

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: P381130

Luminaire Tested: **PRV-XL-PA4A-8540-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
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-T2U
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 85 CRI, 4000K, 785mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26646.3 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - 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

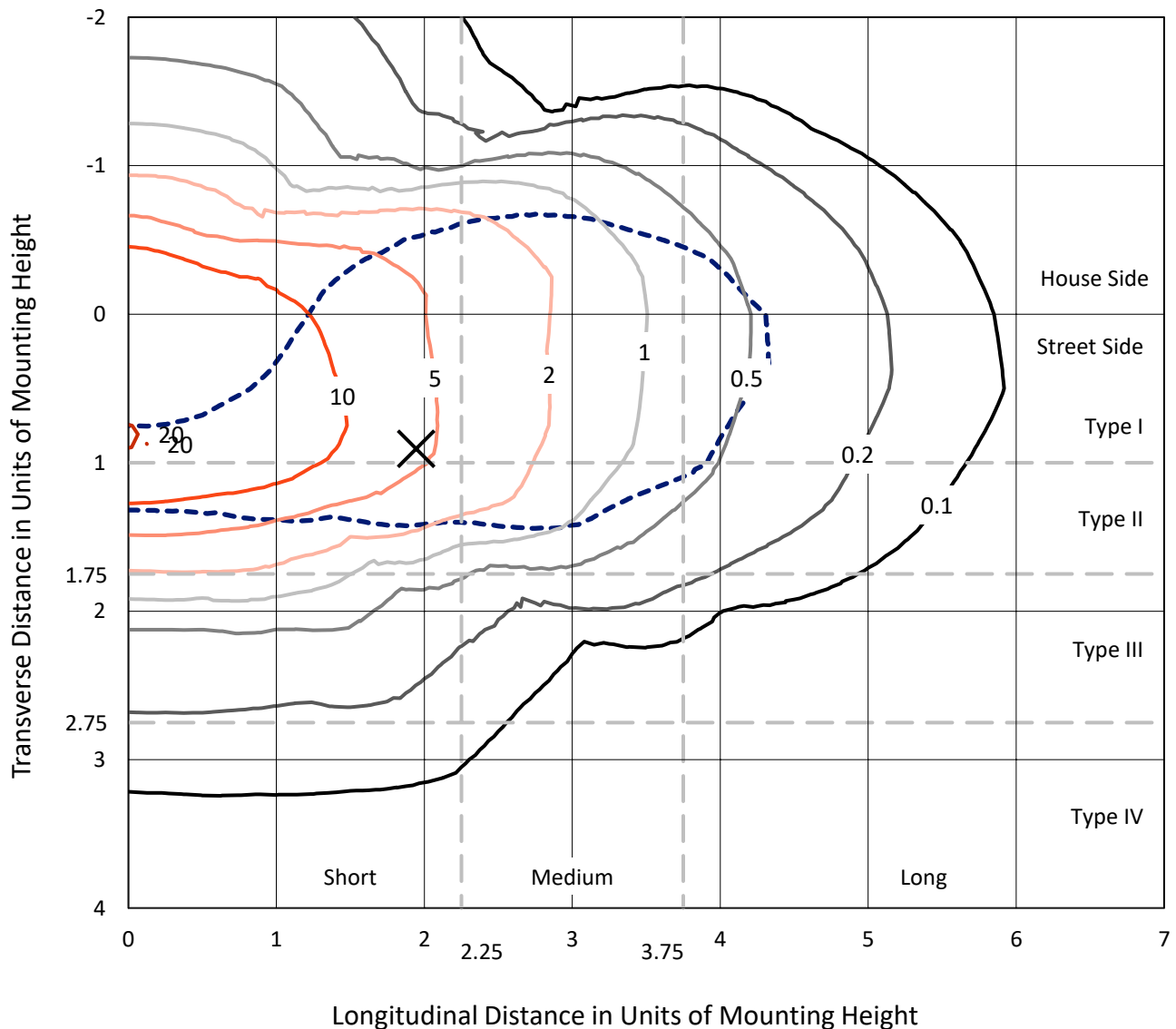


REPORT NUMBER: P381130

CATALOG NUMBER: PRV-XL-PA4A-8540-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

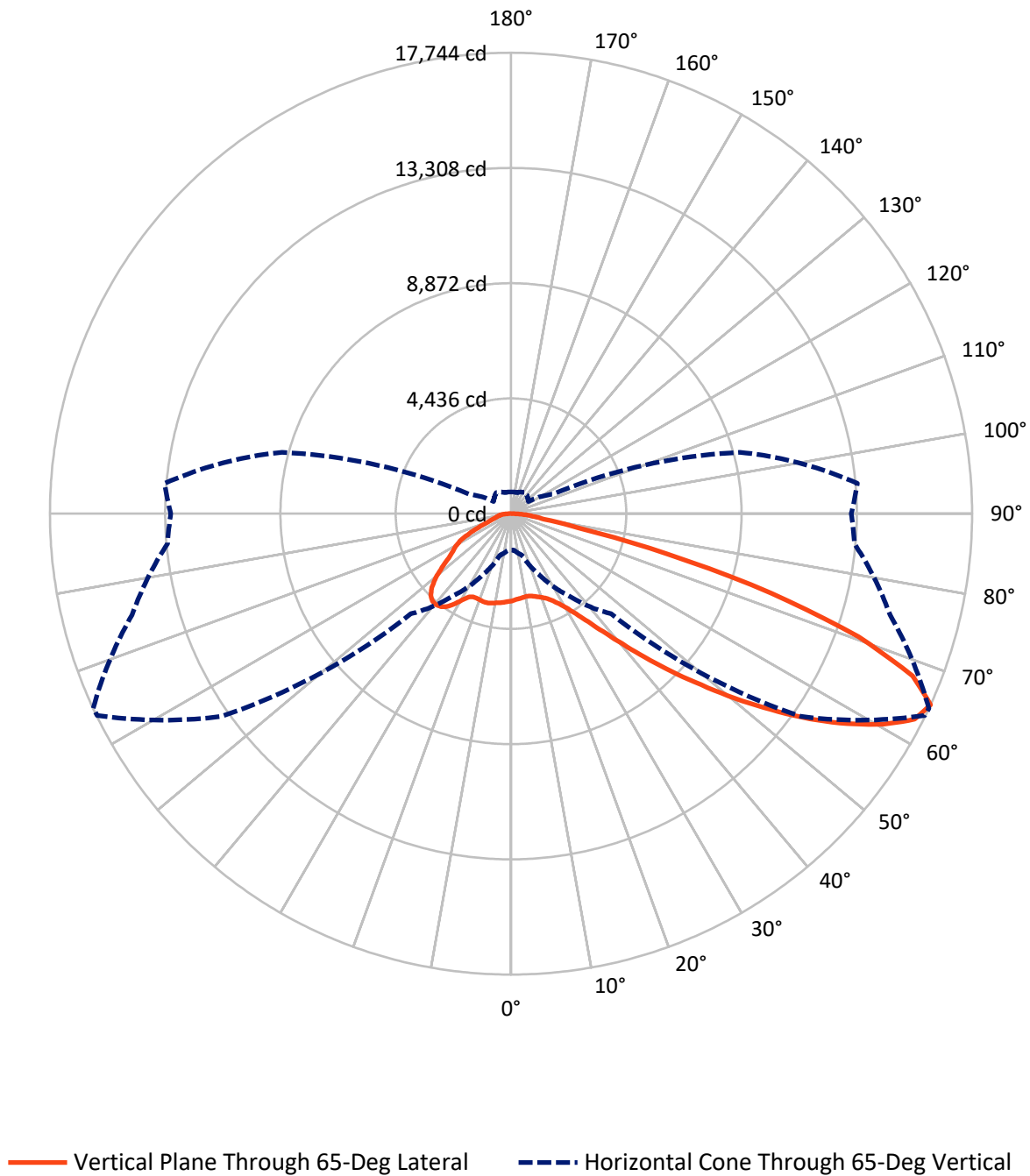


Based on 15 foot mounting height. Maximum calculated value = 20.4 fc
Type II - Short - N/A

REPORT NUMBER: P381130

CATALOG NUMBER: PRV-XL-PA4A-8540-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P381130

CATALOG NUMBER: PRV-XL-PA4A-8540-U-T2U

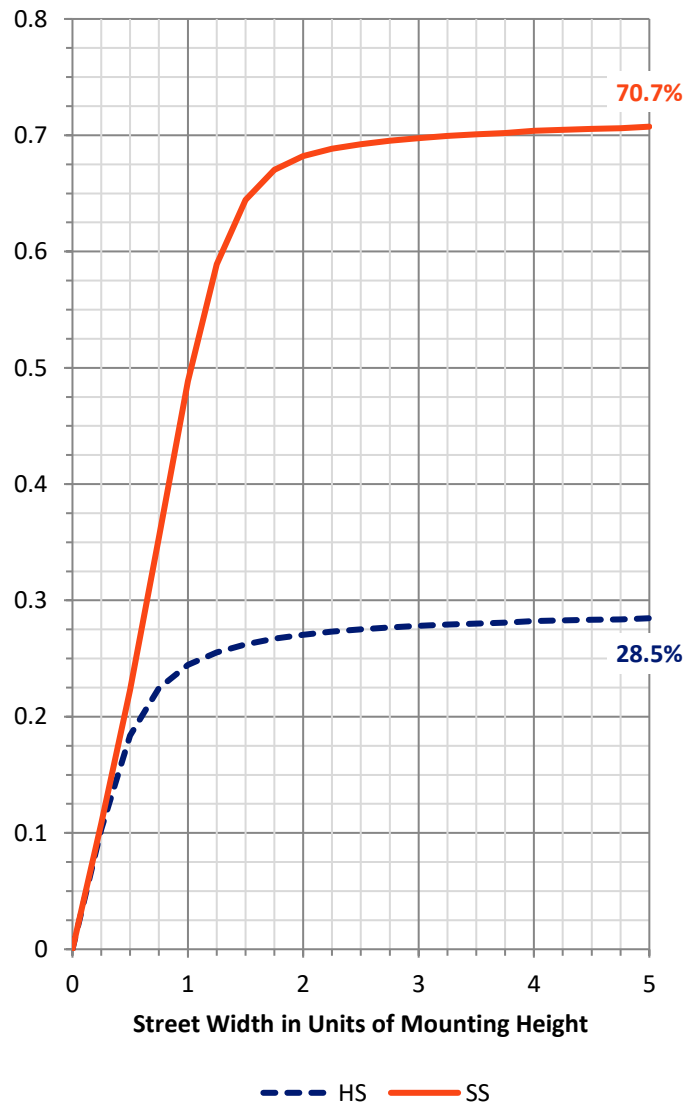
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7703.8	0.0	7703.8
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	18942.4	0.0	18942.4
	% Fixture	71.1	0.0	71.1
Total	Lumens	26646.3	0.0	26646.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.8	1.2
10°-20°	957.7	3.6
20°-30°	1701.2	6.4
30°-40°	2878.0	10.8
40°-50°	5010.0	18.8
50°-60°	6474.5	24.3
60°-70°	5665.6	21.3
70°-80°	3081.7	11.6
80°-90°	556.8	2.1
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°	26646.3	100.0
0°-180°	26646.3	100.0

Coefficient of Utilization



REPORT NUMBER: P381130

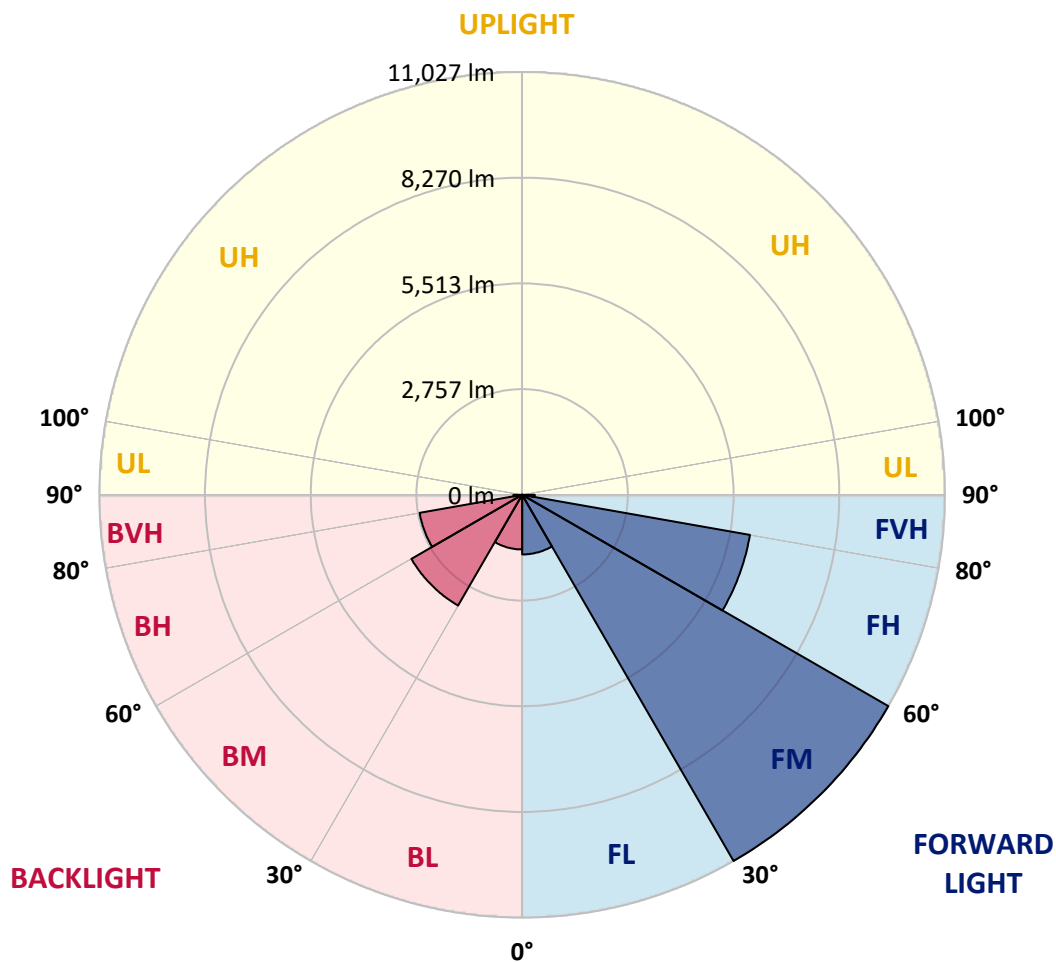
CATALOG NUMBER: PRV-XL-PA4A-8540-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1554.7	5.8			
FM	(30°-60°)	11027.0	41.4			
FH	(60°-80°)	6033.1	22.6			G3/7500
FVH	(80°-90°)	327.7	1.2			G3/500
BL	(0°-30°)	1424.9	5.3	B3/2500		
BM	(30°-60°)	3335.6	12.5	B3/5000		
BH	(60°-80°)	2714.2	10.2	B4/5000		G4/5000
BVH	(80°-90°)	229.1	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



REPORT NUMBER: P381130

CATALOG NUMBER: PRV-XL-PA4A-8540-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3367.0	3367.0	3367.0	3367.0	3367.0	3367.0	3367.0	3367.0	3367.0	3367.0	3367.0
2.5°	3307.4	3303.9	3296.9	3303.9	3307.4	3314.4	3310.9	3317.9	3314.4	3324.9	3342.5
5°	3223.2	3216.2	3212.7	3230.3	3240.8	3258.3	3265.3	3289.9	3286.3	3303.9	3332.0
7.5°	3128.6	3128.6	3125.0	3146.0	3160.1	3191.7	3216.2	3258.3	3261.8	3293.4	3324.9
10°	3054.9	3058.4	3054.9	3072.4	3093.5	3132.0	3174.1	3233.7	3237.2	3282.8	3314.4
12.5°	3026.8	3026.8	3026.8	3051.4	3079.4	3132.0	3181.1	3244.3	3251.3	3300.3	3328.5
15°	3065.4	3068.9	3061.8	3086.4	3118.0	3181.1	3226.7	3293.4	3300.3	3346.0	3363.5
17.5°	3202.2	3216.2	3198.6	3212.7	3205.7	3254.8	3296.9	3363.5	3367.0	3405.6	3412.6
20°	3472.2	3486.2	3458.2	3440.7	3377.5	3374.0	3391.6	3444.2	3444.2	3468.7	3451.2
22.5°	3889.6	3903.6	3854.6	3787.9	3637.1	3563.4	3524.8	3549.4	3545.9	3556.4	3510.8
25°	4443.8	4440.2	4380.7	4257.9	4015.9	3837.0	3742.3	3703.7	3703.7	3682.7	3626.5
27.5°	5131.2	5078.6	4973.4	4826.0	4489.3	4240.3	4036.9	3938.7	3921.2	3858.0	3752.8
30°	5864.2	5825.6	5674.8	5460.9	5071.6	4752.4	4415.7	4219.3	4208.8	4072.0	3914.1
32.5°	6727.0	6663.9	6495.5	6239.5	5773.1	5324.1	4903.2	4605.1	4587.5	4370.1	4152.6
35°	7835.3	7782.7	7456.5	7200.5	6600.8	6011.5	5513.5	5117.1	5103.1	4836.6	4559.5
37.5°	9164.6	9027.8	8712.1	8231.7	7600.3	6902.4	6271.0	5773.1	5755.5	5460.9	5110.2
40°	10350.1	10227.3	9946.7	9504.8	8827.9	8052.8	7197.0	6593.7	6576.2	6218.4	5776.5
42.5°	11226.9	11142.7	10960.4	10704.3	10220.3	9750.3	8379.0	7586.3	7554.7	7091.8	6541.1
45°	11735.4	11668.8	11563.6	11626.7	11619.7	11532.0	9788.9	8768.3	8666.6	8066.8	7393.4
47.5°	11612.7	11553.1	11595.1	12086.2	12763.1	13271.6	11430.3	9978.3	9841.5	9059.4	8301.8
50°	10725.4	10749.9	10970.8	11910.8	13429.5	14558.8	13250.6	11356.6	11174.3	10059.0	9164.6
52.5°	9108.5	9168.1	9704.7	11019.9	13355.8	15393.5	14895.6	12780.6	12538.6	11034.0	9950.2
55°	7235.5	7386.4	8080.8	9462.7	12394.8	15453.2	16137.1	14211.6	13945.1	11949.4	10634.2
57.5°	5352.1	5576.6	6379.8	7649.4	10553.5	14509.7	16757.9	15579.4	15256.8	12857.8	11356.6
60°	3395.1	3531.9	4457.8	5955.4	8077.3	12201.9	16677.3	16743.9	16463.3	13762.6	12110.7
62.5°	2167.5	2234.1	2700.6	4247.4	5646.8	9034.8	15796.9	17624.2	17434.8	14586.9	12826.2
65°	1392.4	1420.4	1658.9	2612.9	3844.0	5453.8	13604.9	17718.9	17743.5	15102.4	13268.2
67.5°	1132.8	1146.9	1234.6	1613.4	2718.2	3012.7	9476.7	16372.1	16670.2	14969.2	13117.3
70°	1031.1	1048.7	1139.9	1287.2	2104.4	2079.8	4587.5	13699.5	14187.0	14201.1	12447.4
72.5°	869.8	894.3	1017.1	1217.0	1627.4	1641.4	1943.0	9757.4	10476.3	12692.9	11440.8
75°	726.0	740.0	845.2	1073.3	1378.4	1311.8	1364.4	5173.3	6211.5	10178.2	10371.1
77.5°	589.2	603.2	680.4	855.8	1224.1	1020.6	1073.3	2143.0	2648.0	6909.4	8477.1
80°	420.9	434.9	522.6	666.4	925.9	918.9	796.2	1181.9	1283.7	3735.3	5506.4
82.5°	301.6	312.2	396.4	477.0	641.8	922.5	599.8	803.2	841.7	1655.4	2220.1
85°	203.4	203.4	273.6	315.6	413.9	582.2	484.0	543.6	568.1	785.7	599.8
87.5°	87.7	87.7	147.3	161.3	217.4	270.1	361.3	273.6	280.5	424.4	245.5
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: P381130

CATALOG NUMBER: PRV-XL-PA4A-8540-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3367.0	3367.0	3367.0	3367.0	3367.0	3367.0	3367.0	3367.0	3367.0	3367.0	3367.0
2.5°	3353.0	3356.5	3363.5	3384.5	3398.6	3419.6	3430.2	3444.2	3444.2	3437.1	3440.7
5°	3346.0	3356.5	3381.1	3419.6	3444.2	3482.8	3510.8	3531.9	3538.8	3531.9	3535.4
7.5°	3342.5	3360.0	3402.1	3458.2	3493.3	3542.4	3581.0	3605.5	3623.0	3616.1	3619.6
10°	3332.0	3360.0	3412.6	3482.8	3535.4	3584.5	3619.6	3630.1	3640.6	3633.6	3630.1
12.5°	3346.0	3377.5	3433.7	3517.9	3577.4	3616.1	3626.5	3609.0	3584.5	3570.4	3567.0
15°	3374.0	3405.6	3461.7	3549.4	3602.0	3616.1	3591.5	3535.4	3479.3	3447.7	3444.2
17.5°	3412.6	3433.7	3479.3	3556.4	3598.5	3581.0	3531.9	3465.2	3423.1	3398.6	3402.1
20°	3437.1	3437.1	3472.2	3531.9	3567.0	3552.9	3493.3	3419.6	3353.0	3321.4	3310.9
22.5°	3472.2	3454.7	3458.2	3510.8	3559.9	3538.8	3412.6	3282.8	3188.1	3153.1	3149.5
25°	3567.0	3517.9	3486.2	3517.9	3633.6	3461.7	3209.2	3058.4	2970.7	2939.1	2942.6
27.5°	3682.7	3616.1	3549.4	3602.0	3693.2	3286.3	2949.6	2777.8	2725.2	2700.6	2711.1
30°	3798.4	3710.7	3623.0	3812.4	3651.1	3012.7	2616.5	2448.1	2402.5	2384.9	2399.0
32.5°	4012.3	3868.6	3763.3	4093.1	3521.3	2700.6	2255.2	2100.9	2058.8	2037.8	2030.7
35°	4370.1	4187.7	4082.5	4338.5	3338.9	2353.4	1925.5	1816.8	1771.2	1725.6	1718.6
37.5°	4885.7	4664.7	4570.1	4478.8	3082.9	2009.6	1673.0	1599.4	1532.7	1462.6	1459.0
40°	5502.9	5215.3	5145.2	4541.9	2728.7	1687.1	1497.6	1427.5	1343.3	1276.7	1280.2
42.5°	6215.0	5846.7	5695.9	4524.4	2290.3	1515.2	1371.3	1294.2	1220.5	1161.0	1157.4
45°	6976.1	6558.6	6211.5	4401.6	1855.4	1395.9	1294.2	1203.0	1129.3	1062.7	1055.7
47.5°	7817.8	7351.3	6688.5	4163.1	1532.7	1311.8	1248.6	1118.8	1052.2	1010.1	1010.1
50°	8666.6	8108.9	7126.9	3801.9	1343.3	1248.6	1181.9	1073.3	1020.6	985.6	985.6
52.5°	9392.6	8898.0	7488.1	3370.5	1224.1	1196.0	1136.4	1052.2	996.1	964.5	961.0
55°	10097.6	9631.1	7810.7	2942.6	1125.9	1125.9	1125.9	1034.7	971.5	943.4	940.0
57.5°	10799.0	10402.7	8147.5	2662.0	1038.2	1066.2	1104.8	1013.6	950.5	925.9	922.5
60°	11591.6	11328.6	8536.8	2465.7	961.0	1003.1	1076.8	989.1	915.4	894.3	890.8
62.5°	12433.4	12433.4	8891.0	2188.6	890.8	950.5	1034.7	957.5	883.9	866.3	862.8
65°	13092.8	13376.9	9119.0	1774.7	820.7	897.9	985.6	915.4	841.7	838.3	831.2
67.5°	13169.9	13615.4	8975.2	1339.8	757.6	841.7	936.5	869.8	799.7	799.7	789.1
70°	12615.8	13068.2	8526.2	1003.1	712.0	785.7	873.4	813.7	747.1	754.1	736.6
72.5°	11689.9	11802.1	7410.9	792.6	659.4	726.0	796.2	750.6	690.9	690.9	666.4
75°	10469.3	9845.0	5383.8	662.9	596.3	655.8	719.0	680.4	627.8	610.3	596.3
77.5°	8333.4	7133.8	3128.6	571.7	543.6	589.2	631.3	603.2	557.7	519.1	519.1
80°	5078.6	4180.7	1381.9	494.5	480.5	515.6	543.6	512.1	473.5	434.9	424.4
82.5°	1932.5	1613.4	669.9	424.4	420.9	441.9	463.0	431.4	403.3	385.8	333.2
85°	529.6	487.5	459.5	354.2	347.3	343.7	368.2	354.2	315.6	259.6	231.5
87.5°	199.9	228.0	249.0	217.4	231.5	213.9	245.5	224.5	199.9	129.7	115.7
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)