

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: P179390

Luminaire Tested: **UTLD-E02-LED-E-U-T4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179390
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34331)
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-T4-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3474.3 lumens
Efficiency: N/A
Efficacy: 66.7 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

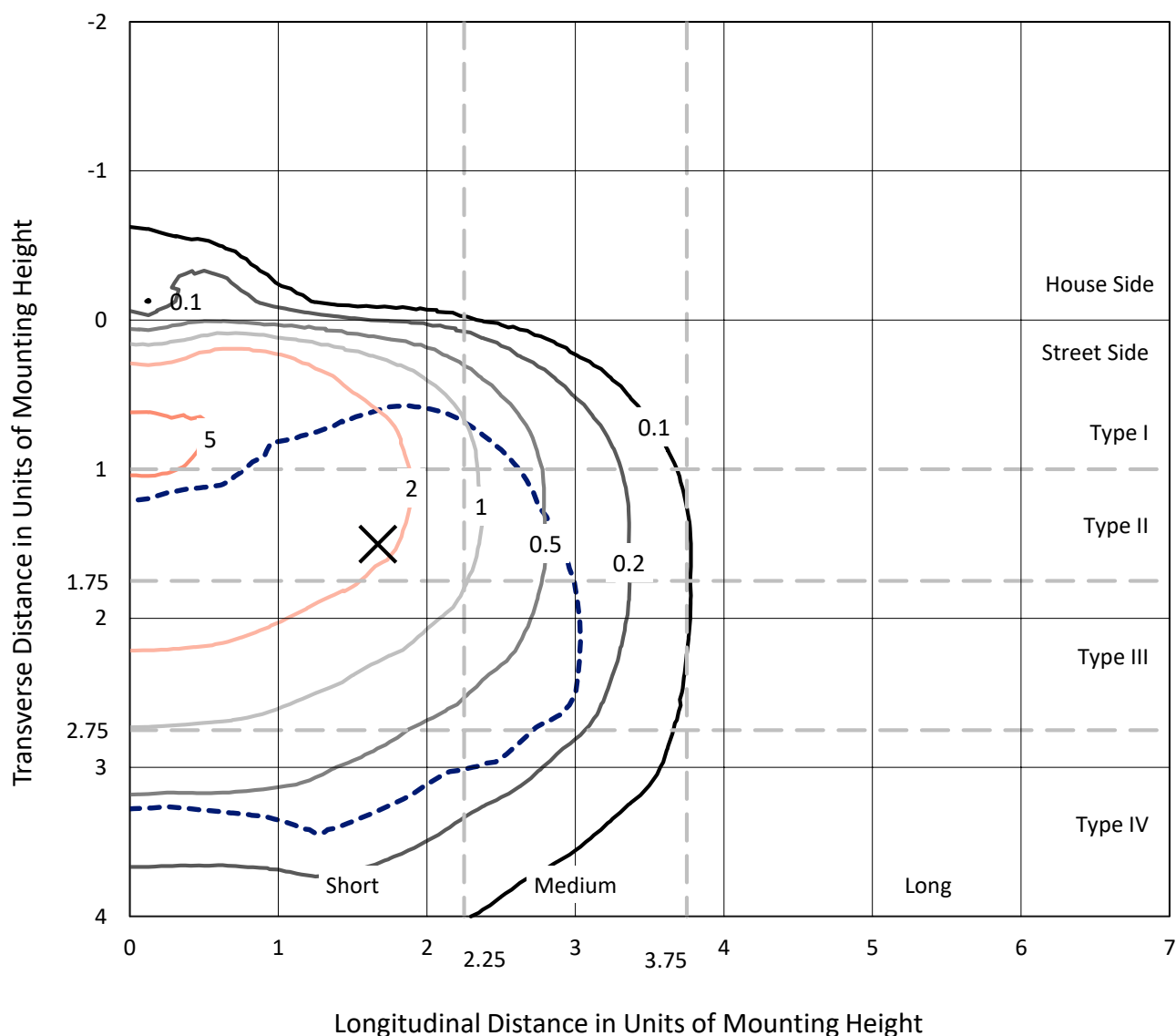


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

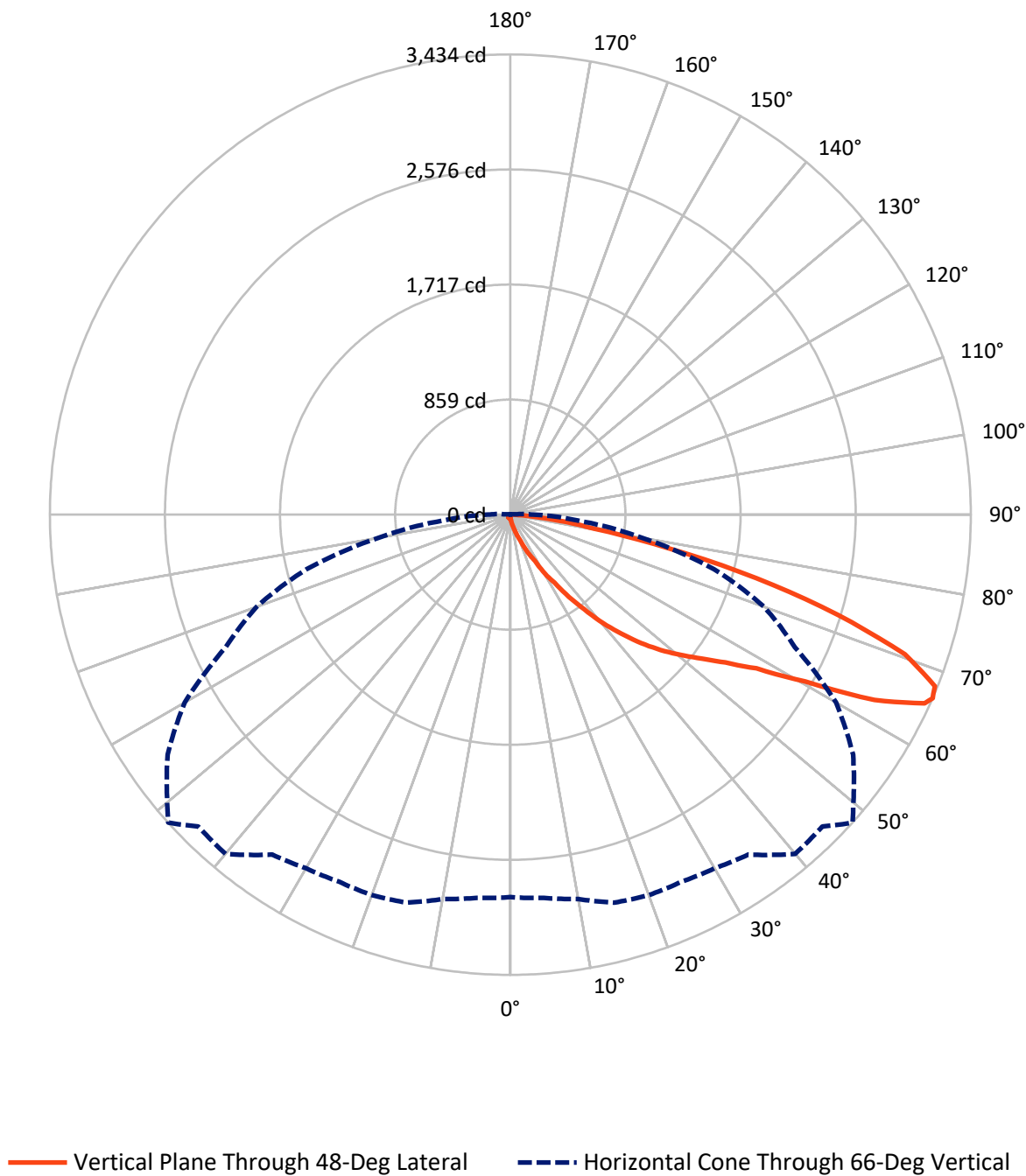


Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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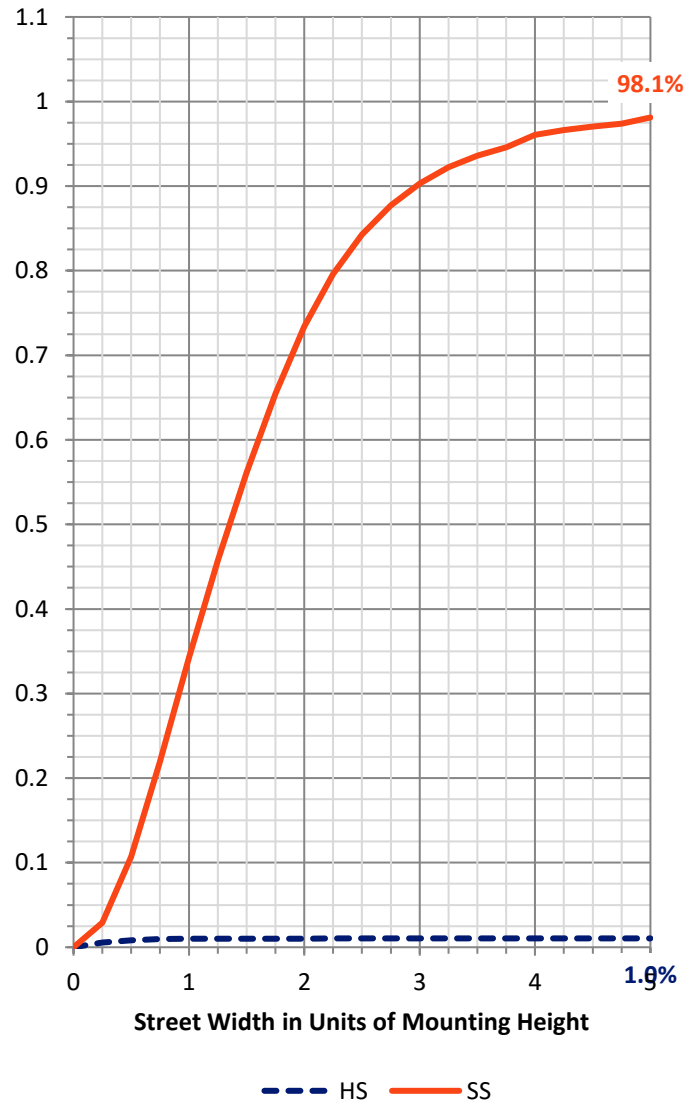
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	37.2	0.0	37.2
	% Fixture	1.1	0.0	1.1
Street Side	Lumens	3437.1	0.0	3437.1
	% Fixture	98.9	0.0	98.9
Total	Lumens	3474.3	0.0	3474.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.1
10°-20°	21.6	0.6
20°-30°	82.5	2.4
30°-40°	231.2	6.7
40°-50°	448.8	12.9
50°-60°	735.4	21.2
60°-70°	1198.7	34.5
70°-80°	675.6	19.4
80°-90°	77.3	2.2
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°	3474.3	100.0
0°-180°	3474.3	100.0

Coefficient of Utilization



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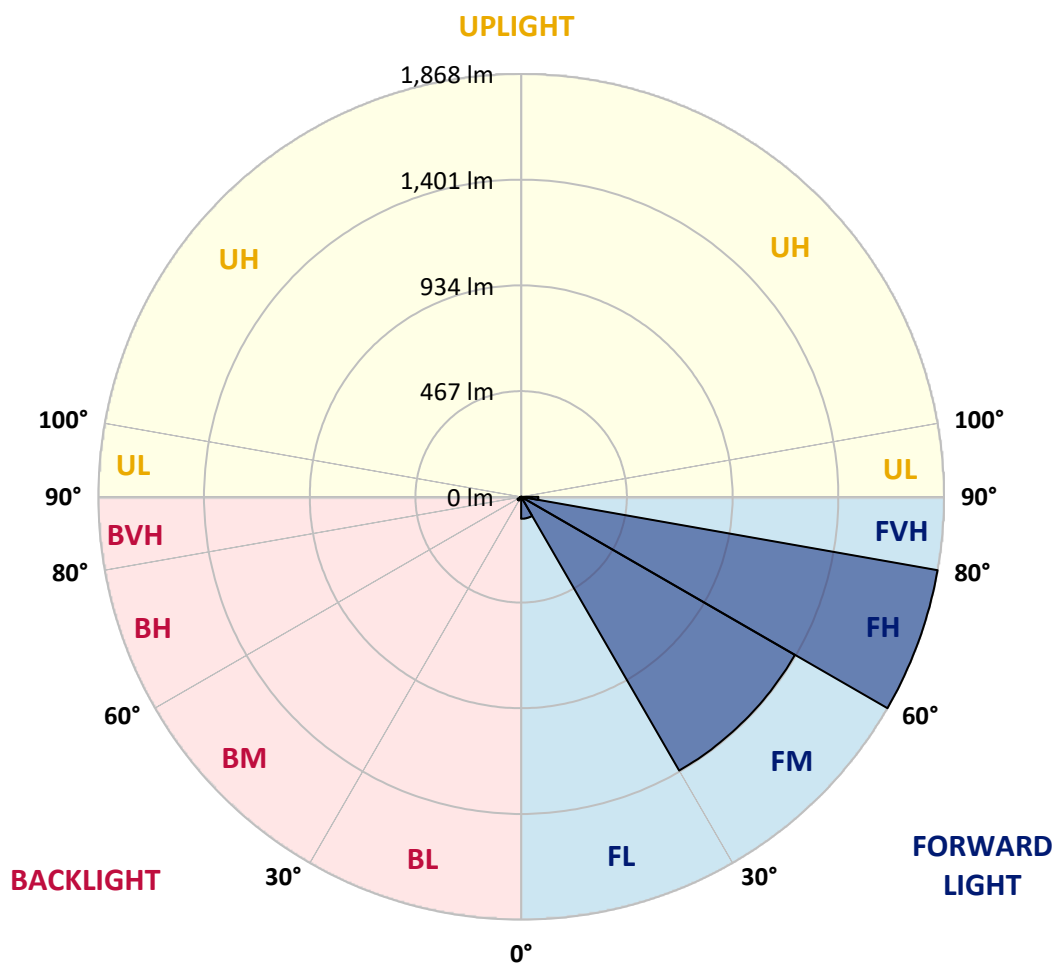
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	97.2	2.8			
FM	(30°-60°)	1396.2	40.2			
FH	(60°-80°)	1867.7	53.8			G2/5000
FVH	(80°-90°)	76.0	2.2			G1/100
BL	(0°-30°)	10.2	0.3	B0/110		
BM	(30°-60°)	19.2	0.6	B0/220		
BH	(60°-80°)	6.6	0.2	B0/110		G0/110
BVH	(80°-90°)	1.3	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°	45°	48°
0°	27	27	27	27	27	27	27	27	27	27	27
2.5°	35	35	35	35	34	33	33	32	32	32	32
5°	51	51	48	47	45	44	42	41	40	38	38
7.5°	81	80	80	79	78	76	73	71	68	52	48
10°	103	104	102	101	95	92	88	84	83	76	72
12.5°	142	143	141	140	136	133	126	121	101	93	92
15°	203	203	193	173	167	160	149	147	148	135	118
17.5°	237	238	235	230	224	217	210	186	173	162	157
20°	323	323	317	307	271	257	256	244	235	207	196
22.5°	373	378	371	364	352	356	339	288	289	263	253
25°	490	491	480	472	468	408	392	400	369	336	328
27.5°	610	617	551	536	536	523	529	472	464	423	391
30°	700	703	692	666	656	653	601	605	556	493	514
32.5°	863	868	847	837	766	739	707	708	648	638	605
35°	1061	1066	1039	954	942	904	886	816	805	753	753
37.5°	1192	1175	1150	1118	1125	1075	1017	1006	946	907	896
40°	1290	1295	1293	1277	1242	1195	1176	1149	1100	1061	1066
42.5°	1375	1385	1393	1370	1342	1322	1295	1278	1238	1189	1213
45°	1460	1468	1485	1471	1451	1448	1383	1399	1367	1328	1368
47.5°	1559	1567	1580	1581	1579	1537	1483	1507	1500	1453	1509
50°	1670	1671	1694	1710	1679	1646	1594	1606	1617	1581	1646
52.5°	1790	1803	1820	1831	1788	1772	1728	1726	1749	1712	1782
55°	1972	1978	1986	1990	1934	1940	1876	1870	1904	1864	1947
57.5°	2201	2217	2234	2226	2168	2163	2076	2047	2106	2082	2164
60°	2549	2564	2577	2586	2554	2535	2401	2380	2479	2430	2528
62.5°	2913	2929	2944	3007	2974	2950	2868	2868	2989	2953	3047
65°	2908	2931	2965	3048	3063	3052	3049	3087	3275	3263	3395
66°	2854	2870	2913	2997	3021	3022	3047	3096	3304	3291	3434
67.5°	2728	2748	2794	2894	2919	2938	3003	3042	3276	3268	3415
70°	2443	2452	2495	2599	2659	2649	2747	2762	2989	3018	3122
72.5°	1882	1870	2001	2145	2243	2205	2276	2280	2473	2470	2553
75°	1001	1008	1090	1282	1641	1652	1666	1665	1822	1821	1895
77.5°	633	650	681	739	919	1050	1101	1080	1149	1173	1211
80°	256	267	304	399	614	665	681	650	663	631	631
82.5°	85	86	98	124	315	440	453	383	377	366	366
85°	46	46	48	65	122	237	260	175	172	146	135
87.5°	4	5	4	11	19	36	42	44	50	57	46
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°	27	27	27	27	27	27	27	27	27	27	27
2.5°	32	32	32	33	33	32	31	28	27	25	23
5°	37	36	34	33	32	31	31	29	25	22	19
7.5°	47	42	39	37	34	31	30	30	24	20	18
10°	70	68	52	45	41	38	36	37	30	24	23
12.5°	90	85	76	60	47	43	39	35	30	24	21
15°	113	101	92	82	67	55	48	45	37	31	27
17.5°	152	148	114	100	86	62	54	44	39	30	27
20°	190	175	149	131	112	87	69	58	47	40	36
22.5°	241	227	199	156	133	111	79	69	54	45	40
25°	326	280	247	217	181	146	100	75	60	50	44
27.5°	392	365	324	277	212	169	126	86	67	55	47
30°	532	442	428	363	278	201	144	99	70	56	48
32.5°	618	588	518	447	365	270	181	110	75	57	51
35°	771	698	661	587	475	346	217	131	75	58	50
37.5°	929	852	781	705	574	412	262	148	80	55	47
40°	1058	984	887	813	657	481	316	159	77	53	43
42.5°	1204	1116	1010	930	753	575	360	187	79	51	39
45°	1341	1246	1139	1027	846	665	411	203	86	50	35
47.5°	1469	1369	1268	1111	961	760	489	242	92	47	32
50°	1584	1489	1377	1199	1055	831	564	270	99	43	29
52.5°	1715	1617	1471	1292	1142	922	631	308	108	39	26
55°	1877	1754	1613	1445	1244	1039	707	344	120	35	23
57.5°	2078	1974	1830	1633	1397	1154	799	390	131	32	21
60°	2444	2309	2173	1941	1625	1338	910	450	149	29	19
62.5°	2963	2816	2596	2260	1922	1512	1019	510	169	26	18
65°	3293	3091	2797	2360	2031	1592	1028	509	171	24	16
66°	3340	3120	2804	2342	2015	1572	1004	502	168	22	15
67.5°	3335	3092	2752	2267	1935	1501	926	467	159	21	14
70°	3074	2832	2473	2008	1692	1297	796	401	136	18	12
72.5°	2553	2324	1999	1592	1364	1026	610	315	107	15	10
75°	1886	1667	1420	1106	898	649	380	204	70	12	8
77.5°	1177	992	753	563	419	270	134	69	30	10	6
80°	621	506	365	264	194	121	62	32	16	8	4
82.5°	358	301	223	166	130	85	46	26	12	5	3
85°	129	111	124	94	71	47	33	21	8	4	3
87.5°	48	39	35	30	29	29	27	16	5	3	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°	27	27	27	27	27	27	27	27	27	27	27
2.5°	22	20	20	19	19	18	18	18	18	18	19
5°	18	17	17	17	16	16	18	19	20	21	20
7.5°	18	17	16	17	19	15	12	11	10	11	11
10°	20	19	21	14	10	9	10	10	10	13	16
12.5°	20	21	16	14	14	13	16	14	14	14	14
15°	27	20	17	15	17	18	18	17	15	14	17
17.5°	23	21	20	24	22	19	17	19	20	18	16
20°	32	29	28	24	22	22	23	19	18	18	20
22.5°	34	31	32	30	29	23	22	21	21	19	19
25°	41	42	37	32	29	27	25	21	21	19	20
27.5°	44	41	37	35	32	26	25	22	20	20	18
30°	46	42	39	35	31	28	25	21	19	19	18
32.5°	49	44	37	33	30	25	24	20	18	16	16
35°	45	40	35	31	26	23	21	19	16	15	14
37.5°	40	35	31	27	24	21	19	16	14	13	12
40°	36	30	27	23	21	18	16	13	11	10	9
42.5°	32	26	23	20	17	15	13	10	8	7	6
45°	28	23	19	17	14	12	10	7	5	4	3
47.5°	25	20	17	14	12	9	7	4	3	2	1
50°	22	17	14	12	9	7	5	3	2	1	1
52.5°	19	15	13	10	8	5	3	2	1	1	0
55°	17	14	11	8	6	4	2	1	1	0	0
57.5°	16	13	9	6	5	3	2	1	1	0	0
60°	15	11	7	5	4	2	1	1	1	0	0
62.5°	14	9	6	4	3	2	1	1	1	1	0
65°	11	7	4	3	2	2	1	1	1	1	1
66°	10	6	4	3	2	2	1	1	1	1	1
67.5°	9	6	3	3	2	2	1	1	1	1	1
70°	7	4	3	2	2	2	1	1	1	1	1
72.5°	6	4	3	2	2	2	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	1	1	1	1
80°	3	3	2	2	2	2	1	2	2	1	1
82.5°	3	2	2	2	2	3	1	2	2	2	2
85°	3	2	2	3	3	3	1	3	3	3	2
87.5°	3	3	3	3	4	4	2	4	4	4	3
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°	27	27	27	27	27
2.5°	19	20	20	20	20
5°	20	18	19	19	19
7.5°	12	12	12	12	12
10°	17	17	17	17	17
12.5°	15	16	16	16	16
15°	18	19	19	19	20
17.5°	16	16	18	17	18
20°	19	19	19	19	19
22.5°	17	17	19	20	20
25°	19	18	18	18	18
27.5°	18	19	19	19	19
30°	17	16	17	17	18
32.5°	16	16	16	16	16
35°	14	14	14	15	15
37.5°	11	11	12	12	12
40°	9	8	8	9	9
42.5°	6	5	5	5	5
45°	3	2	2	2	2
47.5°	1	1	1	1	1
50°	0	0	0	0	0
52.5°	0	0	0	0	0
55°	0	0	0	0	0
57.5°	0	0	0	0	0
60°	0	0	0	0	0
62.5°	0	0	0	0	0
65°	0	0	0	0	0
66°	1	0	0	0	0
67.5°	1	0	0	0	0
70°	1	0	0	0	0
72.5°	1	1	0	0	0
75°	1	1	0	0	0
77.5°	1	1	1	0	0
80°	1	1	1	0	0
82.5°	1	1	1	1	0
85°	2	2	2	2	0
87.5°	3	3	3	3	0
90°	0	0	0	0	0

(END OF REPORT)