

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: P579447

Luminaire Tested: **CTN-CA10-760-730-U-T5N-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-760-730-U-T5N-HSS-HM-EX90
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 86244 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U2 - G5

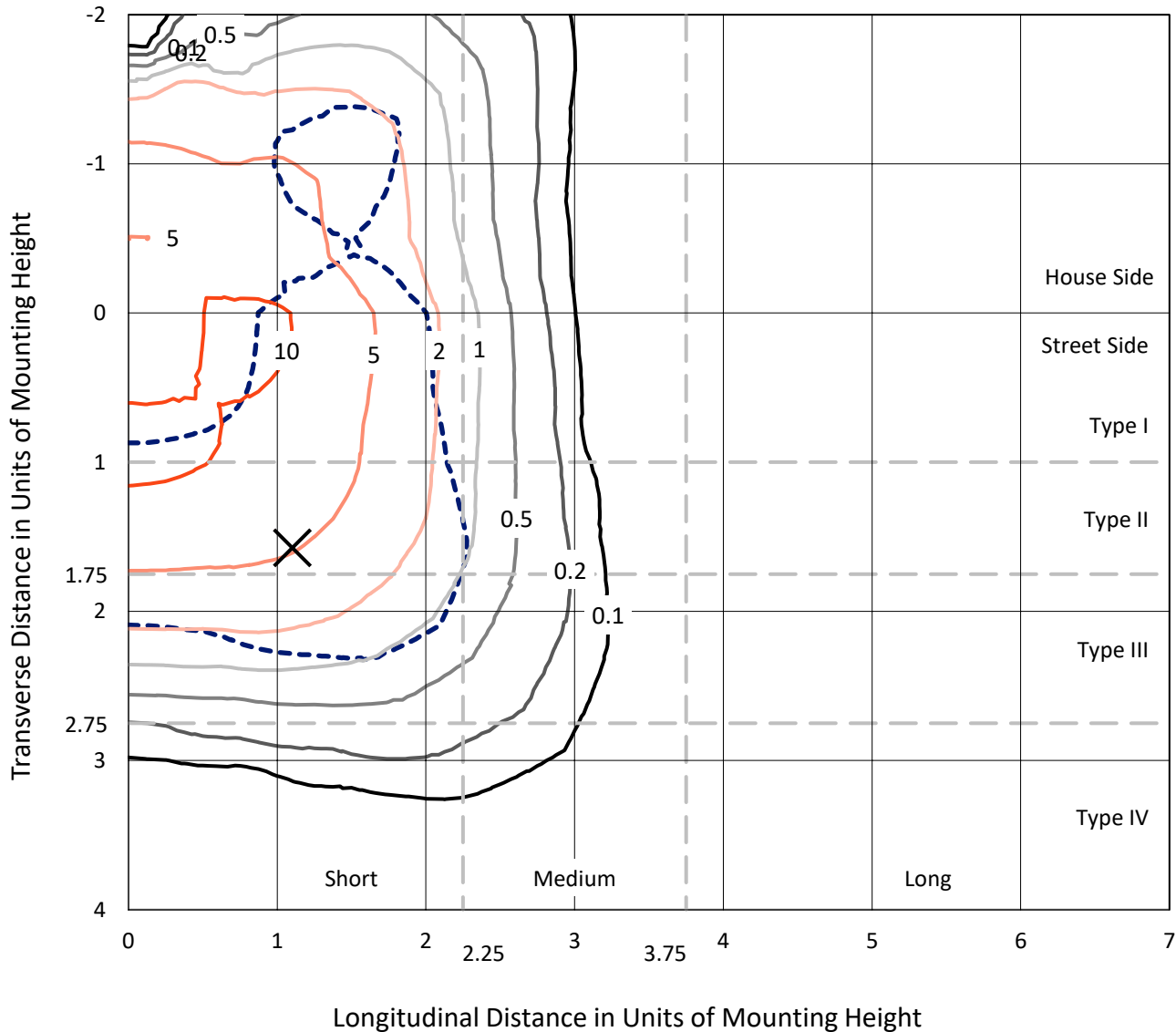
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P579447
 CATALOG NUMBER: CTN-CA10-760-730-U-T5N-HSS-HM-EX90

Iso-Footcandle Lines of Horizontal Illumination

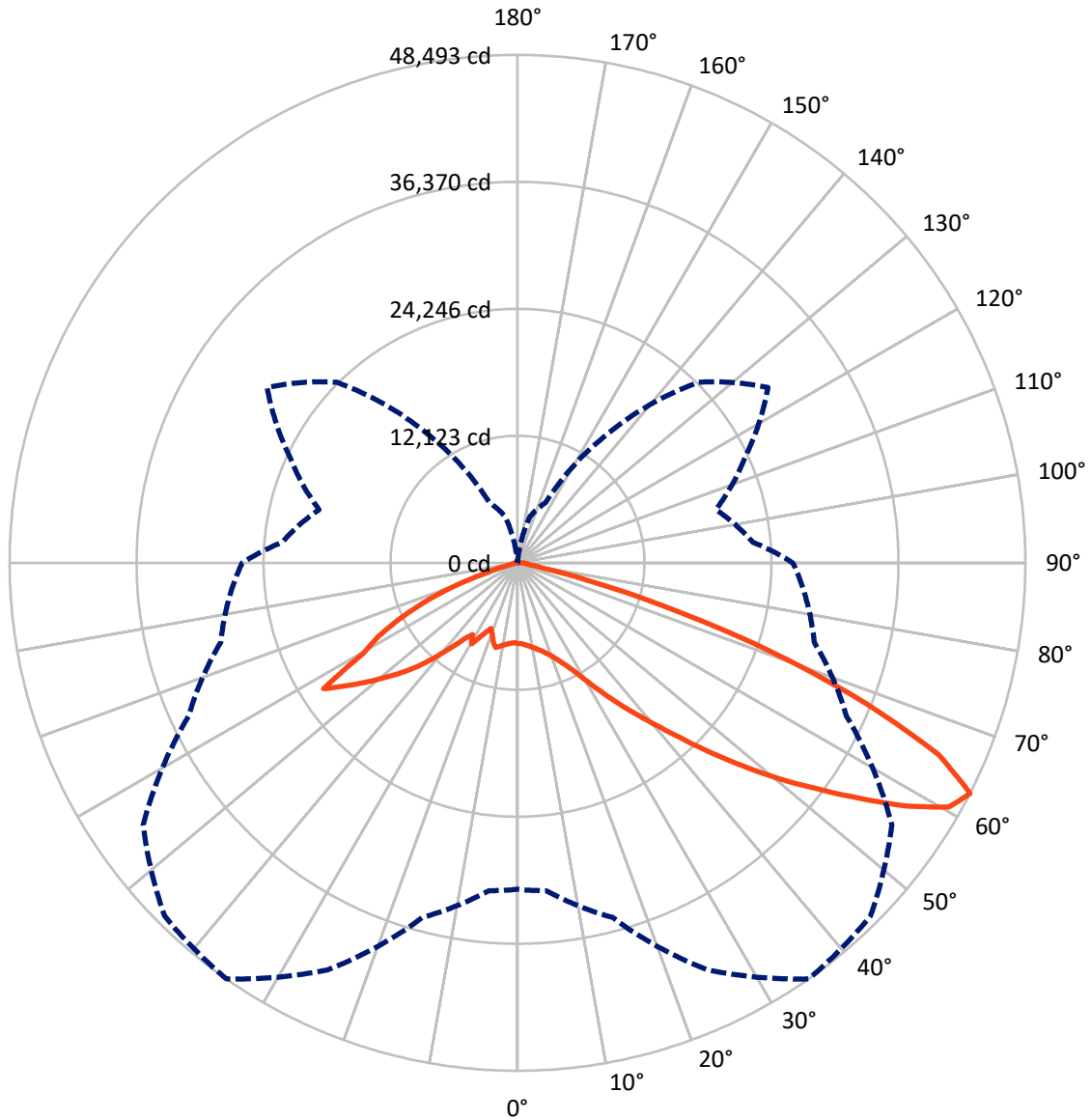
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.6 fc
 Type III - Short - N/A

REPORT NUMBER: P579447
CATALOG NUMBER: CTN-CA10-760-730-U-T5N-HSS-HM-EX90

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P579447
 CATALOG NUMBER: CTN-CA10-760-730-U-T5N-HSS-HM-EX90

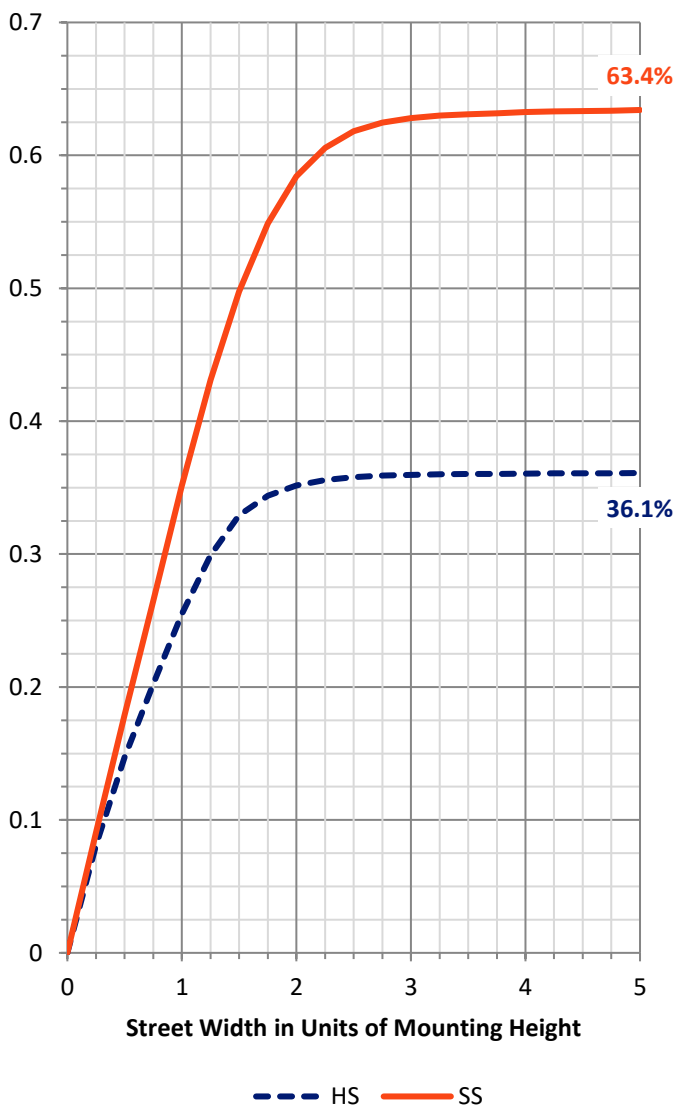
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	31304.5	0.1	31304.6
	% Fixture	36.3	0.0	36.3
Street Side	Lumens	54898.5	40.9	54939.4
	% Fixture	63.7	0.0	63.7
Total	Lumens	86203.1	40.9	86244.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	758.7	0.9
10°-20°	2452.0	2.8
20°-30°	4717.2	5.5
30°-40°	9410.4	10.9
40°-50°	17182.8	19.9
50°-60°	25677.1	29.8
60°-70°	21515.0	24.9
70°-80°	4026.3	4.7
80°-90°	463.5	0.5
90°-100°	36.9	0.0
100°-110°	4.0	0.0
110°-120°	0.1	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°	86203.1	100.0
0°-180°	86244.0	100.0

Coefficient of Utilization

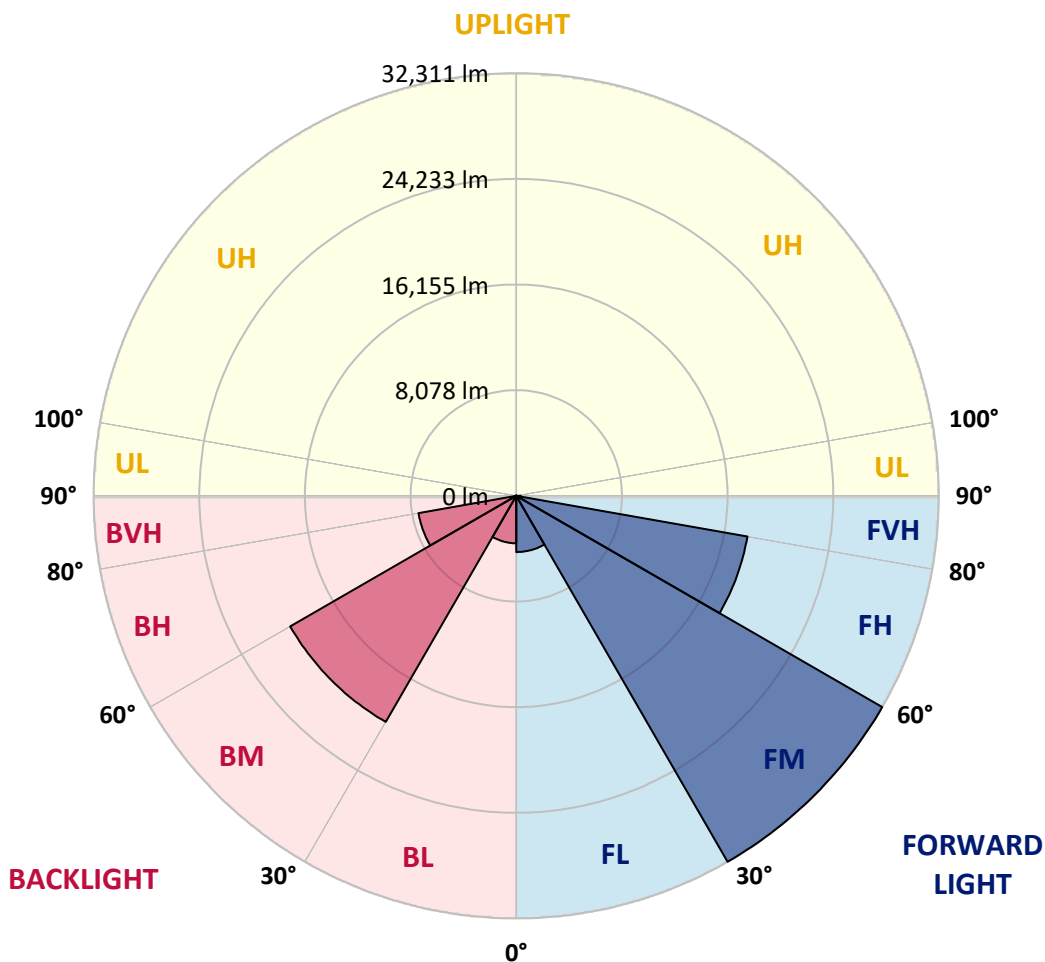


REPORT NUMBER: P579447
 CATALOG NUMBER: CTN-CA10-760-730-U-T5N-HSS-HM-EX90

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4300.3	5.0			
FM (30°-60°)	32310.9	37.5			
FH (60°-80°)	17949.8	20.8			G5
FVH (80°-90°)	337.5	0.4			G3/500
BL (0°-30°)	3627.6	4.2	B4/5000		
BM (30°-60°)	19959.4	23.1	B5		
BH (60°-80°)	7591.5	8.8	B5		G5
BVH (80°-90°)	126.0	0.1			G2/225
UL (90°-100°)	36.9	0.0		U2/50	
UH (100°-180°)	4.1	0.0		U1/10	

BUG Rating: B5-U2-G5
 Type III Short





REPORT NUMBER: P579447

CATALOG NUMBER: CTN-CA10-760-730-U-T5N-HSS-HM-EX90

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7716.8	7716.8	7716.8	7716.8	7716.8	7716.8	7716.8	7716.8	7716.8	7716.8	7716.8
2.5°	7881.7	7817.0	7826.7	7872.0	7729.7	7787.9	7726.5	7784.7	7765.3	7791.2	7810.6
5°	7994.8	7914.0	7920.5	7972.2	7862.3	7910.8	7849.4	7888.2	7855.8	7891.4	7894.6
7.5°	8150.0	8082.1	8072.4	8124.2	8030.4	8072.4	8011.0	8030.4	7998.1	8040.1	8027.2
10°	8356.9	8295.5	8279.3	8314.9	8240.5	8263.2	8198.5	8224.4	8175.9	8224.4	8201.7
12.5°	8586.4	8505.6	8508.9	8547.7	8473.3	8489.5	8437.7	8466.8	8408.6	8460.4	8444.2
15°	8858.0	8741.6	8764.3	8806.3	8735.2	8783.7	8722.2	8764.3	8709.3	8764.3	8744.9
17.5°	9210.4	9077.8	9094.0	9161.9	9103.7	9181.3	9110.2	9161.9	9136.0	9171.6	9165.1
20°	9656.5	9569.2	9553.1	9637.1	9553.1	9650.1	9611.3	9701.8	9708.2	9743.8	9760.0
22.5°	10251.4	10193.2	10154.4	10212.6	10138.2	10206.1	10261.1	10416.2	10474.4	10568.2	10574.7
25°	11043.4	11040.2	10952.9	10956.1	10862.4	10952.9	11108.1	11350.5	11505.7	11625.3	11580.1
27.5°	12113.5	12132.9	12000.3	11948.6	11838.7	11974.5	12294.5	12595.2	12876.4	13044.5	13044.5
30°	13510.1	13529.5	13335.5	13232.1	13131.8	13367.8	13749.3	14140.5	14541.4	14783.8	14728.9
32.5°	15359.3	15297.8	15019.8	14832.3	14661.0	14932.5	15372.2	15815.1	16361.5	16710.6	16668.6
35°	17602.9	17379.8	17101.8	16752.6	16384.1	16597.5	17011.3	17567.3	18327.0	18850.7	18718.2
37.5°	20208.5	19988.7	19513.5	18912.2	18268.8	18294.7	18621.2	19584.6	20535.1	20961.8	20871.3
40°	22914.4	22743.1	22306.7	21534.0	20370.2	20101.9	20638.5	21799.1	22707.5	23244.2	23092.2
42.5°	25672.1	25497.5	25167.7	24391.9	22849.8	22203.2	22762.5	24026.5	24996.4	25523.4	25348.8
45°	28423.2	28222.8	27960.9	27275.6	25804.6	24857.4	25171.0	26331.6	27217.4	27815.4	27456.6
47.5°	30841.4	30708.8	30531.0	30253.0	28966.3	27918.9	27896.3	28662.4	29273.5	29667.9	29228.2
50°	32946.0	32852.2	32952.4	32894.2	32425.5	31471.8	30886.6	30834.9	31032.1	31319.9	30692.7
52.5°	34834.0	34669.1	35040.9	35503.2	35849.1	35655.1	33760.7	32697.0	32480.4	32577.4	31866.2
55°	36379.3	36301.7	36925.6	38086.2	39686.5	40113.2	36712.2	34507.4	33708.9	33657.2	32849.0
57.5°	37323.3	37433.2	38681.0	40892.3	43827.7	43963.5	40336.3	36443.9	34905.1	34349.0	33418.0
60°	35820.0	36243.5	38373.9	42935.5	47341.9	47425.9	42996.9	36799.5	33411.5	32166.9	31012.7
62.5°	31171.1	31423.3	35047.3	42867.6	48492.7	47671.6	43630.5	34652.9	29334.9	27349.9	26283.1
65°	21957.5	22429.5	26312.2	38567.9	44189.8	44293.3	40025.9	29962.1	23425.2	21230.1	20541.5
67.5°	13261.2	13713.7	17848.6	27841.3	35923.4	37084.0	33388.9	22684.9	16797.9	14024.1	13329.0
70°	4306.2	4797.5	8133.9	16409.9	26425.3	29208.8	25125.7	14764.4	8796.6	6161.8	5415.0
72.5°	1635.8	1784.5	2647.7	7167.2	16458.4	19500.6	15540.3	7406.5	2725.3	1622.9	1425.7
75°	1063.6	1086.2	1238.2	2511.9	7936.6	10736.3	7490.5	2169.2	1092.7	969.9	898.7
77.5°	914.9	931.1	995.7	1251.1	2528.1	4105.7	2149.8	1108.9	911.7	808.2	759.7
80°	863.2	869.6	911.7	1060.4	1183.2	1370.7	1034.5	927.8	795.3	759.7	724.2
82.5°	817.9	840.5	863.2	963.4	960.2	986.0	830.8	727.4	675.7	711.2	698.3
85°	763.0	775.9	792.0	859.9	782.3	662.7	640.1	501.1	488.2	520.5	488.2
87.5°	536.7	569.0	549.6	578.7	543.1	423.5	358.8	284.5	226.3	187.5	181.0
90°	219.8	223.1	210.1	194.0	171.3	142.2	113.1	71.1	32.3	16.2	6.5
92.5°	171.3	171.3	164.9	148.7	129.3	106.7	80.8	45.3	22.6	9.7	3.2
95°	106.7	109.9	103.5	93.8	80.8	64.7	48.5	25.9	16.2	6.5	3.2
97.5°	67.9	67.9	61.4	55.0	45.3	32.3	22.6	19.4	12.9	6.5	0.0
100°	38.8	38.8	35.6	29.1	22.6	16.2	16.2	12.9	9.7	3.2	0.0
102.5°	22.6	22.6	16.2	12.9	9.7	9.7	9.7	9.7	6.5	3.2	0.0
105°	9.7	9.7	6.5	6.5	3.2	3.2	6.5	6.5	6.5	3.2	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	6.5	6.5	3.2	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	6.5	3.2	3.2



REPORT NUMBER: P579447
 CATALOG NUMBER: CTN-CA10-760-730-U-T5N-HSS-HM-EX90

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
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: P579447

CATALOG NUMBER: CTN-CA10-760-730-U-T5N-HSS-HM-EX90

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7716.8	7716.8	7716.8	7716.8	7716.8	7716.8	7716.8	7716.8	7716.8	7716.8
2.5°	7797.6	7739.4	7749.1	7694.2	7684.5	7629.5	7739.4	7752.4	7720.0	7749.1
5°	7888.2	7817.0	7839.7	7778.2	7768.5	7694.2	7791.2	7784.7	7758.8	7787.9
7.5°	8023.9	7949.6	7962.5	7894.6	7881.7	7800.9	7891.4	7862.3	7836.4	7872.0
10°	8214.7	8130.6	8137.1	8049.8	8059.5	7952.8	8062.7	8011.0	7978.7	8027.2
12.5°	8444.2	8350.5	8353.7	8263.2	8259.9	8156.5	8253.5	8224.4	8175.9	8250.2
15°	8741.6	8634.9	8625.2	8505.6	8473.3	8356.9	8447.4	8392.5	8360.2	8466.8
17.5°	9158.7	9039.0	9003.5	8858.0	8253.5	7904.3	8389.2	8554.1	8353.7	8321.4
20°	9714.7	9614.5	9533.7	9313.8	8298.7	7209.3	6404.3	6410.7	7257.7	7648.9
22.5°	10468.0	10348.4	10196.4	9882.8	7613.4	6753.4	6756.7	6747.0	5790.0	5385.9
25°	11499.2	11353.8	11043.4	9271.8	8082.1	7286.8	7267.4	6320.2	5793.3	5822.4
27.5°	12892.6	12595.2	10778.3	10044.5	8916.2	7978.7	7513.1	6362.2	6426.9	6472.2
30°	14664.2	13468.1	11648.0	11211.5	9918.4	8896.8	6947.4	7105.8	7235.1	7264.2
32.5°	16481.1	13506.8	13038.1	12575.8	11153.3	8095.1	7830.0	8130.6	8266.4	8282.6
35°	16464.9	15162.1	14557.5	14037.0	12297.8	8660.8	8828.9	9291.2	9637.1	9621.0
37.5°	17425.1	16988.6	16267.7	15608.2	11069.3	9756.7	10057.4	10581.1	11001.4	10988.5
40°	19432.7	18928.3	18165.4	16781.7	12255.7	11011.1	11431.4	11993.9	12291.3	12307.5
42.5°	21330.3	20913.3	20134.2	15679.3	13739.6	12520.8	12902.3	13280.5	13464.8	13523.0
45°	23218.3	22920.9	20328.2	17328.1	15533.8	14040.3	14292.4	14363.6	14557.5	14534.9
47.5°	24750.7	24420.9	19545.8	19397.1	17709.6	15482.1	15462.7	15369.0	15440.1	15456.3
50°	26150.5	22177.4	21117.0	21611.6	19991.9	16953.1	16584.5	16393.8	16296.8	16254.8
52.5°	27256.2	22183.8	22584.7	23900.5	22568.5	18550.1	17758.0	17221.4	15078.0	16755.9
55°	28196.9	23098.7	23974.8	26347.7	24789.5	20221.5	18818.4	17861.5	10063.9	8069.2
57.5°	28736.8	23793.8	25352.0	28639.8	26729.2	22080.4	17324.8	14981.0	5689.8	5683.4
60°	26651.6	22545.9	25313.2	29842.4	26169.9	17127.6	7054.1	5903.2	1076.5	1105.6
62.5°	22562.1	19613.7	24007.1	29182.9	24372.5	15068.3	6326.7	4545.4	35.6	29.1
65°	17480.0	15647.0	20215.0	25668.8	22174.1	12572.6	4716.7	3274.9	9.7	0.0
67.5°	11434.6	11027.3	14916.4	21285.1	18084.6	9740.6	3165.0	1567.9	6.5	0.0
70°	4875.1	5647.8	9449.6	15433.6	13843.1	6701.7	1525.9	565.7	3.2	0.0
72.5°	1364.3	1807.2	4205.9	9042.3	8706.1	3523.8	594.8	239.2	3.2	0.0
75°	808.2	695.1	1205.9	3607.9	4238.3	1238.2	274.8	184.3	3.2	0.0
77.5°	672.4	543.1	691.8	921.4	1283.4	446.1	232.8	164.9	0.0	0.0
80°	630.4	481.7	598.1	643.3	633.6	371.8	229.5	164.9	0.0	0.0
82.5°	598.1	420.3	494.6	494.6	530.2	342.7	216.6	161.6	0.0	0.0
85°	449.4	294.2	329.8	426.7	381.5	242.5	158.4	129.3	0.0	0.0
87.5°	171.3	106.7	129.3	135.8	109.9	55.0	12.9	12.9	0.0	0.0
90°	3.2	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
95°	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
100°	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
105°	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
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P579447
 CATALOG NUMBER: CTN-CA10-760-730-U-T5N-HSS-HM-EX90

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	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
117.5°	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
122.5°	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
127.5°	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
132.5°	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
137.5°	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
142.5°	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
147.5°	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
152.5°	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
157.5°	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
162.5°	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
167.5°	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
172.5°	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
177.5°	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

(END OF REPORT)