

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: P210011

Luminaire Tested: **MPXL-T3-1000**

Issue Date:

Test Information

Test Method: LM-46-04
Report Number: P210011
DATA PRORATED FROM REPORT 765037
Test Lab:
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: MPXL-T3-1000
Description: EAGLE SPORTS FLOODLIGHT - 3H x 3V
Light Source: 1000 WATT PULSE STARTE METAL HALIDE, CLEAR, BT-56, UNIVERSAL
Ballast/Driver: -

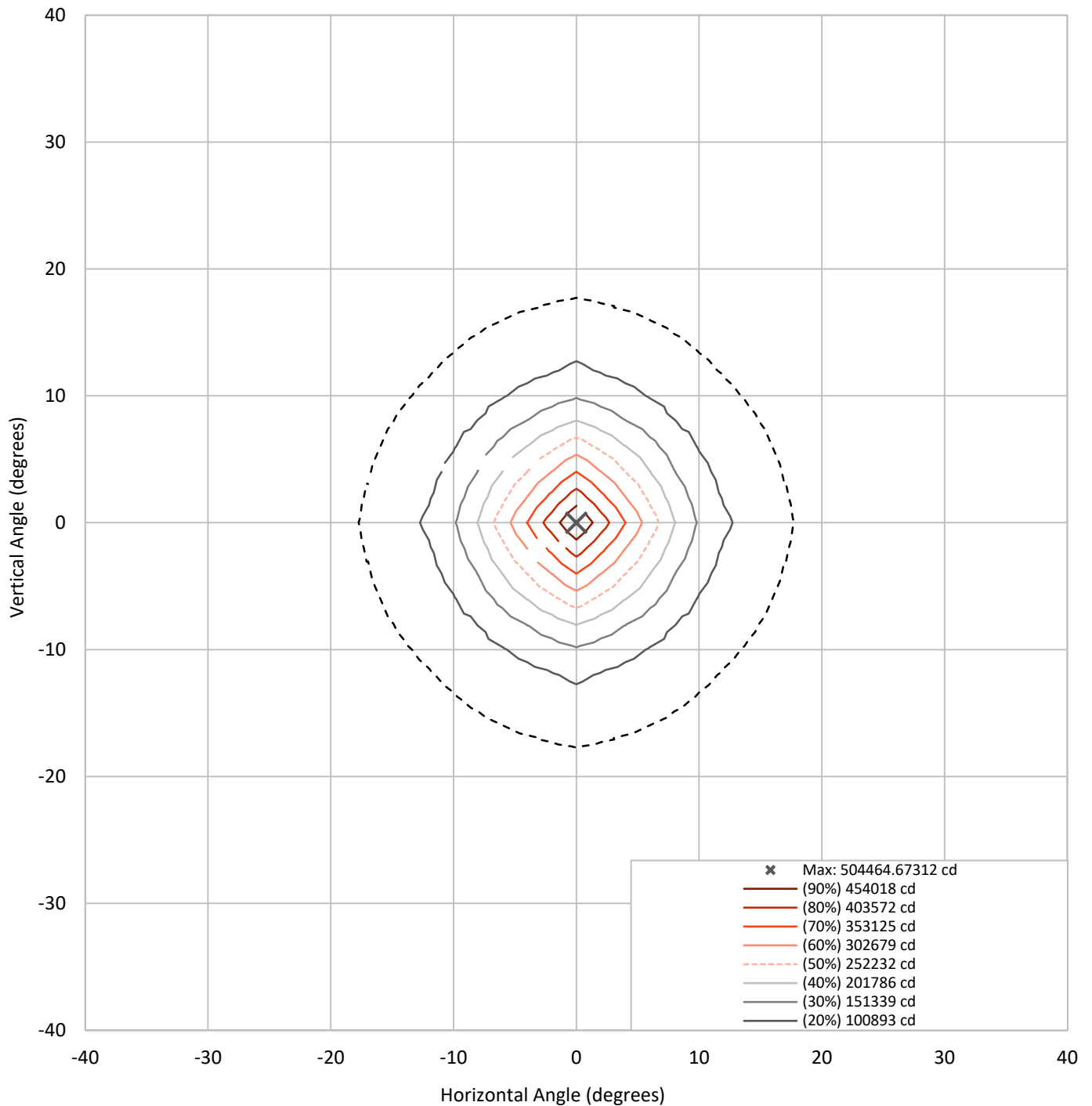
Summary

Lumens per Lamp:	111000 (1 lamp)	NEMA Type:	3H x 3V
Luminaire Lumens:	80566.4 lumens	Max Intensity:	504464.7 candela
Efficiency:	72.6%	Max Intensity Angle:	0°H x 0°V
Efficacy:	80.6 lumens/watt		
Luminous Opening:	Point Source (0' x 0' x 0')		
Beam Angle (50%):	13.4°H x 13.4°V	Field Angle (10%):	35.5°H x 35.5°V
Beam Lumens:	10934 lumens	Field Lumens:	37068.7 lumens
Beam Efficiency:	13.6%	Field Efficiency:	46.0%
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





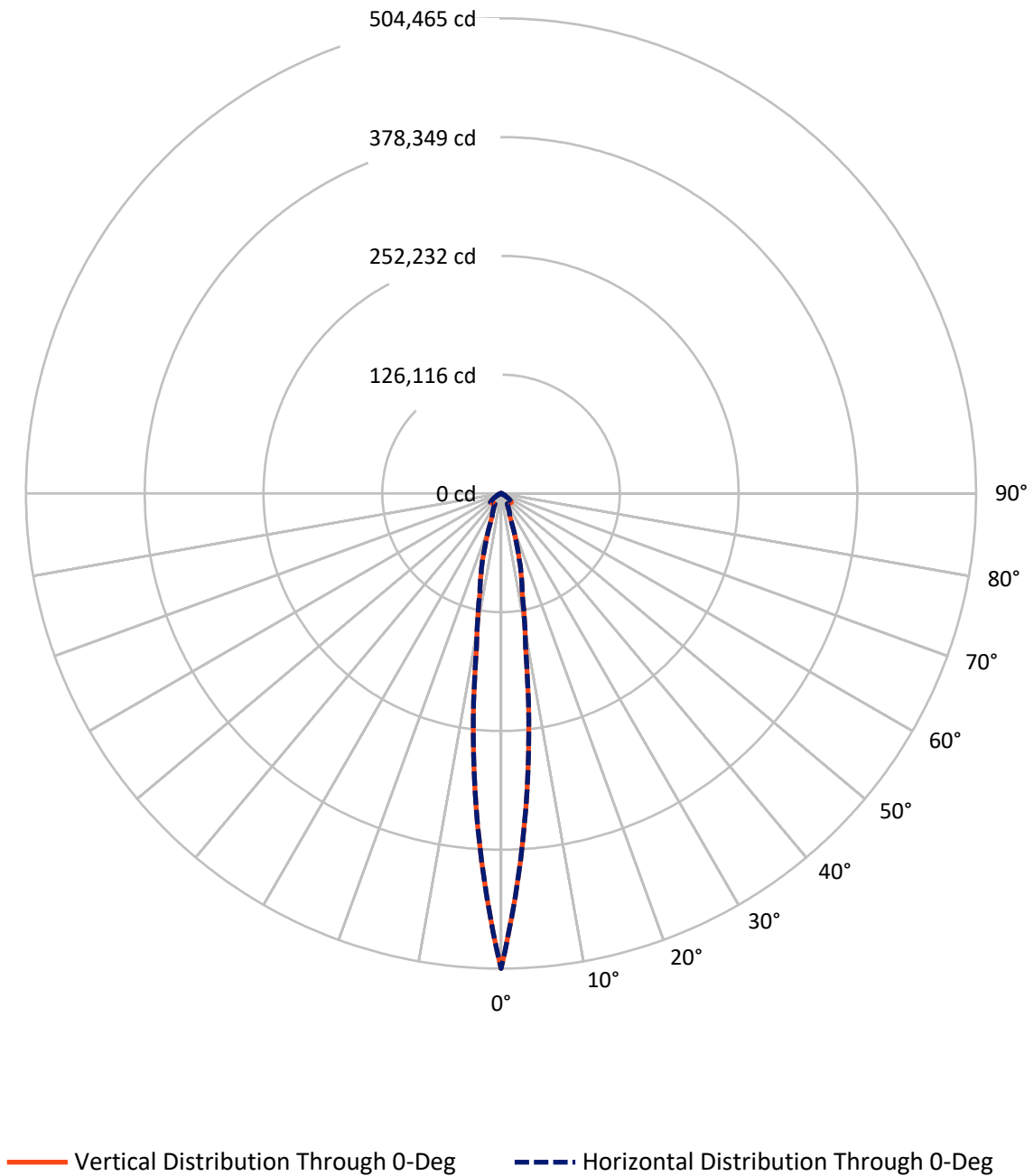
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Lumen Table

90	0.0	0.1	4.3	10.3	11.7	10.3	4.3	0.1	0.0										
80	0.0	0.1	4.3	10.3	11.7	10.3	4.3	0.1	0.0										
70	0.0	0.4	2.3	6.3	19.2	44.8	70.6	85.7	85.7	70.6	44.8	19.2	6.3	2.3	0.4	0.0			
60		1.7	9.3	39.2	101.2	182.9	256.5	296.6	296.6	256.5	182.9	101.2	39.2	9.3	1.7				
50	1.4	3.7	31.8	118.8	245.8	348.5	401.5	423.3	423.3	401.5	348.5	245.8	118.8	31.8	3.7	1.4			
40		9.9	70.9	212.2	341.9	387.5	392.9	398.4	398.4	392.9	387.5	341.8	212.2	70.9	9.9				
30	2.9	20.8	115.4	271.7	350.3	364.5	446.1	569.4	569.4	446.1	364.5	350.3	271.7	115.4	20.8	2.9			
20		30.9	152.2	293.9	333.3	419.2	902.5	1873.5	1873.5	902.5	419.2	333.3	293.9	152.2	30.8				
10	3.0	36.4	170.7	300.5	327.6	520.1	1823.2	6289.9	6289.9	1823.2	520.1	327.6	300.5	170.7	36.4	3.0			
0		36.4	170.7	300.5	327.6	520.1	1823.2	6289.9	6289.9	1823.2	520.1	327.6	300.5	170.7	36.4				
-10	2.9	30.9	152.2	293.9	333.3	419.2	902.5	1873.5	1873.5	902.5	419.2	333.3	293.9	152.2	30.8	2.9			
-20		20.8	115.4	271.7	350.3	364.5	446.1	569.4	569.4	446.1	364.5	350.3	271.7	115.4	20.8				
-30	1.4	9.9	70.9	212.2	341.8	387.5	392.9	398.4	398.4	392.9	387.5	341.8	212.2	70.8	9.9	1.4			
-40		3.7	31.8	118.8	245.8	348.5	401.5	423.3	423.3	401.5	348.5	245.8	118.8	31.8	3.7				
-50	0.0	1.7	9.3	39.2	101.2	182.8	256.5	296.5	296.5	256.5	182.8	101.2	39.2	9.3	1.7	0.0			
-60		0.4	2.3	6.3	19.2	44.8	70.6	85.7	85.7	70.6	44.8	19.2	6.3	2.3	0.4				
-70	0.0	0.4	2.3	6.3	19.2	44.8	70.6	85.7	85.7	70.6	44.8	19.2	6.3	2.3	0.4	0.0			
-80		0.0	0.1	4.3	10.3	11.6	10.3	4.3	0.1	0.0									
-90	0.0	0.1	4.3	10.3	11.6	10.3	4.3	0.1	0.0										
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

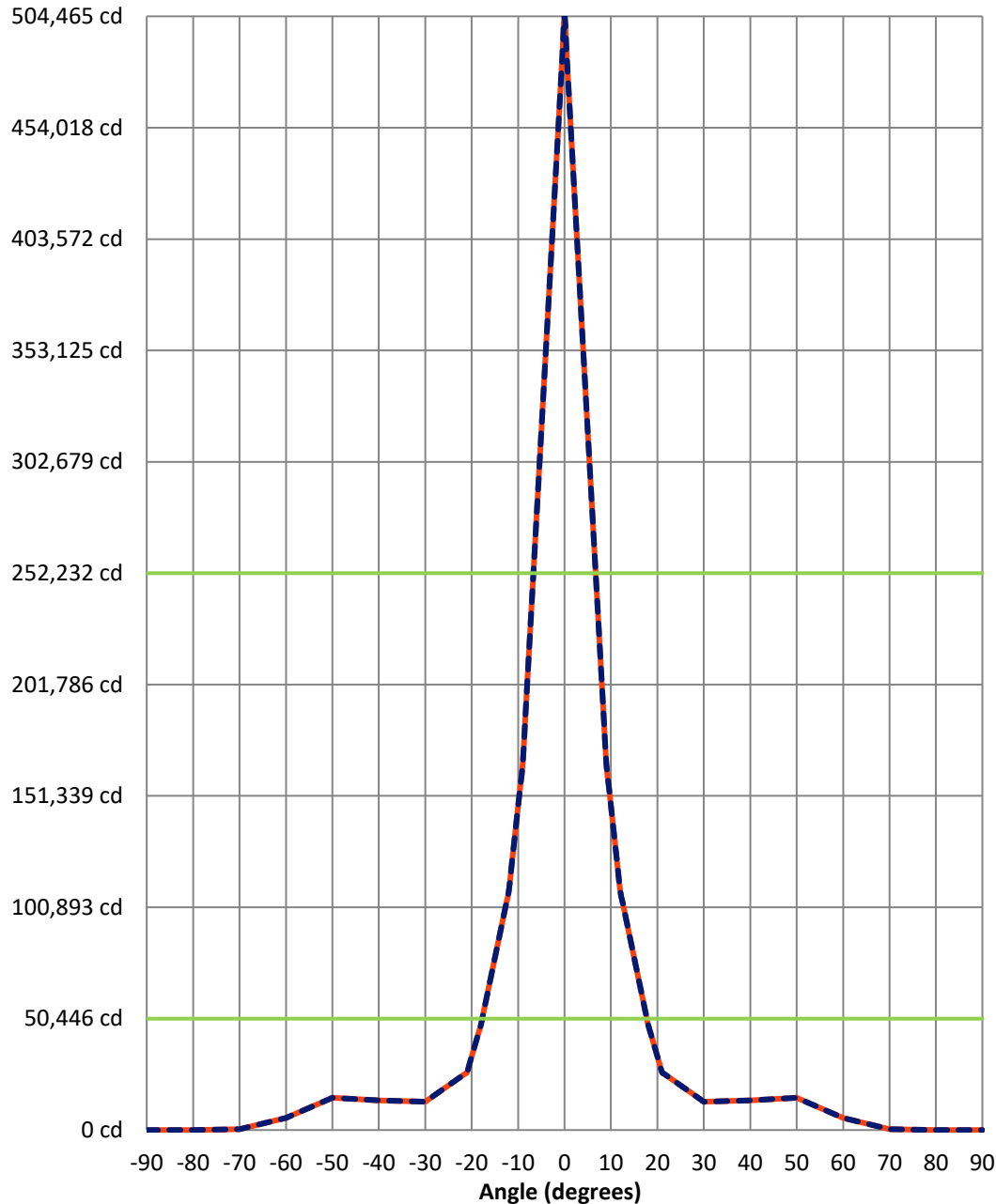
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 13.4°
 V Angle: 13.4°
 Lumens: 10934
 Efficiency: 13.6%

Field:
 H Angle: 35.5°
 V Angle: 35.5°
 Lumens: 37068.7
 Efficiency: 46.0%

Spill:
 Lumens: 43497.7
 Efficiency: 54.0%

— 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	13	182	331	342	355	365	372
60°	0	0	0	133	369	600	1973	2525	3071	3624	4055
50°	0	0	13	369	1263	5063	8608	9651	10697	11744	12472
40°	0	0	182	600	5063	10705	15081	14983	14886	14787	14573
30°	0	0	331	1972	8607	15081	14002	13517	13033	12549	12404
27°	0	0	342	2522	9650	14982	13517	13324	13130	12936	13331
24°	0	0	353	3071	10697	14885	13034	13129	13226	13324	14254
21°	0	0	365	3621	11743	14788	12549	12936	13324	13710	15182
18°	0	0	371	4054	12471	14573	12404	13331	14254	15182	18386
15°	0	0	375	4433	13039	14301	12432	14020	15611	17194	22718
12°	0	0	379	4810	13610	14029	12458	14710	16961	19210	27062
9°	0	0	383	5103	14051	13805	12511	15380	18240	21104	31712
6°	0	0	384	5232	14239	13680	12615	16003	19385	22782	37082
3°	0	0	385	5358	14423	13555	12720	16634	20533	24453	42412
0°	0	0	387	5488	14614	13429	12825	17256	21687	26118	47754
-3°	0	0	385	5358	14423	13555	12720	16634	20533	24453	42412
-6°	0	0	384	5232	14239	13680	12615	16003	19385	22782	37082
-9°	0	0	383	5103	14051	13805	12511	15380	18240	21104	31712
-12°	0	0	379	4810	13610	14029	12458	14710	16961	19210	27062
-15°	0	0	375	4433	13039	14301	12432	14020	15611	17194	22718
-18°	0	0	371	4054	12471	14573	12404	13331	14254	15182	18386
-21°	0	0	365	3621	11743	14788	12549	12936	13324	13710	15182
-24°	0	0	353	3071	10697	14885	13034	13129	13226	13324	14254
-27°	0	0	342	2522	9650	14982	13517	13324	13130	12936	13331
-30°	0	0	331	1972	8606	15081	14002	13517	13034	12549	12404
-40°	0	0	182	600	5062	10703	15081	14982	14885	14788	14573
-50°	0	0	13	369	1263	5062	8606	9650	10697	11742	12470
-60°	0	0	0	133	369	600	1972	2521	3071	3620	4054
-70°	0	0	0	0	13	182	331	342	353	365	371
-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°	375	379	383	386	385	387	385	386	383	379	375
60°	4433	4811	5105	5233	5360	5488	5360	5233	5105	4811	4433
50°	13040	13610	14052	14239	14426	14614	14426	14239	14052	13610	13040
40°	14300	14029	13805	13680	13554	13429	13554	13680	13805	14029	14300
30°	12431	12460	12511	12615	12720	12825	12720	12615	12511	12460	12431
27°	14020	14710	15380	16003	16634	17256	16634	16003	15380	14710	14020
24°	15611	16961	18240	19385	20533	21687	20533	19385	18240	16961	15611
21°	17194	19210	21104	22782	24453	26118	24453	22782	21104	19210	17194
18°	22718	27062	31712	37082	42412	47754	42412	37082	31712	27062	22718
15°	30206	37705	46212	56806	67403	77993	67403	56806	46212	37705	30206
12°	37705	48321	60707	76520	92427	108232	92427	76520	60707	48321	37705
9°	46212	60707	79951	108680	137396	165998	137396	108680	79951	60707	46212
6°	56806	76520	108680	165286	221943	278820	221943	165286	108680	76520	56806
3°	67403	92427	137396	221943	306932	391643	306932	221943	137396	92427	67403
0°	77993	108232	165998	278820	391643	504465	391643	278820	165998	108232	77993
-3°	67403	92427	137396	221943	306932	391643	306932	221943	137396	92427	67403
-6°	56806	76520	108680	165286	221943	278820	221943	165286	108680	76520	56806
-9°	46212	60707	79951	108680	137396	165998	137396	108680	79951	60707	46212
-12°	37705	48321	60707	76520	92427	108232	92427	76520	60707	48321	37705
-15°	30206	37705	46212	56806	67403	77993	67403	56806	46212	37705	30206
-18°	22718	27062	31712	37082	42412	47754	42412	37082	31712	27062	22718
-21°	17194	19210	21104	22782	24453	26118	24453	22782	21104	19210	17194
-24°	15611	16961	18240	19385	20533	21687	20533	19385	18240	16961	15611
-27°	14020	14710	15380	16003	16634	17256	16634	16003	15380	14710	14020
-30°	12432	12458	12511	12616	12720	12825	12720	12616	12511	12458	12432
-40°	14301	14029	13805	13680	13555	13429	13555	13680	13805	14029	14301
-50°	13039	13610	14051	14239	14423	14614	14423	14239	14051	13610	13039
-60°	4433	4810	5103	5232	5358	5488	5358	5232	5103	4810	4433
-70°	375	379	383	384	385	387	385	384	383	379	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):

	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°	372	365	355	342	331	182	13	0	0	0	0
60°	4055	3624	3071	2525	1973	600	370	133	0	0	0
50°	12472	11744	10697	9651	8609	5064	1263	369	13	0	0
40°	14573	14787	14886	14983	15081	10706	5063	600	182	0	0
30°	12404	12549	13033	13517	14002	15081	8609	1973	331	0	0
27°	13331	12936	13130	13324	13517	14983	9651	2525	342	0	0
24°	14254	13324	13226	13129	13033	14886	10697	3071	354	0	0
21°	15182	13710	13324	12936	12549	14787	11744	3624	365	0	0
18°	18386	15182	14254	13331	12404	14572	12472	4054	372	0	0
15°	22718	17194	15611	14020	12431	14300	13040	4433	375	0	0
12°	27062	19210	16961	14710	12460	14029	13610	4811	379	0	0
9°	31712	21104	18240	15380	12511	13805	14052	5105	383	0	0
6°	37082	22782	19385	16003	12615	13680	14239	5233	386	0	0
3°	42412	24453	20533	16634	12720	13554	14426	5360	385	0	0
0°	47754	26118	21687	17256	12825	13429	14614	5488	387	0	0
-3°	42412	24453	20533	16634	12720	13554	14426	5360	385	0	0
-6°	37082	22782	19385	16003	12615	13680	14239	5233	386	0	0
-9°	31712	21104	18240	15380	12511	13805	14052	5105	383	0	0
-12°	27062	19210	16961	14710	12460	14029	13610	4811	379	0	0
-15°	22718	17194	15611	14020	12431	14300	13040	4433	375	0	0
-18°	18386	15182	14254	13331	12404	14572	12472	4054	372	0	0
-21°	15182	13710	13324	12936	12549	14787	11744	3624	365	0	0
-24°	14254	13324	13226	13129	13033	14886	10697	3071	354	0	0
-27°	13331	12936	13130	13324	13517	14983	9651	2525	342	0	0
-30°	12404	12549	13034	13517	14002	15081	8608	1973	331	0	0
-40°	14573	14788	14885	14982	15081	10704	5063	600	182	0	0
-50°	12470	11742	10697	9650	8606	5062	1263	369	13	0	0
-60°	4054	3620	3071	2521	1972	600	369	133	0	0	0
-70°	371	365	353	342	331	182	13	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)