

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: ALL-PRO

Report Number: P22773-R2

Luminaire Tested: **MST18920L**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P22773-R2
Test Lab: INNOVATION CENTER P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: ALL-PRO
Catalog Number: MST18920L
Description:
Light Source: 5000K LED

Ballast/Driver: (1) ELECTRONIC DRIVER

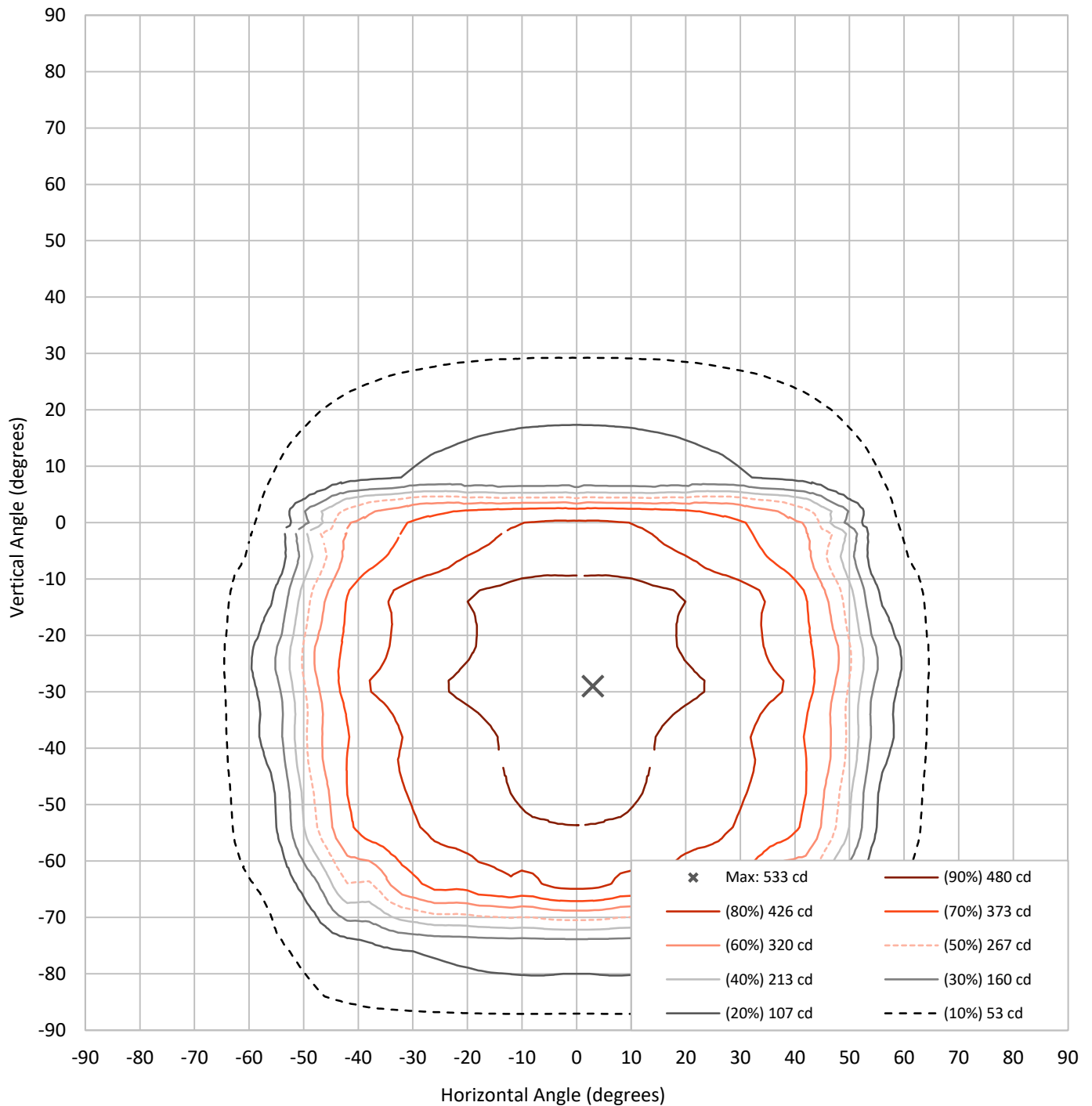
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	1015.4 lumens	Max Intensity:	533 candela
Efficiency:	N/A	Max Intensity Angle:	3°H x -29°V
Efficacy:	34.0 lumens/watt		
Luminous Opening:	(L: 0' x W: 0.4' x H: 0.25')		
Beam Angle (50%):	99.5°H x 74.8°V	Field Angle (10%):	128.5°H x 116.2°V
Beam Lumens:	779.7 lumens	Field Lumens:	972.6 lumens
Beam Efficiency:	76.8%	Field Efficiency:	95.8%
Input Watts (W):	29.9		
Input Voltage (V):	120.10		
Input Current (A _{in}):	0.268		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	25.5		
Test Distance:	25 FT		



REPORT NUMBER: P22773-R2
CATALOG NUMBER: MST18920L

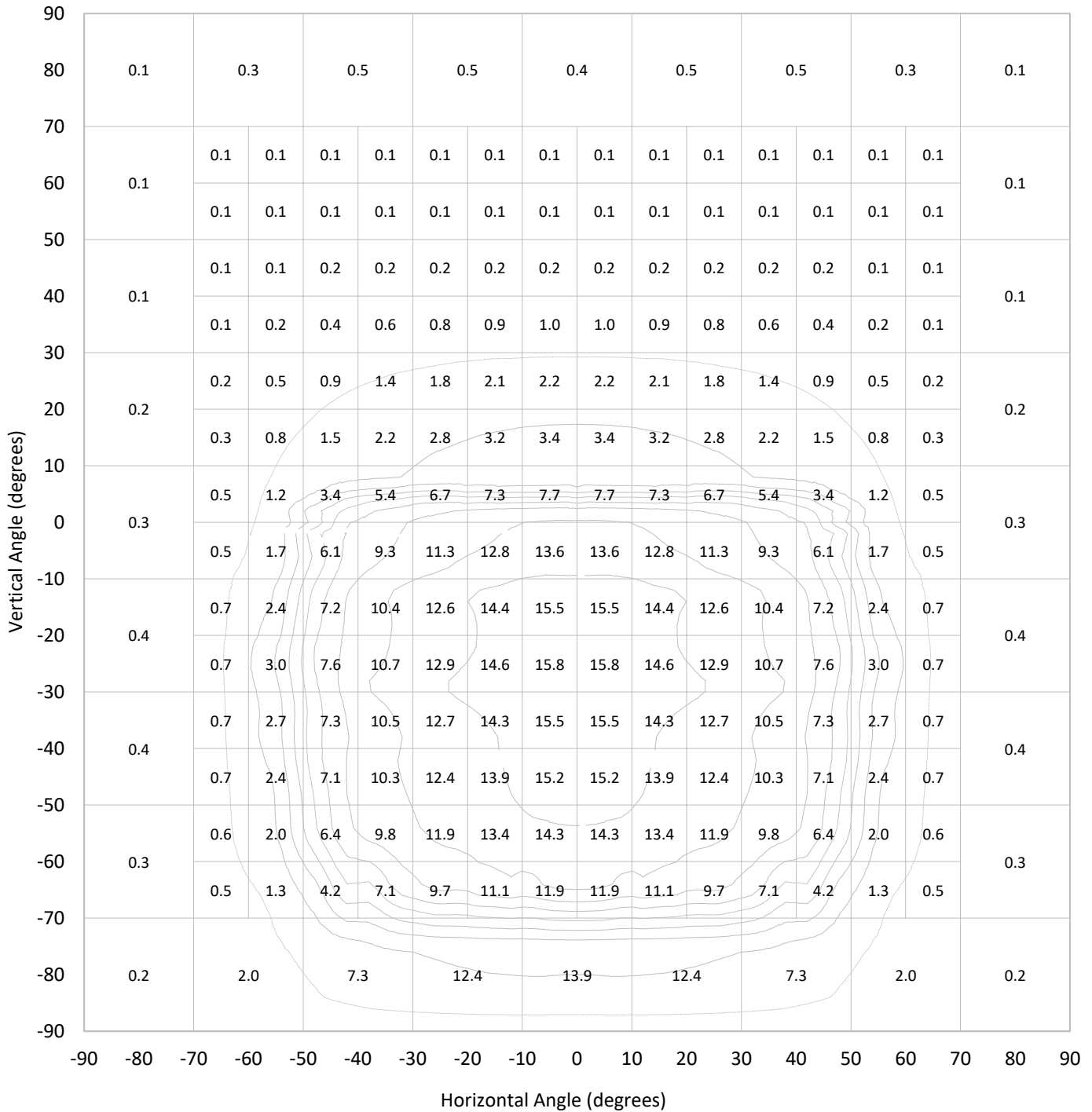
Iso-Candela Plot





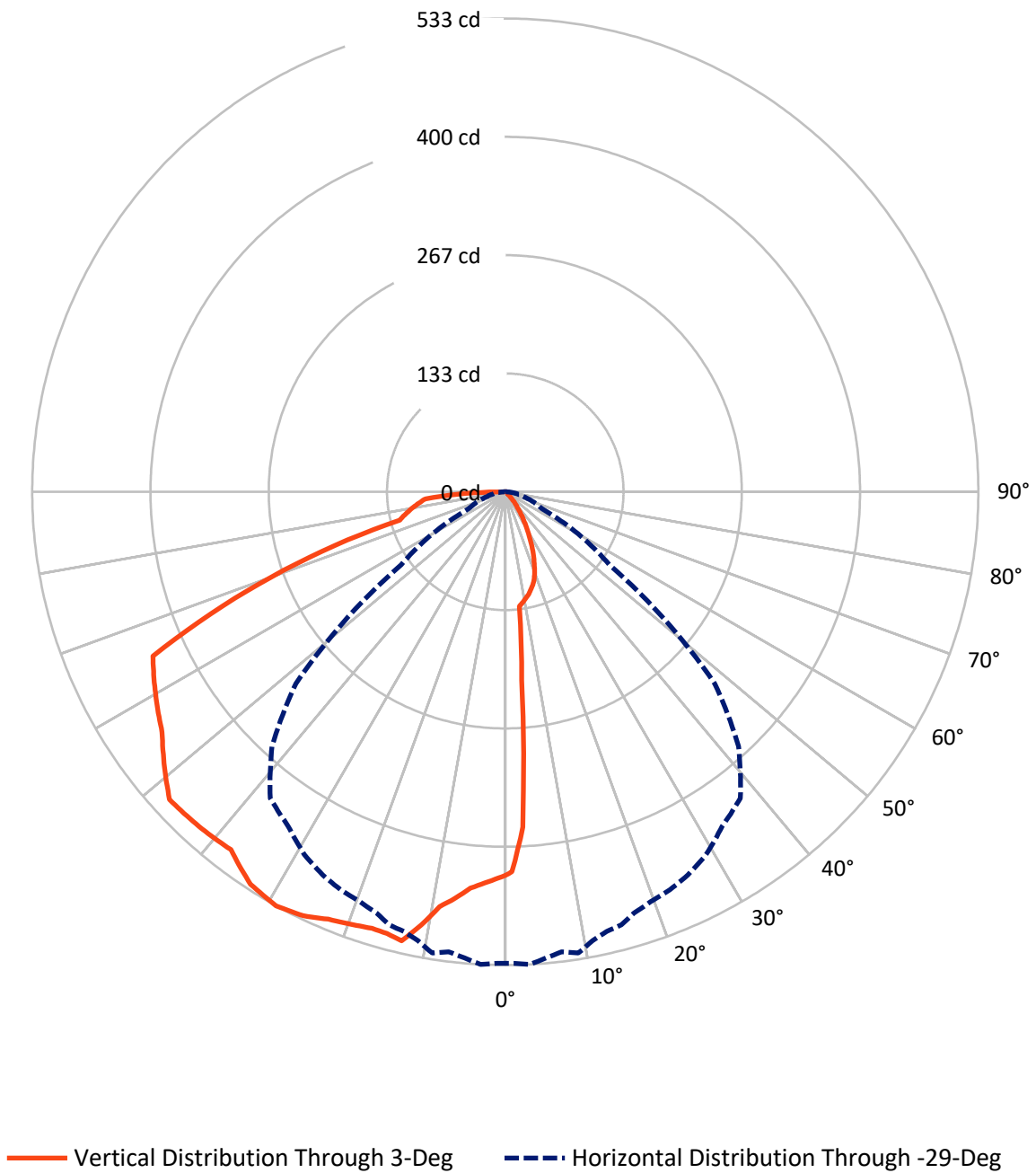
REPORT NUMBER: P22773-R2
 CATALOG NUMBER: MST18920L

Lumen Table



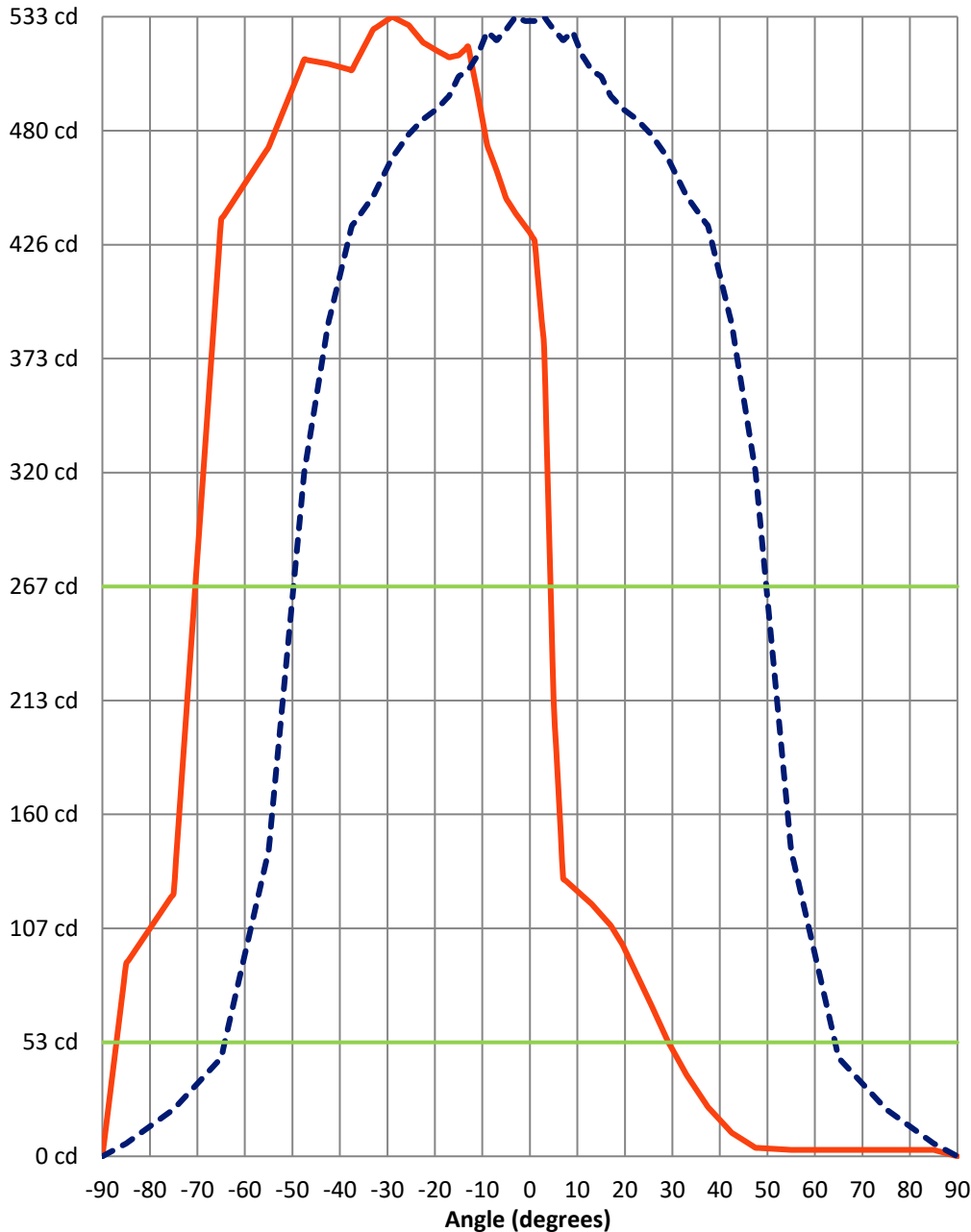
REPORT NUMBER: P22773-R2
CATALOG NUMBER: MST18920L

Luminous Intensity Polar Plot



REPORT NUMBER: P22773-R2
 CATALOG NUMBER: MST18920L

Luminous Intensity Plot



Beam:
 H Angle: 99.5°
 V Angle: 74.8°
 Lumens: 779.7
 Efficiency: 76.8%

Field:
 H Angle: 128.5°
 V Angle: 116.2°
 Lumens: 972.6
 Efficiency: 95.8%

Spill:
 Lumens: 42.8
 Efficiency: 4.2%

— Vertical Distribution through 3-Deg
 - - Horizontal Distribution through -29-Deg



REPORT NUMBER: P22773-R2
 CATALOG NUMBER: MST18920L

FIELD
 BEAM

CANDELA DISTRIBUTION:

	0°	1°	3°	5°	7°	9°	11°	13°	15°	17°	19.5°
90°	0	0	0	0	0	0	0	0	0	0	0
85°	3	3	3	4	5	5	5	6	6	6	6
75°	3	3	3	3	3	3	3	4	4	5	5
65°	3	3	3	3	3	3	3	3	3	3	4
55°	3	3	3	3	3	3	3	3	3	3	3
47.5°	4	4	4	4	4	4	4	4	4	4	4
42.5°	11	11	11	11	11	11	11	11	11	11	10
37.5°	24	23	23	23	23	23	23	23	23	22	22
33°	38	38	38	38	38	37	37	37	37	37	36
29°	54	54	54	54	54	54	53	53	53	52	51
25.5°	70	71	71	70	70	70	70	69	69	68	67
22.5°	85	86	85	85	85	85	84	84	83	82	81
19.5°	100	100	99	99	99	98	98	97	96	95	94
17°	108	108	108	108	107	107	106	105	104	103	102
15°	113	113	113	113	112	112	111	110	109	108	106
13°	118	118	118	117	117	117	116	115	114	113	111
11°	122	123	122	122	122	121	120	119	118	117	115
9°	126	127	126	126	126	125	124	123	122	121	119
7°	130	131	130	130	129	129	128	127	126	124	122
5°	203	226	213	215	212	214	214	211	210	241	220
3°	370	380	378	379	376	375	374	370	367	364	360
1°	428	428	428	427	425	423	421	419	414	410	404
0°	432	432	432	431	429	427	425	422	418	414	409
-1°	435	435	435	433	432	430	428	426	421	417	412
-3°	440	440	441	439	436	435	433	431	426	422	418
-5°	445	446	448	449	446	443	440	436	432	428	424
-7°	456	458	461	463	460	454	453	445	440	435	432
-9°	476	473	473	474	471	467	466	456	450	446	439
-11°	496	498	497	500	499	497	494	483	477	473	464
-13°	520	521	519	521	518	517	513	503	497	492	483
-15°	519	518	515	516	514	512	508	497	492	487	479
-17°	515	517	514	516	511	511	506	495	490	485	475
-19.5°	520	521	517	517	511	513	508	497	493	485	474
-22.5°	518	520	521	521	514	515	506	497	494	486	475
-25.5°	524	528	529	525	519	522	512	503	501	493	484
-29°	531	531	533	527	522	526	515	508	505	496	490
-33°	525	525	527	518	512	514	499	496	492	484	479
-37.5°	501	505	508	502	500	500	488	485	478	471	464
-42.5°	504	510	511	502	499	496	484	481	478	470	466
-47.5°	515	515	513	503	498	494	483	479	473	469	461
-55°	472	471	472	470	470	470	465	462	460	456	451
-65°	439	439	438	432	417	402	410	421	397	409	387
-75°	123	123	123	123	123	123	122	122	121	121	119
-85°	90	90	90	92	92	92	92	91	91	90	88
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P22773-R2
 CATALOG NUMBER: MST18920L

CANDELA DISTRIBUTION (continued):

	22.5°	25.5°	29°	33°	37.5°	42.5°	47.5°	55°	65°	75°	85°
90°	0	0	0	0	0	0	0	0	0	0	0
85°	6	6	6	6	6	6	6	6	6	6	6
75°	5	5	5	5	5	5	6	6	6	6	6
65°	4	5	5	5	5	5	5	5	6	6	6
55°	3	3	4	5	5	5	5	5	5	5	6
47.5°	4	4	4	5	5	5	6	5	6	6	6
42.5°	10	10	9	9	9	9	8	7	6	6	6
37.5°	21	21	20	19	17	16	14	11	8	6	6
33°	35	34	32	30	28	25	21	16	10	7	6
29°	50	48	46	43	39	35	29	21	13	7	6
25.5°	66	63	60	57	51	45	38	27	16	8	6
22.5°	79	77	73	68	62	54	45	32	18	9	6
19.5°	92	89	85	80	72	63	53	38	21	10	6
17°	99	97	92	87	79	70	58	42	24	11	6
15°	104	101	97	91	84	74	63	46	26	11	6
13°	108	106	102	96	88	79	67	49	28	12	6
11°	112	110	106	100	93	83	71	52	30	12	6
9°	116	113	109	104	96	86	74	54	31	13	6
7°	120	117	113	107	100	90	78	57	33	14	6
5°	263	261	262	221	216	180	109	59	35	14	6
3°	351	344	343	321	301	263	159	61	36	15	6
1°	395	386	376	359	334	288	247	62	37	16	6
0°	400	391	381	365	339	314	185	63	38	16	6
-1°	405	396	384	368	343	318	263	64	39	16	6
-3°	410	401	388	373	349	324	262	66	40	17	6
-5°	417	407	394	378	356	329	228	68	41	17	6
-7°	426	414	403	386	365	334	237	70	42	18	6
-9°	434	425	415	399	382	345	256	82	43	19	6
-11°	458	449	441	421	401	361	280	98	43	19	6
-13°	475	465	454	437	411	371	296	107	44	19	6
-15°	469	460	448	432	409	374	305	113	45	20	6
-17°	467	458	447	430	408	375	309	126	45	20	6
-19.5°	465	457	446	431	409	378	320	133	45	21	6
-22.5°	467	458	447	433	411	380	333	154	46	21	6
-25.5°	475	466	453	438	418	385	332	159	46	21	6
-29°	485	478	467	449	435	389	320	143	46	22	6
-33°	473	464	455	432	411	374	306	131	46	22	6
-37.5°	459	452	439	421	399	367	312	136	45	22	6
-42.5°	460	454	441	426	407	371	309	120	45	21	6
-47.5°	451	444	434	421	402	371	283	102	44	20	7
-55°	442	435	424	411	396	360	266	97	42	19	7
-65°	382	390	362	335	245	256	140	61	37	16	6
-75°	117	114	111	106	97	82	67	49	29	13	6
-85°	86	83	79	74	67	58	49	35	20	10	6
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P22773-R2
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CANDELA DISTRIBUTION (continued):

	90°
90°	0
85°	0
75°	0
65°	0
55°	0
47.5°	0
42.5°	0
37.5°	0
33°	0
29°	0
25.5°	0
22.5°	0
19.5°	0
17°	0
15°	0
13°	0
11°	0
9°	0
7°	0
5°	0
3°	0
1°	0
0°	0
-1°	0
-3°	0
-5°	0
-7°	0
-9°	0
-11°	0
-13°	0
-15°	0
-17°	0
-19.5°	0
-22.5°	0
-25.5°	0
-29°	0
-33°	0
-37.5°	0
-42.5°	0
-47.5°	0
-55°	0
-65°	0
-75°	0
-85°	0
-90°	0

(END OF REPORT)