

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: P579436

Luminaire Tested: **CTN-CA10-630-730-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-630-730-U-T5-HSS-HM-EX120
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: 66605 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U3 - G5

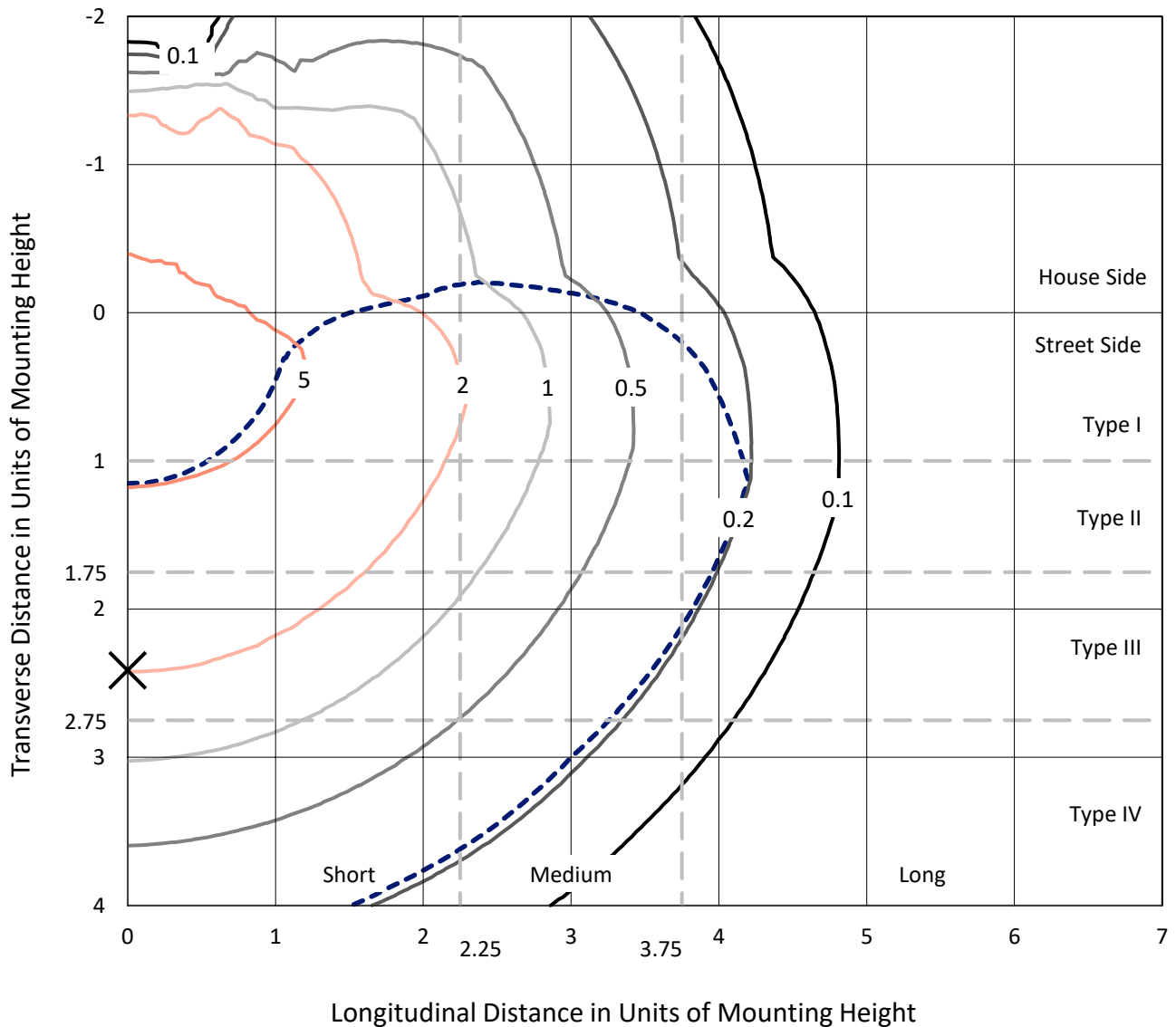
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P579436
 CATALOG NUMBER: CTN-CA10-630-730-U-T5-HSS-HM-EX120

Iso-Footcandle Lines of Horizontal Illumination

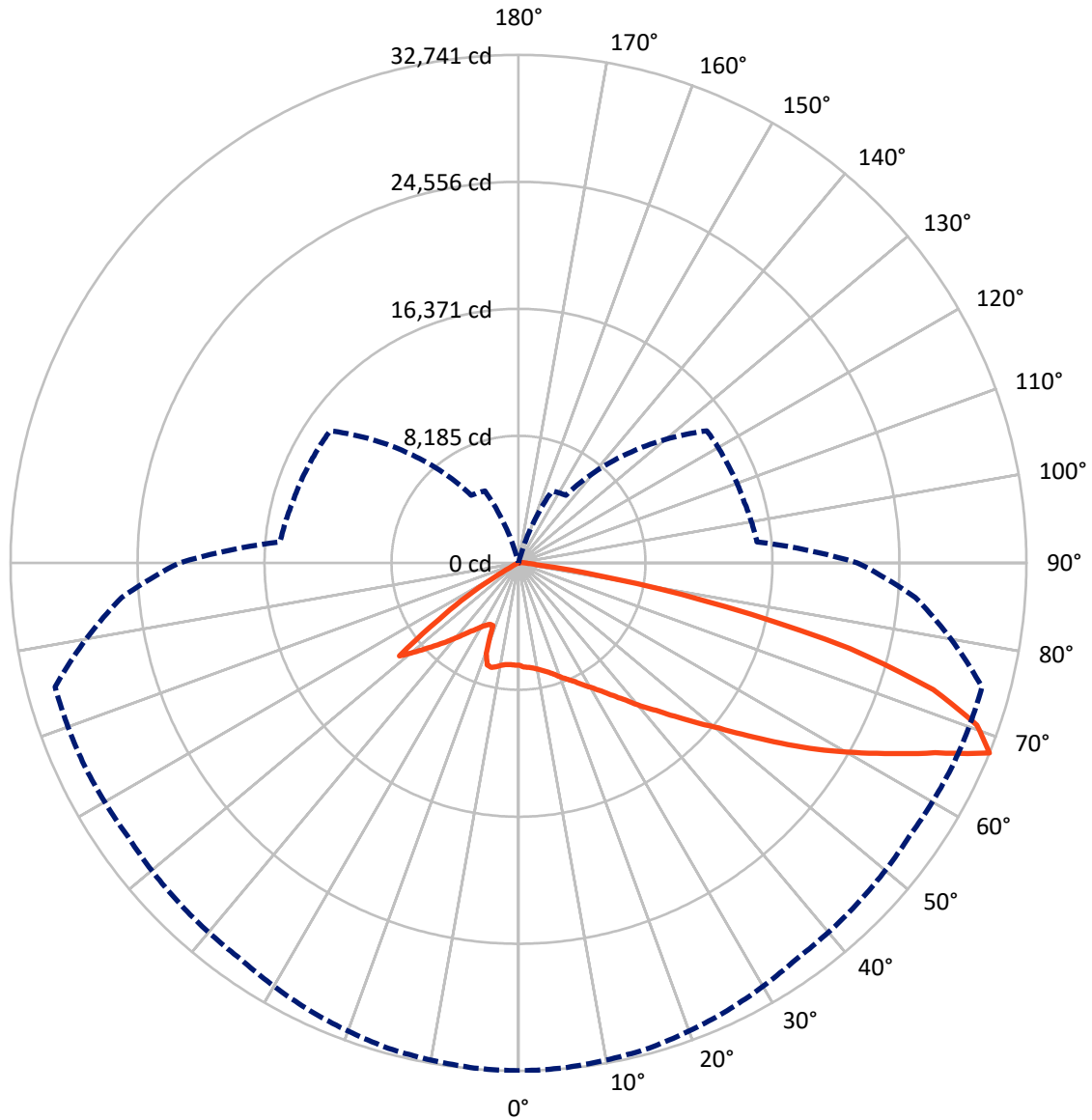
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P579436
CATALOG NUMBER: CTN-CA10-630-730-U-T5-HSS-HM-EX120

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P579436
 CATALOG NUMBER: CTN-CA10-630-730-U-T5-HSS-HM-EX120

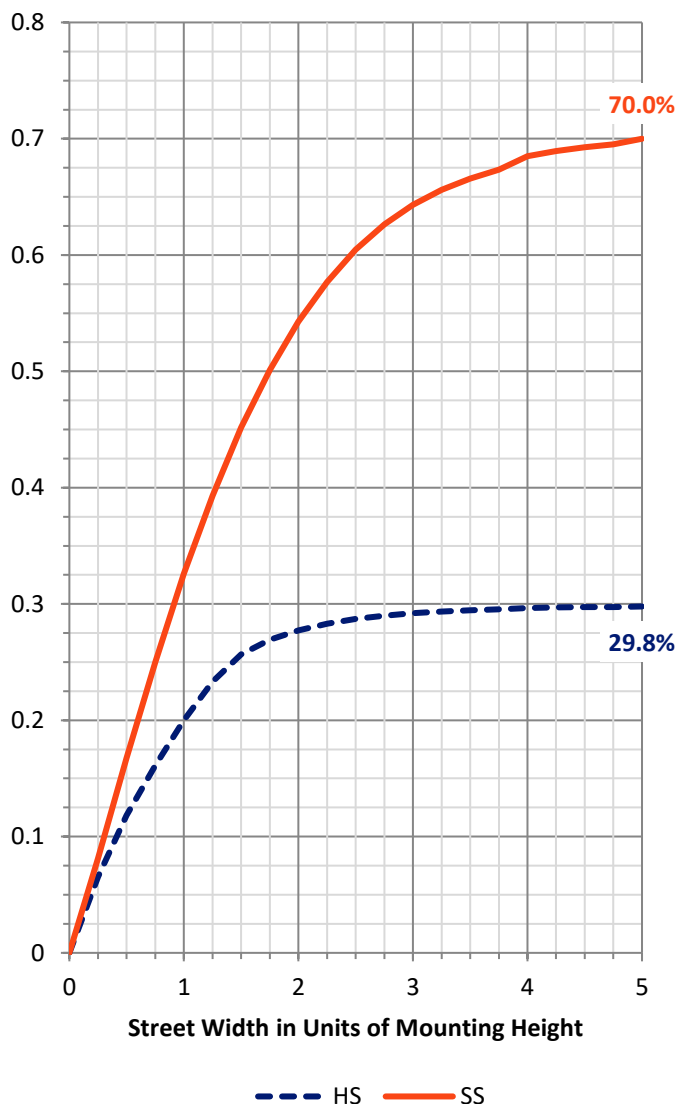
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19882.0	6.7	19888.6
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	46641.4	75.0	46716.3
	% Fixture	70.0	0.1	70.1
Total	Lumens	66523.3	81.7	66605.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.3	1.0
10°-20°	1969.8	3.0
20°-30°	3305.7	5.0
30°-40°	5360.4	8.0
40°-50°	8759.4	13.2
50°-60°	13727.5	20.6
60°-70°	18385.3	27.6
70°-80°	13400.4	20.1
80°-90°	978.6	1.5
90°-100°	62.6	0.1
100°-110°	17.8	0.0
110°-120°	1.3	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°	66523.3	99.9
0°-180°	66605.0	100.0

Coefficient of Utilization



REPORT NUMBER: P579436

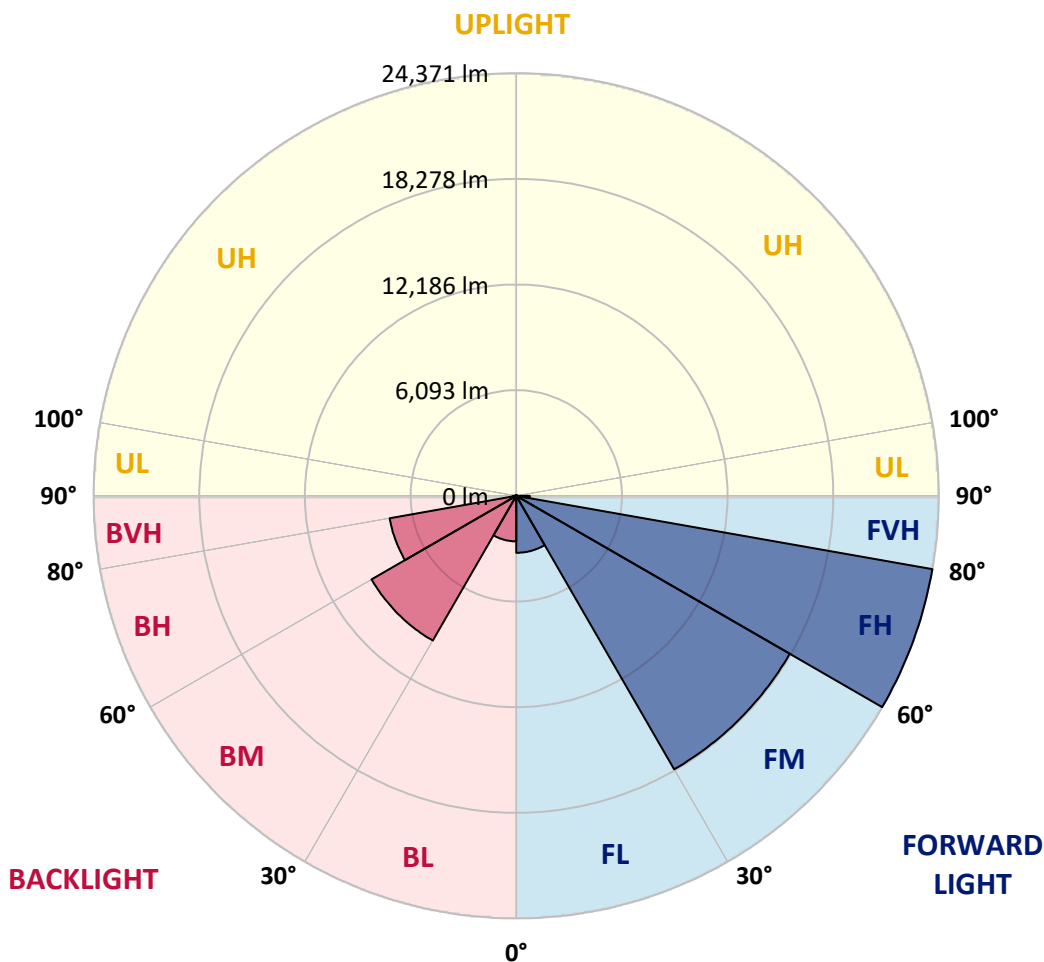
CATALOG NUMBER: CTN-CA10-630-730-U-T5-HSS-HM-EX120

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3285.3	4.9			
FM (30°-60°)	18211.0	27.3			
FH (60°-80°)	24371.2	36.6			G5
FVH (80°-90°)	773.8	1.2			G5
BL (0°-30°)	2626.4	3.9	B4/5000		
BM (30°-60°)	9636.2	14.5	B5		
BH (60°-80°)	7414.6	11.1	B5		G5
BVH (80°-90°)	204.7	0.3			G2/225
UL (90°-100°)	62.6	0.1		U3/500	
UH (100°-180°)	19.1	0.0		U2/50	

BUG Rating: B5-U3-G5

Type IV Short





REPORT NUMBER: P579436

CATALOG NUMBER: CTN-CA10-630-730-U-T5-HSS-HM-EX120

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6599.8	6599.8	6599.8	6599.8	6599.8	6599.8	6599.8	6599.8	6599.8	6599.8	6599.8
2.5°	6725.8	6686.6	6689.4	6725.8	6616.6	6653.0	6605.4	6641.8	6616.6	6625.0	6641.8
5°	6767.8	6725.8	6728.6	6773.4	6675.4	6706.2	6641.8	6661.4	6639.0	6650.2	6650.2
7.5°	6851.8	6804.2	6801.4	6829.4	6728.6	6739.8	6681.0	6683.8	6650.2	6672.6	6661.4
10°	6977.8	6938.6	6910.6	6927.4	6837.8	6832.2	6756.6	6759.4	6717.4	6742.6	6723.0
12.5°	7131.8	7078.6	7073.0	7078.6	6980.6	6958.2	6879.8	6885.4	6809.8	6849.0	6826.6
15°	7327.8	7243.8	7243.8	7274.6	7148.6	7131.8	7036.6	7042.2	6963.8	6994.6	6972.2
17.5°	7568.6	7487.4	7473.4	7495.8	7386.6	7364.2	7266.2	7260.6	7173.8	7182.2	7162.6
20°	7879.4	7798.2	7764.6	7820.6	7683.4	7666.6	7549.0	7537.8	7445.4	7420.2	7409.0
22.5°	8167.8	8103.4	8086.6	8148.2	8005.4	7991.4	7879.4	7865.4	7778.6	7742.2	7521.0
25°	8492.7	8478.7	8473.1	8492.7	8358.2	8330.2	8243.4	8223.8	8151.0	8106.2	7837.4
27.5°	8912.7	8907.1	8890.3	8893.1	8769.9	8744.7	8663.5	8649.5	8573.9	8523.5	8179.0
30°	9352.3	9352.3	9315.9	9335.5	9273.9	9234.7	9170.3	9119.9	9072.3	9019.1	8585.1
32.5°	9859.1	9856.3	9822.7	9881.5	9836.7	9836.7	9797.5	9744.3	9660.3	9635.1	9108.7
35°	10511.5	10469.5	10455.5	10550.7	10536.7	10561.9	10547.9	10491.9	10421.9	10363.1	9724.7
37.5°	11233.9	11222.7	11264.7	11323.5	11354.3	11421.5	11379.5	11376.7	11365.5	11217.1	9559.5
40°	12124.4	12076.8	12135.6	12166.4	12144.0	12253.2	12216.8	12247.6	12331.6	11138.7	9548.3
42.5°	13012.0	12970.0	13012.0	13163.2	13129.6	13261.2	13244.4	13364.8	13412.4	11303.9	10323.9
45°	14104.0	14056.4	14090.0	14269.2	14286.0	14445.6	14532.4	14647.2	14669.6	12373.6	11259.1
47.5°	15358.5	15280.1	15344.5	15428.5	15683.3	15834.5	15918.5	16058.5	16201.3	13661.6	12323.2
50°	16741.7	16736.1	16806.1	16951.7	17242.9	17394.1	17539.7	17685.3	17920.5	15098.0	13516.0
52.5°	18500.1	18463.7	18584.1	18721.4	18979.0	19211.4	19385.0	19536.2	19788.2	16551.3	14806.8
55°	20510.6	20384.6	20614.2	20846.6	20955.8	21230.2	21350.6	21476.6	21717.4	18080.1	15560.1
57.5°	22680.7	22649.9	22809.5	22893.5	23128.7	23299.5	23363.9	23501.1	23498.3	19670.6	16842.5
60°	24817.1	24783.5	24971.1	25021.5	25209.1	25363.1	25340.7	25464.0	25508.8	21163.0	18099.7
62.5°	27065.6	27009.6	27183.2	27194.4	27082.4	27331.6	27306.4	27410.0	27370.8	22621.9	19337.4
65°	29524.1	29566.1	29622.1	29392.5	29123.7	29339.3	29333.7	29529.7	29669.7	24660.3	20995.0
67.5°	32741.4	32688.2	32399.8	31845.3	31192.9	30974.5	30742.1	30884.9	30924.1	25674.0	21843.4
70°	31352.5	31234.9	31106.1	30540.5	29753.7	29199.3	28838.1	28989.3	29148.9	24262.7	20516.2
72.5°	27967.2	27676.0	27076.8	26578.4	26124.8	25584.4	25144.7	25408.0	25758.0	21521.4	18166.9
75°	22064.7	21793.0	21356.2	21017.4	20773.8	20768.2	20748.6	20953.0	20902.6	17475.3	14770.4
77.5°	13664.4	14232.8	14636.0	14347.6	14448.4	14241.2	14697.6	14966.4	15210.0	12527.6	10522.7
80°	6308.6	6454.2	7168.2	6983.4	6835.0	6793.0	6821.0	7288.6	7425.8	5622.6	4709.7
82.5°	1439.2	1380.4	1430.8	1327.2	1321.6	1260.0	1268.4	1268.4	1223.6	1036.0	868.0
85°	728.0	744.8	750.4	719.6	635.6	571.2	529.2	448.0	386.4	330.4	280.0
87.5°	487.2	501.2	509.6	467.6	420.0	366.8	333.2	271.6	215.6	134.4	103.6
90°	333.2	330.4	322.0	299.6	268.8	229.6	184.8	128.8	75.6	28.0	19.6
92.5°	238.0	232.4	229.6	210.0	187.6	156.8	120.4	81.2	42.0	19.6	11.2
95°	156.8	154.0	154.0	142.8	126.0	103.6	81.2	53.2	30.8	16.8	11.2
97.5°	109.2	106.4	106.4	100.8	89.6	75.6	56.0	36.4	25.2	16.8	11.2
100°	75.6	75.6	75.6	70.0	64.4	53.2	42.0	28.0	22.4	16.8	11.2
102.5°	50.4	50.4	53.2	50.4	44.8	36.4	28.0	22.4	19.6	14.0	11.2
105°	33.6	33.6	33.6	33.6	30.8	25.2	22.4	19.6	16.8	14.0	11.2
107.5°	22.4	22.4	22.4	22.4	19.6	16.8	16.8	16.8	14.0	14.0	11.2
110°	14.0	14.0	14.0	16.8	14.0	14.0	14.0	14.0	14.0	11.2	11.2



REPORT NUMBER: P579436
 CATALOG NUMBER: CTN-CA10-630-730-U-T5-HSS-HM-EX120

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: P579436

CATALOG NUMBER: CTN-CA10-630-730-U-T5-HSS-HM-EX120

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6599.8	6599.8	6599.8	6599.8	6599.8	6599.8	6599.8	6599.8	6599.8	6599.8
2.5°	6627.8	6588.6	6608.2	6569.0	6552.2	6515.8	6585.8	6591.4	6585.8	6597.0
5°	6636.2	6591.4	6613.8	6569.0	6560.6	6518.6	6588.6	6588.6	6571.8	6580.2
7.5°	6655.8	6608.2	6625.0	6571.8	6571.8	6521.4	6605.4	6599.8	6585.8	6605.4
10°	6723.0	6667.0	6667.0	6616.6	6622.2	6569.0	6672.6	6672.6	6661.4	6695.0
12.5°	6826.6	6756.6	6759.4	6689.4	6700.6	6658.6	6784.6	6790.2	6790.2	6846.2
15°	6961.0	6854.6	6865.8	6790.2	6812.6	6762.2	6874.2	6868.6	6882.6	6963.8
17.5°	7126.2	7008.6	6910.6	6664.2	6518.6	6524.2	6857.4	7011.4	6832.2	6885.4
20°	7196.2	6625.0	6314.2	6224.6	6205.0	5894.2	5258.6	5356.6	5955.8	6216.2
22.5°	6725.8	6543.8	6513.0	6398.2	5549.8	5314.6	5353.8	5297.8	4709.7	4376.5
25°	6955.4	6835.0	6765.0	5754.2	5563.8	5521.8	5493.8	4961.7	4323.3	4354.1
27.5°	7280.2	7123.4	6283.4	5779.4	5815.8	5751.4	5589.0	4463.3	4443.7	4494.1
30°	7663.8	7269.0	6123.8	6076.2	6118.2	6034.2	4698.5	4653.7	4653.7	4704.1
32.5°	8134.2	6594.2	6499.0	6504.6	6476.6	5524.6	4944.9	4933.7	4967.3	5009.3
35°	8002.6	7033.8	7042.2	7089.8	7025.4	5404.2	5331.4	5289.4	5317.4	5334.2
37.5°	7745.0	7694.6	7694.6	7641.4	5997.8	5827.0	5748.6	5743.0	5740.2	5740.2
40°	8394.6	8347.0	8288.2	8195.8	6275.0	6319.8	6202.2	6188.2	6196.6	6227.4
42.5°	9133.9	9114.3	9108.7	7033.8	6851.8	6885.4	6759.4	6723.0	6723.0	6793.0
45°	10004.7	9979.5	9360.7	7518.2	7487.4	7526.6	7386.6	7299.8	7347.4	7397.8
47.5°	11004.3	11004.3	8288.2	8243.4	8243.4	8265.8	8125.8	8008.2	8055.8	8072.6
50°	12099.2	10388.3	9119.9	9077.9	9117.1	9105.9	8960.3	7868.2	8879.1	8887.5
52.5°	12404.4	10102.7	10032.7	9985.1	10032.7	10024.3	9873.1	6563.4	9604.3	9741.5
55°	10995.9	11004.3	10990.3	10920.3	10970.7	10951.1	10802.7	7165.4	7081.4	6311.4
57.5°	11889.2	11900.4	11894.8	11883.6	11928.4	8666.3	11189.1	6473.8	3953.7	3956.5
60°	12860.8	12804.8	12788.0	12762.8	10816.7	6143.4	4662.1	450.8	1545.6	1523.2
62.5°	13742.8	13723.2	13664.4	13650.4	9178.7	4838.5	4726.5	103.6	81.2	78.4
65°	14969.2	14795.6	14748.0	14599.6	9783.5	5152.2	5045.7	30.8	2.8	0.0
67.5°	15425.7	15072.8	14902.0	14823.6	9954.3	5314.6	5110.2	30.8	2.8	0.0
70°	14563.2	14126.4	13910.8	13824.0	9301.9	4967.3	4765.7	30.8	2.8	0.0
72.5°	12914.0	12592.0	12505.2	12228.0	8201.4	4359.7	4183.3	30.8	0.0	0.0
75°	10592.7	10475.1	10368.7	10074.7	6667.0	3463.7	3306.9	28.0	0.0	0.0
77.5°	7708.6	7535.0	7339.0	7019.8	4499.7	2262.5	2181.3	25.2	0.0	0.0
80°	3474.9	3332.1	3284.5	2786.1	1596.0	736.4	649.6	22.4	0.0	0.0
82.5°	674.8	607.6	576.8	554.4	358.4	198.8	173.6	16.8	0.0	0.0
85°	229.6	254.8	296.8	327.6	201.6	120.4	100.8	11.2	0.0	0.0
87.5°	89.6	120.4	145.6	151.2	75.6	50.4	28.0	5.6	0.0	0.0
90°	16.8	22.4	19.6	14.0	8.4	2.8	0.0	0.0	0.0	0.0
92.5°	8.4	11.2	8.4	8.4	5.6	2.8	0.0	0.0	0.0	0.0
95°	11.2	11.2	11.2	8.4	5.6	2.8	0.0	0.0	0.0	0.0
97.5°	11.2	11.2	11.2	8.4	5.6	2.8	0.0	0.0	0.0	0.0
100°	11.2	11.2	11.2	8.4	5.6	2.8	0.0	0.0	0.0	0.0
102.5°	11.2	11.2	11.2	8.4	5.6	2.8	0.0	0.0	0.0	0.0
105°	11.2	14.0	11.2	8.4	5.6	2.8	0.0	0.0	0.0	0.0
107.5°	11.2	14.0	11.2	8.4	5.6	2.8	0.0	0.0	0.0	0.0
110°	11.2	14.0	11.2	8.4	5.6	2.8	0.0	0.0	0.0	0.0



REPORT NUMBER: P579436
 CATALOG NUMBER: CTN-CA10-630-730-U-T5-HSS-HM-EX120

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)