

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: P579388

Luminaire Tested: **CTN-CA10-630-722-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579388  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/18/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: CTN-CA10-630-722-U-T5-HSS-HM-EX120  
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD  
Light Source: (10) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 55284 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B5 - U3 - G5

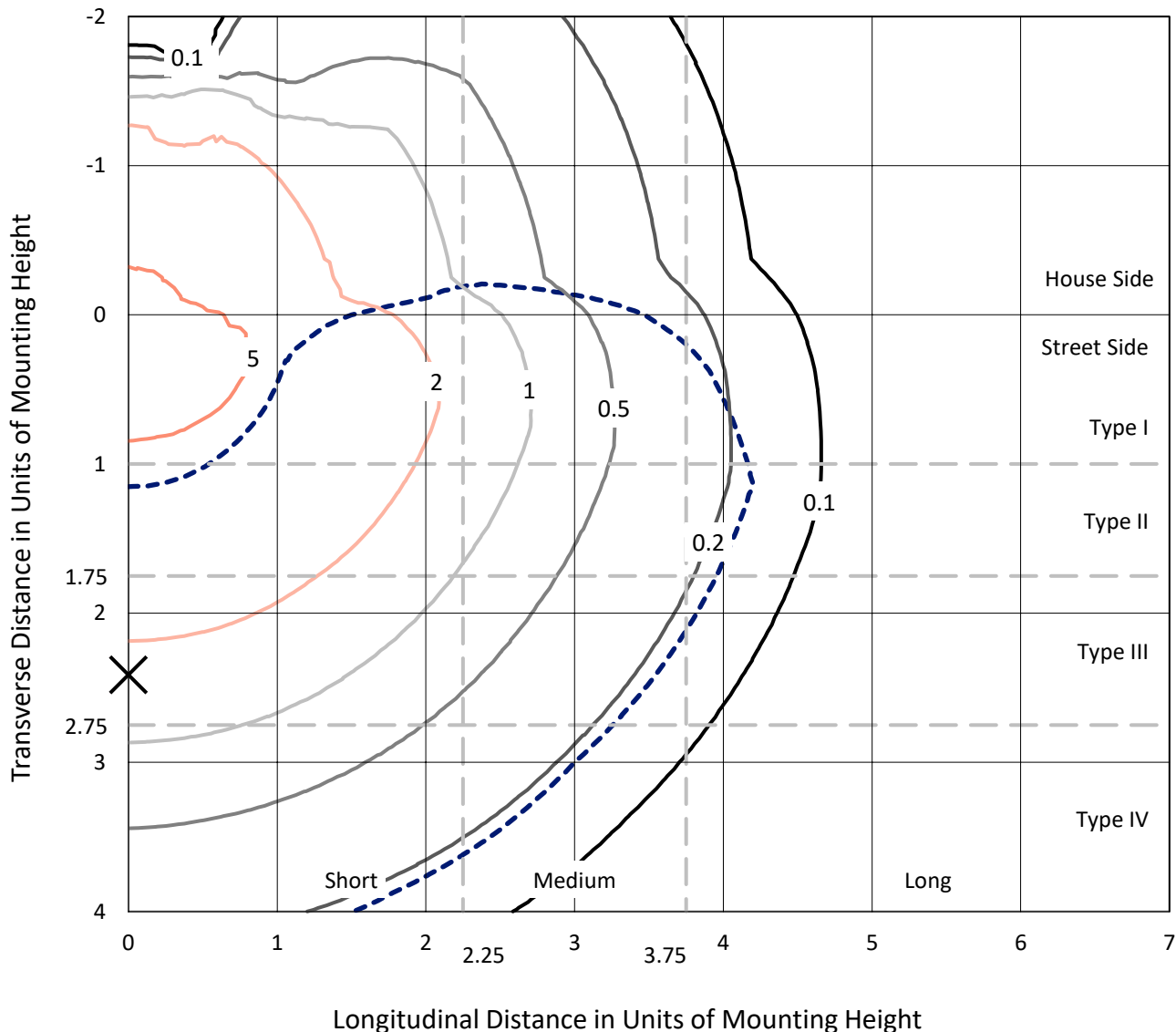
Input Watts (W): 631.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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 CATALOG NUMBER: CTN-CA10-630-722-U-T5-HSS-HM-EX120

### Iso-Footcandle Lines of Horizontal Illumination

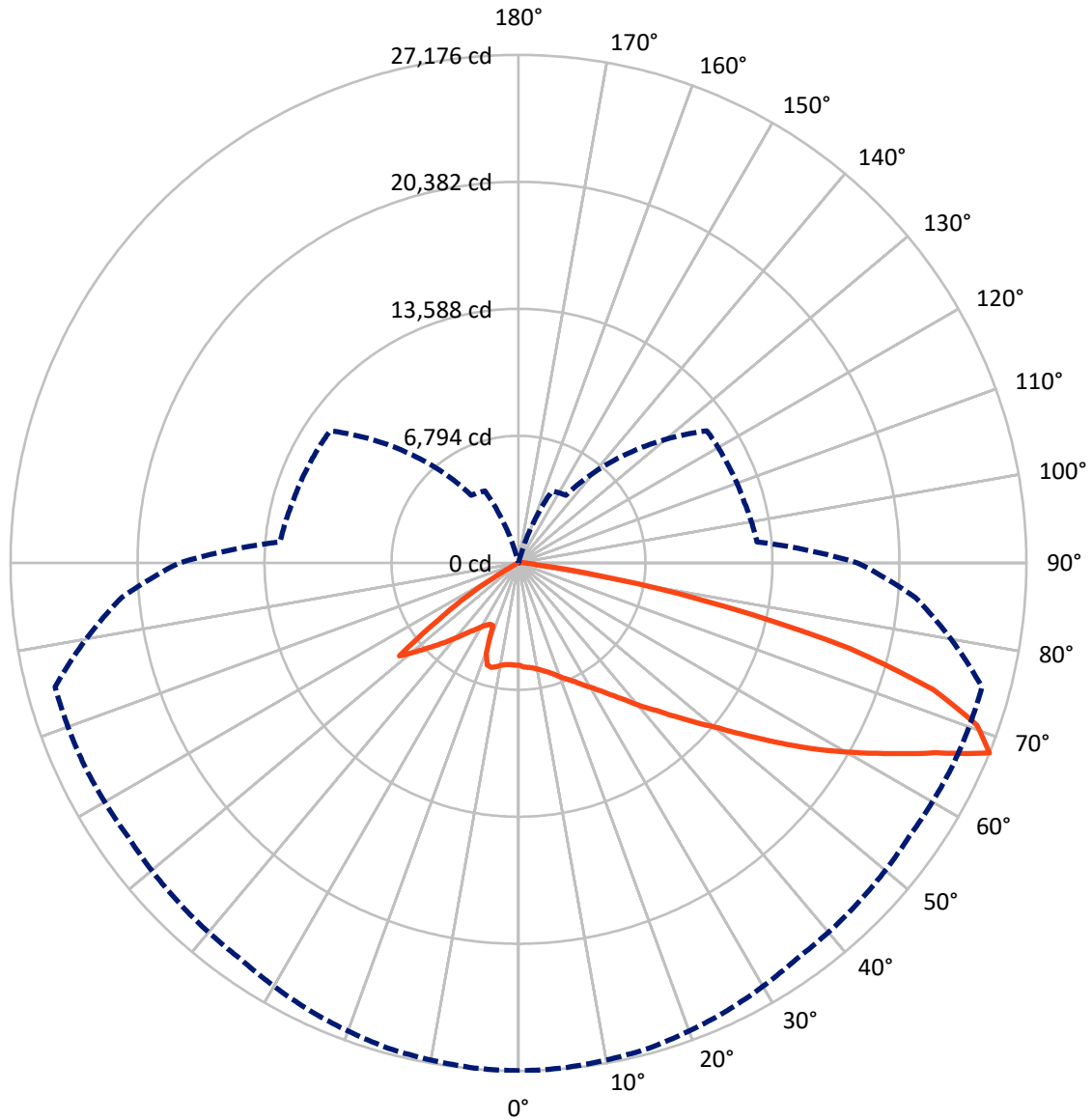
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc  
 Type IV - Short - N/A

REPORT NUMBER: P579388  
CATALOG NUMBER: CTN-CA10-630-722-U-T5-HSS-HM-EX120

### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical



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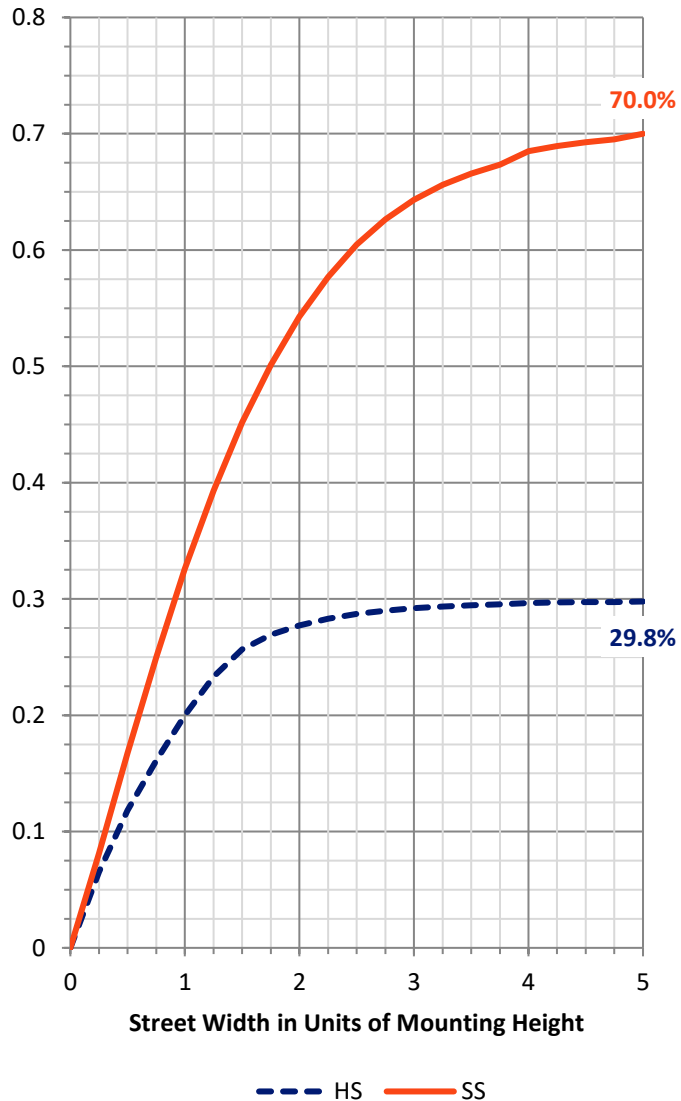
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16502.6	5.5	16508.1
	% Fixture	29.9	0.0	29.9
<b>Street Side</b>	Lumens	38713.6	62.2	38775.9
	% Fixture	70.0	0.1	70.1
<b>Total</b>	Lumens	55216.2	67.8	55284.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	528.1	1.0
10°-20°	1635.0	3.0
20°-30°	2743.8	5.0
30°-40°	4449.2	8.0
40°-50°	7270.5	13.2
50°-60°	11394.2	20.6
60°-70°	15260.3	27.6
70°-80°	11122.7	20.1
80°-90°	812.3	1.5
90°-100°	51.9	0.1
100°-110°	14.8	0.0
110°-120°	1.1	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°	55216.2	99.9
0°-180°	55284.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P579388

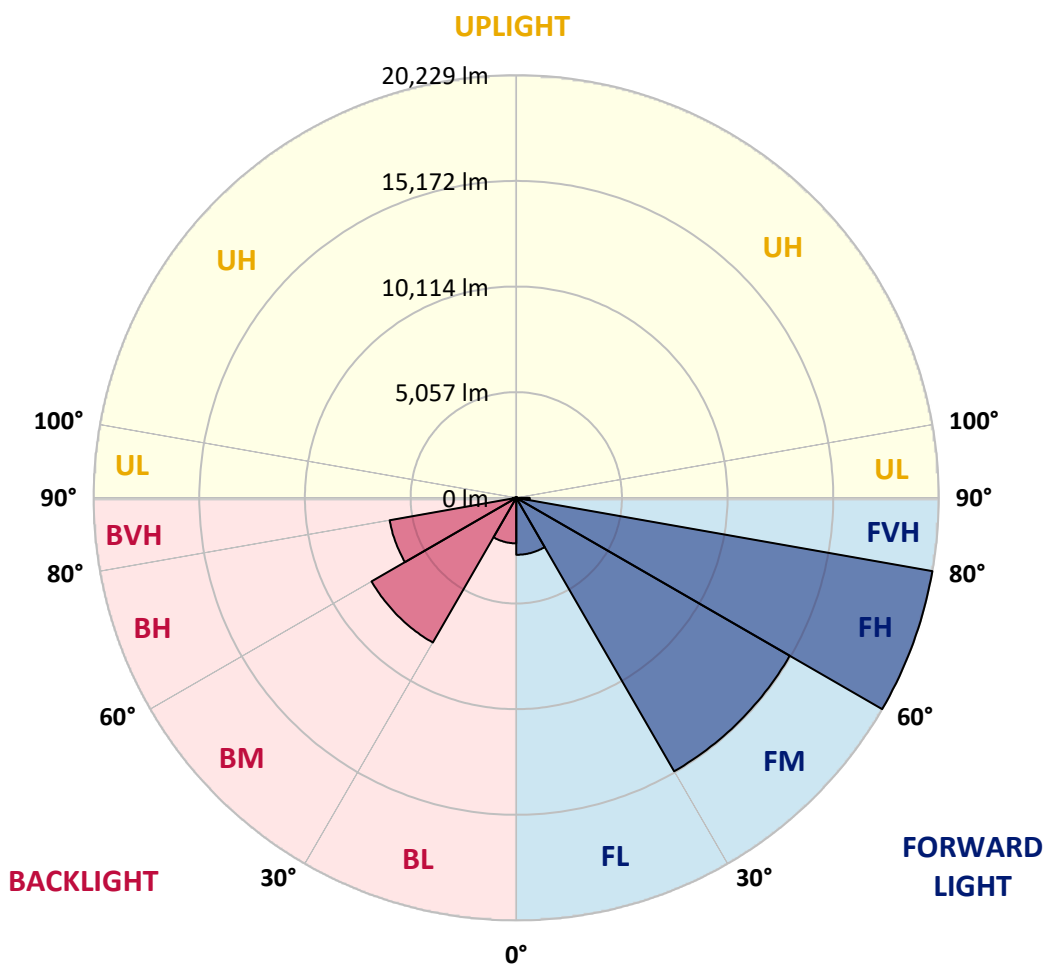
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2726.9	4.9			
FM (30°-60°)	15115.6	27.3			
FH (60°-80°)	20228.8	36.6			G5
FVH (80°-90°)	642.3	1.2			G4/750
BL (0°-30°)	2180.0	3.9	B3/2500		
BM (30°-60°)	7998.3	14.5	B4/8500		
BH (60°-80°)	6154.3	11.1	B5		G5
BVH (80°-90°)	169.9	0.3			G2/225
UL (90°-100°)	51.9	0.1		U3/500	
UH (100°-180°)	15.8	0.0		U2/50	

**BUG Rating: B5-U3-G5**

Type IV Short





REPORT NUMBER: P579388

CATALOG NUMBER: CTN-CA10-630-722-U-T5-HSS-HM-EX120

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5478.0	5478.0	5478.0	5478.0	5478.0	5478.0	5478.0	5478.0	5478.0	5478.0	5478.0
2.5°	5582.6	5550.1	5552.4	5582.6	5492.0	5522.2	5482.7	5512.9	5492.0	5498.9	5512.9
5°	5617.5	5582.6	5584.9	5622.1	5540.8	5566.3	5512.9	5529.1	5510.6	5519.8	5519.8
7.5°	5687.2	5647.7	5645.4	5668.6	5584.9	5594.2	5545.4	5547.7	5519.8	5538.4	5529.1
10°	5791.8	5759.2	5736.0	5749.9	5675.6	5670.9	5608.2	5610.5	5575.6	5596.5	5580.3
12.5°	5919.6	5875.4	5870.8	5875.4	5794.1	5775.5	5710.4	5715.1	5652.3	5684.9	5666.3
15°	6082.3	6012.6	6012.6	6038.1	5933.5	5919.6	5840.6	5845.2	5780.2	5805.7	5787.1
17.5°	6282.2	6214.8	6203.1	6221.7	6131.1	6112.5	6031.2	6026.5	5954.5	5961.4	5945.2
20°	6540.1	6472.7	6444.9	6491.3	6377.5	6363.5	6265.9	6256.6	6179.9	6159.0	6149.7
22.5°	6779.5	6726.1	6712.1	6763.3	6644.7	6633.1	6540.1	6528.5	6456.5	6426.3	6242.7
25°	7049.1	7037.5	7032.9	7049.1	6937.6	6914.3	6842.3	6826.0	6765.6	6728.4	6505.3
27.5°	7397.8	7393.1	7379.2	7381.5	7279.2	7258.3	7190.9	7179.3	7116.5	7074.7	6788.8
30°	7762.6	7762.6	7732.4	7748.7	7697.6	7665.0	7611.6	7569.7	7530.2	7486.1	7125.8
32.5°	8183.3	8181.0	8153.1	8201.9	8164.7	8164.7	8132.2	8088.0	8018.3	7997.4	7560.4
35°	8724.8	8690.0	8678.4	8757.4	8745.8	8766.7	8755.1	8708.6	8650.5	8601.7	8071.8
37.5°	9324.5	9315.2	9350.0	9398.8	9424.4	9480.2	9445.3	9443.0	9433.7	9310.5	7934.6
40°	10063.6	10024.0	10072.9	10098.4	10079.8	10170.5	10140.3	10165.8	10235.5	9245.5	7925.3
42.5°	10800.3	10765.4	10800.3	10925.8	10897.9	11007.2	10993.2	11093.2	11132.7	9382.6	8569.1
45°	11706.7	11667.2	11695.1	11843.9	11857.8	11990.3	12062.3	12157.6	12176.2	10270.4	9345.4
47.5°	12747.9	12682.9	12736.3	12806.0	13017.5	13143.0	13212.8	13329.0	13447.5	11339.5	10228.6
50°	13896.1	13891.4	13949.5	14070.4	14312.1	14437.6	14558.5	14679.3	14874.5	12531.8	11218.7
52.5°	15355.6	15325.4	15425.4	15539.2	15753.1	15946.0	16090.1	16215.6	16424.7	13738.0	12290.1
55°	17024.4	16919.8	17110.4	17303.3	17393.9	17621.7	17721.6	17826.2	18026.1	15007.0	12915.3
57.5°	18825.6	18800.0	18932.5	19002.2	19197.4	19339.2	19392.7	19506.6	19504.2	16327.1	13979.7
60°	20598.9	20571.0	20726.7	20768.6	20924.3	21052.1	21033.5	21135.8	21173.0	17565.9	15023.3
62.5°	22465.2	22418.7	22562.8	22572.1	22479.1	22686.0	22665.1	22751.1	22718.5	18776.8	16050.6
65°	24505.8	24540.7	24587.1	24396.6	24173.4	24352.4	24347.8	24510.4	24626.7	20468.8	17426.5
67.5°	27176.2	27132.1	26892.7	26432.5	25891.0	25709.7	25516.8	25635.3	25667.9	21310.1	18130.7
70°	26023.5	25925.9	25818.9	25349.5	24696.4	24236.2	23936.4	24061.9	24194.4	20138.7	17029.0
72.5°	23213.6	22971.9	22474.5	22060.8	21684.3	21235.7	20870.8	21089.3	21379.8	17863.4	15079.1
75°	18314.3	18088.8	17726.3	17445.0	17242.8	17238.2	17221.9	17391.6	17349.8	14505.0	12259.9
77.5°	11341.8	11813.6	12148.3	11908.9	11992.6	11820.6	12199.4	12422.6	12624.8	10398.2	8734.1
80°	5236.3	5357.2	5949.8	5796.4	5673.2	5638.4	5661.6	6049.8	6163.6	4666.9	3909.2
82.5°	1194.6	1145.8	1187.6	1101.6	1097.0	1045.9	1052.8	1052.8	1015.7	859.9	720.5
85°	604.3	618.2	622.9	597.3	527.6	474.1	439.3	371.9	320.7	274.2	232.4
87.5°	404.4	416.0	423.0	388.1	348.6	304.5	276.6	225.4	179.0	111.6	86.0
90°	276.6	274.2	267.3	248.7	223.1	190.6	153.4	106.9	62.8	23.2	16.3
92.5°	197.6	192.9	190.6	174.3	155.7	130.2	99.9	67.4	34.9	16.3	9.3
95°	130.2	127.8	127.8	118.5	104.6	86.0	67.4	44.2	25.6	13.9	9.3
97.5°	90.6	88.3	88.3	83.7	74.4	62.8	46.5	30.2	20.9	13.9	9.3
100°	62.8	62.8	62.8	58.1	53.5	44.2	34.9	23.2	18.6	13.9	9.3
102.5°	41.8	41.8	44.2	41.8	37.2	30.2	23.2	18.6	16.3	11.6	9.3
105°	27.9	27.9	27.9	27.9	25.6	20.9	18.6	16.3	13.9	11.6	9.3
107.5°	18.6	18.6	18.6	18.6	16.3	13.9	13.9	13.9	11.6	11.6	9.3
110°	11.6	11.6	11.6	13.9	11.6	11.6	11.6	11.6	11.6	9.3	9.3



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 CATALOG NUMBER: CTN-CA10-630-722-U-T5-HSS-HM-EX120

**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°	5478.0	5478.0	5478.0	5478.0	5478.0	5478.0	5478.0	5478.0	5478.0	5478.0
2.5°	5501.3	5468.7	5485.0	5452.4	5438.5	5408.3	5466.4	5471.0	5466.4	5475.7
5°	5508.2	5471.0	5489.6	5452.4	5445.5	5410.6	5468.7	5468.7	5454.8	5461.7
7.5°	5524.5	5485.0	5498.9	5454.8	5454.8	5412.9	5482.7	5478.0	5466.4	5482.7
10°	5580.3	5533.8	5533.8	5492.0	5496.6	5452.4	5538.4	5538.4	5529.1	5557.0
12.5°	5666.3	5608.2	5610.5	5552.4	5561.7	5526.8	5631.4	5636.1	5636.1	5682.5
15°	5777.8	5689.5	5698.8	5636.1	5654.6	5612.8	5705.8	5701.1	5712.8	5780.2
17.5°	5915.0	5817.3	5736.0	5531.5	5410.6	5415.3	5691.8	5819.7	5670.9	5715.1
20°	5973.1	5498.9	5241.0	5166.6	5150.3	4892.3	4364.7	4446.1	4943.5	5159.6
22.5°	5582.6	5431.5	5406.0	5310.7	4606.5	4411.2	4443.8	4397.3	3909.2	3632.6
25°	5773.2	5673.2	5615.1	4776.1	4618.1	4583.2	4560.0	4118.4	3588.5	3614.0
27.5°	6042.8	5912.6	5215.4	4797.0	4827.3	4773.8	4639.0	3704.7	3688.4	3730.3
30°	6361.2	6033.5	5082.9	5043.4	5078.3	5008.5	3899.9	3862.7	3862.7	3904.6
32.5°	6751.6	5473.4	5394.3	5399.0	5375.8	4585.5	4104.4	4095.1	4123.0	4157.9
35°	6642.4	5838.3	5845.2	5884.7	5831.3	4485.6	4425.2	4390.3	4413.6	4427.5
37.5°	6428.6	6386.8	6386.8	6342.6	4978.3	4836.5	4771.5	4766.8	4764.5	4764.5
40°	6967.8	6928.3	6879.5	6802.8	5208.4	5245.6	5148.0	5136.4	5143.3	5168.9
42.5°	7581.4	7565.1	7560.4	5838.3	5687.2	5715.1	5610.5	5580.3	5580.3	5638.4
45°	8304.2	8283.3	7769.6	6240.3	6214.8	6247.3	6131.1	6059.0	6098.6	6140.4
47.5°	9133.9	9133.9	6879.5	6842.3	6842.3	6860.9	6744.7	6647.1	6686.6	6700.5
50°	10042.6	8622.6	7569.7	7534.9	7567.4	7558.1	7437.3	6530.9	7369.9	7376.8
52.5°	10296.0	8385.5	8327.4	8287.9	8327.4	8320.4	8194.9	5447.8	7971.8	8085.7
55°	9126.9	9133.9	9122.3	9064.2	9106.0	9089.7	8966.6	5947.5	5877.8	5238.6
57.5°	9868.3	9877.6	9873.0	9863.7	9900.9	7193.2	9287.3	5373.4	3281.7	3284.0
60°	10674.8	10628.3	10614.4	10593.5	8978.2	5099.2	3869.7	374.2	1282.9	1264.3
62.5°	11406.9	11390.6	11341.8	11330.2	7618.6	4016.1	3923.2	86.0	67.4	65.1
65°	12424.9	12280.8	12241.3	12118.1	8120.6	4276.4	4188.1	25.6	2.3	0.0
67.5°	12803.7	12510.9	12369.1	12304.0	8262.3	4411.2	4241.6	25.6	2.3	0.0
70°	12087.9	11725.3	11546.4	11474.3	7720.8	4123.0	3955.7	25.6	2.3	0.0
72.5°	10719.0	10451.7	10379.6	10149.5	6807.4	3618.7	3472.3	25.6	0.0	0.0
75°	8792.2	8694.6	8606.3	8362.3	5533.8	2875.0	2744.8	23.2	0.0	0.0
77.5°	6398.4	6254.3	6091.6	5826.6	3734.9	1877.9	1810.5	20.9	0.0	0.0
80°	2884.3	2765.7	2726.2	2312.5	1324.8	611.3	539.2	18.6	0.0	0.0
82.5°	560.1	504.3	478.8	460.2	297.5	165.0	144.1	13.9	0.0	0.0
85°	190.6	211.5	246.4	271.9	167.3	99.9	83.7	9.3	0.0	0.0
87.5°	74.4	99.9	120.9	125.5	62.8	41.8	23.2	4.6	0.0	0.0
90°	13.9	18.6	16.3	11.6	7.0	2.3	0.0	0.0	0.0	0.0
92.5°	7.0	9.3	7.0	7.0	4.6	2.3	0.0	0.0	0.0	0.0
95°	9.3	9.3	9.3	7.0	4.6	2.3	0.0	0.0	0.0	0.0
97.5°	9.3	9.3	9.3	7.0	4.6	2.3	0.0	0.0	0.0	0.0
100°	9.3	9.3	9.3	7.0	4.6	2.3	0.0	0.0	0.0	0.0
102.5°	9.3	9.3	9.3	7.0	4.6	2.3	0.0	0.0	0.0	0.0
105°	9.3	11.6	9.3	7.0	4.6	2.3	0.0	0.0	0.0	0.0
107.5°	9.3	11.6	9.3	7.0	4.6	2.3	0.0	0.0	0.0	0.0
110°	9.3	11.6	9.3	7.0	4.6	2.3	0.0	0.0	0.0	0.0



REPORT NUMBER: P579388  
 CATALOG NUMBER: CTN-CA10-630-722-U-T5-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)