

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: P285773

Luminaire Tested: **PRV-XL-C150-D-UNV-T2-BZ-HSS**

Issue Date: 2/13/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P285773  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-6)  
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-T2-BZ-HSS  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, BRONZE  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38071 lumens  
Efficiency: N/A  
Efficacy: 133.6 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

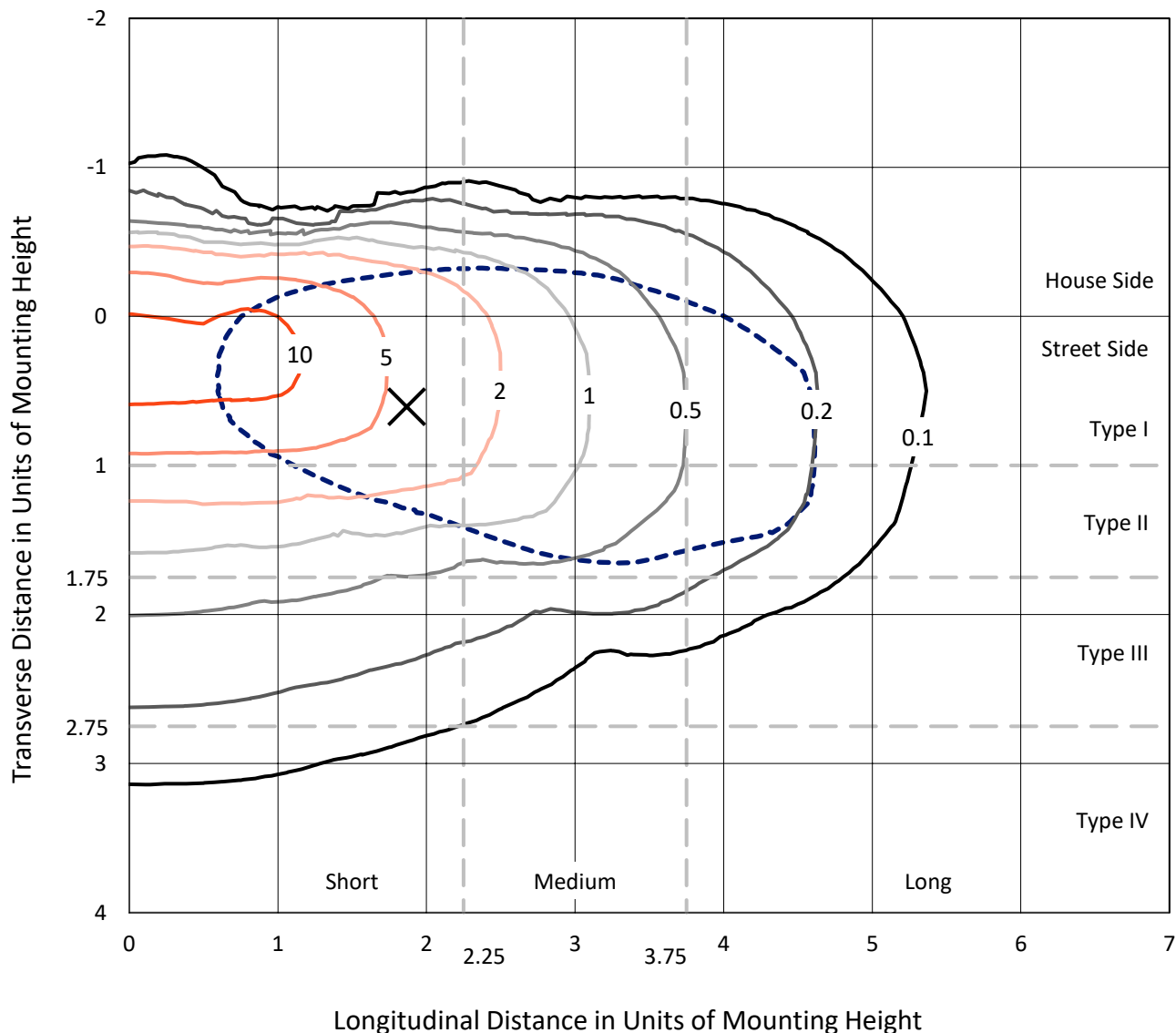
Input Watts (W): 285  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

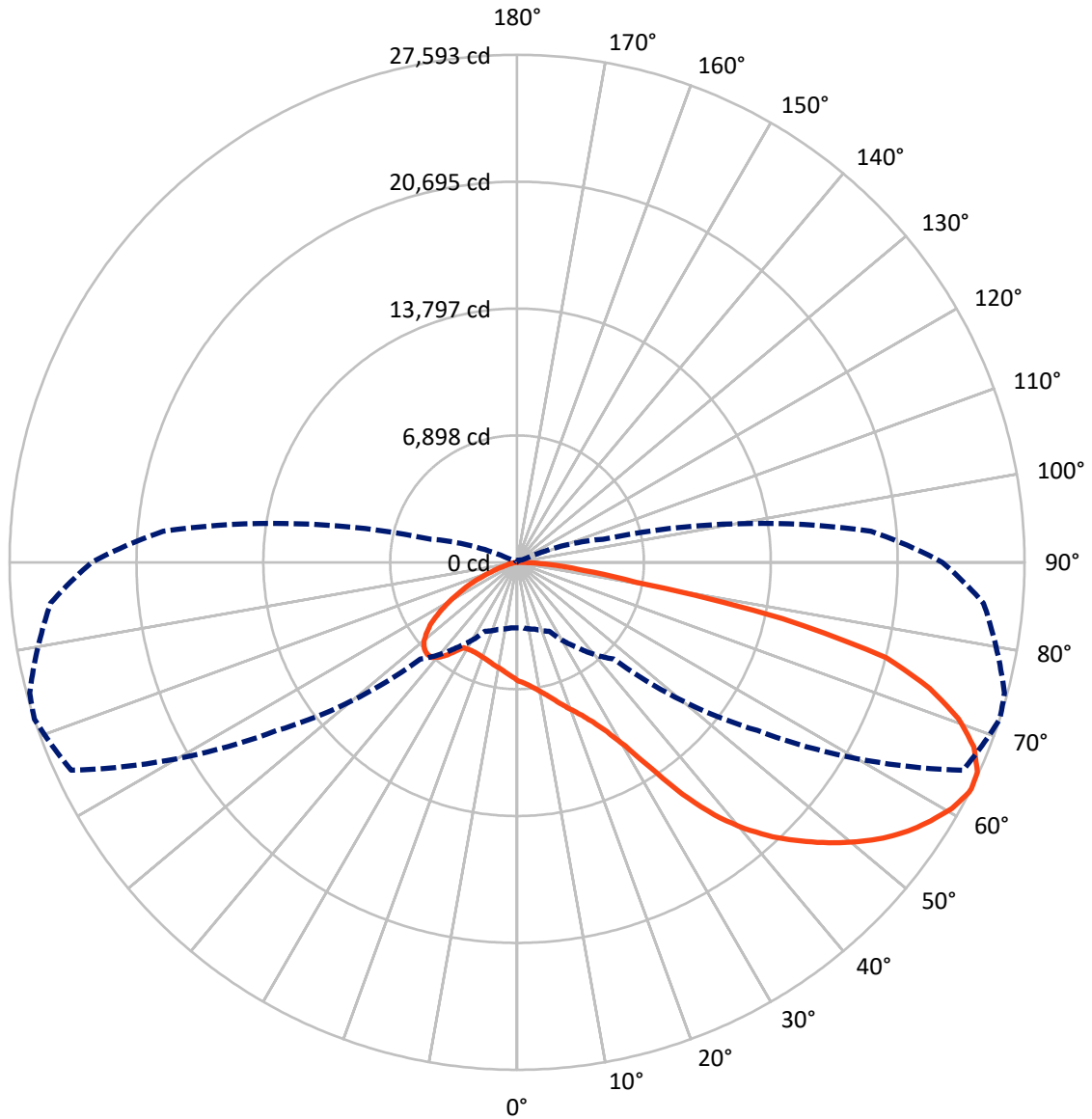
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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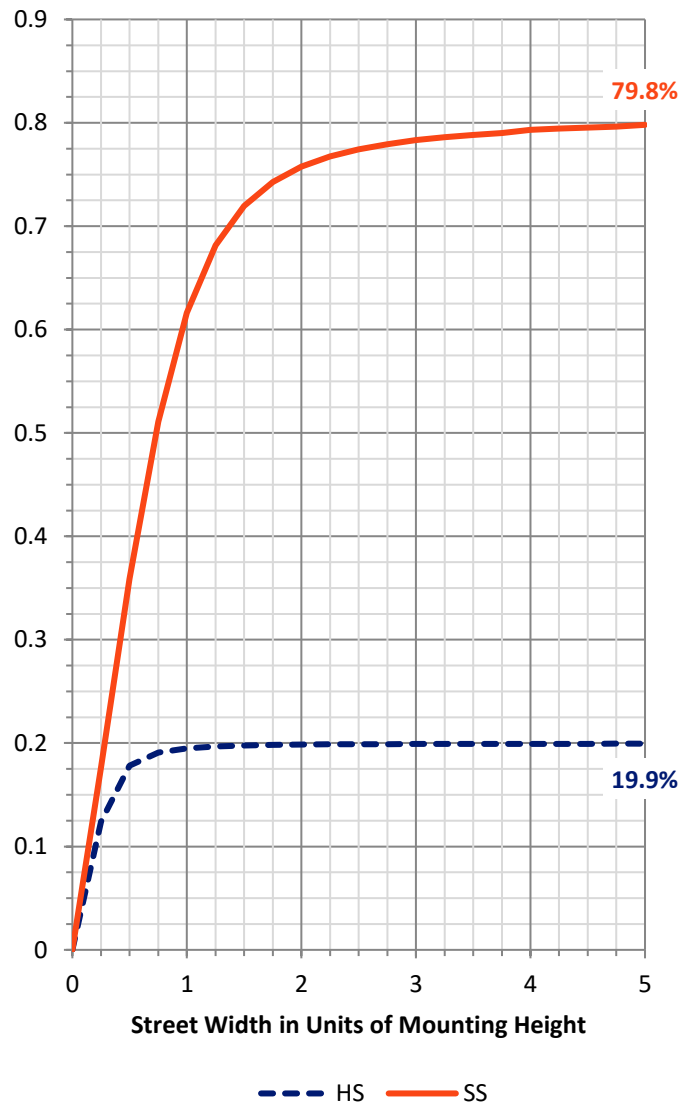
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7680.7	0.0	7680.7
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	30390.3	0.0	30390.3
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	38071.0	0.0	38071.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	615.3	1.6
10°-20°	1865.7	4.9
20°-30°	3148.1	8.3
30°-40°	4818.0	12.7
40°-50°	6712.1	17.6
50°-60°	7779.4	20.4
60°-70°	7626.6	20.0
70°-80°	4761.5	12.5
80°-90°	744.2	2.0
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°	38071.0	100.0
0°-180°	38071.0	100.0

**Coefficient of Utilization**



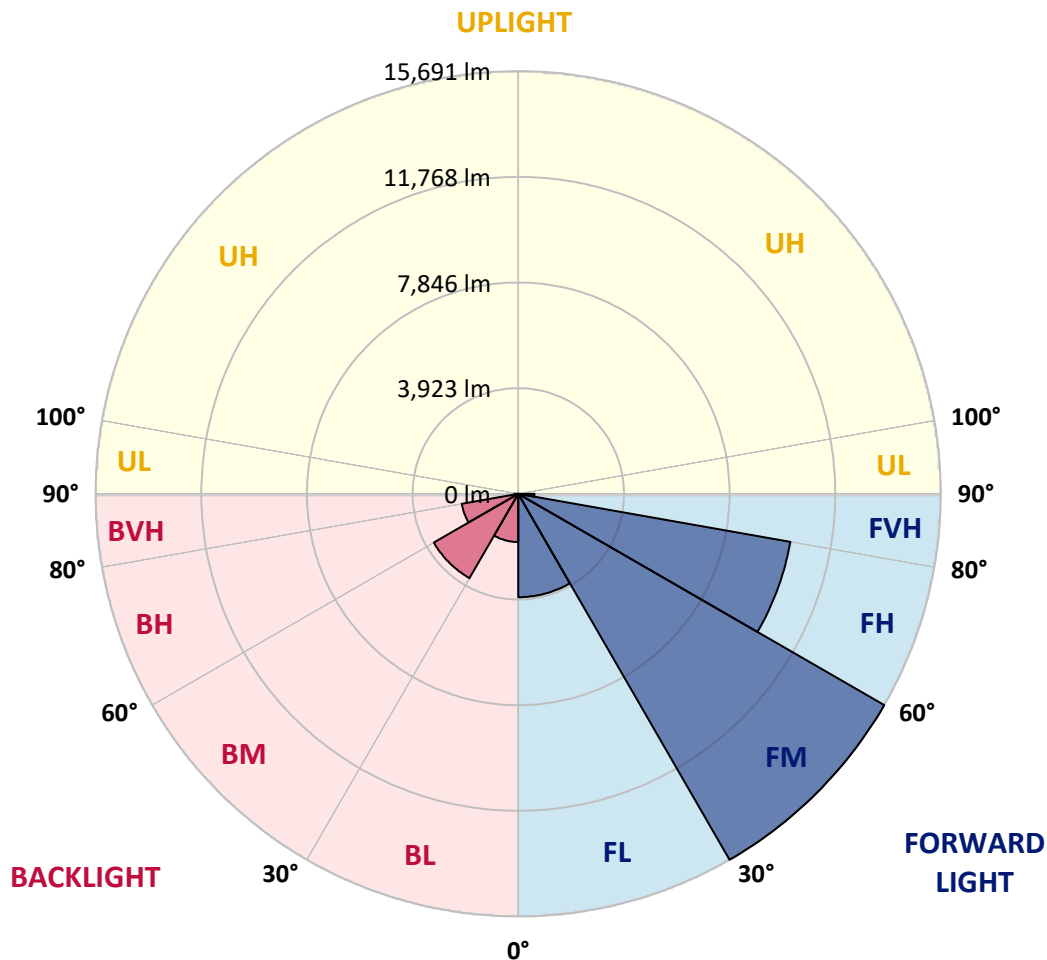
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3838.6	10.1			
FM (30°-60°)	15691.2	41.2			
FH (60°-80°)	10258.9	26.9			G4/12000
FVH (80°-90°)	601.6	1.6			G4/750
BL (0°-30°)	1790.6	4.7	B3/2500		
BM (30°-60°)	3618.4	9.5	B3/5000		
BH (60°-80°)	2129.1	5.6	B3/2500		G3/2500
BVH (80°-90°)	142.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6444.1	6444.1	6444.1	6444.1	6444.1	6444.1	6444.1	6444.1	6444.1	6444.1	6444.1
2.5°	7001.4	6982.5	6962.0	6936.8	6916.4	6853.4	6796.7	6688.1	6554.3	6548.0	6439.3
5°	7478.4	7448.5	7424.9	7380.8	7332.0	7220.2	7089.6	6906.9	6716.4	6686.5	6494.4
7.5°	7876.8	7845.3	7818.5	7761.8	7706.7	7569.8	7401.3	7155.7	6919.5	6859.7	6571.6
10°	8224.7	8193.2	8180.6	8119.2	8079.9	7930.3	7720.9	7454.8	7158.8	7067.5	6688.1
12.5°	8591.5	8558.5	8536.4	8471.9	8424.7	8265.6	8079.9	7782.3	7447.0	7349.3	6855.0
15°	8953.7	8923.7	8873.4	8838.7	8783.6	8618.3	8443.6	8133.4	7799.6	7676.8	7078.5
17.5°	9287.4	9262.2	9224.5	9194.5	9148.9	8977.3	8786.8	8523.8	8182.2	8031.1	7335.2
20°	9533.0	9534.6	9518.9	9503.1	9518.9	9378.8	9224.5	8931.6	8580.5	8404.2	7601.2
22.5°	9744.0	9756.6	9777.1	9800.7	9901.5	9832.2	9646.4	9408.7	9032.4	8824.6	7942.9
25°	9847.9	9857.4	9948.7	10103.0	10329.7	10328.1	10154.9	9983.3	9625.9	9410.2	8418.4
27.5°	9909.3	9921.9	10049.5	10359.6	10759.5	10820.9	10750.1	10674.5	10425.7	10210.0	9046.6
30°	9906.2	9923.5	10120.3	10509.2	11098.0	11409.7	11416.0	11694.7	11576.6	11428.6	10106.1
32.5°	9670.0	9676.3	9950.3	10523.3	11353.1	11932.4	12192.2	12922.7	13288.0	13314.8	12063.1
35°	9109.5	9189.8	9599.2	10395.8	11537.3	12444.1	13116.4	14492.4	15462.3	15507.9	14028.0
37.5°	8706.5	8755.3	9221.3	10167.5	11622.3	12977.9	14177.6	16377.0	17438.2	17326.4	15654.3
40°	8265.6	8325.5	8804.1	9862.1	11568.8	13436.0	15259.2	18186.0	19036.2	18861.4	17039.8
42.5°	7777.6	7828.0	8278.2	9410.2	11398.7	13766.6	16303.0	19749.4	20402.8	20188.6	18299.4
45°	7297.4	7330.4	7757.1	8800.9	11071.2	13968.2	17255.5	21156.9	21615.1	21434.0	19459.7
47.5°	6688.1	6727.4	7250.2	8220.0	10471.4	13961.9	18080.5	22408.6	22791.1	22589.6	20494.1
50°	5157.8	5183.0	6337.0	7692.6	9696.8	13684.8	18787.4	23542.1	23902.7	23672.8	21517.4
52.5°	4672.8	4693.3	5050.7	7036.0	8851.3	13110.1	19251.9	24587.5	24913.4	24667.8	22482.6
55°	4441.4	4455.6	4628.8	5726.1	8109.8	12124.5	19456.5	25555.8	25803.0	25485.0	23266.6
57.5°	4113.9	4142.3	4403.6	4904.3	7384.0	10611.5	19163.7	26338.3	26524.1	26212.3	24030.2
60°	3865.2	3882.5	4102.9	4499.7	6507.0	8919.0	18118.3	26867.3	27169.6	26887.8	24748.1
62.5°	3622.7	3629.0	3813.2	4198.9	5745.0	7654.8	16334.5	26834.2	27566.3	27391.6	25374.7
63°	3570.8	3577.1	3764.4	4143.8	5633.2	7445.4	15944.0	26753.9	27593.1	27434.1	25458.2
65°	3350.3	3359.8	3542.4	3891.9	5148.3	6782.6	14215.3	26259.6	27503.3	27498.6	25570.0
67.5°	3021.3	3038.6	3194.5	3493.6	4487.1	5945.0	11549.9	25732.1	26782.3	26838.9	24944.9
70°	2623.0	2635.6	2811.9	3063.8	3775.4	5047.6	8845.0	24045.9	25456.6	25299.2	23496.5
72.5°	2201.0	2223.1	2391.5	2586.8	3131.5	4164.3	6404.7	21169.5	23466.6	23583.1	21067.2
75°	1920.8	1933.4	2078.2	2216.8	2600.9	3314.1	4284.0	15200.9	20749.1	20779.0	18173.4
77.5°	1593.3	1609.0	1758.6	1889.3	2109.7	2495.4	2955.2	7900.4	14753.8	15591.4	14111.4
80°	878.5	1020.2	1267.4	1363.4	1527.2	1516.2	1879.8	4175.3	6529.1	8163.3	9320.5
82.5°	148.0	190.5	511.7	667.5	727.4	639.2	913.2	2298.6	3640.0	4176.9	5016.1
85°	63.0	91.3	267.6	292.8	182.6	177.9	360.5	1202.8	2082.9	2399.4	2585.2
87.5°	7.9	14.2	69.3	91.3	42.5	58.3	72.4	376.3	725.8	834.4	943.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6444.1	6444.1	6444.1	6444.1	6444.1	6444.1	6444.1	6444.1	6444.1	6444.1	6444.1
2.5°	6387.4	6351.2	6267.7	6203.2	6155.9	6091.4	6022.1	5971.7	5918.2	5894.6	5904.0
5°	6396.8	6316.5	6138.6	5998.5	5842.6	5727.7	5578.1	5502.6	5420.7	5379.8	5378.2
7.5°	6422.0	6296.1	6015.8	5795.4	5573.4	5393.9	5198.7	5064.9	4992.5	4938.9	4932.6
10°	6485.0	6305.5	5922.9	5623.8	5337.2	5096.4	4858.6	4685.4	4586.3	4531.1	4539.0
12.5°	6598.3	6340.1	5856.8	5483.7	5115.3	4828.7	4524.9	4321.8	4200.5	4132.8	4151.7
15°	6754.2	6415.7	5789.1	5310.5	4877.5	4540.6	4216.3	3986.4	3851.0	3792.8	3811.6
17.5°	6929.0	6525.9	5741.9	5116.8	4627.2	4246.2	3945.5	3720.3	3493.6	3448.0	3448.0
20°	7124.2	6648.7	5734.0	4932.6	4380.0	3965.9	3619.6	3430.6	3101.6	2989.8	2966.2
22.5°	7382.4	6821.9	5724.6	4764.2	4117.1	3676.2	3251.2	2953.6	2526.9	2334.8	2316.0
25°	7738.2	7061.2	5740.3	4625.6	3877.8	3350.3	2744.2	2267.1	1908.2	1667.3	1654.7
27.5°	8215.3	7380.8	5790.7	4496.5	3638.5	2948.9	2125.5	1616.9	1339.8	1124.1	1059.6
30°	9117.4	7886.2	5878.8	4381.6	3359.8	2410.4	1511.4	1094.2	895.8	746.3	713.2
32.5°	10841.4	9155.2	6000.1	4254.1	3016.6	1775.9	1009.2	730.5	569.9	483.3	502.2
35°	12560.6	10737.5	6577.9	4066.7	2564.7	1182.4	673.8	466.0	359.0	355.8	376.3
37.5°	14109.9	12137.1	7358.8	3857.3	1960.1	795.1	404.6	310.2	300.7	327.5	368.4
40°	15394.6	13273.8	8018.5	3564.5	1346.1	486.5	264.5	281.8	267.6	278.7	273.9
42.5°	16588.0	14297.2	8553.8	3232.3	793.5	280.2	229.9	261.4	240.9	231.4	212.5
45°	17661.7	15262.3	8823.0	2709.6	462.9	223.6	209.4	247.2	233.0	215.7	187.4
47.5°	18639.4	16109.3	8999.3	1994.8	266.1	195.2	195.2	222.0	218.8	198.4	182.6
50°	19653.3	16937.5	8982.0	1224.9	225.1	179.5	185.8	185.8	196.8	154.3	140.1
52.5°	20549.2	17682.2	8623.0	694.3	207.8	170.0	168.5	151.1	160.6	119.7	111.8
55°	21276.6	18261.6	8020.0	458.2	196.8	168.5	148.0	130.7	122.8	86.6	89.7
57.5°	21991.3	18812.6	7097.4	362.1	204.7	162.2	135.4	111.8	96.0	67.7	64.6
60°	22680.9	19251.9	6119.7	325.9	215.7	162.2	111.8	94.5	64.6	52.0	45.7
62.5°	23098.2	19347.9	5038.1	294.4	222.0	151.1	100.8	77.1	47.2	34.6	31.5
63°	23128.1	19319.6	4846.0	289.7	223.6	151.1	100.8	74.0	45.7	31.5	28.3
65°	23082.4	18962.2	4096.6	273.9	228.3	144.8	96.0	59.8	36.2	22.0	18.9
67.5°	22318.8	17767.2	3037.0	256.6	218.8	143.3	88.2	48.8	28.3	14.2	11.0
70°	20450.0	15912.5	2029.4	228.3	211.0	140.1	103.9	40.9	23.6	7.9	6.3
72.5°	17839.6	13911.5	1358.7	187.4	184.2	114.9	63.0	34.6	17.3	3.1	0.0
75°	15078.1	11195.6	840.7	143.3	149.6	97.6	50.4	29.9	14.2	0.0	0.0
77.5°	11737.2	8270.4	598.3	91.3	105.5	83.4	42.5	25.2	11.0	0.0	0.0
80°	8007.4	5604.9	433.0	50.4	55.1	55.1	34.6	18.9	6.3	0.0	0.0
82.5°	4644.5	3140.9	220.4	25.2	23.6	28.3	15.7	9.4	1.6	0.0	0.0
85°	2265.6	1391.8	37.8	14.2	12.6	12.6	6.3	0.0	0.0	0.0	0.0
87.5°	768.3	360.5	4.7	6.3	4.7	1.6	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)