

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: LUMARK

Report Number: P23007

Luminaire Tested: **XTOR5ARL-N**

Test Date: 11/28/12

**Test Information**

Test Method: LM-79-08  
Report Number: P23007  
Test Lab: INNOVATION CENTER P2  
Test Date: 11/28/12  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: XTOR5ARL-N  
Description: LUMARK CROSSTOUR MAXX LED 50W - 3500K, REFRACTIVE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3829.6 lumens  
Efficiency: N/A  
Efficacy: 76.3 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.71' x L: 0.33' x H: 0.17')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U3 - G2

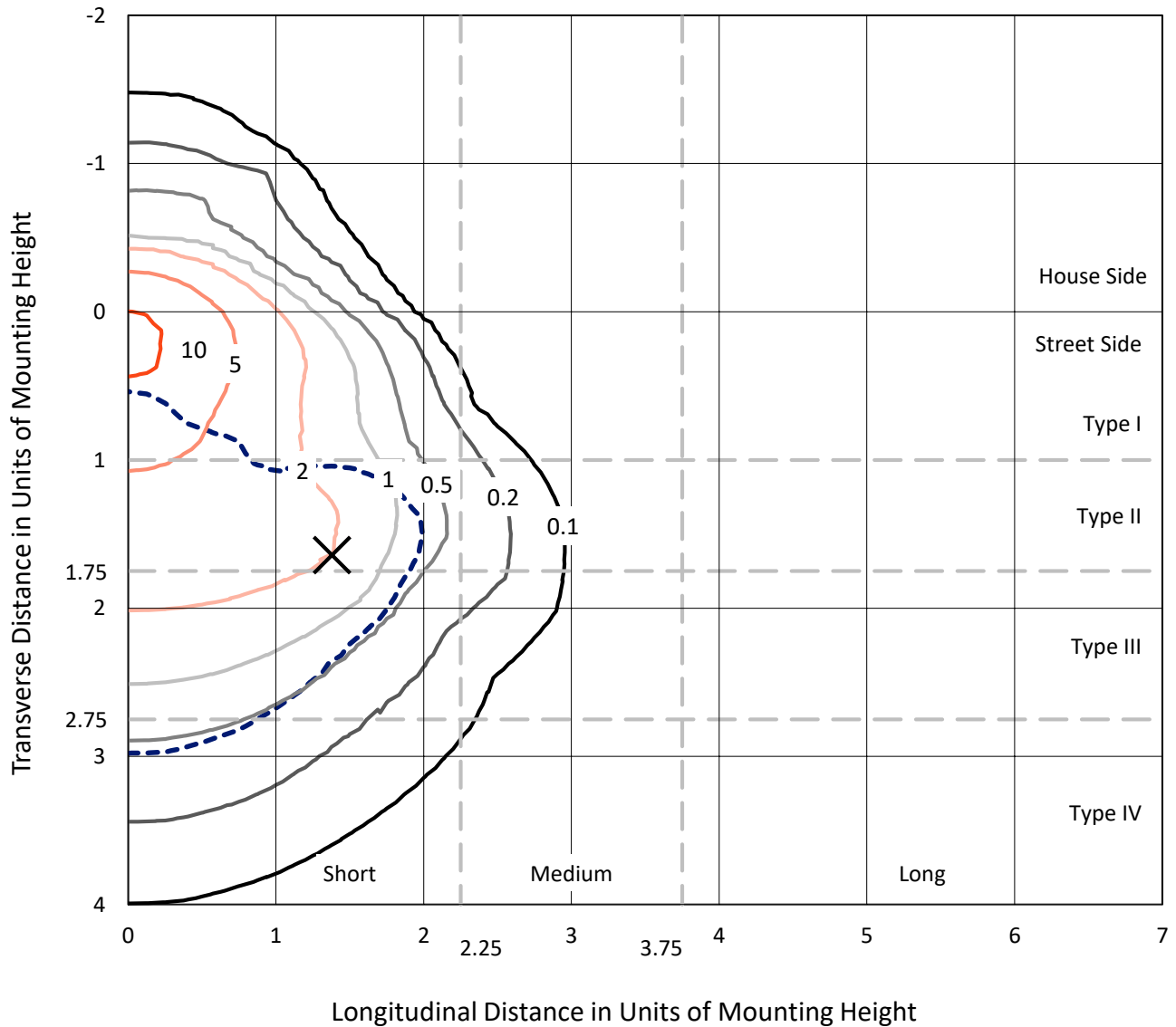
Input Watts (W): 50.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

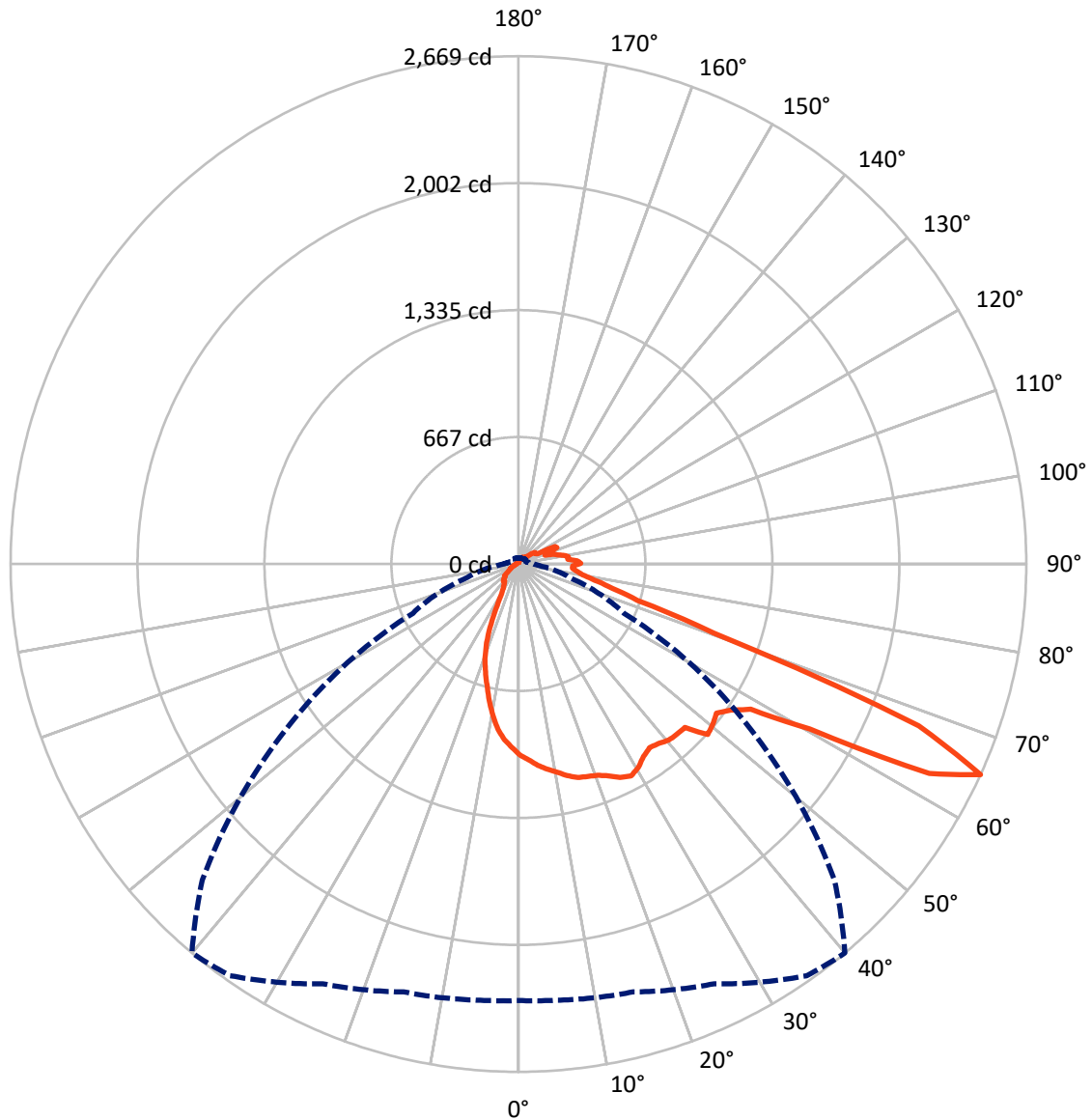
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.9 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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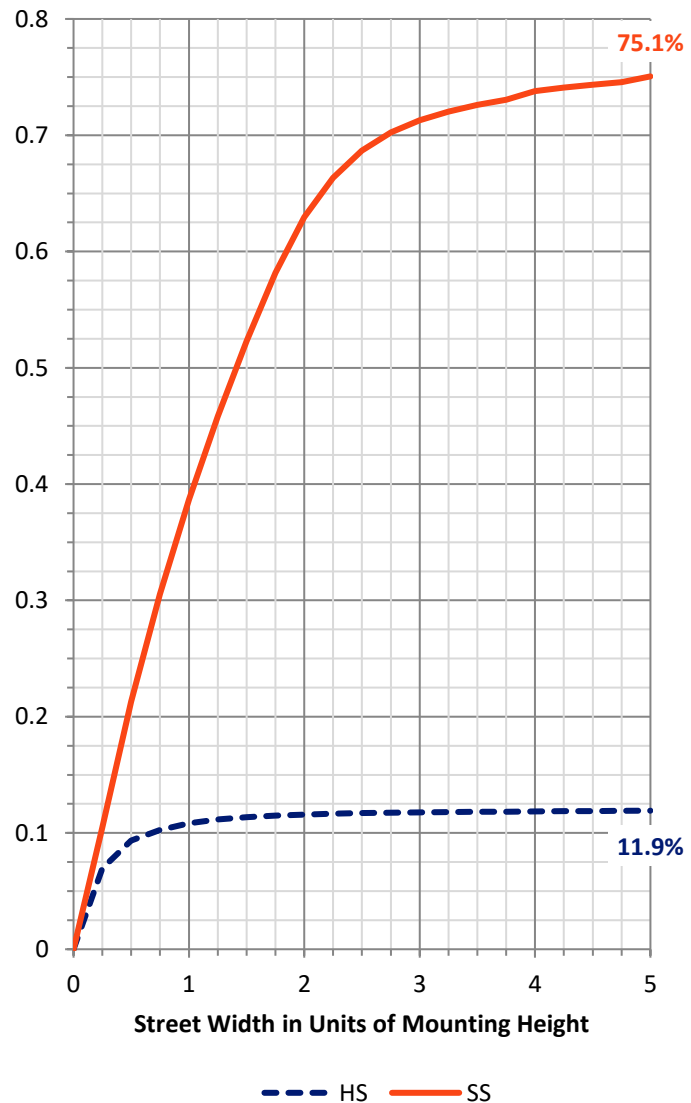
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	464.9	23.4	488.3
	% Fixture	12.1	0.6	12.8
<b>Street Side</b>	Lumens	2982.2	359.1	3341.3
	% Fixture	77.9	9.4	87.2
<b>Total</b>	Lumens	3447.0	382.6	3829.6
	% Fixture	90.0	10.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.3	2.5
10°-20°	261.8	6.8
20°-30°	373.7	9.8
30°-40°	450.6	11.8
40°-50°	519.6	13.6
50°-60°	589.2	15.4
60°-70°	737.8	19.3
70°-80°	271.0	7.1
80°-90°	149.1	3.9
90°-100°	137.4	3.6
100°-110°	97.2	2.5
110°-120°	76.8	2.0
120°-130°	32.3	0.8
130°-140°	18.8	0.5
140°-150°	12.0	0.3
150°-160°	7.4	0.2
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-90°	3447.0	90.0
0°-180°	3829.6	100.0



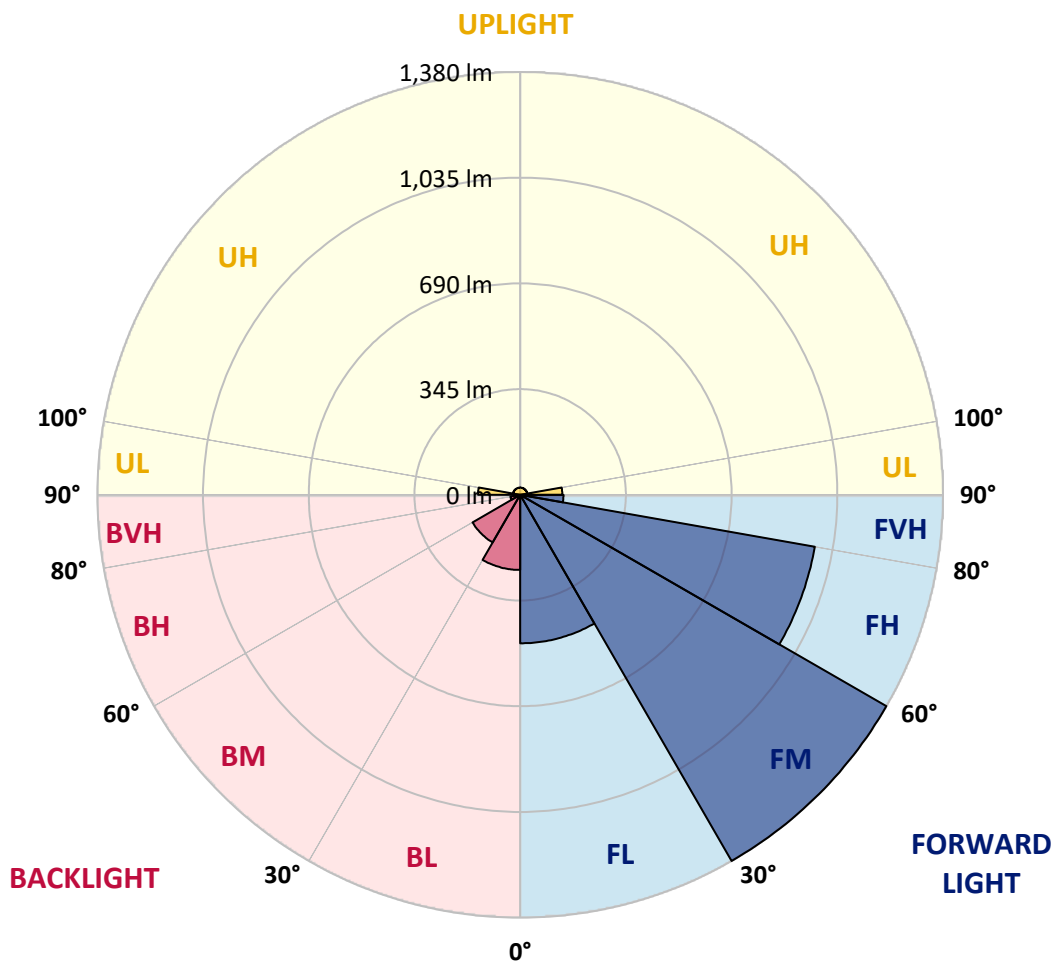
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	484.5	12.7			
FM	(30°-60°)	1379.8	36.0			
FH	(60°-80°)	976.4	25.5			G1/1800
FVH	(80°-90°)	141.4	3.7			G2/225
BL	(0°-30°)	245.2	6.4	B1/500		
BM	(30°-60°)	179.5	4.7	B0/220		
BH	(60°-80°)	32.4	0.8	B0/110		G0/110
BVH	(80°-90°)	7.8	0.2			G0/10
UL	(90°-100°)	137.4	3.6		U3/500	
UH	(100°-180°)	23.4	0.6		U2/50	

**BUG Rating: B1-U3-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1004	1004	1004	1004	1004	1004	1004	1004	1004	1004	1004
2.5°	1037	1033	1029	1033	1036	1030	1026	1026	1024	1021	1014
5°	1075	1074	1071	1072	1070	1063	1058	1053	1046	1035	1020
7.5°	1111	1111	1107	1104	1095	1088	1081	1073	1061	1044	1021
10°	1146	1147	1142	1134	1122	1112	1103	1087	1070	1047	1018
12.5°	1176	1177	1172	1166	1151	1141	1131	1107	1081	1053	1017
15°	1206	1206	1200	1186	1172	1164	1155	1130	1095	1060	1016
17.5°	1247	1247	1235	1210	1186	1174	1165	1142	1104	1061	1010
20°	1297	1296	1283	1249	1205	1185	1170	1143	1106	1056	999
22.5°	1326	1324	1319	1290	1238	1209	1182	1138	1104	1052	984
25°	1307	1307	1309	1305	1273	1242	1206	1139	1101	1049	971
27.5°	1296	1295	1289	1278	1274	1261	1232	1144	1091	1042	955
30°	1326	1325	1304	1262	1240	1241	1235	1155	1079	1031	934
32.5°	1370	1369	1345	1284	1217	1206	1203	1164	1070	1017	910
35°	1392	1392	1374	1320	1228	1186	1167	1165	1063	1002	883
37.5°	1403	1400	1378	1334	1255	1196	1147	1137	1060	981	851
40°	1458	1453	1411	1336	1266	1217	1152	1090	1053	957	815
42.5°	1577	1574	1531	1387	1263	1222	1174	1045	1042	931	777
45°	1549	1545	1521	1491	1319	1226	1177	1030	1011	904	735
47.5°	1578	1572	1538	1446	1379	1339	1227	1051	956	872	686
50°	1638	1633	1600	1549	1417	1324	1233	1050	891	840	626
52.5°	1785	1763	1700	1560	1396	1303	1214	1046	841	807	557
55°	1721	1710	1656	1571	1446	1355	1252	1052	839	762	482
57.5°	1820	1807	1749	1643	1497	1439	1358	1114	829	689	397
60°	2089	2080	2054	1981	1827	1759	1710	1201	780	569	300
62.5°	2261	2272	2351	2442	2453	2424	2198	1379	693	423	195
65°	2294	2301	2328	2434	2641	2669	2349	1461	612	283	116
67.5°	2127	2136	2121	2116	2183	2269	1845	1327	543	173	80
70°	1635	1644	1578	1410	1155	1090	959	1021	503	117	66
72.5°	1086	1086	974	806	703	653	539	656	403	87	56
75°	761	761	706	627	554	509	439	417	279	71	48
77.5°	589	590	539	472	431	409	369	337	166	62	43
80°	480	481	452	388	361	341	304	266	117	54	39
82.5°	464	461	431	380	343	307	265	216	100	48	35
85°	522	517	485	424	353	285	224	190	90	43	31
87.5°	491	489	454	405	354	286	206	178	86	39	28
90°	532	526	506	447	424	327	205	187	81	38	25
92.5°	542	541	530	501	446	311	199	196	76	38	23
95°	512	513	485	426	367	260	217	186	71	38	22
97.5°	353	356	336	298	308	266	228	160	68	37	22
100°	276	276	255	251	321	247	197	140	65	35	21
102.5°	274	276	291	354	335	212	159	128	61	34	21
105°	278	284	329	383	293	193	137	117	58	32	20
107.5°	323	327	337	292	204	147	119	113	57	32	20
110°	332	328	302	258	203	155	113	106	57	31	20



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
112.5°	431	427	378	322	272	220	130	99	56	30	19
115°	359	359	339	303	257	213	119	87	53	28	18
117.5°	170	173	164	143	132	115	95	80	50	25	16
120°	114	115	113	111	111	107	95	71	44	22	14
122.5°	84	86	87	93	100	106	98	59	39	20	13
125°	80	81	86	94	107	103	88	54	40	19	12
127.5°	85	85	91	101	99	87	68	49	33	18	12
130°	95	95	95	93	76	64	59	42	28	17	11
132.5°	87	87	82	70	57	55	50	36	26	15	11
135°	67	67	62	55	49	47	44	35	24	15	11
137.5°	52	52	48	47	45	43	41	40	25	16	11
140°	43	43	45	44	41	41	38	42	28	17	12
142.5°	41	41	41	39	37	38	41	37	29	18	13
145°	39	40	41	39	41	44	40	35	27	17	14
147.5°	41	40	40	43	45	39	35	33	26	18	14
150°	49	49	49	46	41	39	37	30	22	17	13
152.5°	47	47	45	42	40	37	34	25	17	16	12
155°	43	43	42	38	34	31	27	20	14	16	11
157.5°	36	36	35	32	28	24	21	17	13	16	11
160°	30	30	28	25	22	19	17	15	14	15	10
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°	1004	1004	1004	1004	1004	1004	1004	1004	1004	1004	1004
2.5°	1010	1006	998	987	978	968	960	958	956	948	947
5°	1012	1004	988	968	952	934	920	911	905	895	896
7.5°	1010	997	973	942	917	888	863	846	831	820	822
10°	1003	986	950	909	869	826	790	762	739	726	729
12.5°	998	977	929	872	815	760	709	674	647	637	639
15°	992	965	904	829	756	682	633	604	582	574	573
17.5°	981	948	871	776	686	614	569	535	506	492	488
20°	964	923	827	714	616	552	502	441	381	355	349
22.5°	944	895	778	646	558	485	407	313	255	231	229
25°	924	865	725	585	495	407	286	203	164	152	152
27.5°	899	830	667	529	426	298	191	149	141	139	139
30°	869	788	602	469	341	206	151	137	134	132	132
32.5°	835	744	539	401	247	160	138	128	126	126	126
35°	797	691	482	328	187	143	126	119	139	158	159
37.5°	754	638	425	249	154	129	115	134	136	115	111
40°	707	578	343	187	140	115	113	131	102	98	96
42.5°	655	514	264	146	122	106	133	101	91	86	85
45°	597	446	196	123	108	100	113	87	83	79	78
47.5°	533	377	147	105	94	103	89	79	76	72	71
50°	460	305	118	91	83	114	77	72	70	70	69
52.5°	385	232	105	79	74	88	66	69	67	61	60
55°	306	166	90	68	67	70	60	60	61	61	61
57.5°	223	115	76	60	61	56	51	58	57	52	51
60°	149	89	62	53	58	49	49	47	44	41	40
62.5°	101	74	52	46	52	42	43	39	36	34	33
65°	79	61	43	40	44	37	35	34	32	30	30
67.5°	65	50	37	35	37	32	31	30	28	26	25
70°	54	42	31	30	31	28	26	26	24	23	23
72.5°	44	37	28	25	26	25	23	24	22	21	21
75°	37	32	24	22	24	23	21	21	19	17	17
77.5°	33	27	21	19	21	20	19	17	16	14	14
80°	30	24	19	18	19	18	17	15	14	12	12
82.5°	26	22	17	16	18	16	16	13	11	10	10
85°	24	20	16	15	17	15	14	11	9	8	8
87.5°	22	19	15	14	16	14	13	10	7	6	6
90°	20	17	14	14	16	13	12	8	6	5	5
92.5°	19	16	13	13	16	13	12	8	6	5	5
95°	18	16	13	13	15	13	12	8	6	5	5
97.5°	17	15	13	13	14	13	11	7	6	5	5
100°	17	15	13	13	13	13	10	7	6	5	5
102.5°	16	14	13	13	13	12	10	7	6	5	5
105°	16	14	13	12	12	11	9	7	6	5	5
107.5°	16	14	13	12	11	10	8	6	5	5	5
110°	15	13	13	11	11	9	8	6	5	5	5



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	15	13	12	11	10	8	7	6	5	4	5
115°	14	12	11	10	10	8	7	5	5	4	4
117.5°	13	12	11	10	10	7	6	5	4	4	4
120°	12	11	10	10	9	7	6	5	4	4	4
122.5°	12	11	10	9	9	6	6	4	4	4	4
125°	11	10	10	9	9	6	5	4	4	4	4
127.5°	11	10	9	9	8	5	5	4	4	4	4
130°	10	10	9	9	8	5	5	4	4	4	4
132.5°	10	9	9	8	7	5	4	4	3	4	4
135°	10	9	8	8	7	5	4	3	3	3	3
137.5°	11	9	8	7	7	4	4	3	3	3	3
140°	12	9	8	7	6	4	4	3	3	3	3
142.5°	12	10	7	7	6	4	4	3	3	3	3
145°	12	10	7	6	6	4	4	3	3	3	3
147.5°	11	9	7	6	6	4	4	3	3	3	3
150°	10	9	7	6	6	4	4	3	3	3	3
152.5°	9	8	6	6	5	4	4	3	3	3	3
155°	9	8	6	6	5	4	4	3	3	3	3
157.5°	9	8	6	5	5	4	4	3	3	3	3
160°	9	8	6	5	5	4	4	3	3	3	3
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)