

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: 768867

Luminaire Tested: **ACN25SXX331XX**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768867
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN25SXX331XX
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: 25154 lumens
Efficiency: 91.5%
Efficacy: 100.6 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B4 - U5 - G5

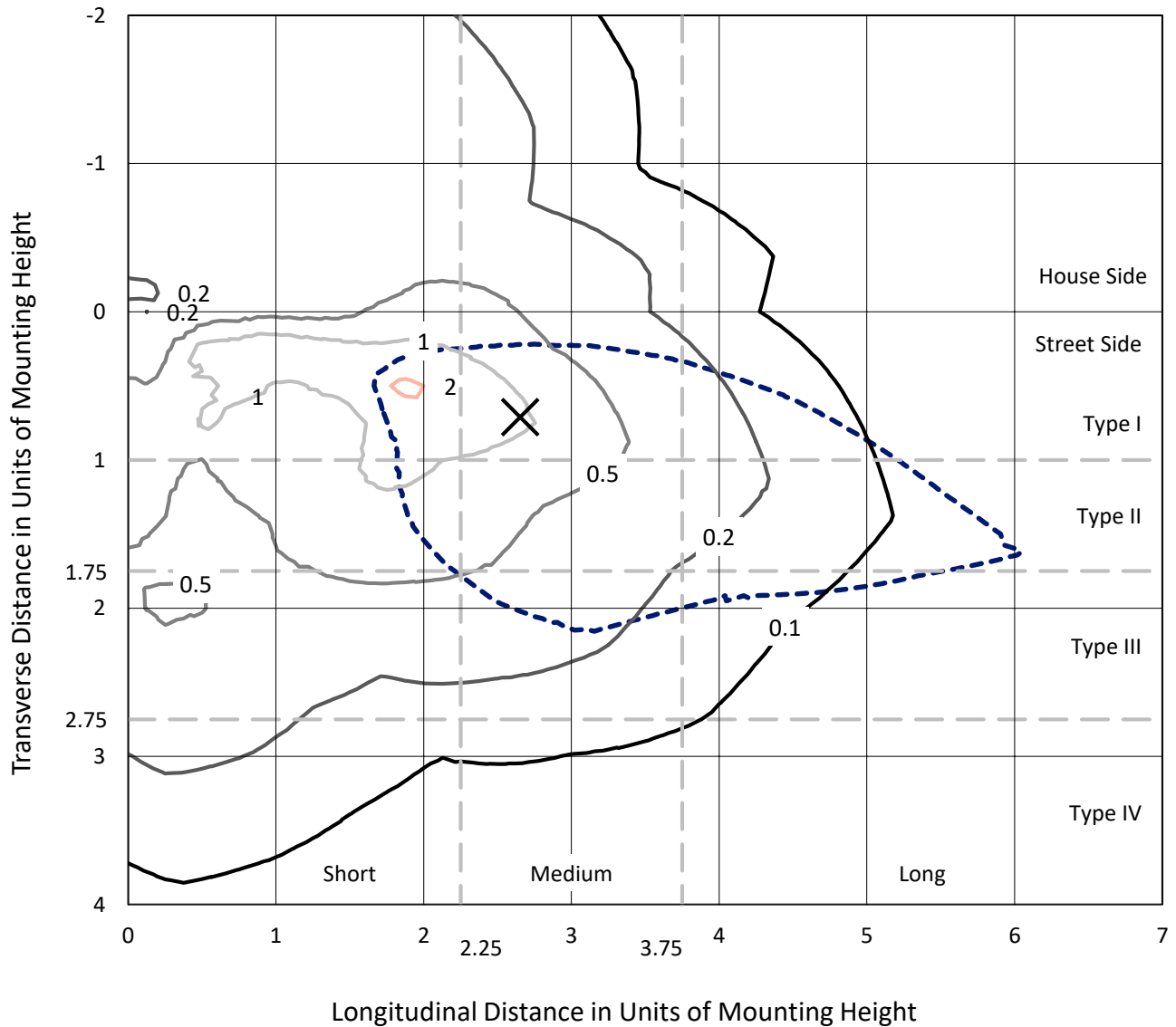
Input Watts (W): 250
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

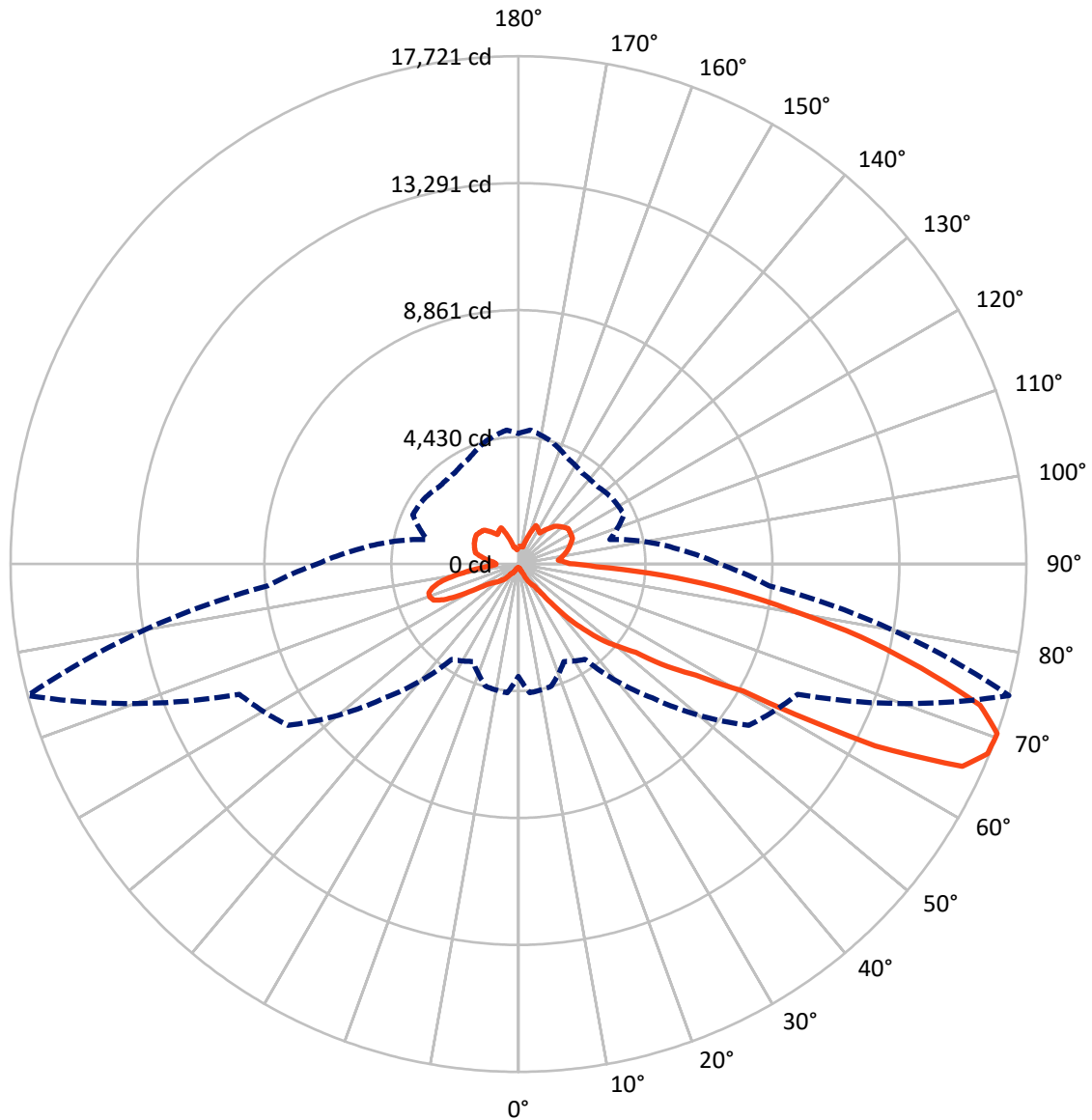
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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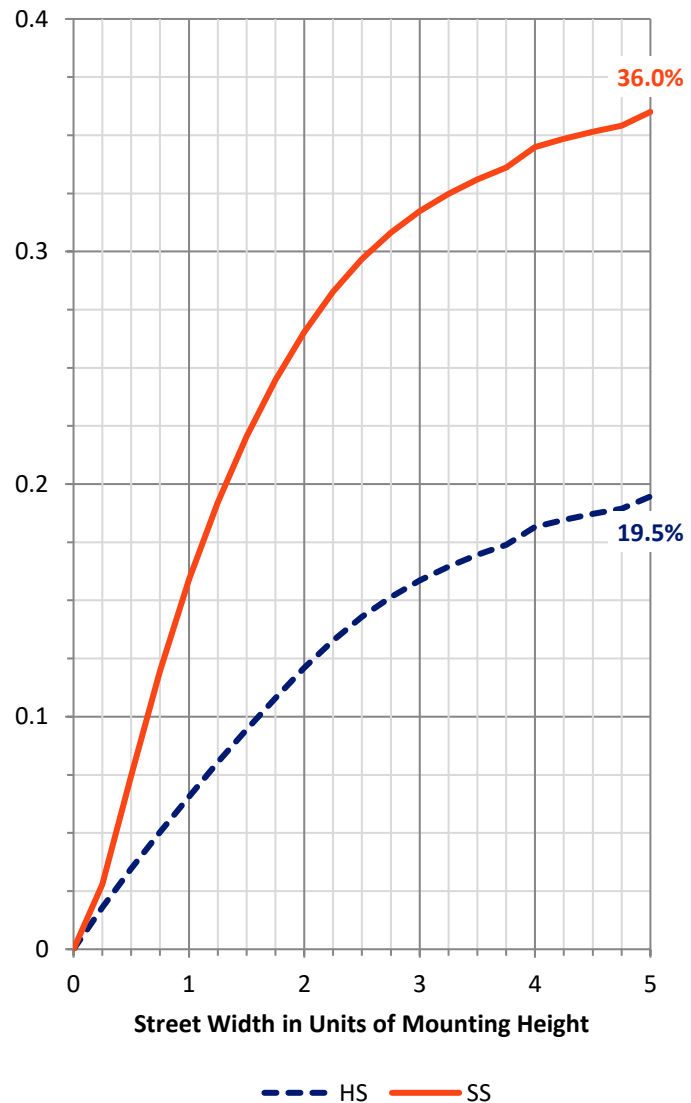
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5699.3	4298.7	9998.1
	% Lamp	20.7	15.6	36.4
Street Side	Lumens	10385.6	4770.4	15155.9
	% Lamp	37.8	17.3	55.1
Total	Lumens	16084.9	9069.1	25154.0
	% Lamp	58.5	33.0	91.5

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	12.8	0.1	0.0
10°-20°	51.4	0.2	0.2
20°-30°	172.4	0.7	0.6
30°-40°	448.9	1.8	1.6
40°-50°	951.6	3.8	3.5
50°-60°	1704.7	6.8	6.2
60°-70°	4915.1	19.5	17.9
70°-80°	5561.9	22.1	20.2
80°-90°	2266.0	9.0	8.2
90°-100°	1146.8	4.6	4.2
100°-110°	1561.4	6.2	5.7
110°-120°	1705.8	6.8	6.2
120°-130°	1586.4	6.3	5.8
130°-140°	1259.5	5.0	4.6
140°-150°	883.1	3.5	3.2
150°-160°	536.9	2.1	2.0
160°-170°	226.7	0.9	0.8
170°-180°	56.9	0.2	0.2
0°-90°	16084.9	63.9	58.5
0°-180°	25154.0	100.0	91.5



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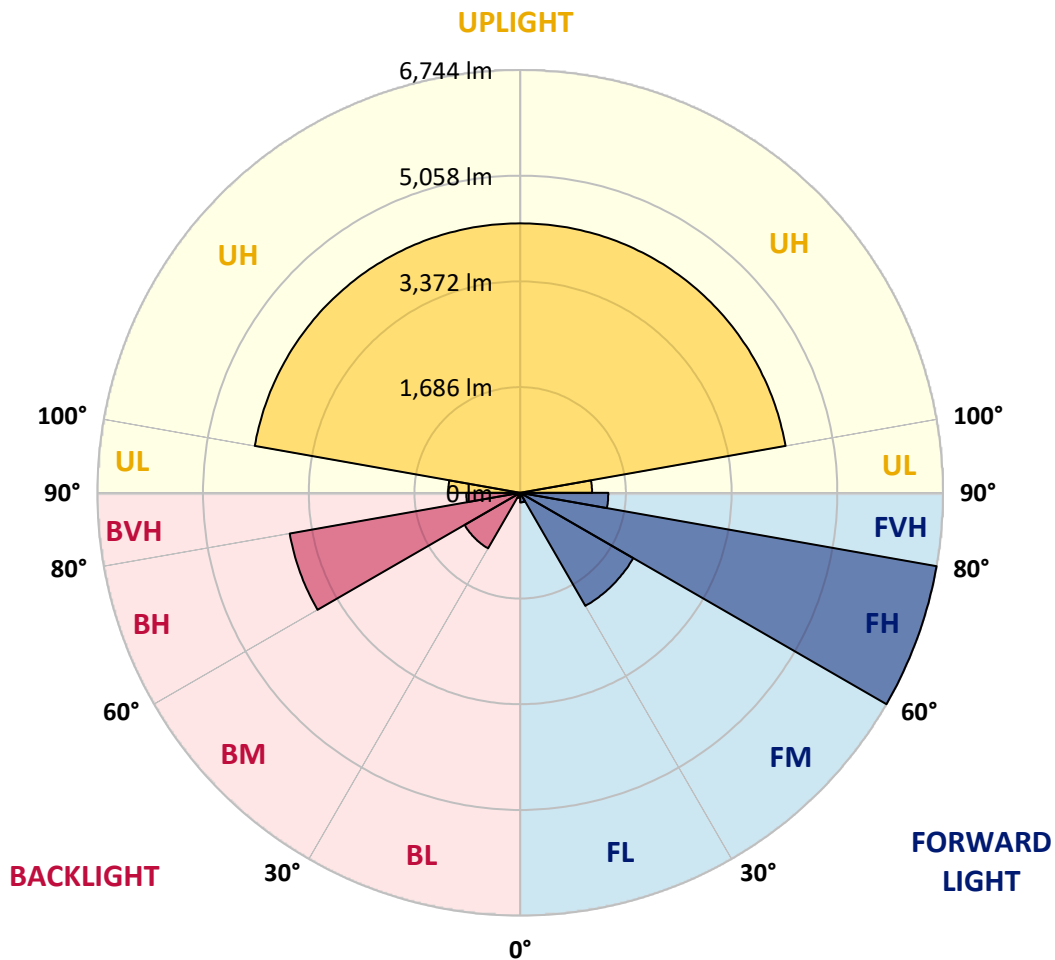
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	153.7	0.6			
FM (30°-60°)	2082.6	7.6			
FH (60°-80°)	6744.3	24.5			G3/7500
FVH (80°-90°)	1405.1	5.1			G5
BL (0°-30°)	83.0	0.3	B0/110		
BM (30°-60°)	1022.7	3.7	B2/2500		
BH (60°-80°)	3732.7	13.6	B4/5000		G4/5000
BVH (80°-90°)	861.0	3.1			G5
UL (90°-100°)	1146.8	4.2		U5	
UH (100°-180°)	4298.7	15.6		U5	
Trapped Light	2346.0	8.5			

BUG Rating: B4-U5-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	164	164	164	164	164	164	164	164	164	164	164
2.5°	164	159	159	155	145	150	145	145	150	145	155
5°	164	159	155	145	150	141	136	145	136	132	132
7.5°	164	159	159	155	150	155	155	155	145	132	127
10°	164	164	168	168	173	173	182	168	159	145	141
12.5°	173	173	168	177	186	195	214	195	177	159	150
15°	191	182	186	191	209	241	250	227	191	177	173
17.5°	200	209	200	205	241	268	286	245	205	182	173
20°	245	245	232	241	305	332	350	309	236	205	195
22.5°	318	314	277	291	386	418	455	409	286	232	214
25°	409	386	336	350	486	527	586	577	368	264	232
27.5°	609	568	468	473	736	800	832	923	555	341	277
30°	782	736	586	582	941	973	1018	1264	732	405	323
32.5°	846	800	623	605	977	959	1127	1559	846	432	364
35°	809	755	614	573	932	896	1105	1705	936	436	377
37.5°	936	891	750	646	1123	1059	1264	2187	1264	486	427
40°	1209	1155	1009	814	1514	1423	1591	2750	1905	605	514
42.5°	1446	1396	1227	964	1805	1673	1828	2955	2709	741	614
45°	1409	1377	1191	927	1700	1582	1691	2382	3337	859	691
47.5°	1373	1314	1155	909	1682	1577	1705	1923	4014	1046	768
50°	1437	1350	1200	950	1778	1682	1791	1759	4523	1346	900
52.5°	1655	1514	1323	1027	1987	1882	2037	1887	5128	1700	1096
55°	1964	1791	1523	1177	2305	2209	2428	2273	6319	2132	1350
57.5°	2028	1909	1668	1255	2323	2364	2673	2728	7310	2732	1882
60°	2237	2278	2128	1564	2641	3119	3814	4278	9001	3710	2987
62.5°	3019	3319	3264	2446	3469	5114	6355	7824	13975	5360	4660
65°	3646	4123	4105	3182	3964	6437	8151	9992	17025	6892	6196
67.5°	3819	4373	4351	3550	4096	6655	9238	10597	17657	8006	7037
70°	3919	4510	4419	3751	4060	6605	9815	10747	17721	8788	7019
72.5°	3873	4460	4305	3764	3837	6451	9760	10570	16843	9129	6655
75°	3564	4096	3891	3487	3378	5778	8797	9715	14516	8701	5946
77.5°	3173	3641	3419	3128	2950	4782	7674	8724	12215	7619	5037
80°	2573	2932	2750	2550	2387	3569	6042	6955	9542	6069	3960
82.5°	2018	2305	2137	2009	1855	2673	4442	5373	7387	4464	2864
85°	1382	1568	1473	1400	1300	1787	2909	3641	5064	2828	1823
87.5°	955	1032	1000	946	877	1137	1696	2041	2709	1682	1205
90°	855	900	877	836	777	941	1218	1423	1768	1296	1000
95°	955	977	991	955	864	977	1073	1227	1396	1200	996
105°	1518	1546	1627	1605	1728	1605	1700	1691	1778	1655	1573
115°	1591	1587	1664	1668	1718	1782	1937	2059	2091	1814	1773
125°	1937	1900	1855	1855	1864	1891	1932	2118	2132	1864	1796
135°	1828	1800	1782	1750	1732	1750	1773	2018	1855	1700	1659
145°	1373	1341	1346	1300	1300	1287	1332	1509	1314	1232	1227
155°	1382	1300	1346	1300	1359	1387	1450	1473	1477	1418	1400
165°	573	577	596	609	618	632	632	632	618	618	618



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	573	577	596	609	546	632	632	632	618	618	618
180°	591	591	591	591	591	591	591	591	591	591	591



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	164	164	164	164	164	164	164	164	164	164
2.5°	150	145	141	136	136	141	141	141	132	136
5°	123	118	105	95	100	95	100	105	109	109
7.5°	123	118	105	105	95	95	100	100	109	109
10°	136	127	123	114	114	109	109	114	109	109
12.5°	141	132	132	132	127	127	118	123	127	136
15°	164	150	150	145	150	145	145	145	145	145
17.5°	168	164	159	155	155	155	155	155	155	155
20°	182	177	177	177	177	182	173	182	177	182
22.5°	200	195	195	205	200	200	195	200	200	200
25°	214	218	218	232	232	232	232	227	223	227
27.5°	255	268	273	282	291	286	282	277	268	264
30°	295	323	327	350	355	350	336	327	314	318
32.5°	336	359	368	396	400	382	382	373	364	364
35°	359	382	400	423	427	418	418	414	405	400
37.5°	409	441	468	486	496	486	486	486	477	464
40°	505	555	596	605	614	609	609	614	596	582
42.5°	609	696	723	727	736	736	741	741	723	718
45°	686	777	796	782	796	814	814	805	805	800
47.5°	746	859	864	841	841	891	905	868	877	873
50°	796	955	968	941	941	982	1000	955	941	946
52.5°	923	1037	1114	1077	1105	1100	1182	1073	1027	1055
55°	1064	1146	1241	1209	1246	1237	1355	1282	1214	1227
57.5°	1300	1314	1409	1377	1418	1391	1550	1546	1441	1427
60°	1864	1709	1868	1828	1846	1809	1982	2073	1932	1864
62.5°	2932	2369	2773	2764	2700	2614	2846	2969	2887	2800
65°	4046	2896	3505	3514	3323	3260	3500	3714	3755	3682
67.5°	5019	3219	3928	3896	3696	3682	3891	4187	4332	4237
70°	5678	3300	4069	3996	3855	3878	4069	4432	4692	4555
72.5°	6174	3287	4032	3960	3860	3869	4105	4455	4851	4692
75°	6237	3123	3764	3691	3600	3610	3864	4182	4637	4519
77.5°	5592	2805	3337	3264	3187	3219	3423	3691	4114	4091
80°	4392	2291	2659	2619	2555	2559	2719	2923	3264	3282
82.5°	3032	1723	1964	1941	1896	1864	1973	2105	2337	2391
85°	1850	1205	1355	1341	1350	1300	1355	1427	1537	1582
87.5°	1218	873	946	927	946	905	946	968	1014	1037
90°	1027	773	800	764	800	750	814	818	850	855
95°	1027	877	882	836	896	823	923	882	846	846
105°	1600	1546	1555	1582	1582	1659	1577	1450	1341	1309
115°	1709	1691	1718	1728	1732	1687	1641	1496	1387	1364
125°	1750	1787	1782	1800	1796	1768	1746	1582	1309	1282
135°	1668	1687	1664	1691	1668	1668	1664	1546	1350	1309
145°	1237	1259	1241	1250	1223	1227	1250	1159	1077	1000
155°	1405	1405	1387	1400	1387	1337	1327	1268	1287	1273
165°	618	627	646	659	659	646	627	582	600	627



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	618	500	646	505	586	473	482	582	600	627
180°	591	591	591	591	591	591	591	591	591	591

(END OF REPORT)