

Scaled data based on original data using  
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge  
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: P13098

Luminaire Tested: **TRU25S2F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: P13098  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: TRU25S2F  
Description: TRIBUTE AREA/SITE HID FIXTURE WITH TYPE 2F SEMI SPECULAR  
HYDROFORMED REFLECTOR  
Light Source: -  
LU250/ED18 250 WATTS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 28000 (1 lamp)  
Luminaire Lumens: 21135.9 lumens  
Efficiency: 75.5%  
Efficacy: 84.5 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

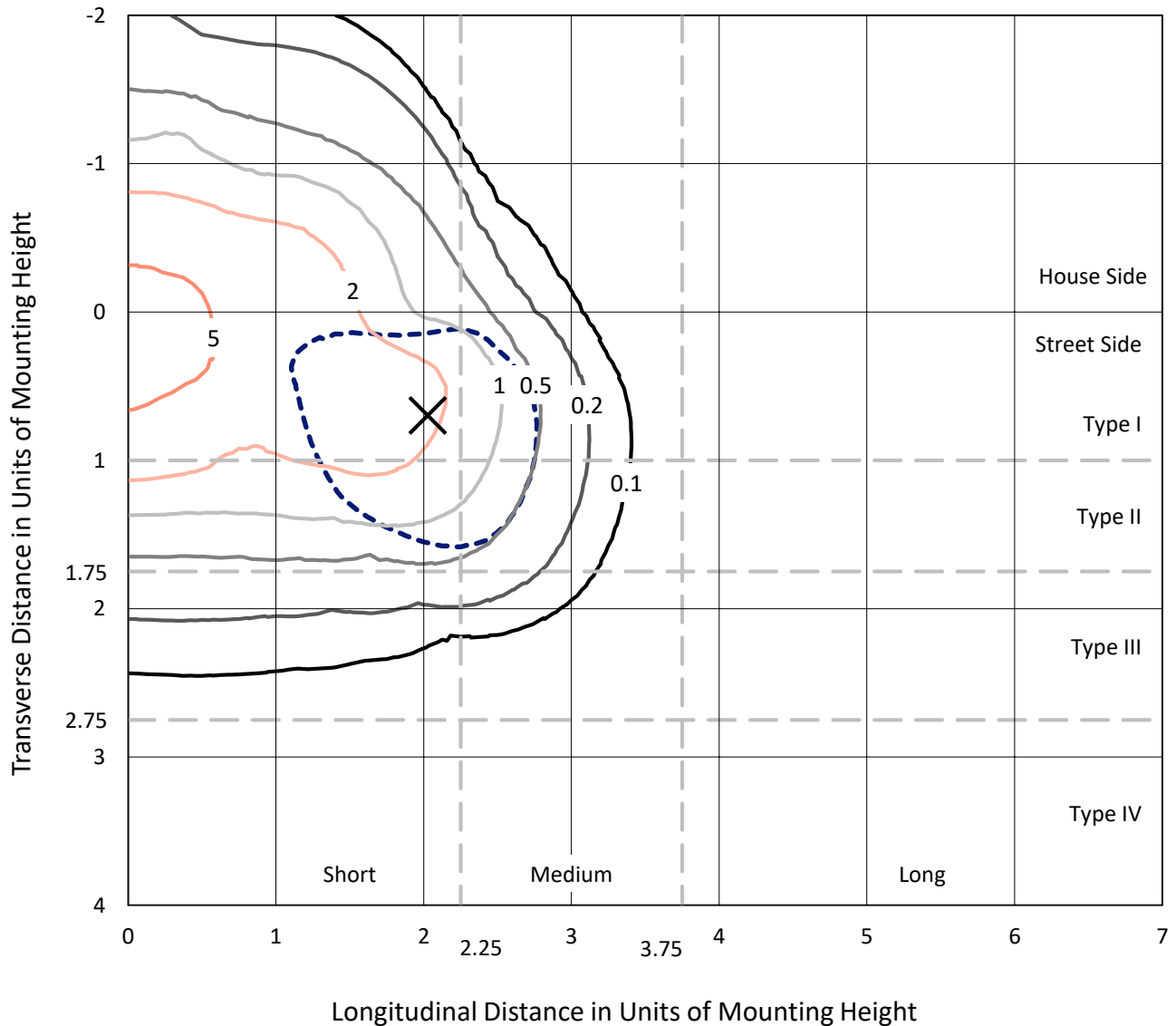
Input Watts (W): 250  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

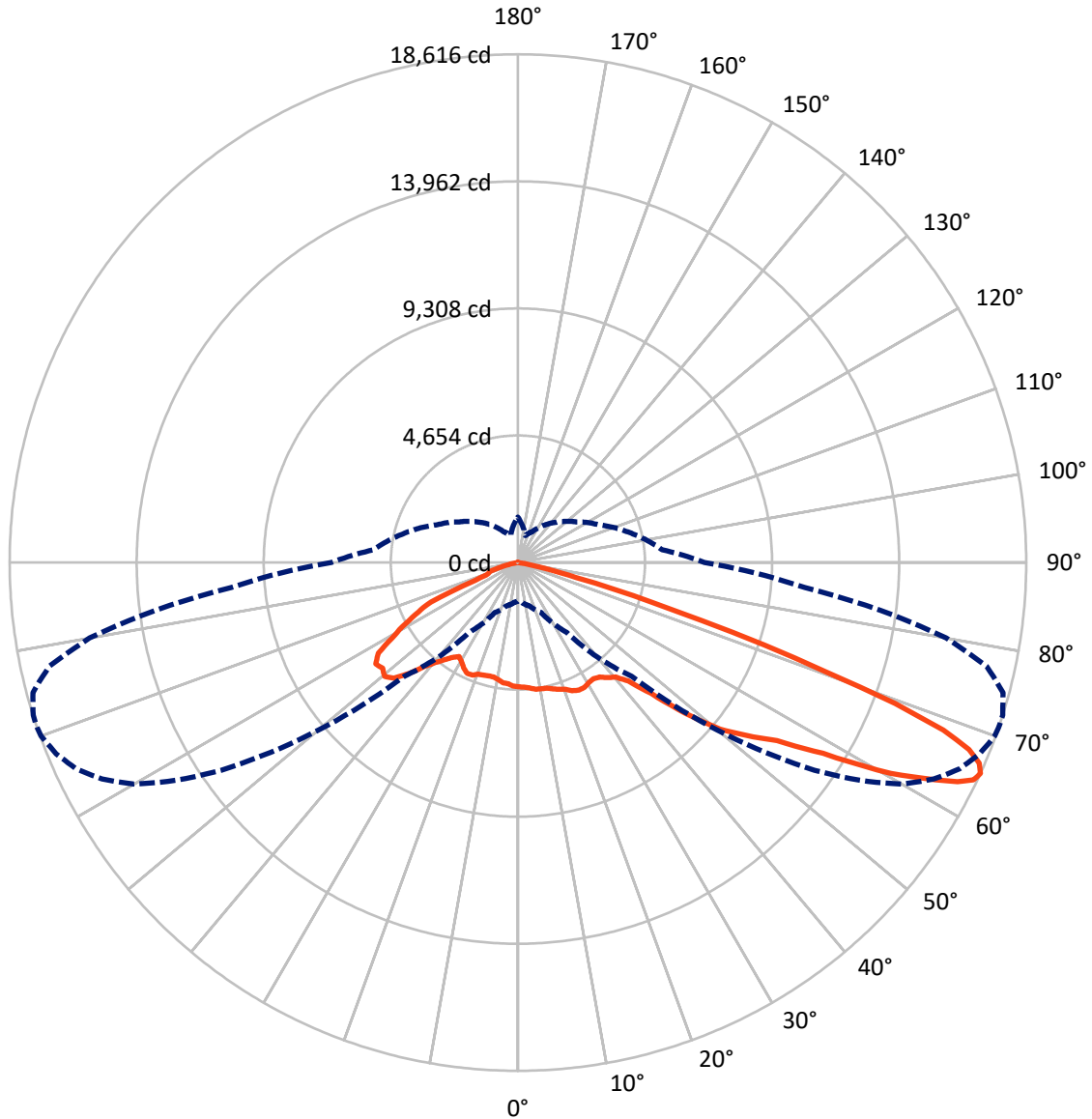
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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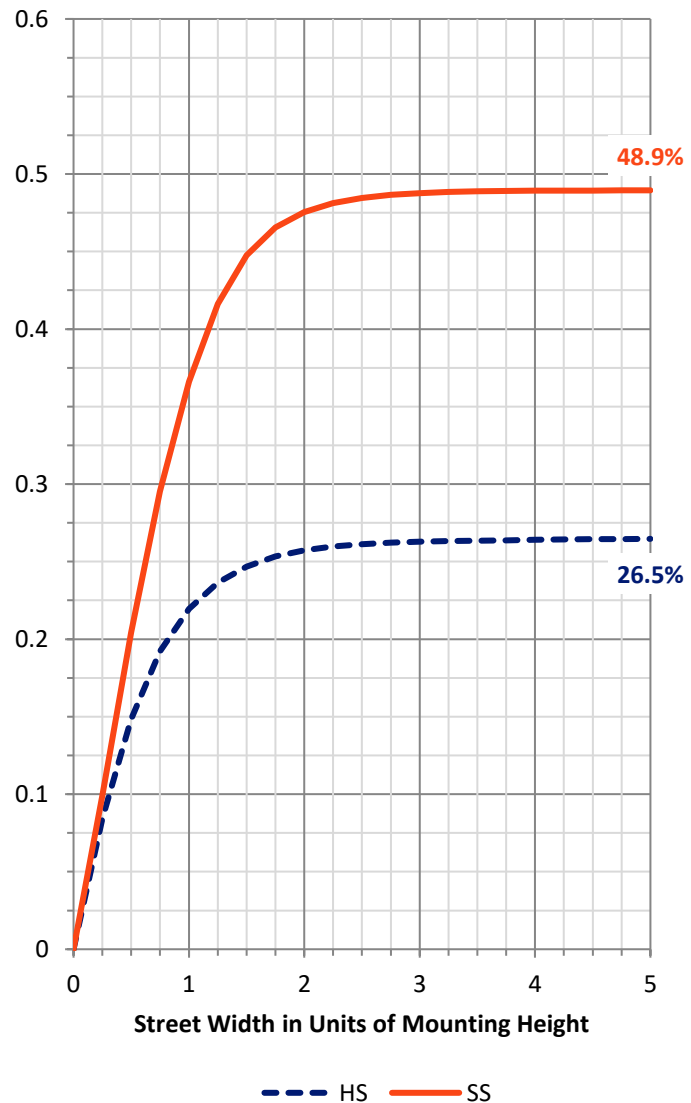
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7445.0	0.0	7445.0
	% Lamp	26.6	0.0	26.6
<b>Street Side</b>	Lumens	13690.8	0.0	13690.8
	% Lamp	48.9	0.0	48.9
<b>Total</b>	Lumens	21135.9	0.0	21135.9
	% Lamp	75.5	0.0	75.5

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	433.8	2.1	1.5
10°-20°	1284.0	6.1	4.6
20°-30°	2075.7	9.8	7.4
30°-40°	2758.0	13.0	9.8
40°-50°	3712.2	17.6	13.3
50°-60°	4756.5	22.5	17.0
60°-70°	4947.7	23.4	17.7
70°-80°	1141.7	5.4	4.1
80°-90°	26.2	0.1	0.1
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	21135.9	100.0	75.5
0°-180°	21135.9	100.0	75.5

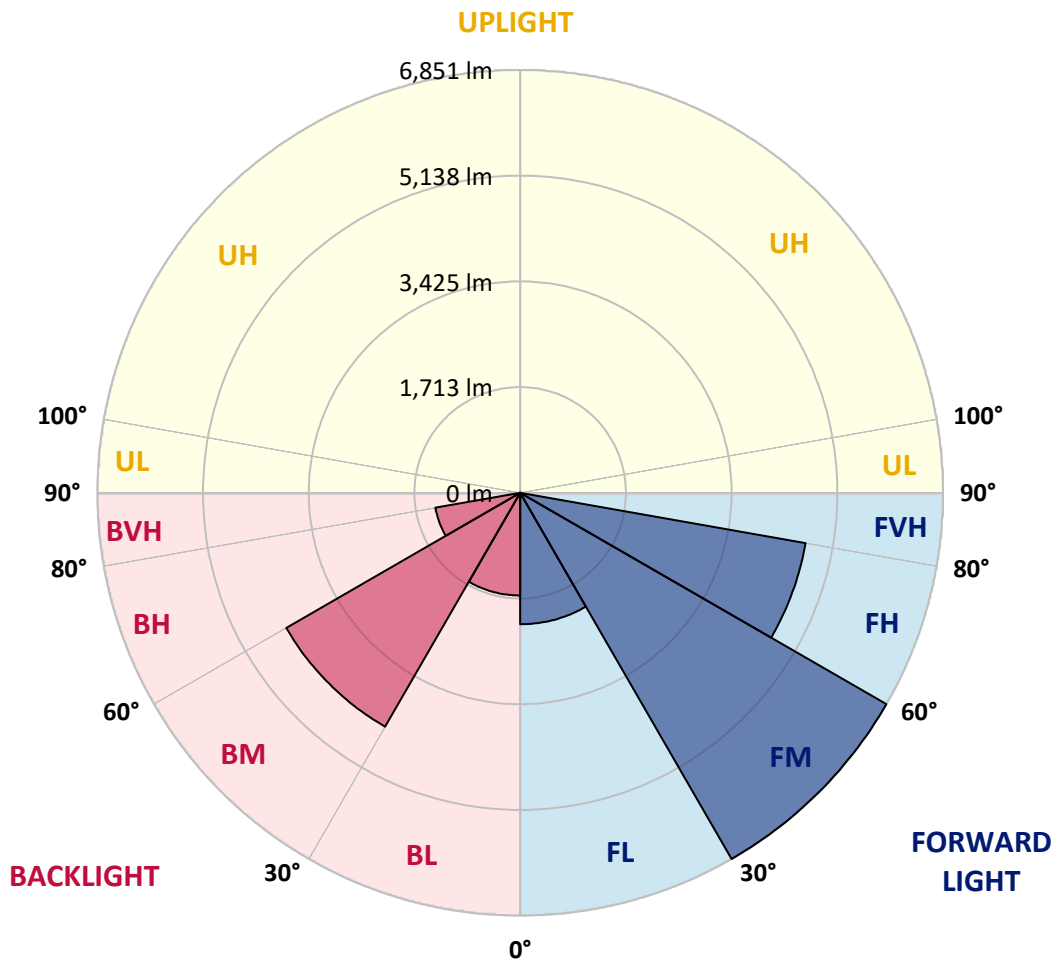


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2129.9	7.6			
FM (30°-60°)	6850.8	24.5			
FH (60°-80°)	4696.0	16.8			G2/5000
FVH (80°-90°)	14.1	0.1			G1/100
BL (0°-30°)	1663.6	5.9	B3/2500		
BM (30°-60°)	4375.9	15.6	B3/5000		
BH (60°-80°)	1393.4	5.0	B3/2500		G3/2500
BVH (80°-90°)	12.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	6864.1	24.5			

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57.5°	60°	62.5°	65°
0°	4549	4549	4549	4549	4549	4549	4549	4549	4549	4549	4549
2.5°	4634	4626	4633	4624	4612	4592	4585	4582	4580	4571	4572
5°	4805	4801	4775	4756	4720	4680	4647	4658	4636	4619	4617
7.5°	4914	4905	4879	4844	4814	4750	4749	4738	4739	4721	4709
10°	5107	5093	5046	4990	4974	4923	4852	4824	4803	4783	4760
12.5°	5304	5271	5232	5187	5119	4994	4905	4866	4842	4810	4789
15°	5352	5327	5310	5319	5212	5082	4976	4948	4940	4892	4871
17.5°	5262	5258	5290	5312	5232	5177	5065	5045	5006	4970	4945
20°	5090	5093	5184	5225	5201	5181	5165	5116	5099	5049	5024
22.5°	5015	5026	5179	5219	5224	5238	5273	5266	5248	5212	5177
25°	5043	5039	5148	5187	5212	5269	5341	5333	5334	5308	5277
27.5°	5177	5159	5141	5133	5155	5252	5349	5368	5384	5363	5338
30°	5408	5338	5127	5060	5104	5266	5457	5408	5385	5307	5251
32.5°	5446	5402	5125	4999	5052	5249	5356	5332	5317	5308	5223
35°	5330	5328	5124	4984	5054	5259	5330	5320	5325	5250	5215
37.5°	5078	5114	5093	5025	5067	5151	5305	5334	5345	5332	5348
40°	4911	4919	4979	5077	5099	5051	5313	5311	5374	5392	5430
42.5°	4935	4899	4874	5118	5055	4950	5263	5359	5453	5574	5665
45°	4928	4856	4817	5147	4881	4859	5402	5582	5830	6020	6246
47.5°	4594	4561	4591	5005	4716	4832	5868	6178	6567	6933	7296
50°	3998	4035	4122	4523	4371	5045	6747	7179	7680	8145	8586
52.5°	3278	3315	3491	3900	4263	5430	7714	8244	8789	9268	9671
55°	2852	2865	3091	3713	4454	6117	8775	9308	9877	10359	10816
57.5°	2450	2475	2713	3477	4592	6764	9694	10330	10909	11501	12094
60°	2005	2048	2290	3023	4475	6900	10841	11815	12838	13787	14619
61°	1859	1916	2136	2812	4291	6911	11652	12772	13945	14921	15674
62°	1767	1817	2011	2608	4073	6876	12381	13670	14889	15758	16428
63°	1669	1682	1906	2415	3786	6697	12928	14321	15546	16435	17109
64°	1513	1557	1746	2222	3445	6348	13191	14710	16015	16947	17649
65°	1414	1461	1650	2025	3123	5884	13255	14842	16228	17170	17859
66°	1322	1354	1535	1865	2803	5350	13002	14689	16022	16963	17633
67°	1207	1243	1415	1734	2501	4772	12443	14122	15519	16402	17032
68°	1097	1132	1298	1570	2230	4247	11702	13303	14620	15486	16128
69°	984	1019	1196	1457	2037	3767	10660	12239	13469	14138	14629
70°	823	862	1027	1347	1887	3305	9434	10788	11728	12120	12291
72.5°	450	470	634	871	1334	1816	5191	5839	6190	6265	6237
75°	160	135	203	394	480	519	2039	2396	2609	2623	2582
77.5°	47	41	53	84	101	197	690	822	861	888	869
80°	19	18	23	38	56	71	203	236	275	280	283
82.5°	0	24	0	3	12	17	40	57	67	59	74
85°	0	0	0	23	1	0	2	13	7	9	47
87.5°	2	0	0	4	5	1	0	1	0	2	1
90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	67.5°	70°	71°	72.5°	75°	77.5°	80°	82.5°	85°	90°	95°
0°	4549	4549	4549	4549	4549	4549	4549	4549	4549	4549	4549
2.5°	4560	4564	4570	4590	4557	4571	4594	4548	4529	4533	4541
5°	4592	4592	4614	4594	4566	4567	4555	4522	4517	4471	4511
7.5°	4694	4685	4685	4688	4647	4639	4625	4591	4598	4575	4529
10°	4728	4691	4699	4691	4672	4624	4595	4568	4552	4516	4449
12.5°	4754	4741	4720	4714	4665	4652	4612	4578	4559	4503	4429
15°	4838	4810	4800	4800	4742	4728	4706	4662	4633	4562	4491
17.5°	4917	4898	4882	4879	4825	4795	4773	4729	4706	4639	4543
20°	4991	4972	4960	4959	4900	4879	4840	4796	4758	4682	4605
22.5°	5131	5127	5100	5087	5059	5029	4975	4926	4879	4809	4729
25°	5221	5183	5178	5162	5116	5062	5012	4950	4917	4838	4757
27.5°	5282	5202	5181	5141	5042	4965	4909	4842	4805	4715	4612
30°	5225	5125	5109	5070	4952	4885	4816	4750	4686	4573	4461
32.5°	5165	5109	5074	5045	4926	4858	4793	4723	4657	4535	4401
35°	5185	5173	5149	5125	5133	5045	5006	4963	4928	4841	4730
37.5°	5339	5345	5345	5336	5284	5244	5232	5218	5222	5145	5016
40°	5493	5504	5509	5531	5504	5485	5476	5485	5488	5434	5308
42.5°	5775	5894	5933	6006	6038	6034	5973	5945	5948	5878	5822
45°	6491	6781	6838	6959	7044	7039	6896	6828	6744	6697	6614
47.5°	7687	8085	8232	8434	8486	8352	8073	7829	7702	7510	7323
50°	9016	9431	9598	9704	9688	9388	8986	8616	8385	8098	7805
52.5°	10068	10472	10528	10606	10517	10159	9634	9114	8690	8216	7802
55°	11183	11485	11512	11532	11424	11046	10364	9552	8908	8283	7851
57.5°	12678	13073	13184	13331	13274	12785	11705	10309	9144	8109	7660
60°	15282	15632	15691	15760	15454	14591	12919	10719	8833	7015	6397
61°	16163	16420	16438	16481	16155	15206	13438	10985	8834	6697	6051
62°	16907	17191	17242	17234	16947	16035	14189	11589	9108	6477	5655
63°	17600	17982	17990	18023	17723	16811	14894	12212	9416	6315	5335
64°	18164	18479	18487	18456	18153	17246	15430	12795	9906	6416	5192
65°	18300	18581	18616	18613	18390	17584	15929	13394	10544	6831	5310
66°	18067	18408	18418	18483	18337	17647	16157	13778	10980	7132	5324
67°	17523	17852	17885	17947	17827	17114	15681	13381	10592	6735	4615
68°	16498	16827	16745	16730	16465	15582	14025	11723	9073	5372	3315
69°	14687	14787	14753	14501	13959	12971	11504	9357	6964	4051	2494
70°	12234	12050	11919	11499	10990	10166	8909	7198	5474	3184	2108
72.5°	6160	5884	5850	5633	5223	4757	4157	3387	2659	1798	1475
75°	2444	2288	2207	2179	1992	1739	1546	1322	1103	888	859
77.5°	828	789	772	734	694	623	538	505	443	405	448
80°	253	245	276	250	223	216	185	170	181	162	186
82.5°	67	60	70	69	79	56	53	43	48	39	53
85°	25	18	10	13	13	10	12	45	7	3	13
87.5°	5	9	3	5	2	18	12	1	8	0	3
90°	0	0	0	0	0	0	0	0	0	0	0





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**CANDELA DISTRIBUTION (continued):**

	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4549	4549	4549	4549	4549	4549	4549	4549	4549
2.5°	4526	4535	4512	4512	4502	4492	4505	4495	4499
5°	4465	4441	4406	4386	4368	4347	4353	4356	4359
7.5°	4451	4408	4336	4282	4233	4229	4218	4198	4203
10°	4375	4309	4235	4205	4144	4093	4100	4073	4080
12.5°	4332	4213	4094	4049	4014	3961	3952	3929	3930
15°	4339	4204	4033	3933	3868	3838	3790	3793	3787
17.5°	4381	4211	4019	3861	3737	3664	3649	3628	3627
20°	4418	4214	3960	3773	3616	3518	3475	3428	3417
22.5°	4551	4286	3986	3734	3577	3457	3391	3323	3300
25°	4576	4306	3983	3717	3511	3371	3307	3238	3248
27.5°	4429	4240	3975	3674	3433	3293	3204	3147	3137
30°	4252	4075	3858	3660	3393	3217	3112	3052	3036
32.5°	4160	3914	3733	3621	3345	3137	2995	2916	2909
35°	4372	3969	3693	3525	3344	3054	2893	2806	2782
37.5°	4658	4139	3731	3465	3257	2967	2775	2682	2680
40°	4988	4367	3834	3393	3122	2845	2697	2572	2579
42.5°	5431	4657	3913	3294	2979	2760	2686	2525	2537
45°	6063	5138	3990	3202	2841	2694	2756	2501	2539
47.5°	6675	5515	4032	3045	2616	2567	2833	2397	2381
50°	6977	5584	3956	2873	2451	2386	2808	2207	2179
52.5°	6784	5546	3860	2720	2229	2117	2537	1927	1902
55°	6864	5691	3972	2707	2181	1934	2143	1842	1862
57.5°	6624	5290	3702	2575	2014	1709	1725	1768	1822
60°	5695	4512	3262	2354	1874	1534	1426	1728	1807
61°	5458	4282	3072	2274	1839	1478	1369	1698	1775
62°	5110	4000	2915	2248	1808	1441	1310	1668	1784
63°	4809	3713	2767	2224	1761	1395	1274	1643	1749
64°	4485	3435	2678	2155	1715	1355	1112	1537	1675
65°	4234	3266	2601	2100	1668	1253	1022	1452	1666
66°	3812	3022	2415	1993	1538	1119	917	1342	1628
67°	2902	2340	2009	1678	1329	980	829	1225	1532
68°	1862	1448	1409	1314	1100	816	745	1033	1379
69°	1447	977	828	876	829	676	714	873	1209
70°	1360	859	585	503	541	521	658	704	998
72.5°	1282	783	466	300	215	198	676	423	525
75°	924	572	300	212	96	130	543	262	247
77.5°	524	335	215	140	100	77	404	171	132
80°	206	142	91	65	48	32	163	60	68
82.5°	51	36	21	4	7	3	14	3	0
85°	7	11	24	42	0	9	0	10	0
87.5°	0	3	1	3	1	0	1	2	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)