

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: LUMARK

Report Number: P26565

Luminaire Tested: **LDWP-FC-3B-ED**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P26565  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: LDWP-FC-3B-ED  
Description: LUMARK WALPAK CUTOFF  
Light Source: (2) 5000K COB LEDS  
Ballast/Driver: [1] ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1911.6 lumens  
Efficiency: N/A  
Efficacy: 70.5 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.75' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

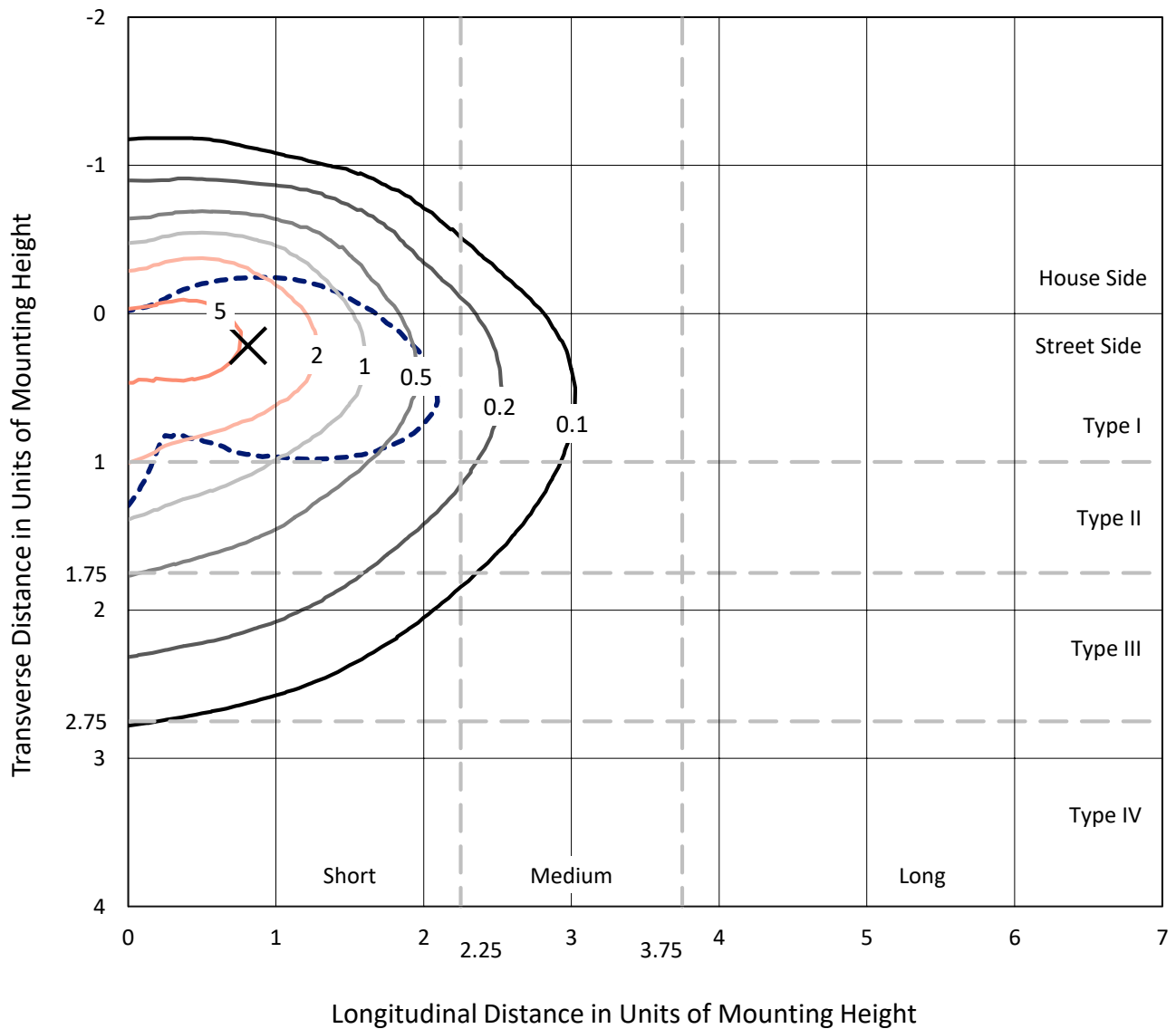
Input Watts (W): 27.1  
Input Voltage (V): 120.11  
Input Current (Ain): 0.22682  
Voltage Rise (V): NR  
Power Factor: 0.9959  
Total Harmonic Distortion (THDi): 6.78%  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: 24 HR  
Ambient Temperature (°C): 24.8  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

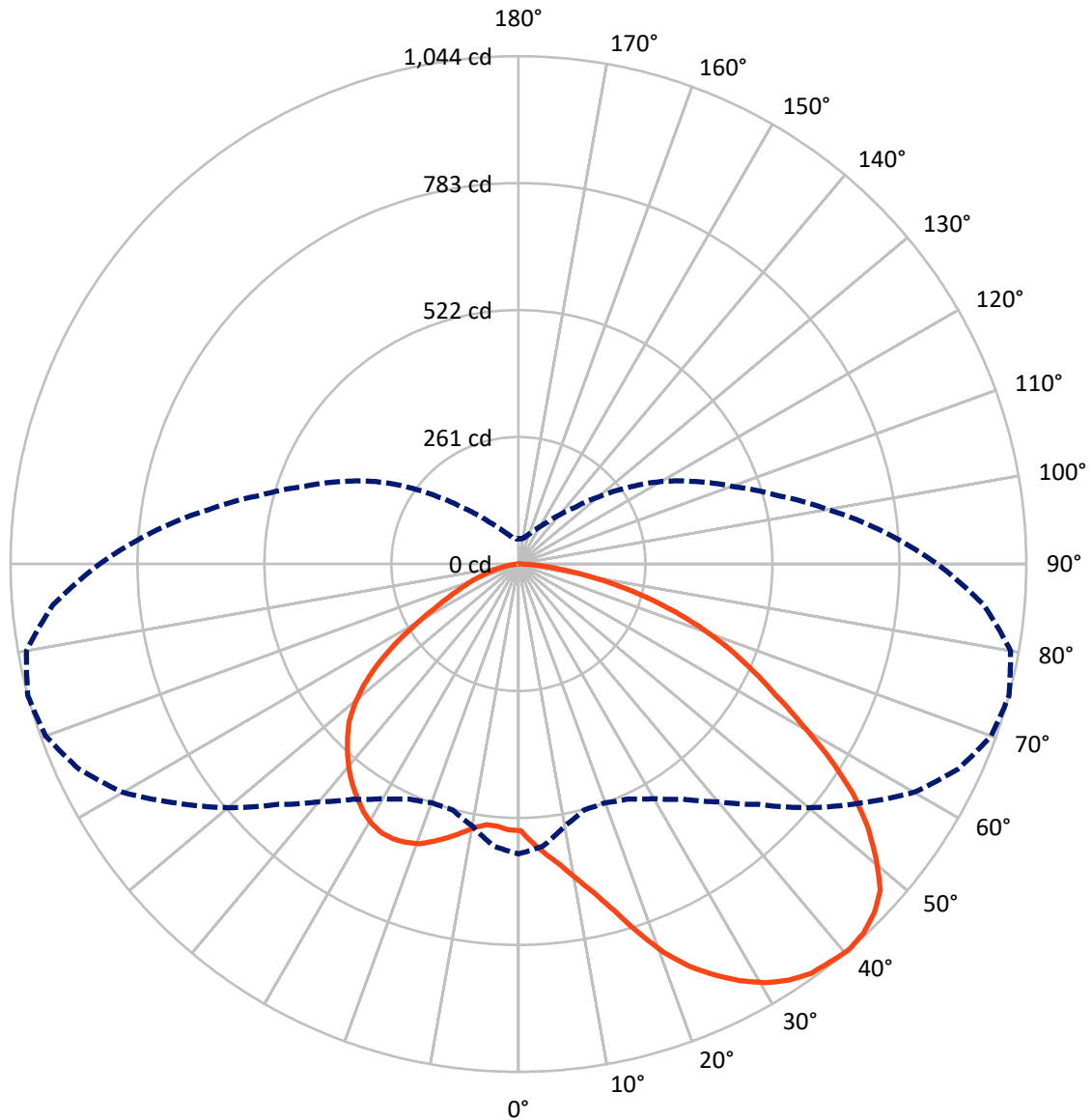
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 40-Deg Vertical

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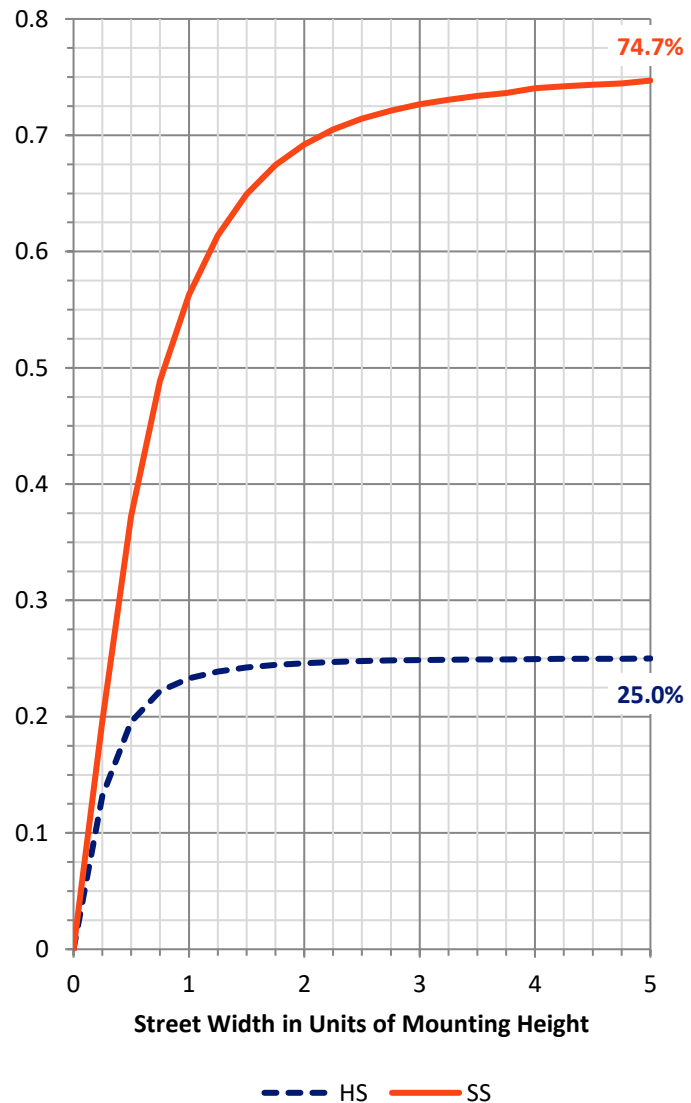
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	482.0	0.0	482.0
	% Fixture	25.2	0.0	25.2
<b>Street Side</b>	Lumens	1429.6	0.0	1429.6
	% Fixture	74.8	0.0	74.8
<b>Total</b>	Lumens	1911.6	0.0	1911.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.6	2.8
10°-20°	160.4	8.4
20°-30°	270.1	14.1
30°-40°	342.9	17.9
40°-50°	364.0	19.0
50°-60°	328.1	17.2
60°-70°	239.4	12.5
70°-80°	128.4	6.7
80°-90°	25.6	1.3
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°	1911.6	100.0
0°-180°	1911.6	100.0

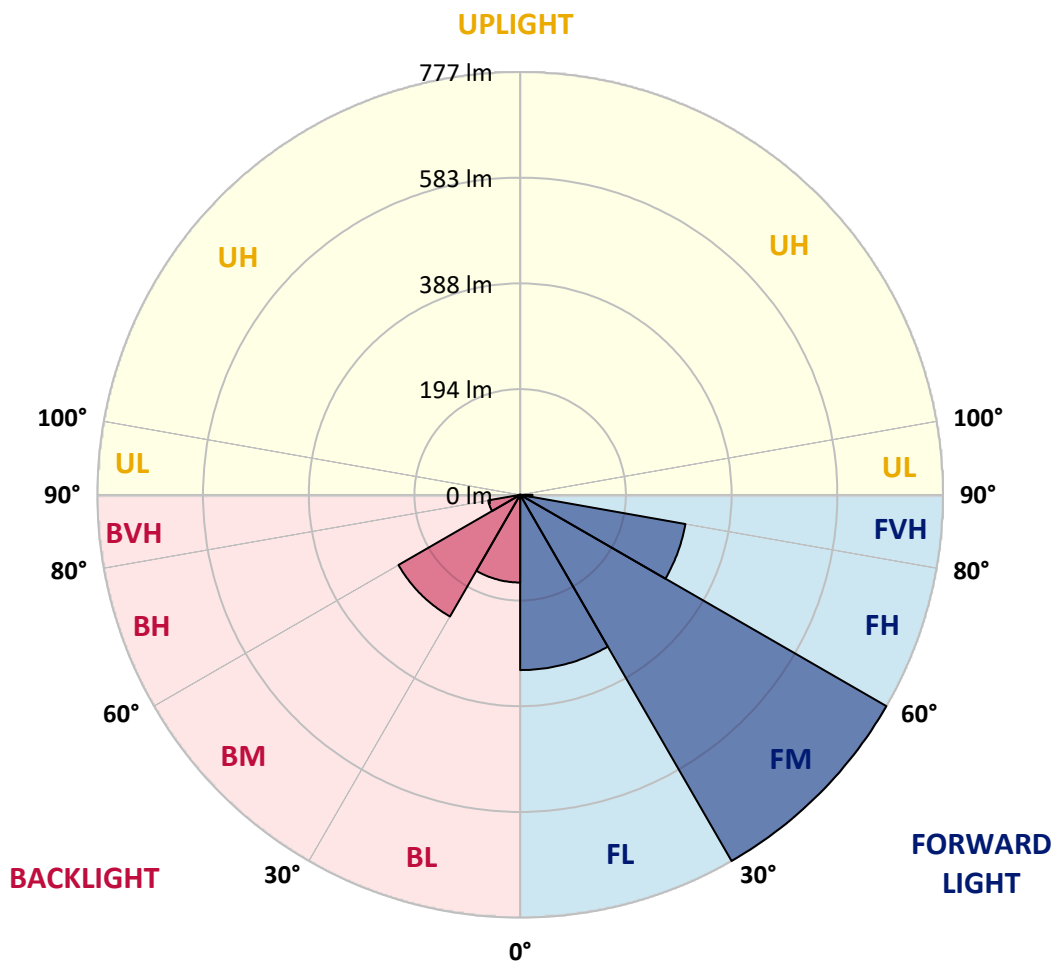


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	322.0	16.8			
FM	(30°-60°)	776.8	40.6			
FH	(60°-80°)	308.2	16.1			G0/660
FVH	(80°-90°)	22.5	1.2			G1/100
BL	(0°-30°)	161.1	8.4	B1/500		
BM	(30°-60°)	258.2	13.5	B1/1000		
BH	(60°-80°)	59.5	3.1	B0/110		G0/110
BVH	(80°-90°)	3.1	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	548	548	548	548	548	548	548	548	548	548	548
2.5°	601	601	598	598	598	597	602	601	600	595	594
5°	633	636	638	641	643	642	647	649	645	640	636
7.5°	662	663	669	672	675	674	679	682	679	675	671
10°	679	681	686	693	701	703	707	710	708	705	701
12.5°	682	688	693	703	714	722	727	730	730	729	727
15°	684	688	693	706	721	732	742	746	746	750	755
17.5°	684	685	693	708	722	735	753	767	772	778	785
20°	682	680	687	699	714	729	753	773	793	813	829
22.5°	678	675	676	682	700	717	746	778	814	845	865
25°	674	669	662	663	678	694	730	776	818	853	883
27.5°	664	660	647	643	646	667	707	764	814	857	892
30°	651	645	629	619	615	633	675	736	798	851	898
32.5°	635	627	608	595	590	603	644	698	762	830	890
35°	621	610	588	569	563	576	613	656	716	791	862
37.5°	609	594	567	545	540	555	584	619	672	743	824
40°	596	582	547	523	522	533	557	590	638	699	779
42.5°	584	567	528	506	505	515	533	563	608	661	733
45°	573	551	511	492	490	498	514	537	580	625	689
47.5°	559	534	493	477	478	482	496	516	552	592	652
50°	541	513	476	461	462	470	480	500	527	562	614
52.5°	517	489	456	445	446	454	466	481	503	531	575
55°	493	462	436	429	432	437	450	466	481	501	540
57.5°	464	434	414	408	411	417	432	446	459	472	507
60°	426	404	389	386	391	396	409	422	433	444	472
62.5°	389	370	359	360	362	372	383	393	404	415	436
65°	346	331	324	327	331	339	348	359	369	380	396
67.5°	306	294	288	290	293	300	308	317	326	338	353
70°	261	252	247	249	252	261	268	274	284	294	306
72.5°	215	208	204	206	211	219	226	232	241	248	262
75°	170	165	162	165	169	177	184	189	195	202	215
77.5°	130	123	122	124	129	135	141	145	151	156	166
80°	85	85	84	86	89	95	100	102	107	111	119
82.5°	53	51	50	52	54	58	62	63	67	70	75
85°	24	23	23	24	25	28	30	31	33	35	38
87.5°	5	5	4	5	6	6	8	8	9	10	12
90°	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°	95°	100°	105°
0°	548	548	548	548	548	548	548	548	548	548	548
2.5°	592	589	581	575	575	575	571	565	558	552	547
5°	632	626	613	604	600	596	587	574	561	550	541
7.5°	666	660	644	632	625	620	605	589	570	555	540
10°	696	690	675	664	658	650	633	613	591	570	549
12.5°	725	720	709	702	694	687	668	643	617	594	565
15°	756	758	751	747	740	730	707	675	646	615	581
17.5°	795	805	804	804	796	783	755	716	682	637	596
20°	845	858	859	858	852	833	798	753	712	661	610
22.5°	881	895	901	905	898	874	836	788	733	677	617
25°	905	925	937	943	936	915	874	817	755	691	621
27.5°	921	950	966	976	970	949	898	836	769	696	620
30°	932	966	989	1003	999	974	917	854	777	695	613
32.5°	934	976	1005	1022	1020	995	937	862	781	692	601
35°	925	972	1010	1037	1034	1009	947	868	779	680	584
37.5°	900	965	1009	1038	1039	1018	958	866	767	664	567
40°	857	939	997	1034	1044	1027	960	861	755	646	547
42.5°	815	902	978	1029	1039	1022	955	852	735	621	525
45°	764	855	946	1007	1025	1011	947	833	712	596	501
47.5°	715	808	898	975	1001	984	921	806	681	564	476
50°	670	756	852	923	953	938	876	767	642	528	442
52.5°	634	701	795	862	899	884	824	718	591	483	402
55°	592	653	734	803	835	824	761	656	531	432	355
57.5°	552	605	671	739	755	740	672	576	461	371	303
60°	510	558	610	659	669	637	580	488	382	302	247
62.5°	469	508	550	586	594	565	510	425	322	245	196
65°	425	459	491	519	530	504	451	369	275	205	159
67.5°	379	408	435	456	469	446	397	322	233	170	130
70°	328	353	376	395	404	387	343	273	193	139	105
72.5°	277	296	314	330	337	326	288	226	156	111	83
75°	225	239	252	264	269	261	229	179	122	85	64
77.5°	174	183	191	199	202	197	172	135	92	63	47
80°	124	129	134	139	140	137	119	93	63	42	31
82.5°	78	81	82	86	85	84	73	57	37	25	18
85°	40	41	41	42	42	42	36	27	17	10	7
87.5°	12	13	12	13	12	13	10	8	4	2	1
90°	0	0	0	0	0	0	0	0	0	0	0





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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	548	548	548	548	548	548	548	548	548	548	548
2.5°	542	533	527	521	514	507	502	499	495	493	487
5°	527	512	499	488	477	467	457	448	438	436	427
7.5°	520	498	480	461	444	429	414	401	388	378	368
10°	522	494	470	444	421	398	379	361	345	331	318
12.5°	532	495	463	431	401	374	350	328	310	295	281
15°	540	498	459	424	386	355	329	304	284	267	252
17.5°	547	497	453	412	373	340	312	285	263	245	228
20°	552	497	444	400	360	324	296	270	245	226	206
22.5°	553	492	434	389	348	311	281	254	229	207	188
25°	547	482	425	377	336	300	267	239	213	190	169
27.5°	541	471	415	367	325	287	253	222	196	172	149
30°	528	458	404	355	312	273	236	203	172	148	127
32.5°	515	445	392	343	296	252	212	176	147	125	108
35°	502	434	379	324	274	224	183	149	124	105	92
37.5°	485	419	362	304	246	195	155	126	105	89	77
40°	467	401	339	274	214	165	132	106	88	75	66
42.5°	448	381	315	244	183	142	111	90	75	64	56
45°	424	355	280	211	158	122	94	76	63	56	50
47.5°	398	322	245	182	136	103	79	64	56	51	46
50°	364	285	211	156	115	87	67	57	51	47	43
52.5°	324	248	178	132	97	73	59	52	47	43	40
55°	281	209	151	111	81	62	53	47	43	40	37
57.5°	237	171	127	93	67	54	47	43	40	37	34
60°	193	139	105	77	56	47	42	39	36	34	31
62.5°	154	114	86	63	48	42	38	35	33	30	28
65°	122	94	70	52	41	37	33	31	29	27	25
67.5°	98	77	57	42	35	31	29	26	25	23	21
70°	79	62	46	35	30	26	24	22	20	19	18
72.5°	62	49	36	28	23	21	19	17	16	15	14
75°	48	37	27	21	17	16	14	13	13	12	11
77.5°	35	26	18	14	12	11	10	10	9	8	8
80°	23	16	12	9	8	7	6	6	6	5	5
82.5°	12	8	6	5	4	4	3	3	3	3	3
85°	4	3	2	2	2	1	1	1	1	1	1
87.5°	1	1	1	1	1	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):**

	165°	170°	175°	180°
0°	548	548	548	548
2.5°	487	487	484	486
5°	425	422	419	420
7.5°	364	361	358	357
10°	311	306	304	306
12.5°	271	265	264	265
15°	242	234	232	234
17.5°	217	207	206	206
20°	194	184	181	180
22.5°	173	162	158	158
25°	154	143	137	137
27.5°	134	123	118	116
30°	113	103	99	98
32.5°	96	88	84	84
35°	81	75	72	71
37.5°	69	63	61	60
40°	58	54	52	52
42.5°	51	48	47	47
45°	47	44	43	42
47.5°	43	41	40	39
50°	40	38	37	36
52.5°	37	35	34	33
55°	35	33	32	31
57.5°	32	30	29	29
60°	30	28	27	27
62.5°	27	25	24	24
65°	23	22	21	21
67.5°	20	19	18	18
70°	17	16	15	15
72.5°	14	13	13	12
75°	11	10	10	10
77.5°	8	7	7	7
80°	5	5	5	5
82.5°	3	3	3	3
85°	1	1	1	1
87.5°	0	0	0	0
90°	0	0	0	0

(END OF REPORT)