

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: P285819

Luminaire Tested: **PRV-XL-C175-D-UNV-T3-BZ-7050-HSS**

Issue Date: 2/13/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P285819  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-8)  
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-T3-BZ-7050-HSS  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, BRONZE  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44994 lumens  
Efficiency: N/A  
Efficacy: 130.0 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

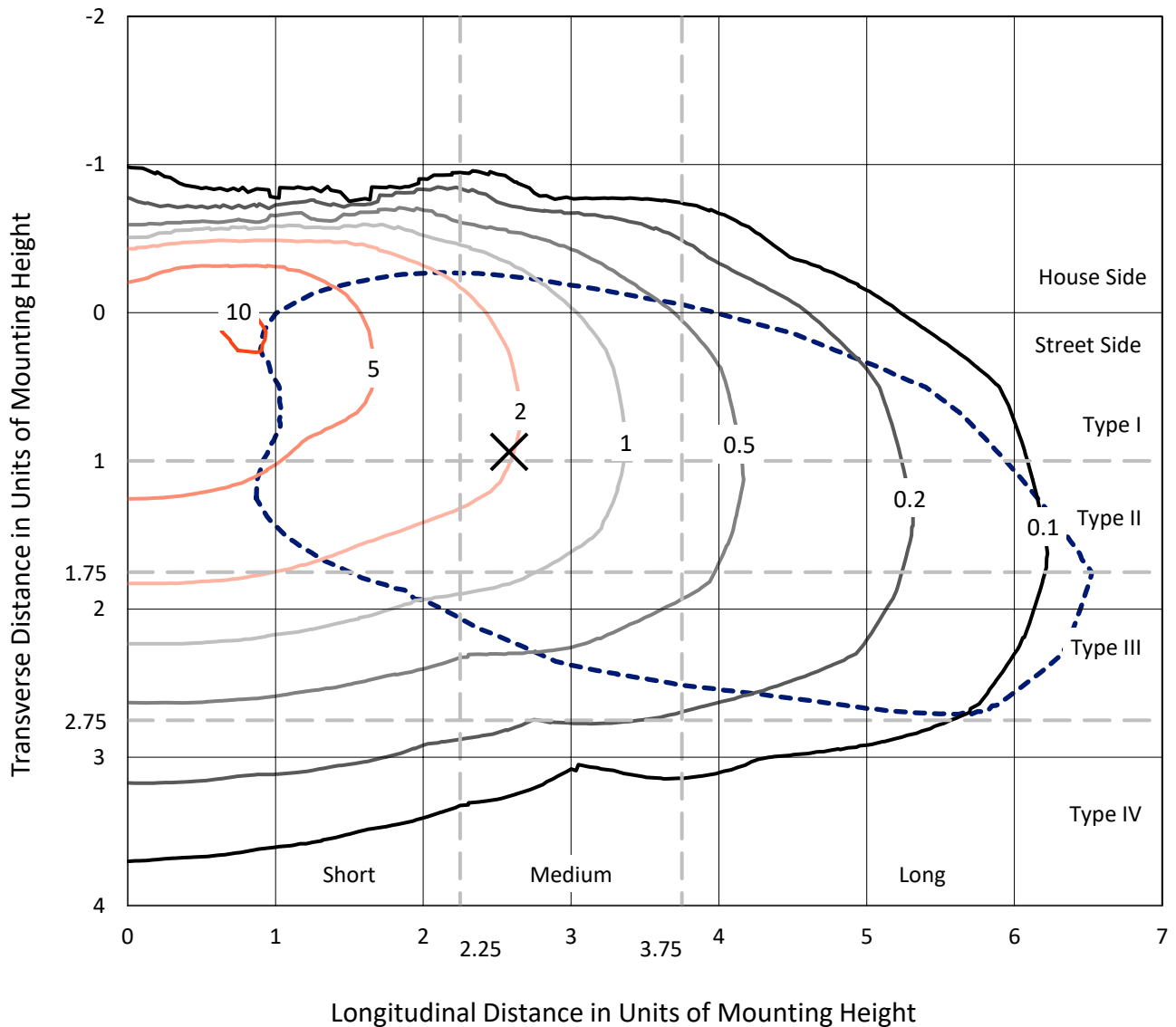
Input Watts (W): 346  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

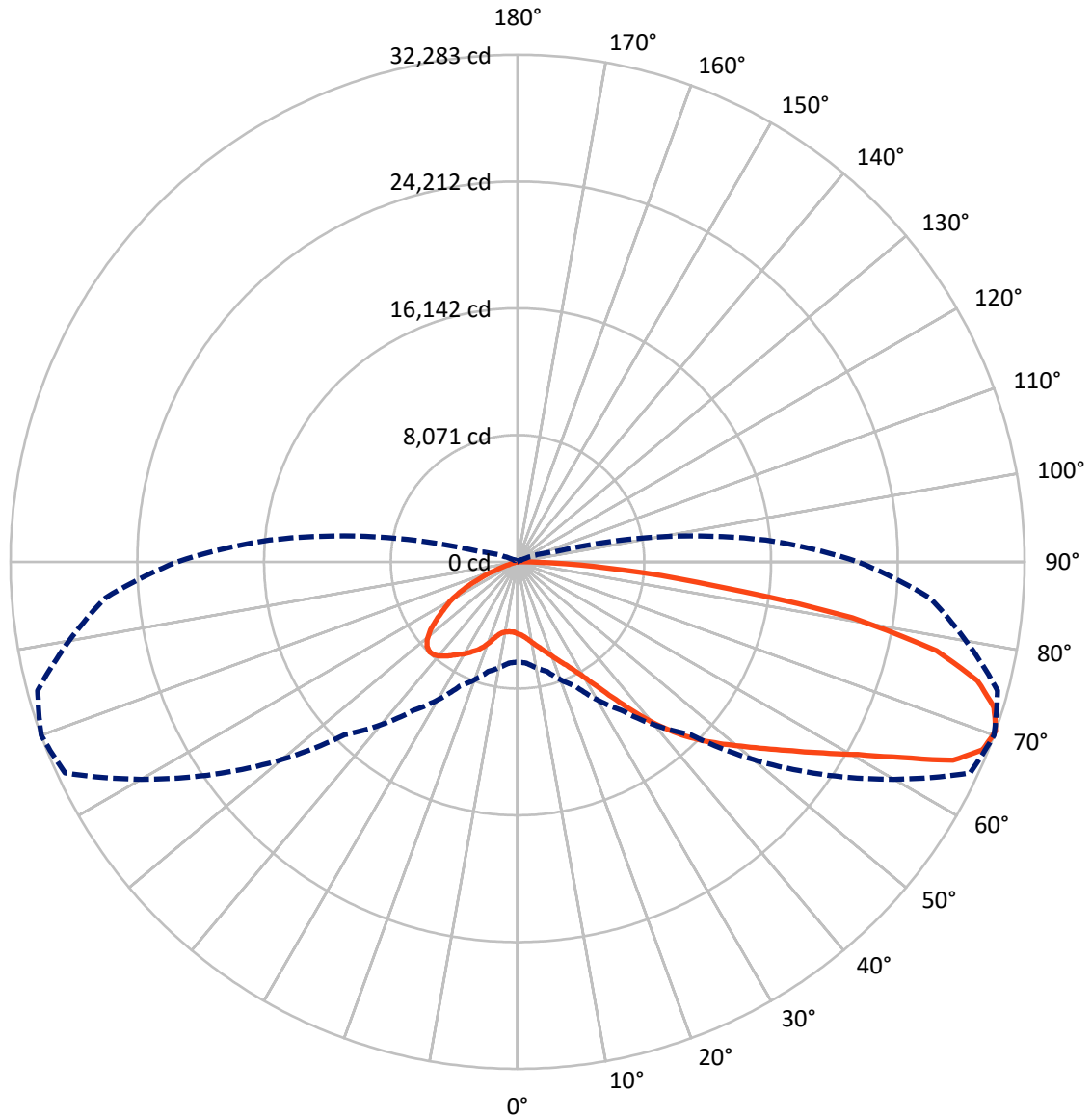
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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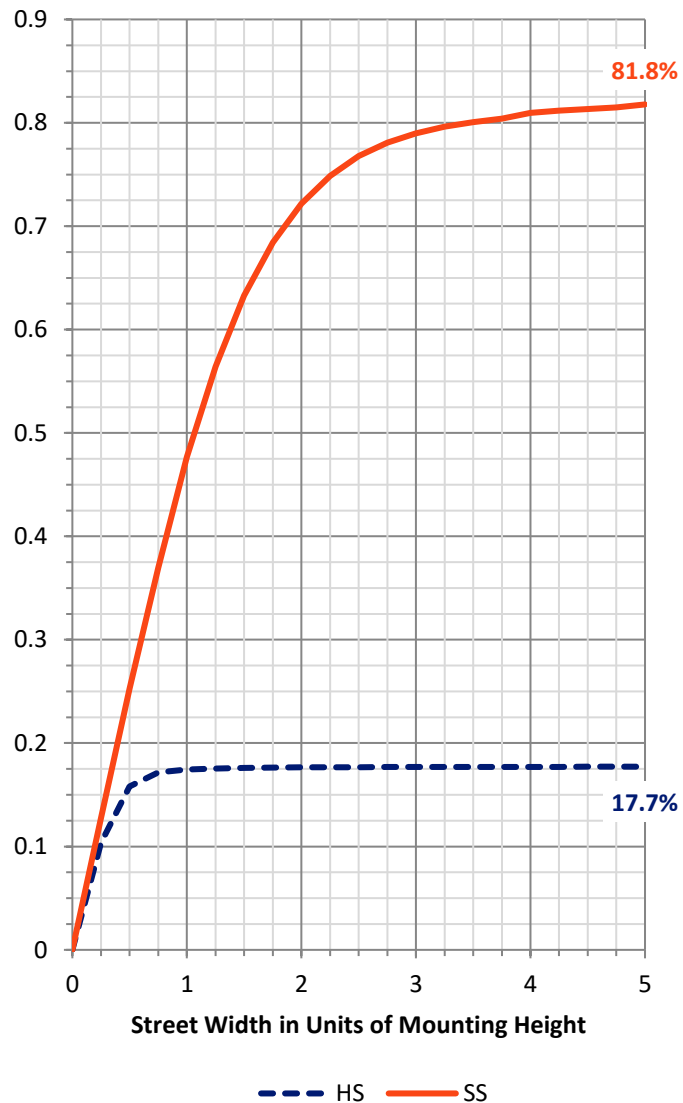
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8062.6	0.0	8062.6
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	36931.4	0.0	36931.4
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	44994.0	0.0	44994.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	444.5	1.0
10°-20°	1397.0	3.1
20°-30°	2543.9	5.7
30°-40°	4324.9	9.6
40°-50°	6802.8	15.1
50°-60°	9183.1	20.4
60°-70°	10743.2	23.9
70°-80°	7994.1	17.8
80°-90°	1560.6	3.5
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°	44994.0	100.0
0°-180°	44994.0	100.0

**Coefficient of Utilization**



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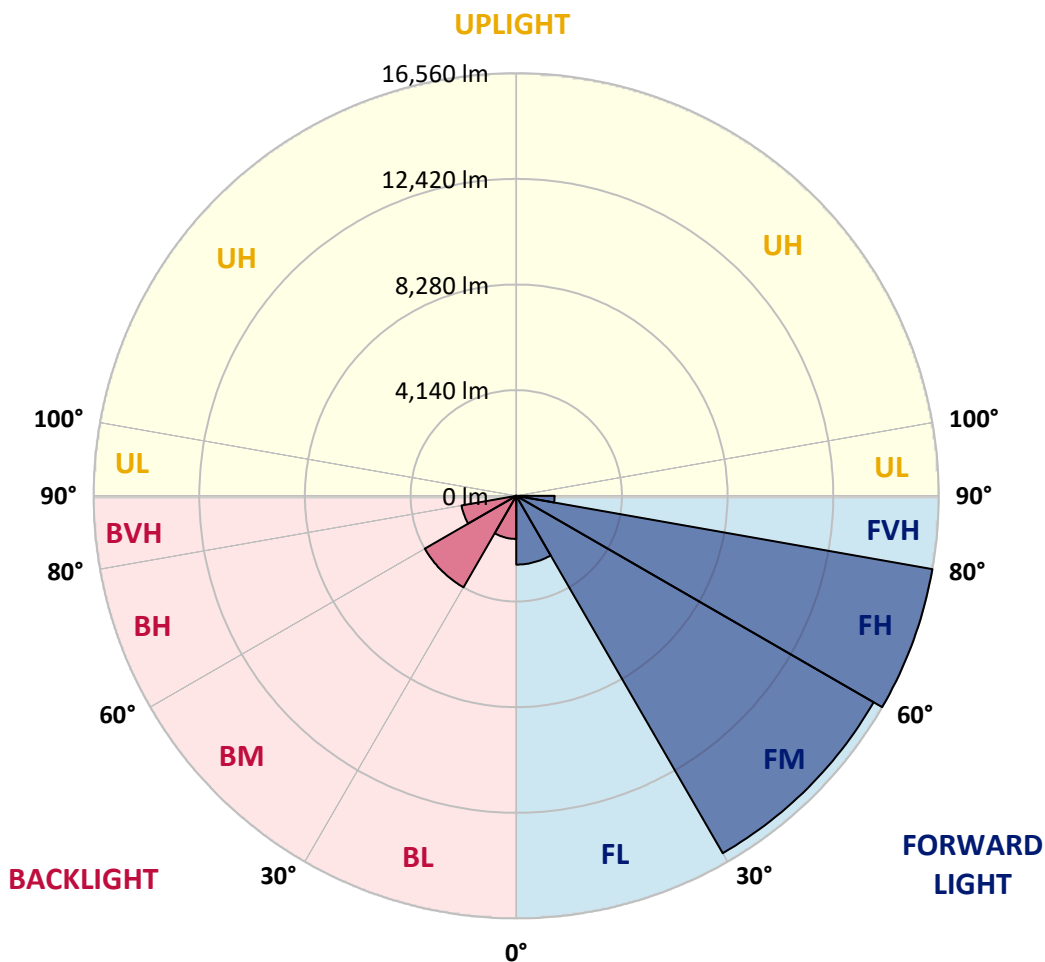
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2695.4	6.0			
FM (30°-60°)	16172.7	35.9			
FH (60°-80°)	16559.9	36.8			G5
FVH (80°-90°)	1503.4	3.3			G5
BL (0°-30°)	1690.0	3.8	B3/2500		
BM (30°-60°)	4138.0	9.2	B3/5000		
BH (60°-80°)	2177.4	4.8	B3/2500		G3/2500
BVH (80°-90°)	57.2	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4598.6	4598.6	4598.6	4598.6	4598.6	4598.6	4598.6	4598.6	4598.6	4598.6	4598.6
2.5°	4856.3	4852.5	4860.1	4841.2	4852.5	4816.5	4784.3	4738.9	4668.7	4644.1	4596.7
5°	5093.2	5097.0	5095.1	5081.8	5064.8	5026.9	4962.4	4899.9	4816.5	4776.7	4683.9
7.5°	5295.9	5297.8	5305.4	5301.6	5292.1	5242.9	5184.1	5104.5	5004.1	4953.0	4826.0
10°	5457.0	5455.1	5466.4	5483.5	5521.4	5483.5	5405.8	5341.4	5233.4	5165.2	5007.9
12.5°	5563.1	5549.8	5582.0	5629.4	5697.6	5703.3	5652.1	5585.8	5491.1	5411.5	5235.3
15°	5612.3	5606.7	5665.4	5763.9	5862.5	5894.7	5887.1	5837.8	5767.7	5688.1	5496.8
17.5°	5727.9	5726.0	5765.8	5881.4	5997.0	6078.5	6161.8	6154.3	6089.8	6033.0	5834.0
20°	5915.5	5919.3	5919.3	6019.7	6146.7	6290.7	6455.5	6506.7	6455.5	6421.4	6230.0
22.5°	6144.8	6127.7	6116.4	6199.7	6355.1	6555.9	6789.0	6883.7	6876.2	6842.1	6726.5
25°	6466.9	6429.0	6347.5	6451.7	6643.1	6878.1	7150.9	7310.1	7323.3	7332.8	7416.2
27.5°	6978.5	6976.6	6838.3	6845.9	6976.6	7249.4	7582.9	7857.7	7895.6	8001.7	8287.8
30°	8009.2	7905.0	7745.9	7492.0	7448.4	7706.1	8104.0	8524.6	8632.6	8956.6	9303.4
32.5°	8973.7	8896.0	8784.2	8490.5	8132.4	8227.1	8680.0	9303.4	9587.6	10233.7	10550.2
35°	9801.7	9761.9	9678.6	9504.2	9180.2	8935.8	9307.2	10169.3	10768.1	11715.4	11992.1
37.5°	10610.8	10580.5	10525.5	10372.0	10169.3	9803.6	10036.7	11190.6	12164.5	13274.9	13417.0
40°	11321.3	11311.9	11359.2	11264.5	11175.4	10948.1	10879.8	12268.7	13623.5	14794.5	14760.4
42.5°	11942.8	11927.7	12158.8	12033.8	12139.9	12052.7	11910.6	13276.7	14946.1	16041.2	15925.7
45°	12357.8	12350.2	12594.6	12719.7	13019.1	13083.5	12998.2	14322.7	16151.1	17183.8	16929.9
47.5°	12674.2	12653.4	12787.9	13269.2	13822.4	13953.2	14118.0	15489.9	17284.2	18193.7	17886.8
50°	12846.6	12854.2	13130.8	13780.8	14599.3	14900.6	15247.3	16876.8	18436.2	19275.6	18767.8
52.5°	12958.4	13039.9	13447.3	14229.8	15347.7	15876.4	16274.3	18375.6	19741.7	20296.9	19755.0
55°	13038.0	13182.0	13589.4	14472.4	15815.8	16691.1	17272.8	19955.9	21227.3	21577.8	20800.9
57.5°	12524.5	12678.0	13363.9	14515.9	16202.3	17379.0	18417.3	21647.9	22964.8	22997.0	21773.0
60°	11685.1	11779.9	12657.2	14248.8	16147.3	18011.8	19821.3	23652.6	24901.2	24884.2	22974.2
62.5°	10817.3	10866.6	11757.1	13543.9	15836.6	18244.9	21159.0	26347.0	27419.4	26913.5	24198.3
65°	9671.0	9725.9	10644.9	12380.5	14972.6	18087.6	22303.5	29172.1	30458.6	29651.5	25382.5
67.5°	8177.9	8282.1	9131.0	10743.4	13566.6	17257.7	23175.1	31108.6	31936.6	31229.8	26212.4
70°	6377.8	6470.7	7228.6	8748.2	11539.2	15565.6	23580.6	31790.7	32283.3	31635.3	26352.6
72.5°	4541.8	4610.0	4945.4	6216.8	8752.0	13007.7	23195.9	31462.9	31718.7	30909.6	25401.5
75°	3458.0	3403.0	3602.0	4083.3	5119.7	9140.4	20855.9	29981.2	30242.6	29350.2	23546.5
77.5°	2503.0	2459.4	2698.2	3071.4	3571.7	4297.4	14659.9	26938.1	27275.4	26545.9	20397.3
80°	1472.2	1534.8	1851.2	2205.5	2603.4	2863.0	6912.2	20124.5	21610.0	21312.5	14870.3
82.5°	280.4	303.2	769.3	1169.1	1434.4	1517.7	2616.7	11069.3	12687.5	13011.5	7855.8
85°	183.8	199.0	460.4	469.9	458.5	587.4	1057.3	5333.8	6849.6	6927.3	3450.4
87.5°	85.3	94.7	140.2	202.7	257.7	308.8	348.6	1432.5	2116.5	2165.7	682.1
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°	4598.6	4598.6	4598.6	4598.6	4598.6	4598.6	4598.6	4598.6	4598.6	4598.6	4598.6
2.5°	4572.1	4553.2	4513.4	4479.3	4456.5	4443.3	4367.5	4354.2	4325.8	4304.9	4295.5
5°	4640.3	4604.3	4507.7	4441.4	4356.1	4286.0	4159.0	4094.6	4056.7	4016.9	4007.5
7.5°	4755.9	4697.2	4545.6	4426.2	4280.3	4153.4	3975.3	3872.9	3800.9	3744.1	3738.4
10°	4918.9	4826.0	4608.1	4433.8	4223.5	4049.2	3827.5	3662.6	3562.2	3488.3	3484.5
12.5°	5121.6	4994.6	4725.6	4494.4	4223.5	3982.8	3719.5	3499.7	3351.9	3251.4	3240.1
15°	5375.5	5223.9	4920.8	4636.5	4316.3	4009.4	3645.6	3350.0	3134.0	2972.9	2965.3
17.5°	5691.9	5534.7	5239.1	4918.9	4492.5	4051.0	3590.6	3173.8	2861.1	2669.7	2648.9
20°	6091.7	6017.8	5714.7	5246.7	4674.4	4071.9	3467.5	2929.3	2504.9	2258.6	2226.4
22.5°	6664.0	6622.3	6188.4	5527.1	4778.6	4007.5	3264.7	2539.0	2023.6	1758.4	1733.7
25°	7380.2	7236.2	6612.8	5735.5	4797.6	3865.4	2921.8	2040.7	1464.7	1201.3	1191.8
27.5°	8126.7	7865.2	6980.4	5881.4	4742.6	3579.2	2440.5	1451.4	913.3	744.6	746.5
30°	9068.4	8572.0	7397.2	6019.7	4615.7	3190.8	1809.5	903.8	574.1	471.8	458.5
32.5°	10154.1	9466.3	7814.1	6074.7	4378.8	2641.3	1148.2	555.2	360.0	307.0	301.3
35°	11421.8	10572.9	8350.3	6080.4	3988.5	1963.0	687.8	325.9	244.4	246.3	250.1
37.5°	12744.3	11745.8	9004.0	6012.1	3501.6	1227.8	388.4	210.3	210.3	250.1	263.4
40°	13941.8	12867.5	9697.5	5858.7	2815.6	714.3	219.8	181.9	193.3	235.0	246.3
42.5°	15040.8	13837.6	10332.3	5619.9	2010.4	386.5	189.5	164.8	174.3	193.3	199.0
45°	15992.0	14680.8	10788.9	5235.3	1220.2	238.7	174.3	149.7	147.8	161.1	164.8
47.5°	16812.4	15434.9	11097.7	4685.8	638.5	227.4	168.6	136.4	127.0	132.6	134.5
50°	17653.7	15993.9	11213.3	3914.6	327.8	214.1	157.3	127.0	117.5	134.5	136.4
52.5°	18504.5	16833.3	11228.5	2836.5	259.6	193.3	144.0	117.5	113.7	149.7	155.4
55°	19332.5	17445.3	11010.6	1642.8	252.0	180.0	130.7	106.1	109.9	113.7	113.7
57.5°	20206.0	18178.6	10552.0	718.1	244.4	164.8	121.3	96.6	81.5	90.9	94.7
60°	21142.0	18811.4	9629.3	415.0	233.1	147.8	104.2	79.6	68.2	68.2	73.9
62.5°	22087.5	19275.6	8119.1	303.2	221.7	138.3	90.9	70.1	56.8	56.8	60.6
65°	22701.4	18966.8	6262.3	269.1	214.1	125.1	79.6	60.6	45.5	43.6	47.4
67.5°	22589.6	17784.4	4411.1	240.6	195.2	113.7	70.1	53.1	39.8	32.2	34.1
70°	21663.1	15851.8	2446.2	225.5	174.3	104.2	62.5	47.4	32.2	20.8	20.8
72.5°	19955.9	13320.3	939.8	202.7	155.4	90.9	56.8	45.5	28.4	11.4	9.5
75°	17407.4	10137.1	339.2	170.5	128.8	83.4	54.9	47.4	26.5	3.8	0.0
77.5°	13648.1	5673.0	200.8	127.0	96.6	72.0	58.7	47.4	15.2	0.0	0.0
80°	7330.9	2048.3	142.1	81.5	64.4	53.1	53.1	37.9	7.6	0.0	0.0
82.5°	3043.0	460.4	90.9	45.5	43.6	34.1	34.1	17.1	1.9	0.0	0.0
85°	862.1	134.5	41.7	24.6	24.6	18.9	9.5	0.0	0.0	0.0	0.0
87.5°	73.9	28.4	11.4	13.3	9.5	3.8	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)