

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: EPHESUS

Report Number: P628132

Luminaire Tested: **EPH-VN-03-E-740-U-T1**

Issue Date: 01/09/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P628132  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/09/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-03-E-740-U-T1  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Type I distribution lens  
Light Source: (48) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27378 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

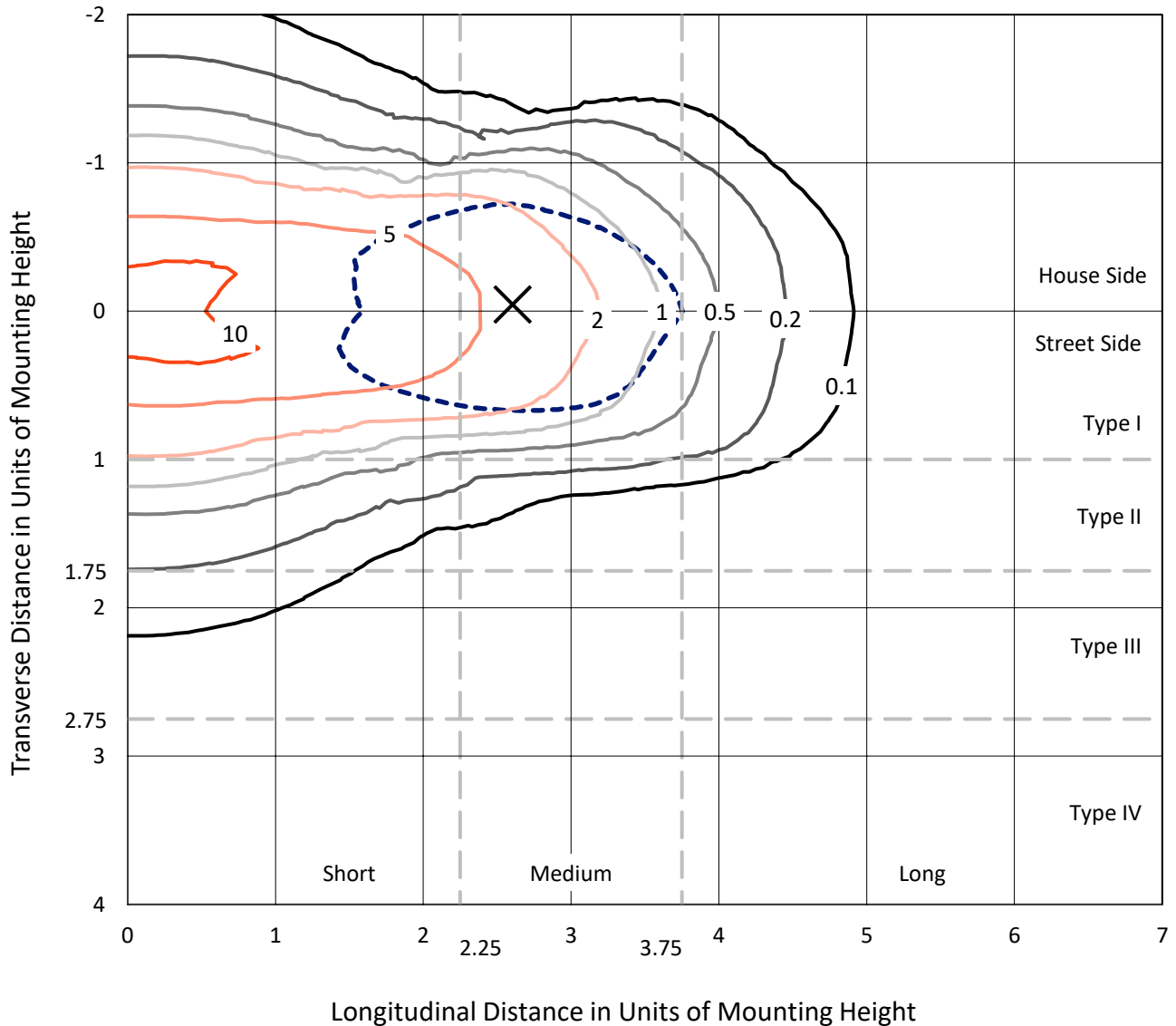
Input Watts (W): 232.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

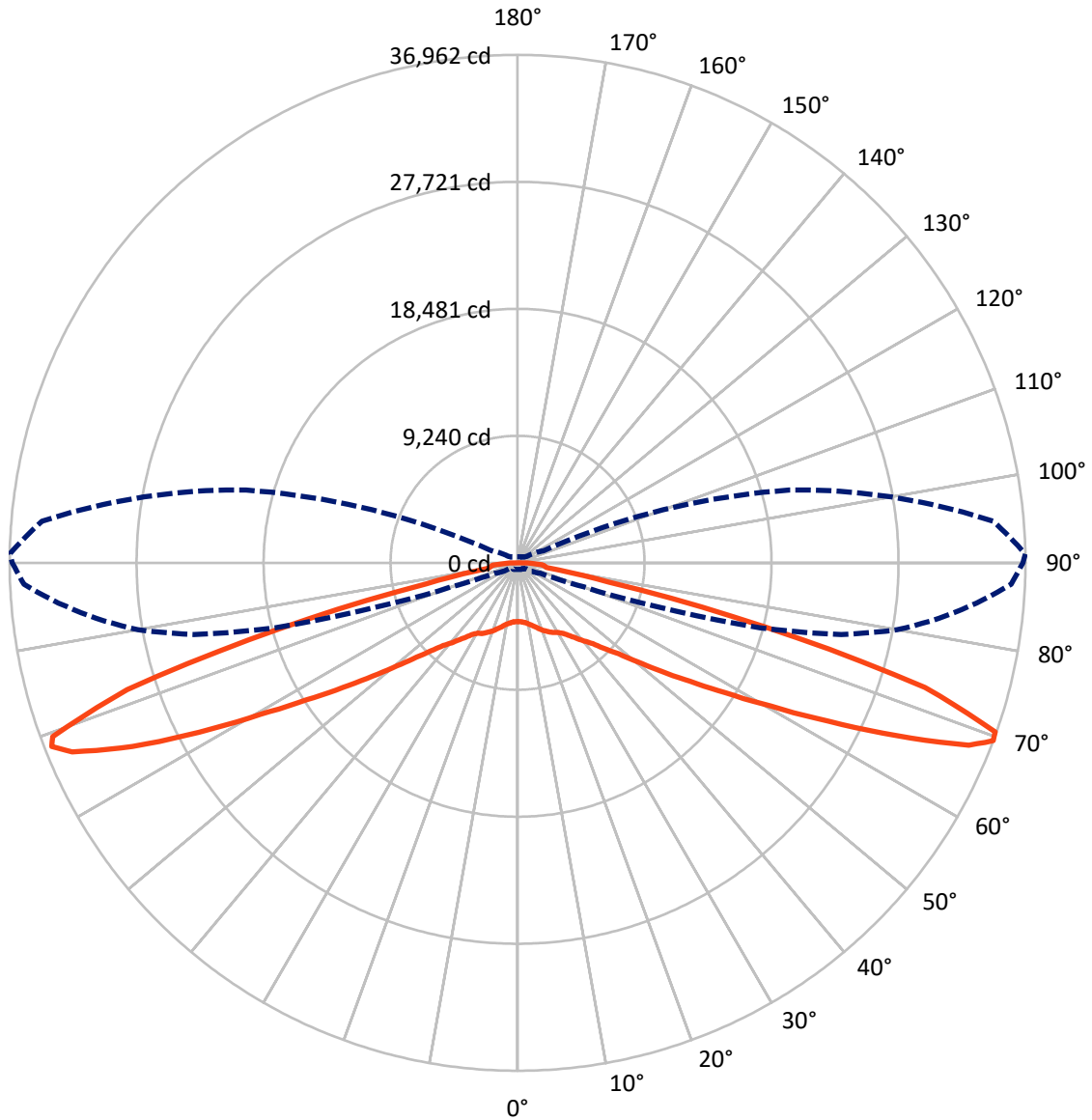
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.7 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 91-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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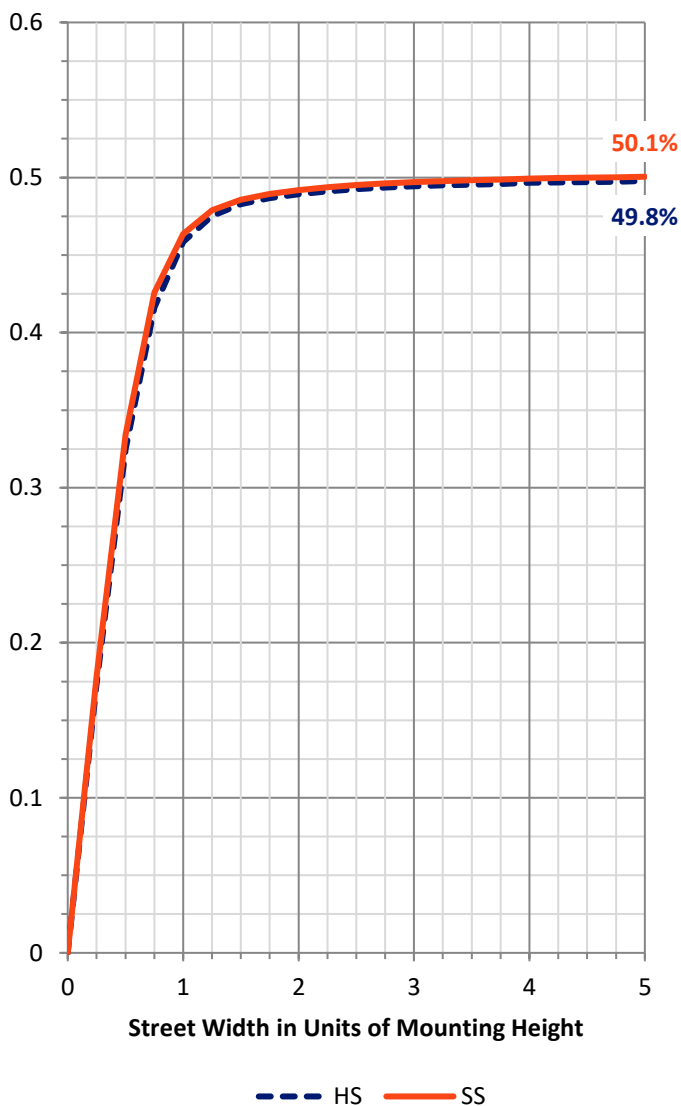
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13725.9	0.0	13725.9
	% Fixture	50.1	0.0	50.1
<b>Street Side</b>	Lumens	13652.2	0.0	13652.2
	% Fixture	49.9	0.0	49.9
<b>Total</b>	Lumens	27378.0	0.0	27378.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	431.3	1.6
10°-20°	1412.2	5.2
20°-30°	2421.8	8.8
30°-40°	3345.5	12.2
40°-50°	4301.4	15.7
50°-60°	5351.8	19.5
60°-70°	6563.8	24.0
70°-80°	3237.9	11.8
80°-90°	312.3	1.1
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°	27378.0	100.0
0°-180°	27378.0	100.0

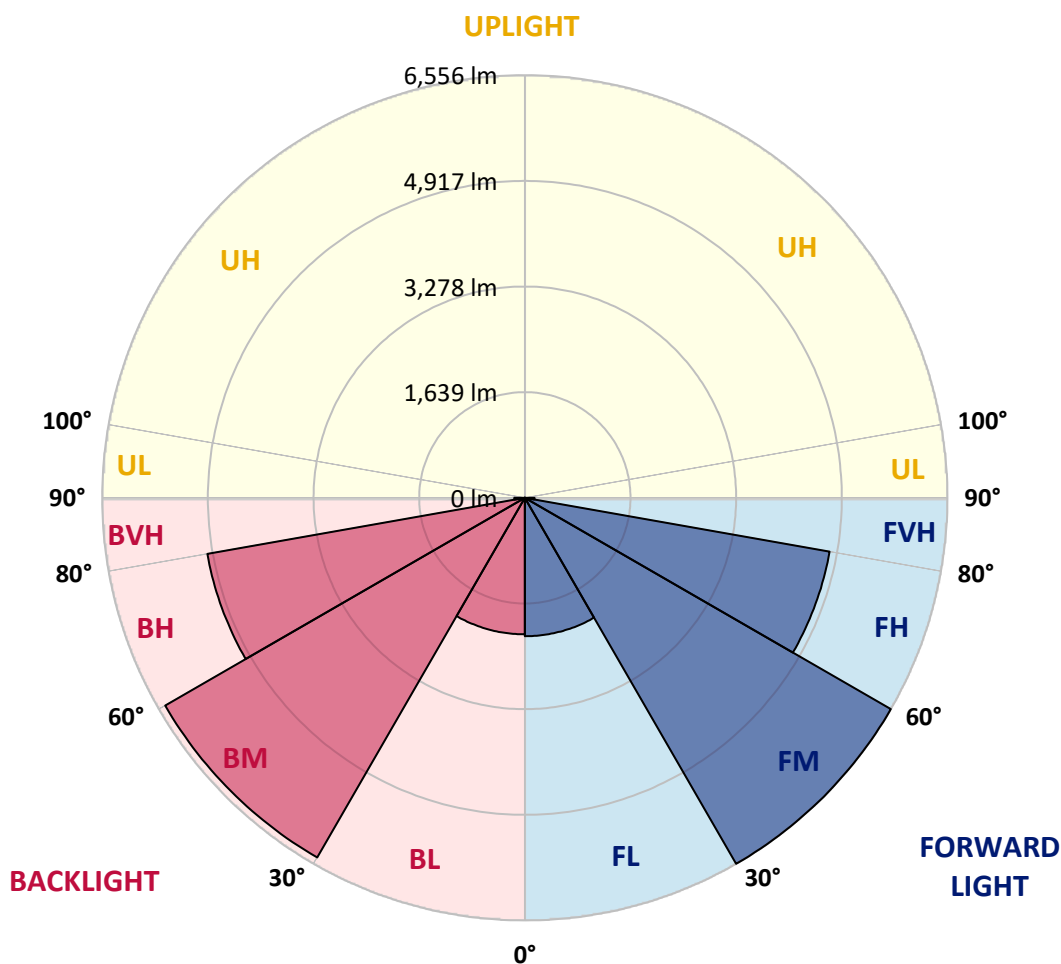


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2146.9	7.8			
FM (30°-60°)	6556.1	23.9			
FH (60°-80°)	4801.0	17.5			G2/5000
FVH (80°-90°)	148.1	0.5			G2/225
BL (0°-30°)	2118.3	7.7	B3/2500		
BM (30°-60°)	6442.5	23.5	B4/8500		
BH (60°-80°)	5000.8	18.3	B5		G5
BVH (80°-90°)	164.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67.5°	70°
0°	4294.8	4294.8	4294.8	4294.8	4294.8	4294.8	4294.8	4294.8	4294.8	4294.8
2.5°	4332.8	4370.8	4338.6	4353.3	4370.8	4362.0	4356.2	4315.3	4329.9	4312.4
5°	4484.7	4511.0	4490.6	4487.7	4470.1	4467.2	4449.7	4385.4	4414.6	4373.7
7.5°	4616.2	4642.5	4616.2	4625.0	4630.8	4613.3	4598.7	4528.6	4534.4	4508.1
10°	4712.6	4753.5	4724.3	4782.7	4782.7	4806.1	4785.7	4683.4	4686.3	4654.2
12.5°	4776.9	4826.6	4814.9	4911.3	4961.0	4972.6	4996.0	4908.4	4902.5	4841.2
15°	4730.2	4738.9	4800.3	4949.3	5121.7	5203.5	5244.4	5142.1	5147.9	5077.8
17.5°	4581.1	4610.4	4668.8	4928.8	5147.9	5390.4	5472.2	5413.8	5402.1	5323.2
20°	4417.5	4423.4	4519.8	4817.8	5156.7	5504.4	5746.9	5700.1	5697.2	5647.5
22.5°	4213.0	4215.9	4350.3	4680.5	5130.4	5557.0	5992.3	6053.7	6012.8	5966.0
25°	3958.8	3991.0	4148.7	4519.8	5039.8	5612.5	6135.5	6337.1	6322.4	6278.6
27.5°	3719.3	3742.6	3915.0	4291.9	4847.0	5530.7	6342.9	6696.4	6658.4	6588.3
30°	3503.1	3541.0	3719.3	4058.2	4607.4	5428.4	6480.2	6991.5	7035.3	6956.4
32.5°	3269.3	3316.1	3503.1	3853.7	4385.4	5332.0	6597.1	7339.2	7447.3	7356.7
35°	3035.6	3070.7	3257.6	3634.5	4224.7	5118.7	6620.5	7789.1	7923.5	7873.8
37.5°	2831.1	2863.2	3047.3	3406.6	4008.5	4961.0	6567.9	8163.1	8405.6	8540.0
40°	2603.2	2644.1	2825.2	3187.5	3722.2	4727.2	6503.6	8580.9	8928.6	9106.8
42.5°	2349.0	2404.5	2579.8	2953.8	3500.1	4438.0	6310.8	8861.4	9401.9	9717.4
45°	2080.2	2121.1	2311.0	2655.8	3237.2	4102.0	6039.0	9203.2	9910.2	10494.6
47.5°	1755.9	1782.2	1975.0	2337.3	2869.1	3754.3	5694.3	9466.1	10480.0	11213.3
50°	1402.4	1428.7	1583.5	1948.7	2465.9	3321.9	5165.5	9577.2	10880.2	11908.6
52.5°	1095.6	1116.1	1238.8	1513.4	2004.3	2828.2	4546.1	9550.9	11134.4	12630.3
55°	853.1	870.7	958.3	1165.7	1536.8	2243.8	3897.5	9068.8	11213.3	13135.7
57.5°	733.3	742.1	783.0	902.8	1177.4	1700.4	3073.6	8221.5	10824.7	13477.6
60°	645.7	648.6	680.7	762.6	911.6	1265.1	2246.7	6868.8	9857.6	13261.4
62.5°	601.9	604.8	622.3	677.8	753.8	955.4	1592.3	5276.5	8142.6	12370.3
65°	563.9	566.8	581.4	616.5	648.6	765.5	1171.6	3479.7	5866.7	10079.7
67.5°	514.2	520.1	534.7	563.9	590.2	636.9	891.1	2243.8	3693.0	6962.3
69°	482.1	487.9	502.5	525.9	549.3	593.1	771.3	1791.0	2787.3	5118.7
70°	458.7	464.5	482.1	505.4	525.9	566.8	710.0	1589.4	2381.1	4166.3
72.5°	400.3	406.1	417.8	441.2	464.5	493.8	572.6	1136.5	1618.6	2559.4
75°	341.8	344.8	353.5	376.9	400.3	423.6	482.1	803.5	1075.2	1571.8
77.5°	265.9	268.8	280.5	306.8	321.4	353.5	409.0	558.0	704.1	914.5
80°	192.8	201.6	216.2	239.6	248.3	265.9	315.5	400.3	464.5	561.0
82.5°	131.5	137.3	151.9	172.4	178.2	178.2	225.0	295.1	330.1	365.2
85°	76.0	78.9	76.0	87.6	102.3	105.2	146.1	178.2	204.5	236.7
87.5°	23.4	23.4	23.4	29.2	35.1	38.0	64.3	81.8	102.3	122.7
90°	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):**

72.5°		75°	77.5°	80°	82.5°	85°	87.5°	90°	91°	95°
4294.8	0°	4294.8	4294.8	4294.8	4294.8	4294.8	4294.8	4294.8	4294.8	4294.8
4315.3	2.5°	4303.6	4338.6	4297.7	4294.8	4291.9	4271.5	4286.1	4283.1	4315.3
4391.2	5°	4364.9	4364.9	4341.6	4359.1	4353.3	4286.1	4347.4	4347.4	4379.6
4487.7	7.5°	4452.6	4458.4	4446.8	4438.0	4426.3	4376.6	4414.6	4408.8	4435.1
4665.9	10°	4622.0	4616.2	4563.6	4563.6	4551.9	4499.3	4522.7	4540.2	4589.9
4838.3	12.5°	4806.1	4768.1	4774.0	4753.5	4715.5	4625.0	4660.0	4663.0	4712.6
5080.7	15°	5007.7	4966.8	4949.3	4931.7	4893.8	4809.0	4858.7	4829.5	4864.5
5302.8	17.5°	5279.4	5226.8	5165.5	5118.7	5063.2	4996.0	5019.4	5042.8	5066.1
5592.0	20°	5580.4	5495.6	5425.5	5349.5	5302.8	5218.1	5247.3	5250.2	5276.5
5895.9	22.5°	5819.9	5746.9	5668.0	5612.5	5516.1	5431.3	5399.2	5405.1	5451.8
6208.5	25°	6132.5	6001.1	5922.2	5831.6	5746.9	5600.8	5586.2	5592.0	5668.0
6559.1	27.5°	6404.3	6296.2	6164.7	6027.4	5904.7	5787.8	5770.3	5749.8	5840.4
6880.5	30°	6757.8	6597.1	6386.7	6255.3	6050.7	5887.1	5863.8	5884.2	5936.8
7350.9	32.5°	7137.6	6968.1	6746.1	6576.6	6328.3	6138.4	6112.1	6132.5	6229.0
7835.9	35°	7695.6	7511.6	7242.8	6982.7	6746.1	6538.7	6524.0	6491.9	6620.5
8502.0	37.5°	8364.7	8119.3	7865.1	7575.8	7324.6	7032.4	6947.7	6974.0	7079.2
9147.7	40°	9118.5	8884.7	8566.3	8236.1	7929.4	7619.7	7497.0	7479.4	7663.5
9989.1	42.5°	9989.1	9828.4	9363.9	8972.4	8569.2	8180.6	8034.5	8043.3	8212.8
10927.0	45°	11005.9	10886.1	10474.1	9983.3	9510.0	9016.2	8919.8	8925.6	9153.5
11774.2	47.5°	12206.7	12282.6	11894.0	11376.9	10792.6	10196.6	9962.8	9904.4	10158.6
12829.0	50°	13422.1	13901.2	13609.0	13115.3	12425.8	11721.7	11420.7	11315.5	11680.8
13874.9	52.5°	14844.9	15616.2	15706.8	15327.0	14552.7	13568.1	13235.1	13127.0	13591.5
14929.6	55°	16320.3	17497.8	17938.9	17991.5	17068.3	15987.3	15359.1	15233.5	15961.0
15852.9	57.5°	17810.4	19589.7	20492.4	21027.1	20252.9	18847.6	17953.5	17819.1	19107.6
16589.1	60°	19341.3	21754.6	23203.7	24553.5	24106.5	22546.4	21164.4	21170.3	22934.9
16904.7	62.5°	20460.3	23495.9	25804.0	27980.6	28383.8	27297.0	25546.9	25368.7	27235.6
15963.9	65°	21056.3	25140.8	27974.8	30557.5	31962.8	31910.3	30484.5	30326.7	31699.9
13240.9	67.5°	20165.2	25202.1	28754.9	31325.9	33902.8	35325.7	35144.5	35416.2	34609.9
10491.6	69°	18266.2	24118.2	28059.5	30934.4	33537.6	35942.1	36763.1	36961.8	34741.3
8683.1	70°	16180.1	22771.3	26899.6	29675.2	32065.1	35053.9	36812.8	36874.1	33578.5
4890.8	72.5°	10097.2	17068.3	21129.4	23782.2	25263.5	28094.6	31057.1	31007.5	26563.6
2734.7	75°	5302.8	9834.3	13144.5	14491.4	15321.1	16776.1	18780.4	18529.1	15966.8
1399.5	77.5°	2360.7	4178.0	5326.2	6088.7	6302.0	6725.6	6924.3	6760.7	6418.9
753.8	80°	1145.3	1729.6	2249.7	2378.2	2226.3	2121.1	2170.8	2147.4	2349.0
435.3	82.5°	569.7	794.7	896.9	1075.2	1583.5	1945.8	2001.3	1978.0	1773.4
262.9	85°	303.9	365.2	420.7	771.3	1417.0	1776.4	1829.0	1820.2	1639.0
143.2	87.5°	169.5	210.4	303.9	616.5	856.0	905.7	955.4	926.2	952.5
0.0	90°	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):**

105°	115°		125°	135°	145°	155°	165°	175°	180°
4294.8	4294.8	0°	4294.8	4294.8	4294.8	4294.8	4294.8	4294.8	4294.8
4306.5	4344.5	2.5°	4321.1	4344.5	4356.2	4312.4	4338.6	4315.3	4321.1
4373.7	4423.4	5°	4394.2	4449.7	4440.9	4440.9	4446.8	4411.7	4426.3
4435.1	4508.1	7.5°	4540.2	4560.7	4607.4	4589.9	4572.4	4537.3	4543.2
4601.6	4671.7	10°	4738.9	4738.9	4768.1	4738.9	4683.4	4660.0	4654.2
4771.1	4902.5	12.5°	4931.7	4902.5	4920.1	4835.3	4771.1	4724.3	4747.7
4923.0	5074.9	15°	5104.1	5098.3	5034.0	4925.9	4768.1	4683.4	4689.2
5185.9	5320.3	17.5°	5361.2	5308.6	5139.2	4858.7	4663.0	4581.1	4540.2
5431.3	5586.2	20°	5615.4	5469.3	5127.5	4750.6	4490.6	4356.2	4359.1
5638.8	5860.8	22.5°	5837.5	5530.7	5086.6	4613.3	4332.8	4151.7	4148.7
5930.9	6147.2	25°	6050.7	5495.6	5004.8	4487.7	4157.5	3982.2	3958.8
6188.1	6468.5	27.5°	6217.3	5463.5	4806.1	4286.1	3917.9	3774.8	3760.2
6421.8	6822.1	30°	6322.4	5393.4	4627.9	4049.4	3695.9	3555.6	3549.8
6851.3	7123.0	32.5°	6442.2	5285.3	4394.2	3839.0	3500.1	3348.2	3339.4
7356.7	7567.1	35°	6553.3	5121.7	4204.3	3640.4	3295.6	3117.4	3091.1
7973.2	8069.6	37.5°	6576.6	4940.5	3967.6	3403.7	3041.4	2869.1	2866.1
8759.1	8504.9	40°	6579.6	4721.4	3716.3	3167.1	2793.1	2617.8	2606.1
9609.3	8873.0	42.5°	6462.7	4470.1	3465.1	2886.6	2536.0	2328.6	2313.9
10623.1	9323.0	45°	6193.9	4169.2	3143.7	2576.9	2252.6	2059.8	2036.4
11821.0	9729.1	47.5°	5834.5	3792.3	2819.4	2261.4	1931.2	1755.9	1741.3
13127.0	9992.0	50°	5349.5	3368.7	2427.9	1919.5	1606.9	1463.7	1428.7
14652.1	10027.1	52.5°	4747.7	2883.7	2018.9	1563.1	1308.9	1183.3	1162.8
16317.4	9734.9	55°	4029.0	2360.7	1612.8	1247.5	1016.7	920.3	902.8
17857.1	8995.8	57.5°	3228.4	1817.3	1241.7	964.1	815.1	747.9	727.5
19569.2	7619.7	60°	2413.3	1370.3	952.5	765.5	666.1	619.4	610.6
21097.2	5919.3	62.5°	1735.5	1031.3	747.9	639.8	584.3	561.0	555.1
21959.1	3976.4	65°	1276.8	794.7	622.3	578.5	537.6	517.1	508.4
21813.0	2603.2	67.5°	949.5	636.9	552.2	525.9	496.7	476.2	470.4
20442.8	2074.4	69°	800.5	575.6	517.1	490.8	464.5	447.0	438.2
18818.3	1764.7	70°	724.6	543.4	499.6	473.3	444.1	429.5	420.7
12624.4	1186.2	72.5°	569.7	470.4	444.1	414.9	394.4	376.9	374.0
6632.1	838.5	75°	470.4	403.2	382.7	359.4	338.9	321.4	321.4
2889.5	601.9	77.5°	394.4	333.1	315.5	292.2	271.7	254.2	251.3
1387.8	435.3	80°	306.8	254.2	242.5	233.7	210.4	184.1	181.1
733.3	312.6	82.5°	219.1	172.4	169.5	163.6	143.2	128.6	122.7
397.3	187.0	85°	137.3	99.3	90.6	78.9	70.1	70.1	70.1
192.8	81.8	87.5°	52.6	29.2	29.2	23.4	17.5	17.5	17.5
0.0	0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)