

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: STREETWORKS

Report Number: P579588

Luminaire Tested: **CST-CA10-760-760-U-T5-HSS-HM-EX90**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579588  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/18/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA10-760-760-U-T5-HSS-HM-EX90  
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD  
Light Source: (10) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 85724 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B5 - U3 - G5

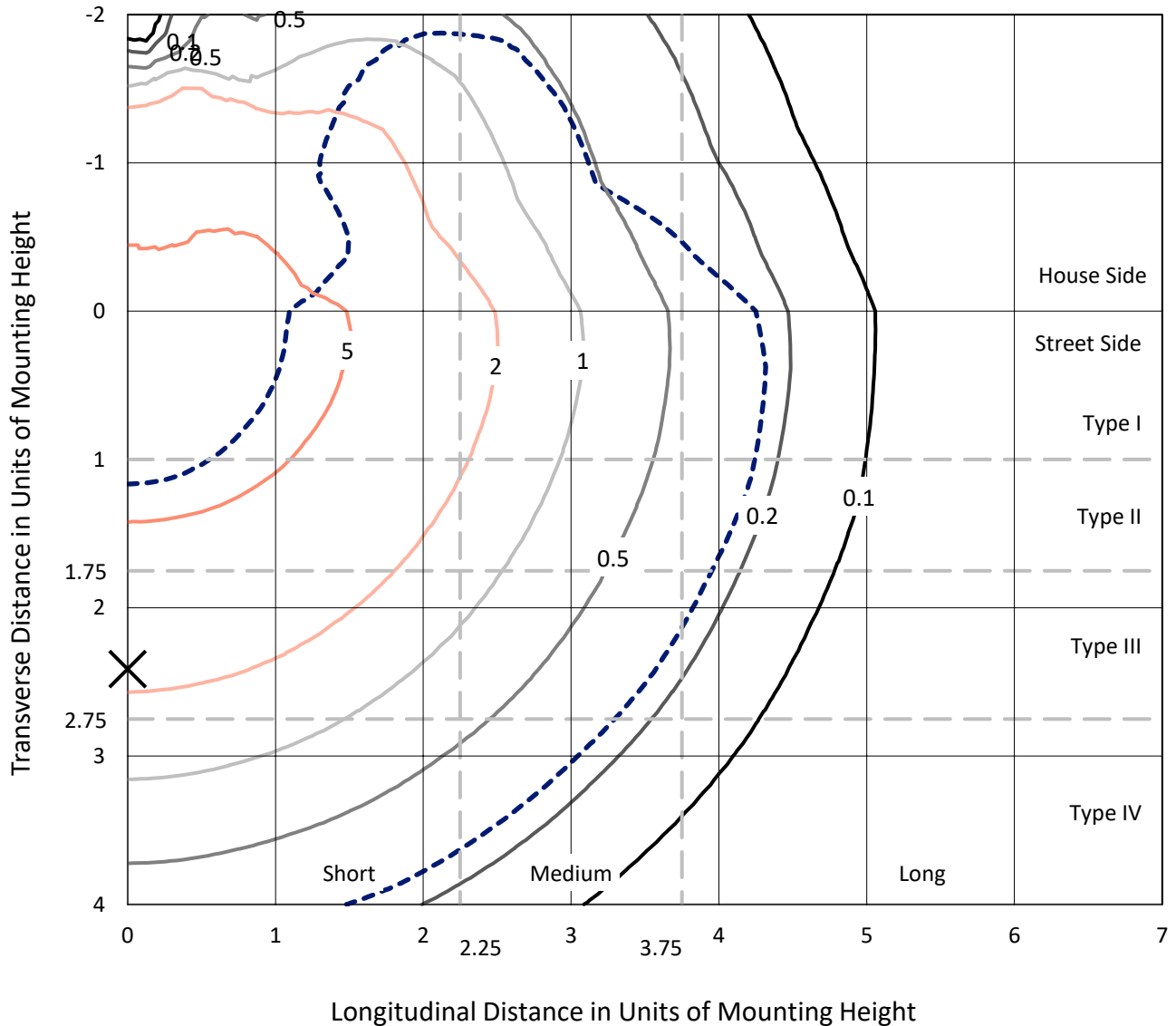
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

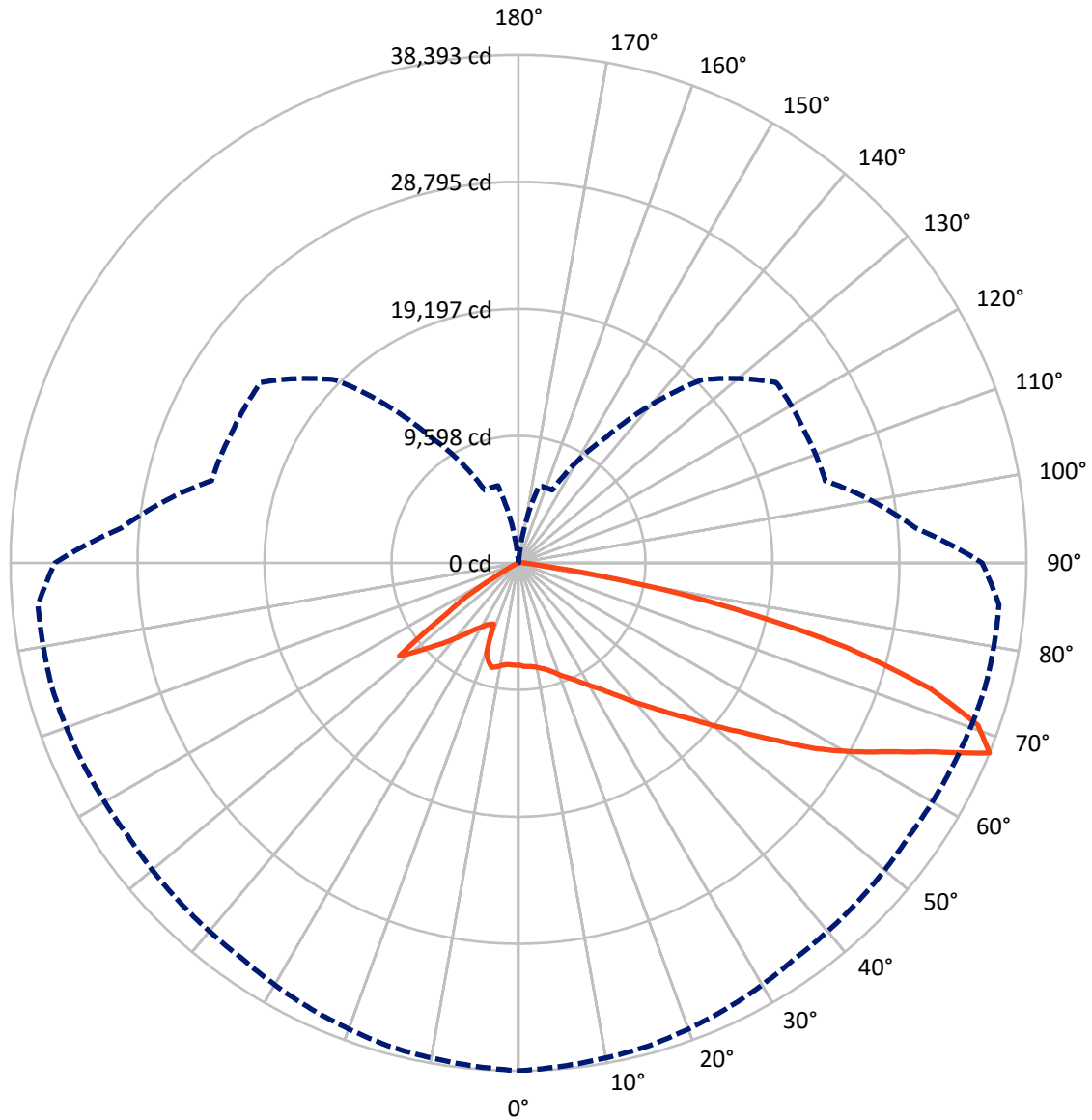
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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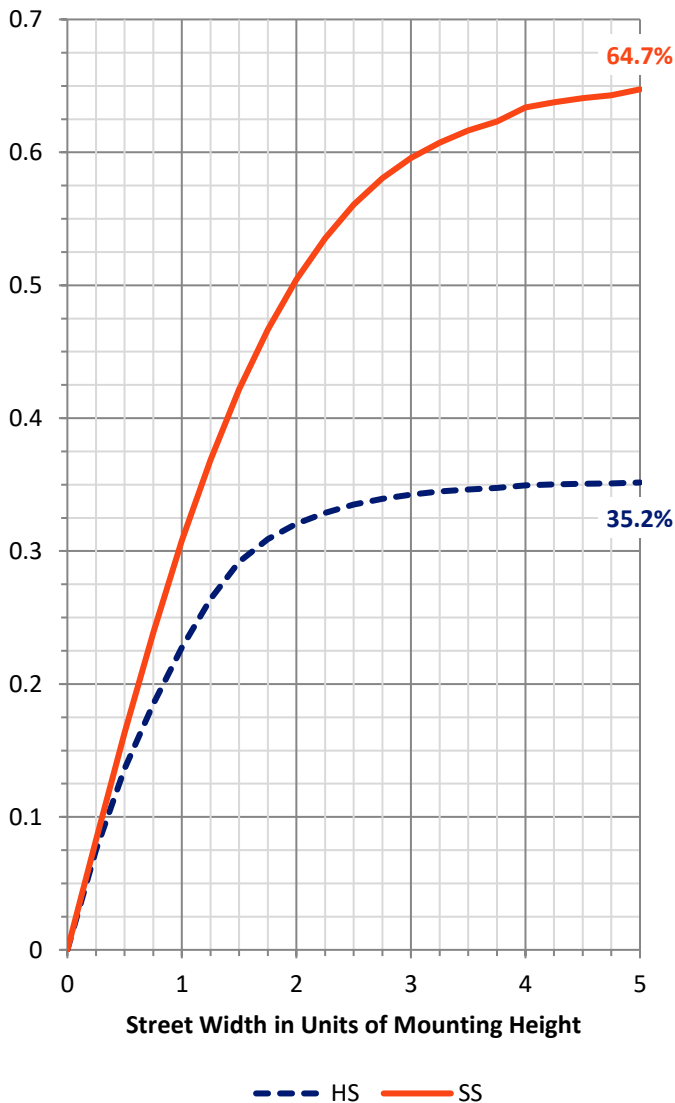
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	30174.7	1.8	30176.5
	% Fixture	35.2	0.0	35.2
<b>Street Side</b>	Lumens	55487.0	60.5	55547.5
	% Fixture	64.7	0.1	64.8
<b>Total</b>	Lumens	85661.7	62.3	85724.0
	% Fixture	99.9	0.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	743.2	0.9
10°-20°	2308.7	2.7
20°-30°	4002.8	4.7
30°-40°	6568.0	7.7
40°-50°	10955.5	12.8
50°-60°	17730.1	20.7
60°-70°	24473.2	28.5
70°-80°	17656.4	20.6
80°-90°	1223.8	1.4
90°-100°	53.1	0.1
100°-110°	8.9	0.0
110°-120°	0.3	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°	85661.7	99.9
0°-180°	85724.0	100.0



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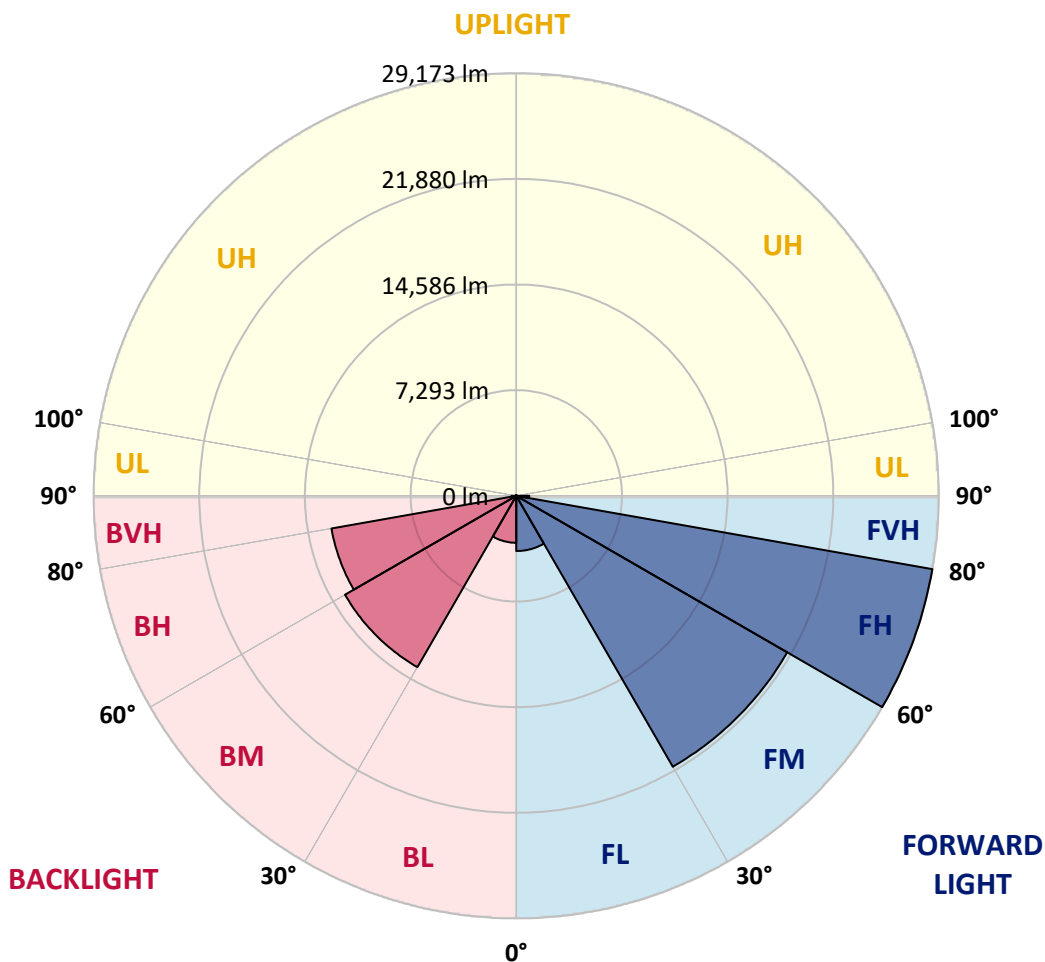
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3812.0	4.4			
FM (30°-60°)	21600.3	25.2			
FH (60°-80°)	29173.0	34.0			G5
FVH (80°-90°)	901.7	1.1			G5
BL (0°-30°)	3242.7	3.8	B4/5000		
BM (30°-60°)	13653.3	15.9	B5		
BH (60°-80°)	12956.6	15.1	B5		G5
BVH (80°-90°)	322.1	0.4			G3/500
UL (90°-100°)	53.1	0.1		U3/500	
UH (100°-180°)	9.2	0.0		U1/10	

**BUG Rating: B5-U3-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7725.2	7725.2	7725.2	7725.2	7725.2	7725.2	7725.2	7725.2	7725.2	7725.2	7725.2
2.5°	7843.4	7797.4	7800.7	7846.7	7721.9	7767.9	7715.4	7761.3	7738.4	7754.8	7774.5
5°	7866.3	7810.6	7817.1	7872.9	7774.5	7810.6	7748.2	7774.5	7754.8	7774.5	7777.7
7.5°	7925.4	7869.6	7872.9	7915.6	7813.8	7840.1	7781.0	7794.1	7761.3	7797.4	7787.6
10°	8050.1	7997.6	7977.9	8014.0	7925.4	7928.7	7859.8	7872.9	7823.7	7872.9	7853.2
12.5°	8217.5	8145.3	8151.9	8171.5	8063.3	8069.8	7987.8	8007.5	7925.4	7994.3	7971.4
15°	8421.0	8332.4	8342.2	8375.0	8270.0	8260.2	8184.7	8184.7	8112.5	8165.0	8142.0
17.5°	8703.2	8604.7	8598.2	8621.1	8535.8	8535.8	8450.5	8440.7	8368.5	8411.1	8404.6
20°	9070.7	8959.2	8939.5	8982.1	8873.8	8887.0	8778.7	8768.8	8690.1	8716.3	8719.6
22.5°	9402.2	9313.6	9310.3	9376.0	9248.0	9264.4	9165.9	9139.7	9074.0	9110.1	9120.0
25°	9782.9	9769.8	9759.9	9782.9	9654.9	9654.9	9586.0	9563.0	9520.3	9546.6	9572.9
27.5°	10262.0	10255.5	10229.2	10232.5	10124.2	10140.6	10065.1	10052.0	10032.3	10029.0	10015.9
30°	10790.4	10760.8	10724.7	10747.7	10698.5	10714.9	10649.3	10606.6	10600.0	10603.3	10583.6
32.5°	11377.8	11338.4	11315.5	11354.8	11374.5	11420.5	11417.2	11299.1	11299.1	11348.3	11259.7
35°	12106.4	12044.0	12063.7	12116.2	12155.6	12273.7	12254.0	12172.0	12198.3	12221.2	12116.2
37.5°	12962.9	12920.2	13008.8	13107.3	13110.6	13277.9	13238.6	13258.3	13255.0	13225.4	13156.5
40°	13990.1	13921.2	14013.1	14088.5	14042.6	14242.8	14236.2	14324.8	14383.9	14485.6	14446.2
42.5°	15010.7	14958.2	15046.8	15210.9	15184.6	15414.4	15447.2	15585.0	15667.1	15824.6	15732.7
45°	16267.6	16238.1	16320.1	16448.1	16536.7	16841.9	16963.3	17022.4	17229.2	17419.5	17206.2
47.5°	17675.5	17714.9	17701.7	17934.7	18131.7	18502.5	18551.7	18742.1	18922.6	19132.6	18925.8
50°	19427.9	19362.3	19421.4	19644.5	19966.1	20235.3	20487.9	20760.3	20937.5	21154.1	20773.5
52.5°	21314.9	21370.7	21502.0	21846.6	22082.9	22401.2	22630.9	22955.8	23129.8	23316.8	22821.3
55°	23694.2	23740.2	23884.6	24239.0	24406.4	24767.3	24924.9	25249.8	25417.1	25499.2	24865.8
57.5°	26483.7	26329.5	26447.6	26631.4	26890.6	27281.2	27323.8	27629.0	27629.0	27734.0	26926.7
60°	28974.5	28869.5	28994.2	29256.8	29358.5	29712.9	29676.8	29926.2	29991.9	29913.1	28948.3
62.5°	31429.3	31449.0	31609.8	31695.1	31655.7	31865.8	31951.1	32213.6	32105.3	32131.6	31019.1
65°	34409.1	34455.1	34438.6	34281.1	33926.7	34340.2	34317.2	34734.0	34760.3	34996.5	33703.5
67.5°	38393.2	38189.7	37818.8	37185.5	36483.2	36240.3	36027.0	36233.8	36499.6	36456.9	35039.2
70°	36844.2	36512.7	36319.1	35767.8	34829.2	34343.5	33900.4	33936.5	34323.8	34359.9	32909.4
72.5°	32571.3	32404.0	31659.0	31176.6	30533.4	30159.3	29624.3	29745.8	30251.1	30336.5	29181.3
75°	25692.8	25538.6	24865.8	24708.3	24389.9	24573.7	24442.4	24491.7	24898.6	24524.5	23832.0
77.5°	16628.6	16664.7	16559.7	16917.4	16904.3	16914.1	17393.3	17442.5	17839.6	17609.9	16940.4
80°	7456.1	7564.4	7820.4	8338.9	8023.9	8194.5	8378.3	8322.5	8722.9	7817.1	8142.0
82.5°	1509.6	1562.1	1473.5	1539.1	1437.4	1489.9	1565.4	1450.5	1437.4	1332.4	1237.2
85°	777.8	787.6	784.3	767.9	676.0	623.5	600.6	505.4	456.2	446.3	413.5
87.5°	505.4	512.0	495.5	492.3	433.2	397.1	354.4	298.6	249.4	173.9	144.4
90°	308.5	308.5	292.1	275.7	246.1	219.9	177.2	128.0	75.5	29.5	16.4
92.5°	206.8	206.8	200.2	190.3	170.7	147.7	114.9	75.5	36.1	13.1	6.6
95°	131.3	131.3	128.0	124.7	111.6	95.2	72.2	45.9	23.0	9.8	3.3
97.5°	85.3	85.3	85.3	82.0	75.5	65.6	49.2	29.5	16.4	6.6	3.3
100°	52.5	55.8	52.5	52.5	49.2	42.7	32.8	19.7	13.1	6.6	3.3
102.5°	29.5	29.5	32.8	32.8	29.5	26.3	19.7	16.4	9.8	6.6	3.3
105°	13.1	13.1	16.4	16.4	16.4	13.1	13.1	9.8	6.6	6.6	3.3
107.5°	3.3	3.3	3.3	6.6	9.8	9.8	9.8	9.8	6.6	3.3	3.3
110°	0.0	0.0	0.0	3.3	3.3	6.6	6.6	6.6	6.6	3.3	3.3



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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°	7725.2	7725.2	7725.2	7725.2	7725.2	7725.2	7725.2	7725.2	7725.2	7725.2
2.5°	7754.8	7715.4	7744.9	7695.7	7682.6	7639.9	7721.9	7735.1	7728.5	7741.6
5°	7761.3	7712.1	7748.2	7699.0	7695.7	7649.8	7735.1	7738.4	7715.4	7725.2
7.5°	7781.0	7735.1	7761.3	7705.5	7712.1	7656.3	7754.8	7751.5	7738.4	7761.3
10°	7853.2	7800.7	7810.6	7751.5	7767.9	7708.8	7830.2	7836.8	7823.7	7866.3
12.5°	7977.9	7905.7	7928.7	7859.8	7872.9	7813.8	7961.5	7971.4	7971.4	8040.3
15°	8148.6	8073.1	8122.3	8033.7	8037.0	7948.4	8060.0	8060.0	8073.1	8168.3
17.5°	8398.0	8306.1	8371.7	8289.7	7777.7	7584.1	7964.8	8197.8	7810.6	7777.7
20°	8706.5	8663.8	8699.9	8565.4	7735.1	6849.0	6159.8	6123.7	6888.4	7269.1
22.5°	9083.9	9041.2	9057.6	8887.0	6904.8	6281.3	6271.4	6205.8	5250.8	4988.3
25°	9526.9	9503.9	9467.8	8037.0	7137.8	6540.5	6461.8	5605.2	5057.2	5106.4
27.5°	10002.8	9933.8	8716.3	8348.8	7495.5	6799.8	6353.5	5234.4	5214.7	5260.6
30°	10534.4	10170.1	8923.1	8798.4	7912.3	7121.4	5529.7	5464.1	5464.1	5536.3
32.5°	11210.4	9497.4	9497.4	9431.7	8427.5	6251.7	5821.8	5782.4	5828.4	5857.9
35°	11108.7	10216.1	10321.1	10291.6	9126.5	6366.6	6291.1	6225.5	6235.3	6235.3
37.5°	11141.5	11177.6	11302.3	11174.3	7961.5	6865.4	6744.0	6730.9	6740.7	6763.7
40°	12172.0	12191.7	12237.6	11955.4	8555.5	7446.3	7278.9	7246.1	7278.9	7328.1
42.5°	13281.2	13337.0	13389.5	10872.4	9385.8	8105.9	7938.5	7876.2	7935.3	7987.8
45°	14593.9	14679.3	13875.2	11834.0	10324.4	8857.4	8680.2	8604.7	8640.8	8686.8
47.5°	16070.7	16205.3	13084.3	13058.1	11427.0	9746.8	9543.3	9398.9	9454.7	9451.4
50°	17737.8	15486.6	14456.1	14439.7	12657.7	10737.9	10527.8	10396.6	10439.2	10406.4
52.5°	19539.5	15909.9	15942.7	15939.4	13944.1	11804.4	11610.8	11446.7	11108.7	11420.5
55°	21383.9	17373.6	17498.3	17478.6	15292.9	12907.1	12700.4	12546.1	8197.8	6924.5
57.5°	23218.4	18902.9	18942.2	18988.2	16691.0	13970.4	13061.4	11998.1	4676.5	4653.5
60°	25029.9	20360.0	20438.7	20465.0	17445.8	11564.9	5339.4	5437.9	1414.4	1690.1
62.5°	26907.0	21797.4	21869.6	21846.6	18197.3	10754.3	5608.5	5496.9	131.3	121.4
65°	29302.7	23599.0	23497.3	23421.8	19382.0	11476.3	6025.3	5995.8	42.7	29.5
67.5°	30142.8	24009.3	23802.5	23776.3	19552.6	11630.5	6058.1	6035.1	42.7	29.5
70°	28239.4	22450.4	22096.0	22105.8	18194.0	10879.0	5651.2	5618.4	39.4	29.5
72.5°	24731.2	19828.3	19680.6	18899.6	15755.7	9569.6	5011.2	4886.5	39.4	26.3
75°	20304.2	16018.2	15690.0	14813.8	12539.6	7607.1	3934.8	3774.0	36.1	23.0
77.5°	14095.1	11233.4	10606.6	9714.0	8388.1	5044.0	2645.1	2438.3	32.8	23.0
80°	6389.6	4610.9	4633.8	3550.8	2845.3	1709.8	840.1	761.4	29.5	19.7
82.5°	1112.5	820.4	771.2	745.0	620.3	420.1	256.0	219.9	26.3	13.1
85°	387.2	311.8	344.6	406.9	361.0	252.7	157.5	151.0	16.4	6.6
87.5°	131.3	137.8	160.8	193.6	170.7	98.5	59.1	42.7	3.3	0.0
90°	13.1	16.4	16.4	16.4	9.8	0.0	0.0	0.0	0.0	0.0
92.5°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	3.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	3.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	3.3	3.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	3.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	3.3	3.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	3.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	3.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P579588  
 CATALOG NUMBER: CST-CA10-760-760-U-T5-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)