

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: P510535

Luminaire Tested: **CTN-CA10-630-730-U-T1**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510535  
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-CA10-630-730-U-T1  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 94141 lumens  
Efficiency: N/A  
Efficacy: 149.1 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

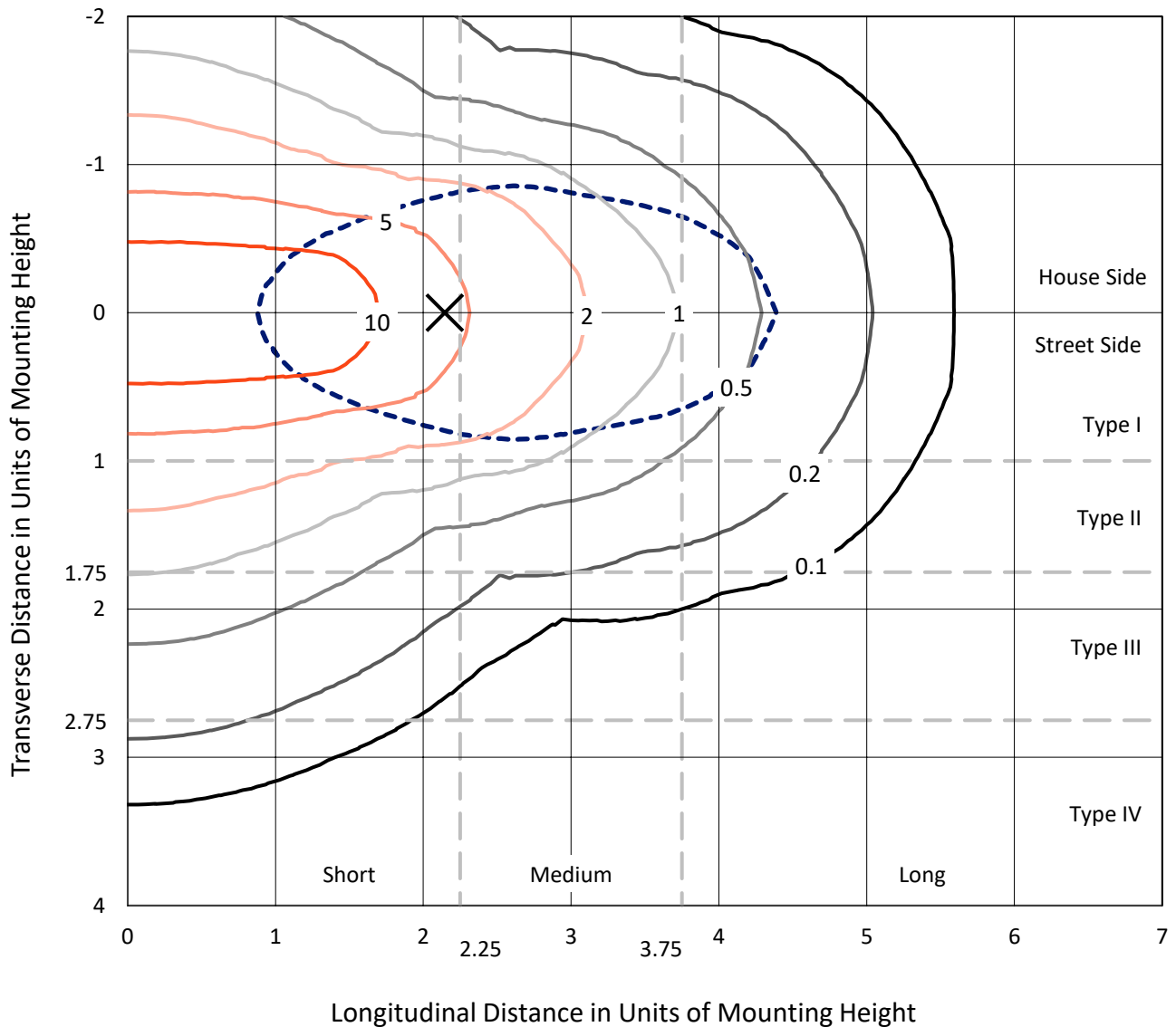
Input Watts (W): 631.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

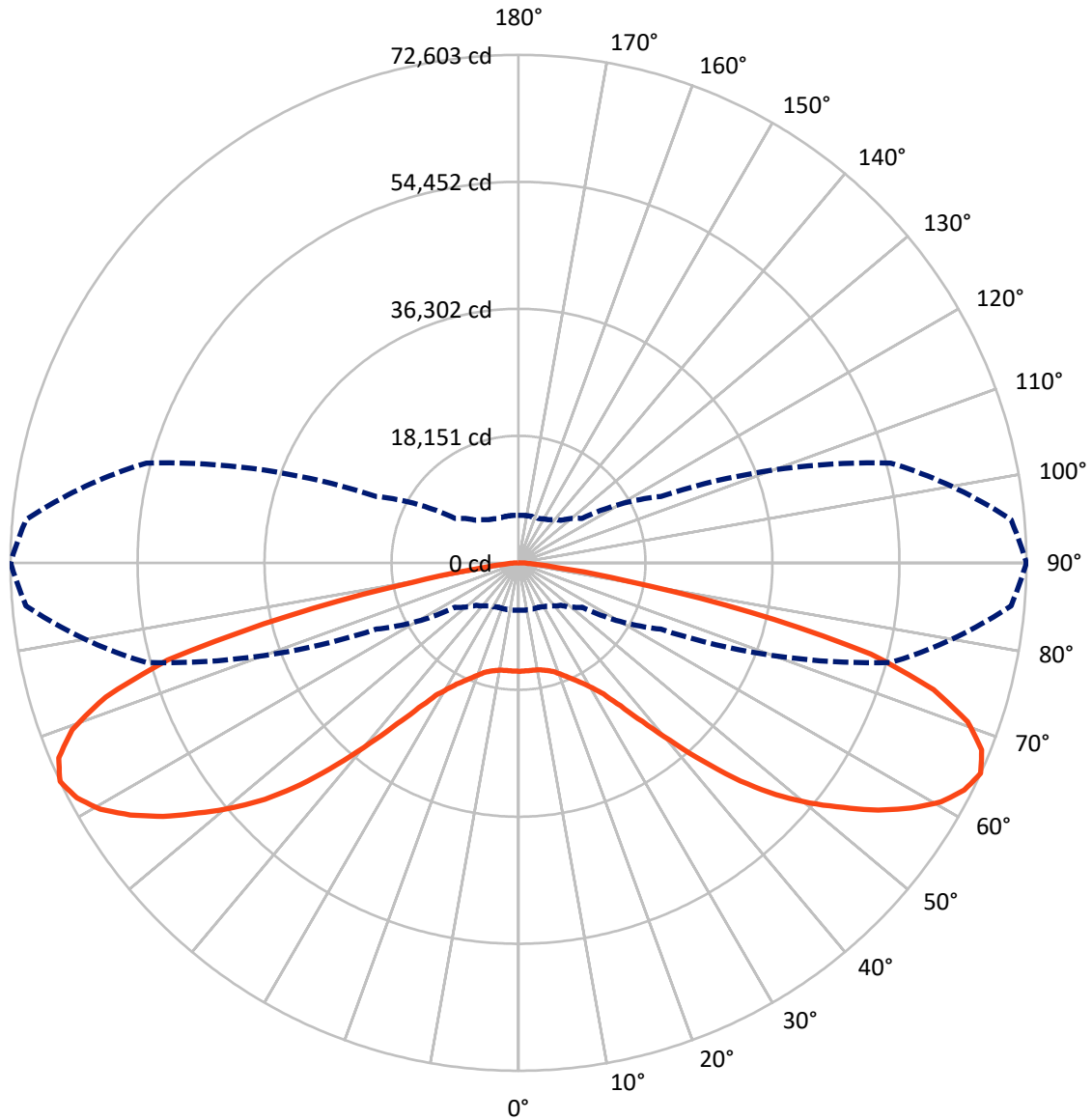
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.5 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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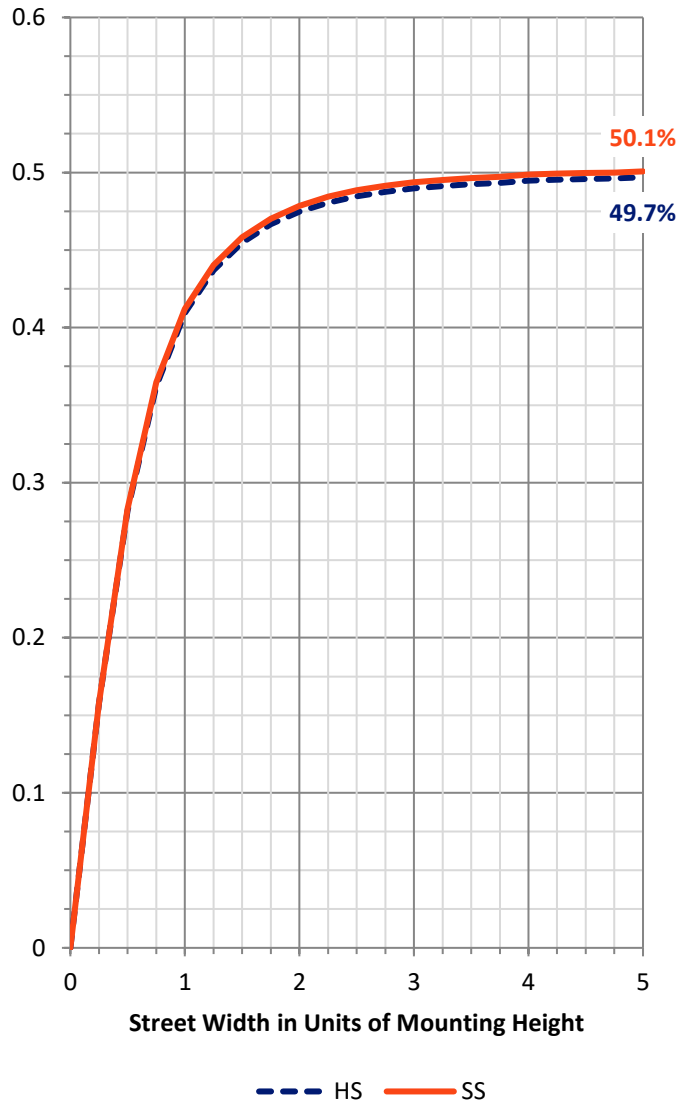
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	47070.5	0.0	47070.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	47070.5	0.0	47070.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	94141.0	0.0	94141.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1471.8	1.6
10°-20°	4343.3	4.6
20°-30°	7154.5	7.6
30°-40°	10482.2	11.1
40°-50°	15499.0	16.5
50°-60°	20330.7	21.6
60°-70°	21210.7	22.5
70°-80°	12195.0	13.0
80°-90°	1453.8	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°	94141.0	100.0
0°-180°	94141.0	100.0

**Coefficient of Utilization**

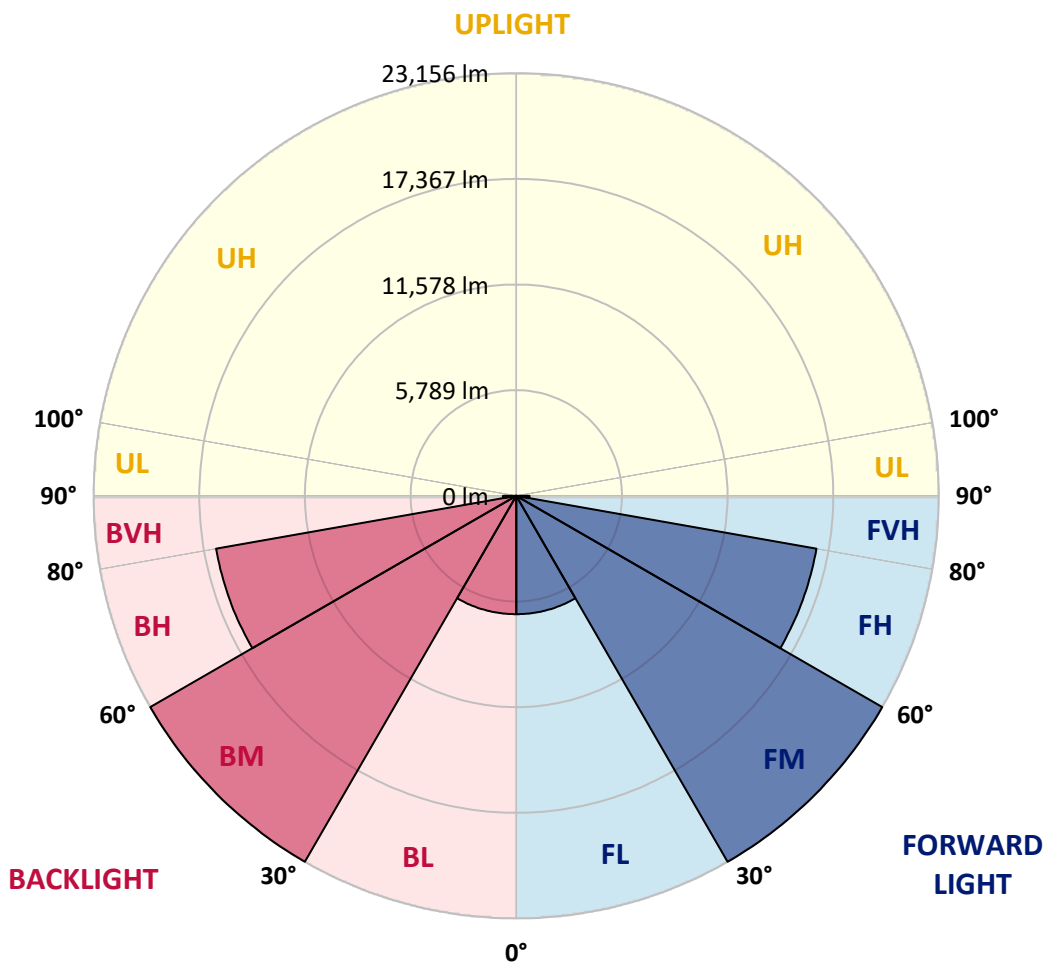


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6484.8	6.9			
FM (30°-60°)	23156.0	24.6			
FH (60°-80°)	16702.9	17.7			G5
FVH (80°-90°)	726.9	0.8			G4/750
BL (0°-30°)	6484.8	6.9	B5		
BM (30°-60°)	23156.0	24.6	B5		
BH (60°-80°)	16702.9	17.7	B5		G5
BVH (80°-90°)	726.9	0.8			G4/750
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°	15509.5	15509.5	15509.5	15509.5	15509.5	15509.5	15509.5	15509.5	15509.5	15509.5	15509.5
2.5°	15505.8	15494.7	15491.1	15485.5	15494.7	15502.1	15520.5	15537.1	15533.4	15529.7	15533.4
5°	15419.3	15424.8	15426.6	15428.5	15435.8	15441.4	15467.1	15492.9	15489.2	15485.5	15503.9
7.5°	15297.8	15297.8	15294.2	15290.5	15305.2	15318.1	15343.8	15369.6	15389.8	15408.2	15437.7
10°	15121.2	15113.8	15112.0	15110.2	15126.7	15141.4	15189.3	15237.1	15277.6	15316.2	15365.9
12.5°	14905.9	14904.1	14907.8	14911.4	14946.4	14981.4	15062.3	15143.3	15224.2	15305.2	15377.0
15°	14650.2	14628.1	14646.5	14663.0	14720.1	14775.3	14931.7	15088.1	15211.4	15332.8	15472.6
17.5°	14260.1	14238.0	14265.6	14291.4	14405.4	14519.5	14740.3	14959.3	15191.1	15423.0	15623.5
20°	13669.4	13669.4	13739.4	13809.3	14002.5	14195.7	14499.3	14801.0	15113.8	15426.6	15717.4
22.5°	13040.2	13021.8	13170.8	13319.8	13551.7	13781.7	14164.4	14547.1	14961.1	15373.3	15772.6
25°	12329.9	12361.2	12548.9	12734.7	13060.4	13384.2	13855.3	14324.5	14845.2	15365.9	15919.8
27.5°	11730.1	11735.6	11961.9	12188.2	12596.7	13003.4	13575.6	14147.8	14782.6	15417.4	16114.8
30°	11110.0	11211.2	11450.4	11687.7	12144.1	12600.4	13292.2	13982.2	14734.8	15487.4	16337.5
32.5°	10633.4	10657.3	10927.8	11196.5	11673.0	12149.6	12953.7	13757.8	14661.2	15564.7	16598.7
35°	10184.5	10223.1	10475.2	10727.3	11224.1	11719.0	12600.4	13479.9	14560.0	15638.3	16882.1
37.5°	9785.2	9833.0	10072.2	10311.4	10789.8	11268.2	12203.0	13137.7	14403.6	15669.5	17193.1
40°	9492.6	9533.1	9735.5	9937.9	10370.3	10800.9	11779.7	12756.8	14184.6	15612.5	17437.8
42.5°	9281.0	9299.4	9463.2	9626.9	10013.3	10399.7	11369.4	12337.3	13899.4	15461.6	17627.3
45°	8994.0	9034.5	9196.4	9356.5	9704.2	10050.1	10937.0	11823.9	13476.2	15126.7	17629.1
47.5°	8780.5	8806.3	8959.0	9109.9	9433.7	9757.6	10554.3	11351.0	12997.8	14642.8	17430.4
50°	8624.1	8611.3	8752.9	8892.8	9166.9	9439.3	10149.5	10857.9	12405.4	13952.8	16933.6
52.5°	8401.5	8416.2	8530.3	8644.4	8881.7	9117.3	9753.9	10388.7	11748.5	13106.4	16127.7
55°	8103.4	8171.5	8267.2	8361.0	8568.9	8776.9	9349.1	9921.3	11091.6	12260.0	15089.9
57.5°	7810.8	7860.5	7941.5	8022.4	8186.2	8348.1	8887.3	9426.4	10399.7	11373.1	13779.8
60°	7571.6	7584.5	7636.0	7685.7	7810.8	7936.0	8381.2	8826.5	9676.6	10524.9	12473.4
62.5°	7262.5	7266.2	7301.2	7336.1	7413.4	7488.8	7838.4	8186.2	8911.2	9636.1	11174.4
65°	6778.6	6808.0	6841.2	6872.4	6924.0	6973.6	7240.4	7507.2	8050.0	8592.8	9833.0
67.5°	6289.2	6263.4	6302.0	6340.7	6348.0	6355.4	6557.8	6760.2	7205.5	7650.8	8648.1
70°	5492.4	5512.7	5509.0	5503.5	5472.2	5439.1	5580.8	5722.4	5958.0	6191.6	6912.9
72.5°	4211.8	4184.2	4114.3	4042.5	4009.4	3976.3	4141.9	4305.6	4478.6	4651.5	5172.3
75°	2574.2	2653.3	2798.7	2942.2	2997.4	3052.6	3043.4	3032.3	3017.6	3002.9	3652.4
77.5°	1744.3	1786.7	1819.8	1851.1	1932.0	2011.1	2103.1	2195.1	2193.3	2191.5	2599.9
80°	1109.5	1076.4	1091.1	1105.8	1151.8	1197.8	1337.7	1475.7	1514.3	1551.1	1832.7
82.5°	695.5	701.0	719.4	736.0	684.5	633.0	741.5	848.2	940.2	1030.4	1161.0
85°	450.8	511.5	502.3	493.1	432.4	371.7	467.4	563.0	607.2	649.5	699.2
87.5°	145.4	169.3	174.8	178.5	178.5	176.6	196.9	217.1	224.5	230.0	248.4
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°	15509.5	15509.5	15509.5	15509.5	15509.5	15509.5	15509.5	15509.5
2.5°	15535.2	15516.8	15498.4	15492.9	15487.4	15483.7	15480.0	15476.3
5°	15520.5	15516.8	15513.1	15498.4	15483.7	15481.9	15480.0	15485.5
7.5°	15467.1	15467.1	15467.1	15483.7	15500.3	15492.9	15483.7	15494.7
10°	15413.8	15457.9	15502.1	15515.0	15527.9	15537.1	15546.3	15555.5
12.5°	15448.7	15524.2	15597.8	15640.1	15682.4	15704.5	15724.7	15730.3
15°	15612.5	15708.2	15803.9	15860.9	15916.1	15952.9	15989.7	15998.9
17.5°	15824.1	15971.3	16116.7	16199.5	16282.3	16324.6	16365.1	16352.2
20°	16006.3	16208.7	16411.1	16587.7	16764.3	16861.9	16957.5	16968.6
22.5°	16170.0	16510.4	16850.8	17079.0	17305.3	17478.3	17651.2	17669.6
25°	16471.8	16917.1	17362.3	17726.7	18091.0	18249.2	18405.6	18497.6
27.5°	16810.3	17406.5	18002.7	18490.3	18977.9	19218.9	19458.1	19471.0
30°	17185.7	17941.9	18696.3	19351.4	20004.6	20299.0	20591.6	20746.1
32.5°	17631.0	18591.5	19550.1	20411.2	21272.4	21719.5	22166.6	22323.0
35°	18124.1	19369.8	20613.6	21800.4	22985.4	23841.0	24696.6	25108.8
37.5°	18716.6	20302.7	21888.8	23671.7	25454.7	26913.8	28371.1	28787.0
40°	19263.1	21303.6	23342.4	25819.0	28295.7	30610.4	32923.3	33374.1
42.5°	19793.0	22262.3	24731.6	28109.8	31488.1	34586.7	37685.3	38857.3
45°	20129.7	23116.1	26100.6	30555.2	35009.9	39264.0	43516.3	44500.7
47.5°	20216.2	23725.1	27234.0	32752.2	38270.4	43277.1	48281.9	49546.0
50°	19914.4	24041.6	28168.7	35451.5	42732.4	47831.1	52927.9	53965.7
52.5°	19149.0	23940.4	28731.8	37543.6	46355.4	51752.1	57148.9	58091.0
55°	17919.9	23325.8	28731.8	39265.8	49798.0	55395.4	60990.8	62422.4
57.5°	16186.6	22151.9	28117.2	40415.8	52714.5	58793.9	64873.3	66159.4
60°	14422.0	20755.3	27086.8	41050.6	55014.5	61454.5	67894.6	69396.0
62.5°	12710.8	18858.3	25003.9	40384.6	55765.2	62564.0	69361.0	71521.2
65°	11073.2	16751.5	22429.7	38759.8	55088.1	62878.7	70667.5	72603.1
67.5°	9645.3	14990.6	20335.8	36036.6	51737.4	60359.7	68980.2	71392.4
70°	7634.2	12552.6	17470.9	31208.4	44945.9	55043.9	65141.9	68119.0
72.5°	5693.0	9864.3	14033.8	24549.4	35065.1	46677.4	58287.9	62034.1
75°	4300.1	7878.9	11457.7	19404.8	27351.8	37182.9	47014.1	52028.1
77.5°	3008.4	5693.0	8375.7	14304.2	20232.8	25675.5	31118.3	33790.0
80°	2112.3	3600.9	5087.6	7939.6	10789.8	13203.9	15616.2	15424.8
82.5°	1289.8	1915.5	2539.2	3444.5	4349.8	4933.1	5516.4	5490.6
85°	748.9	910.8	1070.9	1326.6	1582.4	1871.3	2160.2	1921.0
87.5°	265.0	265.0	265.0	303.6	342.2	471.0	599.8	633.0
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



REPORT NUMBER: P510535  
 CATALOG NUMBER: CTN-CA10-630-730-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)