

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: P522175

Luminaire Tested: **CST-CA10-760-750-U-T5R-HSS-HM-EX180**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522175
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: STREETWORKS
Catalog Number: CST-CA10-760-750-U-T5R-HSS-HM-EX180
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71748 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U2 - G5

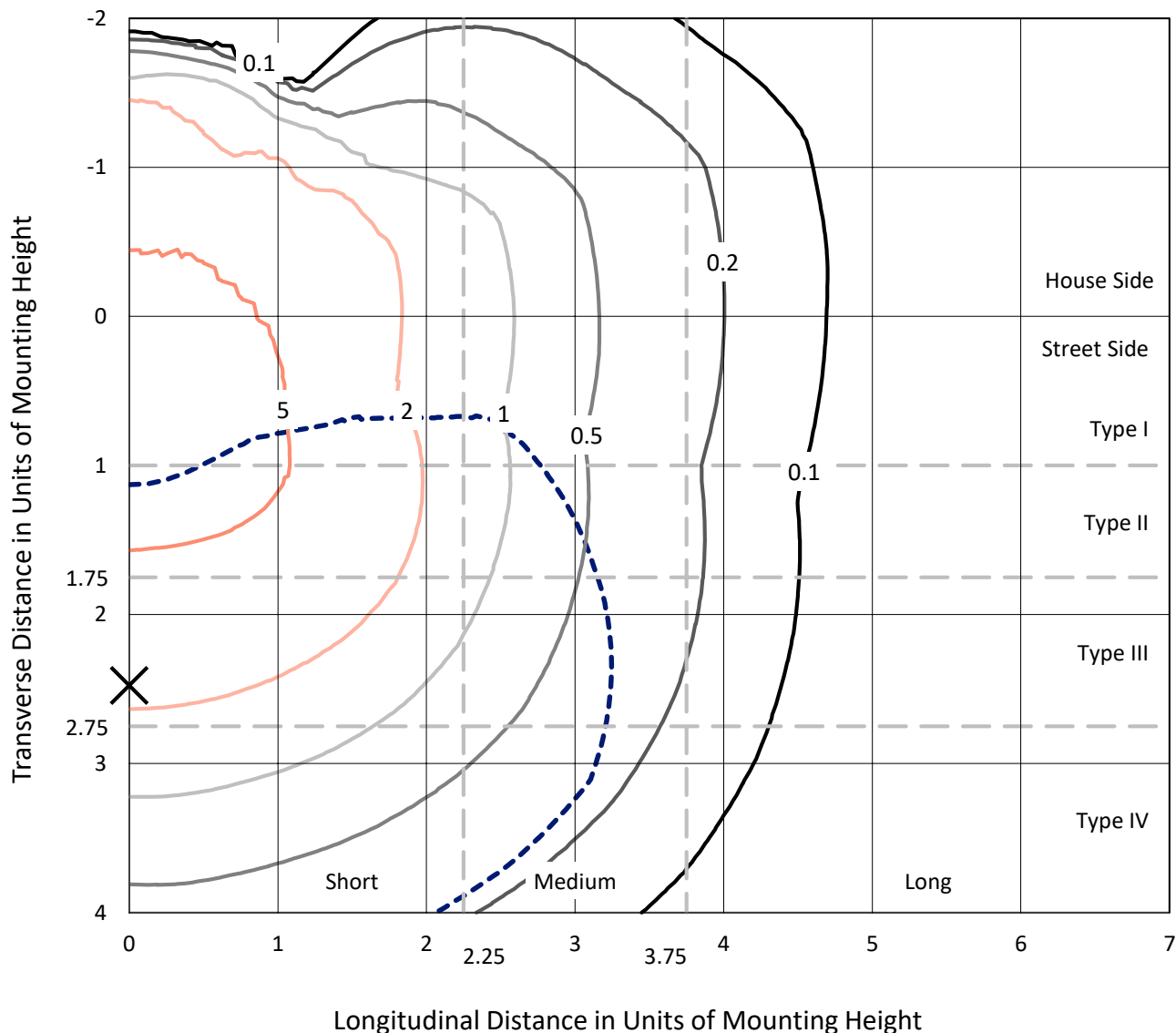
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

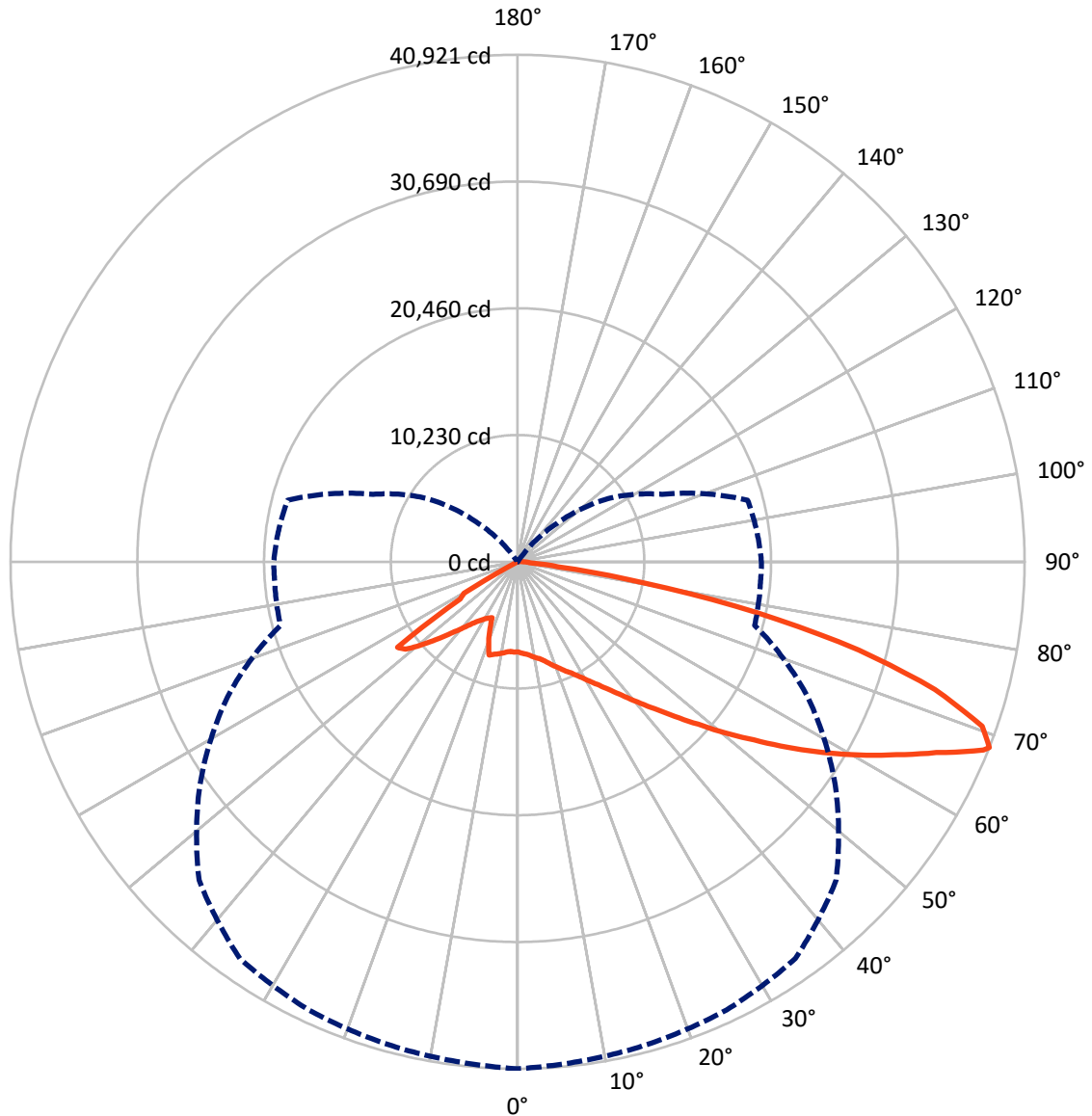
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 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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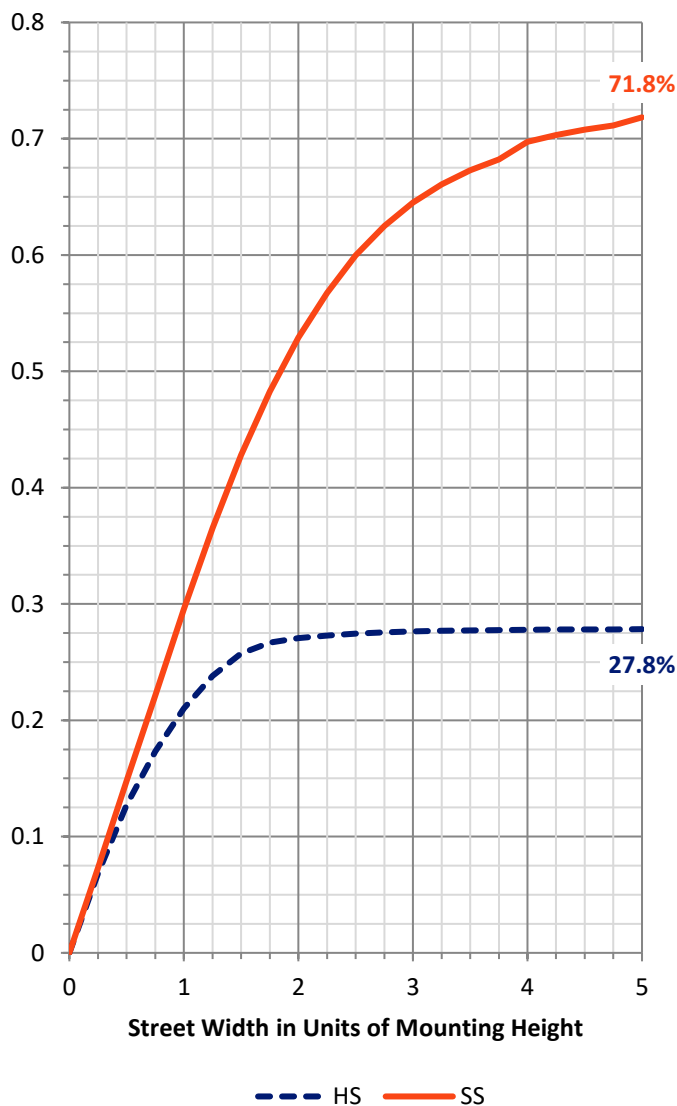
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20039.3	0.4	20039.8
	% Fixture	27.9	0.0	27.9
Street Side	Lumens	51667.1	41.1	51708.2
	% Fixture	72.0	0.1	72.1
Total	Lumens	71706.5	41.5	71748.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.5	1.0
10°-20°	2235.5	3.1
20°-30°	3784.6	5.3
30°-40°	5995.7	8.4
40°-50°	9802.7	13.7
50°-60°	15015.2	20.9
60°-70°	18462.3	25.7
70°-80°	14265.7	19.9
80°-90°	1439.4	2.0
90°-100°	40.9	0.1
100°-110°	0.7	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°	71706.5	99.9
0°-180°	71748.0	100.0

Coefficient of Utilization

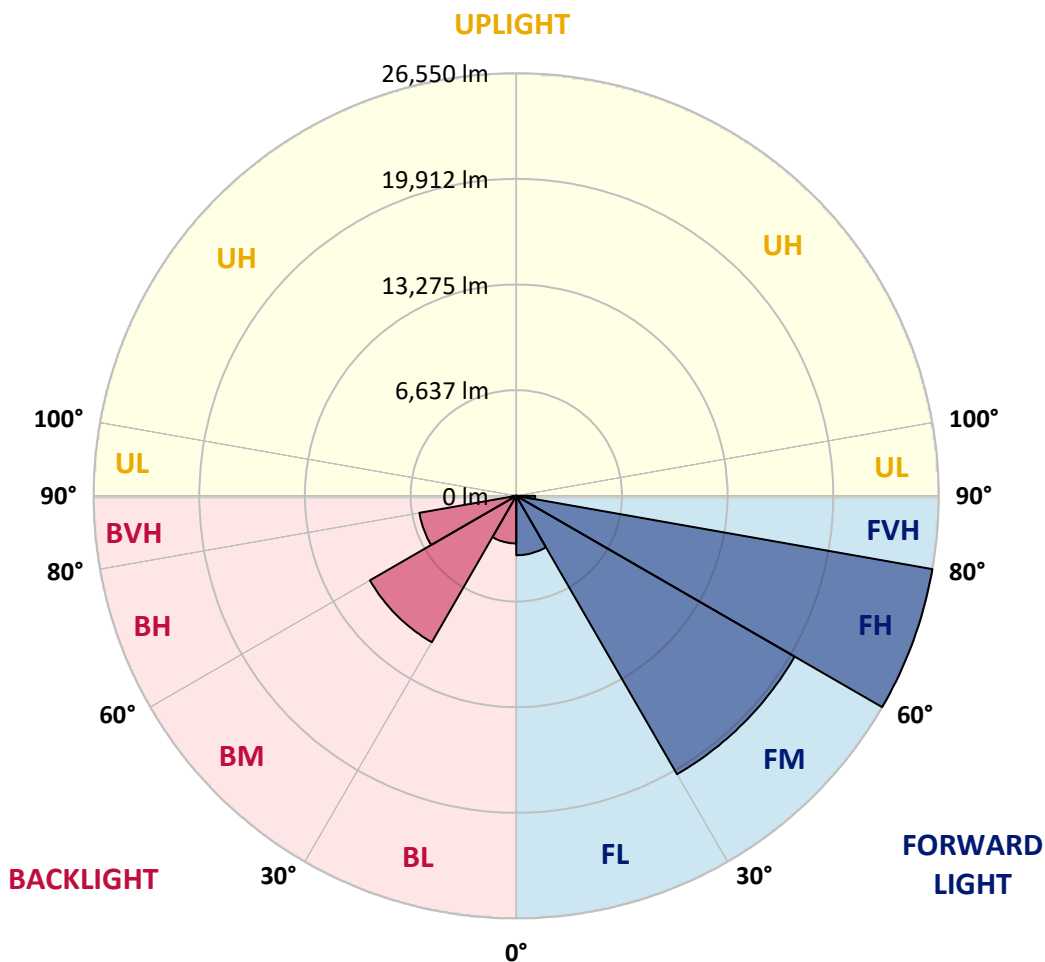


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3734.5	5.2			
FM (30°-60°)	20195.8	28.1			
FH (60°-80°)	26549.8	37.0			G5
FVH (80°-90°)	1187.0	1.7			G5
BL (0°-30°)	2991.1	4.2	B4/5000		
BM (30°-60°)	10617.7	14.8	B5		
BH (60°-80°)	6178.2	8.6	B5		G5
BVH (80°-90°)	252.3	0.4			G3/500
UL (90°-100°)	40.9	0.1		U2/50	
UH (100°-180°)	0.7	0.0		U1/10	

BUG Rating: B5-U2-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7268.8	7268.8	7268.8	7268.8	7268.8	7268.8	7268.8	7268.8	7268.8	7268.8	7268.8
2.5°	7400.2	7386.4	7372.5	7403.6	7282.7	7334.5	7293.0	7331.1	7303.4	7334.5	7324.1
5°	7497.0	7483.1	7441.7	7476.2	7396.7	7417.5	7365.6	7379.4	7286.1	7341.4	7338.0
7.5°	7656.0	7617.9	7590.3	7590.3	7521.2	7517.7	7434.7	7438.2	7365.6	7358.7	7372.5
10°	7870.3	7842.6	7766.6	7773.5	7676.7	7662.9	7559.2	7555.7	7497.0	7462.4	7493.5
12.5°	8029.2	8056.9	7987.8	7987.8	7891.0	7821.9	7749.3	7700.9	7656.0	7604.1	7579.9
15°	8319.6	8347.2	8253.9	8250.5	8212.4	8129.5	8050.0	7946.3	7866.8	7842.6	7804.6
17.5°	8696.3	8679.1	8599.6	8603.0	8609.9	8475.1	8395.6	8260.8	8146.8	8063.8	8043.1
20°	9080.0	9080.0	8993.6	9021.2	8986.7	8862.2	8810.4	8623.8	8464.8	8374.9	8302.3
22.5°	9508.6	9491.3	9432.6	9491.3	9422.2	9297.8	9211.3	9024.7	8820.8	8312.7	8105.3
25°	9916.4	9906.1	9930.3	9947.6	9861.1	9705.6	9646.8	9449.8	8883.0	8215.9	7797.7
27.5°	10431.5	10396.9	10452.2	10486.8	10400.3	10265.5	10141.1	9919.9	8720.5	8195.2	8150.2
30°	11091.6	11015.6	11095.1	11112.4	11022.5	10939.5	10752.9	9646.8	8775.8	8623.8	8609.9
32.5°	11796.7	11706.9	11810.6	11824.4	11706.9	11637.7	11167.7	9505.1	9318.5	9142.2	9159.5
35°	12633.2	12633.2	12685.0	12691.9	12605.5	12488.0	10697.6	10196.4	10030.5	9868.1	9864.6
37.5°	13652.8	13621.7	13760.0	13842.9	13749.6	13414.3	11382.0	11146.9	10891.2	10683.8	10255.2
40°	14883.3	14938.6	14976.6	15059.6	14969.7	14216.2	12380.9	12114.7	11914.3	11219.5	10137.7
42.5°	16210.6	16224.4	16307.4	16411.1	16411.1	15616.1	13549.1	13321.0	13061.8	10970.7	10483.3
45°	17797.1	17766.0	17925.0	18090.9	18045.9	17223.3	14907.5	14738.1	13524.9	11693.0	11696.5
47.5°	19597.9	19559.8	19788.0	20005.7	19781.1	19006.8	16400.7	16269.3	13054.9	12916.6	12889.0
50°	21678.6	21585.3	21848.0	22138.3	21955.1	20997.7	18215.3	15692.1	14364.9	14254.2	14237.0
52.5°	23901.1	23828.5	23987.5	24481.8	24239.8	23081.9	19933.1	16189.8	15882.2	15757.8	15726.7
55°	26410.5	26268.7	26610.9	26987.7	26707.7	25387.4	21626.8	17842.0	17524.0	17309.7	16998.6
57.5°	29047.7	28843.8	29020.0	29493.6	29224.0	27748.1	23811.2	19542.6	19165.8	15861.5	14599.9
60°	31674.6	31581.2	31650.4	32068.6	31736.8	30043.1	25857.4	21246.6	16220.9	15688.7	15750.9
62.5°	34315.3	34111.3	34173.6	34602.2	34177.0	32227.6	27796.5	22795.0	17071.2	16884.6	16950.3
65°	37146.1	36904.1	36959.4	37083.9	36558.5	34187.4	29510.9	24257.1	18350.1	18153.1	18225.7
67.5°	40557.6	40336.3	40035.6	39665.8	38940.0	36268.1	31214.9	25795.2	19788.0	19677.4	19701.6
68°	40920.5	40706.2	40343.3	39904.3	39088.6	36354.6	31287.5	25840.1	19808.7	19670.4	19677.4
70°	39790.2	39918.1	39506.8	38770.6	38089.7	35089.5	30101.9	24844.7	18927.3	18723.4	18671.5
72.5°	35238.1	35518.1	34951.3	34826.8	33990.4	31259.8	26341.3	21557.6	16462.9	16528.6	16341.9
75°	28449.7	28861.1	28173.2	28211.2	27734.3	26075.2	22076.1	17949.2	13518.0	13818.7	13874.0
77.5°	19784.5	20375.6	20074.8	20375.6	20140.5	19542.6	17085.1	13822.2	10313.9	10659.6	10794.4
80°	10317.4	11019.0	11416.5	11541.0	11617.0	11592.8	10403.8	8295.4	5962.3	6090.2	6083.3
82.5°	3262.9	3093.5	3193.7	3166.1	3079.7	3114.2	2806.6	2194.8	1520.8	1676.4	1603.8
85°	985.1	992.0	964.3	957.4	884.8	777.7	636.0	366.4	179.7	210.8	197.0
87.5°	725.8	732.8	677.5	642.9	601.4	521.9	404.4	228.1	86.4	83.0	65.7
90°	400.9	387.1	359.5	331.8	314.5	269.6	203.9	86.4	31.1	24.2	20.7
92.5°	217.8	207.4	193.6	183.2	159.0	127.9	83.0	27.7	13.8	3.5	0.0
95°	100.2	93.3	89.9	79.5	69.1	48.4	27.7	17.3	10.4	3.5	0.0
97.5°	44.9	41.5	38.0	31.1	24.2	13.8	13.8	10.4	6.9	3.5	0.0
100°	10.4	10.4	6.9	6.9	6.9	6.9	6.9	6.9	6.9	3.5	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	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°	7268.8	7268.8	7268.8	7268.8	7268.8	7268.8	7268.8	7268.8	7268.8	7268.8
2.5°	7313.8	7293.0	7282.7	7217.0	7237.7	7179.0	7293.0	7265.4	7248.1	7296.5
5°	7320.7	7248.1	7293.0	7255.0	7268.8	7185.9	7275.8	7237.7	7234.3	7255.0
7.5°	7338.0	7289.6	7334.5	7258.5	7293.0	7258.5	7324.1	7286.1	7317.2	7338.0
10°	7431.3	7403.6	7382.9	7365.6	7389.8	7320.7	7403.6	7407.1	7417.5	7479.7
12.5°	7562.6	7535.0	7500.4	7455.5	7479.7	7452.0	7514.2	7531.5	7569.5	7600.7
15°	7745.8	7694.0	7680.2	7638.7	7662.9	7649.0	7662.9	7652.5	7725.1	7714.7
17.5°	7998.1	7939.4	7742.4	7541.9	7414.0	7452.0	7611.0	7818.4	7870.3	7877.2
20°	8091.5	7676.7	7656.0	7427.8	7324.1	7317.2	6988.9	6498.1	6646.7	6995.8
22.5°	7980.9	7414.0	7355.2	7310.3	6867.9	6142.0	6072.9	6000.3	5983.1	6034.9
25°	7732.0	7666.3	7614.5	7026.9	6328.7	6332.1	6231.9	5754.9	5011.8	4949.6
27.5°	8112.2	8022.3	7521.2	6615.6	6601.7	6594.8	6446.2	5222.6	5063.6	5101.7
30°	8544.3	8395.6	7085.6	6968.1	6964.7	6902.5	5779.1	5267.6	5267.6	5274.5
32.5°	9042.0	8119.1	7334.5	7389.8	7386.4	7092.6	5582.1	5547.5	5533.7	5568.3
35°	9422.2	7897.9	7870.3	7970.5	7901.4	6017.6	5931.2	5900.1	5886.3	5869.0
37.5°	9304.7	8533.9	8533.9	8596.1	8039.6	6408.2	6366.7	6366.7	6339.1	6325.2
40°	9484.4	9325.4	9245.9	9270.1	5841.3	6881.7	6912.8	6905.9	6902.5	6926.7
42.5°	10431.5	10289.7	10217.2	9360.0	6539.5	6840.2	7600.7	7597.2	7607.6	7597.2
45°	11637.7	11506.4	11316.3	8758.6	7424.4	5996.9	8378.3	8416.4	8419.8	8416.4
47.5°	12902.8	12819.8	10873.9	9695.2	8385.3	6435.8	8008.5	9353.1	9335.8	9356.5
50°	14240.4	13867.1	10818.6	10804.7	9408.4	7161.7	7165.1	10172.2	10348.5	10403.8
52.5°	15730.1	12571.0	11990.3	10939.5	10445.3	7908.3	7832.2	9014.3	11420.0	11475.3
55°	14610.3	13279.5	13269.2	9736.7	10867.0	8627.2	8637.6	8554.6	10472.9	11903.9
57.5°	14537.7	14568.8	14544.6	10863.5	7929.0	8088.0	9411.8	9339.2	6781.5	5495.7
60°	15792.4	15837.3	14129.8	11731.1	8571.9	4973.8	5796.4	4925.4	4991.1	5042.9
62.5°	16991.7	17005.6	11492.6	7690.5	4247.9	200.5	96.8	79.5	76.0	76.0
65°	18319.0	18319.0	12318.7	8388.7	4102.8	76.0	13.8	10.4	38.0	38.0
67.5°	19601.3	19317.9	12923.5	8907.2	4175.3	10.4	0.0	0.0	0.0	0.0
68°	19528.7	19217.7	12868.2	8893.4	4165.0	6.9	0.0	0.0	0.0	0.0
70°	18443.4	18142.7	12208.1	8489.0	4009.4	6.9	0.0	0.0	0.0	0.0
72.5°	16279.7	16003.2	10811.7	7483.1	3615.4	3.5	0.0	0.0	0.0	0.0
75°	13780.7	13742.7	9339.2	6314.9	3100.4	3.5	0.0	0.0	0.0	0.0
77.5°	11088.2	10915.4	7299.9	4949.6	2499.0	0.0	0.0	0.0	0.0	0.0
80°	6176.6	6432.4	4272.1	2910.3	1572.7	0.0	0.0	0.0	0.0	0.0
82.5°	1669.4	1562.3	933.2	632.5	300.7	0.0	0.0	0.0	0.0	0.0
85°	214.3	235.0	107.1	86.4	20.7	0.0	0.0	0.0	0.0	0.0
87.5°	110.6	131.3	34.6	27.7	6.9	0.0	0.0	0.0	0.0	0.0
90°	20.7	24.2	10.4	3.5	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



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 CATALOG NUMBER: CST-CA10-760-750-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)