

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: P510575

Luminaire Tested: **CTN-CA10-760-722-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510575
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-CA10-760-722-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 90216 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

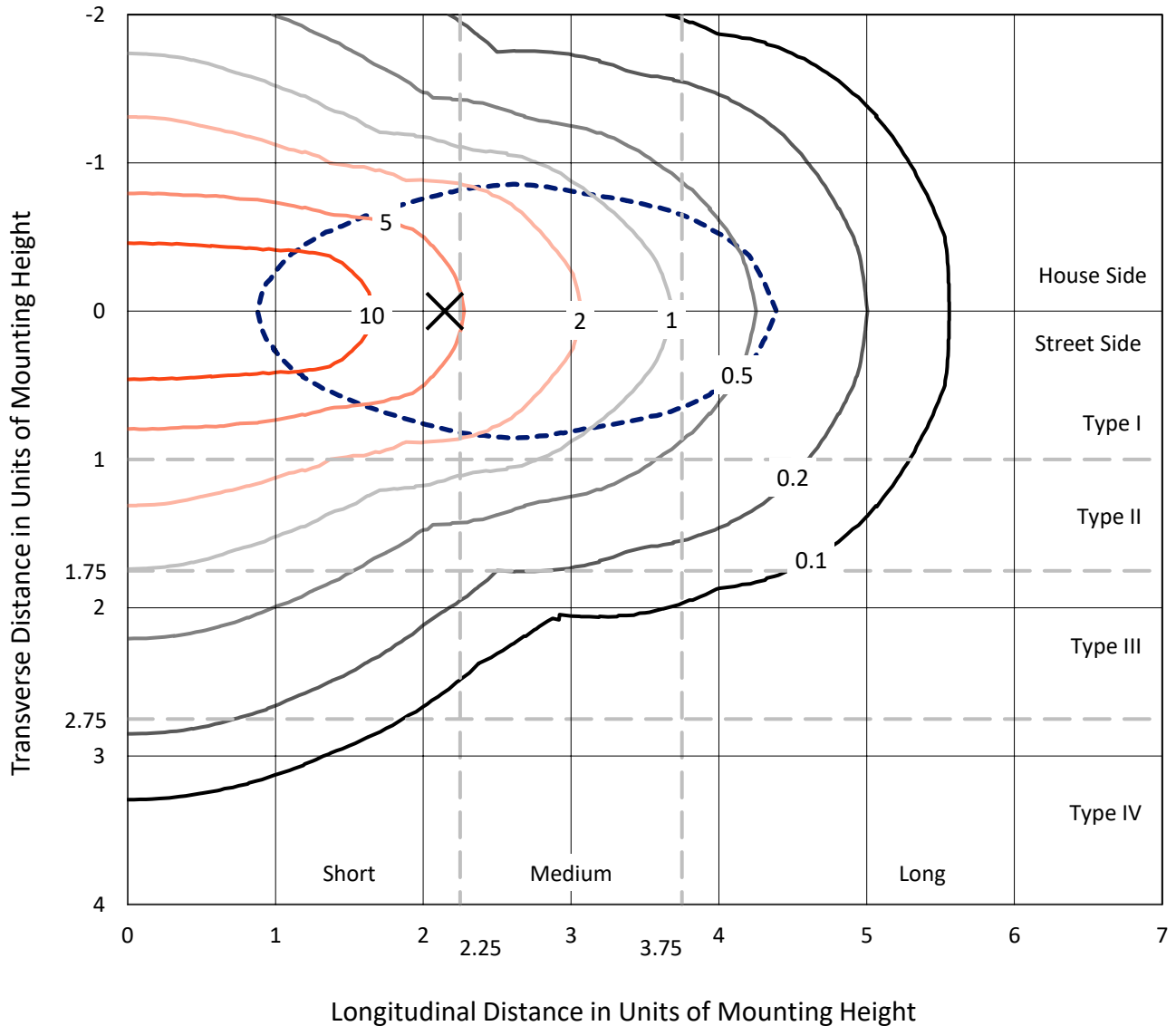
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P510575
 CATALOG NUMBER: CTN-CA10-760-722-U-T1

Iso-Footcandle Lines of Horizontal Illumination

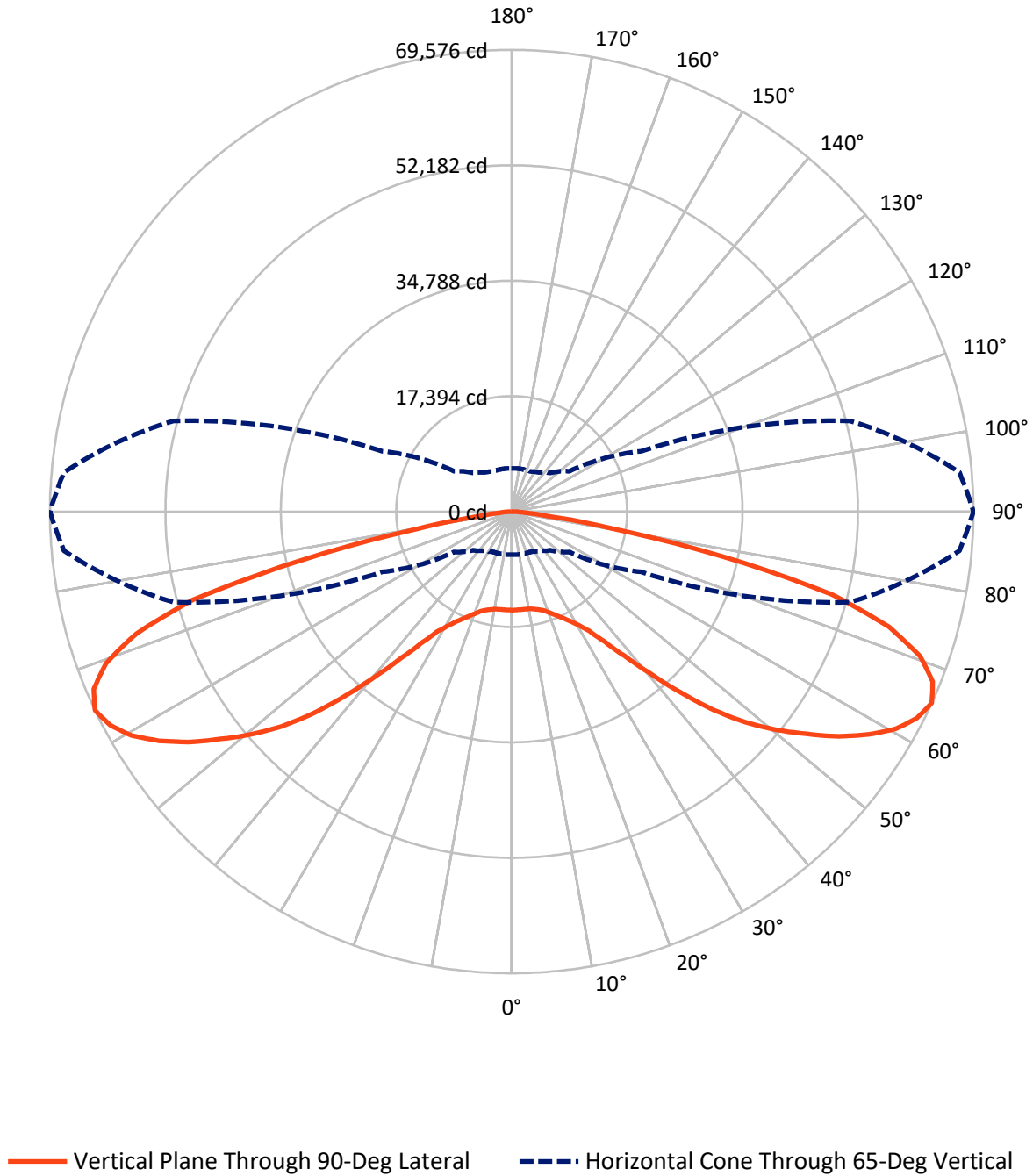
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.8 fc
 Type I - Short - N/A

REPORT NUMBER: P510575
CATALOG NUMBER: CTN-CA10-760-722-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P510575
 CATALOG NUMBER: CTN-CA10-760-722-U-T1

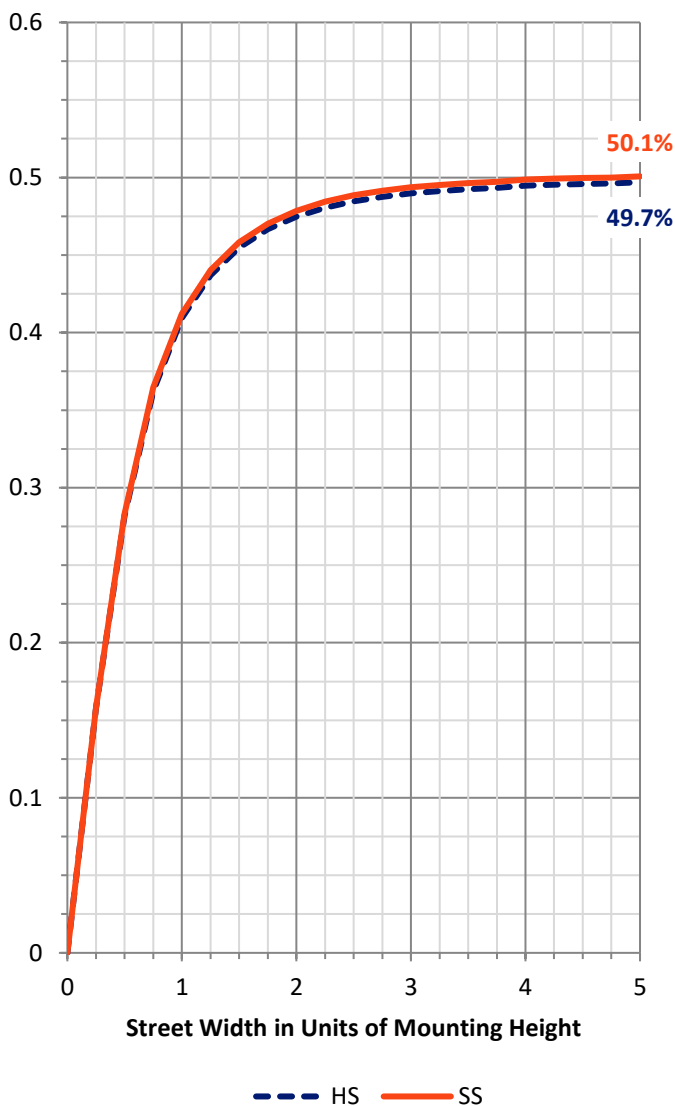
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	45108.0	0.0	45108.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	45108.0	0.0	45108.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	90216.0	0.0	90216.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1410.5	1.6
10°-20°	4162.2	4.6
20°-30°	6856.2	7.6
30°-40°	10045.1	11.1
40°-50°	14852.8	16.5
50°-60°	19483.1	21.6
60°-70°	20326.4	22.5
70°-80°	11686.5	13.0
80°-90°	1393.1	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°	90216.0	100.0
0°-180°	90216.0	100.0

Coefficient of Utilization

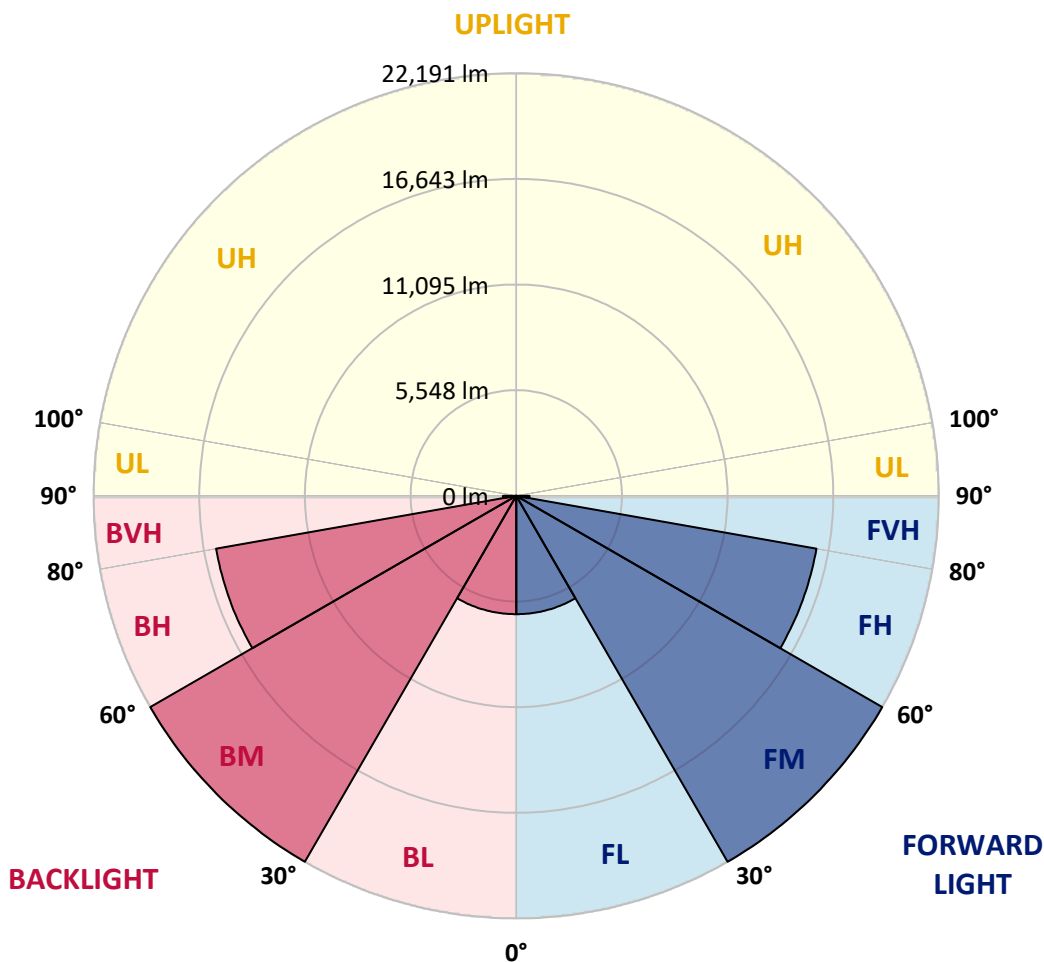


REPORT NUMBER: P510575
 CATALOG NUMBER: CTN-CA10-760-722-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6214.4	6.9			
FM (30°-60°)	22190.5	24.6			
FH (60°-80°)	16006.5	17.7			G5
FVH (80°-90°)	696.6	0.8			G4/750
BL (0°-30°)	6214.4	6.9	B5		
BM (30°-60°)	22190.5	24.6	B5		
BH (60°-80°)	16006.5	17.7	B5		G5
BVH (80°-90°)	696.6	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





REPORT NUMBER: P510575

CATALOG NUMBER: CTN-CA10-760-722-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	14862.8	14862.8	14862.8	14862.8	14862.8	14862.8	14862.8	14862.8	14862.8	14862.8	14862.8
2.5°	14859.3	14848.7	14845.2	14839.9	14848.7	14855.8	14873.4	14889.3	14885.7	14882.2	14885.7
5°	14776.4	14781.7	14783.5	14785.2	14792.3	14797.6	14822.3	14846.9	14843.4	14839.9	14857.5
7.5°	14660.0	14660.0	14656.5	14653.0	14667.1	14679.4	14704.1	14728.8	14748.2	14765.8	14794.0
10°	14490.8	14483.7	14481.9	14480.2	14496.1	14510.2	14556.0	14601.9	14640.6	14677.7	14725.3
12.5°	14284.5	14282.7	14286.2	14289.7	14323.2	14356.8	14434.3	14511.9	14589.5	14667.1	14735.9
15°	14039.4	14018.2	14035.8	14051.7	14106.4	14159.3	14309.1	14459.0	14577.2	14693.5	14827.6
17.5°	13665.5	13644.4	13670.8	13695.5	13804.8	13914.2	14125.8	14335.6	14557.8	14779.9	14972.1
20°	13099.5	13099.5	13166.5	13233.5	13418.7	13603.8	13894.8	14183.9	14483.7	14783.5	15062.1
22.5°	12496.5	12478.8	12621.7	12764.5	12986.7	13207.1	13573.8	13940.6	14337.4	14732.3	15115.0
25°	11815.8	11845.8	12025.7	12203.8	12515.9	12826.2	13277.6	13727.3	14226.3	14725.3	15256.0
27.5°	11241.0	11246.3	11463.2	11680.1	12071.5	12461.2	13009.6	13558.0	14166.3	14774.7	15442.9
30°	10646.8	10743.8	10973.0	11200.5	11637.8	12075.0	12738.0	13399.3	14120.5	14841.7	15656.3
32.5°	10190.1	10213.0	10472.2	10729.7	11186.3	11643.0	12413.6	13184.2	14049.9	14915.7	15906.7
35°	9759.8	9796.9	10038.4	10280.0	10756.1	11230.4	12075.0	12917.9	13953.0	14986.2	16178.2
37.5°	9377.2	9423.1	9652.3	9881.5	10340.0	10798.4	11694.2	12589.9	13803.1	15016.2	16476.2
40°	9096.8	9135.6	9329.6	9523.6	9937.9	10350.5	11288.6	12224.9	13593.2	14961.6	16710.8
42.5°	8894.1	8911.7	9068.6	9225.6	9595.9	9966.1	10895.4	11822.9	13319.9	14817.0	16892.4
45°	8619.0	8657.8	8813.0	8966.4	9299.6	9631.1	10481.0	11330.9	12914.4	14496.1	16894.1
47.5°	8414.4	8439.1	8585.5	8730.1	9040.4	9350.8	10114.3	10877.8	12455.9	14032.3	16703.7
50°	8264.6	8252.2	8388.0	8522.0	8784.7	9045.7	9726.3	10405.2	11888.1	13371.1	16227.6
52.5°	8051.2	8065.3	8174.6	8284.0	8511.4	8737.1	9347.2	9955.6	11258.6	12560.0	15455.3
55°	7765.6	7830.8	7922.5	8012.4	8211.7	8410.9	8959.3	9507.7	10629.1	11748.8	14460.8
57.5°	7485.2	7532.8	7610.4	7688.0	7844.9	8000.1	8516.7	9033.4	9966.1	10898.9	13205.3
60°	7256.0	7268.3	7317.7	7365.3	7485.2	7605.1	8031.8	8458.5	9273.2	10086.1	11953.4
62.5°	6959.7	6963.3	6996.8	7030.3	7104.3	7176.6	7511.6	7844.9	8539.6	9234.4	10708.5
65°	6496.0	6524.2	6555.9	6585.9	6635.3	6682.9	6938.6	7194.2	7714.4	8234.6	9423.1
67.5°	6026.9	6002.3	6039.3	6076.3	6083.4	6090.4	6284.4	6478.3	6905.1	7331.8	8287.5
70°	5263.4	5282.8	5279.3	5274.0	5244.0	5212.3	5348.1	5483.8	5709.6	5933.5	6624.7
72.5°	4036.2	4009.7	3942.7	3874.0	3842.2	3810.5	3969.2	4126.1	4291.9	4457.6	4956.6
75°	2466.9	2542.7	2682.0	2819.5	2872.4	2925.3	2916.5	2905.9	2891.8	2877.7	3500.1
77.5°	1671.6	1712.2	1743.9	1773.9	1851.5	1927.3	2015.4	2103.6	2101.8	2100.1	2491.5
80°	1063.3	1031.5	1045.6	1059.7	1103.8	1147.9	1281.9	1414.2	1451.2	1486.5	1756.2
82.5°	666.5	671.8	689.4	705.3	655.9	606.6	710.6	812.9	901.0	987.4	1112.6
85°	432.0	490.2	481.4	472.6	414.4	356.2	447.9	539.6	581.9	622.4	670.1
87.5°	139.3	162.2	167.5	171.0	171.0	169.3	188.7	208.1	215.1	220.4	238.0
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: P510575
 CATALOG NUMBER: CTN-CA10-760-722-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: P510575

CATALOG NUMBER: CTN-CA10-760-722-U-T1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	14862.8	14862.8	14862.8	14862.8	14862.8	14862.8	14862.8	14862.8
2.5°	14887.5	14869.9	14852.2	14846.9	14841.7	14838.1	14834.6	14831.1
5°	14873.4	14869.9	14866.3	14852.2	14838.1	14836.4	14834.6	14839.9
7.5°	14822.3	14822.3	14822.3	14838.1	14854.0	14846.9	14838.1	14848.7
10°	14771.1	14813.4	14855.8	14868.1	14880.5	14889.3	14898.1	14906.9
12.5°	14804.6	14876.9	14947.5	14988.0	15028.6	15049.7	15069.1	15074.4
15°	14961.6	15053.3	15144.9	15199.6	15252.5	15287.8	15323.0	15331.9
17.5°	15164.3	15305.4	15444.7	15524.1	15603.4	15644.0	15682.8	15670.4
20°	15338.9	15532.9	15726.8	15896.1	16065.4	16158.8	16250.5	16261.1
22.5°	15495.8	15822.1	16148.3	16366.9	16583.8	16749.5	16915.3	16932.9
25°	15785.0	16211.7	16638.5	16987.6	17336.7	17488.4	17638.2	17726.4
27.5°	16109.5	16680.8	17252.1	17719.4	18186.6	18417.6	18646.9	18659.2
30°	16469.2	17193.9	17916.8	18544.6	19170.5	19452.7	19733.0	19881.2
32.5°	16895.9	17816.3	18735.0	19560.2	20385.5	20813.9	21242.4	21392.3
35°	17368.5	18562.2	19754.2	20891.5	22027.1	22847.0	23667.0	24061.9
37.5°	17936.2	19456.2	20976.2	22684.8	24393.4	25791.7	27188.3	27586.8
40°	18459.9	20415.4	22369.2	24742.6	27116.0	29334.2	31550.6	31982.7
42.5°	18967.8	21334.1	23700.5	26937.9	30175.3	33144.7	36114.1	37237.3
45°	19290.5	22152.3	25012.3	29281.3	33550.2	37627.0	41701.9	42645.3
47.5°	19373.3	22735.9	26098.5	31386.7	36674.8	41472.7	46268.9	47480.3
50°	19084.1	23039.2	26994.3	33973.4	40950.8	45836.9	50721.2	51715.7
52.5°	18350.6	22942.2	27533.9	35978.3	44422.7	49594.5	54766.2	55669.0
55°	17172.7	22353.3	27533.9	37628.7	47721.8	53085.8	58448.0	59819.8
57.5°	15511.7	21228.3	26944.9	38730.8	50516.7	56342.6	62168.5	63401.1
60°	13820.7	19890.0	25957.5	39339.1	52720.8	58892.3	65063.8	66502.7
62.5°	12180.8	18072.0	23961.4	38700.8	53440.2	59955.6	66469.2	68539.3
65°	10611.5	16053.0	21494.6	37143.8	52791.3	60257.1	67721.1	69576.1
67.5°	9243.2	14365.6	19487.9	34534.1	49580.3	57843.1	66104.2	68415.9
70°	7315.9	12029.2	16742.5	29907.3	43072.0	52749.0	62426.0	65279.0
72.5°	5455.6	9453.0	13448.7	23525.9	33603.1	44731.3	55857.7	59447.7
75°	4120.8	7550.4	10980.0	18595.7	26211.4	35632.7	45054.0	49858.9
77.5°	2883.0	5455.6	8026.5	13707.9	19389.2	24605.0	29820.9	32381.2
80°	2024.3	3450.8	4875.5	7608.6	10340.0	12653.4	14965.1	14781.7
82.5°	1236.1	1835.6	2433.3	3300.9	4168.4	4727.4	5286.4	5261.7
85°	717.7	872.8	1026.2	1271.3	1516.4	1793.3	2070.1	1840.9
87.5°	253.9	253.9	253.9	290.9	328.0	451.4	574.8	606.6
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: P510575
 CATALOG NUMBER: CTN-CA10-760-722-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)