

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: P395130

Luminaire Tested: **LAS100S-T4-Switch-6**

Issue Date: 5/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395130  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2004-740-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: LAS100S-T4-Switch-6  
Description: AREA SITE LARGE HOUSING, TYPE IV, WATTAGE SWITCH ON POSTION 6  
Light Source: (288) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19169 lumens  
Efficiency: N/A  
Efficacy: 155.3 lumens/watt  
Luminous Opening: Rectangular (W 0.88' x L: 1.29' x H: 0')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B3 - U0 - G3

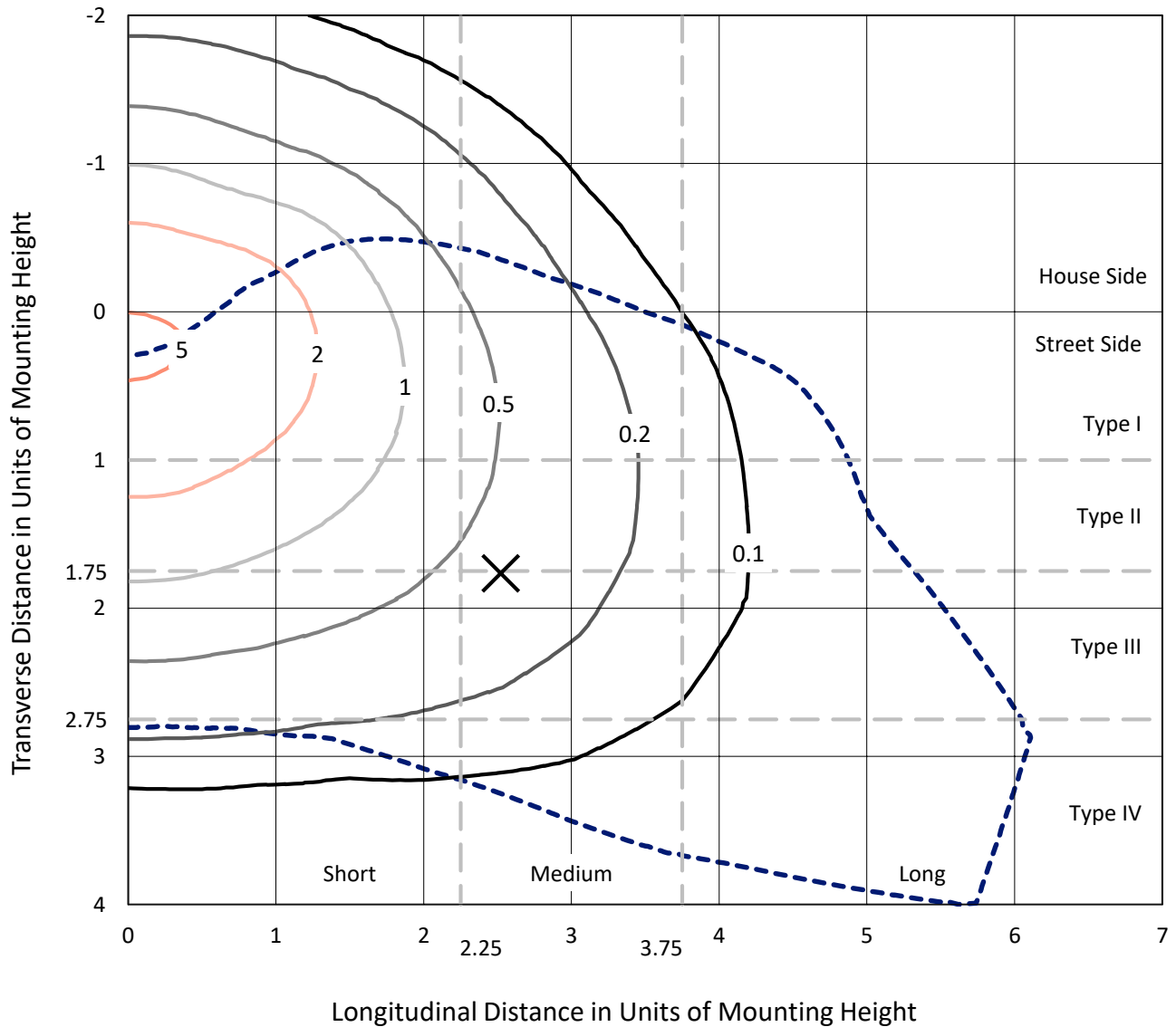
Input Watts (W): 123.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

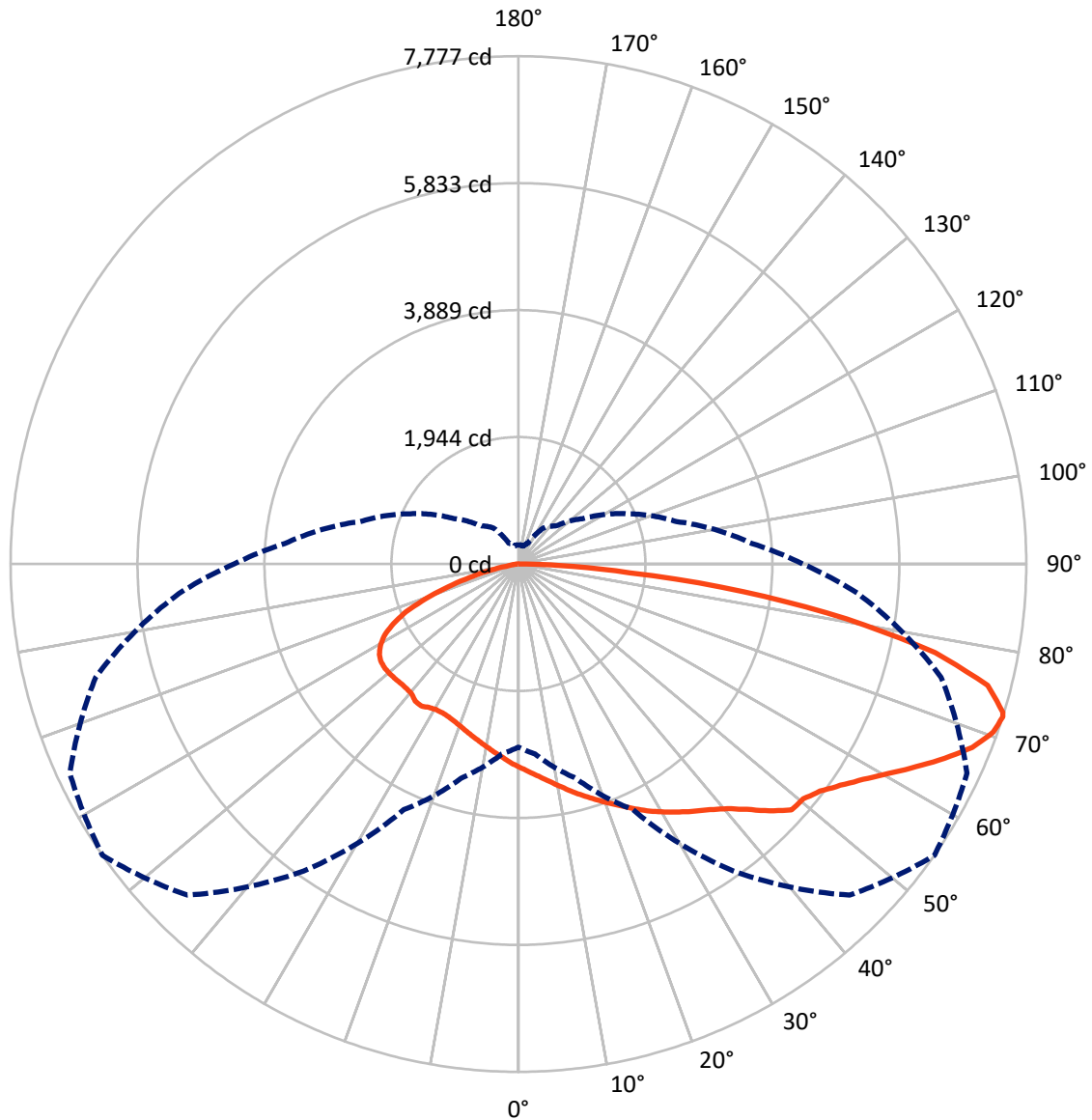
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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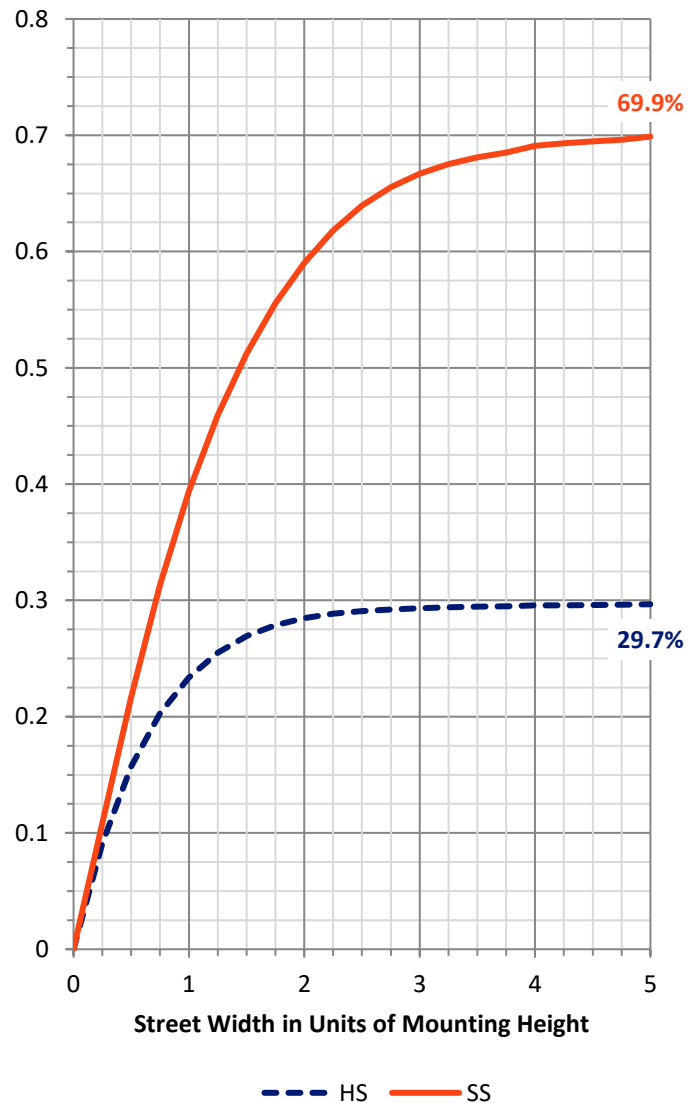
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5722.5	0.0	5722.5
	% Fixture	29.9	0.0	29.9
<b>Street Side</b>	Lumens	13446.5	0.0	13446.5
	% Fixture	70.1	0.0	70.1
<b>Total</b>	Lumens	19169.0	0.0	19169.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	298.3	1.6
10°-20°	906.5	4.7
20°-30°	1550.0	8.1
30°-40°	2246.4	11.7
40°-50°	3013.7	15.7
50°-60°	3693.9	19.3
60°-70°	4129.9	21.5
70°-80°	2830.2	14.8
80°-90°	500.1	2.6
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°	19169.0	100.0
0°-180°	19169.0	100.0



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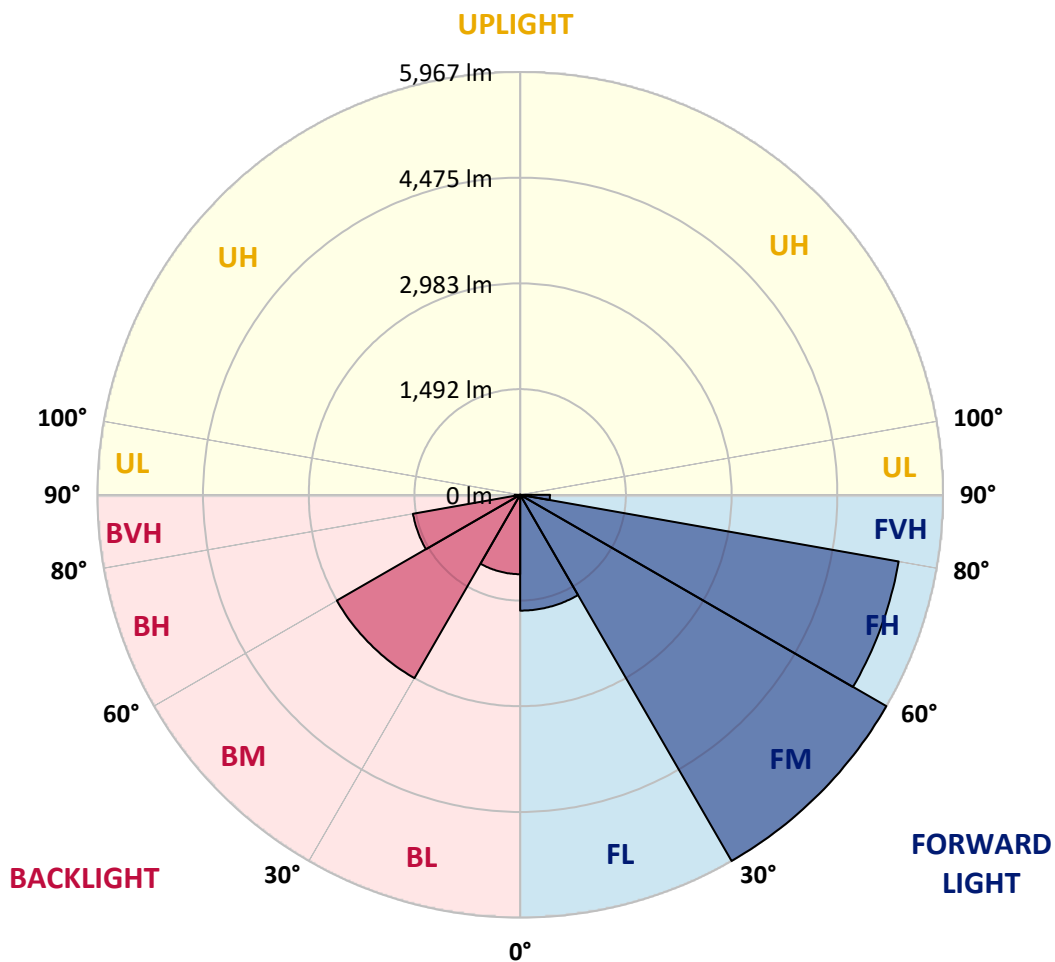
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1634.5	8.5			
FM (30°-60°)	5967.0	31.1			
FH (60°-80°)	5423.8	28.3			G3/7500
FVH (80°-90°)	421.2	2.2			G3/500
BL (0°-30°)	1120.3	5.8	B3/2500		
BM (30°-60°)	2987.1	15.6	B3/5000		
BH (60°-80°)	1536.3	8.0	B3/2500		G3/2500
BVH (80°-90°)	78.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3115.5	3115.5	3115.5	3115.5	3115.5	3115.5	3115.5	3115.5	3115.5	3115.5	3115.5
2.5°	3233.3	3221.0	3221.6	3217.1	3204.7	3193.5	3185.6	3164.9	3149.2	3131.8	3120.0
5°	3361.8	3349.5	3340.0	3329.9	3315.3	3293.4	3265.9	3231.7	3194.6	3156.5	3133.5
7.5°	3487.0	3475.8	3464.5	3449.4	3428.6	3396.1	3355.7	3306.3	3250.2	3191.3	3158.1
10°	3604.8	3599.2	3589.7	3568.9	3543.1	3506.6	3458.4	3396.1	3320.3	3241.2	3193.5
12.5°	3714.8	3718.2	3710.3	3692.9	3664.3	3619.4	3566.1	3490.9	3402.8	3295.1	3238.4
15°	3831.5	3821.4	3818.1	3804.6	3783.3	3738.4	3677.2	3589.7	3493.1	3368.0	3295.1
17.5°	3938.7	3926.9	3923.6	3910.1	3880.3	3846.1	3787.8	3695.7	3587.4	3442.6	3365.2
20°	4030.7	4028.5	4020.6	4014.5	3988.1	3950.5	3901.7	3816.4	3696.3	3542.0	3444.3
22.5°	4132.3	4120.0	4123.3	4105.9	4089.1	4067.2	4025.1	3944.3	3813.0	3640.7	3535.2
25°	4214.8	4208.1	4205.8	4198.0	4192.3	4185.6	4153.6	4081.2	3937.0	3756.9	3636.2
27.5°	4277.1	4272.6	4287.7	4286.6	4307.4	4307.9	4286.1	4208.6	4073.4	3871.4	3742.3
30°	4339.9	4338.8	4365.7	4383.1	4405.6	4425.2	4406.7	4341.0	4198.5	3998.2	3862.4
32.5°	4415.1	4411.7	4442.6	4470.7	4504.3	4538.0	4527.3	4467.9	4336.6	4127.8	3982.5
35°	4490.9	4493.1	4526.8	4556.5	4605.3	4649.1	4648.6	4605.3	4480.8	4273.7	4117.7
37.5°	4579.0	4583.5	4606.5	4648.0	4706.9	4751.8	4771.4	4738.9	4628.9	4435.3	4282.7
40°	4792.2	4780.4	4834.3	4852.3	4881.4	4900.5	4924.6	4901.1	4810.2	4616.0	4474.0
42.5°	5008.8	5032.4	5096.9	5098.0	5125.0	5133.9	5135.1	5099.2	5006.6	4824.8	4653.0
45°	4988.0	5012.7	5109.8	5173.2	5305.7	5385.3	5391.0	5340.5	5240.0	4967.8	4724.9
47.5°	4990.3	5018.9	5101.4	5127.2	5295.0	5504.9	5630.0	5609.8	5448.2	5063.8	4820.3
50°	5058.8	5093.0	5171.5	5139.6	5255.7	5461.7	5651.9	5707.4	5515.5	5178.3	4942.0
52.5°	5171.5	5200.7	5287.1	5237.2	5318.6	5534.0	5779.8	5853.9	5681.6	5327.0	5066.6
55°	5293.3	5330.3	5407.2	5387.0	5469.5	5711.9	5983.0	6068.8	5887.0	5472.9	5173.8
57.5°	5439.2	5456.6	5558.7	5572.2	5673.8	5935.8	6222.6	6298.9	6084.5	5593.0	5255.7
60°	5525.1	5543.0	5673.8	5752.9	5932.5	6229.3	6513.3	6573.3	6289.4	5687.2	5306.8
62.5°	5642.9	5658.6	5754.0	5903.3	6214.7	6558.1	6835.3	6856.1	6491.4	5760.8	5305.1
65°	5684.4	5685.0	5788.2	6029.0	6443.1	6900.4	7173.7	7130.0	6677.1	5763.0	5220.4
67.5°	5136.8	5199.6	5387.6	5934.7	6591.8	7197.9	7494.1	7381.9	6792.7	5675.5	5025.1
70°	4133.4	4113.2	4396.6	5211.4	6384.2	7322.4	7714.1	7540.2	6792.1	5472.3	4690.6
72°	2804.6	2920.8	3396.1	4150.8	5737.7	7169.8	7777.0	7579.4	6702.4	5222.6	4352.8
72.5°	2528.0	2616.6	2994.8	3864.1	5573.9	7087.9	7756.8	7572.1	6664.2	5127.8	4246.2
75°	831.1	940.5	1339.5	2222.7	4141.8	6225.9	7420.6	7410.5	6278.1	4600.3	3656.4
77.5°	327.7	333.3	372.0	851.3	2476.9	4918.5	6523.4	6736.6	5181.1	3792.2	2887.1
80°	237.9	232.3	240.2	309.2	982.0	3244.6	5100.3	5287.7	3083.5	2550.4	2019.0
82.5°	163.9	161.6	165.0	196.4	408.0	1781.1	3475.2	3055.5	1104.3	1139.7	1150.9
85°	91.5	93.2	92.0	111.1	216.0	782.8	1713.2	1216.0	171.2	205.4	477.5
87.5°	34.2	34.8	35.9	40.4	75.2	217.7	618.9	198.1	29.2	29.2	75.8
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3115.5	3115.5	3115.5	3115.5	3115.5	3115.5	3115.5	3115.5	3115.5	3115.5
2.5°	3112.1	3090.8	3066.7	3051.0	3029.6	3019.0	3005.0	3005.0	2998.8	2993.7
5°	3113.3	3065.6	3017.9	2975.8	2942.7	2910.7	2884.3	2865.2	2862.4	2856.2
7.5°	3122.8	3051.5	2976.9	2911.8	2855.1	2804.1	2762.0	2738.4	2723.3	2712.6
10°	3143.6	3045.9	2943.8	2847.3	2764.8	2699.1	2645.3	2617.2	2600.4	2596.4
12.5°	3176.7	3045.4	2912.4	2790.6	2685.1	2606.5	2550.4	2513.4	2500.5	2490.9
15°	3215.9	3053.2	2888.2	2736.7	2612.1	2519.6	2461.8	2423.6	2404.5	2400.6
17.5°	3269.8	3072.8	2869.2	2686.2	2543.1	2440.4	2379.3	2340.6	2323.2	2320.3
20°	3336.6	3099.8	2856.8	2641.3	2483.1	2374.2	2302.4	2261.4	2246.8	2246.8
22.5°	3413.5	3137.4	2851.8	2602.0	2427.0	2310.8	2236.2	2198.6	2189.6	2186.2
25°	3496.5	3190.1	2860.2	2574.0	2375.9	2254.7	2180.6	2141.3	2125.6	2123.4
27.5°	3593.0	3253.0	2882.1	2558.3	2338.3	2201.4	2129.0	2081.9	2067.8	2061.1
30°	3699.7	3328.7	2920.8	2561.6	2318.1	2162.1	2070.1	2028.6	2007.8	1999.9
32.5°	3819.2	3423.0	2984.2	2589.1	2315.9	2131.8	2022.9	1966.3	1943.8	1942.1
35°	3951.0	3541.4	3079.6	2636.3	2314.7	2093.6	1967.9	1909.0	1895.6	1896.1
37.5°	4122.2	3695.7	3166.0	2627.3	2241.8	2019.0	1905.7	1866.9	1855.2	1853.5
40°	4297.8	3786.6	3141.9	2572.3	2181.2	1957.3	1859.1	1828.8	1823.2	1819.8
42.5°	4398.8	3791.1	3154.8	2562.2	2145.8	1921.9	1824.3	1795.7	1786.7	1783.9
45°	4452.2	3859.0	3213.1	2566.1	2122.8	1893.9	1790.6	1760.3	1744.6	1741.2
47.5°	4557.1	3946.6	3273.7	2577.4	2108.8	1856.3	1754.2	1719.9	1703.6	1704.2
50°	4667.6	4027.9	3322.0	2589.1	2092.5	1823.2	1715.4	1675.6	1663.8	1659.3
52.5°	4765.3	4091.3	3344.4	2592.5	2072.3	1788.9	1668.9	1624.0	1609.4	1606.0
55°	4838.8	4121.6	3333.2	2583.5	2043.7	1744.0	1614.4	1560.6	1542.6	1539.2
57.5°	4882.6	4106.5	3273.7	2539.2	1997.1	1688.5	1543.7	1474.7	1451.1	1447.8
60°	4876.4	4020.6	3149.2	2450.5	1922.5	1598.7	1426.4	1347.3	1316.5	1311.4
62.5°	4804.6	3859.6	2981.9	2323.7	1803.5	1448.9	1274.4	1178.4	1130.2	1115.0
65°	4651.4	3621.7	2772.1	2116.1	1595.9	1250.2	1073.5	959.6	829.9	799.6
67.5°	4389.9	3295.1	2484.8	1870.9	1340.6	1047.1	881.6	605.5	473.6	443.9
70°	3974.1	2851.2	2130.7	1512.9	1039.2	832.2	597.1	335.6	327.1	328.3
72°	3589.7	2508.3	1820.9	1213.8	828.8	676.2	358.0	283.9	293.5	289.6
72.5°	3476.3	2411.8	1755.3	1132.4	777.2	640.3	318.7	275.0	280.6	285.1
75°	2928.1	1883.8	1263.1	776.1	576.3	428.2	236.8	234.0	241.3	243.0
77.5°	2218.2	1342.8	810.9	492.1	383.8	244.1	189.7	189.7	197.0	198.1
80°	1458.4	828.3	337.8	194.7	241.3	161.0	140.3	143.7	152.1	155.4
82.5°	922.5	446.7	101.0	102.1	122.9	105.5	94.8	98.8	106.1	106.6
85°	449.5	91.5	54.4	55.6	56.7	57.2	49.4	52.7	54.4	52.7
87.5°	110.5	23.0	20.8	22.4	18.0	15.2	15.2	12.9	9.0	9.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)