

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: P522163

Luminaire Tested: **CTN-CA10-760-722-U-T5R-HSS-HM-EX180**

Issue Date: 5/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522163  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-894-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 5/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: CTN-CA10-760-722-U-T5R-HSS-HM-EX180  
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: 57422 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U2 - G5

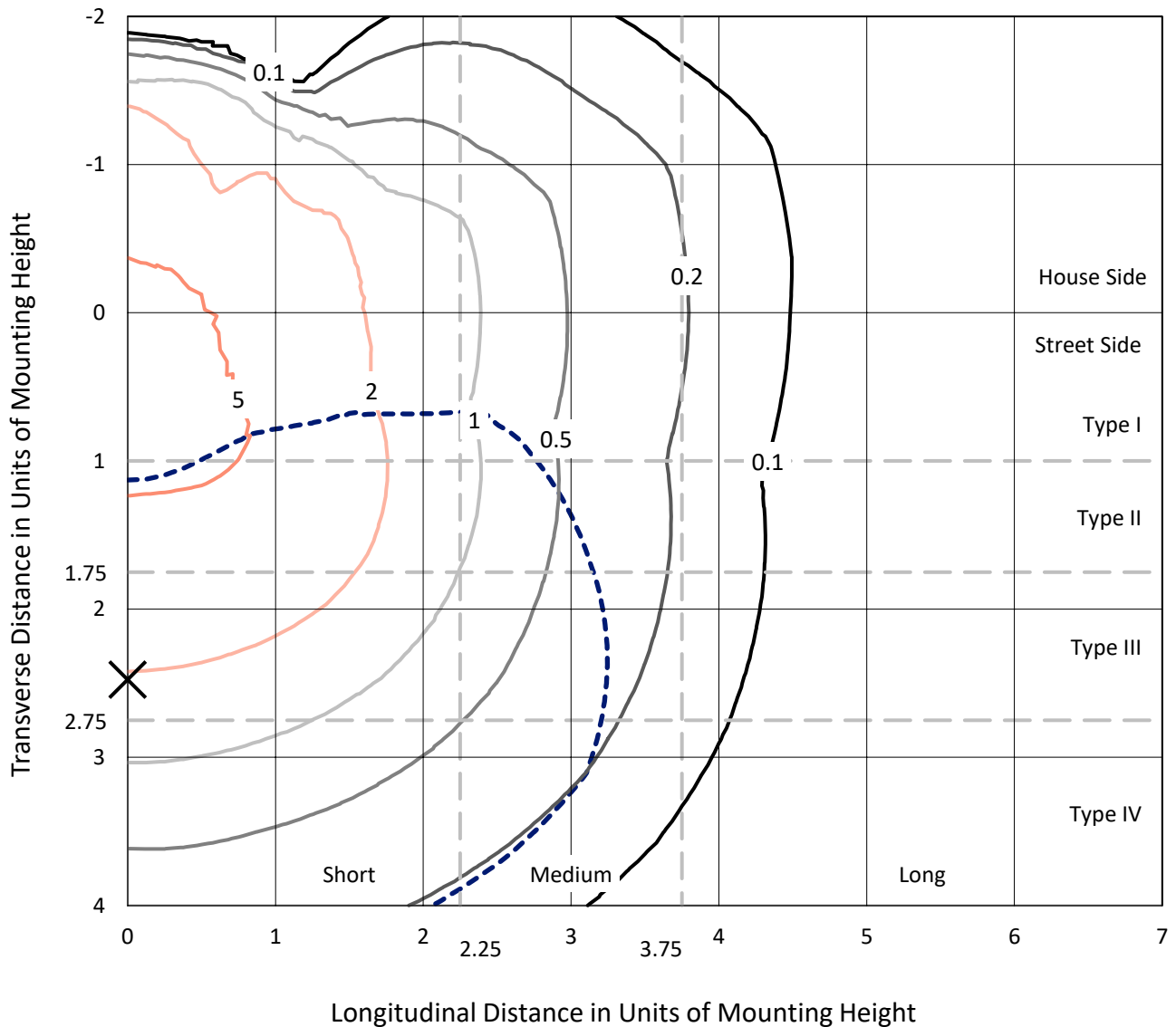
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

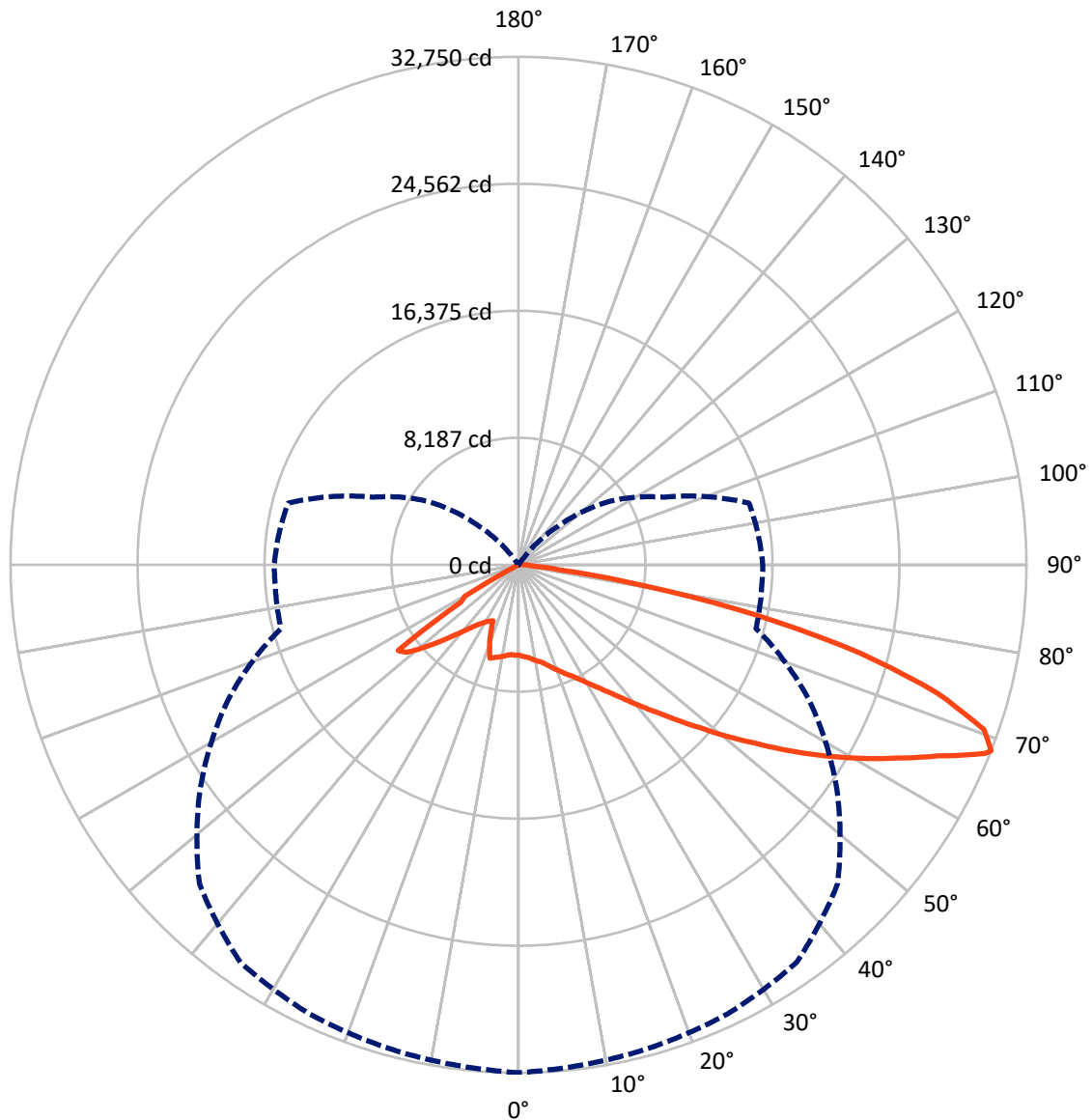
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical



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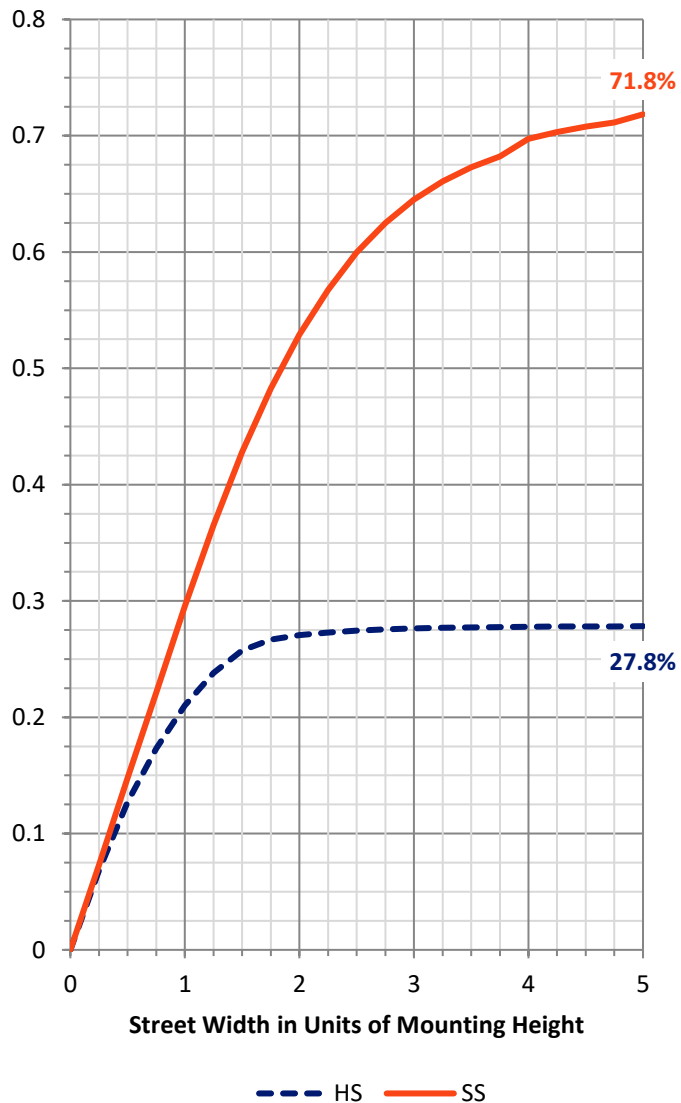
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16038.0	0.4	16038.4
	% Fixture	27.9	0.0	27.9
<b>Street Side</b>	Lumens	41350.7	32.9	41383.6
	% Fixture	72.0	0.1	72.1
<b>Total</b>	Lumens	57388.8	33.2	57422.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	564.6	1.0
10°-20°	1789.1	3.1
20°-30°	3029.0	5.3
30°-40°	4798.6	8.4
40°-50°	7845.3	13.7
50°-60°	12017.1	20.9
60°-70°	14775.9	25.7
70°-80°	11417.2	19.9
80°-90°	1152.0	2.0
90°-100°	32.7	0.1
100°-110°	0.5	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°	57388.8	99.9
0°-180°	57422.0	100.0

**Coefficient of Utilization**

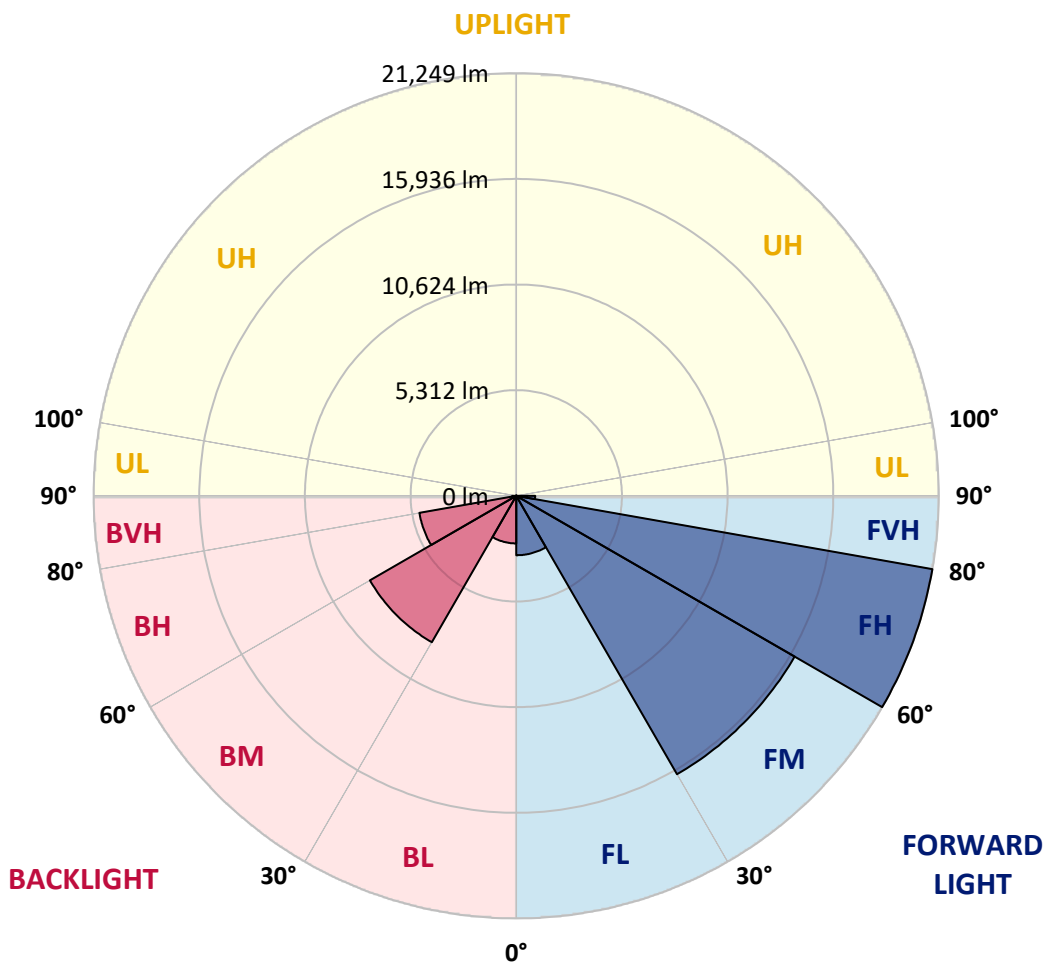


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2988.9	5.2			
FM (30°-60°)	16163.3	28.1			
FH (60°-80°)	21248.5	37.0			G5
FVH (80°-90°)	950.0	1.7			G5
BL (0°-30°)	2393.8	4.2	B3/2500		
BM (30°-60°)	8497.7	14.8	B4/8500		
BH (60°-80°)	4944.6	8.6	B4/5000		G4/5000
BVH (80°-90°)	202.0	0.4			G2/225
UL (90°-100°)	32.7	0.1		U2/50	
UH (100°-180°)	0.5	0.0		U1/10	

**BUG Rating: B4-U2-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5
2.5°	5922.6	5911.5	5900.4	5925.3	5828.5	5870.0	5836.8	5867.3	5845.1	5870.0	5861.7
5°	6000.0	5989.0	5955.8	5983.4	5919.8	5936.4	5894.9	5906.0	5831.3	5875.6	5872.8
7.5°	6127.3	6096.9	6074.7	6074.7	6019.4	6016.6	5950.2	5953.0	5894.9	5889.4	5900.4
10°	6298.8	6276.7	6215.8	6221.3	6143.9	6132.8	6049.8	6047.1	6000.0	5972.4	5997.3
12.5°	6426.0	6448.2	6392.8	6392.8	6315.4	6260.1	6202.0	6163.2	6127.3	6085.8	6066.4
15°	6658.4	6680.5	6605.8	6603.1	6572.7	6506.3	6442.6	6359.6	6296.0	6276.7	6246.2
17.5°	6959.9	6946.1	6882.5	6885.2	6890.8	6782.9	6719.3	6611.4	6520.1	6453.7	6437.1
20°	7267.0	7267.0	7197.8	7220.0	7192.3	7092.7	7051.2	6901.8	6774.6	6702.7	6644.6
22.5°	7610.0	7596.2	7549.1	7596.2	7540.8	7441.3	7372.1	7222.7	7059.5	6652.9	6486.9
25°	7936.4	7928.1	7947.5	7961.3	7892.2	7767.7	7720.7	7563.0	7109.3	6575.4	6240.7
27.5°	8348.6	8320.9	8365.2	8392.9	8323.7	8215.8	8116.2	7939.2	6979.3	6558.8	6522.9
30°	8877.0	8816.1	8879.7	8893.6	8821.6	8755.2	8605.9	7720.7	7023.6	6901.8	6890.8
32.5°	9441.3	9369.3	9452.3	9463.4	9369.3	9314.0	8937.8	7607.2	7457.9	7316.8	7330.6
35°	10110.7	10110.7	10152.2	10157.7	10088.6	9994.5	8561.6	8160.5	8027.7	7897.7	7894.9
37.5°	10926.8	10901.9	11012.5	11078.9	11004.2	10735.9	9109.3	8921.2	8716.5	8550.5	8207.5
40°	11911.5	11955.8	11986.2	12052.6	11980.7	11377.7	9908.8	9695.8	9535.3	8979.3	8113.5
42.5°	12973.8	12984.9	13051.3	13134.2	13134.2	12498.0	10843.8	10661.2	10453.7	8780.1	8390.1
45°	14243.5	14218.6	14345.9	14478.6	14442.7	13784.3	11930.9	11795.4	10824.4	9358.3	9361.0
47.5°	15684.7	15654.3	15836.9	16011.2	15831.3	15211.7	13125.9	13020.8	10448.2	10337.5	10315.4
50°	17350.0	17275.3	17485.6	17717.9	17571.3	16805.1	14578.2	12558.9	11496.6	11408.1	11394.3
52.5°	19128.7	19070.6	19197.9	19593.5	19399.8	18473.1	15953.1	12957.2	12711.0	12611.4	12586.5
55°	21137.1	21023.6	21297.5	21599.0	21374.9	20318.2	17308.5	14279.5	14025.0	13853.5	13604.5
57.5°	23247.7	23084.5	23225.6	23604.6	23388.8	22207.6	19056.8	15640.5	15339.0	12694.4	11684.7
60°	25350.1	25275.4	25330.7	25665.4	25399.9	24044.4	20694.4	17004.2	12982.1	12556.1	12605.9
62.5°	27463.5	27300.3	27350.1	27693.1	27352.9	25792.7	22246.3	18243.5	13662.6	13513.2	13565.8
65°	29729.1	29535.4	29579.7	29679.3	29258.8	27361.2	23618.4	19413.7	14686.1	14528.4	14586.5
67.5°	32459.4	32282.3	32041.7	31745.7	31164.8	29026.4	24982.2	20644.7	15836.9	15748.4	15767.7
68°	32749.8	32578.3	32287.9	31936.6	31283.7	29095.6	25040.3	20680.6	15853.5	15742.8	15748.4
70°	31845.3	31947.6	31618.4	31029.2	30484.3	28083.1	24091.4	19883.9	15148.1	14984.9	14943.4
72.5°	28202.1	28426.2	27972.5	27872.9	27203.5	25018.1	21081.7	17253.2	13175.7	13228.3	13078.9
75°	22769.1	23098.3	22547.8	22578.3	22196.5	20868.7	17668.2	14365.2	10818.9	11059.5	11103.8
77.5°	15834.1	16307.1	16066.5	16307.1	16119.0	15640.5	13673.7	11062.3	8254.5	8531.2	8639.1
80°	8257.3	8818.9	9137.0	9236.6	9297.4	9278.1	8326.5	6639.0	4771.8	4874.2	4868.6
82.5°	2611.4	2475.8	2556.0	2533.9	2464.7	2492.4	2246.2	1756.6	1217.2	1341.6	1283.5
85°	788.4	793.9	771.8	766.3	708.2	622.4	509.0	293.2	143.8	168.7	157.7
87.5°	580.9	586.4	542.2	514.5	481.3	417.7	323.7	182.6	69.2	66.4	52.6
90°	320.9	309.8	287.7	265.6	251.7	215.8	163.2	69.2	24.9	19.4	16.6
92.5°	174.3	166.0	154.9	146.6	127.2	102.4	66.4	22.1	11.1	2.8	0.0
95°	80.2	74.7	71.9	63.6	55.3	38.7	22.1	13.8	8.3	2.8	0.0
97.5°	36.0	33.2	30.4	24.9	19.4	11.1	11.1	8.3	5.5	2.8	0.0
100°	8.3	8.3	5.5	5.5	5.5	5.5	5.5	5.5	5.5	2.8	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5
2.5°	5853.4	5836.8	5828.5	5776.0	5792.6	5745.5	5836.8	5814.7	5800.9	5839.6
5°	5859.0	5800.9	5836.8	5806.4	5817.5	5751.1	5823.0	5792.6	5789.8	5806.4
7.5°	5872.8	5834.1	5870.0	5809.2	5836.8	5809.2	5861.7	5831.3	5856.2	5872.8
10°	5947.5	5925.3	5908.7	5894.9	5914.3	5859.0	5925.3	5928.1	5936.4	5986.2
12.5°	6052.6	6030.5	6002.8	5966.8	5986.2	5964.1	6013.9	6027.7	6058.1	6083.0
15°	6199.2	6157.7	6146.6	6113.5	6132.8	6121.8	6132.8	6124.5	6182.6	6174.3
17.5°	6401.1	6354.1	6196.4	6036.0	5933.6	5964.1	6091.3	6257.3	6298.8	6304.3
20°	6475.8	6143.9	6127.3	5944.7	5861.7	5856.2	5593.4	5200.6	5319.5	5598.9
22.5°	6387.3	5933.6	5886.6	5850.7	5496.6	4915.7	4860.3	4802.2	4788.4	4829.9
25°	6188.1	6135.6	6094.1	5623.8	5065.0	5067.8	4987.6	4605.8	4011.1	3961.3
27.5°	6492.4	6420.5	6019.4	5294.6	5283.6	5278.0	5159.1	4179.8	4052.6	4083.0
30°	6838.2	6719.3	5670.8	5576.8	5574.0	5524.2	4625.2	4215.8	4215.8	4221.3
32.5°	7236.6	6498.0	5870.0	5914.3	5911.5	5676.4	4467.5	4439.9	4428.8	4456.5
35°	7540.8	6320.9	6298.8	6379.0	6323.7	4816.1	4746.9	4722.0	4711.0	4697.1
37.5°	7446.8	6829.9	6829.9	6879.7	6434.3	5128.7	5095.5	5095.5	5073.3	5062.3
40°	7590.6	7463.4	7399.8	7419.1	4675.0	5507.6	5532.5	5527.0	5524.2	5543.6
42.5°	8348.6	8235.2	8177.1	7491.1	5233.8	5474.4	6083.0	6080.3	6088.6	6080.3
45°	9314.0	9208.9	9056.8	7009.7	5941.9	4799.5	6705.4	6735.9	6738.6	6735.9
47.5°	10326.5	10260.1	8702.7	7759.4	6711.0	5150.8	6409.4	7485.5	7471.7	7488.3
50°	11397.0	11098.3	8658.4	8647.4	7529.8	5731.7	5734.5	8141.1	8282.2	8326.5
52.5°	12589.3	10060.9	9596.2	8755.2	8359.7	6329.2	6268.4	7214.4	9139.7	9184.0
55°	11693.0	10628.0	10619.7	7792.6	8697.1	6904.6	6912.9	6846.5	8381.8	9527.0
57.5°	11634.9	11659.8	11640.5	8694.4	6345.8	6473.1	7532.5	7474.5	5427.4	4398.4
60°	12639.1	12675.0	11308.5	9388.7	6860.3	3980.7	4639.0	3941.9	3994.5	4036.0
62.5°	13599.0	13610.0	9197.8	6154.9	3399.7	160.4	77.5	63.6	60.9	60.9
65°	14661.2	14661.2	9859.0	6713.7	3283.6	60.9	11.1	8.3	30.4	30.4
67.5°	15687.5	15460.7	10343.1	7128.7	3341.7	8.3	0.0	0.0	0.0	0.0
68°	15629.4	15380.4	10298.8	7117.6	3333.4	5.5	0.0	0.0	0.0	0.0
70°	14760.8	14520.1	9770.5	6794.0	3208.9	5.5	0.0	0.0	0.0	0.0
72.5°	13029.1	12807.8	8652.9	5989.0	2893.5	2.8	0.0	0.0	0.0	0.0
75°	11029.1	10998.7	7474.5	5054.0	2481.3	2.8	0.0	0.0	0.0	0.0
77.5°	8874.2	8735.9	5842.4	3961.3	2000.0	0.0	0.0	0.0	0.0	0.0
80°	4943.3	5148.0	3419.1	2329.2	1258.7	0.0	0.0	0.0	0.0	0.0
82.5°	1336.1	1250.4	746.9	506.2	240.7	0.0	0.0	0.0	0.0	0.0
85°	171.5	188.1	85.8	69.2	16.6	0.0	0.0	0.0	0.0	0.0
87.5°	88.5	105.1	27.7	22.1	5.5	0.0	0.0	0.0	0.0	0.0
90°	16.6	19.4	8.3	2.8	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



REPORT NUMBER: P522163  
 CATALOG NUMBER: CTN-CA10-760-722-U-T5R-HSS-HM-EX180

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)