

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: 764987_400MP

Luminaire Tested: **MPWR-65-X-400**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 764987_400MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: MPWR-65-X-400
Description: FLOODLIGHT - 6H x 5V
Light Source: 400 WATT PULSE-START CLEAR ED-37 UNIVERSAL BURN
Ballast/Driver: -

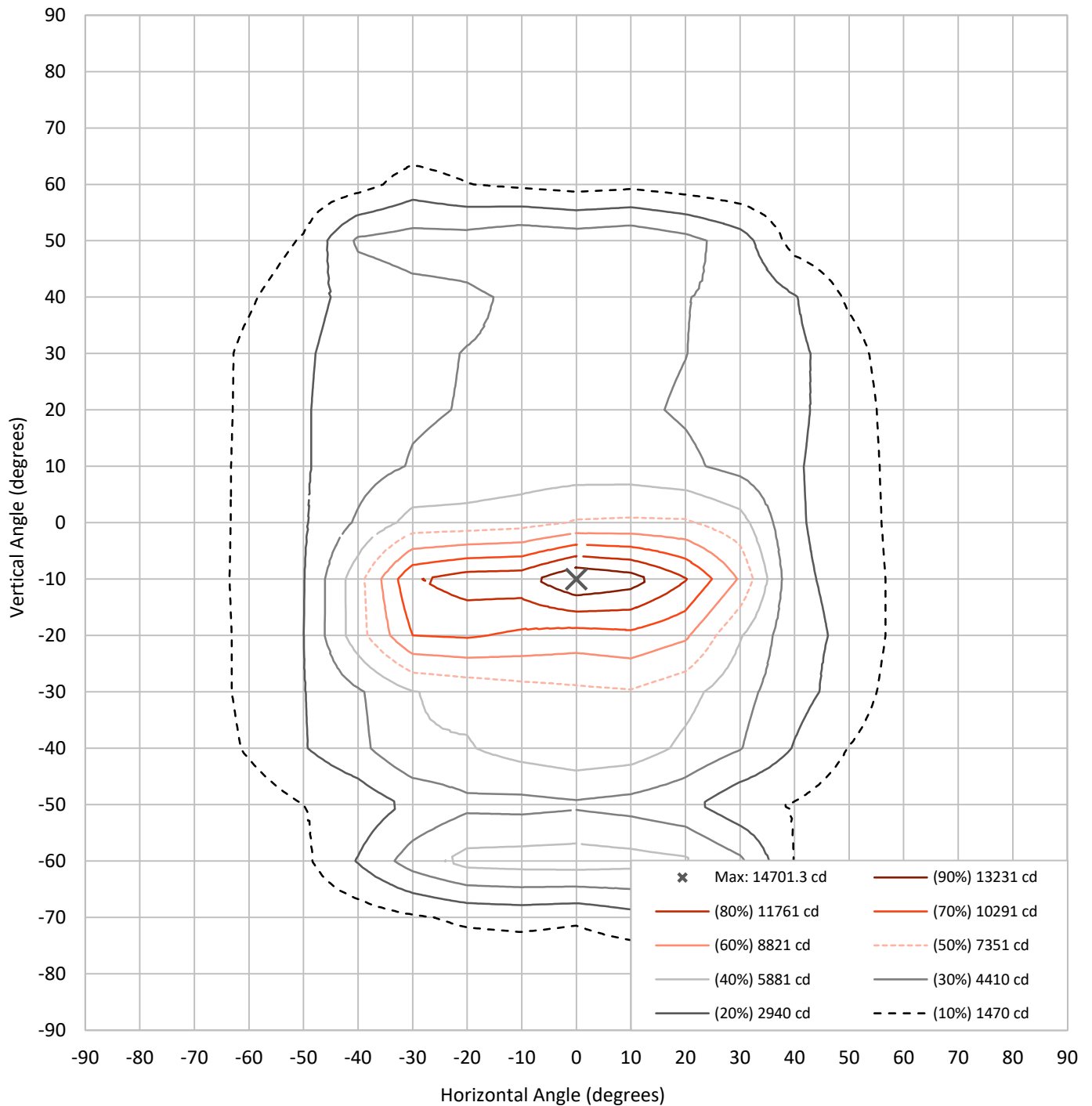
Summary

Lumens per Lamp:	42000 (1 lamp)	NEMA Type:	6H x 7V
Luminaire Lumens:	18885.4 lumens	Max Intensity:	14701.3 candela
Efficiency:	45.0%	Max Intensity Angle:	0°H x -10°V
Efficacy:	41.8 lumens/watt		
Luminous Opening:	Point Source (0' x 0' x 0')		
Beam Angle (50%):	71.2°H x 29.4°V	Field Angle (10%):	120.2°H x 130.1°V
Beam Lumens:	5103.9 lumens	Field Lumens:	17866.2 lumens
Beam Efficiency:	27.0%	Field Efficiency:	94.6%
Input Watts (W):	452		
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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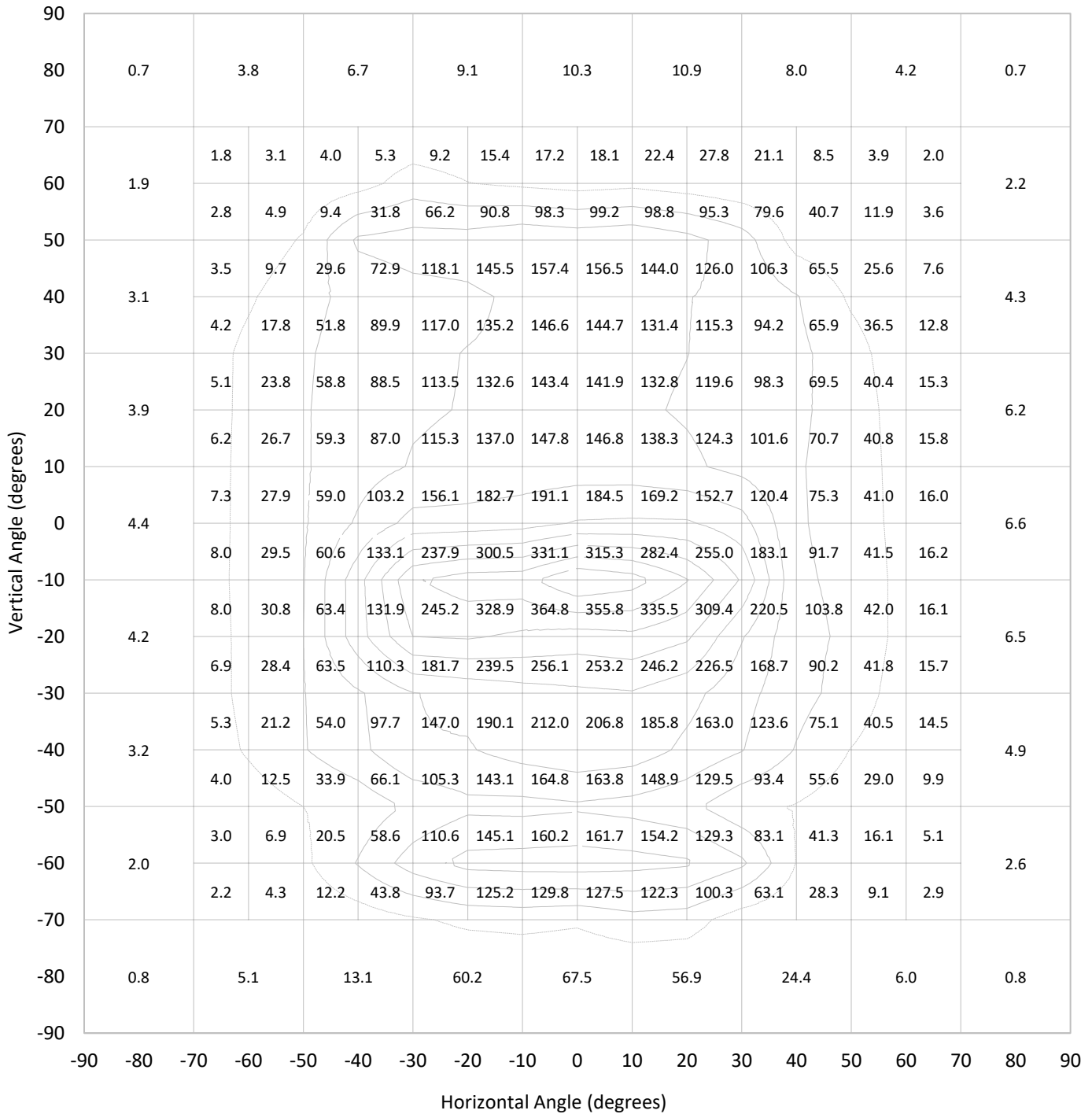
Iso-Candela Plot





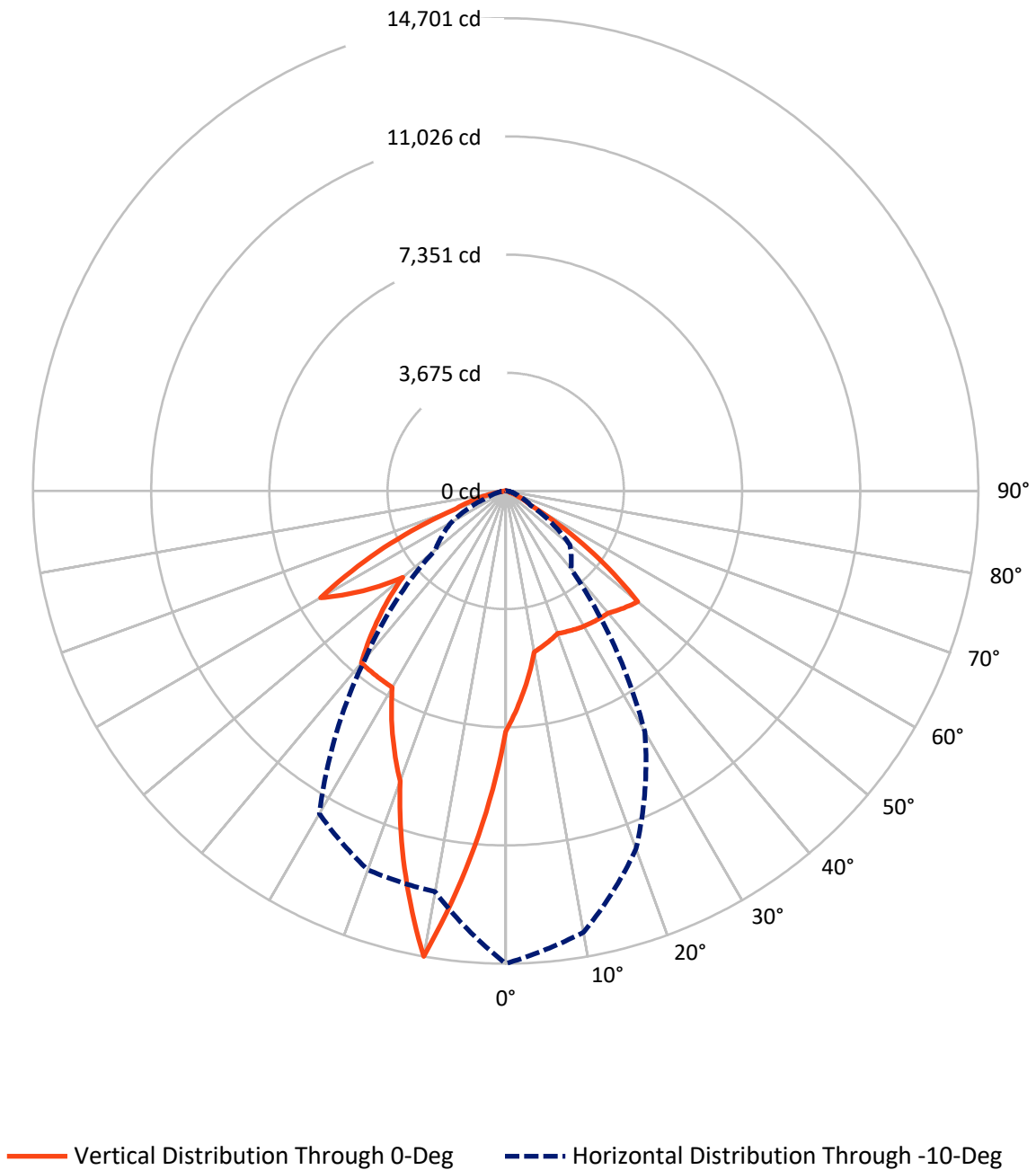
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Lumen Table



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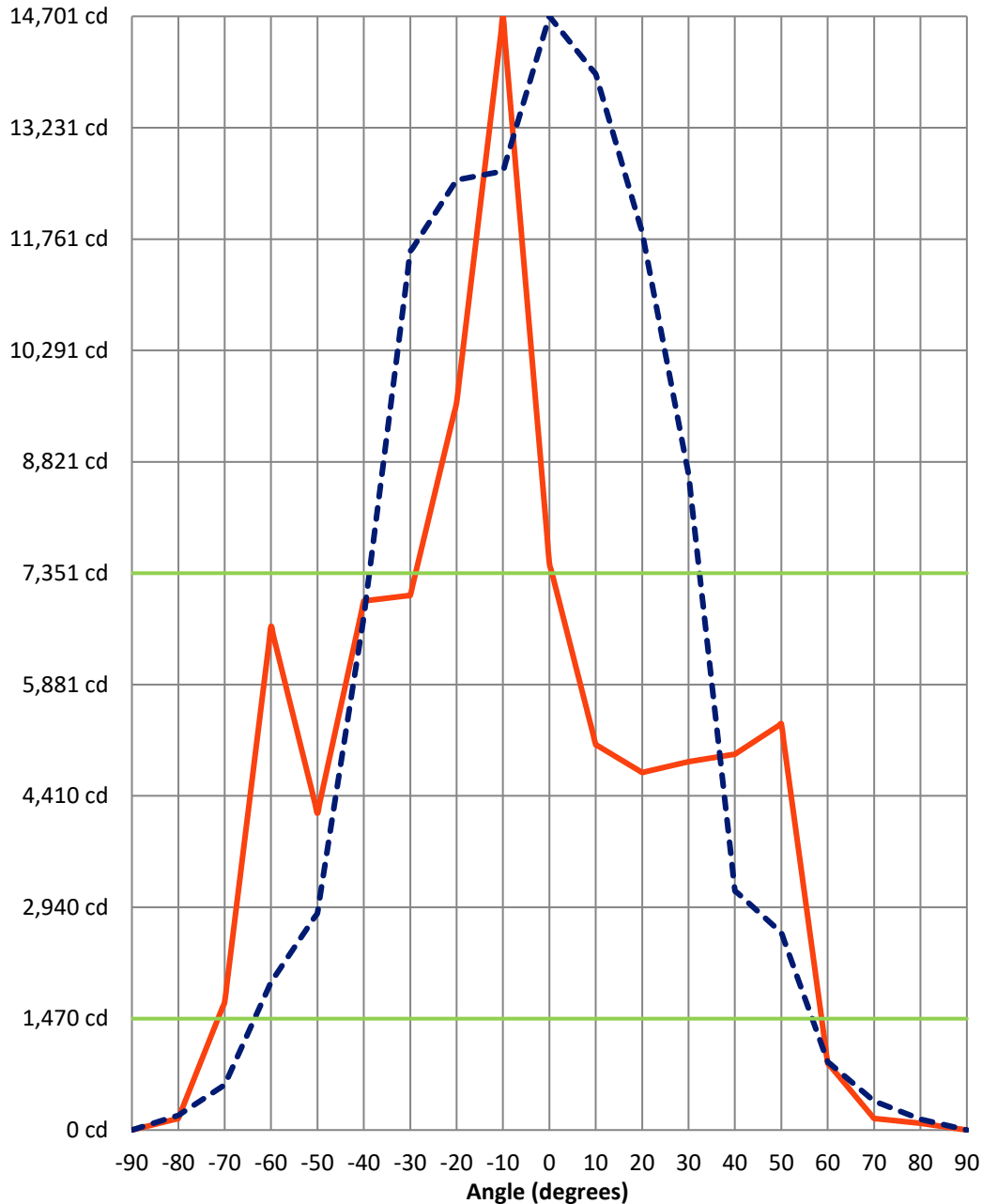
Luminous Intensity Polar Plot





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Luminous Intensity Plot



Beam:
 H Angle: 71.2°
 V Angle: 29.4°
 Lumens: 5103.9
 Efficiency: 27.0%

Field:
 H Angle: 120.2°
 V Angle: 130.1°
 Lumens: 17866.2
 Efficiency: 94.6%

Spill:
 Lumens: 1019.1
 Efficiency: 5.4%

— Vertical Distribution through 0-Deg
 - - Horizontal Distribution through -10-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-80°	-70°	-60°	-50°	-40°	-30°	-20°	-10°	0°	10°
90°	0	0	0	0	0	0	0	1	1	0	1
80°	0	33	60	74	84	90	96	102	97	89	89
70°	0	59	94	132	150	163	185	187	172	153	152
60°	0	79	162	234	382	893	2146	1510	1183	885	1086
50°	0	107	257	476	1625	4662	5070	5093	5665	5361	5643
40°	0	134	362	1274	2495	3389	3942	4168	4671	4962	4809
30°	0	157	503	1849	2748	3621	4169	4450	4597	4862	4718
20°	0	175	571	1852	2809	3738	4255	4475	4555	4720	4628
10°	0	186	594	1896	2799	3800	4512	4783	5011	5088	5072
0°	0	190	585	1917	2781	4619	6394	6468	6769	7484	7580
-10°	0	194	596	1952	2865	6778	11591	12541	12657	14701	13937
-20°	0	189	583	1878	2920	6742	10287	10468	10003	9602	9910
-30°	0	172	540	1895	2885	4226	5822	6277	6757	7058	7235
-40°	0	141	430	1651	2850	3999	5786	5761	6497	6984	6709
-50°	0	112	324	685	1468	2019	3185	4057	3957	4182	3882
-60°	0	79	215	377	1163	3034	5100	6416	6561	6648	6430
-70°	0	59	113	195	350	707	1284	1752	1924	1691	2362
-80°	0	33	60	79	121	136	152	157	161	153	150
-90°	0	0	0	0	0	0	0	1	1	0	1



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CANDELA DISTRIBUTION (continued):

	20°	30°	40°	50°	60°	70°	80°	90°
90°	1	0	0	0	0	0	0	0
80°	88	85	79	76	69	59	33	0
70°	145	135	124	127	120	92	57	0
60°	713	345	246	252	222	130	73	0
50°	4917	3623	894	350	297	215	93	0
40°	4443	4143	3035	1228	343	241	111	0
30°	4428	3954	3297	2072	427	283	126	0
20°	4274	3810	3148	2420	546	317	136	0
10°	4675	3966	3046	2421	722	353	141	0
0°	7538	6473	3082	2429	816	380	143	0
-10°	11850	8652	3161	2606	902	382	143	0
-20°	9066	6007	3344	2686	866	353	139	0
-30°	6383	4903	3450	2327	642	290	131	0
-40°	5553	4483	2846	1424	466	251	117	0
-50°	3334	1904	1384	643	340	197	101	0
-60°	6108	4695	1424	360	247	144	82	0
-70°	2145	642	266	211	175	104	64	0
-80°	140	118	102	97	84	65	36	0
-90°	1	0	0	0	0	0	0	0

(END OF REPORT)