

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: P381192

Luminaire Tested: **PRV-XL-PA3A-8540-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA3A-8540-U-T2R-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 85 CRI, 4000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15285 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 172
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

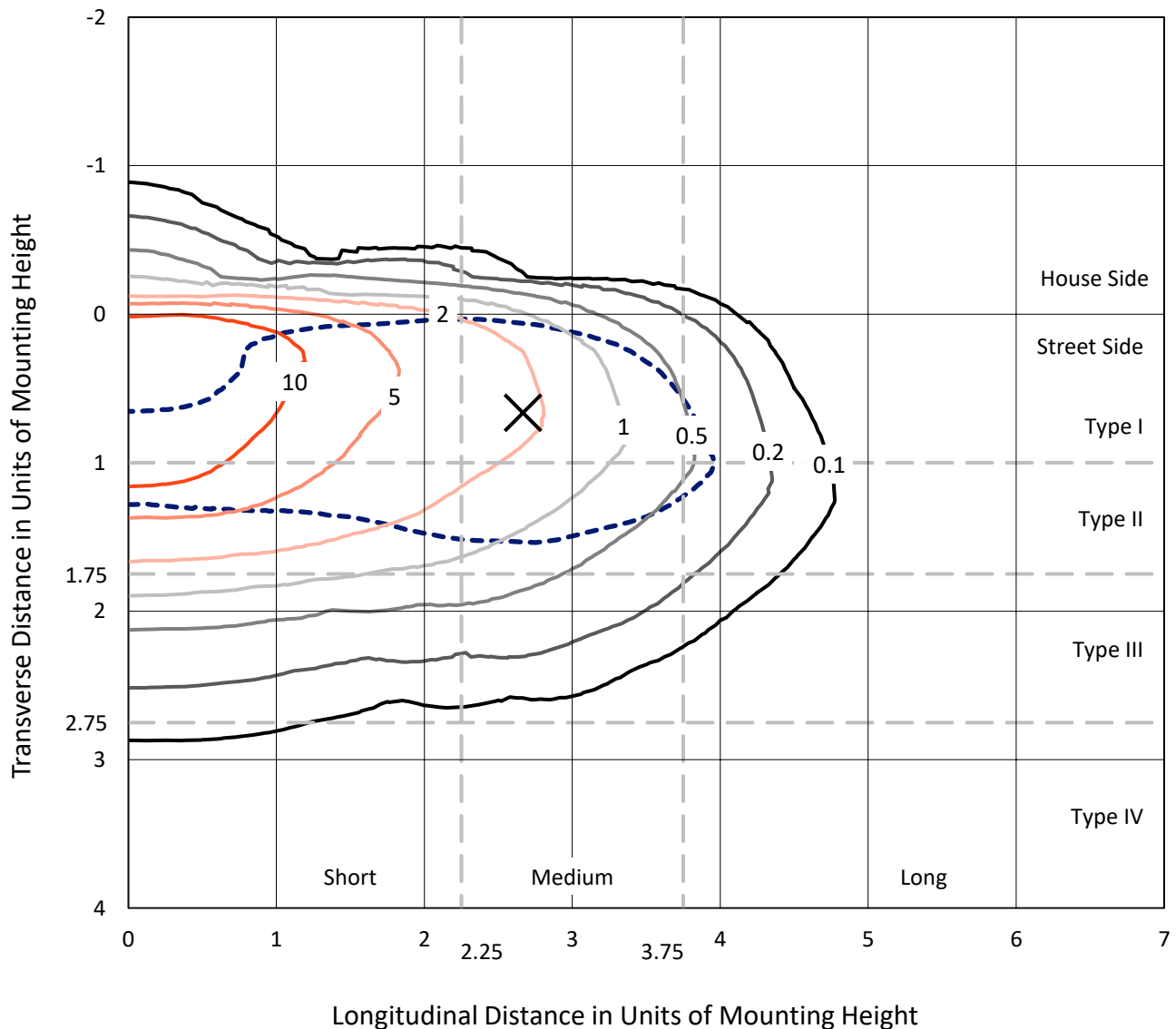


REPORT NUMBER: P381192

CATALOG NUMBER: PRV-XL-PA3A-8540-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

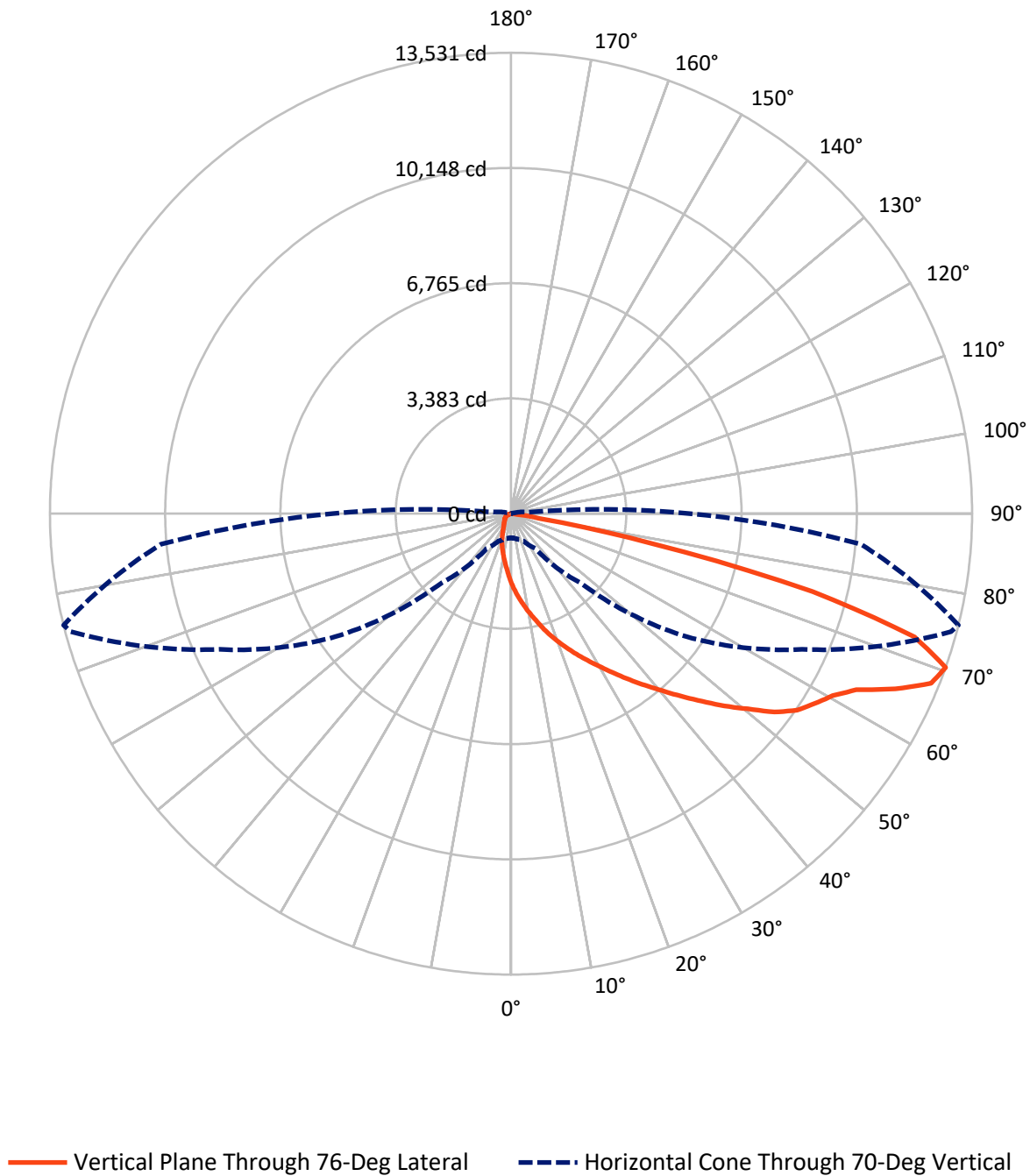


Based on 15 foot mounting height. Maximum calculated value = 17.4 fc
Type II - Medium - N/A

REPORT NUMBER: P381192

CATALOG NUMBER: PRV-XL-PA3A-8540-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P381192

CATALOG NUMBER: PRV-XL-PA3A-8540-U-T2R-HSS

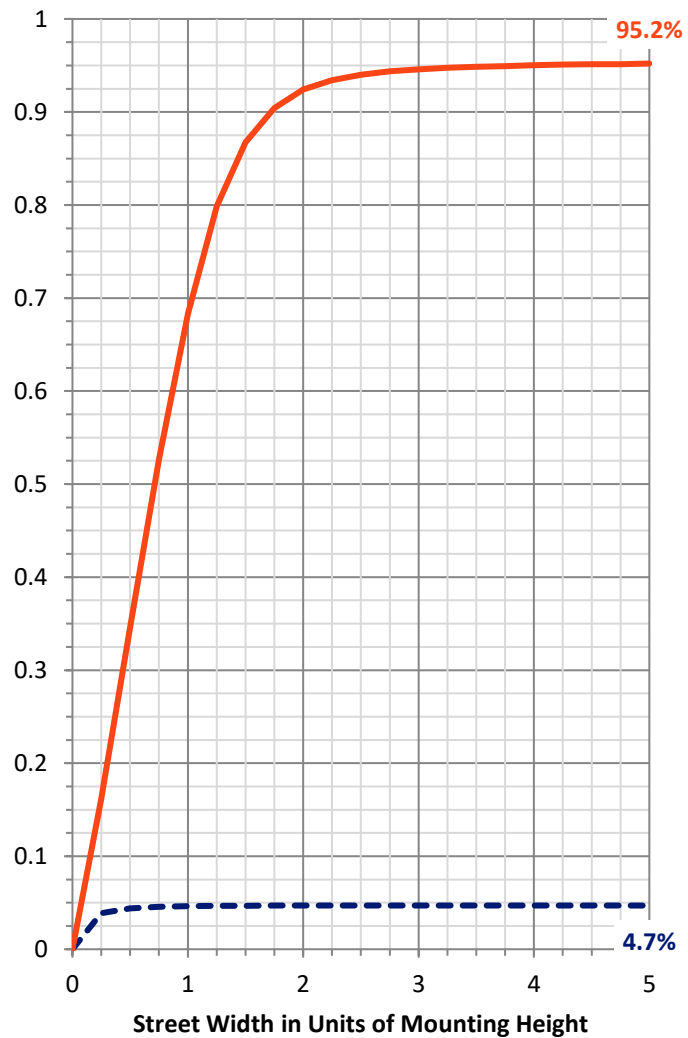
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	720.9	0.0	720.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	14564.1	0.0	14564.1
	% Fixture	95.3	0.0	95.3
Total	Lumens	15285.0	0.0	15285.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.7	1.3
10°-20°	622.1	4.1
20°-30°	1158.6	7.6
30°-40°	2049.2	13.4
40°-50°	3133.8	20.5
50°-60°	3552.9	23.2
60°-70°	3045.8	19.9
70°-80°	1475.2	9.7
80°-90°	54.7	0.4
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°	15285.0	100.0
0°-180°	15285.0	100.0

Coefficient of Utilization



REPORT NUMBER: P381192

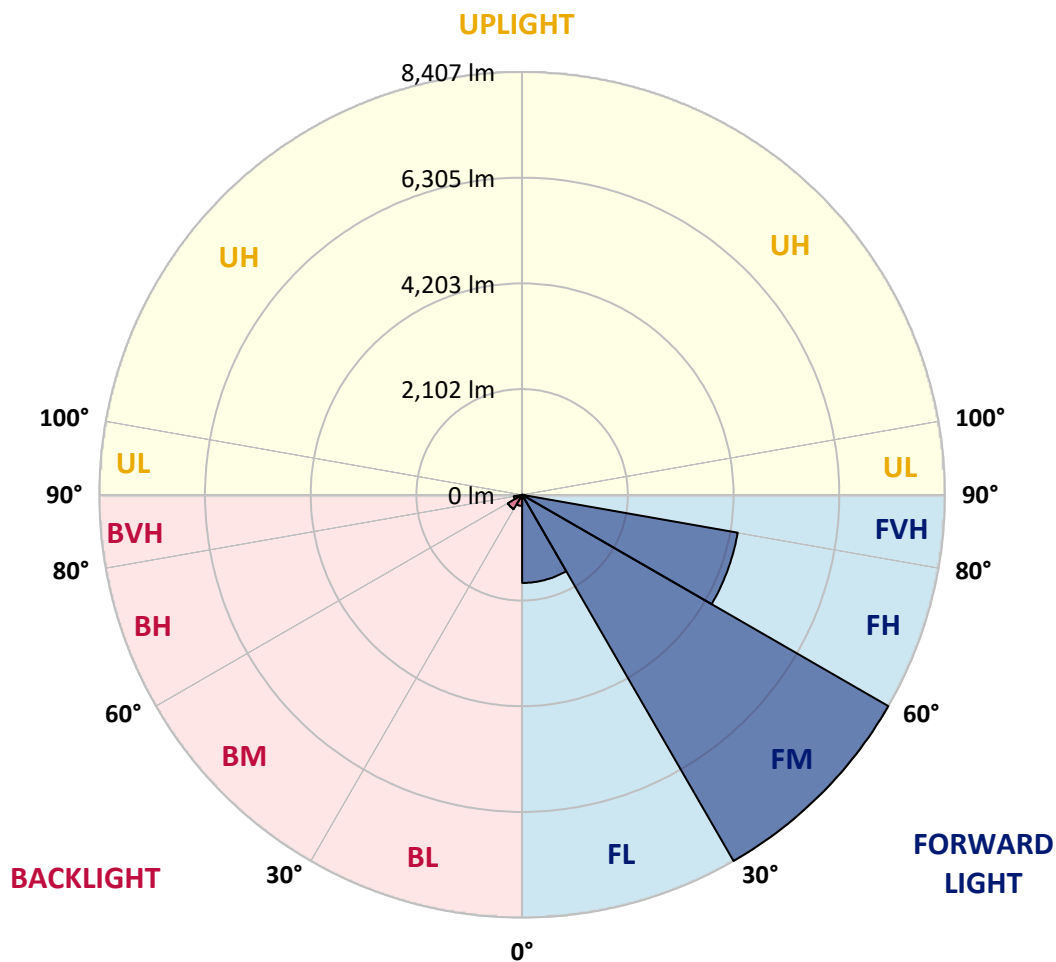
CATALOG NUMBER: PRV-XL-PA3A-8540-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1752.3	11.5			
FM	(30°-60°)	8406.8	55.0			
FH	(60°-80°)	4351.2	28.5			G2/5000
FVH	(80°-90°)	53.8	0.4			G1/100
BL	(0°-30°)	221.1	1.4	B1/500		
BM	(30°-60°)	329.1	2.2	B1/1000		
BH	(60°-80°)	169.8	1.1	B1/500		G1/500
BVH	(80°-90°)	0.9	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-G2

Type II Medium



REPORT NUMBER: P381192

CATALOG NUMBER: PRV-XL-PA3A-8540-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0
2.5°	2796.7	2781.5	2766.2	2707.6	2654.2	2605.8	2514.2	2394.6	2287.8	2264.8	2140.2
5°	3285.3	3267.5	3244.6	3186.0	3117.4	3035.9	2901.0	2717.8	2529.5	2488.8	2257.2
7.5°	3616.1	3600.9	3567.7	3539.8	3471.0	3392.2	3242.0	3028.3	2768.7	2717.8	2392.1
10°	3842.6	3832.4	3827.3	3804.4	3753.5	3689.9	3539.8	3315.8	3010.5	2951.9	2534.6
12.5°	3924.0	3924.0	3949.5	3987.7	3995.3	3974.9	3837.5	3613.5	3265.0	3203.9	2702.5
15°	3814.6	3827.3	3883.3	4005.4	4132.7	4216.7	4130.2	3921.5	3544.9	3478.7	2901.0
17.5°	3784.1	3796.8	3835.0	3941.9	4112.3	4336.3	4379.6	4219.2	3809.5	3753.5	3104.6
20°	3870.6	3883.3	3916.4	4008.0	4137.8	4364.3	4544.9	4506.8	4089.5	4030.9	3310.8
22.5°	4076.7	4084.4	4084.4	4155.6	4270.1	4438.0	4649.3	4779.0	4377.0	4313.4	3514.3
25°	4519.5	4504.2	4443.1	4407.5	4481.3	4618.8	4781.6	5018.2	4697.6	4611.1	3733.2
27.5°	5099.7	5150.6	5003.0	4832.5	4776.5	4855.4	4967.4	5229.5	5008.1	4916.5	3931.7
30°	5886.0	5865.7	5672.3	5428.0	5186.2	5158.2	5196.4	5410.1	5318.5	5232.0	4153.0
32.5°	6532.4	6570.5	6367.0	6069.3	5707.9	5537.4	5496.7	5626.5	5649.3	5593.4	4415.2
35°	7196.6	7237.3	7038.8	6708.0	6277.9	5992.9	5875.9	5893.6	6059.1	5987.8	4690.0
37.5°	7792.0	7827.7	7631.7	7293.3	6863.2	6514.6	6346.6	6209.2	6456.1	6392.4	4980.1
40°	8245.0	8250.1	8117.8	7815.0	7407.8	7046.5	6855.6	6585.8	6875.9	6832.7	5282.9
42.5°	8565.6	8575.8	8479.1	8219.5	7842.9	7507.0	7351.8	7031.2	7359.4	7321.3	5634.1
45°	8715.8	8733.6	8723.4	8484.2	8171.2	7881.1	7830.2	7504.5	7888.7	7853.1	6038.7
47.5°	8573.3	8573.3	8703.0	8670.0	8382.4	8189.0	8247.6	7998.2	8463.8	8430.8	6451.0
50°	7980.3	7988.0	8252.7	8631.8	8463.8	8420.6	8603.8	8481.7	8985.6	9005.9	6944.7
52.5°	6422.9	6410.3	7303.4	8031.2	8407.9	8524.9	8932.1	8975.4	9611.6	9672.6	7435.8
55°	4799.4	4791.8	5646.8	6967.5	8016.0	8471.5	9115.3	9415.7	10146.0	10184.2	7802.2
57.5°	3799.4	3779.0	4249.7	5616.3	7130.4	8232.3	9123.0	9499.6	10443.7	10509.9	8158.5
60°	2921.4	2903.6	3254.8	4178.5	5875.9	7596.1	8904.1	9504.7	10731.2	10848.3	8636.9
62.5°	2089.3	2109.6	2379.4	2997.7	4519.5	6697.8	8619.1	9575.9	11242.8	11375.1	9316.4
65°	1409.8	1399.6	1623.6	2040.9	3214.1	5489.1	8181.4	9726.1	12164.0	12395.5	10130.7
67.5°	979.8	987.4	1089.2	1328.4	2040.9	4214.1	7453.6	9810.1	13115.7	13296.4	10700.7
70°	707.4	717.6	773.6	893.2	1246.9	2857.8	6300.8	9425.8	13372.7	13530.5	10303.7
72.5°	465.7	486.1	570.0	633.7	796.5	1789.0	4641.6	8120.3	12265.8	12382.8	8644.6
75°	252.0	257.1	366.4	473.3	567.5	1114.6	2768.7	5476.3	9176.4	9138.2	5700.2
77.5°	196.0	203.6	226.5	338.5	381.7	613.3	1094.2	2473.5	4346.4	4229.4	1944.2
80°	119.6	124.7	157.8	201.1	267.2	356.3	320.6	671.8	883.1	827.1	285.0
82.5°	71.3	76.3	94.2	168.0	211.3	168.0	112.0	162.9	165.4	162.9	71.3
85°	12.8	12.8	66.2	117.1	112.0	48.4	66.2	53.5	48.4	50.9	15.3
87.5°	0.0	0.0	25.4	35.6	50.9	17.9	25.4	12.8	12.8	12.8	7.7
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: P381192

CATALOG NUMBER: PRV-XL-PA3A-8540-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0
2.5°	2063.8	1977.3	1799.2	1643.9	1488.7	1374.2	1287.6	1198.6	1168.1	1129.9	1109.5
5°	2099.5	1928.9	1575.2	1292.7	1053.5	870.3	753.2	682.0	636.2	603.1	595.5
7.5°	2152.9	1890.8	1394.5	1012.8	750.7	567.5	470.8	422.4	397.0	381.7	376.6
10°	2216.5	1857.7	1216.4	788.9	529.3	399.6	346.1	325.7	315.5	310.5	308.0
12.5°	2305.5	1845.0	1066.3	608.2	399.6	328.3	300.3	287.6	279.9	272.3	269.7
15°	2422.6	1850.1	928.9	470.8	330.8	292.7	269.7	257.1	246.9	239.2	239.2
17.5°	2544.8	1857.7	794.0	381.7	300.3	267.2	241.8	223.9	216.3	208.7	206.2
20°	2659.3	1855.2	664.2	325.7	272.3	239.2	213.8	196.0	183.2	175.6	175.6
22.5°	2768.7	1839.9	542.1	292.7	249.4	211.3	183.2	165.4	155.3	147.6	147.6
25°	2885.7	1809.4	442.8	267.2	221.4	185.8	157.8	140.0	132.3	124.7	124.7
27.5°	2977.4	1758.5	361.4	244.3	196.0	160.4	134.9	119.6	112.0	106.9	106.9
30°	3076.6	1684.6	300.3	218.8	170.5	137.4	114.6	101.8	94.2	91.6	91.6
32.5°	3186.0	1603.2	257.1	193.4	145.1	117.1	96.7	89.1	81.4	78.9	78.9
35°	3313.3	1531.9	231.6	168.0	127.2	99.3	84.0	76.3	71.3	71.3	71.3
37.5°	3458.4	1458.2	208.7	147.6	109.5	84.0	71.3	68.7	66.2	63.7	63.7
40°	3616.1	1379.3	188.3	129.8	94.2	71.3	61.1	61.1	58.6	58.6	58.6
42.5°	3794.3	1310.6	170.5	114.6	81.4	61.1	53.5	53.5	50.9	50.9	50.9
45°	3987.7	1246.9	155.3	101.8	71.3	53.5	48.4	45.8	43.3	43.3	43.3
47.5°	4216.7	1211.3	142.5	89.1	61.1	45.8	40.7	38.2	35.6	33.1	33.1
50°	4509.3	1226.6	129.8	73.8	53.5	38.2	33.1	30.5	28.0	25.4	25.4
52.5°	4740.9	1219.0	112.0	63.7	43.3	30.5	25.4	22.9	20.4	17.9	17.9
55°	4908.9	1188.4	96.7	53.5	33.1	25.4	20.4	15.3	12.8	12.8	12.8
57.5°	5074.2	1157.9	81.4	43.3	25.4	17.9	12.8	10.2	10.2	10.2	10.2
60°	5331.3	1114.6	71.3	35.6	20.4	12.8	7.7	7.7	5.1	5.1	5.1
62.5°	5644.3	1061.2	58.6	30.5	15.3	10.2	5.1	5.1	0.0	0.0	0.0
65°	5987.8	967.0	48.4	22.9	12.8	7.7	5.1	0.0	0.0	0.0	0.0
67.5°	5908.9	776.2	40.7	15.3	10.2	5.1	2.6	0.0	0.0	0.0	0.0
70°	5226.9	524.2	33.1	12.8	7.7	5.1	2.6	0.0	0.0	0.0	0.0
72.5°	4094.5	310.5	22.9	10.2	5.1	2.6	0.0	0.0	0.0	0.0	0.0
75°	2621.1	155.3	15.3	7.7	5.1	2.6	0.0	0.0	0.0	0.0	0.0
77.5°	878.0	76.3	10.2	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	124.7	25.4	5.1	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.0	10.2	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.2	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	2.6	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)