

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P853309

Luminaire Tested: **CRTK-N-20-750-U-T2R-RMARROA5**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P853309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-111-5)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK-N-20-750-U-T2R-RMARROA5
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

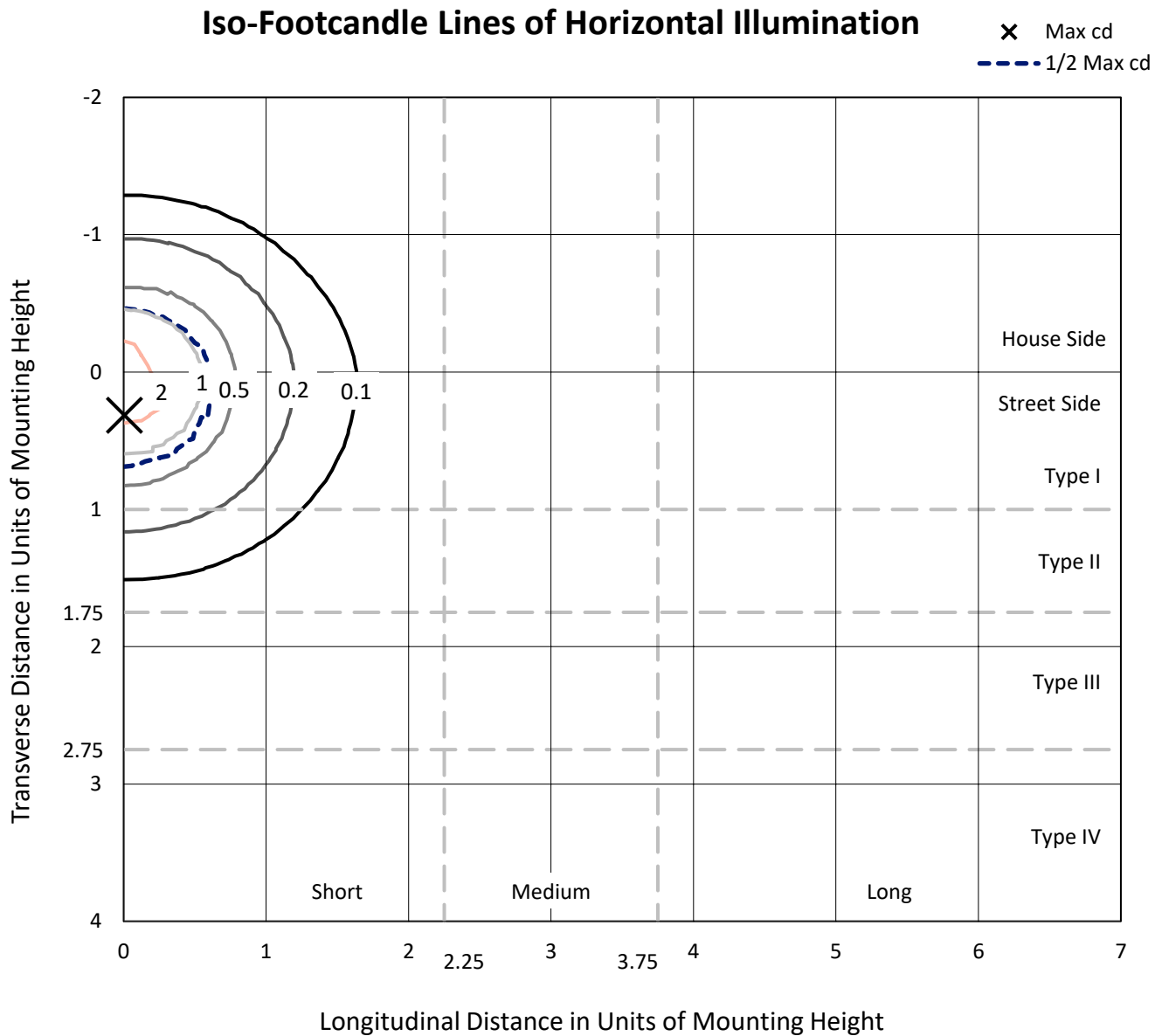
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3195 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.83' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B1 - U3 - G1

Input Watts (W): 23.2
Input Voltage (V): 120.0
Input Current (Ain): 0.196
Voltage Rise (V): NR
Power Factor: 0.9875
Total Harmonic Distortion (THDi): 10%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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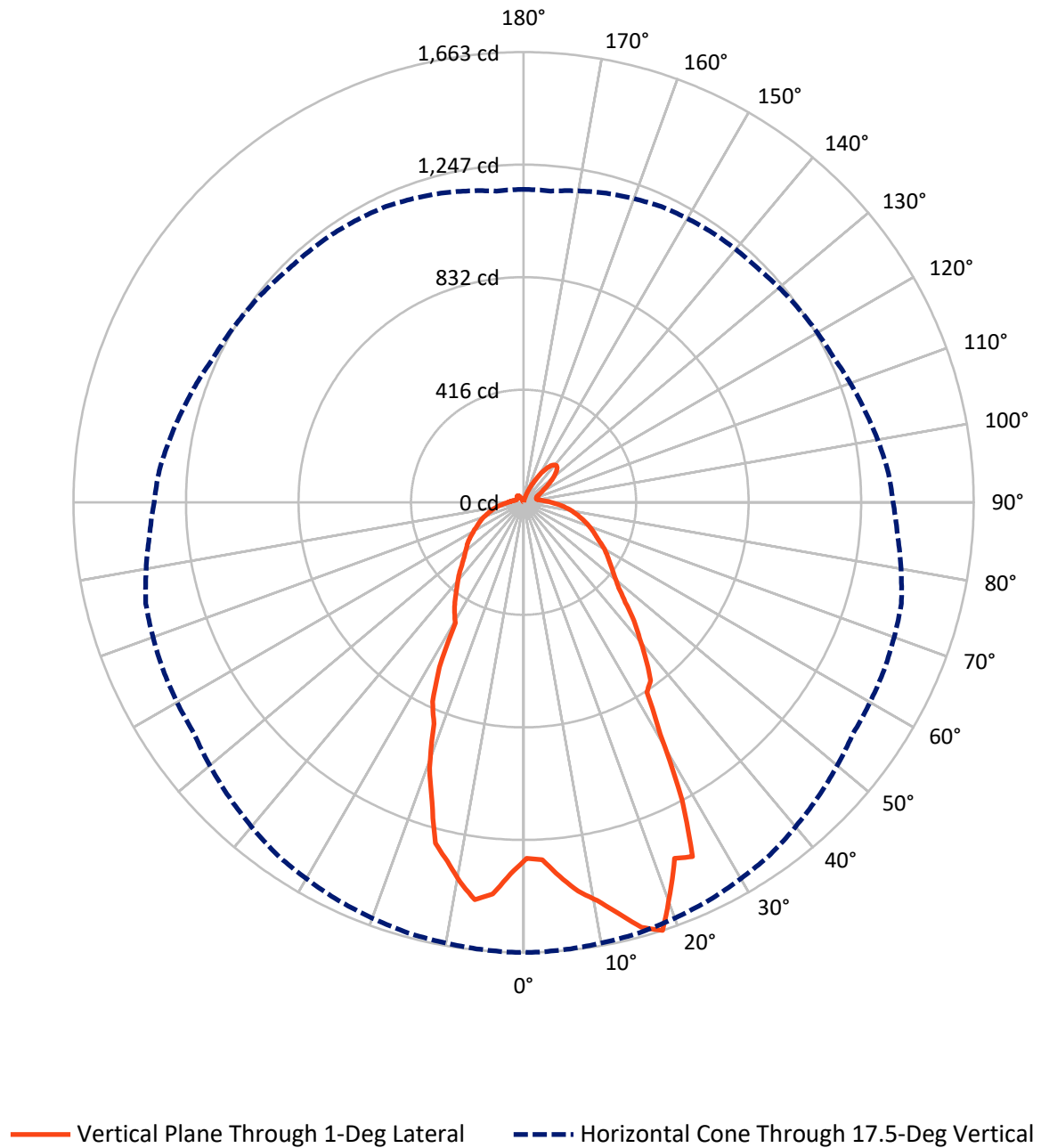


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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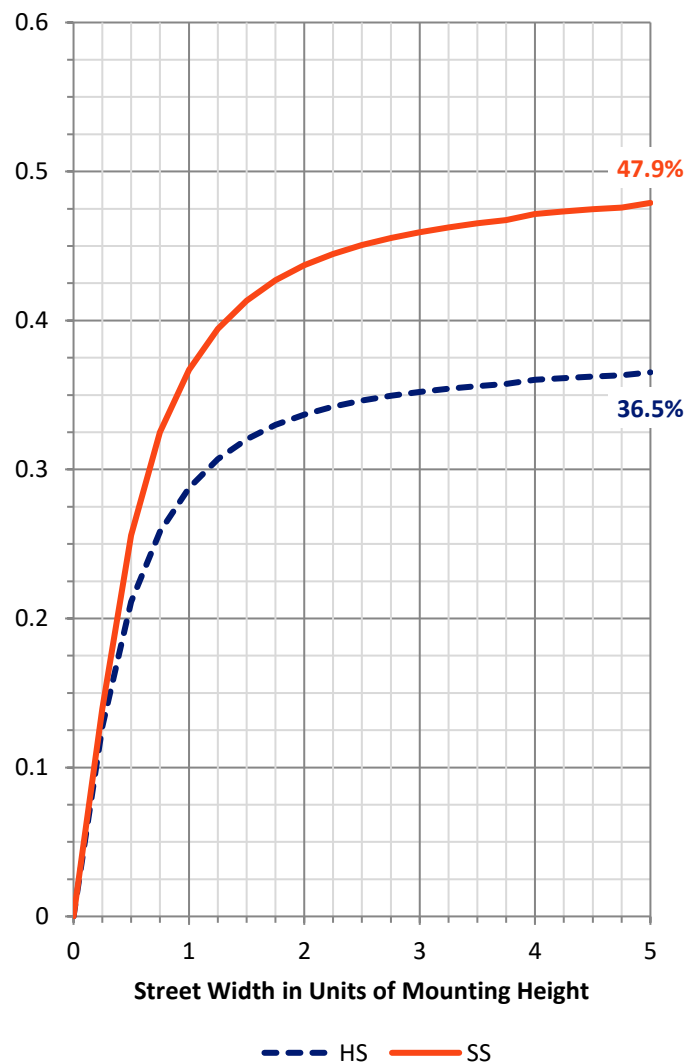
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1201.2	155.1	1356.3
	% Fixture	37.6	4.9	42.5
Street Side	Lumens	1568.0	270.7	1838.7
	% Fixture	49.1	8.5	57.5
Total	Lumens	2769.2	425.8	3195.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.0	4.1
10°-20°	390.0	12.2
20°-30°	488.3	15.3
30°-40°	412.5	12.9
40°-50°	363.1	11.4
50°-60°	337.9	10.6
60°-70°	287.6	9.0
70°-80°	218.6	6.8
80°-90°	139.2	4.4
90°-100°	75.8	2.4
100°-110°	46.8	1.5
110°-120°	47.7	1.5
120°-130°	69.6	2.2
130°-140°	90.6	2.8
140°-150°	68.5	2.1
150°-160°	24.1	0.8
160°-170°	2.6	0.1
170°-180°	0.0	0.0
0°-90°	2769.2	86.7
0°-180°	3195.0	100.0

Coefficient of Utilization



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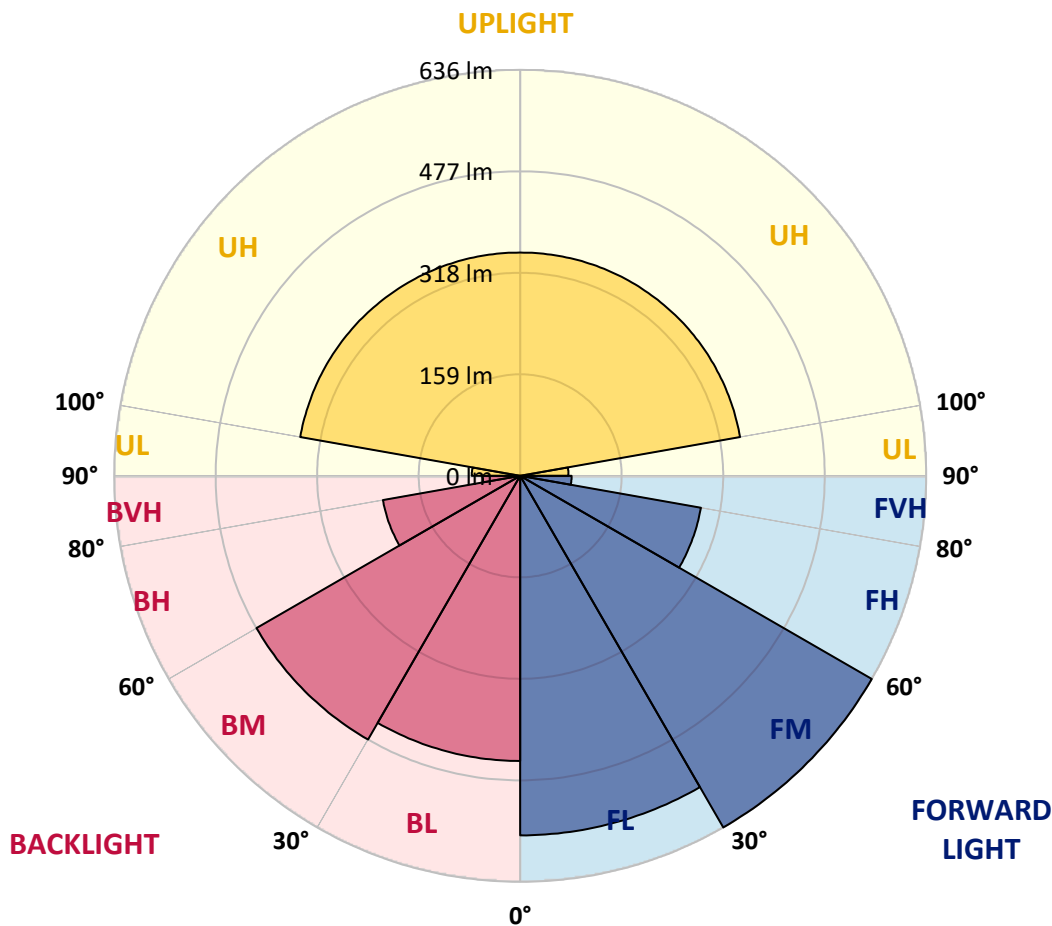
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	563.4	17.6			
FM	(30°-60°)	636.3	19.9			
FH	(60°-80°)	287.7	9.0			G0/660
FVH	(80°-90°)	80.6	2.5			G1/100
BL	(0°-30°)	446.9	14.0	B1/500		
BM	(30°-60°)	477.2	14.9	B1/1000		
BH	(60°-80°)	218.4	6.8	B1/500		G1/500
BVH	(80°-90°)	58.7	1.8			G1/100
UL	(90°-100°)	75.8	2.4		U3/500	
UH	(100°-180°)	350.0	11.0		U3/500	

BUG Rating: B1-U3-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1315	1315	1315	1315	1315	1315	1315	1315	1315	1315	1315
2.5°	1321	1322	1325	1330	1330	1330	1330	1326	1332	1330	1326
5°	1388	1388	1390	1393	1390	1386	1383	1376	1377	1371	1365
7.5°	1451	1451	1453	1455	1445	1443	1430	1411	1391	1369	1346
10°	1495	1496	1500	1498	1491	1478	1449	1412	1375	1336	1304
12.5°	1558	1558	1557	1563	1549	1527	1483	1431	1390	1347	1301
15°	1626	1629	1639	1641	1620	1588	1538	1486	1439	1393	1339
17.5°	1662	1663	1660	1647	1622	1589	1539	1487	1469	1445	1387
20°	1543	1544	1553	1551	1546	1593	1545	1479	1433	1357	1252
22.5°	1429	1429	1447	1494	1466	1442	1386	1356	1255	1241	1190
25°	1447	1450	1445	1371	1312	1336	1272	1203	1213	1183	1070
27.5°	1245	1248	1262	1292	1224	1184	1144	1062	1073	1042	1058
30°	1001	995	1000	1009	966	955	946	927	927	826	764
32.5°	833	836	838	835	833	836	819	804	792	770	748
35°	810	809	811	801	785	782	775	773	762	732	716
37.5°	735	734	737	733	716	719	714	707	694	662	650
40°	661	660	661	658	643	640	637	633	622	599	591
42.5°	601	599	601	598	583	581	579	577	570	553	551
45°	528	527	529	530	521	526	528	527	522	510	507
47.5°	473	473	474	481	478	485	489	491	494	497	497
50°	438	438	438	447	454	469	476	481	487	480	474
52.5°	409	410	411	419	430	445	456	465	468	461	458
55°	385	384	387	394	406	420	431	441	451	453	453
57.5°	362	363	365	373	385	400	416	431	445	458	464
60°	340	340	341	349	360	375	392	405	420	416	418
62.5°	313	313	315	322	333	344	355	362	372	372	374
65°	293	292	294	300	310	318	329	336	346	349	352
67.5°	273	273	274	279	289	297	305	313	322	325	329
70°	255	255	255	260	269	276	283	290	299	299	304
72.5°	234	234	238	240	250	256	262	267	275	275	279
75°	216	214	217	220	229	234	238	243	251	250	253
77.5°	197	195	198	201	207	212	214	219	224	223	226
80°	177	176	179	180	186	190	192	195	200	198	202
82.5°	158	156	159	160	164	168	170	172	176	174	177
85°	138	136	138	140	143	147	148	149	154	151	154
87.5°	118	116	119	120	123	126	128	128	132	129	132
90°	101	99	101	102	104	107	108	109	112	109	112
92.5°	85	83	85	86	88	91	93	93	96	92	95
95°	72	70	72	73	74	76	78	79	81	78	80
97.5°	62	61	62	62	63	65	67	68	69	66	67
100°	55	54	55	55	55	56	57	58	59	56	57
102.5°	51	51	51	51	51	52	53	53	52	50	50
105°	49	49	49	49	49	50	50	50	49	48	47
107.5°	49	50	49	49	49	50	50	49	48	47	45
110°	51	52	51	51	51	51	51	50	48	47	45

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	54	55	55	55	54	54	53	52	50	49	47
115°	59	61	60	60	59	59	58	56	54	53	51
117.5°	67	69	68	68	68	66	64	62	60	59	57
120°	78	80	79	79	79	76	75	71	69	68	65
122.5°	92	94	93	92	93	89	87	83	80	80	75
125°	108	111	110	109	109	105	103	98	94	93	88
127.5°	127	130	129	128	127	123	121	115	110	108	102
130°	146	149	148	147	147	143	140	134	128	123	115
132.5°	163	165	164	164	165	162	159	151	143	136	127
135°	176	177	177	177	179	176	172	165	155	146	137
137.5°	182	182	182	183	185	183	179	173	163	153	143
140°	180	179	180	181	183	183	179	173	164	153	144
142.5°	172	170	171	173	174	177	173	167	159	148	140
145°	157	154	155	157	158	162	159	154	148	138	131
147.5°	137	134	135	138	137	141	139	136	132	122	117
150°	114	110	112	114	112	116	114	113	111	103	99
152.5°	90	86	88	90	87	90	88	89	88	81	79
155°	69	66	67	68	65	67	66	67	67	61	60
157.5°	50	47	48	49	47	48	48	48	49	44	43
160°	33	31	32	32	31	32	32	32	33	29	29
162.5°	19	17	18	19	18	19	19	20	20	17	17
165°	8	6	7	7	7	8	8	9	9	7	7
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°	1315	1315	1315	1315	1315	1315	1315	1315	1315	1315	1315
2.5°	1326	1330	1336	1343	1347	1353	1358	1365	1372	1375	1372
5°	1363	1367	1372	1379	1383	1385	1398	1419	1438	1451	1451
7.5°	1338	1335	1340	1348	1355	1370	1388	1416	1453	1477	1480
10°	1291	1288	1283	1288	1293	1307	1326	1354	1393	1419	1422
12.5°	1286	1278	1270	1270	1270	1277	1292	1312	1335	1352	1356
15°	1322	1312	1297	1290	1281	1274	1275	1280	1295	1303	1300
17.5°	1365	1351	1306	1264	1243	1223	1216	1205	1182	1154	1156
20°	1236	1228	1231	1213	1186	1137	1050	1022	1027	1041	1040
22.5°	1166	1144	1098	1038	1043	971	963	957	904	885	882
25°	1044	1044	1045	959	917	870	835	811	794	796	813
27.5°	1032	993	911	827	777	769	740	685	688	687	683
30°	750	739	753	732	694	655	621	591	561	517	511
32.5°	734	720	689	649	616	583	550	522	496	483	480
35°	708	695	662	622	588	554	519	489	462	453	447
37.5°	646	635	607	571	540	509	475	450	427	418	412
40°	587	579	553	522	492	464	436	414	395	386	382
42.5°	548	539	513	482	456	427	403	383	366	358	354
45°	505	498	474	447	421	391	370	351	335	328	324
47.5°	491	480	450	421	395	367	345	325	311	305	301
50°	470	460	432	404	376	347	324	304	291	285	282
52.5°	451	438	412	382	354	326	305	288	275	269	266
55°	448	433	404	371	338	311	289	272	259	254	251
57.5°	454	437	398	357	323	295	273	257	244	236	233
60°	419	408	370	339	307	278	256	239	224	219	215
62.5°	373	364	336	308	283	258	237	220	206	201	198
65°	350	342	317	290	266	243	221	205	192	187	184
67.5°	328	321	298	271	248	224	206	190	178	173	171
70°	303	297	274	249	226	206	190	175	164	160	157
72.5°	278	271	250	224	205	186	172	159	148	144	142
75°	253	246	223	202	184	168	155	143	134	130	128
77.5°	226	219	200	181	165	151	139	129	120	117	115
80°	201	194	178	160	146	134	124	114	107	104	103
82.5°	177	171	156	141	128	117	109	101	95	92	91
85°	153	148	135	122	111	102	93	87	82	80	78
87.5°	131	126	115	104	95	87	79	74	70	69	66
90°	111	107	98	89	81	74	68	64	60	59	58
92.5°	95	91	84	77	71	64	60	56	54	53	52
95°	80	78	72	66	62	57	53	50	48	48	47
97.5°	68	66	61	58	54	50	47	45	44	44	42
100°	57	56	52	49	47	44	41	40	39	39	38
102.5°	50	49	46	43	41	39	37	36	35	35	34
105°	46	45	42	40	38	36	34	33	32	32	31
107.5°	44	43	41	39	36	34	33	32	29	30	30
110°	44	43	41	39	36	34	33	31	27	29	28

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	46	45	43	40	37	35	33	31	26	28	28
115°	50	48	46	43	40	37	35	32	26	27	27
117.5°	55	53	51	47	43	40	37	33	27	27	27
120°	63	60	57	52	47	44	40	35	28	28	28
122.5°	72	69	65	58	52	48	43	38	29	29	29
125°	83	80	75	66	58	54	47	40	31	30	30
127.5°	97	92	85	74	65	60	51	42	32	30	31
130°	110	104	95	83	73	65	56	45	34	30	32
132.5°	121	115	105	92	80	71	60	47	35	31	32
135°	131	125	113	99	86	75	63	49	36	32	33
137.5°	138	132	118	104	90	77	64	50	36	32	32
140°	139	134	119	105	90	77	63	50	36	32	32
142.5°	136	130	116	102	88	74	61	47	34	30	30
145°	128	123	109	96	82	69	56	43	31	27	27
147.5°	114	110	97	87	73	61	49	38	27	23	23
150°	98	95	83	74	63	51	41	32	22	19	18
152.5°	80	77	67	60	50	41	33	25	18	15	14
155°	60	59	50	46	38	31	25	19	13	11	10
157.5°	44	42	36	33	28	23	18	14	9	7	6
160°	29	29	24	22	19	15	12	9	6	4	3
162.5°	17	17	14	13	12	9	7	6	4	2	2
165°	8	8	6	6	5	5	4	3	2	2	1
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)