

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: P522165

Luminaire Tested: **CTN-CA10-760-727-U-T5R-HSS-HM-EX120**

Issue Date: 5/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522165  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-894-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 5/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: CTN-CA10-760-727-U-T5R-HSS-HM-EX120  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 69497 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B5 - U2 - G5

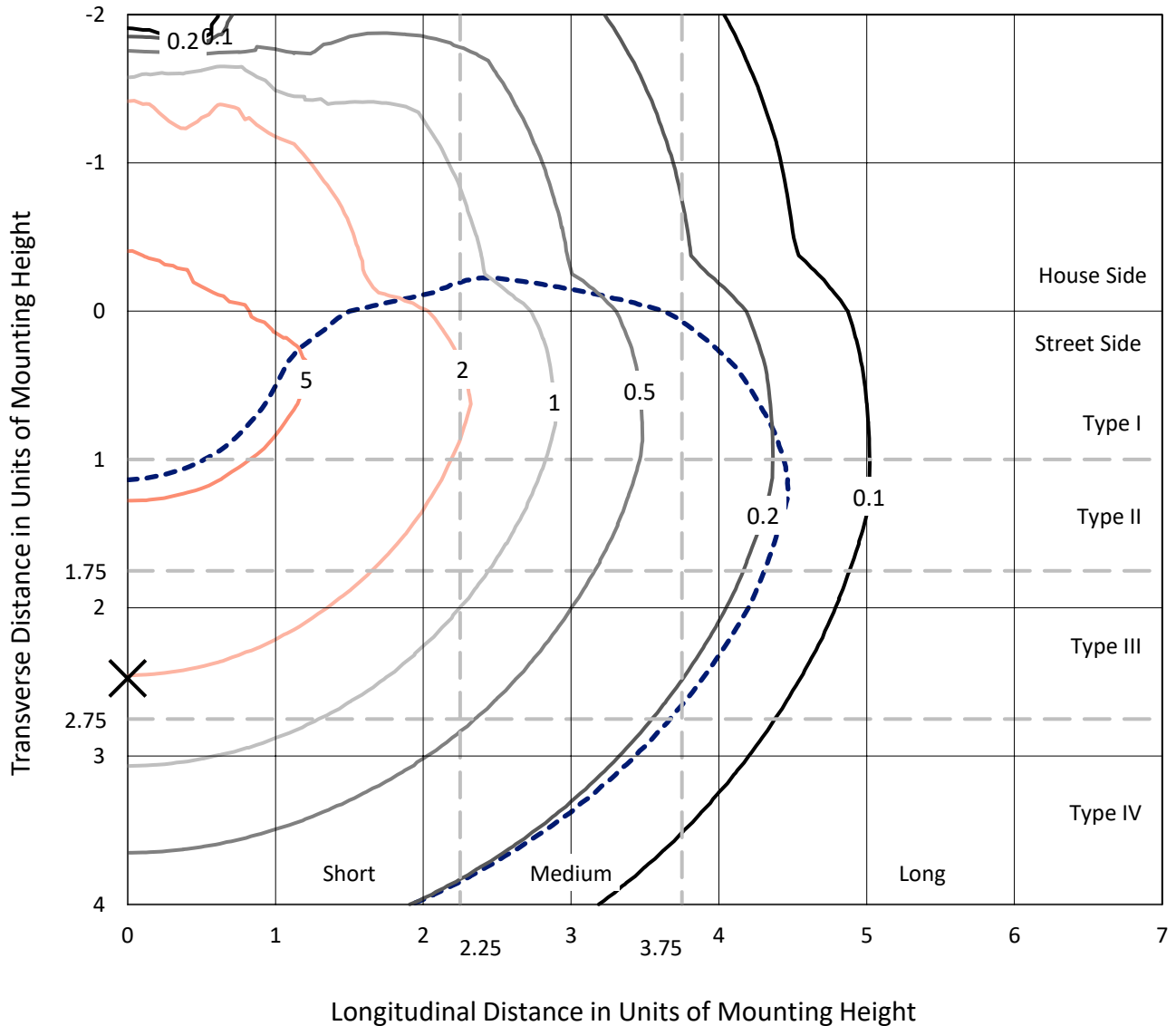
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

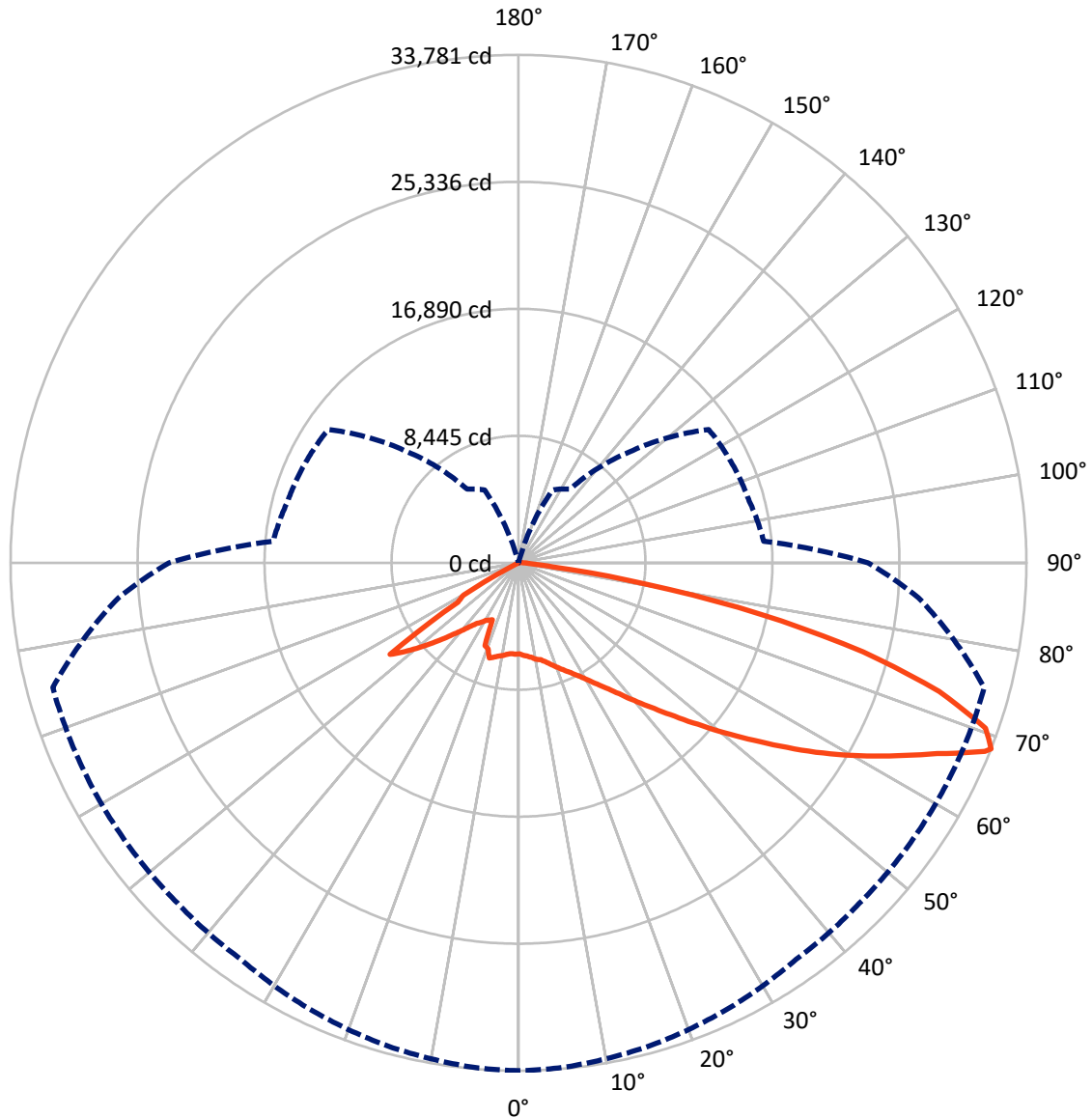
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical



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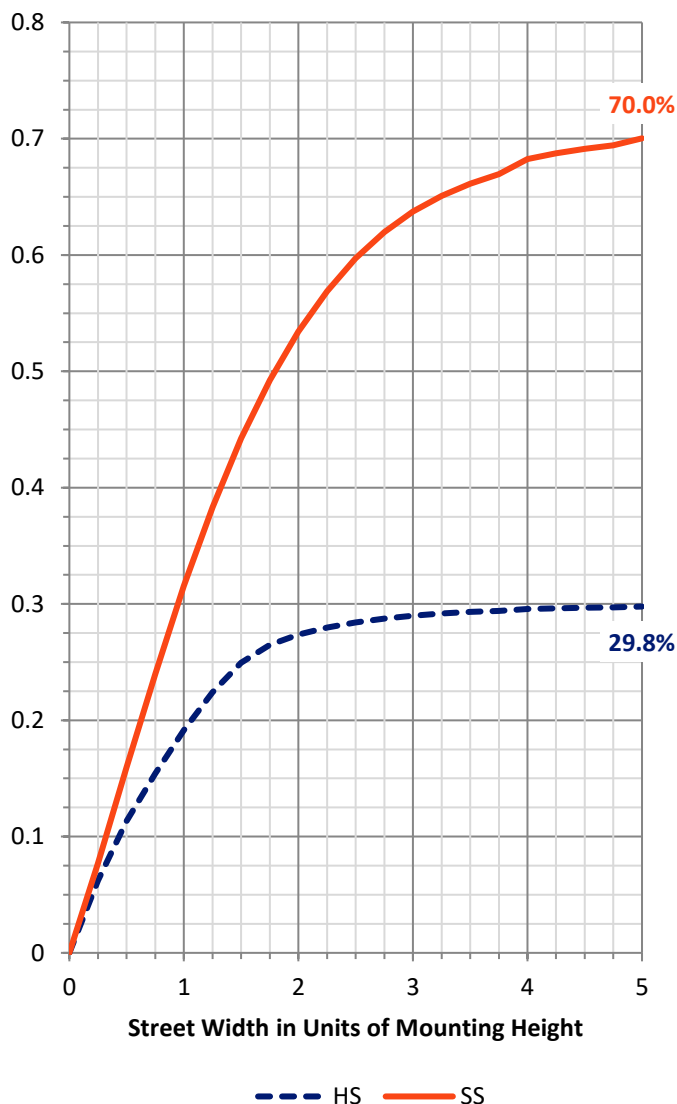
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20716.3	3.2	20719.5
	% Fixture	29.8	0.0	29.8
<b>Street Side</b>	Lumens	48749.1	28.5	48777.5
	% Fixture	70.1	0.0	70.2
<b>Total</b>	Lumens	69465.3	31.7	69497.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	588.1	0.8
10°-20°	1871.6	2.7
20°-30°	3205.8	4.6
30°-40°	5200.5	7.5
40°-50°	8770.5	12.6
50°-60°	14296.1	20.6
60°-70°	19173.4	27.6
70°-80°	14892.7	21.4
80°-90°	1466.7	2.1
90°-100°	27.9	0.0
100°-110°	1.6	0.0
110°-120°	0.4	0.0
120°-130°	0.3	0.0
130°-140°	0.4	0.0
140°-150°	0.4	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-90°	69465.3	100.0
0°-180°	69497.0	100.0

**Coefficient of Utilization**

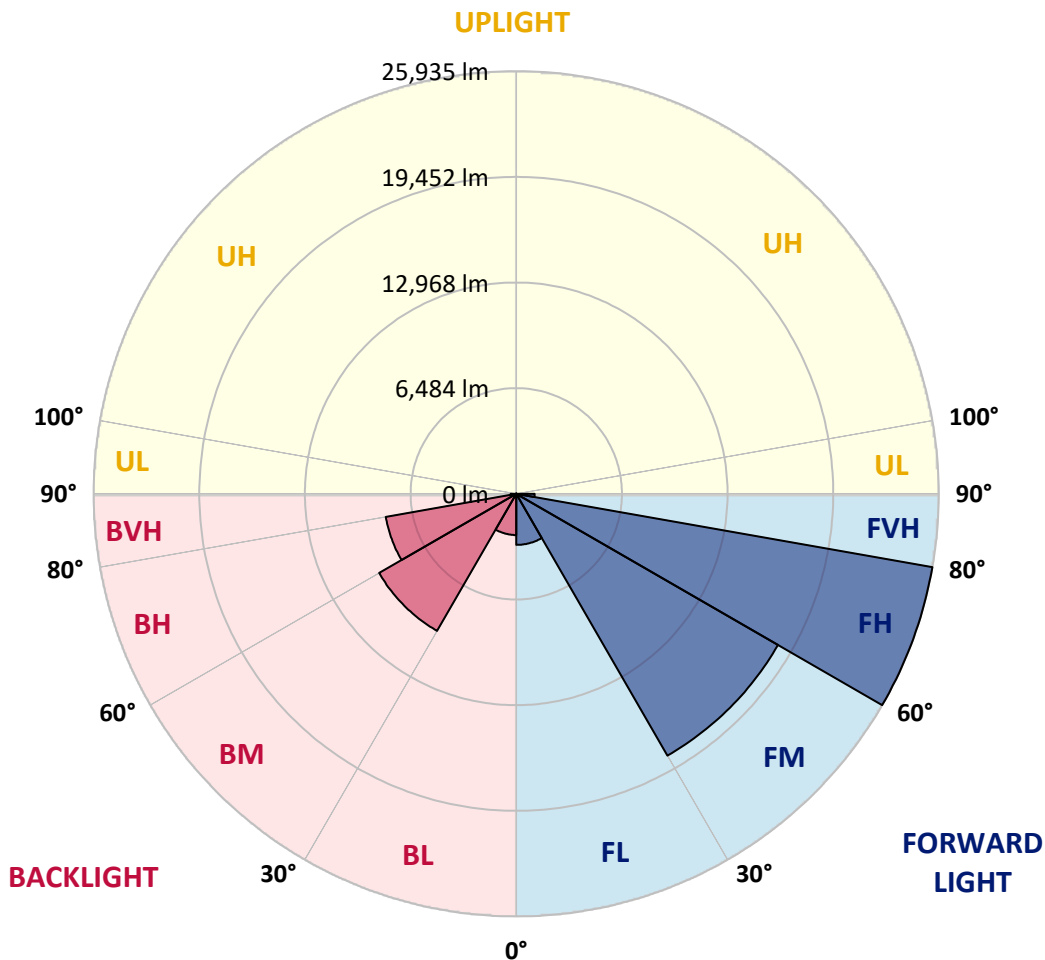


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3134.7	4.5			
FM	(30°-60°)	18551.2	26.7			
FH	(60°-80°)	25935.5	37.3			G5
FVH	(80°-90°)	1127.7	1.6			G5
BL	(0°-30°)	2530.7	3.6	B4/5000		
BM	(30°-60°)	9715.9	14.0	B5		
BH	(60°-80°)	8130.7	11.7	B5		G5
BVH	(80°-90°)	339.0	0.5			G3/500
UL	(90°-100°)	27.9	0.0		U2/50	
UH	(100°-180°)	3.8	0.0		U1/10	

**BUG Rating: B5-U2-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6058.9	6058.9	6058.9	6058.9	6058.9	6058.9	6058.9	6058.9	6058.9	6058.9	6058.9
2.5°	6159.5	6142.2	6139.3	6173.8	6064.6	6119.2	6070.4	6110.6	6084.7	6104.8	6107.7
5°	6242.8	6211.2	6191.1	6231.3	6162.3	6188.2	6133.6	6150.8	6079.0	6119.2	6125.0
7.5°	6363.5	6311.8	6306.0	6317.5	6257.2	6277.3	6188.2	6208.3	6156.6	6133.6	6153.7
10°	6527.4	6478.5	6441.1	6467.0	6386.5	6398.0	6303.2	6306.0	6268.7	6225.6	6260.0
12.5°	6619.3	6625.1	6607.8	6627.9	6561.8	6524.5	6458.4	6435.4	6398.0	6346.3	6329.0
15°	6849.3	6837.8	6803.3	6834.9	6826.3	6791.8	6711.3	6659.6	6579.1	6550.3	6521.6
17.5°	7130.9	7093.6	7064.8	7105.1	7148.2	7076.3	6998.7	6926.9	6820.5	6763.0	6728.5
20°	7427.0	7401.1	7372.4	7435.6	7450.0	7395.4	7337.9	7231.5	7107.9	7033.2	6961.4
22.5°	7757.5	7705.8	7714.4	7797.8	7771.9	7746.0	7671.3	7585.1	7435.6	7340.8	7133.8
25°	8099.5	8070.8	8111.0	8148.4	8128.3	8073.7	8036.3	7973.1	7806.4	7691.4	7389.6
27.5°	8524.9	8478.9	8530.7	8545.1	8527.8	8513.4	8461.7	8412.8	8231.8	8102.4	7725.9
30°	9025.0	8970.4	9053.8	9033.7	9016.4	9027.9	8996.3	8890.0	8729.0	8553.7	8177.2
32.5°	9620.0	9548.2	9643.0	9599.9	9559.7	9640.1	9565.4	9464.8	9275.1	9071.0	8703.1
35°	10309.8	10312.7	10361.6	10289.7	10275.3	10361.6	10312.7	10189.1	10013.8	9801.1	9278.0
37.5°	11146.2	11123.2	11246.8	11212.3	11160.6	11275.6	11289.9	11134.7	10818.6	10608.7	9990.8
40°	12163.7	12157.9	12198.2	12203.9	12189.6	12244.2	12270.0	12063.1	11859.0	11542.9	9427.4
42.5°	13250.2	13273.1	13345.0	13293.3	13362.2	13434.1	13442.7	13270.3	12977.1	11074.4	10013.8
45°	14555.0	14626.9	14675.8	14664.3	14695.9	14799.4	14808.0	14716.0	14428.6	11997.0	11077.2
47.5°	16052.5	16121.5	16135.9	16227.8	16199.1	16345.7	16325.6	16328.4	16020.9	13281.8	12235.6
50°	17774.2	17805.8	17923.6	17975.4	17903.5	18101.8	18050.1	18113.3	17733.9	14753.4	13480.1
52.5°	19602.2	19656.8	19705.6	19901.1	19809.1	19981.6	19912.6	20059.2	19619.4	16250.8	14862.6
55°	21680.2	21688.9	21772.2	21970.5	21849.8	22056.8	21956.2	22010.8	21660.1	17906.4	16302.6
57.5°	23881.9	23853.1	23884.8	24042.8	23933.6	24088.8	24048.6	24100.3	23772.7	19648.2	17354.5
60°	26060.5	26017.4	26063.4	26169.8	26020.3	26287.6	26143.9	26192.8	25839.2	21427.3	18854.9
62.5°	28250.7	28219.1	28167.3	28273.7	28055.3	28193.2	28253.6	28173.1	27862.7	23036.9	20159.8
65°	30601.8	30570.2	30380.5	30446.6	30055.7	29989.6	30012.6	30038.5	29831.5	24632.1	21591.1
67.5°	33458.8	33412.8	33056.4	32608.0	32044.7	31921.1	31932.6	32001.6	32030.3	26684.3	23266.8
68°	33780.7	33697.3	33300.7	32780.5	32191.3	32047.5	32033.2	32047.5	32061.9	26701.5	23249.6
70°	32958.7	32927.1	32625.3	31995.8	31392.2	31047.3	30748.4	30736.9	30598.9	25336.2	21964.8
72.5°	29248.1	29207.8	28848.5	28403.0	28029.4	27489.0	27101.0	27124.0	26896.9	22393.0	19225.7
75°	23669.2	23666.3	23235.2	22861.5	22867.3	22827.0	22697.7	22924.8	22689.1	18992.8	16397.4
77.5°	16495.1	16552.6	16523.9	16305.4	16613.0	17038.4	17501.1	17938.0	17802.9	15003.4	13074.8
80°	8616.9	8777.9	9347.0	9372.8	9588.4	10002.3	10318.4	10611.6	10631.7	8513.4	7553.4
82.5°	2290.8	2339.6	2532.2	2477.6	2460.3	2543.7	2612.7	2621.3	2627.0	2218.9	2072.3
85°	712.8	732.9	709.9	678.3	629.5	574.8	560.5	457.0	362.2	298.9	261.6
87.5°	505.9	540.4	488.6	459.9	408.1	388.0	347.8	273.1	212.7	149.5	100.6
90°	261.6	267.3	238.6	204.1	189.7	178.2	152.3	109.2	54.6	28.7	25.9
92.5°	132.2	135.1	117.8	100.6	86.2	74.7	57.5	31.6	17.2	8.6	2.9
95°	51.7	54.6	48.9	43.1	34.5	25.9	23.0	17.2	11.5	5.7	2.9
97.5°	17.2	17.2	17.2	14.4	14.4	14.4	14.4	11.5	8.6	5.7	2.9
100°	0.0	0.0	0.0	2.9	5.7	8.6	8.6	8.6	5.7	2.9	2.9
102.5°	0.0	0.0	0.0	0.0	0.0	2.9	5.7	5.7	5.7	2.9	2.9
105°	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9	2.9
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9
165°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9
170°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9
175°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9
180°	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°	6058.9	6058.9	6058.9	6058.9	6058.9	6058.9	6058.9	6058.9	6058.9	6058.9
2.5°	6093.3	6076.1	6084.7	6012.9	6030.1	5984.1	6081.8	6056.0	6044.5	6084.7
5°	6107.7	6044.5	6096.2	6047.4	6056.0	5989.9	6070.4	6038.7	6035.9	6058.9
7.5°	6113.5	6081.8	6130.7	6050.2	6076.1	6050.2	6110.6	6079.0	6107.7	6127.8
10°	6193.9	6176.7	6170.9	6142.2	6162.3	6104.8	6179.6	6179.6	6193.9	6248.6
12.5°	6311.8	6288.8	6274.4	6222.7	6242.8	6225.6	6285.9	6297.4	6323.3	6346.3
15°	6472.7	6432.5	6418.1	6372.1	6386.5	6383.6	6426.8	6429.6	6487.1	6484.2
17.5°	6679.7	6622.2	6639.4	6605.0	6607.8	6584.8	6561.8	6561.8	6613.6	6625.1
20°	6926.9	6599.2	6168.1	5926.6	5883.5	5915.1	6038.7	6242.8	5987.0	6058.9
22.5°	6481.4	6185.3	6165.2	6110.6	6076.1	5305.8	5107.5	5044.3	5374.8	5943.9
25°	6538.8	6412.4	6375.0	6306.0	5288.6	5279.9	5222.5	5127.6	4190.6	4170.5
27.5°	6843.5	6719.9	6659.6	5524.2	5501.3	5498.4	5412.2	4460.8	4245.2	4274.0
30°	7199.9	7056.2	5975.5	5803.0	5782.9	5736.9	5242.6	4406.2	4403.3	4406.2
32.5°	7610.9	7133.8	6148.0	6139.3	6150.8	6010.0	4644.7	4627.5	4624.6	4653.4
35°	8174.3	6619.3	6579.1	6622.2	6561.8	5196.6	4923.5	4914.9	4917.8	4903.4
37.5°	7800.6	7136.7	7128.1	7128.1	6987.2	5317.3	5262.7	5302.9	5297.2	5277.1
40°	7958.7	7763.3	7711.5	7694.3	5906.5	5736.9	5705.3	5757.1	5765.7	5780.1
42.5°	8726.1	8547.9	8522.1	8318.0	6426.8	6372.1	6274.4	6329.0	6323.3	6340.5
45°	9668.9	9548.2	9436.1	7211.4	7128.1	7059.1	6958.5	7021.7	7039.0	7027.5
47.5°	10766.8	10634.6	9824.1	7930.0	7927.1	7872.5	7760.4	7812.1	7803.5	7803.5
50°	11870.5	11726.8	8924.5	8844.0	8815.2	8729.0	8637.0	8645.7	8648.5	8677.3
52.5°	13103.6	10473.7	9878.7	9717.7	9740.7	9683.2	9594.1	7263.2	9551.0	9576.9
55°	12247.0	10962.3	10927.8	10715.1	10769.7	10695.0	10637.5	7165.4	9499.3	10496.6
57.5°	12109.1	12017.1	11988.4	11769.9	11838.9	11129.0	11660.7	7840.9	6570.5	4799.9
60°	13163.9	13066.2	13049.0	12856.4	12850.6	8844.0	10600.1	5377.7	4202.1	4230.9
62.5°	14187.1	14029.1	14072.2	13845.1	9760.8	5389.2	4751.1	120.7	192.6	204.1
65°	15328.2	15063.8	15106.9	14897.1	10068.4	5682.3	5136.2	63.2	54.6	51.7
67.5°	16426.2	15963.4	15742.1	15520.8	10456.4	5984.1	5351.8	17.2	0.0	0.0
68°	16371.6	15882.9	15655.9	15446.1	10416.2	5975.5	5340.3	17.2	0.0	0.0
70°	15448.9	15009.2	14793.6	14632.6	9944.8	5771.4	5124.7	17.2	0.0	0.0
72.5°	13506.0	13261.6	13123.7	12982.8	8835.3	5162.1	4595.9	17.2	0.0	0.0
75°	11476.8	11407.8	11321.5	11011.1	7363.7	4225.1	3776.7	17.2	0.0	0.0
77.5°	9094.0	9091.2	8881.3	8516.3	5544.4	3101.3	2785.1	14.4	0.0	0.0
80°	4917.8	5360.4	5199.5	5012.6	3144.4	1687.2	1606.7	11.5	0.0	0.0
82.5°	1382.5	1307.8	1256.0	1175.6	661.1	367.9	359.3	11.5	0.0	0.0
85°	192.6	212.7	235.7	267.3	152.3	97.7	86.2	5.7	0.0	0.0
87.5°	109.2	123.6	152.3	158.1	57.5	46.0	14.4	0.0	0.0	0.0
90°	23.0	25.9	28.7	28.7	11.5	11.5	0.0	0.0	0.0	0.0
92.5°	0.0	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	2.9	2.9	2.9	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°
110°	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)