

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: McGRAW-EDISON

Report Number: P232687

Luminaire Tested: **CTN-6-3-D-E1-T3-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232687  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-171-19)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: CTN-6-3-D-E1-T3-7030  
Description: CELESTEON HIGH MAST LUMINAIRE  
(6) 70 CRI, 3000K LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30401 lumens  
Efficiency: N/A  
Efficacy: 129.9 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Medium - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 234  
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

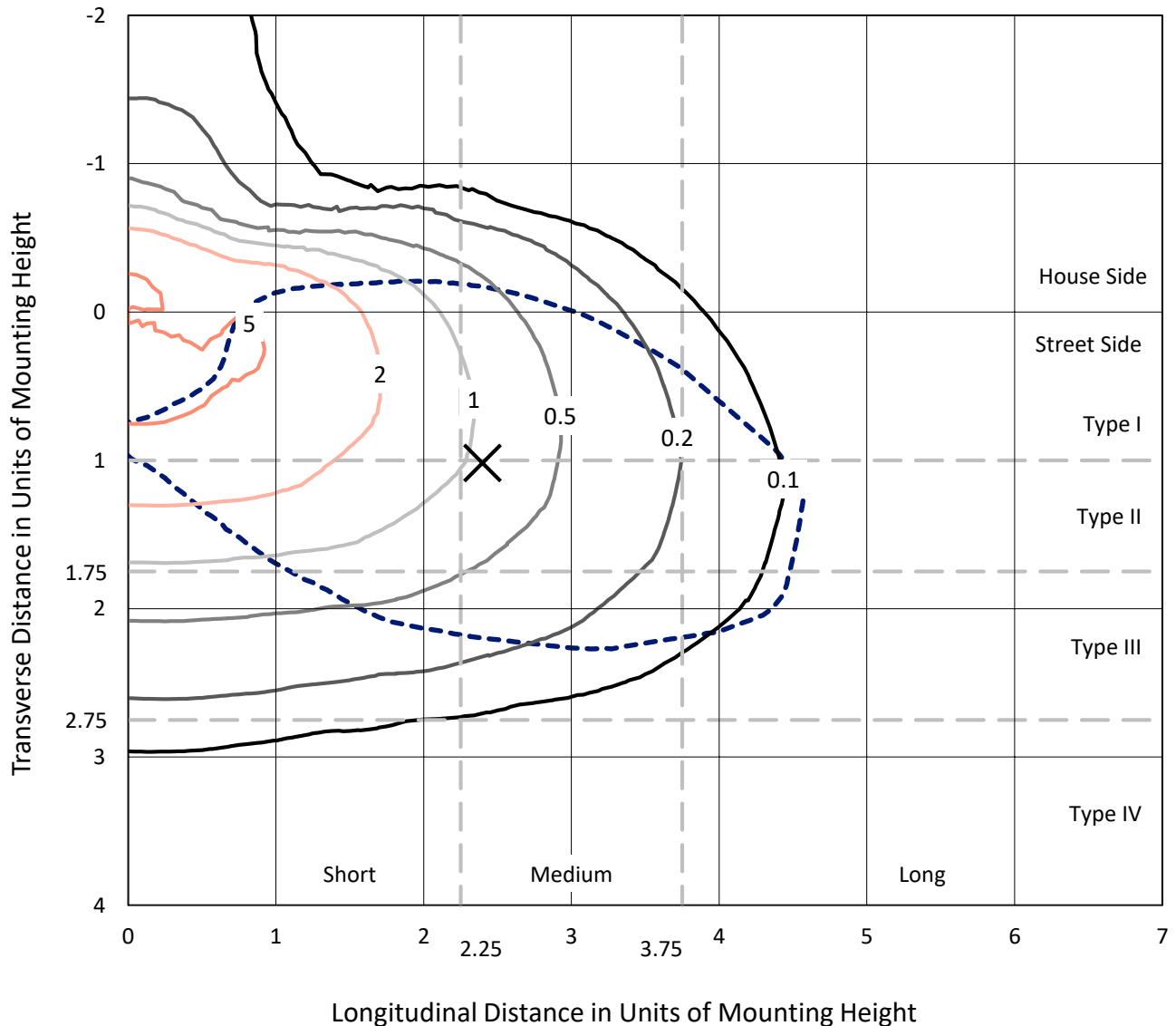


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### Iso-Footcandle Lines of Horizontal Illumination

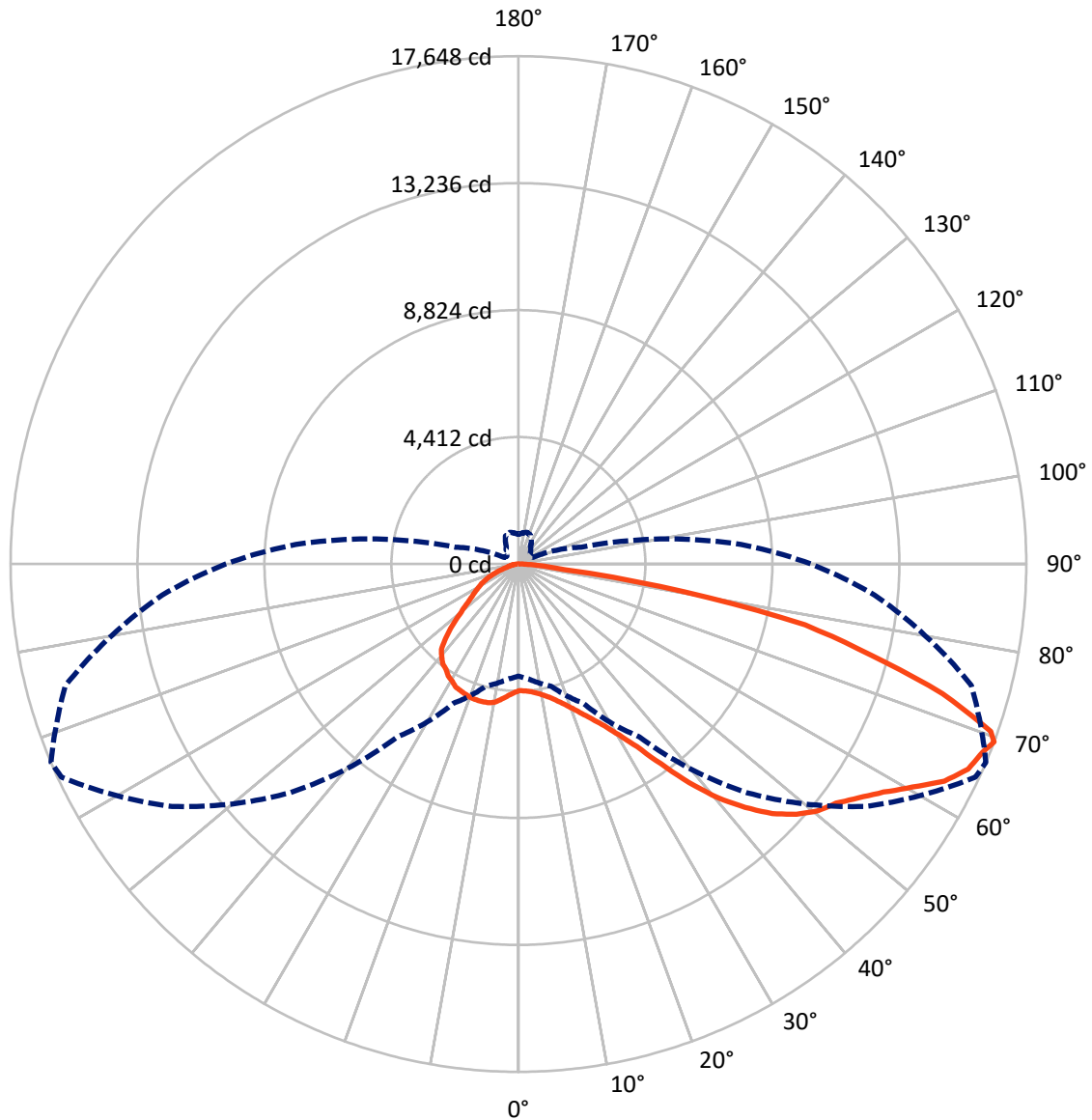
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc  
 Type III - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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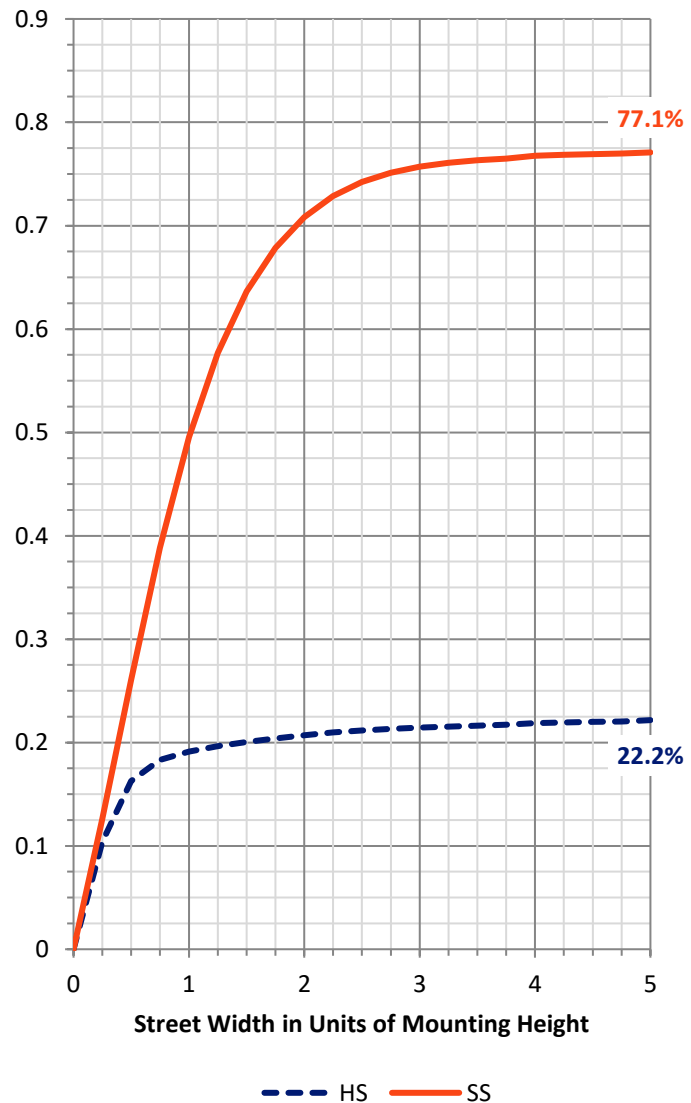
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6915.6	0.0	6915.6
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	23485.4	0.0	23485.4
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	30401.0	0.0	30401.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	446.6	1.5
10°-20°	1434.3	4.7
20°-30°	2494.3	8.2
30°-40°	3757.4	12.4
40°-50°	5189.3	17.1
50°-60°	6193.5	20.4
60°-70°	6522.9	21.5
70°-80°	3826.4	12.6
80°-90°	536.3	1.8
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°	30401.0	100.0
0°-180°	30401.0	100.0



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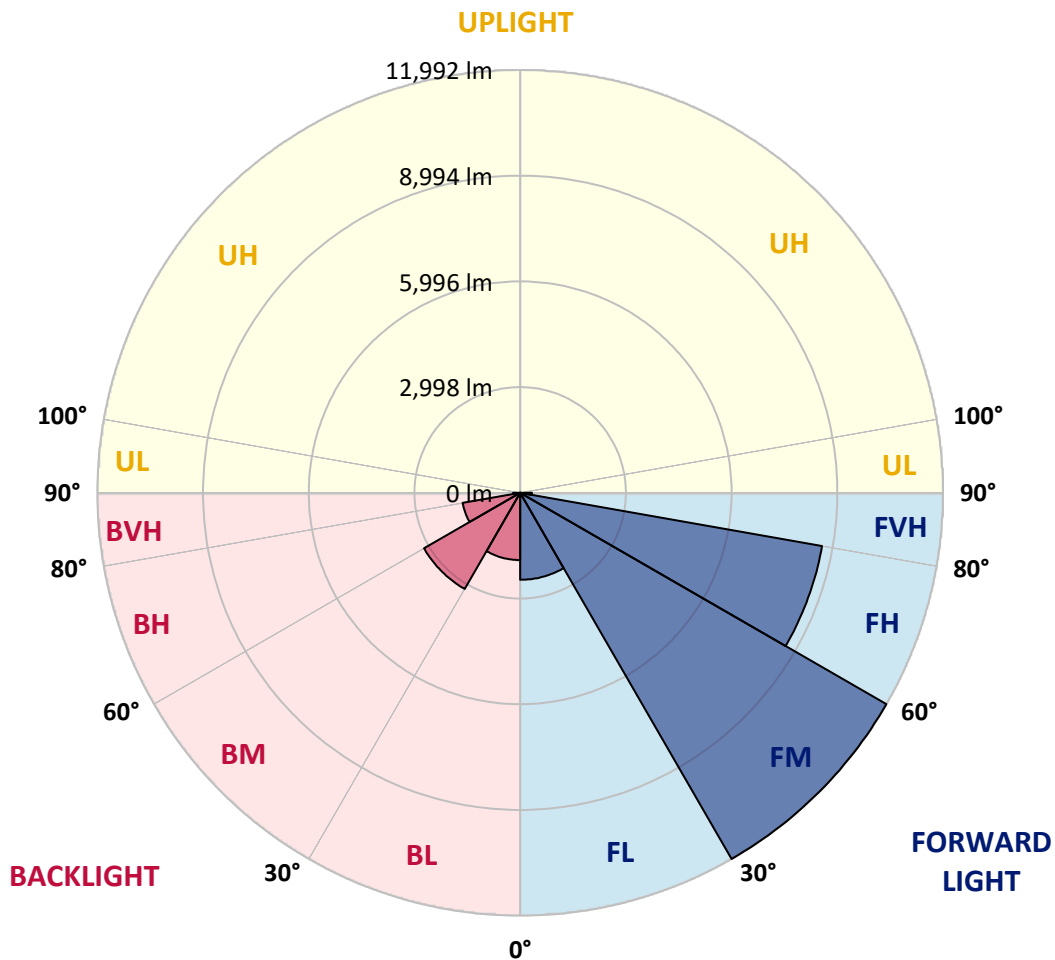
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2467.0	8.1			
FM	(30°-60°)	11991.8	39.4			
FH	(60°-80°)	8693.4	28.6			G4/12000
FVH	(80°-90°)	333.3	1.1			G3/500
BL	(0°-30°)	1908.3	6.3	B3/2500		
BM	(30°-60°)	3148.4	10.4	B3/5000		
BH	(60°-80°)	1655.9	5.4	B3/2500		G3/2500
BVH	(80°-90°)	203.0	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4399.5	4399.5	4399.5	4399.5	4399.5	4399.5	4399.5	4399.5	4399.5	4399.5	4399.5
2.5°	4417.9	4423.8	4417.9	4408.2	4376.1	4390.7	4378.1	4418.9	4416.0	4400.4	4428.7
5°	4521.1	4527.9	4515.3	4507.5	4457.8	4464.7	4437.4	4459.8	4452.0	4425.7	4469.5
7.5°	4689.4	4696.3	4680.7	4670.0	4599.9	4584.4	4534.7	4541.5	4526.9	4485.1	4535.7
10°	4916.2	4922.0	4895.8	4869.5	4779.9	4742.0	4659.3	4645.7	4624.3	4583.4	4635.0
12.5°	5160.4	5169.2	5137.1	5103.0	4998.9	4936.6	4818.9	4777.0	4750.8	4701.1	4757.6
15°	5422.2	5432.9	5399.8	5360.9	5246.1	5149.7	5002.8	4939.5	4914.2	4852.0	4887.0
17.5°	5765.7	5762.8	5735.5	5682.0	5544.8	5403.7	5222.7	5128.3	5110.8	5050.5	5059.2
20°	6163.7	6150.1	6124.8	6050.8	5902.0	5726.8	5490.3	5370.6	5353.1	5302.5	5249.0
22.5°	6595.8	6582.2	6557.8	6463.4	6316.5	6086.8	5803.7	5662.6	5639.2	5576.0	5486.4
25°	7021.0	7006.4	6992.8	6903.3	6760.2	6499.4	6158.9	5978.8	5968.1	5903.9	5739.4
27.5°	7462.8	7454.1	7458.0	7381.1	7238.0	6967.5	6581.2	6385.6	6367.1	6285.4	6061.5
30°	7917.3	7919.2	7956.2	7874.5	7743.1	7470.6	7087.2	6887.7	6890.6	6817.7	6490.7
32.5°	8324.0	8326.0	8408.7	8367.8	8295.8	8024.3	7672.1	7531.9	7560.1	7554.3	7219.6
35°	8617.9	8630.6	8815.5	8870.9	8843.7	8607.2	8395.1	8429.1	8518.7	8771.7	8420.4
37.5°	8894.3	8899.2	9135.6	9264.1	9365.3	9223.2	9180.4	9503.5	9644.6	9994.9	9475.2
40°	8974.1	9041.2	9340.0	9519.0	9754.5	9824.6	10041.6	10519.4	10685.8	10897.0	10185.6
42.5°	8901.1	8996.5	9371.1	9796.4	10123.3	10470.7	10868.7	11409.8	11560.6	11691.0	10865.8
45°	8748.3	8821.3	9210.5	9847.0	10439.6	11128.6	11587.9	12236.0	12372.2	12287.5	11397.1
47.5°	8544.9	8600.4	9034.4	9766.2	10692.6	11718.3	12246.7	12898.7	12997.9	12800.4	11758.2
50°	8262.7	8328.9	8813.5	9655.3	10878.5	12211.6	12776.0	13396.9	13480.6	13119.6	12112.4
52.5°	7914.4	7997.1	8560.5	9466.5	11017.6	12579.5	13145.8	13728.7	13813.4	13578.9	12392.6
55°	7519.3	7634.1	8214.1	9236.8	11027.4	12775.1	13376.5	14215.3	14336.0	14082.9	12637.9
57.5°	7118.3	7192.3	7806.3	8885.5	10844.4	12840.3	13652.8	14781.6	14957.8	14571.4	12905.5
60°	6628.9	6699.9	7308.1	8415.5	10479.5	12940.5	14205.6	15592.2	15732.4	15140.7	13133.2
62.5°	6049.9	6130.6	6682.4	7772.3	9939.4	12981.4	14769.0	16454.4	16615.0	15658.4	13264.6
65°	5314.2	5403.7	5906.8	6993.8	9167.7	12691.4	15012.3	17091.8	17174.5	16055.5	13208.1
67.5°	4510.4	4584.4	4985.3	6025.5	8100.2	11935.3	14884.8	17327.3	17411.0	16325.0	12870.4
69°	3895.4	4009.2	4394.6	5335.6	7332.4	11243.4	14690.2	17521.0	17648.4	16294.8	12426.7
70°	3403.0	3530.5	3878.8	4727.4	6680.4	10525.2	14328.2	17374.0	17410.0	16003.9	12026.7
72.5°	2150.6	2192.4	2351.0	2915.5	4700.2	8182.0	12538.6	15423.9	15414.2	14278.5	10499.0
75°	1062.6	1117.1	1417.8	1636.8	2316.0	5262.6	9869.3	12668.0	12670.0	12051.1	8631.5
77.5°	638.4	661.7	738.6	1054.9	1323.4	2361.8	6698.9	10028.9	10182.7	9808.0	6211.4
80°	439.8	428.2	450.6	518.7	712.3	1241.7	2753.9	5669.4	5835.8	5382.3	2645.9
82.5°	346.4	336.7	343.5	361.0	339.6	575.1	1164.8	1695.2	1645.5	1450.9	1016.9
85°	242.3	222.8	235.5	228.7	202.4	337.7	566.4	704.5	699.7	723.0	553.7
87.5°	76.9	68.1	70.1	68.1	56.4	119.7	203.4	274.4	253.0	256.9	194.6
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°	4399.5	4399.5	4399.5	4399.5	4399.5	4399.5	4399.5	4399.5	4399.5	4399.5	4399.5
2.5°	4435.5	4427.7	4436.4	4482.2	4471.5	4511.4	4521.1	4586.3	4589.2	4583.4	4612.6
5°	4490.0	4497.7	4530.8	4603.8	4628.1	4713.8	4752.7	4832.5	4840.3	4843.2	4871.4
7.5°	4568.8	4582.4	4653.4	4748.8	4794.5	4906.5	4964.8	5063.1	5069.9	5080.6	5112.8
10°	4685.6	4705.0	4761.5	4891.9	4906.5	4995.0	5048.5	5133.2	5127.4	5141.9	5171.1
12.5°	4803.3	4814.0	4856.8	4946.4	4936.6	5023.2	5046.6	5102.1	5098.2	5097.2	5118.6
15°	4929.8	4911.3	4917.2	4951.2	4915.2	4968.7	4952.2	4993.1	4939.5	4918.1	4932.7
17.5°	5064.1	5019.3	4961.9	4936.6	4868.5	4859.7	4803.3	4783.8	4746.9	4735.2	4746.9
20°	5223.7	5128.3	4989.2	4916.2	4767.3	4690.4	4582.4	4519.2	4433.5	4440.3	4456.9
22.5°	5386.2	5251.9	5041.7	4846.1	4635.9	4480.2	4265.2	4207.8	4095.8	4062.8	4095.8
25°	5585.7	5405.7	5068.0	4783.8	4437.4	4160.1	3942.1	3738.7	3654.1	3571.3	3602.5
27.5°	5847.5	5604.2	5163.4	4707.0	4212.6	3842.8	3496.4	3233.7	3128.6	3040.0	3045.9
30°	6187.1	5869.8	5199.4	4545.4	3942.1	3407.9	2971.9	2680.0	2548.6	2512.6	2497.0
32.5°	6814.7	6298.0	5263.6	4427.7	3605.4	2934.9	2399.7	2086.4	2003.6	2019.2	2069.8
35°	7927.0	7194.3	5458.2	4181.5	3233.7	2419.2	1864.5	1622.2	1635.8	1664.0	1658.2
37.5°	8886.5	8002.9	5782.3	4008.3	2779.2	1832.4	1408.1	1279.6	1361.4	1416.9	1414.9
40°	9538.5	8592.6	6206.5	3684.2	2205.1	1305.9	1036.4	965.3	1069.5	1188.2	1208.6
42.5°	10185.6	9128.8	6411.9	3397.2	1548.2	921.5	750.3	768.8	902.1	1014.0	1034.4
45°	10650.8	9518.1	6502.4	2885.3	988.7	705.5	654.9	723.0	867.0	955.6	965.3
47.5°	10992.3	9811.0	6404.1	2334.5	727.9	645.2	646.1	732.8	877.8	978.0	981.9
50°	11294.0	10017.3	6008.0	1820.7	654.9	624.7	658.8	761.0	908.9	1010.1	1007.2
52.5°	11500.3	10077.6	5527.3	1491.8	634.5	613.1	669.5	787.3	918.6	986.7	980.9
55°	11637.5	9987.1	5157.5	1228.1	617.0	612.1	687.0	820.3	928.4	955.6	942.0
57.5°	11722.2	9804.2	4845.1	1055.8	602.4	612.1	706.5	833.0	964.4	1014.0	998.4
60°	11696.9	9722.4	4421.8	914.7	581.9	614.0	717.2	851.5	1109.4	1226.1	1229.0
62.5°	11646.3	9562.8	4008.3	802.8	557.6	625.7	730.8	958.5	1362.4	1363.3	1314.7
65°	11405.9	9082.1	3406.9	701.6	532.3	628.6	733.7	1134.7	1527.8	1399.3	1336.1
67.5°	10744.2	8378.5	2703.3	607.2	504.1	611.1	730.8	1110.3	1233.9	1104.5	1072.4
69°	10167.1	7768.4	2258.6	550.8	483.6	593.6	733.7	1064.6	1142.4	1065.6	1036.4
70°	9746.7	7274.0	1919.0	516.7	465.1	584.8	733.7	1048.0	1129.8	1056.8	1028.6
72.5°	8365.9	5714.1	1150.2	431.1	411.6	550.8	726.9	1022.7	1139.5	1077.2	1040.3
75°	6408.9	4156.2	669.5	354.2	346.4	494.3	690.9	1007.2	1172.6	1078.2	997.4
77.5°	4106.6	1918.0	499.2	288.0	281.2	428.2	645.2	956.6	1204.7	1130.8	1028.6
80°	1426.6	870.0	372.7	227.7	218.0	350.3	565.4	862.2	1147.3	1155.1	1078.2
82.5°	782.4	573.2	263.7	169.3	160.6	219.9	439.8	743.5	1061.7	1143.4	1149.3
85°	430.1	323.1	173.2	109.0	122.6	188.8	304.6	578.0	854.4	993.6	1037.3
87.5°	174.2	116.8	68.1	42.8	50.6	74.9	103.2	295.8	515.8	665.6	732.8
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)