

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: P285828

Luminaire Tested: **PRV-XL-C150-D-UNV-T4-BZ-7030**

Issue Date: 2/13/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P285828  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-9)  
Test Lab: INNOVATIONS CENTER(G2)  
Issue Date: 2/13/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-XL-C150-D-UNV-T4-BZ-7030  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40343 lumens  
Efficiency: N/A  
Efficacy: 141.6 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

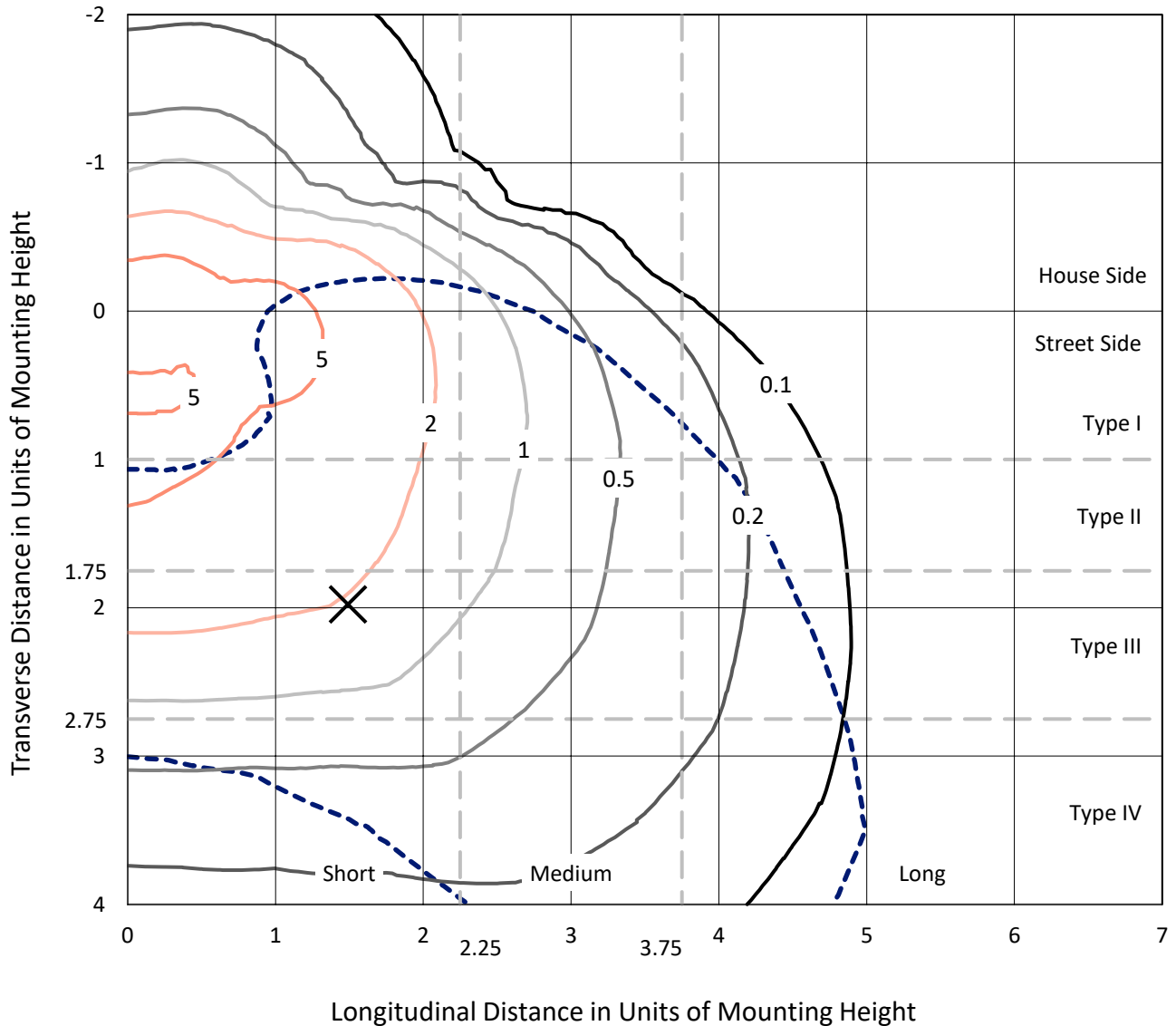
Input Watts (W): 285  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P285828  
 CATALOG NUMBER: PRV-XL-C150-D-UNV-T4-BZ-7030

### Iso-Footcandle Lines of Horizontal Illumination

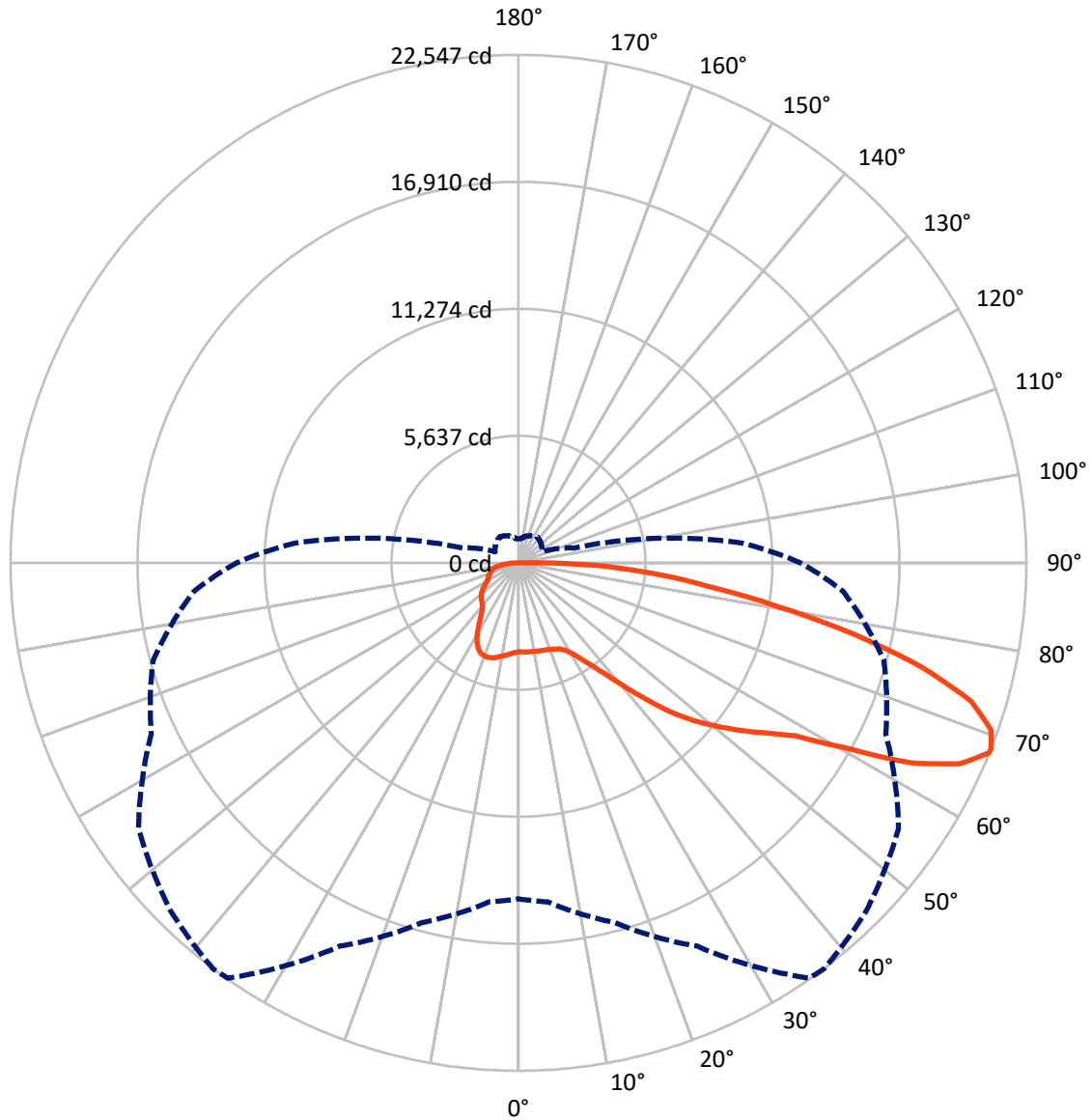
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P285828  
CATALOG NUMBER: PRV-XL-C150-D-UNV-T4-BZ-7030

### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P285828  
 CATALOG NUMBER: PRV-XL-C150-D-UNV-T4-BZ-7030

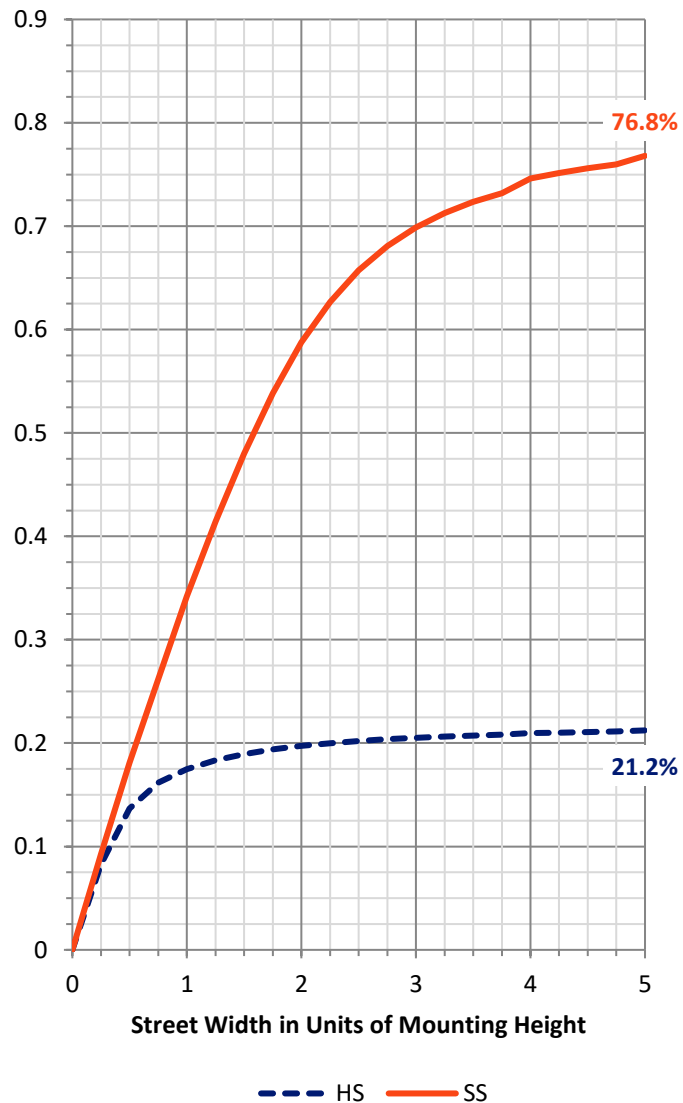
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8711.2	0.0	8711.2
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	31631.8	0.0	31631.8
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	40343.0	0.0	40343.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	383.1	0.9
10°-20°	1190.8	3.0
20°-30°	2033.9	5.0
30°-40°	3240.3	8.0
40°-50°	5619.9	13.9
50°-60°	8146.4	20.2
60°-70°	10273.5	25.5
70°-80°	7612.6	18.9
80°-90°	1842.6	4.6
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°	40343.0	100.0
0°-180°	40343.0	100.0

**Coefficient of Utilization**



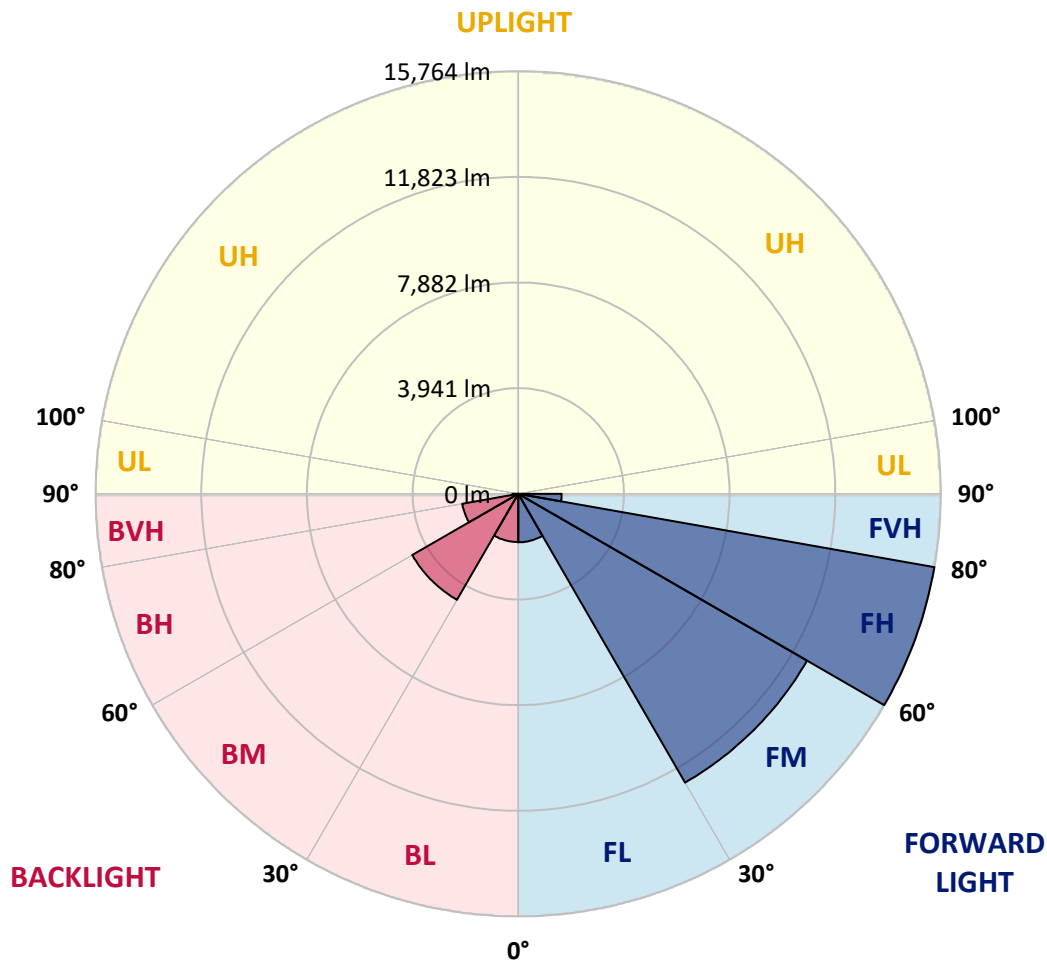
REPORT NUMBER: P285828  
 CATALOG NUMBER: PRV-XL-C150-D-UNV-T4-BZ-7030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1808.6	4.5			
FM (30°-60°)	12440.0	30.8			
FH (60°-80°)	15764.0	39.1			G5
FVH (80°-90°)	1619.2	4.0			G5
BL (0°-30°)	1799.2	4.5	B3/2500		
BM (30°-60°)	4566.6	11.3	B3/5000		
BH (60°-80°)	2122.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	223.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





REPORT NUMBER: P285828

CATALOG NUMBER: PRV-XL-C150-D-UNV-T4-BZ-7030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3941.8	3941.8	3941.8	3941.8	3941.8	3941.8	3941.8	3941.8	3941.8	3941.8	3941.8
2.5°	3943.4	3954.2	3957.3	3951.1	3957.3	3963.5	3949.6	3948.0	3941.8	3917.1	3920.2
5°	3944.9	3958.8	3960.4	3955.7	3966.6	3972.7	3966.6	3960.4	3954.2	3918.6	3926.4
7.5°	3944.9	3955.7	3958.8	3955.7	3971.2	3982.0	3982.0	3986.7	3986.7	3946.5	3952.6
10°	3931.0	3940.3	3944.9	3952.6	3978.9	3994.4	4003.7	4025.3	4037.7	4009.8	4011.4
12.5°	3867.6	3875.4	3890.8	3935.6	3997.5	4016.0	4042.3	4081.0	4111.9	4111.9	4115.0
15°	3818.2	3825.9	3855.3	3915.5	4009.8	4034.6	4085.6	4150.5	4207.7	4238.6	4263.4
17.5°	3830.5	3839.8	3883.1	3934.1	4028.4	4053.1	4125.8	4220.1	4314.4	4380.8	4430.3
20°	3869.2	3875.4	3924.8	3983.6	4084.0	4101.0	4172.2	4288.1	4419.5	4529.2	4609.6
22.5°	3978.9	3975.8	4016.0	4039.2	4142.8	4158.2	4240.2	4359.2	4529.2	4694.6	4812.1
25°	4070.1	4084.0	4116.5	4135.1	4220.1	4234.0	4336.0	4467.4	4663.7	4877.0	5065.6
27.5°	4170.6	4183.0	4215.4	4257.2	4376.2	4383.9	4455.0	4617.3	4835.3	5096.6	5398.0
30°	4397.8	4396.3	4428.8	4473.6	4634.4	4648.3	4714.7	4881.7	5084.2	5410.4	5773.6
32.5°	4790.5	4787.4	4792.0	4853.9	5028.5	5061.0	5146.0	5367.1	5620.6	5935.9	6339.4
35°	5595.8	5563.4	5501.6	5452.1	5551.0	5588.1	5773.6	6047.2	6500.1	7120.0	7619.3
37.5°	6926.8	6875.8	6667.1	6384.2	6269.8	6265.2	6395.0	6810.9	7515.8	8758.6	9210.0
40°	8202.1	8203.6	7920.8	7537.4	7180.3	7161.8	7087.6	7602.3	8614.8	10296.7	10508.4
42.5°	9410.9	9403.2	9073.9	8723.0	8296.4	8240.7	8024.3	8420.1	9712.4	11562.7	11604.4
45°	10500.7	10476.0	10122.0	9896.3	9529.9	9418.6	9131.1	9256.3	10740.3	12578.3	12431.4
47.5°	11553.4	11528.7	11086.6	10868.6	10547.1	10454.3	10149.8	10205.5	11723.5	13423.9	13100.8
50°	12640.1	12632.4	11992.4	11780.7	11439.0	11400.4	11216.4	11256.6	12749.9	14127.2	13723.7
52.5°	13927.8	13728.4	13009.6	12604.6	12361.9	12360.3	12154.7	12258.3	13884.5	14754.8	14156.6
55°	15309.7	15057.8	14322.0	13739.2	13321.8	13328.0	13008.0	13175.0	14881.6	15315.9	14570.8
57.5°	16296.0	16243.4	16023.9	15441.1	14578.6	14476.6	13985.0	14116.4	15756.5	15897.2	14869.2
60°	17215.7	17439.9	17586.7	17401.2	16966.9	16671.6	15308.2	15111.9	16527.8	16408.8	15025.3
62.5°	17795.4	17911.4	18596.1	18851.2	19532.9	19556.1	17925.3	16317.6	17184.8	16730.4	15094.9
65°	17157.0	17328.6	18463.2	19460.3	21404.9	21516.2	20828.3	18328.7	17708.9	16841.6	14963.5
67.5°	15376.2	15555.5	16918.9	18964.1	22440.6	22516.3	21802.2	20415.6	17970.1	16818.5	14578.6
68°	14920.2	15111.9	16534.0	18777.0	22511.7	22547.3	21840.8	20588.7	17987.1	16792.2	14453.4
70°	13032.8	13221.4	14662.1	17606.8	22230.4	22253.5	21596.6	20771.1	17899.0	16566.5	13629.4
72.5°	10237.9	10428.1	11564.2	14935.7	20817.5	21020.0	20684.5	20251.7	17526.4	15686.9	11686.4
75°	7254.5	7449.3	8631.8	11689.4	17946.9	18509.6	19178.9	19256.2	16132.1	13471.8	8706.0
77.5°	5115.1	5274.3	6297.6	8738.5	14484.3	15212.4	16606.7	16721.1	13510.4	10279.7	4592.6
80°	3320.4	3456.4	4373.1	6404.3	10949.0	11578.2	13110.1	12637.0	9601.1	5589.7	799.2
82.5°	2004.9	2106.9	2785.6	4430.3	8012.0	8430.9	9055.4	7586.9	4455.0	789.9	279.8
85°	1150.1	1219.6	1720.5	2845.8	5645.3	6002.4	6089.0	3808.9	837.8	218.0	157.7
87.5°	589.0	624.5	922.9	1748.3	3335.9	3488.9	3054.5	1363.4	166.9	97.4	78.8
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: P285828

CATALOG NUMBER: PRV-XL-C150-D-UNV-T4-BZ-7030

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3941.8	3941.8	3941.8	3941.8	3941.8	3941.8	3941.8	3941.8	3941.8	3941.8	3941.8
2.5°	3904.7	3915.5	3923.3	3949.6	3977.4	3991.3	3977.4	3999.0	4006.8	4000.6	3991.3
5°	3914.0	3931.0	3943.4	3995.9	4026.8	4050.0	4034.6	4065.5	4076.3	4063.9	4063.9
7.5°	3940.3	3963.5	3983.6	4053.1	4088.7	4119.6	4110.3	4132.0	4141.2	4125.8	4135.1
10°	4009.8	4033.0	4059.3	4145.9	4169.1	4198.4	4181.4	4198.4	4201.5	4190.7	4198.4
12.5°	4130.4	4145.9	4196.9	4285.0	4288.1	4295.8	4260.3	4227.8	4213.9	4193.8	4207.7
15°	4285.0	4312.8	4382.4	4456.6	4436.5	4419.5	4331.4	4226.3	4159.8	4110.3	4107.2
17.5°	4456.6	4506.0	4592.6	4640.5	4594.2	4516.9	4368.5	4190.7	4029.9	3941.8	3914.0
20°	4632.8	4710.1	4805.9	4815.2	4736.4	4588.0	4362.3	4099.5	3833.6	3669.8	3629.6
22.5°	4847.7	4948.2	5034.7	4988.3	4830.7	4612.7	4305.1	3938.7	3573.9	3325.0	3287.9
25°	5132.1	5231.0	5246.5	5110.5	4866.2	4566.3	4173.7	3699.1	3236.9	2927.8	2898.4
27.5°	5475.3	5527.8	5427.4	5173.8	4822.9	4427.2	3949.6	3366.8	2861.3	2592.3	2547.5
30°	5855.5	5837.0	5560.3	5175.4	4696.2	4190.7	3609.5	2989.6	2564.5	2332.6	2289.4
32.5°	6337.8	6215.7	5694.8	5105.8	4487.5	3872.3	3209.1	2688.2	2360.5	2123.9	2082.2
35°	7296.2	6925.2	5877.2	4996.1	4210.8	3490.4	2858.2	2470.2	2185.8	1913.7	1875.1
37.5°	8753.9	7985.7	6206.4	4875.5	3903.2	3099.4	2589.2	2300.2	2048.2	1757.6	1697.3
40°	10032.3	9157.4	6732.0	4762.7	3589.4	2802.6	2434.7	2218.2	1972.5	1678.8	1616.9
42.5°	11013.9	10095.7	7333.3	4628.2	3261.7	2583.1	2369.7	2207.4	1963.2	1678.8	1621.6
45°	11806.9	10870.2	7868.2	4481.3	2944.8	2409.9	2311.0	2187.3	1944.6	1669.5	1615.4
47.5°	12433.0	11448.3	8290.2	4312.8	2615.5	2292.4	2250.7	2117.8	1896.7	1641.7	1587.6
50°	12975.6	11862.6	8526.7	4115.0	2323.4	2199.7	2165.7	2006.5	1800.9	1559.7	1524.2
52.5°	13354.3	12199.6	8616.4	4033.0	2114.7	2094.6	2049.8	1893.6	1697.3	1462.3	1422.1
55°	13638.7	12372.7	8542.2	3846.0	1906.0	1932.3	1912.2	1807.1	1624.7	1402.1	1361.9
57.5°	13784.0	12429.9	8330.4	3141.1	1708.1	1739.0	1753.0	1759.1	1613.8	1419.1	1382.0
60°	13835.0	12340.2	7868.2	2243.0	1496.3	1558.2	1635.5	1658.7	1565.9	1354.1	1323.2
62.5°	13757.7	12106.8	6962.3	1550.5	1335.6	1445.3	1547.4	1541.2	1442.2	1258.3	1216.6
65°	13456.3	11534.9	5294.4	1250.6	1281.5	1394.3	1507.2	1431.4	1335.6	1165.5	1143.9
67.5°	12726.7	10330.7	2969.5	1154.7	1264.5	1365.0	1437.6	1346.4	1239.7	1079.0	1069.7
68°	12510.3	9976.7	2535.1	1148.5	1261.4	1355.7	1419.1	1324.8	1221.2	1065.1	1058.9
70°	11248.9	8152.6	1143.9	1128.4	1242.8	1321.7	1368.0	1264.5	1153.2	1017.1	1007.9
72.5°	8692.1	5048.6	768.3	1072.8	1196.5	1270.7	1300.0	1202.6	1109.9	958.4	946.0
75°	5152.2	1388.1	728.1	977.0	1117.6	1221.2	1252.1	1154.7	1045.0	870.3	850.2
77.5°	1267.6	500.8	704.9	868.7	1035.7	1139.3	1188.7	1122.3	989.3	783.7	763.6
80°	384.9	398.8	670.9	751.3	932.1	1017.1	1046.5	1046.5	915.1	551.9	581.2
82.5°	253.5	320.0	572.0	564.2	740.4	842.5	786.8	789.9	718.8	245.8	287.5
85°	159.2	261.2	386.5	369.4	471.5	516.3	559.6	575.0	505.5	71.1	4.6
87.5°	81.9	111.3	136.0	145.3	187.0	267.4	358.6	352.4	259.7	63.4	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)