

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: P579446

Luminaire Tested: **CTN-CA10-760-730-U-T5N-HSS-HM-EX180**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579446  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-6)  
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-EX180  
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: 70852 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U3 - G5

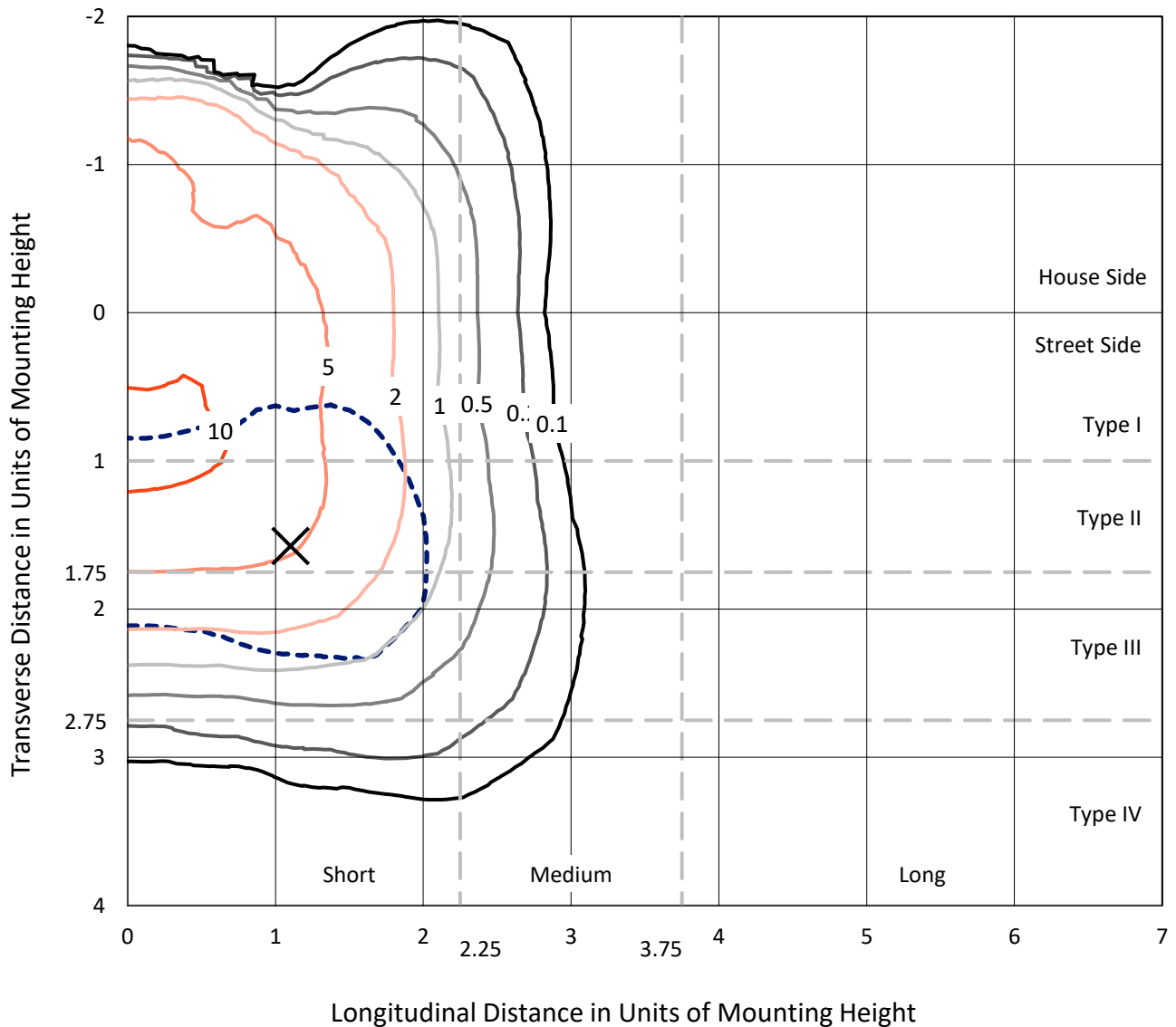
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

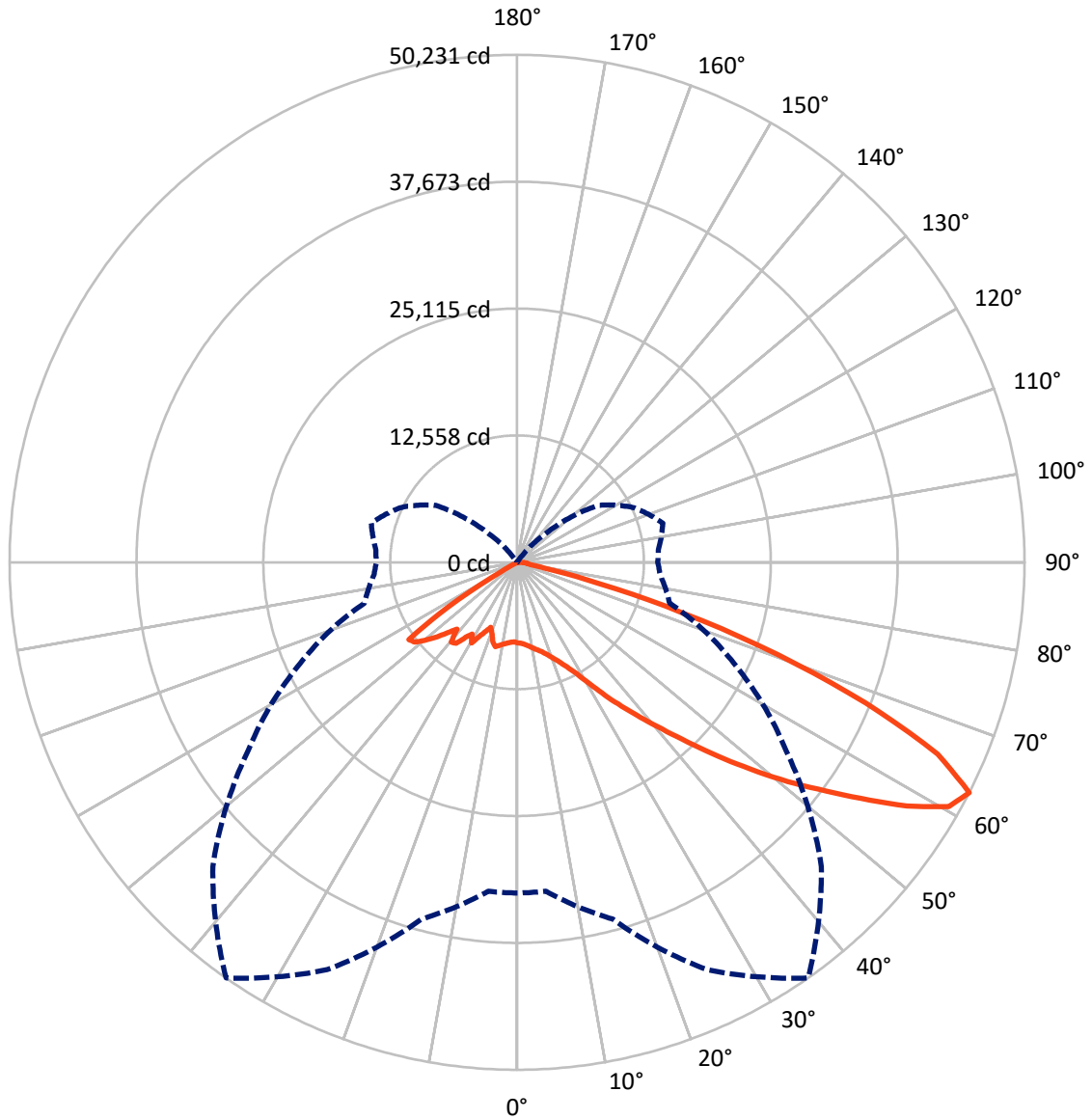
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.1 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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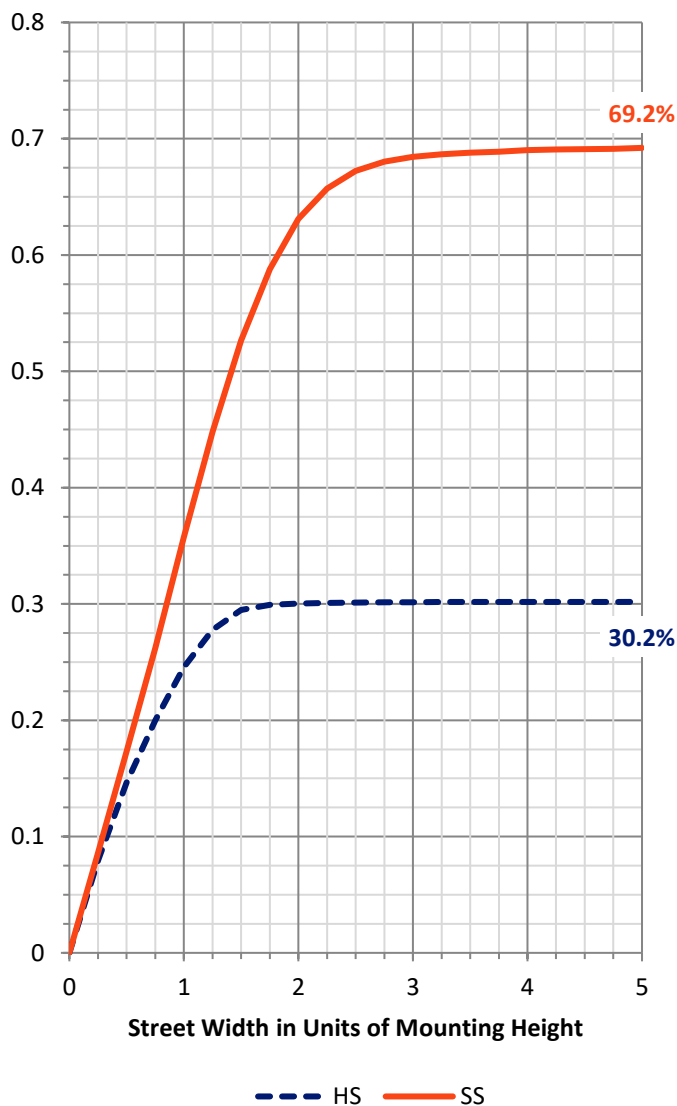
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21503.8	0.1	21503.8
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	49286.7	61.5	49348.2
	% Fixture	69.6	0.1	69.6
<b>Total</b>	Lumens	70790.5	61.5	70852.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	787.2	1.1
10°-20°	2526.6	3.6
20°-30°	4618.0	6.5
30°-40°	8800.3	12.4
40°-50°	15105.0	21.3
50°-60°	20263.7	28.6
60°-70°	15404.4	21.7
70°-80°	2916.8	4.1
80°-90°	368.3	0.5
90°-100°	54.1	0.1
100°-110°	7.3	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°	70790.5	99.9
0°-180°	70852.0	100.0

**Coefficient of Utilization**

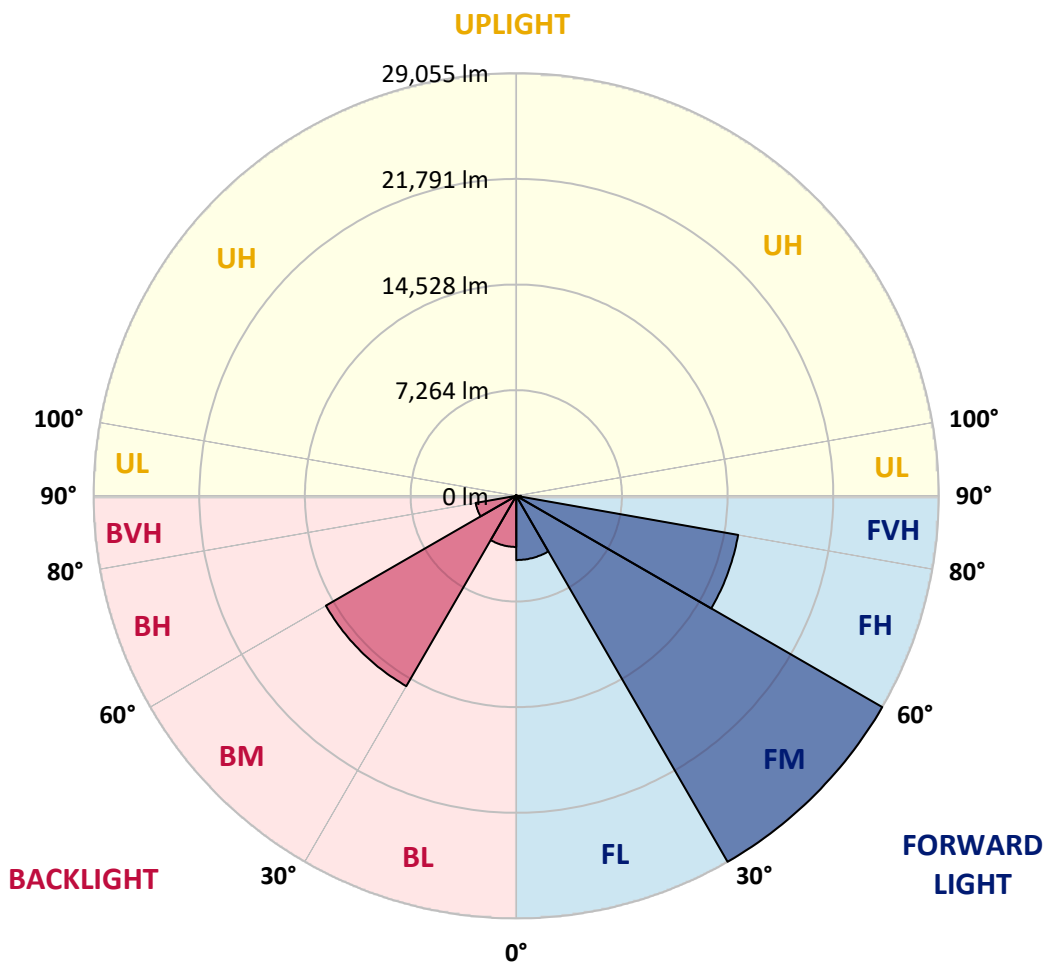


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4416.7	6.2			
FM (30°-60°)	29055.2	41.0			
FH (60°-80°)	15489.5	21.9			G5
FVH (80°-90°)	325.2	0.5			G3/500
BL (0°-30°)	3515.1	5.0	B4/5000		
BM (30°-60°)	15113.8	21.3	B5		
BH (60°-80°)	2831.7	4.0	B4/5000		G4/5000
BVH (80°-90°)	43.1	0.1			G1/100
UL (90°-100°)	54.1	0.1		U3/500	
UH (100°-180°)	7.4	0.0		U1/10	

**BUG Rating: B5-U3-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7978.8	7978.8	7978.8	7978.8	7978.8	7978.8	7978.8	7978.8	7978.8	7978.8	7978.8
2.5°	8175.9	8115.7	8119.1	8172.5	8018.9	8075.7	8008.9	8075.7	8038.9	8065.6	8079.0
5°	8319.5	8259.3	8252.7	8309.4	8179.2	8219.3	8152.5	8199.2	8149.1	8182.5	8182.5
7.5°	8536.6	8476.4	8456.4	8499.8	8379.6	8409.6	8339.5	8366.2	8309.4	8352.9	8329.5
10°	8793.7	8726.9	8703.5	8726.9	8623.4	8640.1	8556.6	8586.6	8503.2	8553.3	8519.9
12.5°	9067.6	8980.7	8980.7	9000.8	8890.6	8893.9	8817.1	8833.8	8750.3	8803.7	8763.7
15°	9364.8	9268.0	9281.3	9301.4	9184.5	9204.5	9124.4	9151.1	9064.2	9117.7	9077.6
17.5°	9758.9	9655.4	9642.0	9702.1	9591.9	9628.7	9538.5	9571.9	9495.1	9511.8	9491.7
20°	10303.3	10173.1	10143.0	10223.2	10099.6	10126.3	10059.5	10126.3	10046.1	9925.9	9588.6
22.5°	10954.6	10841.0	10790.9	10844.4	10697.4	10744.2	10740.8	10847.7	10627.3	9869.1	9531.8
25°	11812.9	11736.1	11639.2	11645.9	11468.9	11539.0	11666.0	11749.4	10811.0	10146.3	10153.0
27.5°	12958.5	12881.6	12748.1	12698.0	12440.8	12611.1	12808.2	11993.3	11255.2	11425.5	11332.0
30°	14421.3	14407.9	14137.4	14050.6	13770.0	13983.8	13813.5	12417.4	12671.2	12908.4	12764.8
32.5°	16368.4	16274.9	15884.1	15727.2	15433.3	15556.8	14053.9	13853.5	14230.9	14551.5	14401.3
35°	18723.0	18439.1	18041.6	17731.0	17220.1	16532.1	14969.0	15359.8	15924.2	16365.1	15637.0
37.5°	21458.3	21151.0	20529.8	19972.1	19167.2	17023.0	16348.4	17129.9	17837.9	17360.3	15680.4
40°	24273.7	23999.9	23415.4	22697.3	21338.0	18546.0	18021.6	18956.8	19761.7	17026.3	16191.4
42.5°	27069.2	26835.4	26364.5	25656.4	23906.4	20359.5	19855.2	20860.4	20102.3	17677.6	17650.9
45°	29888.0	29771.1	29236.7	28632.2	26948.9	22680.6	21909.1	22694.0	19344.2	19237.3	19173.8
47.5°	32172.4	32192.4	32005.4	31691.4	30195.2	25228.9	24223.6	21895.8	20266.0	20382.9	20412.9
50°	34526.9	34376.7	34366.6	34386.7	33762.1	28512.0	25800.0	21535.1	21471.6	21461.6	21434.9
52.5°	36413.9	36223.6	36617.7	36931.6	37302.3	32175.7	25562.9	22757.5	22393.4	22266.5	21488.3
55°	37950.3	37876.8	38518.0	39580.1	41229.9	36056.6	27660.3	23949.8	23221.7	20255.9	18272.1
57.5°	38882.1	38988.9	40311.5	42398.9	45488.2	39272.8	30101.7	25158.8	19881.9	17841.3	17714.3
60°	37098.6	37663.0	39914.1	44496.3	49088.5	42298.7	31918.6	25402.6	17891.4	16799.2	16545.4
62.5°	32733.5	32680.0	36547.5	44496.3	50230.7	42599.3	32493.0	23675.9	15630.3	14207.5	13923.7
65°	23168.3	23308.5	27439.9	40097.7	45758.7	39623.5	29971.4	20129.0	12467.5	11161.6	10777.6
67.5°	14337.8	14327.8	18372.3	29530.6	37248.9	33174.3	25232.3	15429.9	8653.4	7421.1	7003.6
70°	4952.9	5093.2	8262.7	17280.2	27419.8	25990.4	18883.3	9742.2	4562.2	3253.0	2745.3
72.5°	1970.5	2017.2	2965.8	7704.9	17129.9	17363.7	11475.6	4732.5	1366.0	868.4	814.9
75°	1289.2	1295.8	1422.8	2782.1	8312.8	9341.4	5330.3	1359.3	634.6	581.1	567.8
77.5°	1112.2	1115.5	1182.3	1409.4	2708.6	3633.7	1516.3	804.9	531.0	477.6	464.2
80°	1032.0	1035.3	1068.7	1212.4	1305.9	1239.1	808.2	647.9	447.5	424.2	420.8
82.5°	975.2	988.6	1005.3	1092.1	1055.4	931.8	671.3	524.4	344.0	367.4	377.4
85°	898.4	911.8	921.8	971.9	881.7	681.3	521.0	394.1	220.4	240.5	237.1
87.5°	674.6	681.3	668.0	661.3	614.5	477.6	344.0	250.5	86.8	80.2	73.5
90°	324.0	320.6	307.3	283.9	247.1	193.7	143.6	80.2	36.7	16.7	6.7
92.5°	257.2	253.8	247.1	223.8	193.7	143.6	103.5	56.8	33.4	13.4	3.3
95°	173.7	167.0	160.3	143.6	120.2	86.8	60.1	40.1	26.7	10.0	3.3
97.5°	113.6	110.2	100.2	86.8	66.8	46.8	36.7	30.1	23.4	10.0	3.3
100°	70.1	70.1	63.5	50.1	33.4	26.7	23.4	23.4	16.7	6.7	0.0
102.5°	43.4	40.1	36.7	23.4	16.7	16.7	16.7	16.7	13.4	6.7	0.0
105°	23.4	23.4	16.7	13.4	10.0	6.7	10.0	13.4	10.0	3.3	0.0
107.5°	6.7	6.7	6.7	3.3	3.3	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	6.7	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°	7978.8	7978.8	7978.8	7978.8	7978.8	7978.8	7978.8	7978.8	7978.8	7978.8
2.5°	8062.3	7998.8	8015.5	7952.1	7942.1	7875.3	7988.8	7995.5	7965.4	7998.8
5°	8165.8	8089.0	8119.1	8042.3	8028.9	7942.1	8032.2	8022.2	7998.8	8025.6
7.5°	8312.8	8236.0	8252.7	8162.5	8145.8	8048.9	8135.8	8102.4	8072.3	8109.1
10°	8516.5	8429.7	8443.0	8336.2	8322.8	8209.3	8309.4	8259.3	8215.9	8266.0
12.5°	8767.0	8653.4	8640.1	8526.5	8516.5	8409.6	8513.2	8463.1	8419.7	8499.8
15°	9054.2	8903.9	8883.9	8740.3	8723.6	8613.4	8713.6	8640.1	8606.7	8710.2
17.5°	9438.3	8907.3	8610.0	8399.6	8279.4	8219.3	8399.6	8643.4	8570.0	8573.3
20°	9281.3	8710.2	8312.8	8132.4	8002.2	7421.1	6619.5	6849.9	7317.5	7548.0
22.5°	9234.6	9034.2	8870.5	8566.6	7274.1	6946.8	6993.6	6940.1	6058.4	5721.1
25°	10129.6	9899.2	9545.2	7952.1	7578.0	7504.6	7531.3	6609.5	5944.9	6041.7
27.5°	11275.2	11038.1	9291.3	8399.6	8326.1	8229.3	7701.6	6549.4	6639.5	6733.1
30°	12718.0	11472.2	9688.8	9414.9	9278.0	9177.8	7220.7	7314.2	7464.5	7581.4
32.5°	14124.1	11435.5	10827.7	10487.0	10316.7	8372.9	8159.2	8376.2	8529.9	8620.0
35°	14140.8	12744.7	12103.5	11666.0	10583.9	9000.8	9197.8	9561.9	9939.3	10009.4
37.5°	14524.8	14227.6	13492.8	12941.8	7871.9	10046.1	10480.3	10897.8	11275.2	11298.6
40°	16054.5	15733.8	15045.8	13833.5	8693.5	10246.5	11893.1	12364.0	12681.3	12664.6
42.5°	17580.8	17360.3	16645.6	12293.8	9795.7	8877.2	13375.9	13686.5	13886.9	14027.2
45°	19117.1	18896.6	16482.0	13499.5	11108.2	9722.2	13015.2	14775.3	14995.7	15065.9
47.5°	20316.1	19771.7	15102.6	15099.3	12748.1	10804.3	10747.5	15757.2	15950.9	15900.8
50°	21424.9	17650.9	16325.0	15623.6	14444.7	11822.9	11428.8	13259.0	16815.9	16742.5
52.5°	19494.5	17129.9	17373.7	14210.9	15807.3	12834.9	12197.0	11889.7	15279.6	17246.8
55°	17433.8	17767.8	18445.8	15613.6	11468.9	13162.2	12848.2	12237.1	10310.0	8676.8
57.5°	17791.2	18288.8	18322.2	16912.8	11869.7	8222.6	10530.4	9217.9	5824.6	5838.0
60°	16598.9	17246.8	13392.6	11275.2	6382.4	1713.3	167.0	147.0	1015.3	1235.7
62.5°	14033.9	14935.6	12784.8	9822.4	4094.6	63.5	16.7	3.3	0.0	0.0
65°	10867.7	11953.2	10804.3	8476.4	3633.7	20.0	0.0	0.0	0.0	0.0
67.5°	7167.2	8145.8	8209.3	7090.4	3029.2	10.0	0.0	0.0	0.0	0.0
70°	3002.5	4228.2	5109.9	5270.2	2381.3	3.3	0.0	0.0	0.0	0.0
72.5°	868.4	1342.6	2458.1	3166.1	1512.9	0.0	0.0	0.0	0.0	0.0
75°	577.8	617.9	711.4	1426.1	754.8	0.0	0.0	0.0	0.0	0.0
77.5°	477.6	487.6	407.5	390.8	217.1	0.0	0.0	0.0	0.0	0.0
80°	434.2	427.5	327.3	230.4	80.2	0.0	0.0	0.0	0.0	0.0
82.5°	400.8	380.7	237.1	120.2	53.4	0.0	0.0	0.0	0.0	0.0
85°	270.5	267.2	106.9	73.5	10.0	0.0	0.0	0.0	0.0	0.0
87.5°	73.5	93.5	23.4	10.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	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
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: P579446  
 CATALOG NUMBER: CTN-CA10-760-730-U-T5N-HSS-HM-EX180

**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)