

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: P381322

Luminaire Tested: **PRV-XL-PA4A-8540-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
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-T4W-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 85 CRI, 4000K, 785mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19010.5 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G4

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

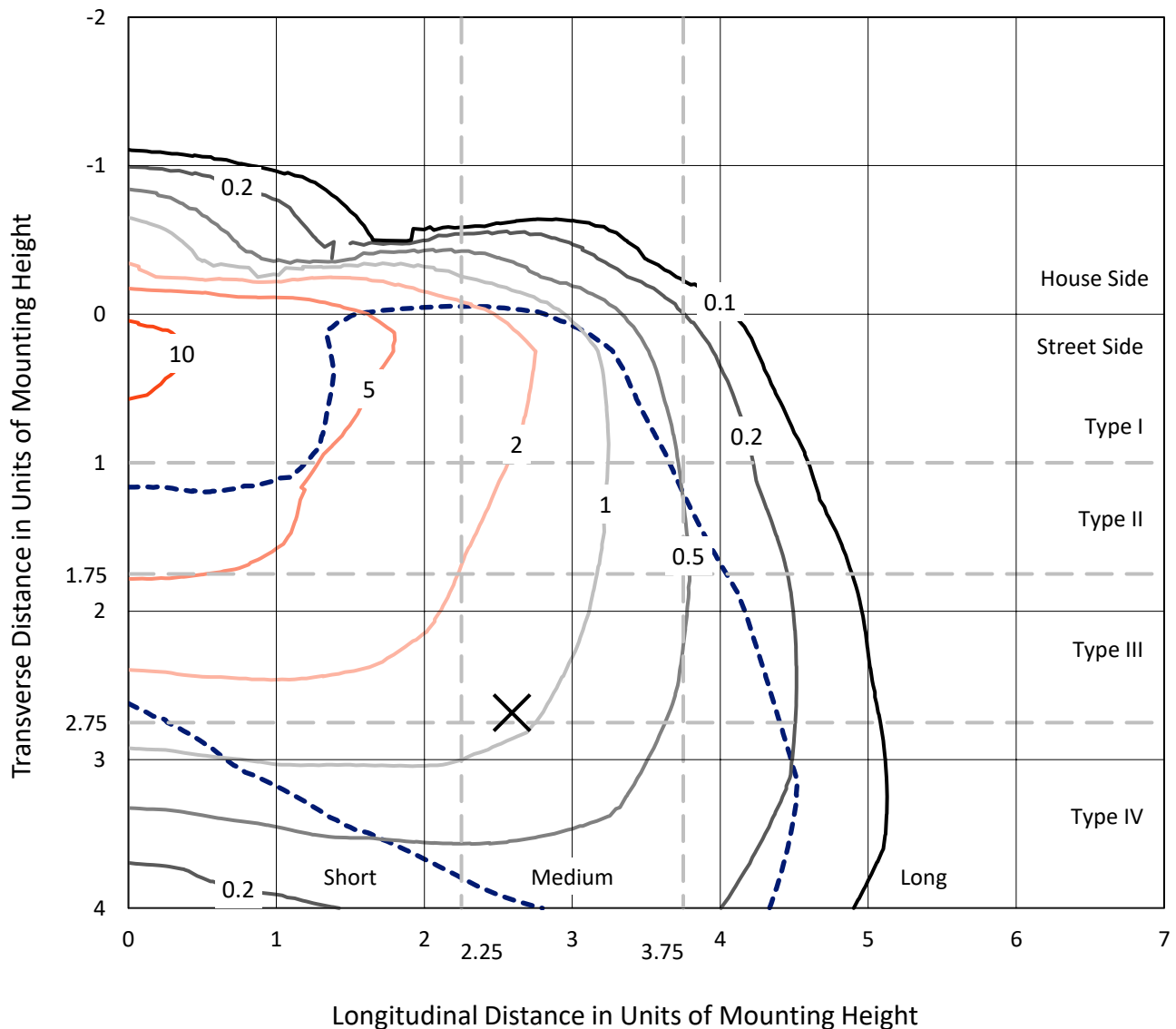


REPORT NUMBER: P381322

CATALOG NUMBER: PRV-XL-PA4A-8540-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

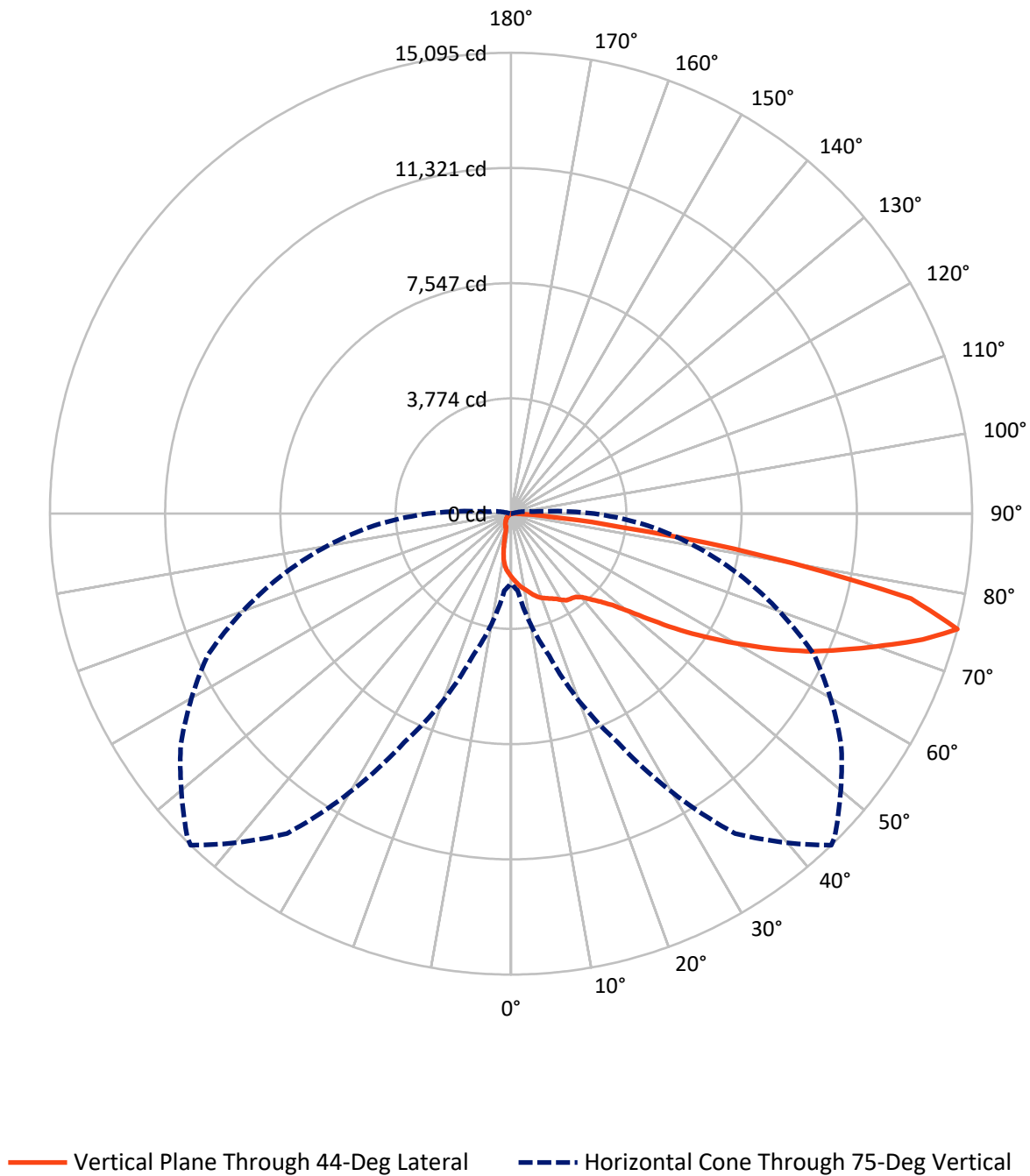


Based on 15 foot mounting height. Maximum calculated value = 12.5 fc
 Type IV - Medium - N/A

REPORT NUMBER: P381322

CATALOG NUMBER: PRV-XL-PA4A-8540-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P381322

CATALOG NUMBER: PRV-XL-PA4A-8540-U-T4W-HSS

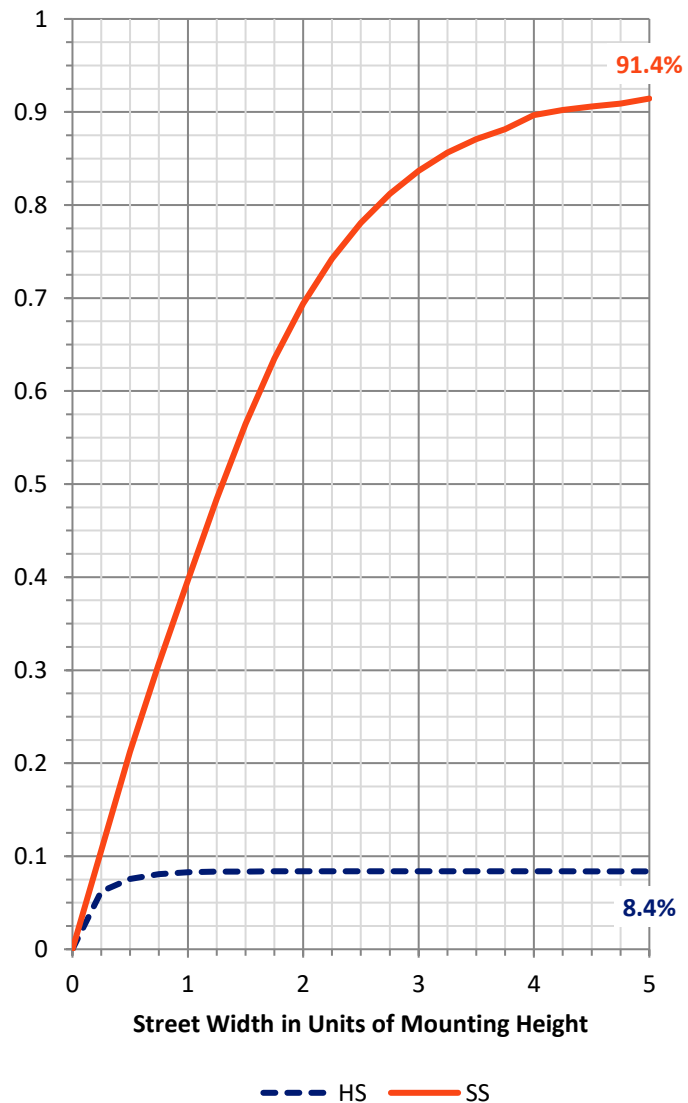
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1603.2	0.0	1603.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	17407.3	0.0	17407.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	19010.5	0.0	19010.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.1	1.0
10°-20°	546.8	2.9
20°-30°	902.4	4.7
30°-40°	1309.7	6.9
40°-50°	2129.1	11.2
50°-60°	3753.3	19.7
60°-70°	5394.2	28.4
70°-80°	4319.6	22.7
80°-90°	460.2	2.4
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°	19010.5	100.0
0°-180°	19010.5	100.0

Coefficient of Utilization



REPORT NUMBER: P381322

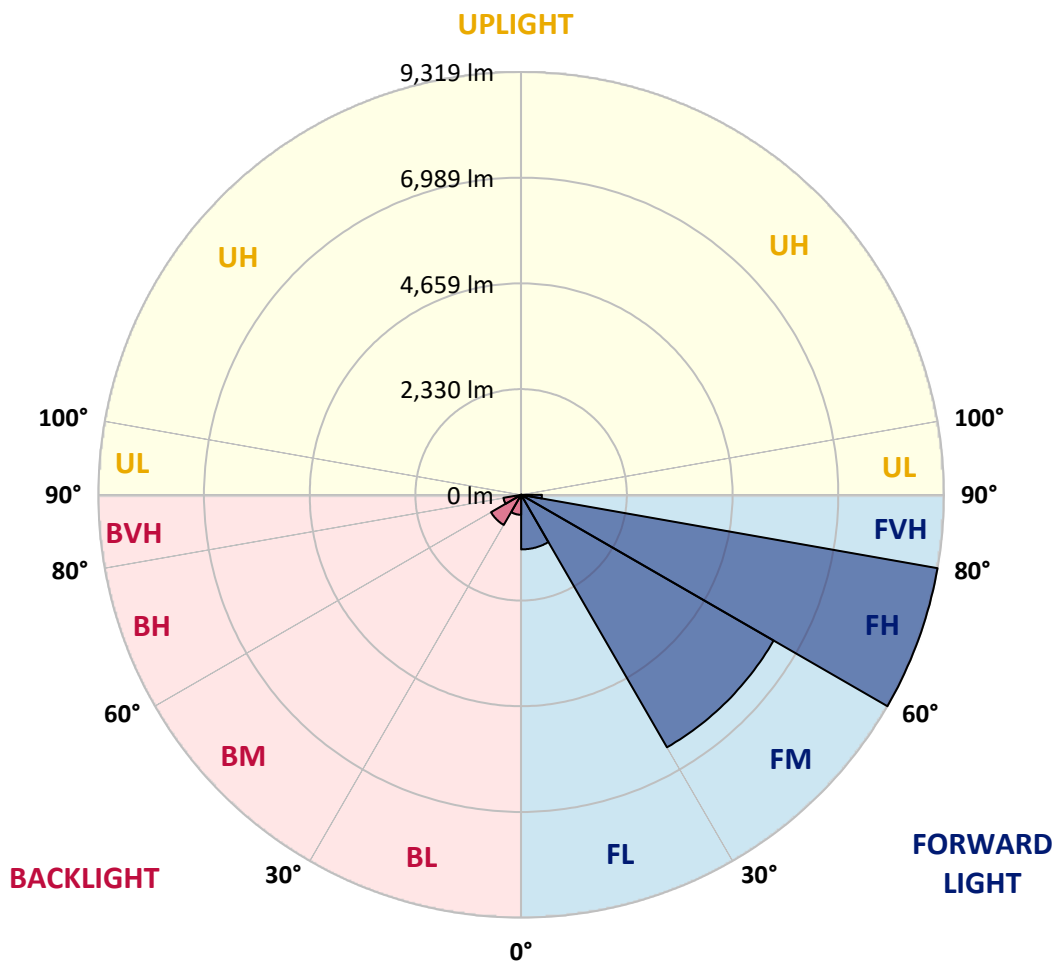
CATALOG NUMBER: PRV-XL-PA4A-8540-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1203.9	6.3			
FM	(30°-60°)	6425.7	33.8			
FH	(60°-80°)	9318.6	49.0			G4/12000
FVH	(80°-90°)	459.1	2.4			G3/500
BL	(0°-30°)	440.5	2.3	B1/500		
BM	(30°-60°)	766.4	4.0	B1/1000		
BH	(60°-80°)	395.2	2.1	B1/500		G1/500
BVH	(80°-90°)	1.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Medium



REPORT NUMBER: P381322

CATALOG NUMBER: PRV-XL-PA4A-8540-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2
2.5°	2255.1	2251.6	2241.1	2223.6	2206.0	2188.5	2185.0	2156.9	2125.3	2100.8	2079.7
5°	2455.0	2451.5	2434.0	2395.4	2356.8	2311.2	2307.7	2241.1	2181.4	2114.8	2058.7
7.5°	2661.9	2654.9	2623.4	2563.7	2497.1	2426.9	2419.9	2321.8	2234.1	2146.4	2065.7
10°	2823.3	2816.2	2770.6	2700.5	2609.3	2521.7	2511.1	2409.4	2321.8	2209.5	2100.8
12.5°	2981.0	2967.0	2907.4	2830.2	2718.0	2633.9	2623.4	2518.1	2412.9	2297.2	2163.9
15°	3128.4	3110.9	3054.7	2956.5	2837.3	2756.6	2749.6	2637.4	2528.6	2395.4	2248.1
17.5°	3230.1	3223.1	3156.4	3047.7	2931.9	2865.3	2858.3	2742.6	2633.9	2493.5	2335.8
20°	3282.7	3282.7	3219.5	3100.3	2995.1	2949.5	2939.0	2830.2	2725.1	2591.8	2426.9
22.5°	3293.2	3303.7	3254.6	3124.9	3047.7	3009.1	3002.1	2907.4	2805.7	2682.9	2528.6
25°	3314.3	3314.3	3289.7	3149.4	3093.3	3082.7	3079.3	2995.1	2903.9	2781.1	2630.3
27.5°	3338.8	3338.8	3321.3	3184.5	3163.5	3160.0	3156.4	3117.8	3044.2	2900.4	2749.6
30°	3401.9	3405.4	3391.4	3254.6	3240.6	3279.2	3286.2	3265.2	3174.0	2995.1	2872.4
32.5°	3559.8	3528.2	3489.6	3303.7	3328.3	3377.4	3380.9	3338.8	3240.6	3096.8	3019.6
35°	3956.0	3770.1	3594.8	3345.8	3356.3	3405.4	3412.5	3408.9	3349.4	3226.6	3188.0
37.5°	4324.3	4061.3	3812.3	3444.0	3408.9	3461.6	3475.6	3535.2	3489.6	3405.4	3416.0
40°	4538.3	4436.6	4261.2	3714.1	3514.2	3594.8	3608.8	3700.1	3682.5	3647.4	3714.1
42.5°	5197.6	5204.6	5015.2	4117.4	3707.0	3836.9	3854.3	3928.0	3952.6	3970.1	4131.4
45°	5962.2	5986.7	5941.1	4843.4	4071.8	4113.9	4138.5	4236.7	4327.8	4440.1	4734.6
47.5°	6881.0	6859.9	6691.6	5730.7	4706.6	4471.6	4489.2	4678.5	4836.4	5081.8	5502.7
50°	7694.7	7747.3	7428.2	6558.3	5600.9	5036.3	5018.7	5204.6	5488.7	5832.4	6362.0
52.5°	8515.4	8438.2	8006.8	7379.1	6660.0	5804.3	5751.7	5853.4	6253.3	6660.0	7203.7
55°	8732.8	8739.8	8592.5	8276.9	7543.9	6737.2	6649.5	6642.5	7140.6	7417.6	8087.5
57.5°	9160.6	9178.2	9213.2	9276.4	8929.2	7670.1	7579.0	7480.7	7964.8	8126.1	8974.8
60°	9595.6	9616.6	9830.6	10170.7	9939.2	8676.7	8578.5	8347.0	8617.1	8834.5	9907.7
62.5°	9539.4	9686.7	10307.5	10984.4	10956.4	9781.4	9658.7	9101.0	9272.9	9462.2	10763.4
65°	8613.5	8771.4	10167.3	11208.8	11976.9	10872.2	10672.2	9879.7	9890.2	10118.1	11587.6
67.5°	7785.8	7957.7	9290.5	11114.1	12650.3	11850.6	11643.8	10661.7	10496.9	10875.6	12029.5
70°	7308.9	7480.7	8592.5	10819.6	12839.6	12934.4	12755.5	11556.1	11219.4	11566.6	11535.0
72.5°	5720.1	5990.2	7701.7	10258.4	13043.1	14095.3	13954.9	12688.8	11833.1	10844.1	8781.9
75°	2279.6	2528.6	4808.3	8255.8	12787.0	15094.8	14986.1	13197.4	10952.8	7743.8	4496.1
77.5°	687.4	736.5	1336.2	4082.3	9374.6	13383.3	13348.2	11096.6	7750.8	3594.8	1227.5
80°	227.9	252.5	410.4	1125.8	4278.7	8361.0	8518.9	7070.4	3521.2	824.2	249.0
82.5°	94.7	105.2	206.9	452.4	1515.1	3601.8	3549.3	3166.9	1227.5	512.1	91.2
85°	24.6	31.6	94.7	259.6	554.1	1241.5	1304.6	1062.7	694.4	424.4	28.0
87.5°	0.0	0.0	45.6	105.2	249.0	375.3	392.8	322.7	392.8	319.2	14.0
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: P381322

CATALOG NUMBER: PRV-XL-PA4A-8540-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2
2.5°	2062.2	2044.6	2013.1	1992.0	1964.0	1957.0	1942.9	1925.4	1922.0	1904.4	1907.9
5°	2027.1	1999.1	1942.9	1904.4	1858.8	1844.7	1820.2	1802.7	1788.6	1764.1	1767.6
7.5°	2020.1	1978.0	1900.9	1827.2	1753.6	1701.0	1627.3	1567.7	1518.6	1466.0	1476.5
10°	2044.6	1992.0	1883.3	1781.6	1648.4	1480.0	1287.1	1160.9	1097.8	1034.6	1041.6
12.5°	2093.7	2030.6	1890.3	1736.1	1466.0	1178.4	911.9	740.0	694.4	666.3	669.9
15°	2167.4	2090.3	1911.4	1648.4	1220.5	852.2	606.7	533.1	550.6	561.2	561.2
17.5°	2244.5	2156.9	1928.9	1490.5	943.4	596.2	494.5	487.5	512.1	536.6	536.6
20°	2339.3	2227.0	1932.4	1290.6	680.3	484.0	466.4	466.4	484.0	512.1	512.1
22.5°	2430.4	2304.2	1900.9	1062.7	519.1	448.9	448.9	448.9	459.5	487.5	491.0
25°	2539.2	2398.9	1834.3	820.7	445.4	427.9	427.9	431.4	438.4	462.9	466.4
27.5°	2654.9	2497.1	1722.0	599.7	406.8	403.3	406.8	410.4	413.8	438.4	445.4
30°	2788.2	2605.8	1578.2	448.9	371.8	371.8	382.3	389.3	389.3	410.4	417.3
32.5°	2942.5	2749.6	1406.3	371.8	336.7	333.2	350.7	361.2	361.2	378.7	385.8
35°	3135.4	2896.9	1199.5	329.6	308.7	301.6	308.7	326.2	333.2	347.2	350.7
37.5°	3391.4	3072.3	978.5	305.1	287.6	273.6	273.6	277.0	291.1	305.1	308.7
40°	3717.6	3265.2	761.1	287.6	266.5	252.5	242.0	238.5	235.0	245.5	252.5
42.5°	4127.9	3482.6	568.1	270.1	249.0	227.9	213.9	199.9	182.4	178.8	182.4
45°	4654.0	3749.2	420.9	256.0	238.5	206.9	182.4	157.9	126.2	115.7	119.3
47.5°	5274.8	4026.2	329.6	242.0	231.5	182.4	150.8	108.8	77.1	70.2	73.7
50°	5934.1	4292.7	280.5	224.5	217.4	157.9	108.8	66.6	45.6	45.6	49.1
52.5°	6495.2	4443.5	256.0	210.4	196.4	129.7	70.2	38.6	28.0	28.0	31.6
55°	7038.9	4524.3	238.5	196.4	168.3	91.2	38.6	24.6	17.5	17.5	17.5
57.5°	7600.0	4559.3	217.4	178.8	133.3	56.1	21.1	14.0	10.5	10.5	10.5
60°	8098.0	4492.6	185.9	147.3	87.7	28.0	10.5	10.5	7.0	3.5	3.5
62.5°	8515.4	4366.4	129.7	105.2	52.6	14.0	7.0	3.5	0.0	0.0	0.0
65°	8771.4	4163.0	84.2	70.2	31.6	10.5	3.5	0.0	0.0	0.0	0.0
67.5°	8697.7	3780.7	52.6	45.6	14.0	7.0	3.5	0.0	0.0	0.0	0.0
70°	7849.0	3100.3	38.6	28.0	10.5	3.5	0.0	0.0	0.0	0.0	0.0
72.5°	5657.0	2097.3	28.0	17.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2721.6	747.1	17.5	14.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	666.3	164.8	10.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	147.3	31.6	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.1	14.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.5	3.5	0.0	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)