

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: P579542

Luminaire Tested: **CST-CA10-760-750-U-T5N-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579542
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: STREETWORKS
Catalog Number: CST-CA10-760-750-U-T5N-HSS-HM-EX180
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 73482 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U3 - G5

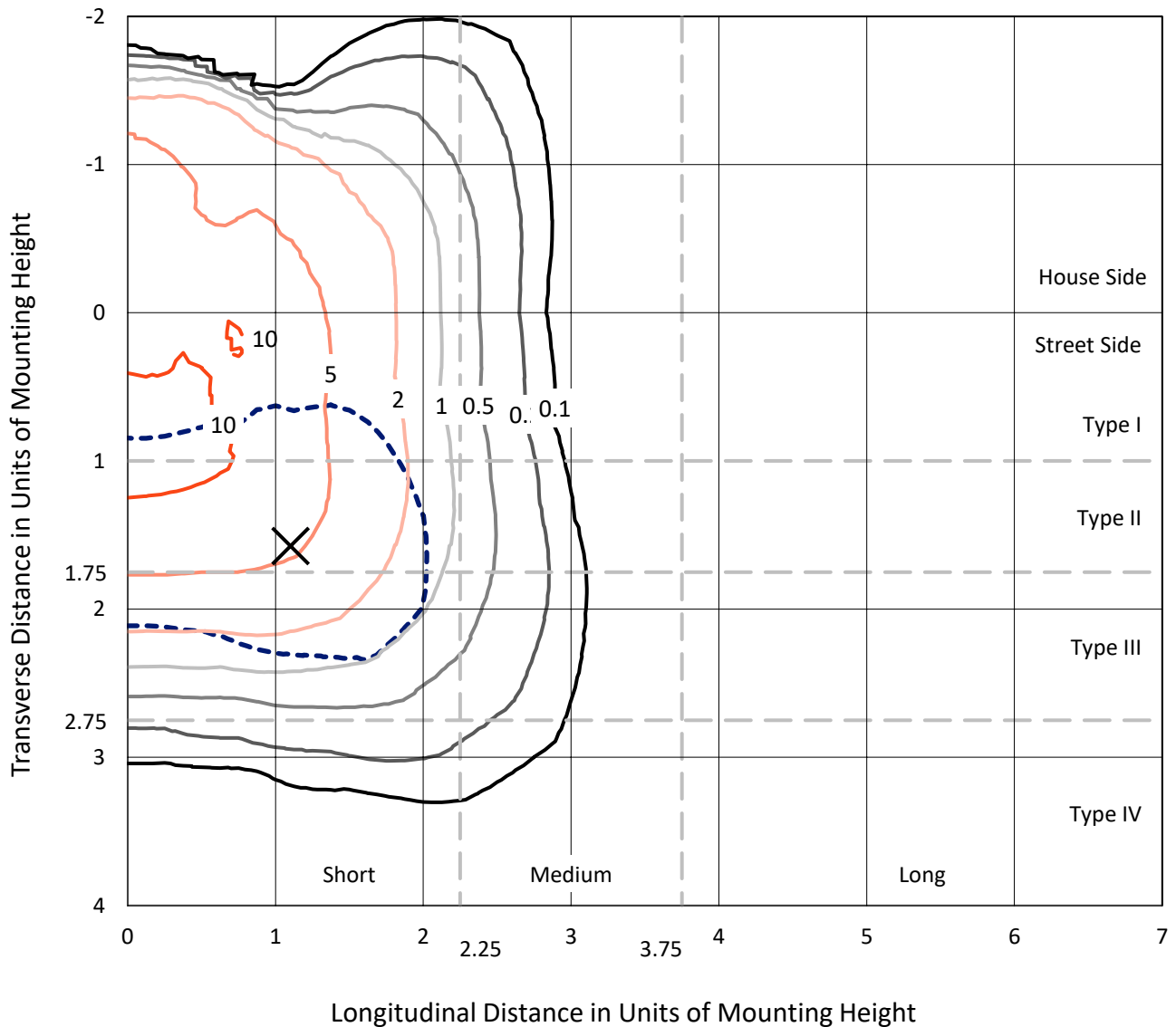
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

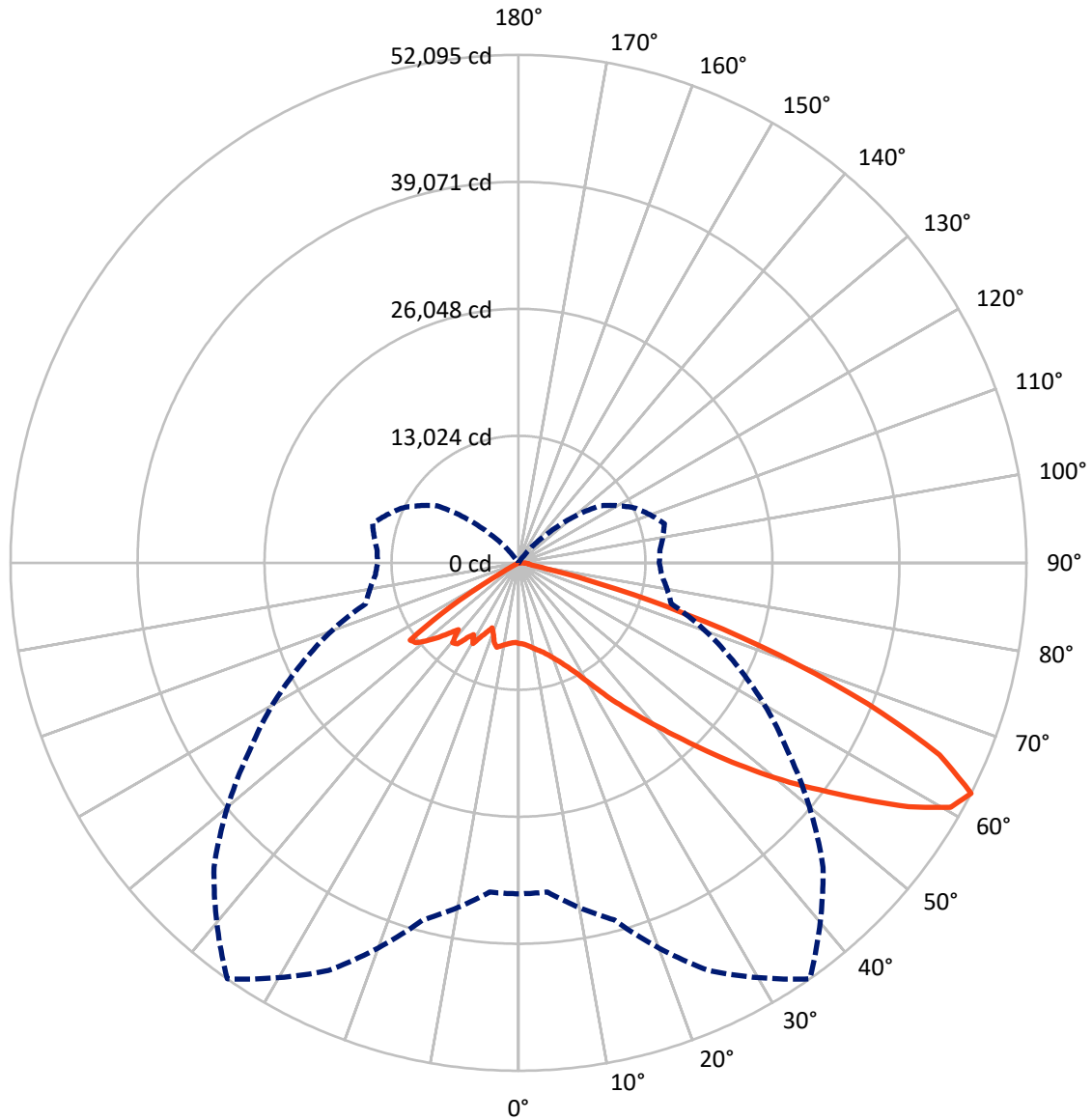
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.6 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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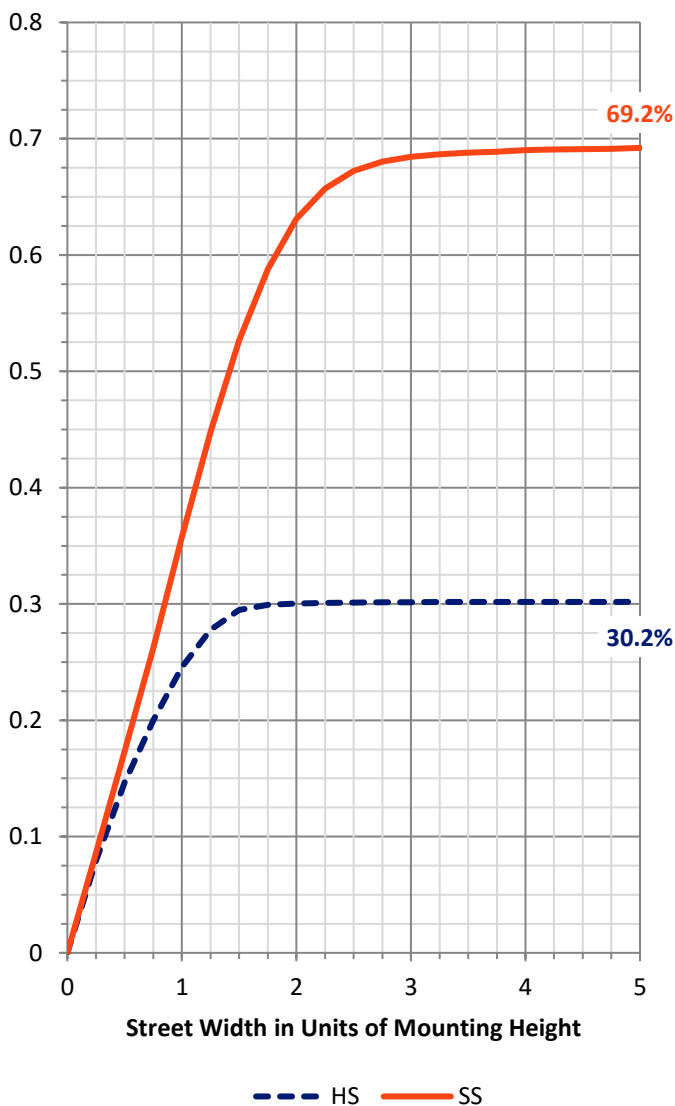
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22302.0	0.1	22302.1
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	51116.2	63.8	51179.9
	% Fixture	69.6	0.1	69.6
Total	Lumens	73418.2	63.8	73482.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	816.5	1.1
10°-20°	2620.4	3.6
20°-30°	4789.4	6.5
30°-40°	9127.0	12.4
40°-50°	15665.7	21.3
50°-60°	21015.9	28.6
60°-70°	15976.3	21.7
70°-80°	3025.1	4.1
80°-90°	382.0	0.5
90°-100°	56.1	0.1
100°-110°	7.6	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°	73418.2	99.9
0°-180°	73482.0	100.0

Coefficient of Utilization



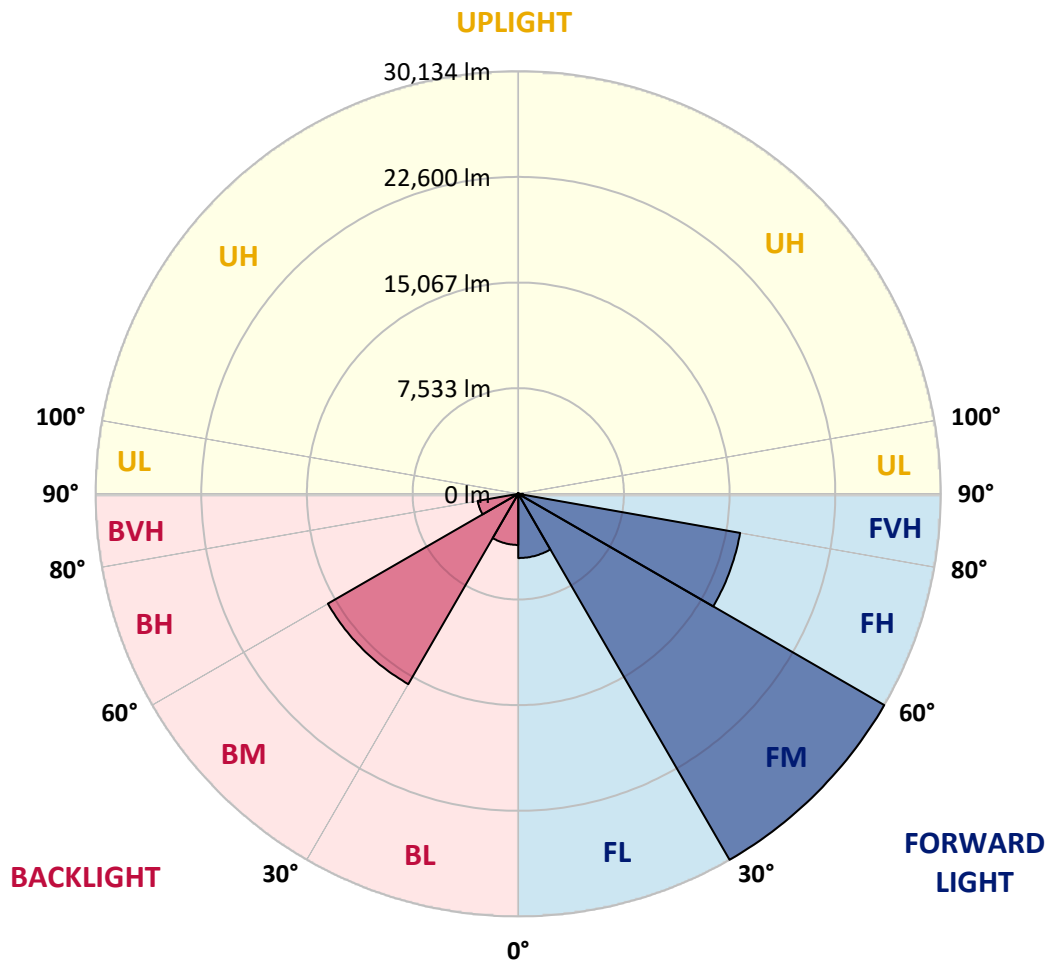
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4580.7	6.2			
FM (30°-60°)	30133.7	41.0			
FH (60°-80°)	16064.5	21.9			G5
FVH (80°-90°)	337.2	0.5			G3/500
BL (0°-30°)	3645.6	5.0	B4/5000		
BM (30°-60°)	15674.8	21.3	B5		
BH (60°-80°)	2936.9	4.0	B4/5000		G4/5000
BVH (80°-90°)	44.8	0.1			G1/100
UL (90°-100°)	56.1	0.1		U3/500	
UH (100°-180°)	7.7	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°	8275.0	8275.0	8275.0	8275.0	8275.0	8275.0	8275.0	8275.0	8275.0	8275.0	8275.0
2.5°	8479.3	8417.0	8420.5	8475.9	8316.5	8375.4	8306.1	8375.4	8337.3	8365.0	8378.9
5°	8628.3	8565.9	8559.0	8617.9	8482.8	8524.4	8455.1	8503.6	8451.6	8486.3	8486.3
7.5°	8853.4	8791.1	8770.3	8815.3	8690.6	8721.8	8649.1	8676.8	8617.9	8662.9	8638.7
10°	9120.1	9050.9	9026.6	9050.9	8943.5	8960.8	8874.2	8905.4	8818.8	8870.7	8836.1
12.5°	9404.2	9314.1	9314.1	9334.9	9220.6	9224.1	9144.4	9161.7	9075.1	9130.5	9089.0
15°	9712.4	9612.0	9625.8	9646.6	9525.4	9546.2	9463.1	9490.8	9400.7	9456.1	9414.6
17.5°	10121.2	10013.8	9999.9	10062.3	9948.0	9986.1	9892.6	9927.2	9847.5	9864.9	9844.1
20°	10685.8	10550.7	10519.5	10602.6	10474.5	10502.2	10432.9	10502.2	10419.1	10294.4	9944.5
22.5°	11361.2	11243.4	11191.5	11246.9	11094.5	11143.0	11139.5	11250.4	11021.8	10235.5	9885.6
25°	12251.4	12171.7	12071.3	12078.2	11894.6	11967.4	12099.0	12185.6	11212.3	10523.0	10529.9
27.5°	13439.5	13359.8	13221.3	13169.3	12902.6	13079.2	13283.6	12438.4	11672.9	11849.6	11752.6
30°	14956.6	14942.8	14662.2	14572.1	14281.2	14502.9	14326.2	12878.3	13141.6	13387.5	13238.6
32.5°	16976.0	16879.0	16473.7	16310.9	16006.1	16134.3	14575.6	14367.8	14759.2	15091.7	14935.8
35°	19418.0	19123.5	18711.3	18389.2	17859.3	17145.7	15524.7	15929.9	16515.3	16972.5	16217.4
37.5°	22254.8	21936.1	21291.9	20713.4	19878.6	17654.9	16955.2	17765.7	18500.1	18004.7	16262.5
40°	25174.8	24890.7	24284.6	23539.9	22130.1	19234.4	18690.6	19660.4	20495.2	17658.4	16792.4
42.5°	28074.0	27831.5	27343.1	26608.8	24793.7	21115.2	20592.2	21634.8	20848.5	18333.8	18306.1
45°	30997.4	30876.2	30321.9	29695.0	27949.3	23522.5	22722.4	23536.4	20062.2	19951.4	19885.6
47.5°	33366.6	33387.4	33193.4	32867.8	31316.1	26165.4	25122.8	22708.6	21018.2	21139.5	21170.6
50°	35808.6	35652.7	35642.3	35663.1	35015.4	29570.3	26757.7	22334.5	22268.7	22258.3	22230.6
52.5°	37765.6	37568.2	37976.9	38302.5	38687.0	33370.1	26511.8	23602.2	23224.7	23093.0	22286.0
55°	39359.0	39282.7	39947.8	41049.3	42760.4	37395.0	28687.0	24838.8	24083.7	21007.8	18950.3
57.5°	40325.3	40436.2	41807.8	43972.7	47176.7	40730.6	31219.1	26092.7	20619.9	18503.5	18371.9
60°	38475.7	39061.1	41395.7	46148.0	50910.7	43868.8	33103.4	26345.5	18555.5	17422.8	17159.6
62.5°	33948.5	33893.1	37904.2	46148.0	52095.3	44180.5	33699.1	24554.7	16210.5	14734.9	14440.5
65°	24028.3	24173.7	28458.4	41586.2	47457.3	41094.3	31084.0	20876.2	12930.3	11576.0	11177.6
67.5°	14870.0	14859.6	19054.3	30626.8	38631.6	34405.7	26168.9	16002.7	8974.7	7696.5	7263.6
70°	5136.8	5282.3	8569.4	17921.6	28437.6	26955.1	19584.2	10103.9	4731.5	3373.7	2847.2
72.5°	2043.6	2092.1	3075.8	7990.9	17765.7	18008.2	11901.6	4908.2	1416.7	900.6	845.2
75°	1337.0	1343.9	1475.6	2885.3	8621.4	9688.2	5528.2	1409.8	658.1	602.7	588.8
77.5°	1153.4	1156.9	1226.2	1461.7	2809.1	3768.6	1572.6	834.8	550.7	495.3	481.5
80°	1070.3	1073.8	1108.4	1257.4	1354.3	1285.1	838.2	672.0	464.1	439.9	436.4
82.5°	1011.4	1025.3	1042.6	1132.7	1094.6	966.4	696.2	543.8	356.8	381.0	391.4
85°	931.8	945.6	956.0	1008.0	914.4	706.6	540.3	408.7	228.6	249.4	245.9
87.5°	699.7	706.6	692.8	685.8	637.3	495.3	356.8	259.8	90.1	83.1	76.2
90°	336.0	332.5	318.7	294.4	256.3	200.9	148.9	83.1	38.1	17.3	6.9
92.5°	266.7	263.2	256.3	232.1	200.9	148.9	107.4	58.9	34.6	13.9	3.5
95°	180.1	173.2	166.3	148.9	124.7	90.1	62.3	41.6	27.7	10.4	3.5
97.5°	117.8	114.3	103.9	90.1	69.3	48.5	38.1	31.2	24.2	10.4	3.5
100°	72.7	72.7	65.8	52.0	34.6	27.7	24.2	24.2	17.3	6.9	0.0
102.5°	45.0	41.6	38.1	24.2	17.3	17.3	17.3	17.3	13.9	6.9	0.0
105°	24.2	24.2	17.3	13.9	10.4	6.9	10.4	13.9	10.4	3.5	0.0
107.5°	6.9	6.9	6.9	3.5	3.5	0.0	3.5	6.9	6.9	3.5	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	6.9	3.5	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°	8275.0	8275.0	8275.0	8275.0	8275.0	8275.0	8275.0	8275.0	8275.0	8275.0
2.5°	8361.6	8295.8	8313.1	8247.3	8236.9	8167.6	8285.4	8292.3	8261.1	8295.8
5°	8468.9	8389.3	8420.5	8340.8	8326.9	8236.9	8330.4	8320.0	8295.8	8323.5
7.5°	8621.4	8541.7	8559.0	8465.5	8448.2	8347.7	8437.8	8403.1	8372.0	8410.1
10°	8832.6	8742.6	8756.4	8645.6	8631.7	8514.0	8617.9	8565.9	8520.9	8572.9
12.5°	9092.4	8974.7	8960.8	8843.0	8832.6	8721.8	8829.2	8777.2	8732.2	8815.3
15°	9390.3	9234.4	9213.7	9064.7	9047.4	8933.1	9037.0	8960.8	8926.2	9033.5
17.5°	9788.6	9237.9	8929.6	8711.4	8586.7	8524.4	8711.4	8964.3	8888.1	8891.5
20°	9625.8	9033.5	8621.4	8434.3	8299.2	7696.5	6865.2	7104.2	7589.1	7828.1
22.5°	9577.4	9369.5	9199.8	8884.6	7544.1	7204.7	7253.2	7197.7	6283.3	5933.5
25°	10505.6	10266.6	9899.5	8247.3	7859.3	7783.1	7810.8	6854.8	6165.5	6266.0
27.5°	11693.7	11447.8	9636.2	8711.4	8635.2	8534.8	7987.5	6792.5	6886.0	6983.0
30°	13190.1	11898.1	10048.4	9764.4	9622.4	9518.5	7488.7	7585.7	7741.6	7862.8
32.5°	14648.3	11860.0	11229.6	10876.3	10699.6	8683.7	8462.0	8687.2	8846.5	8940.0
35°	14665.7	13217.8	12552.7	12099.0	10976.7	9334.9	9539.3	9916.8	10308.2	10381.0
37.5°	15064.0	14755.7	13993.7	13422.2	8164.1	10419.1	10869.3	11302.3	11693.7	11718.0
40°	16650.4	16317.9	15604.3	14347.0	9016.2	10626.9	12334.5	12822.9	13152.0	13134.7
42.5°	18233.3	18004.7	17263.5	12750.2	10159.3	9206.7	13872.4	14194.6	14402.4	14547.9
45°	19826.7	19598.1	17093.8	14000.6	11520.5	10083.1	13498.4	15323.8	15552.4	15625.1
47.5°	21070.2	20505.6	15663.2	15659.8	13221.3	11205.3	11146.4	16342.1	16543.0	16491.1
50°	22220.2	18306.1	16931.0	16203.6	14980.9	12261.8	11853.1	13751.2	17440.1	17363.9
52.5°	20218.1	17765.7	18018.6	14738.4	16394.1	13311.3	12649.7	12331.1	15846.8	17887.0
55°	18080.9	18427.3	19130.5	16193.2	11894.6	13650.8	13325.2	12691.3	10692.7	8998.9
57.5°	18451.6	18967.7	19002.3	17540.6	12310.3	8527.8	10921.3	9560.0	6040.8	6054.7
60°	17215.0	17887.0	13889.8	11693.7	6619.3	1776.9	173.2	152.4	1053.0	1281.6
62.5°	14554.8	15490.0	13259.4	10187.0	4246.6	65.8	17.3	3.5	0.0	0.0
65°	11271.1	12396.9	11205.3	8791.1	3768.6	20.8	0.0	0.0	0.0	0.0
67.5°	7433.3	8448.2	8514.0	7353.6	3141.7	10.4	0.0	0.0	0.0	0.0
70°	3113.9	4385.1	5299.6	5465.8	2469.7	3.5	0.0	0.0	0.0	0.0
72.5°	900.6	1392.4	2549.3	3283.7	1569.1	0.0	0.0	0.0	0.0	0.0
75°	599.2	640.8	737.8	1479.0	782.8	0.0	0.0	0.0	0.0	0.0
77.5°	495.3	505.7	422.6	405.3	225.1	0.0	0.0	0.0	0.0	0.0
80°	450.3	443.4	339.5	239.0	83.1	0.0	0.0	0.0	0.0	0.0
82.5°	415.7	394.9	245.9	124.7	55.4	0.0	0.0	0.0	0.0	0.0
85°	280.6	277.1	110.8	76.2	10.4	0.0	0.0	0.0	0.0	0.0
87.5°	76.2	97.0	24.2	10.4	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: P579542
 CATALOG NUMBER: CST-CA10-760-750-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)