

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: P579637

Luminaire Tested: **CTN-CA10-760-727-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579637  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/18/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: CTN-CA10-760-727-U-T5N-HSS-HM-EX120  
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD  
Light Source: (10) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 70861 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U2 - G5

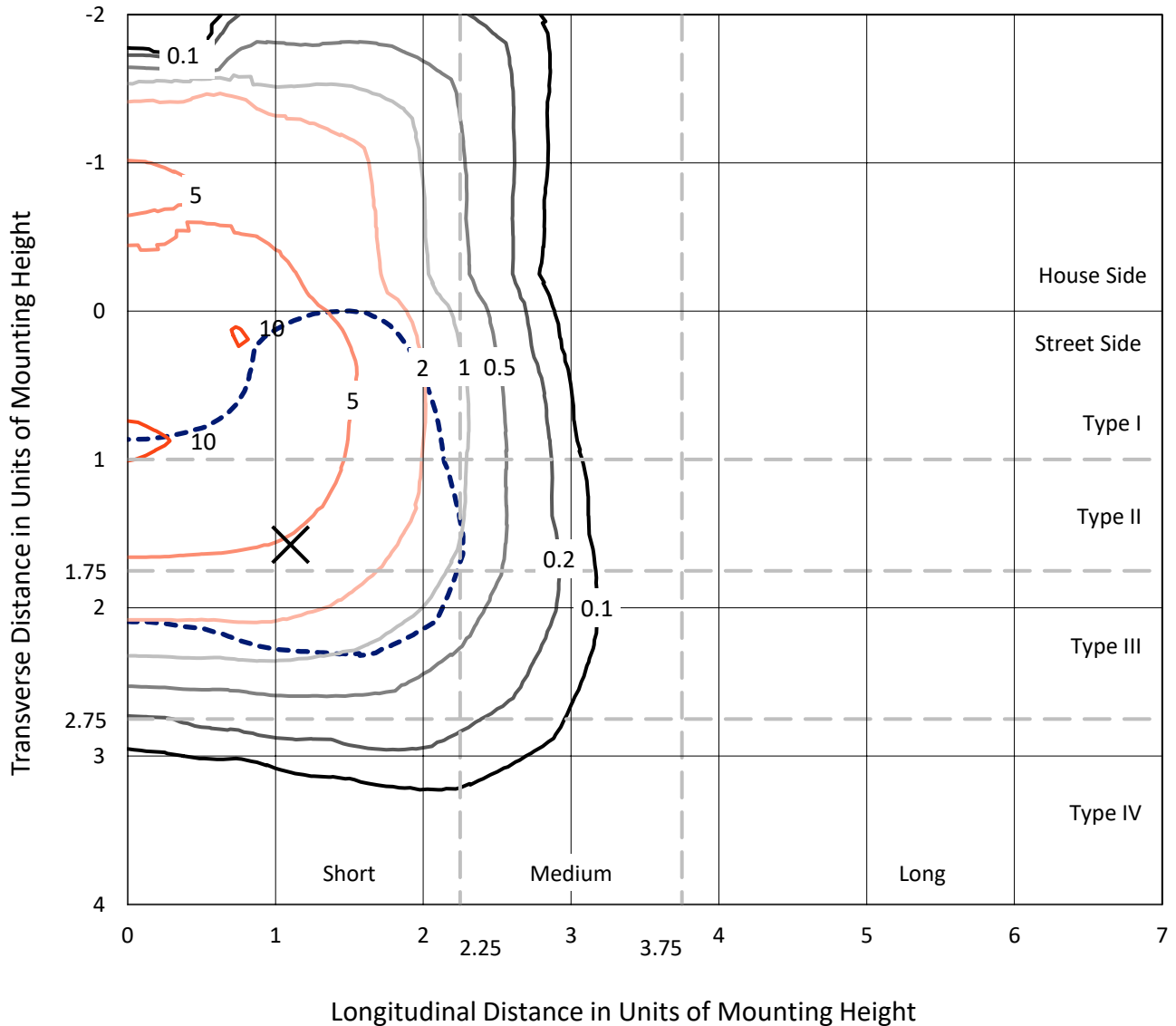
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

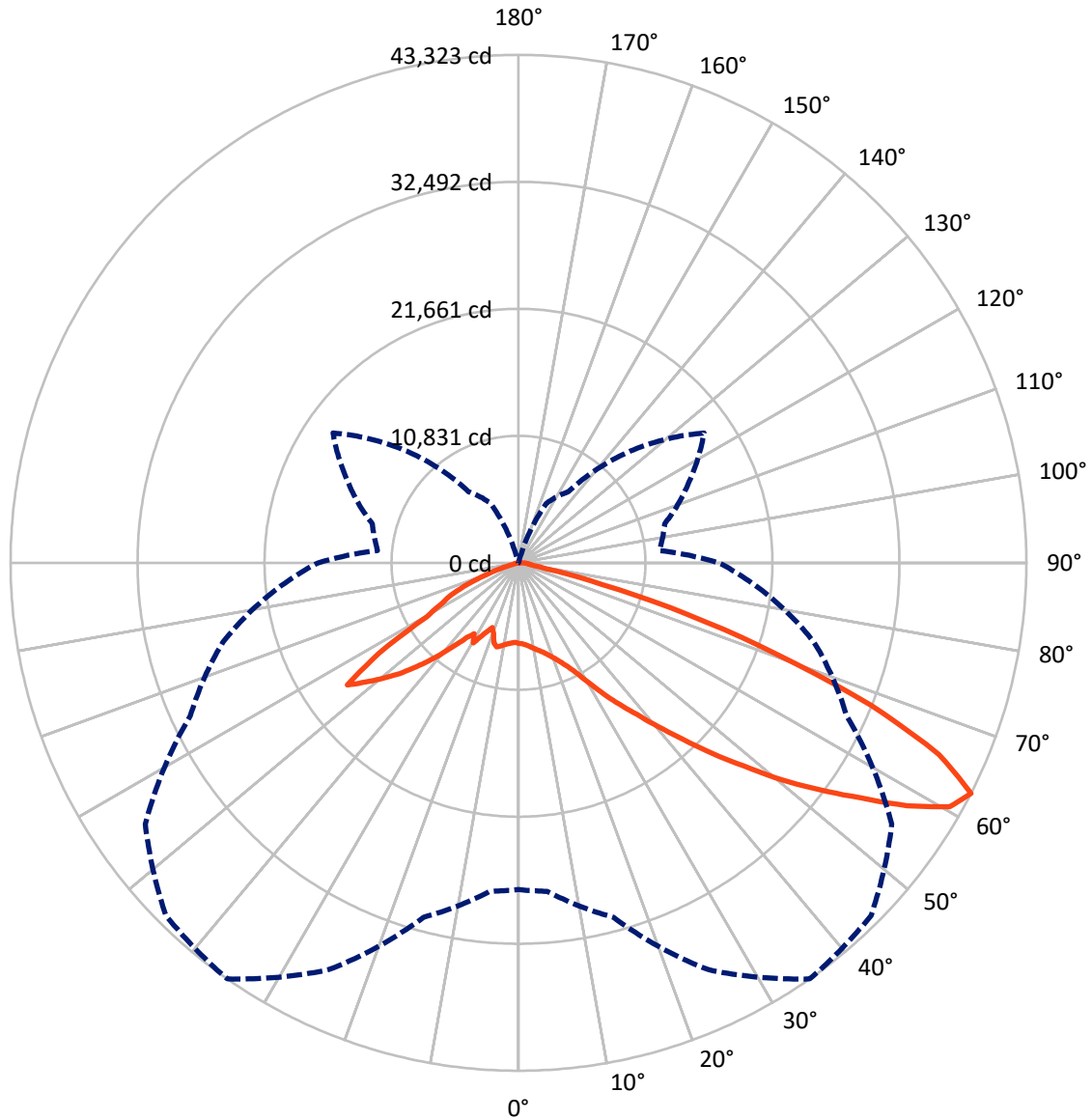
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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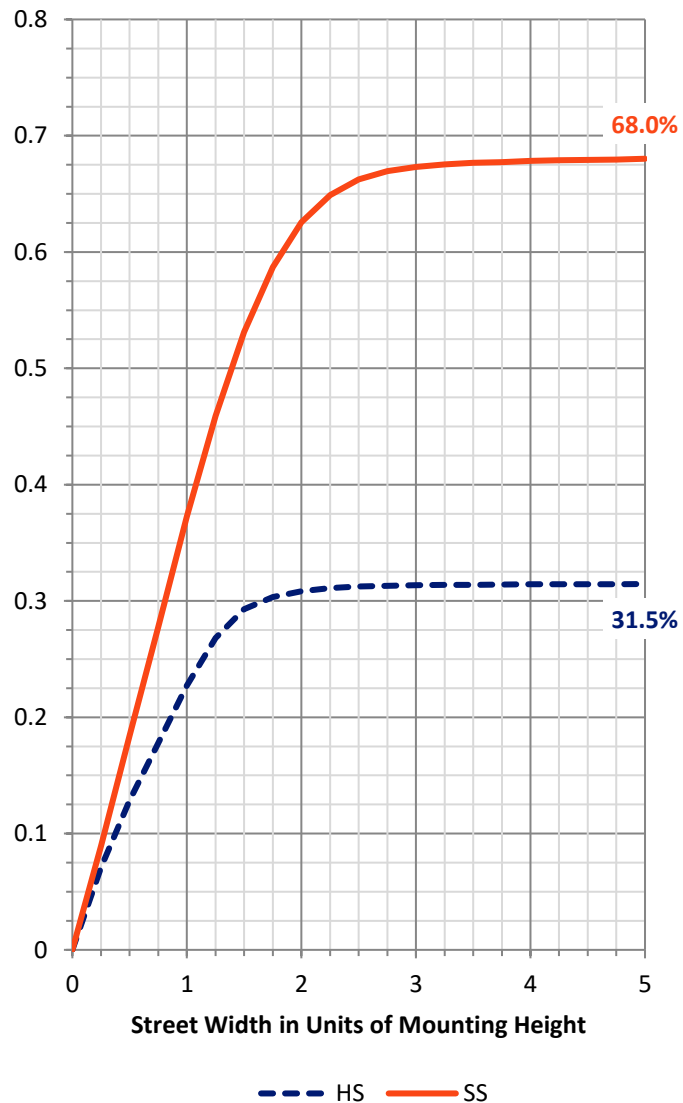
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22417.4	0.0	22417.4
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	48403.1	40.4	48443.6
	% Fixture	68.3	0.1	68.4
<b>Total</b>	Lumens	70820.5	40.5	70861.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	678.3	1.0
10°-20°	2180.7	3.1
20°-30°	4049.4	5.7
30°-40°	7983.6	11.3
40°-50°	14331.5	20.2
50°-60°	20832.3	29.4
60°-70°	17120.8	24.2
70°-80°	3254.4	4.6
80°-90°	389.6	0.5
90°-100°	36.9	0.1
100°-110°	3.5	0.0
110°-120°	0.1	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°	70820.5	99.9
0°-180°	70861.0	100.0

**Coefficient of Utilization**

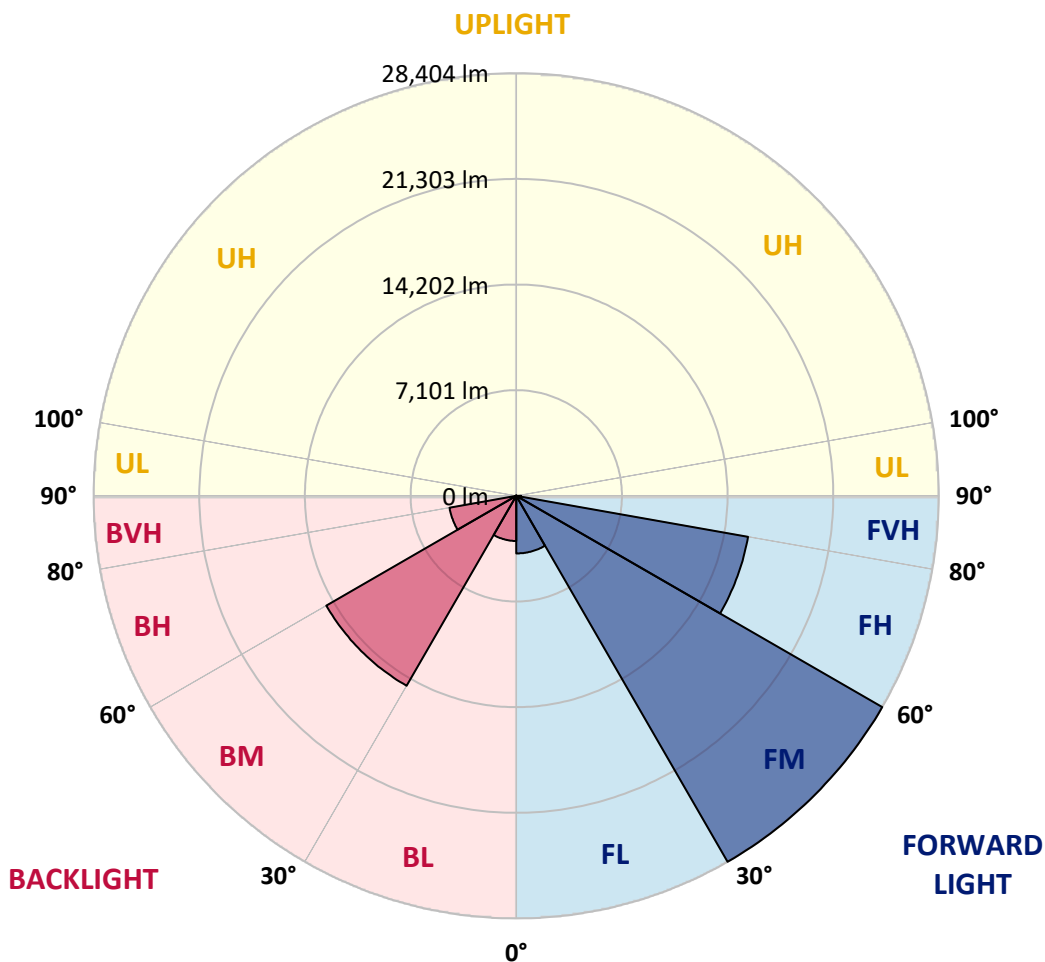


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3873.0	5.5			
FM (30°-60°)	28404.4	40.1			
FH (60°-80°)	15817.8	22.3			G5
FVH (80°-90°)	308.0	0.4			G3/500
BL (0°-30°)	3035.4	4.3	B4/5000		
BM (30°-60°)	14743.0	20.8	B5		
BH (60°-80°)	4557.4	6.4	B4/5000		G4/5000
BVH (80°-90°)	81.5	0.1			G1/100
UL (90°-100°)	36.9	0.1		U2/50	
UH (100°-180°)	3.6	0.0		U1/10	

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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6878.2	6878.2	6878.2	6878.2	6878.2	6878.2	6878.2	6878.2	6878.2	6878.2	6878.2
2.5°	7053.9	6996.2	7002.0	7045.2	6915.6	6958.8	6898.3	6950.2	6927.1	6950.2	6964.6
5°	7195.0	7123.0	7120.1	7163.3	7059.6	7085.5	7016.4	7051.0	7019.3	7048.1	7048.1
7.5°	7367.8	7307.3	7292.9	7327.5	7235.3	7246.8	7177.7	7192.1	7154.7	7192.1	7163.3
10°	7583.8	7529.1	7506.1	7523.3	7439.8	7445.6	7370.7	7376.4	7321.7	7353.4	7330.4
12.5°	7811.4	7736.5	7725.0	7753.8	7667.4	7655.8	7592.5	7598.2	7537.7	7566.5	7549.3
15°	8047.6	7969.8	7972.7	8001.5	7915.1	7920.8	7854.6	7866.1	7805.6	7834.4	7811.4
17.5°	8361.5	8283.7	8278.0	8329.8	8257.8	8280.9	8211.7	8226.1	8182.9	8188.7	8162.8
20°	8810.8	8710.0	8689.9	8764.8	8669.7	8698.5	8661.1	8710.0	8692.7	8678.3	8658.2
22.5°	9346.6	9268.8	9228.5	9286.1	9173.8	9228.5	9248.6	9349.5	9375.4	9358.1	9041.3
25°	10063.8	10023.4	9983.1	9957.2	9821.8	9908.2	10011.9	10179.0	10288.4	10331.6	9890.9
27.5°	11031.5	11051.7	10876.0	10847.2	10694.6	10829.9	11017.1	11287.9	11509.7	11590.3	10997.0
30°	12275.8	12301.8	12062.7	11993.6	11901.4	12016.6	12365.1	12661.8	12990.2	13125.5	12333.4
32.5°	13929.1	13906.1	13554.7	13422.2	13338.7	13384.8	13750.5	14156.7	14525.3	14830.7	13857.1
35°	15948.2	15876.2	15501.8	15136.0	14804.7	14945.9	15213.7	15706.3	16265.1	16714.4	15360.6
37.5°	18292.8	18223.7	17653.4	17057.1	16403.3	16463.8	16702.9	17506.5	18226.5	18344.6	15104.3
40°	20715.1	20686.3	20147.7	19390.2	18373.4	18088.3	18405.1	19384.4	20144.8	18085.4	15700.5
42.5°	23134.6	22996.3	22693.9	21936.4	20582.6	19954.7	20381.0	21360.3	22178.3	18961.0	17083.1
45°	25574.2	25433.0	25176.7	24620.8	23212.3	22299.3	22423.1	23509.0	24249.2	20602.8	18523.2
47.5°	27740.2	27636.5	27452.1	27141.1	25885.3	25058.6	24819.5	25579.9	26084.0	21936.4	19629.2
50°	29606.6	29517.3	29589.3	29485.6	29116.9	28250.0	27460.8	27411.8	27653.8	23123.0	20646.0
52.5°	31248.4	31127.4	31435.6	31801.4	32141.3	31948.3	30038.6	29148.6	28929.7	24013.1	21328.6
55°	32605.0	32561.8	33091.8	34079.7	35373.0	35879.9	32795.1	30753.0	30070.3	24767.7	21392.0
57.5°	33417.2	33520.9	34641.4	36553.9	39082.8	39321.8	36021.0	32458.1	31075.5	25225.7	21694.4
60°	32028.9	32380.3	34396.5	38408.8	42239.6	42343.3	38339.7	32798.0	29759.3	23578.1	20078.6
62.5°	27869.8	28123.2	31294.5	38290.7	43322.6	42533.4	38858.1	30879.7	26081.1	20000.8	17077.3
65°	19692.6	19986.4	23808.6	34529.0	39414.0	39442.8	35594.7	26703.3	20847.6	15484.5	13186.0
67.5°	11878.4	12353.6	15974.1	25067.2	32452.3	33042.8	29695.9	20216.8	14920.0	10109.9	8534.3
70°	3897.0	4332.0	7292.9	14836.4	23393.8	25922.7	22302.2	13137.0	7791.2	4274.4	3442.0
72.5°	1543.8	1742.6	2569.2	6561.3	15075.5	17307.7	13741.9	6348.2	2615.3	1134.8	987.9
75°	1031.1	1051.3	1186.7	2235.1	7376.4	9464.7	6624.7	1846.3	970.7	708.6	622.1
77.5°	898.7	901.5	962.0	1178.0	2402.2	3629.2	1906.8	990.8	803.6	581.8	515.6
80°	823.8	835.3	872.7	1005.2	1100.3	1232.8	941.9	826.6	697.0	535.7	486.8
82.5°	789.2	797.8	820.9	910.2	890.0	924.6	760.4	656.7	587.6	492.5	466.6
85°	720.1	734.5	748.9	803.6	731.6	633.7	587.6	440.7	420.5	371.6	342.8
87.5°	544.4	541.5	527.1	535.7	489.7	400.4	331.2	247.7	201.6	167.1	138.3
90°	227.5	230.4	221.8	210.3	184.3	152.7	115.2	69.1	34.6	11.5	5.8
92.5°	172.8	175.7	169.9	152.7	132.5	106.6	77.8	40.3	23.0	8.6	2.9
95°	106.6	109.5	103.7	92.2	80.6	60.5	40.3	25.9	14.4	5.8	0.0
97.5°	63.4	66.2	60.5	54.7	43.2	28.8	23.0	17.3	11.5	5.8	0.0
100°	37.4	37.4	34.6	28.8	20.2	17.3	14.4	11.5	8.6	2.9	0.0
102.5°	17.3	17.3	17.3	11.5	8.6	8.6	8.6	8.6	8.6	2.9	0.0
105°	5.8	5.8	2.9	2.9	2.9	5.8	5.8	5.8	5.8	2.9	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.8	5.8	2.9	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	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	0.0





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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6878.2	6878.2	6878.2	6878.2	6878.2	6878.2	6878.2	6878.2	6878.2	6878.2
2.5°	6950.2	6895.4	6904.1	6855.1	6843.6	6791.7	6883.9	6892.6	6866.6	6892.6
5°	7036.6	6970.3	6987.6	6932.9	6918.5	6846.5	6921.4	6915.6	6895.4	6921.4
7.5°	7163.3	7088.4	7097.1	7033.7	7019.3	6938.6	7007.8	6987.6	6964.6	6996.2
10°	7324.6	7252.6	7255.5	7169.1	7160.4	7068.3	7157.5	7120.1	7085.5	7131.6
12.5°	7549.3	7448.5	7439.8	7344.8	7341.9	7246.8	7339.0	7307.3	7261.2	7333.2
15°	7808.5	7673.1	7638.6	7517.6	7514.7	7413.9	7506.1	7457.1	7434.1	7520.5
17.5°	8145.5	7975.5	7713.4	7301.6	7114.3	7146.0	7471.5	7589.6	7281.4	7327.5
20°	8350.0	7526.2	7143.1	6973.2	6883.9	6371.2	5677.1	5734.7	6417.3	6742.8
22.5°	8004.4	7759.5	7618.4	7379.3	6135.0	5959.3	5999.7	5988.1	5106.8	4844.7
25°	8724.4	8494.0	8237.7	6762.9	6506.6	6431.7	6451.9	5625.2	5144.2	5164.4
27.5°	9761.3	9464.7	7840.2	7200.7	7148.9	7039.5	6642.0	5648.3	5708.8	5749.1
30°	11071.9	10017.7	8350.0	8070.6	7966.9	7848.8	6163.8	6310.7	6423.1	6546.9
32.5°	12339.2	9744.1	9326.4	9035.5	8874.2	7125.9	6953.0	7223.8	7336.1	7442.7
35°	12224.0	10916.3	10374.8	10006.2	9703.7	7690.4	7843.1	8254.9	8551.6	8548.7
37.5°	12540.8	12192.3	11567.3	11100.7	8422.0	8615.0	8934.7	9404.2	9764.2	9761.3
40°	13862.9	13485.6	12898.0	11895.6	9332.2	9781.5	10219.3	10660.0	10919.2	10939.4
42.5°	15176.3	14885.4	14355.4	10507.3	10446.8	11069.0	11527.0	11806.3	11964.8	12019.5
45°	16484.0	16210.3	14104.8	11622.0	11806.3	12422.7	12702.1	12756.8	12926.8	12921.0
47.5°	17523.7	17290.4	12975.7	12946.9	13404.9	13831.2	13741.9	13672.8	13716.0	13739.0
50°	18482.9	15052.4	13989.6	14410.1	15107.2	15159.0	14787.5	11714.2	14502.3	14453.3
52.5°	17169.5	14689.5	14934.4	15919.4	17106.1	16504.1	15778.3	10268.3	13600.8	14894.0
55°	15023.6	15271.3	15824.4	17477.7	18649.9	17935.6	16723.0	10573.6	9026.9	7347.6
57.5°	15323.2	15714.9	16766.2	19050.3	20072.8	14205.6	15608.3	7454.2	5046.3	5043.4
60°	14269.0	14862.3	16746.1	19756.0	16247.8	9101.7	6253.1	169.9	979.3	970.7
62.5°	12062.7	12906.6	15977.0	19309.5	13459.6	7396.6	5570.5	14.4	5.8	5.8
65°	9329.3	10323.0	13321.4	16720.1	11924.4	6371.2	4136.1	0.0	0.0	0.0
67.5°	6117.8	7039.5	10003.3	13888.8	9899.6	4815.9	2779.5	0.0	0.0	0.0
70°	2549.1	3686.8	6215.7	10037.8	7281.4	3153.9	1319.2	0.0	0.0	0.0
72.5°	737.4	1123.3	2799.7	5993.9	4519.2	1650.4	489.7	0.0	0.0	0.0
75°	486.8	512.7	846.8	2410.8	2197.7	604.9	198.7	0.0	0.0	0.0
77.5°	409.0	420.5	538.6	674.0	705.7	239.1	161.3	0.0	0.0	0.0
80°	377.3	380.2	483.9	501.2	377.3	198.7	158.4	0.0	0.0	0.0
82.5°	351.4	342.8	411.9	397.5	314.0	172.8	146.9	0.0	0.0	0.0
85°	241.9	247.7	279.4	354.3	190.1	86.4	103.7	0.0	0.0	0.0
87.5°	74.9	86.4	109.5	112.3	34.6	11.5	0.0	0.0	0.0	0.0
90°	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P579637  
 CATALOG NUMBER: CTN-CA10-760-727-U-T5N-HSS-HM-EX120

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	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
120°	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
125°	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
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	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)