

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: P510515

Luminaire Tested: **CTN-CA10-630-722-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510515
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-CA10-630-722-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 78139 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

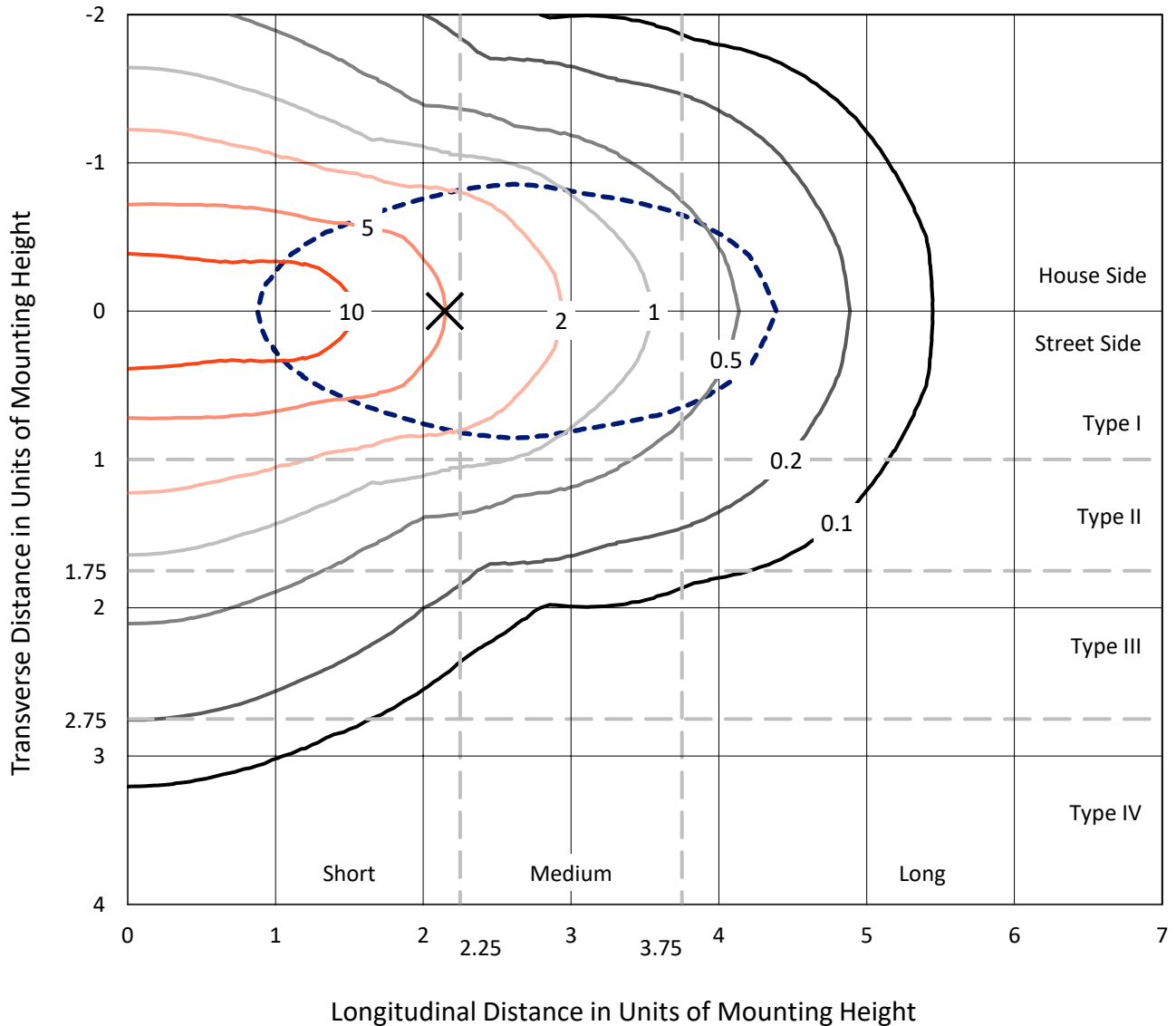
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

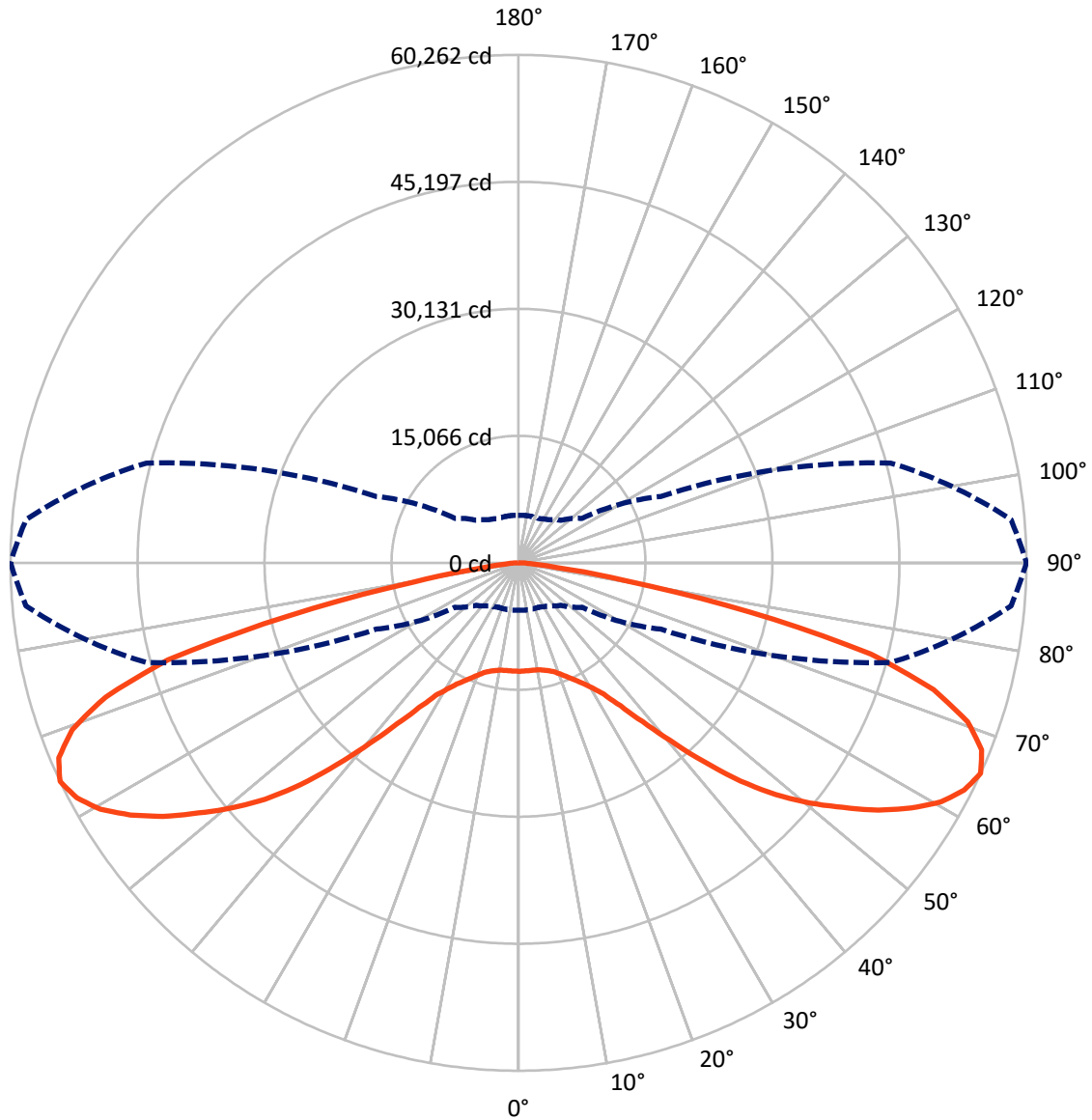
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.5 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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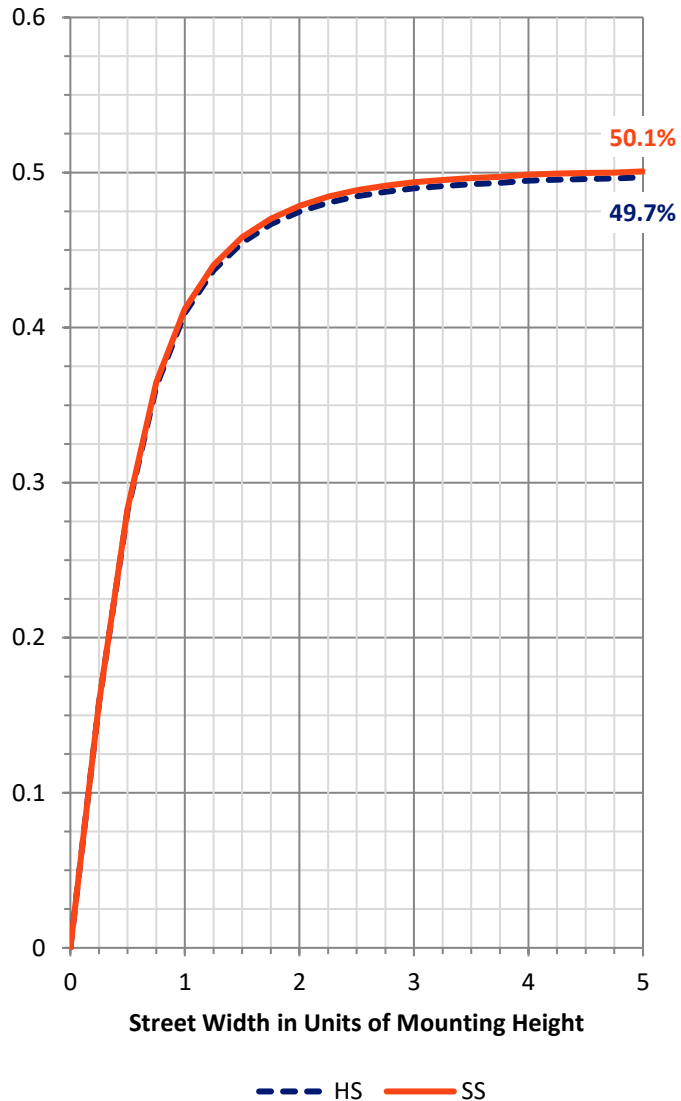
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	39069.5	0.0	39069.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	39069.5	0.0	39069.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	78139.0	0.0	78139.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1221.7	1.6
10°-20°	3605.0	4.6
20°-30°	5938.4	7.6
30°-40°	8700.4	11.1
40°-50°	12864.5	16.5
50°-60°	16874.9	21.6
60°-70°	17605.3	22.5
70°-80°	10122.1	13.0
80°-90°	1206.7	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°	78139.0	100.0
0°-180°	78139.0	100.0

Coefficient of Utilization

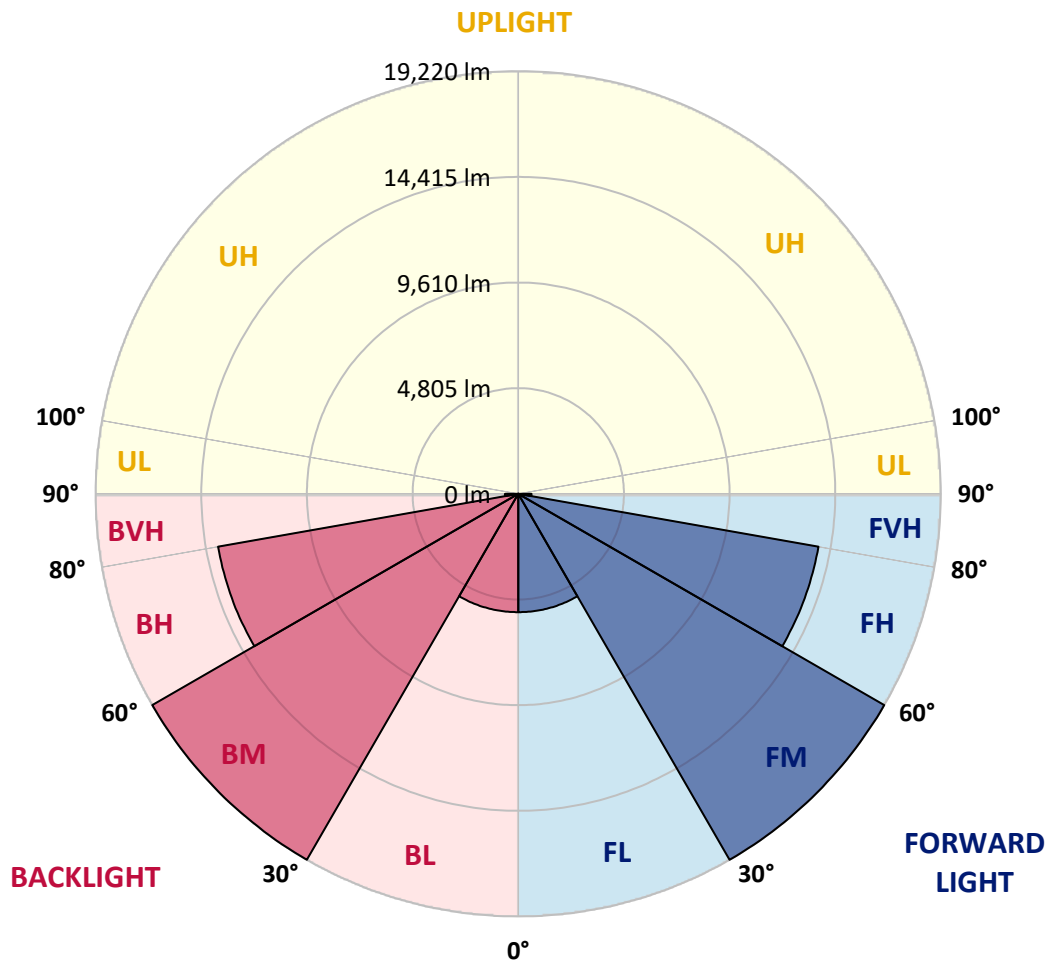


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5382.5	6.9			
FM (30°-60°)	19219.9	24.6			
FH (60°-80°)	13863.7	17.7			G5
FVH (80°-90°)	603.3	0.8			G4/750
BL (0°-30°)	5382.5	6.9	B5		
BM (30°-60°)	19219.9	24.6	B5		
BH (60°-80°)	13863.7	17.7	B5		G5
BVH (80°-90°)	603.3	0.8			G4/750
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°	12873.2	12873.2	12873.2	12873.2	12873.2	12873.2	12873.2	12873.2	12873.2	12873.2	12873.2
2.5°	12870.1	12861.0	12857.9	12853.3	12861.0	12867.1	12882.3	12896.1	12893.0	12890.0	12893.0
5°	12798.3	12802.9	12804.4	12806.0	12812.1	12816.7	12838.0	12859.4	12856.4	12853.3	12868.6
7.5°	12697.5	12697.5	12694.5	12691.4	12703.6	12714.3	12735.7	12757.1	12773.9	12789.2	12813.6
10°	12550.9	12544.8	12543.3	12541.8	12555.5	12567.7	12607.4	12647.1	12680.7	12712.8	12754.0
12.5°	12372.2	12370.7	12373.8	12376.8	12405.8	12434.8	12502.0	12569.2	12636.4	12703.6	12763.2
15°	12159.9	12141.6	12156.9	12170.6	12218.0	12263.8	12393.6	12523.4	12625.8	12726.6	12842.6
17.5°	11836.2	11817.8	11840.7	11862.1	11956.8	12051.5	12234.8	12416.5	12609.0	12801.4	12967.9
20°	11345.9	11345.9	11404.0	11462.0	11622.4	11782.7	12034.7	12285.2	12544.8	12804.4	13045.7
22.5°	10823.6	10808.3	10932.0	11055.7	11248.2	11439.1	11756.8	12074.4	12418.0	12760.2	13091.6
25°	10234.1	10260.0	10415.8	10570.1	10840.4	11109.2	11500.2	11889.6	12321.8	12754.0	13213.7
27.5°	9736.2	9740.8	9928.6	10116.5	10455.5	10793.1	11268.0	11743.0	12269.9	12796.8	13375.6
30°	9221.5	9305.5	9504.1	9701.1	10079.8	10458.6	11032.8	11605.6	12230.2	12854.8	13560.4
32.5°	8826.0	8845.8	9070.3	9293.3	9688.9	10084.4	10751.8	11419.2	12169.1	12919.0	13777.3
35°	8453.3	8485.4	8694.6	8903.9	9316.2	9727.0	10458.6	11188.6	12085.1	12980.1	14012.5
37.5°	8121.9	8161.6	8360.2	8558.7	8955.8	9352.9	10128.7	10904.5	11955.3	13006.0	14270.6
40°	7879.1	7912.7	8080.7	8248.7	8607.6	8964.9	9777.4	10588.4	11773.6	12958.7	14473.7
42.5°	7703.4	7718.7	7854.6	7990.6	8311.3	8632.0	9436.9	10240.2	11536.8	12833.5	14631.0
45°	7465.2	7498.8	7633.2	7766.1	8054.7	8341.8	9078.0	9814.1	11185.6	12555.5	14632.6
47.5°	7288.0	7309.4	7436.2	7561.4	7830.2	8099.0	8760.3	9421.6	10788.5	12153.8	14467.6
50°	7158.2	7147.5	7265.1	7381.2	7608.7	7834.8	8424.3	9012.3	10296.7	11581.1	14055.3
52.5°	6973.4	6985.6	7080.3	7175.0	7372.0	7567.5	8095.9	8622.8	9751.5	10878.6	13386.3
55°	6726.0	6782.5	6861.9	6939.8	7112.4	7285.0	7759.9	8234.9	9206.2	10176.0	12525.0
57.5°	6483.2	6524.4	6591.6	6658.8	6794.7	6929.1	7376.6	7824.1	8632.0	9439.9	11437.6
60°	6284.6	6295.3	6338.1	6379.3	6483.2	6587.0	6956.6	7326.2	8031.8	8735.9	10353.2
62.5°	6028.0	6031.1	6060.1	6089.1	6153.3	6215.9	6506.1	6794.7	7396.5	7998.2	9275.0
65°	5626.4	5650.8	5678.3	5704.3	5747.0	5788.3	6009.7	6231.2	6681.7	7132.2	8161.6
67.5°	5220.1	5198.8	5230.8	5262.9	5269.0	5275.1	5443.1	5611.1	5980.7	6350.3	7178.1
70°	4558.8	4575.6	4572.6	4568.0	4542.0	4514.5	4632.1	4749.7	4945.2	5139.2	5737.9
72.5°	3495.9	3473.0	3414.9	3355.4	3327.9	3300.4	3437.8	3573.8	3717.3	3860.9	4293.1
75°	2136.6	2202.3	2322.9	2442.1	2487.9	2533.7	2526.1	2516.9	2504.7	2492.5	3031.6
77.5°	1447.8	1483.0	1510.4	1536.4	1603.6	1669.3	1745.6	1822.0	1820.5	1819.0	2158.0
80°	920.9	893.4	905.7	917.9	956.1	994.2	1110.3	1224.9	1256.9	1287.5	1521.1
82.5°	577.3	581.9	597.2	610.9	568.1	525.4	615.5	704.1	780.4	855.3	963.7
85°	374.2	424.6	416.9	409.3	358.9	308.5	387.9	467.3	504.0	539.1	580.4
87.5°	120.7	140.5	145.1	148.1	148.1	146.6	163.4	180.2	186.3	190.9	206.2
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°	12873.2	12873.2	12873.2	12873.2	12873.2	12873.2	12873.2	12873.2
2.5°	12894.5	12879.3	12864.0	12859.4	12854.8	12851.8	12848.7	12845.7
5°	12882.3	12879.3	12876.2	12864.0	12851.8	12850.3	12848.7	12853.3
7.5°	12838.0	12838.0	12838.0	12851.8	12865.5	12859.4	12851.8	12861.0
10°	12793.8	12830.4	12867.1	12877.7	12888.4	12896.1	12903.7	12911.3
12.5°	12822.8	12885.4	12946.5	12981.6	13016.7	13035.1	13051.9	13056.4
15°	12958.7	13038.1	13117.5	13164.9	13210.7	13241.2	13271.8	13279.4
17.5°	13134.3	13256.5	13377.2	13445.9	13514.6	13549.7	13583.3	13572.6
20°	13285.5	13453.5	13621.5	13768.1	13914.8	13995.7	14075.1	14084.3
22.5°	13421.5	13704.0	13986.5	14175.9	14363.8	14507.3	14650.9	14666.2
25°	13671.9	14041.5	14411.1	14713.5	15015.9	15147.2	15277.1	15353.4
27.5°	13952.9	14447.8	14942.6	15347.3	15752.0	15952.1	16150.6	16161.3
30°	14264.5	14892.2	15518.4	16062.1	16604.2	16848.6	17091.4	17219.7
32.5°	14634.1	15431.3	16227.0	16941.8	17656.5	18027.6	18398.7	18528.6
35°	15043.4	16077.3	17109.8	18094.8	19078.4	19788.5	20498.7	20840.8
37.5°	15535.2	16851.6	18168.1	19648.0	21127.9	22339.0	23548.6	23893.8
40°	15988.8	17682.5	19374.7	21430.3	23486.0	25407.3	27327.0	27701.2
42.5°	16428.6	18478.2	20527.7	23331.8	26135.8	28707.7	31279.6	32252.4
45°	16708.1	19186.8	21664.0	25361.5	29058.9	32589.9	36119.4	36936.5
47.5°	16779.9	19692.3	22604.8	27185.0	31765.2	35920.9	40075.0	41124.2
50°	16529.4	19955.0	23380.6	29425.5	35468.8	39700.8	43931.3	44792.6
52.5°	15894.1	19871.0	23848.0	31162.0	38475.9	42955.4	47434.8	48216.7
55°	14873.9	19360.9	23848.0	32591.5	41333.4	45979.3	50623.7	51811.9
57.5°	13435.2	18386.5	23337.9	33546.0	43754.1	48800.1	53846.2	54913.7
60°	11970.6	17227.4	22482.6	34072.9	45663.2	51008.5	56353.9	57600.1
62.5°	10550.2	15652.8	20753.8	33520.0	46286.3	51929.5	57571.1	59364.1
65°	9191.0	13904.1	18617.1	32171.5	45724.3	52190.6	58655.5	60262.1
67.5°	8005.8	12442.5	16879.1	29911.1	42943.1	50099.8	57255.0	59257.2
70°	6336.5	10418.9	14501.2	25903.6	37306.1	45687.6	54069.1	56540.2
72.5°	4725.3	8187.6	11648.3	20376.5	29104.8	38743.2	48380.1	51489.6
75°	3569.2	6539.7	9510.2	16106.4	22702.5	30862.6	39022.7	43184.4
77.5°	2497.0	4725.3	6952.0	11872.8	16793.6	21311.2	25828.8	28046.4
80°	1753.3	2988.8	4222.8	6590.1	8955.8	10959.5	12961.7	12802.9
82.5°	1070.6	1589.9	2107.6	2859.0	3610.4	4094.6	4578.7	4557.3
85°	621.6	756.0	888.9	1101.1	1313.4	1553.2	1793.0	1594.4
87.5°	219.9	219.9	219.9	252.0	284.1	391.0	497.9	525.4
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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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)