

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: H39506

Luminaire Tested: **ACN10SXX5CXXXC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H39506
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN10SXX5CXXXC
Description: STREETWORKS CLASSIC ACN TYPE 5 CUT OFF POST TOP
WITH COPPER FINISH DECORATIVE CHIMNEY ACRYLIC GLOBE
Light Source: MOGUL BASE E23.5 CLEAR HIGH PRESSURE SODIUM LAMP
LU100/U 100 WATTS
Ballast/Driver: -

Summary

Lumens per Lamp: 9500 (1 lamp)
Luminaire Lumens: 6695.1 lumens
Efficiency: 70.5%
Efficacy: 67.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
IES Classification: Type V - Short - Cutoff
BUG Rating: B3 - U2 - G1

Input Watts (W): 100
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



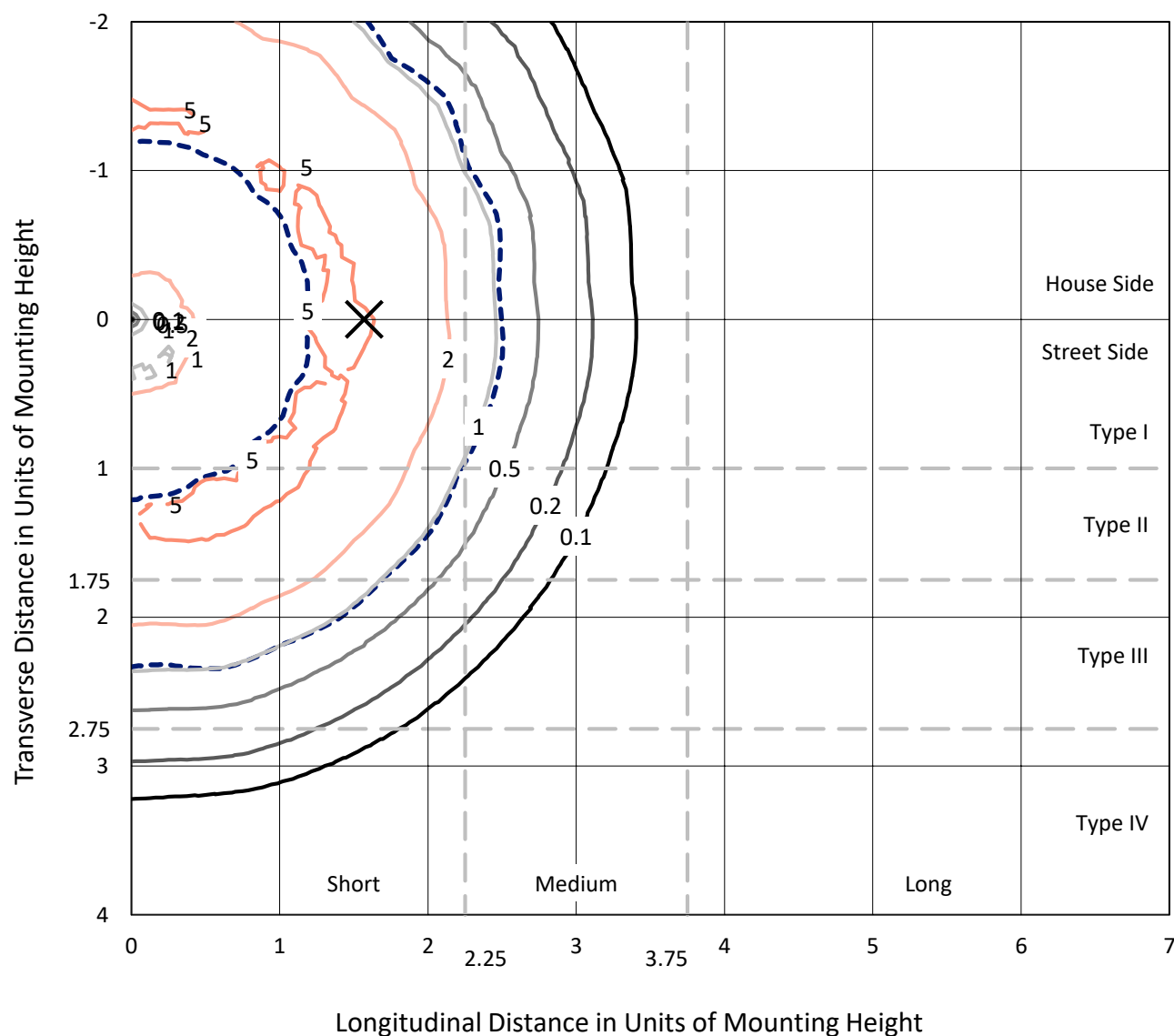
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

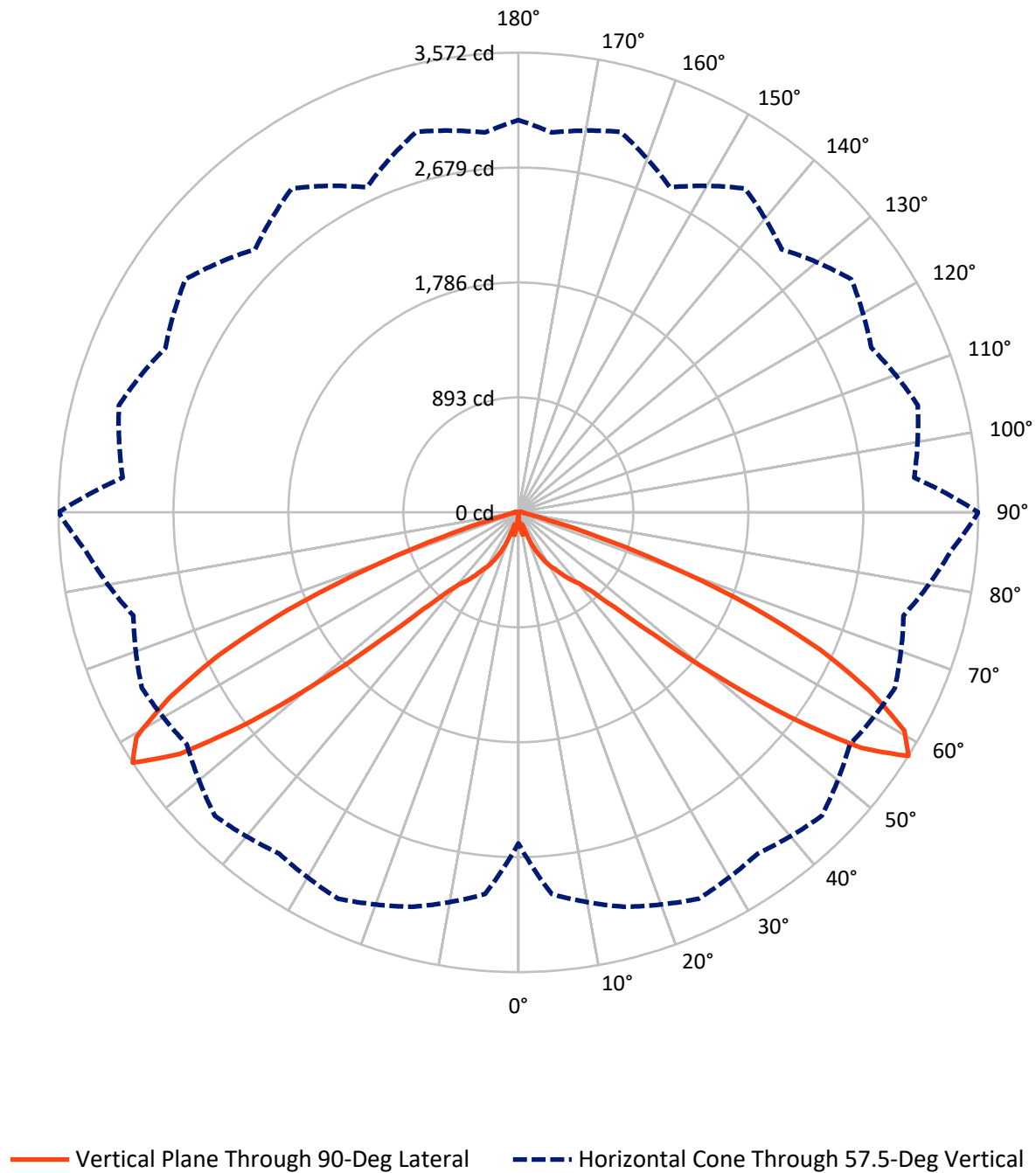


Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - Cutoff

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Luminous Intensity Polar Plot



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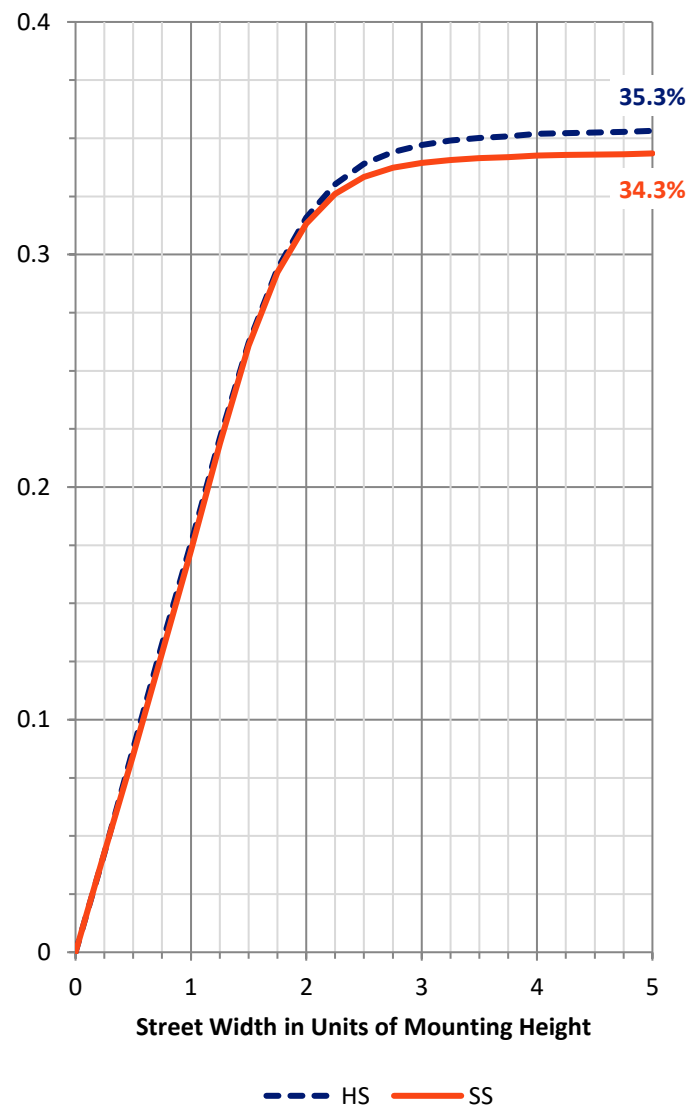
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3362.4	28.3	3390.7
	% Lamp	35.4	0.3	35.7
Street Side	Lumens	3275.3	29.1	3304.4
	% Lamp	34.5	0.3	34.8
Total	Lumens	6637.7	57.4	6695.1
	% Lamp	69.9	0.6	70.5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	9.9	0.1	0.1
10°-20°	42.7	0.6	0.4
20°-30°	157.4	2.4	1.7
30°-40°	367.8	5.5	3.9
40°-50°	818.2	12.2	8.6
50°-60°	2400.0	35.8	25.3
60°-70°	2390.1	35.7	25.2
70°-80°	407.0	6.1	4.3
80°-90°	44.7	0.7	0.5
90°-100°	26.7	0.4	0.3
100°-110°	16.4	0.2	0.2
110°-120°	7.3	0.1	0.1
120°-130°	3.6	0.1	0.0
130°-140°	2.0	0.0	0.0
140°-150°	1.0	0.0	0.0
150°-160°	0.3	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	6637.7	99.1	69.9
0°-180°	6695.1	100.0	70.5

Coefficient of Utilization



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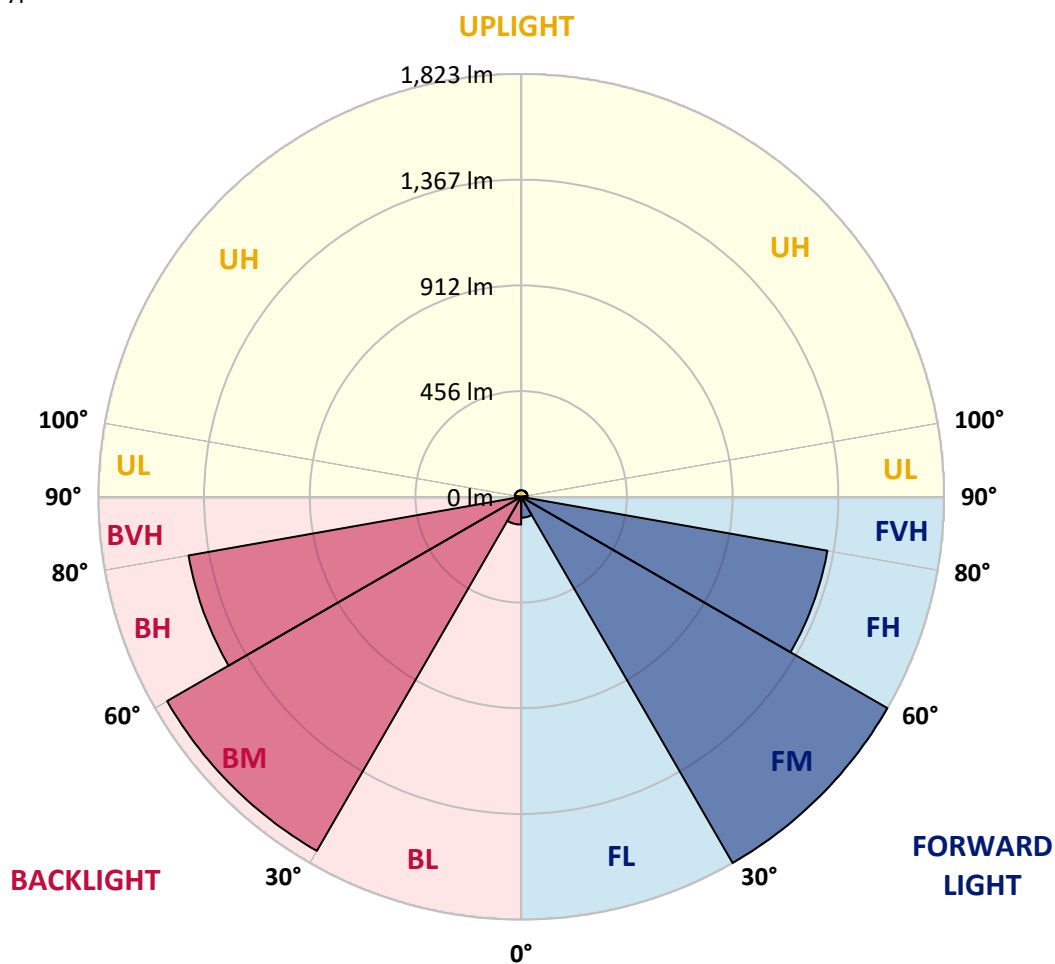
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	90.3	1.0			
FM	(30°-60°)	1823.2	19.2			
FH	(60°-80°)	1340.7	14.1			G1/1800
FVH	(80°-90°)	21.1	0.2			G1/100
BL	(0°-30°)	119.7	1.3	B1/500		
BM	(30°-60°)	1762.7	18.6	B2/2500		
BH	(60°-80°)	1456.4	15.3	B3/2500		G1/1800
BVH	(80°-90°)	23.6	0.2			G1/100
UL	(90°-100°)	26.7	0.3		U2/50	
UH	(100°-180°)	28.3	0.3		U2/50	
Trapped Light		2804.9	29.5			

BUG Rating: B3-U2-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5	5	5	5	5	5	5	5	5	5	5
2.5°	5	5	5	5	5	5	5	6	6	6	6
5°	54	51	49	50	49	48	50	51	52	53	52
7.5°	134	135	133	135	130	128	132	133	132	130	129
10°	199	203	201	193	189	189	183	184	186	180	177
12.5°	186	183	180	182	178	177	176	177	173	175	175
15°	144	143	139	140	142	144	137	139	137	136	135
17.5°	108	107	104	107	104	103	102	98	100	97	98
20°	86	88	89	93	91	95	104	126	137	156	161
22.5°	100	100	104	108	129	151	185	217	242	260	280
25°	193	188	196	196	223	260	292	310	341	357	348
27.5°	330	330	333	318	327	369	407	442	442	437	419
30°	448	443	436	436	424	464	487	505	501	495	482
32.5°	516	512	499	474	473	522	533	556	551	547	526
35°	568	586	556	557	519	579	584	616	597	600	597
37.5°	588	617	606	560	551	623	638	658	674	662	666
40°	637	687	676	625	637	678	714	773	743	702	726
42.5°	801	802	787	764	780	791	828	856	830	775	840
45°	901	927	911	936	932	967	980	1027	985	957	1057
47.5°	1167	1173	1146	1281	1146	1290	1209	1351	1191	1259	1422
50°	1706	1730	1679	1958	1593	1893	1601	1856	1559	1752	1989
52.5°	2142	2354	2271	2644	2213	2543	2168	2427	2073	2358	2643
55°	2403	2809	2817	3120	2826	3109	2735	2955	2667	2935	3231
57.5°	2572	2977	3173	3312	3238	3334	3143	3227	3097	3376	3572
60°	2622	2829	3216	3179	3318	3251	3241	3146	3225	3471	3444
62.5°	2562	2572	2988	2867	3064	2947	3035	2853	3048	3225	3071
65°	2259	2167	2551	2413	2595	2482	2613	2429	2616	2717	2579
67.5°	1570	1552	1801	1754	1862	1811	1917	1818	1943	2017	1957
70°	873	877	1016	1006	1030	1074	1118	1105	1163	1245	1239
72.5°	400	393	447	457	475	482	502	526	554	620	616
75°	169	163	177	182	188	193	200	204	218	238	238
77.5°	94	92	96	101	103	104	103	105	111	120	119
80°	57	56	58	60	62	61	61	62	67	72	72
82.5°	41	41	42	43	43	44	44	44	46	48	48
85°	34	34	35	37	37	37	39	38	38	40	39
87.5°	28	27	28	29	28	28	29	29	31	33	31
90°	26	27	27	28	27	27	27	27	28	28	27
92.5°	27	27	27	28	27	26	27	26	27	26	26
95°	26	27	27	28	27	26	27	26	27	26	25
97.5°	24	24	25	25	24	24	24	24	25	24	23
100°	20	21	21	21	20	21	21	21	23	20	20
102.5°	17	18	18	19	18	18	18	18	19	17	16
105°	15	15	15	16	15	15	16	16	18	15	15
107.5°	14	14	15	15	14	14	15	15	16	13	13
110°	9	10	10	10	10	10	10	11	14	11	11



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	8	8	8	8	8	8	8	8	8	8	8
115°	7	7	7	7	7	7	7	7	7	7	7
117.5°	6	6	6	6	6	6	6	6	6	6	6
120°	5	5	5	5	5	5	5	5	5	5	5
122.5°	4	5	4	4	4	4	4	4	5	4	4
125°	4	4	4	4	4	4	4	4	4	4	4
127.5°	3	3	3	3	3	3	3	3	4	4	3
130°	3	3	3	3	3	3	3	3	3	3	3
132.5°	2	2	2	2	2	2	2	3	3	3	3
135°	2	2	2	2	2	2	2	2	3	2	2
137.5°	2	2	2	2	2	2	2	2	2	2	2
140°	2	2	1	2	2	2	1	2	2	2	2
142.5°	1	1	1	1	1	1	1	1	2	2	2
145°	1	1	1	1	1	1	1	1	2	2	2
147.5°	1	1	1	1	1	1	1	1	1	1	1
150°	1	1	1	1	1	1	1	1	1	1	1
152.5°	1	1	1	1	1	1	1	1	1	1	1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5	5	5	5	5	5	5	5	5	5
2.5°	6	6	6	6	6	6	6	6	6	6
5°	53	51	51	49	46	50	51	54	50	52
7.5°	130	126	129	125	125	126	123	127	127	129
10°	178	177	181	182	191	189	201	210	215	218
12.5°	170	171	174	179	185	199	199	204	202	198
15°	138	137	135	139	141	149	155	160	158	158
17.5°	96	100	102	104	106	107	111	115	118	129
20°	185	210	230	254	259	266	269	302	316	325
22.5°	299	322	328	347	345	360	329	351	385	377
25°	381	375	398	414	390	390	363	410	422	399
27.5°	448	450	440	460	450	424	408	449	492	473
30°	507	515	515	519	507	482	456	486	528	499
32.5°	580	561	547	560	550	524	495	537	582	556
35°	630	620	611	615	588	564	511	576	611	584
37.5°	682	679	652	641	618	600	534	605	637	623
40°	712	723	732	722	719	655	598	663	709	691
42.5°	821	839	861	800	805	735	676	713	779	761
45°	1006	980	1055	960	1004	912	861	903	963	971
47.5°	1297	1173	1319	1140	1321	1124	1138	1137	1206	1216
50°	1738	1591	1820	1539	1804	1539	1682	1589	1713	1701
52.5°	2252	2153	2322	2131	2282	2127	2215	2222	2261	2320
55°	2769	2700	2762	2680	2670	2607	2558	2693	2661	2745
57.5°	3086	3212	3025	3157	2891	3071	2786	3061	2962	3048
60°	3105	3415	3014	3418	2897	3375	2797	3189	3092	3149
62.5°	2933	3255	2845	3305	2754	3265	2670	3019	2977	2992
65°	2547	2840	2505	2887	2472	2855	2391	2665	2703	2643
67.5°	1935	2169	1929	2246	1917	2238	1891	2115	2138	2067
70°	1162	1344	1194	1398	1206	1392	1196	1326	1329	1331
72.5°	579	680	630	703	634	723	632	683	696	690
75°	237	268	253	287	264	293	268	282	281	274
77.5°	121	127	123	135	133	141	139	138	136	131
80°	74	77	75	81	81	84	83	79	77	75
82.5°	48	51	51	51	51	54	52	50	47	48
85°	38	39	40	39	38	41	38	37	36	36
87.5°	30	32	34	32	30	34	32	29	27	27
90°	26	28	31	27	26	28	27	25	23	23
92.5°	25	25	27	25	25	26	25	23	22	22
95°	24	24	27	24	24	25	25	22	21	21
97.5°	22	23	26	22	22	23	24	20	18	18
100°	19	19	22	18	18	20	22	17	16	16
102.5°	16	15	20	15	15	16	18	15	13	13
105°	14	14	17	14	14	14	17	13	12	12
107.5°	13	13	17	13	13	14	17	13	11	11
110°	10	11	16	11	11	12	15	11	10	10



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	8	8	11	8	8	9	10	8	8	8
115°	7	7	7	7	7	7	7	7	7	7
117.5°	6	6	6	6	6	6	6	6	6	6
120°	5	5	5	5	5	5	5	5	5	5
122.5°	4	4	4	4	5	5	5	5	4	5
125°	4	4	4	4	4	4	4	4	4	4
127.5°	4	3	4	4	4	4	4	4	4	4
130°	3	3	3	3	4	4	4	4	4	4
132.5°	3	3	3	3	3	3	3	3	3	3
135°	3	3	3	3	3	3	3	3	3	3
137.5°	2	2	2	3	3	3	3	3	3	3
140°	2	2	2	2	2	3	3	3	3	3
142.5°	2	2	2	2	2	2	2	3	3	2
145°	2	2	2	2	2	2	2	2	2	2
147.5°	2	2	2	2	2	2	2	2	2	2
150°	1	2	2	2	2	2	2	2	2	2
152.5°	1	1	2	2	2	2	2	2	2	2
155°	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)