

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: McGRAW-EDISON

Report Number: P21002

Luminaire Tested: **TRR-50-LED-E1-2-XX**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P21002
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TRR-50-LED-E1-2-XX
Description: TRADITIONARE LED POST TOP FIXTURE - TYPE 2 DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2900.5 lumens
Efficiency: N/A
Efficacy: 50.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.38' x L: 1.38' x H: 1')
IES Classification: Type IV - V Long - Non-Cutoff
BUG Rating: B1 - U3 - G3

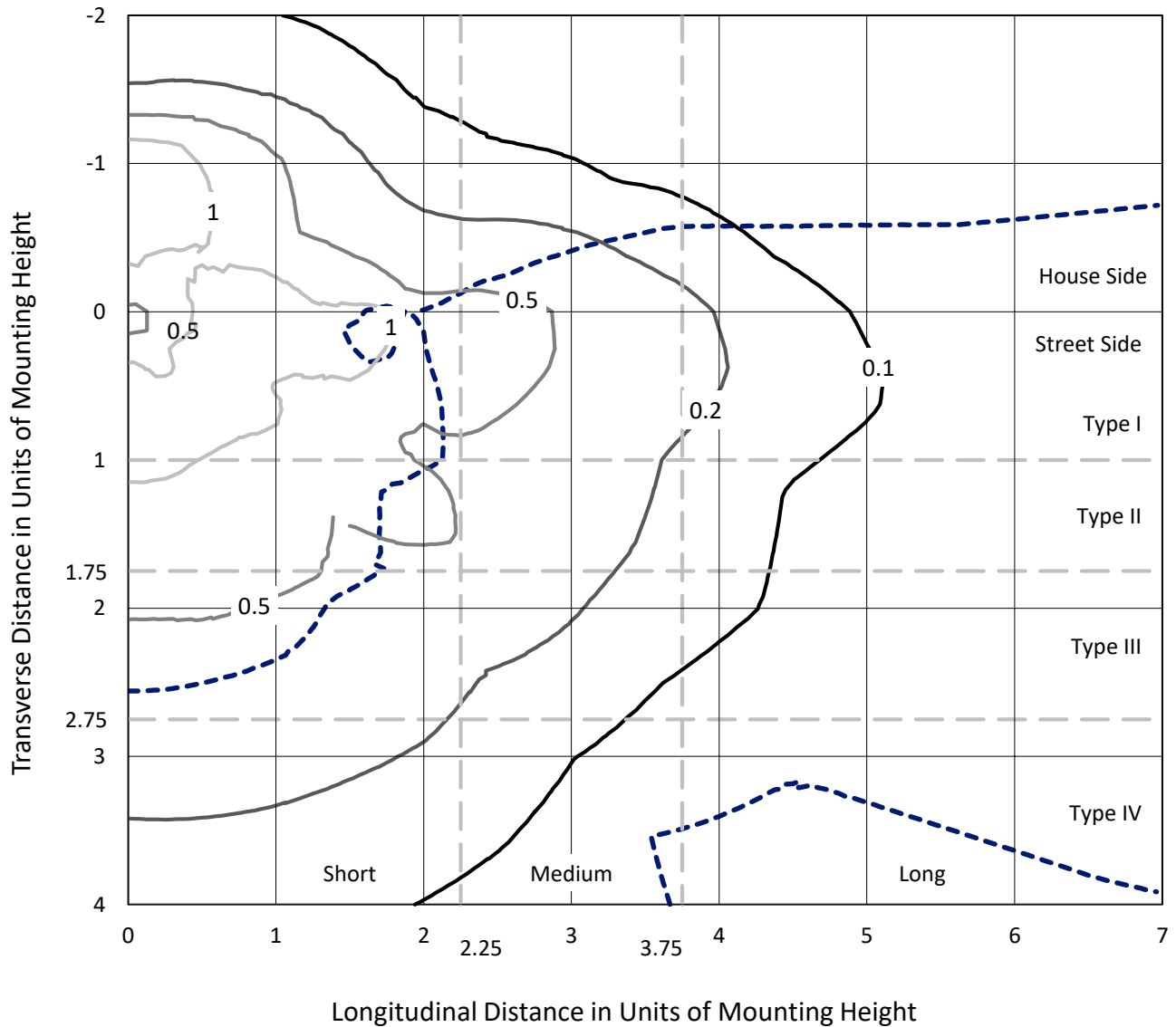
Input Watts (W): 57.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

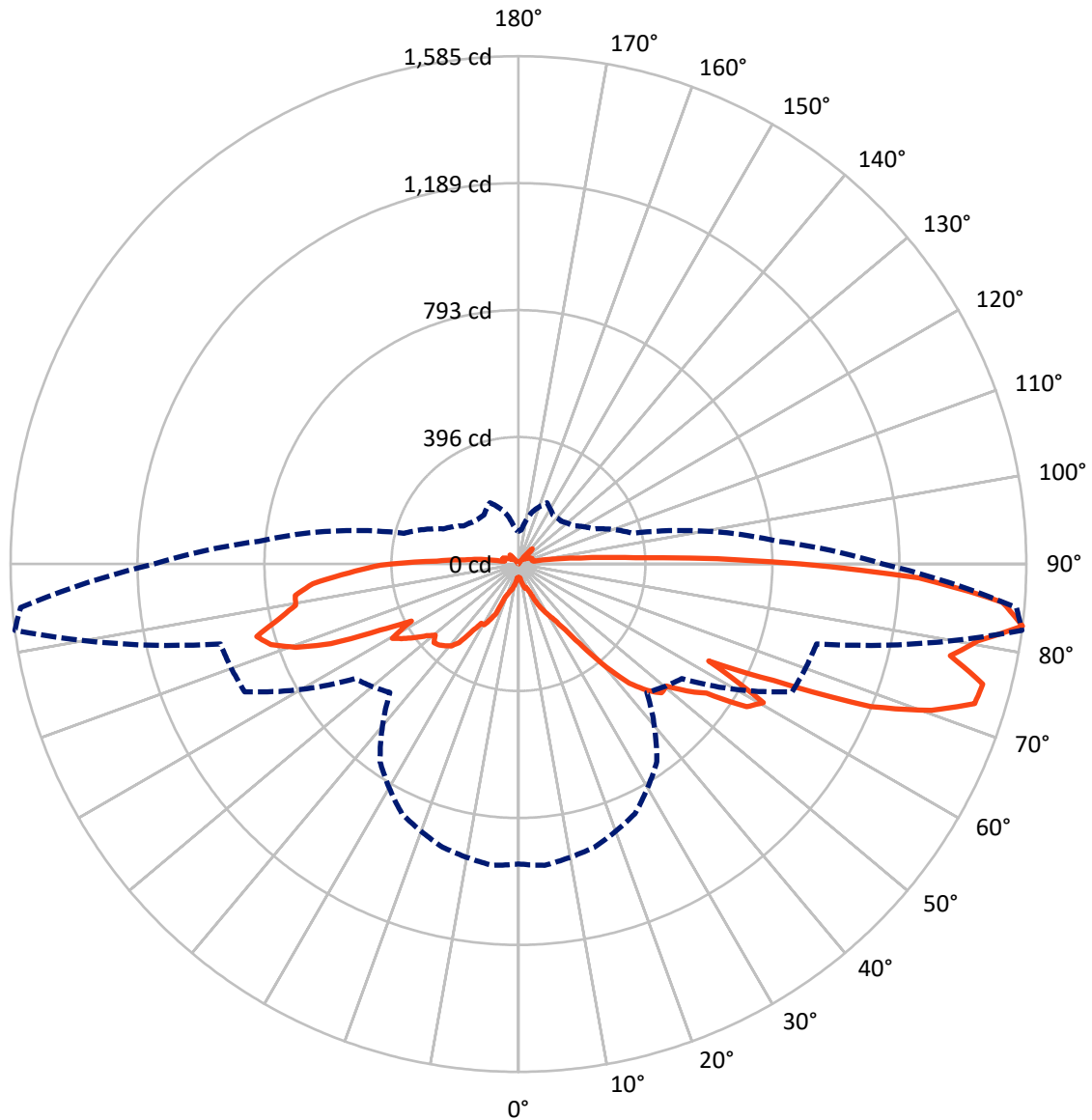
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2 fc
 Type IV - V Long - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 82.5-Deg Lateral - - - Horizontal Cone Through 82.5-Deg Vertical

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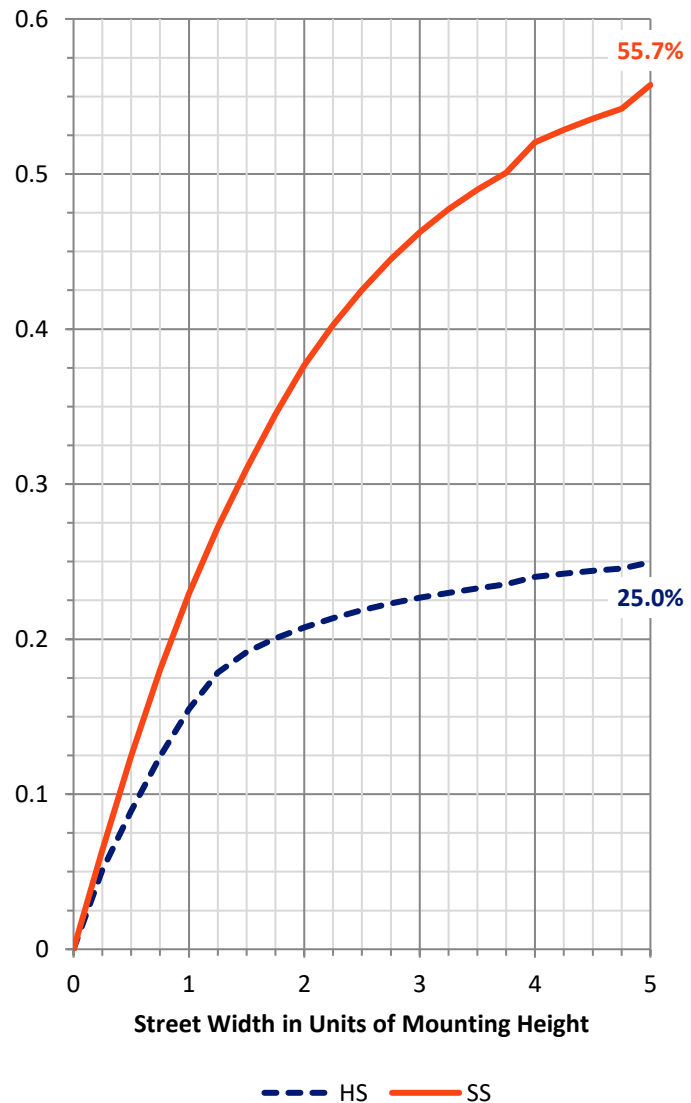
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	776.4	145.8	922.2
	% Fixture	26.8	5.0	31.8
Street Side	Lumens	1815.9	162.4	1978.3
	% Fixture	62.6	5.6	68.2
Total	Lumens	2592.4	308.2	2900.5
	% Fixture	89.4	10.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	0.2
10°-20°	25.0	0.9
20°-30°	68.7	2.4
30°-40°	158.2	5.5
40°-50°	251.6	8.7
50°-60°	332.0	11.4
60°-70°	490.3	16.9
70°-80°	715.7	24.7
80°-90°	546.0	18.8
90°-100°	159.8	5.5
100°-110°	55.3	1.9
110°-120°	42.5	1.5
120°-130°	27.2	0.9
130°-140°	18.8	0.6
140°-150°	4.4	0.2
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2592.4	89.4
0°-180°	2900.5	100.0



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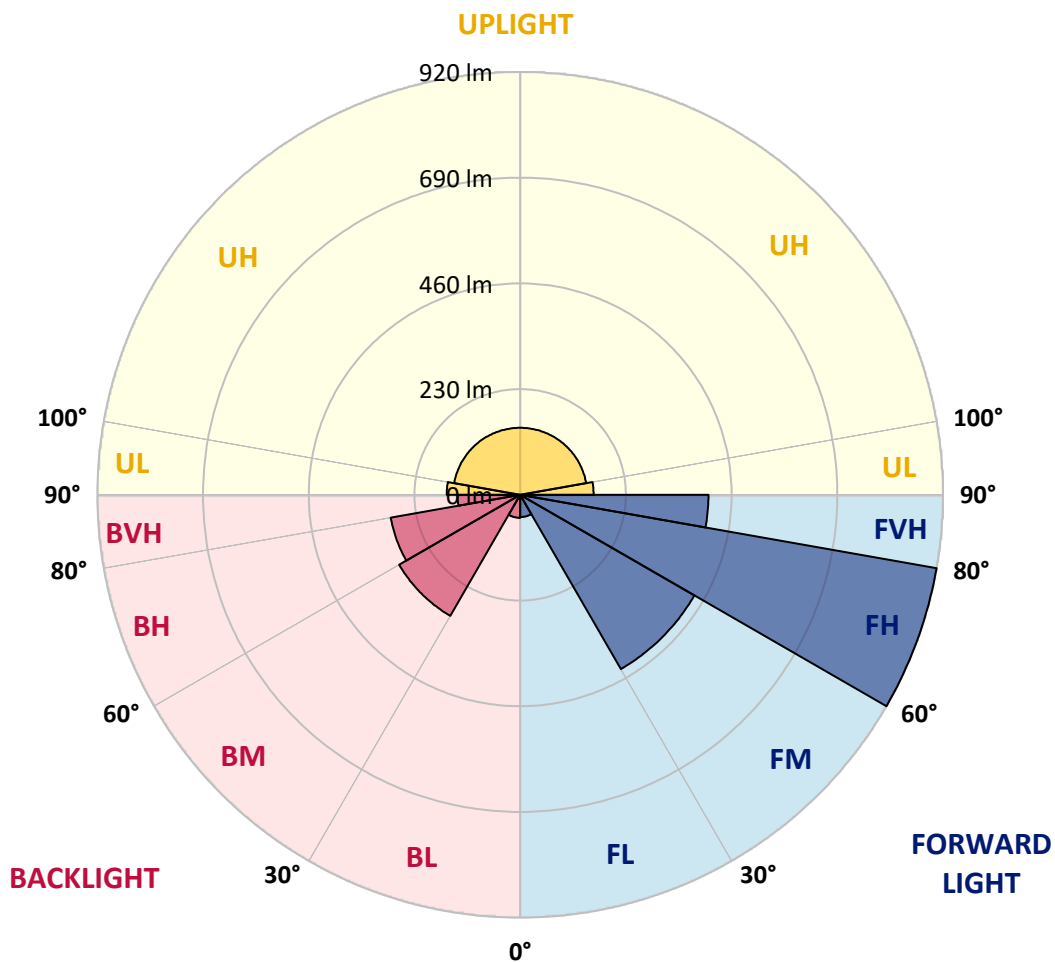
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	48.5	1.7			
FM (30°-60°)	437.8	15.1			
FH (60°-80°)	920.0	31.7			G1/1800
FVH (80°-90°)	409.7	14.1			G3/500
BL (0°-30°)	50.2	1.7	B0/110		
BM (30°-60°)	304.0	10.5	B1/1000		
BH (60°-80°)	286.0	9.9	B1/500		G1/500
BVH (80°-90°)	136.3	4.7			G2/225
UL (90°-100°)	159.8	5.5		U3/500	
UH (100°-180°)	145.8	5.0		U3/500	

BUG Rating: B1-U3-G3

Type IV V Long





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82.5°	85°
0°	43	43	43	43	43	43	43	43	43	43	43
2.5°	46	47	45	38	36	37	40	41	41	42	43
5°	46	46	45	42	42	42	42	43	43	43	44
7.5°	47	48	47	44	45	49	51	49	49	50	51
10°	46	46	46	43	46	52	61	59	60	61	61
12.5°	53	53	52	49	49	55	65	65	70	71	72
15°	83	84	81	74	70	65	72	71	75	79	80
17.5°	110	110	111	107	101	90	84	87	75	77	78
20°	138	136	133	134	127	118	99	105	86	86	86
22.5°	123	121	117	112	119	129	126	125	104	104	105
25°	136	132	121	108	115	140	176	156	135	136	138
27.5°	186	182	163	138	132	166	230	214	161	161	164
30°	234	229	212	190	176	168	251	277	200	184	202
32.5°	266	264	251	230	221	202	242	320	255	209	228
35°	279	280	270	254	250	235	234	322	318	252	265
37.5°	290	291	279	267	266	261	260	344	370	326	337
40°	308	310	296	289	280	291	302	344	401	424	397
42.5°	322	324	310	303	304	307	344	321	410	508	455
45°	330	331	321	315	320	315	367	312	428	563	525
47.5°	337	338	337	329	330	339	381	304	432	601	583
50°	365	367	367	345	339	371	411	331	437	599	596
52.5°	402	401	381	358	357	403	430	355	532	658	654
55°	382	380	390	389	374	426	462	399	571	712	733
57.5°	455	452	454	417	385	425	492	499	687	840	889
60°	657	642	568	487	428	442	574	531	728	878	903
62.5°	674	669	677	634	532	512	666	543	594	667	684
65°	581	590	658	671	685	627	810	607	730	875	894
67.5°	687	683	686	698	791	763	1046	817	975	1188	1214
70°	880	882	889	877	910	888	1217	1043	1181	1368	1394
72.5°	940	947	966	967	1007	921	1267	1173	1240	1489	1516
75°	861	889	930	952	973	889	1061	1191	1169	1497	1552
77.5°	823	842	894	948	924	824	892	1136	1043	1378	1412
80°	855	870	894	920	871	724	759	1065	957	1454	1442
82.5°	936	944	915	860	753	567	623	943	963	1585	1560
85°	1000	999	888	721	540	398	492	705	1002	1515	1447
87.5°	844	829	689	504	332	250	380	526	1008	1250	1135
90°	537	519	427	302	198	164	282	392	848	788	675
92.5°	314	303	250	173	117	114	195	233	566	367	334
95°	165	158	130	90	74	84	141	157	353	196	197
97.5°	48	48	51	51	57	62	99	102	153	114	117
100°	34	34	38	40	48	52	76	63	53	51	53
102.5°	32	32	35	37	44	48	61	54	48	45	48
105°	31	32	34	34	41	47	52	49	47	44	46
107.5°	31	31	32	32	40	50	48	47	50	44	46
110°	29	29	30	29	39	58	51	48	50	46	48



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82.5°	85°
112.5°	27	27	26	26	34	56	50	42	43	45	46
115°	26	26	24	24	31	47	47	36	39	42	43
117.5°	26	26	24	23	29	40	47	33	35	39	40
120°	25	25	23	21	28	35	44	30	32	36	37
122.5°	23	23	22	19	25	31	37	29	29	34	36
125°	21	21	19	16	21	26	30	28	27	30	32
127.5°	20	20	18	13	17	22	24	25	25	26	27
130°	19	19	17	11	14	19	20	22	24	24	24
132.5°	21	21	19	13	14	16	18	22	25	24	24
135°	36	36	32	22	16	11	26	32	47	47	44
137.5°	32	32	27	17	11	7	22	35	64	64	59
140°	23	23	21	12	6	2	10	21	35	38	38
142.5°	12	13	11	3	0	0	1	7	13	17	18
145°	7	7	6	0	0	0	0	2	5	8	8
147.5°	4	4	4	0	0	0	0	0	1	2	3
150°	3	3	3	0	0	0	0	0	0	1	1
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
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°	43	43	43	43	43	43	43	43	43	43	43
2.5°	43	42	41	42	42	43	46	50	56	57	56
5°	44	45	47	49	51	53	56	57	60	62	62
7.5°	52	53	54	56	57	59	59	58	62	64	64
10°	62	63	63	63	64	63	62	62	65	65	65
12.5°	72	73	73	75	73	71	72	76	80	81	80
15°	81	81	87	93	93	93	98	100	105	106	105
17.5°	80	82	102	102	106	112	112	117	124	126	126
20°	88	96	113	110	113	113	119	126	133	134	133
22.5°	106	110	117	115	115	114	115	114	122	127	129
25°	145	173	165	144	120	113	116	128	144	155	159
27.5°	190	200	182	157	127	127	140	163	192	209	211
30°	226	225	198	165	140	150	175	200	233	252	255
32.5°	241	225	197	171	156	175	206	235	266	286	287
35°	272	262	223	163	163	193	226	253	283	298	299
37.5°	343	322	263	174	172	205	237	261	296	317	318
40°	375	352	270	177	184	216	249	281	320	342	341
42.5°	387	364	280	180	191	228	265	301	336	354	352
45°	410	381	274	186	198	242	279	315	356	374	374
47.5°	444	389	273	191	210	256	293	331	370	389	391
50°	431	366	268	201	229	270	308	353	376	369	367
52.5°	480	388	289	208	244	283	321	328	296	245	238
55°	583	428	294	215	238	285	289	225	173	143	140
57.5°	760	467	307	226	234	259	207	161	137	118	116
60°	880	508	304	224	225	204	165	139	127	114	112
62.5°	737	418	260	213	194	170	153	139	130	115	112
65°	907	540	292	203	172	165	157	144	136	123	118
67.5°	1219	731	351	221	179	169	162	152	150	129	119
70°	1387	854	407	246	201	183	172	160	171	127	109
72.5°	1431	935	444	261	217	197	182	171	196	130	110
75°	1410	979	453	266	220	199	189	189	230	126	109
77.5°	1269	889	405	256	216	198	193	232	247	116	103
80°	1194	818	375	258	215	197	193	249	228	112	104
82.5°	1137	814	370	259	208	189	187	211	169	108	102
85°	950	748	334	231	191	179	173	158	127	103	98
87.5°	729	614	277	185	167	169	156	132	113	97	94
90°	575	497	226	143	132	150	135	116	103	90	88
92.5°	321	288	156	108	103	122	111	103	95	86	84
95°	203	185	118	87	87	97	94	93	89	83	82
97.5°	127	124	96	66	74	83	85	85	85	81	80
100°	56	54	55	54	64	75	78	79	81	79	78
102.5°	49	45	45	48	57	67	73	75	78	77	77
105°	49	45	41	44	52	61	68	71	75	75	74
107.5°	53	52	40	42	49	57	64	68	72	73	72
110°	55	54	43	40	45	54	60	65	70	71	71



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	52	53	44	37	42	49	57	62	67	69	68
115°	46	46	38	35	39	46	53	58	64	66	66
117.5°	41	39	32	33	37	43	50	55	61	64	64
120°	37	36	28	30	35	41	46	51	58	61	61
122.5°	35	33	26	26	32	38	43	47	54	58	57
125°	32	30	23	22	28	34	39	43	51	54	54
127.5°	28	26	21	17	24	30	35	39	47	50	50
130°	25	23	19	14	20	26	31	35	43	46	46
132.5°	23	22	17	13	16	22	27	31	39	42	42
135°	37	32	24	14	13	17	22	27	35	38	38
137.5°	48	41	30	14	8	13	17	23	31	34	34
140°	32	27	20	10	4	7	13	19	27	29	29
142.5°	18	16	12	5	1	1	8	14	22	25	24
145°	9	9	6	2	0	0	3	9	17	20	20
147.5°	3	3	1	0	0	0	0	4	12	15	14
150°	1	0	0	0	0	0	0	1	6	9	9
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
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)