

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or
Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: LUMARK

Report Number: P210009

Luminaire Tested: **MPXL-T2-1000**

Issue Date:

Test Information

Test Method: LM-46-04
Report Number: P210009
DATA PRORATED FROM REPORT 764999
Test Lab:
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: MPXL-T2-1000
Description: EAGLE SPORTS FLOODLIGHT - 2H x 2V
Light Source: 1000 WATT PULSE METAL HALIDE, CLEAR, BT-56, UNIVERSAL
Ballast/Driver: -

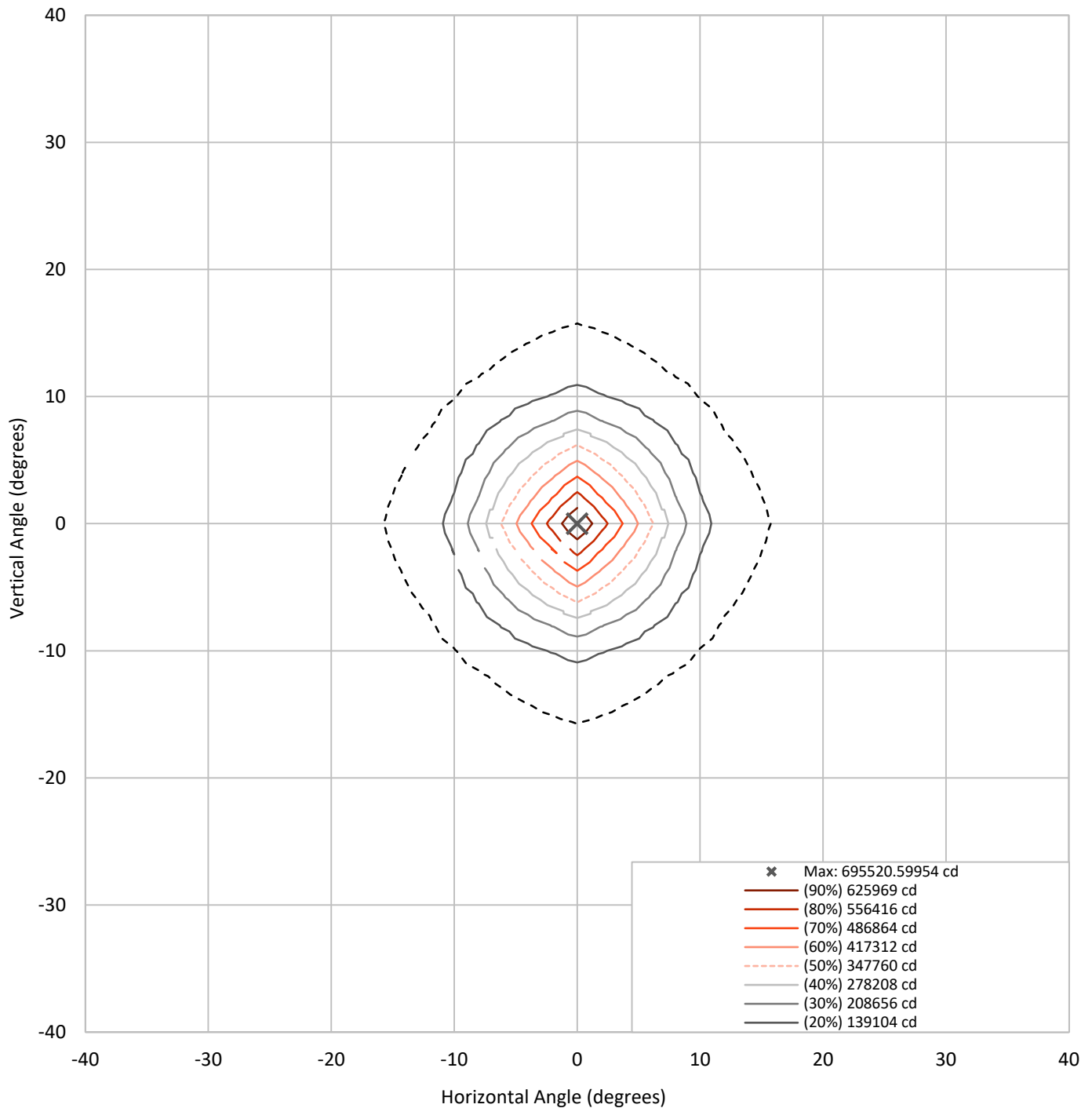
Summary

Lumens per Lamp:	110000 (1 lamp)	NEMA Type:	3H x 3V
Luminaire Lumens:	80051.7 lumens	Max Intensity:	695520.6 candela
Efficiency:	72.8%	Max Intensity Angle:	0°H x 0°V
Efficacy:	80.1 lumens/watt		
Luminous Opening:	Point Source (0' x 0' x 0')		
Beam Angle (50%):	12.4°H x 12.4°V	Field Angle (10%):	31.5°H x 31.5°V
Beam Lumens:	14454.8 lumens	Field Lumens:	39052.6 lumens
Beam Efficiency:	18.1%	Field Efficiency:	48.8%
Input Watts (W):	1000		
Input Voltage (V):	NR		
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:	25 FT		



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Iso-Candela Plot





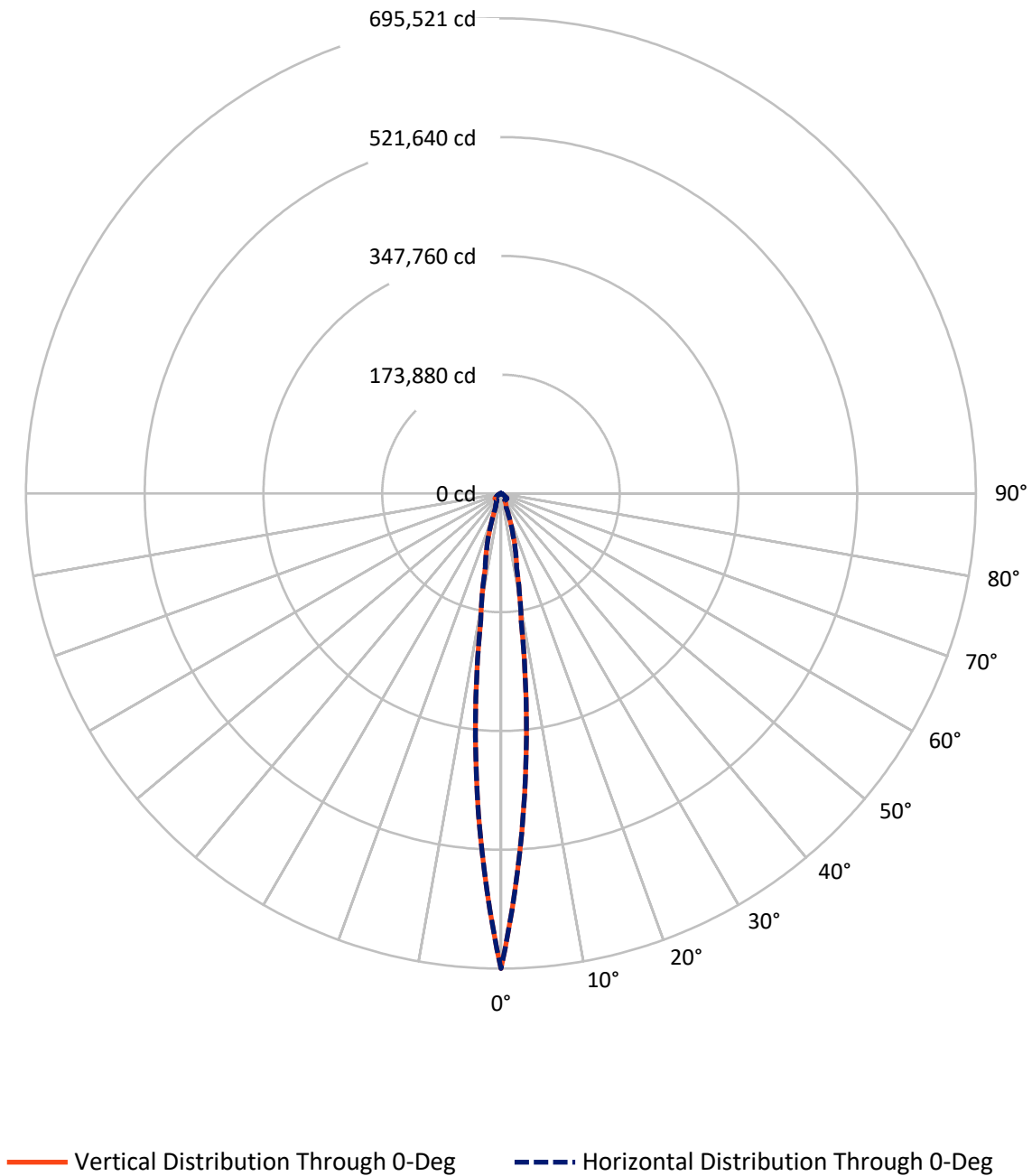
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Lumen Table

90	0.0	0.1	4.7	10.4	12.0	10.4	4.7	0.1	0.0										
80	0.0	0.1	4.7	10.4	12.0	10.4	4.7	0.1	0.0										
70	0.0	0.5	2.4	7.0	18.1	36.3	57.1	71.8	71.8	57.1	36.3	18.1	7.0	2.4	0.5	0.0			
60		1.8	9.3	34.5	92.3	159.6	208.7	237.0	237.0	208.7	159.6	92.3	34.5	9.3	1.8				
50	1.5	4.2	28.0	103.2	209.3	283.5	319.6	337.9	337.9	319.6	283.5	209.3	103.2	28.0	4.2	1.5			
40		9.4	64.6	180.7	271.8	305.8	323.3	337.0	337.0	323.3	305.8	271.8	180.7	64.6	9.4				
30	2.9	16.9	100.9	221.1	276.4	310.1	387.4	489.3	489.3	387.4	310.1	276.4	221.1	100.8	16.9	2.9			
20		25.0	123.8	233.9	274.1	364.0	835.7	1858.3	1858.3	835.7	364.0	274.1	233.9	123.8	25.0				
10	3.1	30.5	136.5	239.9	277.1	446.9	1809.3	7814.7	7814.7	1809.3	446.9	277.1	239.9	136.4	30.5	3.1			
0		30.5	136.5	239.9	277.1	446.9	1809.3	7814.7	7814.7	1809.3	446.9	277.1	239.9	136.4	30.5				
-10	2.9	25.0	123.8	233.9	274.1	364.0	835.7	1858.3	1858.3	835.7	364.0	274.1	233.9	123.8	25.0	2.9			
-20		16.9	100.9	221.1	276.4	310.1	387.4	489.3	489.3	387.4	310.1	276.4	221.1	100.8	16.9				
-30	1.5	9.4	64.6	180.7	271.8	305.8	323.3	337.0	337.0	323.3	305.8	271.8	180.7	64.6	9.4	1.5			
-40		4.2	28.0	103.2	209.3	283.5	319.6	337.9	337.9	319.6	283.5	209.3	103.2	28.0	4.2				
-50	0.0	1.8	9.3	34.5	92.2	159.6	208.6	237.0	237.0	208.6	159.6	92.2	34.5	9.3	1.8	0.0			
-60		0.5	2.4	7.0	18.1	36.3	57.1	71.8	71.8	57.1	36.3	18.1	7.0	2.4	0.5				
-70	0.0	0.5	2.4	7.0	18.1	36.3	57.1	71.8	71.8	57.1	36.3	18.1	7.0	2.4	0.5	0.0			
-80		0.1	4.7	10.4	12.0	10.4	4.7	0.1	0.0										
-90	0.0	0.1	4.7	10.4	12.0	10.4	4.7	0.1	0.0										

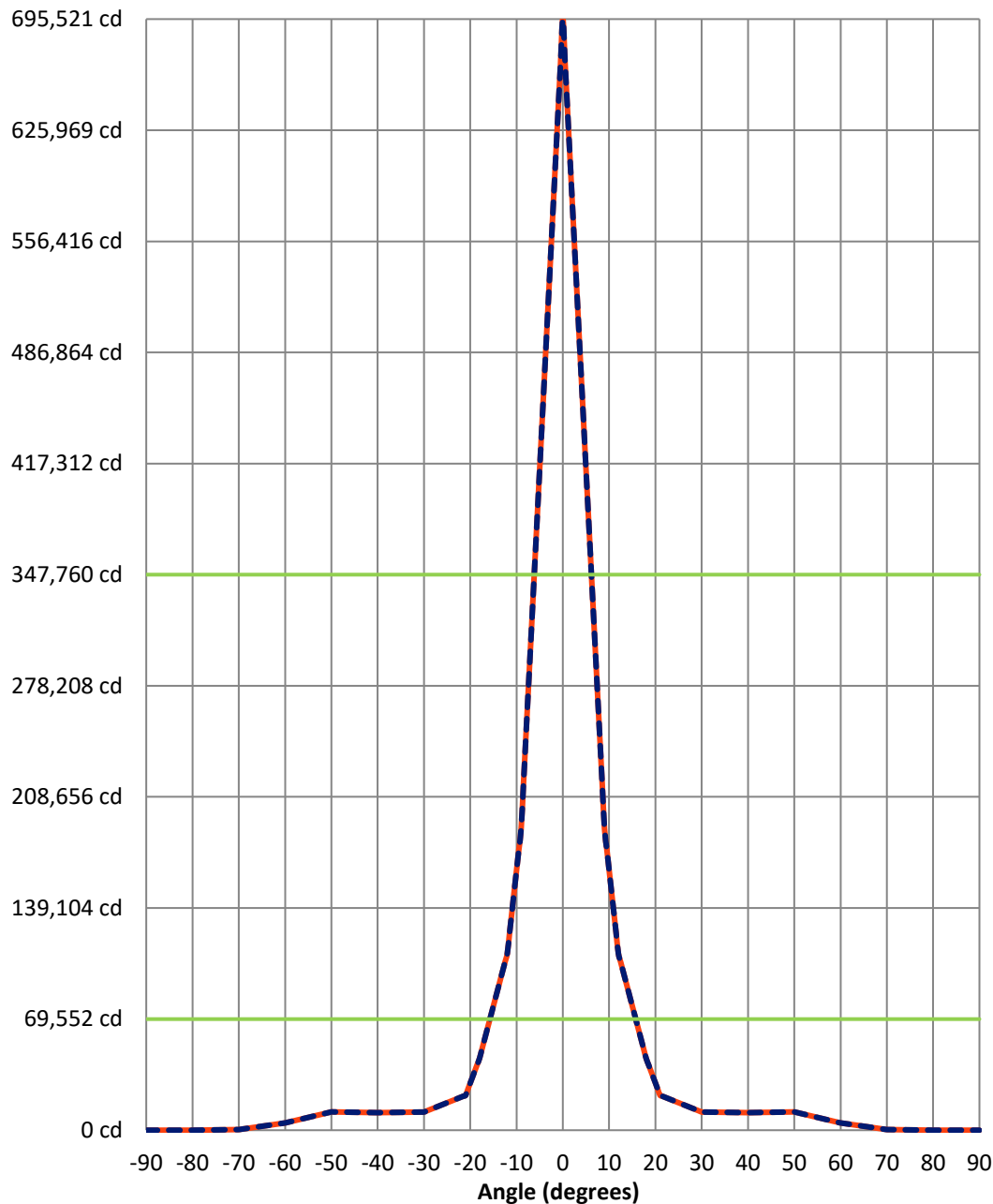
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 12.4°
 V Angle: 12.4°
 Lumens: 14454.8
 Efficiency: 18.1%

Field:
 H Angle: 31.5°
 V Angle: 31.5°
 Lumens: 39052.6
 Efficiency: 48.8%

Spill:
 Lumens: 40999.1
 Efficiency: 51.2%

— Vertical Distribution through 0-Deg
 - - Horizontal Distribution through 0-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-80°	-70°	-60°	-50°	-40°	-30°	-27°	-24°	-21°	-18°
90°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	17	221	326	340	353	366	375
60°	0	0	0	167	370	687	1674	2040	2399	2765	3133
50°	0	0	17	370	1226	4135	8313	8894	9477	10060	10432
40°	0	0	221	687	4135	9698	11452	11345	11238	11131	11079
30°	0	0	326	1673	8312	11452	11020	10952	10885	10817	10853
27°	0	0	339	2037	8894	11345	10952	11040	11128	11216	11639
24°	0	0	353	2399	9477	11238	10885	11128	11372	11616	12423
21°	0	0	366	2762	10060	11131	10817	11216	11616	12013	13211
18°	0	0	375	3132	10432	11079	10853	11639	12423	13211	16206
15°	0	0	381	3509	10700	11054	10940	12228	13519	14802	20294
12°	0	0	387	3884	10968	11029	11026	12818	14609	16399	24396
9°	0	0	392	4176	11177	11011	11114	13379	15638	17899	28885
6°	0	0	395	4303	11269	11005	11203	13876	16545	19226	34261
3°	0	0	397	4429	11358	10999	11292	14380	17456	20549	39593
0°	0	0	400	4558	11452	10993	11381	14876	18372	21867	44940
-3°	0	0	397	4429	11358	10999	11292	14380	17456	20549	39593
-6°	0	0	395	4303	11269	11005	11203	13876	16545	19226	34261
-9°	0	0	392	4176	11177	11011	11114	13379	15638	17899	28885
-12°	0	0	387	3884	10968	11029	11026	12818	14609	16399	24396
-15°	0	0	381	3509	10700	11054	10940	12228	13519	14802	20294
-18°	0	0	375	3132	10432	11079	10853	11639	12423	13211	16206
-21°	0	0	366	2762	10060	11131	10817	11216	11616	12013	13211
-24°	0	0	353	2399	9477	11238	10885	11128	11372	11616	12423
-27°	0	0	339	2037	8894	11345	10952	11040	11128	11216	11639
-30°	0	0	326	1673	8312	11452	11020	10952	10885	10817	10853
-40°	0	0	221	687	4135	9696	11452	11344	11238	11131	11079
-50°	0	0	17	370	1225	4135	8312	8894	9477	10060	10432
-60°	0	0	0	167	370	687	1673	2036	2399	2762	3132
-70°	0	0	0	0	17	221	326	339	353	366	375
-80°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	-15°	-12°	-9°	-6°	-3°	0°	3°	6°	9°	12°	15°
90°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
70°	381	387	392	397	397	400	397	397	392	387	381
60°	3509	3884	4177	4304	4430	4558	4430	4304	4177	3884	3509
50°	10700	10968	11177	11269	11360	11452	11360	11269	11177	10968	10700
40°	11054	11029	11011	11005	10999	10993	10999	11005	11011	11029	11054
30°	10940	11028	11114	11203	11292	11381	11292	11203	11114	11028	10940
27°	12228	12818	13379	13876	14380	14876	14380	13876	13379	12818	12228
24°	13519	14609	15638	16545	17456	18372	17456	16545	15638	14609	13519
21°	14802	16399	17899	19226	20549	21867	20549	19226	17899	16399	14802
18°	20294	24396	28885	34261	39593	44940	39593	34261	28885	24396	20294
15°	27885	35486	44256	55439	66623	77801	66623	55439	44256	35486	27885
12°	35486	46549	59624	76606	93689	110662	93689	76606	59624	46549	35486
9°	44256	59624	81792	117549	153291	188864	153291	117549	81792	59624	44256
6°	55439	76606	117548	197465	277446	357750	277446	197465	117549	76606	55439
3°	66623	93689	153291	277445	402243	526635	402243	277445	153291	93689	66623
0°	77801	110662	188864	357750	526635	695521	526635	357750	188864	110662	77801
-3°	66623	93689	153291	277445	402243	526635	402243	277446	153291	93689	66623
-6°	55439	76606	117549	197465	277446	357750	277446	197465	117548	76606	55439
-9°	44256	59624	81792	117549	153291	188864	153291	117549	81792	59624	44256
-12°	35486	46549	59624	76606	93689	110662	93689	76606	59624	46549	35486
-15°	27885	35486	44256	55439	66623	77801	66623	55439	44256	35486	27885
-18°	20294	24396	28885	34261	39593	44940	39593	34261	28885	24396	20294
-21°	14802	16399	17899	19226	20549	21867	20549	19226	17899	16399	14802
-24°	13519	14609	15638	16545	17456	18372	17456	16545	15638	14609	13519
-27°	12228	12818	13379	13876	14380	14876	14380	13876	13379	12818	12228
-30°	10940	11026	11114	11203	11292	11381	11292	11203	11114	11026	10940
-40°	11054	11029	11011	11005	10999	10993	10999	11005	11011	11029	11054
-50°	10700	10968	11177	11269	11358	11452	11358	11269	11177	10968	10700
-60°	3509	3884	4176	4303	4429	4558	4429	4303	4176	3884	3509
-70°	381	387	392	395	397	400	397	395	392	387	381
-80°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	18°	21°	24°	27°	30°	40°	50°	60°	70°	80°	90°
90°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
70°	375	366	353	340	326	221	17	0	0	0	0
60°	3133	2765	2399	2040	1674	687	371	167	0	0	0
50°	10432	10060	9477	8894	8313	4136	1226	370	17	0	0
40°	11079	11131	11238	11345	11452	9698	4136	687	221	0	0
30°	10853	10817	10885	10952	11020	11452	8314	1674	326	0	0
27°	11639	11216	11128	11040	10952	11345	8894	2040	340	0	0
24°	12423	11616	11372	11128	10885	11238	9477	2399	353	0	0
21°	13211	12013	11616	11216	10817	11131	10060	2765	366	0	0
18°	16206	13211	12423	11639	10853	11079	10433	3132	375	0	0
15°	20294	14802	13519	12228	10940	11054	10700	3509	381	0	0
12°	24396	16399	14609	12818	11028	11029	10968	3885	387	0	0
9°	28885	17899	15638	13379	11114	11011	11177	4177	392	0	0
6°	34261	19226	16545	13876	11203	11005	11269	4304	397	0	0
3°	39593	20549	17456	14380	11292	10999	11360	4430	397	0	0
0°	44940	21867	18372	14876	11381	10993	11452	4558	400	0	0
-3°	39593	20549	17456	14380	11292	10999	11360	4430	397	0	0
-6°	34261	19226	16545	13876	11203	11005	11269	4304	397	0	0
-9°	28885	17899	15638	13379	11114	11011	11177	4177	392	0	0
-12°	24396	16399	14609	12818	11028	11029	10968	3885	387	0	0
-15°	20294	14802	13519	12228	10940	11054	10700	3509	381	0	0
-18°	16206	13211	12423	11639	10853	11079	10433	3132	375	0	0
-21°	13211	12013	11616	11216	10817	11131	10060	2765	366	0	0
-24°	12423	11616	11372	11128	10885	11238	9477	2399	353	0	0
-27°	11639	11216	11128	11040	10952	11345	8894	2040	340	0	0
-30°	10853	10817	10885	10952	11020	11452	8312	1674	326	0	0
-40°	11079	11131	11238	11344	11452	9697	4135	687	221	0	0
-50°	10432	10060	9477	8894	8312	4135	1225	370	17	0	0
-60°	3132	2762	2399	2036	1673	687	370	167	0	0	0
-70°	375	366	353	339	326	221	17	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)