

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: 768874

Luminaire Tested: **ACN25SXX3311X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768874
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN25SXX3311X
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: 19961.8 lumens
Efficiency: 72.6%
Efficacy: 79.8 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B4 - U5 - G5

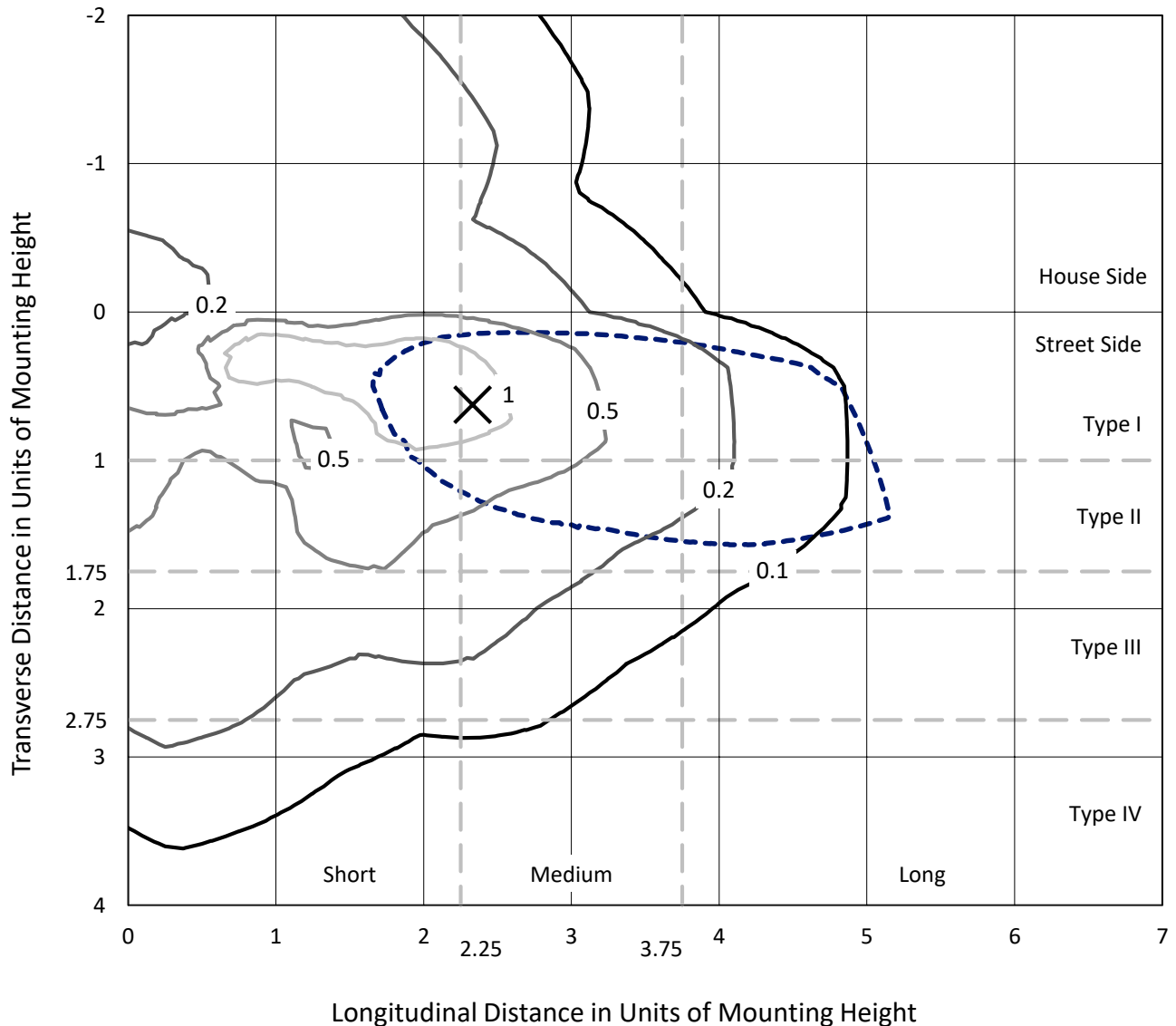
Input Watts (W): 250
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

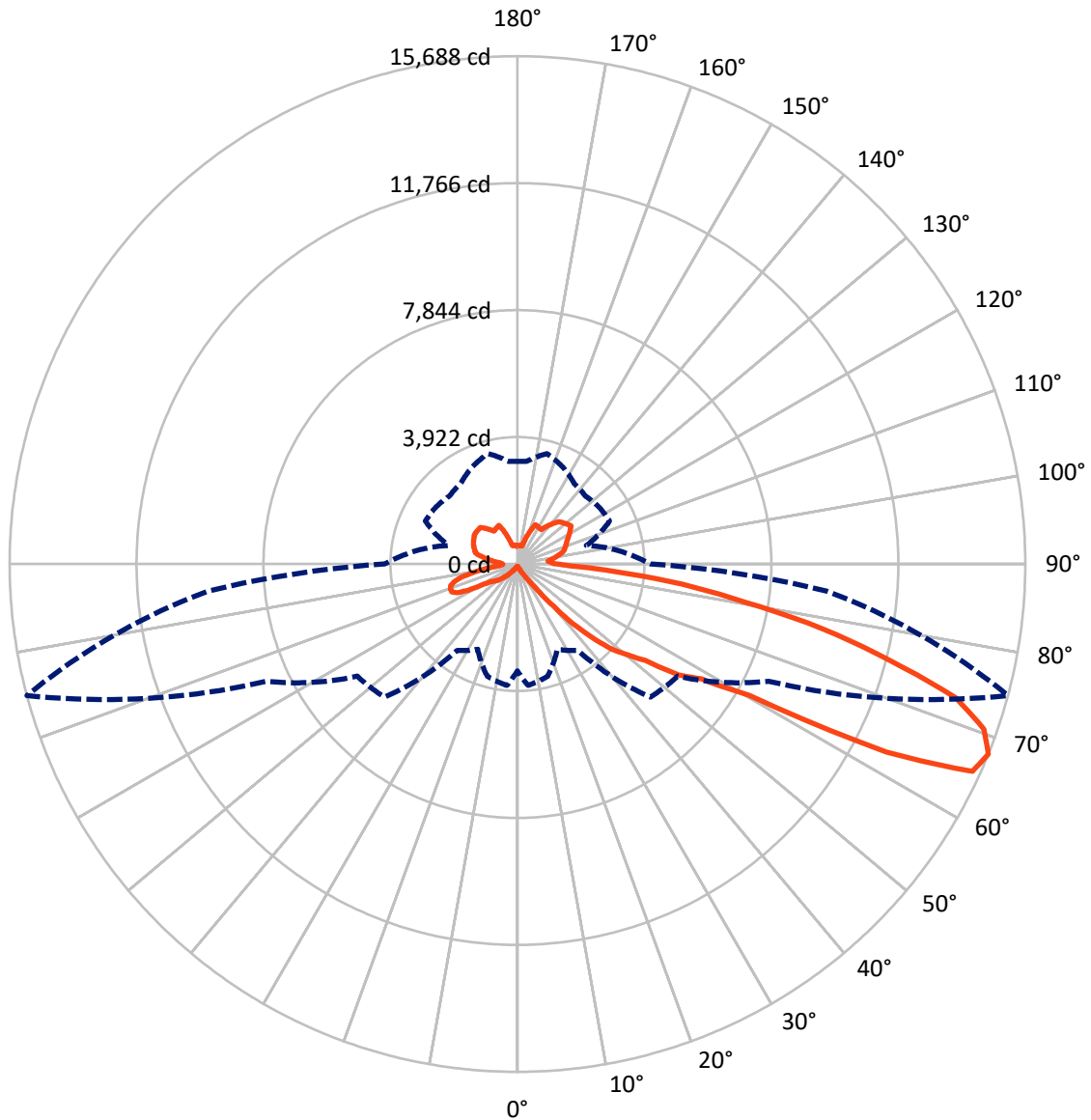
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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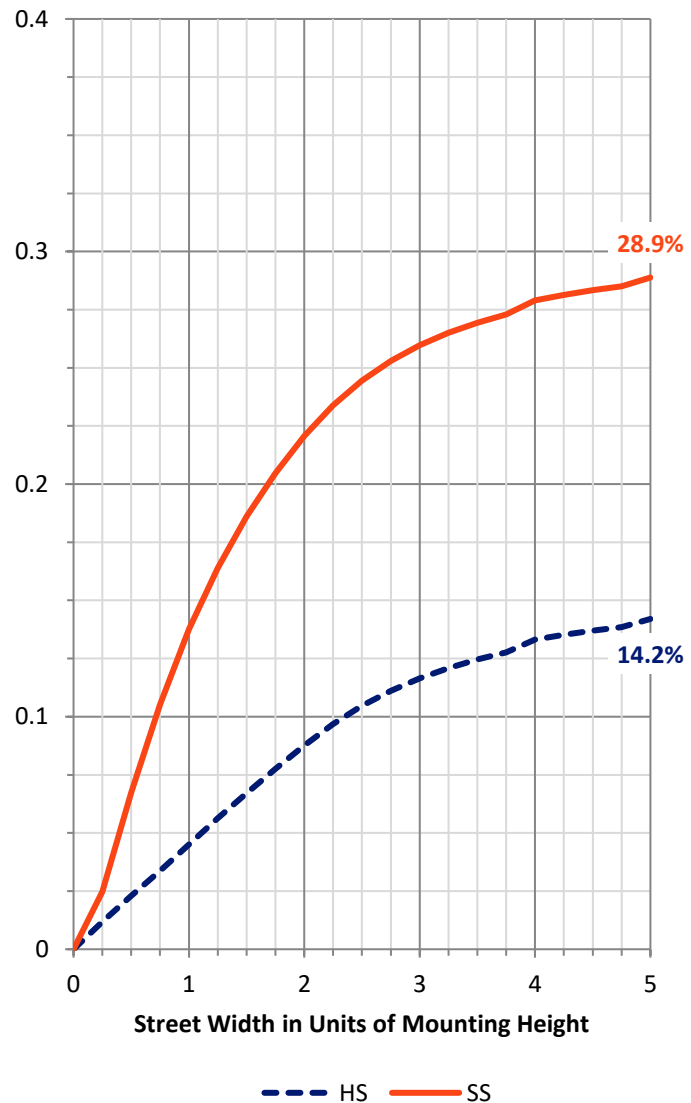
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4070.1	3622.7	7692.8
	% Lamp	14.8	13.2	28.0
Street Side	Lumens	8208.3	4060.7	12269.0
	% Lamp	29.8	14.8	44.6
Total	Lumens	12278.4	7683.4	19961.8
	% Lamp	44.6	27.9	72.6

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	8.8	0.0	0.0
10°-20°	35.5	0.2	0.1
20°-30°	94.8	0.5	0.3
30°-40°	292.9	1.5	1.1
40°-50°	771.0	3.9	2.8
50°-60°	1434.1	7.2	5.2
60°-70°	4063.9	20.4	14.8
70°-80°	4238.9	21.2	15.4
80°-90°	1338.3	6.7	4.9
90°-100°	687.6	3.4	2.5
100°-110°	1140.8	5.7	4.1
110°-120°	1450.1	7.3	5.3
120°-130°	1467.4	7.4	5.3
130°-140°	1195.9	6.0	4.3
140°-150°	850.1	4.3	3.1
150°-160°	524.9	2.6	1.9
160°-170°	221.5	1.1	0.8
170°-180°	53.2	0.3	0.2
0°-90°	12278.4	61.5	44.6
0°-180°	19961.8	100.0	72.6



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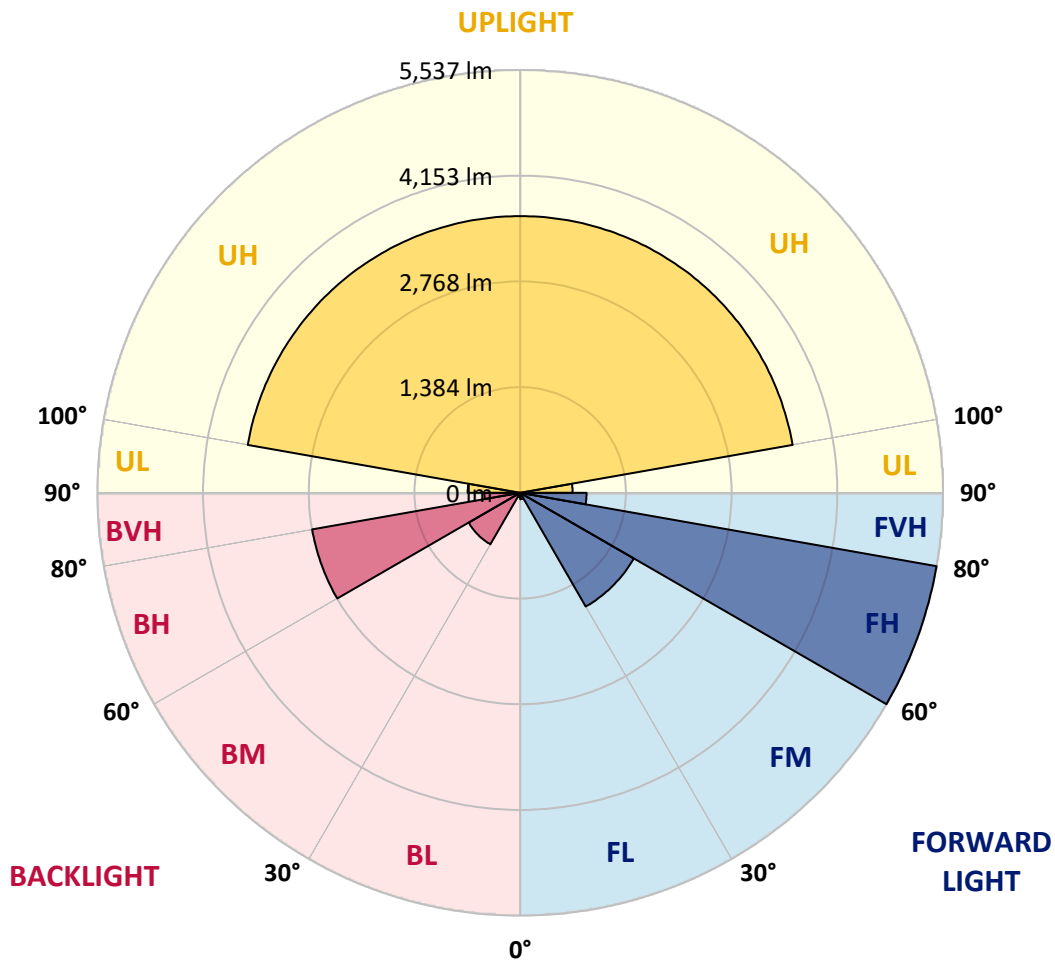
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	83.5	0.3			
FM	(30°-60°)	1719.0	6.3			
FH	(60°-80°)	5536.9	20.1			G3/7500
FVH	(80°-90°)	869.0	3.2			G5
BL	(0°-30°)	55.7	0.2	B0/110		
BM	(30°-60°)	779.1	2.8	B1/1000		
BH	(60°-80°)	2766.0	10.1	B4/5000		G4/5000
BVH	(80°-90°)	469.4	1.7			G3/500
UL	(90°-100°)	687.6	2.5		U4/1000	
UH	(100°-180°)	3622.7	13.2		U5	
Trapped Light		7538.2	27.4			

BUG Rating: B4-U5-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	100	100	100	100	100	100	100	100	100	100	100
2.5°	91	95	105	109	100	100	100	105	95	100	100
5°	100	95	91	95	91	95	91	91	86	77	77
7.5°	118	114	118	114	114	114	123	109	105	95	91
10°	118	114	118	118	127	123	123	114	105	95	91
12.5°	136	132	136	132	136	145	141	132	123	114	109
15°	145	141	145	141	155	159	159	150	136	127	123
17.5°	145	141	141	150	145	159	159	150	136	132	123
20°	155	159	155	155	164	173	182	177	164	150	141
22.5°	182	182	173	164	182	186	218	250	195	177	145
25°	255	250	218	209	223	214	282	355	245	209	168
27.5°	327	309	259	250	250	250	332	455	309	241	177
30°	382	364	300	291	291	264	382	586	373	264	191
32.5°	500	473	396	382	368	286	468	864	527	336	223
35°	636	614	500	482	468	314	546	1159	723	405	259
37.5°	864	836	696	636	609	364	705	1696	1096	527	309
40°	1173	1096	946	814	827	555	918	2405	1696	677	373
42.5°	1373	1291	1118	950	1032	873	1041	2782	2509	827	436
45°	1309	1237	1077	909	1046	1082	991	2291	3232	918	464
47.5°	1255	1223	1073	900	1105	1332	1018	1850	3932	1009	482
50°	1327	1291	1137	946	1218	1491	1123	1709	4414	1132	550
52.5°	1573	1455	1250	1037	1355	1732	1287	1805	4946	1341	723
55°	1818	1673	1432	1146	1541	2037	1518	2100	6037	1832	927
57.5°	1764	1714	1496	1168	1573	2146	1668	2387	6701	2569	1223
60°	1991	2050	1891	1473	1955	2850	2400	3710	8228	3846	1846
62.5°	2719	2964	2828	2178	2791	4505	4041	6619	12797	6192	2791
65°	3210	3605	3460	2678	3173	5564	5342	8306	15443	8388	3628
67.5°	3300	3764	3591	2905	3255	5810	6042	8574	15688	9592	4101
70°	3310	3814	3587	3019	3278	5724	6183	8465	15288	10315	4323
72.5°	3173	3701	3428	2959	3150	5346	6010	8069	14170	10601	4414
75°	2809	3319	3037	2696	2778	4523	5283	7119	11874	9942	4223
77.5°	2391	2846	2587	2332	2332	3473	4364	6083	9656	8356	3696
80°	1818	2187	1978	1787	1759	2309	2900	4537	7133	6214	2823
82.5°	1300	1587	1423	1268	1237	1455	1518	3241	5110	4160	1868
85°	827	991	905	796	791	823	786	1923	3032	2264	1091
87.5°	555	655	618	559	527	546	559	1082	1600	1277	732
90°	500	577	555	536	459	473	496	814	1109	977	618
95°	591	673	664	646	405	400	436	782	946	877	618
105°	1264	1355	1364	1327	727	677	746	1400	1477	1455	1273
115°	1682	1696	1714	1705	1564	1505	1468	1650	1700	1623	1487
125°	1700	1691	1755	1741	1750	1764	1746	1909	2032	1732	1655
135°	1682	1687	1728	1691	1687	1682	1687	1855	1832	1700	1623
145°	1282	1287	1291	1282	1250	1237	1264	1396	1291	1250	1177
155°	1391	1396	1409	1382	1377	1359	1327	1327	1337	1364	1350
165°	664	664	668	673	664	641	618	605	573	582	586



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	536	473	232	209	355	559	618	605	573	582	586
180°	536	536	536	536	536	536	536	536	536	536	536



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	100	100	100	100	100	100	100	100	100	100
2.5°	100	100	100	91	86	86	86	95	86	91
5°	77	77	64	68	68	64	55	64	64	73
7.5°	86	86	82	82	77	77	73	73	77	82
10°	86	86	82	82	82	82	77	82	77	82
12.5°	100	95	95	91	91	91	91	95	95	100
15°	114	109	109	109	109	109	109	109	114	109
17.5°	118	114	109	109	114	109	114	114	118	118
20°	132	123	123	123	127	132	127	127	127	136
22.5°	141	132	136	136	136	136	136	136	141	136
25°	155	145	145	155	155	164	164	159	159	155
27.5°	164	168	164	173	182	173	177	177	177	173
30°	182	186	182	195	195	195	200	195	200	191
32.5°	209	218	227	232	232	227	232	232	227	227
35°	245	255	264	268	268	268	273	273	273	273
37.5°	286	314	327	327	327	327	332	336	336	336
40°	355	396	423	405	405	409	427	432	436	427
42.5°	409	482	518	509	505	514	541	541	541	536
45°	450	555	600	600	600	609	636	614	596	600
47.5°	482	632	682	677	673	705	727	664	623	618
50°	546	755	809	777	782	809	809	732	677	664
52.5°	668	841	941	914	932	936	964	814	764	764
55°	773	914	1046	1009	1059	1064	1159	955	923	927
57.5°	918	1005	1155	1146	1205	1177	1318	1118	1068	1073
60°	1346	1259	1523	1514	1555	1537	1678	1518	1396	1382
62.5°	2118	1714	2246	2237	2241	2196	2423	2355	2159	2137
65°	2923	2059	2828	2800	2723	2719	2973	3100	2837	2809
67.5°	3460	2205	3137	3073	2969	3046	3305	3528	3182	3173
70°	3632	2209	3169	3082	3050	3160	3405	3719	3360	3346
72.5°	3623	2168	3037	2973	2987	3069	3373	3691	3364	3373
75°	3387	2023	2759	2705	2723	2800	3132	3414	3105	3155
77.5°	2800	1737	2309	2264	2287	2369	2664	2900	2659	2728
80°	1982	1337	1664	1637	1641	1714	1941	2137	2041	2073
82.5°	1218	896	1041	1000	986	1037	1205	1341	1350	1364
85°	741	609	668	582	568	609	714	800	823	827
87.5°	550	468	496	423	418	441	505	546	550	536
90°	509	446	459	382	382	386	464	477	468	446
95°	577	568	568	364	364	364	559	550	523	500
105°	1268	1332	1332	796	718	800	1227	1155	1023	964
115°	1446	1491	1500	1423	1432	1432	1459	1337	1155	1109
125°	1623	1609	1646	1673	1659	1687	1678	1527	1364	1318
135°	1587	1609	1609	1605	1587	1577	1555	1423	1291	1246
145°	1214	1246	1205	1191	1168	1159	1155	1050	977	955
155°	1300	1323	1291	1337	1368	1400	1396	1318	1296	1282
165°	577	591	614	614	627	627	614	600	586	591



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	577	591	614	614	627	627	614	600	586	591
180°	536	536	536	536	536	536	536	536	536	536

(END OF REPORT)