

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: P208574

Luminaire Tested: **XTOR12B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P208574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27811)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: XTOR12B
Description: CROSSTOUR 102W WALL MOUNT LED

Light Source: EATON LED 5000K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12727.9 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 0.38' x L: 0.71' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

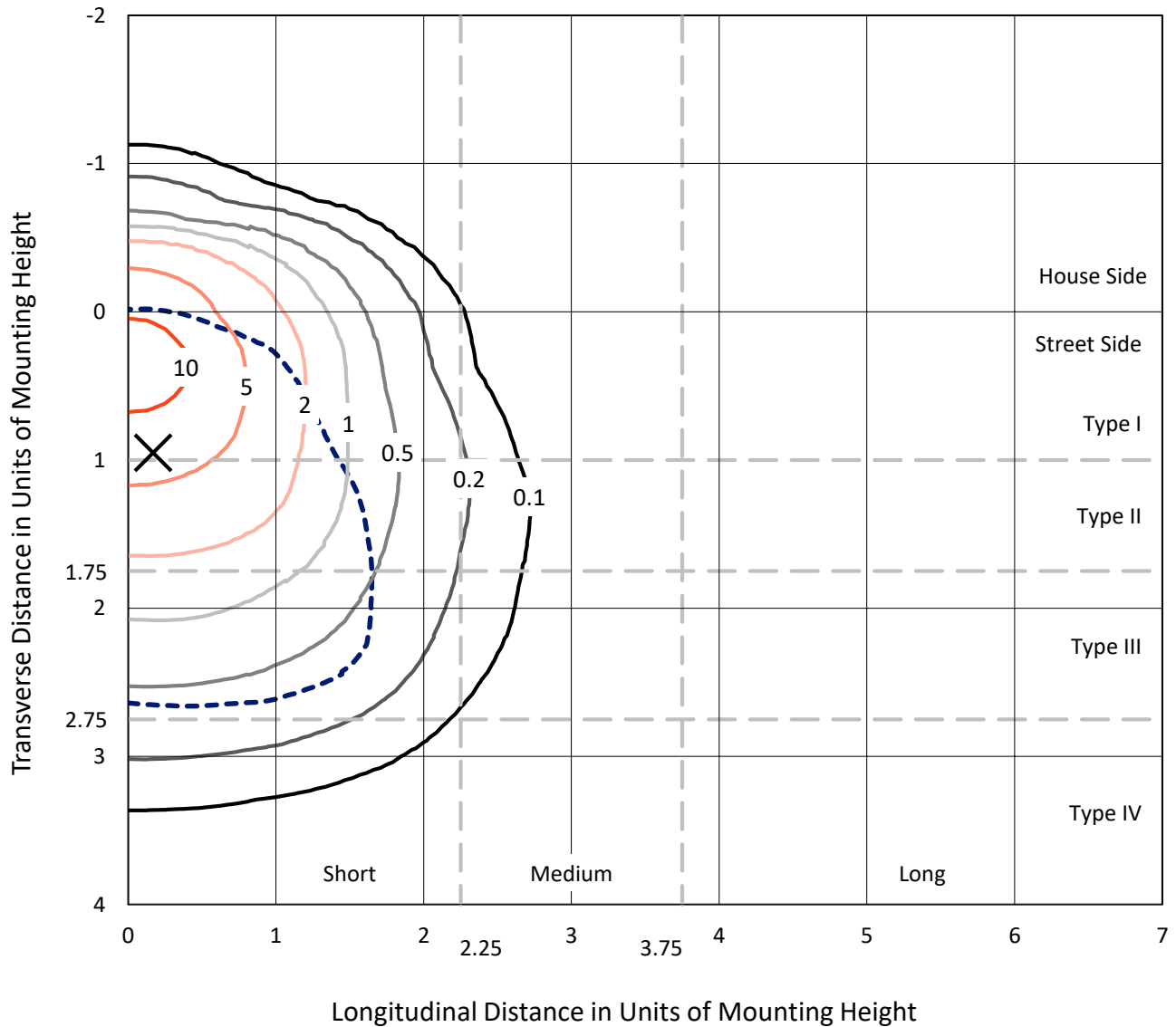
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

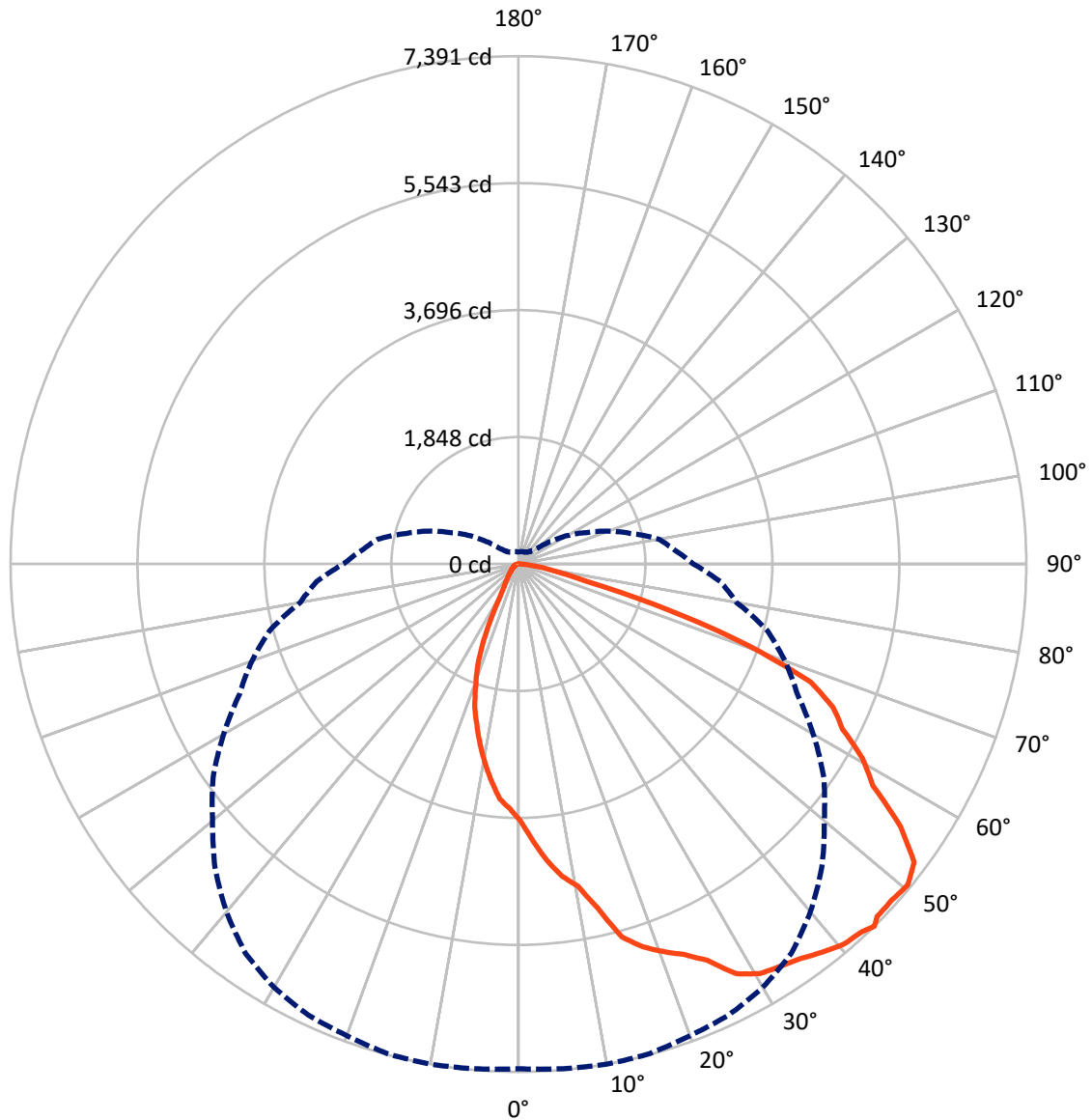
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 10-Deg Lateral - - - Horizontal Cone Through 44-Deg Vertical

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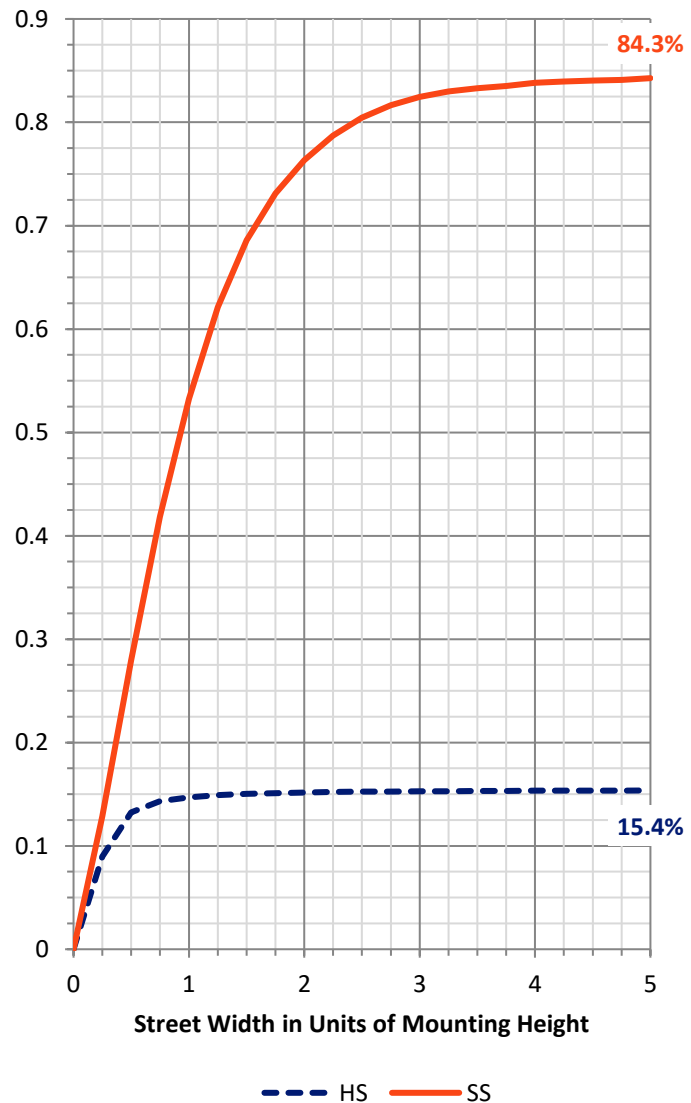
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1979.9	0.0	1979.9
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	10748.0	0.0	10748.0
	% Fixture	84.4	0.0	84.4
Total	Lumens	12727.9	0.0	12727.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.9	2.9
10°-20°	1099.1	8.6
20°-30°	1727.5	13.6
30°-40°	2174.3	17.1
40°-50°	2473.5	19.4
50°-60°	2381.7	18.7
60°-70°	1769.3	13.9
70°-80°	664.8	5.2
80°-90°	70.9	0.6
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°	12727.9	100.0
0°-180°	12727.9	100.0



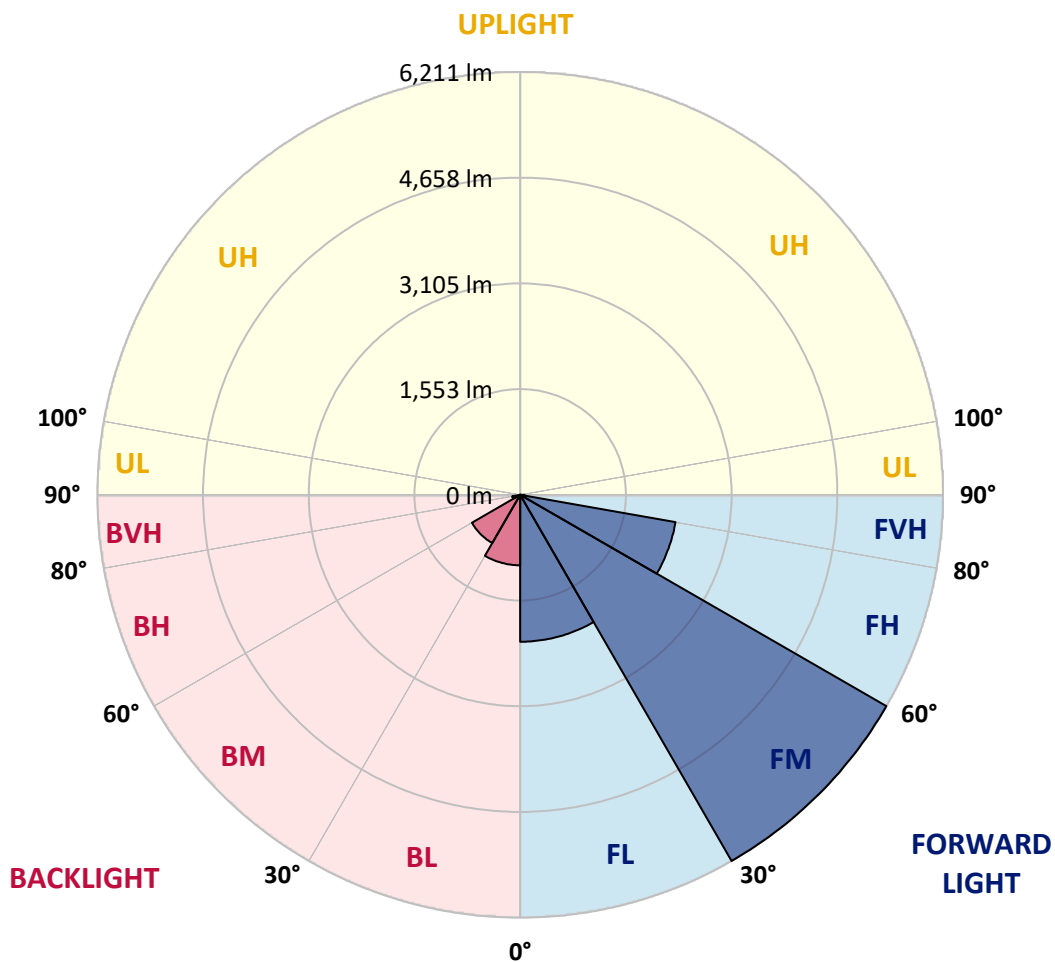
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2157.9	17.0			
FM	(30°-60°)	6210.6	48.8			
FH	(60°-80°)	2317.0	18.2			G2/5000
FVH	(80°-90°)	62.6	0.5			G1/100
BL	(0°-30°)	1035.5	8.1	B3/2500		
BM	(30°-60°)	818.9	6.4	B1/1000		
BH	(60°-80°)	117.2	0.9	B1/500		G1/500
BVH	(80°-90°)	8.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3739	3739	3739	3739	3739	3739	3739	3739	3739	3739	3739
2.5°	4027	4052	4032	4030	4017	4030	4008	3989	3968	3955	3927
5°	4338	4355	4336	4334	4319	4317	4296	4272	4252	4239	4204
7.5°	4583	4583	4588	4593	4592	4589	4571	4527	4493	4442	4378
10°	4773	4779	4770	4763	4761	4738	4693	4642	4614	4593	4548
12.5°	5165	5183	5141	5104	5053	4987	4882	4825	4777	4712	4621
15°	5663	5672	5631	5597	5550	5457	5325	5215	5040	4875	4776
17.5°	5900	5884	5856	5847	5843	5813	5725	5615	5432	5229	4979
20°	6050	6039	6021	5998	5971	5935	5873	5808	5721	5543	5267
22.5°	6194	6174	6174	6153	6138	6088	5997	5909	5820	5710	5529
25°	6406	6398	6389	6372	6352	6267	6136	6085	5932	5780	5657
27.5°	6758	6739	6753	6713	6651	6482	6352	6272	6052	5909	5708
30°	6910	6894	6918	6894	6870	6782	6668	6447	6219	5998	5807
32.5°	6953	6958	6985	6981	6970	6882	6803	6660	6446	6090	5842
35°	7069	7067	7055	7033	7002	6923	6871	6727	6576	6289	5884
37.5°	7208	7186	7170	7143	7112	7016	6899	6733	6618	6372	6026
40°	7292	7277	7280	7290	7253	7115	6975	6779	6573	6376	6047
42.5°	7351	7329	7321	7336	7314	7200	7094	6847	6583	6306	5959
44°	7345	7373	7391	7376	7304	7241	7113	6920	6610	6246	5811
45°	7318	7306	7319	7350	7344	7226	7134	6925	6653	6243	5796
47.5°	7313	7311	7311	7298	7264	7164	7136	6919	6678	6201	5623
50°	7316	7333	7342	7298	7267	7139	7044	6828	6589	6080	5469
52.5°	7135	7161	7210	7239	7244	7178	7048	6755	6341	5854	5244
55°	6583	6612	6748	6870	6965	7025	6957	6688	6173	5501	4920
57.5°	5894	5937	6082	6231	6417	6528	6615	6420	5957	5281	4576
60°	5494	5584	5755	5839	5886	5999	6041	5909	5598	5050	4341
62.5°	4981	5102	5293	5395	5559	5575	5538	5381	5063	4607	3990
65°	4813	4903	5035	5100	5077	4963	4966	4926	4590	4020	3507
67.5°	4349	4439	4586	4677	4742	4701	4592	4342	3955	3499	2947
70°	3370	3439	3541	3633	3825	3888	3949	3784	3345	2797	2390
72.5°	2167	2193	2268	2356	2564	2678	2814	2761	2536	2217	1897
75°	999	1009	1061	1082	1238	1380	1525	1579	1517	1456	1389
77.5°	621	629	648	657	696	723	756	715	694	659	747
80°	396	399	406	423	449	468	493	460	402	347	327
82.5°	234	237	243	245	266	281	296	279	234	199	175
85°	118	117	117	124	132	139	144	139	113	100	81
87.5°	31	30	30	29	34	40	39	40	32	29	24
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°	3739	3739	3739	3739	3739	3739	3739	3739	3739	3739	3739
2.5°	3910	3897	3879	3860	3828	3797	3768	3731	3700	3685	3668
5°	4157	4096	4014	3953	3900	3867	3801	3746	3693	3676	3660
7.5°	4308	4257	4195	4107	3970	3889	3826	3746	3678	3655	3602
10°	4463	4383	4277	4186	4068	3910	3820	3724	3637	3603	3529
12.5°	4577	4506	4383	4247	4127	3966	3814	3704	3601	3547	3484
15°	4682	4565	4490	4341	4173	4024	3809	3685	3567	3492	3444
17.5°	4759	4659	4512	4403	4214	4038	3800	3646	3517	3420	3356
20°	4981	4696	4566	4403	4238	4025	3782	3578	3435	3334	3220
22.5°	5241	4891	4563	4387	4231	3996	3735	3492	3325	3230	3077
25°	5454	5107	4667	4389	4173	3951	3669	3390	3206	3118	2942
27.5°	5549	5275	4806	4331	4111	3893	3579	3276	3075	2983	2779
30°	5532	5347	4935	4402	4057	3810	3478	3148	2939	2832	2599
32.5°	5577	5271	4974	4440	3920	3700	3393	3019	2823	2688	2437
35°	5554	5247	4939	4482	3889	3605	3317	2918	2713	2554	2283
37.5°	5547	5162	4788	4471	3889	3537	3225	2827	2604	2430	2134
40°	5604	5101	4721	4432	3867	3400	3121	2728	2488	2300	1969
42.5°	5551	5025	4556	4220	3794	3270	3016	2615	2362	2159	1815
44°	5426	4955	4477	4128	3749	3223	2949	2544	2287	2077	1709
45°	5381	4891	4388	4048	3728	3183	2902	2496	2232	2017	1651
47.5°	5119	4683	4244	3834	3531	3034	2753	2349	2057	1833	1460
50°	4844	4377	4018	3569	3274	2883	2546	2181	1862	1615	1248
52.5°	4627	4071	3683	3301	2982	2676	2312	1972	1636	1381	1034
55°	4374	3780	3312	2980	2685	2401	2042	1704	1403	1148	834
57.5°	3982	3472	2978	2580	2294	2029	1680	1415	1146	917	660
60°	3632	3101	2666	2208	1830	1572	1298	1125	900	711	501
62.5°	3394	2786	2320	1898	1478	1207	1014	902	702	550	374
65°	2990	2525	2030	1588	1238	902	789	706	548	422	283
67.5°	2510	2137	1755	1347	1008	687	600	525	418	319	212
70°	2006	1734	1435	1072	791	542	435	368	321	239	159
72.5°	1566	1355	1167	816	588	403	302	256	237	176	121
75°	1276	1101	921	680	420	283	188	170	171	126	91
77.5°	807	823	696	515	339	177	111	95	111	90	66
80°	326	340	347	272	177	89	50	45	59	59	46
82.5°	163	143	120	109	71	39	30	28	30	34	29
85°	75	64	48	37	27	21	18	17	17	18	17
87.5°	23	20	17	16	15	14	13	13	13	13	12
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°	3739	3739	3739	3739	3739	3739	3739	3739	3739	3739	3739
2.5°	3653	3652	3642	3637	3619	3606	3592	3579	3578	3553	3562
5°	3624	3592	3563	3550	3536	3539	3526	3501	3493	3452	3446
7.5°	3552	3531	3522	3482	3425	3385	3355	3318	3294	3237	3212
10°	3502	3465	3395	3333	3272	3196	3135	3091	3048	3001	2967
12.5°	3445	3348	3280	3169	3093	3020	2942	2873	2818	2759	2717
15°	3341	3248	3120	3029	2919	2826	2728	2651	2582	2526	2488
17.5°	3237	3087	2971	2843	2723	2616	2504	2427	2363	2297	2259
20°	3088	2932	2782	2627	2508	2385	2302	2213	2128	2022	1959
22.5°	2906	2744	2581	2415	2293	2192	2077	1946	1836	1743	1682
25°	2746	2551	2375	2217	2094	1953	1798	1675	1587	1476	1371
27.5°	2563	2347	2165	2019	1851	1662	1550	1421	1273	1114	988
30°	2369	2145	1958	1792	1575	1420	1254	1082	913	752	645
32.5°	2182	1949	1768	1544	1342	1160	931	735	598	499	445
35°	2014	1771	1550	1310	1098	863	635	485	414	380	357
37.5°	1848	1605	1315	1110	842	600	425	351	327	314	300
40°	1674	1413	1129	893	610	408	315	283	270	260	248
42.5°	1503	1204	949	683	425	303	257	234	221	215	208
44°	1400	1082	830	570	350	266	231	210	200	194	190
45°	1333	1006	759	502	313	246	215	197	188	182	178
47.5°	1146	843	593	366	249	208	184	170	162	156	152
50°	939	691	452	279	208	179	161	149	141	136	132
52.5°	739	547	338	223	179	157	141	130	124	120	117
55°	581	420	252	184	154	138	124	115	110	108	105
57.5°	461	316	196	153	134	120	110	103	99	96	93
60°	355	235	155	130	116	106	98	92	88	86	84
62.5°	266	175	130	111	100	94	87	82	79	78	77
65°	200	133	108	95	87	82	77	74	72	70	70
67.5°	153	105	90	83	75	71	69	66	65	63	62
70°	117	85	76	70	65	62	61	59	57	56	55
72.5°	91	70	63	59	55	54	53	51	50	49	49
75°	70	56	52	48	47	45	45	44	43	43	43
77.5°	52	44	41	39	37	37	37	37	36	36	36
80°	38	33	31	29	29	29	29	29	28	29	28
82.5°	25	22	21	21	21	21	21	20	19	20	19
85°	15	14	14	13	13	12	12	12	11	11	11
87.5°	11	11	10	10	9	9	8	8	7	6	5
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3739	3739	3739	3739
2.5°	3561	3563	3554	3554
5°	3439	3432	3417	3424
7.5°	3193	3192	3165	3177
10°	2940	2936	2912	2925
12.5°	2687	2679	2656	2669
15°	2433	2415	2405	2415
17.5°	2204	2175	2166	2161
20°	1884	1853	1843	1835
22.5°	1617	1580	1566	1549
25°	1270	1212	1185	1156
27.5°	882	819	791	761
30°	567	530	514	498
32.5°	413	396	390	384
35°	342	331	327	322
37.5°	287	277	272	268
40°	239	232	227	224
42.5°	203	199	195	193
44°	186	182	178	175
45°	174	171	167	165
47.5°	149	147	145	143
50°	130	130	128	126
52.5°	116	116	114	114
55°	104	103	102	101
57.5°	92	91	90	90
60°	83	83	82	82
62.5°	76	76	74	74
65°	68	68	67	67
67.5°	62	61	60	60
70°	55	54	53	53
72.5°	49	48	47	47
75°	43	42	41	41
77.5°	36	36	35	34
80°	28	28	27	27
82.5°	19	19	18	17
85°	11	11	10	10
87.5°	5	4	4	4
90°	0	0	0	0

(END OF REPORT)