

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: P579445

Luminaire Tested: **CTN-CA10-760-730-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-5)
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-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: 82166 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U2 - G5

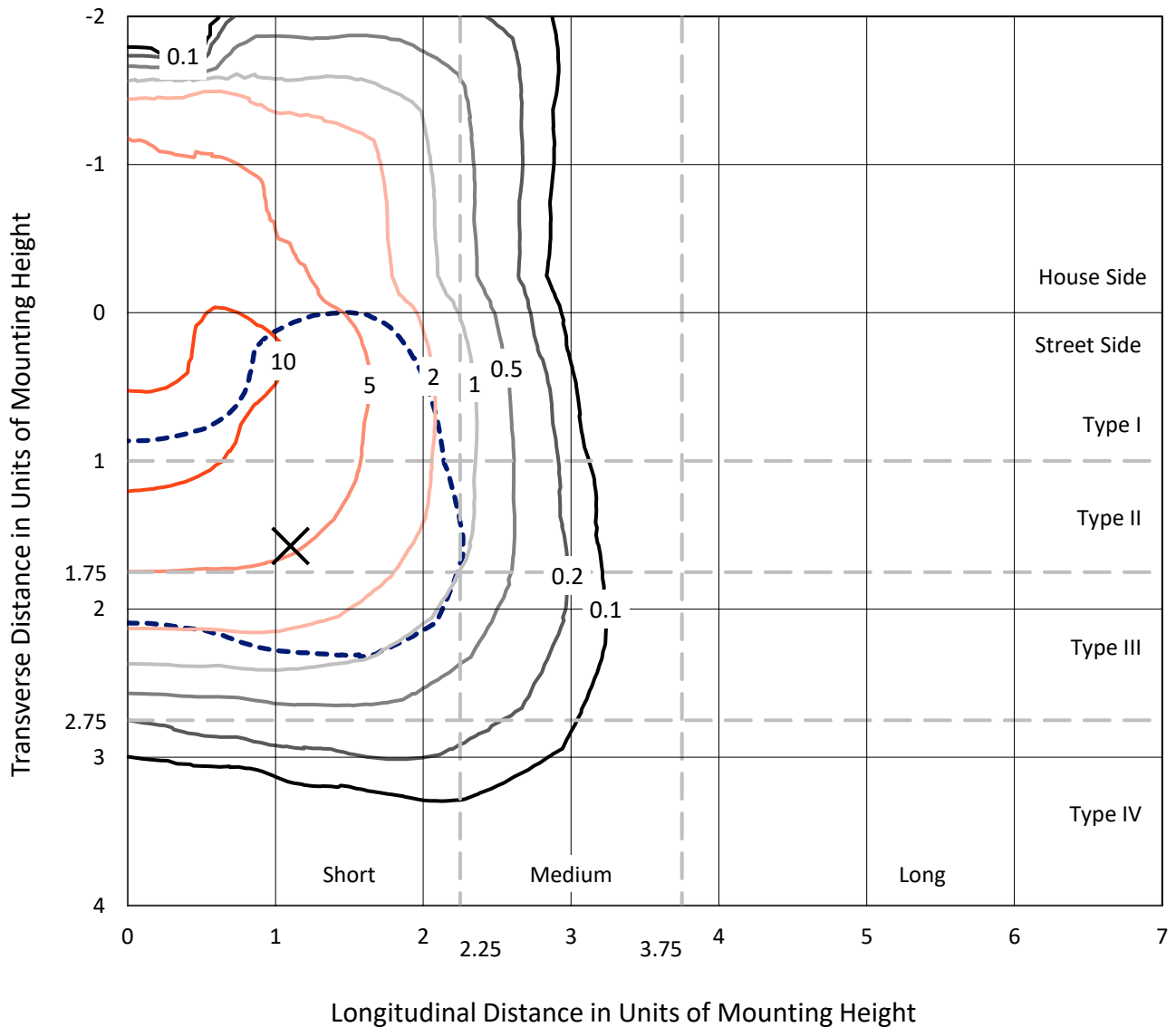
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

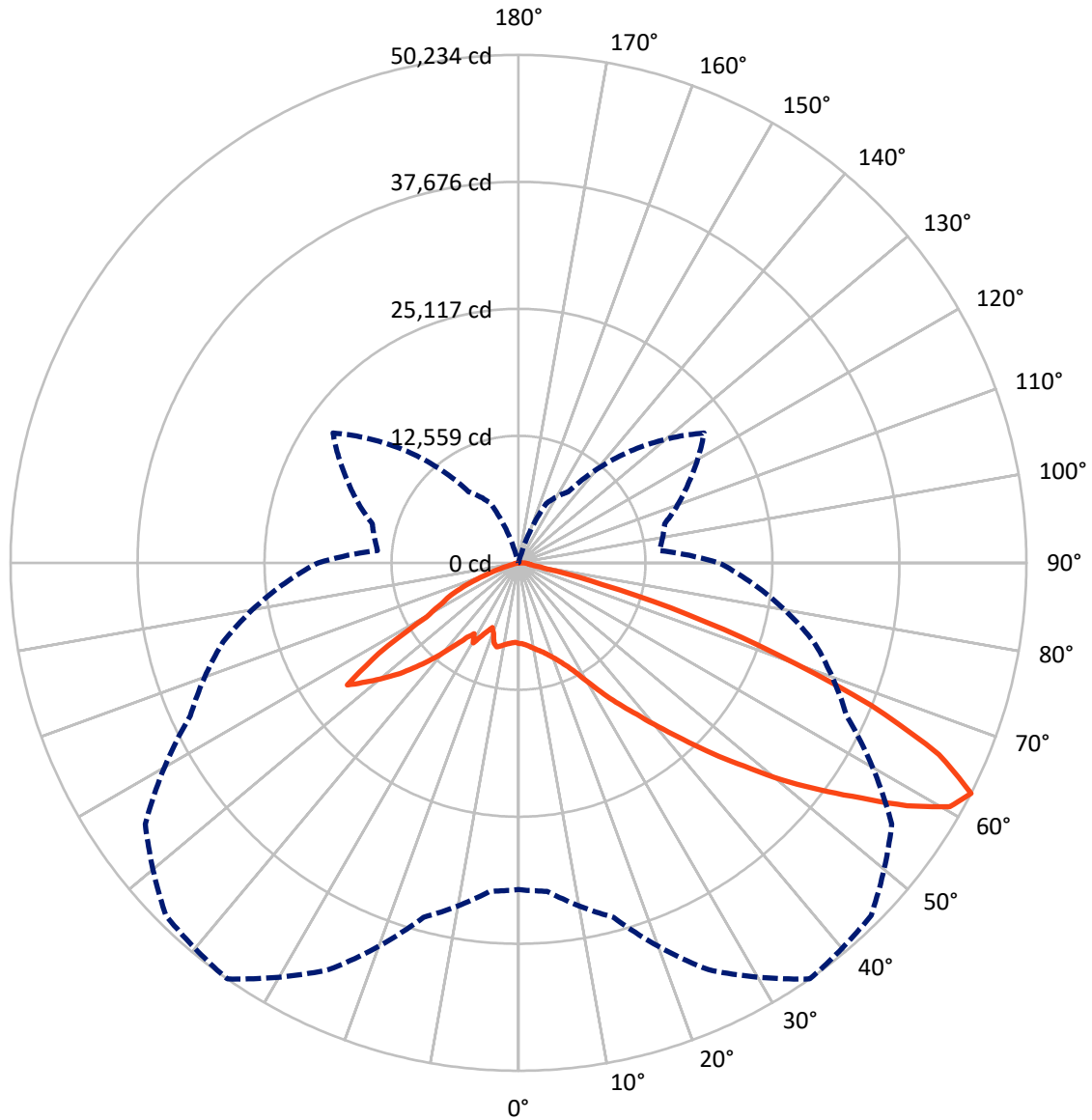
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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



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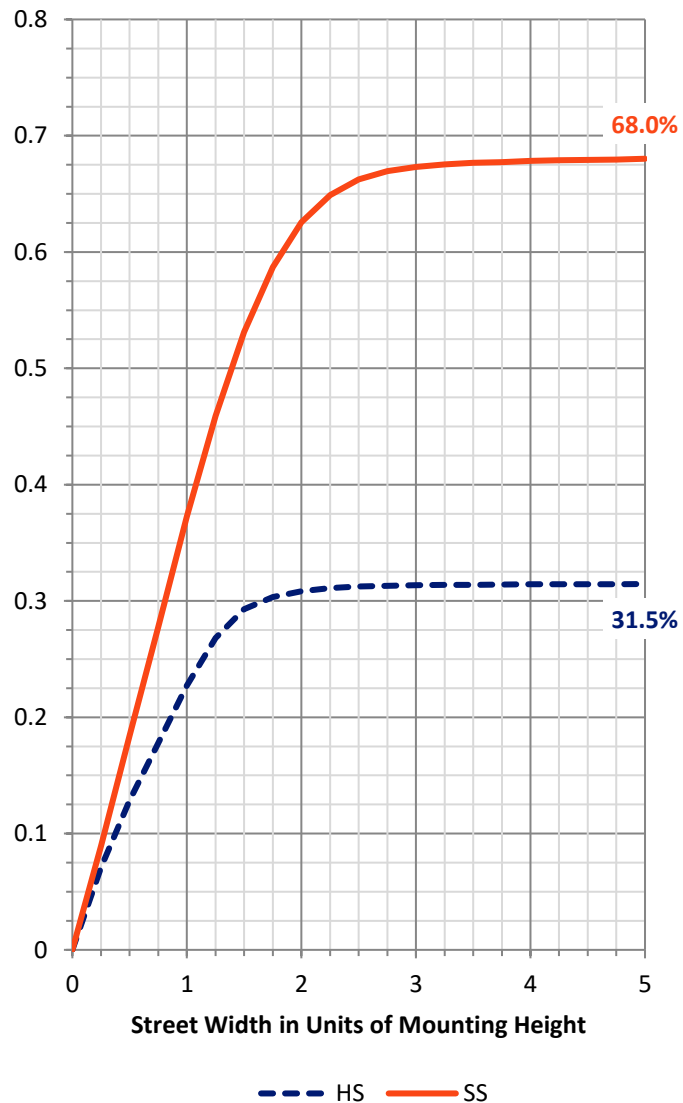
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25993.8	0.0	25993.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	56125.3	46.9	56172.2
	% Fixture	68.3	0.1	68.4
Total	Lumens	82119.1	46.9	82166.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	786.5	1.0
10°-20°	2528.6	3.1
20°-30°	4695.4	5.7
30°-40°	9257.3	11.3
40°-50°	16617.9	20.2
50°-60°	24155.9	29.4
60°-70°	19852.2	24.2
70°-80°	3773.6	4.6
80°-90°	451.7	0.5
90°-100°	42.8	0.1
100°-110°	4.1	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°	82119.1	99.9
0°-180°	82166.0	100.0

Coefficient of Utilization

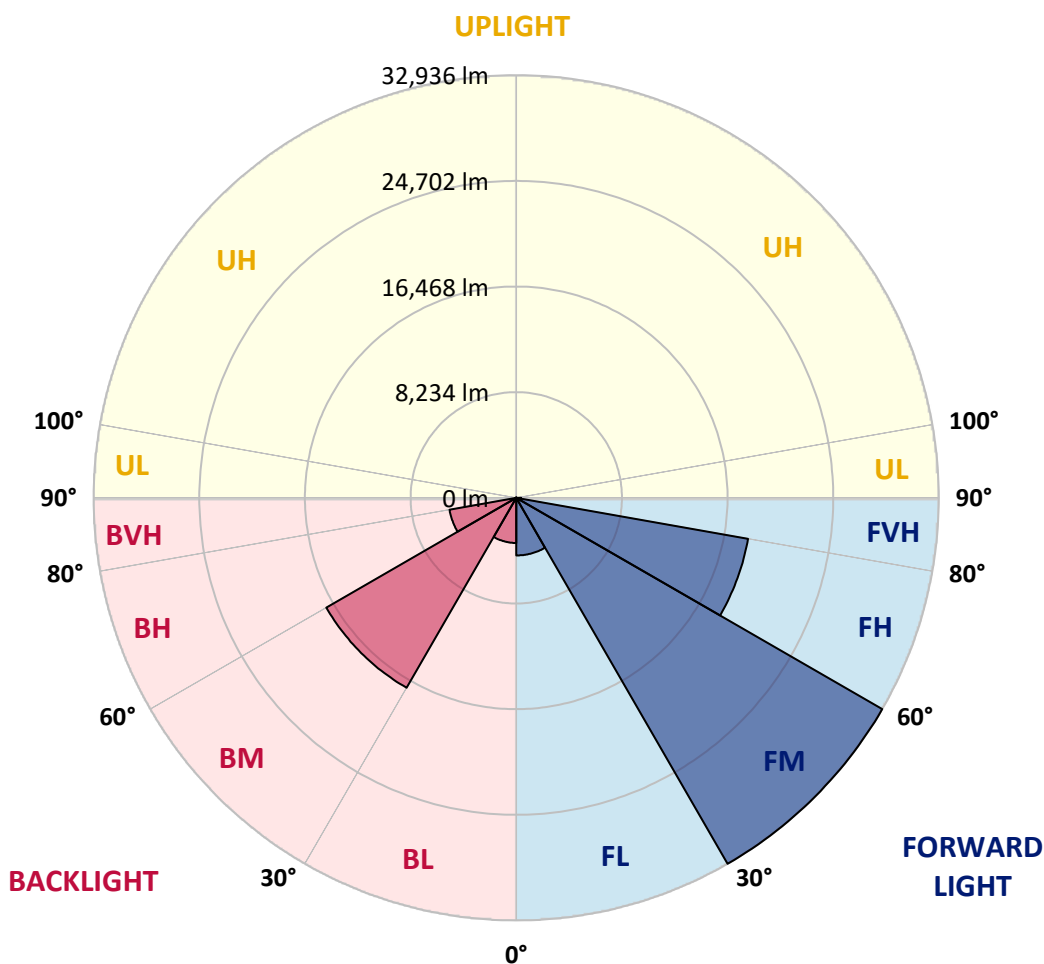


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 CATALOG NUMBER: CTN-CA10-760-730-U-T5N-HSS-HM-EX120

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4490.8	5.5			
FM (30°-60°)	32935.9	40.1			
FH (60°-80°)	18341.3	22.3			G5
FVH (80°-90°)	357.2	0.4			G3/500
BL (0°-30°)	3519.6	4.3	B4/5000		
BM (30°-60°)	17095.1	20.8	B5		
BH (60°-80°)	5284.5	6.4	B5		G5
BVH (80°-90°)	94.5	0.1			G1/100
UL (90°-100°)	42.8	0.1		U2/50	
UH (100°-180°)	4.2	0.0		U1/10	

BUG Rating: B5-U2-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7975.5	7975.5	7975.5	7975.5	7975.5	7975.5	7975.5	7975.5	7975.5	7975.5	7975.5
2.5°	8179.2	8112.4	8119.1	8169.2	8018.9	8069.0	7998.9	8059.0	8032.3	8059.0	8075.7
5°	8342.9	8259.4	8256.0	8306.1	8185.9	8215.9	8135.8	8175.9	8139.1	8172.5	8172.5
7.5°	8543.2	8473.1	8456.4	8496.5	8389.6	8403.0	8322.8	8339.5	8296.1	8339.5	8306.1
10°	8793.7	8730.3	8703.6	8723.6	8626.7	8633.4	8546.6	8553.3	8489.8	8526.5	8499.8
12.5°	9057.6	8970.7	8957.4	8990.8	8890.6	8877.2	8803.8	8810.4	8740.3	8773.7	8753.7
15°	9331.4	9241.3	9244.6	9278.0	9177.8	9184.5	9107.7	9121.0	9050.9	9084.3	9057.6
17.5°	9695.5	9605.3	9598.6	9658.7	9575.3	9602.0	9521.8	9538.5	9488.4	9495.1	9465.0
20°	10216.5	10099.6	10076.2	10163.1	10052.8	10086.2	10042.8	10099.6	10079.6	10062.9	10039.5
22.5°	10837.7	10747.5	10700.8	10767.6	10637.3	10700.8	10724.1	10841.0	10871.1	10851.1	10483.7
25°	11669.3	11622.6	11575.8	11545.7	11388.8	11489.0	11609.2	11802.9	11929.8	11979.9	11468.9
27.5°	12791.5	12814.9	12611.1	12577.7	12400.7	12557.7	12774.8	13088.7	13345.9	13439.4	12751.4
30°	14234.3	14264.4	13987.1	13907.0	13800.1	13933.7	14337.8	14681.8	15062.6	15219.5	14301.1
32.5°	16151.3	16124.6	15717.2	15563.5	15466.7	15520.1	15944.3	16415.2	16842.7	17196.7	16067.9
35°	18492.6	18409.1	17974.9	17550.7	17166.7	17330.3	17640.9	18212.0	18859.9	19381.0	17811.2
37.5°	21211.2	21131.0	20469.7	19778.4	19020.3	19090.4	19367.6	20299.4	21134.4	21271.3	17514.0
40°	24020.0	23986.6	23362.0	22483.6	21304.7	20974.0	21341.4	22477.0	23358.7	20970.7	18205.3
42.5°	26825.4	26665.1	26314.4	25436.0	23866.3	23138.2	23632.5	24768.1	25716.6	21986.0	19808.4
45°	29654.2	29490.6	29193.3	28548.7	26915.6	25856.9	26000.5	27259.6	28117.9	23889.7	21478.4
47.5°	32165.8	32045.5	31831.8	31471.1	30014.9	29056.4	28779.2	29660.9	30245.4	25436.0	22760.8
50°	34330.0	34226.4	34309.9	34189.7	33762.2	32756.9	31841.8	31785.0	32065.6	26812.0	23939.8
52.5°	36233.7	36093.4	36450.7	36874.9	37269.0	37045.2	34830.9	33798.9	33545.1	27844.0	24731.3
55°	37806.7	37756.6	38371.1	39516.7	41016.3	41604.1	38027.1	35659.2	34867.7	28719.1	24804.8
57.5°	38748.5	38868.8	40168.0	42385.6	45318.0	45595.2	41767.7	37636.4	36033.3	29250.1	25155.5
60°	37138.8	37546.2	39884.1	44536.4	48978.4	49098.6	44456.3	38030.5	34507.0	27339.7	23281.9
62.5°	32316.1	32610.0	36287.1	44399.5	50234.2	49319.1	45057.5	35806.2	30242.0	23191.7	19801.8
65°	22834.3	23175.0	27606.9	40037.7	45702.0	45735.4	41273.4	30963.4	24173.6	17954.8	15289.7
67.5°	13773.4	14324.5	18522.6	29066.4	37629.7	38314.4	34433.5	23442.2	17300.2	11722.8	9895.9
70°	4518.8	5023.1	8456.4	17203.4	27126.0	30058.3	25860.2	15232.9	9034.2	4956.3	3991.1
72.5°	1790.1	2020.6	2979.1	7608.1	17480.6	20069.0	15934.3	7361.0	3032.6	1315.9	1145.6
75°	1195.7	1219.0	1376.0	2591.7	8553.3	10974.6	7681.6	2140.8	1125.5	821.6	721.4
77.5°	1042.0	1045.4	1115.5	1366.0	2785.4	4208.2	2211.0	1148.9	931.8	674.6	597.8
80°	955.2	968.5	1012.0	1165.6	1275.8	1429.4	1092.1	958.5	808.2	621.2	564.4
82.5°	915.1	925.1	951.8	1055.4	1032.0	1072.1	881.7	761.5	681.3	571.1	541.1
85°	835.0	851.7	868.4	931.8	848.3	734.8	681.3	511.0	487.6	430.8	397.4
87.5°	631.2	627.9	611.2	621.2	567.8	464.2	384.1	287.2	233.8	193.7	160.3
90°	263.8	267.2	257.2	243.8	213.7	177.0	133.6	80.2	40.1	13.4	6.7
92.5°	200.4	203.7	197.0	177.0	153.6	123.6	90.2	46.8	26.7	10.0	3.3
95°	123.6	126.9	120.2	106.9	93.5	70.1	46.8	30.1	16.7	6.7	0.0
97.5°	73.5	76.8	70.1	63.5	50.1	33.4	26.7	20.0	13.4	6.7	0.0
100°	43.4	43.4	40.1	33.4	23.4	20.0	16.7	13.4	10.0	3.3	0.0
102.5°	20.0	20.0	20.0	13.4	10.0	10.0	10.0	10.0	10.0	3.3	0.0
105°	6.7	6.7	3.3	3.3	3.3	6.7	6.7	6.7	6.7	3.3	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.7	6.7	3.3	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3	0.0



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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



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7975.5	7975.5	7975.5	7975.5	7975.5	7975.5	7975.5	7975.5	7975.5	7975.5
2.5°	8059.0	7995.5	8005.5	7948.8	7935.4	7875.3	7982.2	7992.2	7962.1	7992.2
5°	8159.2	8082.4	8102.4	8038.9	8022.2	7938.7	8025.6	8018.9	7995.5	8025.6
7.5°	8306.1	8219.3	8229.3	8155.8	8139.1	8045.6	8125.8	8102.4	8075.7	8112.4
10°	8493.2	8409.7	8413.0	8312.8	8302.8	8195.9	8299.4	8256.0	8215.9	8269.4
12.5°	8753.7	8636.8	8626.7	8516.5	8513.2	8403.0	8509.9	8473.1	8419.7	8503.2
15°	9054.2	8897.3	8857.2	8716.9	8713.6	8596.7	8703.6	8646.8	8620.1	8720.3
17.5°	9445.0	9247.9	8944.0	8466.4	8249.3	8286.1	8663.5	8800.4	8443.1	8496.5
20°	9682.1	8726.9	8282.7	8085.7	7982.2	7387.7	6582.8	6649.6	7441.1	7818.5
22.5°	9281.3	8997.5	8833.8	8556.6	7113.8	6910.1	6956.8	6943.5	5921.5	5617.6
25°	10116.3	9849.1	9551.9	7841.9	7544.6	7457.8	7481.2	6522.7	5964.9	5988.3
27.5°	11318.6	10974.6	9091.0	8349.5	8289.4	8162.5	7701.6	6549.4	6619.5	6666.3
30°	12838.3	11615.9	9682.1	9358.2	9237.9	9101.0	7147.2	7317.5	7447.8	7591.4
32.5°	14307.8	11298.6	10814.3	10477.0	10290.0	8262.7	8062.3	8376.3	8506.5	8630.1
35°	14174.2	12657.9	12030.0	11602.5	11251.8	8917.3	9094.3	9571.9	9915.9	9912.6
37.5°	14541.6	14137.4	13412.7	12871.6	9765.6	9989.4	10360.1	10904.5	11322.0	11318.6
40°	16074.5	15637.0	14955.7	13793.4	10821.0	11342.0	11849.7	12360.7	12661.2	12684.6
42.5°	17597.5	17260.2	16645.6	12183.6	12113.5	12834.9	13365.9	13689.9	13873.6	13937.1
45°	19113.8	18796.5	16355.1	13476.2	13689.9	14404.6	14728.6	14792.0	14989.1	14982.4
47.5°	20319.4	20048.9	15045.9	15012.5	15543.5	16037.8	15934.3	15854.1	15904.2	15930.9
50°	21431.6	17453.9	16221.5	16709.1	17517.3	17577.4	17146.6	13583.0	16816.0	16759.2
52.5°	19908.6	17033.1	17316.9	18459.2	19835.2	19137.1	18295.5	11906.4	15770.6	17270.2
55°	17420.5	17707.7	18348.9	20266.0	21625.3	20797.0	19391.0	12260.5	10467.0	8519.9
57.5°	17767.8	18222.0	19441.1	22089.5	23275.2	16472.0	18098.5	8643.4	5851.4	5848.0
60°	16545.4	17233.4	19417.7	22907.8	18839.9	10553.8	7250.7	197.0	1135.5	1125.5
62.5°	13987.1	14965.7	18526.0	22390.1	15607.0	8576.6	6459.2	16.7	6.7	6.7
65°	10817.7	11969.9	15446.6	19387.6	13826.8	7387.7	4796.0	0.0	0.0	0.0
67.5°	7093.8	8162.5	11599.2	16104.6	11478.9	5584.2	3222.9	0.0	0.0	0.0
70°	2955.7	4275.0	7207.3	11639.3	8443.1	3657.1	1529.6	0.0	0.0	0.0
72.5°	855.0	1302.5	3246.3	6950.2	5240.2	1913.7	567.8	0.0	0.0	0.0
75°	564.4	594.5	981.9	2795.4	2548.3	701.4	230.4	0.0	0.0	0.0
77.5°	474.3	487.6	624.5	781.5	818.3	277.2	187.0	0.0	0.0	0.0
80°	437.5	440.9	561.1	581.1	437.5	230.4	183.7	0.0	0.0	0.0
82.5°	407.5	397.4	477.6	460.9	364.0	200.4	170.3	0.0	0.0	0.0
85°	280.5	287.2	324.0	410.8	220.4	100.2	120.2	0.0	0.0	0.0
87.5°	86.8	100.2	126.9	130.3	40.1	13.4	0.0	0.0	0.0	0.0
90°	3.3	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: P579445
 CATALOG NUMBER: CTN-CA10-760-730-U-T5N-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)