

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: P179300

Luminaire Tested: **UTLD-E02-LED-E-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179300
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34323)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-E02-LED-E-U-SL4-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3575 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

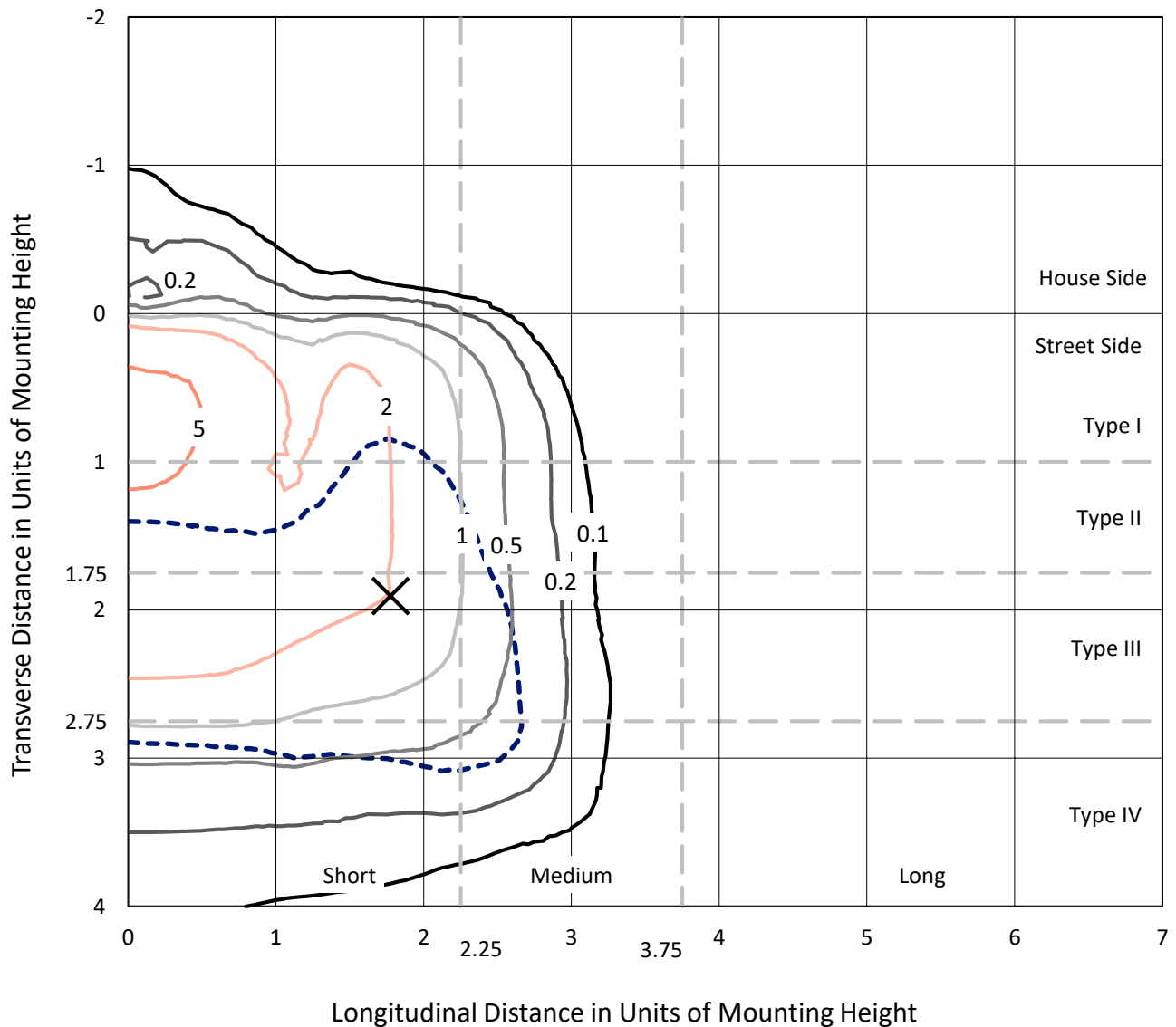
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

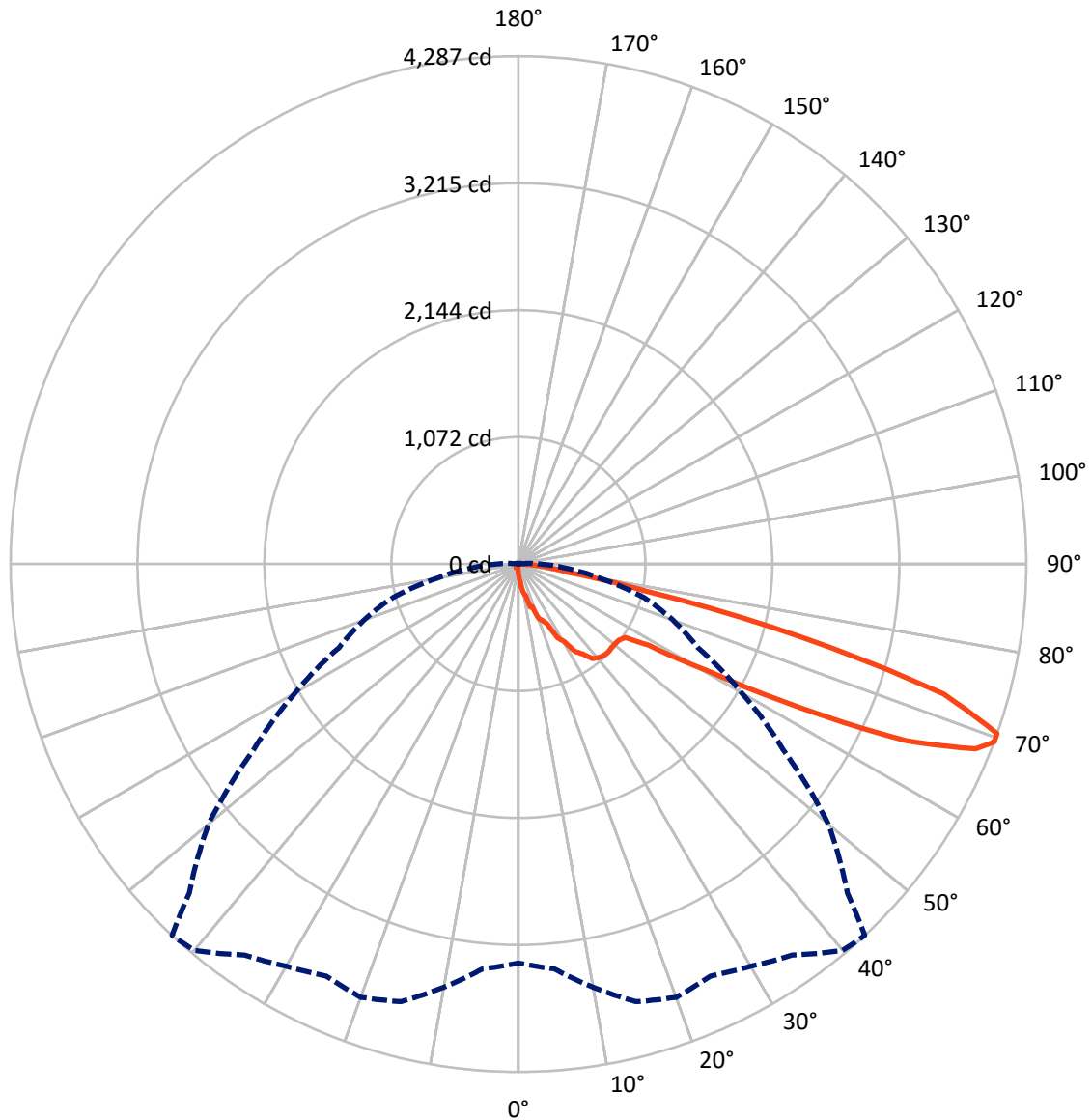
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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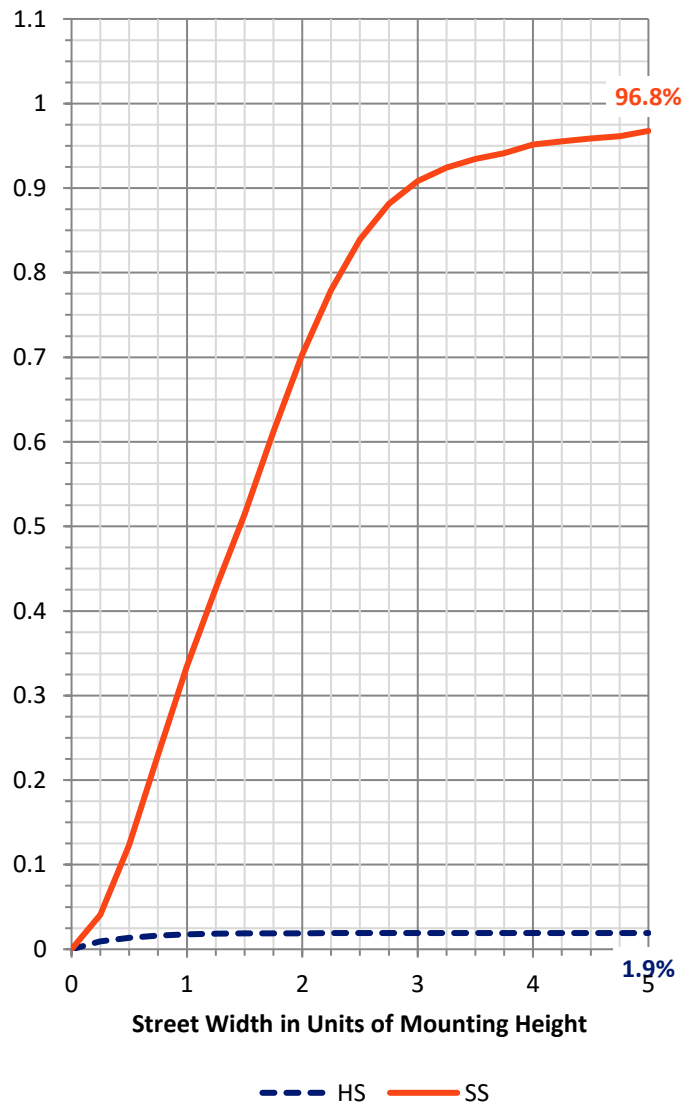
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	69.3	0.0	69.3
	% Fixture	1.9	0.0	1.9
Street Side	Lumens	3505.7	0.0	3505.7
	% Fixture	98.1	0.0	98.1
Total	Lumens	3575.0	0.0	3575.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	0.3
10°-20°	49.6	1.4
20°-30°	137.0	3.8
30°-40°	287.0	8.0
40°-50°	414.6	11.6
50°-60°	643.2	18.0
60°-70°	1358.0	38.0
70°-80°	604.0	16.9
80°-90°	71.7	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3575.0	100.0
0°-180°	3575.0	100.0

Coefficient of Utilization



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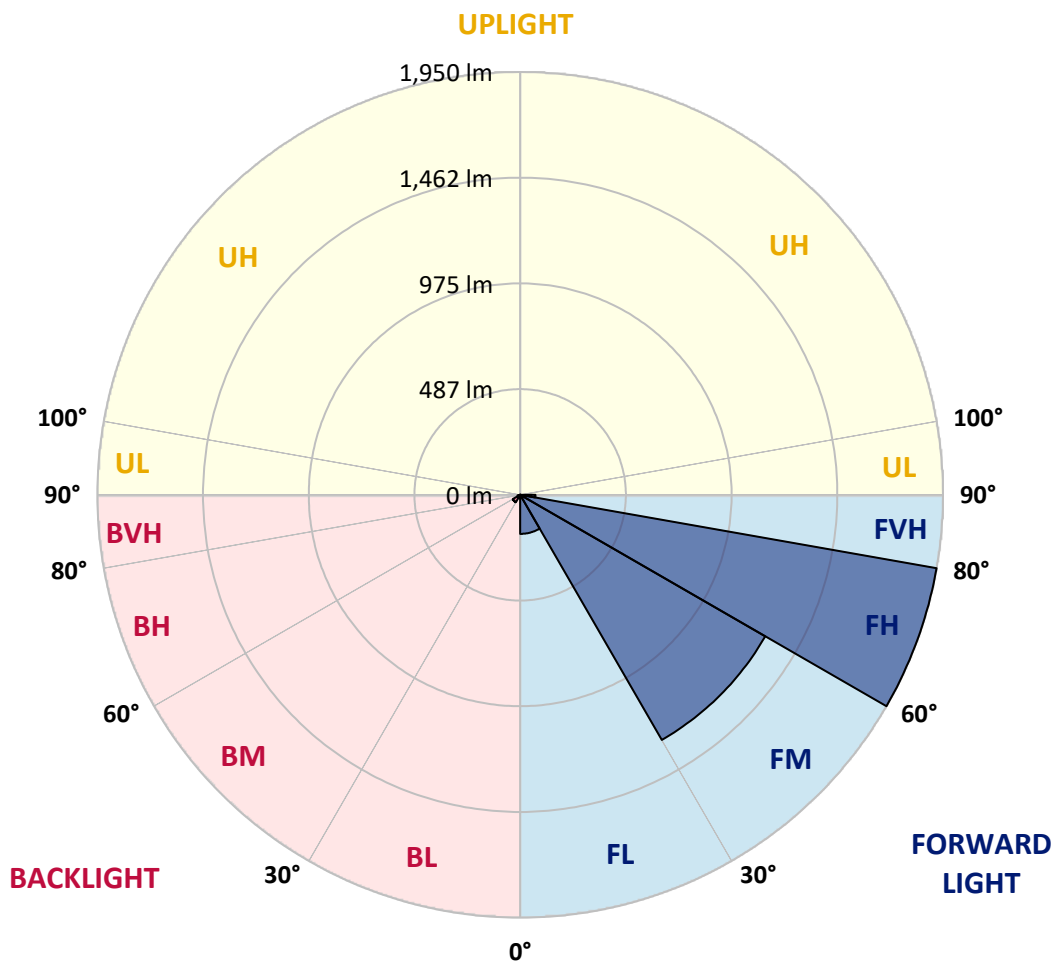
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	180.2	5.0			
FM	(30°-60°)	1305.2	36.5			
FH	(60°-80°)	1949.8	54.5			G2/5000
FVH	(80°-90°)	70.5	2.0			G1/100
BL	(0°-30°)	16.4	0.5	B0/110		
BM	(30°-60°)	39.6	1.1	B0/220		
BH	(60°-80°)	12.2	0.3	B0/110		G0/110
BVH	(80°-90°)	1.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	43°	45°
0°	79	79	79	79	79	79	79	79	79	79	79
2.5°	132	132	131	130	127	126	123	121	122	121	120
5°	169	166	162	156	154	151	149	144	142	141	139
7.5°	280	273	269	268	265	262	254	247	240	214	177
10°	301	302	303	297	299	289	279	273	269	254	245
12.5°	396	390	389	393	384	379	368	350	290	270	277
15°	459	467	438	403	395	387	364	368	395	377	357
17.5°	494	496	491	487	473	464	480	407	399	378	364
20°	619	621	612	570	518	492	507	479	469	490	417
22.5°	677	679	671	659	636	641	606	515	522	518	468
25°	831	836	827	807	788	698	660	660	602	556	529
27.5°	993	974	914	888	874	828	825	722	690	705	614
30°	1103	1106	1096	1053	1026	1014	902	846	771	758	669
32.5°	1319	1320	1299	1279	1154	1101	1024	952	841	879	765
35°	1526	1531	1475	1363	1326	1226	1130	1008	934	932	813
37.5°	1648	1648	1606	1525	1486	1348	1194	1103	970	1012	878
40°	1803	1799	1763	1668	1555	1394	1271	1146	1033	1039	921
42.5°	1865	1860	1835	1739	1588	1451	1290	1158	1048	1056	941
45°	1896	1891	1864	1759	1601	1458	1284	1151	1051	1061	952
47.5°	1889	1882	1860	1772	1640	1453	1245	1136	1046	1056	956
50°	1851	1849	1829	1750	1636	1433	1223	1121	1045	1057	964
52.5°	1829	1831	1812	1757	1614	1426	1235	1126	1051	1065	976
55°	2117	2080	2007	1892	1688	1486	1292	1162	1081	1095	1004
57.5°	3072	3038	2887	2608	2213	1814	1512	1329	1252	1290	1214
60°	3633	3594	3556	3430	3100	2744	2202	1904	1761	1821	1746
62.5°	3866	3863	3845	3822	3593	3430	3026	2738	2630	2674	2515
65°	4012	4031	4035	4047	3898	3774	3538	3464	3607	3597	3300
67.5°	3909	3920	3986	4089	4015	3900	3867	3928	4112	4164	3796
69°	3369	3429	3627	3824	3892	3837	3920	4030	4257	4287	3929
70°	2686	2794	3016	3428	3591	3598	3840	4013	4269	4286	3937
72.5°	1207	1227	1349	1568	2190	2402	2995	3534	3796	3756	3420
75°	815	824	817	827	946	1138	1452	2249	2564	2482	2169
77.5°	675	674	661	652	656	684	682	780	1081	1111	976
80°	605	599	588	570	551	524	496	442	405	419	370
82.5°	328	317	342	366	421	444	408	341	306	287	256
85°	77	74	87	121	207	211	205	169	147	137	124
87.5°	20	20	21	21	102	117	95	43	33	29	25
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	79	79	79	79	79	79	79	79	79	79	79
2.5°	118	117	115	115	113	108	94	81	73	70	67
5°	134	130	125	120	115	112	110	89	69	64	59
7.5°	153	144	136	128	121	110	104	99	67	59	54
10°	231	221	155	154	137	125	120	115	80	68	59
12.5°	275	261	235	193	143	135	118	106	76	60	55
15°	292	275	248	236	184	160	135	122	84	72	59
17.5°	361	352	280	254	221	159	139	108	84	64	56
20°	391	368	316	301	268	218	166	143	103	84	64
22.5°	439	433	398	318	281	237	172	150	112	81	61
25°	526	462	416	404	349	291	218	165	121	85	67
27.5°	569	535	483	437	359	301	244	180	130	92	69
30°	687	571	532	485	401	319	248	188	129	90	70
32.5°	734	656	586	510	451	358	275	191	134	93	77
35°	799	702	650	575	486	389	282	197	127	90	76
37.5°	854	750	665	596	500	398	291	203	131	88	73
40°	883	773	676	611	499	403	308	196	127	86	68
42.5°	907	798	694	627	519	425	313	206	126	86	63
45°	923	821	734	646	545	449	320	208	128	86	59
47.5°	932	849	774	674	591	496	361	227	131	83	55
50°	944	879	807	710	640	523	392	237	135	78	52
52.5°	953	895	829	755	710	607	469	284	146	75	49
55°	996	966	962	983	1015	995	806	488	225	88	56
57.5°	1281	1335	1433	1517	1493	1445	1159	675	305	96	65
60°	1865	1919	1958	1918	1784	1669	1307	765	340	80	51
62.5°	2496	2397	2277	2097	1946	1726	1376	816	349	68	38
65°	3044	2732	2460	2137	1951	1718	1359	795	334	56	31
67.5°	3376	2844	2420	1979	1708	1439	1050	611	256	45	26
69°	3414	2726	2178	1671	1389	1098	703	404	179	38	23
70°	3344	2563	1904	1399	1108	815	512	297	129	34	22
72.5°	2701	1776	1092	688	486	338	207	121	55	25	19
75°	1481	763	432	286	222	170	117	65	32	21	16
77.5°	545	344	247	196	129	74	50	37	26	17	12
80°	327	239	174	93	62	47	36	29	21	13	8
82.5°	209	142	75	55	44	35	28	24	15	9	4
85°	96	57	45	39	34	31	29	24	12	5	3
87.5°	22	21	25	23	22	21	19	16	6	4	3
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	79	79	79	79	79	79	79	79	79	79	79
2.5°	65	63	61	60	58	58	56	56	55	54	55
5°	55	53	51	49	47	45	46	47	47	48	42
7.5°	51	48	44	42	41	20	16	15	14	15	15
10°	52	47	44	18	13	13	13	13	14	17	21
12.5°	49	43	23	21	19	18	21	20	20	20	20
15°	55	31	24	21	23	25	25	24	20	20	24
17.5°	35	29	27	32	31	26	24	27	28	26	23
20°	46	41	37	32	30	30	33	28	26	27	28
22.5°	47	44	46	43	40	32	31	30	31	29	28
25°	59	60	54	44	42	39	36	30	31	28	30
27.5°	63	59	54	52	48	39	39	33	31	31	27
30°	66	60	56	51	46	43	38	34	31	30	29
32.5°	70	62	54	50	46	40	39	34	31	28	28
35°	65	58	53	49	42	38	36	33	29	28	26
37.5°	59	53	49	44	40	35	34	30	28	26	25
40°	54	48	44	40	36	32	30	27	24	23	23
42.5°	51	44	39	36	32	29	27	24	22	21	21
45°	47	40	35	31	28	26	24	21	19	19	19
47.5°	45	37	32	28	25	23	21	18	16	17	17
50°	42	34	28	26	23	21	19	16	15	15	15
52.5°	39	30	25	23	21	19	16	13	12	13	12
55°	39	27	22	20	18	16	13	11	10	9	8
57.5°	46	27	19	18	16	13	10	8	7	5	4
60°	40	27	17	16	14	11	8	6	4	3	2
62.5°	28	21	15	14	11	8	5	3	2	1	1
65°	24	17	14	12	9	6	3	2	1	1	1
67.5°	21	16	12	10	8	4	2	1	1	1	1
69°	19	15	12	9	7	3	2	1	1	1	1
70°	18	14	11	9	6	3	1	1	1	1	1
72.5°	15	11	9	8	5	2	1	1	1	1	1
75°	11	9	6	6	4	2	1	1	1	1	0
77.5°	8	6	4	4	3	2	1	1	1	1	0
80°	5	4	3	3	2	2	0	1	1	1	1
82.5°	3	3	3	2	2	2	1	2	1	1	1
85°	3	3	3	2	2	2	1	2	2	2	1
87.5°	3	3	3	3	3	3	1	3	3	2	2
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	79	79	79	79	79
2.5°	55	55	56	57	57
5°	32	22	23	23	23
7.5°	15	15	16	16	16
10°	23	23	23	23	24
12.5°	21	22	22	22	23
15°	25	26	27	27	28
17.5°	23	23	25	25	25
20°	27	27	27	27	27
22.5°	24	25	28	29	30
25°	28	27	27	27	27
27.5°	28	28	29	29	29
30°	28	26	26	27	28
32.5°	28	28	27	27	27
35°	26	28	28	28	28
37.5°	25	25	28	29	29
40°	24	25	26	30	30
42.5°	23	25	27	29	29
45°	22	24	25	27	27
47.5°	20	22	23	24	24
50°	18	18	19	19	18
52.5°	13	13	12	12	12
55°	8	7	7	7	6
57.5°	4	4	3	3	3
60°	2	1	1	1	1
62.5°	1	1	0	0	0
65°	1	1	0	0	0
67.5°	1	0	0	0	0
69°	0	0	0	0	0
70°	0	0	0	0	0
72.5°	0	0	0	0	0
75°	0	0	0	0	0
77.5°	0	0	0	0	0
80°	0	0	0	0	0
82.5°	1	0	0	0	0
85°	1	1	1	0	0
87.5°	2	1	1	1	0
90°	0	0	0	0	0

(END OF REPORT)