

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: P175606

Luminaire Tested: **VERD-G-A02-E-U-T2-AP**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P175606  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26223)  
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-T2-AP  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K LEDS AND TYPE II OPTICS, GREY PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15332.1 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G3

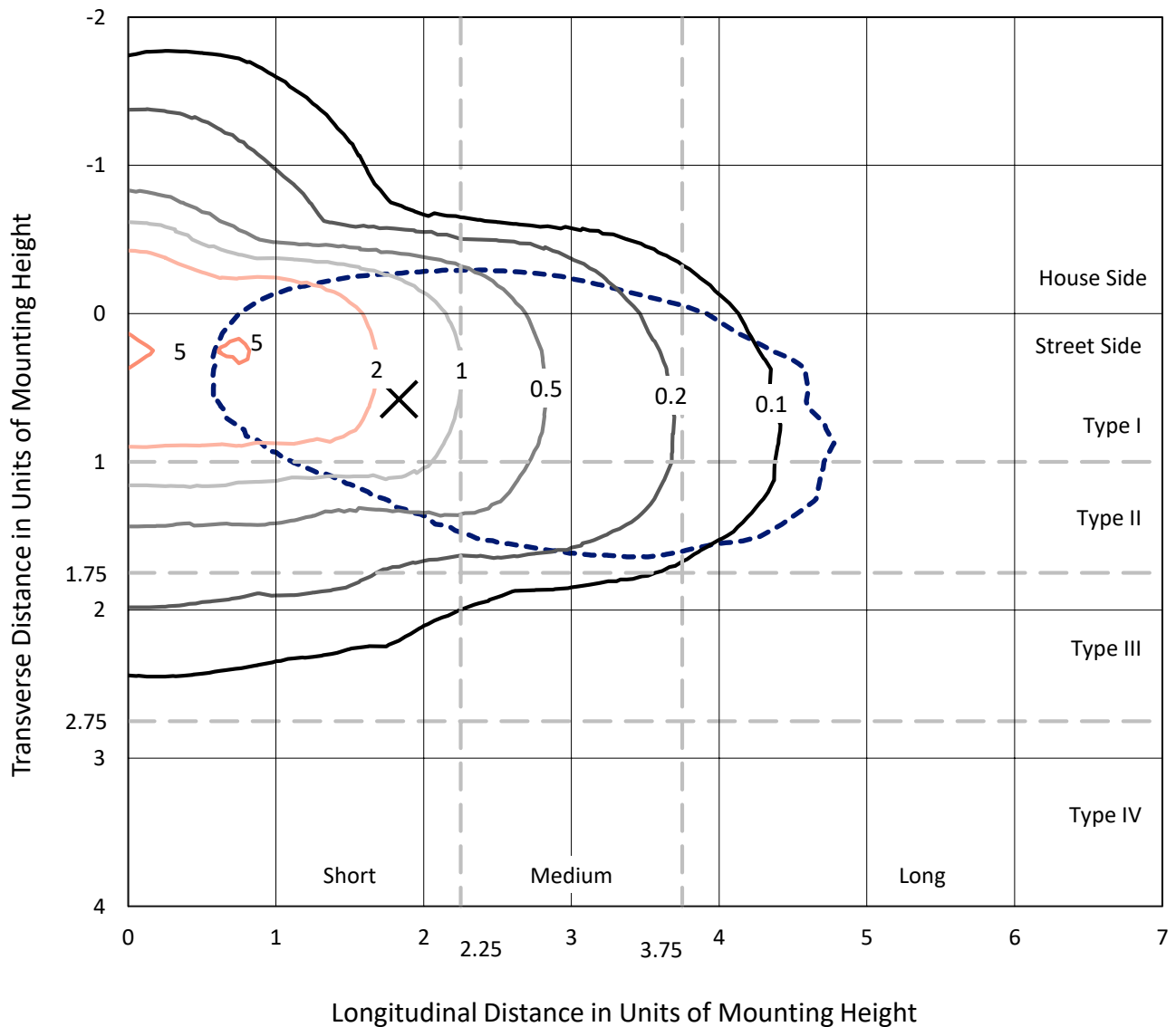
Input Watts (W): 143  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

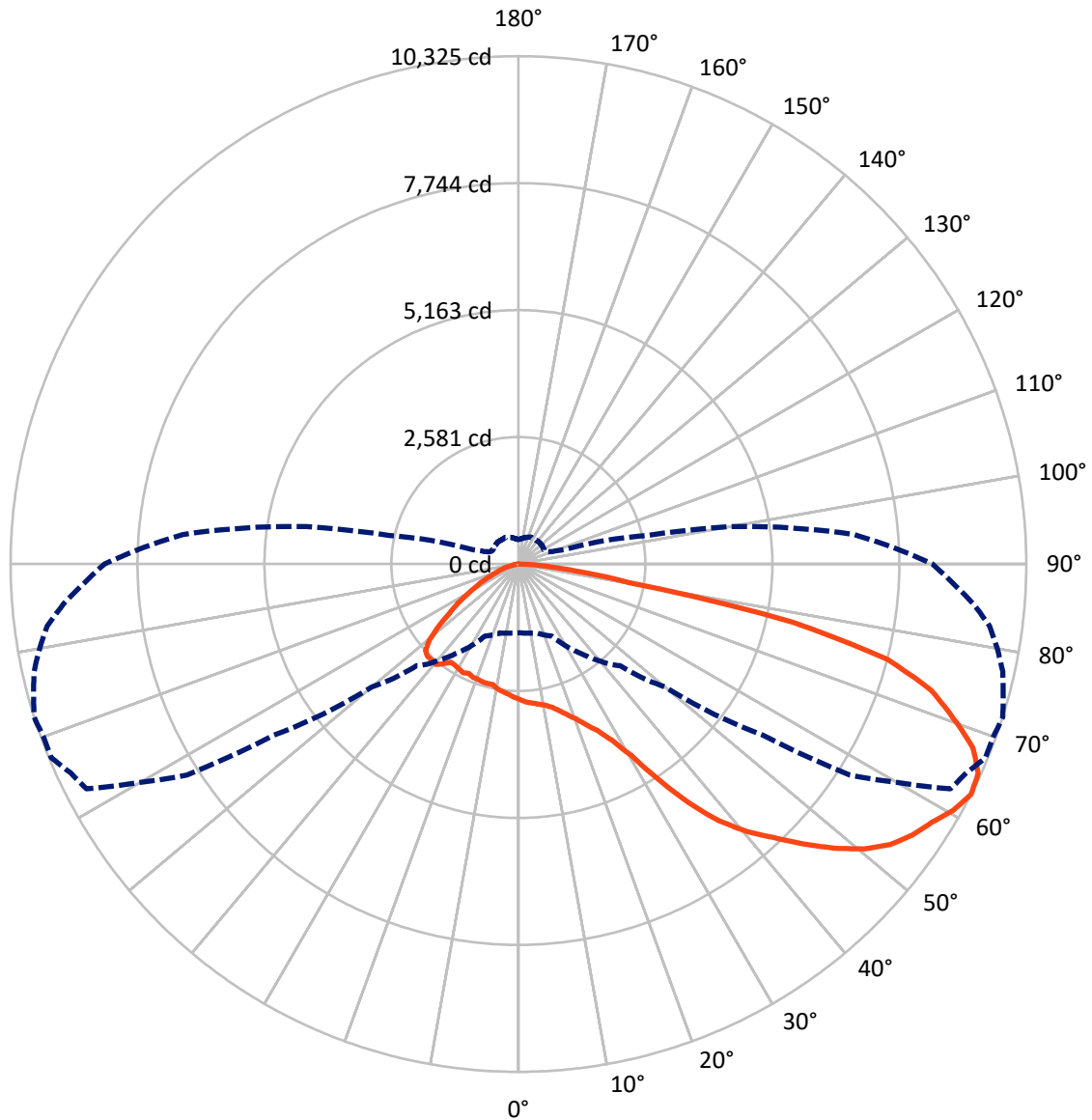


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72.5-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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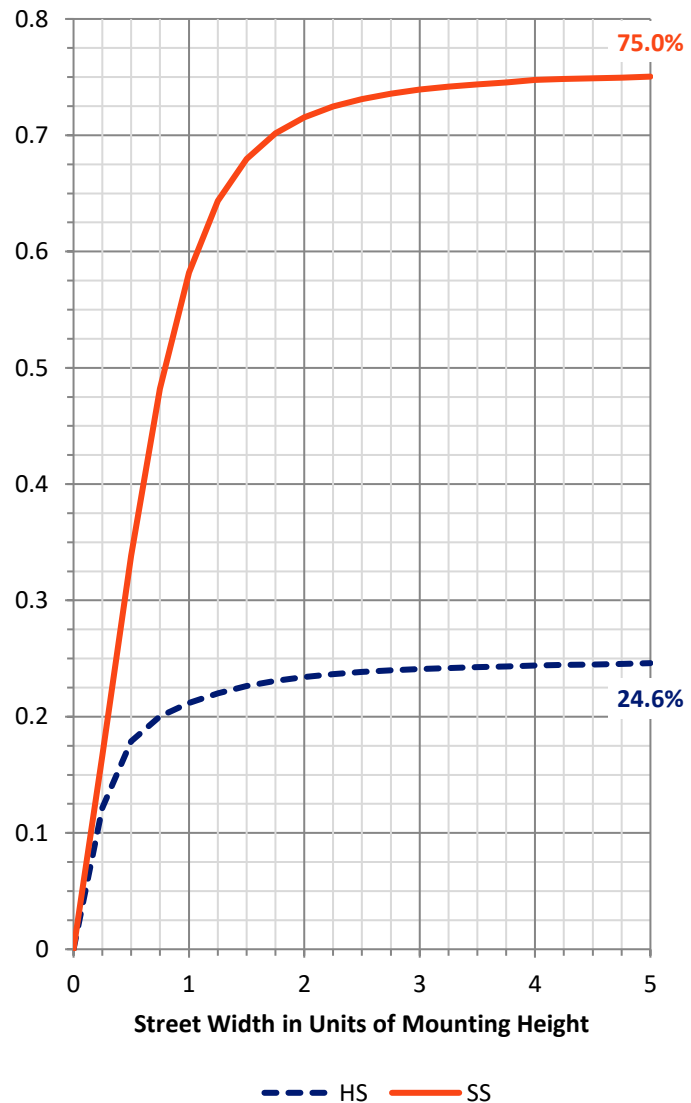
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3832.6	0.0	3832.6
	% Fixture	25.0	0.0	25.0
<b>Street Side</b>	Lumens	11499.5	0.0	11499.5
	% Fixture	75.0	0.0	75.0
<b>Total</b>	Lumens	15332.1	0.0	15332.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.2	1.7
10°-20°	798.5	5.2
20°-30°	1342.8	8.8
30°-40°	1989.1	13.0
40°-50°	2687.0	17.5
50°-60°	3109.5	20.3
60°-70°	3041.2	19.8
70°-80°	1853.4	12.1
80°-90°	246.4	1.6
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°	15332.1	100.0
0°-180°	15332.1	100.0



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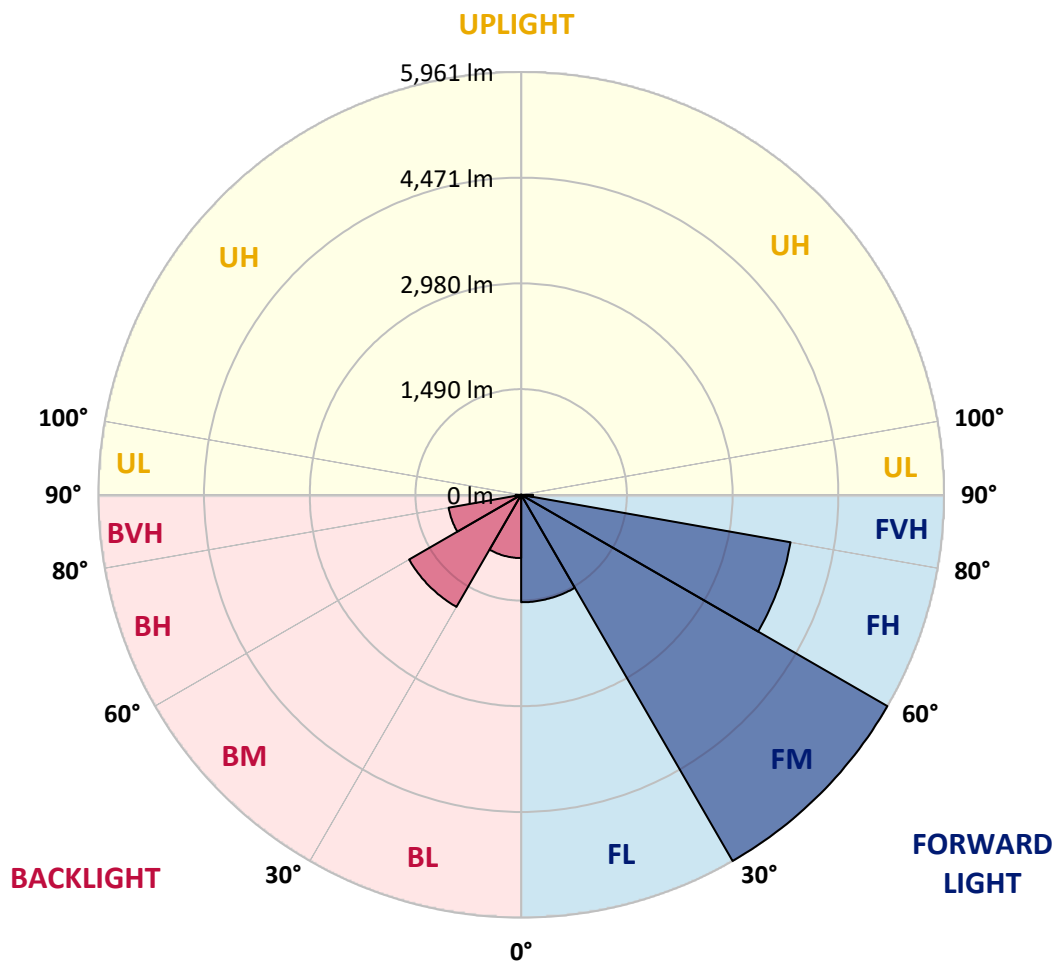
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1514.2	9.9			
FM	(30°-60°)	5961.0	38.9			
FH	(60°-80°)	3856.5	25.2			G2/5000
FVH	(80°-90°)	167.8	1.1			G2/225
BL	(0°-30°)	891.4	5.8	B2/1000		
BM	(30°-60°)	1824.6	11.9	B2/2500		
BH	(60°-80°)	1038.1	6.8	B3/2500		G3/2500
BVH	(80°-90°)	78.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	2751	2751	2751	2751	2751	2751	2751	2751	2751	2751	2751
2.5°	2942	2932	2895	2881	2871	2885	2860	2856	2848	2860	2828
5°	3072	3070	3035	3023	3001	3003	2995	2974	2958	2954	2940
7.5°	3210	3181	3153	3141	3096	3100	3068	3076	3049	3047	3015
10°	3352	3338	3291	3273	3216	3214	3190	3177	3169	3133	3116
12.5°	3490	3470	3417	3401	3340	3340	3328	3307	3281	3263	3226
15°	3596	3588	3531	3513	3470	3446	3442	3421	3407	3393	3370
17.5°	3730	3722	3667	3645	3618	3608	3580	3563	3543	3507	3513
20°	3803	3797	3752	3734	3726	3726	3702	3677	3677	3653	3657
22.5°	3803	3815	3787	3821	3844	3856	3856	3836	3817	3807	3799
25°	3848	3844	3846	3895	3970	3982	3994	4002	3980	3974	3966
27.5°	3795	3799	3834	3960	4116	4165	4169	4189	4155	4201	4165
30°	3811	3817	3876	4037	4260	4335	4376	4392	4360	4417	4376
32.5°	3758	3765	3842	4055	4354	4486	4551	4608	4559	4665	4612
35°	3576	3590	3704	3988	4398	4567	4665	4726	4715	4884	4849
37.5°	3352	3366	3547	3893	4415	4632	4766	4888	4898	5087	5134
40°	3190	3212	3393	3771	4382	4677	4868	5034	5075	5376	5439
42.5°	2970	2999	3139	3559	4277	4612	4843	5063	5179	5554	5656
45°	2787	2810	2956	3340	4147	4510	4803	5103	5254	5721	5865
47.5°	2556	2582	2735	3084	3891	4307	4652	5022	5187	5770	5997
50°	1967	1997	2460	2887	3596	4051	4465	4856	5069	5770	6028
52.5°	1772	1796	1930	2678	3273	3702	4136	4604	4845	5640	5955
55°	1662	1668	1753	2245	2988	3307	3698	4189	4480	5363	5751
57.5°	1589	1601	1658	1912	2741	2974	3263	3624	3939	4839	5302
60°	1491	1512	1577	1751	2456	2653	2893	3165	3344	4124	4573
62.5°	1398	1408	1451	1617	2223	2397	2572	2767	2923	3437	3888
65°	1288	1302	1359	1512	2064	2243	2369	2507	2623	3039	3326
67.5°	1150	1188	1237	1373	1828	2036	2101	2219	2314	2605	2865
70°	1040	1042	1113	1219	1534	1776	1841	1906	1989	2206	2424
72.5°	849	880	941	1022	1262	1487	1532	1597	1664	1776	1936
75°	715	740	782	861	1026	1142	1272	1288	1327	1329	1453
77.5°	370	390	439	498	650	699	841	829	855	805	910
80°	106	160	305	345	406	414	435	410	404	402	449
82.5°	65	85	191	219	244	191	150	126	126	118	124
85°	45	59	65	87	81	65	65	65	65	45	61
87.5°	24	20	22	24	24	4	8	20	14	0	6
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°	67.5°	70°	72.5°	75°	77.5°
0°	2751	2751	2751	2751	2751	2751	2751	2751	2751	2751	2751
2.5°	2824	2818	2808	2812	2783	2798	2795	2781	2808	2777	2775
5°	2921	2911	2873	2873	2836	2852	2824	2838	2836	2820	2783
7.5°	3019	3011	2962	2972	2921	2926	2881	2887	2877	2873	2828
10°	3084	3082	3056	3056	3007	3009	2958	2956	2917	2915	2897
12.5°	3202	3173	3149	3137	3104	3098	3047	3019	2982	2976	2970
15°	3340	3334	3307	3289	3255	3242	3186	3159	3092	3086	3072
17.5°	3474	3468	3437	3440	3397	3385	3336	3285	3222	3212	3194
20°	3633	3616	3608	3596	3559	3543	3474	3421	3364	3344	3271
22.5°	3791	3781	3787	3760	3754	3714	3681	3604	3551	3496	3425
25°	3990	3970	3970	3933	3933	3884	3856	3795	3758	3695	3645
27.5°	4197	4165	4197	4163	4173	4118	4124	4051	4063	3949	3917
30°	4449	4413	4457	4431	4502	4451	4535	4478	4514	4380	4368
32.5°	4726	4703	4823	4780	4949	4923	5095	5034	5209	5049	5083
35°	5006	4986	5237	5233	5514	5550	5867	5784	5965	5760	5737
37.5°	5351	5353	5652	5725	6156	6207	6538	6434	6619	6393	6420
40°	5729	5776	6144	6265	6802	6851	7212	7078	7151	6914	6907
42.5°	6038	6140	6595	6769	7371	7411	7675	7566	7598	7458	7354
45°	6383	6521	7082	7263	7887	7931	8216	8076	8114	7976	7862
47.5°	6631	6794	7505	7665	8378	8386	8687	8514	8630	8439	8354
50°	6814	7054	7903	8072	8837	8837	9138	8955	9106	8854	8850
52.5°	6895	7222	8204	8405	9297	9268	9557	9339	9471	9207	9158
55°	6810	7269	8435	8760	9654	9583	9821	9658	9723	9542	9398
57.5°	6497	7133	8569	8992	9922	9892	10020	9937	9910	9800	9630
60°	5867	6725	8496	9122	10008	10071	10235	10172	10158	10040	9882
62.5°	5022	6068	7984	8882	9898	10046	10280	10274	10325	10203	10085
65°	4287	5508	7623	8734	9630	9861	10170	10211	10272	10251	10150
67.5°	3580	4498	6920	8362	9484	9656	9813	9910	9967	9914	9813
70°	2921	3535	5623	7184	8529	8925	9154	9268	9378	9364	9150
72.5°	2182	2531	3649	5010	6838	7606	7992	8431	8777	8683	8521
75°	1552	1745	2235	3003	4319	5743	6932	7527	7753	7840	7497
77.5°	914	1073	1308	1725	2540	3088	3799	5075	5705	6247	6014
80°	500	549	601	764	1077	1264	1475	1849	2267	2795	3064
82.5°	138	191	207	297	475	626	772	1020	1178	1363	1467
85°	57	73	49	95	191	311	349	506	557	662	658
87.5°	4	16	0	6	0	18	0	12	0	6	0
90°	0	0	0	0	0	0	0	0	0	0	0





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**CANDELA DISTRIBUTION (continued):**

	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°	110°
0°	2751	2751	2751	2751	2751	2751	2751	2751	2751	2751	2751
2.5°	2743	2759	2747	2751	2757	2726	2710	2702	2702	2706	2696
5°	2763	2763	2755	2730	2745	2714	2688	2661	2655	2653	2655
7.5°	2820	2795	2781	2755	2749	2694	2661	2629	2629	2613	2617
10°	2848	2828	2812	2755	2743	2696	2643	2625	2600	2572	2562
12.5°	2893	2865	2836	2783	2755	2688	2637	2588	2550	2503	2511
15°	2997	2946	2938	2869	2828	2733	2645	2592	2568	2511	2495
17.5°	3121	3064	3023	2954	2905	2777	2665	2588	2562	2503	2474
20°	3226	3181	3110	3031	2968	2816	2680	2613	2558	2483	2434
22.5°	3360	3307	3216	3169	3068	2901	2706	2613	2580	2479	2405
25°	3533	3454	3366	3275	3175	2960	2745	2665	2560	2442	2405
27.5°	3785	3689	3555	3450	3318	3047	2820	2678	2578	2483	2361
30°	4201	4136	3937	3815	3598	3198	2887	2735	2602	2450	2336
32.5°	4882	4803	4585	4417	4161	3677	3068	2824	2611	2430	2290
35°	5565	5396	5162	5042	4723	4163	3484	3104	2777	2422	2216
37.5°	6156	5973	5776	5498	5266	4541	3876	3442	3027	2540	2210
40°	6615	6586	6257	6070	5812	5071	4167	3775	3230	2645	2271
42.5°	7074	7005	6698	6521	6091	5392	4535	3746	3312	2629	2233
45°	7625	7448	7257	6867	6617	5721	4593	3982	3354	2633	2208
47.5°	8076	7830	7614	7265	7035	6133	4795	3941	3354	2584	2042
50°	8492	8338	8000	7736	7356	6361	4921	3966	3328	2369	1835
52.5°	8844	8724	8336	8061	7637	6542	4919	3909	3143	2056	1524
55°	9177	8963	8677	8273	7954	6725	4904	3657	2852	1723	1268
57.5°	9459	9223	8937	8516	8212	6847	4858	3462	2509	1467	1058
60°	9693	9496	9146	8748	8346	6895	4646	3043	2192	1186	904
62.5°	9884	9662	9280	8837	8415	6851	4374	2682	1871	967	742
65°	9957	9723	9358	8866	8344	6645	3970	2271	1536	792	640
67.5°	9666	9337	9041	8508	7970	6164	3580	1865	1178	585	536
70°	9004	8667	8388	7822	7249	5485	3135	1361	847	471	461
72.5°	8382	7862	7549	6773	6318	4707	2472	967	567	358	335
75°	7434	6895	6666	5936	5467	3758	1800	679	419	293	288
77.5°	6105	5392	5435	4721	4262	2704	1203	406	274	171	171
80°	3413	3027	3259	2824	2767	1698	689	232	163	85	69
82.5°	1595	1455	1585	1418	1373	819	282	93	81	45	43
85°	746	609	646	540	551	248	71	8	37	28	28
87.5°	12	0	8	0	10	12	10	0	8	8	6
90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°
0°	2751	2751	2751	2751	2751	2751	2751	2751	2751	2751	2751
2.5°	2694	2692	2674	2672	2661	2661	2670	2647	2641	2651	2661
5°	2661	2649	2621	2623	2609	2609	2600	2578	2556	2566	2546
7.5°	2609	2584	2548	2544	2519	2519	2499	2485	2466	2446	2442
10°	2535	2523	2495	2479	2462	2446	2430	2407	2361	2351	2320
12.5°	2483	2477	2434	2403	2369	2342	2312	2290	2253	2210	2176
15°	2470	2446	2393	2377	2328	2304	2271	2231	2164	2123	2070
17.5°	2405	2395	2344	2330	2263	2233	2182	2147	2086	2023	1977
20°	2373	2332	2267	2247	2178	2145	2109	2052	1989	1908	1837
22.5°	2344	2284	2198	2178	2105	2074	1999	1963	1891	1778	1713
25°	2292	2219	2117	2080	1991	1954	1861	1818	1727	1625	1534
27.5°	2247	2184	2048	1985	1898	1835	1755	1690	1570	1438	1351
30°	2202	2086	1963	1883	1747	1686	1568	1516	1392	1251	1193
32.5°	2109	2001	1828	1741	1593	1526	1418	1316	1182	1097	1038
35°	2023	1898	1702	1591	1418	1351	1207	1138	1002	939	878
37.5°	1934	1782	1552	1440	1219	1166	1048	995	898	798	770
40°	1861	1664	1430	1276	1093	1004	939	904	821	687	681
42.5°	1747	1499	1211	1077	902	851	788	764	679	577	622
45°	1629	1335	1036	910	805	750	683	660	597	597	656
47.5°	1402	1111	825	750	670	648	618	575	551	581	622
50°	1126	884	703	666	630	620	618	609	583	599	618
52.5°	902	744	699	670	662	646	654	628	612	609	628
55°	772	689	679	683	670	664	658	640	636	628	626
57.5°	687	693	650	668	662	668	662	656	620	683	638
60°	674	652	622	632	634	640	638	630	609	628	624
62.5°	646	612	597	593	605	599	618	603	616	599	601
65°	597	583	577	577	593	587	597	593	595	585	561
67.5°	520	516	520	522	540	546	569	553	549	549	512
70°	447	453	451	457	479	514	524	524	532	536	492
72.5°	337	337	341	347	370	396	451	447	469	475	449
75°	268	260	272	280	293	293	345	360	410	394	372
77.5°	150	160	154	154	158	175	215	203	256	339	335
80°	69	75	77	75	69	110	134	130	173	268	317
82.5°	49	39	33	41	33	51	73	61	63	173	339
85°	33	30	28	35	20	43	45	51	43	75	291
87.5°	0	14	0	6	0	6	4	12	0	20	136
90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	165°	175°	180°
0°	2751	2751	2751
2.5°	2667	2667	2674
5°	2546	2544	2544
7.5°	2444	2442	2438
10°	2304	2294	2304
12.5°	2162	2184	2174
15°	2066	2078	2064
17.5°	1938	1938	1946
20°	1788	1763	1767
22.5°	1676	1644	1666
25°	1528	1501	1487
27.5°	1335	1314	1292
30°	1144	1130	1117
32.5°	983	957	959
35°	831	807	788
37.5°	713	705	727
40°	658	666	674
42.5°	626	640	618
45°	656	672	662
47.5°	652	685	679
50°	664	687	674
52.5°	648	654	642
55°	622	605	597
57.5°	612	575	544
60°	563	534	504
62.5°	559	512	496
65°	510	484	475
67.5°	443	427	423
70°	431	404	394
72.5°	351	303	293
75°	311	276	256
77.5°	319	358	337
80°	390	256	248
82.5°	291	160	163
85°	169	122	126
87.5°	89	57	65
90°	0	0	0

(END OF REPORT)