

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: 768875

Luminaire Tested: **ACN25SXX5511X**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 768875  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ACN25SXX5511X  
Description: GENERATIONS POST TOP  
W/CLEAR TOP & CAGE  
Light Source: 250 WATT HPS CLEAR E-18  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 27500 (1 lamp)  
Luminaire Lumens: 19588.1 lumens  
Efficiency: 71.2%  
Efficacy: 78.4 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B4 - U5 - G4

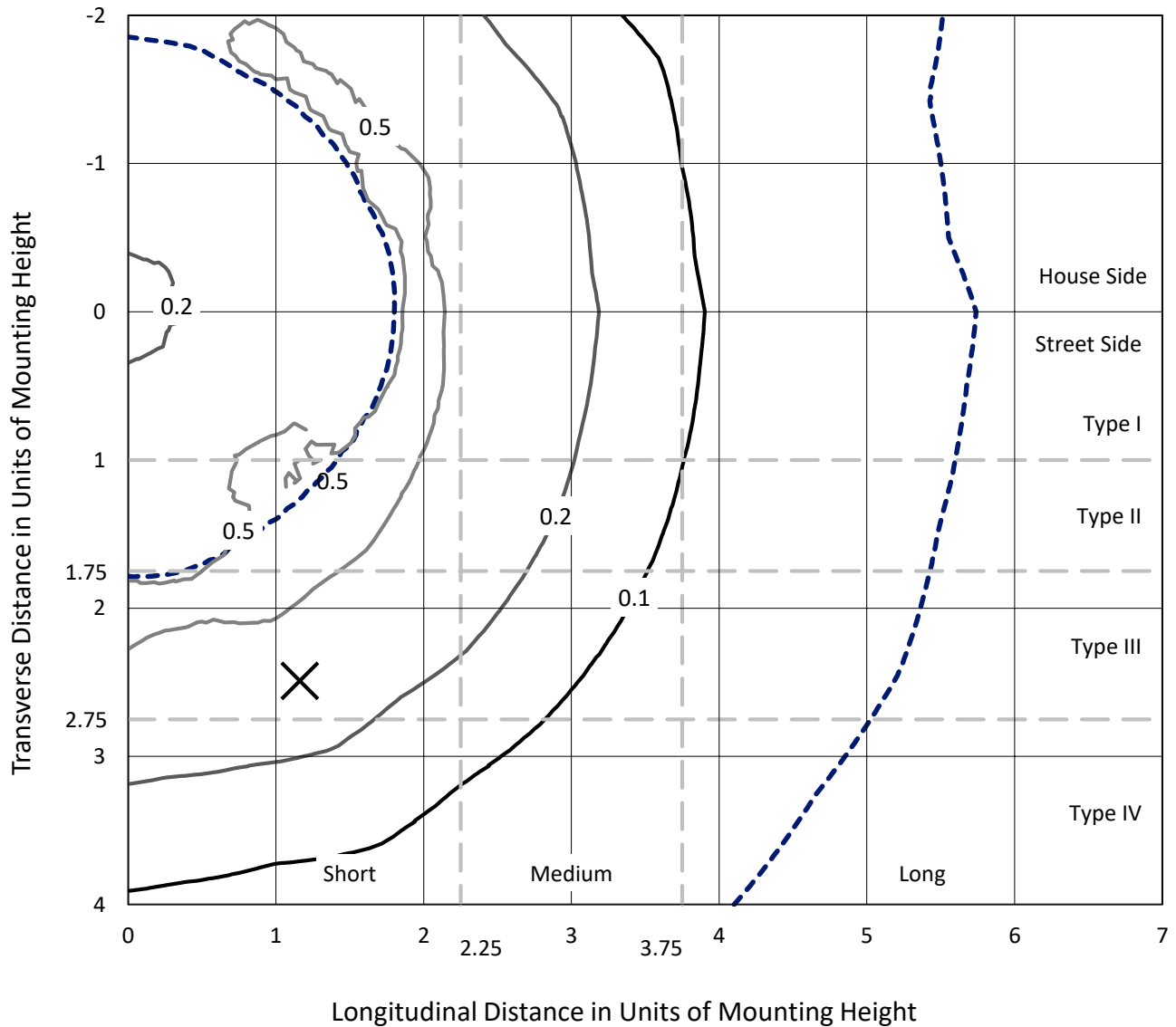
Input Watts (W): 250  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

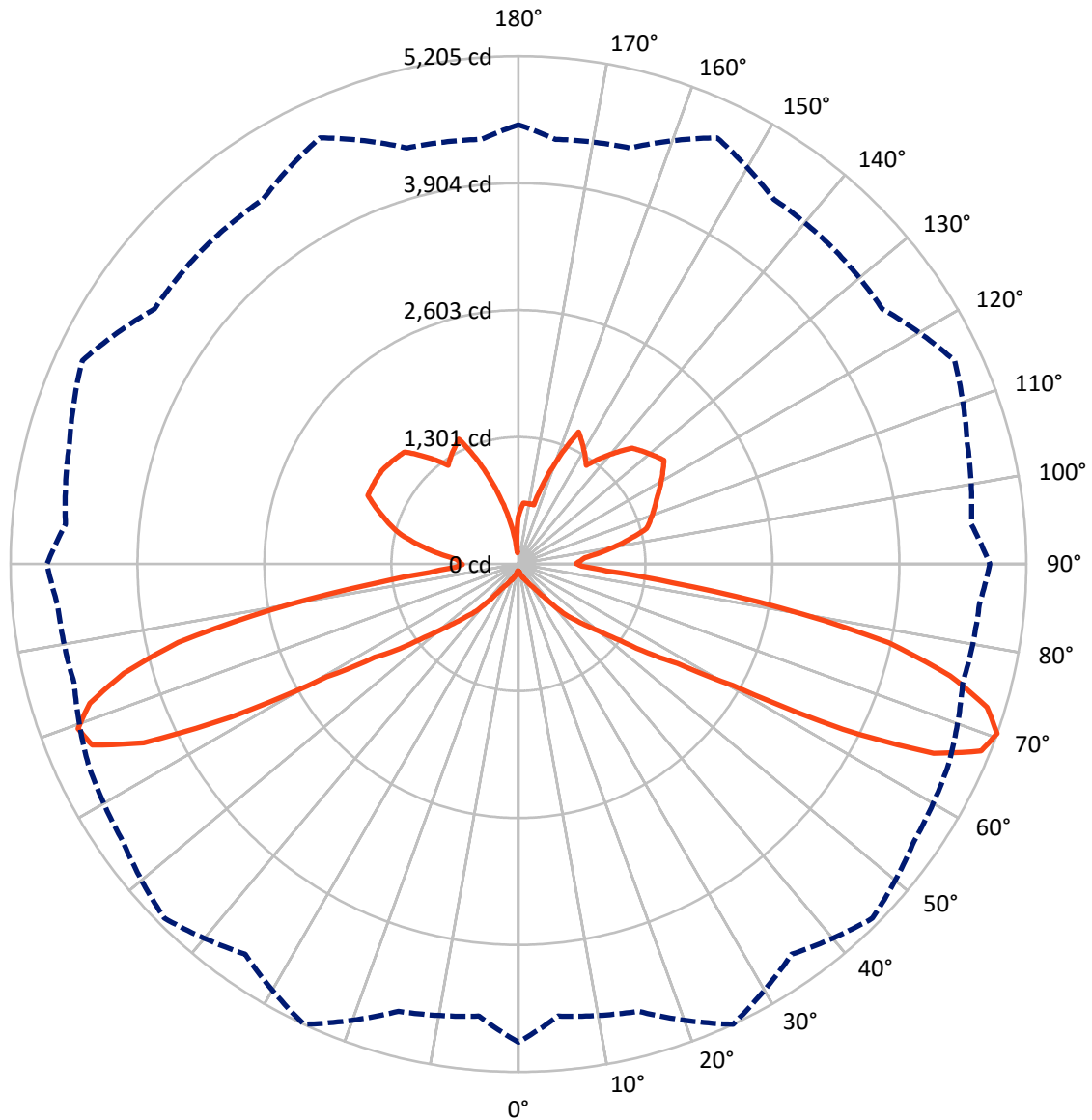
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 25-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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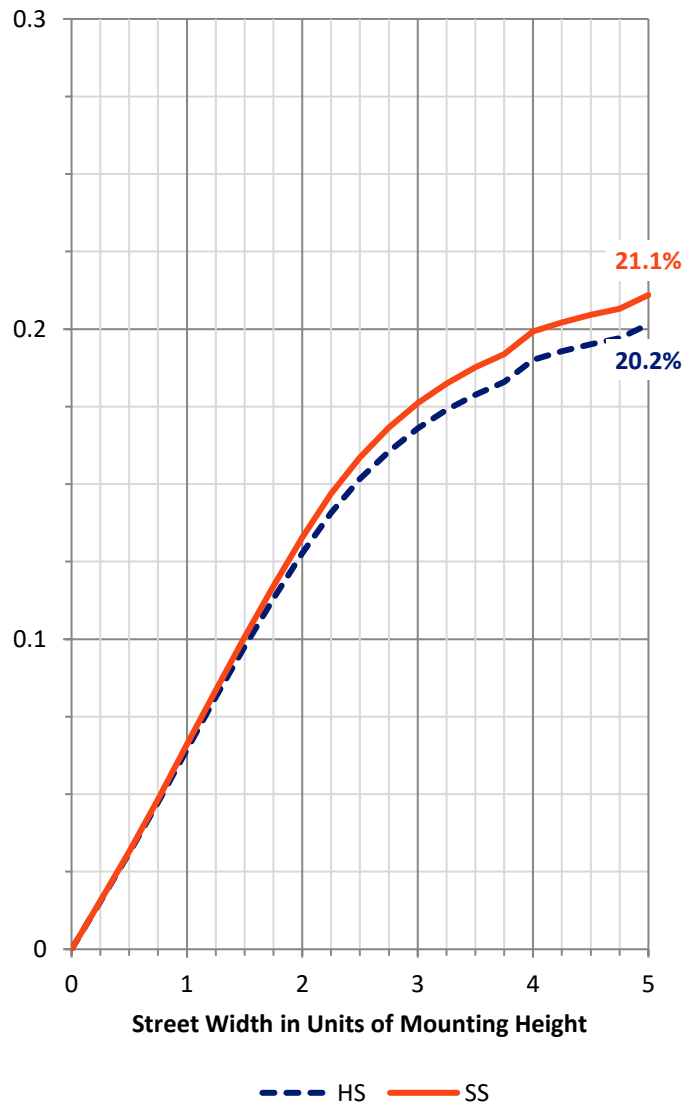
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5730.8	3825.5	9556.3
	% Lamp	20.8	13.9	34.8
<b>Street Side</b>	Lumens	6051.3	3980.5	10031.8
	% Lamp	22.0	14.5	36.5
<b>Total</b>	Lumens	11782.1	7806.0	19588.1
	% Lamp	42.8	28.4	71.2

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	8.1	0.0	0.0
10°-20°	36.9	0.2	0.1
20°-30°	90.5	0.5	0.3
30°-40°	229.4	1.2	0.8
40°-50°	617.9	3.2	2.2
50°-60°	1389.1	7.1	5.1
60°-70°	3937.5	20.1	14.3
70°-80°	4219.8	21.5	15.3
80°-90°	1252.9	6.4	4.6
90°-100°	698.8	3.6	2.5
100°-110°	1161.2	5.9	4.2
110°-120°	1477.8	7.5	5.4
120°-130°	1491.9	7.6	5.4
130°-140°	1211.0	6.2	4.4
140°-150°	862.1	4.4	3.1
150°-160°	535.9	2.7	1.9
160°-170°	223.5	1.1	0.8
170°-180°	49.6	0.3	0.2
0°-90°	11782.1	60.1	42.8
0°-180°	19588.1	100.0	71.2



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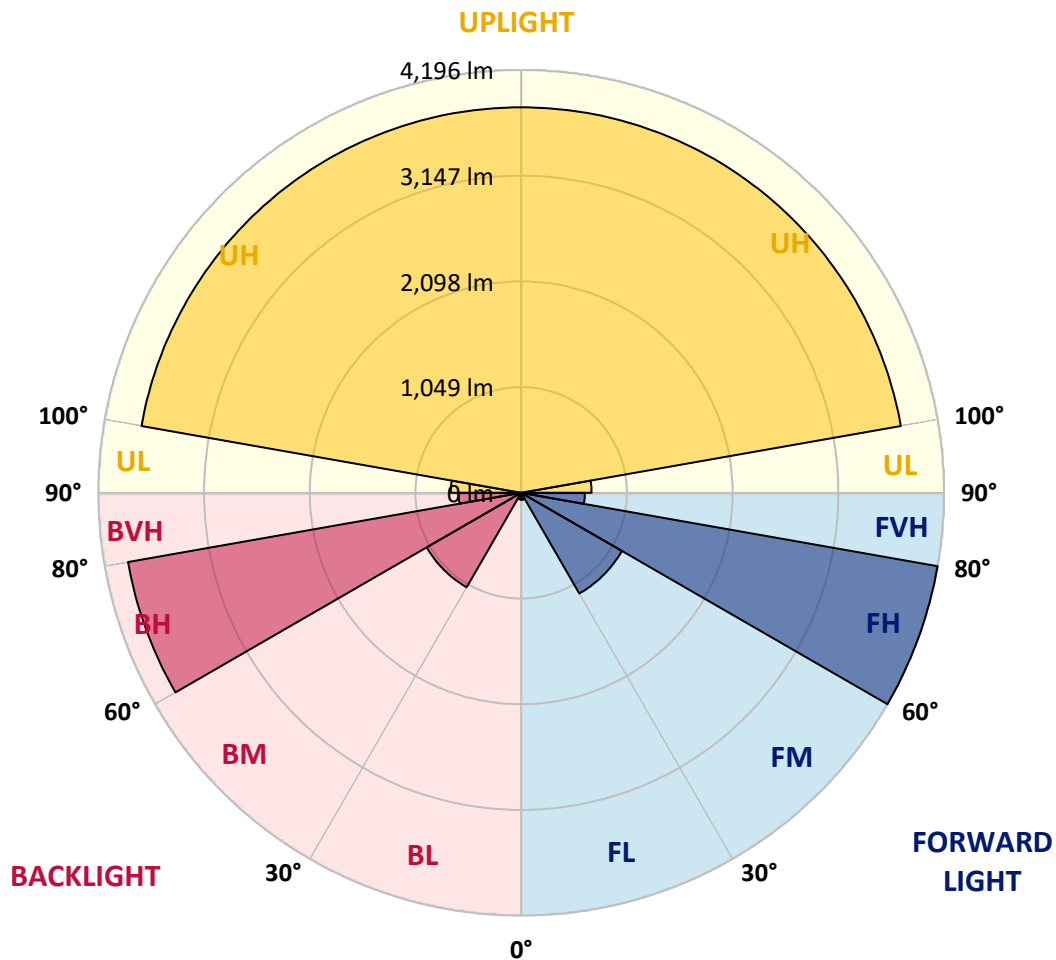
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	69.3	0.3			
FM	(30°-60°)	1154.3	4.2			
FH	(60°-80°)	4195.9	15.3			G2/5000
FVH	(80°-90°)	631.9	2.3			G4/750
BL	(0°-30°)	66.1	0.2	B0/110		
BM	(30°-60°)	1082.2	3.9	B2/2500		
BH	(60°-80°)	3961.4	14.4	B4/5000		G2/5000
BVH	(80°-90°)	621.0	2.3			G4/750
UL	(90°-100°)	698.8	2.5		U4/1000	
UH	(100°-180°)	3825.5	13.9		U5	
Trapped Light		7911.9	28.8			

**BUG Rating: B4-U5-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	82	82	82	82	82	82	82	82	82	82	82
2.5°	73	73	77	77	77	77	77	82	82	77	73
5°	73	73	73	82	82	82	77	73	73	73	68
7.5°	91	91	91	91	95	91	91	91	86	82	86
10°	100	100	109	105	105	105	105	105	95	95	91
12.5°	118	118	118	118	123	118	123	114	114	114	114
15°	127	132	132	132	136	132	132	136	132	127	127
17.5°	145	145	145	141	145	145	145	145	141	136	145
20°	155	155	159	155	159	155	159	150	159	150	155
22.5°	164	173	173	173	168	173	177	177	168	168	168
25°	191	195	191	191	195	191	200	195	191	191	191
27.5°	218	214	214	223	223	218	218	223	218	218	214
30°	255	250	255	255	250	250	255	255	250	250	245
32.5°	282	282	291	286	291	286	300	291	295	291	291
35°	346	346	346	350	346	341	346	350	350	350	346
37.5°	446	436	436	436	427	418	423	436	450	446	432
40°	573	568	568	564	550	550	564	573	582	586	573
42.5°	700	691	696	709	709	714	718	723	718	727	709
45°	764	755	782	823	850	864	846	827	805	786	768
47.5°	836	823	873	946	996	1009	973	950	891	836	823
50°	936	946	1005	1087	1146	1155	1123	1087	1005	932	918
52.5°	1164	1137	1200	1300	1414	1396	1368	1291	1173	1118	1118
55°	1373	1409	1464	1609	1718	1691	1687	1577	1432	1396	1387
57.5°	1573	1659	1723	1923	2032	1968	1982	1855	1678	1632	1596
60°	2191	2191	2214	2523	2578	2587	2505	2409	2196	2159	2132
62.5°	3564	3364	3355	3732	3691	3791	3610	3532	3378	3314	3337
65°	4582	4219	4191	4678	4469	4555	4414	4341	4310	4137	4164
67.5°	5001	4596	4637	5114	4887	5037	4842	4769	4696	4560	4632
70°	4901	4651	4746	5205	4882	5133	4951	4864	4714	4742	4832
72.5°	4664	4510	4592	5023	4669	4905	4810	4755	4582	4587	4669
75°	4264	4114	4060	4569	4255	4396	4382	4328	4201	4178	4237
77.5°	3628	3482	3405	3882	3573	3710	3696	3701	3573	3555	3614
80°	2509	2469	2459	2719	2469	2632	2591	2646	2587	2600	2628
82.5°	1591	1568	1550	1591	1396	1491	1482	1605	1650	1691	1682
85°	936	927	927	909	759	782	800	932	991	1014	1018
87.5°	627	623	632	646	559	577	586	668	668	664	664
90°	555	555	564	591	496	518	518	605	586	568	555
95°	636	650	664	682	446	455	468	700	673	650	618
105°	1300	1305	1346	1364	809	777	868	1432	1377	1382	1259
115°	1518	1518	1582	1573	1537	1473	1523	1614	1605	1591	1473
125°	1773	1778	1850	1832	1805	1773	1782	1791	1668	1632	1764
135°	1646	1641	1673	1664	1664	1664	1709	1718	1655	1650	1728
145°	1200	1196	1223	1227	1223	1218	1264	1264	1241	1314	1296
155°	1473	1477	1473	1487	1441	1414	1387	1296	1287	1346	1337
165°	600	609	618	627	632	632	636	609	605	582	573



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	600	609	618	627	632	632	636	609	605	582	573
180°	473	473	473	473	473	473	473	473	473	473	473





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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	82	82	82	82	82	82	82	82	82	82
2.5°	73	73	77	73	73	82	77	73	73	73
5°	68	68	68	73	73	73	68	73	68	64
7.5°	82	82	82	86	86	86	82	82	82	82
10°	95	95	95	100	100	91	95	100	91	91
12.5°	109	114	109	109	114	114	109	105	109	109
15°	127	123	127	127	127	127	118	123	118	127
17.5°	141	136	141	141	136	141	136	136	132	136
20°	150	159	150	150	145	155	155	150	150	145
22.5°	168	168	168	168	159	159	164	164	155	164
25°	191	191	186	191	186	182	177	186	182	182
27.5°	218	214	214	205	209	205	205	209	205	200
30°	245	250	245	236	236	232	241	241	232	236
32.5°	286	291	282	273	268	268	268	268	264	264
35°	346	346	332	327	318	323	314	318	318	318
37.5°	436	427	414	400	396	391	400	400	400	400
40°	582	568	536	527	509	509	518	527	532	536
42.5°	714	705	682	673	668	659	650	659	659	664
45°	773	791	782	786	796	777	750	736	727	718
47.5°	827	877	905	914	914	896	873	832	782	782
50°	932	977	1023	1041	1073	1050	1023	950	882	873
52.5°	1132	1150	1196	1273	1296	1291	1218	1132	1077	1073
55°	1409	1409	1473	1559	1568	1591	1491	1409	1346	1346
57.5°	1632	1627	1723	1778	1787	1750	1755	1600	1568	1482
60°	2118	2114	2328	2255	2241	2232	2278	2009	2032	1937
62.5°	3228	3237	3487	3264	3332	3255	3341	2996	3000	2919
65°	4132	4060	4428	4064	4128	4064	4255	3782	3814	3791
67.5°	4560	4573	4873	4442	4492	4528	4746	4223	4278	4373
70°	4660	4764	4932	4555	4569	4564	4819	4414	4369	4501
72.5°	4496	4619	4837	4410	4432	4382	4619	4360	4237	4282
75°	4041	4155	4528	3973	4014	4064	4196	3914	3846	3819
77.5°	3419	3460	3955	3400	3350	3491	3578	3228	3255	3219
80°	2523	2541	2900	2446	2382	2487	2582	2296	2355	2318
82.5°	1659	1623	1737	1441	1391	1441	1573	1446	1500	1455
85°	1023	991	996	796	755	786	918	877	909	882
87.5°	668	673	686	564	546	564	646	600	596	582
90°	573	577	600	491	482	491	573	536	523	509
95°	646	650	655	450	436	455	636	596	559	546
105°	1300	1323	1341	809	727	814	1264	1150	1018	982
115°	1505	1573	1582	1518	1514	1600	1696	1573	1346	1300
125°	1759	1823	1809	1773	1709	1718	1696	1532	1341	1300
135°	1718	1755	1700	1682	1650	1650	1637	1487	1337	1300
145°	1282	1277	1246	1250	1250	1255	1241	1141	1050	1018
155°	1405	1314	1332	1387	1400	1418	1418	1314	1264	1237
165°	582	609	636	673	696	718	714	696	682	673



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	582	609	636	518	459	182	114	141	68	64
180°	473	473	473	473	473	473	473	473	473	473

(END OF REPORT)