

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: P26563

Luminaire Tested: **LDWP-FC-3B-ED-7040**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P26563  
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-7040  
Description: LUMARK WALPAK CUTOFF 2LED 4000K  
Light Source: (2) 4000K COB LEDS  
Ballast/Driver: [1] ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1883.7 lumens  
Efficiency: N/A  
Efficacy: 69.3 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): 27.2  
Input Voltage (V): 120.12  
Input Current (Ain): 0.22760  
Voltage Rise (V): NR  
Power Factor: 0.9958  
Total Harmonic Distortion (THDi): 6.72%  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: 24 HR  
Ambient Temperature (°C): 25.8  
Test Distance: 25 FT

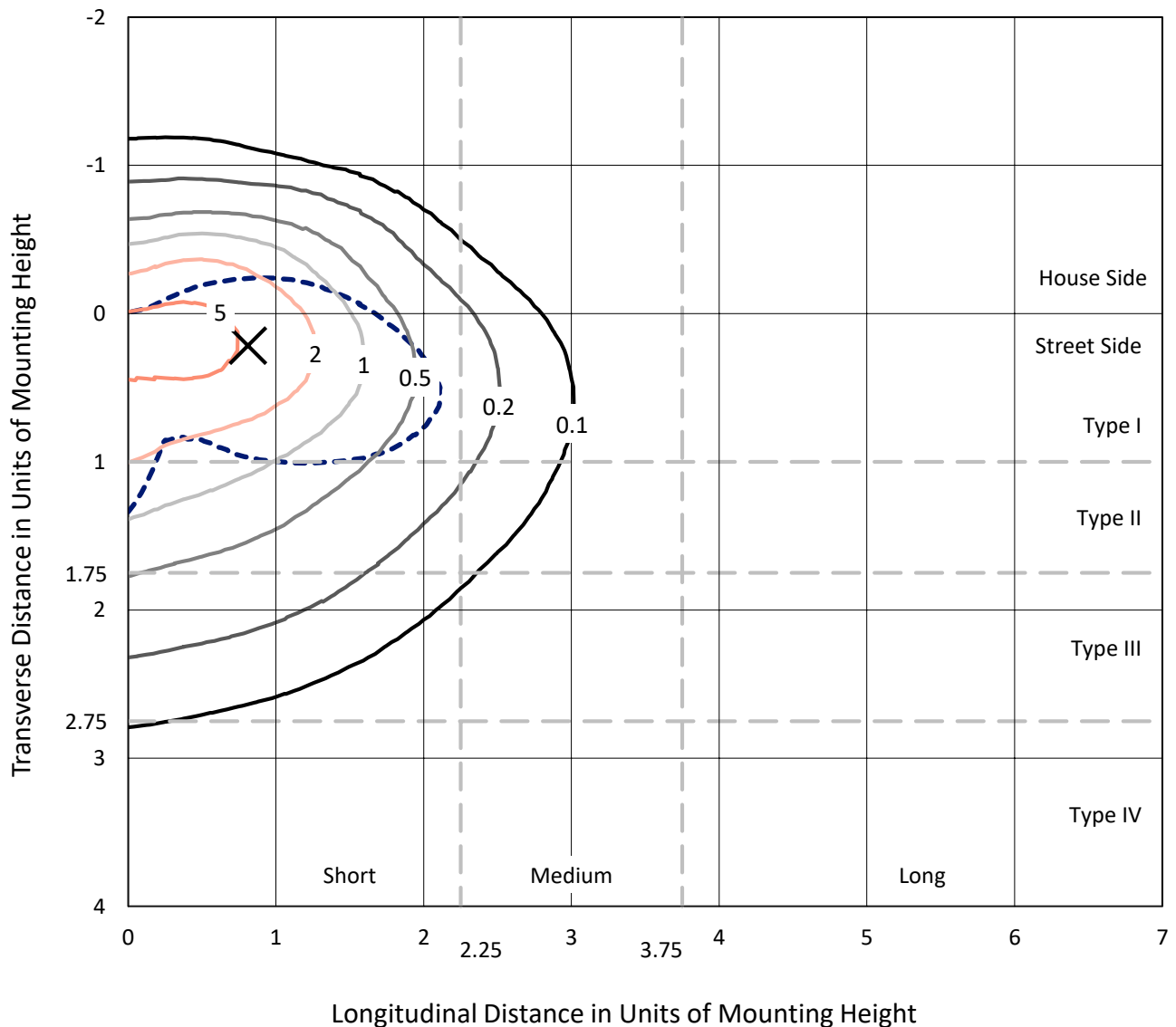


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### Iso-Footcandle Lines of Horizontal Illumination

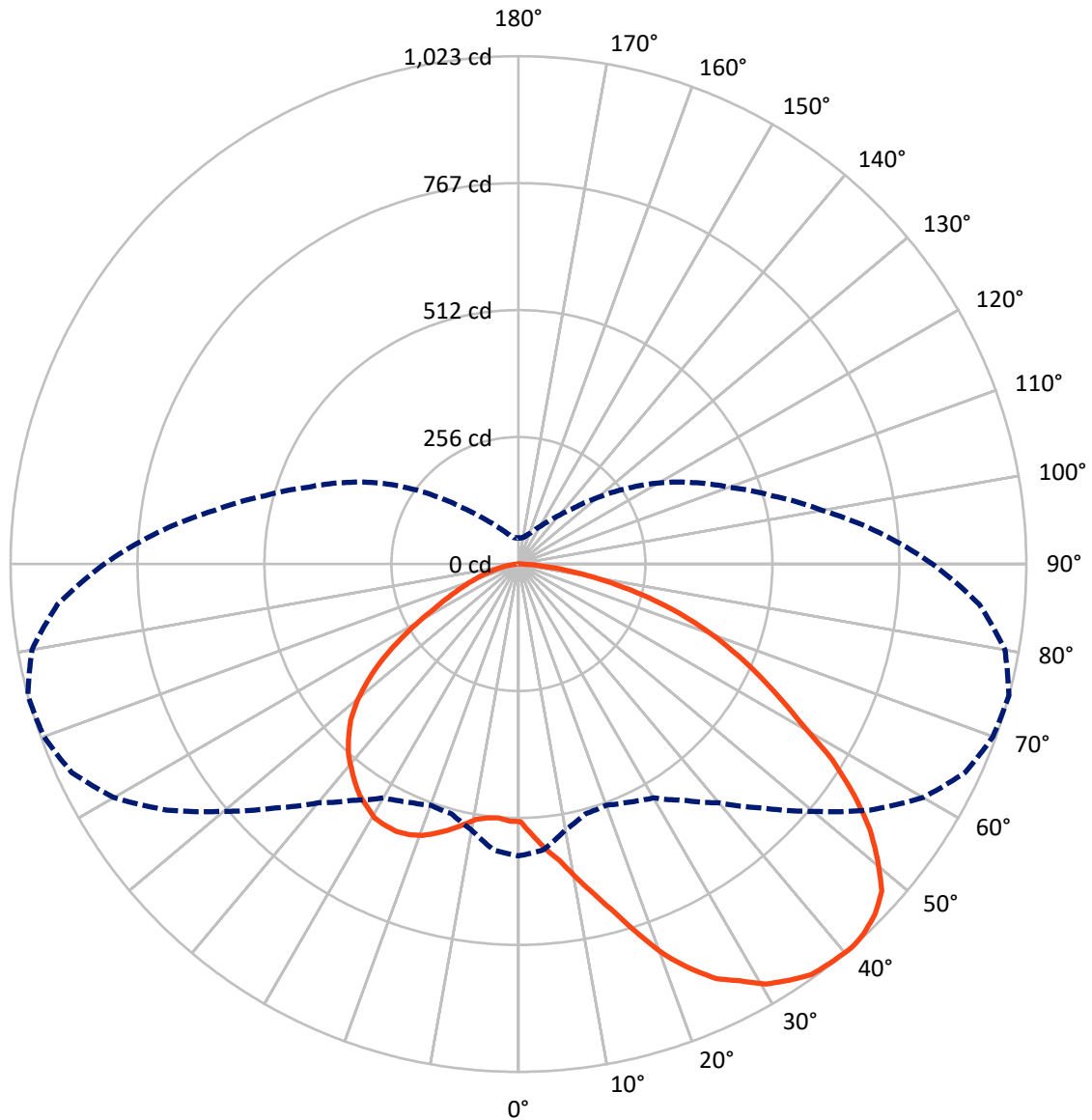
✕ Max cd  
 - - - 1/2 Max cd



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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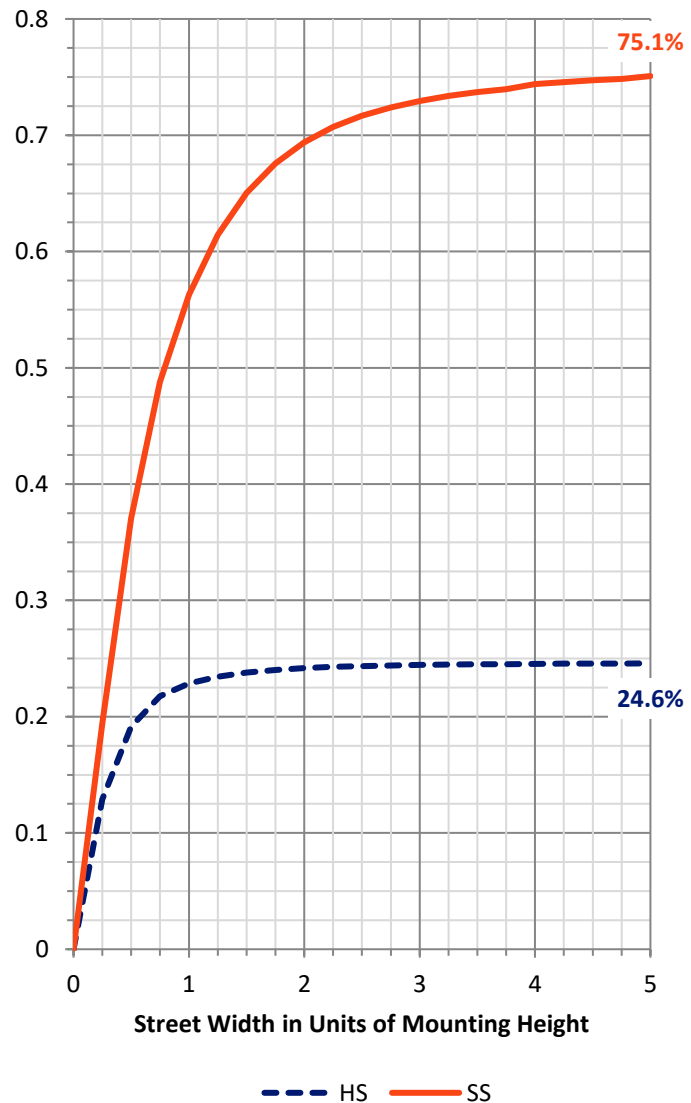
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	467.0	0.0	467.0
	% Fixture	24.8	0.0	24.8
<b>Street Side</b>	Lumens	1416.7	0.0	1416.7
	% Fixture	75.2	0.0	75.2
<b>Total</b>	Lumens	1883.7	0.0	1883.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.3	2.7
10°-20°	155.1	8.2
20°-30°	263.6	14.0
30°-40°	336.7	17.9
40°-50°	358.7	19.0
50°-60°	324.7	17.2
60°-70°	238.5	12.7
70°-80°	129.5	6.9
80°-90°	26.6	1.4
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°	1883.7	100.0
0°-180°	1883.7	100.0



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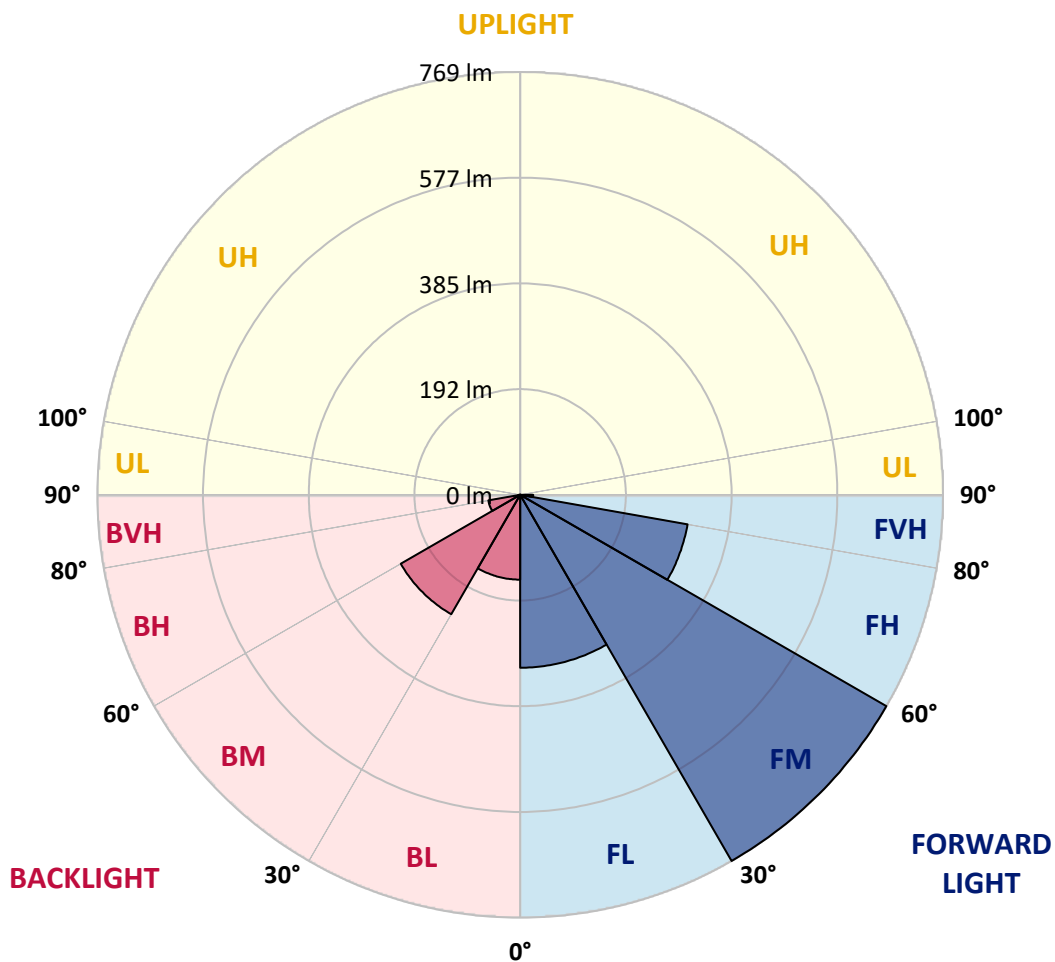
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	314.6	16.7			
FM	(30°-60°)	769.3	40.8			
FH	(60°-80°)	309.3	16.4			G0/660
FVH	(80°-90°)	23.5	1.2			G1/100
BL	(0°-30°)	154.3	8.2	B1/500		
BM	(30°-60°)	250.8	13.3	B1/1000		
BH	(60°-80°)	58.7	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°	519	519	519	519	519	519	519	519	519	519	519
2.5°	574	572	574	570	573	570	572	568	568	564	559
5°	615	613	616	615	619	618	622	619	617	612	605
7.5°	642	643	648	650	653	652	657	655	653	649	641
10°	655	659	664	670	678	680	684	683	682	678	673
12.5°	661	665	672	683	693	698	704	707	708	706	704
15°	663	667	675	688	699	709	717	722	725	724	727
17.5°	664	668	676	692	704	718	731	739	746	749	761
20°	663	665	676	684	700	717	732	748	767	782	807
22.5°	661	661	668	672	686	705	727	754	789	814	843
25°	655	655	657	658	666	685	714	756	796	829	864
27.5°	649	648	645	639	639	659	692	744	795	835	869
30°	637	636	627	617	610	626	662	721	779	831	880
32.5°	627	620	607	594	586	597	631	685	747	816	879
35°	613	603	587	569	560	569	602	645	702	782	854
37.5°	599	589	564	543	538	547	572	610	659	738	820
40°	588	578	544	521	517	529	544	581	628	695	775
41°	584	572	536	514	510	520	536	569	617	677	760
42.5°	579	564	525	505	500	509	523	556	601	655	735
45°	570	547	509	491	486	491	504	531	572	625	692
47.5°	557	531	492	477	475	477	486	511	547	593	652
50°	541	511	475	462	464	466	473	494	524	562	616
52.5°	517	487	454	446	449	453	462	477	500	534	579
55°	492	461	433	429	433	438	447	463	480	506	541
57.5°	463	433	411	407	414	419	430	444	458	479	508
60°	428	403	386	385	392	398	408	422	434	450	474
62.5°	391	371	359	360	365	374	382	394	405	418	441
65°	349	335	327	328	333	343	349	361	370	384	401
67.5°	308	296	291	291	297	303	311	324	330	343	357
70°	265	257	251	251	257	263	269	280	287	299	311
72.5°	219	213	210	209	215	223	228	237	243	253	264
75°	174	170	168	168	174	181	185	196	199	207	216
77.5°	131	128	127	130	133	139	145	151	154	160	168
80°	90	89	89	92	94	99	102	108	110	115	120
82.5°	54	53	54	57	58	61	64	68	69	73	76
85°	25	26	26	28	28	30	32	35	35	37	39
87.5°	5	6	6	7	7	8	9	10	10	11	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°	519	519	519	519	519	519	519	519	519	519	519
2.5°	553	552	552	547	547	543	536	532	528	522	518
5°	595	593	591	584	577	567	555	545	535	523	513
7.5°	632	629	625	614	604	593	577	561	544	529	515
10°	666	663	661	652	643	627	607	588	566	544	522
12.5°	697	697	701	691	683	667	644	620	595	566	537
15°	727	734	744	740	729	712	683	654	622	589	553
17.5°	768	785	798	793	784	763	728	692	654	608	567
20°	822	839	855	853	840	816	775	730	685	631	580
22.5°	862	879	899	901	885	861	819	764	709	648	588
25°	890	912	931	938	925	899	856	794	728	660	592
27.5°	908	939	956	964	951	928	883	815	743	668	591
30°	923	956	981	993	982	953	902	830	751	669	588
32.5°	936	972	1001	1014	1000	969	919	839	755	665	576
35°	927	972	1005	1022	1016	980	924	844	751	656	565
37.5°	905	966	1006	1020	1020	987	931	840	741	641	548
40°	864	941	993	1017	1023	995	932	834	729	622	530
41°	847	928	985	1015	1023	995	929	831	724	616	523
42.5°	821	903	973	1011	1019	993	928	825	712	603	512
45°	774	863	938	992	1007	984	919	809	691	581	488
47.5°	723	814	893	960	985	959	893	784	662	550	462
50°	678	760	847	914	938	916	853	748	623	513	428
52.5°	636	704	788	854	886	866	803	698	575	467	387
55°	595	657	729	796	820	806	744	642	519	417	343
57.5°	553	608	666	732	746	725	661	562	450	359	292
60°	510	558	605	654	656	625	571	479	373	294	240
62.5°	470	508	546	579	588	557	500	415	315	240	192
65°	425	459	489	514	525	497	443	362	269	200	156
67.5°	377	407	432	453	464	439	391	314	228	166	127
70°	327	352	375	393	402	380	337	267	190	136	103
72.5°	276	299	318	329	338	322	282	223	154	109	82
75°	224	239	256	265	271	256	228	176	121	84	63
77.5°	174	188	197	204	203	193	172	133	90	62	46
80°	125	132	139	144	142	135	120	92	62	42	31
82.5°	80	83	88	90	87	84	74	56	37	24	18
85°	42	42	45	44	43	42	37	29	17	10	7
87.5°	13	13	14	14	13	12	11	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°	519	519	519	519	519	519	519	519	519	519	519
2.5°	513	506	501	494	487	478	472	467	465	464	459
5°	501	488	477	465	453	439	428	419	414	407	400
7.5°	496	477	459	440	424	406	391	377	367	356	348
10°	499	475	450	425	402	378	358	340	325	313	302
12.5°	505	474	442	413	384	356	334	311	295	280	268
15°	515	477	439	402	369	337	313	290	271	255	242
17.5°	521	477	434	394	357	324	297	273	252	235	220
20°	525	474	425	382	344	311	283	258	235	216	200
22.5°	526	470	417	372	333	299	270	243	219	199	181
25°	521	460	407	362	324	288	257	229	203	182	164
27.5°	517	451	398	353	314	277	244	214	187	166	147
30°	508	440	389	343	300	262	227	196	167	143	124
32.5°	495	430	378	330	287	243	205	171	142	121	106
35°	485	419	365	312	265	218	178	145	120	103	90
37.5°	471	404	348	292	238	189	150	123	102	88	77
40°	452	388	327	264	208	161	128	105	87	75	65
41°	445	381	318	252	196	151	120	98	82	70	61
42.5°	434	369	303	234	179	138	109	89	74	64	56
45°	410	343	271	203	154	118	93	75	63	55	50
47.5°	387	311	239	175	132	101	78	64	56	51	47
50°	351	275	205	150	113	85	66	57	51	47	43
52.5°	311	239	174	128	95	72	58	52	47	43	40
55°	269	202	147	108	80	62	52	47	43	40	37
57.5°	228	165	123	90	67	54	47	43	40	37	34
60°	185	135	103	75	56	47	42	39	36	34	31
62.5°	150	111	85	62	48	42	38	35	32	30	28
65°	119	92	70	51	41	37	33	31	29	27	25
67.5°	97	75	57	43	35	32	29	26	24	23	21
70°	78	61	46	35	30	26	24	22	20	19	18
72.5°	62	48	36	28	24	21	19	17	16	15	14
75°	48	37	27	21	18	16	14	13	12	12	11
77.5°	35	26	19	15	13	11	10	10	9	8	8
80°	23	16	11	9	8	7	7	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	1	1	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°	519	519	519	519
2.5°	457	456	462	456
5°	397	394	394	391
7.5°	342	337	337	334
10°	293	287	287	284
12.5°	258	252	249	247
15°	231	224	222	220
17.5°	209	200	199	196
20°	188	179	175	173
22.5°	168	158	155	153
25°	150	140	136	133
27.5°	132	121	117	114
30°	112	102	98	96
32.5°	95	87	84	83
35°	81	74	72	71
37.5°	68	63	61	60
40°	59	54	53	52
41°	55	51	50	49
42.5°	51	48	47	46
45°	47	44	43	42
47.5°	44	41	40	39
50°	40	38	37	36
52.5°	38	36	34	34
55°	35	33	32	32
57.5°	32	31	30	29
60°	30	28	27	27
62.5°	27	25	25	24
65°	24	22	22	21
67.5°	20	19	19	18
70°	17	16	16	16
72.5°	14	13	13	13
75°	10	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)