

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: H39505

Luminaire Tested: **ARC15SXX3C65XC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H39505
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC15SXX3C65XC
Description: STREETWORKS AVENUE ARC TYPE 3 CUT OFF POST TOP
WITH CAGE, COPPER FINISH DECORATIVE CHIMNEY, ACRYLIC GLOBE
AND TYPE THREE REFLECTOR INSERT
Light Source: MOGUL BASE E23.5 CLEAR HIGH PRESSURE SODIUM LAMP
LU150/U 150 WATTS
Ballast/Driver: -

Summary

Lumens per Lamp: 16000 (1 lamp)
Luminaire Lumens: 9405.5 lumens
Efficiency: 58.8%
Efficacy: 62.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
IES Classification: Type III - Short - Cutoff
BUG Rating: B3 - U2 - G3

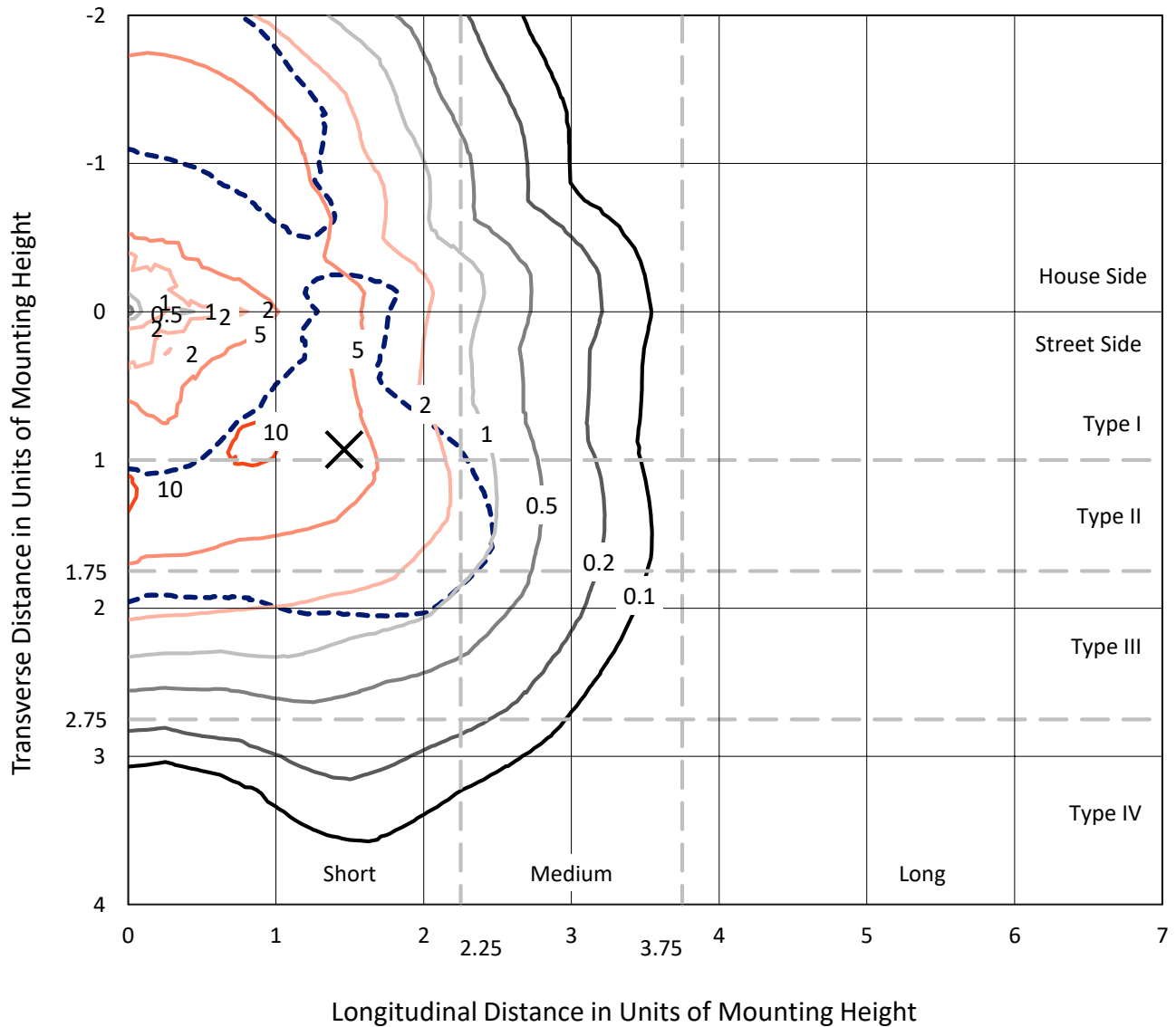
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

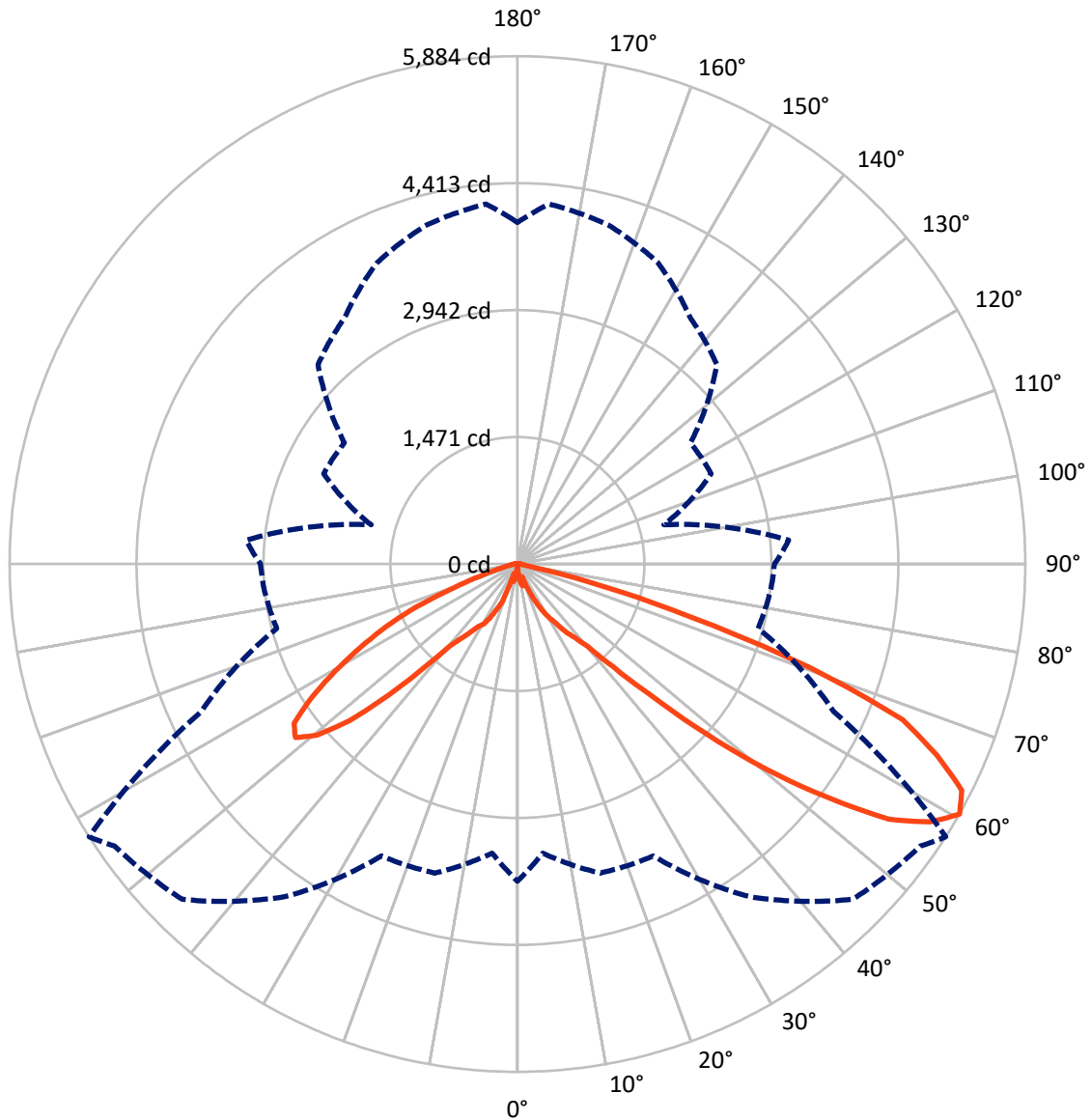
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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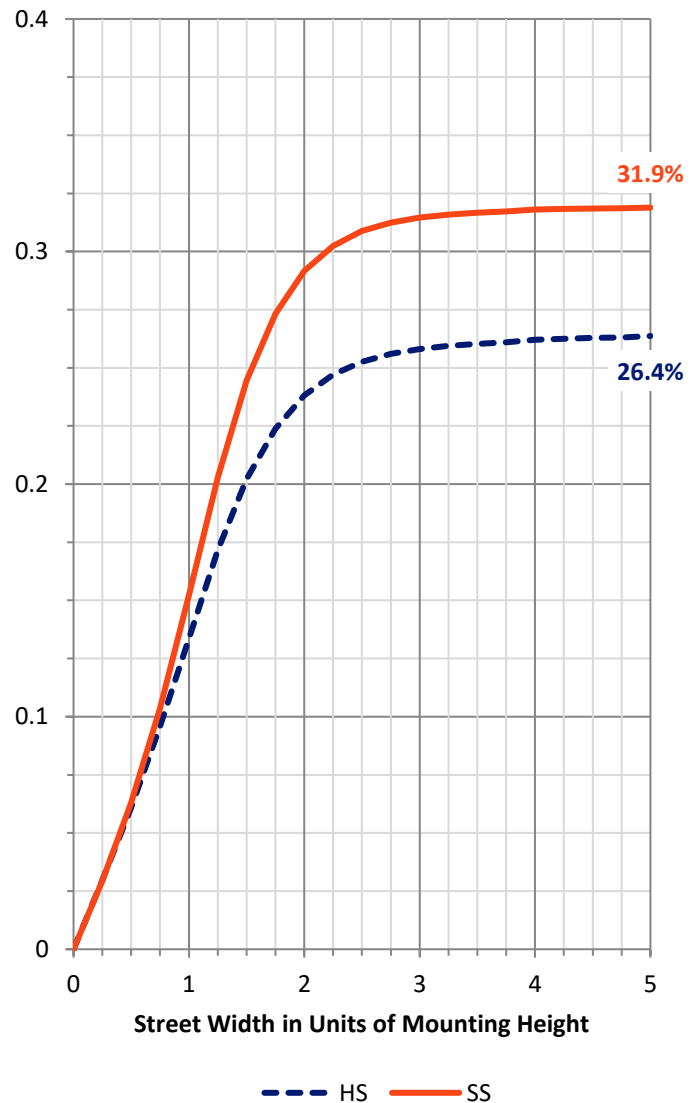
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4237.1	23.6	4260.7
	% Lamp	26.5	0.1	26.6
Street Side	Lumens	5120.3	24.5	5144.8
	% Lamp	32.0	0.2	32.2
Total	Lumens	9357.4	48.1	9405.5
	% Lamp	58.5	0.3	58.8

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	12.4	0.1	0.1
10°-20°	54.0	0.6	0.3
20°-30°	226.6	2.4	1.4
30°-40°	583.4	6.2	3.6
40°-50°	1720.7	18.3	10.8
50°-60°	3378.0	35.9	21.1
60°-70°	2688.0	28.6	16.8
70°-80°	630.7	6.7	3.9
80°-90°	63.7	0.7	0.4
90°-100°	29.1	0.3	0.2
100°-110°	15.8	0.2	0.1
110°-120°	2.1	0.0	0.0
120°-130°	0.6	0.0	0.0
130°-140°	0.3	0.0	0.0
140°-150°	0.2	0.0	0.0
150°-160°	0.1	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	9357.4	99.5	58.5
0°-180°	9405.5	100.0	58.8



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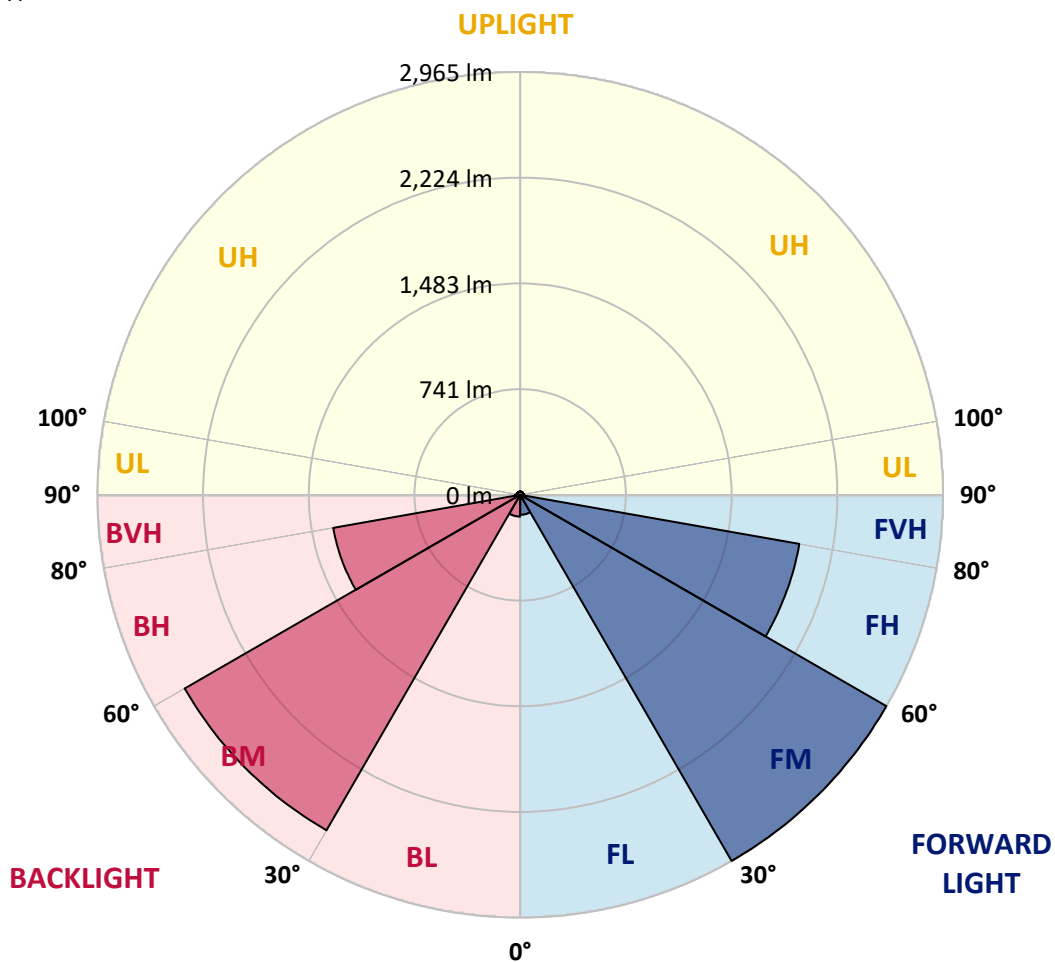
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	140.4	0.9			
FM	(30°-60°)	2965.2	18.5			
FH	(60°-80°)	1987.4	12.4			G2/5000
FVH	(80°-90°)	27.4	0.2			G1/100
BL	(0°-30°)	152.7	1.0	B1/500		
BM	(30°-60°)	2716.8	17.0	B3/5000		
BH	(60°-80°)	1331.3	8.3	B3/2500		G3/2500
BVH	(80°-90°)	36.3	0.2			G1/100
UL	(90°-100°)	29.1	0.2		U2/50	
UH	(100°-180°)	23.6	0.1		U2/50	
Trapped Light		6594.5	41.2			

BUG Rating: B3-U2-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57.5°	65°	75°	85°
0°	23	23	23	23	23	23	23	23	23	23	23
2.5°	30	29	28	25	22	19	17	17	16	15	16
5°	161	152	149	140	125	107	91	86	76	60	50
7.5°	222	227	215	217	213	194	191	181	160	151	150
10°	251	244	264	273	258	254	233	231	237	232	225
12.5°	287	301	309	308	318	292	270	260	252	264	237
15°	270	272	275	274	261	249	230	225	207	201	186
17.5°	229	218	216	212	220	198	178	173	155	132	142
20°	198	200	197	191	189	175	158	154	139	118	107
22.5°	333	340	305	339	362	362	347	343	344	286	117
25°	495	500	441	437	468	451	460	466	466	418	149
27.5°	676	671	558	562	593	579	603	604	622	579	213
30°	771	776	671	675	712	706	738	717	731	692	318
32.5°	867	872	755	763	851	850	835	815	770	783	415
35°	998	959	884	867	978	1005	953	965	875	918	520
37.5°	1093	1079	981	954	1080	1098	1075	1081	1097	1021	644
40°	1241	1256	1155	1132	1271	1329	1259	1255	1254	1168	787
42.5°	1712	1658	1509	1502	1735	1777	1628	1631	1571	1504	1105
45°	2368	2206	2041	2046	2301	2443	2124	2169	2093	1868	1677
47.5°	3191	2878	2715	2719	3030	3292	2773	2932	2728	2304	2416
50°	4100	3501	3463	3451	3791	4181	3509	3741	3327	2754	3056
52.5°	4722	3834	3970	3944	4354	4837	4235	4486	3702	2989	3406
55°	4880	3907	4164	4163	4761	5146	4963	5219	3932	3176	3589
57.5°	4430	3745	4089	4040	4849	5357	5293	5638	4100	3126	3400
60°	3676	3361	3707	3731	4707	5494	5698	5884	4039	2886	2954
62.5°	3074	2882	3200	3425	4404	5621	5837	5778	3947	2504	2449
65°	2186	2061	2321	2922	3802	5191	5517	5336	3682	2124	1939
67.5°	1370	1308	1566	2467	3065	4575	4787	4812	3352	1778	1437
70°	610	596	887	1680	2111	3250	3533	3591	2488	1286	1037
72.5°	256	229	465	1140	1479	2122	2272	2093	1539	771	678
75°	130	139	318	833	866	1122	1032	993	793	399	347
77.5°	82	90	174	303	207	229	200	205	244	140	129
80°	59	60	71	77	79	84	86	89	102	79	76
82.5°	52	53	58	57	60	62	61	62	66	59	56
85°	47	47	52	50	52	51	48	49	48	42	43
87.5°	42	42	46	41	40	41	40	40	38	29	24
90°	39	39	39	36	35	35	33	33	31	25	20
92.5°	39	38	38	34	33	32	30	30	30	21	18
95°	38	37	38	33	31	29	28	28	28	19	15
97.5°	35	35	36	30	28	26	25	25	24	17	14
100°	30	30	32	26	24	22	21	20	20	15	12
102.5°	27	26	27	23	20	19	17	17	17	13	10
105°	22	22	22	19	17	16	15	15	14	11	8
107.5°	17	16	16	13	13	11	10	9	9	8	7
110°	7	7	6	5	3	2	2	2	2	3	3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	57.5°	65°	75°	85°
112.5°	5	5	4	3	2	1	0	0	0	0	2
115°	4	4	3	2	1	0	0	0	0	0	1
117.5°	3	3	2	2	1	0	0	0	0	0	0
120°	3	2	2	1	1	0	0	0	0	0	0
122.5°	2	2	2	1	0	0	0	0	0	0	0
125°	2	2	1	1	0	0	0	0	0	0	0
127.5°	1	1	1	1	0	0	0	0	0	0	0
130°	1	1	1	1	0	0	0	0	0	0	0
132.5°	1	1	1	1	0	0	0	0	0	0	0
135°	1	1	1	1	0	0	0	0	0	0	0
137.5°	1	1	1	1	0	0	0	0	0	0	0
140°	1	1	1	1	0	0	0	0	0	0	0
142.5°	1	0	1	0	0	0	0	0	0	0	0
145°	1	1	1	1	0	0	0	0	0	0	0
147.5°	1	1	1	1	0	0	0	0	0	0	0
150°	1	1	1	1	0	0	0	0	0	0	0
152.5°	1	1	1	1	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	23	23	23	23	23	23	23	23	23	23	23
2.5°	17	17	18	17	15	14	13	13	12	12	12
5°	45	40	45	44	34	31	26	20	15	12	11
7.5°	148	145	143	124	125	136	144	139	127	123	118
10°	227	216	193	170	171	171	197	219	241	241	240
12.5°	232	226	197	208	206	199	199	204	207	212	216
15°	186	174	161	175	193	182	170	168	153	167	181
17.5°	131	130	122	134	140	141	130	121	109	113	124
20°	110	106	111	109	115	119	113	108	104	93	96
22.5°	115	209	454	443	483	490	478	486	493	497	445
25°	133	316	555	535	587	595	580	604	627	613	582
27.5°	160	395	664	648	714	715	737	743	749	737	749
30°	188	479	734	756	815	788	804	823	810	795	836
32.5°	215	537	815	824	862	876	892	939	888	893	910
35°	257	609	902	918	964	1007	1017	1019	997	994	1015
37.5°	318	684	1025	1050	1081	1129	1137	1143	1154	1119	1171
40°	443	853	1190	1196	1238	1317	1346	1394	1406	1391	1413
42.5°	767	1240	1503	1516	1625	1762	1794	1854	1849	1836	1822
45°	1348	1746	1867	1961	2181	2304	2434	2417	2443	2457	2365
47.5°	2053	2402	2137	2416	2742	2843	3072	3027	3137	3107	2896
50°	2590	2974	2373	2801	3137	3312	3566	3513	3683	3610	3342
52.5°	2997	3345	2466	3110	3316	3688	3880	3854	4044	3985	3704
55°	3293	3516	2348	3172	3182	3859	4027	4155	4300	4359	3979
57.5°	3302	3480	2061	2908	2828	3641	3830	4122	4339	4432	4098
60°	2977	3156	1755	2476	2447	3267	3487	3851	4067	4187	3957
62.5°	2552	2774	1444	2036	2068	2826	3002	3418	3625	3747	3607
65°	2118	2326	1174	1639	1703	2292	2399	2788	3025	3119	3096
67.5°	1665	1855	893	1215	1289	1753	1757	2094	2312	2390	2428
70°	1181	1221	555	755	785	1102	1091	1332	1506	1544	1551
72.5°	786	767	305	430	464	588	547	709	832	860	867
75°	367	304	183	255	271	337	330	413	501	547	540
77.5°	148	131	103	150	160	191	207	265	316	371	366
80°	88	75	64	92	104	116	135	164	199	239	231
82.5°	56	50	48	66	77	75	90	100	128	147	145
85°	42	41	39	55	65	57	70	71	86	96	94
87.5°	21	22	29	36	39	35	36	37	37	39	39
90°	18	20	27	34	34	31	30	31	31	31	31
92.5°	14	17	24	30	29	27	27	27	27	27	27
95°	13	17	23	29	28	26	25	27	26	26	27
97.5°	12	16	22	28	26	25	24	25	24	25	25
100°	11	15	20	25	24	22	21	21	21	22	22
102.5°	10	13	18	22	21	19	18	17	18	18	18
105°	8	11	16	19	18	16	14	15	15	15	15
107.5°	6	8	12	15	14	12	11	12	12	12	12
110°	4	5	7	8	7	7	6	7	6	6	6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	2	4	5	5	4	3	3	2	2	1	1
115°	2	3	4	4	3	2	2	1	1	0	0
117.5°	1	2	4	4	2	1	1	1	0	0	0
120°	0	1	3	3	2	1	0	0	0	0	0
122.5°	0	1	3	3	1	1	0	0	0	0	0
125°	0	1	2	2	1	1	0	0	0	0	0
127.5°	0	1	2	2	1	1	0	0	0	0	0
130°	0	1	2	1	0	0	0	0	0	0	0
132.5°	0	0	2	1	0	0	0	0	0	0	0
135°	0	0	2	1	0	0	0	0	0	0	0
137.5°	0	1	2	1	0	0	0	0	0	0	0
140°	0	1	2	1	0	0	0	0	0	0	0
142.5°	0	1	2	1	0	0	0	0	0	0	0
145°	0	1	2	1	0	0	0	0	0	0	0
147.5°	0	1	2	1	0	0	0	0	0	0	0
150°	0	1	2	1	0	0	0	0	0	0	0
152.5°	0	1	2	1	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)