

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: P381195

Luminaire Tested: **PRV-XL-PA4B-8540-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381195
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-PA4B-8540-U-T2R-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 85 CRI, 4000K, 970mA 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: 24542.3 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 303
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

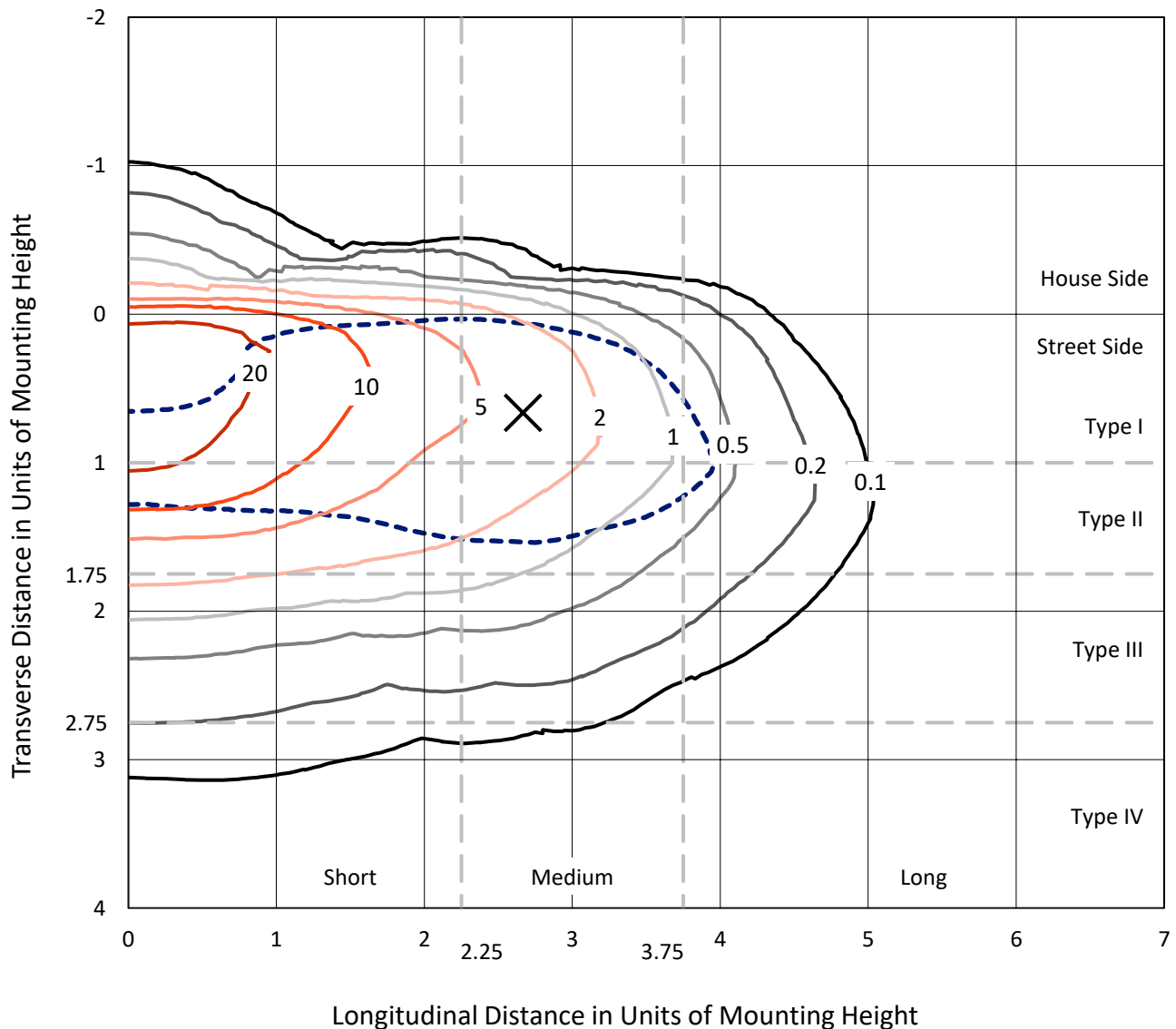


REPORT NUMBER: P381195

CATALOG NUMBER: PRV-XL-PA4B-8540-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

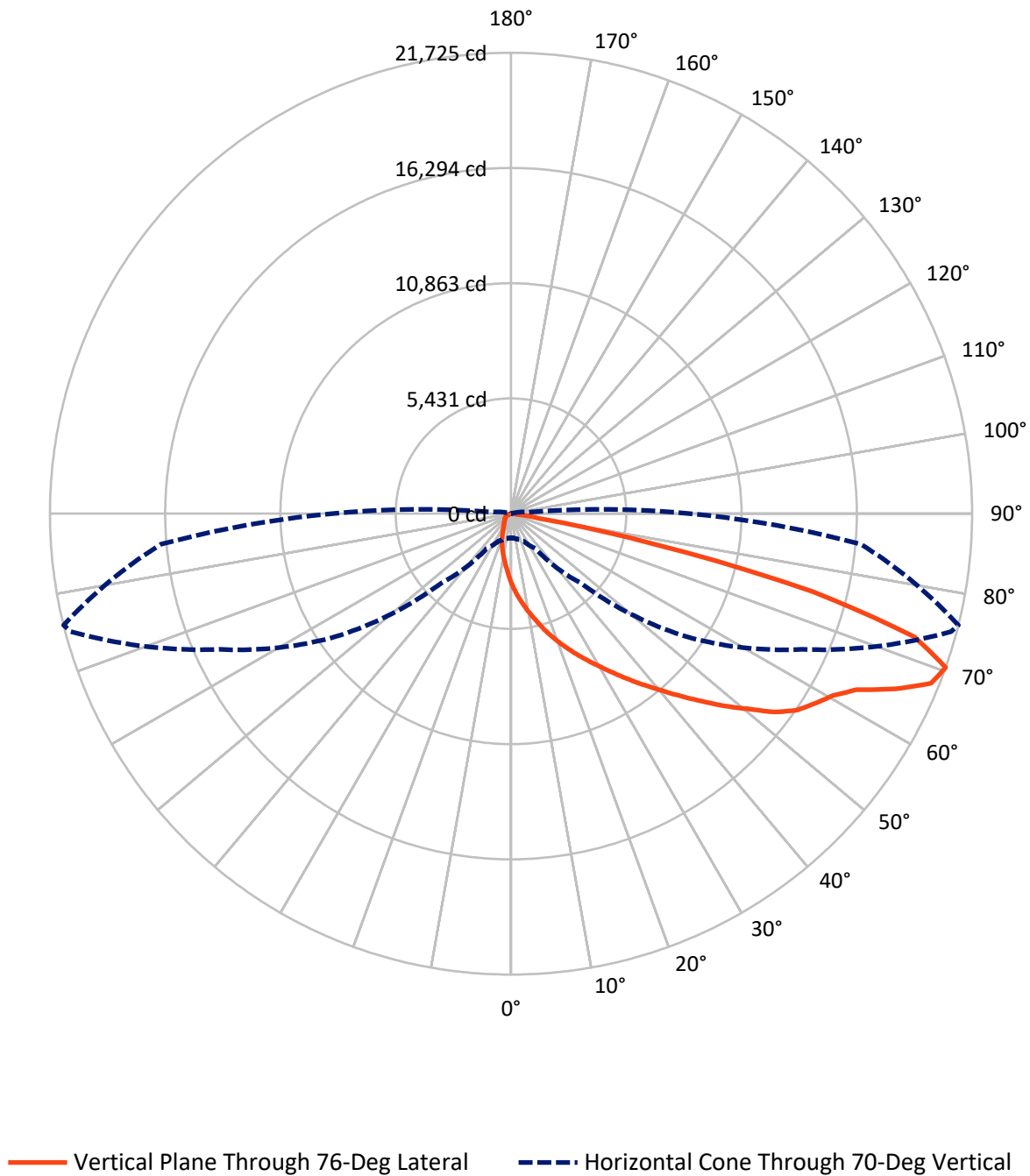


Based on 15 foot mounting height. Maximum calculated value = 27.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P381195

CATALOG NUMBER: PRV-XL-PA4B-8540-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P381195

CATALOG NUMBER: PRV-XL-PA4B-8540-U-T2R-HSS

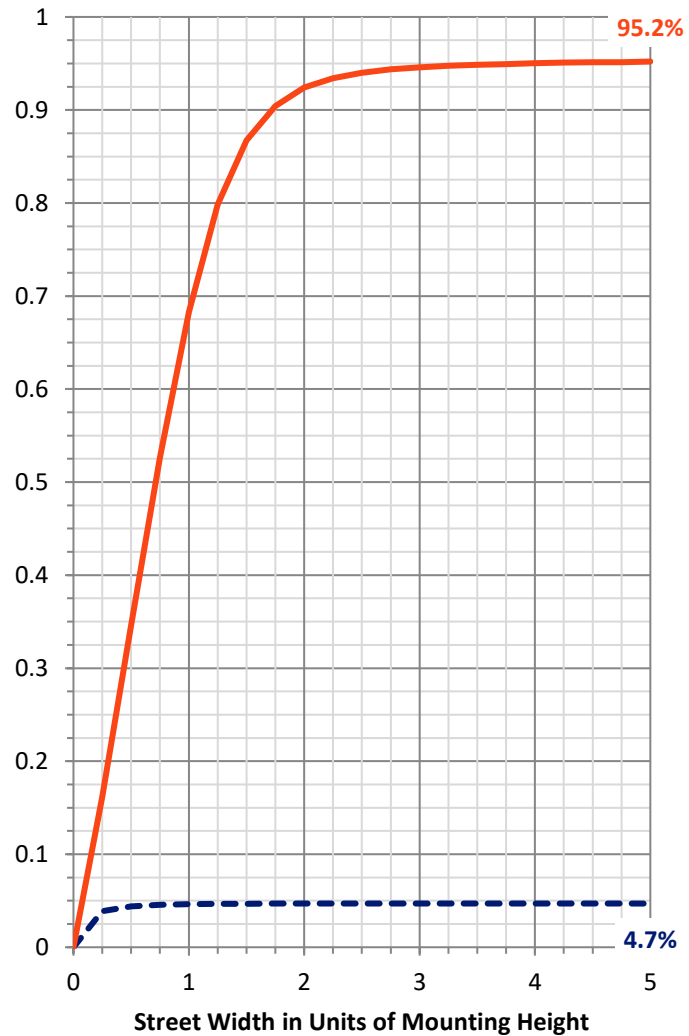
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1157.5	0.0	1157.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	23384.9	0.0	23384.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	24542.3	0.0	24542.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.5	1.3
10°-20°	998.9	4.1
20°-30°	1860.2	7.6
30°-40°	3290.4	13.4
40°-50°	5031.7	20.5
50°-60°	5704.8	23.2
60°-70°	4890.4	19.9
70°-80°	2368.6	9.7
80°-90°	87.9	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°	24542.3	100.0
0°-180°	24542.3	100.0

Coefficient of Utilization



REPORT NUMBER: P381195

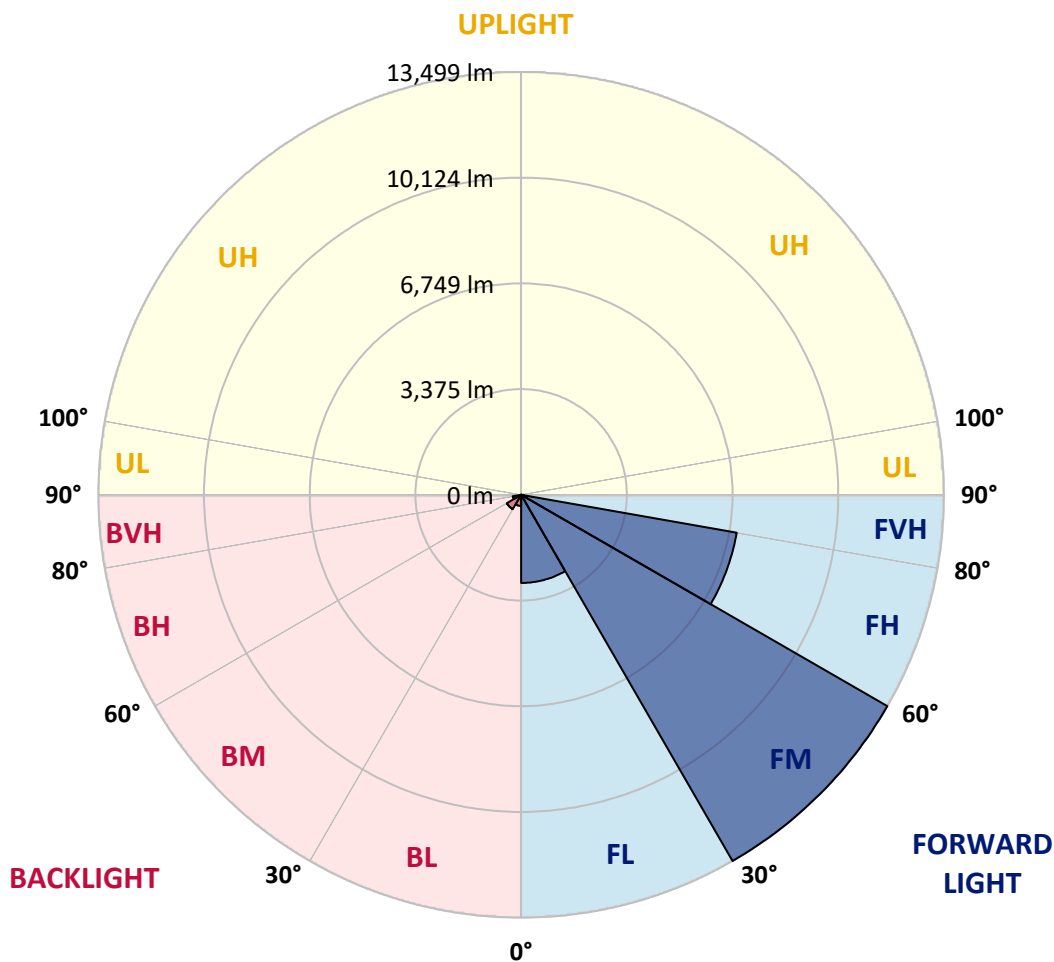
CATALOG NUMBER: PRV-XL-PA4B-8540-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2813.5	11.5			
FM	(30°-60°)	13498.5	55.0			
FH	(60°-80°)	6986.5	28.5			G3/7500
FVH	(80°-90°)	86.4	0.4			G1/100
BL	(0°-30°)	355.1	1.4	B1/500		
BM	(30°-60°)	528.4	2.2	B1/1000		
BH	(60°-80°)	272.5	1.1	B1/500		G1/500
BVH	(80°-90°)	1.5	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-G3

Type II Medium



REPORT NUMBER: P381195

CATALOG NUMBER: PRV-XL-PA4B-8540-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3285.2	3285.2	3285.2	3285.2	3285.2	3285.2	3285.2	3285.2	3285.2	3285.2	3285.2
2.5°	4490.5	4466.0	4441.5	4347.5	4261.7	4184.0	4037.0	3844.9	3673.3	3636.6	3436.4
5°	5275.1	5246.4	5209.7	5115.7	5005.3	4874.6	4658.1	4363.9	4061.5	3996.1	3624.3
7.5°	5806.3	5781.7	5728.6	5683.6	5573.3	5446.6	5205.5	4862.4	4445.6	4363.9	3840.8
10°	6169.9	6153.5	6145.4	6108.6	6026.8	5924.7	5683.6	5324.1	4833.8	4739.7	4069.6
12.5°	6300.6	6300.6	6341.5	6402.7	6415.0	6382.3	6161.7	5802.1	5242.3	5144.3	4339.3
15°	6124.9	6145.4	6235.3	6431.4	6635.7	6770.5	6631.6	6296.6	5691.8	5585.6	4658.1
17.5°	6075.9	6096.4	6157.6	6329.2	6603.0	6962.6	7032.0	6774.6	6116.7	6026.8	4985.0
20°	6214.8	6235.3	6288.4	6435.5	6643.8	7007.5	7297.6	7236.3	6566.2	6472.2	5315.9
22.5°	6545.8	6558.0	6558.0	6672.5	6856.3	7126.0	7465.1	7673.6	7028.0	6925.8	5642.8
25°	7256.8	7232.3	7134.1	7077.0	7195.5	7416.1	7677.6	8057.6	7542.8	7403.8	5994.2
27.5°	8188.4	8270.0	8033.1	7759.3	7669.4	7796.1	7975.9	8396.7	8041.3	7894.2	6312.9
30°	9451.0	9418.2	9107.7	8715.5	8327.3	8282.3	8343.6	8686.8	8539.8	8400.8	6668.3
32.5°	10488.8	10550.1	10223.2	9745.1	9164.9	8891.1	8825.7	9034.2	9071.0	8981.0	7089.2
35°	11555.2	11620.6	11301.9	10770.7	10080.2	9622.5	9434.6	9463.2	9728.8	9614.4	7530.5
37.5°	12511.3	12568.6	12254.0	11710.5	11019.9	10460.2	10190.5	9969.9	10366.2	10264.0	7996.3
40°	13238.7	13246.9	13034.4	12548.1	11894.4	11314.2	11007.7	10574.6	11040.4	10970.9	8482.6
42.5°	13753.5	13769.8	13614.6	13197.8	12593.1	12053.7	11804.5	11289.6	11816.7	11755.4	9046.4
45°	13994.6	14023.2	14006.9	13622.8	13120.2	12654.4	12572.6	12049.7	12666.6	12609.4	9696.1
47.5°	13765.8	13765.8	13974.1	13921.0	13459.3	13148.8	13242.7	12842.3	13590.1	13537.0	10358.1
50°	12813.7	12826.0	13250.9	13859.7	13590.1	13520.6	13814.8	13618.6	14427.7	14460.4	11150.7
52.5°	10313.0	10292.7	11726.8	12895.5	13500.2	13688.1	14341.9	14411.3	15432.9	15530.9	11939.3
55°	7706.2	7694.0	9066.8	11187.5	12871.0	13602.4	14636.1	15118.2	16290.9	16352.2	12527.7
57.5°	6100.4	6067.7	6823.6	9017.8	11449.0	13218.2	14648.4	15253.1	16769.0	16875.2	13099.7
60°	4690.7	4662.1	5226.0	6709.2	9434.6	12196.7	14297.0	15261.2	17230.7	17418.7	13867.9
62.5°	3354.6	3387.3	3820.4	4813.3	7256.8	10754.3	13839.3	15375.6	18052.0	18264.5	14958.9
65°	2263.7	2247.3	2606.8	3277.0	5160.6	8813.5	13136.5	15616.7	19531.2	19902.9	16266.4
67.5°	1573.1	1585.3	1748.8	2132.9	3277.0	6766.5	11967.9	15751.5	21059.3	21349.4	17181.7
70°	1135.9	1152.3	1242.2	1434.2	2002.1	4588.6	10117.0	15134.6	21472.0	21725.3	16544.2
72.5°	747.8	780.4	915.2	1017.4	1279.0	2872.4	7452.9	13038.4	19694.6	19882.5	13880.2
75°	404.5	412.7	588.3	760.0	911.2	1789.7	4445.6	8793.1	14734.2	14672.9	9152.6
77.5°	314.6	326.9	363.6	543.4	612.9	984.7	1757.0	3971.6	6978.9	6791.0	3121.7
80°	192.1	200.2	253.3	322.8	429.0	572.1	514.8	1078.7	1417.9	1328.0	457.7
82.5°	114.4	122.6	151.2	269.7	339.1	269.7	179.8	261.5	265.6	261.5	114.4
85°	20.4	20.4	106.3	187.9	179.8	77.6	106.3	85.8	77.6	81.7	24.5
87.5°	0.0	0.0	40.9	57.2	81.7	28.6	40.9	20.4	20.4	20.4	12.3
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: P381195

CATALOG NUMBER: PRV-XL-PA4B-8540-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3285.2	3285.2	3285.2	3285.2	3285.2	3285.2	3285.2	3285.2	3285.2	3285.2	3285.2
2.5°	3313.7	3174.8	2888.8	2639.6	2390.3	2206.4	2067.5	1924.5	1875.4	1814.2	1781.5
5°	3371.0	3097.2	2529.2	2075.7	1691.6	1397.4	1209.4	1095.0	1021.5	968.4	956.1
7.5°	3456.8	3035.9	2239.1	1626.2	1205.4	911.2	755.9	678.3	637.4	612.9	604.7
10°	3558.9	2982.8	1953.1	1266.7	849.9	641.5	555.7	523.0	506.7	498.5	494.4
12.5°	3701.9	2962.3	1712.0	976.6	641.5	527.1	482.2	461.7	449.4	437.2	433.2
15°	3889.9	2970.5	1491.4	755.9	531.2	469.9	433.2	412.7	396.4	384.1	384.1
17.5°	4086.0	2982.8	1274.8	612.9	482.2	429.0	388.1	359.6	347.3	335.0	331.0
20°	4269.9	2978.7	1066.4	523.0	437.2	384.1	343.2	314.6	294.2	282.0	282.0
22.5°	4445.6	2954.2	870.3	469.9	400.4	339.1	294.2	265.6	249.2	237.0	237.0
25°	4633.6	2905.2	711.0	429.0	355.5	298.2	253.3	224.7	212.5	200.2	200.2
27.5°	4780.6	2823.4	580.2	392.3	314.6	257.5	216.6	192.1	179.8	171.6	171.6
30°	4939.9	2705.0	482.2	351.4	273.7	220.6	183.8	163.4	151.2	147.1	147.1
32.5°	5115.7	2574.2	412.7	310.5	232.9	187.9	155.3	143.0	130.8	126.7	126.7
35°	5320.0	2459.8	371.8	269.7	204.3	159.3	134.8	122.6	114.4	114.4	114.4
37.5°	5552.9	2341.2	335.0	237.0	175.7	134.8	114.4	110.3	106.3	102.2	102.2
40°	5806.3	2214.6	302.4	208.4	151.2	114.4	98.0	98.0	94.0	94.0	94.0
42.5°	6092.2	2104.3	273.7	183.8	130.8	98.0	85.8	85.8	81.7	81.7	81.7
45°	6402.7	2002.1	249.2	163.4	114.4	85.8	77.6	73.5	69.5	69.5	69.5
47.5°	6770.5	1945.0	228.8	143.0	98.0	73.5	65.4	61.3	57.2	53.1	53.1
50°	7240.4	1969.5	208.4	118.5	85.8	61.3	53.1	49.0	44.9	40.9	40.9
52.5°	7612.2	1957.2	179.8	102.2	69.5	49.0	40.9	36.8	32.7	28.6	28.6
55°	7881.9	1908.2	155.3	85.8	53.1	40.9	32.7	24.5	20.4	20.4	20.4
57.5°	8147.5	1859.2	130.8	69.5	40.9	28.6	20.4	16.4	16.4	16.4	16.4
60°	8560.2	1789.7	114.4	57.2	32.7	20.4	12.3	12.3	8.1	8.1	8.1
62.5°	9062.8	1703.9	94.0	49.0	24.5	16.4	8.1	8.1	0.0	0.0	0.0
65°	9614.4	1552.7	77.6	36.8	20.4	12.3	8.1	0.0	0.0	0.0	0.0
67.5°	9487.7	1246.2	65.4	24.5	16.4	8.1	4.1	0.0	0.0	0.0	0.0
70°	8392.7	841.7	53.1	20.4	12.3	8.1	4.1	0.0	0.0	0.0	0.0
72.5°	6574.4	498.5	36.8	16.4	8.1	4.1	0.0	0.0	0.0	0.0	0.0
75°	4208.6	249.2	24.5	12.3	8.1	4.1	0.0	0.0	0.0	0.0	0.0
77.5°	1409.6	122.6	16.4	8.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	200.2	40.9	8.1	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	44.9	16.4	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.4	8.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.1	4.1	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)