

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: 768868

Luminaire Tested: **ACN25SXX331XXR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 768868  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ACN25SXX331XXR  
Description: GENERATIONS POST TOP  
W/CLEAR TOP  
Light Source: 250 WATT HPS CLEAR E-18  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 27500 (1 lamp)  
Luminaire Lumens: 22607.3 lumens  
Efficiency: 82.2%  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B4 - U5 - G5

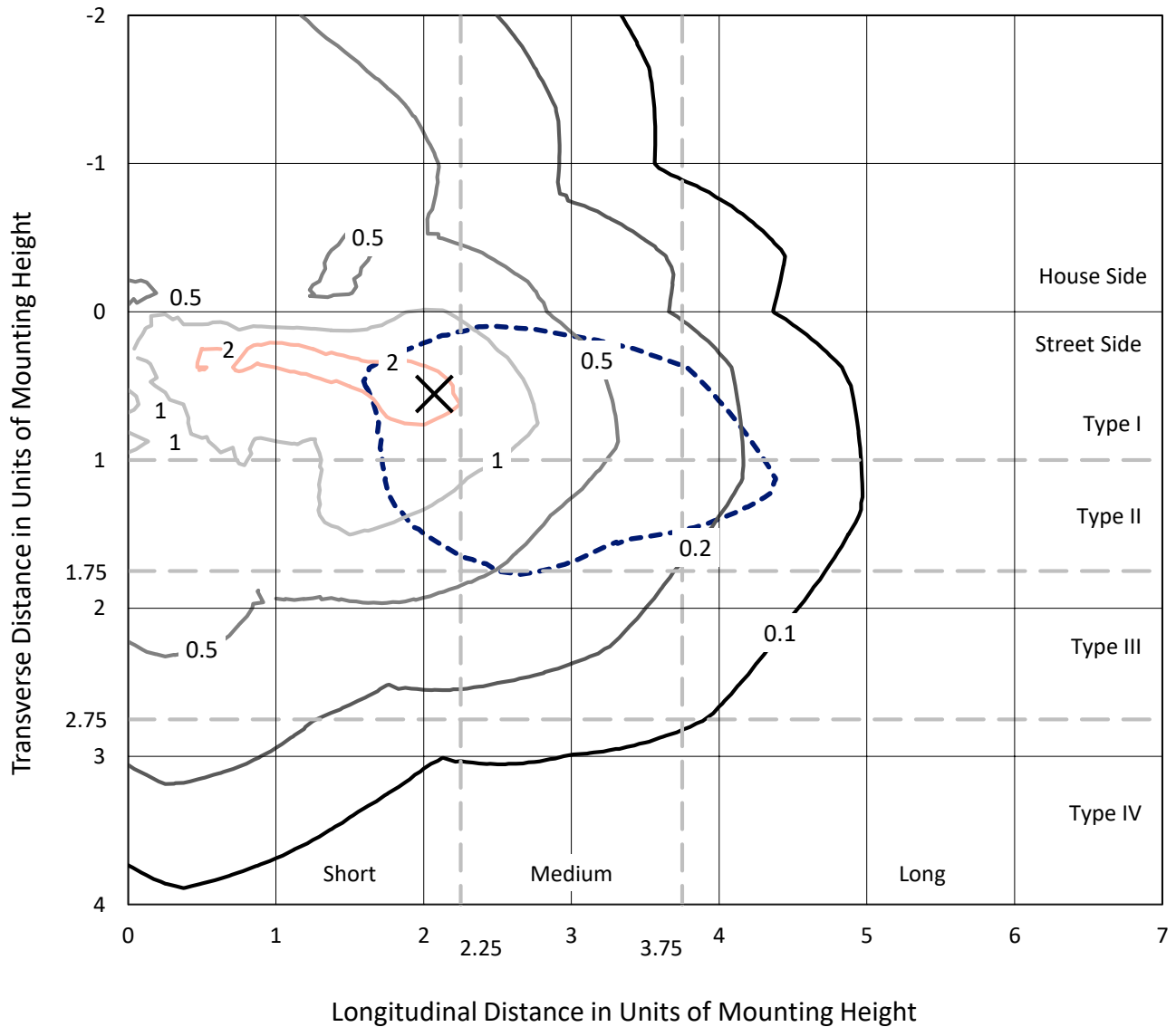
Input Watts (W): 250  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: 768868  
 CATALOG NUMBER: ACN25SXX331XXR

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

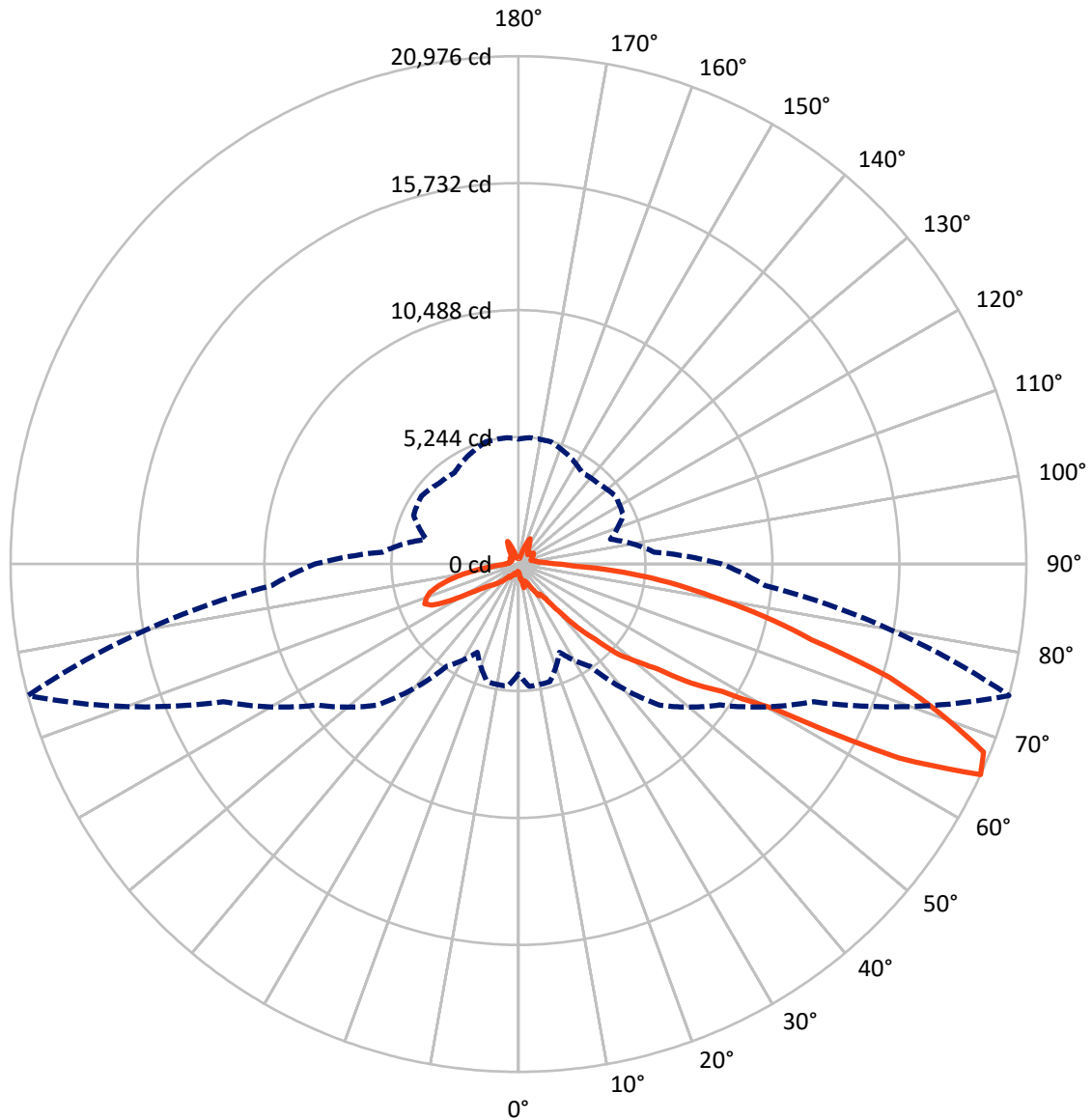


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type II - Short - Non-Cutoff

REPORT NUMBER: 768868

CATALOG NUMBER: ACN25SXX331XXR

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: 768868

CATALOG NUMBER: ACN25SXX331XXR

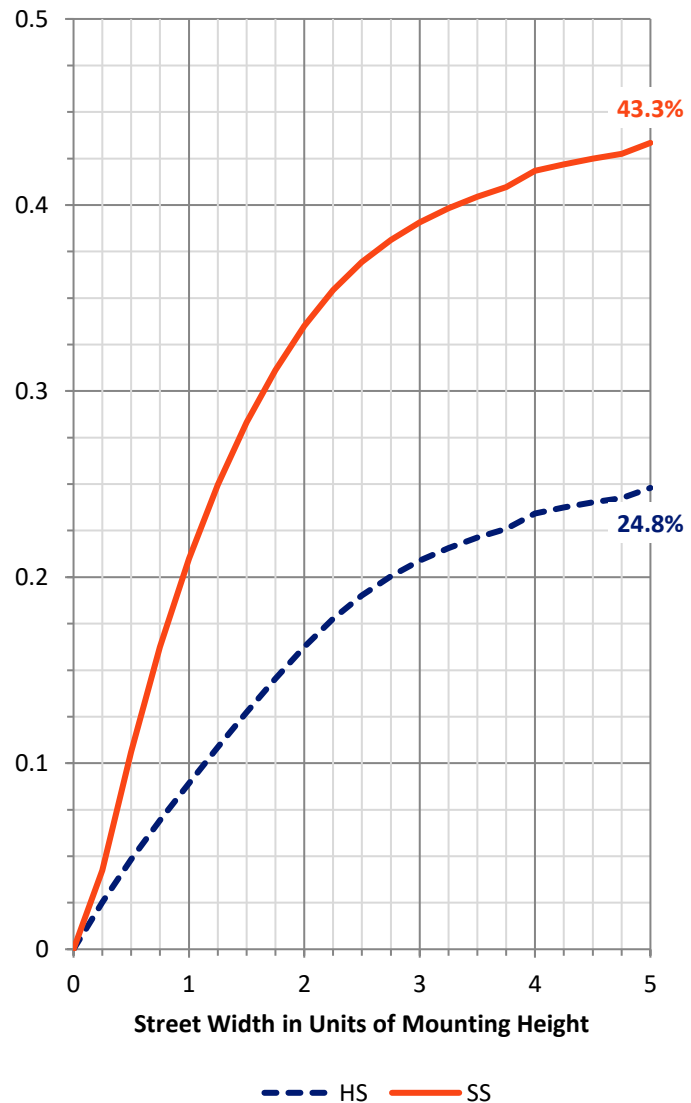
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7117.5	1458.0	8575.5
	% Lamp	25.9	5.3	31.2
<b>Street Side</b>	Lumens	12376.6	1655.2	14031.8
	% Lamp	45.0	6.0	51.0
<b>Total</b>	Lumens	19494.1	3113.2	22607.3
	% Lamp	70.9	11.3	82.2

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	38.4	0.2	0.1
10°-20°	181.4	0.8	0.7
20°-30°	362.9	1.6	1.3
30°-40°	682.6	3.0	2.5
40°-50°	1252.4	5.5	4.6
50°-60°	2460.7	10.9	8.9
60°-70°	6387.7	28.3	23.2
70°-80°	5955.9	26.3	21.7
80°-90°	2172.0	9.6	7.9
90°-100°	645.2	2.9	2.3
100°-110°	466.1	2.1	1.7
110°-120°	404.4	1.8	1.5
120°-130°	366.6	1.6	1.3
130°-140°	326.3	1.4	1.2
140°-150°	401.7	1.8	1.5
150°-160°	355.6	1.6	1.3
160°-170°	135.0	0.6	0.5
170°-180°	22.4	0.1	0.1
0°-90°	19494.1	86.2	70.9
0°-180°	22607.3	100.0	82.2

**Coefficient of Utilization**



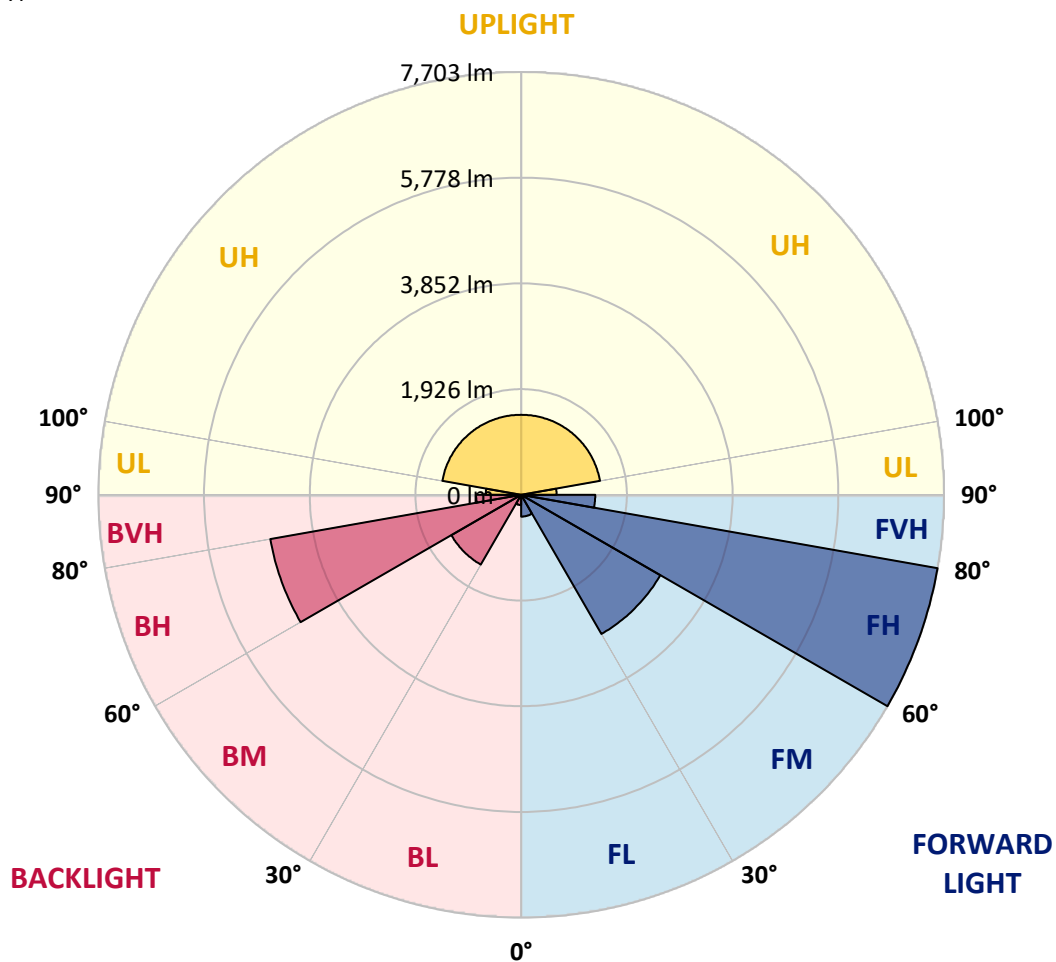
REPORT NUMBER: 768868

CATALOG NUMBER: ACN25SXX331XXR

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

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	396.9	1.4			
FM (30°-60°)	2927.1	10.6			
FH (60°-80°)	7703.3	28.0			G4/12000
FVH (80°-90°)	1349.3	4.9			G5
BL (0°-30°)	185.9	0.7	B1/500		
BM (30°-60°)	1468.7	5.3	B2/2500		
BH (60°-80°)	4640.2	16.9	B4/5000		G4/5000
BVH (80°-90°)	822.7	3.0			G5
UL (90°-100°)	645.2	2.3		U4/1000	
UH (100°-180°)	1458.0	5.3		U5	
Trapped Light	4892.7	17.8			

**BUG Rating: B4-U5-G5**  
 Type II Short





REPORT NUMBER: 768868

CATALOG NUMBER: ACN25SXX331XXR

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	355	355	355	355	355	355	355	355	355	355	355
2.5°	346	350	355	359	364	364	373	373	373	373	364
5°	391	391	409	446	450	468	473	477	450	418	396
7.5°	455	459	505	564	609	659	682	682	641	564	518
10°	436	441	477	541	614	673	705	668	582	509	473
12.5°	573	586	682	832	1055	1296	1387	1305	1009	736	618
15°	618	636	691	855	1105	1327	1414	1232	946	709	605
17.5°	573	577	609	800	1014	1164	1196	1032	786	596	523
20°	536	546	582	786	996	1132	1155	968	746	564	500
22.5°	636	627	632	827	1046	1264	1314	1155	827	614	536
25°	755	723	709	868	1132	1427	1505	1359	900	632	550
27.5°	918	882	823	923	1264	1573	1723	1637	1077	705	596
30°	1055	1009	932	991	1414	1687	1896	2014	1282	746	605
32.5°	1100	1064	946	1009	1523	1846	2296	2650	1559	855	727
35°	1000	964	855	846	1309	1437	1814	2382	1518	859	718
37.5°	1164	1123	1009	914	1509	1537	1691	2673	1800	846	686
40°	1482	1418	1273	1114	1950	1828	2009	3146	2555	905	727
42.5°	1691	1632	1468	1246	2196	1991	2214	3178	3573	1046	836
45°	1673	1632	1446	1218	2128	1987	2178	2791	4428	1218	959
47.5°	1773	1700	1527	1300	2255	2146	2364	2841	5583	1546	1105
50°	1946	1850	1664	1409	2450	2337	2546	2959	6305	2032	1314
52.5°	2246	2091	1846	1550	2778	2687	2914	3246	7206	2591	1632
55°	2600	2423	2105	1746	3187	3128	3419	3782	8692	3214	2055
57.5°	2719	2650	2359	1928	3378	3514	3901	4496	9942	4041	2819
60°	3119	3237	3028	2409	3887	4578	5378	6660	12111	5492	4332
62.5°	3991	4373	4269	3337	4728	6783	8147	10979	17648	7874	6442
65°	4537	5073	5028	4019	5160	8242	10151	13452	20976	10229	8401
67.5°	4537	5169	5087	4241	5101	8310	10683	13538	20721	11538	9192
70°	4382	5078	4882	4205	4719	7810	10592	12706	18480	11793	8678
72.5°	4082	4792	4505	3955	4055	7033	10074	11624	16029	11370	7687
75°	3610	4251	3923	3537	3355	5869	8906	9983	12524	10233	6701
77.5°	3155	3719	3391	3119	2869	4778	7787	8719	10347	8506	5401
80°	2519	2982	2691	2532	2314	3614	6064	6833	8101	6633	4178
82.5°	1973	2328	2091	1987	1800	2737	4496	5287	6278	4819	2955
85°	1373	1600	1450	1405	1273	1855	3005	3582	4360	2987	1823
87.5°	836	941	896	855	800	1077	1714	1950	2314	1682	1123
90°	636	700	677	659	627	786	1168	1255	1427	1187	846
95°	455	491	482	477	450	532	736	773	850	768	536
105°	318	332	332	323	314	350	436	482	541	486	391
115°	300	314	327	309	295	327	418	596	618	414	364
125°	418	423	427	418	396	446	500	714	773	514	455
135°	309	318	318	300	291	305	359	614	541	341	305
145°	582	586	582	577	559	550	605	836	696	577	555
155°	1118	1118	1127	1114	1109	1114	1100	1091	1150	1077	1132
165°	300	300	300	314	309	305	282	277	255	250	255



REPORT NUMBER: 768868

CATALOG NUMBER: ACN25SXX331XXR

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	27	27	41	164	155	150	164	141	255	250	255
180°	218	218	218	218	218	218	218	218	218	218	218





REPORT NUMBER: 768868

CATALOG NUMBER: ACN25SXX331XXR

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	355	355	355	355	355	355	355	355	355	355
2.5°	355	327	300	282	273	277	277	268	264	264
5°	373	323	273	232	214	200	209	214	232	227
7.5°	468	382	318	273	245	232	227	236	245	245
10°	427	377	332	295	277	273	264	268	273	282
12.5°	536	423	368	350	350	341	341	341	346	336
15°	536	455	405	377	377	382	386	396	396	400
17.5°	482	427	391	368	368	377	396	396	400	400
20°	459	409	391	386	396	400	414	423	423	418
22.5°	477	427	414	418	432	441	446	441	446	436
25°	514	464	459	473	486	491	496	491	486	482
27.5°	555	518	523	546	573	573	573	559	546	546
30°	568	564	582	609	627	636	636	623	614	609
32.5°	677	659	696	741	746	741	732	718	709	718
35°	650	618	659	696	723	727	727	718	714	718
37.5°	636	627	677	696	718	709	723	723	718	718
40°	714	746	800	809	814	800	809	814	796	782
42.5°	823	900	936	941	941	936	946	941	927	918
45°	932	1023	1059	1046	1055	1050	1055	1050	1050	1055
47.5°	1037	1159	1177	1155	1150	1177	1187	1155	1173	1173
50°	1146	1296	1337	1305	1291	1323	1355	1305	1300	1318
52.5°	1341	1432	1555	1518	1514	1505	1600	1505	1459	1500
55°	1564	1627	1796	1773	1787	1768	1923	1846	1764	1791
57.5°	1959	1905	2105	2109	2141	2073	2278	2287	2173	2146
60°	2809	2428	2732	2732	2741	2659	2900	3014	2832	2764
62.5°	4210	3260	3851	3910	3828	3701	4019	4187	4046	3955
65°	5637	3941	4778	4892	4687	4601	4928	5219	5237	5164
67.5°	6796	4205	5192	5269	5033	5019	5314	5696	5805	5728
70°	7337	4069	5064	5110	4923	4973	5205	5637	5874	5746
72.5°	7478	3851	4760	4792	4642	4682	4960	5346	5719	5583
75°	7106	3441	4205	4210	4073	4123	4392	4714	5160	5055
77.5°	5928	2941	3537	3519	3400	3464	3682	3982	4419	4319
80°	4473	2323	2732	2719	2619	2659	2819	3046	3428	3355
82.5°	3005	1664	1946	1937	1864	1846	1946	2082	2328	2346
85°	1732	1109	1273	1273	1246	1223	1255	1332	1441	1464
87.5°	1077	727	818	809	800	791	809	846	909	909
90°	823	568	618	614	605	605	623	655	709	709
95°	536	409	450	455	459	464	491	514	541	546
105°	414	355	400	414	468	491	500	514	514	509
115°	323	314	350	355	341	341	336	341	336	336
125°	405	427	423	432	432	427	427	405	418	409
135°	295	305	300	295	295	286	277	273	264	264
145°	573	555	527	514	491	473	459	423	423	427
155°	1082	1041	1055	1114	1155	1191	1191	1123	1109	1100
165°	255	250	286	300	305	305	300	282	277	273



REPORT NUMBER: 768868

CATALOG NUMBER: ACN25SXX331XXR

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	255	250	286	300	305	305	300	282	277	273
180°	218	218	218	218	218	218	218	218	218	218

(END OF REPORT)