

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: P285854

Luminaire Tested: **PRV-XL-C175-D-UNV-T4-BZ-HSS**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-10)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 2/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-C175-D-UNV-T4-BZ-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44062 lumens
Efficiency: N/A
Efficacy: 127.3 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

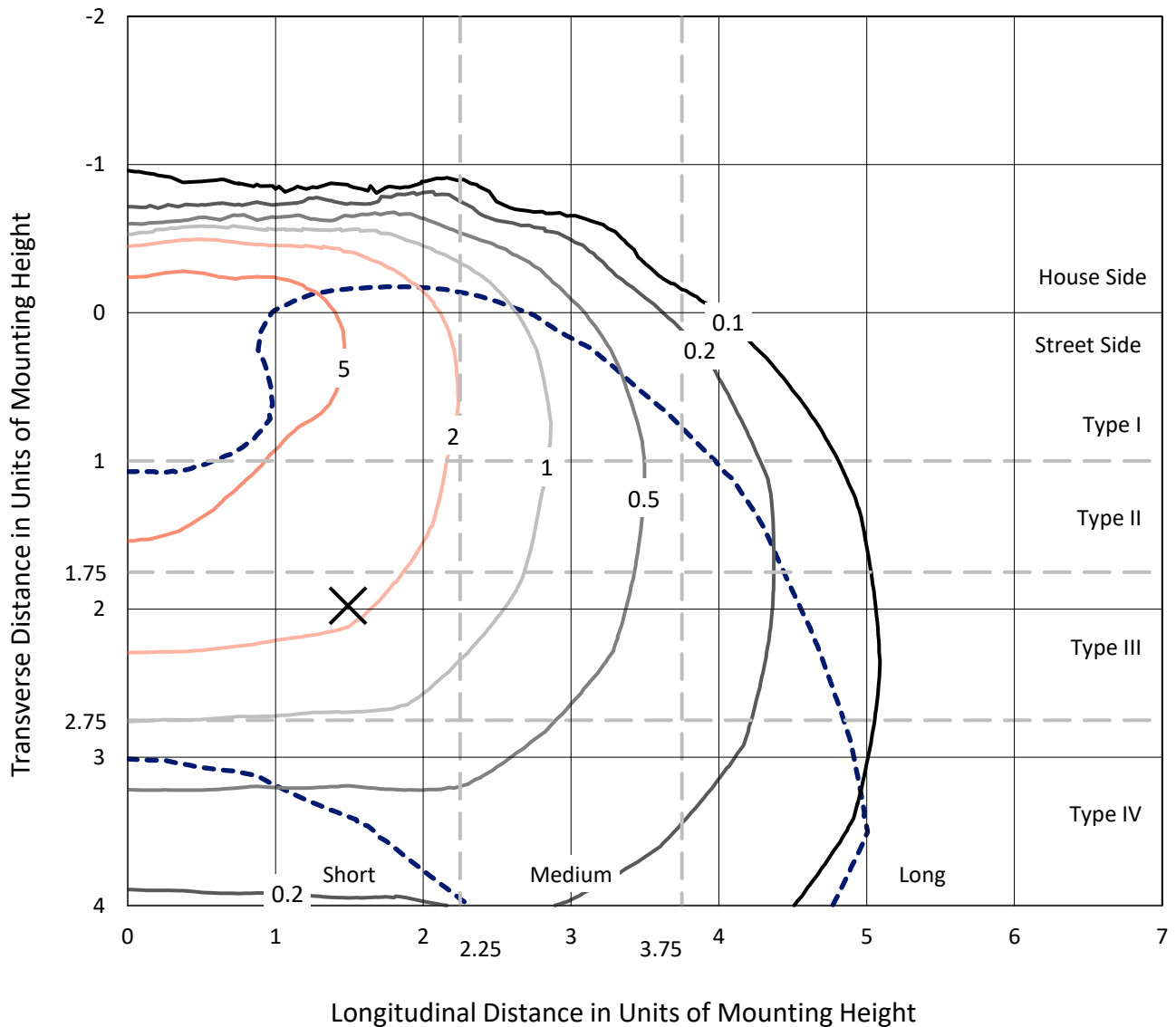
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P285854
 CATALOG NUMBER: PRV-XL-C175-D-UNV-T4-BZ-HSS

Iso-Footcandle Lines of Horizontal Illumination

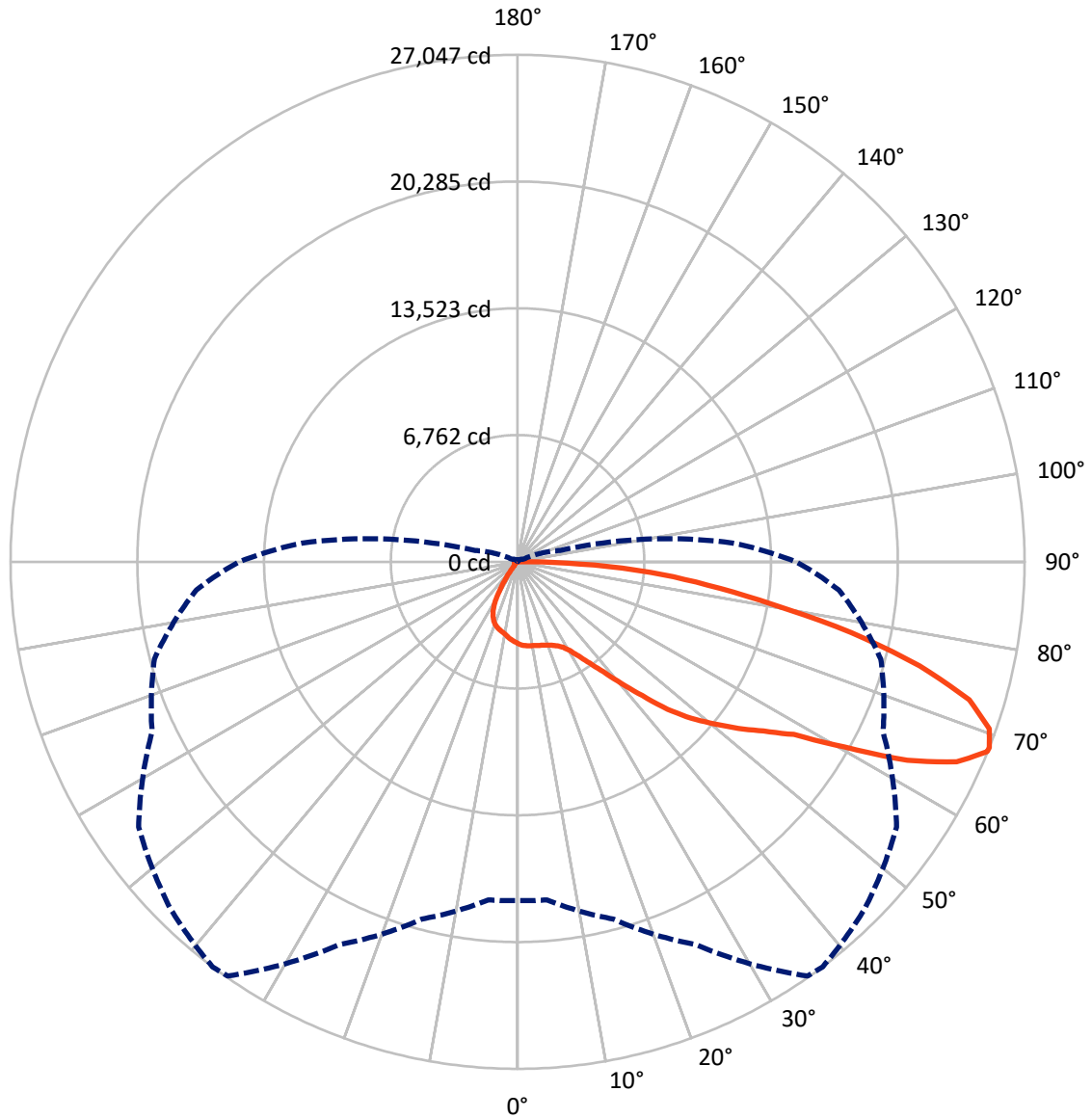
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P285854
CATALOG NUMBER: PRV-XL-C175-D-UNV-T4-BZ-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P285854
 CATALOG NUMBER: PRV-XL-C175-D-UNV-T4-BZ-HSS

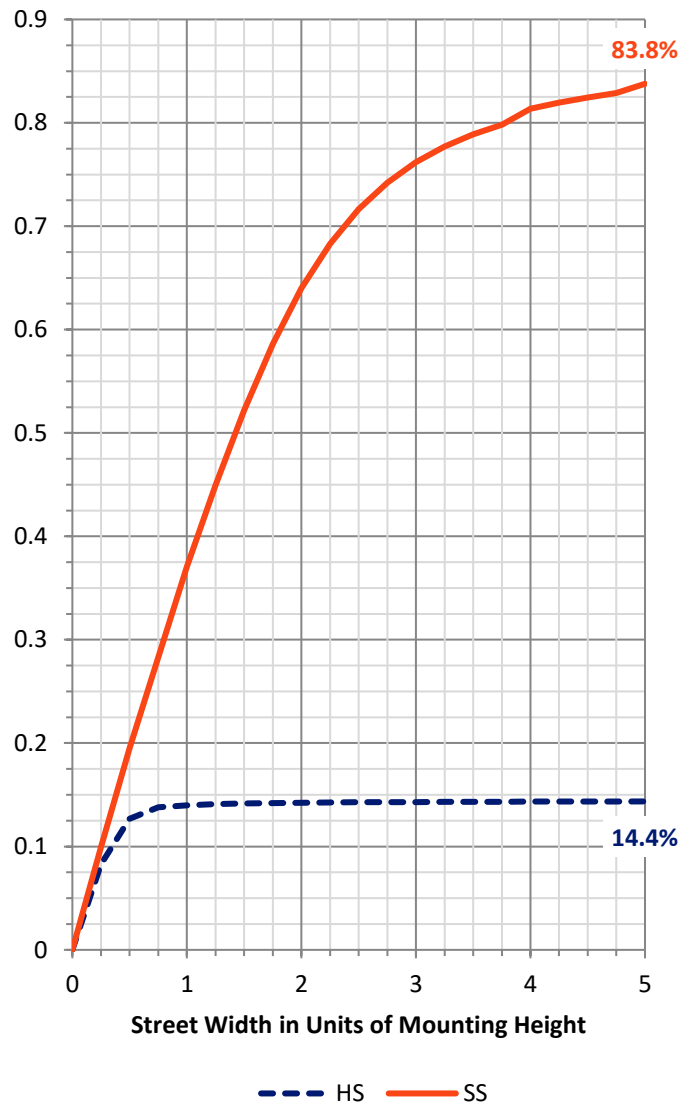
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6400.2	0.0	6400.2
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	37661.8	0.0	37661.8
	% Fixture	85.5	0.0	85.5
Total	Lumens	44062.0	0.0	44062.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.8	0.9
10°-20°	1222.5	2.8
20°-30°	2042.9	4.6
30°-40°	3318.2	7.5
40°-50°	5994.7	13.6
50°-60°	8929.7	20.3
60°-70°	11632.4	26.4
70°-80°	8564.4	19.4
80°-90°	1945.3	4.4
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°	44062.0	100.0
0°-180°	44062.0	100.0

Coefficient of Utilization

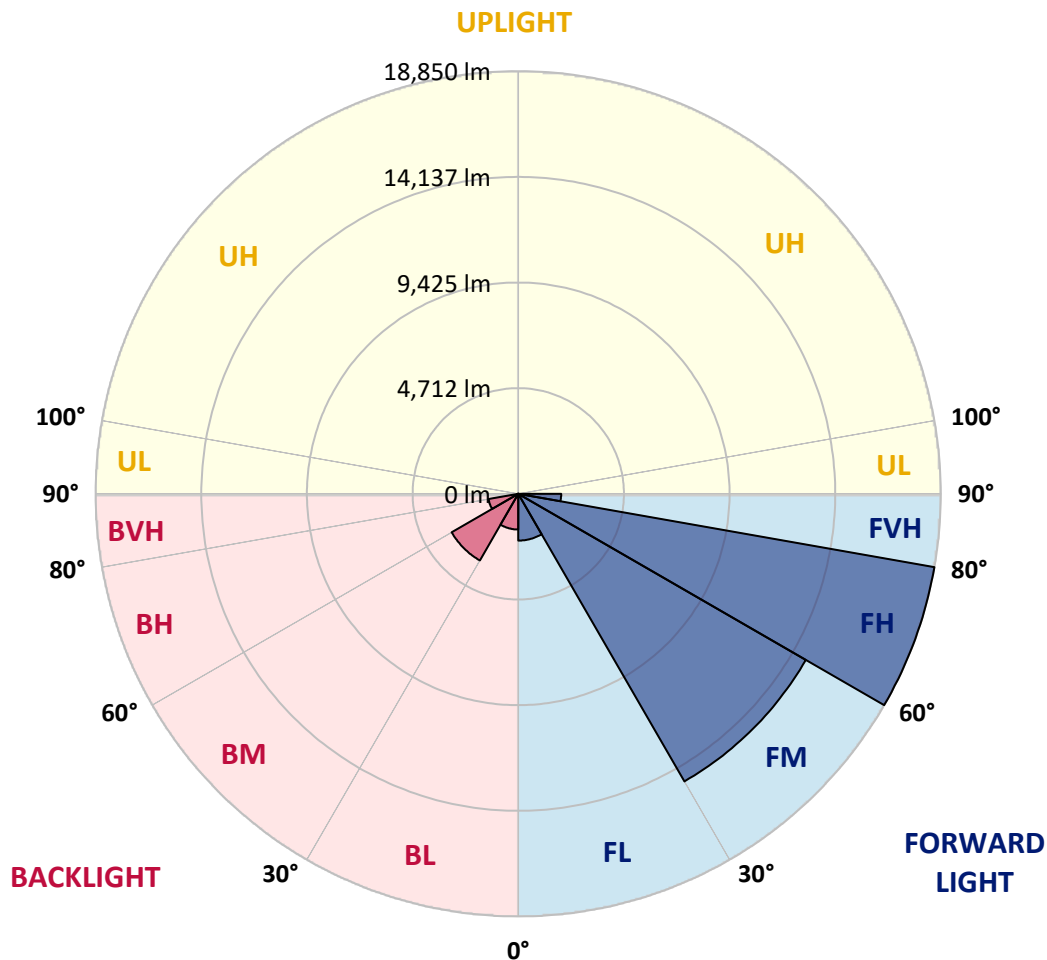


REPORT NUMBER: P285854
 CATALOG NUMBER: PRV-XL-C175-D-UNV-T4-BZ-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2085.6	4.7			
FM (30°-60°)	14812.8	33.6			
FH (60°-80°)	18850.0	42.8			G5
FVH (80°-90°)	1913.4	4.3			G5
BL (0°-30°)	1591.7	3.6	B3/2500		
BM (30°-60°)	3429.8	7.8	B3/5000		
BH (60°-80°)	1346.8	3.1	B3/2500		G3/2500
BVH (80°-90°)	31.9	0.1			G1/100
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: P285854

CATALOG NUMBER: PRV-XL-C175-D-UNV-T4-BZ-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4
2.5°	4455.4	4459.1	4459.1	4453.5	4460.9	4455.4	4442.3	4429.3	4414.4	4354.9	4341.8
5°	4475.8	4485.1	4485.1	4483.3	4494.4	4492.6	4481.4	4470.2	4453.5	4382.8	4358.6
7.5°	4487.0	4496.3	4498.2	4494.4	4516.8	4520.5	4513.0	4513.0	4500.0	4429.3	4393.9
10°	4485.1	4487.0	4492.6	4501.9	4537.2	4546.5	4555.9	4570.7	4570.7	4513.0	4472.1
12.5°	4436.7	4438.6	4457.2	4500.0	4570.7	4585.6	4613.5	4654.5	4675.0	4643.3	4608.0
15°	4403.2	4403.2	4429.3	4496.3	4604.2	4624.7	4684.3	4747.5	4807.1	4803.4	4795.9
17.5°	4433.0	4438.6	4479.5	4537.2	4647.0	4669.4	4747.5	4849.9	4944.8	4985.8	4993.2
20°	4522.4	4527.9	4572.6	4632.2	4727.1	4743.8	4820.1	4942.9	5084.4	5173.7	5225.8
22.5°	4654.5	4658.2	4693.6	4738.2	4831.3	4842.5	4916.9	5049.0	5227.7	5380.3	5471.5
25°	4779.2	4786.6	4818.3	4851.8	4956.0	4965.3	5056.5	5196.1	5404.5	5609.2	5776.7
27.5°	4905.7	4918.8	4957.8	5004.4	5155.1	5158.8	5242.6	5380.3	5627.8	5907.0	6156.4
30°	5186.7	5171.9	5205.4	5266.8	5478.9	5492.0	5575.7	5730.2	5960.9	6275.5	6636.5
32.5°	5665.0	5648.3	5646.4	5737.6	5933.0	5996.3	6087.5	6331.3	6619.8	6932.4	7310.2
35°	6610.4	6584.4	6459.7	6429.9	6545.3	6634.6	6817.0	7174.3	7660.1	8343.1	8773.0
37.5°	8181.2	8147.7	7874.1	7552.1	7386.5	7442.3	7594.9	8090.0	8905.1	10351.2	10777.3
40°	9733.3	9740.7	9409.5	8873.5	8512.4	8523.6	8462.2	9033.5	10246.9	12225.2	12398.3
42.5°	11216.5	11203.5	10797.8	10308.4	9846.8	9755.6	9526.7	10021.8	11503.1	13736.4	13662.0
45°	12532.3	12506.3	12054.0	11780.4	11274.2	11225.9	10859.2	11024.9	12770.5	14938.6	14683.7
47.5°	13788.5	13766.2	13230.2	12971.5	12563.9	12480.2	12135.9	12219.7	13946.7	15884.1	15506.3
50°	15096.8	15141.5	14361.7	14064.0	13689.9	13580.1	13407.0	13457.3	15160.1	16773.6	16207.9
52.5°	16686.2	16461.0	15634.7	15083.8	14784.2	14761.8	14540.4	14646.5	16494.5	17555.3	16833.2
55°	18381.6	18083.8	17270.5	16552.2	15880.3	15919.4	15591.9	15748.2	17693.0	18230.8	17326.4
57.5°	19539.2	19531.7	19315.8	18629.1	17458.5	17376.6	16769.9	16902.1	18742.6	18928.7	17696.7
60°	20646.5	20949.8	21182.5	20875.4	20307.8	20047.2	18350.0	18104.3	19701.1	19559.6	17908.9
62.5°	21390.9	21484.0	22360.5	22619.2	23384.1	23333.8	21508.2	19559.6	20518.1	19969.1	17977.7
65°	20706.0	20782.3	22113.0	23358.0	25630.4	25734.6	24973.4	21962.2	21162.0	20110.5	17836.3
67.5°	18582.6	18638.4	20201.7	22779.3	26879.1	27016.9	26129.1	24469.1	21487.7	20086.3	17354.3
68°	18065.2	18104.3	19727.1	22535.5	26972.2	27046.6	26186.8	24677.5	21513.7	20058.4	17198.0
70°	15845.0	15837.5	17371.0	21087.6	26670.7	26693.0	25853.7	24904.6	21411.4	19794.1	16200.4
72.5°	12251.3	12489.5	13768.0	17761.9	25008.8	25187.4	24750.1	24277.4	20975.9	18725.9	13812.7
75°	8717.2	8903.3	10217.2	13851.8	21588.2	22152.1	22928.1	23101.2	19394.0	16094.4	10176.2
77.5°	6081.9	6279.2	7507.5	10345.6	17451.1	18188.0	19825.8	20082.6	16312.1	12201.0	5192.3
80°	3891.5	4079.4	5207.2	7524.2	13176.2	13805.3	15595.6	15225.2	11415.7	6536.0	910.1
82.5°	2365.4	2460.3	3312.7	5145.8	9603.0	10187.4	10782.9	9143.3	5464.0	924.9	292.2
85°	1343.7	1410.7	2032.3	3323.8	6783.5	7122.2	7256.2	4563.3	1137.1	249.4	167.5
87.5°	357.3	496.9	1098.0	2049.0	3413.2	3325.7	3584.4	1634.0	204.7	107.9	80.0
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: P285854

CATALOG NUMBER: PRV-XL-C175-D-UNV-T4-BZ-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4	4360.4
2.5°	4326.9	4323.2	4310.2	4304.6	4310.2	4304.6	4263.7	4267.4	4267.4	4246.9	4233.9
5°	4336.2	4326.9	4286.0	4278.6	4256.2	4220.9	4153.9	4139.0	4125.9	4092.4	4086.9
7.5°	4362.3	4349.3	4284.1	4254.4	4192.9	4129.7	4038.5	3984.5	3958.5	3917.5	3923.1
10°	4438.6	4410.7	4317.6	4259.9	4144.6	4040.3	3908.2	3826.3	3777.9	3716.5	3737.0
12.5°	4576.3	4533.5	4418.1	4317.6	4140.8	3986.4	3798.4	3647.7	3571.4	3500.6	3521.1
15°	4764.3	4717.8	4576.3	4423.7	4189.2	3964.0	3705.4	3467.1	3329.4	3238.2	3243.8
17.5°	4974.6	4933.6	4771.7	4568.9	4263.7	3949.1	3599.3	3279.2	3027.9	2897.7	2893.9
20°	5197.9	5173.7	4996.9	4723.3	4340.0	3915.6	3463.4	3039.1	2692.9	2473.3	2454.7
22.5°	5454.7	5443.6	5237.0	4876.0	4375.3	3839.3	3281.0	2741.3	2281.6	1983.9	1965.3
25°	5791.6	5774.8	5475.2	4982.0	4360.4	3710.9	3026.1	2384.0	1760.6	1418.1	1403.2
27.5°	6197.3	6113.5	5685.5	5036.0	4287.9	3508.1	2692.9	1853.6	1183.6	872.8	865.4
30°	6653.3	6489.5	5869.8	5041.6	4153.9	3225.2	2203.5	1198.5	688.6	491.3	487.6
32.5°	7245.1	6956.6	6068.9	5009.9	3949.1	2843.7	1574.4	686.7	346.2	264.3	264.3
35°	8410.1	7781.0	6323.8	4928.1	3664.4	2298.4	971.5	333.1	202.9	199.1	201.0
37.5°	10140.9	9115.4	6740.7	4795.9	3284.8	1656.3	498.8	186.1	186.1	193.5	195.4
40°	11668.8	10511.2	7341.8	4609.8	2780.4	1047.8	238.2	174.9	186.1	188.0	191.7
42.5°	12878.5	11631.6	7976.5	4328.8	2188.6	558.3	199.1	169.4	173.1	171.2	178.7
45°	13846.2	12515.6	8465.9	3960.3	1544.7	286.6	206.6	163.8	150.7	150.7	154.5
47.5°	14599.9	13187.4	8773.0	3560.2	939.8	230.8	206.6	145.2	135.9	137.7	139.6
50°	15262.5	13689.9	8879.1	3067.0	472.7	234.5	199.1	137.7	121.0	122.8	126.6
52.5°	15738.9	14043.5	8799.0	2454.7	260.5	238.2	189.8	126.6	104.2	113.5	117.2
55°	16098.1	14211.0	8534.8	1745.7	236.4	234.5	184.2	113.5	93.1	111.7	117.2
57.5°	16300.9	14266.8	8086.3	1137.1	258.7	206.6	169.4	104.2	87.5	109.8	117.2
60°	16384.7	14164.5	7438.6	666.3	264.3	182.4	158.2	96.8	80.0	91.2	94.9
62.5°	16297.2	13902.0	6485.8	420.6	241.9	173.1	150.7	91.2	67.0	65.1	63.3
65°	15949.2	13252.5	4911.3	336.9	225.2	173.1	141.4	80.0	52.1	39.1	35.4
67.5°	15117.3	11912.6	2778.5	333.1	219.6	169.4	128.4	72.6	40.9	20.5	16.7
68°	14866.1	11527.3	2341.2	338.7	225.2	169.4	126.6	68.9	39.1	16.7	13.0
70°	13334.4	9448.6	807.7	325.7	256.8	178.7	121.0	59.6	31.6	7.4	5.6
72.5°	10153.9	5804.6	357.3	262.4	282.9	186.1	121.0	57.7	26.1	1.9	0.0
75°	5903.3	1429.3	305.2	176.8	236.4	221.5	139.6	67.0	24.2	0.0	0.0
77.5°	1431.1	329.4	266.1	102.4	186.1	241.9	165.6	74.4	26.1	0.0	0.0
80°	340.6	256.8	258.7	65.1	148.9	215.9	143.3	80.0	37.2	0.0	0.0
82.5°	225.2	202.9	230.8	35.4	85.6	160.1	100.5	50.2	46.5	0.0	0.0
85°	152.6	186.1	132.1	20.5	33.5	54.0	40.9	7.4	9.3	0.0	0.0
87.5°	85.6	54.0	22.3	9.3	7.4	5.6	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)