

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: P285786

Luminaire Tested: **PRV-XL-C100-D-UNV-T3-BZ-7030**

Issue Date: 2/13/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P285786  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-7)  
Test Lab: INNOVATIONS CENTER(G2)  
Issue Date: 2/13/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-XL-C100-D-UNV-T3-BZ-7030  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30497 lumens  
Efficiency: N/A  
Efficacy: 140.5 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

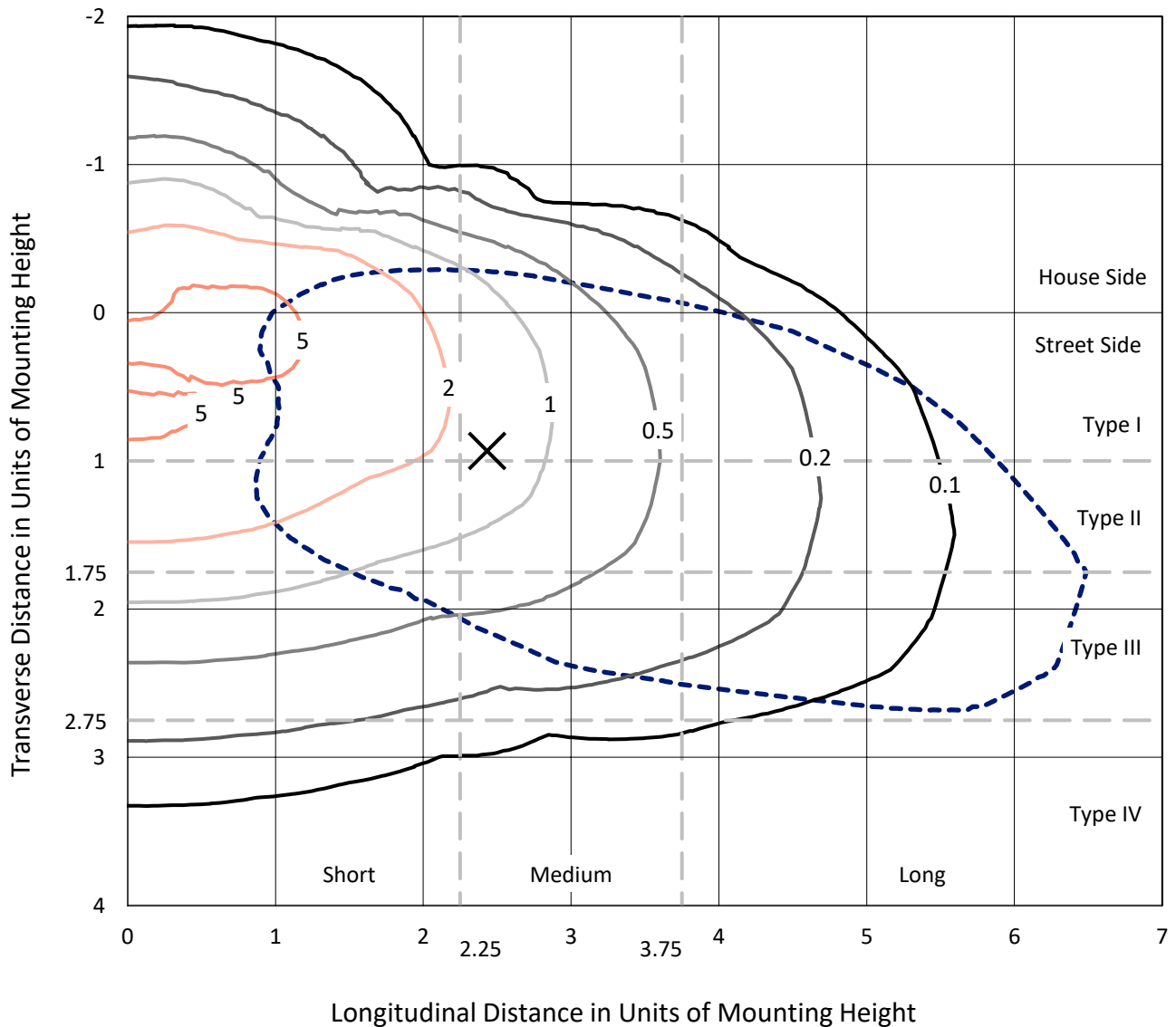
Input Watts (W): 217  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

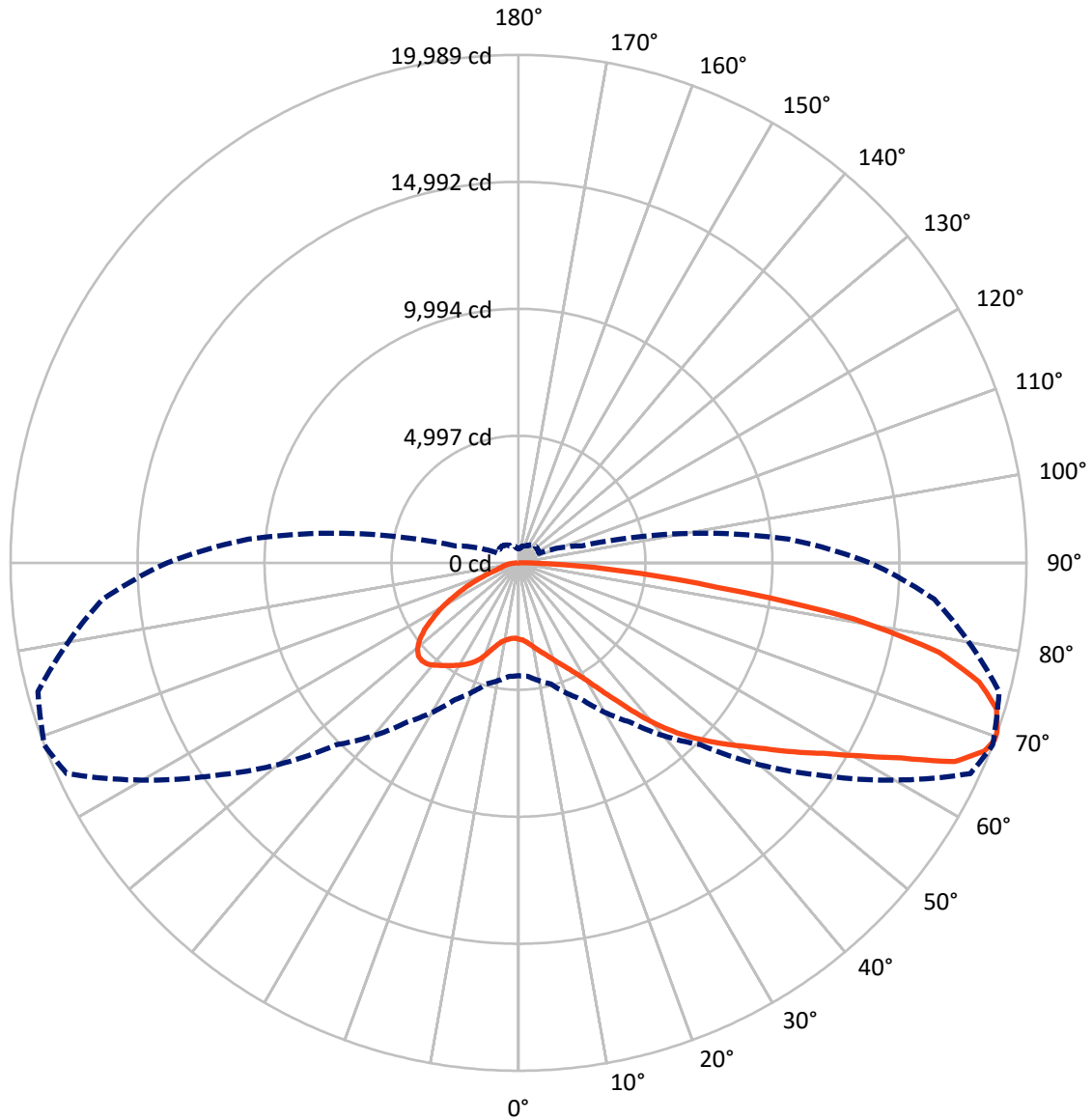
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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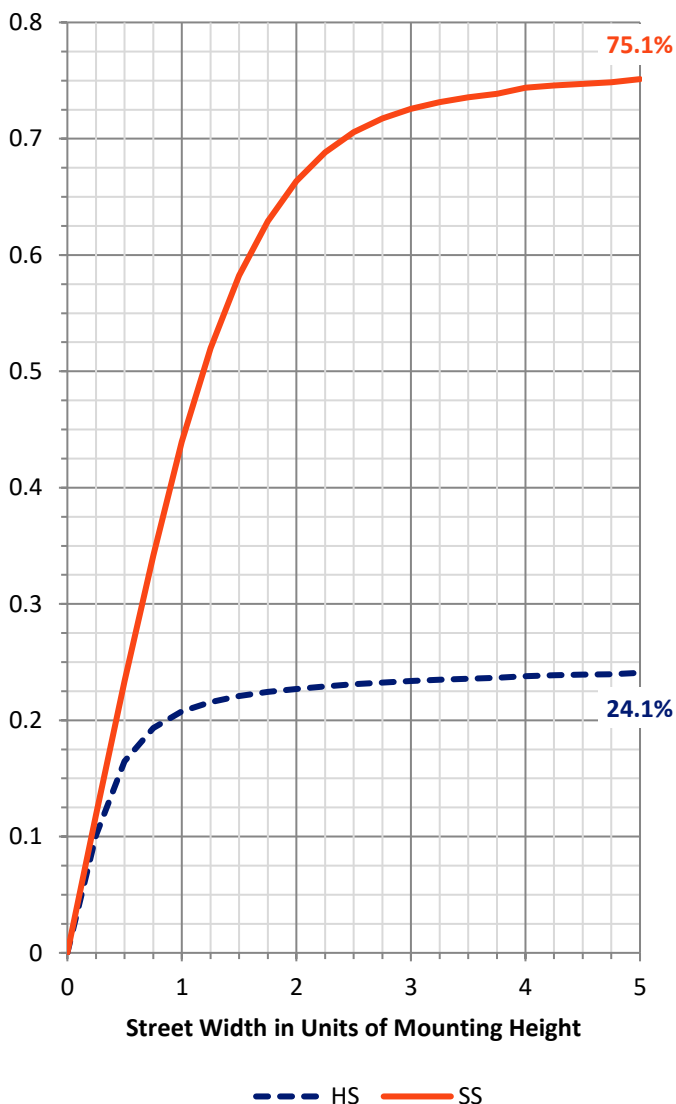
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7497.8	0.0	7497.8
	% Fixture	24.6	0.0	24.6
<b>Street Side</b>	Lumens	22999.2	0.0	22999.2
	% Fixture	75.4	0.0	75.4
<b>Total</b>	Lumens	30497.0	0.0	30497.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.4	1.0
10°-20°	965.9	3.2
20°-30°	1809.1	5.9
30°-40°	3073.8	10.1
40°-50°	4716.9	15.5
50°-60°	6162.9	20.2
60°-70°	7017.6	23.0
70°-80°	5298.1	17.4
80°-90°	1156.2	3.8
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°	30497.0	100.0
0°-180°	30497.0	100.0

**Coefficient of Utilization**

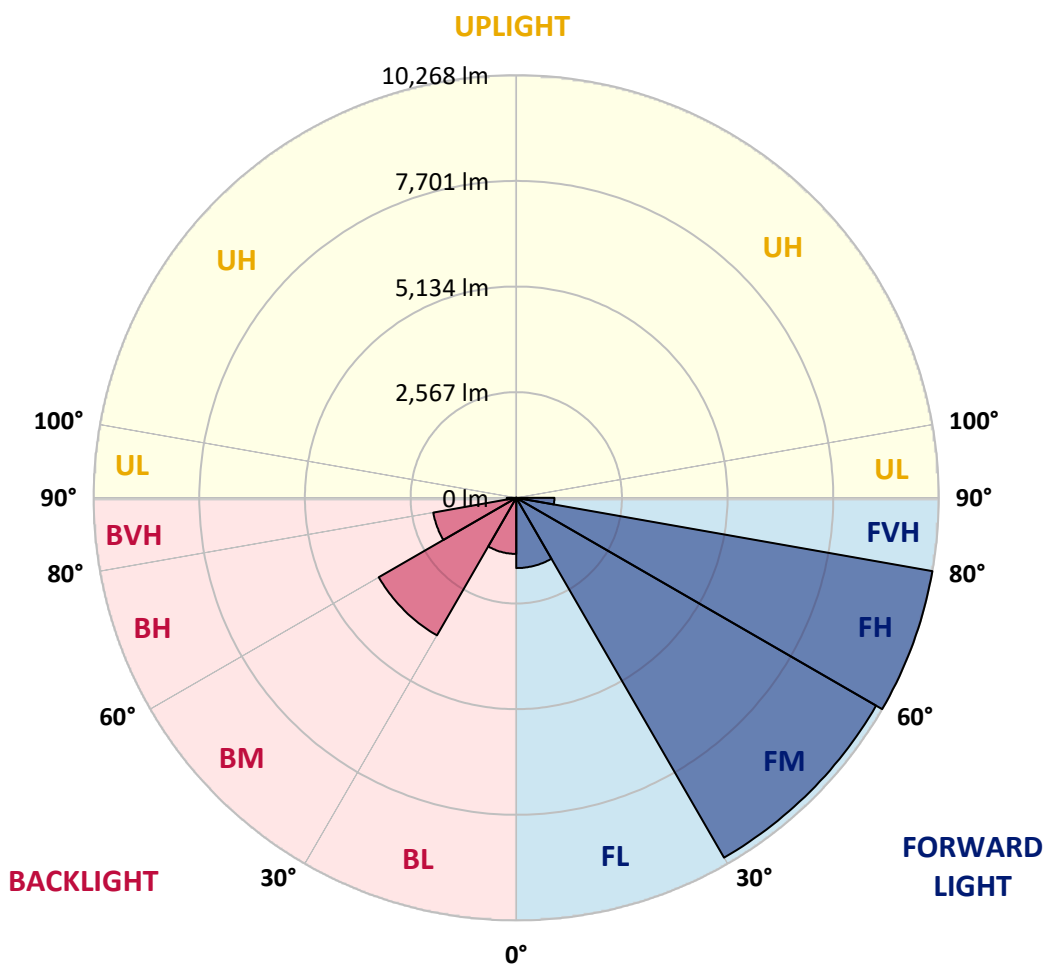


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1708.1	5.6			
FM (30°-60°)	10095.7	33.1			
FH (60°-80°)	10268.5	33.7			G4/12000
FVH (80°-90°)	927.0	3.0			G5
BL (0°-30°)	1363.3	4.5	B3/2500		
BM (30°-60°)	3857.9	12.7	B3/5000		
BH (60°-80°)	2047.3	6.7	B3/2500		G3/2500
BVH (80°-90°)	229.3	0.8			G3/500
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°	69°	75°	85°
0°	3008.8	3008.8	3008.8	3008.8	3008.8	3008.8	3008.8	3008.8	3008.8	3008.8	3008.8
2.5°	3123.2	3132.6	3131.4	3126.7	3124.4	3111.6	3095.2	3074.2	3039.2	3022.8	3001.8
5°	3256.3	3263.3	3264.5	3256.3	3247.0	3227.1	3193.3	3160.6	3122.1	3098.7	3057.8
7.5°	3369.6	3375.4	3385.9	3378.9	3374.3	3357.9	3325.2	3286.7	3236.5	3203.8	3146.6
10°	3460.7	3465.3	3473.5	3485.2	3507.4	3493.3	3454.8	3428.0	3382.4	3332.2	3261.0
12.5°	3526.0	3522.5	3545.9	3566.9	3612.4	3627.6	3600.8	3580.9	3536.5	3485.2	3401.1
15°	3556.4	3555.2	3596.1	3648.6	3716.4	3740.9	3740.9	3718.7	3694.2	3654.5	3565.7
17.5°	3621.8	3626.4	3653.3	3721.0	3793.4	3850.6	3905.5	3907.8	3889.2	3862.3	3770.1
20°	3722.2	3730.4	3744.4	3798.1	3878.6	3979.1	4081.8	4119.2	4109.8	4099.3	4026.9
22.5°	3848.3	3851.8	3848.3	3895.0	4002.4	4137.8	4286.1	4348.0	4353.8	4355.0	4318.8
25°	4050.3	4035.1	3996.6	4038.6	4163.5	4320.0	4501.0	4603.7	4630.6	4655.1	4741.5
27.5°	4419.2	4384.2	4311.8	4297.8	4369.0	4540.7	4764.8	4936.5	4975.0	5042.7	5272.7
30°	5014.7	4968.0	4900.3	4693.6	4665.6	4812.7	5097.6	5342.8	5419.8	5625.3	5890.4
32.5°	5618.3	5588.0	5512.1	5313.6	5103.4	5158.3	5438.5	5821.5	5987.3	6402.9	6648.1
35°	6136.7	6121.5	6078.3	5981.4	5737.4	5583.3	5827.3	6359.7	6669.1	7318.3	7539.0
37.5°	6636.4	6629.4	6631.8	6499.8	6397.1	6175.2	6273.3	6987.9	7495.8	8276.9	8425.1
40°	7073.1	7076.6	7112.8	7052.1	7034.6	6896.8	6798.7	7658.0	8353.9	9224.9	9259.9
42.5°	7431.5	7435.0	7603.2	7512.1	7620.7	7590.3	7449.1	8283.9	9143.2	9992.0	9987.3
45°	7667.4	7673.2	7839.0	7912.6	8142.6	8243.0	8137.9	8926.0	9879.9	10701.9	10609.6
47.5°	7842.5	7837.8	7932.4	8229.0	8621.3	8819.8	8858.3	9655.7	10594.5	11359.2	11199.3
50°	7937.1	7947.6	8128.6	8524.4	9103.5	9380.2	9591.5	10517.4	11327.7	11993.2	11767.9
52.5°	7996.6	8049.2	8314.2	8784.7	9539.0	9972.2	10237.2	11472.5	12154.3	12651.7	12370.3
55°	8038.7	8134.4	8395.9	8921.3	9809.9	10452.0	10843.2	12457.9	13130.4	13397.8	13031.2
57.5°	7738.6	7830.8	8255.8	8942.4	10023.5	10846.7	11488.8	13498.2	14148.5	14317.8	13685.0
60°	7226.0	7280.9	7828.5	8777.7	9976.8	11205.1	12336.5	14732.3	15413.0	15425.8	14373.9
62.5°	6698.3	6720.5	7273.9	8348.1	9766.7	11323.0	13184.1	16377.4	16912.1	16748.7	15105.9
65°	5997.8	6022.3	6593.2	7641.7	9258.8	11192.3	13877.7	18111.2	18859.6	18423.0	15832.2
67.5°	5082.4	5136.1	5666.2	6637.6	8355.1	10686.7	14375.0	19305.7	19764.5	19388.5	16334.2
69°	4441.4	4491.6	4936.5	5942.9	7651.0	10116.9	14584.0	19620.9	19988.7	19578.9	16418.3
70°	3980.2	4018.8	4435.6	5423.3	7099.9	9630.1	14629.6	19706.1	19977.0	19585.9	16372.7
72.5°	2837.2	2869.9	3096.4	3794.6	5381.3	8066.7	14406.6	19474.9	19673.4	19109.5	15776.1
75°	2098.1	2123.8	2259.2	2506.8	3132.6	5708.2	13017.2	18514.0	18725.4	18068.0	14532.7
77.5°	1522.5	1543.5	1674.3	1916.0	2204.4	2687.7	9024.1	16709.0	16916.8	16389.1	12510.4
80°	1039.1	1061.3	1179.2	1383.6	1611.2	1788.7	4430.9	12229.1	13374.4	13117.6	8915.5
82.5°	195.0	239.4	506.7	718.1	906.0	969.1	1675.5	6724.0	7813.3	7969.8	4649.2
85°	129.6	140.1	309.4	301.2	295.4	433.2	656.2	3223.6	4078.3	4225.4	2007.0
87.5°	64.2	67.7	92.2	127.3	162.3	195.0	216.0	850.0	1228.3	1317.0	374.8
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°	3008.8	3008.8	3008.8	3008.8	3008.8	3008.8	3008.8	3008.8	3008.8	3008.8	3008.8
2.5°	2993.6	2987.8	2970.3	2963.3	2958.6	2956.3	2928.2	2923.6	2909.6	2900.2	2892.1
5°	3038.0	3028.7	2987.8	2972.6	2949.3	2929.4	2882.7	2862.9	2848.9	2830.2	2822.0
7.5°	3116.2	3099.9	3038.0	3010.0	2969.1	2935.3	2871.0	2840.7	2813.8	2788.1	2783.5
10°	3222.5	3192.1	3106.9	3063.7	3004.1	2964.4	2889.7	2831.3	2791.6	2762.5	2761.3
12.5°	3361.4	3315.9	3213.1	3155.9	3082.4	3021.7	2936.4	2848.9	2783.5	2736.8	2734.4
15°	3527.2	3479.3	3375.4	3301.9	3215.5	3133.7	2997.1	2867.5	2759.0	2684.2	2674.9
17.5°	3730.4	3684.8	3590.3	3530.7	3409.3	3248.2	3054.3	2860.5	2705.2	2602.5	2587.3
20°	3987.2	4000.1	3911.3	3781.7	3579.7	3342.7	3082.4	2824.3	2599.0	2455.4	2434.4
22.5°	4345.7	4388.9	4240.6	4002.4	3709.3	3392.9	3070.7	2728.6	2453.0	2279.1	2261.6
25°	4784.7	4771.8	4504.5	4164.7	3775.9	3391.8	3005.3	2592.0	2267.4	2071.3	2058.4
27.5°	5243.5	5166.5	4753.1	4277.9	3787.6	3327.6	2876.9	2386.5	2053.7	1890.3	1851.8
30°	5828.5	5613.6	5007.7	4373.7	3749.0	3205.0	2644.5	2189.2	1931.1	1753.7	1728.0
32.5°	6504.5	6147.2	5293.7	4402.9	3663.8	3017.0	2392.3	2098.1	1850.6	1648.6	1619.4
35°	7290.3	6830.2	5625.3	4413.4	3501.5	2737.9	2255.7	2045.6	1796.9	1568.0	1529.5
37.5°	8112.2	7554.1	6034.0	4401.7	3312.4	2432.0	2160.0	1969.7	1736.2	1549.4	1527.2
40°	8854.8	8251.2	6495.2	4369.0	3053.2	2233.5	2056.1	1864.6	1683.6	1542.4	1524.8
42.5°	9535.5	8858.3	6936.5	4314.1	2729.8	2092.3	1941.7	1786.4	1617.1	1444.3	1409.2
45°	10125.1	9418.7	7263.4	4183.4	2367.8	1947.5	1803.9	1677.8	1517.8	1346.2	1311.2
47.5°	10630.7	9881.1	7520.3	3959.2	2075.9	1812.1	1647.4	1548.2	1408.1	1244.6	1209.6
50°	11146.7	10257.0	7670.9	3589.1	1831.9	1656.8	1492.1	1397.6	1277.3	1158.2	1137.2
52.5°	11700.1	10867.7	7890.4	2979.6	1606.6	1493.3	1327.5	1224.8	1136.0	1085.8	1066.0
55°	12259.4	11409.4	7971.0	2253.4	1409.2	1364.9	1172.2	1039.1	976.1	944.6	939.9
57.5°	12815.2	11871.8	7695.4	1604.2	1278.5	1216.6	1006.4	880.3	805.6	827.8	861.7
60°	13383.8	12209.2	6991.4	1255.1	1175.7	1039.1	866.3	772.9	740.2	715.7	716.9
62.5°	13909.2	12366.8	5793.4	1066.0	1076.5	929.4	817.3	726.2	693.5	651.5	638.7
65°	14258.3	12088.9	4522.0	986.6	986.6	901.4	815.0	727.4	683.0	609.5	596.6
67.5°	14157.9	11365.1	3346.2	915.4	929.4	913.0	834.8	725.1	670.2	600.1	595.5
69°	13834.5	10671.5	2569.8	894.4	920.0	923.5	858.2	736.7	684.2	577.9	552.3
70°	13509.9	10136.8	2127.3	876.8	917.7	930.5	876.8	750.7	673.7	542.9	526.6
72.5°	12406.5	8567.6	1071.8	809.1	914.2	938.7	917.7	803.3	667.8	523.1	509.1
75°	10907.4	6589.7	687.7	751.9	885.0	948.1	950.4	852.3	670.2	511.4	493.9
77.5°	8739.2	3820.3	570.9	687.7	830.1	929.4	960.9	889.7	698.2	531.2	511.4
80°	4646.9	1510.8	458.9	587.3	760.1	873.3	931.7	876.8	691.2	443.7	430.8
82.5°	2057.2	469.4	336.3	461.2	597.8	763.6	791.6	771.8	604.8	268.5	307.1
85°	577.9	193.8	224.2	331.6	413.3	540.6	620.0	622.3	469.4	116.8	26.9
87.5°	59.5	44.4	65.4	127.3	238.2	374.8	453.0	434.3	314.1	99.2	2.3
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)