

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: P510665

Luminaire Tested: **CTN-CA6-230-740-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510665
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-CA6-230-740-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (6) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35802 lumens
Efficiency: N/A
Efficacy: 157.2 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

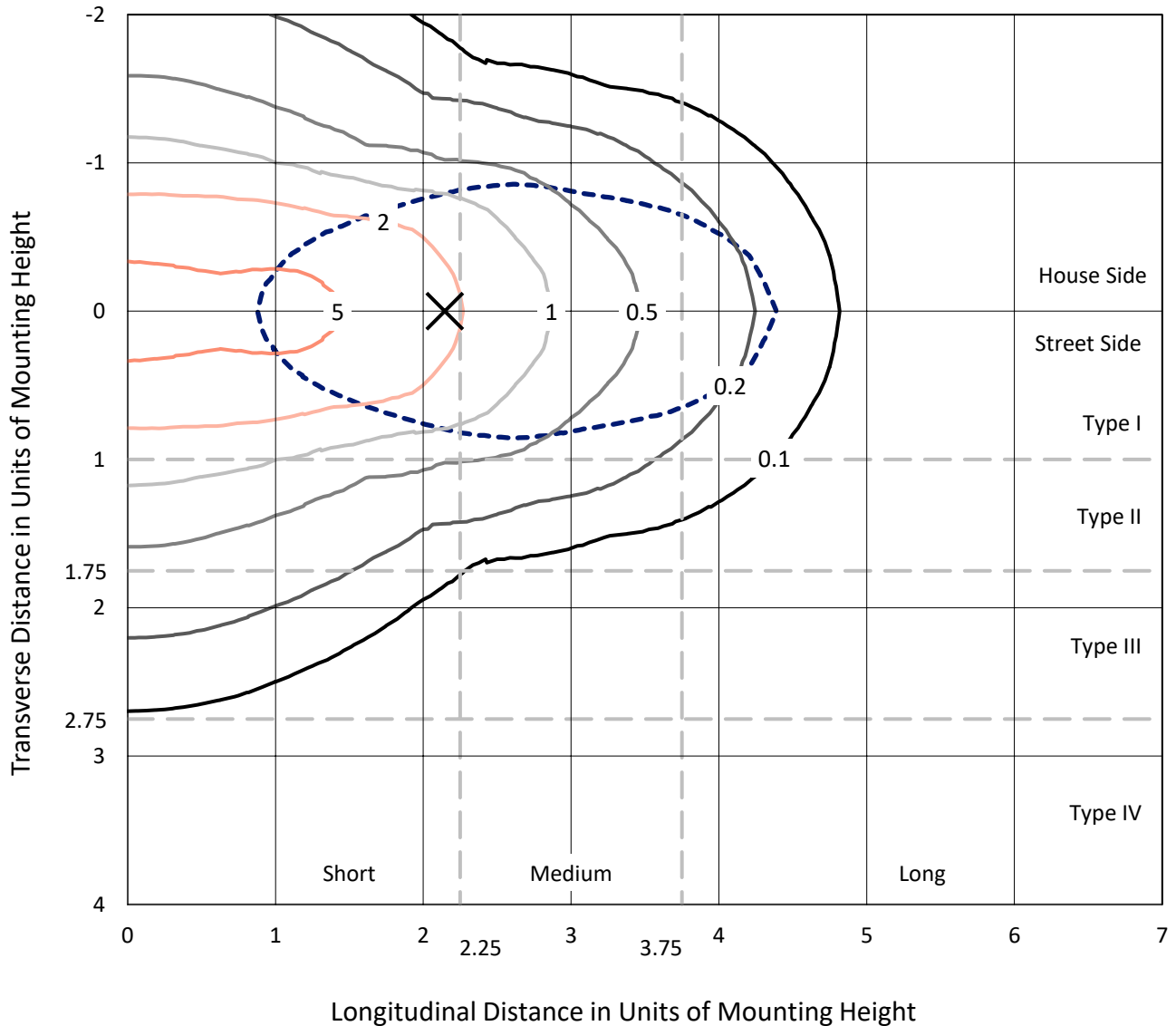




REPORT NUMBER: P510665
 CATALOG NUMBER: CTN-CA6-230-740-U-T1

Iso-Footcandle Lines of Horizontal Illumination

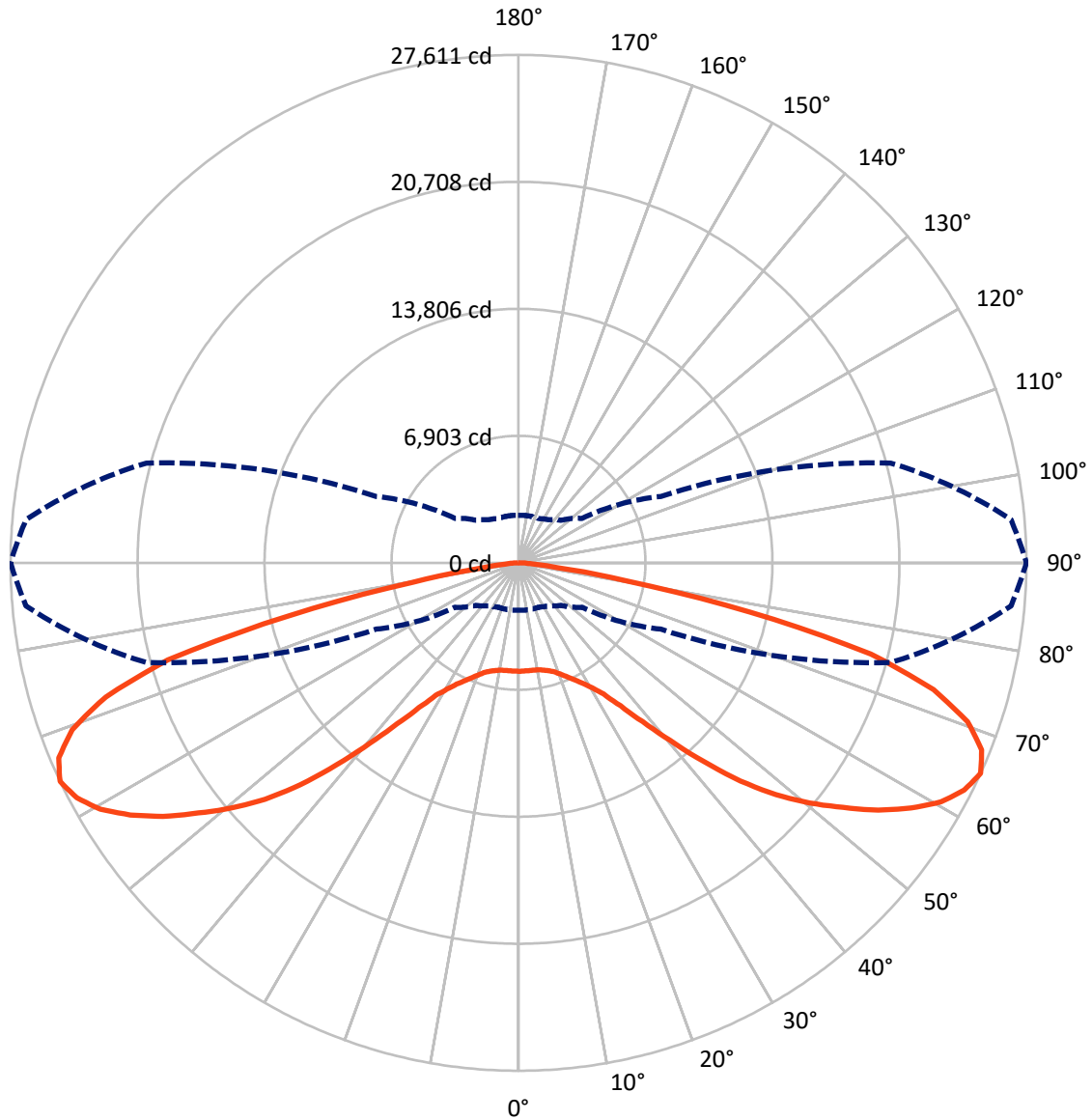
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
 Type I - Short - N/A

REPORT NUMBER: P510665
CATALOG NUMBER: CTN-CA6-230-740-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P510665
 CATALOG NUMBER: CTN-CA6-230-740-U-T1

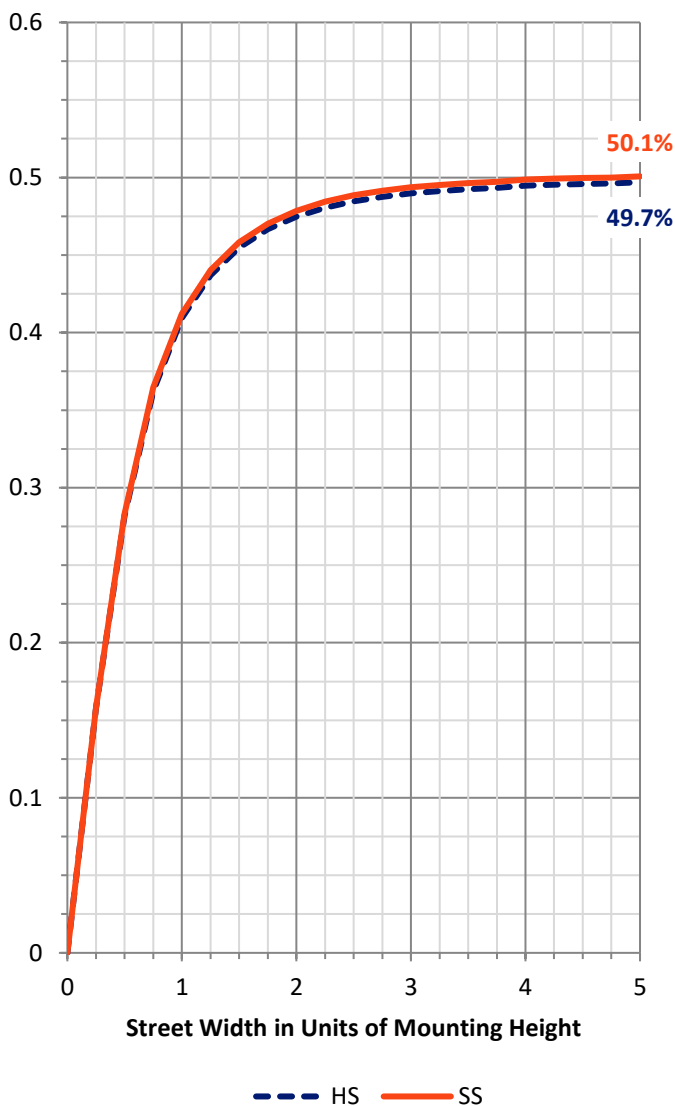
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17901.0	0.0	17901.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17901.0	0.0	17901.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35802.0	0.0	35802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.7	1.6
10°-20°	1651.8	4.6
20°-30°	2720.9	7.6
30°-40°	3986.4	11.1
40°-50°	5894.3	16.5
50°-60°	7731.8	21.6
60°-70°	8066.5	22.5
70°-80°	4637.8	13.0
80°-90°	552.9	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°	35802.0	100.0
0°-180°	35802.0	100.0

Coefficient of Utilization

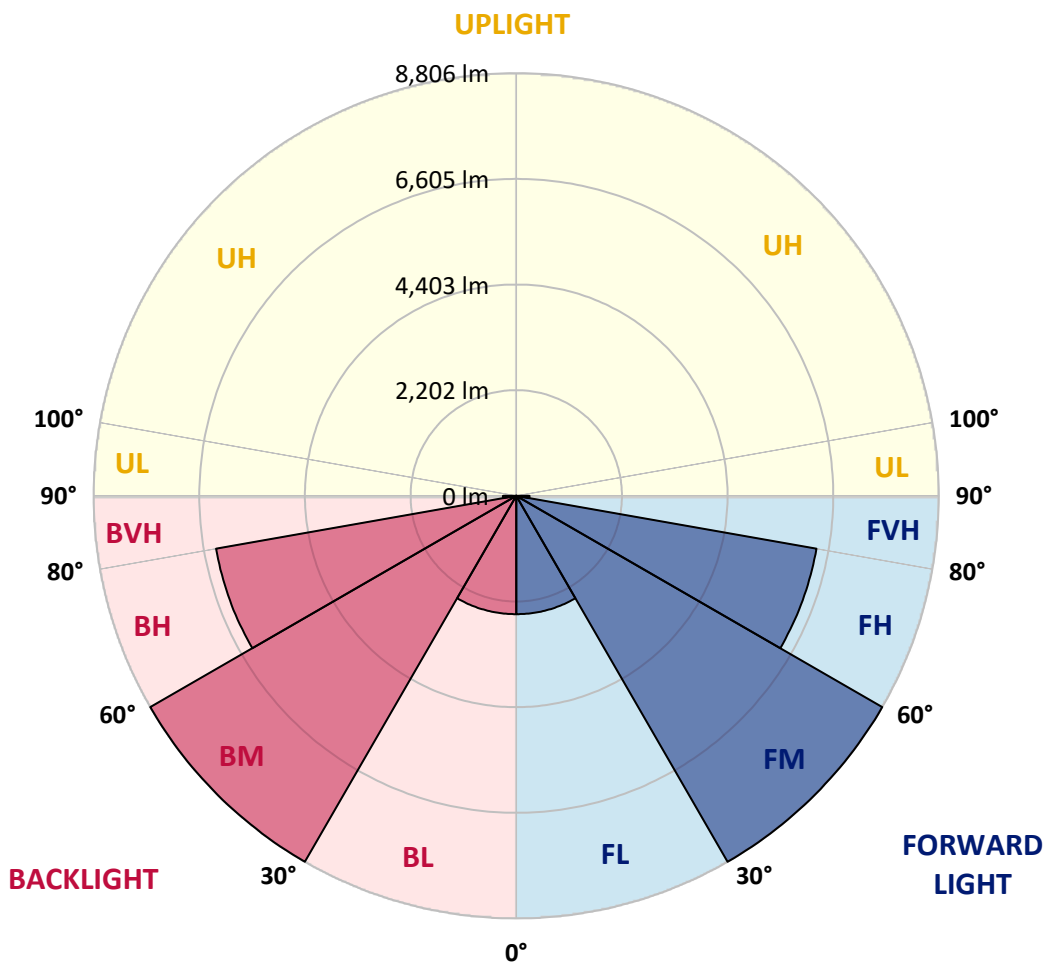


REPORT NUMBER: P510665
 CATALOG NUMBER: CTN-CA6-230-740-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2466.2	6.9			
FM (30°-60°)	8806.3	24.6			
FH (60°-80°)	6352.1	17.7			G3/7500
FVH (80°-90°)	276.4	0.8			G3/500
BL (0°-30°)	2466.2	6.9	B3/2500		
BM (30°-60°)	8806.3	24.6	B5		
BH (60°-80°)	6352.1	17.7	B5		G5
BVH (80°-90°)	276.4	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





REPORT NUMBER: P510665

CATALOG NUMBER: CTN-CA6-230-740-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3
2.5°	5896.9	5892.7	5891.3	5889.2	5892.7	5895.5	5902.5	5908.8	5907.4	5906.0	5907.4
5°	5864.0	5866.1	5866.8	5867.5	5870.3	5872.4	5882.2	5892.0	5890.6	5889.2	5896.2
7.5°	5817.8	5817.8	5816.4	5815.0	5820.6	5825.5	5835.3	5845.1	5852.8	5859.8	5871.0
10°	5750.6	5747.8	5747.1	5746.4	5752.7	5758.3	5776.5	5794.7	5810.1	5824.8	5843.7
12.5°	5668.8	5668.1	5669.5	5670.9	5684.1	5697.4	5728.2	5759.0	5789.8	5820.6	5847.9
15°	5571.5	5563.1	5570.1	5576.4	5598.1	5619.1	5678.5	5738.0	5784.9	5831.1	5884.3
17.5°	5423.1	5414.7	5425.2	5435.0	5478.4	5521.8	5605.8	5689.0	5777.2	5865.4	5941.7
20°	5198.5	5198.5	5225.1	5251.7	5325.2	5398.6	5514.1	5628.9	5747.8	5866.8	5977.3
22.5°	4959.2	4952.2	5008.9	5065.6	5153.7	5241.2	5386.7	5532.3	5689.7	5846.5	5998.3
25°	4689.1	4701.0	4772.4	4843.0	4966.9	5090.1	5269.2	5447.6	5645.7	5843.7	6054.3
27.5°	4461.0	4463.1	4549.1	4635.2	4790.6	4945.2	5162.8	5380.5	5621.9	5863.3	6128.5
30°	4225.1	4263.6	4354.6	4444.9	4618.4	4792.0	5055.1	5317.5	5603.7	5889.9	6213.2
32.5°	4043.9	4053.0	4155.9	4258.0	4439.3	4620.5	4926.3	5232.1	5575.7	5919.3	6312.5
35°	3873.2	3887.9	3983.7	4079.6	4268.5	4456.8	4792.0	5126.4	5537.2	5947.3	6420.3
37.5°	3721.3	3739.5	3830.5	3921.5	4103.4	4285.3	4640.8	4996.3	5477.7	5959.2	6538.6
40°	3610.1	3625.5	3702.4	3779.4	3943.8	4107.6	4479.9	4851.4	5394.4	5937.5	6631.6
42.5°	3529.6	3536.6	3598.9	3661.1	3808.1	3955.0	4323.8	4691.9	5286.0	5880.1	6703.7
45°	3420.4	3435.8	3497.4	3558.3	3690.5	3822.1	4159.4	4496.7	5125.0	5752.7	6704.4
47.5°	3339.3	3349.0	3407.1	3464.5	3587.7	3710.8	4013.8	4316.8	4943.1	5568.7	6628.8
50°	3279.8	3274.9	3328.8	3381.9	3486.2	3589.8	3859.9	4129.3	4717.8	5306.3	6439.9
52.5°	3195.1	3200.7	3244.1	3287.5	3377.7	3467.3	3709.4	3950.8	4468.0	4984.4	6133.4
55°	3081.7	3107.6	3144.0	3179.7	3258.8	3337.9	3555.5	3773.1	4218.2	4662.5	5738.7
57.5°	2970.5	2989.4	3020.2	3051.0	3113.2	3174.8	3379.8	3584.9	3955.0	4325.2	5240.5
60°	2879.5	2884.4	2904.0	2922.9	2970.5	3018.1	3187.4	3356.7	3680.0	4002.6	4743.7
62.5°	2762.0	2763.4	2776.6	2789.9	2819.3	2848.0	2981.0	3113.2	3388.9	3664.6	4249.6
65°	2577.9	2589.1	2601.7	2613.6	2633.2	2652.1	2753.6	2855.0	3061.4	3267.9	3739.5
67.5°	2391.8	2382.0	2396.7	2411.4	2414.2	2417.0	2493.9	2570.9	2740.3	2909.6	3288.9
70°	2088.8	2096.5	2095.1	2093.0	2081.1	2068.5	2122.4	2176.3	2265.8	2354.7	2629.0
72.5°	1601.7	1591.3	1564.7	1537.4	1524.8	1512.2	1575.2	1637.4	1703.2	1769.0	1967.0
75°	979.0	1009.1	1064.3	1118.9	1139.9	1160.9	1157.4	1153.2	1147.6	1142.0	1389.0
77.5°	663.4	679.5	692.1	704.0	734.7	764.8	799.8	834.8	834.1	833.4	988.8
80°	422.0	409.4	415.0	420.6	438.0	455.5	508.7	561.2	575.9	589.9	697.0
82.5°	264.5	266.6	273.6	279.9	260.3	240.7	282.0	322.6	357.6	391.9	441.5
85°	171.4	194.5	191.0	187.5	164.4	141.4	177.7	214.1	230.9	247.0	265.9
87.5°	55.3	64.4	66.5	67.9	67.9	67.2	74.9	82.6	85.4	87.5	94.5
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



REPORT NUMBER: P510665
 CATALOG NUMBER: CTN-CA6-230-740-U-T1

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



REPORT NUMBER: P510665

CATALOG NUMBER: CTN-CA6-230-740-U-T1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3
2.5°	5908.1	5901.1	5894.1	5892.0	5889.9	5888.5	5887.1	5885.7
5°	5902.5	5901.1	5899.7	5894.1	5888.5	5887.8	5887.1	5889.2
7.5°	5882.2	5882.2	5882.2	5888.5	5894.8	5892.0	5888.5	5892.7
10°	5861.9	5878.7	5895.5	5900.4	5905.3	5908.8	5912.3	5915.8
12.5°	5875.2	5903.9	5931.9	5948.0	5964.1	5972.4	5980.1	5982.2
15°	5937.5	5973.8	6010.2	6031.9	6052.9	6066.9	6080.9	6084.4
17.5°	6017.9	6073.9	6129.2	6160.7	6192.2	6208.3	6223.7	6218.8
20°	6087.2	6164.2	6241.2	6308.3	6375.5	6412.6	6449.0	6453.2
22.5°	6149.5	6278.9	6408.4	6495.2	6581.2	6647.0	6712.8	6719.8
25°	6264.2	6433.6	6602.9	6741.5	6880.0	6940.2	6999.7	7034.7
27.5°	6393.0	6619.7	6846.4	7031.9	7217.3	7309.0	7400.0	7404.9
30°	6535.8	6823.4	7110.3	7359.4	7607.8	7719.7	7831.0	7889.8
32.5°	6705.1	7070.4	7434.9	7762.4	8089.9	8260.0	8430.0	8489.5
35°	6892.6	7366.4	7839.4	8290.8	8741.4	9066.8	9392.2	9548.9
37.5°	7118.0	7721.1	8324.3	9002.4	9680.5	10235.4	10789.6	10947.7
40°	7325.8	8101.8	8877.1	9819.0	10760.9	11641.2	12520.8	12692.2
42.5°	7527.3	8466.4	9405.5	10690.2	11975.0	13153.4	14331.8	14777.5
45°	7655.4	8791.1	9926.1	11620.2	13314.3	14932.2	16549.3	16923.7
47.5°	7688.3	9022.7	10357.1	12455.7	14554.3	16458.3	18361.7	18842.4
50°	7573.5	9143.1	10712.6	13482.3	16251.2	18190.2	20128.6	20523.2
52.5°	7282.4	9104.6	10926.7	14277.9	17629.0	19681.4	21733.8	22092.1
55°	6815.0	8870.9	10926.7	14932.9	18938.3	21067.0	23194.9	23739.3
57.5°	6155.8	8424.4	10693.0	15370.2	20047.4	22359.4	24671.4	25160.6
60°	5484.7	7893.3	10301.2	15611.6	20922.1	23371.3	25820.4	26391.4
62.5°	4833.9	7171.8	9509.0	15358.3	21207.6	23793.2	26378.1	27199.7
65°	4211.2	6370.6	8530.1	14740.4	20950.1	23912.9	26875.0	27611.1
67.5°	3668.1	5700.9	7733.7	13704.8	19675.8	22954.9	26233.3	27150.7
70°	2903.3	4773.8	6644.2	11868.6	17093.0	20933.3	24773.6	25905.8
72.5°	2165.1	3751.4	5337.1	9336.2	13335.3	17751.5	22167.0	23591.7
75°	1635.3	2996.4	4357.4	7379.7	10401.9	14140.7	17879.6	19786.4
77.5°	1144.1	2165.1	3185.3	5439.9	7694.6	9764.4	11834.3	12850.4
80°	803.3	1369.4	1934.8	3019.5	4103.4	5021.5	5938.9	5866.1
82.5°	490.5	728.4	965.7	1309.9	1654.2	1876.1	2097.9	2088.1
85°	284.8	346.4	407.3	504.5	601.8	711.7	821.5	730.5
87.5°	100.8	100.8	100.8	115.5	130.2	179.1	228.1	240.7
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: P510665
 CATALOG NUMBER: CTN-CA6-230-740-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)