 135.4 | 104.2 | 95.2 | 69.9 | 43.2 | 34.2 | 44.6 | 46.1 |
| 70° | 9154.6 | 203.9 | 114.6 | 90.8 | 86.3 | 62.5 | 37.2 | 26.8 | 34.2 | 35.7 |
| 72.5° | 6258.8 | 162.2 | 93.7 | 75.9 | 71.4 | 53.6 | 29.8 | 19.3 | 25.3 | 25.3 |
| 75° | 2061.0 | 123.5 | 72.9 | 55.1 | 52.1 | 40.2 | 20.8 | 13.4 | 16.4 | 16.4 |
| 77.5° | 452.4 | 81.8 | 47.6 | 34.2 | 31.2 | 25.3 | 13.4 | 6.0 | 8.9 | 8.9 |
| 80° | 142.9 | 41.7 | 26.8 | 19.3 | 17.9 | 13.4 | 7.4 | 1.5 | 1.5 | 3.0 |
| 82.5° | 55.1 | 20.8 | 19.3 | 14.9 | 11.9 | 8.9 | 4.5 | 0.0 | 0.0 | 0.0 |
| 85° | 28.3 | 14.9 | 14.9 | 11.9 | 8.9 | 6.0 | 3.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 16.4 | 13.4 | 13.4 | 10.4 | 7.4 | 3.0 | 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 |

(END OF REPORT)