

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: P510755

Luminaire Tested: **CTN-CA8-330-722-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510755
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-CA8-330-722-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41452 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

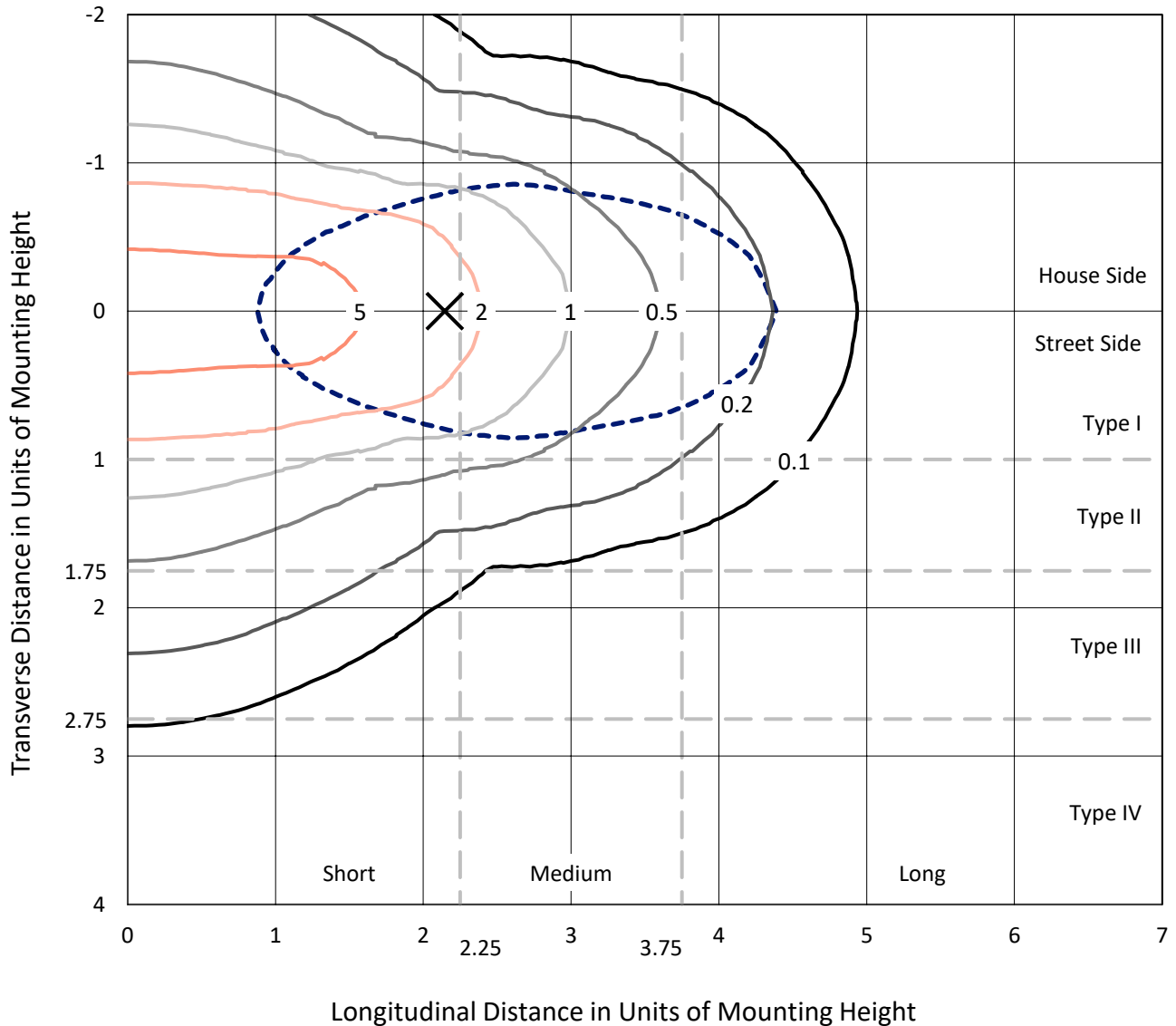
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

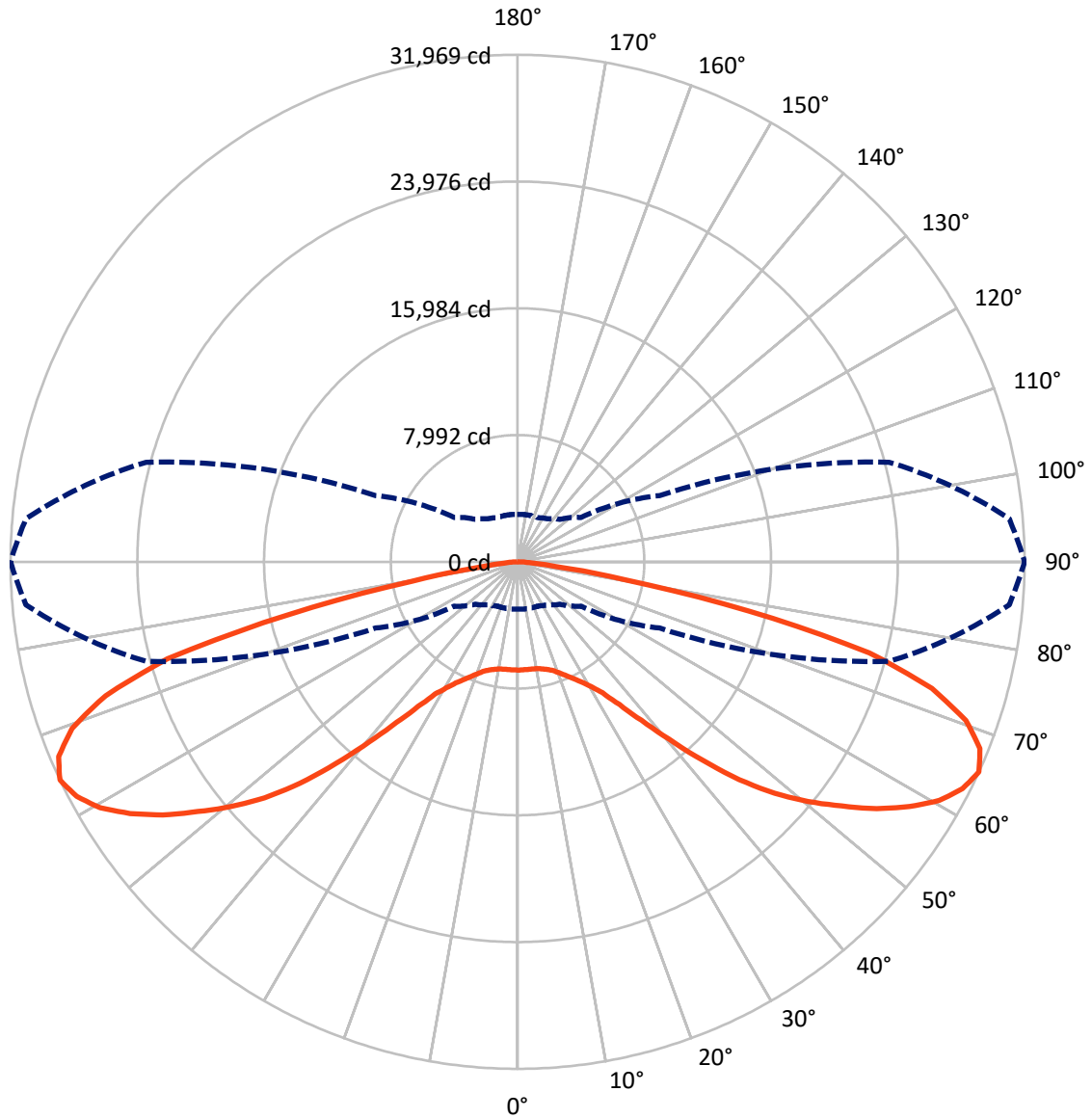
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 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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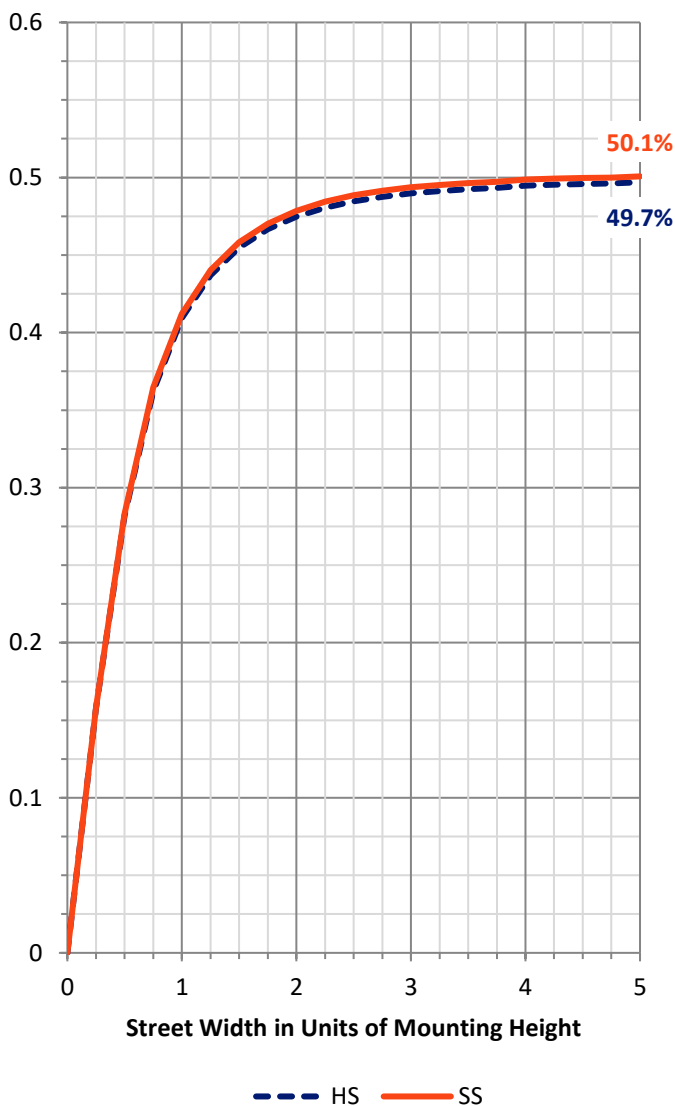
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20726.0	0.0	20726.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20726.0	0.0	20726.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	41452.0	0.0	41452.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	648.1	1.6
10°-20°	1912.4	4.6
20°-30°	3150.2	7.6
30°-40°	4615.5	11.1
40°-50°	6824.5	16.5
50°-60°	8952.0	21.6
60°-70°	9339.5	22.5
70°-80°	5369.7	13.0
80°-90°	640.1	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°	41452.0	100.0
0°-180°	41452.0	100.0

Coefficient of Utilization

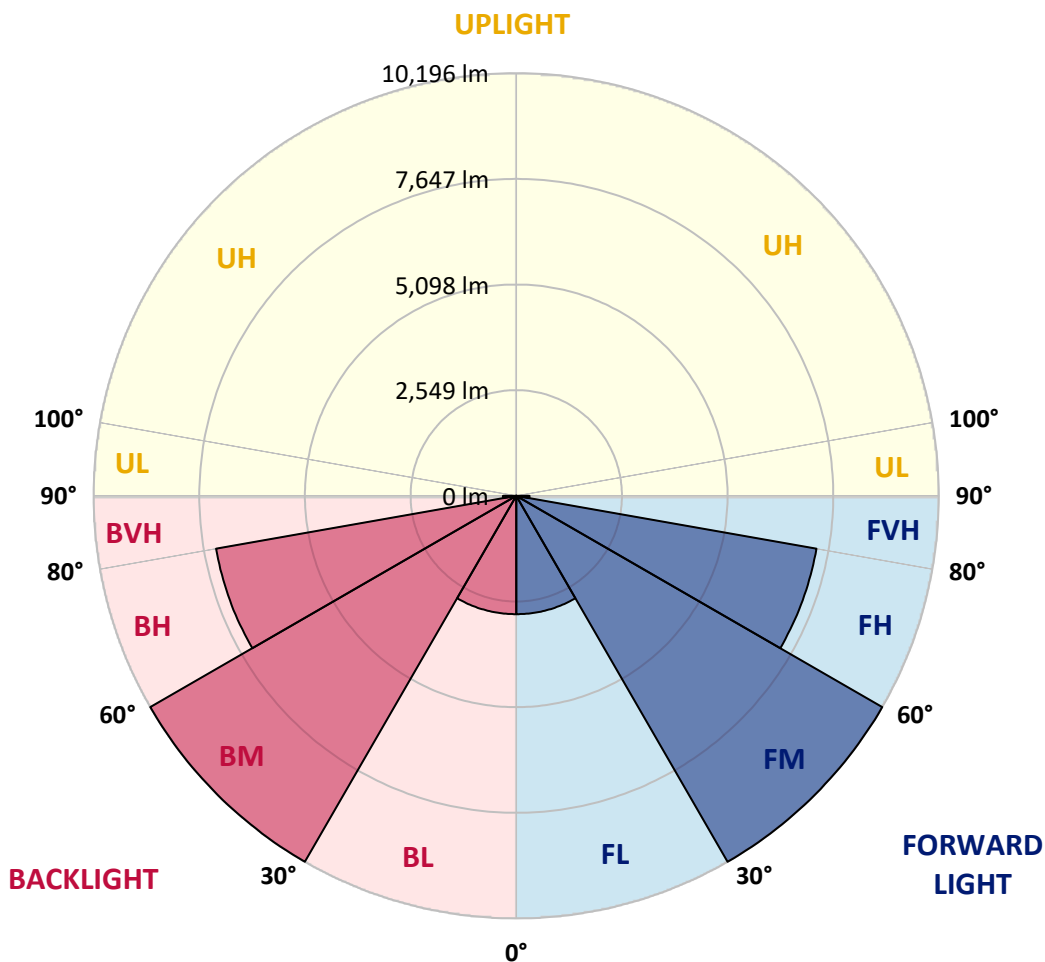


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2855.4	6.9			
FM (30°-60°)	10196.0	24.6			
FH (60°-80°)	7354.6	17.7			G3/7500
FVH (80°-90°)	320.1	0.8			G3/500
BL (0°-30°)	2855.4	6.9	B4/5000		
BM (30°-60°)	10196.0	24.6	B5		
BH (60°-80°)	7354.6	17.7	B5		G5
BVH (80°-90°)	320.1	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°	6829.1	6829.1	6829.1	6829.1	6829.1	6829.1	6829.1	6829.1	6829.1	6829.1	6829.1
2.5°	6827.5	6822.6	6821.0	6818.6	6822.6	6825.9	6834.0	6841.2	6839.6	6838.0	6839.6
5°	6789.4	6791.8	6792.6	6793.4	6796.7	6799.1	6810.5	6821.8	6820.2	6818.6	6826.7
7.5°	6735.9	6735.9	6734.3	6732.7	6739.2	6744.8	6756.2	6767.5	6776.4	6784.5	6797.5
10°	6658.1	6654.9	6654.1	6653.3	6660.6	6667.1	6688.1	6709.2	6727.0	6744.0	6765.9
12.5°	6563.4	6562.5	6564.2	6565.8	6581.2	6596.6	6632.2	6667.9	6703.5	6739.2	6770.8
15°	6450.7	6441.0	6449.1	6456.4	6481.5	6505.8	6574.7	6643.6	6697.8	6751.3	6812.9
17.5°	6279.0	6269.3	6281.4	6292.7	6343.0	6393.2	6490.4	6586.8	6688.9	6791.0	6879.3
20°	6018.9	6018.9	6049.7	6080.5	6165.5	6250.6	6384.3	6517.2	6654.9	6792.6	6920.6
22.5°	5741.8	5733.7	5799.3	5865.0	5967.1	6068.3	6236.8	6405.4	6587.7	6769.1	6945.0
25°	5429.1	5442.9	5525.5	5607.3	5750.7	5893.3	6100.7	6307.3	6536.6	6765.9	7009.8
27.5°	5165.0	5167.4	5267.0	5366.7	5546.6	5725.6	5977.6	6229.6	6509.1	6788.6	7095.6
30°	4891.9	4936.5	5041.8	5146.3	5347.3	5548.2	5852.8	6156.6	6488.0	6819.4	7193.7
32.5°	4682.1	4692.6	4811.7	4930.0	5139.8	5349.7	5703.7	6057.8	6455.6	6853.4	7308.7
35°	4484.4	4501.4	4612.4	4723.4	4942.2	5160.1	5548.2	5935.5	6411.0	6885.8	7433.5
37.5°	4308.6	4329.7	4435.0	4540.3	4751.0	4961.6	5373.2	5784.8	6342.2	6899.6	7570.4
40°	4179.8	4197.6	4286.7	4375.8	4566.2	4755.8	5186.8	5617.0	6245.8	6874.5	7678.2
42.5°	4086.6	4094.7	4166.8	4238.9	4409.1	4579.2	5006.2	5432.3	6120.2	6808.0	7761.6
45°	3960.2	3978.0	4049.3	4119.8	4272.9	4425.3	4815.8	5206.3	5933.8	6660.6	7762.4
47.5°	3866.2	3877.6	3944.8	4011.3	4153.8	4296.4	4647.3	4998.1	5723.2	6447.5	7674.9
50°	3797.4	3791.7	3854.1	3915.6	4036.4	4156.3	4469.0	4780.9	5462.3	6143.7	7456.2
52.5°	3699.3	3705.8	3756.0	3806.3	3910.8	4014.5	4294.8	4574.3	5173.1	5771.0	7101.3
55°	3568.1	3598.1	3640.2	3681.5	3773.1	3864.6	4116.6	4368.5	4883.8	5398.3	6644.4
57.5°	3439.3	3461.1	3496.8	3532.4	3604.5	3675.8	3913.2	4150.6	4579.2	5007.8	6067.5
60°	3333.9	3339.6	3362.3	3384.2	3439.3	3494.4	3690.4	3886.5	4260.8	4634.3	5492.3
62.5°	3197.8	3199.4	3214.8	3230.2	3264.3	3297.5	3451.4	3604.5	3923.8	4243.0	4920.3
65°	2984.7	2997.7	3012.3	3026.1	3048.7	3070.6	3188.1	3305.6	3544.6	3783.6	4329.7
67.5°	2769.2	2757.9	2774.9	2791.9	2795.2	2798.4	2887.5	2976.6	3172.7	3368.8	3807.9
70°	2418.4	2427.3	2425.7	2423.3	2409.5	2394.9	2457.3	2519.7	2623.4	2726.3	3043.9
72.5°	1854.5	1842.4	1811.6	1780.0	1765.4	1750.8	1823.7	1895.8	1972.0	2048.2	2277.4
75°	1133.5	1168.3	1232.3	1295.5	1319.8	1344.1	1340.1	1335.2	1328.7	1322.2	1608.2
77.5°	768.1	786.7	801.3	815.1	850.7	885.5	926.0	966.6	965.7	964.9	1144.8
80°	488.5	474.0	480.4	486.9	507.2	527.4	589.0	649.8	666.8	683.0	806.9
82.5°	306.3	308.7	316.8	324.1	301.4	278.7	326.5	373.5	414.0	453.7	511.2
85°	198.5	225.2	221.2	217.1	190.4	163.7	205.8	247.9	267.4	286.0	307.9
87.5°	64.0	74.5	77.0	78.6	78.6	77.8	86.7	95.6	98.8	101.3	109.4
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°	6829.1	6829.1	6829.1	6829.1	6829.1	6829.1	6829.1	6829.1
2.5°	6840.4	6832.3	6824.2	6821.8	6819.4	6817.8	6816.1	6814.5
5°	6834.0	6832.3	6830.7	6824.2	6817.8	6816.9	6816.1	6818.6
7.5°	6810.5	6810.5	6810.5	6817.8	6825.0	6821.8	6817.8	6822.6
10°	6787.0	6806.4	6825.9	6831.5	6837.2	6841.2	6845.3	6849.3
12.5°	6802.4	6835.6	6868.0	6886.6	6905.3	6915.0	6923.9	6926.3
15°	6874.5	6916.6	6958.7	6983.8	7008.1	7024.3	7040.6	7044.6
17.5°	6967.6	7032.5	7096.5	7132.9	7169.4	7188.0	7205.8	7200.2
20°	7047.8	7137.0	7226.1	7303.9	7381.6	7424.6	7466.7	7471.6
22.5°	7120.0	7269.8	7419.7	7520.2	7619.8	7696.0	7772.2	7780.3
25°	7252.8	7448.9	7645.0	7805.4	7965.8	8035.5	8104.3	8144.8
27.5°	7401.9	7664.4	7926.9	8141.6	8356.3	8462.4	8567.8	8573.4
30°	7567.2	7900.2	8232.3	8520.8	8808.4	8938.0	9066.8	9134.9
32.5°	7763.2	8186.2	8608.3	8987.4	9366.6	9563.5	9760.4	9829.2
35°	7980.4	8528.9	9076.6	9599.1	10120.9	10497.6	10874.4	11055.9
37.5°	8241.3	8939.6	9638.0	10423.1	11208.2	11850.7	12492.3	12675.4
40°	8481.9	9380.4	10278.1	11368.6	12459.1	13478.3	14496.7	14695.2
42.5°	8715.2	9802.5	10889.8	12377.3	13864.8	15229.1	16593.5	17109.6
45°	8863.5	10178.4	11492.5	13454.0	15415.5	17288.7	19161.0	19594.5
47.5°	8901.6	10446.6	11991.6	14421.4	16851.1	19055.7	21259.4	21816.0
50°	8768.7	10585.9	12403.2	15609.9	18815.9	21060.9	23305.1	23762.1
52.5°	8431.7	10541.4	12651.1	16531.1	20411.1	22787.4	25163.7	25578.5
55°	7890.4	10270.8	12651.1	17289.5	21927.0	24391.6	26855.4	27485.7
57.5°	7127.2	9753.9	12380.5	17795.8	23211.1	25888.0	28564.9	29131.2
60°	6350.3	9138.9	11926.8	18075.3	24223.9	27059.5	29895.2	30556.3
62.5°	5596.8	8303.6	11009.7	17782.1	24554.4	27548.1	30540.9	31492.1
65°	4875.7	7376.0	9876.2	17066.7	24256.3	27686.6	31116.2	31968.5
67.5°	4247.0	6600.6	8954.2	15867.6	22780.9	26577.5	30373.2	31435.4
70°	3361.5	5527.1	7692.8	13741.6	19790.5	24236.8	28683.2	29994.1
72.5°	2506.7	4343.4	6179.3	10809.6	15439.8	20552.9	25665.2	27314.8
75°	1893.4	3469.2	5045.1	8544.3	12043.5	16372.3	20701.2	22908.9
77.5°	1324.7	2506.7	3688.0	6298.4	8908.9	11305.4	13701.9	14878.3
80°	930.1	1585.5	2240.2	3496.0	4751.0	5813.9	6876.1	6791.8
82.5°	567.9	843.4	1118.1	1516.7	1915.3	2172.1	2429.0	2417.6
85°	329.7	401.0	471.5	584.1	696.8	824.0	951.2	845.8
87.5°	116.7	116.7	116.7	133.7	150.7	207.4	264.1	278.7
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-CA8-330-722-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)