

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: P510545

Luminaire Tested: **CTN-CA10-630-740-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510545
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-CA10-630-740-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 95877 lumens
Efficiency: N/A
Efficacy: 151.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

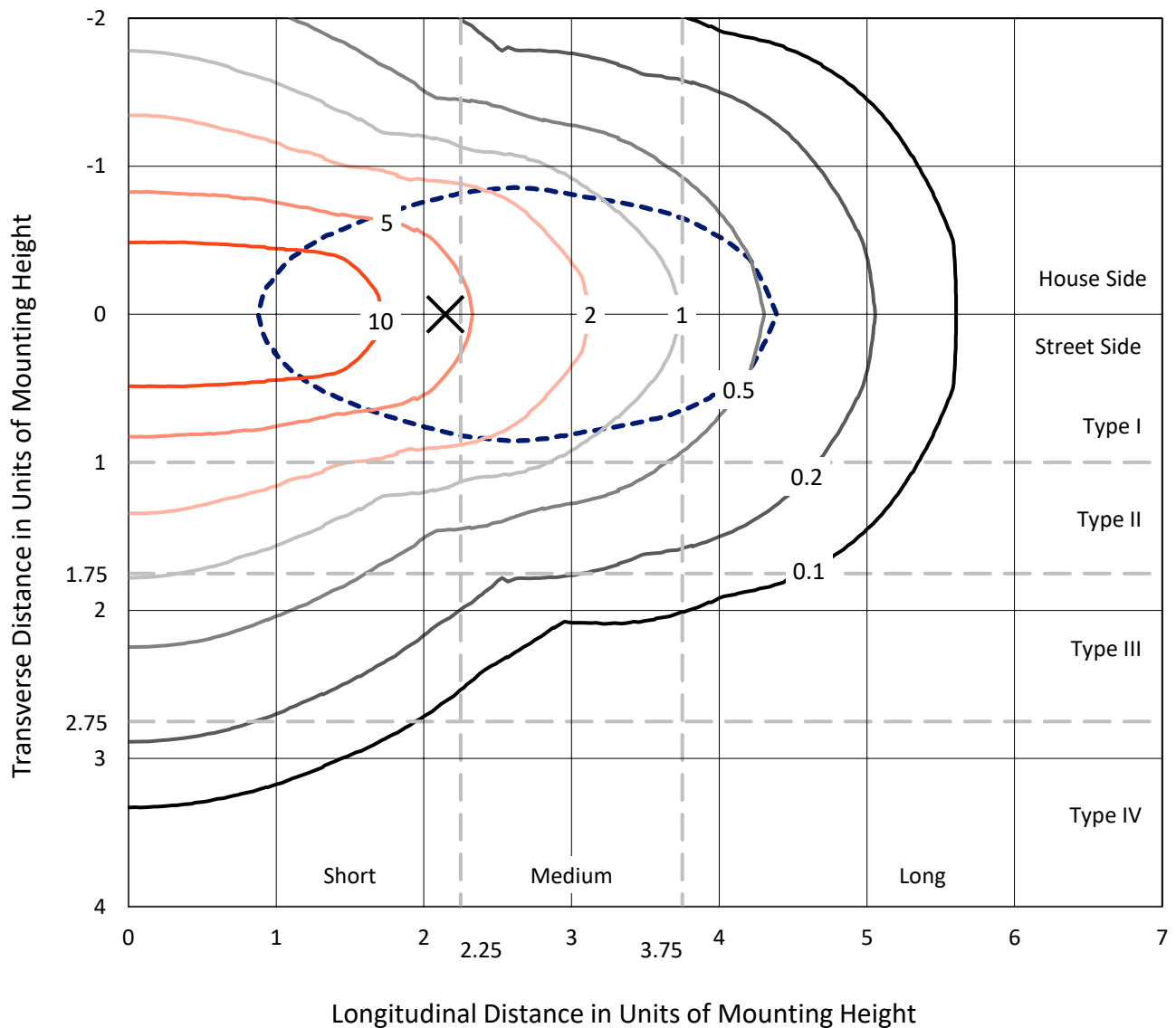
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

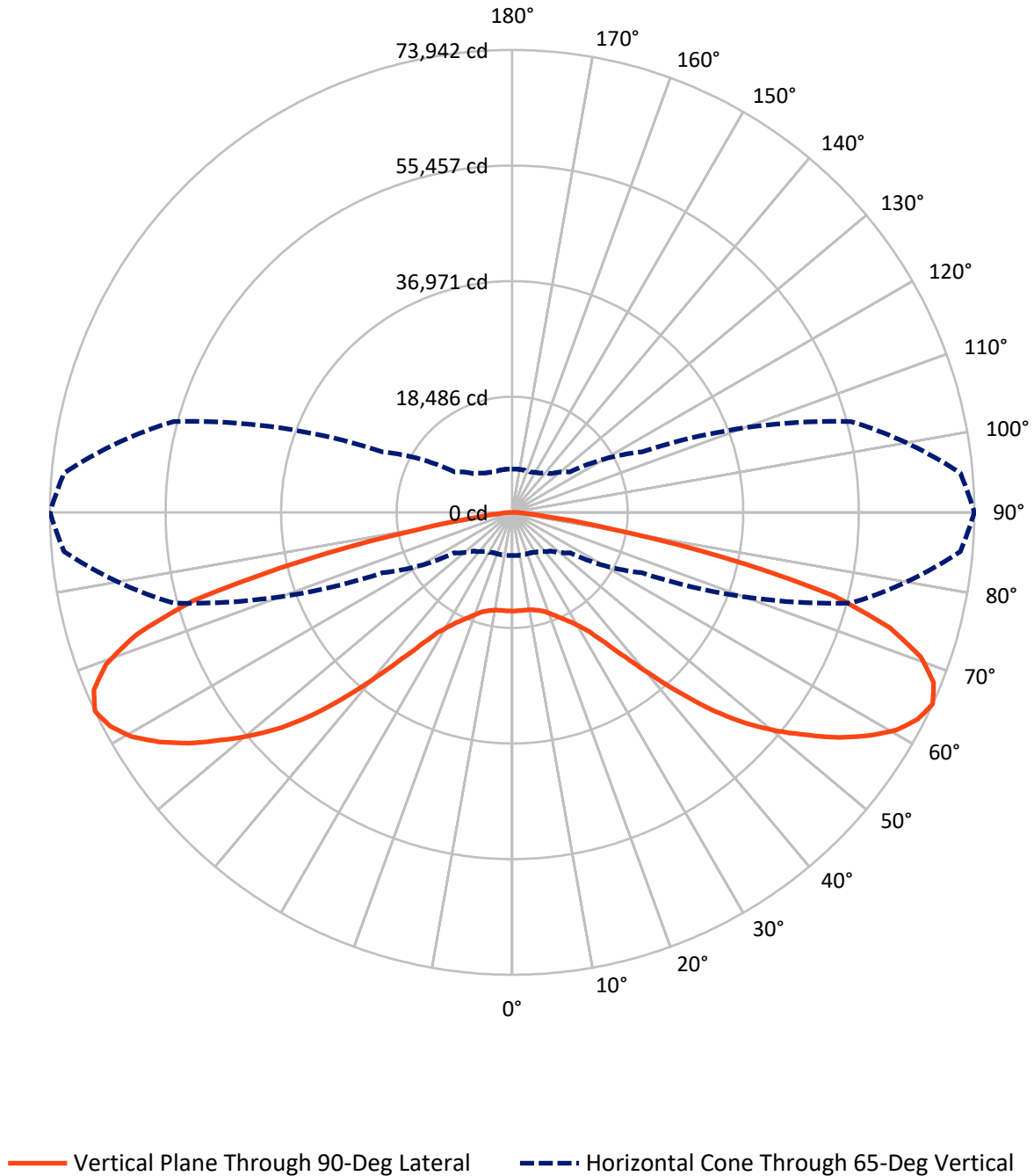
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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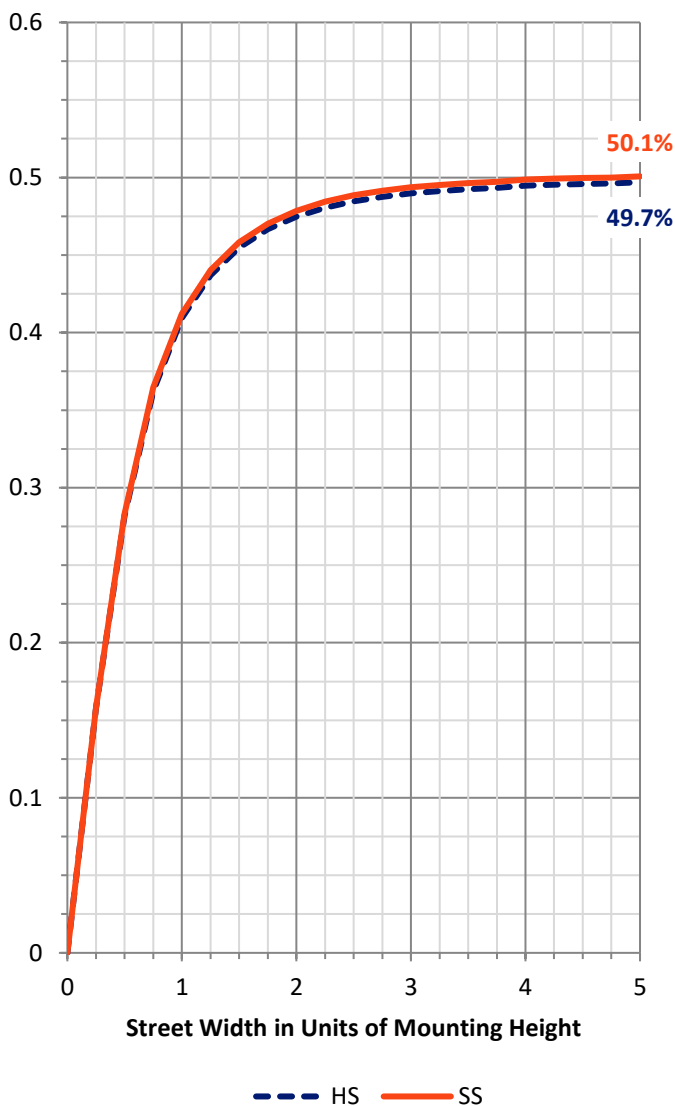
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	47938.5	0.0	47938.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	47938.5	0.0	47938.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	95877.0	0.0	95877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1499.0	1.6
10°-20°	4423.4	4.6
20°-30°	7286.4	7.6
30°-40°	10675.5	11.1
40°-50°	15784.8	16.5
50°-60°	20705.7	21.6
60°-70°	21601.9	22.5
70°-80°	12419.9	13.0
80°-90°	1480.6	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°	95877.0	100.0
0°-180°	95877.0	100.0

Coefficient of Utilization

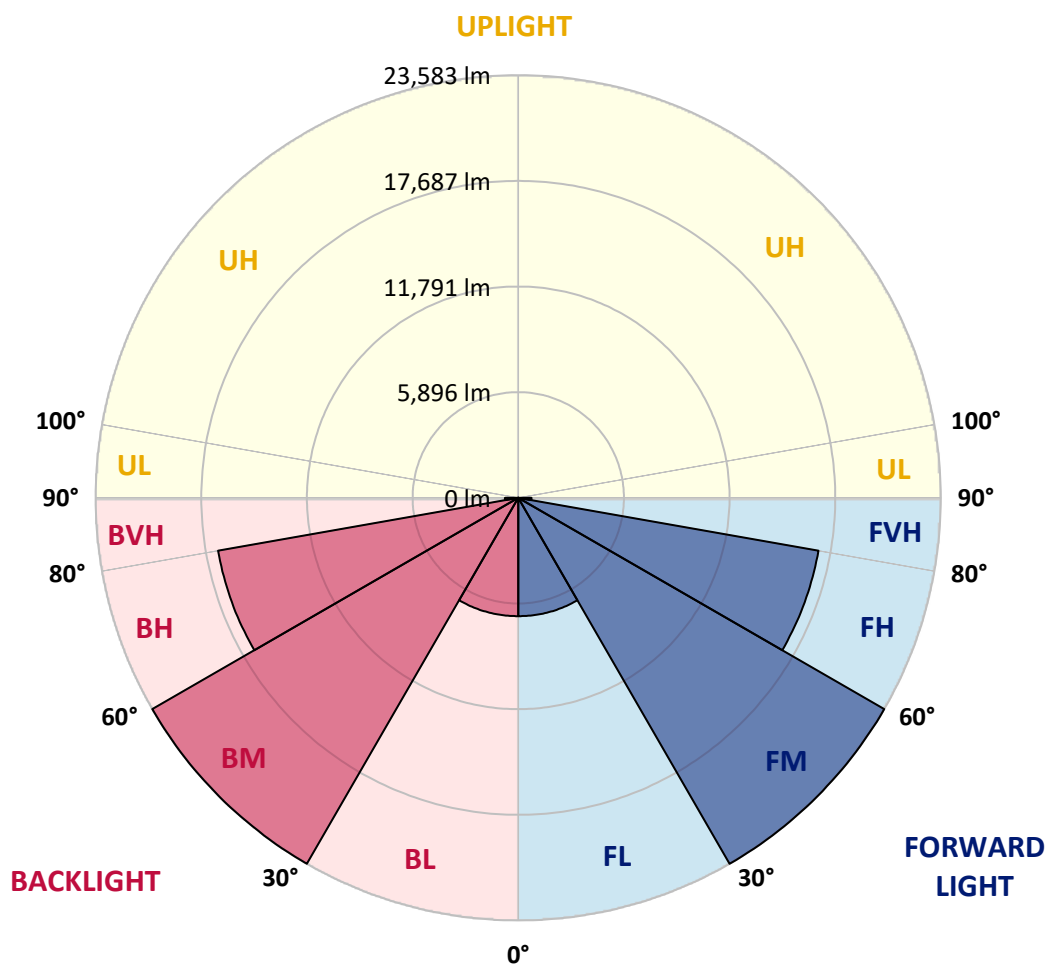


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6604.4	6.9			
FM (30°-60°)	23583.0	24.6			
FH (60°-80°)	17010.9	17.7			G5
FVH (80°-90°)	740.3	0.8			G4/750
BL (0°-30°)	6604.4	6.9	B5		
BM (30°-60°)	23583.0	24.6	B5		
BH (60°-80°)	17010.9	17.7	B5		G5
BVH (80°-90°)	740.3	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°	15795.5	15795.5	15795.5	15795.5	15795.5	15795.5	15795.5	15795.5	15795.5	15795.5	15795.5
2.5°	15791.7	15780.5	15776.7	15771.1	15780.5	15788.0	15806.7	15823.6	15819.8	15816.1	15819.8
5°	15703.6	15709.2	15711.1	15713.0	15720.5	15726.1	15752.4	15778.6	15774.8	15771.1	15789.8
7.5°	15579.9	15579.9	15576.2	15572.5	15587.4	15600.6	15626.8	15653.0	15673.6	15692.4	15722.4
10°	15400.0	15392.6	15390.7	15388.8	15405.7	15420.7	15469.4	15518.1	15559.3	15598.7	15649.3
12.5°	15180.8	15178.9	15182.7	15186.4	15222.0	15257.6	15340.1	15422.5	15505.0	15587.4	15660.5
15°	14920.3	14897.8	14916.6	14933.4	14991.5	15047.7	15207.0	15366.3	15491.9	15615.6	15758.0
17.5°	14523.0	14500.6	14528.7	14554.9	14671.1	14787.3	15012.1	15235.1	15471.3	15707.4	15911.6
20°	13921.5	13921.5	13992.7	14063.9	14260.7	14457.5	14766.7	15074.0	15392.6	15711.1	16007.2
22.5°	13280.6	13261.9	13413.7	13565.5	13801.6	14035.8	14425.6	14815.4	15237.0	15656.8	16063.4
25°	12557.3	12589.1	12780.3	12969.5	13301.2	13631.0	14110.8	14588.6	15119.0	15649.3	16213.3
27.5°	11946.4	11952.0	12182.5	12413.0	12829.0	13243.1	13825.9	14408.7	15055.2	15701.8	16412.0
30°	11314.9	11417.9	11661.5	11903.3	12368.0	12832.7	13537.4	14240.1	15006.5	15773.0	16638.7
32.5°	10829.5	10853.9	11129.3	11402.9	11888.3	12373.6	13192.5	14011.5	14931.6	15851.7	16904.8
35°	10372.3	10411.6	10668.3	10925.1	11431.0	11935.1	12832.7	13728.5	14828.5	15926.6	17193.4
37.5°	9965.6	10014.3	10258.0	10501.6	10988.8	11476.0	12428.0	13379.9	14669.2	15958.5	17510.1
40°	9667.7	9708.9	9915.0	10121.2	10561.5	11000.0	11997.0	12992.0	14446.2	15900.4	17759.3
42.5°	9452.2	9470.9	9637.7	9804.5	10198.0	10591.5	11579.1	12564.8	14155.8	15746.7	17952.4
45°	9159.8	9201.1	9366.0	9529.0	9883.2	10235.5	11138.7	12041.9	13724.7	15405.7	17954.2
47.5°	8942.4	8968.7	9124.2	9277.9	9607.7	9937.5	10748.9	11560.3	13237.5	14912.8	17751.8
50°	8783.2	8770.0	8914.3	9056.8	9336.0	9613.3	10336.7	11058.1	12634.1	14210.1	17245.9
52.5°	8556.4	8571.4	8687.6	8803.8	9045.5	9285.4	9933.8	10580.3	11965.1	13348.1	16425.1
55°	8252.8	8322.2	8419.6	8515.2	8726.9	8938.7	9521.5	10104.3	11296.1	12486.1	15368.2
57.5°	7954.9	8005.5	8087.9	8170.4	8337.2	8502.1	9051.1	9600.2	10591.5	11582.8	14033.9
60°	7711.3	7724.4	7776.9	7827.5	7954.9	8082.3	8535.8	8989.3	9855.1	10718.9	12703.4
62.5°	7396.4	7400.2	7435.8	7471.4	7550.1	7626.9	7983.0	8337.2	9075.5	9813.8	11380.4
65°	6903.6	6933.6	6967.3	6999.2	7051.6	7102.2	7374.0	7645.7	8198.5	8751.3	10014.3
67.5°	6405.1	6378.9	6418.2	6457.6	6465.1	6472.6	6678.7	6884.9	7338.4	7791.8	8807.5
70°	5593.7	5614.3	5610.6	5605.0	5573.1	5539.4	5683.7	5828.0	6067.8	6305.8	7040.4
72.5°	4289.5	4261.3	4190.1	4117.0	4083.3	4049.6	4218.2	4385.0	4561.2	4737.3	5267.6
75°	2621.6	2702.2	2850.3	2996.4	3052.7	3108.9	3099.5	3088.3	3073.3	3058.3	3719.8
77.5°	1776.5	1819.6	1853.3	1885.2	1967.6	2048.2	2141.9	2235.6	2233.7	2231.9	2647.9
80°	1130.0	1096.3	1111.2	1126.2	1173.1	1219.9	1362.4	1502.9	1542.3	1579.7	1866.4
82.5°	708.3	714.0	732.7	749.6	697.1	644.6	755.2	863.9	957.6	1049.4	1182.5
85°	459.1	521.0	511.6	502.2	440.4	378.5	476.0	573.4	618.4	661.5	712.1
87.5°	148.0	172.4	178.0	181.8	181.8	179.9	200.5	221.1	228.6	234.2	253.0
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°	15795.5	15795.5	15795.5	15795.5	15795.5	15795.5	15795.5	15795.5
2.5°	15821.7	15802.9	15784.2	15778.6	15773.0	15769.2	15765.5	15761.7
5°	15806.7	15802.9	15799.2	15784.2	15769.2	15767.3	15765.5	15771.1
7.5°	15752.4	15752.4	15752.4	15769.2	15786.1	15778.6	15769.2	15780.5
10°	15698.0	15743.0	15788.0	15801.1	15814.2	15823.6	15832.9	15842.3
12.5°	15733.6	15810.4	15885.4	15928.5	15971.6	15994.1	16014.7	16020.3
15°	15900.4	15997.8	16095.3	16153.4	16209.6	16247.1	16284.5	16293.9
17.5°	16115.9	16265.8	16413.9	16498.2	16582.5	16625.6	16666.8	16653.7
20°	16301.4	16507.5	16713.7	16893.6	17073.5	17172.8	17270.2	17281.5
22.5°	16468.2	16814.9	17161.6	17393.9	17624.4	17800.6	17976.7	17995.5
25°	16775.5	17229.0	17682.5	18053.6	18424.6	18585.7	18745.0	18838.7
27.5°	17120.3	17727.5	18334.6	18831.2	19327.8	19573.3	19816.9	19830.0
30°	17502.6	18272.8	19041.1	19708.2	20373.5	20673.3	20971.3	21128.7
32.5°	17956.1	18934.3	19910.6	20787.6	21664.6	22120.0	22575.4	22734.7
35°	18458.3	19727.0	20993.8	22202.5	23409.3	24280.7	25152.0	25571.8
37.5°	19061.7	20677.1	22292.4	24108.3	25924.1	27410.1	28894.3	29317.8
40°	19618.3	21696.5	23772.8	26295.1	28817.5	31174.9	33530.4	33989.5
42.5°	20158.0	22672.8	25187.6	28628.2	32068.8	35224.5	38380.2	39573.9
45°	20500.9	23542.3	26581.9	31118.7	35655.5	39988.0	44318.7	45321.3
47.5°	20589.0	24162.6	27736.2	33356.2	38976.1	44075.1	49172.2	50459.6
50°	20281.7	24484.9	28688.2	36105.2	43520.4	48713.1	53903.9	54960.8
52.5°	19502.1	24381.8	29261.6	38235.9	47210.2	52706.5	58202.7	59162.2
55°	18250.3	23756.0	29261.6	39989.9	50716.3	56416.9	62115.5	63573.5
57.5°	16485.1	22560.4	28635.7	41161.1	53686.5	59878.0	66069.5	67379.4
60°	14688.0	21138.1	27586.3	41807.6	56029.0	62587.8	69146.6	70675.7
62.5°	12945.2	19206.0	25465.0	41129.3	56793.5	63717.8	70640.1	72840.1
65°	11277.4	17060.4	22843.3	39474.6	56103.9	64038.2	71970.6	73942.0
67.5°	9823.2	15267.0	20710.8	36701.1	52691.5	61472.8	70252.2	72708.9
70°	7775.0	12784.0	17793.1	31783.9	45774.8	56059.0	66343.1	69375.2
72.5°	5798.0	10046.2	14292.6	25002.1	35711.7	47538.1	59362.7	63178.1
75°	4379.4	8024.2	11669.0	19762.6	27856.1	37868.6	47881.1	52987.6
77.5°	3063.9	5798.0	8530.2	14568.0	20605.9	26149.0	31692.1	34413.1
80°	2151.3	3667.3	5181.4	8086.1	10988.8	13447.4	15904.1	15709.2
82.5°	1313.6	1950.8	2586.0	3508.0	4430.0	5024.0	5618.1	5591.8
85°	762.7	927.6	1090.6	1351.1	1611.6	1905.8	2200.0	1956.4
87.5°	269.8	269.8	269.8	309.2	348.6	479.7	610.9	644.6
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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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)