

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: P510675

Luminaire Tested: **CTN-CA6-230-750-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA6-230-750-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (6) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36458 lumens
Efficiency: N/A
Efficacy: 160.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

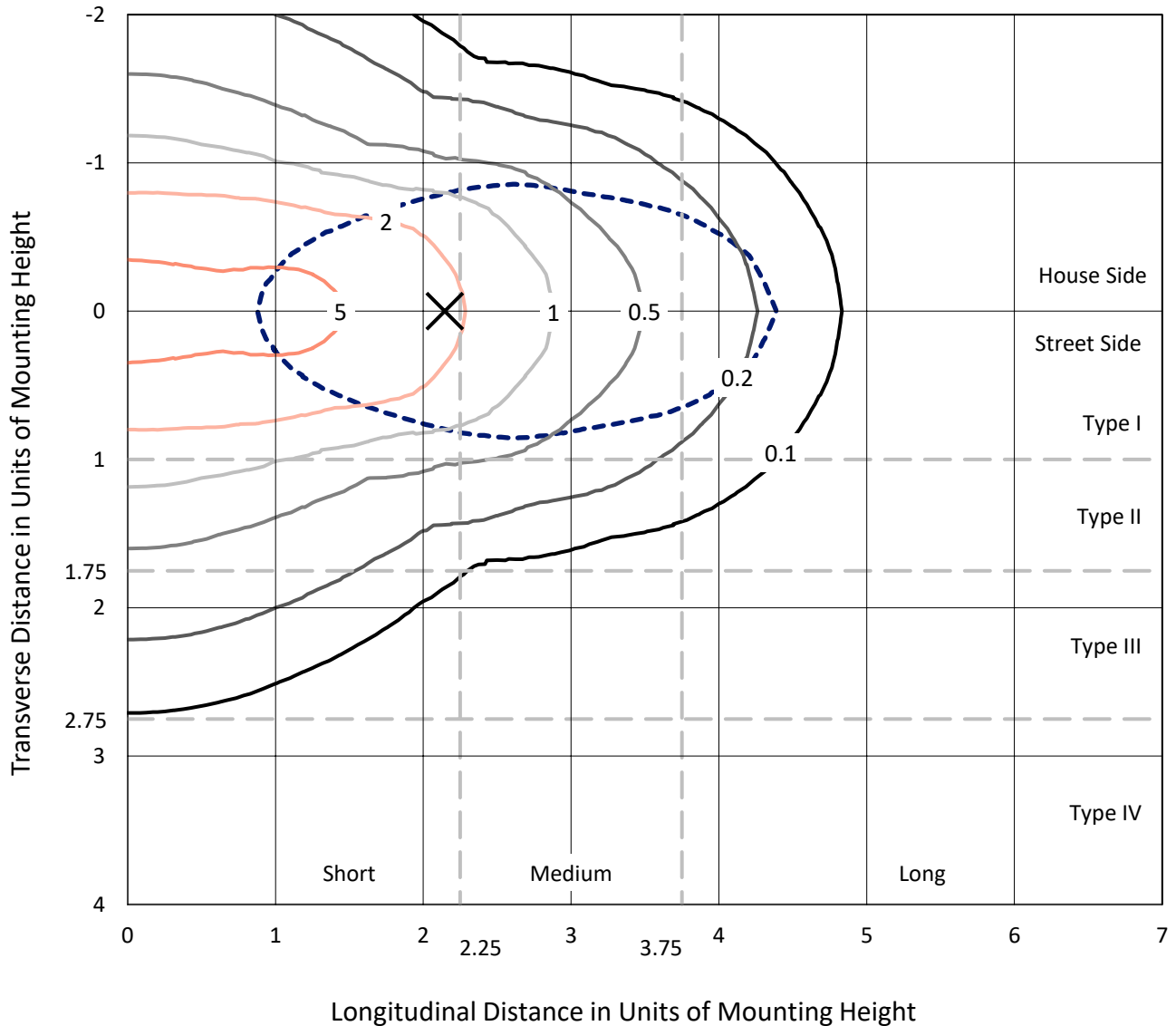
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

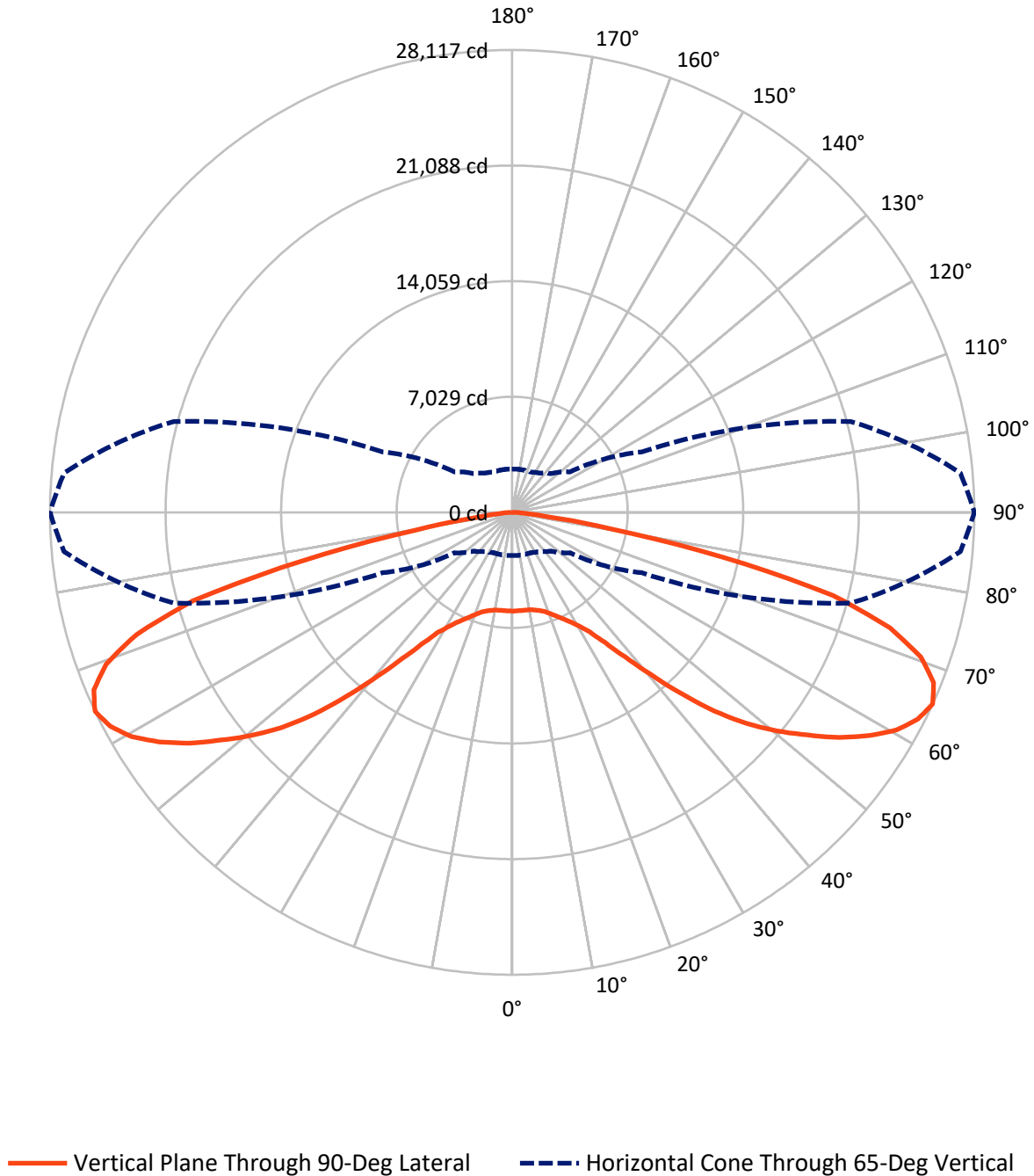
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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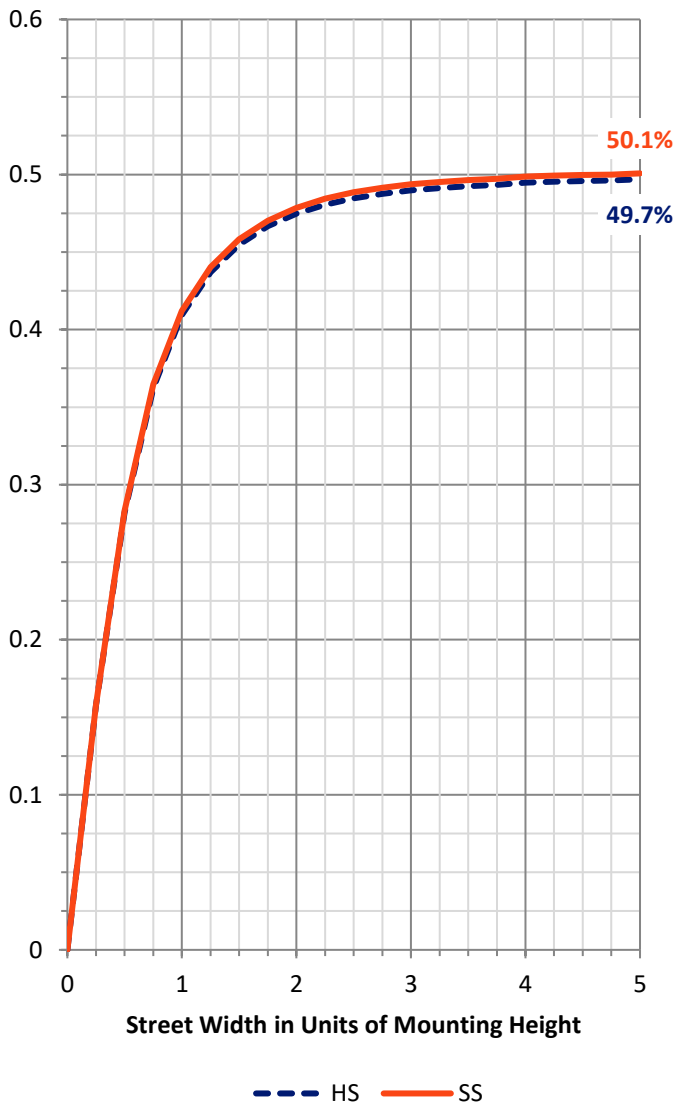
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18229.0	0.0	18229.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18229.0	0.0	18229.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36458.0	0.0	36458.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.0	1.6
10°-20°	1682.0	4.6
20°-30°	2770.7	7.6
30°-40°	4059.4	11.1
40°-50°	6002.3	16.5
50°-60°	7873.5	21.6
60°-70°	8214.3	22.5
70°-80°	4722.8	13.0
80°-90°	563.0	1.5
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°	36458.0	100.0
0°-180°	36458.0	100.0

Coefficient of Utilization

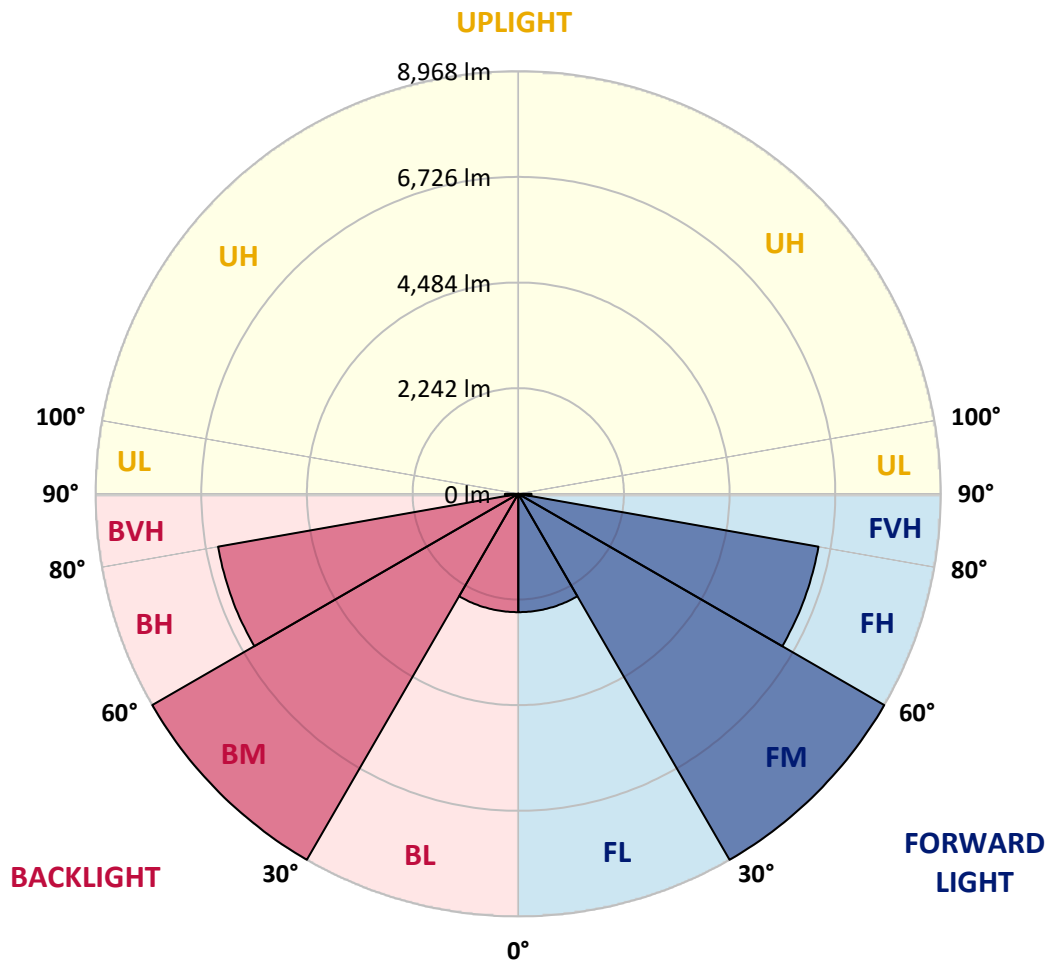


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2511.4	6.9			
FM (30°-60°)	8967.6	24.6			
FH (60°-80°)	6468.5	17.7			G3/7500
FVH (80°-90°)	281.5	0.8			G3/500
BL (0°-30°)	2511.4	6.9	B4/5000		
BM (30°-60°)	8967.6	24.6	B5		
BH (60°-80°)	6468.5	17.7	B5		G5
BVH (80°-90°)	281.5	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3
2.5°	6004.9	6000.6	5999.2	5997.1	6000.6	6003.5	6010.6	6017.0	6015.6	6014.2	6015.6
5°	5971.4	5973.6	5974.3	5975.0	5977.8	5980.0	5990.0	5999.9	5998.5	5997.1	6004.2
7.5°	5924.4	5924.4	5923.0	5921.6	5927.3	5932.2	5942.2	5952.2	5960.0	5967.2	5978.6
10°	5856.0	5853.1	5852.4	5851.7	5858.1	5863.8	5882.4	5900.9	5916.6	5931.5	5950.8
12.5°	5772.6	5771.9	5773.3	5774.8	5788.3	5801.8	5833.2	5864.5	5895.9	5927.3	5955.0
15°	5673.6	5665.0	5672.1	5678.6	5700.6	5722.0	5782.6	5843.2	5890.9	5937.9	5992.1
17.5°	5522.5	5514.0	5524.6	5534.6	5578.8	5623.0	5708.5	5793.3	5883.1	5972.9	6050.5
20°	5293.8	5293.8	5320.8	5347.9	5422.7	5497.6	5615.1	5732.0	5853.1	5974.3	6086.9
22.5°	5050.1	5042.9	5100.7	5158.4	5248.2	5337.2	5485.5	5633.7	5794.0	5953.6	6108.2
25°	4775.0	4787.1	4859.8	4931.8	5057.9	5183.3	5365.7	5547.4	5749.1	5950.8	6165.3
27.5°	4542.7	4544.8	4632.5	4720.1	4878.3	5035.8	5257.4	5479.0	5724.9	5970.7	6240.8
30°	4302.6	4341.8	4434.4	4526.3	4703.0	4879.8	5147.7	5414.9	5706.4	5997.8	6327.0
32.5°	4118.0	4127.3	4232.0	4336.1	4520.6	4705.2	5016.6	5328.0	5677.8	6027.7	6428.2
35°	3944.1	3959.1	4056.7	4154.3	4346.7	4538.4	4879.8	5220.4	5638.7	6056.2	6537.9
37.5°	3789.5	3808.0	3900.7	3993.3	4178.6	4363.8	4725.8	5087.8	5578.1	6068.3	6658.4
40°	3676.2	3691.9	3770.3	3848.7	4016.1	4182.9	4561.9	4940.3	5493.3	6046.3	6753.1
42.5°	3594.3	3601.4	3664.8	3728.2	3877.9	4027.5	4403.0	4777.9	5382.8	5987.8	6826.5
45°	3483.1	3498.8	3561.5	3623.5	3758.2	3892.1	4235.6	4579.0	5218.9	5858.1	6827.2
47.5°	3400.4	3410.4	3469.6	3528.0	3653.4	3778.8	4087.4	4395.9	5033.7	5670.7	6750.3
50°	3339.9	3334.9	3389.7	3443.9	3550.1	3655.5	3930.6	4204.9	4804.2	5403.5	6557.9
52.5°	3253.6	3259.3	3303.5	3347.7	3439.6	3530.8	3777.4	4023.2	4549.8	5075.7	6245.8
55°	3138.2	3164.6	3201.6	3238.0	3318.5	3399.0	3620.6	3842.2	4295.4	4747.9	5843.9
57.5°	3024.9	3044.1	3075.5	3106.9	3170.3	3233.0	3441.8	3650.6	4027.5	4404.5	5336.5
60°	2932.3	2937.3	2957.2	2976.5	3024.9	3073.4	3245.8	3418.3	3747.5	4076.0	4830.6
62.5°	2812.6	2814.0	2827.5	2841.1	2871.0	2900.2	3035.6	3170.3	3451.0	3731.8	4327.5
65°	2625.1	2636.6	2649.4	2661.5	2681.4	2700.7	2804.0	2907.3	3117.5	3327.8	3808.0
67.5°	2435.6	2425.6	2440.6	2455.6	2458.4	2461.3	2539.6	2618.0	2790.5	2962.9	3349.1
70°	2127.1	2134.9	2133.5	2131.3	2119.2	2106.4	2161.3	2216.1	2307.3	2397.8	2677.2
72.5°	1631.1	1620.4	1593.3	1565.5	1552.7	1539.9	1604.0	1667.4	1734.4	1801.4	2003.1
75°	996.9	1027.5	1083.8	1139.4	1160.8	1182.2	1178.6	1174.3	1168.6	1162.9	1414.5
77.5°	675.5	691.9	704.7	716.9	748.2	778.9	814.5	850.1	849.4	848.7	1006.9
80°	429.7	416.9	422.6	428.3	446.1	463.9	518.0	571.5	586.5	600.7	709.7
82.5°	269.4	271.5	278.6	285.0	265.1	245.1	287.2	328.5	364.1	399.0	449.6
85°	174.6	198.1	194.5	191.0	167.5	143.9	181.0	218.0	235.2	251.5	270.8
87.5°	56.3	65.6	67.7	69.1	69.1	68.4	76.2	84.1	86.9	89.1	96.2
90°	0.0	0.0	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	0.0
95°	0.0	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	0.0
100°	0.0	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	0.0
105°	0.0	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	0.0
110°	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):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3
2.5°	6016.3	6009.2	6002.1	5999.9	5997.8	5996.4	5994.9	5993.5
5°	6010.6	6009.2	6007.8	6002.1	5996.4	5995.7	5994.9	5997.1
7.5°	5990.0	5990.0	5990.0	5996.4	6002.8	5999.9	5996.4	6000.6
10°	5969.3	5986.4	6003.5	6008.5	6013.5	6017.0	6020.6	6024.2
12.5°	5982.8	6012.0	6040.6	6056.9	6073.3	6081.9	6089.7	6091.9
15°	6046.3	6083.3	6120.4	6142.5	6163.8	6178.1	6192.3	6195.9
17.5°	6128.2	6185.2	6241.5	6273.6	6305.6	6322.0	6337.7	6332.7
20°	6198.7	6277.1	6355.5	6423.9	6492.3	6530.1	6567.1	6571.4
22.5°	6262.2	6394.0	6525.8	6614.2	6701.8	6768.8	6835.8	6842.9
25°	6379.0	6551.5	6723.9	6865.0	7006.1	7067.4	7128.0	7163.6
27.5°	6510.1	6741.0	6971.9	7160.7	7349.6	7442.9	7535.5	7540.5
30°	6655.5	6948.4	7240.5	7494.2	7747.2	7861.2	7974.5	8034.4
32.5°	6828.0	7199.9	7571.2	7904.7	8238.2	8411.3	8584.5	8645.0
35°	7018.9	7501.3	7983.0	8442.7	8901.6	9232.9	9564.3	9723.9
37.5°	7248.4	7862.6	8476.9	9167.4	9857.8	10422.9	10987.3	11148.3
40°	7460.0	8250.3	9039.8	9998.9	10958.1	11854.5	12750.2	12924.8
42.5°	7665.2	8621.5	9577.8	10886.1	12194.4	13394.4	14594.4	15048.3
45°	7795.6	8952.2	10108.0	11833.1	13558.3	15205.8	16852.5	17233.8
47.5°	7829.1	9188.0	10546.9	12683.9	14821.0	16759.9	18698.1	19187.7
50°	7712.3	9310.6	10908.9	13729.3	16549.0	18523.5	20497.4	20899.3
52.5°	7415.8	9271.4	11127.0	14539.5	17952.1	20042.1	22132.1	22496.9
55°	6939.8	9033.4	11127.0	15206.5	19285.3	21453.0	23619.9	24174.3
57.5°	6268.6	8578.8	10889.0	15651.8	20414.7	22769.1	25123.5	25621.6
60°	5585.2	8037.9	10489.9	15897.7	21305.5	23799.5	26293.5	26875.0
62.5°	4922.5	7303.2	9683.3	15639.7	21596.2	24229.2	26861.5	27698.0
65°	4288.3	6487.3	8686.4	15010.5	21334.0	24351.0	27367.4	28117.0
67.5°	3735.4	5805.4	7875.4	13955.9	20036.4	23375.5	26714.0	27648.2
70°	2956.5	4861.2	6766.0	12086.1	17406.2	21316.9	25227.5	26380.5
72.5°	2204.7	3820.1	5434.9	9507.3	13579.7	18076.8	22573.1	24024.0
75°	1665.3	3051.3	4437.2	7514.9	10592.5	14399.8	18207.2	20148.9
77.5°	1165.1	2204.7	3243.7	5539.6	7835.5	9943.4	12051.2	13085.8
80°	818.0	1394.5	1970.3	3074.8	4178.6	5113.5	6047.7	5973.6
82.5°	499.5	741.8	983.4	1334.0	1684.5	1910.4	2136.3	2126.3
85°	290.0	352.7	414.7	513.8	612.8	724.7	836.6	743.9
87.5°	102.6	102.6	102.6	117.6	132.5	182.4	232.3	245.1
90°	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
95°	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
100°	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
105°	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
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: CTN-CA6-230-750-U-T1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	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
117.5°	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
122.5°	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
127.5°	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
132.5°	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
137.5°	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
142.5°	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
147.5°	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
152.5°	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
157.5°	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
162.5°	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
167.5°	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
172.5°	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
177.5°	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

(END OF REPORT)