

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: P179270

Luminaire Tested: **UTLD-E02-LED-E-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179270
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34325)
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-SL3-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 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: 3096 lumens
Efficiency: N/A
Efficacy: 59.4 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



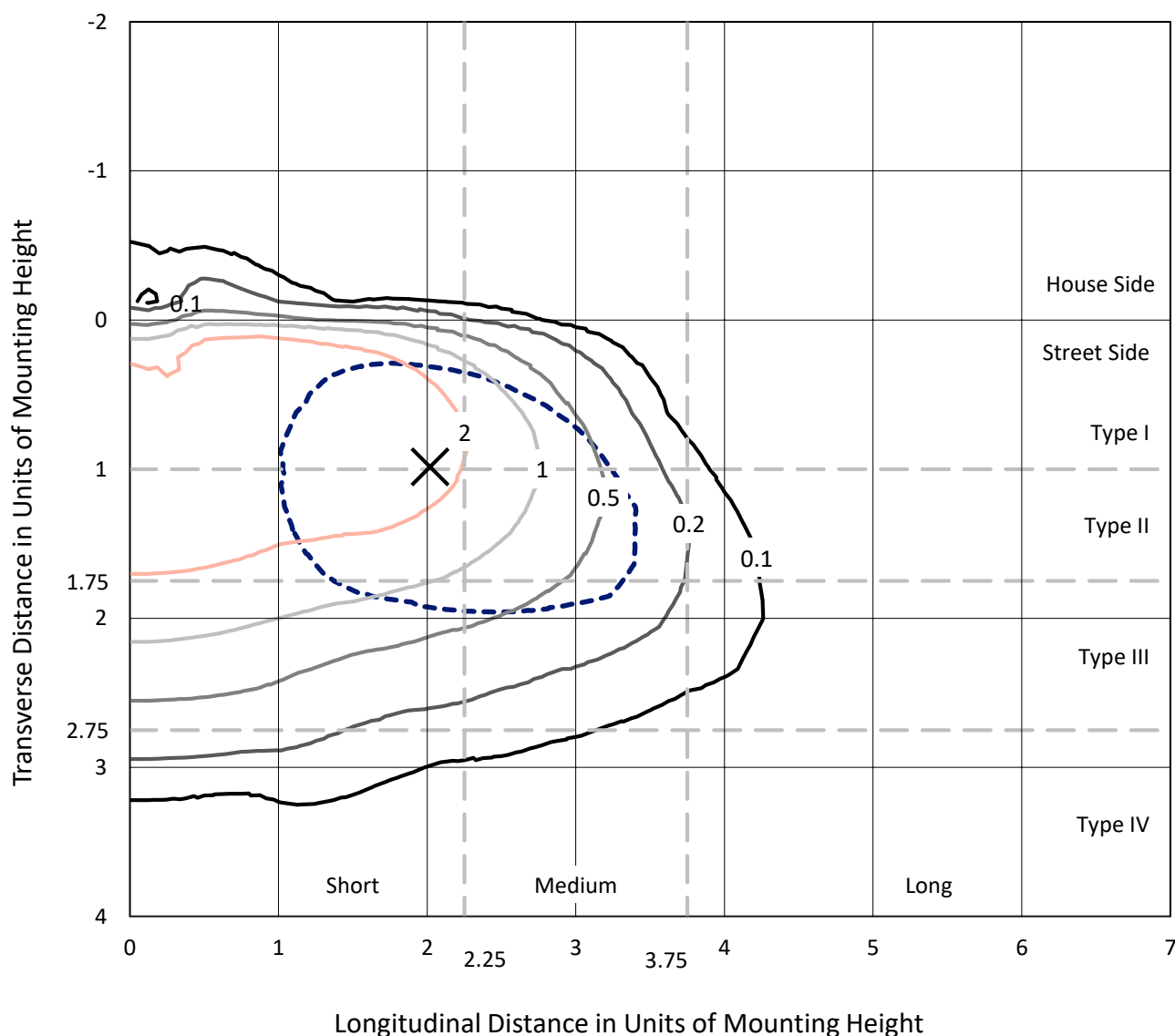
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

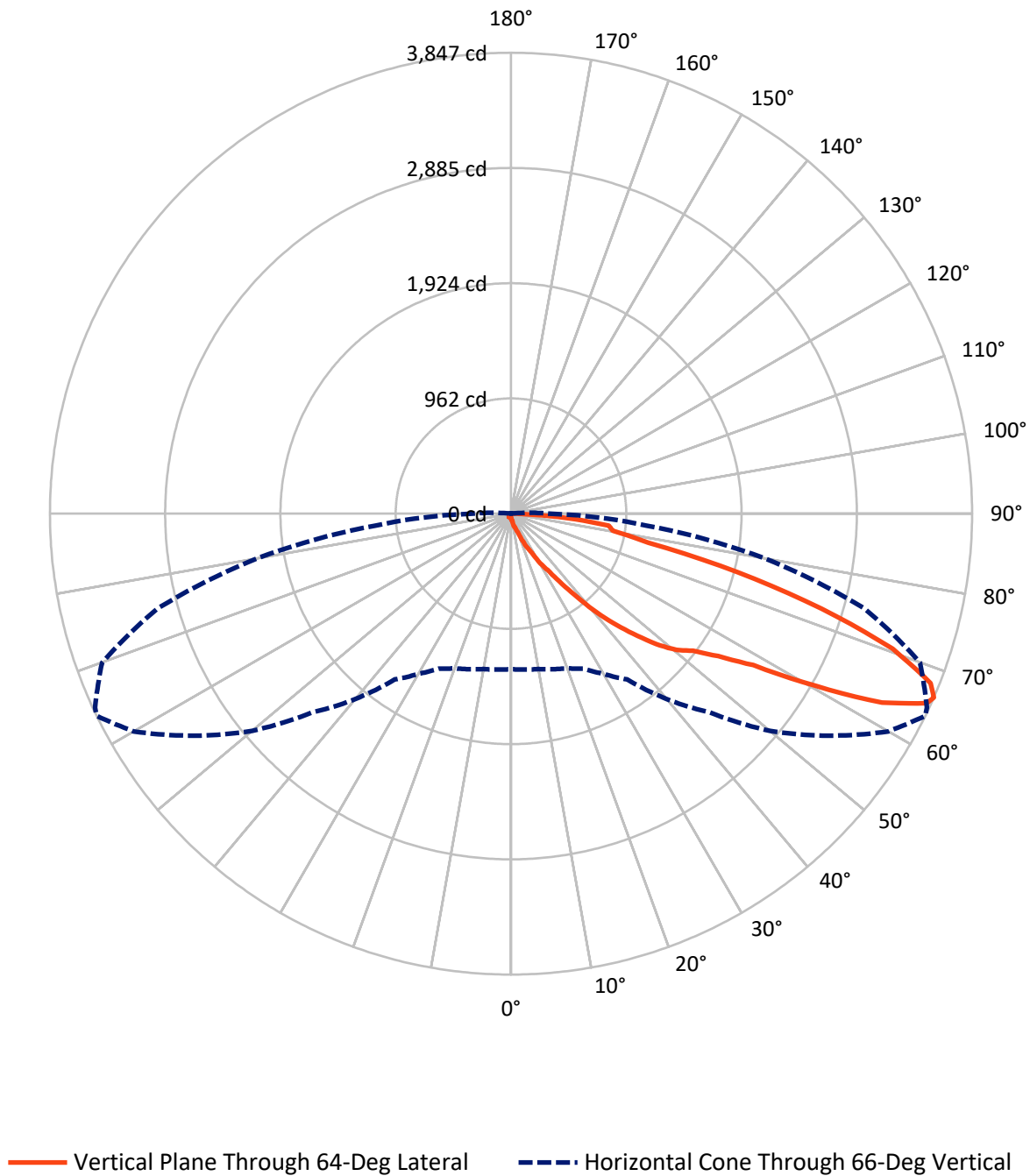


Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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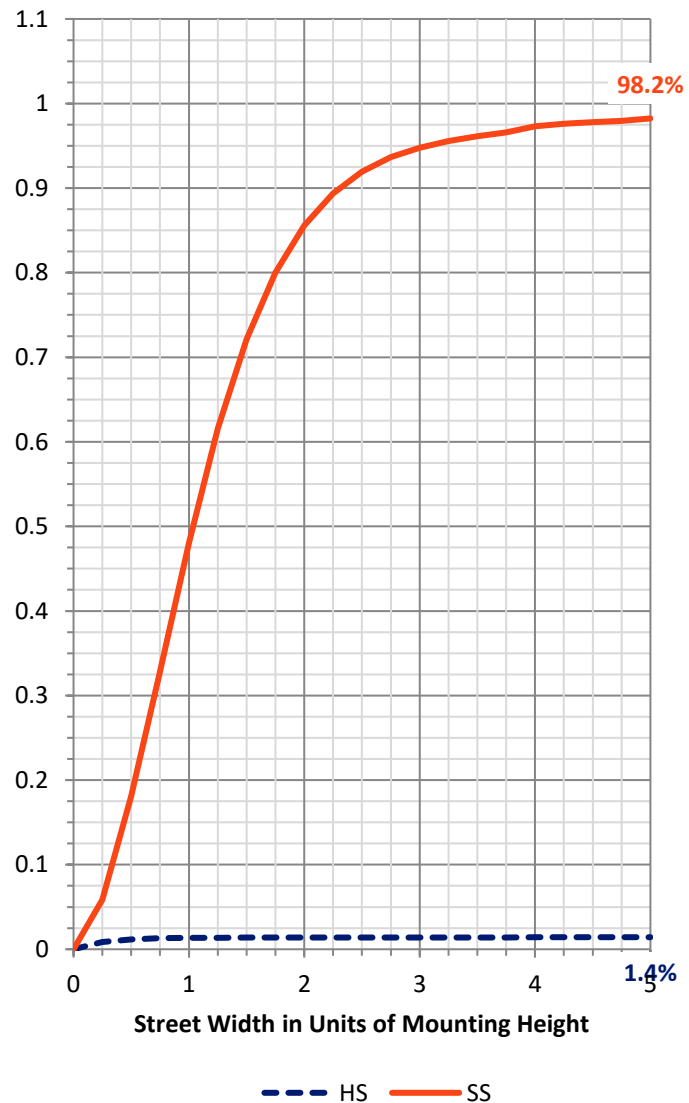
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	45.2	0.0	45.2
	% Fixture	1.5	0.0	1.5
Street Side	Lumens	3050.8	0.0	3050.8
	% Fixture	98.5	0.0	98.5
Total	Lumens	3096.0	0.0	3096.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.3	0.1
10°-20°	24.2	0.8
20°-30°	74.0	2.4
30°-40°	196.7	6.4
40°-50°	457.5	14.8
50°-60°	780.1	25.2
60°-70°	1029.9	33.3
70°-80°	462.1	14.9
80°-90°	67.2	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°	3096.0	100.0
0°-180°	3096.0	100.0

Coefficient of Utilization



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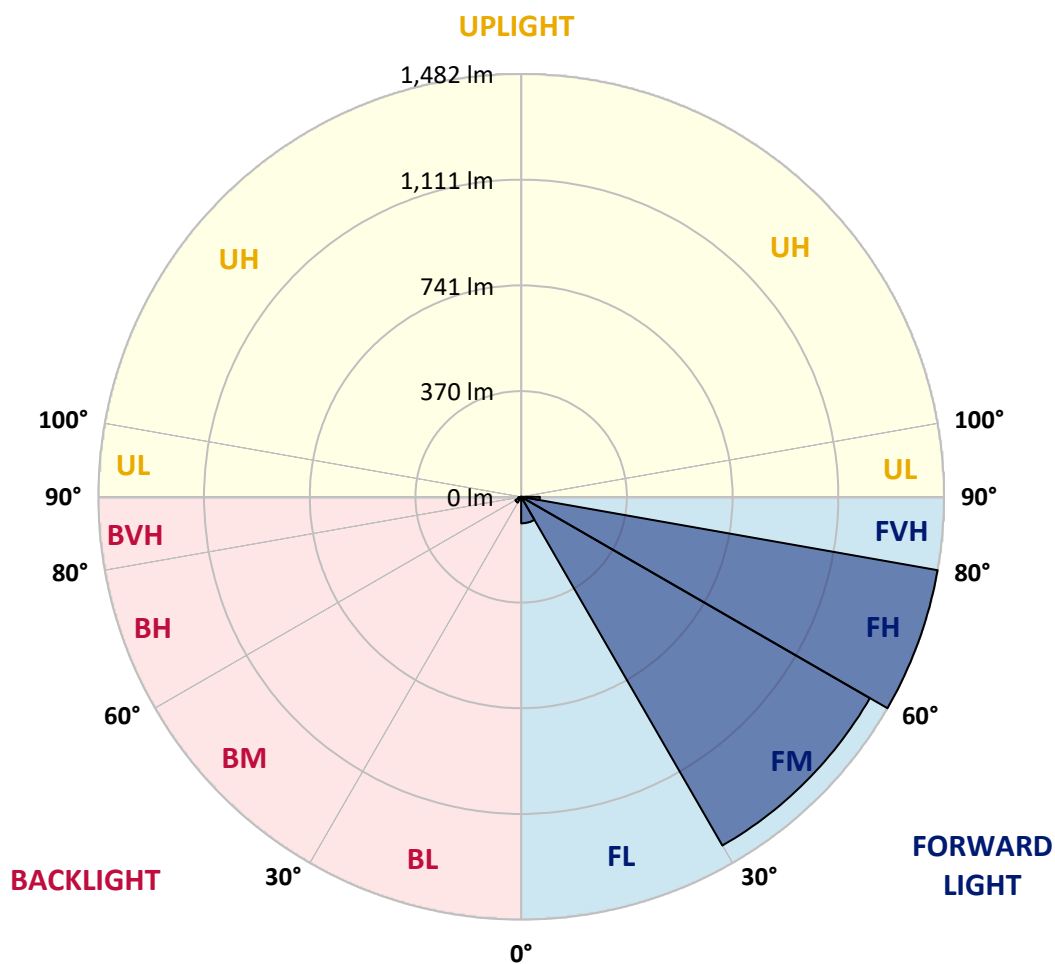
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	92.9	3.0			
FM	(30°-60°)	1410.9	45.6			
FH	(60°-80°)	1481.6	47.9			G1/1800
FVH	(80°-90°)	65.4	2.1			G1/100
BL	(0°-30°)	9.5	0.3	B0/110		
BM	(30°-60°)	23.5	0.8	B0/220		
BH	(60°-80°)	10.4	0.3	B0/110		G0/110
BVH	(80°-90°)	1.8	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°	37	37	37	37	37	37	37	37	37	37	37
2.5°	53	53	53	52	51	51	50	49	49	49	48
5°	72	69	67	64	62	62	60	59	58	57	55
7.5°	107	106	104	103	102	101	98	97	94	86	66
10°	136	131	131	124	120	116	112	110	110	103	98
12.5°	163	164	165	166	163	161	158	154	127	121	121
15°	217	215	212	197	175	171	163	164	178	169	144
17.5°	225	225	223	220	216	209	210	204	185	181	180
20°	290	290	286	276	253	220	227	219	220	216	205
22.5°	315	316	308	297	281	279	263	230	240	234	237
25°	399	397	386	363	342	293	270	275	261	253	290
27.5°	491	489	449	403	370	336	320	291	297	304	316
30°	541	536	516	481	441	397	342	334	327	333	416
32.5°	654	653	626	584	535	452	406	390	373	423	483
35°	780	776	756	694	630	567	533	482	497	527	620
37.5°	879	879	852	797	768	716	672	664	641	685	795
40°	935	941	947	928	900	878	854	838	847	868	980
42.5°	1027	1038	1057	1048	1035	1040	1005	1014	1030	1062	1177
45°	1161	1170	1191	1207	1229	1217	1151	1198	1232	1253	1375
47.5°	1294	1311	1339	1363	1398	1386	1349	1369	1403	1425	1566
50°	1410	1426	1456	1492	1507	1536	1522	1532	1572	1590	1728
52.5°	1497	1505	1531	1572	1588	1633	1639	1638	1716	1744	1888
55°	1543	1551	1576	1608	1629	1690	1684	1701	1817	1870	2051
57.5°	1552	1562	1582	1622	1639	1711	1697	1737	1889	1998	2224
60°	1535	1546	1563	1601	1625	1694	1715	1770	1962	2137	2445
62.5°	1462	1479	1489	1530	1553	1611	1707	1809	2043	2268	2680
65°	1350	1359	1373	1403	1430	1488	1616	1764	2064	2350	2817
66°	1298	1306	1317	1344	1373	1427	1543	1689	2018	2346	2821
67.5°	1197	1201	1221	1242	1274	1308	1397	1542	1882	2245	2746
70°	808	821	876	949	994	989	1045	1173	1473	1825	2369
72.5°	380	384	391	420	586	620	659	769	995	1271	1729
75°	311	315	327	342	377	418	432	475	639	788	1057
77.5°	106	109	117	139	213	267	315	392	481	560	693
80°	44	47	51	47	55	91	115	168	293	430	549
82.5°	24	25	28	26	32	42	45	49	71	144	308
85°	7	7	8	13	19	28	28	27	27	41	77
87.5°	2	2	3	4	6	10	12	12	13	17	25
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°	37	37	37	37	37	37	37	37	37	37	37
2.5°	48	48	48	48	47	47	44	40	36	32	29
5°	54	51	50	50	47	47	46	43	33	28	25
7.5°	61	57	55	55	52	48	46	44	34	27	24
10°	96	80	69	66	62	57	54	54	40	32	29
12.5°	117	111	104	99	72	65	62	54	42	31	27
15°	134	125	117	115	114	87	75	68	49	40	33
17.5°	193	154	141	140	127	96	83	68	53	40	33
20°	204	189	168	172	174	152	119	93	70	53	40
22.5°	262	254	241	237	199	174	129	109	76	53	40
25°	300	295	312	309	287	242	177	130	95	61	45
27.5°	374	398	365	375	333	291	233	161	101	64	46
30°	425	459	481	475	421	339	259	182	110	64	48
32.5°	534	557	561	549	517	428	310	209	115	66	51
35°	635	693	692	694	630	527	375	225	123	66	51
37.5°	830	862	858	857	786	644	442	272	132	66	50
40°	1018	1057	1056	1045	970	784	555	310	141	68	47
42.5°	1200	1218	1248	1252	1124	945	670	362	151	70	45
45°	1390	1370	1427	1423	1305	1116	768	423	167	68	42
47.5°	1582	1578	1627	1591	1503	1320	908	488	177	65	39
50°	1752	1784	1788	1735	1690	1520	1093	575	197	60	37
52.5°	1901	1953	1901	1890	1888	1679	1249	653	216	55	34
55°	2087	2125	2097	2101	2121	1949	1441	797	249	50	31
57.5°	2325	2401	2385	2455	2459	2331	1714	961	288	46	28
60°	2641	2828	2919	2997	2907	2747	2017	1097	319	42	25
62.5°	3004	3312	3474	3562	3314	2972	2140	1155	326	37	22
65°	3212	3597	3813	3819	3582	3040	2158	1153	319	32	19
66°	3231	3634	3847	3829	3630	3048	2146	1135	312	30	18
67.5°	3162	3565	3776	3742	3601	3003	2067	1089	298	27	17
70°	2802	3164	3378	3332	3342	2738	1735	929	260	22	15
72.5°	2209	2616	2710	2676	2737	2025	1226	652	194	18	13
75°	1482	1889	1954	1927	1735	1020	487	275	101	15	11
77.5°	893	1190	1173	1176	929	414	92	64	34	12	8
80°	653	826	860	881	729	271	51	38	20	9	6
82.5°	530	740	823	831	660	215	39	30	15	7	4
85°	145	378	467	443	281	73	28	20	10	5	4
87.5°	34	86	109	112	80	27	24	19	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°	37	37	37	37	37	37	37	37	37	37	37
2.5°	28	27	26	25	25	24	24	24	23	24	24
5°	24	23	22	21	20	20	20	21	22	22	22
7.5°	23	21	20	20	20	14	10	9	9	9	10
10°	24	21	22	12	8	8	8	8	8	11	13
12.5°	25	23	13	12	11	10	12	11	11	12	12
15°	29	18	14	12	14	15	14	13	11	11	13
17.5°	24	18	16	18	18	15	13	15	15	14	13
20°	29	25	22	19	17	16	17	15	14	14	15
22.5°	31	27	28	25	23	18	17	15	16	15	15
25°	38	38	33	26	24	21	20	16	16	14	15
27.5°	41	37	33	30	27	21	20	17	15	15	13
30°	43	38	34	30	26	23	20	17	15	14	14
32.5°	46	40	33	28	25	21	20	16	14	12	12
35°	43	37	32	28	23	20	18	15	12	12	11
37.5°	40	34	29	26	22	18	16	13	11	10	10
40°	38	32	27	23	19	16	14	11	9	8	8
42.5°	35	29	24	20	17	14	12	9	7	6	6
45°	33	27	22	18	14	12	9	7	5	4	4
47.5°	31	25	19	15	12	10	7	5	3	3	2
50°	28	22	17	13	10	8	5	3	2	1	1
52.5°	26	19	15	11	8	6	4	2	1	1	1
55°	23	17	13	9	7	4	2	1	1	1	1
57.5°	20	14	11	8	5	3	2	1	1	1	0
60°	17	12	9	6	4	2	1	1	1	1	0
62.5°	15	10	7	5	3	2	1	1	1	1	0
65°	13	8	6	4	2	2	1	1	1	1	0
66°	12	8	5	3	2	2	1	1	1	1	0
67.5°	11	7	5	3	2	2	1	1	1	1	1
70°	10	6	4	3	2	1	1	1	1	1	1
72.5°	9	5	3	3	2	2	1	1	1	1	1
75°	6	3	3	2	2	2	1	2	2	2	2
77.5°	4	3	2	2	2	2	1	2	2	2	2
80°	4	3	3	3	3	3	1	3	3	3	2
82.5°	3	3	3	3	4	4	1	4	4	3	3
85°	3	3	3	4	4	5	1	4	4	4	4
87.5°	3	4	4	4	5	5	2	5	5	5	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°	37	37	37	37	37
2.5°	24	25	25	26	26
5°	20	20	18	18	17
7.5°	10	10	11	11	11
10°	14	15	15	15	16
12.5°	12	13	14	14	14
15°	14	15	16	16	16
17.5°	13	13	14	14	15
20°	15	15	15	15	15
22.5°	13	13	15	16	16
25°	15	14	14	15	14
27.5°	13	14	15	15	15
30°	13	13	13	13	14
32.5°	13	13	13	13	13
35°	11	12	12	13	13
37.5°	10	10	11	11	11
40°	8	8	8	9	9
42.5°	6	6	6	7	6
45°	4	4	4	4	4
47.5°	2	2	3	3	3
50°	1	1	2	2	2
52.5°	1	1	1	2	2
55°	1	1	1	1	2
57.5°	0	1	1	1	1
60°	0	1	1	1	1
62.5°	0	1	1	1	1
65°	1	1	1	1	1
66°	1	1	1	1	1
67.5°	1	1	1	1	1
70°	1	1	1	1	2
72.5°	1	1	2	1	2
75°	2	2	2	2	2
77.5°	2	2	2	2	2
80°	2	3	3	2	2
82.5°	3	3	3	3	2
85°	3	3	4	4	2
87.5°	4	4	4	4	2
90°	0	0	0	0	0

(END OF REPORT)