

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: P381001

Luminaire Tested: **PRV-XL-PA3B-8540-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA3B-8540-U-T4W
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 85 CRI, 4000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23616.1 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 234
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

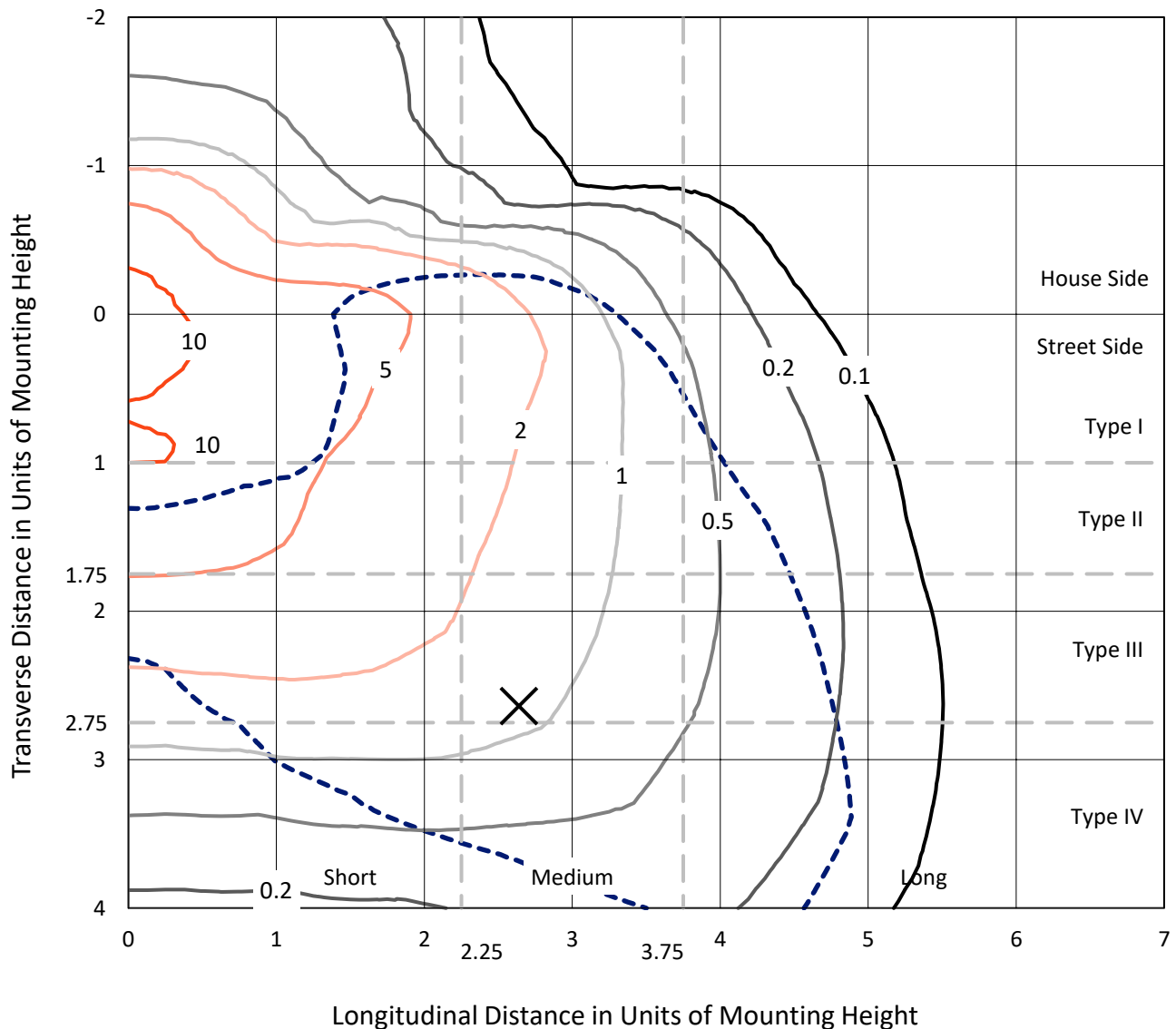


REPORT NUMBER: P381001

CATALOG NUMBER: PRV-XL-PA3B-8540-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

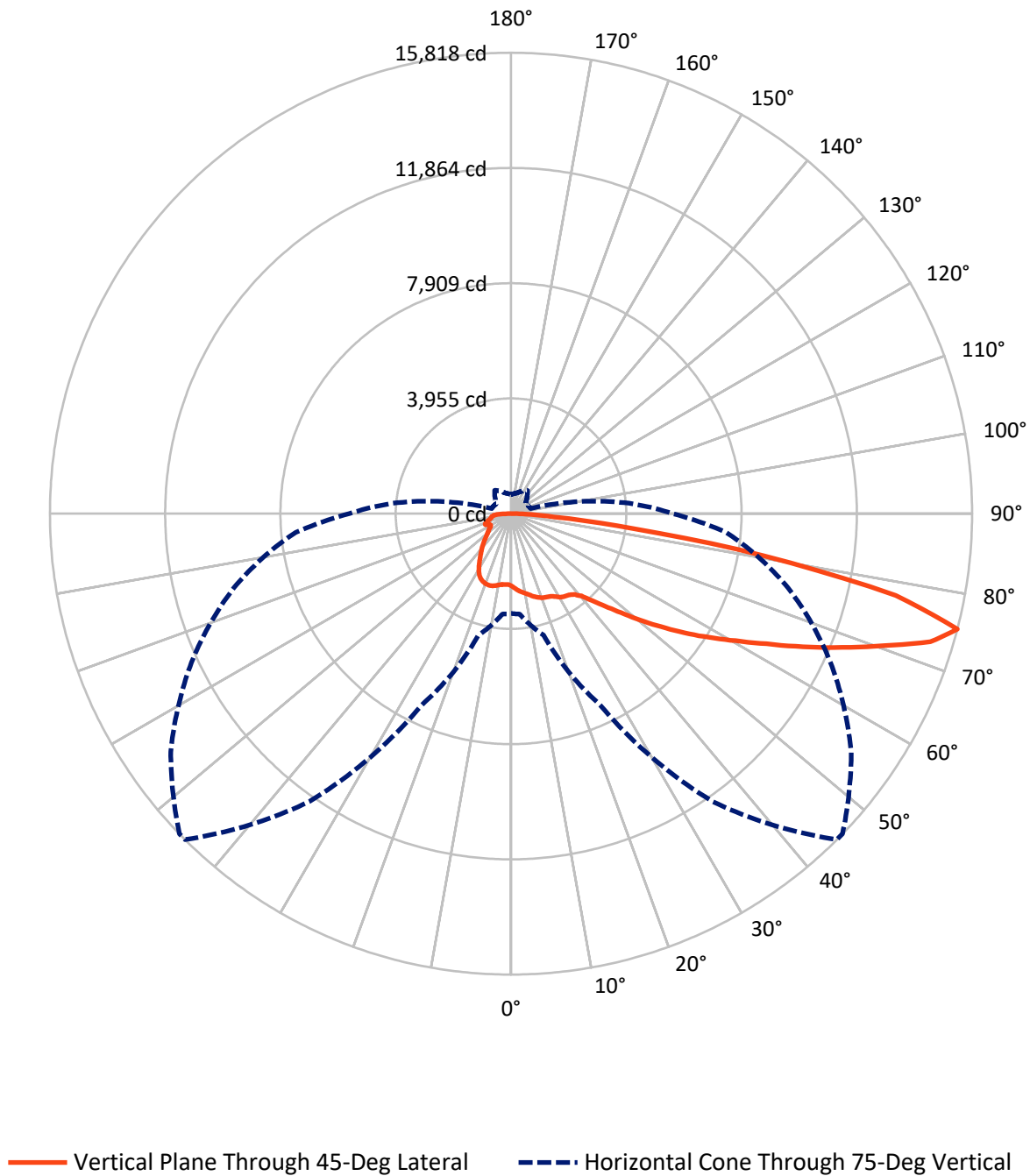


Based on 15 foot mounting height. Maximum calculated value = 13 fc
Type IV - Medium - N/A

REPORT NUMBER: P381001

CATALOG NUMBER: PRV-XL-PA3B-8540-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P381001

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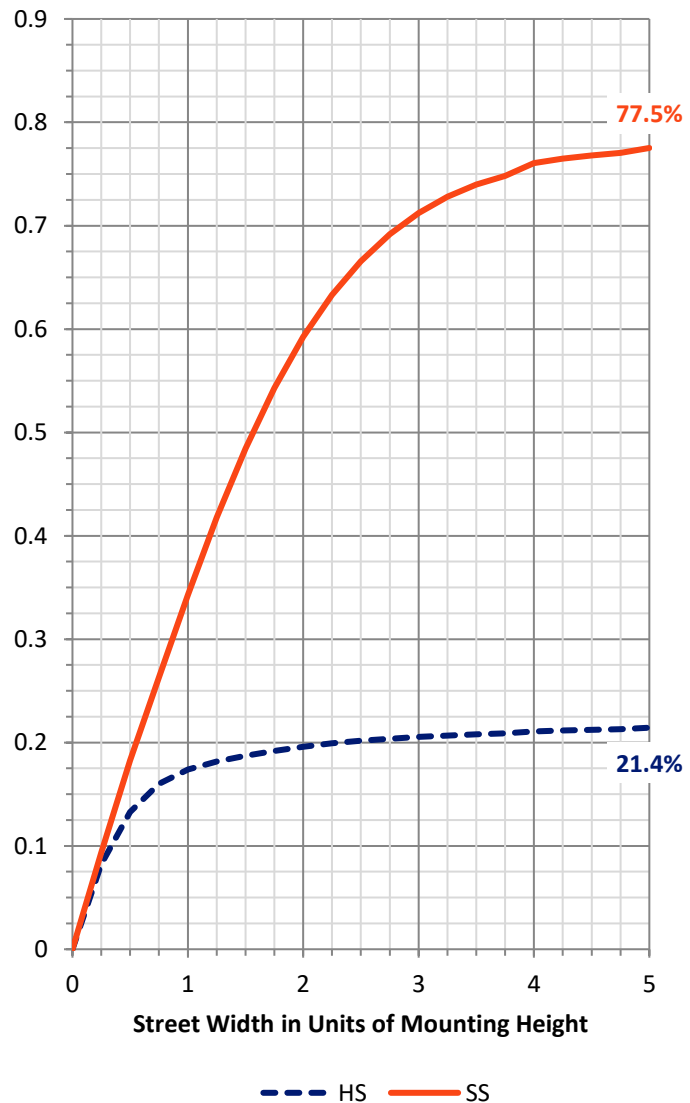
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5219.0	0.0	5219.0
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	18397.0	0.0	18397.0
	% Fixture	77.9	0.0	77.9
Total	Lumens	23616.1	0.0	23616.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.4	1.0
10°-20°	780.6	3.3
20°-30°	1330.8	5.6
30°-40°	1864.6	7.9
40°-50°	2739.4	11.6
50°-60°	4359.7	18.5
60°-70°	6201.7	26.3
70°-80°	5192.7	22.0
80°-90°	901.2	3.8
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°	23616.1	100.0
0°-180°	23616.1	100.0

Coefficient of Utilization



REPORT NUMBER: P381001

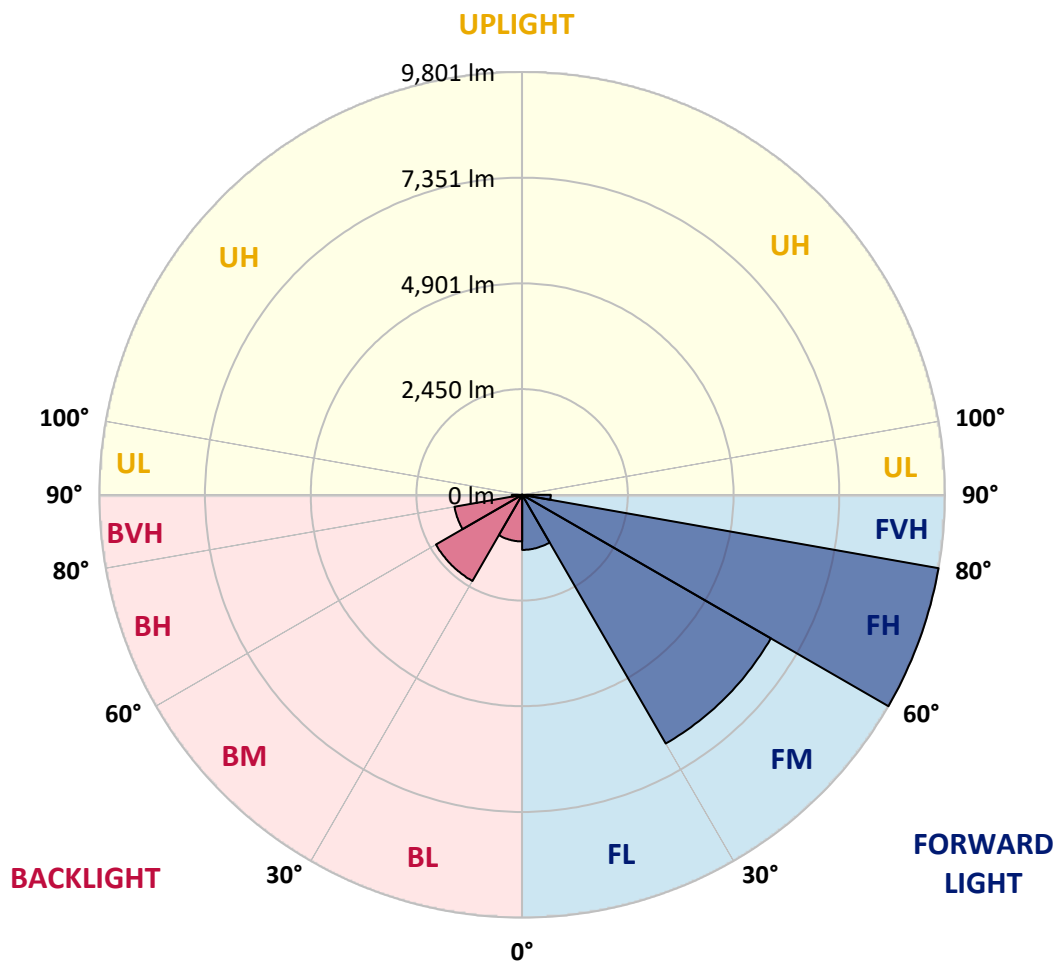
CATALOG NUMBER: PRV-XL-PA3B-8540-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1276.6	5.4			
FM	(30°-60°)	6656.7	28.2			
FH	(60°-80°)	9801.3	41.5			G4/12000
FVH	(80°-90°)	662.5	2.8			G4/750
BL	(0°-30°)	1080.1	4.6	B3/2500		
BM	(30°-60°)	2307.1	9.8	B2/2500		
BH	(60°-80°)	1593.2	6.7	B3/2500		G3/2500
BVH	(80°-90°)	238.7	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



REPORT NUMBER: P381001

CATALOG NUMBER: PRV-XL-PA3B-8540-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2480.2	2480.2	2480.2	2480.2	2480.2	2480.2	2480.2	2480.2	2480.2	2480.2	2480.2
2.5°	2622.2	2609.6	2603.2	2603.2	2578.0	2562.2	2559.1	2537.0	2518.0	2499.1	2483.4
5°	2773.7	2764.2	2745.3	2729.5	2694.8	2650.6	2644.3	2597.0	2549.6	2505.4	2467.5
7.5°	2912.5	2893.6	2871.5	2839.9	2783.1	2723.2	2713.7	2647.5	2581.2	2514.9	2464.4
10°	3029.3	3010.3	2978.8	2934.6	2862.0	2789.4	2780.0	2710.6	2641.1	2562.2	2489.7
12.5°	3139.7	3123.9	3076.6	3016.7	2931.5	2865.2	2855.7	2795.8	2723.2	2634.8	2540.1
15°	3234.3	3218.6	3168.1	3098.6	3000.8	2950.3	2937.7	2881.0	2808.4	2713.7	2615.9
17.5°	3281.7	3281.7	3228.1	3152.4	3060.8	3022.9	3013.5	2944.1	2877.8	2786.3	2688.4
20°	3297.4	3303.8	3265.9	3174.4	3095.5	3079.8	3070.3	3013.5	2937.7	2849.4	2757.9
22.5°	3306.9	3319.5	3288.0	3183.9	3117.6	3108.1	3101.9	3064.0	3004.0	2918.8	2827.3
25°	3338.5	3338.5	3316.4	3199.7	3146.0	3142.9	3142.9	3120.8	3079.8	3007.2	2915.7
27.5°	3385.8	3382.6	3354.3	3234.3	3209.1	3218.6	3215.5	3212.3	3183.9	3111.3	3013.5
30°	3464.7	3464.7	3433.1	3303.8	3288.0	3329.0	3332.2	3338.5	3294.3	3180.7	3101.9
32.5°	3584.7	3572.0	3540.4	3373.2	3348.0	3385.8	3392.1	3389.0	3351.1	3243.8	3206.0
35°	3953.8	3925.4	3811.8	3527.8	3401.6	3423.7	3426.9	3442.6	3449.0	3363.8	3344.8
37.5°	4600.7	4562.9	4389.3	3893.9	3572.0	3518.3	3515.2	3556.2	3590.9	3515.2	3515.2
40°	5304.4	5272.8	5171.8	4525.0	3887.5	3710.9	3698.2	3736.1	3780.2	3726.6	3742.4
42.5°	5910.2	5935.5	5944.9	5193.9	4360.8	4070.6	4035.8	3982.2	4051.6	4004.3	4067.4
45°	6364.6	6352.0	6525.5	5878.7	4973.0	4521.8	4474.5	4329.3	4417.7	4414.5	4553.4
47.5°	6847.4	6825.3	6897.8	6522.4	5670.4	5074.0	5001.4	4786.9	4919.4	5010.9	5241.2
50°	7304.9	7311.3	7336.5	7030.4	6427.7	5746.1	5654.6	5367.5	5556.8	5749.3	6074.3
52.5°	7901.3	7857.2	7825.6	7623.6	7276.5	6446.7	6386.7	6058.5	6323.6	6550.7	6983.0
55°	8421.9	8393.5	8374.7	8365.2	7986.5	7219.7	7156.6	6815.9	7197.6	7358.6	7996.0
57.5°	8977.3	8961.5	9062.5	9223.4	9072.0	8005.5	7939.2	7611.0	8037.0	8150.6	9094.1
60°	9384.4	9393.9	9671.5	10081.8	9977.6	8857.5	8778.5	8488.2	8854.2	8955.2	10192.2
62.5°	9387.5	9482.2	10125.9	10861.1	10981.0	9838.8	9747.3	9431.7	9693.6	9693.6	11176.7
65°	8491.4	8598.7	10043.9	11053.6	11997.1	11006.3	10917.9	10422.5	10520.4	10387.8	12101.3
67.5°	7598.4	7724.6	9084.6	11069.4	12710.3	12255.8	12151.8	11413.3	11246.2	10911.7	12748.1
70°	7005.2	7093.5	8229.5	10864.3	13139.4	13562.3	13483.3	12353.7	11817.3	11350.2	12612.4
72.5°	5897.6	5866.0	6951.5	9889.3	13379.2	15045.3	14979.0	13376.1	12312.7	11142.0	10757.0
75°	3423.7	3461.6	4313.5	7244.9	12060.2	15818.4	15812.1	14250.1	12094.9	9841.9	7412.2
77.5°	987.7	1016.1	1416.8	3183.9	7626.8	13492.8	13925.1	13032.1	10223.7	7014.6	3843.4
80°	432.3	454.4	615.3	1060.3	3284.8	8813.2	9191.9	8813.2	6165.8	3218.6	1508.3
82.5°	255.6	271.4	400.7	656.3	1574.6	4193.6	4704.8	4108.4	2660.1	1366.3	624.8
85°	145.2	151.4	230.4	416.6	990.8	1467.3	1647.2	1543.1	1296.9	776.3	328.2
87.5°	66.2	69.5	113.6	195.7	555.4	495.4	514.4	681.6	751.0	473.3	164.1
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: P381001

CATALOG NUMBER: PRV-XL-PA3B-8540-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2480.2	2480.2	2480.2	2480.2	2480.2	2480.2	2480.2	2480.2	2480.2	2480.2	2480.2
2.5°	2477.0	2467.5	2448.7	2442.3	2432.9	2436.0	2439.2	2439.2	2442.3	2432.9	2432.9
5°	2451.8	2436.0	2417.1	2417.1	2417.1	2442.3	2464.4	2477.0	2483.4	2483.4	2477.0
7.5°	2442.3	2423.4	2401.3	2407.6	2413.9	2445.5	2486.5	2527.5	2540.1	2540.1	2533.9
10°	2461.3	2442.3	2426.6	2436.0	2451.8	2477.0	2508.6	2546.5	2578.0	2581.2	2578.0
12.5°	2505.4	2483.4	2467.5	2486.5	2505.4	2521.3	2537.0	2552.8	2593.8	2600.1	2600.1
15°	2578.0	2555.9	2537.0	2552.8	2559.1	2559.1	2559.1	2559.1	2600.1	2606.5	2606.5
17.5°	2650.6	2631.7	2612.7	2615.9	2597.0	2571.7	2562.2	2559.1	2581.2	2600.1	2603.2
20°	2720.0	2704.2	2685.3	2653.7	2606.5	2559.1	2543.3	2543.3	2555.9	2584.4	2584.4
22.5°	2795.8	2776.8	2745.3	2672.7	2593.8	2527.5	2511.8	2521.3	2537.0	2574.9	2571.7
25°	2881.0	2855.7	2802.0	2666.3	2552.8	2473.9	2477.0	2505.4	2533.9	2574.9	2574.9
27.5°	2975.6	2940.9	2833.6	2615.9	2461.3	2385.6	2413.9	2480.2	2521.3	2565.4	2571.7
30°	3079.8	3048.2	2858.9	2527.5	2313.0	2243.5	2313.0	2420.3	2483.4	2524.4	2533.9
32.5°	3206.0	3180.7	2881.0	2413.9	2120.4	2060.5	2161.5	2294.0	2395.0	2442.3	2451.8
35°	3363.8	3338.5	2909.3	2284.6	1940.6	1877.5	1969.0	2104.7	2237.3	2297.2	2316.1
37.5°	3568.8	3530.9	2934.6	2145.7	1789.2	1716.6	1760.7	1883.8	2003.7	2085.8	2107.8
40°	3830.7	3770.8	2956.7	1988.0	1656.6	1574.6	1590.4	1650.3	1719.7	1792.3	1820.7
42.5°	4199.9	4080.1	2959.8	1820.7	1521.0	1445.2	1438.9	1457.9	1457.9	1457.9	1467.3
45°	4714.3	4487.1	2966.2	1662.9	1382.1	1303.2	1284.3	1277.9	1230.6	1139.1	1132.8
47.5°	5364.3	5020.4	2994.6	1530.4	1237.0	1167.5	1142.3	1117.0	1028.7	934.0	915.1
50°	6197.4	5638.9	3051.4	1404.2	1113.9	1066.5	1035.0	975.1	877.2	804.6	785.7
52.5°	7156.6	6374.1	3105.0	1271.7	1022.4	990.8	953.0	880.4	776.3	732.1	725.8
55°	8257.9	7194.5	3212.3	1154.9	943.5	921.4	886.7	817.3	738.4	706.8	703.7
57.5°	9384.4	8112.7	3363.8	1050.8	867.7	855.1	855.1	795.2	744.7	732.1	732.1
60°	10469.9	8901.6	3247.0	953.0	798.3	804.6	864.6	848.9	811.0	826.8	836.2
62.5°	11312.4	9365.5	2634.8	874.1	747.8	804.6	959.3	959.3	915.1	908.7	908.7
65°	11672.1	9359.1	1852.3	814.1	728.9	883.5	1069.7	1019.2	902.5	858.3	848.9
67.5°	11580.6	8948.9	1277.9	773.1	722.6	965.6	1120.2	978.2	845.6	807.8	779.4
70°	10776.0	8081.2	984.5	735.2	713.2	930.8	1104.4	930.8	801.5	766.8	741.5
72.5°	8693.3	6481.4	817.3	697.3	675.3	861.5	1050.8	886.7	766.8	728.9	703.7
75°	5544.2	4076.8	691.1	646.8	602.7	773.1	978.2	842.5	728.9	678.4	659.5
77.5°	2666.3	1757.6	602.7	586.9	542.8	716.3	905.6	785.7	678.4	637.4	624.8
80°	1079.2	804.6	523.8	527.0	498.5	681.6	855.1	732.1	628.0	583.7	561.6
82.5°	561.6	467.0	441.8	454.4	454.4	650.0	817.3	687.9	583.7	564.9	492.3
85°	302.9	290.3	340.8	366.1	394.4	586.9	760.4	640.6	533.3	457.5	441.8
87.5°	148.3	189.3	192.5	220.9	274.5	470.2	640.6	536.4	444.9	369.2	362.8
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)