

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: P381386

Luminaire Tested: **PRV-XL-PA4A-8540-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA4A-8540-U-T2U-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 85 CRI, 4000K, 785mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18579 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 245
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

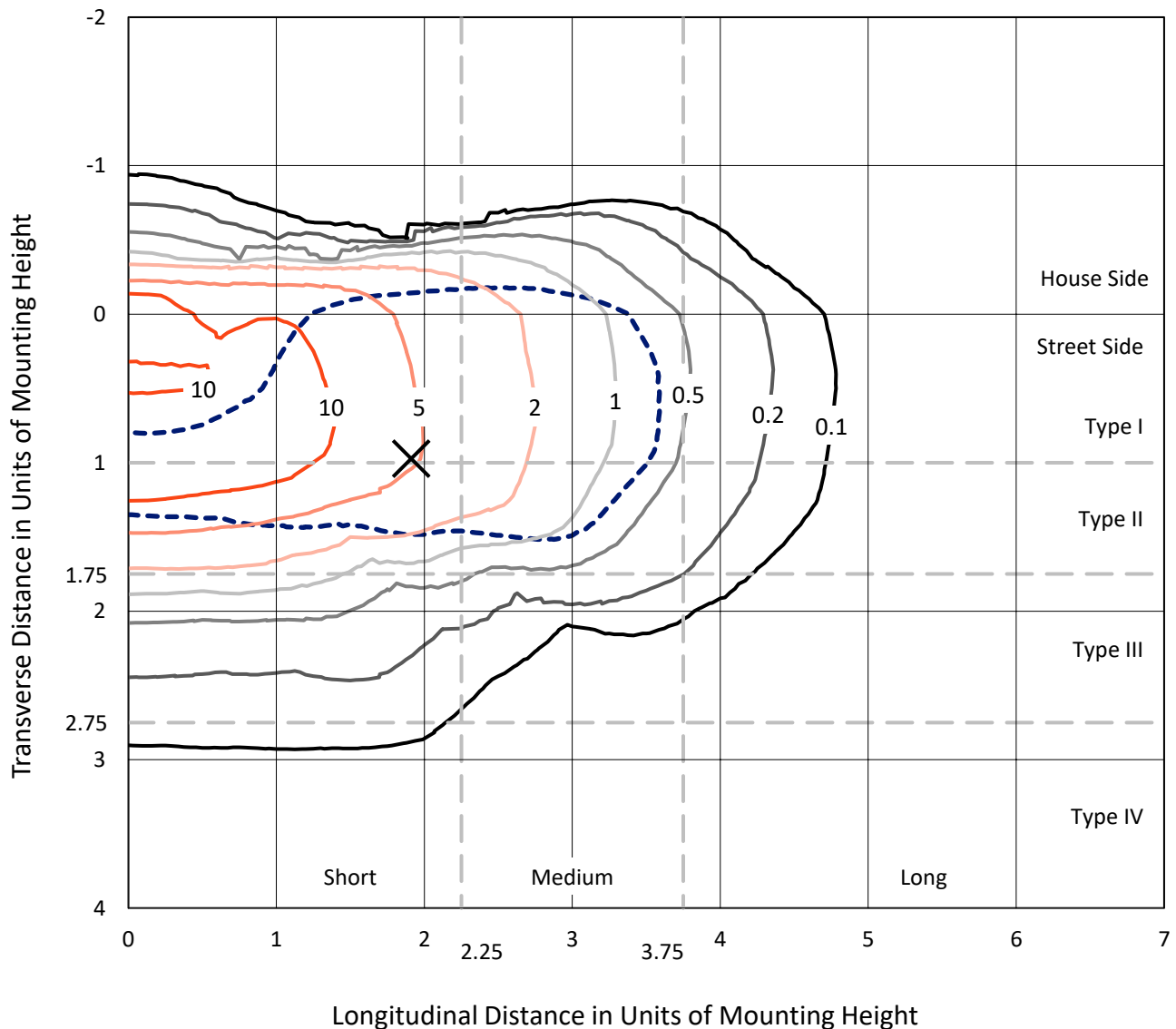


REPORT NUMBER: P381386

CATALOG NUMBER: PRV-XL-PA4A-8540-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

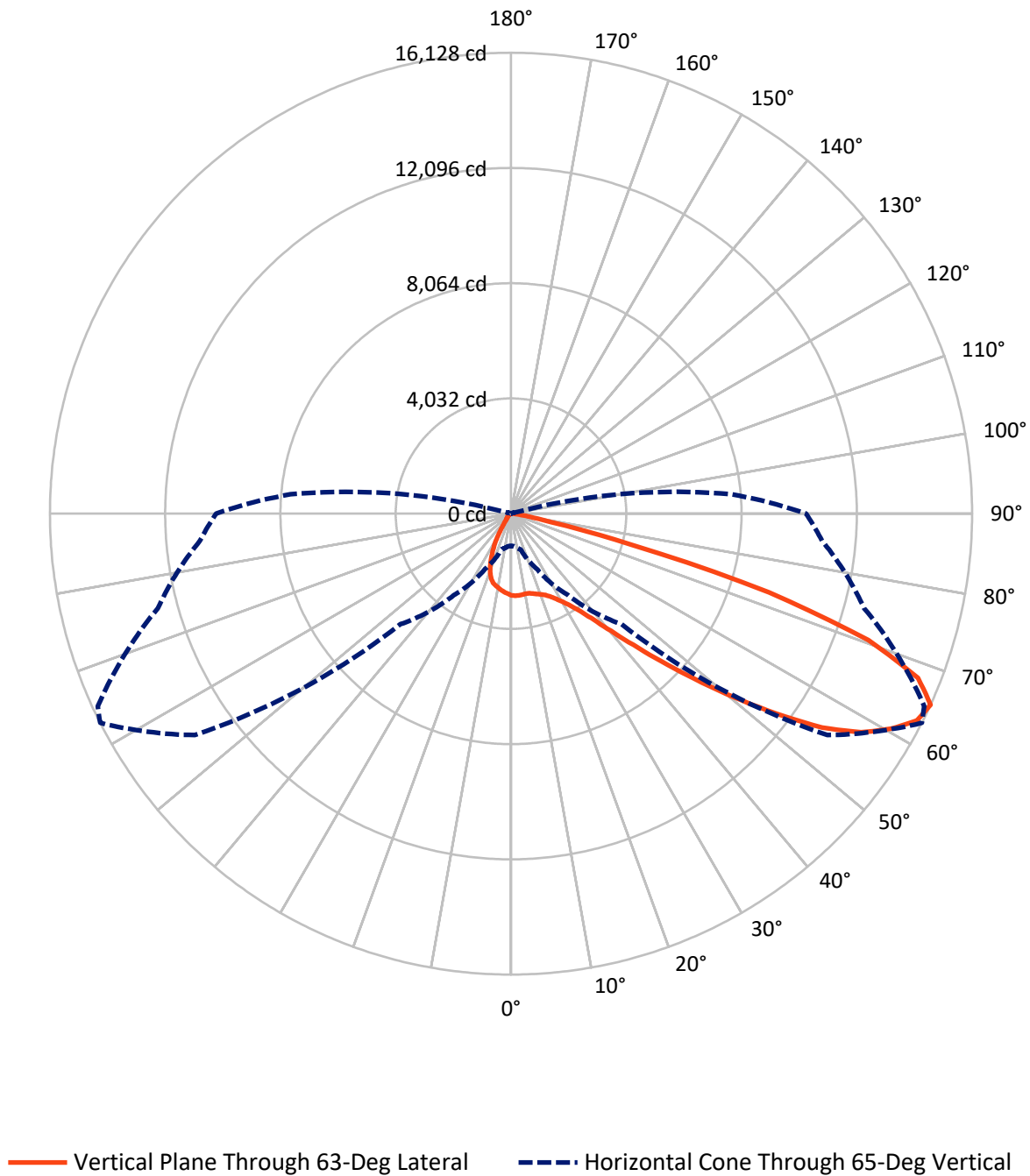


Based on 15 foot mounting height. Maximum calculated value = 17.8 fc
 Type II - Short - N/A

REPORT NUMBER: P381386

CATALOG NUMBER: PRV-XL-PA4A-8540-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P381386

CATALOG NUMBER: PRV-XL-PA4A-8540-U-T2U-HSS

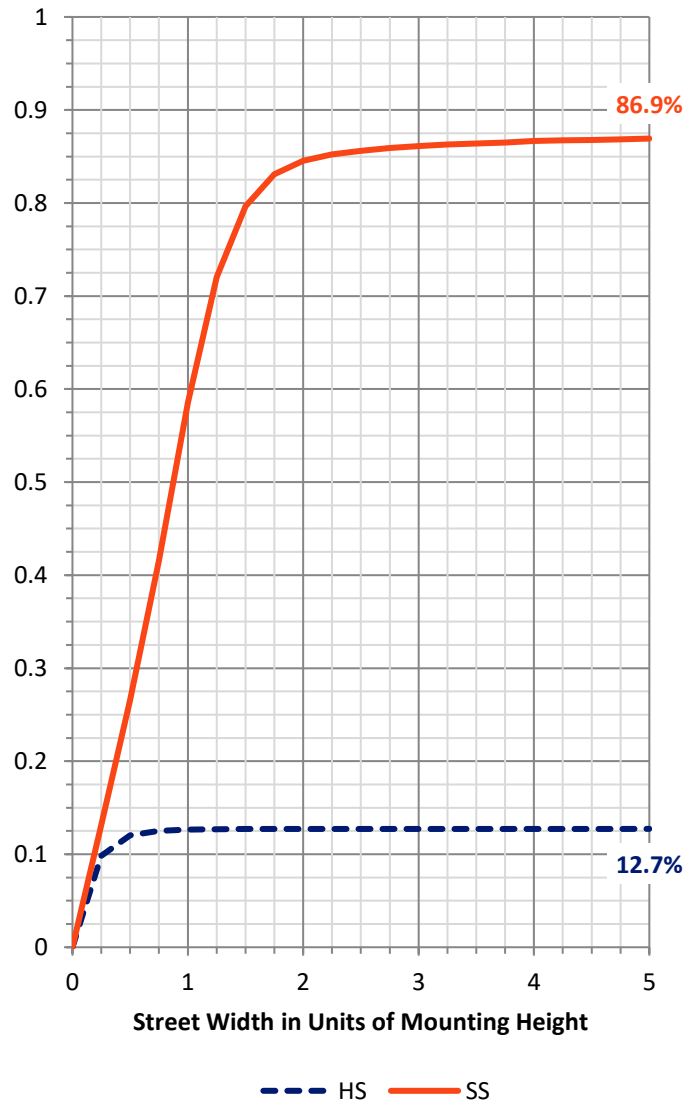
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2391.1	0.0	2391.1
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	16187.9	0.0	16187.9
	% Fixture	87.1	0.0	87.1
Total	Lumens	18579.0	0.0	18579.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.2	1.4
10°-20°	644.2	3.5
20°-30°	954.9	5.1
30°-40°	1773.0	9.5
40°-50°	3756.0	20.2
50°-60°	5193.6	28.0
60°-70°	4157.7	22.4
70°-80°	1727.4	9.3
80°-90°	110.9	0.6
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°	18579.0	100.0
0°-180°	18579.0	100.0

Coefficient of Utilization



REPORT NUMBER: P381386

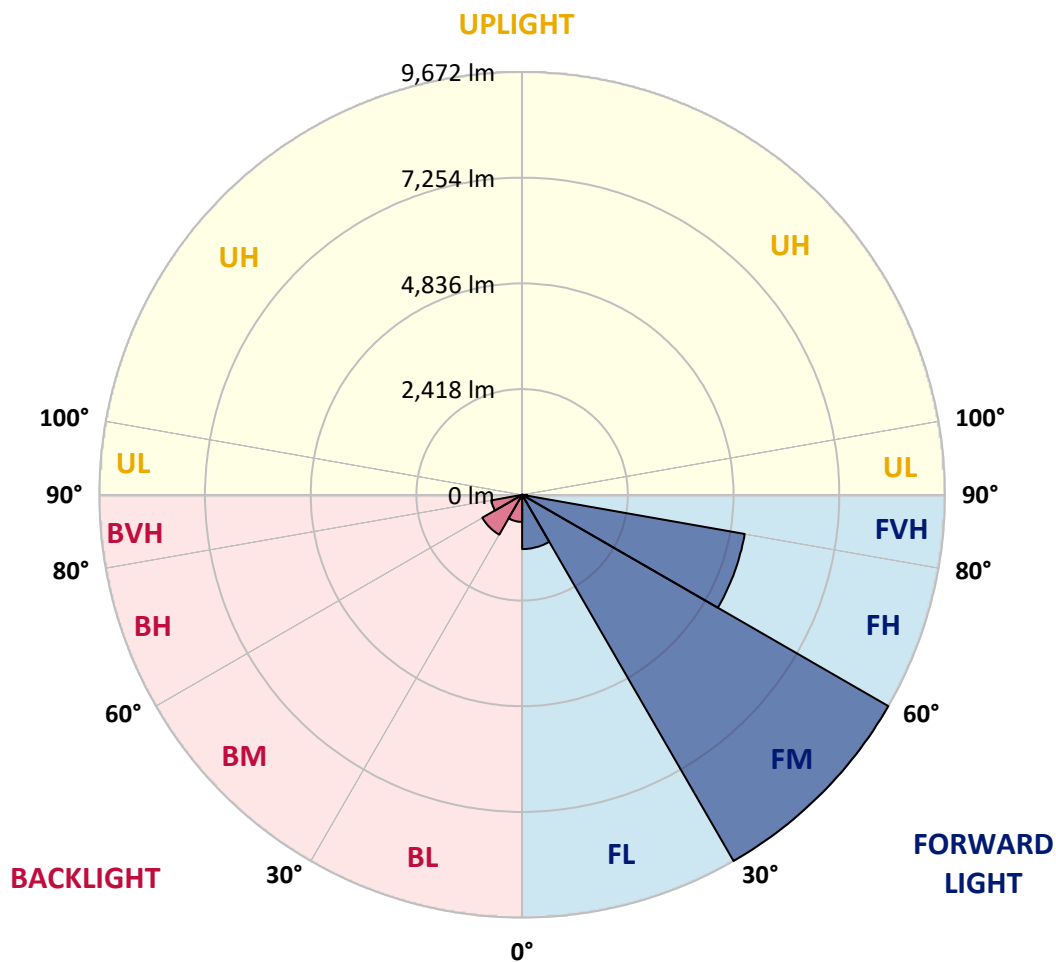
CATALOG NUMBER: PRV-XL-PA4A-8540-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1240.6	6.7			
FM	(30°-60°)	9672.3	52.1			
FH	(60°-80°)	5169.1	27.8			G3/7500
FVH	(80°-90°)	105.9	0.6			G2/225
BL	(0°-30°)	619.7	3.3	B2/1000		
BM	(30°-60°)	1050.4	5.7	B2/2500		
BH	(60°-80°)	716.0	3.9	B2/1000		G2/1000
BVH	(80°-90°)	5.1	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-G3

Type II Short



REPORT NUMBER: P381386

CATALOG NUMBER: PRV-XL-PA4A-8540-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2862.1	2862.1	2862.1	2862.1	2862.1	2862.1	2862.1	2862.1	2862.1	2862.1	2862.1
2.5°	2911.2	2904.2	2897.2	2893.7	2893.7	2890.1	2876.1	2872.6	2865.6	2858.6	2851.6
5°	2883.2	2872.6	2869.1	2872.6	2876.1	2883.2	2876.1	2876.1	2869.1	2862.1	2848.1
7.5°	2813.0	2806.0	2809.5	2820.1	2823.5	2848.1	2851.6	2862.1	2862.1	2855.1	2844.6
10°	2728.8	2725.3	2725.3	2742.8	2760.4	2795.5	2820.1	2848.1	2851.6	2851.6	2834.1
12.5°	2665.7	2662.2	2672.7	2693.8	2728.8	2774.4	2816.5	2858.6	2865.6	2869.1	2841.0
15°	2627.1	2627.1	2641.1	2683.3	2732.4	2795.5	2844.6	2900.7	2907.7	2904.2	2865.6
17.5°	2592.0	2595.6	2623.6	2693.8	2749.9	2834.1	2893.7	2956.8	2960.3	2956.8	2893.7
20°	2578.0	2585.0	2627.1	2718.3	2781.5	2876.1	2953.3	3016.4	3020.0	3005.9	2921.8
22.5°	2616.6	2620.1	2672.7	2770.9	2830.5	2935.8	3034.0	3093.6	3097.1	3076.1	2963.8
25°	2749.9	2749.9	2795.5	2879.6	2932.3	3037.5	3142.7	3212.9	3212.9	3188.3	3058.6
27.5°	3062.0	3034.0	3023.5	3048.0	3065.5	3177.8	3290.0	3377.7	3374.2	3339.1	3181.3
30°	3665.3	3595.1	3482.9	3356.6	3293.5	3370.7	3475.9	3588.2	3584.7	3528.5	3332.1
32.5°	4679.0	4577.3	4310.7	3977.5	3707.4	3619.7	3717.9	3840.7	3844.2	3777.6	3574.2
35°	6099.5	5938.2	5461.2	4998.2	4380.9	4047.6	4075.7	4209.0	4251.1	4216.0	3981.0
37.5°	7467.5	7320.1	6864.2	6222.3	5384.0	4703.6	4584.3	4700.0	4749.1	4749.1	4500.1
40°	8845.9	8674.0	8270.7	7625.2	6741.4	5727.7	5299.8	5394.5	5447.1	5457.7	5131.5
42.5°	9950.8	9838.5	9529.8	9028.3	8200.5	7523.5	6331.0	6278.4	6327.5	6288.9	5864.5
45°	10715.4	10627.7	10413.7	10224.3	9820.9	9480.7	7709.4	7355.2	7386.7	7253.5	6688.8
47.5°	10873.2	10775.0	10729.4	10992.5	11280.1	11364.2	9403.6	8635.4	8603.8	8309.2	7544.6
50°	10185.7	10196.2	10364.6	11115.2	12314.8	13072.4	11367.8	10080.5	9964.8	9308.9	8340.8
52.5°	8702.1	8870.5	9294.8	10511.9	12630.5	14314.0	13332.0	11613.3	11434.4	10280.5	8937.1
55°	6808.0	7025.5	7723.5	9123.0	11971.1	14868.2	14987.5	13205.7	12798.8	11010.0	9400.1
57.5°	5061.3	5127.9	5941.7	7218.4	10410.2	14324.6	15836.3	14433.3	13910.7	11592.2	9859.5
60°	3153.2	3195.3	4054.7	5496.3	7884.8	12314.8	15836.3	15278.6	14780.5	12114.9	10280.5
62.5°	1960.7	1974.7	2297.4	3767.0	5359.4	9133.5	15180.4	15934.5	15534.6	12490.2	10641.7
65°	1129.4	1143.4	1294.3	2129.1	3486.5	5468.2	13503.9	16127.5	15948.5	12788.3	10922.3
67.5°	824.3	831.3	890.9	1196.0	2279.9	2809.5	10143.7	15352.3	15576.8	12935.6	10915.3
70°	715.5	726.1	803.2	933.0	1645.0	1725.7	5163.0	13258.3	13886.1	12725.2	10589.1
72.5°	550.7	564.7	680.4	876.9	1206.6	1241.7	1869.5	9435.2	10385.6	11409.9	9694.7
75°	378.8	392.8	508.6	722.6	996.1	929.5	1027.7	4342.3	5478.7	7653.4	7379.8
77.5°	242.0	245.5	319.2	526.1	859.3	659.4	705.0	1417.0	1988.7	3461.9	3482.9
80°	161.4	164.8	196.5	340.2	589.3	610.3	435.0	655.9	719.0	1010.1	701.5
82.5°	98.2	98.2	133.3	214.0	357.8	505.1	284.1	343.7	368.3	389.3	182.4
85°	38.6	38.6	80.6	140.3	224.5	235.0	178.9	199.9	210.5	228.0	84.2
87.5°	10.5	10.5	45.6	77.2	98.2	108.8	108.8	98.2	105.2	129.7	42.1
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: P381386

CATALOG NUMBER: PRV-XL-PA4A-8540-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2862.1	2862.1	2862.1	2862.1	2862.1	2862.1	2862.1	2862.1	2862.1	2862.1	2862.1
2.5°	2848.1	2837.6	2823.5	2809.5	2795.5	2785.0	2774.4	2774.4	2767.4	2756.9	2749.9
5°	2841.0	2823.5	2791.9	2767.4	2728.8	2700.8	2679.7	2662.2	2651.6	2627.1	2623.6
7.5°	2830.5	2809.5	2763.9	2714.8	2651.6	2602.5	2553.4	2518.4	2483.3	2455.3	2448.2
10°	2813.0	2788.4	2721.8	2651.6	2563.9	2472.8	2357.1	2223.7	2100.9	2030.9	2009.8
12.5°	2813.0	2781.5	2693.8	2599.0	2472.8	2248.3	1953.7	1659.0	1431.1	1329.3	1301.3
15°	2830.5	2788.4	2672.7	2542.9	2307.9	1852.0	1374.9	985.6	736.6	659.4	641.9
17.5°	2848.1	2788.4	2641.1	2465.7	2006.3	1343.4	782.1	519.1	438.4	420.9	420.9
20°	2855.1	2781.5	2599.0	2322.0	1603.0	834.8	466.5	389.3	357.8	347.3	347.3
22.5°	2883.2	2785.0	2567.5	2115.0	1164.5	491.0	368.3	326.2	294.6	284.1	284.1
25°	2953.3	2827.0	2574.5	1852.0	747.1	371.8	312.2	270.1	238.5	224.5	224.5
27.5°	3065.5	2921.8	2613.1	1546.8	470.0	319.2	263.1	217.4	192.9	178.9	178.9
30°	3191.8	3026.9	2630.6	1196.0	350.8	270.1	214.0	171.9	154.3	143.8	140.3
32.5°	3412.8	3209.4	2616.6	820.7	287.6	228.0	171.9	136.8	122.8	119.3	119.3
35°	3767.0	3528.5	2588.5	515.6	238.5	182.4	136.8	112.2	101.7	98.2	94.7
37.5°	4247.5	3995.0	2504.3	340.2	196.5	143.8	112.2	94.7	84.2	80.6	80.6
40°	4833.3	4528.2	2343.0	259.6	168.3	115.7	94.7	80.6	73.7	70.2	70.2
42.5°	5503.2	5120.9	2086.9	224.5	140.3	98.2	80.6	66.6	63.1	59.7	59.7
45°	6236.3	5741.7	1732.7	199.9	119.3	80.6	66.6	59.7	52.6	52.6	49.1
47.5°	7015.0	6366.1	1332.8	175.4	101.7	70.2	59.7	49.1	45.6	42.1	42.1
50°	7765.6	6923.8	936.5	150.8	84.2	59.7	49.1	42.1	38.6	35.1	35.1
52.5°	8295.2	7260.5	662.9	129.7	70.2	52.6	38.6	31.6	28.0	28.0	28.0
55°	8719.6	7470.9	463.0	108.8	59.7	45.6	31.6	24.6	24.6	21.1	21.1
57.5°	9119.4	7607.7	340.2	91.2	49.1	35.1	24.6	17.5	17.5	14.0	14.0
60°	9533.3	7681.4	259.6	73.7	42.1	28.0	17.5	14.0	10.5	10.5	10.5
62.5°	9950.8	7727.0	199.9	59.7	35.1	21.1	14.0	10.5	7.0	3.5	3.5
65°	10315.6	7741.1	154.3	45.6	28.0	14.0	10.5	3.5	0.0	0.0	0.0
67.5°	10424.2	7579.7	119.3	35.1	21.1	10.5	7.0	0.0	0.0	0.0	0.0
70°	10129.6	7151.8	91.2	28.0	17.5	7.0	3.5	0.0	0.0	0.0	0.0
72.5°	8989.7	5997.8	70.2	17.5	14.0	7.0	3.5	0.0	0.0	0.0	0.0
75°	6432.7	3198.8	49.1	14.0	10.5	3.5	0.0	0.0	0.0	0.0	0.0
77.5°	2960.3	1238.2	35.1	10.5	7.0	3.5	0.0	0.0	0.0	0.0	0.0
80°	578.7	308.7	14.0	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	133.3	52.6	7.0	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	45.6	17.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.5	7.0	3.5	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)