

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: 768945

Luminaire Tested: **ARC25SXX5C16X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768945
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC25SXX5C16X
Description: CUTOFF GENERATIONS POST TOP TYPE 5 W/CAGE
Light Source: 250 WATT HPS CLEAR E-18
Ballast/Driver: -

Summary

Lumens per Lamp: 27500 (1 lamp)
Luminaire Lumens: 14663.2 lumens
Efficiency: 53.3%
Efficacy: 58.7 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Cutoff
BUG Rating: B4 - U3 - G2

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

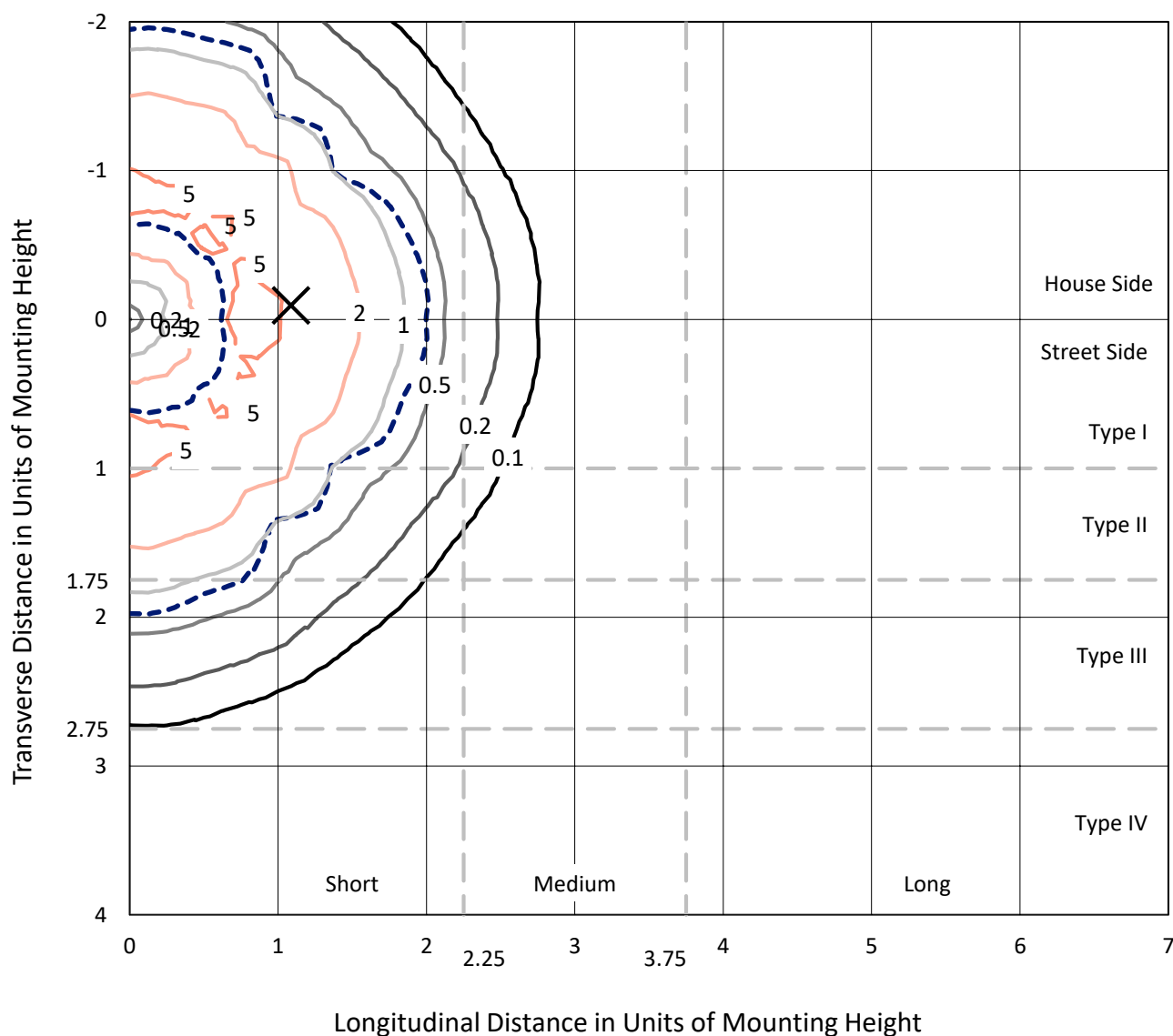


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

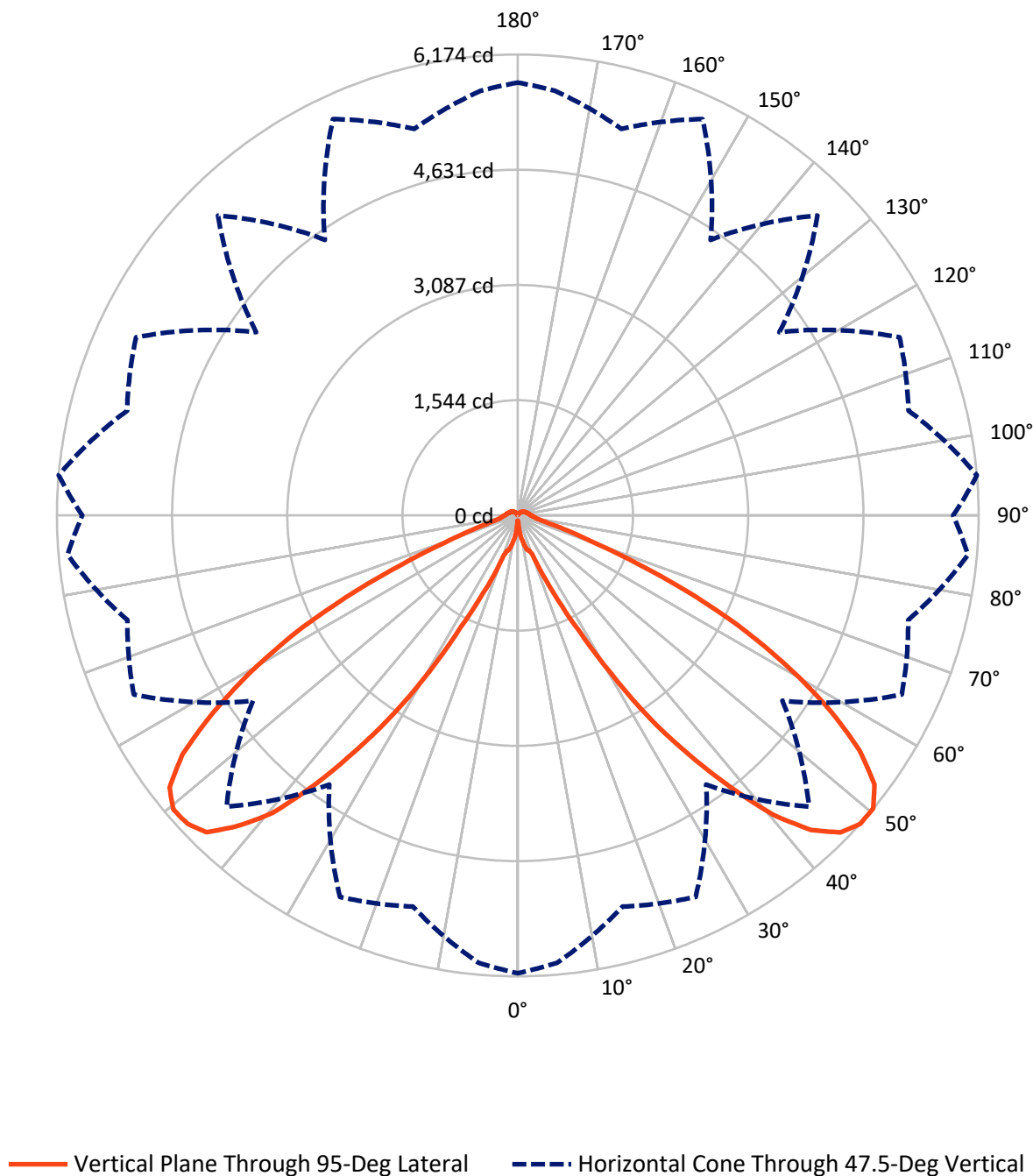


Based on 20 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - Cutoff

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Luminous Intensity Polar Plot



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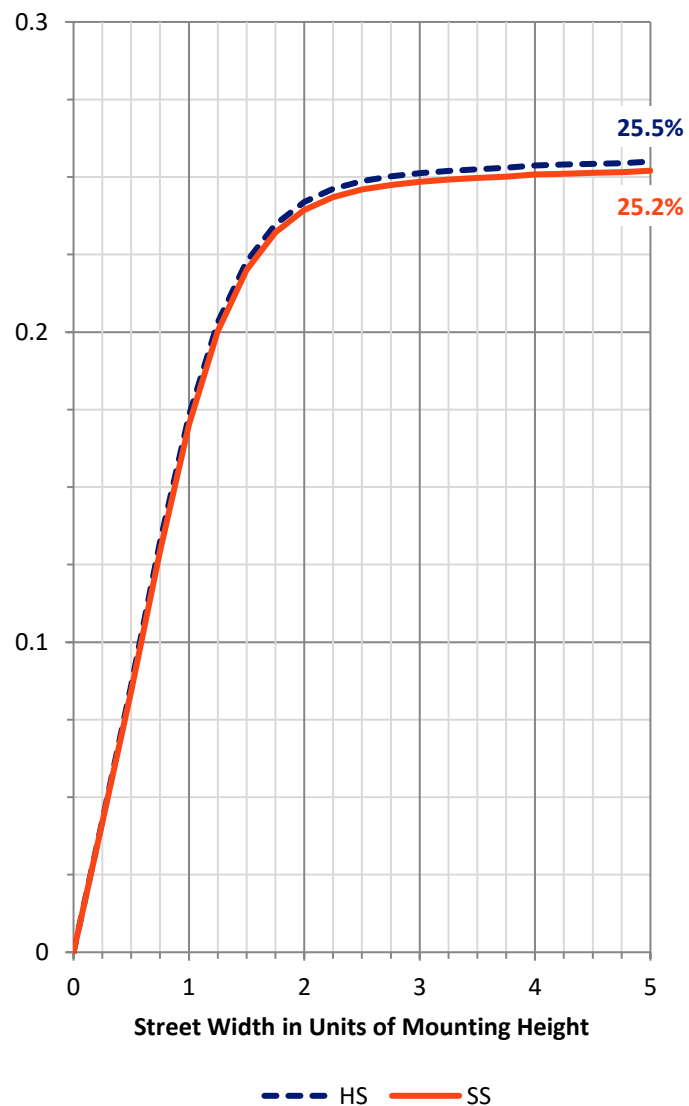
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7090.0	286.0	7376.0
	% Lamp	25.8	1.0	26.8
Street Side	Lumens	6999.7	287.6	7287.2
	% Lamp	25.5	1.0	26.5
Total	Lumens	14089.6	573.6	14663.2
	% Lamp	51.2	2.1	53.3

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	22.5	0.2	0.1
10°-20°	134.0	0.9	0.5
20°-30°	602.1	4.1	2.2
30°-40°	2210.3	15.1	8.0
40°-50°	4023.9	27.4	14.6
50°-60°	4224.5	28.8	15.4
60°-70°	2147.9	14.6	7.8
70°-80°	489.4	3.3	1.8
80°-90°	235.0	1.6	0.9
90°-100°	176.2	1.2	0.6
100°-110°	142.0	1.0	0.5
110°-120°	111.1	0.8	0.4
120°-130°	79.7	0.5	0.3
130°-140°	45.9	0.3	0.2
140°-150°	17.3	0.1	0.1
150°-160°	3.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	14089.6	96.1	51.2
0°-180°	14663.2	100.0	53.3

Coefficient of Utilization



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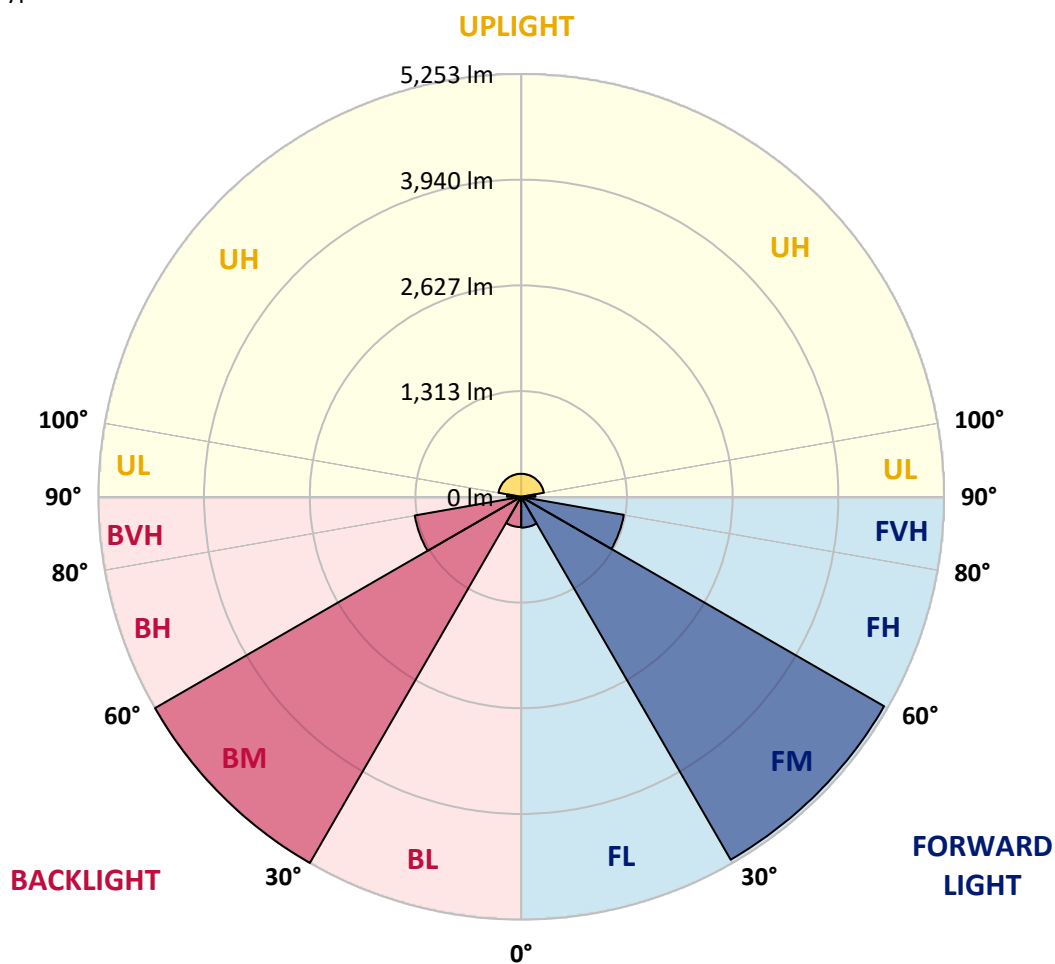
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	382.6	1.4			
FM	(30°-60°)	5205.5	18.9			
FH	(60°-80°)	1294.5	4.7			G1/1800
FVH	(80°-90°)	117.1	0.4			G2/225
BL	(0°-30°)	376.0	1.4	B1/500		
BM	(30°-60°)	5253.2	19.1	B4/8500		
BH	(60°-80°)	1342.9	4.9	B3/2500		G1/1800
BVH	(80°-90°)	117.9	0.4			G2/225
UL	(90°-100°)	176.2	0.6		U3/500	
UH	(100°-180°)	286.0	1.0		U3/500	
Trapped Light		12836.8	46.7			

BUG Rating: B4-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	75	75	75	75	75	75	75	75	75	75	75
2.5°	75	75	70	75	75	65	79	75	75	75	75
5°	177	172	186	186	182	182	177	168	163	163	154
7.5°	289	289	298	298	289	284	294	294	280	284	284
10°	363	349	359	377	377	377	382	377	354	340	340
12.5°	401	415	429	452	452	461	461	457	429	415	433
15°	466	457	466	485	499	513	494	475	438	475	475
17.5°	494	489	485	499	522	541	522	499	485	499	508
20°	596	573	587	610	601	582	606	606	568	568	601
22.5°	1109	927	1067	1072	969	690	867	1053	1030	885	1058
25°	1277	1258	1188	1212	1072	829	979	1160	1179	1207	1323
27.5°	1845	1738	1631	1603	1454	1580	1412	1538	1463	1678	1789
30°	2554	2465	2269	2195	1971	2404	1929	2041	2064	2400	2535
32.5°	3374	3234	2889	2926	2544	3006	2493	2596	2810	3122	3280
35°	4026	3900	3499	3518	3080	3555	2982	3341	3341	3807	3970
37.5°	4706	4576	4110	4091	3579	4129	3462	4007	3919	4515	4627
40°	5256	5238	4660	4650	3975	4683	3868	4632	4520	5163	5238
42.5°	5853	5657	5168	5130	4273	5102	4147	5088	4958	5596	5485
45°	6095	5946	5363	5536	4408	5396	4282	5499	5261	5951	5764
47.5°	6132	6016	5424	5638	4399	5517	4329	5676	5415	6053	5834
50°	6030	6044	5471	5666	4301	5559	4282	5736	5503	6067	5890
52.5°	5759	5932	5317	5522	4105	5433	4115	5587	5387	5918	5825
55°	5284	5494	4944	5088	3798	4986	3826	5149	4986	5517	5480
57.5°	4641	4837	4371	4427	3299	4161	3355	4464	4385	4883	4944
60°	4007	4110	3700	3770	2731	3336	2801	3719	3751	4175	4194
62.5°	3271	3322	3010	3029	2190	2479	2213	2982	3047	3420	3369
65°	2423	2437	2218	2195	1664	1682	1673	2176	2255	2554	2479
67.5°	1603	1598	1426	1421	1212	1216	1202	1403	1477	1692	1645
70°	932	965	871	848	792	801	764	862	904	1039	993
72.5°	596	615	582	573	503	517	503	578	615	680	652
75°	391	401	382	382	359	377	368	387	405	429	424
77.5°	298	308	298	298	284	308	298	308	317	326	322
80°	242	252	247	256	252	270	252	261	266	256	256
82.5°	214	214	228	228	233	238	224	233	238	233	228
85°	196	205	205	214	210	210	210	214	214	214	214
87.5°	177	196	200	205	200	196	200	210	205	196	196
90°	168	172	177	182	182	177	182	186	186	177	177
95°	149	154	158	163	163	158	163	163	163	158	154
105°	130	126	135	135	130	130	135	135	135	130	130
115°	93	112	112	112	116	116	116	112	112	107	107
125°	93	93	93	89	93	89	89	93	93	98	93
135°	65	65	61	56	51	56	56	61	65	65	70
145°	28	33	28	23	23	19	19	28	33	33	37
155°	0	5	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	75	75	75	75	75	75	75	75	75	75
2.5°	70	75	75	75	70	75	70	70	65	65
5°	154	158	154	154	149	149	140	140	140	130
7.5°	284	280	284	284	270	266	270	270	266	261
10°	340	340	349	363	354	359	345	331	331	336
12.5°	419	424	438	443	443	433	438	419	401	401
15°	480	471	447	447	466	457	457	443	438	438
17.5°	494	475	461	466	475	475	457	457	457	466
20°	555	573	582	582	536	527	573	555	545	568
22.5°	867	1025	1025	899	629	806	1020	1030	829	960
25°	1258	1188	1216	1025	825	1030	1193	1193	1156	1165
27.5°	1757	1538	1542	1440	1584	1566	1542	1570	1617	1631
30°	2446	2116	2125	2018	2526	2218	2139	2167	2288	2404
32.5°	3225	2833	2731	2619	3234	2828	2870	2819	2982	3113
35°	3910	3472	3462	3145	3849	3360	3532	3448	3616	3709
37.5°	4609	3993	4147	3625	4436	3802	4157	4007	4222	4250
40°	5275	4562	4748	4073	5000	4147	4753	4618	4874	4911
42.5°	5759	4953	5172	4259	5359	4403	5214	5093	5303	5405
45°	6058	5252	5517	4315	5643	4492	5708	5289	5582	5750
47.5°	6174	5419	5643	4278	5680	4506	5857	5359	5708	5797
50°	6170	5522	5676	4166	5648	4431	5923	5363	5750	5648
52.5°	5983	5475	5522	3993	5508	4231	5829	5303	5648	5424
55°	5554	5130	5079	3746	5037	3900	5405	4958	5266	5014
57.5°	4939	4595	4417	3355	4264	3397	4781	4441	4669	4399
60°	4222	3965	3709	2856	3430	2833	4040	3821	3961	3793
62.5°	3453	3243	2978	2311	2563	2297	3308	3173	3234	3150
65°	2609	2418	2209	1785	1724	1752	2423	2376	2423	2404
67.5°	1724	1594	1421	1281	1249	1277	1561	1561	1636	1640
70°	1048	983	853	801	834	843	913	960	1025	1007
72.5°	694	643	578	517	536	527	620	638	657	643
75°	429	415	387	368	387	368	387	405	415	419
77.5°	322	322	303	294	312	294	308	312	317	298
80°	261	261	256	252	266	252	261	261	261	261
82.5°	233	238	228	228	238	233	238	233	228	224
85°	210	214	214	205	214	210	219	219	205	205
87.5°	196	205	205	200	200	200	205	205	186	196
90°	172	186	182	186	177	177	186	177	177	177
95°	158	163	163	158	158	158	158	163	158	158
105°	126	135	140	135	130	135	135	130	130	130
115°	107	107	107	112	116	116	116	107	107	112
125°	89	89	93	89	93	93	93	93	93	93
135°	65	65	56	56	56	56	61	61	65	75
145°	28	28	23	19	9	19	23	28	28	28
155°	5	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)