

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: P579490

Luminaire Tested: **CTN-CA10-760-740-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579490  
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-CA10-760-740-U-T5-HSS-HM-EX120  
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD  
Light Source: (10) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 78317 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B5 - U3 - G5

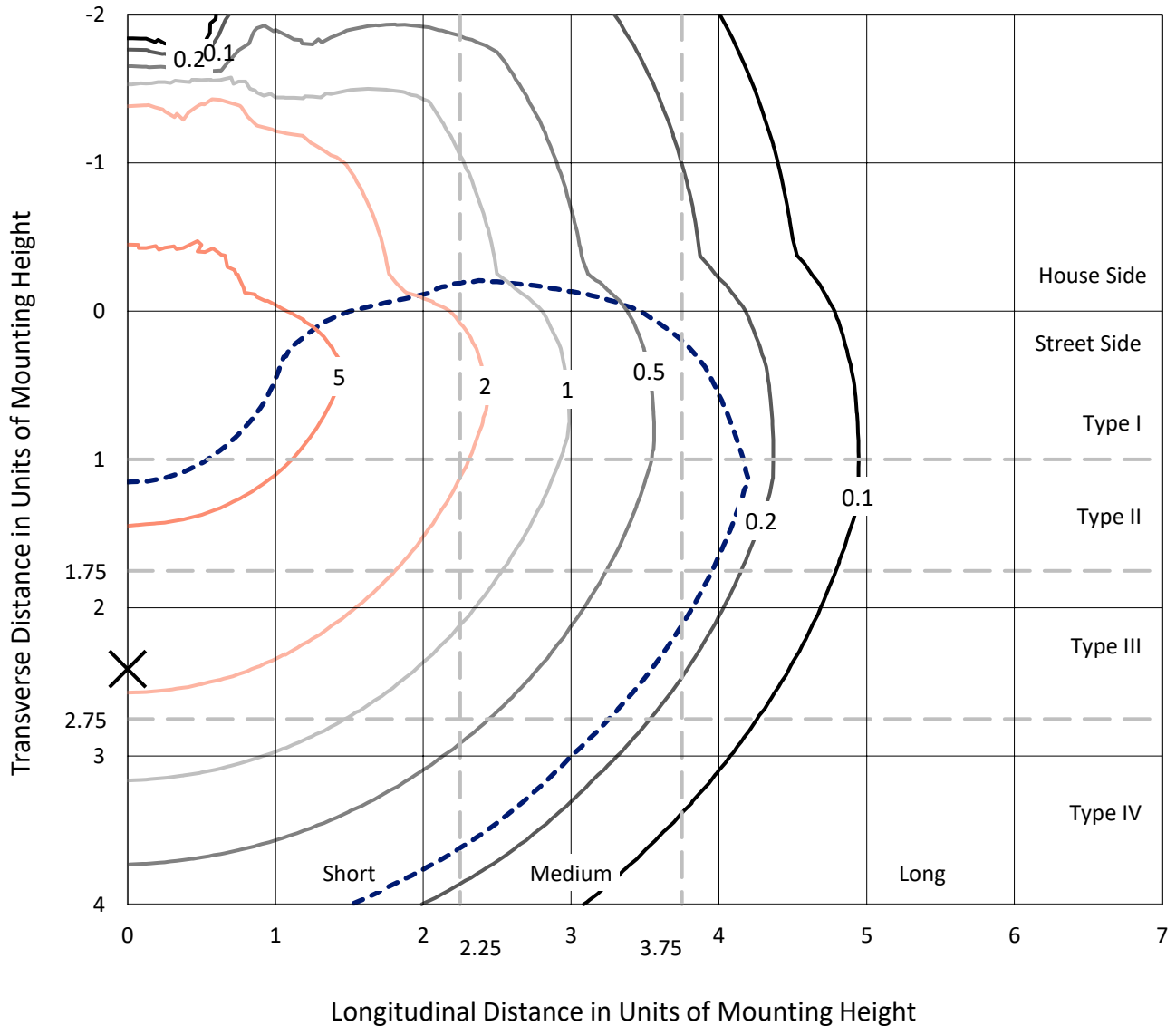
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

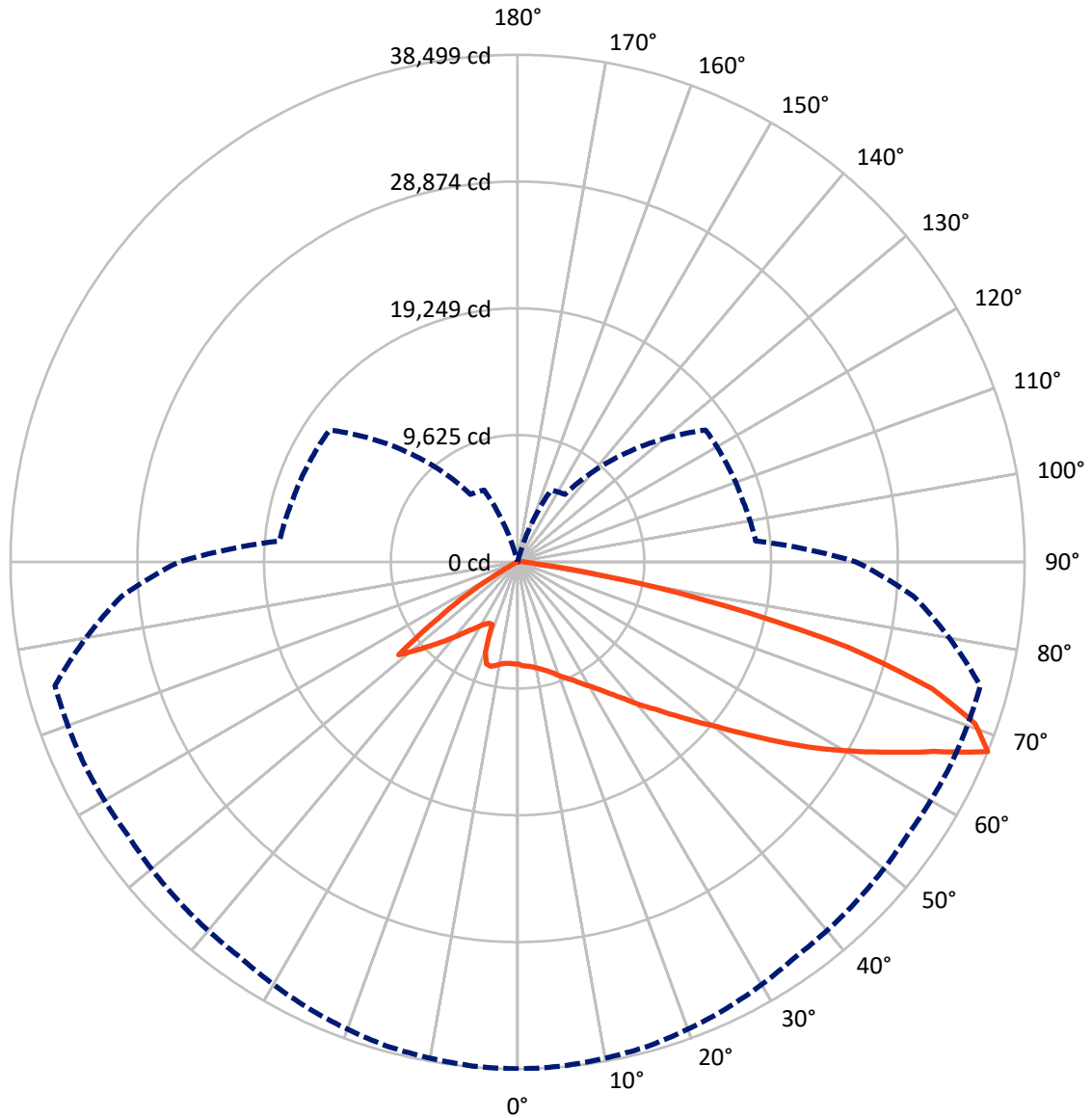
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 fc  
 Type IV - Short - N/A

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CATALOG NUMBER: CTN-CA10-760-740-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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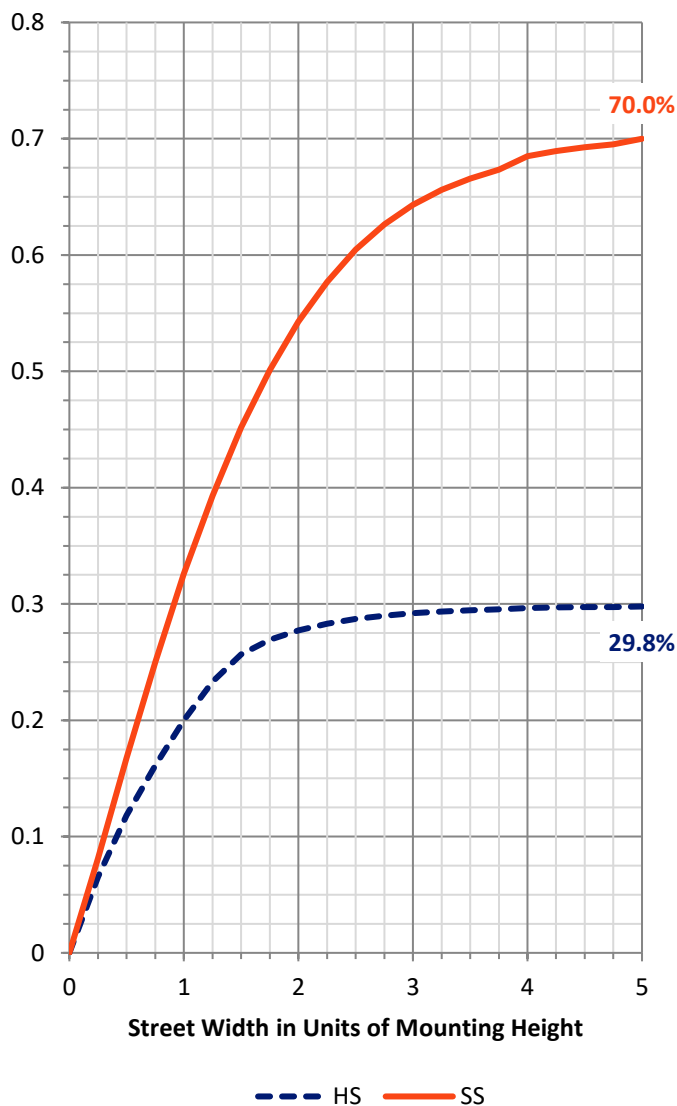
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23378.1	7.9	23385.9
	% Fixture	29.9	0.0	29.9
<b>Street Side</b>	Lumens	54842.9	88.2	54931.1
	% Fixture	70.0	0.1	70.1
<b>Total</b>	Lumens	78221.0	96.0	78317.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	748.2	1.0
10°-20°	2316.2	3.0
20°-30°	3887.0	5.0
30°-40°	6302.9	8.0
40°-50°	10299.6	13.2
50°-60°	16141.4	20.6
60°-70°	21618.3	27.6
70°-80°	15756.8	20.1
80°-90°	1150.7	1.5
90°-100°	73.6	0.1
100°-110°	20.9	0.0
110°-120°	1.5	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°	78221.0	99.9
0°-180°	78317.0	100.0

**Coefficient of Utilization**



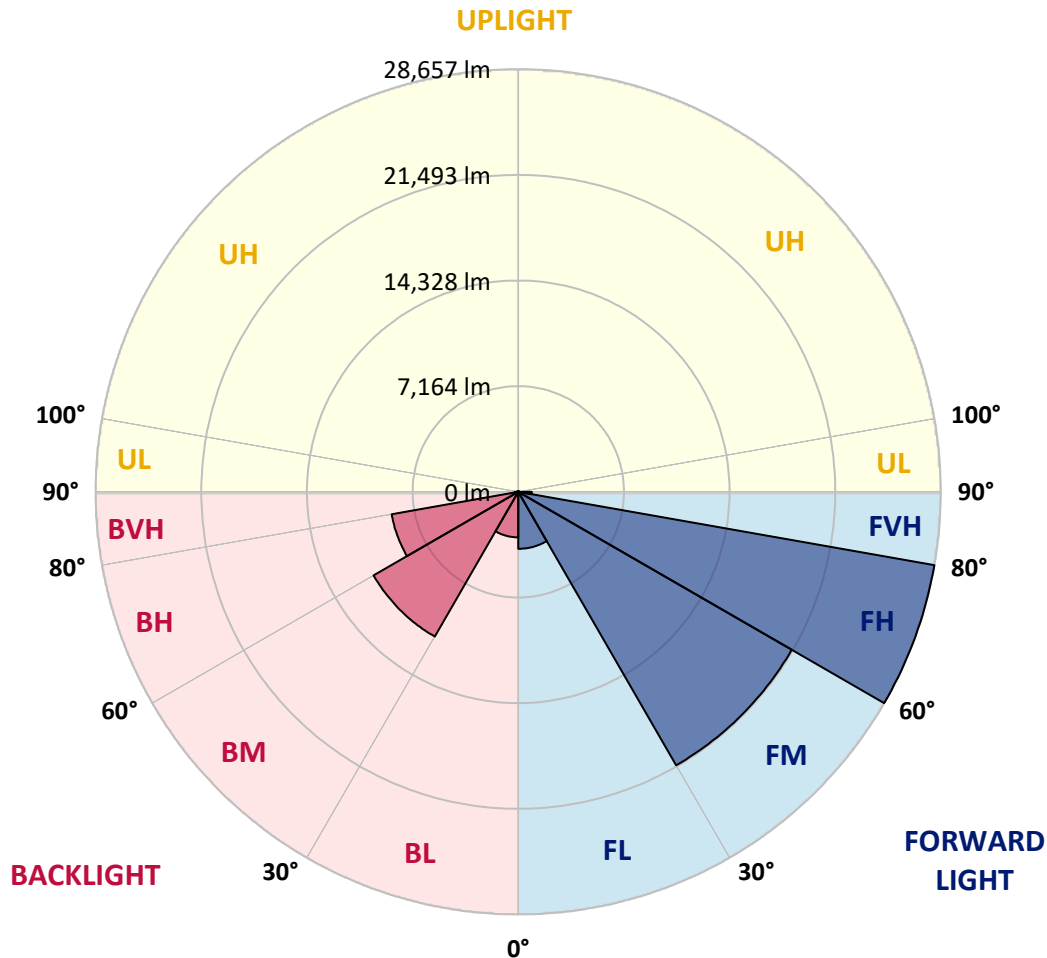
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 CATALOG NUMBER: CTN-CA10-760-740-U-T5-HSS-HM-EX120

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3863.0	4.9			
FM (30°-60°)	21413.3	27.3			
FH (60°-80°)	28656.7	36.6			G5
FVH (80°-90°)	909.9	1.2			G5
BL (0°-30°)	3088.3	3.9	B4/5000		
BM (30°-60°)	11330.7	14.5	B5		
BH (60°-80°)	8718.4	11.1	B5		G5
BVH (80°-90°)	240.7	0.3			G3/500
UL (90°-100°)	73.6	0.1		U3/500	
UH (100°-180°)	22.4	0.0		U2/50	

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

Type IV Short





REPORT NUMBER: P579490

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7760.3	7760.3	7760.3	7760.3	7760.3	7760.3	7760.3	7760.3	7760.3	7760.3	7760.3
2.5°	7908.5	7862.4	7865.7	7908.5	7780.1	7822.9	7766.9	7809.7	7780.1	7790.0	7809.7
5°	7957.9	7908.5	7911.8	7964.5	7849.2	7885.4	7809.7	7832.8	7806.4	7819.6	7819.6
7.5°	8056.6	8000.7	7997.4	8030.3	7911.8	7924.9	7855.8	7859.1	7819.6	7845.9	7832.8
10°	8204.8	8158.7	8125.8	8145.5	8040.2	8033.6	7944.7	7948.0	7898.6	7928.2	7905.2
12.5°	8385.9	8323.3	8316.7	8323.3	8208.1	8181.8	8089.6	8096.2	8007.3	8053.3	8027.0
15°	8616.4	8517.6	8517.6	8553.8	8405.6	8385.9	8273.9	8280.5	8188.3	8224.6	8198.2
17.5°	8899.5	8804.0	8787.6	8813.9	8685.5	8659.2	8543.9	8537.3	8435.3	8445.2	8422.1
20°	9265.0	9169.5	9130.0	9195.8	9034.5	9014.7	8876.5	8863.3	8754.6	8725.0	8711.8
22.5°	9604.1	9528.4	9508.6	9581.0	9413.1	9396.7	9265.0	9248.5	9146.4	9103.6	8843.5
25°	9986.0	9969.6	9963.0	9986.0	9828.0	9795.1	9693.0	9669.9	9584.3	9531.7	9215.6
27.5°	10479.9	10473.3	10453.6	10456.8	10312.0	10282.3	10186.9	10170.4	10081.5	10022.2	9617.3
30°	10996.8	10996.8	10954.0	10977.1	10904.6	10858.5	10782.8	10723.5	10667.6	10605.0	10094.7
32.5°	11592.7	11589.4	11549.9	11619.1	11566.4	11566.4	11520.3	11457.7	11359.0	11329.3	10710.4
35°	12359.9	12310.5	12294.0	12406.0	12389.5	12419.1	12402.7	12336.8	12254.5	12185.4	11434.7
37.5°	13209.3	13196.2	13245.6	13314.7	13350.9	13429.9	13380.5	13377.3	13364.1	13189.6	11240.4
40°	14256.3	14200.4	14269.5	14305.7	14279.4	14407.8	14365.0	14401.2	14500.0	13097.4	11227.3
42.5°	15300.0	15250.7	15300.0	15477.8	15438.3	15593.1	15573.3	15714.9	15770.9	13291.6	12139.3
45°	16584.1	16528.1	16567.6	16778.4	16798.1	16985.8	17087.9	17222.8	17249.2	14549.4	13239.0
47.5°	18059.1	17966.9	18042.7	18141.4	18441.1	18618.8	18717.6	18882.2	19050.2	16063.9	14490.1
50°	19685.6	19679.0	19761.3	19932.5	20274.9	20452.7	20623.9	20795.2	21071.7	17752.9	15892.7
52.5°	21753.3	21710.5	21852.0	22013.4	22316.3	22589.5	22793.7	22971.5	23267.8	19461.7	17410.5
55°	24117.2	23969.1	24239.1	24512.3	24640.7	24963.4	25105.0	25253.1	25536.3	21259.4	18296.2
57.5°	26668.9	26632.7	26820.4	26919.1	27195.7	27396.5	27472.3	27633.6	27630.3	23129.5	19804.1
60°	29181.0	29141.5	29362.1	29421.4	29642.0	29823.1	29796.7	29941.6	29994.3	24884.4	21282.4
62.5°	31824.9	31759.0	31963.2	31976.3	31844.6	32137.7	32108.0	32229.9	32183.8	26599.8	22737.7
65°	34715.7	34765.1	34830.9	34560.9	34244.8	34498.4	34491.8	34722.2	34886.9	28996.7	24686.8
67.5°	38498.7	38436.1	38097.0	37445.1	36678.0	36421.2	36147.9	36315.8	36361.9	30188.5	25684.5
70°	36865.6	36727.4	36575.9	35910.8	34985.6	34333.7	33909.0	34086.8	34274.5	28529.1	24123.8
72.5°	32885.1	32542.6	31838.1	31252.0	30718.6	30083.2	29566.3	29875.8	30287.3	25305.8	21361.5
75°	25944.6	25625.2	25111.6	24713.2	24426.7	24420.2	24397.1	24637.5	24578.2	20548.2	17367.7
77.5°	16067.2	16735.6	17209.7	16870.5	16989.1	16745.4	17282.1	17598.2	17884.6	14730.5	12373.1
80°	7417.9	7589.1	8428.7	8211.4	8036.9	7987.5	8020.4	8570.3	8731.6	6611.3	5537.9
82.5°	1692.3	1623.2	1682.4	1560.6	1554.0	1481.6	1491.5	1491.5	1438.8	1218.2	1020.7
85°	856.0	875.8	882.4	846.2	747.4	671.7	622.3	526.8	454.4	388.5	329.2
87.5°	572.9	589.3	599.2	549.8	493.9	431.3	391.8	319.4	253.5	158.0	121.8
90°	391.8	388.5	378.6	352.3	316.1	270.0	217.3	151.5	88.9	32.9	23.0
92.5°	279.9	273.3	270.0	246.9	220.6	184.4	141.6	95.5	49.4	23.0	13.2
95°	184.4	181.1	181.1	167.9	148.2	121.8	95.5	62.6	36.2	19.8	13.2
97.5°	128.4	125.1	125.1	118.5	105.4	88.9	65.8	42.8	29.6	19.8	13.2
100°	88.9	88.9	88.9	82.3	75.7	62.6	49.4	32.9	26.3	19.8	13.2
102.5°	59.3	59.3	62.6	59.3	52.7	42.8	32.9	26.3	23.0	16.5	13.2
105°	39.5	39.5	39.5	39.5	36.2	29.6	26.3	23.0	19.8	16.5	13.2
107.5°	26.3	26.3	26.3	26.3	23.0	19.8	19.8	19.8	16.5	16.5	13.2
110°	16.5	16.5	16.5	19.8	16.5	16.5	16.5	16.5	16.5	13.2	13.2



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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°	7760.3	7760.3	7760.3	7760.3	7760.3	7760.3	7760.3	7760.3	7760.3	7760.3
2.5°	7793.2	7747.2	7770.2	7724.1	7704.3	7661.5	7743.9	7750.4	7743.9	7757.0
5°	7803.1	7750.4	7776.8	7724.1	7714.2	7664.8	7747.2	7747.2	7727.4	7737.3
7.5°	7826.2	7770.2	7790.0	7727.4	7727.4	7668.1	7766.9	7760.3	7743.9	7766.9
10°	7905.2	7839.3	7839.3	7780.1	7786.7	7724.1	7845.9	7845.9	7832.8	7872.3
12.5°	8027.0	7944.7	7948.0	7865.7	7878.8	7829.5	7977.6	7984.2	7984.2	8050.1
15°	8185.0	8059.9	8073.1	7984.2	8010.5	7951.3	8083.0	8076.4	8092.9	8188.3
17.5°	8379.3	8241.0	8125.8	7836.0	7664.8	7671.4	8063.2	8244.3	8033.6	8096.2
20°	8461.6	7790.0	7424.5	7319.1	7296.1	6930.6	6183.2	6298.5	7003.1	7309.3
22.5°	7908.5	7694.5	7658.3	7523.3	6525.6	6249.1	6295.2	6229.3	5537.9	5146.1
25°	8178.5	8036.9	7954.6	6766.0	6542.1	6492.7	6459.8	5834.2	5083.6	5119.8
27.5°	8560.4	8376.0	7388.3	6795.6	6838.4	6762.7	6571.7	5248.2	5225.1	5284.4
30°	9011.5	8547.2	7200.6	7144.6	7194.0	7095.2	5524.7	5472.1	5472.1	5531.3
32.5°	9564.6	7753.7	7641.8	7648.4	7615.5	6496.0	5814.5	5801.3	5840.8	5890.2
35°	9409.8	8270.7	8280.5	8336.5	8260.8	6354.4	6268.8	6219.5	6252.4	6272.1
37.5°	9106.9	9047.7	9047.7	8985.1	7052.4	6851.6	6759.4	6752.8	6749.5	6749.5
40°	9870.8	9814.8	9745.7	9637.0	7378.4	7431.1	7292.8	7276.3	7286.2	7322.4
42.5°	10740.0	10716.9	10710.4	8270.7	8056.6	8096.2	7948.0	7905.2	7905.2	7987.5
45°	11763.9	11734.3	11006.7	8840.2	8804.0	8850.1	8685.5	8583.4	8639.4	8698.7
47.5°	12939.4	12939.4	9745.7	9693.0	9693.0	9719.3	9554.7	9416.4	9472.4	9492.2
50°	14226.7	12215.0	10723.5	10674.1	10720.2	10707.1	10535.9	9251.8	10440.4	10450.3
52.5°	14585.6	11879.2	11796.9	11740.9	11796.9	11787.0	11609.2	7717.5	11293.1	11454.5
55°	12929.5	12939.4	12922.9	12840.6	12899.8	12876.8	12702.3	8425.4	8326.6	7421.2
57.5°	13979.8	13992.9	13986.4	13973.2	14025.9	10190.2	13156.7	7612.2	4648.9	4652.2
60°	15122.3	15056.4	15036.7	15007.0	12718.8	7223.7	5481.9	530.1	1817.4	1791.1
62.5°	16159.4	16136.3	16067.2	16050.7	10792.7	5689.4	5557.7	121.8	95.5	92.2
65°	17601.5	17397.3	17341.4	17166.9	11503.8	6058.1	5933.0	36.2	3.3	0.0
67.5°	18138.1	17723.3	17522.5	17430.3	11704.7	6249.1	6008.7	36.2	3.3	0.0
70°	17124.1	16610.4	16356.9	16254.9	10937.5	5840.8	5603.8	36.2	3.3	0.0
72.5°	15184.8	14806.2	14704.1	14378.2	9643.6	5126.4	4918.9	36.2	0.0	0.0
75°	12455.4	12317.1	12192.0	11846.3	7839.3	4072.8	3888.4	32.9	0.0	0.0
77.5°	9064.1	8860.0	8629.5	8254.2	5291.0	2660.3	2564.8	29.6	0.0	0.0
80°	4085.9	3918.0	3862.1	3276.0	1876.7	865.9	763.8	26.3	0.0	0.0
82.5°	793.5	714.5	678.2	651.9	421.4	233.8	204.1	19.8	0.0	0.0
85°	270.0	299.6	349.0	385.2	237.1	141.6	118.5	13.2	0.0	0.0
87.5°	105.4	141.6	171.2	177.8	88.9	59.3	32.9	6.6	0.0	0.0
90°	19.8	26.3	23.0	16.5	9.9	3.3	0.0	0.0	0.0	0.0
92.5°	9.9	13.2	9.9	9.9	6.6	3.3	0.0	0.0	0.0	0.0
95°	13.2	13.2	13.2	9.9	6.6	3.3	0.0	0.0	0.0	0.0
97.5°	13.2	13.2	13.2	9.9	6.6	3.3	0.0	0.0	0.0	0.0
100°	13.2	13.2	13.2	9.9	6.6	3.3	0.0	0.0	0.0	0.0
102.5°	13.2	13.2	13.2	9.9	6.6	3.3	0.0	0.0	0.0	0.0
105°	13.2	16.5	13.2	9.9	6.6	3.3	0.0	0.0	0.0	0.0
107.5°	13.2	16.5	13.2	9.9	6.6	3.3	0.0	0.0	0.0	0.0
110°	13.2	16.5	13.2	9.9	6.6	3.3	0.0	0.0	0.0	0.0



REPORT NUMBER: P579490  
 CATALOG NUMBER: CTN-CA10-760-740-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)