

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: P381256

Luminaire Tested: **PRV-XL-PA3A-8540-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
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-T3-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 85 CRI, 4000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14231.8 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

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

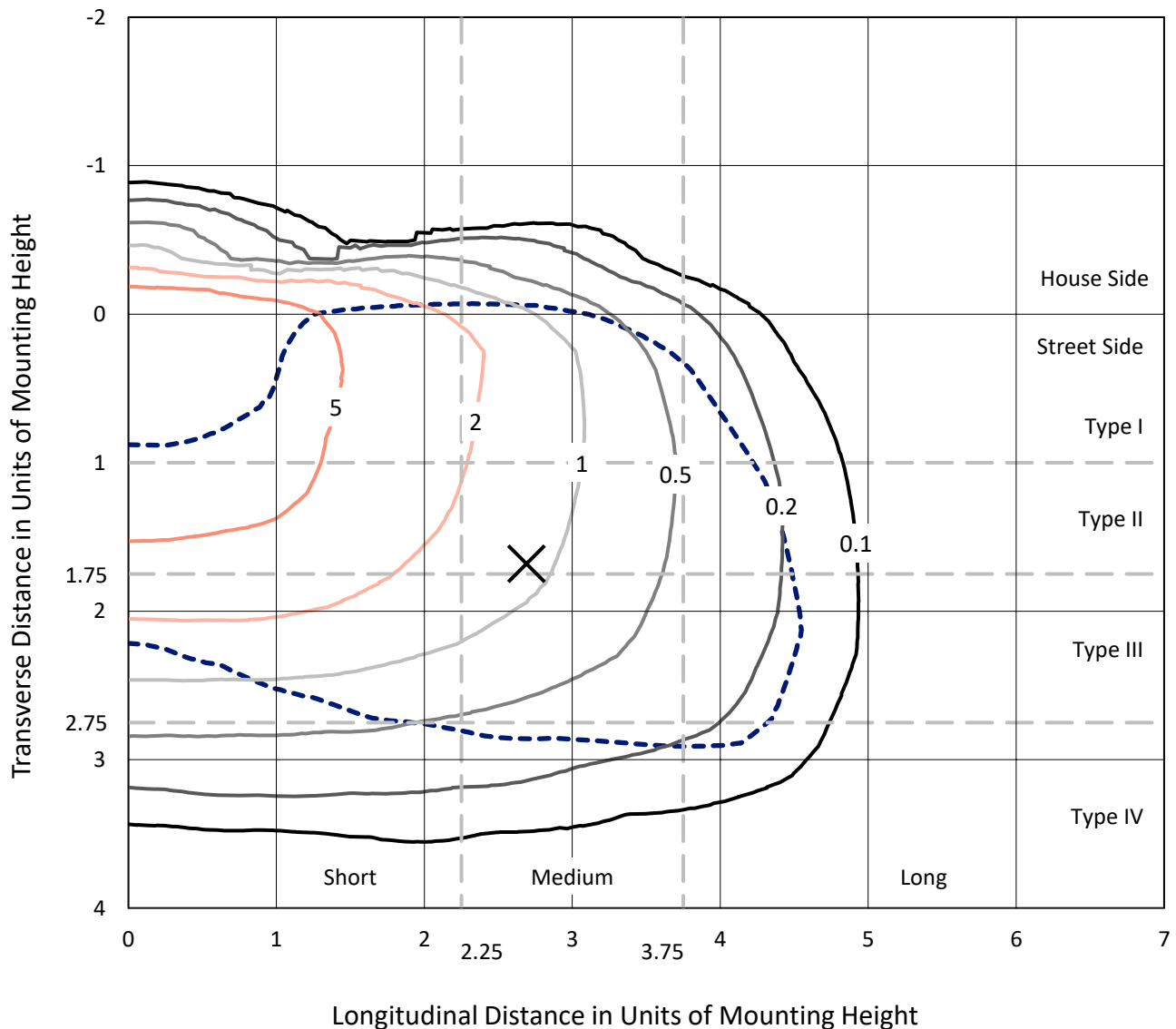


REPORT NUMBER: P381256

CATALOG NUMBER: PRV-XL-PA3A-8540-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

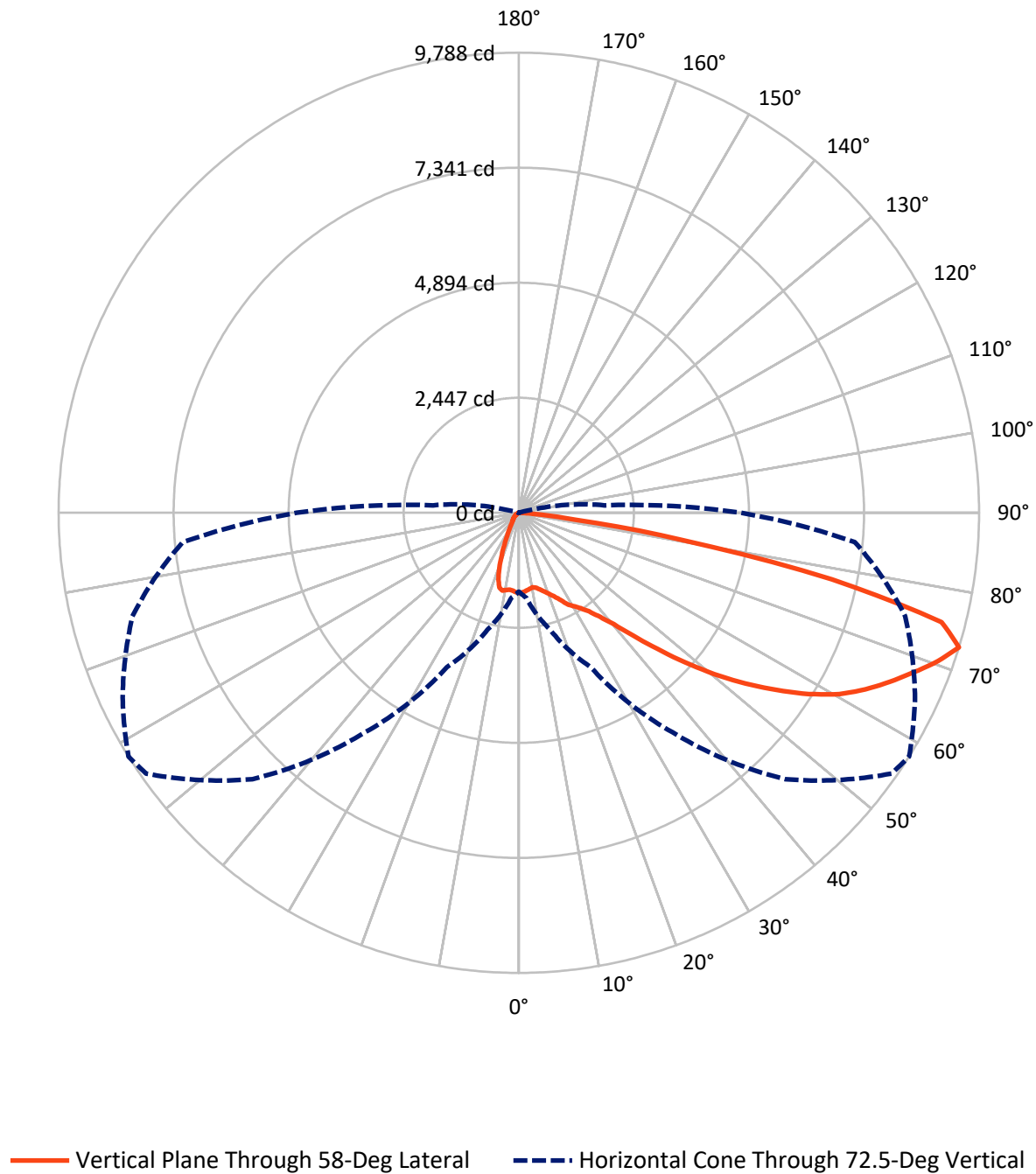


Based on 15 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Medium - N/A

REPORT NUMBER: P381256

CATALOG NUMBER: PRV-XL-PA3A-8540-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P381256

CATALOG NUMBER: PRV-XL-PA3A-8540-U-T3-HSS

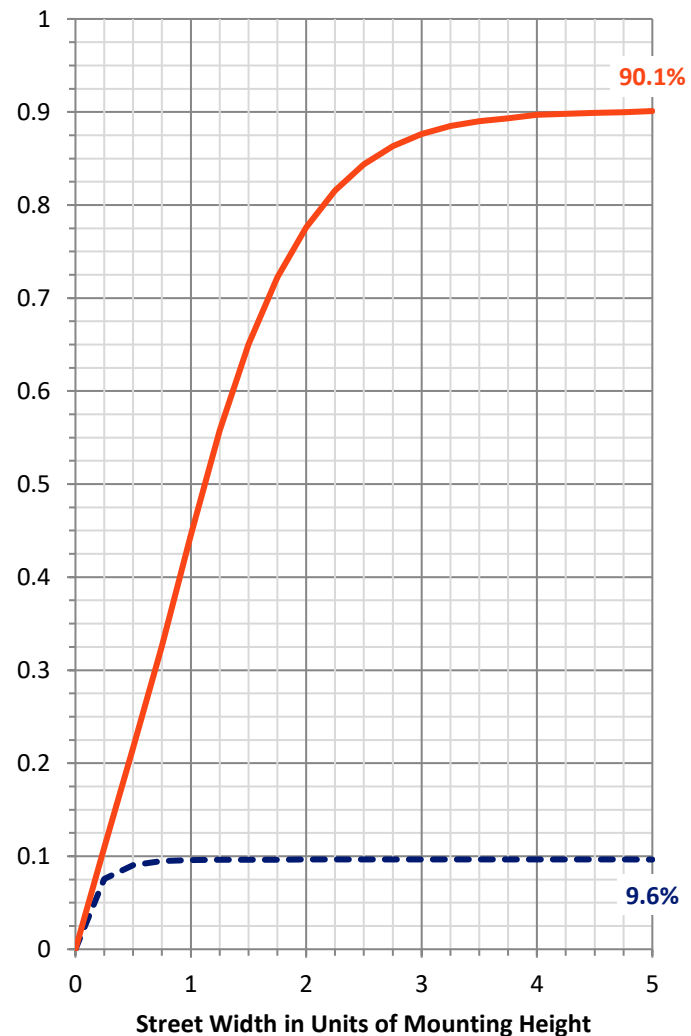
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1384.0	0.0	1384.0
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	12847.9	0.0	12847.9
	% Fixture	90.3	0.0	90.3
Total	Lumens	14231.8	0.0	14231.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	1.1
10°-20°	408.2	2.9
20°-30°	641.3	4.5
30°-40°	1105.9	7.8
40°-50°	2104.1	14.8
50°-60°	3332.2	23.4
60°-70°	3888.3	27.3
70°-80°	2435.3	17.1
80°-90°	159.9	1.1
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°	14231.8	100.0
0°-180°	14231.8	100.0

Coefficient of Utilization



REPORT NUMBER: P381256

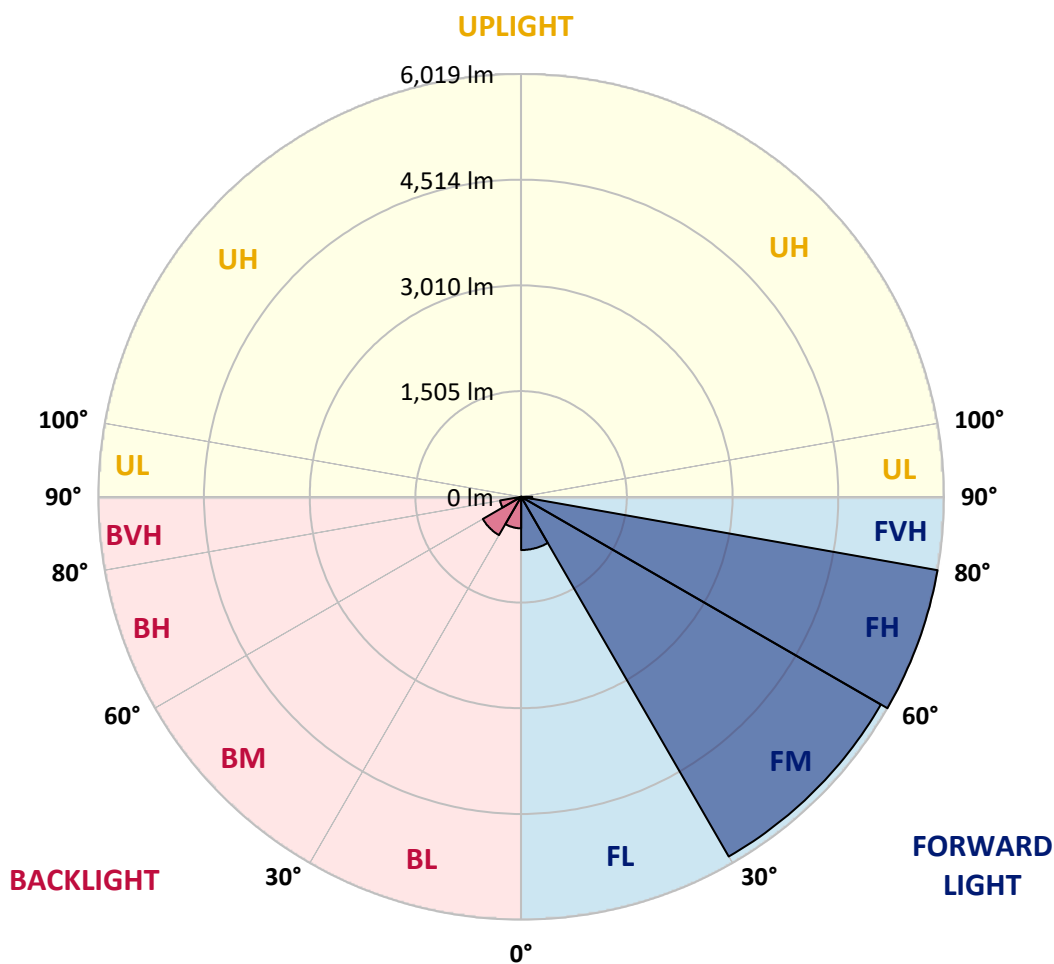
CATALOG NUMBER: PRV-XL-PA3A-8540-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	758.0	5.3			
FM	(30°-60°)	5912.5	41.5			
FH	(60°-80°)	6019.0	42.3			G3/7500
FVH	(80°-90°)	158.3	1.1			G2/225
BL	(0°-30°)	448.2	3.1	B1/500		
BM	(30°-60°)	629.7	4.4	B1/1000		
BH	(60°-80°)	304.5	2.1	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 IV Medium



REPORT NUMBER: P381256

CATALOG NUMBER: PRV-XL-PA3A-8540-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7
2.5°	1700.1	1692.5	1689.9	1687.4	1689.9	1692.5	1684.9	1692.5	1687.4	1689.9	1695.0
5°	1639.0	1631.4	1628.8	1631.4	1639.0	1651.7	1656.8	1664.5	1664.5	1672.1	1674.7
7.5°	1570.3	1565.2	1562.6	1567.7	1583.0	1611.0	1626.3	1636.5	1646.6	1661.9	1677.2
10°	1532.1	1529.6	1527.0	1534.7	1549.9	1575.4	1595.8	1611.0	1649.2	1692.5	1720.5
12.5°	1506.6	1506.6	1511.7	1527.0	1547.4	1567.7	1616.1	1636.5	1695.0	1761.2	1799.3
15°	1486.3	1486.3	1494.0	1521.9	1549.9	1598.3	1669.6	1692.5	1761.2	1842.6	1893.5
17.5°	1471.0	1476.1	1481.2	1509.2	1562.6	1644.1	1728.1	1761.2	1845.1	1934.2	1990.2
20°	1473.6	1478.7	1481.2	1509.2	1585.6	1697.5	1804.4	1842.6	1939.3	2033.5	2089.5
22.5°	1488.9	1496.5	1499.1	1537.2	1626.3	1753.5	1890.9	1934.2	2038.6	2137.8	2181.1
25°	1552.5	1557.5	1542.3	1575.4	1684.9	1840.0	2003.0	2048.8	2153.1	2244.7	2280.3
27.5°	1768.8	1773.9	1689.9	1651.7	1730.7	1911.3	2140.4	2204.0	2333.8	2394.9	2400.0
30°	2237.1	2242.2	2076.8	1896.0	1840.0	1972.4	2216.8	2305.9	2473.8	2542.5	2511.9
32.5°	2840.3	2835.2	2608.6	2341.5	2099.7	2079.3	2326.2	2420.3	2603.6	2669.8	2646.9
35°	3446.0	3453.7	3260.2	2858.1	2511.9	2280.3	2466.1	2575.6	2797.0	2891.1	2850.4
37.5°	3860.8	3911.7	3827.8	3392.6	3018.5	2651.9	2692.7	2809.7	3087.1	3214.4	3127.9
40°	4446.2	4433.5	4229.8	3909.2	3578.3	3201.7	3059.2	3115.2	3433.3	3603.8	3468.9
42.5°	5232.6	5207.2	4861.0	4548.0	4178.9	3871.0	3580.9	3570.7	3830.3	4028.8	3832.9
45°	5945.2	5907.0	5670.4	5367.5	4962.9	4609.1	4217.2	4128.1	4308.8	4476.7	4247.7
47.5°	6512.8	6449.2	6281.2	6120.9	6021.6	5471.8	4884.0	4749.1	4840.7	4965.4	4642.2
50°	7184.7	7009.1	6764.7	6668.0	6874.2	6449.2	5525.3	5395.5	5390.4	5461.7	5049.4
52.5°	7490.1	7172.0	7034.6	7116.0	7479.9	7357.8	6217.6	6031.8	5958.0	5965.6	5428.6
55°	7121.1	7085.4	7159.2	7413.8	7889.7	7818.4	6881.8	6652.8	6543.3	6405.9	5792.6
57.5°	6701.1	6810.5	7103.2	7589.4	8408.9	8299.4	7535.9	7276.3	7075.3	6759.6	6197.2
60°	6314.3	6426.2	6909.8	7630.1	8693.9	8762.6	8080.6	7833.7	7535.9	7121.1	6642.6
62.5°	5726.4	5812.9	6492.4	7571.5	8569.2	9032.4	8459.8	8274.0	7996.5	7464.7	7154.1
65°	5064.7	5120.7	5792.6	7103.2	8324.9	9001.8	8772.8	8668.4	8398.7	7823.5	7660.6
67.5°	4339.3	4405.5	4965.4	6260.9	7846.4	8859.3	9068.0	9057.8	8749.9	8220.5	8027.1
70°	3504.6	3509.6	3972.9	5191.9	7011.6	8574.3	9434.5	9457.4	9085.9	8518.3	8042.3
72.5°	1677.2	1814.6	2575.6	3624.2	5698.4	8014.4	9673.7	9788.3	9297.1	8508.1	7174.5
75°	384.3	397.1	750.8	1723.0	3341.7	6151.4	9075.7	9289.4	8783.0	7357.8	5054.5
77.5°	140.0	147.6	211.3	503.9	1285.2	3178.7	6495.0	6808.0	6492.4	4756.7	2389.8
80°	94.2	91.6	109.5	223.9	590.5	900.9	3321.3	3507.1	3201.7	1623.7	572.6
82.5°	48.4	50.9	76.3	124.7	397.1	313.0	1109.7	1206.4	992.6	325.7	106.9
85°	22.9	22.9	43.3	78.9	168.0	109.5	246.9	297.8	267.2	142.5	35.6
87.5°	22.9	22.9	40.7	50.9	86.5	45.8	61.1	76.3	71.3	76.3	12.8
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: P381256

CATALOG NUMBER: PRV-XL-PA3A-8540-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7
2.5°	1695.0	1692.5	1689.9	1695.0	1692.5	1697.5	1697.5	1702.6	1702.6	1697.5	1695.0
5°	1672.1	1667.0	1661.9	1661.9	1659.4	1664.5	1679.8	1692.5	1695.0	1687.4	1684.9
7.5°	1674.7	1674.7	1669.6	1659.4	1641.6	1641.6	1641.6	1656.8	1664.5	1659.4	1656.8
10°	1720.5	1723.0	1710.3	1687.4	1656.8	1628.8	1575.4	1496.5	1422.7	1402.4	1394.7
12.5°	1799.3	1801.9	1776.5	1735.8	1672.1	1506.6	1303.1	1114.8	969.7	929.0	921.3
15°	1893.5	1896.0	1850.2	1784.1	1590.7	1206.4	903.5	689.7	562.4	531.9	529.4
17.5°	1990.2	1985.1	1916.4	1789.2	1348.9	855.1	549.7	440.3	407.2	399.6	402.1
20°	2084.4	2069.2	1975.0	1695.0	1038.4	559.9	402.1	376.7	369.0	363.9	363.9
22.5°	2170.9	2140.4	2023.4	1509.2	727.9	402.1	358.8	353.8	343.6	336.0	333.4
25°	2257.5	2214.2	2053.9	1267.4	488.7	351.3	338.5	328.3	315.5	305.4	302.9
27.5°	2361.8	2300.7	2038.6	962.0	366.5	325.7	315.5	300.3	282.5	267.2	262.1
30°	2461.0	2392.4	1952.0	664.3	313.0	300.3	285.0	262.1	239.2	221.4	216.3
32.5°	2585.8	2506.9	1796.8	435.2	272.3	262.1	246.9	218.8	188.3	168.0	162.9
35°	2763.9	2674.9	1598.3	305.4	239.2	221.4	201.1	170.5	137.4	122.1	119.6
37.5°	3013.4	2893.7	1348.9	246.9	211.3	185.8	155.3	124.7	101.8	89.1	86.5
40°	3318.7	3135.5	1071.5	218.8	188.3	155.3	117.1	89.1	73.8	63.7	63.7
42.5°	3649.6	3362.0	789.0	201.1	165.4	127.2	86.5	63.7	53.5	48.4	45.8
45°	3990.6	3563.0	531.9	185.8	145.1	96.7	61.1	43.3	35.6	35.6	33.1
47.5°	4344.4	3698.0	343.6	168.0	122.1	71.3	40.7	30.5	25.4	25.4	25.4
50°	4695.7	3769.2	244.3	152.7	99.3	48.4	30.5	22.9	20.4	20.4	20.4
52.5°	4950.1	3723.4	196.0	132.3	76.3	35.6	22.9	17.9	15.3	15.3	15.3
55°	5171.6	3644.6	170.5	114.6	56.0	25.4	17.9	15.3	12.8	12.8	12.8
57.5°	5398.1	3542.7	152.7	96.7	40.7	17.9	12.8	10.2	10.2	10.2	10.2
60°	5604.2	3369.6	132.3	76.3	28.0	12.8	10.2	7.7	7.7	7.7	7.7
62.5°	5805.2	3222.0	114.6	58.6	20.4	10.2	5.1	5.1	2.6	2.6	2.6
65°	5919.8	3023.6	91.6	38.2	12.8	7.7	2.6	2.6	0.0	0.0	0.0
67.5°	5884.2	2786.9	63.7	22.9	7.7	5.1	2.6	0.0	0.0	0.0	0.0
70°	5637.3	2468.7	38.2	12.8	7.7	5.1	2.6	0.0	0.0	0.0	0.0
72.5°	4721.1	1827.4	22.9	10.2	5.1	2.6	0.0	0.0	0.0	0.0	0.0
75°	3153.3	839.8	12.8	7.7	2.6	2.6	0.0	0.0	0.0	0.0	0.0
77.5°	1443.1	252.0	7.7	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	290.1	66.2	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	61.1	12.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.8	5.1	0.0	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)