

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: P510655

Luminaire Tested: **CTN-CA6-230-730-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510655
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-CA6-230-730-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (6) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35153 lumens
Efficiency: N/A
Efficacy: 154.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

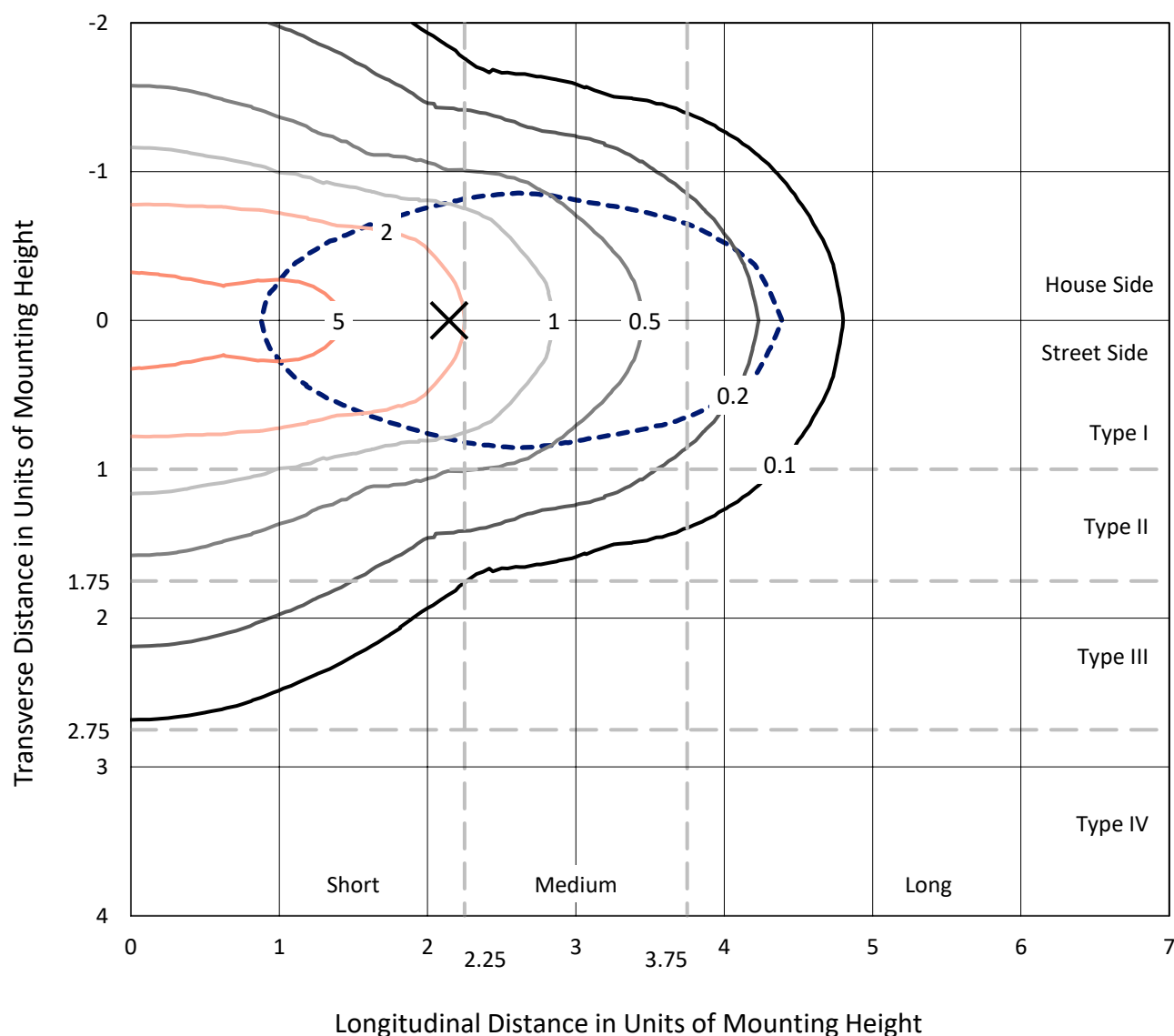
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

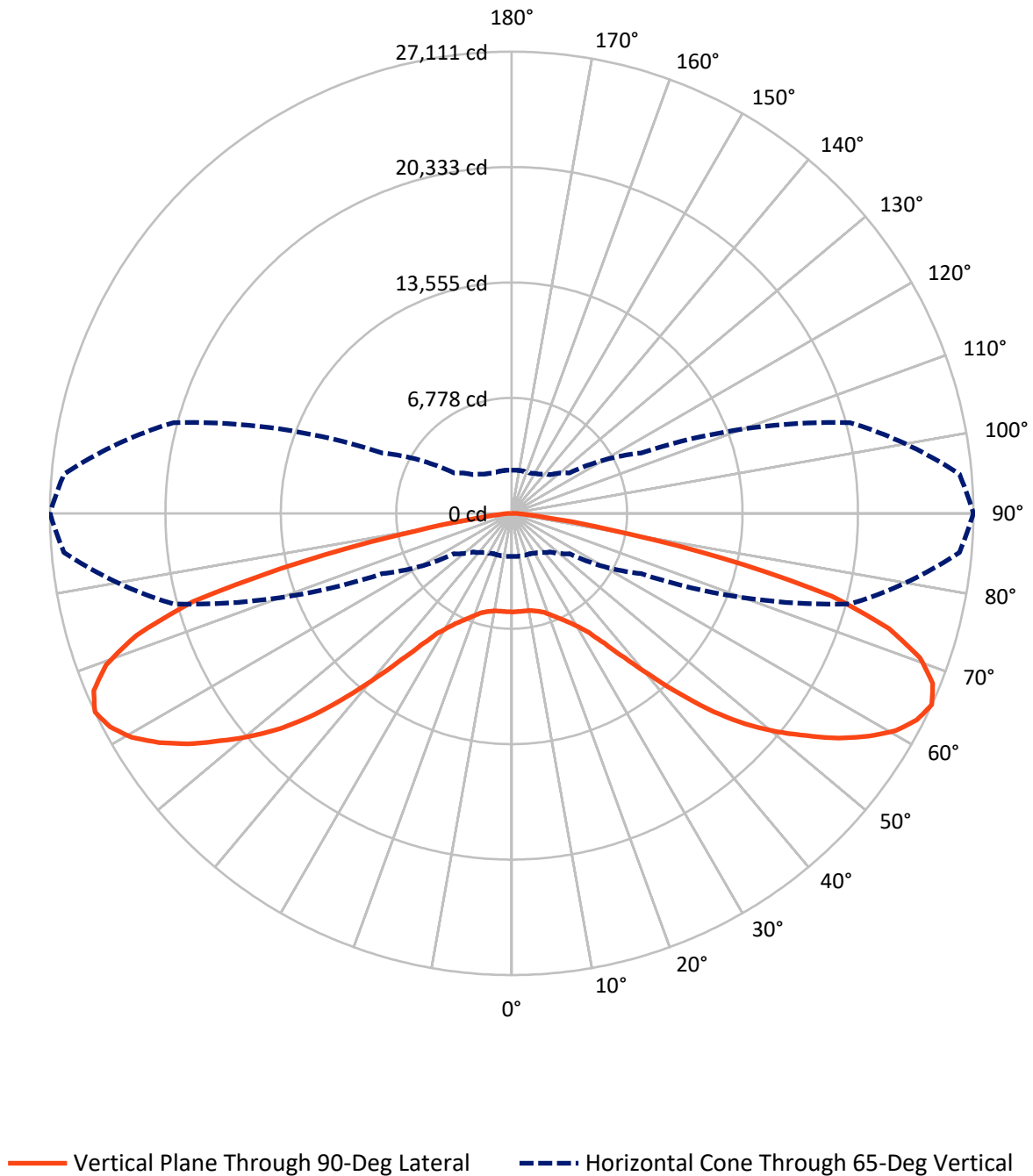
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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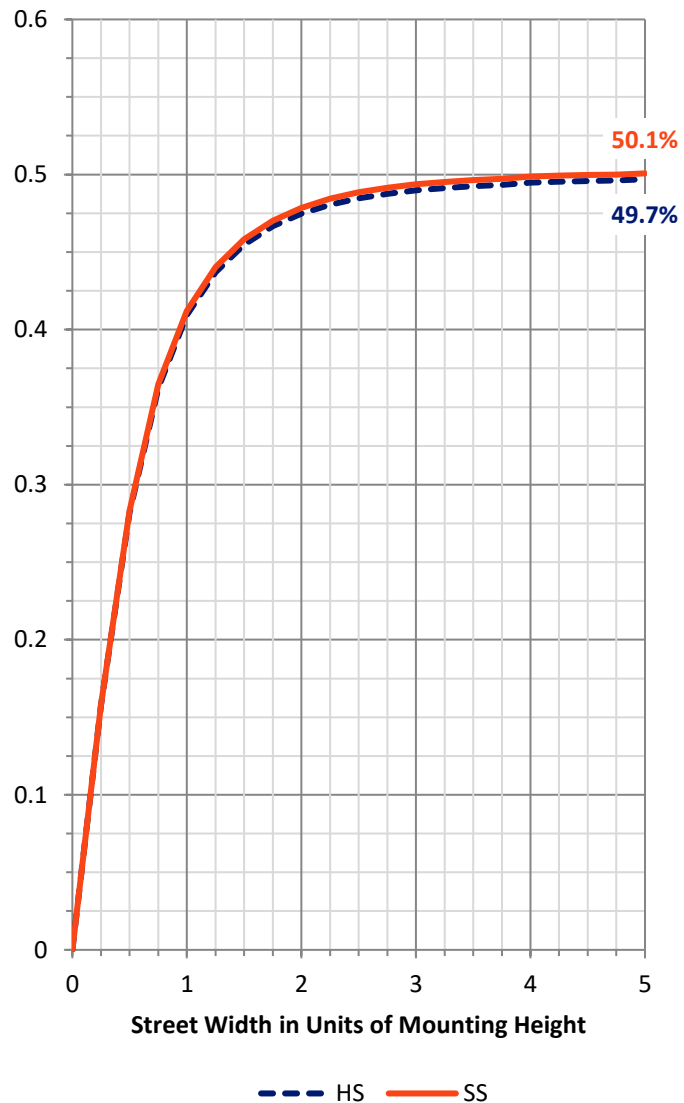
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17576.5	0.0	17576.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17576.5	0.0	17576.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	35153.0	0.0	35153.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.6	1.6
10°-20°	1621.8	4.6
20°-30°	2671.5	7.6
30°-40°	3914.1	11.1
40°-50°	5787.5	16.5
50°-60°	7591.7	21.6
60°-70°	7920.3	22.5
70°-80°	4553.7	13.0
80°-90°	542.8	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°	35153.0	100.0
0°-180°	35153.0	100.0

Coefficient of Utilization



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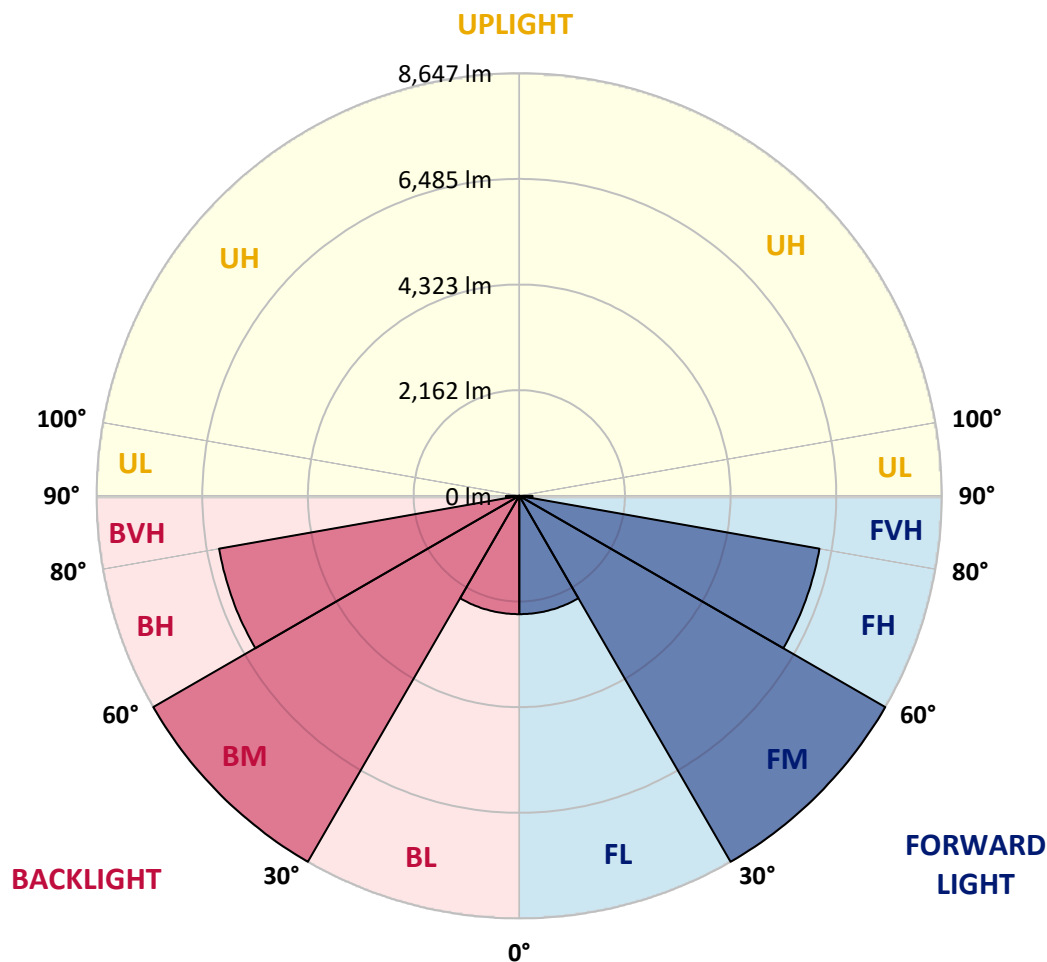
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2421.5	6.9			
FM	(30°-60°)	8646.6	24.6			
FH	(60°-80°)	6237.0	17.7			G3/7500
FVH	(80°-90°)	271.4	0.8			G3/500
BL	(0°-30°)	2421.5	6.9	B3/2500		
BM	(30°-60°)	8646.6	24.6	B5		
BH	(60°-80°)	6237.0	17.7	B5		G5
BVH	(80°-90°)	271.4	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°	5791.4	5791.4	5791.4	5791.4	5791.4	5791.4	5791.4	5791.4	5791.4	5791.4	5791.4
2.5°	5790.0	5785.9	5784.5	5782.4	5785.9	5788.6	5795.5	5801.7	5800.3	5798.9	5800.3
5°	5757.7	5759.7	5760.4	5761.1	5763.9	5765.9	5775.5	5785.2	5783.8	5782.4	5789.3
7.5°	5712.3	5712.3	5711.0	5709.6	5715.1	5719.9	5729.5	5739.1	5746.7	5753.6	5764.6
10°	5646.4	5643.6	5642.9	5642.3	5648.4	5653.9	5671.8	5689.7	5704.8	5719.2	5737.8
12.5°	5566.0	5565.3	5566.7	5568.1	5581.1	5594.2	5624.4	5654.6	5684.9	5715.1	5741.9
15°	5470.5	5462.2	5469.1	5475.3	5496.6	5517.2	5575.6	5634.0	5680.0	5725.4	5777.6
17.5°	5324.8	5316.6	5326.9	5336.5	5379.1	5421.7	5504.2	5585.9	5672.5	5759.1	5834.0
20°	5104.3	5104.3	5130.4	5156.5	5228.6	5300.8	5414.1	5526.8	5643.6	5760.4	5869.0
22.5°	4869.3	4862.4	4918.1	4973.7	5060.3	5146.2	5289.1	5432.0	5586.6	5740.5	5889.6
25°	4604.1	4615.8	4685.8	4755.2	4876.9	4997.8	5173.7	5348.9	5543.3	5737.8	5944.6
27.5°	4380.1	4382.2	4466.7	4551.2	4703.7	4855.6	5069.2	5282.9	5520.0	5757.0	6017.4
30°	4148.6	4186.3	4275.7	4364.3	4534.7	4705.1	4963.4	5221.1	5502.1	5783.1	6100.5
32.5°	3970.6	3979.5	4080.5	4180.8	4358.8	4536.8	4837.0	5137.3	5474.6	5812.0	6198.1
35°	3803.0	3817.4	3911.5	4005.6	4191.2	4376.0	4705.1	5033.5	5436.8	5839.4	6303.9
37.5°	3653.9	3671.7	3761.0	3850.4	4029.0	4207.6	4556.7	4905.7	5378.4	5851.1	6420.0
40°	3544.6	3559.7	3635.3	3710.9	3872.4	4033.1	4398.7	4763.5	5296.7	5829.8	6511.4
42.5°	3465.6	3472.5	3533.6	3594.8	3739.1	3883.3	4245.4	4606.8	5190.2	5773.5	6582.2
45°	3358.4	3373.5	3434.0	3493.8	3623.6	3752.8	4084.0	4415.1	5032.1	5648.4	6582.9
47.5°	3278.7	3288.3	3345.4	3401.7	3522.6	3643.6	3941.1	4238.6	4853.5	5467.7	6508.7
50°	3220.3	3215.5	3268.4	3320.6	3423.0	3524.7	3789.9	4054.4	4632.3	5210.1	6323.1
52.5°	3137.2	3142.7	3185.3	3227.9	3316.5	3404.5	3642.2	3879.2	4387.0	4894.0	6022.2
55°	3025.9	3051.3	3087.0	3122.1	3199.7	3277.3	3491.0	3704.7	4141.7	4578.0	5634.7
57.5°	2916.6	2935.2	2965.4	2995.6	3056.8	3117.3	3318.6	3519.9	3883.3	4246.8	5145.5
60°	2827.3	2832.1	2851.4	2869.9	2916.6	2963.4	3129.6	3295.9	3613.3	3930.1	4657.7
62.5°	2711.9	2713.3	2726.3	2739.4	2768.2	2796.4	2926.9	3056.8	3327.5	3598.2	4172.6
65°	2531.2	2542.2	2554.5	2566.2	2585.5	2604.0	2703.6	2803.3	3006.0	3208.6	3671.7
67.5°	2348.4	2338.8	2353.2	2367.7	2370.4	2373.2	2448.7	2524.3	2690.6	2856.9	3229.3
70°	2050.9	2058.5	2057.1	2055.0	2043.4	2031.0	2083.9	2136.8	2224.7	2312.0	2581.3
72.5°	1572.7	1562.4	1536.3	1509.5	1497.1	1484.8	1546.6	1607.8	1672.3	1736.9	1931.4
75°	961.2	990.8	1045.0	1098.6	1119.2	1139.9	1136.4	1132.3	1126.8	1121.3	1363.8
77.5°	651.3	667.1	679.5	691.2	721.4	751.0	785.3	819.7	819.0	818.3	970.8
80°	414.3	401.9	407.4	412.9	430.1	447.3	499.5	551.0	565.5	579.2	684.3
82.5°	259.7	261.8	268.6	274.8	255.6	236.4	276.9	316.7	351.1	384.8	433.5
85°	168.3	191.0	187.6	184.1	161.5	138.8	174.5	210.2	226.7	242.5	261.1
87.5°	54.3	63.2	65.3	66.6	66.6	66.0	73.5	81.1	83.8	85.9	92.8
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°	5791.4	5791.4	5791.4	5791.4	5791.4	5791.4	5791.4	5791.4
2.5°	5801.0	5794.1	5787.2	5785.2	5783.1	5781.7	5780.4	5779.0
5°	5795.5	5794.1	5792.7	5787.2	5781.7	5781.0	5780.4	5782.4
7.5°	5775.5	5775.5	5775.5	5781.7	5787.9	5785.2	5781.7	5785.9
10°	5755.6	5772.1	5788.6	5793.4	5798.2	5801.7	5805.1	5808.5
12.5°	5768.7	5796.8	5824.3	5840.1	5855.9	5864.2	5871.7	5873.8
15°	5829.8	5865.6	5901.3	5922.6	5943.2	5956.9	5970.7	5974.1
17.5°	5908.8	5963.8	6018.1	6049.0	6079.9	6095.7	6110.8	6106.0
20°	5976.9	6052.4	6128.0	6194.0	6259.9	6296.4	6332.1	6336.2
22.5°	6038.0	6165.1	6292.2	6377.4	6461.9	6526.5	6591.1	6598.0
25°	6150.7	6317.0	6483.2	6619.3	6755.3	6814.4	6872.8	6907.2
27.5°	6277.1	6499.7	6722.3	6904.4	7086.5	7176.5	7265.8	7270.6
30°	6417.3	6699.7	6981.4	7226.0	7469.9	7579.8	7689.1	7746.8
32.5°	6583.5	6942.2	7300.2	7621.7	7943.3	8110.2	8277.2	8335.6
35°	6767.7	7232.8	7697.3	8140.5	8582.9	8902.4	9221.9	9375.8
37.5°	6988.9	7581.2	8173.4	8839.2	9505.0	10049.8	10594.0	10749.3
40°	7193.0	7955.0	8716.2	9641.0	10565.8	11430.2	12293.8	12462.2
42.5°	7390.9	8312.9	9235.0	10496.4	11757.9	12914.9	14072.0	14509.6
45°	7516.6	8631.7	9746.2	11409.6	13073.0	14661.5	16249.3	16616.9
47.5°	7548.9	8859.1	10169.4	12229.9	14290.5	16160.0	18028.8	18500.9
50°	7436.2	8977.3	10518.4	13237.9	15956.6	17860.5	19763.7	20151.2
52.5°	7150.4	8939.5	10728.7	14019.1	17309.5	19324.7	21339.9	21691.6
55°	6691.4	8710.0	10728.7	14662.2	18595.0	20685.1	22774.5	23309.0
57.5°	6044.2	8271.7	10499.2	15091.6	19684.0	21954.1	24224.2	24704.5
60°	5385.3	7750.2	10114.4	15328.6	20542.8	22947.6	25352.4	25913.0
62.5°	4746.3	7041.8	9336.7	15079.9	20823.2	23361.9	25900.0	26706.6
65°	4134.8	6255.1	8375.4	14473.2	20570.3	23479.4	26387.8	27110.6
67.5°	3601.6	5597.6	7593.5	13456.4	19319.2	22538.8	25757.7	26658.5
70°	2850.7	4687.2	6523.8	11653.5	16783.2	20553.8	24324.5	25436.2
72.5°	2125.8	3683.4	5240.3	9167.0	13093.6	17429.7	21765.2	23164.0
75°	1605.7	2942.1	4278.4	7245.9	10213.4	13884.4	17555.4	19427.7
77.5°	1123.4	2125.8	3127.6	5341.3	7555.1	9587.4	11619.8	12617.4
80°	788.8	1344.6	1899.8	2964.7	4029.0	4930.4	5831.2	5759.7
82.5°	481.6	715.2	948.2	1286.2	1624.2	1842.0	2059.8	2050.2
85°	279.6	340.1	399.9	495.4	590.9	698.8	806.6	717.3
87.5°	98.9	98.9	98.9	113.4	127.8	175.9	224.0	236.4
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-CA6-230-730-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)