

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: P395127

Luminaire Tested: **LAS100S-T4-Switch-3**

Issue Date: 5/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395127  
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-3  
Description: AREA SITE LARGE HOUSING, TYPE IV, WATTAGE SWITCH ON POSTION 3  
Light Source: (288) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24090 lumens  
Efficiency: N/A  
Efficacy: 148.0 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 - G4

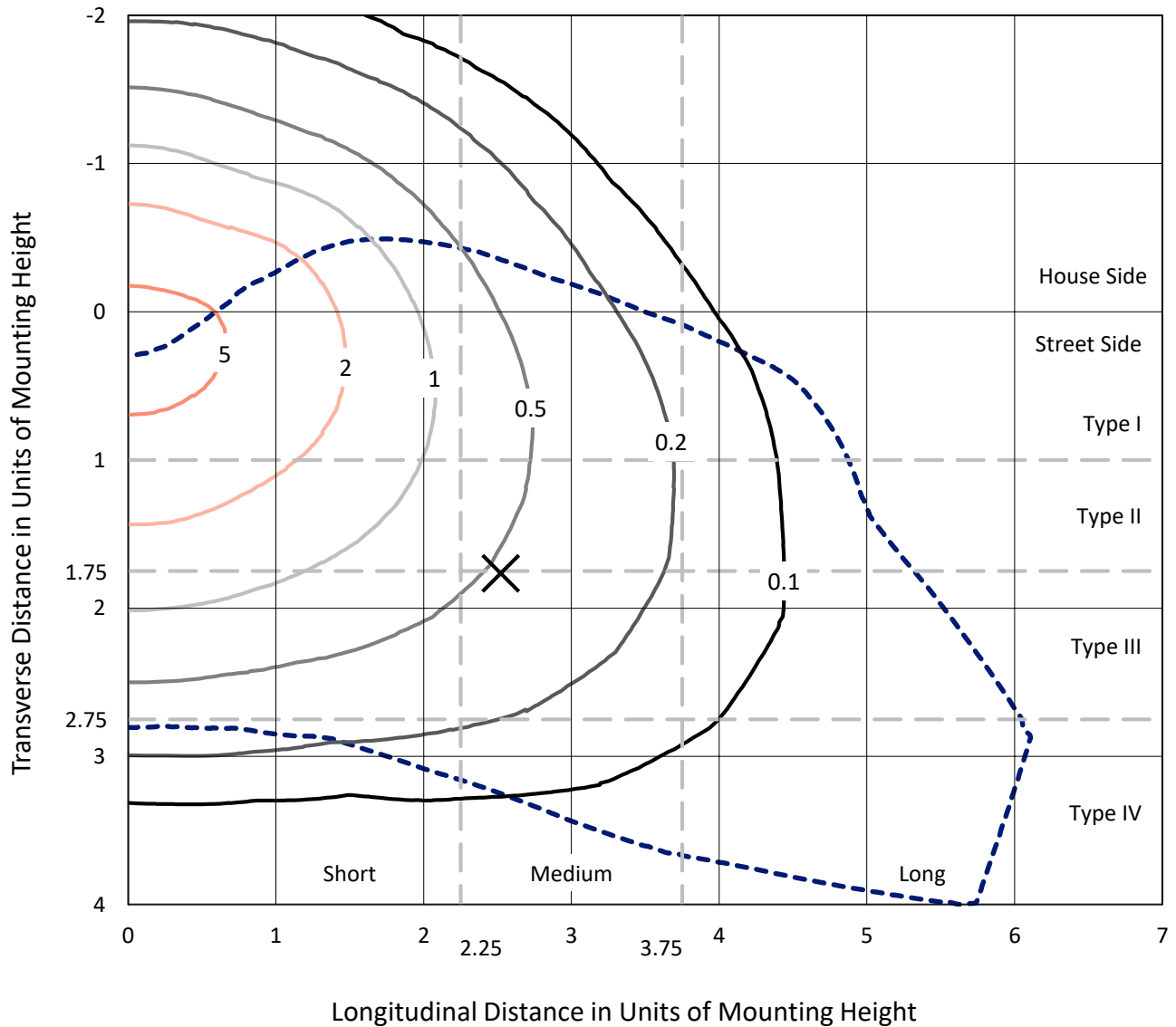
Input Watts (W): 162.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

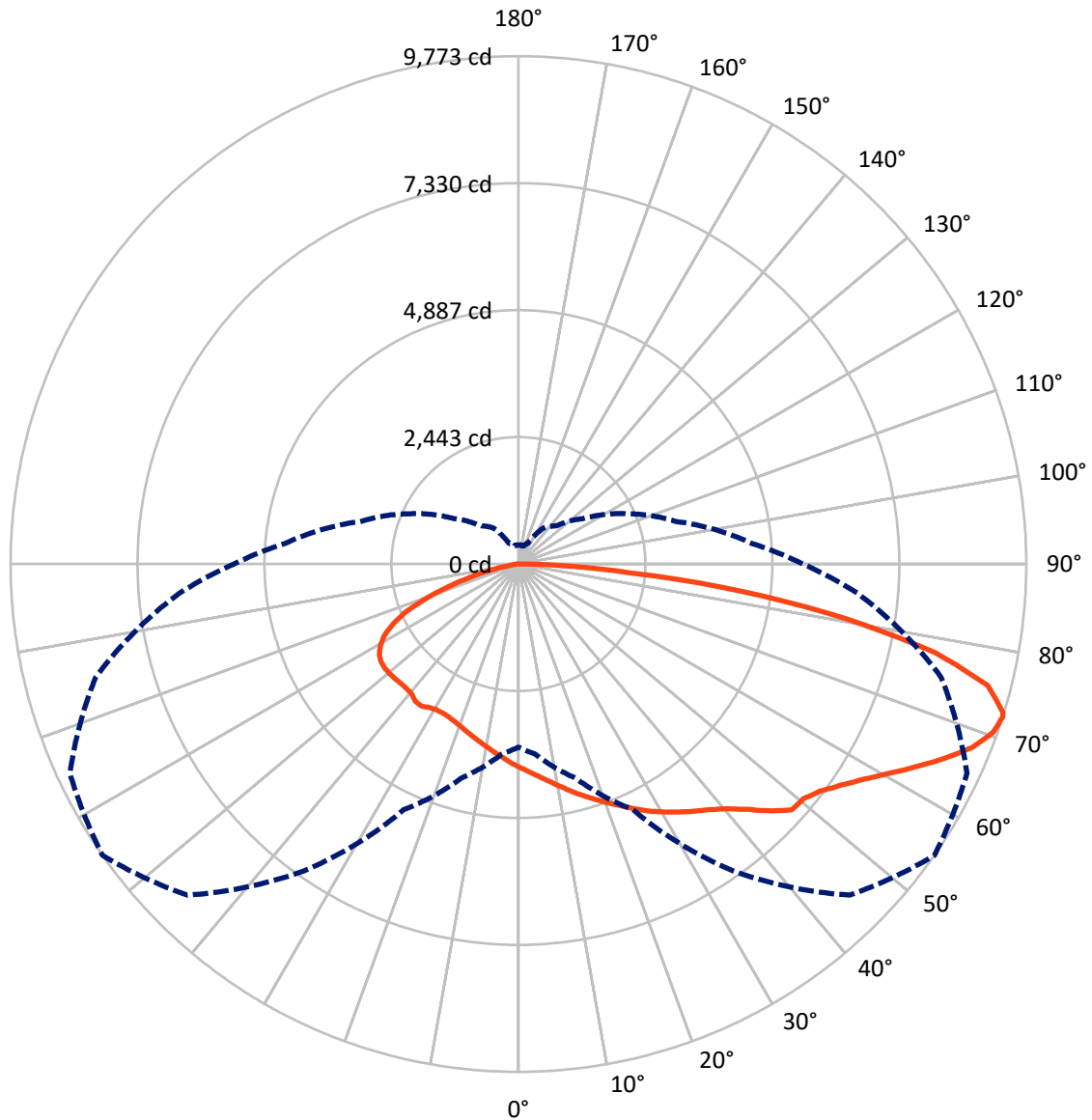
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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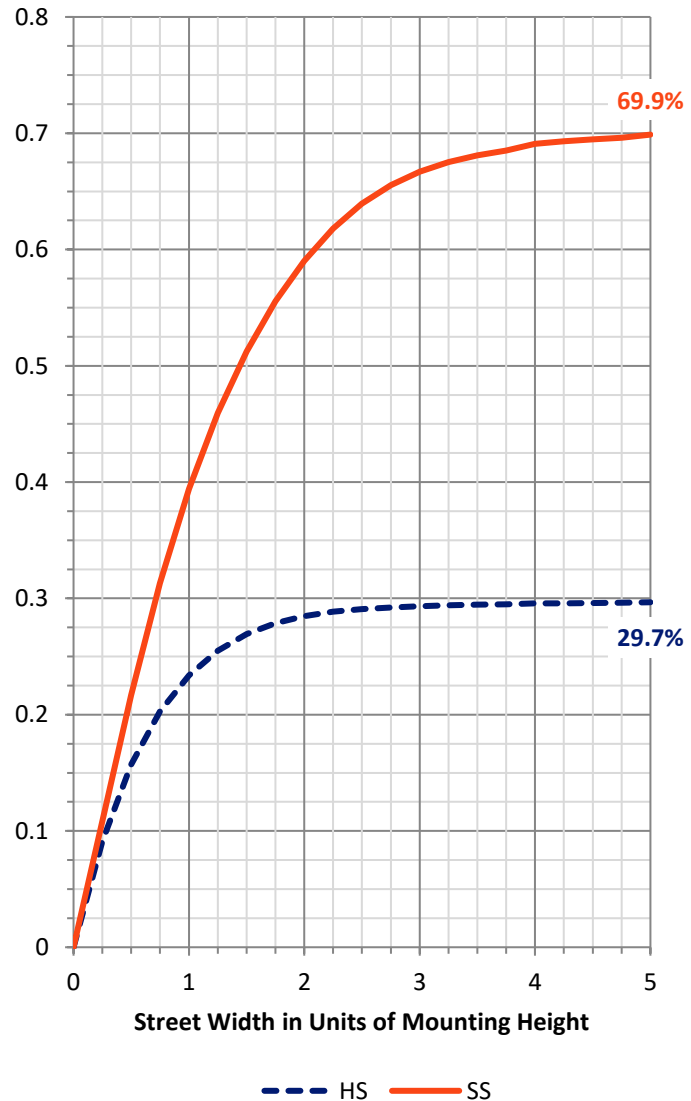
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7191.6	0.0	7191.6
	% Fixture	29.9	0.0	29.9
<b>Street Side</b>	Lumens	16898.4	0.0	16898.4
	% Fixture	70.1	0.0	70.1
<b>Total</b>	Lumens	24090.0	0.0	24090.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	374.9	1.6
10°-20°	1139.2	4.7
20°-30°	1947.8	8.1
30°-40°	2823.1	11.7
40°-50°	3787.4	15.7
50°-60°	4642.2	19.3
60°-70°	5190.2	21.5
70°-80°	3556.7	14.8
80°-90°	628.4	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°	24090.0	100.0
0°-180°	24090.0	100.0



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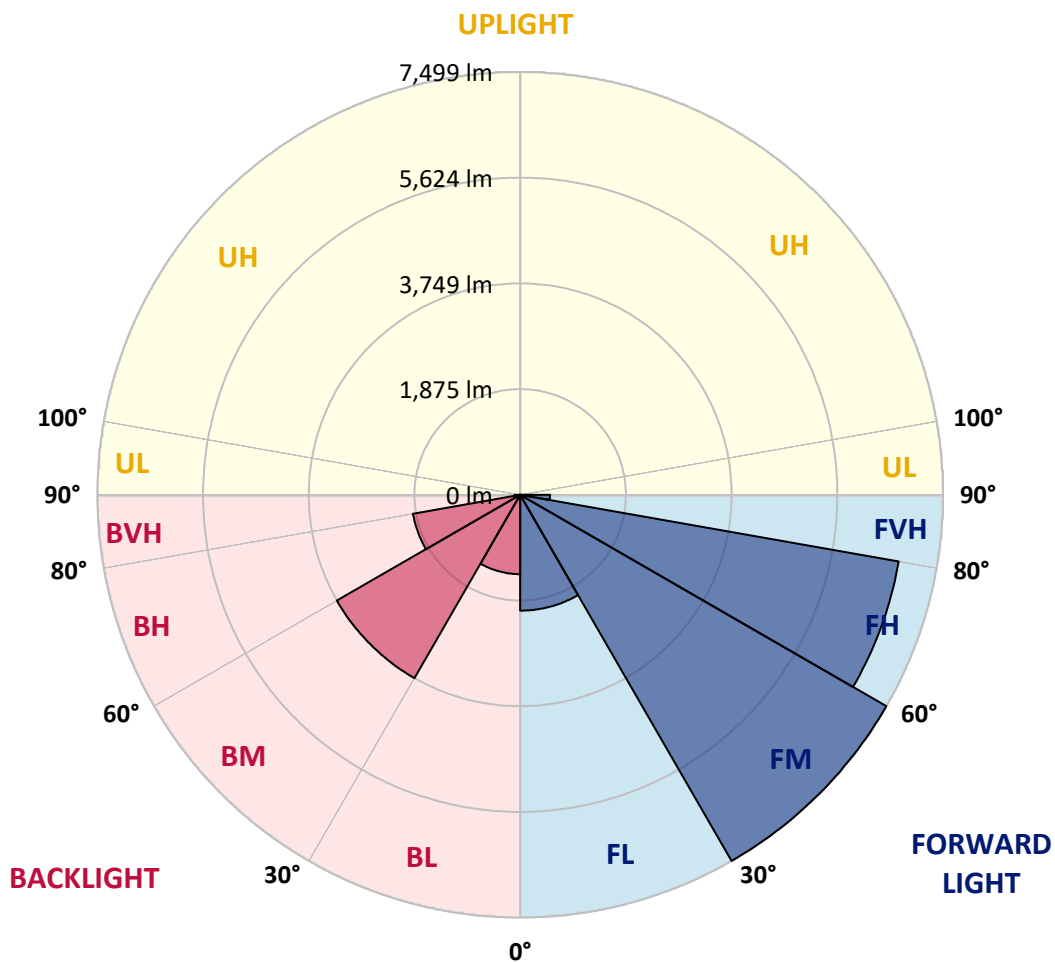
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2054.1	8.5			
FM	(30°-60°)	7498.8	31.1			
FH	(60°-80°)	6816.2	28.3			G3/7500
FVH	(80°-90°)	529.3	2.2			G4/750
BL	(0°-30°)	1407.9	5.8	B3/2500		
BM	(30°-60°)	3754.0	15.6	B3/5000		
BH	(60°-80°)	1930.6	8.0	B3/2500		G3/2500
BVH	(80°-90°)	99.1	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-G4**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3
2.5°	4063.4	4047.9	4048.6	4042.9	4027.4	4013.3	4003.4	3977.4	3957.6	3935.7	3920.9
5°	4224.9	4209.4	4197.4	4184.7	4166.3	4138.8	4104.3	4061.3	4014.7	3966.8	3937.9
7.5°	4382.1	4368.0	4353.9	4334.9	4308.8	4267.9	4217.1	4155.1	4084.5	4010.5	3968.9
10°	4530.2	4523.2	4511.2	4485.1	4452.7	4406.8	4346.2	4267.9	4172.7	4073.3	4013.3
12.5°	4668.5	4672.7	4662.8	4641.0	4605.0	4548.6	4481.6	4387.1	4276.4	4141.0	4069.7
15°	4815.1	4802.4	4798.2	4781.3	4754.5	4698.1	4621.2	4511.2	4389.9	4232.6	4141.0
17.5°	4949.8	4935.0	4930.8	4913.9	4876.5	4833.5	4760.1	4644.5	4508.4	4326.4	4229.1
20°	5065.5	5062.7	5052.8	5045.0	5011.9	4964.6	4903.3	4796.1	4645.2	4451.3	4328.5
22.5°	5193.1	5177.6	5181.8	5160.0	5138.8	5111.3	5058.4	4956.9	4791.9	4575.4	4442.8
25°	5296.8	5288.3	5285.5	5275.6	5268.6	5260.1	5219.9	5129.0	4947.7	4721.3	4569.7
27.5°	5375.1	5369.4	5388.5	5387.1	5413.2	5413.9	5386.4	5289.0	5119.1	4865.2	4703.0
30°	5454.1	5452.6	5486.5	5508.4	5536.6	5561.2	5538.0	5455.5	5276.3	5024.6	4853.9
32.5°	5548.5	5544.3	5583.1	5618.4	5660.7	5703.0	5689.6	5614.8	5449.8	5187.5	5004.8
35°	5643.8	5646.6	5688.9	5726.3	5787.6	5842.6	5841.9	5787.6	5631.1	5370.8	5174.8
37.5°	5754.5	5760.1	5789.0	5841.2	5915.3	5971.7	5996.4	5955.5	5817.2	5573.9	5382.1
40°	6022.4	6007.6	6075.3	6097.9	6134.6	6158.6	6188.9	6159.3	6045.0	5801.0	5622.6
42.5°	6294.7	6324.3	6405.4	6406.8	6440.6	6451.9	6453.3	6408.2	6291.8	6063.3	5847.6
45°	6268.6	6299.6	6421.6	6501.3	6667.7	6767.8	6774.9	6711.4	6585.2	6243.2	5937.8
47.5°	6271.4	6307.3	6411.0	6443.5	6654.3	6918.1	7075.3	7049.9	6846.8	6363.8	6057.7
50°	6357.4	6400.4	6499.2	6459.0	6604.9	6863.8	7102.8	7172.6	6931.5	6507.6	6210.7
52.5°	6499.2	6535.8	6644.4	6581.7	6683.9	6954.7	7263.6	7356.7	7140.2	6694.5	6367.3
55°	6652.2	6698.7	6795.4	6770.0	6873.6	7178.3	7518.9	7626.8	7398.3	6877.9	6502.0
57.5°	6835.5	6857.4	6985.8	7002.7	7130.3	7459.7	7820.0	7915.9	7646.5	7028.8	6604.9
60°	6943.4	6966.0	7130.3	7229.8	7455.4	7828.5	8185.3	8260.8	7903.9	7147.2	6669.1
62.5°	7091.5	7111.3	7231.2	7418.8	7810.1	8241.7	8590.1	8616.2	8157.8	7239.6	6667.0
65°	7143.7	7144.4	7274.2	7576.7	8097.2	8671.9	9015.3	8960.3	8391.2	7242.5	6560.5
67.5°	6455.4	6534.4	6770.7	7458.2	8284.0	9045.7	9418.0	9277.0	8536.5	7132.4	6315.1
70°	5194.5	5169.1	5525.3	6549.2	8023.1	9202.2	9694.4	9475.8	8535.8	6877.2	5894.8
72°	3524.6	3670.6	4267.9	5216.4	7210.7	9010.4	9773.4	9525.2	8423.0	6563.3	5470.3
72.5°	3176.9	3288.4	3763.7	4856.0	7004.8	8907.4	9748.0	9516.0	8375.0	6444.2	5336.3
75°	1044.4	1181.9	1683.3	2793.3	5205.1	7824.2	9325.6	9312.9	7889.8	5781.3	4595.1
77.5°	411.8	418.9	467.6	1069.8	3112.8	6181.1	8198.0	8466.0	6511.2	4765.8	3628.3
80°	299.0	292.0	301.8	388.6	1234.1	4077.5	6409.6	6645.1	3875.1	3205.2	2537.3
82.5°	205.9	203.1	207.3	246.8	512.7	2238.3	4367.3	3839.8	1387.8	1432.3	1446.4
85°	114.9	117.1	115.7	139.6	271.5	983.8	2153.0	1528.2	215.1	258.1	600.1
87.5°	43.0	43.7	45.1	50.8	94.5	273.6	777.8	248.9	36.7	36.7	95.2
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°	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3
2.5°	3911.1	3884.3	3853.9	3834.2	3807.4	3794.0	3776.4	3776.4	3768.6	3762.3
5°	3912.5	3852.5	3792.6	3739.7	3698.1	3657.9	3624.8	3600.8	3597.2	3589.5
7.5°	3924.5	3834.9	3741.1	3659.3	3588.1	3523.9	3471.0	3441.4	3422.4	3409.0
10°	3950.6	3827.9	3699.5	3578.2	3474.5	3392.0	3324.3	3289.1	3267.9	3263.0
12.5°	3992.2	3827.1	3660.0	3507.0	3374.4	3275.7	3205.2	3158.6	3142.4	3130.4
15°	4041.5	3837.0	3629.7	3439.3	3282.7	3166.4	3093.7	3045.8	3021.8	3016.9
17.5°	4109.2	3861.7	3605.7	3375.8	3196.0	3066.9	2990.1	2941.4	2919.5	2916.0
20°	4193.1	3895.6	3590.2	3319.4	3120.5	2983.7	2893.5	2842.0	2823.6	2823.6
22.5°	4289.8	3942.8	3583.8	3270.0	3050.0	2904.0	2810.2	2763.0	2751.7	2747.5
25°	4394.1	4009.1	3594.4	3234.8	2985.8	2833.5	2740.4	2691.1	2671.3	2668.5
27.5°	4515.4	4088.1	3621.9	3215.0	2938.6	2766.5	2675.5	2616.3	2598.7	2590.2
30°	4649.4	4183.3	3670.6	3219.3	2913.2	2717.2	2601.5	2549.3	2523.2	2513.3
32.5°	4799.6	4301.7	3750.3	3253.8	2910.4	2679.1	2542.3	2471.0	2442.8	2440.7
35°	4965.3	4450.5	3870.2	3313.1	2909.0	2631.1	2473.2	2399.1	2382.2	2382.9
37.5°	5180.4	4644.5	3978.8	3301.8	2817.3	2537.3	2394.9	2346.2	2331.4	2329.3
40°	5401.2	4758.7	3948.4	3232.7	2741.1	2459.8	2336.3	2298.3	2291.2	2287.0
42.5°	5528.1	4764.4	3964.7	3220.0	2696.7	2415.3	2292.6	2256.7	2245.4	2241.8
45°	5595.1	4849.7	4038.0	3224.9	2667.8	2380.1	2250.3	2212.2	2192.5	2188.2
47.5°	5727.0	4959.7	4114.2	3239.0	2650.2	2332.8	2204.5	2161.5	2141.0	2141.7
50°	5865.9	5062.0	4174.8	3253.8	2629.7	2291.2	2155.8	2105.7	2090.9	2085.3
52.5°	5988.6	5141.6	4203.0	3258.0	2604.3	2248.2	2097.3	2040.9	2022.5	2018.3
55°	6081.0	5179.7	4188.9	3246.8	2568.4	2191.8	2028.9	1961.2	1938.6	1934.4
57.5°	6136.0	5160.7	4114.2	3191.1	2509.8	2122.0	1940.0	1853.3	1823.7	1819.4
60°	6128.2	5052.8	3957.6	3079.6	2416.0	2009.1	1792.6	1693.2	1654.4	1648.1
62.5°	6038.0	4850.4	3747.5	2920.3	2266.5	1820.8	1601.5	1480.9	1420.3	1401.2
65°	5845.4	4551.4	3483.7	2659.3	2005.6	1571.2	1349.1	1205.9	1043.0	1004.9
67.5°	5516.8	4141.0	3122.6	2351.2	1684.7	1315.9	1107.9	760.9	595.2	557.8
70°	4994.3	3583.1	2677.7	1901.2	1306.0	1045.8	750.3	421.7	411.1	412.5
72°	4511.2	3152.3	2288.4	1525.4	1041.6	849.8	449.9	356.8	368.8	363.9
72.5°	4368.7	3031.0	2205.9	1423.1	976.7	804.6	400.6	345.6	352.6	358.2
75°	3679.8	2367.4	1587.4	975.3	724.2	538.1	297.6	294.1	303.2	305.4
77.5°	2787.7	1687.6	1019.0	618.5	482.4	306.8	238.4	238.4	247.5	248.9
80°	1832.8	1040.9	424.5	244.7	303.2	202.4	176.3	180.5	191.1	195.3
82.5°	1159.4	561.3	126.9	128.3	154.4	132.6	119.2	124.1	133.3	134.0
85°	564.9	114.9	68.4	69.8	71.2	71.9	62.1	66.3	68.4	66.3
87.5°	138.9	28.9	26.1	28.2	22.6	19.0	19.0	16.2	11.3	12.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)