

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: H39498

Luminaire Tested: **ARC10SXX3C65XC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H39498
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC10SXX3C65XC
Description: STREETWORKS AVENUE 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
LU100/U 100 WATTS
Ballast/Driver: -

Summary

Lumens per Lamp: 9500 (1 lamp)
Luminaire Lumens: 5646.8 lumens
Efficiency: 59.4%
Efficacy: 56.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
IES Classification: Type III - Short - Cutoff
BUG Rating: B2 - U2 - G2

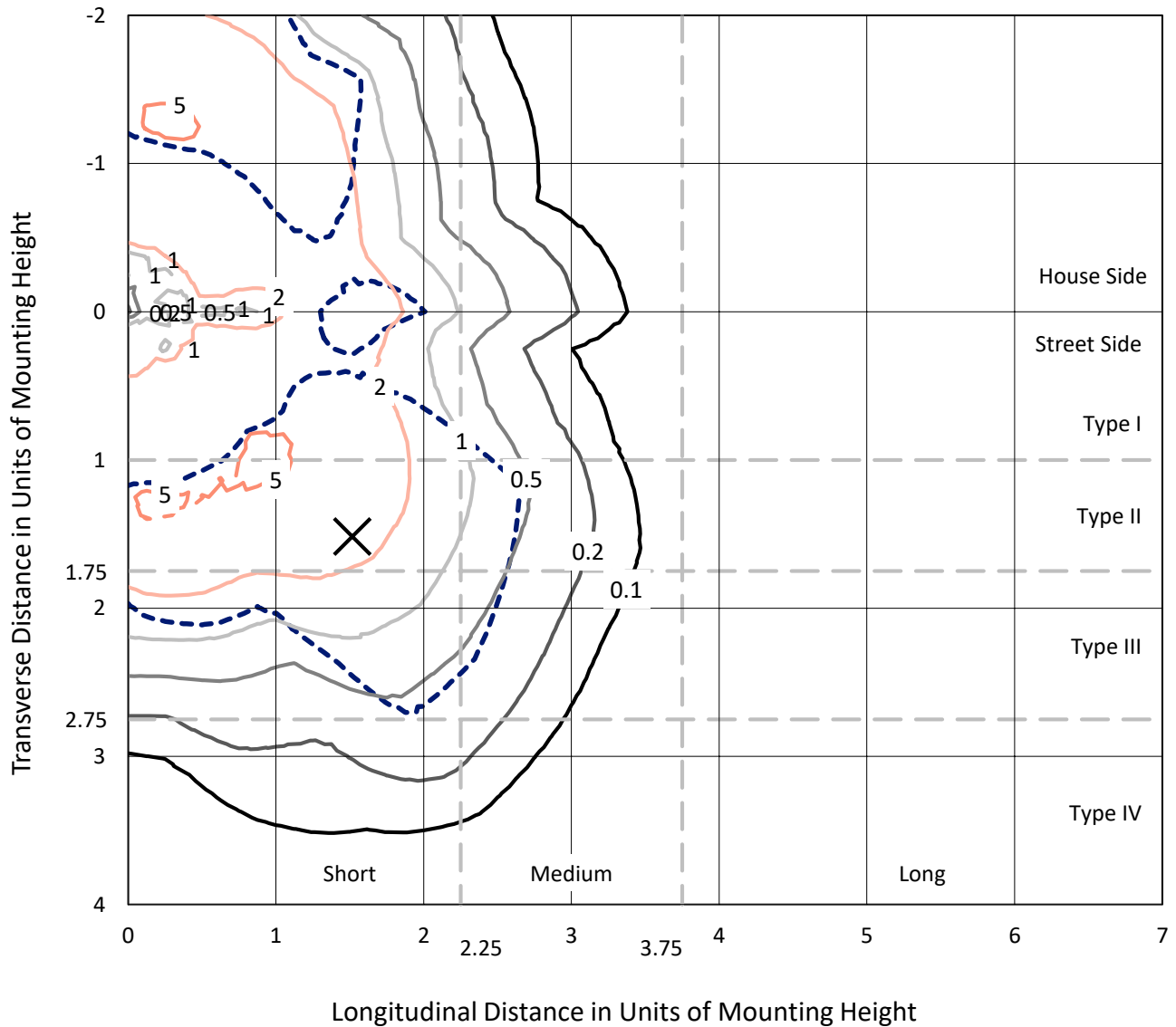
Input Watts (W): 100
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

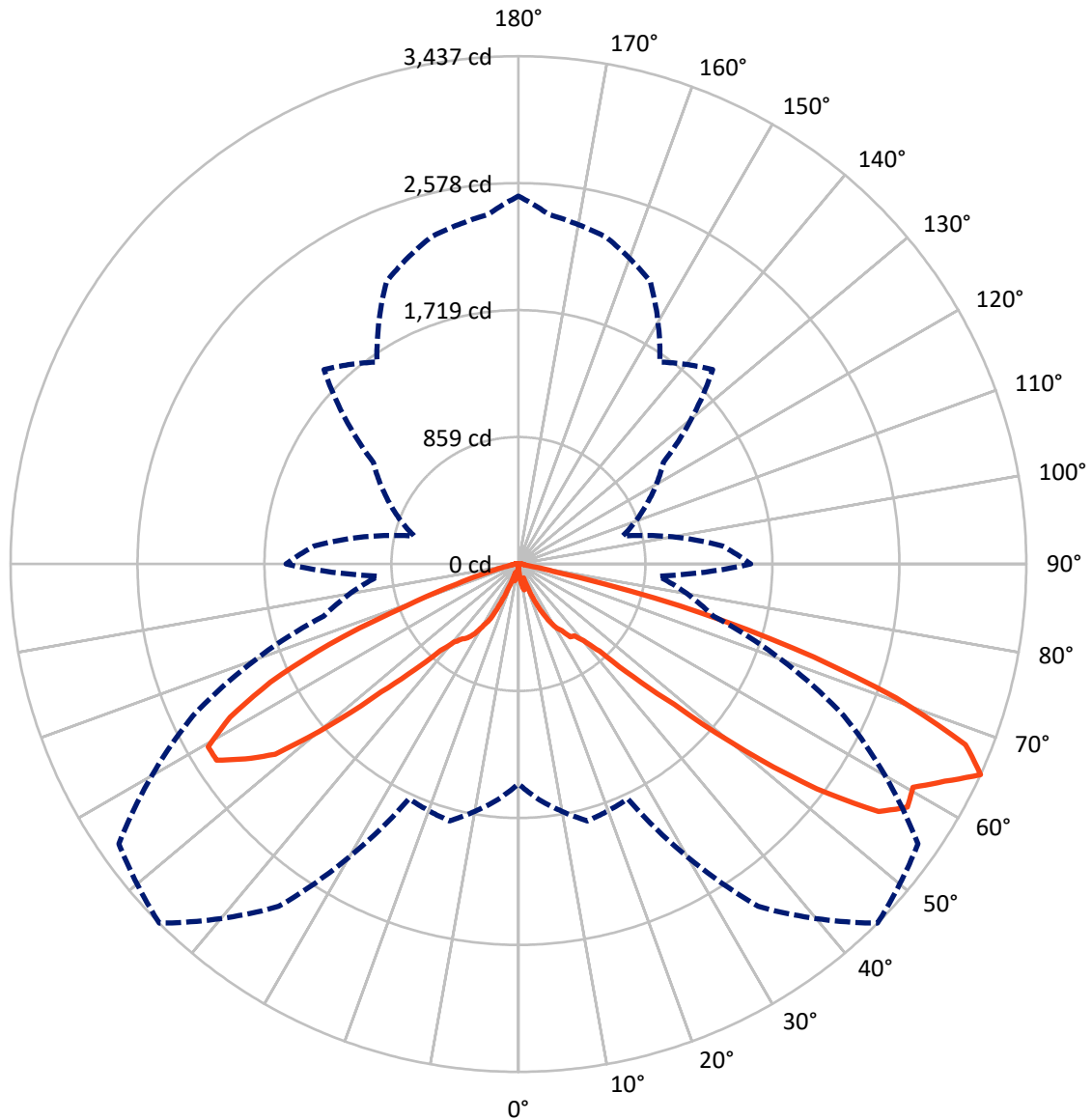
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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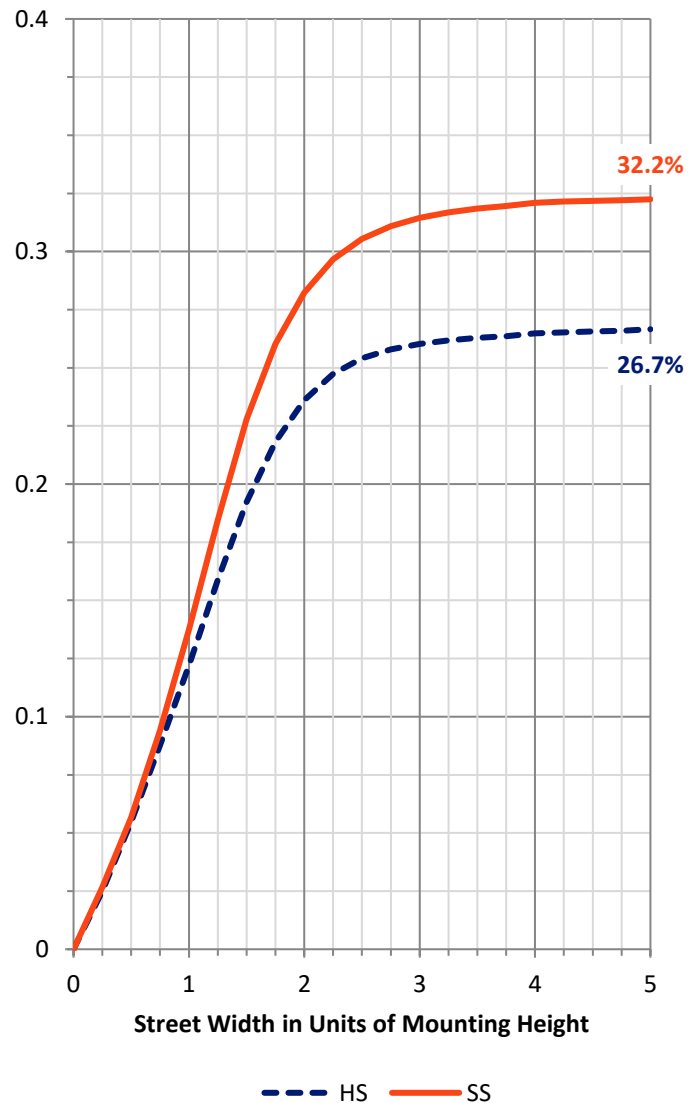
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2541.1	17.5	2558.6
	% Lamp	26.7	0.2	26.9
Street Side	Lumens	3073.2	15.0	3088.2
	% Lamp	32.3	0.2	32.5
Total	Lumens	5614.3	32.5	5646.8
	% Lamp	59.1	0.3	59.4

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	7.1	0.1	0.1
10°-20°	31.6	0.6	0.3
20°-30°	134.4	2.4	1.4
30°-40°	334.8	5.9	3.5
40°-50°	783.1	13.9	8.2
50°-60°	1970.7	34.9	20.7
60°-70°	1809.6	32.0	19.0
70°-80°	500.6	8.9	5.3
80°-90°	42.5	0.8	0.4
90°-100°	19.1	0.3	0.2
100°-110°	10.6	0.2	0.1
110°-120°	1.7	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°	5614.3	99.4	59.1
0°-180°	5646.8	100.0	59.4



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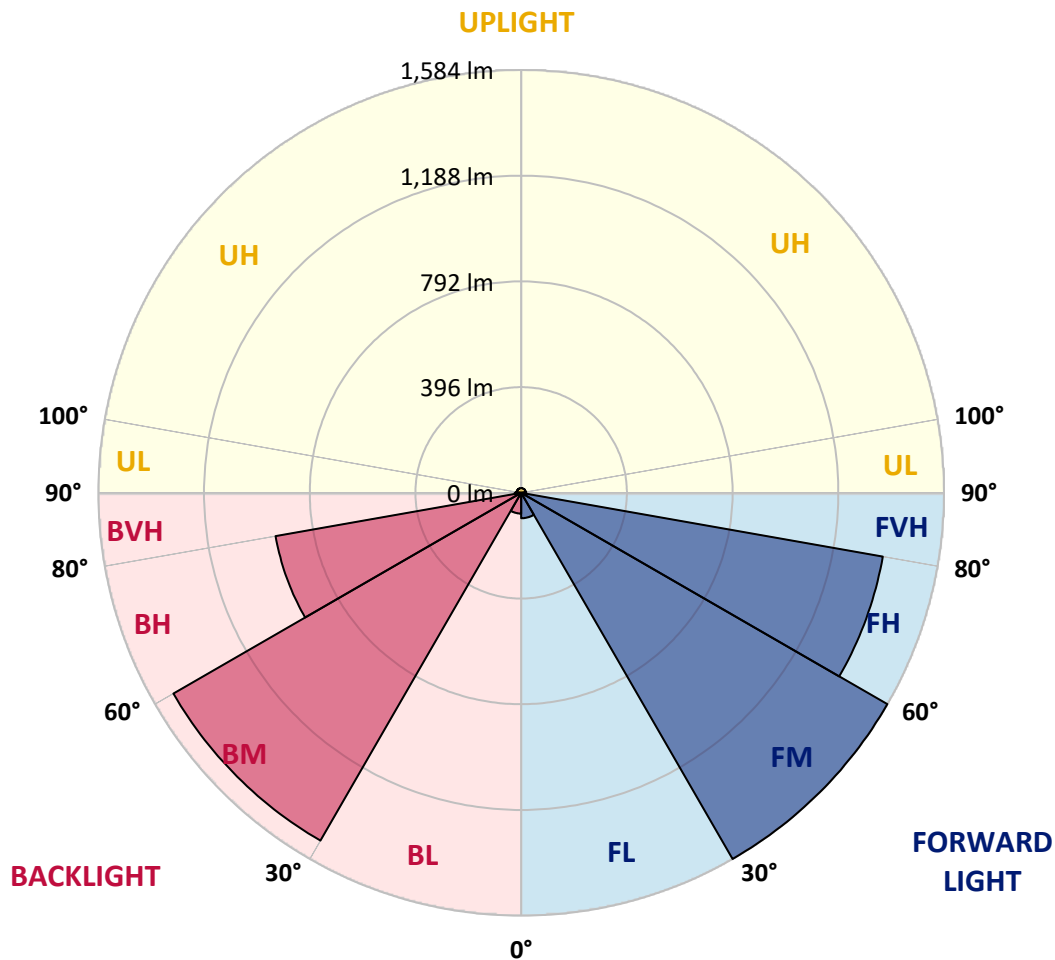
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	95.2	1.0			
FM	(30°-60°)	1584.1	16.7			
FH	(60°-80°)	1375.8	14.5			G1/1800
FVH	(80°-90°)	18.1	0.2			G1/100
BL	(0°-30°)	77.9	0.8	B0/110		
BM	(30°-60°)	1504.4	15.8	B2/2500		
BH	(60°-80°)	934.3	9.8	B2/1000		G2/1000
BVH	(80°-90°)	24.4	0.3			G1/100
UL	(90°-100°)	19.1	0.2		U2/50	
UH	(100°-180°)	17.5	0.2		U2/50	
Trapped Light		3853.2	40.6			

BUG Rating: B2-U2-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	14	14	14	14	14	14	14	14	14	14	14
2.5°	18	18	17	16	15	14	14	13	13	14	14
5°	117	113	112	99	87	78	66	52	39	31	27
7.5°	140	137	134	133	130	120	102	94	86	84	81
10°	151	151	160	170	167	161	146	142	142	139	134
12.5°	183	185	187	191	185	179	175	159	153	153	139
15°	174	173	166	163	158	148	147	137	110	114	108
17.5°	138	136	128	126	123	113	108	98	83	77	80
20°	108	111	108	106	106	99	90	76	66	62	61
22.5°	286	306	319	326	281	248	223	197	252	63	60
25°	371	375	383	392	363	344	316	280	336	91	70
27.5°	415	432	424	447	429	427	370	346	406	138	80
30°	448	468	463	483	479	498	422	413	451	197	100
32.5°	503	511	520	540	524	539	471	436	485	250	119
35°	573	570	593	607	589	605	522	472	543	299	138
37.5°	601	629	650	631	641	617	563	542	566	328	162
40°	676	693	722	702	711	680	621	599	627	377	200
42.5°	791	805	836	835	829	806	718	697	711	463	276
45°	1092	1077	1055	1084	1030	1089	876	891	866	628	442
47.5°	1382	1405	1264	1299	1280	1419	1051	1120	928	888	779
50°	1789	1873	1723	1730	1719	1988	1456	1547	1170	1323	1299
52.5°	2185	2368	2247	2245	2244	2530	1995	2112	1408	1768	1767
55°	2416	2644	2620	2580	2694	2957	2447	2552	1550	1958	2067
57.5°	2299	2676	2716	2616	2924	3105	2696	2783	1579	1863	2266
60°	2046	2396	2489	2386	2892	3068	2979	2702	1535	1627	2063
62.5°	1772	2034	2216	2104	2823	3238	3206	2571	1517	1317	1805
65°	1488	1600	1800	1753	2828	3437	3301	2429	1365	952	1572
67.5°	1005	1023	1303	1343	2798	3264	3020	2250	1097	688	1261
70°	453	459	852	902	2277	2710	2382	1987	770	414	868
72.5°	205	267	609	731	1877	1941	1620	1348	575	247	574
75°	107	215	472	700	1353	1124	819	681	281	155	237
77.5°	77	83	286	313	333	248	160	200	110	98	101
80°	45	44	51	50	59	64	61	66	63	62	57
82.5°	35	35	34	33	36	40	39	42	46	46	39
85°	33	32	30	30	32	33	31	30	30	29	30
87.5°	33	32	27	25	26	27	25	22	19	14	15
90°	27	26	22	21	21	22	21	19	15	13	14
92.5°	26	24	20	18	18	20	18	18	15	12	12
95°	25	23	20	17	18	19	17	17	15	10	11
97.5°	23	22	18	16	16	16	15	14	12	9	10
100°	20	19	16	14	14	14	13	12	11	7	9
102.5°	18	16	14	12	11	11	11	10	9	6	7
105°	15	14	12	10	10	9	9	9	8	5	5
107.5°	10	9	8	7	6	6	6	6	6	4	4
110°	5	4	4	3	2	2	2	2	3	3	3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	3	3	3	2	1	1	1	1	1	2	2
115°	3	2	2	1	1	0	0	0	1	1	1
117.5°	2	2	1	1	0	0	0	0	0	1	1
120°	2	2	1	1	0	0	0	0	0	0	1
122.5°	2	2	1	1	0	0	0	0	0	0	1
125°	2	2	1	1	0	0	0	0	0	0	0
127.5°	2	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	0	0	0	0	0	0	0	0
142.5°	1	1	1	0	0	0	0	0	0	0	1
145°	1	1	1	1	0	0	0	0	0	0	1
147.5°	1	1	1	1	0	0	0	0	0	0	1
150°	1	1	1	1	0	0	0	0	0	0	1
152.5°	1	1	1	1	0	0	0	0	0	0	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°	14	14	14	14	14	14	14	14	14	14
2.5°	14	13	13	11	10	9	9	8	9	9
5°	22	21	17	13	9	7	7	7	7	7
7.5°	76	76	64	62	62	63	58	47	43	40
10°	129	115	96	85	96	111	117	118	121	118
12.5°	129	114	112	123	118	112	112	113	113	116
15°	99	89	99	118	110	97	96	90	100	106
17.5°	78	72	73	82	85	72	63	58	62	65
20°	63	61	59	58	60	53	52	49	45	41
22.5°	63	177	175	172	167	177	172	179	167	161
25°	72	256	264	267	285	295	303	320	287	284
27.5°	83	355	364	391	415	414	445	478	420	397
30°	97	442	445	455	476	469	508	527	470	448
32.5°	120	517	506	521	555	526	562	607	549	519
35°	144	580	533	553	606	574	593	634	600	593
37.5°	173	577	594	594	636	621	646	650	620	626
40°	218	656	659	671	686	705	748	724	728	727
42.5°	283	727	783	787	788	795	844	824	819	807
45°	406	878	997	994	1001	999	1056	1072	1059	1065
47.5°	638	1028	1207	1264	1270	1267	1290	1417	1351	1303
50°	1019	1275	1540	1709	1683	1710	1689	1920	1822	1659
52.5°	1379	1526	1793	2117	2090	2105	2146	2411	2296	2062
55°	1676	1621	1826	2278	2272	2314	2418	2697	2625	2438
57.5°	1815	1497	1743	2211	2436	2414	2630	2921	2853	2793
60°	1790	1240	1509	1963	2437	2368	2732	2982	2961	3025
62.5°	1623	980	1204	1606	2210	2083	2532	2752	2816	2943
65°	1388	730	957	1198	1860	1668	2111	2291	2374	2490
67.5°	1116	526	689	853	1393	1205	1557	1718	1790	1871
70°	771	310	427	507	815	687	917	1018	1058	1138
72.5°	481	205	271	311	438	353	473	530	592	627
75°	191	132	170	186	235	209	266	315	370	377
77.5°	98	74	112	114	123	140	160	218	252	259
80°	55	43	76	70	72	92	96	141	165	168
82.5°	36	30	51	46	49	59	58	88	97	101
85°	28	25	41	39	41	42	45	56	62	65
87.5°	17	20	28	28	26	25	25	26	26	26
90°	15	19	23	22	22	20	21	22	22	22
92.5°	13	17	21	21	20	18	19	19	19	20
95°	12	17	21	21	20	18	18	19	19	19
97.5°	11	17	20	20	19	17	18	18	18	18
100°	10	16	19	18	17	15	16	16	16	16
102.5°	9	14	16	15	15	13	14	14	14	13
105°	8	12	14	13	12	11	11	11	11	11
107.5°	6	10	11	11	9	8	8	8	8	8
110°	4	6	7	6	5	5	5	4	4	4



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	3	4	4	3	2	2	1	1	1	1
115°	2	3	3	3	2	1	1	0	0	0
117.5°	2	3	3	2	2	1	0	0	0	0
120°	1	2	3	2	1	0	0	0	0	0
122.5°	1	2	3	2	1	0	0	0	0	0
125°	1	2	2	2	1	0	0	0	0	0
127.5°	1	2	2	1	1	0	0	0	0	0
130°	1	1	1	1	0	0	0	0	0	0
132.5°	1	1	1	1	0	0	0	0	0	0
135°	1	1	1	0	0	0	0	0	0	0
137.5°	1	1	1	0	0	0	0	0	0	0
140°	1	1	1	0	0	0	0	0	0	0
142.5°	1	2	1	0	0	0	0	0	0	0
145°	1	2	1	0	0	0	0	0	0	0
147.5°	1	2	1	0	0	0	0	0	0	0
150°	1	2	2	0	0	0	0	0	0	0
152.5°	1	2	2	0	0	0	0	0	0	0
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)