

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: 768876

Luminaire Tested: **ACN25SXX5511XR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768876
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN25SXX5511XR
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: 17338.1 lumens
Efficiency: 63.0%
Efficacy: 69.4 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U5 - G4

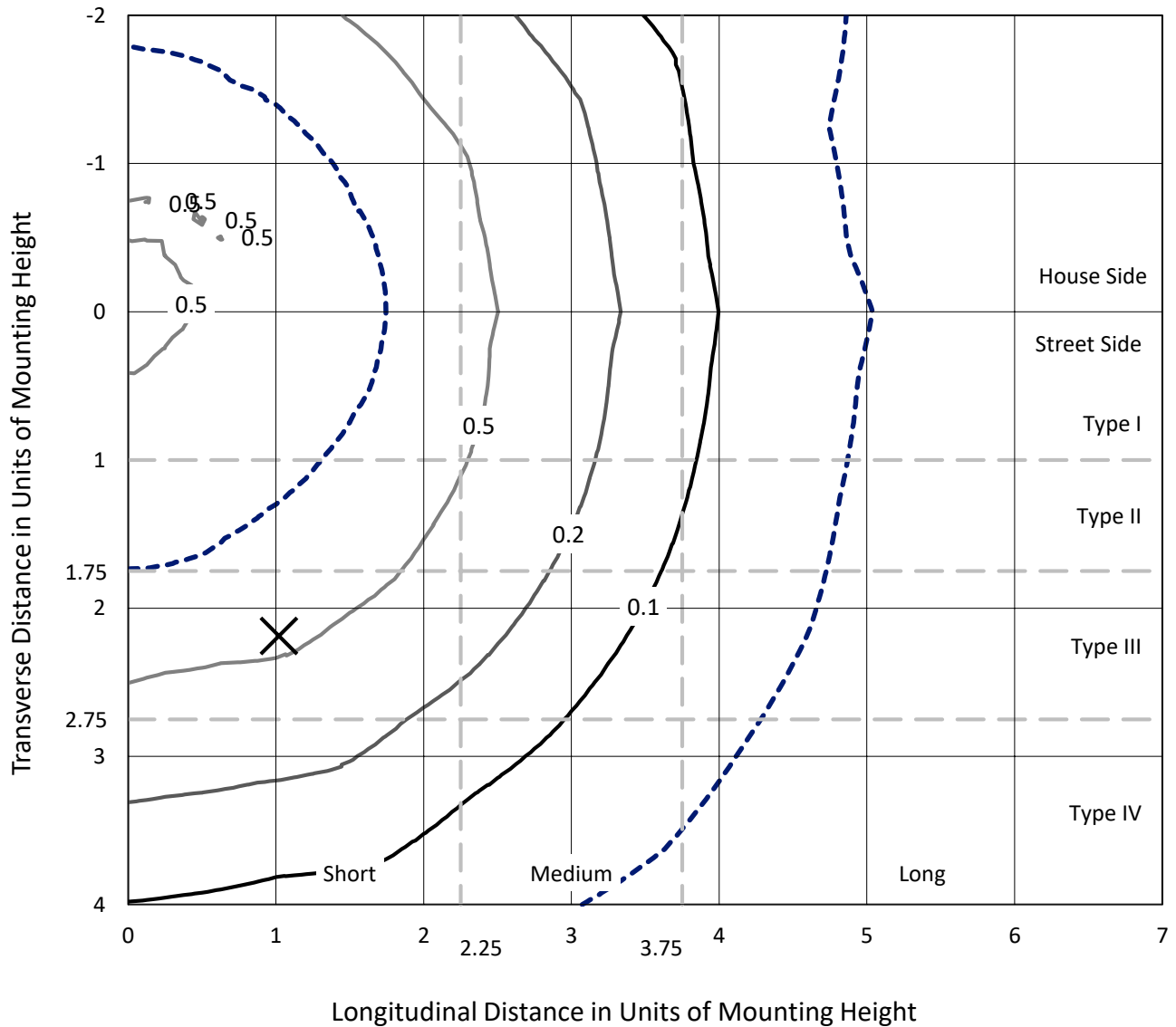
Input Watts (W): 250
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

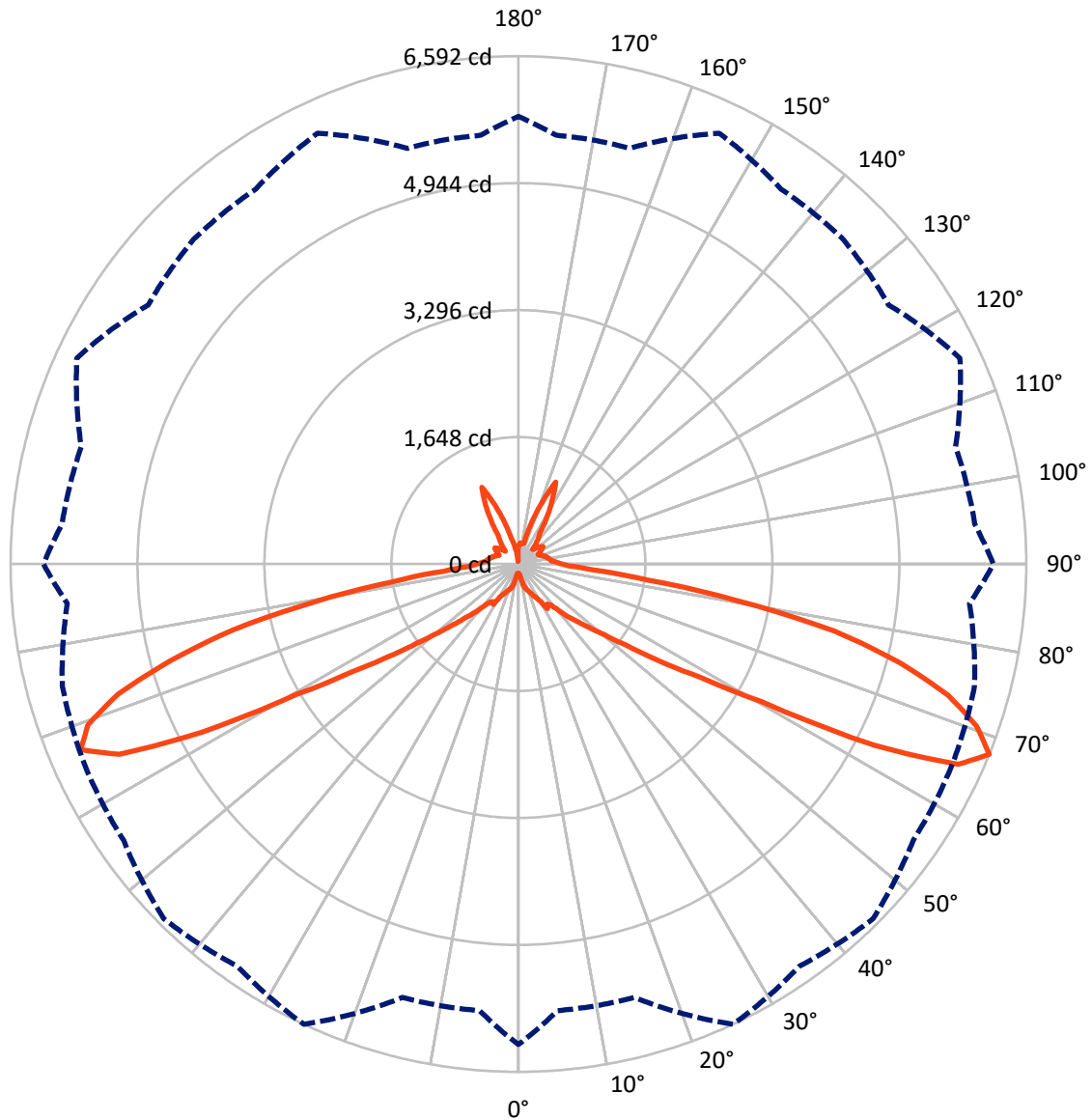


Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 25-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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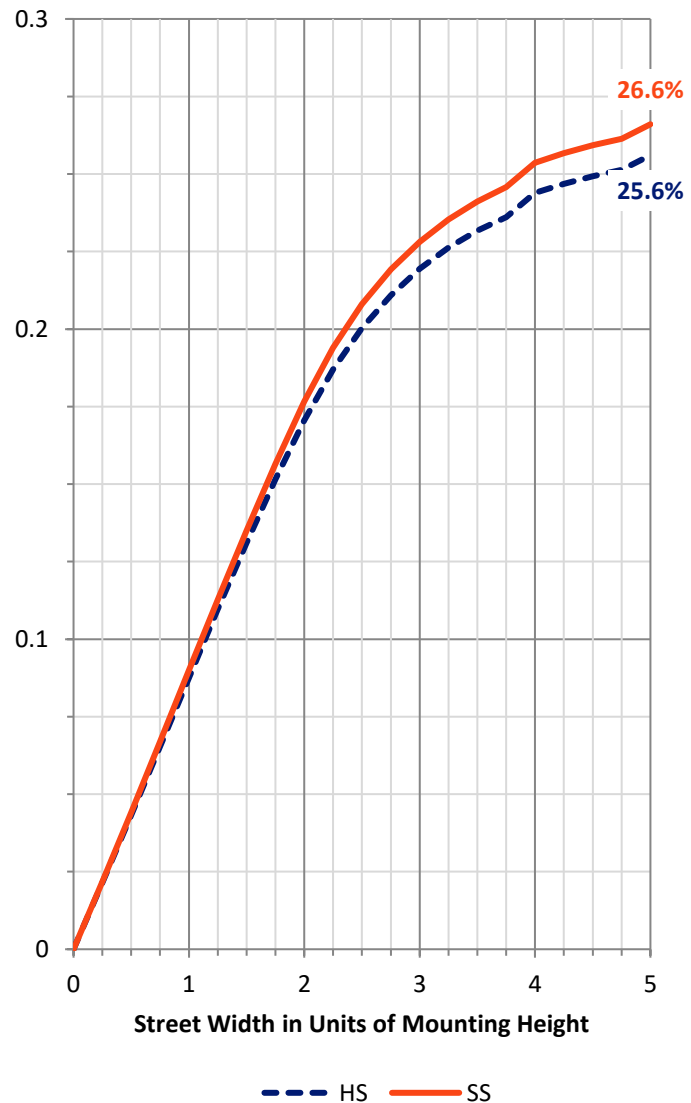
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7234.6	1242.7	8477.3
	% Lamp	26.3	4.5	30.8
Street Side	Lumens	7571.6	1289.2	8860.8
	% Lamp	27.5	4.7	32.2
Total	Lumens	14806.2	2531.9	17338.1
	% Lamp	53.8	9.2	63.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	14.1	0.1	0.1
10°-20°	85.7	0.5	0.3
20°-30°	206.6	1.2	0.8
30°-40°	402.8	2.3	1.5
40°-50°	813.5	4.7	3.0
50°-60°	1963.7	11.3	7.1
60°-70°	5249.1	30.3	19.1
70°-80°	4765.2	27.5	17.3
80°-90°	1305.3	7.5	4.7
90°-100°	473.4	2.7	1.7
100°-110°	359.6	2.1	1.3
110°-120°	311.2	1.8	1.1
120°-130°	286.4	1.7	1.0
130°-140°	264.2	1.5	1.0
140°-150°	357.4	2.1	1.3
150°-160°	334.0	1.9	1.2
160°-170°	129.9	0.7	0.5
170°-180°	21.6	0.1	0.1
0°-90°	14806.2	85.4	53.8
0°-180°	17338.1	100.0	63.0



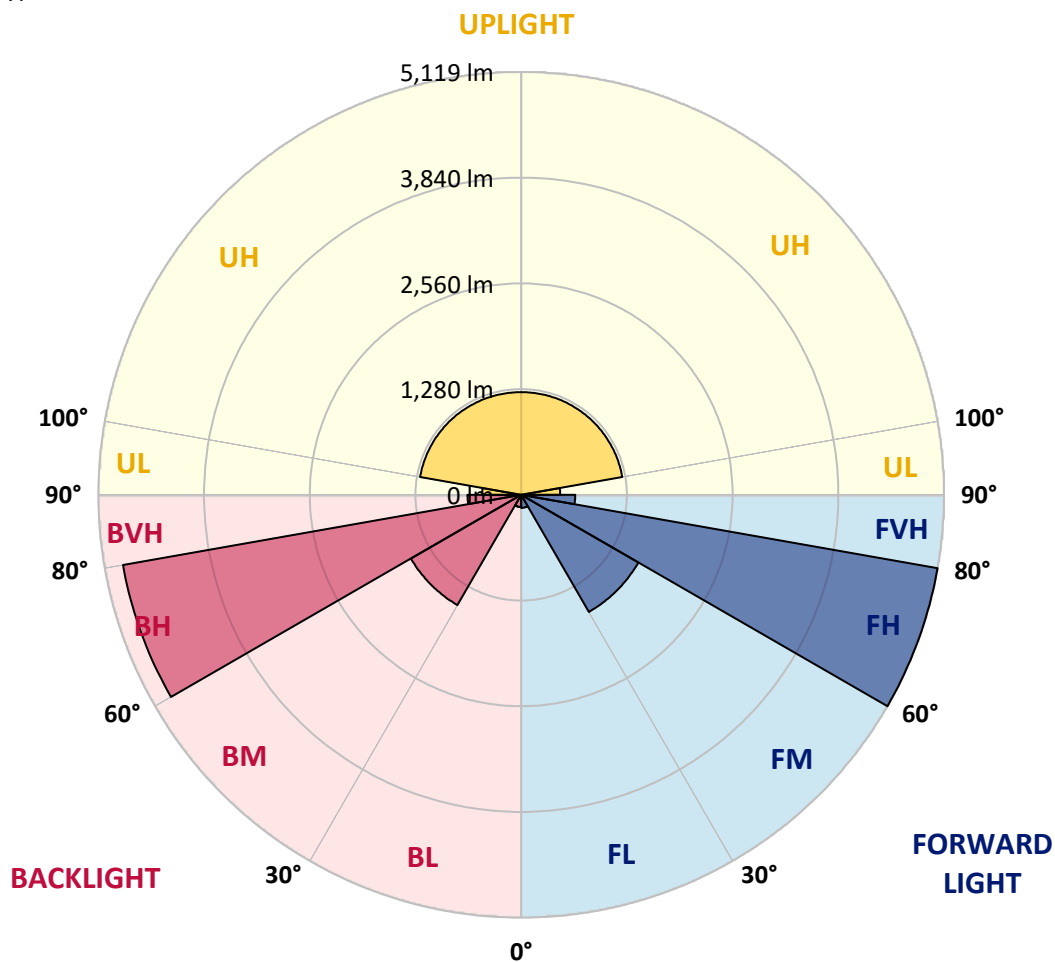
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	158.6	0.6			
FM	(30°-60°)	1638.5	6.0			
FH	(60°-80°)	5119.4	18.6			G3/7500
FVH	(80°-90°)	655.1	2.4			G4/750
BL	(0°-30°)	147.9	0.5	B1/500		
BM	(30°-60°)	1541.5	5.6	B2/2500		
BH	(60°-80°)	4895.0	17.8	B4/5000		G2/5000
BVH	(80°-90°)	650.2	2.4			G4/750
UL	(90°-100°)	473.4	1.7		U3/500	
UH	(100°-180°)	1242.7	4.5		U5	
Trapped Light		10161.9	37.0			

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°	127	127	127	127	127	127	127	127	127	127	127
2.5°	127	123	127	127	132	127	132	132	127	123	123
5°	127	132	127	136	141	141	136	132	127	123	123
7.5°	155	155	159	159	168	164	159	155	145	145	145
10°	200	195	200	200	195	195	195	186	191	186	182
12.5°	291	286	282	273	264	268	264	264	273	273	273
15°	309	309	314	318	327	323	327	318	318	305	305
17.5°	327	323	336	350	359	355	355	359	341	327	318
20°	355	359	364	377	386	382	391	373	364	350	350
22.5°	400	400	405	409	414	423	423	409	405	405	400
25°	464	459	455	455	468	468	464	450	450	459	459
27.5°	491	491	486	496	505	505	500	496	496	496	500
30°	555	555	555	564	555	550	550	546	541	536	527
32.5°	673	677	682	691	682	677	682	682	682	664	659
35°	627	618	623	641	636	636	646	646	646	632	627
37.5°	673	668	664	673	659	655	668	673	682	673	664
40°	782	773	764	768	750	755	764	777	786	786	782
42.5°	918	909	905	923	923	932	941	946	932	936	932
45°	1000	986	1014	1055	1087	1096	1087	1073	1046	1018	1009
47.5°	1127	1114	1168	1227	1277	1296	1277	1250	1200	1141	1127
50°	1282	1287	1350	1437	1532	1541	1509	1464	1368	1296	1291
52.5°	1546	1546	1627	1750	1887	1864	1846	1768	1623	1559	1550
55°	1891	1946	2023	2218	2341	2323	2318	2200	2032	1973	1946
57.5°	2318	2387	2514	2759	2905	2832	2859	2682	2478	2409	2346
60°	3173	3173	3228	3628	3728	3710	3641	3519	3232	3164	3137
62.5°	4792	4628	4601	5187	5128	5183	4996	4928	4751	4569	4619
65°	5955	5569	5542	6269	6096	6187	5978	5883	5828	5596	5742
67.5°	6237	5819	5824	6592	6369	6510	6255	6205	6128	5878	6164
70°	5874	5564	5719	6310	5969	6228	6037	5987	5824	5601	6019
72.5°	5355	5178	5278	5833	5469	5710	5610	5523	5360	5178	5514
75°	4619	4496	4442	5114	4760	4882	4828	4751	4587	4519	4705
77.5°	3773	3678	3650	4201	3864	3987	3914	3891	3751	3719	3814
80°	2628	2537	2578	2878	2628	2750	2728	2746	2673	2669	2723
82.5°	1673	1623	1609	1687	1505	1573	1582	1668	1700	1737	1755
85°	964	936	941	959	818	832	864	968	1018	1032	1059
87.5°	618	609	623	646	600	618	627	664	664	664	664
90°	509	505	523	546	532	546	550	555	541	532	527
95°	400	391	409	432	414	423	423	427	418	400	400
105°	318	318	336	364	314	318	323	368	355	346	336
115°	245	245	255	282	282	273	277	291	282	264	259
125°	355	364	382	391	386	382	396	396	373	400	455
135°	245	245	259	264	255	255	268	277	277	291	286
145°	464	464	482	496	500	505	518	518	518	555	514
155°	1155	1168	1150	1168	1123	1096	1064	973	964	1041	986
165°	264	259	268	273	277	277	273	250	241	214	214



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	264	259	268	273	277	277	273	250	241	214	214
180°	209	209	209	209	209	209	209	209	209	209	209



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	127	127	127	127	127	127	127	127	127	127
2.5°	123	127	127	127	127	123	123	123	118	109
5°	123	123	123	123	123	123	118	114	109	109
7.5°	136	145	145	145	145	141	141	141	141	136
10°	182	177	177	177	173	177	168	173	168	164
12.5°	264	259	245	245	241	232	227	241	236	236
15°	300	305	305	305	300	305	295	291	291	291
17.5°	323	332	341	341	336	341	332	323	305	309
20°	346	346	359	355	350	355	346	332	318	318
22.5°	400	386	386	391	396	391	377	373	377	382
25°	455	436	432	432	432	423	414	414	418	427
27.5°	496	477	468	464	477	464	446	455	455	455
30°	527	518	509	500	496	491	491	496	482	491
32.5°	664	650	641	623	614	618	618	627	618	618
35°	627	623	609	596	586	586	591	586	586	591
37.5°	664	650	636	618	605	609	623	614	614	618
40°	773	759	727	705	691	700	709	709	718	727
42.5°	927	905	891	859	855	855	846	850	859	864
45°	1000	1009	1014	1009	1014	991	973	955	946	936
47.5°	1132	1168	1177	1173	1187	1168	1150	1114	1073	1064
50°	1291	1332	1377	1391	1437	1405	1373	1305	1237	1227
52.5°	1559	1587	1650	1718	1750	1732	1659	1564	1491	1482
55°	1950	1973	2068	2146	2150	2178	2073	1964	1873	1864
57.5°	2369	2396	2550	2591	2600	2550	2550	2350	2291	2191
60°	3119	3132	3405	3337	3337	3278	3319	2969	3000	2864
62.5°	4528	4478	4873	4614	4682	4564	4642	4196	4205	4119
65°	5592	5464	5955	5564	5642	5546	5737	5183	5201	5255
67.5°	5946	5874	6324	5864	5960	5942	6169	5587	5587	5810
70°	5764	5778	6124	5737	5760	5724	5964	5510	5401	5664
72.5°	5292	5369	5737	5310	5328	5242	5460	5142	4960	5119
75°	4455	4519	5055	4523	4514	4551	4678	4360	4232	4255
77.5°	3641	3660	4214	3646	3614	3746	3805	3464	3455	3473
80°	2619	2632	2991	2541	2532	2637	2682	2432	2459	2473
82.5°	1714	1696	1809	1532	1523	1541	1650	1555	1596	1564
85°	1055	1023	1041	859	832	855	977	936	973	936
87.5°	659	664	686	609	591	605	659	614	605	600
90°	527	536	564	523	518	527	546	505	500	491
95°	396	414	436	409	409	414	427	405	396	391
105°	346	359	377	314	318	318	355	336	332	327
115°	264	277	291	268	264	259	273	259	245	236
125°	391	373	382	377	368	364	373	341	323	318
135°	277	259	255	241	236	232	236	227	209	209
145°	550	477	459	455	450	446	446	427	396	400
155°	1087	991	1014	1068	1082	1100	1105	1005	959	936
165°	227	259	286	314	336	346	346	332	323	318



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	227	259	277	232	195	64	36	36	36	36
180°	209	209	209	209	209	209	209	209	209	209

(END OF REPORT)