

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: P622850

Luminaire Tested: **PRV-M-PA6D-8540-U-T3**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-10)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-PA6D-8540-U-T3
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 85 CRI, 4000K LIGHT ENGINES AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52582.4 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - 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: 28.75 FT

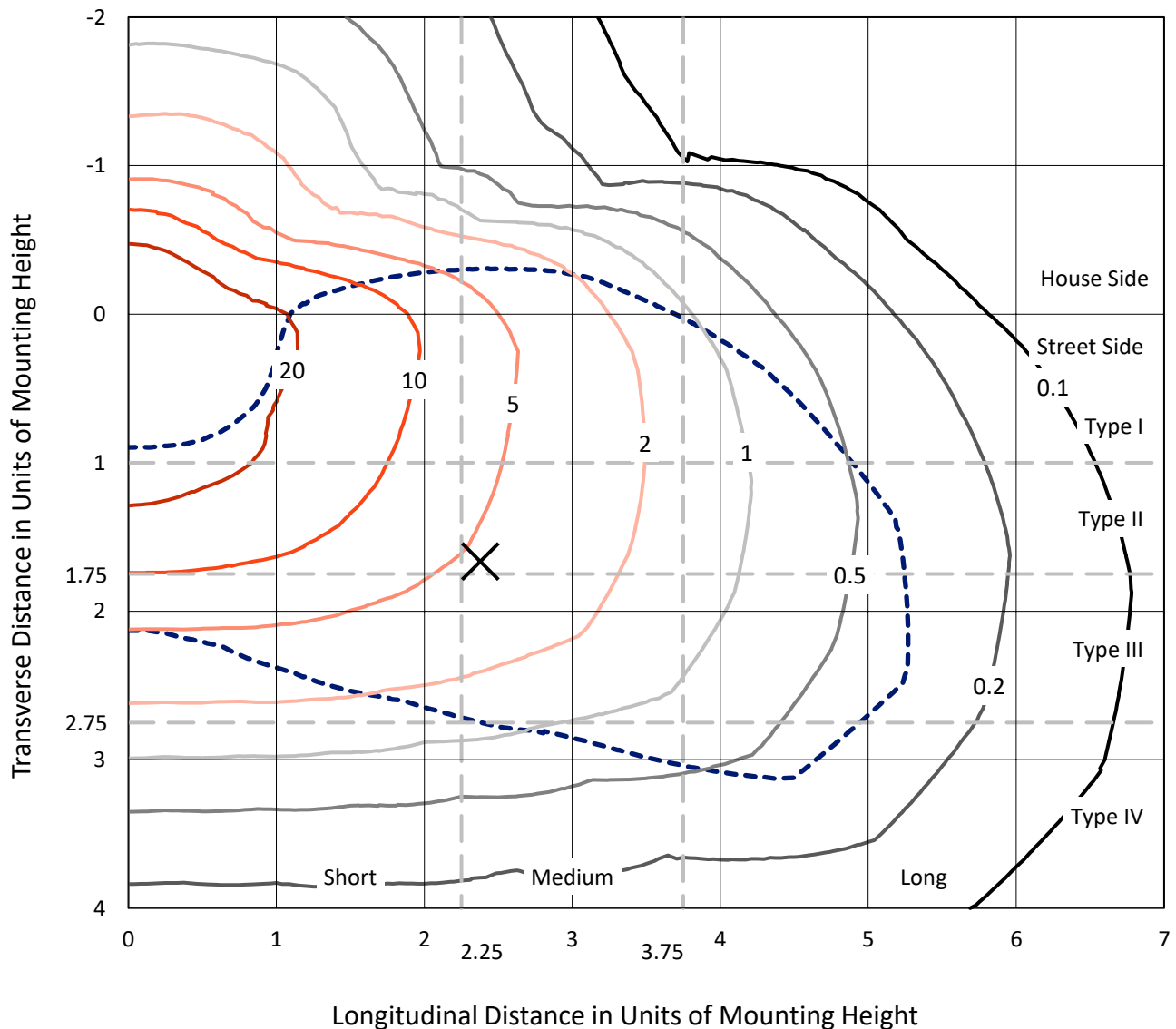


REPORT NUMBER: P622850

CATALOG NUMBER: PRV-M-PA6D-8540-U-T3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

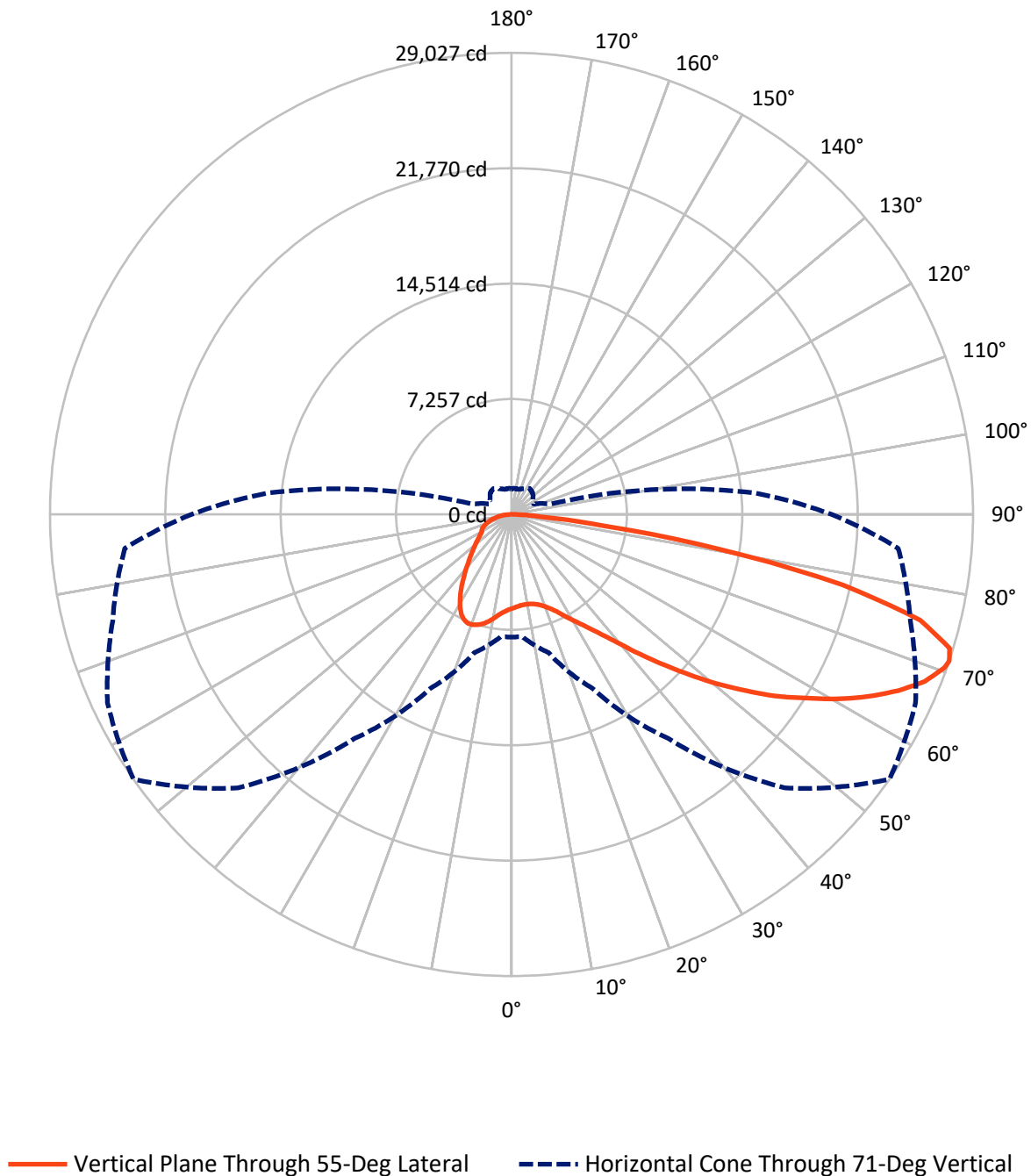


Based on 15 foot mounting height. Maximum calculated value = 29.1 fc
Type IV - Medium - N/A

REPORT NUMBER: P622850

CATALOG NUMBER: PRV-M-PA6D-8540-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P622850

CATALOG NUMBER: PRV-M-PA6D-8540-U-T3

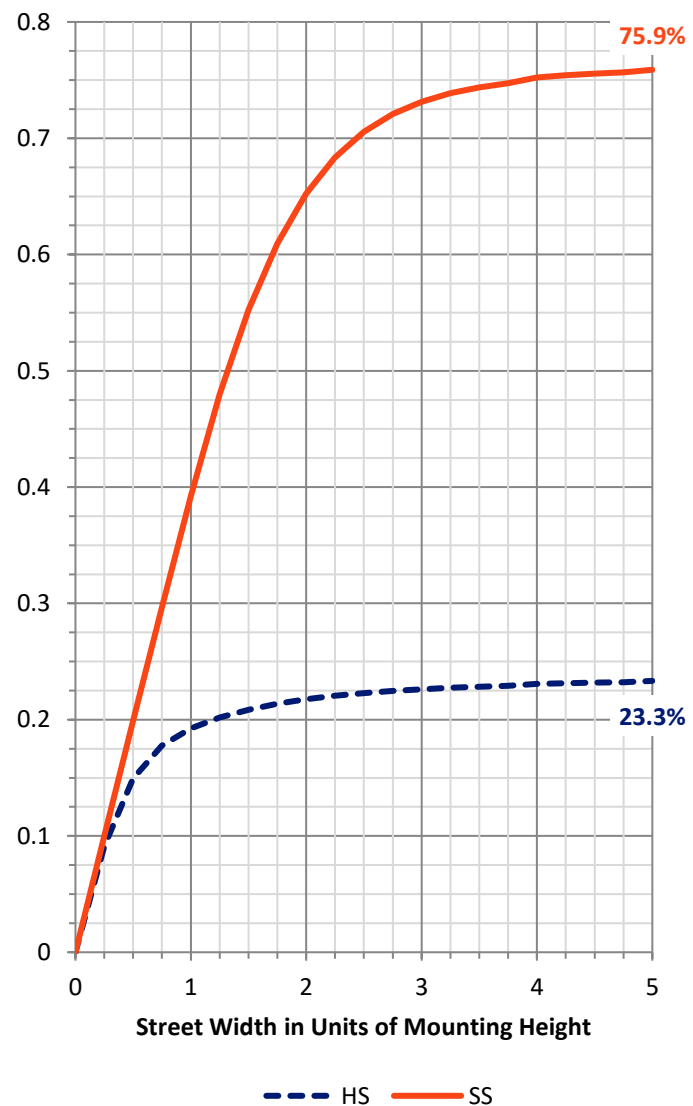
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12492.7	0.0	12492.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	40089.7	0.0	40089.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	52582.4	0.0	52582.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.9	1.1
10°-20°	1833.8	3.5
20°-30°	3232.7	6.1
30°-40°	4842.7	9.2
40°-50°	7578.3	14.4
50°-60°	11139.6	21.2
60°-70°	13047.1	24.8
70°-80°	8837.0	16.8
80°-90°	1494.1	2.8
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°	52582.4	100.0
0°-180°	52582.4	100.0

Coefficient of Utilization



REPORT NUMBER: P622850

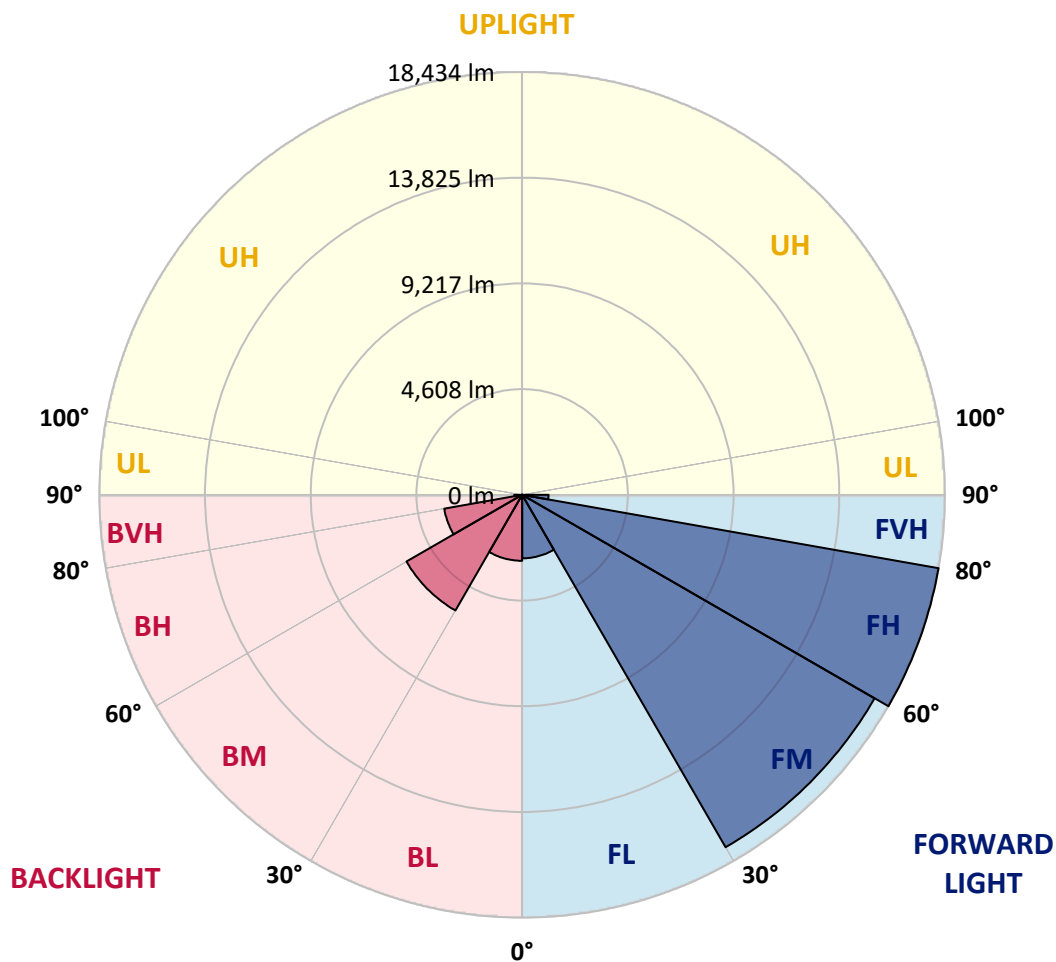
CATALOG NUMBER: PRV-M-PA6D-8540-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2766.3	5.3			
FM	(30°-60°)	17740.2	33.7			
FH	(60°-80°)	18433.7	35.1			G5
FVH	(80°-90°)	1149.6	2.2			G5
BL	(0°-30°)	2877.2	5.5	B4/5000		
BM	(30°-60°)	5820.5	11.1	B4/8500		
BH	(60°-80°)	3450.5	6.6	B4/5000		G4/5000
BVH	(80°-90°)	344.5	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



REPORT NUMBER: P622850

CATALOG NUMBER: PRV-M-PA6D-8540-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5918.1	5918.1	5918.1	5918.1	5918.1	5918.1	5918.1	5918.1	5918.1	5918.1	5918.1
2.5°	5828.7	5789.0	5790.4	5790.4	5785.2	5809.5	5822.3	5842.7	5861.9	5883.6	5905.3
5°	5679.2	5651.1	5660.0	5676.6	5686.9	5722.6	5752.0	5786.5	5818.5	5861.9	5891.3
7.5°	5536.1	5500.3	5528.4	5570.6	5601.3	5674.1	5727.7	5781.4	5828.7	5896.4	5939.8
10°	5460.7	5428.8	5463.2	5516.9	5566.7	5653.7	5734.1	5817.1	5901.5	6012.7	6066.3
12.5°	5486.2	5454.3	5481.2	5536.1	5587.2	5675.3	5769.9	5900.2	6022.8	6158.3	6228.6
15°	5608.9	5579.5	5597.4	5635.7	5665.2	5744.3	5860.6	6021.6	6173.6	6333.4	6407.4
17.5°	5886.2	5846.6	5827.4	5807.0	5812.1	5867.0	6001.1	6190.2	6361.5	6535.2	6609.3
20°	6293.8	6247.7	6210.7	6108.5	6045.9	6089.3	6208.2	6398.5	6581.2	6756.3	6829.1
22.5°	6855.9	6783.1	6703.9	6527.6	6401.0	6390.8	6464.9	6651.5	6827.8	6987.5	7073.1
25°	7393.8	7335.1	7254.6	7034.8	6839.3	6767.8	6815.0	6969.6	7115.3	7231.6	7305.6
27.5°	8018.5	7931.7	7782.2	7568.9	7347.8	7222.6	7267.3	7377.2	7483.2	7529.2	7572.7
30°	8690.6	8602.4	8444.0	8147.6	7887.0	7746.5	7755.4	7917.6	7945.7	7890.8	7912.5
32.5°	9558.2	9470.0	9282.2	8883.5	8541.1	8327.8	8312.4	8426.2	8428.7	8318.8	8313.7
35°	10656.9	10545.8	10278.8	9793.2	9338.4	9015.1	8987.0	9091.8	9099.5	8960.2	8918.1
37.5°	11883.5	11811.9	11562.8	10875.4	10277.5	9901.8	9800.9	9986.1	10039.9	9846.9	9760.0
40°	13285.1	13225.0	13046.2	12183.7	11429.9	10996.8	10861.4	11053.0	11174.3	10976.3	10862.6
42.5°	14855.3	14791.4	14426.0	13605.8	12835.3	12278.3	12140.3	12294.9	12563.2	12202.9	11981.9
45°	16555.9	16504.8	15918.3	15223.3	14447.8	13922.6	13527.8	13633.9	13922.6	13624.9	13241.6
47.5°	17882.1	17759.5	17351.8	16895.7	16314.4	15657.7	15052.1	15089.1	15322.9	15036.7	14446.4
50°	18865.9	18835.2	18501.7	18271.8	18278.2	17684.1	16727.1	16594.2	16835.7	16456.2	15749.7
52.5°	19738.5	19632.5	19351.4	19447.2	20024.8	19900.8	18394.4	18095.4	18412.3	17984.3	17087.4
55°	19922.5	19698.9	19840.8	20396.5	21490.2	21711.3	20161.4	19792.2	20042.6	19637.6	18474.9
57.5°	19460.0	19428.0	19930.2	20935.7	22620.9	23022.1	21793.0	21480.0	21497.9	21265.3	19830.5
60°	18340.8	18451.9	19558.4	21113.3	23515.3	24196.3	23560.0	23151.1	22948.0	22941.6	21094.1
62.5°	16590.4	16780.7	18271.8	20728.7	23766.9	25122.6	25199.2	24753.3	24289.5	24375.1	22122.6
65°	14357.0	14382.6	16071.6	19535.4	23175.4	25758.8	26718.4	26184.3	25419.0	25555.7	22659.2
67.5°	11749.3	11758.3	13346.4	17050.3	21772.6	25967.1	28025.4	27230.7	26061.6	25950.5	22406.2
70°	8911.6	8939.7	10177.8	13716.9	18854.4	25182.6	28887.8	27920.6	26148.5	25169.8	21057.1
71°	7708.1	7711.9	8990.9	12073.9	17202.4	24320.2	29027.1	28038.2	25972.2	24410.9	20125.7
72.5°	5763.5	5754.6	6868.7	9487.8	14359.6	22276.0	28817.5	27927.0	25468.8	22797.2	18297.3
75°	3025.5	3031.9	3634.9	5496.5	9116.1	16852.3	26547.1	26268.6	23404.1	18782.8	14244.6
77.5°	1583.0	1584.3	1915.2	2771.3	4745.2	9991.3	21276.9	22213.3	19493.2	13345.1	9361.4
80°	1055.3	1061.7	1238.1	1648.2	2602.6	4255.8	13310.6	15142.8	13103.7	7619.9	4880.7
82.5°	774.2	779.4	930.1	1132.0	1755.5	1890.9	5856.8	7862.7	6402.4	3230.0	2000.8
85°	595.4	598.0	727.0	778.1	1161.4	1046.4	1898.6	3182.7	2487.6	660.5	559.6
87.5°	304.1	328.4	472.7	426.7	568.5	414.0	659.3	741.0	635.0	219.8	178.8
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: P622850

CATALOG NUMBER: PRV-M-PA6D-8540-U-T3

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5918.1	5918.1	5918.1	5918.1	5918.1	5918.1	5918.1	5918.1	5918.1	5918.1
2.5°	5923.2	5966.7	5994.8	6010.1	6042.0	6075.3	6120.0	6139.1	6150.6	6105.9
5°	5925.7	6007.6	6079.1	6152.0	6235.0	6307.8	6393.4	6439.4	6458.6	6411.3
7.5°	5992.2	6111.0	6228.6	6346.1	6473.9	6572.3	6691.1	6754.9	6795.9	6757.5
10°	6141.7	6309.1	6468.8	6606.8	6729.4	6827.8	6930.0	6991.3	7029.7	6983.7
12.5°	6325.7	6535.2	6725.6	6875.1	6982.4	7045.0	7110.2	7143.4	7168.9	7126.8
15°	6516.0	6757.5	6962.0	7094.8	7148.5	7184.3	7200.9	7200.9	7212.4	7163.8
17.5°	6737.1	6981.1	7174.1	7252.0	7263.5	7230.2	7204.7	7171.5	7148.5	7101.2
20°	6960.7	7198.4	7363.2	7363.2	7267.3	7160.0	7056.5	6986.2	6949.2	6900.7
22.5°	7194.5	7413.0	7502.4	7374.6	7131.9	6932.6	6793.3	6686.0	6648.9	6604.2
25°	7423.2	7619.9	7576.5	7243.1	6871.2	6572.3	6385.8	6282.2	6232.4	6199.2
27.5°	7669.8	7812.9	7553.5	6987.5	6456.0	6136.6	5930.9	5791.6	5723.9	5683.0
30°	7994.3	8004.5	7427.0	6578.7	5966.7	5592.3	5373.8	5225.6	5186.0	5154.1
32.5°	8370.0	8182.1	7194.5	6081.6	5407.0	5011.0	4801.4	4715.9	4658.3	4643.0
35°	8943.6	8361.0	6881.5	5568.0	4823.1	4473.0	4293.0	4199.6	4119.1	4091.0
37.5°	9682.1	8516.8	6467.5	5002.0	4313.4	4010.5	3854.7	3709.1	3574.9	3545.5
40°	10544.5	8661.2	5985.8	4516.5	3898.2	3657.9	3477.8	3270.8	3074.1	3043.4
42.5°	11458.0	8755.8	5499.0	4051.5	3590.2	3374.3	3131.5	2888.8	2715.1	2665.2
45°	12404.8	8739.1	4982.9	3656.7	3348.7	3112.3	2850.4	2629.4	2468.4	2439.0
47.5°	13237.8	8624.2	4524.2	3320.6	3113.7	2888.8	2637.1	2441.6	2304.9	2275.5
50°	14110.4	8442.8	4129.4	3025.5	2902.8	2715.1	2474.8	2307.4	2181.0	2154.1
52.5°	14898.8	8265.2	3673.3	2762.3	2727.8	2580.8	2375.2	2252.5	2096.6	2060.9
55°	15693.4	8106.7	3212.0	2520.8	2586.0	2487.6	2343.2	2275.5	2106.8	2053.2
57.5°	16540.6	7892.1	2787.9	2327.9	2467.2	2479.9	2395.6	2334.3	2173.3	2097.9
60°	17339.1	7473.0	2434.0	2184.8	2417.4	2556.6	2404.5	2200.2	2094.1	2026.3
62.5°	17943.4	6698.7	2184.8	2108.1	2450.6	2537.4	2246.1	2034.0	1984.2	1947.2
65°	18096.7	5476.1	1968.9	2031.5	2344.5	2377.7	2097.9	1910.1	1917.8	1887.1
67.5°	17574.2	4089.8	1782.3	1878.2	2142.6	2204.0	1963.8	1793.9	1860.3	1828.3
70°	16171.3	2870.9	1611.1	1710.8	1962.5	2050.7	1834.7	1675.0	1723.5	1678.8
71°	15388.1	2483.8	1544.7	1638.0	1889.7	1989.3	1779.8	1627.7	1650.7	1594.5
72.5°	13705.4	2032.7	1446.3	1526.8	1775.9	1894.8	1705.7	1542.1	1520.4	1483.4
75°	9859.7	1534.4	1276.4	1336.4	1585.6	1731.2	1548.5	1400.3	1337.7	1316.0
77.5°	5904.1	1189.5	1091.1	1134.6	1406.7	1551.0	1390.1	1247.0	1192.0	1170.4
80°	2702.2	932.7	896.9	931.4	1201.0	1371.0	1241.9	1105.2	1037.5	1009.4
82.5°	1106.5	707.8	683.6	727.0	999.1	1170.4	1065.6	934.0	895.7	799.8
85°	512.3	465.1	459.9	495.7	702.7	861.1	781.9	683.6	583.9	566.0
87.5°	232.6	217.2	186.5	230.0	356.5	490.6	449.8	384.6	237.6	227.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)