

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: P179360

Luminaire Tested: **UTLD-E02-LED-E-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179360
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34327)
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-T3-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ HOUSE SIDE SHIELD
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2851.7 lumens
Efficiency: N/A
Efficacy: 54.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

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



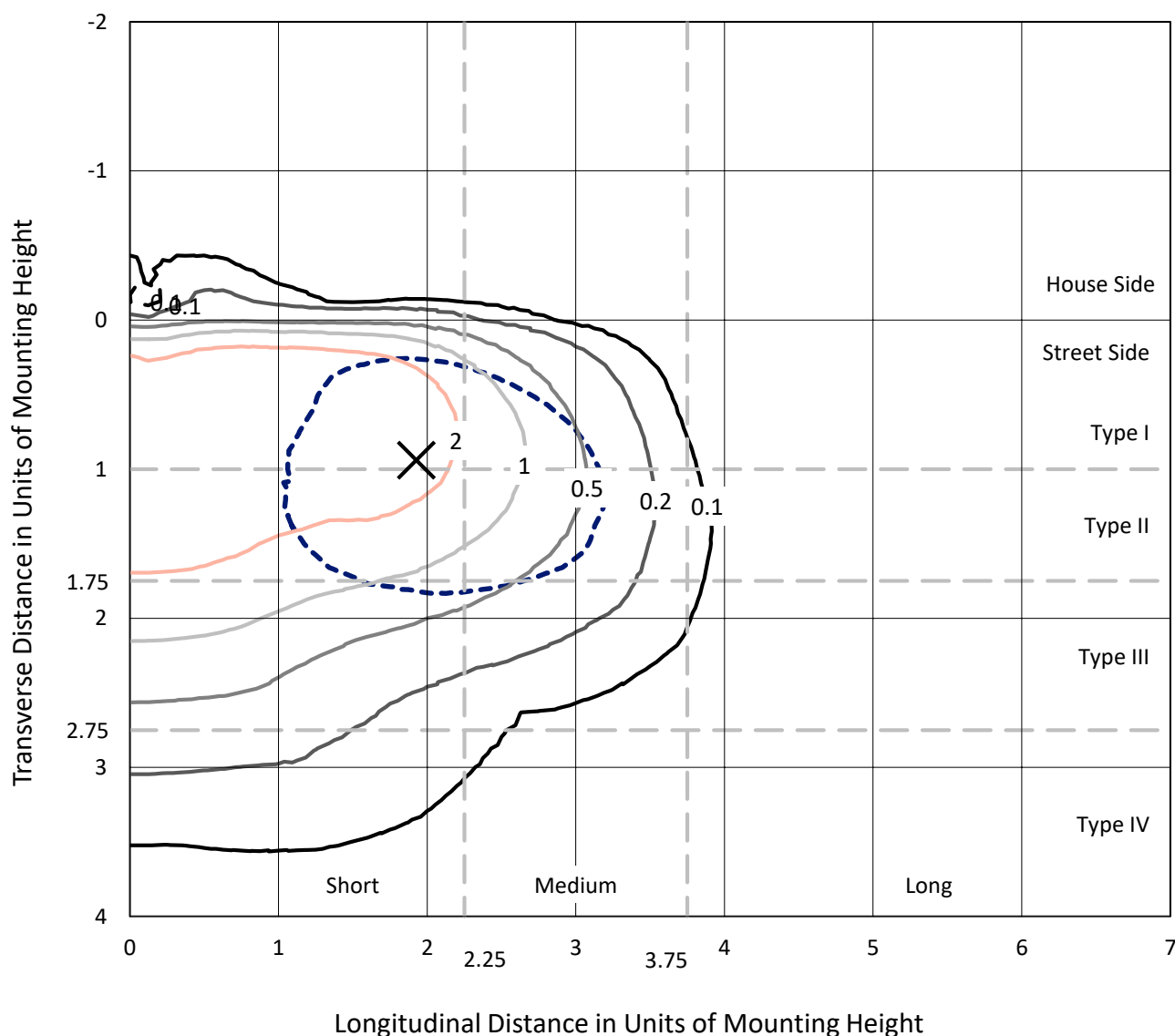
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

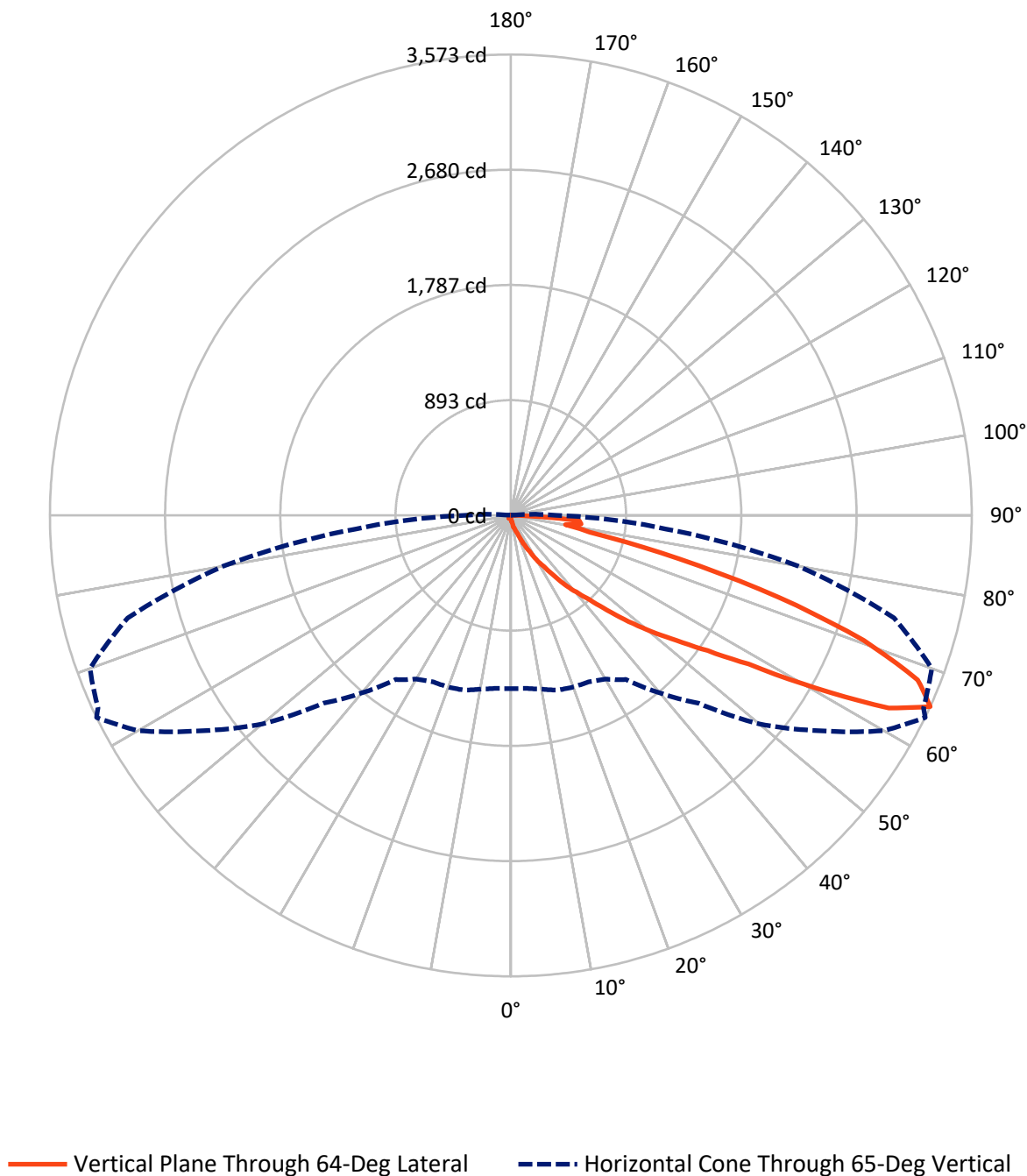


Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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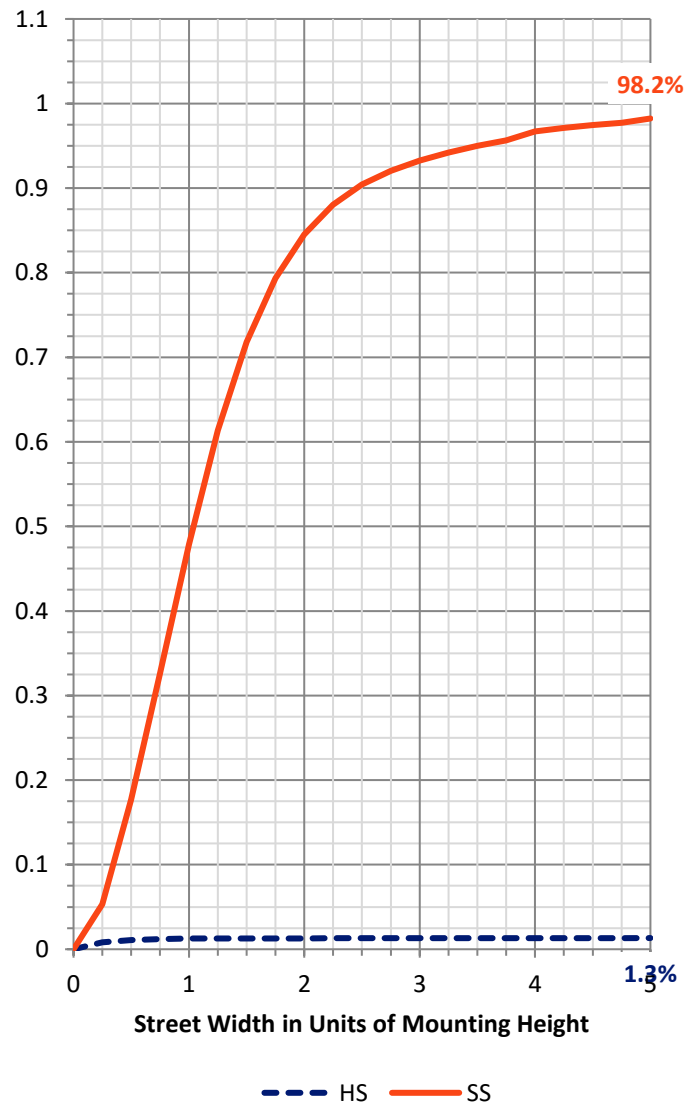
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	38.8	0.0	38.8
	% Fixture	1.4	0.0	1.4
Street Side	Lumens	2812.9	0.0	2812.9
	% Fixture	98.6	0.0	98.6
Total	Lumens	2851.7	0.0	2851.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.1
10°-20°	24.6	0.9
20°-30°	77.3	2.7
30°-40°	187.7	6.6
40°-50°	397.9	14.0
50°-60°	716.6	25.1
60°-70°	959.5	33.6
70°-80°	414.8	14.5
80°-90°	69.6	2.4
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°	2851.7	100.0
0°-180°	2851.7	100.0

Coefficient of Utilization



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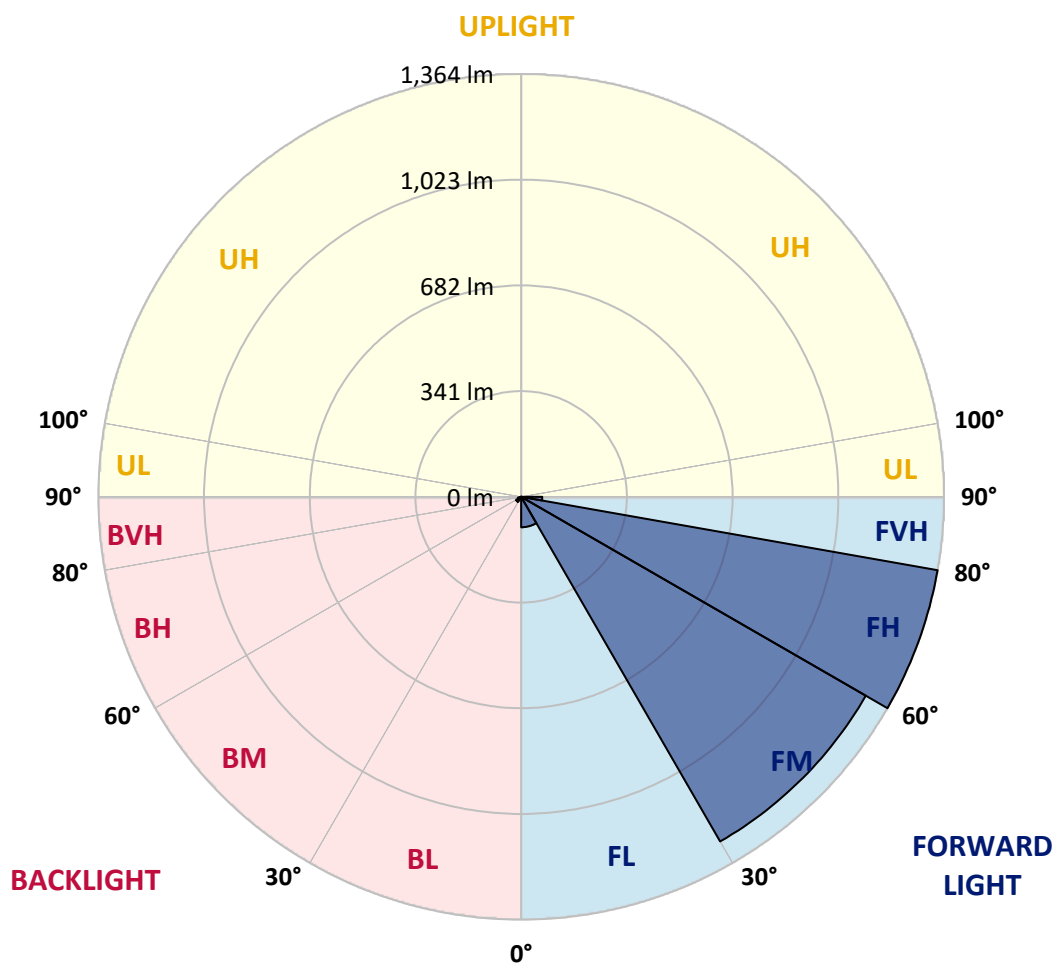
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	98.1	3.4			
FM	(30°-60°)	1283.3	45.0			
FH	(60°-80°)	1363.5	47.8			G1/1800
FVH	(80°-90°)	68.0	2.4			G1/100
BL	(0°-30°)	7.5	0.3	B0/110		
BM	(30°-60°)	19.0	0.7	B0/220		
BH	(60°-80°)	10.7	0.4	B0/110		G0/110
BVH	(80°-90°)	1.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	25	25	25	25	25	25	25	25	25	25	25
2.5°	41	41	40	41	40	39	39	38	38	37	37
5°	60	60	59	57	55	54	53	50	49	48	46
7.5°	107	107	105	103	102	100	98	94	90	67	58
10°	137	135	133	129	128	123	118	115	111	101	94
12.5°	192	191	189	190	184	180	172	165	132	124	121
15°	253	237	222	208	204	200	188	189	197	180	141
17.5°	259	260	258	258	252	249	256	222	216	201	190
20°	326	327	325	304	275	265	280	270	270	246	231
22.5°	341	344	341	340	333	350	339	293	310	289	278
25°	414	416	415	406	419	368	360	382	361	336	347
27.5°	492	490	445	430	436	430	453	416	435	411	394
30°	529	532	528	511	511	527	486	501	487	451	511
32.5°	636	640	628	625	579	563	549	564	529	555	570
35°	762	764	746	669	668	649	646	611	629	609	665
37.5°	867	862	833	796	798	759	718	721	692	694	747
40°	1006	1004	983	953	909	860	835	823	800	784	834
42.5°	1135	1148	1139	1100	1035	1013	953	929	922	896	937
45°	1295	1294	1293	1254	1212	1166	1077	1064	1052	1049	1094
47.5°	1415	1416	1420	1394	1365	1300	1212	1209	1216	1209	1266
50°	1496	1505	1520	1514	1475	1431	1376	1366	1375	1371	1462
52.5°	1550	1561	1579	1590	1548	1529	1506	1493	1536	1537	1641
55°	1571	1583	1601	1623	1591	1595	1586	1584	1653	1669	1806
57.5°	1554	1565	1585	1612	1603	1636	1617	1626	1733	1775	1952
60°	1509	1519	1541	1586	1574	1613	1604	1647	1786	1879	2121
62.5°	1434	1446	1470	1513	1519	1553	1562	1635	1822	1984	2347
65°	1342	1345	1367	1402	1416	1423	1464	1553	1795	2058	2516
67.5°	1203	1210	1224	1245	1256	1219	1253	1345	1588	1903	2391
70°	853	852	883	973	1000	917	915	972	1171	1472	1913
72.5°	582	589	603	631	717	691	682	652	730	897	1264
75°	443	446	504	551	609	636	653	617	588	562	724
77.5°	151	164	192	263	411	501	557	609	644	617	598
80°	33	34	38	51	144	259	325	415	517	575	625
82.5°	14	15	18	22	34	96	135	156	211	279	455
85°	5	5	6	8	13	24	36	39	60	88	149
87.5°	2	2	2	3	4	6	7	8	10	21	50
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	55°	60°	64°	65°	70°	75°	80°	85°	90°	95°	100°
0°	25	25	25	25	25	25	25	25	25	25	25
2.5°	37	36	36	36	35	32	30	26	24	22	21
5°	44	41	39	39	36	35	34	29	23	20	18
7.5°	53	49	46	45	41	36	34	31	23	19	17
10°	89	63	58	56	50	44	40	38	28	22	20
12.5°	113	100	90	79	59	53	45	38	29	22	18
15°	131	117	103	102	84	68	55	48	34	28	23
17.5°	189	146	127	126	107	75	63	47	37	27	22
20°	215	183	153	158	139	110	80	61	44	36	29
22.5°	276	248	214	192	161	130	88	68	50	37	30
25°	320	284	271	268	222	175	117	80	56	41	36
27.5°	396	369	325	320	253	192	147	95	62	45	38
30°	446	426	411	400	317	231	167	108	67	47	39
32.5°	544	506	473	456	402	292	202	124	73	50	43
35°	624	620	572	568	490	373	246	145	76	51	42
37.5°	729	706	683	671	598	458	301	178	89	53	42
40°	813	790	781	770	674	541	372	194	91	54	41
42.5°	920	884	892	880	778	652	443	232	98	54	39
45°	1056	1037	1046	1026	925	794	517	270	108	53	36
47.5°	1230	1219	1229	1194	1117	981	672	339	121	52	34
50°	1415	1431	1417	1384	1351	1181	853	424	140	50	32
52.5°	1632	1634	1609	1608	1609	1442	1042	526	164	48	30
55°	1838	1863	1850	1865	1888	1773	1274	643	197	45	28
57.5°	2049	2138	2174	2221	2265	2202	1587	813	237	42	26
60°	2322	2564	2718	2775	2812	2683	1993	1030	295	39	23
62.5°	2675	3062	3289	3355	3305	3035	2229	1192	342	37	20
65°	2908	3337	3573	3531	3472	3075	2262	1207	352	33	18
67.5°	2770	3166	3402	3339	3296	2875	2028	1112	328	28	16
70°	2295	2696	2903	2851	2882	2440	1659	942	291	24	14
72.5°	1649	1964	2176	2144	2227	1754	1222	741	242	20	12
75°	1007	1296	1347	1298	1239	895	590	403	156	15	9
77.5°	616	707	624	632	498	224	111	83	44	12	6
80°	587	531	429	417	287	87	49	37	19	9	5
82.5°	613	643	549	508	304	77	40	30	15	7	4
85°	254	573	532	485	281	60	32	22	10	5	4
87.5°	99	164	151	135	89	30	25	18	7	4	4
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°	25	25	25	25	25	25	25	25	25	25	25
2.5°	20	19	18	18	17	17	16	16	16	16	16
5°	17	16	15	14	13	13	14	15	15	16	15
7.5°	15	14	12	13	13	11	8	7	7	8	8
10°	16	14	15	9	7	6	7	7	7	9	11
12.5°	16	17	12	11	10	9	11	10	9	10	10
15°	21	15	13	11	12	13	12	11	10	10	11
17.5°	18	16	15	17	16	13	12	13	13	12	11
20°	24	21	20	17	15	15	15	13	12	12	13
22.5°	27	23	23	21	19	15	15	14	14	13	12
25°	32	30	26	21	20	18	17	14	14	13	13
27.5°	34	30	26	24	21	17	17	14	13	13	12
30°	36	31	27	24	21	18	17	14	13	12	12
32.5°	38	32	26	23	20	17	16	14	12	11	11
35°	36	30	26	23	19	16	15	13	11	11	10
37.5°	34	28	24	21	18	15	13	11	10	9	9
40°	32	26	22	19	16	14	12	9	8	7	7
42.5°	29	24	20	17	14	11	10	8	6	5	5
45°	28	22	18	15	12	10	8	6	4	3	3
47.5°	26	20	16	13	10	8	6	4	3	2	2
50°	24	19	14	11	8	6	4	3	2	1	1
52.5°	22	17	12	9	7	5	3	2	1	1	0
55°	20	14	11	8	5	3	2	1	1	0	0
57.5°	17	12	9	6	4	2	1	1	1	0	0
60°	15	10	7	5	3	2	1	1	0	0	0
62.5°	13	9	6	4	2	1	1	1	0	0	0
65°	11	7	5	3	2	1	1	1	1	0	0
67.5°	10	6	4	3	2	1	1	1	1	1	0
70°	9	5	3	2	2	1	1	1	1	1	1
72.5°	7	4	3	2	2	1	1	1	1	1	1
75°	5	3	2	2	2	2	1	1	1	1	1
77.5°	4	3	2	2	2	2	1	2	2	2	2
80°	3	2	2	3	3	3	1	2	2	2	2
82.5°	3	3	3	3	3	3	1	3	3	3	2
85°	3	3	3	3	4	4	1	4	4	3	3
87.5°	4	3	4	4	4	5	1	4	4	4	4
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°	25	25	25	25	25
2.5°	16	17	17	17	17
5°	14	13	13	13	13
7.5°	8	8	9	9	9
10°	12	12	12	12	12
12.5°	10	11	11	11	11
15°	12	12	13	13	13
17.5°	11	11	12	12	12
20°	12	13	13	13	13
22.5°	11	11	13	13	14
25°	13	12	12	13	12
27.5°	12	12	13	13	13
30°	12	11	11	12	12
32.5°	11	11	11	11	11
35°	10	10	11	11	11
37.5°	9	8	9	9	9
40°	7	7	7	8	8
42.5°	5	5	5	5	5
45°	3	3	3	3	3
47.5°	2	1	2	2	2
50°	1	1	1	1	1
52.5°	0	1	1	1	1
55°	0	1	1	1	1
57.5°	0	0	1	1	1
60°	0	0	1	1	1
62.5°	0	0	1	1	1
65°	0	1	1	1	1
67.5°	0	1	1	1	1
70°	1	1	1	1	1
72.5°	1	1	1	1	1
75°	1	1	2	1	1
77.5°	2	2	2	2	1
80°	2	2	2	2	1
82.5°	2	2	3	2	1
85°	3	3	3	3	1
87.5°	3	3	4	4	1
90°	0	0	0	0	0

(END OF REPORT)