

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: STREETWORKS

Report Number: P175624

Luminaire Tested: **VERD-G-A02-E-U-T3-AP**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P175624  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26224)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-A02-E-U-T3-AP  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K LEDS AND TYPE III OPTICS, GREY PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15182.1 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type III - Medium - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 143  
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: 28.75 FT

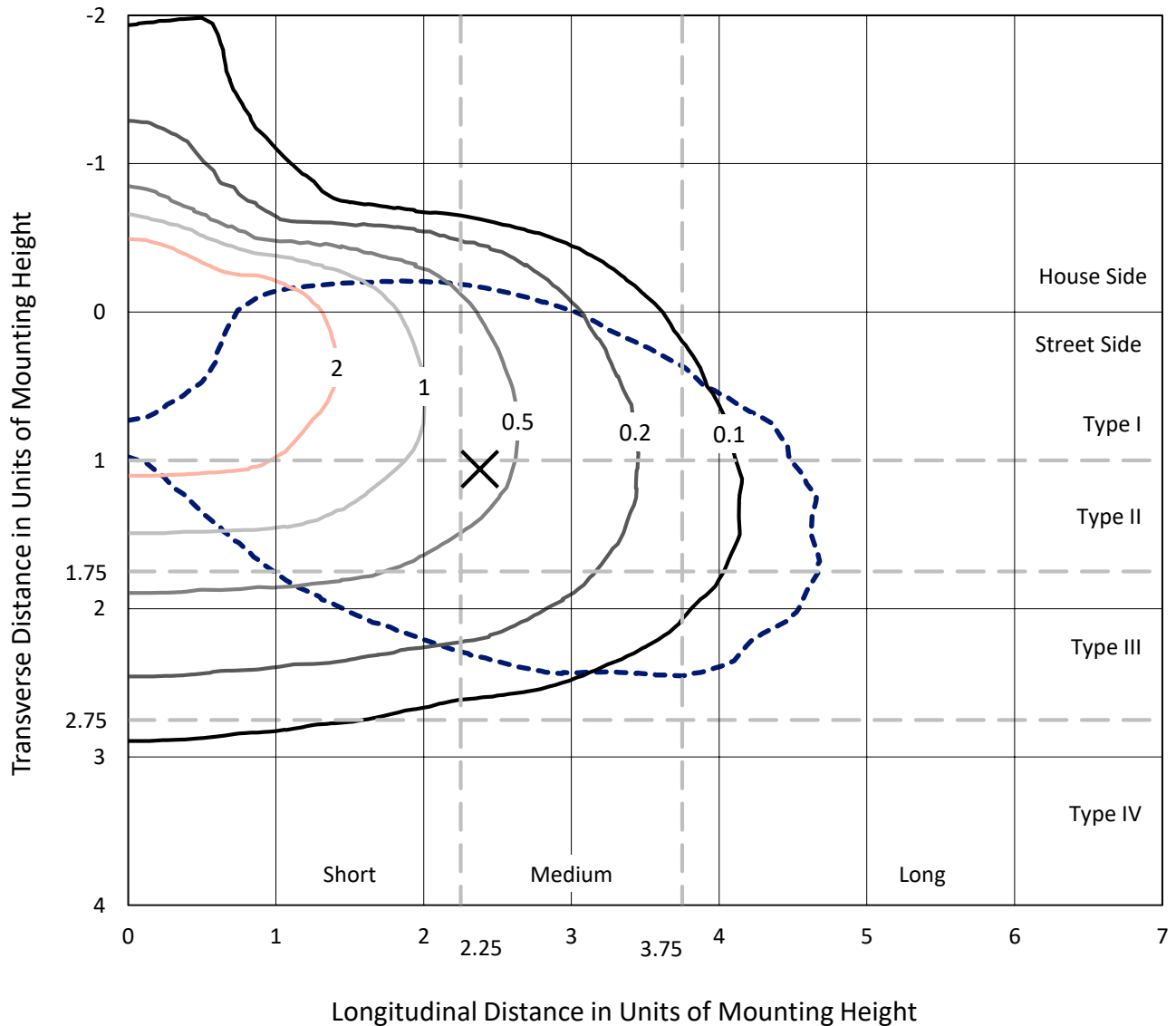


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

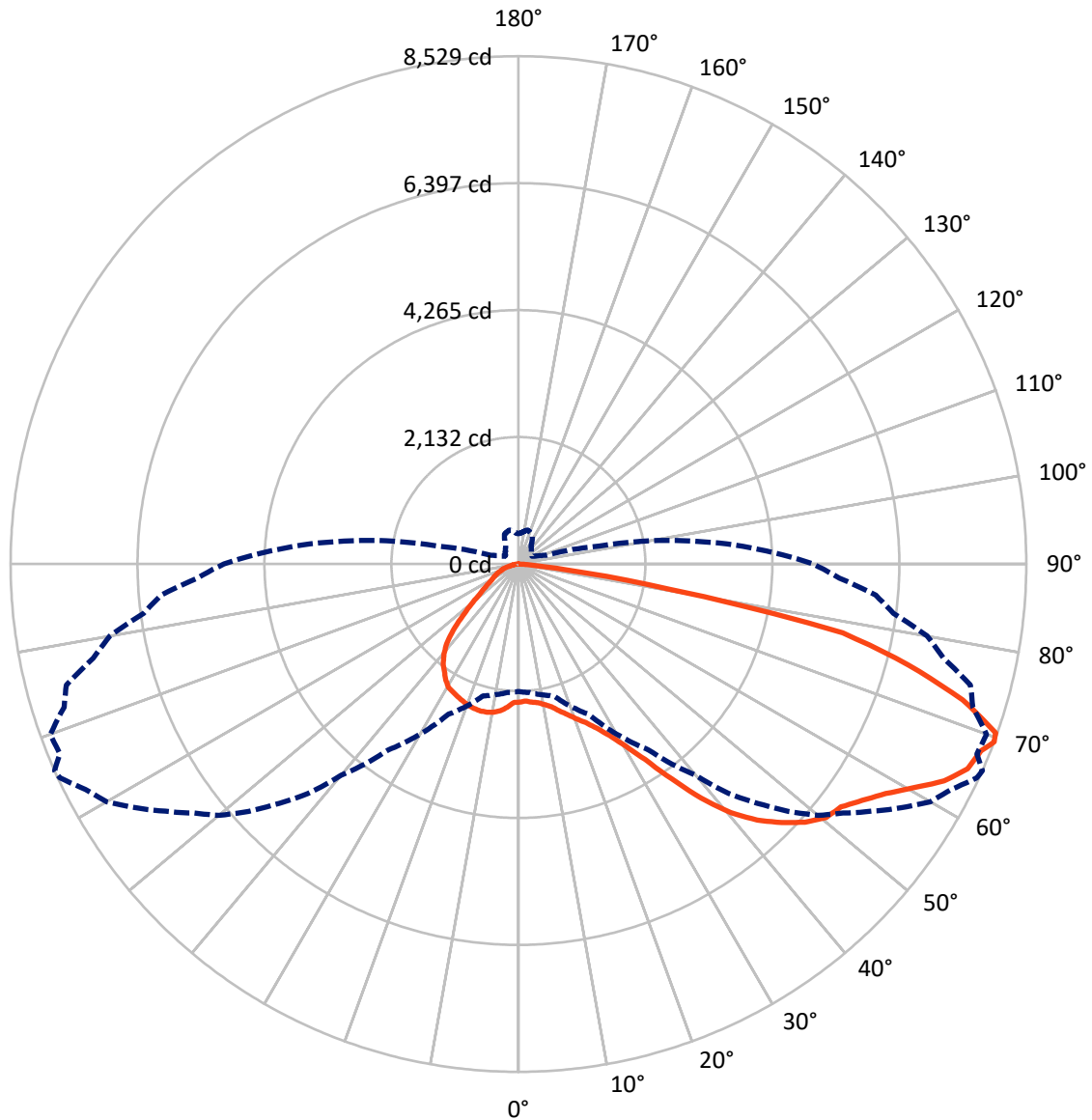


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type III - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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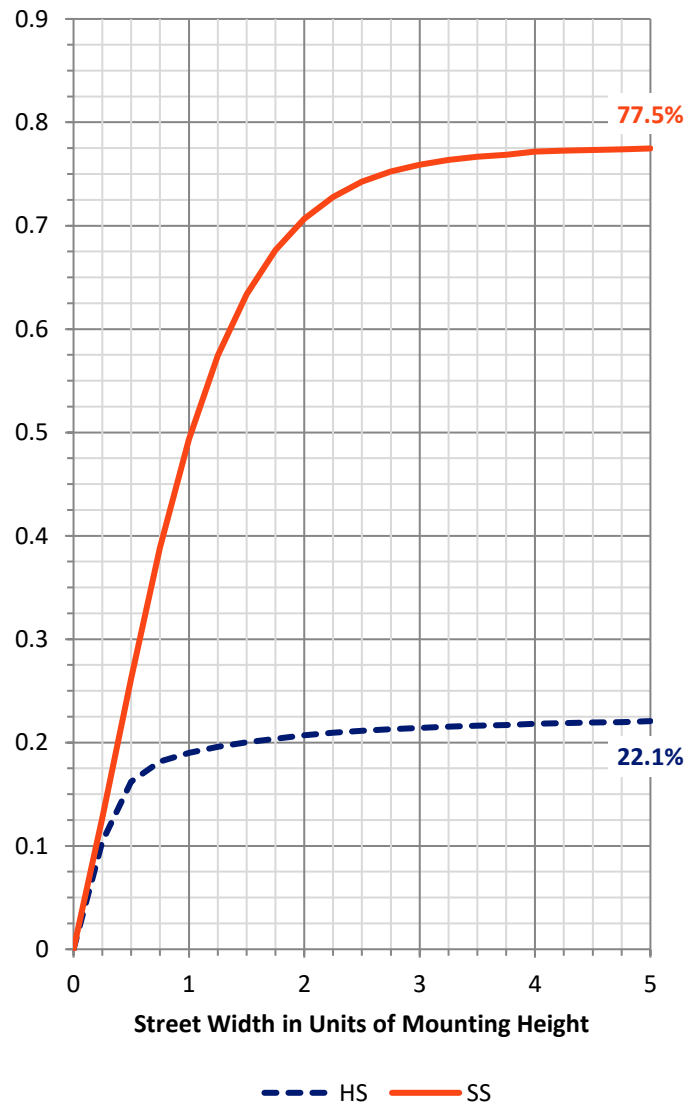
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3411.6	0.0	3411.6
	% Fixture	22.5	0.0	22.5
<b>Street Side</b>	Lumens	11770.5	0.0	11770.5
	% Fixture	77.5	0.0	77.5
<b>Total</b>	Lumens	15182.1	0.0	15182.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.6	1.5
10°-20°	742.4	4.9
20°-30°	1271.4	8.4
30°-40°	1906.5	12.6
40°-50°	2594.0	17.1
50°-60°	3052.1	20.1
60°-70°	3205.0	21.1
70°-80°	1985.7	13.1
80°-90°	191.3	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°	15182.1	100.0
0°-180°	15182.1	100.0



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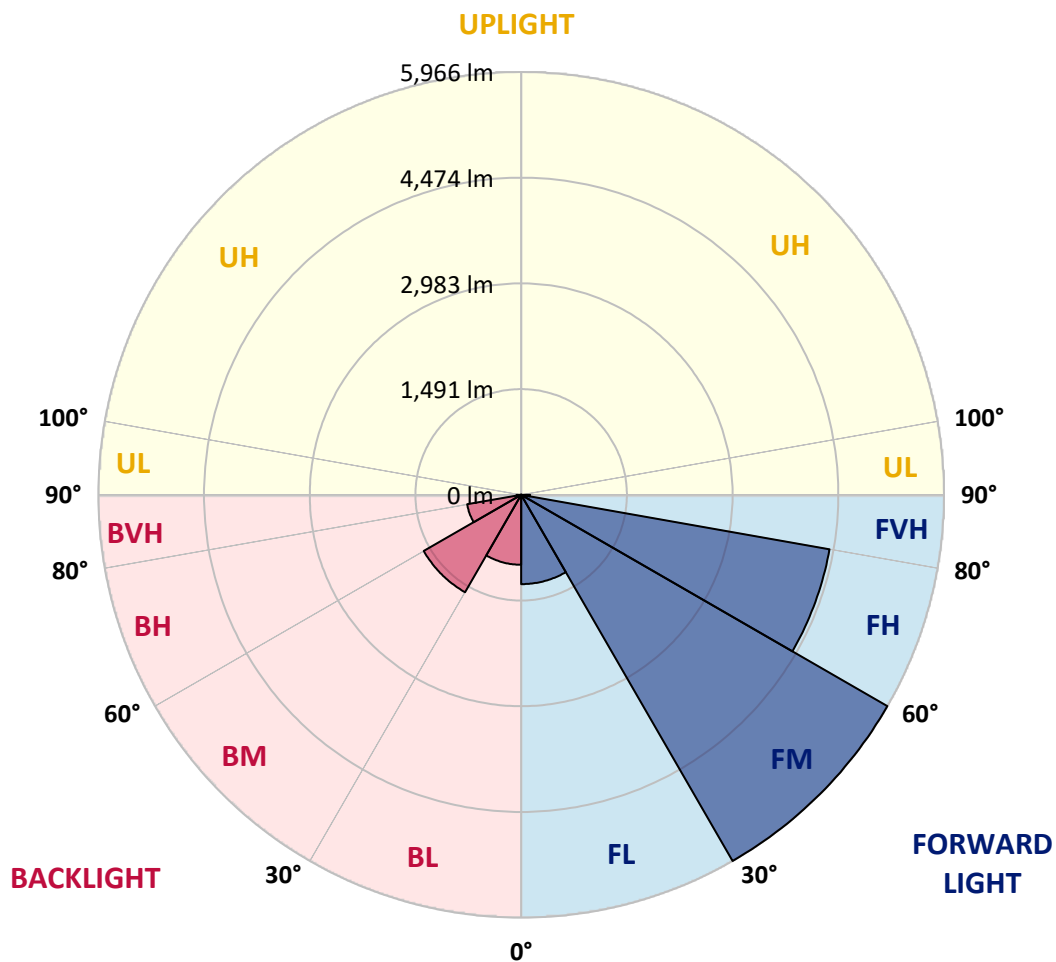
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1260.4	8.3			
FM (30°-60°)	5965.7	39.3			
FH (60°-80°)	4417.2	29.1			G2/5000
FVH (80°-90°)	127.2	0.8			G2/225
BL (0°-30°)	987.0	6.5	B2/1000		
BM (30°-60°)	1587.0	10.5	B2/2500		
BH (60°-80°)	773.5	5.1	B2/1000		G2/1000
BVH (80°-90°)	64.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	2319	2319	2319	2319	2319	2319	2319	2319	2319	2319	2319
2.5°	2357	2357	2332	2328	2324	2312	2304	2304	2296	2304	2308
5°	2405	2393	2367	2365	2353	2353	2353	2340	2332	2328	2328
7.5°	2474	2460	2440	2422	2407	2397	2373	2393	2379	2377	2379
10°	2584	2574	2537	2533	2499	2487	2466	2466	2458	2454	2442
12.5°	2686	2682	2643	2635	2598	2580	2568	2564	2546	2540	2521
15°	2836	2818	2789	2775	2726	2714	2690	2670	2659	2653	2647
17.5°	2974	2964	2934	2911	2856	2840	2812	2808	2775	2763	2747
20°	3133	3116	3086	3076	3037	2995	2958	2958	2919	2885	2879
22.5°	3303	3285	3244	3238	3202	3181	3133	3116	3070	3043	3005
25°	3494	3470	3442	3433	3405	3393	3332	3324	3255	3230	3202
27.5°	3661	3671	3657	3647	3626	3604	3559	3559	3478	3466	3425
30°	3888	3872	3880	3874	3848	3844	3815	3811	3740	3746	3677
32.5°	4063	4067	4086	4090	4098	4104	4075	4047	4002	4031	3958
35°	4201	4201	4268	4358	4374	4437	4400	4388	4313	4380	4303
37.5°	4315	4321	4368	4482	4591	4665	4652	4677	4618	4726	4669
40°	4400	4402	4484	4622	4805	4908	4916	4953	4931	5067	5044
42.5°	4319	4331	4482	4752	4996	5128	5172	5258	5268	5428	5424
45°	4222	4238	4407	4799	5160	5331	5428	5571	5601	5786	5788
47.5°	4132	4159	4331	4764	5309	5530	5668	5843	5912	6074	6085
50°	4047	4071	4260	4738	5441	5713	5884	6091	6158	6314	6308
52.5°	3868	3897	4118	4650	5504	5802	5985	6172	6274	6448	6436
55°	3702	3738	3958	4545	5508	5819	6026	6209	6326	6521	6513
57.5°	3515	3529	3758	4380	5428	5770	5973	6209	6328	6558	6593
60°	3267	3305	3519	4155	5286	5688	5965	6241	6387	6684	6755
62.5°	3035	3056	3263	3888	5044	5506	5827	6172	6412	6737	6918
65°	2739	2773	2952	3535	4695	5164	5542	5969	6300	6676	6928
67.5°	2377	2403	2558	3100	4177	4636	5063	5603	6001	6387	6727
69°	2141	2168	2292	2783	3811	4234	4632	5229	5682	6148	6566
70°	1967	1981	2107	2552	3533	3941	4287	4916	5416	5997	6436
72.5°	1483	1503	1597	1938	2704	3076	3385	3893	4467	5177	5656
75°	1008	1006	1095	1304	1692	1934	2198	2661	3163	3791	4429
77.5°	333	341	396	589	762	821	857	1028	1440	1788	2460
80°	130	134	221	293	380	410	431	508	581	674	861
82.5°	81	112	154	175	177	167	158	191	238	297	347
85°	53	71	71	75	75	69	53	77	106	118	142
87.5°	28	43	41	35	26	16	0	8	16	20	10
90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	52.5°	55°	57.5°	60°	62.5°	65°	66°	67.5°	70°	72.5°	75°
0°	2319	2319	2319	2319	2319	2319	2319	2319	2319	2319	2319
2.5°	2308	2306	2284	2306	2292	2304	2304	2284	2310	2316	2322
5°	2324	2330	2320	2322	2320	2324	2330	2324	2336	2344	2336
7.5°	2361	2371	2340	2363	2336	2340	2351	2340	2367	2373	2365
10°	2426	2426	2418	2418	2401	2403	2399	2393	2401	2385	2407
12.5°	2491	2495	2470	2485	2462	2462	2458	2446	2458	2454	2454
15°	2600	2609	2576	2590	2564	2560	2558	2556	2550	2535	2556
17.5°	2718	2712	2690	2674	2653	2657	2655	2657	2645	2637	2649
20°	2840	2838	2816	2798	2779	2771	2773	2771	2759	2763	2765
22.5°	3003	2966	2970	2930	2917	2903	2893	2913	2885	2921	2893
25°	3190	3147	3161	3096	3084	3058	3053	3080	3056	3112	3082
27.5°	3401	3356	3360	3307	3287	3263	3263	3320	3285	3336	3279
30°	3669	3628	3661	3570	3572	3541	3545	3624	3576	3641	3574
32.5°	3994	3927	3978	3895	3925	3895	3917	4027	3978	4075	3956
35°	4348	4283	4380	4319	4388	4409	4431	4575	4547	4669	4573
37.5°	4766	4723	4811	4805	4937	4953	4988	5172	5138	5302	5179
40°	5189	5142	5298	5266	5441	5459	5493	5693	5632	5729	5585
42.5°	5558	5546	5652	5650	5823	5841	5877	6026	5953	5989	5853
45°	5936	5896	6022	5997	6184	6178	6194	6339	6270	6253	6121
47.5°	6192	6164	6298	6274	6465	6450	6479	6562	6475	6481	6347
50°	6436	6402	6521	6499	6651	6672	6694	6745	6639	6566	6458
52.5°	6566	6499	6599	6611	6753	6753	6779	6806	6757	6749	6654
55°	6615	6588	6680	6704	6903	6962	7005	7050	7027	7013	6899
57.5°	6729	6712	6879	6938	7151	7224	7271	7363	7318	7228	7086
60°	6977	7013	7212	7265	7533	7596	7629	7667	7645	7513	7338
62.5°	7143	7257	7501	7629	7907	8009	8025	8021	7931	7744	7560
65°	7196	7367	7696	7911	8183	8283	8289	8256	8187	7923	7728
67.5°	7042	7316	7696	7952	8240	8376	8378	8301	8293	7984	7830
69°	6871	7239	7619	7984	8195	8498	8529	8334	8366	8000	7860
70°	6781	7182	7594	7984	8240	8458	8504	8378	8328	7923	7753
72.5°	6087	6550	7127	7484	7659	7818	7801	7728	7677	7269	7121
75°	4945	5396	5932	6290	6460	6743	6763	6692	6729	6318	6213
77.5°	3047	3789	4352	4880	5055	5498	5569	5554	5634	5262	5148
80°	1004	1280	1544	1979	1918	2462	2570	2572	2722	2105	2334
82.5°	382	475	565	677	715	768	774	752	819	731	723
85°	114	130	114	132	134	165	146	110	150	118	112
87.5°	8	12	12	26	0	26	16	12	12	16	14
90°	0	0	0	0	0	0	0	0	0	0	0





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**CANDELA DISTRIBUTION (continued):**

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	2319	2319	2319	2319	2319	2319	2319	2319	2319	2319	2319
2.5°	2320	2312	2316	2314	2316	2326	2320	2308	2312	2322	2308
5°	2340	2328	2353	2312	2336	2349	2353	2357	2357	2359	2377
7.5°	2365	2342	2365	2363	2377	2379	2395	2409	2426	2418	2434
10°	2405	2407	2414	2409	2422	2420	2446	2468	2487	2477	2479
12.5°	2495	2468	2491	2474	2491	2491	2503	2499	2531	2515	2503
15°	2584	2562	2580	2562	2576	2572	2566	2548	2572	2566	2560
17.5°	2682	2649	2674	2639	2649	2623	2600	2564	2592	2562	2548
20°	2779	2765	2763	2730	2714	2700	2641	2594	2605	2578	2535
22.5°	2897	2877	2865	2812	2795	2769	2696	2623	2605	2582	2544
25°	3072	3023	3011	2952	2938	2883	2767	2676	2649	2615	2556
27.5°	3279	3206	3186	3102	3092	3005	2889	2749	2686	2617	2568
30°	3567	3440	3433	3316	3303	3177	3013	2852	2763	2676	2588
32.5°	4010	3836	3852	3685	3669	3464	3186	2950	2824	2722	2580
35°	4689	4496	4478	4293	4246	4029	3659	3194	2954	2769	2584
37.5°	5181	5034	4990	4821	4644	4472	4047	3519	3238	2966	2641
40°	5530	5372	5274	5097	4957	4786	4337	3797	3466	3141	2763
42.5°	5798	5650	5542	5380	5237	5010	4520	3886	3543	3238	2775
45°	6046	5898	5782	5605	5449	5252	4709	3927	3535	3177	2718
47.5°	6261	6101	5936	5756	5583	5396	4833	3994	3494	3084	2527
50°	6355	6223	6083	5900	5709	5530	4916	3962	3332	2887	2279
52.5°	6542	6347	6188	6003	5794	5581	4902	3846	3092	2588	1975
55°	6753	6580	6359	6182	5920	5664	4947	3708	2881	2383	1751
57.5°	6936	6743	6477	6282	5969	5693	4847	3535	2690	2186	1560
60°	7115	6926	6627	6387	6014	5676	4750	3433	2552	2013	1329
62.5°	7277	7058	6660	6400	5944	5605	4622	3242	2312	1806	1089
65°	7379	7115	6627	6343	5839	5485	4409	2968	2048	1509	853
67.5°	7379	7070	6497	6202	5603	5191	4010	2556	1658	1182	609
69°	7314	6968	6351	6024	5396	4947	3655	2249	1398	939	484
70°	7228	6875	6184	5821	5209	4726	3397	2054	1223	776	443
72.5°	6623	6282	5506	5140	4470	4027	2769	1428	691	443	358
75°	5680	5406	4600	4240	3539	3145	1877	666	390	337	276
77.5°	4470	4191	3502	3092	2365	1985	760	356	293	234	183
80°	1796	1721	1060	1042	650	577	372	248	199	160	114
82.5°	589	575	484	445	366	347	248	173	130	106	65
85°	85	104	98	98	69	79	59	47	37	30	16
87.5°	0	6	4	10	8	12	16	16	4	16	0
90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°
0°	2319	2319	2319	2319	2319	2319	2319	2319	2319	2319	2319
2.5°	2330	2332	2326	2336	2340	2349	2349	2357	2349	2353	2383
5°	2401	2418	2409	2418	2430	2430	2448	2462	2454	2464	2519
7.5°	2454	2491	2479	2499	2501	2519	2511	2548	2533	2535	2584
10°	2509	2519	2529	2535	2540	2568	2552	2568	2574	2574	2613
12.5°	2523	2544	2546	2564	2542	2580	2560	2584	2570	2568	2594
15°	2554	2556	2542	2552	2548	2596	2570	2588	2554	2560	2578
17.5°	2537	2540	2535	2544	2529	2552	2523	2540	2513	2497	2495
20°	2554	2540	2503	2511	2495	2507	2474	2474	2438	2420	2361
22.5°	2531	2503	2474	2446	2424	2422	2391	2397	2334	2277	2206
25°	2521	2458	2442	2381	2377	2349	2288	2275	2216	2131	2036
27.5°	2535	2446	2397	2336	2292	2223	2182	2125	2052	1958	1794
30°	2513	2430	2349	2231	2194	2093	2026	1954	1881	1759	1556
32.5°	2497	2369	2251	2109	2050	1922	1863	1747	1674	1520	1264
35°	2434	2279	2137	1983	1900	1759	1662	1532	1430	1247	969
37.5°	2416	2182	2042	1824	1713	1544	1436	1272	1170	971	774
40°	2434	2084	1885	1637	1481	1284	1146	979	867	719	597
42.5°	2409	1946	1698	1377	1195	963	817	691	638	546	453
45°	2286	1767	1426	1040	863	666	567	488	473	425	402
47.5°	2078	1475	1144	760	614	488	451	414	419	402	392
50°	1826	1231	912	597	502	467	435	419	419	400	398
52.5°	1548	987	721	492	441	419	394	398	376	364	364
55°	1335	813	620	455	412	390	396	374	370	358	372
57.5°	1144	670	536	431	400	374	380	349	356	353	370
60°	933	561	486	402	372	362	349	337	333	327	360
62.5°	742	496	443	378	345	329	325	329	323	329	364
65°	585	439	408	354	327	329	315	317	327	333	378
67.5°	477	374	353	309	295	280	288	301	305	313	380
69°	419	354	317	280	264	264	262	280	293	305	370
70°	384	301	303	256	242	236	254	260	270	301	378
72.5°	325	276	272	228	230	223	230	268	254	295	390
75°	242	211	207	187	185	191	199	215	234	264	360
77.5°	173	142	158	126	136	122	142	158	177	209	323
80°	114	98	110	81	93	85	108	114	104	146	242
82.5°	73	69	71	49	59	53	57	53	67	79	154
85°	18	16	35	28	16	20	22	37	35	37	59
87.5°	0	0	14	0	4	0	4	20	16	20	16
90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	155°	165°	175°	180°
0°	2319	2319	2319	2319
2.5°	2414	2446	2438	2458
5°	2552	2594	2594	2621
7.5°	2609	2653	2653	2674
10°	2643	2690	2692	2718
12.5°	2607	2645	2653	2682
15°	2564	2572	2576	2596
17.5°	2454	2462	2466	2474
20°	2328	2316	2310	2324
22.5°	2162	2127	2105	2105
25°	1932	1914	1865	1857
27.5°	1678	1640	1601	1593
30°	1408	1355	1323	1337
32.5°	1099	1083	1083	1101
35°	878	898	906	918
37.5°	727	772	788	809
40°	563	624	677	711
42.5°	467	547	599	614
45°	445	518	565	569
47.5°	441	506	555	569
50°	443	524	567	573
52.5°	419	488	528	524
55°	439	504	524	524
57.5°	447	524	573	581
60°	465	616	668	670
62.5°	520	715	662	638
65°	612	764	677	642
67.5°	567	616	542	536
69°	551	591	526	508
70°	532	579	526	520
72.5°	538	589	459	431
75°	506	563	437	398
77.5°	479	530	431	394
80°	398	484	427	414
82.5°	274	382	370	394
85°	142	238	299	349
87.5°	47	95	140	158
90°	0	0	0	0

(END OF REPORT)