

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: P510745

Luminaire Tested: **CTN-CA8-230-760-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA8-230-760-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37126 lumens
Efficiency: N/A
Efficacy: 162.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

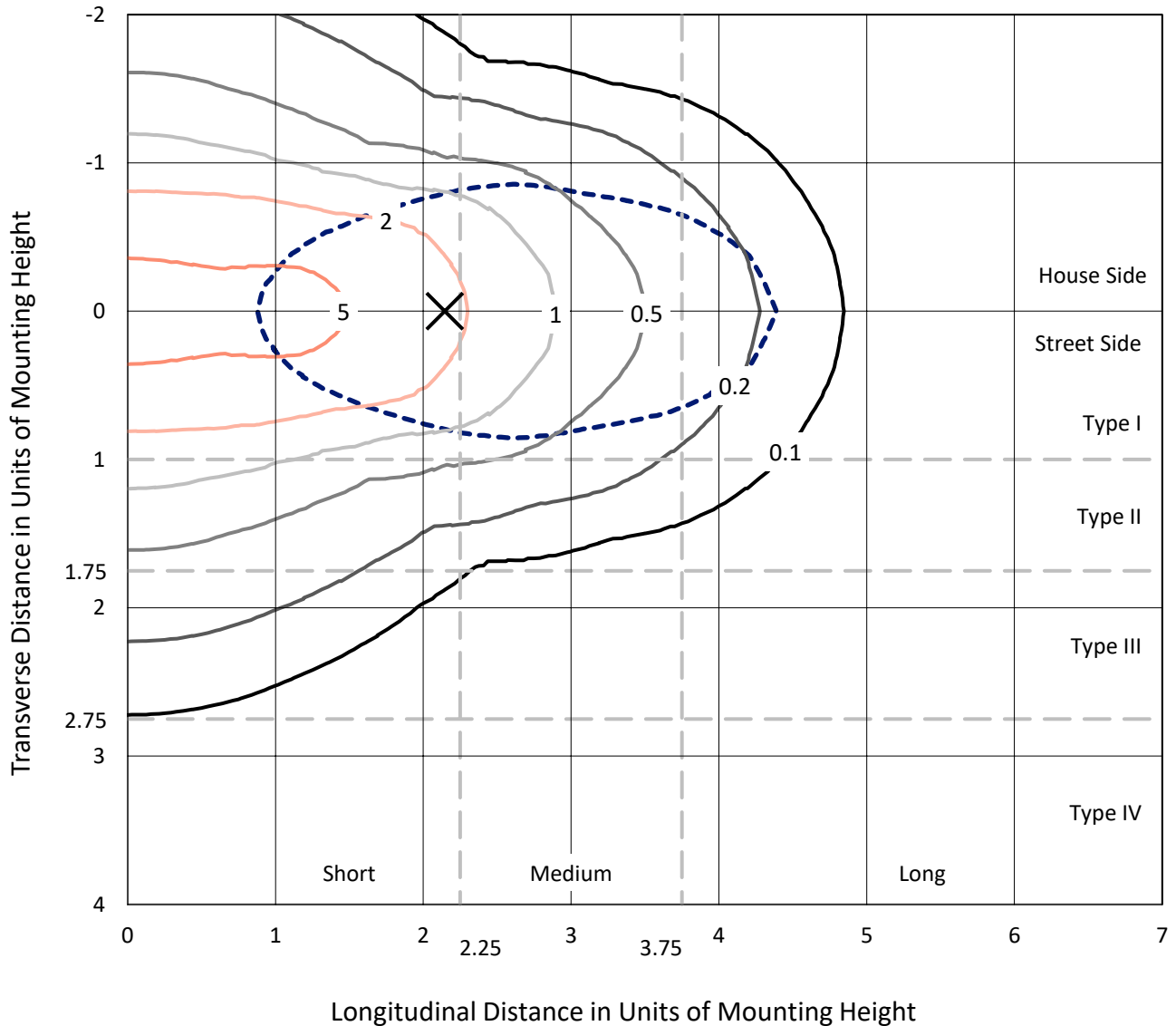
Input Watts (W): 228.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

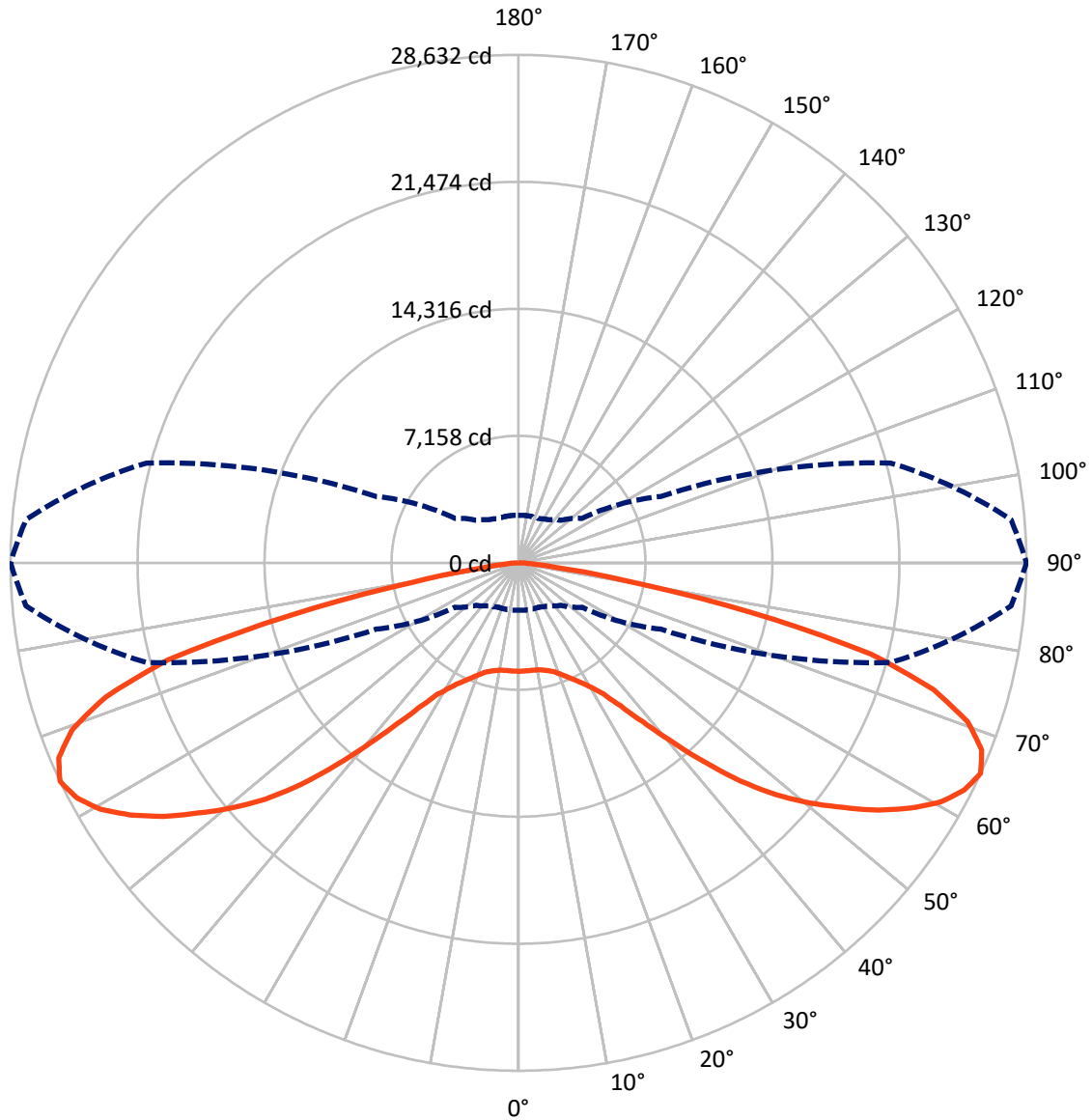
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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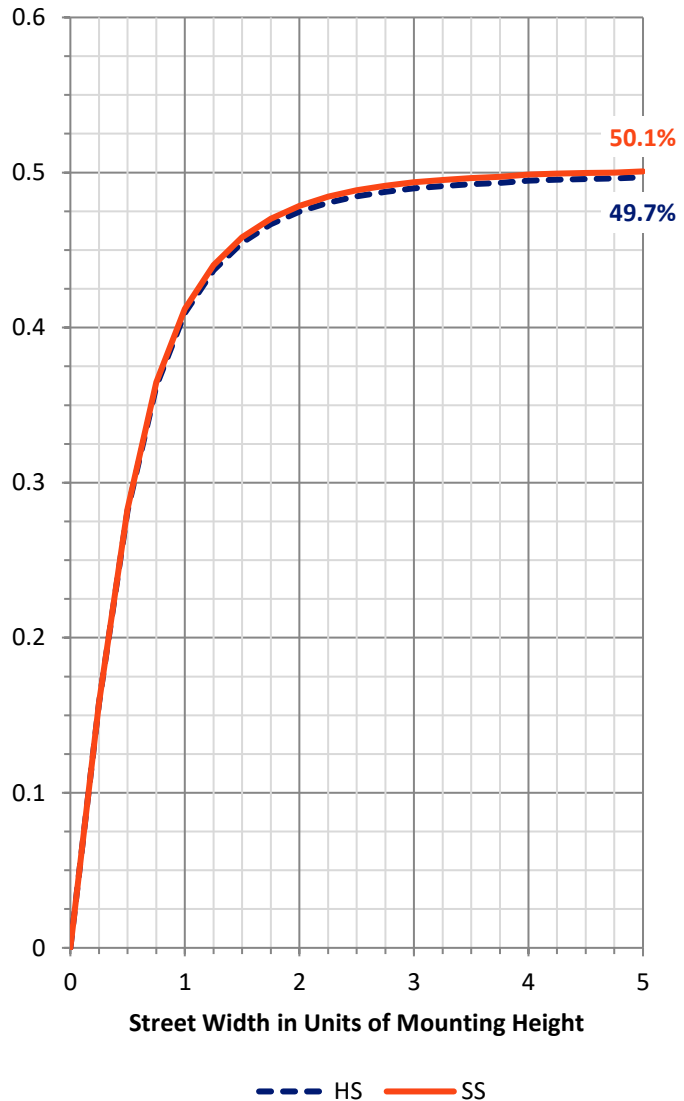
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18563.0	0.0	18563.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18563.0	0.0	18563.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37126.0	0.0	37126.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.4	1.6
10°-20°	1712.8	4.6
20°-30°	2821.5	7.6
30°-40°	4133.8	11.1
40°-50°	6112.3	16.5
50°-60°	8017.8	21.6
60°-70°	8364.8	22.5
70°-80°	4809.3	13.0
80°-90°	573.3	1.5
90°-100°	0.0	0.0
100°-110°	0.0	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°	37126.0	100.0
0°-180°	37126.0	100.0

Coefficient of Utilization

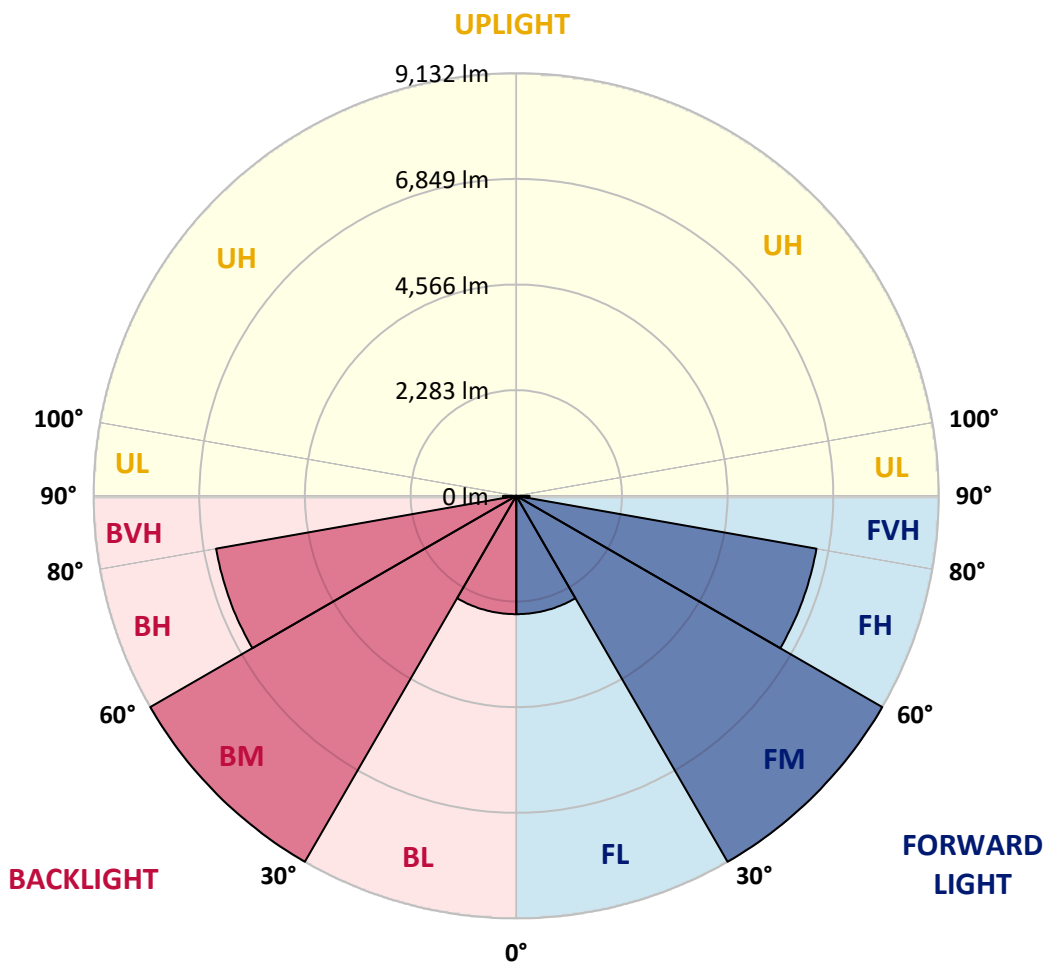


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2557.4	6.9			
FM (30°-60°)	9131.9	24.6			
FH (60°-80°)	6587.0	17.7			G3/7500
FVH (80°-90°)	286.7	0.8			G3/500
BL (0°-30°)	2557.4	6.9	B4/5000		
BM (30°-60°)	9131.9	24.6	B5		
BH (60°-80°)	6587.0	17.7	B5		G5
BVH (80°-90°)	286.7	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6116.4	6116.4	6116.4	6116.4	6116.4	6116.4	6116.4	6116.4	6116.4	6116.4	6116.4
2.5°	6114.9	6110.6	6109.1	6107.0	6110.6	6113.5	6120.8	6127.3	6125.8	6124.4	6125.8
5°	6080.8	6083.0	6083.7	6084.5	6087.4	6089.5	6099.7	6109.9	6108.4	6107.0	6114.2
7.5°	6032.9	6032.9	6031.5	6030.0	6035.9	6040.9	6051.1	6061.2	6069.2	6076.5	6088.1
10°	5963.3	5960.4	5959.7	5958.9	5965.5	5971.3	5990.1	6009.0	6025.0	6040.2	6059.8
12.5°	5878.4	5877.7	5879.1	5880.6	5894.4	5908.1	5940.1	5972.0	6003.9	6035.9	6064.2
15°	5777.5	5768.8	5776.1	5782.6	5805.1	5826.9	5888.5	5950.2	5998.8	6046.7	6101.9
17.5°	5623.7	5615.0	5625.9	5636.0	5681.0	5726.0	5813.1	5899.4	5990.9	6082.3	6161.4
20°	5390.8	5390.8	5418.3	5445.9	5522.1	5598.3	5718.0	5837.0	5960.4	6083.7	6198.4
22.5°	5142.6	5135.3	5194.1	5252.9	5344.3	5435.0	5586.0	5736.9	5900.2	6062.7	6220.2
25°	4862.5	4874.8	4948.8	5022.1	5150.6	5278.3	5464.1	5649.1	5854.4	6059.8	6278.2
27.5°	4625.9	4628.1	4717.4	4806.6	4967.7	5128.1	5353.8	5579.4	5829.8	6080.1	6355.1
30°	4381.4	4421.3	4515.6	4609.2	4789.2	4969.2	5242.0	5514.1	5810.9	6107.7	6442.9
32.5°	4193.5	4202.9	4309.6	4415.5	4603.4	4791.4	5108.5	5425.6	5781.9	6138.2	6546.0
35°	4016.4	4031.6	4131.1	4230.5	4426.4	4621.6	4969.2	5316.0	5742.0	6167.2	6657.7
37.5°	3858.9	3877.8	3972.1	4066.5	4255.1	4443.8	4812.4	5181.1	5680.3	6179.5	6780.4
40°	3743.6	3759.5	3839.3	3919.2	4089.7	4259.5	4645.5	5030.8	5593.9	6157.0	6876.9
42.5°	3660.1	3667.4	3732.0	3796.5	3948.9	4101.3	4483.7	4865.4	5481.5	6097.5	6951.6
45°	3546.9	3562.9	3626.7	3689.9	3827.0	3963.4	4313.2	4662.9	5314.6	5965.5	6952.3
47.5°	3462.7	3472.9	3533.1	3592.6	3720.3	3848.1	4162.3	4476.5	5125.9	5774.6	6874.0
50°	3401.1	3396.0	3451.9	3507.0	3615.1	3722.5	4002.6	4282.0	4892.2	5502.5	6678.0
52.5°	3313.3	3319.1	3364.1	3409.0	3502.7	3595.5	3846.6	4096.9	4633.2	5168.7	6360.2
55°	3195.7	3222.6	3260.3	3297.3	3379.3	3461.3	3687.0	3912.6	4374.1	4834.9	5951.0
57.5°	3080.3	3099.9	3131.9	3163.8	3228.4	3292.2	3504.8	3717.4	4101.3	4485.2	5434.3
60°	2986.0	2991.1	3011.4	3031.0	3080.3	3129.7	3305.3	3480.9	3816.1	4150.6	4919.1
62.5°	2864.1	2865.5	2879.3	2893.1	2923.6	2953.3	3091.2	3228.4	3514.3	3800.2	4406.8
65°	2673.2	2684.9	2697.9	2710.3	2730.6	2750.2	2855.4	2960.6	3174.7	3388.7	3877.8
67.5°	2480.2	2470.1	2485.3	2500.5	2503.4	2506.4	2586.2	2666.0	2841.6	3017.2	3410.5
70°	2166.0	2174.0	2172.6	2170.4	2158.0	2145.0	2200.9	2256.7	2349.6	2441.8	2726.2
72.5°	1661.0	1650.1	1622.5	1594.2	1581.2	1568.1	1633.4	1698.0	1766.2	1834.4	2039.8
75°	1015.2	1046.4	1103.7	1160.3	1182.1	1203.8	1200.2	1195.9	1190.0	1184.2	1440.4
77.5°	687.9	704.6	717.7	730.0	761.9	793.1	829.4	865.7	865.0	864.2	1025.3
80°	437.6	424.5	430.3	436.1	454.2	472.4	527.5	582.0	597.2	611.7	722.7
82.5°	274.3	276.5	283.7	290.3	269.9	249.6	292.4	334.5	370.8	406.4	457.9
85°	177.8	201.7	198.1	194.5	170.5	146.6	184.3	222.0	239.5	256.2	275.7
87.5°	57.3	66.8	68.9	70.4	70.4	69.7	77.6	85.6	88.5	90.7	98.0
90°	0.0	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	0.0
95°	0.0	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	0.0
100°	0.0	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	0.0
105°	0.0	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	0.0
110°	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):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	6116.4	6116.4	6116.4	6116.4	6116.4	6116.4	6116.4	6116.4
2.5°	6126.6	6119.3	6112.0	6109.9	6107.7	6106.2	6104.8	6103.3
5°	6120.8	6119.3	6117.8	6112.0	6106.2	6105.5	6104.8	6107.0
7.5°	6099.7	6099.7	6099.7	6106.2	6112.8	6109.9	6106.2	6110.6
10°	6078.7	6096.1	6113.5	6118.6	6123.7	6127.3	6130.9	6134.5
12.5°	6092.5	6122.2	6151.2	6167.9	6184.6	6193.3	6201.3	6203.5
15°	6157.0	6194.8	6232.5	6255.0	6276.8	6291.3	6305.8	6309.4
17.5°	6240.5	6298.5	6355.9	6388.5	6421.2	6437.9	6453.8	6448.7
20°	6312.3	6392.1	6472.0	6541.6	6611.3	6649.7	6687.5	6691.8
22.5°	6376.9	6511.1	6645.4	6735.4	6824.6	6892.8	6961.0	6968.3
25°	6495.9	6671.5	6847.1	6990.8	7134.5	7196.9	7258.6	7294.8
27.5°	6629.4	6864.5	7099.6	7291.9	7484.2	7579.3	7673.6	7678.7
30°	6777.5	7075.7	7373.2	7631.5	7889.1	8005.2	8120.6	8181.6
32.5°	6953.1	7331.8	7709.9	8049.5	8389.1	8565.4	8741.8	8803.4
35°	7147.5	7638.8	8129.3	8597.4	9064.7	9402.1	9739.5	9902.0
37.5°	7381.2	8006.7	8632.2	9335.3	10038.5	10613.9	11188.6	11352.6
40°	7596.7	8401.4	9205.4	10182.1	11158.9	12071.7	12983.8	13161.6
42.5°	7805.7	8779.5	9753.3	11085.6	12417.8	13639.8	14861.8	15324.0
45°	7938.5	9116.2	10293.2	12049.9	13806.7	15484.4	17161.3	17549.5
47.5°	7972.6	9356.4	10740.2	12916.3	15092.5	17067.0	19040.7	19539.2
50°	7853.6	9481.2	11108.8	13980.9	16852.2	18862.9	20873.0	21282.2
52.5°	7551.7	9441.3	11330.8	14805.9	18281.0	20409.3	22537.6	22909.1
55°	7067.0	9198.9	11330.8	15485.1	19638.7	21846.0	24052.7	24617.3
57.5°	6383.4	8735.9	11088.5	15938.6	20788.8	23186.3	25583.8	26091.0
60°	5687.5	8185.2	10682.1	16189.0	21695.8	24235.6	26775.3	27367.4
62.5°	5012.7	7437.1	9860.7	15926.3	21991.9	24673.1	27353.6	28205.5
65°	4366.9	6606.2	8845.5	15285.6	21724.9	24797.2	27868.8	28632.2
67.5°	3803.8	5911.8	8019.7	14211.6	20403.5	23803.8	27203.4	28154.7
70°	3010.7	4950.3	6889.9	12307.5	17725.1	21707.4	25689.7	26863.8
72.5°	2245.1	3890.1	5534.4	9681.5	13828.5	18408.0	22986.7	24464.1
75°	1695.8	3107.2	4518.5	7652.6	10786.6	14663.7	18540.8	20518.1
77.5°	1186.4	2245.1	3303.1	5641.1	7979.1	10125.5	12272.0	13325.6
80°	833.0	1420.1	2006.4	3131.1	4255.1	5207.2	6158.5	6083.0
82.5°	508.7	755.4	1001.4	1358.4	1715.4	1945.4	2175.5	2165.3
85°	295.3	359.2	422.3	523.2	624.0	738.0	851.9	757.6
87.5°	104.5	104.5	104.5	119.7	135.0	185.8	236.6	249.6
90°	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
95°	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
100°	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
105°	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
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: CTN-CA8-230-760-U-T1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	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
117.5°	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
122.5°	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
127.5°	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
132.5°	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
137.5°	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
142.5°	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
147.5°	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
152.5°	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
157.5°	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
162.5°	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
167.5°	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
172.5°	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
177.5°	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

(END OF REPORT)