

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: P285859

Luminaire Tested: **PRV-XL-C175-D-UNV-T4-BZ-7050-HSS**

Issue Date: 2/13/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P285859  
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-7050-HSS  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K 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: 44861 lumens  
Efficiency: N/A  
Efficacy: 129.7 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

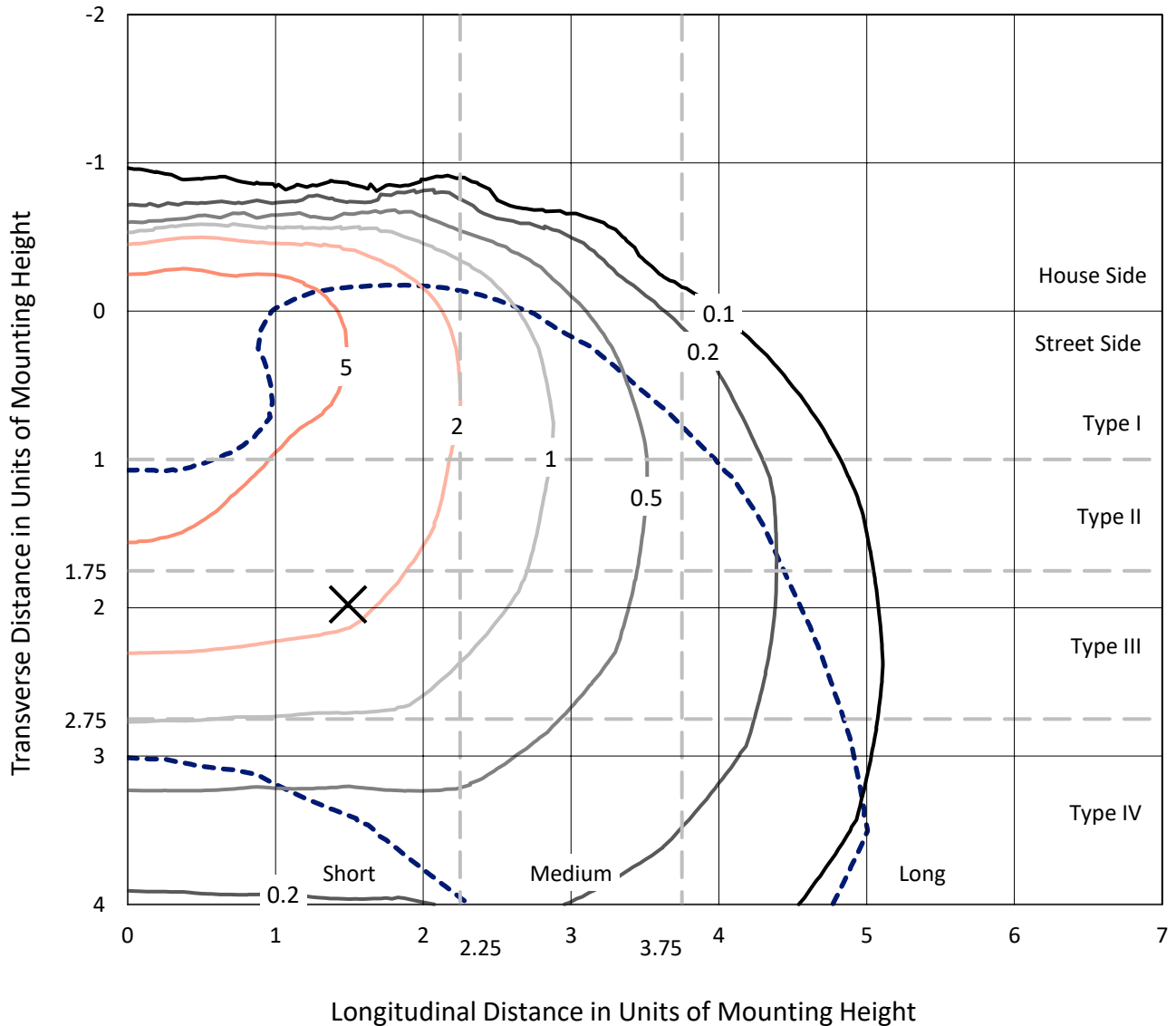
Input Watts (W): 346  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

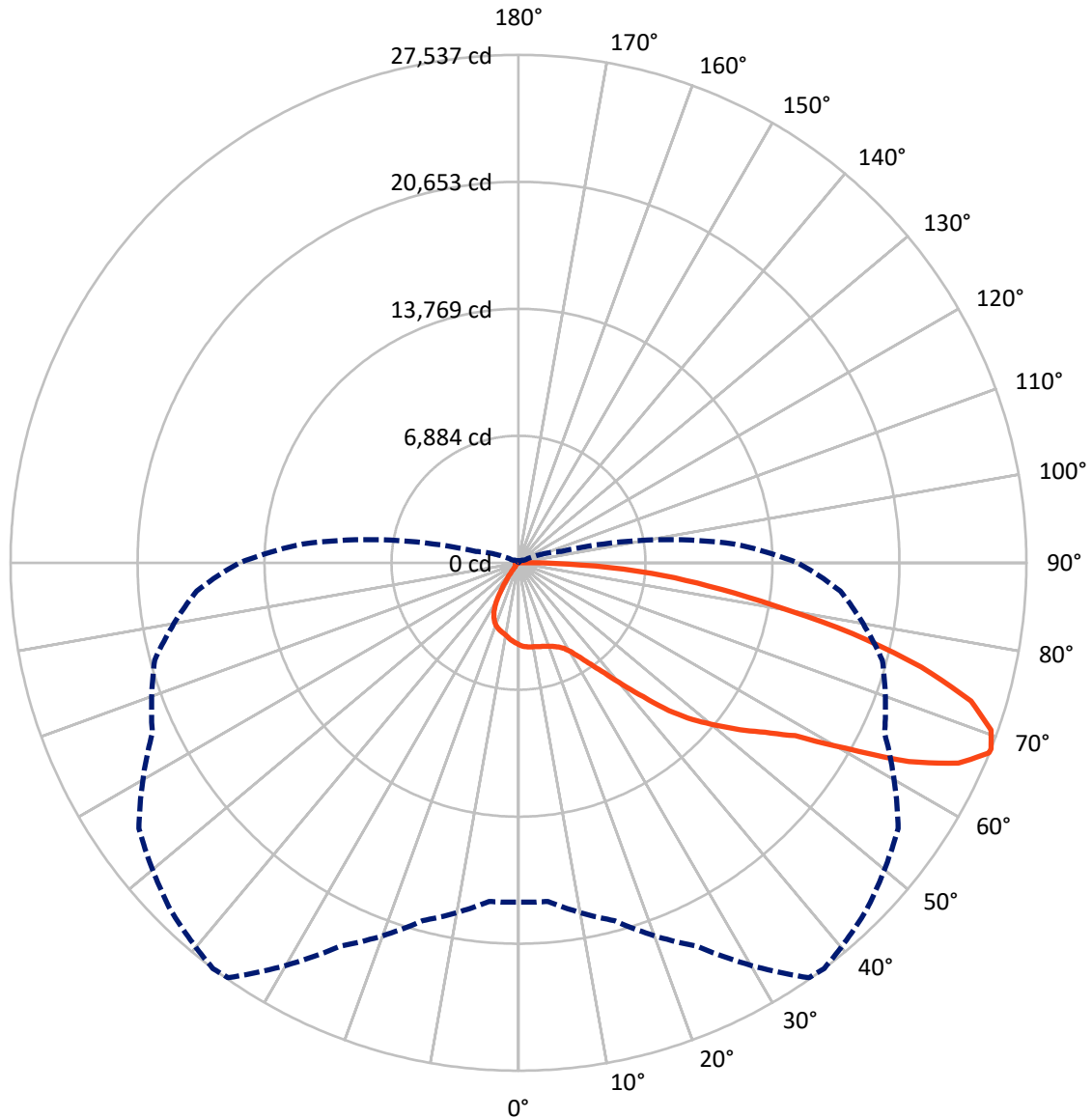
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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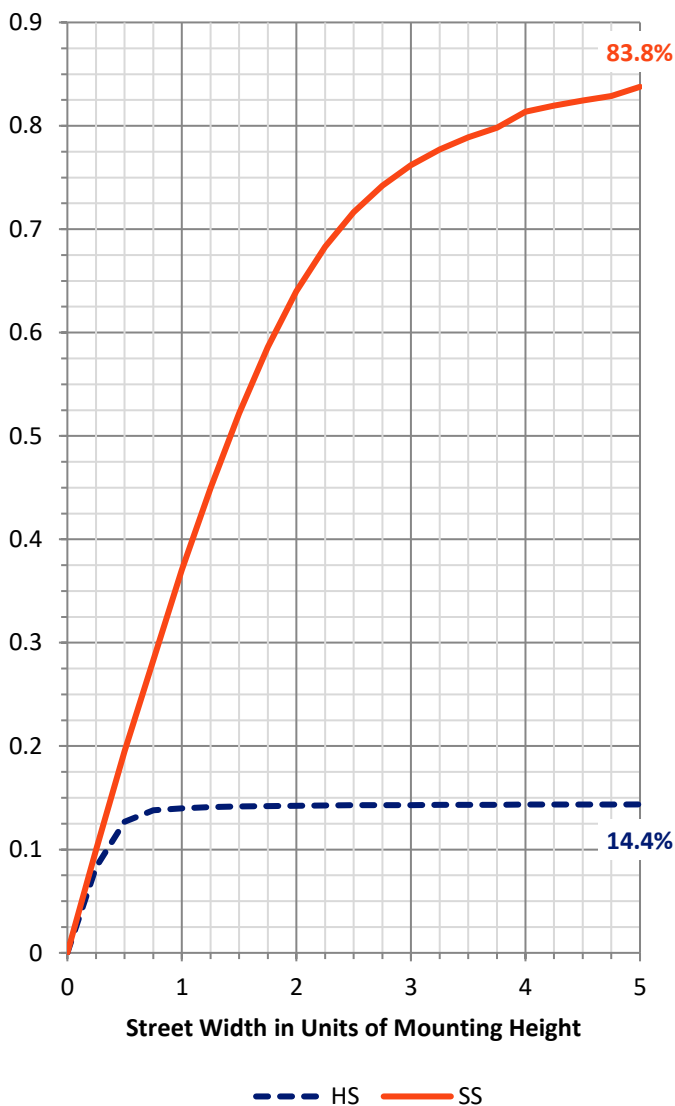
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6516.3	0.0	6516.3
	% Fixture	14.5	0.0	14.5
<b>Street Side</b>	Lumens	38344.7	0.0	38344.7
	% Fixture	85.5	0.0	85.5
<b>Total</b>	Lumens	44861.0	0.0	44861.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	419.3	0.9
10°-20°	1244.7	2.8
20°-30°	2080.0	4.6
30°-40°	3378.4	7.5
40°-50°	6103.4	13.6
50°-60°	9091.6	20.3
60°-70°	11843.3	26.4
70°-80°	8719.7	19.4
80°-90°	1980.6	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°	44861.0	100.0
0°-180°	44861.0	100.0

**Coefficient of Utilization**



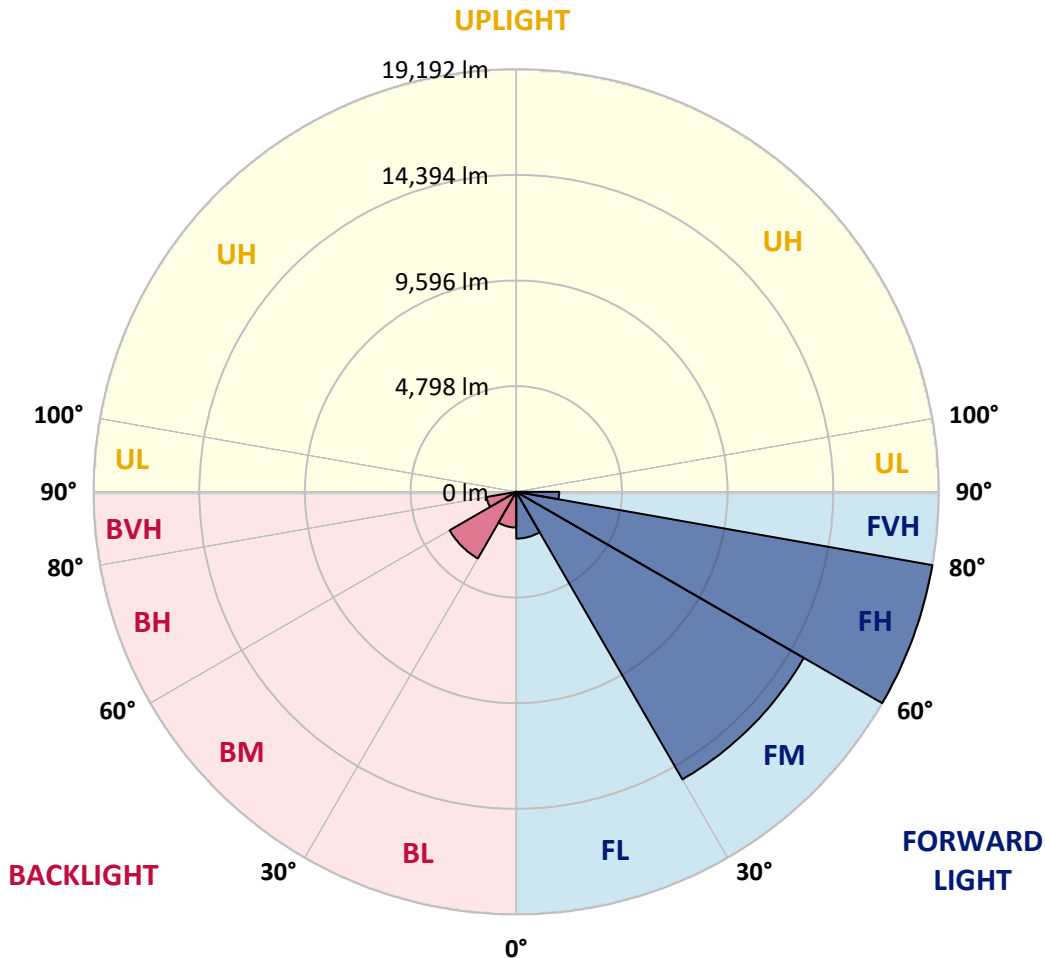
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2123.4	4.7			
FM (30°-60°)	15081.4	33.6			
FH (60°-80°)	19191.8	42.8			G5
FVH (80°-90°)	1948.1	4.3			G5
BL (0°-30°)	1620.6	3.6	B3/2500		
BM (30°-60°)	3492.0	7.8	B3/5000		
BH (60°-80°)	1371.2	3.1	B3/2500		G3/2500
BVH (80°-90°)	32.5	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5
2.5°	4536.1	4539.9	4539.9	4534.2	4541.8	4536.1	4522.9	4509.6	4494.5	4433.8	4420.6
5°	4557.0	4566.5	4566.5	4564.6	4575.9	4574.0	4562.7	4551.3	4534.2	4462.2	4437.6
7.5°	4568.4	4577.8	4579.7	4575.9	4598.7	4602.5	4594.9	4594.9	4581.6	4509.6	4473.6
10°	4566.5	4568.4	4574.0	4583.5	4619.5	4629.0	4638.5	4653.6	4653.6	4594.9	4553.2
12.5°	4517.2	4519.1	4538.0	4581.6	4653.6	4668.8	4697.2	4738.9	4759.7	4727.5	4691.5
15°	4483.1	4483.1	4509.6	4577.8	4687.7	4708.6	4769.2	4833.6	4894.3	4890.5	4882.9
17.5°	4513.4	4519.1	4560.8	4619.5	4731.3	4754.0	4833.6	4937.8	5034.5	5076.2	5083.7
20°	4604.4	4610.0	4655.5	4716.2	4812.8	4829.8	4907.5	5032.6	5176.6	5267.5	5320.6
22.5°	4738.9	4742.7	4778.7	4824.2	4918.9	4930.3	5006.1	5140.6	5322.5	5477.9	5570.7
25°	4865.8	4873.4	4905.6	4939.7	5045.8	5055.3	5148.2	5290.3	5502.5	5710.9	5881.5
27.5°	4994.7	5007.9	5047.7	5095.1	5248.6	5252.4	5337.6	5477.9	5729.9	6014.1	6268.0
30°	5280.8	5265.6	5299.7	5362.3	5578.3	5591.5	5676.8	5834.1	6069.0	6389.3	6756.8
32.5°	5767.8	5750.7	5748.8	5841.7	6040.6	6105.0	6197.9	6446.1	6739.8	7058.1	7442.8
35°	6730.3	6703.8	6576.8	6546.5	6664.0	6755.0	6940.6	7304.4	7799.0	8494.4	8932.1
37.5°	8329.5	8295.4	8016.9	7689.1	7520.5	7577.3	7732.7	8236.7	9066.6	10538.9	10972.8
40°	9909.8	9917.4	9580.1	9034.4	8666.8	8678.2	8615.6	9197.3	10432.8	12446.9	12623.1
42.5°	11419.9	11406.7	10993.6	10495.3	10025.4	9932.5	9699.5	10203.5	11711.7	13985.5	13909.7
45°	12759.6	12733.0	12272.6	11994.1	11478.7	11429.4	11056.1	11224.8	13002.1	15209.5	14950.0
47.5°	14038.6	14015.8	13470.1	13206.7	12791.8	12706.5	12356.0	12441.2	14199.6	16172.1	15787.5
50°	15370.6	15416.1	14622.2	14319.0	13938.1	13826.3	13650.1	13701.3	15435.0	17077.8	16501.8
52.5°	16988.8	16759.5	15918.2	15357.3	15052.3	15029.5	14804.1	14912.1	16793.6	17873.6	17138.4
55°	18714.9	18411.7	17583.7	16852.3	16168.3	16208.1	15874.6	16033.8	18013.8	18561.4	17640.6
57.5°	19893.5	19885.9	19666.1	18966.9	17775.1	17691.7	17074.0	17208.5	19082.5	19272.0	18017.6
60°	21020.9	21329.7	21566.6	21253.9	20676.0	20410.8	18682.7	18432.6	20058.3	19914.3	18233.6
62.5°	21778.8	21873.5	22766.0	23029.4	23808.1	23757.0	21898.2	19914.3	20890.1	20331.2	18303.7
65°	21081.5	21159.2	22514.0	23781.6	26095.1	26201.3	25426.3	22360.5	21545.7	20475.2	18159.7
67.5°	18919.6	18976.4	20568.0	23192.3	27366.6	27506.8	26603.0	24912.8	21877.3	20450.5	17669.0
68°	18392.8	18432.6	20084.9	22944.1	27461.3	27537.1	26661.7	25125.0	21903.9	20422.1	17509.8
70°	16132.3	16124.7	17686.0	21469.9	27154.3	27177.1	26322.5	25356.2	21799.6	20153.1	16494.2
72.5°	12473.5	12716.0	14017.7	18083.9	25462.3	25644.2	25198.9	24717.6	21356.3	19065.5	14063.2
75°	8875.2	9064.7	10402.4	14103.0	21979.6	22553.8	23343.9	23520.1	19745.7	16386.2	10360.8
77.5°	6192.2	6393.0	7643.6	10533.2	17767.5	18517.9	20185.3	20446.8	16607.9	12422.3	5286.5
80°	3962.0	4153.4	5301.6	7660.7	13415.2	14055.6	15878.4	15501.3	11622.7	6654.5	926.6
82.5°	2408.3	2504.9	3372.7	5239.1	9777.2	10372.1	10978.5	9309.1	5563.1	941.7	297.5
85°	1368.0	1436.3	2069.1	3384.1	6906.5	7251.4	7387.8	4646.0	1157.7	253.9	170.5
87.5°	363.8	505.9	1117.9	2086.2	3475.1	3386.0	3649.4	1663.6	208.4	109.9	81.5
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°	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5
2.5°	4405.4	4401.6	4388.4	4382.7	4388.4	4382.7	4341.0	4344.8	4344.8	4323.9	4310.7
5°	4414.9	4405.4	4363.7	4356.1	4333.4	4297.4	4229.2	4214.0	4200.8	4166.7	4161.0
7.5°	4441.4	4428.1	4361.8	4331.5	4269.0	4204.6	4111.7	4056.8	4030.2	3988.5	3994.2
10°	4519.1	4490.7	4395.9	4337.2	4219.7	4113.6	3979.1	3895.7	3846.4	3783.9	3804.8
12.5°	4659.3	4615.7	4498.2	4395.9	4215.9	4058.7	3867.3	3713.8	3636.1	3564.1	3585.0
15°	4850.7	4803.3	4659.3	4503.9	4265.2	4035.9	3772.5	3530.0	3389.8	3296.9	3302.6
17.5°	5064.8	5023.1	4858.3	4651.7	4341.0	4020.8	3664.5	3338.6	3082.8	2950.2	2946.4
20°	5292.2	5267.5	5087.5	4809.0	4418.7	3986.7	3526.2	3094.2	2741.8	2518.2	2499.2
22.5°	5553.7	5542.3	5332.0	4964.4	4454.7	3909.0	3340.5	2791.0	2323.0	2019.9	2000.9
25°	5896.6	5879.6	5574.5	5072.4	4439.5	3778.2	3080.9	2427.2	1792.5	1443.8	1428.7
27.5°	6309.7	6224.4	5788.6	5127.3	4365.6	3571.7	2741.8	1887.2	1205.1	888.7	881.1
30°	6773.9	6607.2	5976.2	5133.0	4229.2	3283.7	2243.4	1220.2	701.1	500.2	496.4
32.5°	7376.4	7082.8	6178.9	5100.8	4020.8	2895.3	1603.0	699.2	352.4	269.1	269.1
35°	8562.6	7922.1	6438.5	5017.4	3730.9	2340.1	989.1	339.2	206.5	202.7	204.6
37.5°	10324.8	9280.7	6863.0	4882.9	3344.3	1686.4	507.8	189.5	189.5	197.1	199.0
40°	11880.4	10701.8	7475.0	4693.4	2830.8	1066.8	242.5	178.1	189.5	191.4	195.2
42.5°	13112.0	11842.5	8121.1	4407.3	2228.3	568.4	202.7	172.4	176.2	174.3	181.9
45°	14097.3	12742.5	8619.4	4032.1	1572.7	291.8	210.3	166.7	153.5	153.5	157.3
47.5°	14864.7	13426.5	8932.1	3624.7	956.9	235.0	210.3	147.8	138.3	140.2	142.1
50°	15539.2	13938.1	9040.1	3122.6	481.3	238.7	202.7	140.2	123.2	125.1	128.8
52.5°	16024.3	14298.1	8958.6	2499.2	265.3	242.5	193.3	128.8	106.1	115.6	119.4
55°	16390.0	14468.7	8689.5	1777.3	240.6	238.7	187.6	115.6	94.7	113.7	119.4
57.5°	16596.5	14525.5	8232.9	1157.7	263.4	210.3	172.4	106.1	89.1	111.8	119.4
60°	16681.8	14421.3	7573.5	678.3	269.1	185.7	161.1	98.5	81.5	92.8	96.6
62.5°	16592.7	14154.1	6603.4	428.2	246.3	176.2	153.5	92.8	68.2	66.3	64.4
65°	16238.4	13492.9	5000.4	343.0	229.3	176.2	144.0	81.5	53.1	39.8	36.0
67.5°	15391.4	12128.6	2828.9	339.2	223.6	172.4	130.7	73.9	41.7	20.8	17.1
68°	15135.6	11736.4	2383.7	344.9	229.3	172.4	128.8	70.1	39.8	17.1	13.3
70°	13576.2	9619.9	822.3	331.6	261.5	181.9	123.2	60.6	32.2	7.6	5.7
72.5°	10338.0	5909.9	363.8	267.2	288.0	189.5	123.2	58.7	26.5	1.9	0.0
75°	6010.3	1455.2	310.7	180.0	240.6	225.5	142.1	68.2	24.6	0.0	0.0
77.5°	1457.1	335.4	271.0	104.2	189.5	246.3	168.6	75.8	26.5	0.0	0.0
80°	346.7	261.5	263.4	66.3	151.6	219.8	145.9	81.5	37.9	0.0	0.0
82.5°	229.3	206.5	235.0	36.0	87.2	163.0	102.3	51.2	47.4	0.0	0.0
85°	155.4	189.5	134.5	20.8	34.1	54.9	41.7	7.6	9.5	0.0	0.0
87.5°	87.2	54.9	22.7	9.5	7.6	5.7	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)