

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: P510775

Luminaire Tested: **CTN-CA8-330-730-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510775
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-CA8-330-730-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49941 lumens
Efficiency: N/A
Efficacy: 150.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

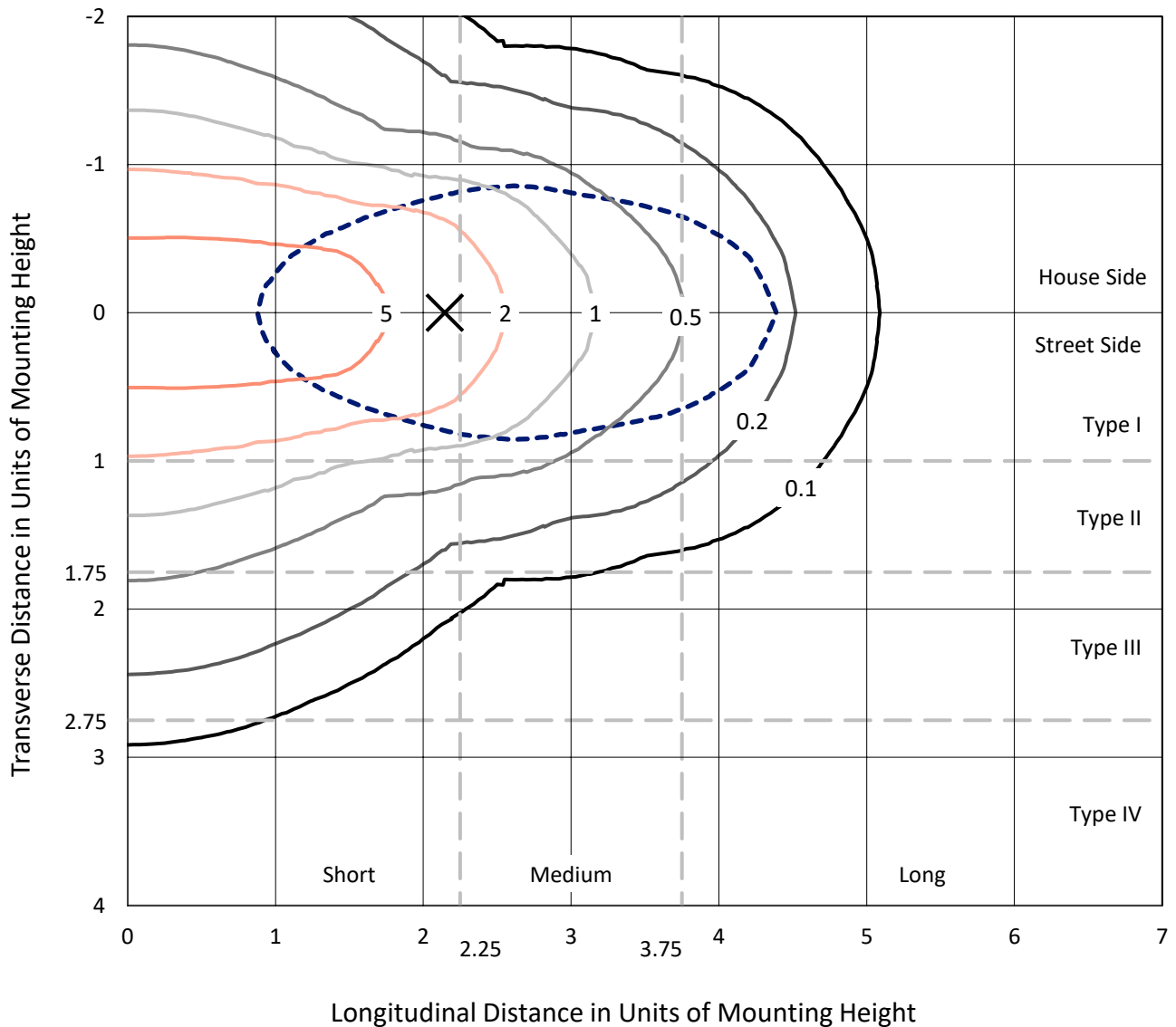
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

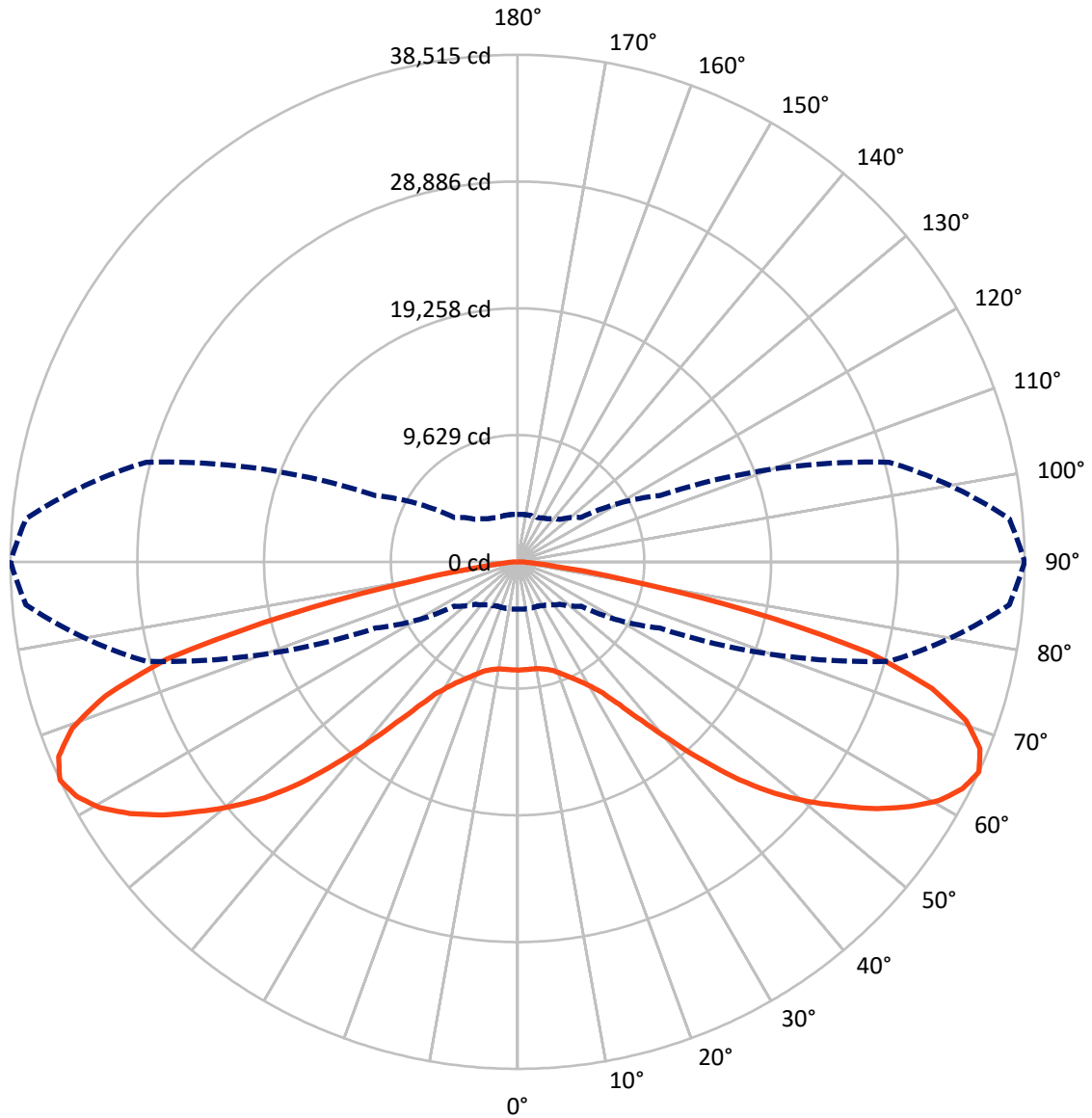
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 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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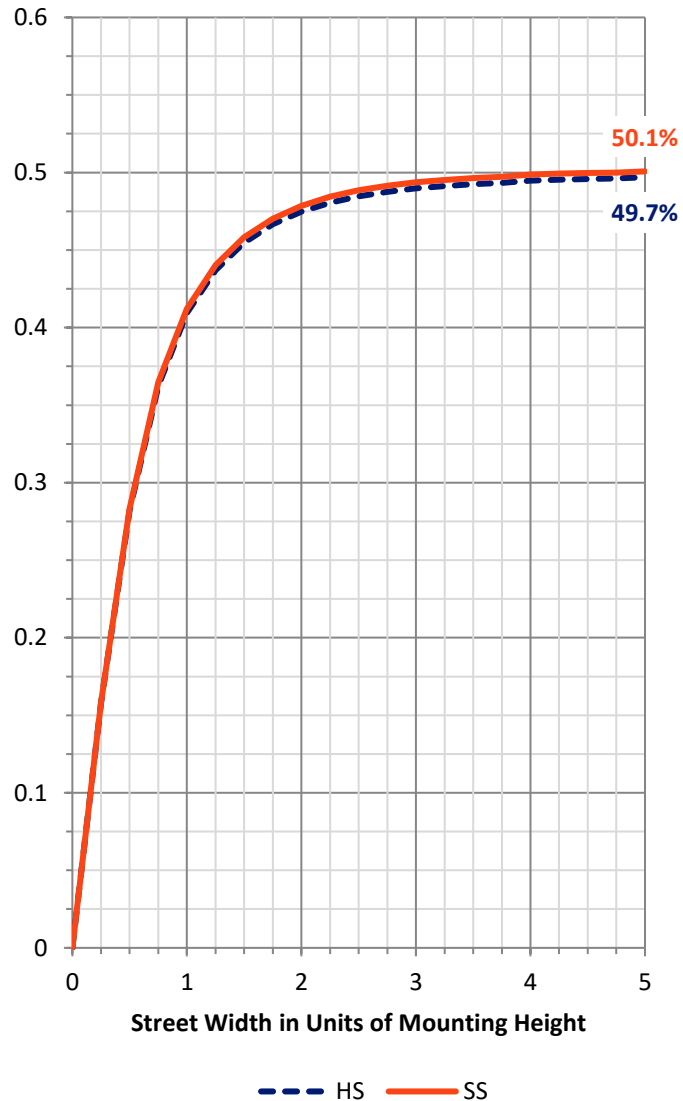
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24970.5	0.0	24970.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24970.5	0.0	24970.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	49941.0	0.0	49941.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	780.8	1.6
10°-20°	2304.1	4.6
20°-30°	3795.4	7.6
30°-40°	5560.7	11.1
40°-50°	8222.1	16.5
50°-60°	10785.3	21.6
60°-70°	11252.1	22.5
70°-80°	6469.3	13.0
80°-90°	771.2	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°	49941.0	100.0
0°-180°	49941.0	100.0

Coefficient of Utilization

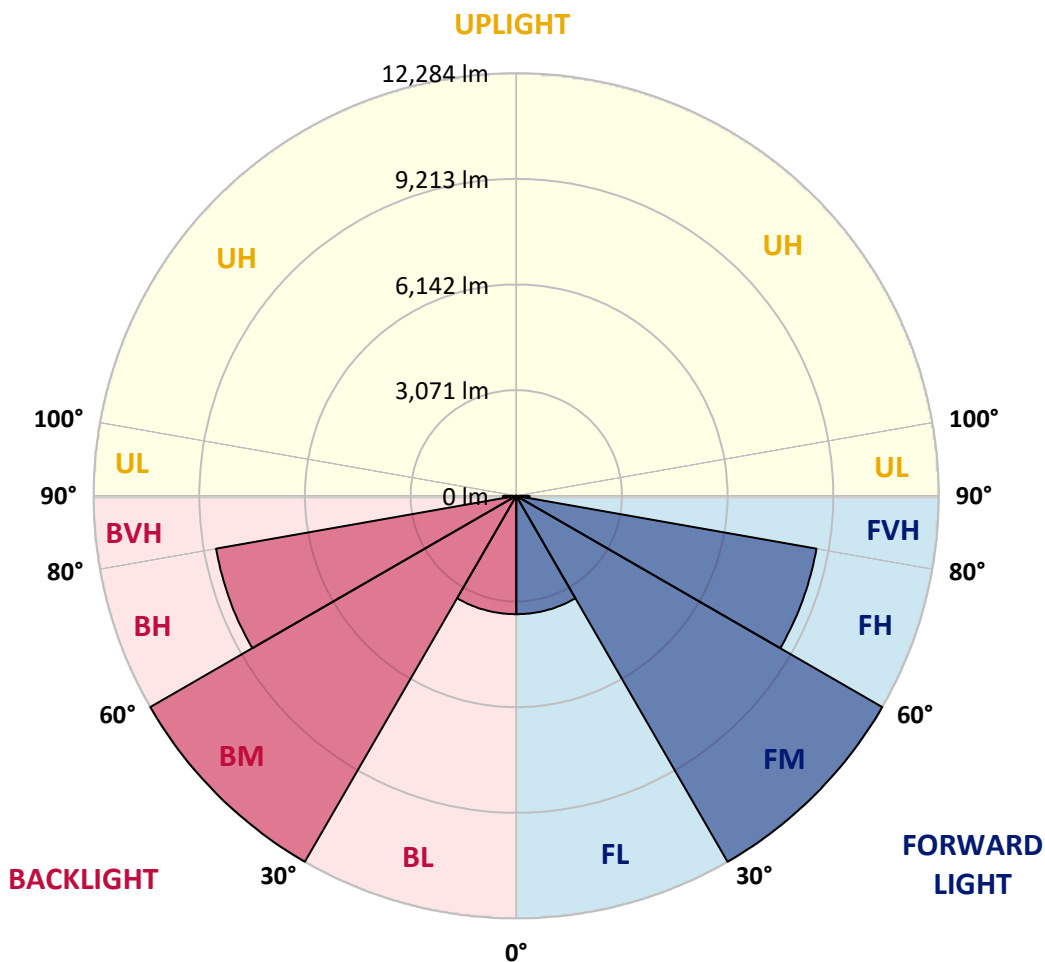


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3440.1	6.9			
FM (30°-60°)	12284.0	24.6			
FH (60°-80°)	8860.7	17.7			G4/12000
FVH (80°-90°)	385.6	0.8			G3/500
BL (0°-30°)	3440.1	6.9	B4/5000		
BM (30°-60°)	12284.0	24.6	B5		
BH (60°-80°)	8860.7	17.7	B5		G5
BVH (80°-90°)	385.6	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°	8227.6	8227.6	8227.6	8227.6	8227.6	8227.6	8227.6	8227.6	8227.6	8227.6	8227.6
2.5°	8225.7	8219.8	8217.9	8214.9	8219.8	8223.7	8233.5	8242.3	8240.3	8238.4	8240.3
5°	8179.8	8182.7	8183.7	8184.7	8188.6	8191.5	8205.2	8218.8	8216.9	8214.9	8224.7
7.5°	8115.4	8115.4	8113.4	8111.5	8119.3	8126.1	8139.8	8153.4	8164.2	8173.9	8189.6
10°	8021.7	8017.8	8016.8	8015.8	8024.6	8032.4	8057.8	8083.2	8104.6	8125.1	8151.5
12.5°	7907.5	7906.5	7908.4	7910.4	7928.9	7947.5	7990.4	8033.4	8076.3	8119.3	8157.4
15°	7771.8	7760.1	7769.8	7778.6	7808.9	7838.2	7921.1	8004.1	8069.5	8133.9	8208.1
17.5°	7564.9	7553.1	7567.8	7581.4	7642.0	7702.5	7819.6	7935.8	8058.8	8181.8	8288.2
20°	7251.5	7251.5	7288.6	7325.7	7428.2	7530.7	7691.7	7851.8	8017.8	8183.7	8337.9
22.5°	6917.7	6907.9	6987.0	7066.1	7189.1	7311.1	7514.1	7717.1	7936.8	8155.4	8367.2
25°	6540.9	6557.5	6657.1	6755.7	6928.4	7100.2	7350.1	7599.0	7875.3	8151.5	8445.3
27.5°	6222.7	6225.6	6345.7	6465.8	6682.4	6898.2	7201.7	7505.3	7842.1	8178.8	8548.8
30°	5893.8	5947.4	6074.3	6200.3	6442.3	6684.4	7051.4	7417.5	7816.7	8215.9	8666.9
32.5°	5640.9	5653.6	5797.1	5939.6	6192.4	6445.3	6871.8	7298.4	7777.6	8256.9	8805.5
35°	5402.8	5423.3	5557.0	5690.7	5954.3	6216.8	6684.4	7151.0	7724.0	8296.0	8955.8
37.5°	5191.0	5216.3	5343.2	5470.1	5723.9	5977.7	6473.6	6969.4	7641.0	8312.6	9120.8
40°	5035.8	5057.2	5164.6	5272.0	5501.4	5729.8	6249.1	6767.4	7524.8	8282.3	9250.6
42.5°	4923.5	4933.3	5020.1	5107.0	5312.0	5517.0	6031.4	6544.8	7373.5	8202.3	9351.1
45°	4771.2	4792.7	4878.6	4963.5	5148.0	5331.5	5802.0	6272.5	7149.0	8024.6	9352.1
47.5°	4658.0	4671.7	4752.7	4832.7	5004.5	5176.3	5599.0	6021.6	6895.2	7767.9	9246.7
50°	4575.0	4568.2	4643.4	4717.5	4863.0	5007.4	5384.2	5760.0	6580.9	7401.8	8983.1
52.5°	4456.9	4464.7	4525.2	4585.8	4711.7	4836.6	5174.4	5511.1	6232.5	6952.8	8555.6
55°	4298.8	4334.9	4385.7	4435.4	4545.7	4656.0	4959.6	5263.2	5884.0	6503.8	8005.1
57.5°	4143.6	4169.9	4212.9	4255.8	4342.7	4428.6	4714.6	5000.6	5517.0	6033.3	7310.1
60°	4016.7	4023.5	4050.9	4077.2	4143.6	4210.0	4446.2	4682.4	5133.4	5583.3	6617.0
62.5°	3852.7	3854.7	3873.2	3891.8	3932.7	3972.8	4158.2	4342.7	4727.3	5111.9	5927.9
65°	3596.0	3611.6	3629.2	3645.8	3673.1	3699.5	3841.0	3982.5	4270.5	4558.4	5216.3
67.5°	3336.3	3322.7	3343.2	3363.7	3367.6	3371.5	3478.9	3586.2	3822.4	4058.7	4587.7
70°	2913.7	2924.4	2922.5	2919.5	2903.0	2885.4	2960.5	3035.7	3160.6	3284.6	3667.2
72.5°	2234.3	2219.7	2182.6	2144.5	2126.9	2109.4	2197.2	2284.1	2375.9	2467.6	2743.8
75°	1365.6	1407.6	1484.7	1560.8	1590.1	1619.4	1614.5	1608.6	1600.8	1593.0	1937.6
77.5°	925.4	947.8	965.4	982.0	1024.9	1066.9	1115.7	1164.5	1163.5	1162.5	1379.2
80°	588.6	571.0	578.8	586.6	611.0	635.4	709.6	782.8	803.3	822.9	972.2
82.5°	369.0	371.9	381.7	390.4	363.1	335.8	393.4	450.0	498.8	546.6	615.9
85°	239.1	271.4	266.5	261.6	229.4	197.2	247.9	298.7	322.1	344.6	370.9
87.5°	77.1	89.8	92.7	94.7	94.7	93.7	104.4	115.2	119.1	122.0	131.8
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°	8227.6	8227.6	8227.6	8227.6	8227.6	8227.6	8227.6	8227.6
2.5°	8241.3	8231.5	8221.8	8218.8	8215.9	8214.0	8212.0	8210.1
5°	8233.5	8231.5	8229.6	8221.8	8214.0	8213.0	8212.0	8214.9
7.5°	8205.2	8205.2	8205.2	8214.0	8222.8	8218.8	8214.0	8219.8
10°	8176.9	8200.3	8223.7	8230.6	8237.4	8242.3	8247.2	8252.0
12.5°	8195.4	8235.4	8274.5	8296.9	8319.4	8331.1	8341.8	8344.8
15°	8282.3	8333.1	8383.8	8414.1	8443.4	8462.9	8482.4	8487.3
17.5°	8394.5	8472.6	8549.7	8593.7	8637.6	8660.0	8681.5	8674.7
20°	8491.2	8598.6	8705.9	8799.6	8893.3	8945.1	8995.8	9001.7
22.5°	8578.1	8758.6	8939.2	9060.3	9180.3	9272.1	9363.8	9373.6
25°	8738.1	8974.4	9210.6	9403.8	9597.1	9681.1	9764.0	9812.8
27.5°	8917.7	9234.0	9550.3	9808.9	10067.6	10195.5	10322.4	10329.2
30°	9116.9	9518.0	9918.3	10265.7	10612.3	10768.4	10923.6	11005.6
32.5°	9353.1	9862.6	10371.2	10828.0	11284.8	11522.0	11759.2	11842.2
35°	9614.7	10275.5	10935.4	11565.0	12193.6	12647.5	13101.3	13320.0
37.5°	9929.0	10770.4	11611.8	12557.7	13503.5	14277.6	15050.6	15271.2
40°	10218.9	11301.4	12382.9	13696.8	15010.6	16238.6	17465.5	17704.7
42.5°	10500.0	11810.0	13119.9	14912.0	16704.2	18347.9	19991.7	20613.5
45°	10678.6	12262.9	13846.1	16209.3	18572.4	20829.2	23085.0	23607.2
47.5°	10724.5	12586.0	14447.4	17374.8	20302.1	22958.1	25613.1	26283.7
50°	10564.4	12753.9	14943.3	18806.7	22669.2	25374.0	28077.8	28628.3
52.5°	10158.4	12700.2	15242.0	19916.5	24591.1	27454.1	30317.0	30816.8
55°	9506.3	12374.1	15242.0	20830.2	26417.4	29386.8	32355.1	33114.5
57.5°	8586.8	11751.4	14915.9	21440.3	27964.6	31189.6	34414.7	35097.0
60°	7650.8	11010.5	14369.3	21777.0	29184.7	32601.1	36017.5	36814.0
62.5°	6743.0	10004.2	13264.4	21423.7	29583.0	33189.7	36795.4	37941.4
65°	5874.2	8886.5	11898.8	20561.8	29223.8	33356.6	37488.5	38515.3
67.5°	5116.8	7952.4	10788.0	19117.1	27446.3	32020.3	36593.4	37873.1
70°	4049.9	6659.0	9268.2	16555.8	23843.4	29200.3	34557.2	36136.6
72.5°	3020.1	5232.9	7444.8	13023.3	18601.7	24762.0	30921.2	32908.6
75°	2281.2	4179.7	6078.2	10294.1	14509.9	19725.2	24940.6	27600.5
77.5°	1595.9	3020.1	4443.3	7588.3	10733.3	13620.6	16508.0	17925.3
80°	1120.6	1910.2	2698.9	4211.9	5723.9	7004.6	8284.2	8182.7
82.5°	684.3	1016.1	1347.0	1827.3	2307.5	2617.0	2926.4	2912.7
85°	397.3	483.2	568.1	703.8	839.5	992.7	1146.0	1019.1
87.5°	140.6	140.6	140.6	161.1	181.6	249.9	318.2	335.8
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-CA8-330-730-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)