

Scaled data based on original data using  
LM-35-02 Approved Method for Photometric Testing of Floodlights Using High Intensity  
Discharge or Incandescent Filament Lamps

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: LUMIERE

Report Number: P185209

Luminaire Tested: **206-10LED4021**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Report Generated By 670245982

**Test Information**

Test Method: LM-35-02  
 Report Number: P185209  
 TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26952)  
 Test Lab: INNOVATION CENTER-P2  
 Issue Date: 3/3/2020  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: LUMIERE  
 Catalog Number: 206-10LED4021  
 Description: LUMIERE 203, STANDARD RECESSED LENS HOOD BLACK, 21 DEG LED OPTIC,  
 CLEAR LENS  
 Light Source: 4000K CCT, 80 CRI LEDs  
 Ballast/Driver: -

Luminaire Equipment:	<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
	AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
	AS-5443-2	Good	REFLECTOR
	AS-5443-3	Good	REFLECTOR
	AS-5443-4	Good	REFLECTOR

**Summary**

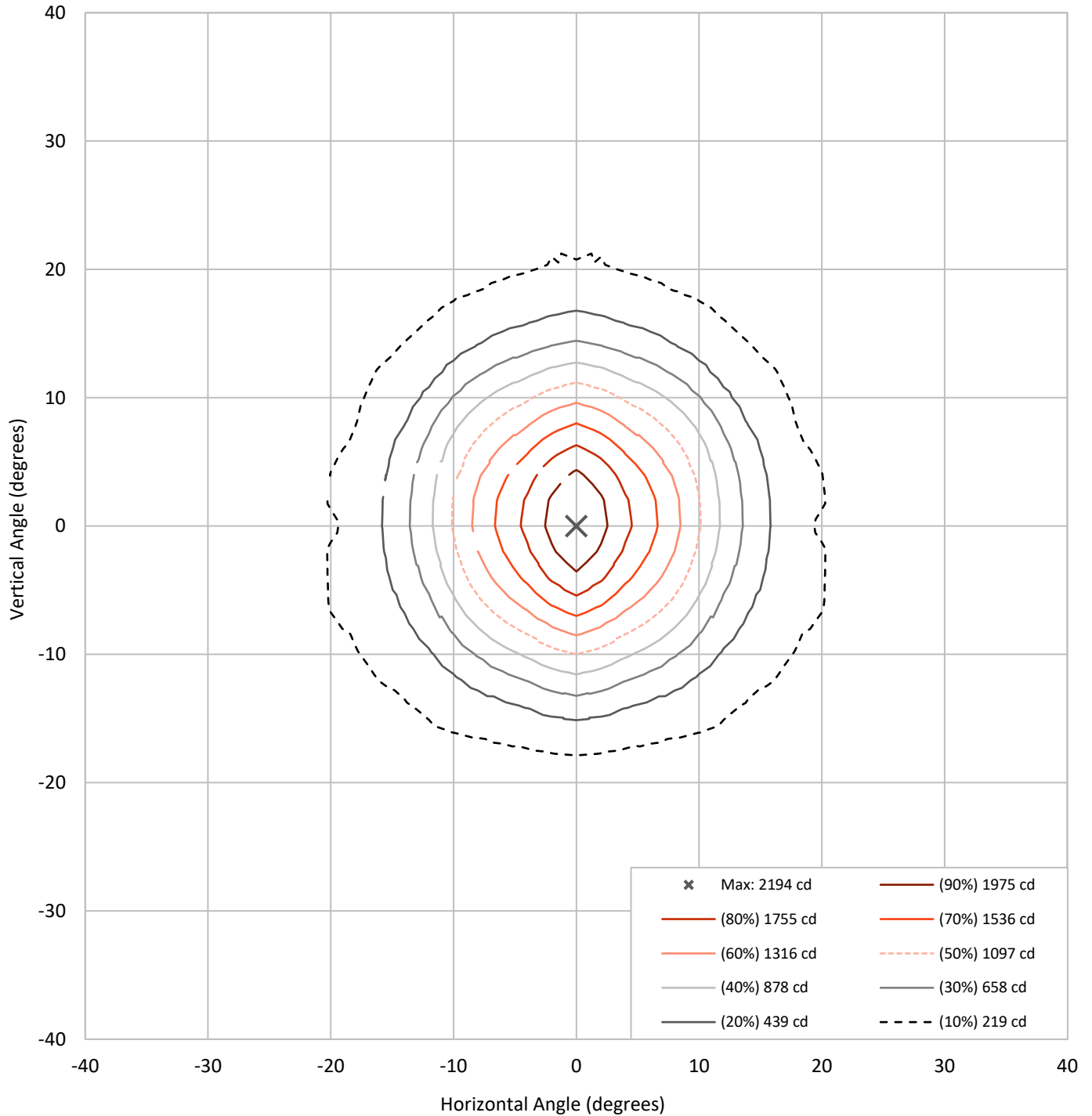
Lumens per Lamp: N/A	NEMA Type: 3H x 3V
Luminaire Lumens: 343.7 lumens	Max Intensity: 2194 candela
Efficiency: N/A	Max Intensity Angle: 0°H x 0°V
Efficacy: 37.4 lumens/watt	
Luminous Opening: Circular (Dia: 0.17' x H: 0')	
Beam Angle (50%): 20.3°H x 21.2°V	Field Angle (10%): 38.6°H x 38.6°V
Beam Lumens: 148.2 lumens	Field Lumens: 288.1 lumens
Beam Efficiency: 43.1%	Field Efficiency: 83.8%

Input Watts (W): 9.2  
 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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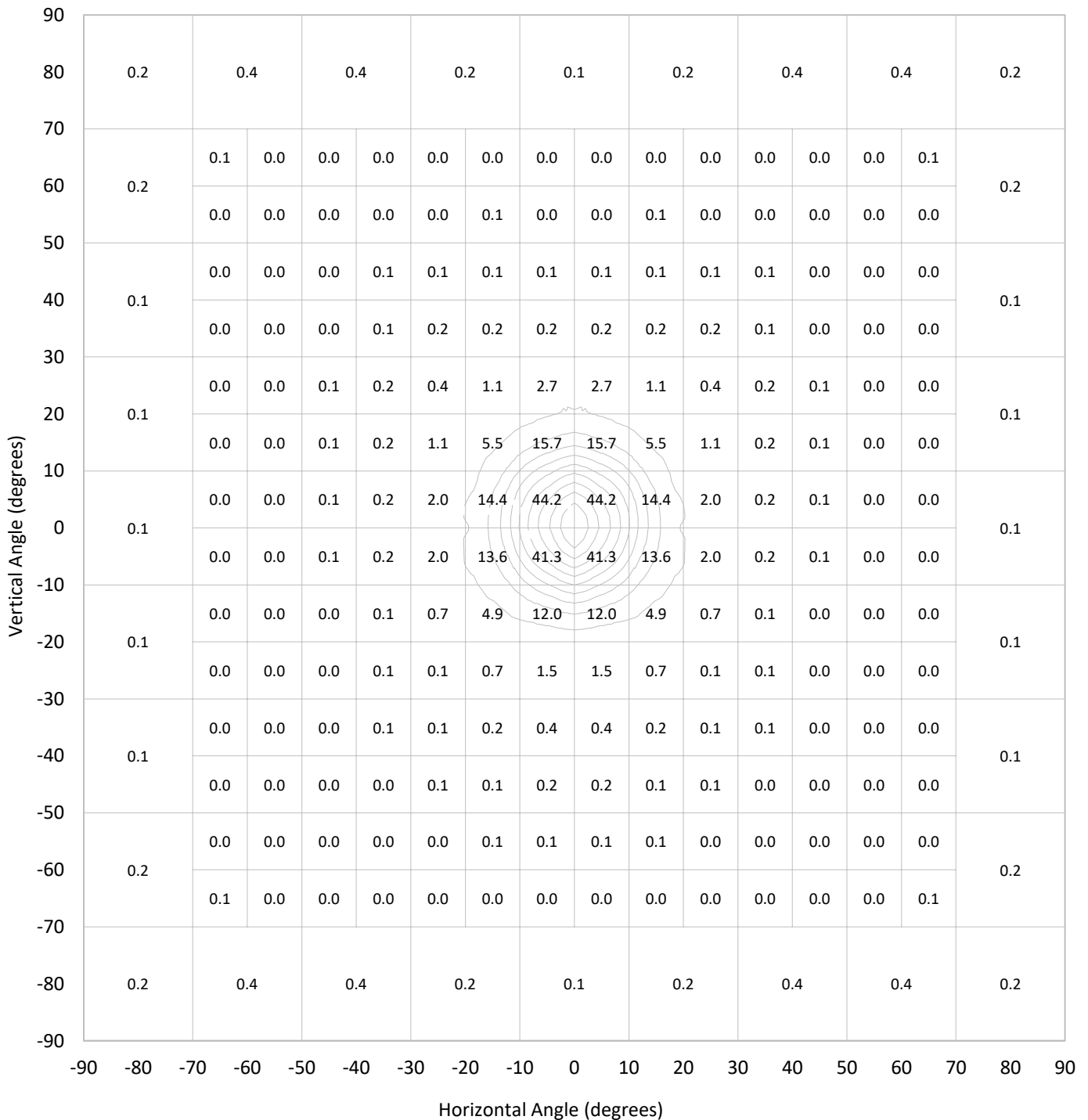
### Iso-Candela Plot





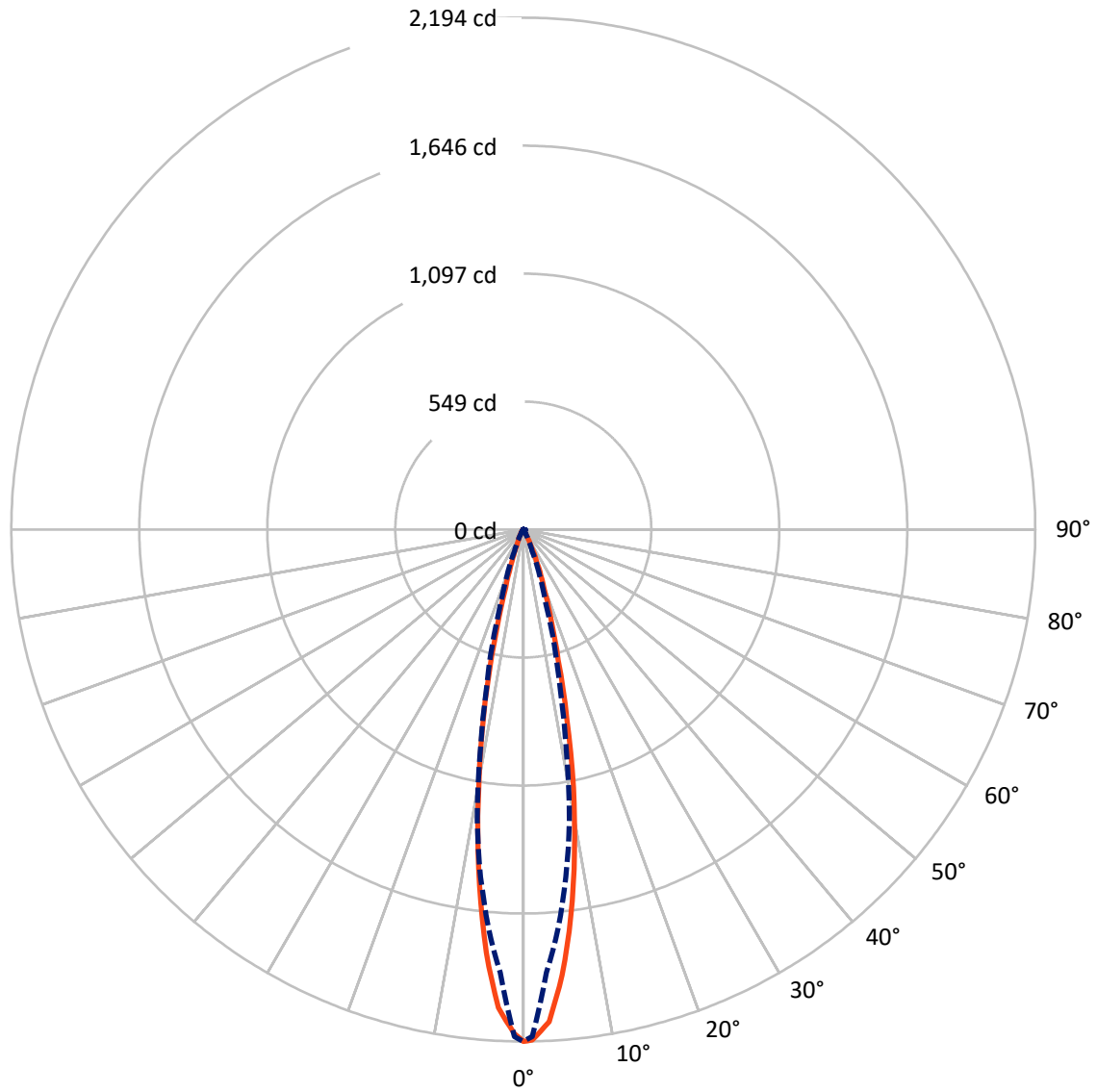
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### Lumen Table



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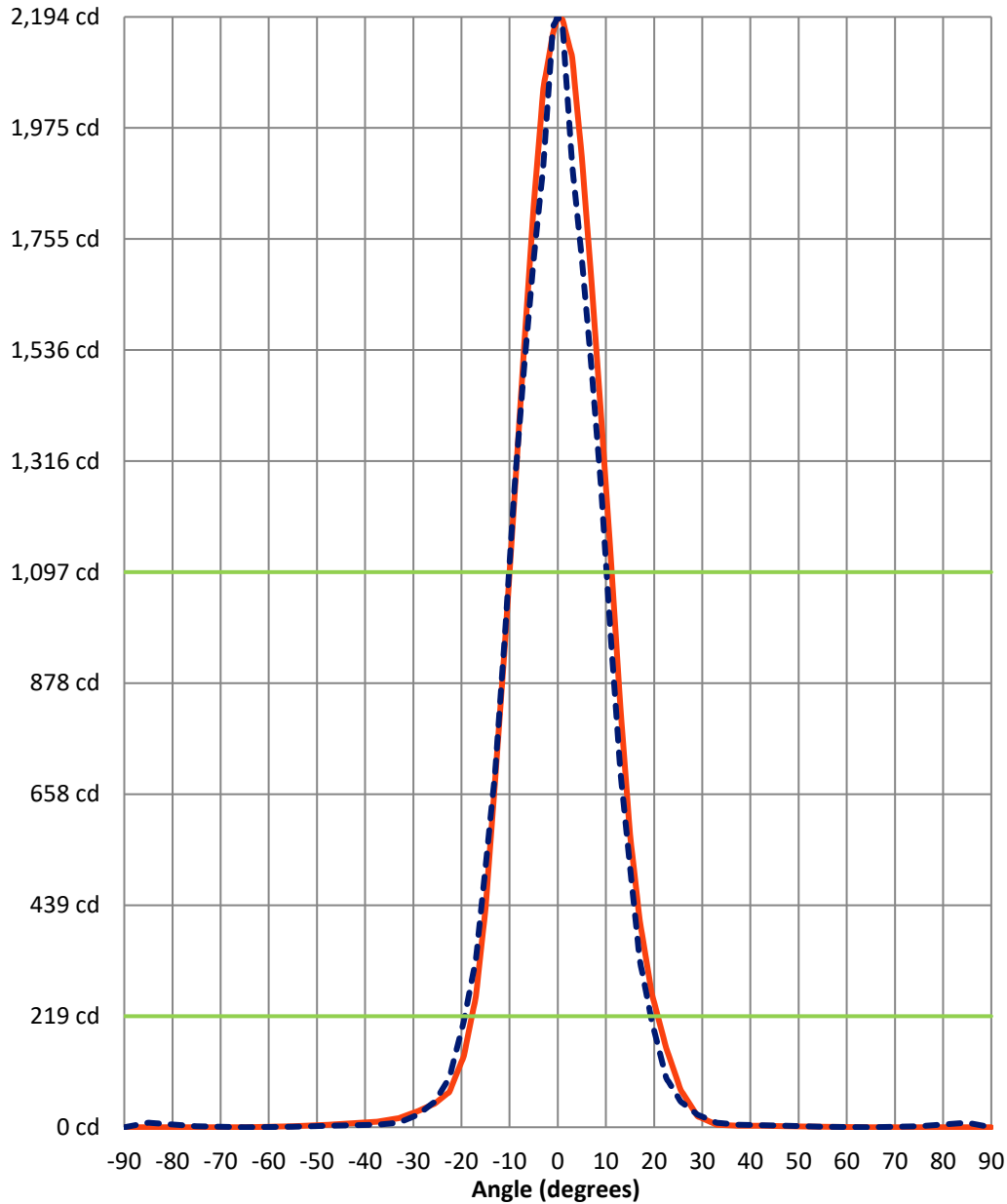
### Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg      - - - Horizontal Distribution Through 0-Deg

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### Luminous Intensity Plot



**Beam:**  
H Angle: 20.3°  
V Angle: 21.2°  
Lumens: 148.2  
Efficiency: 43.1%

**Field:**  
H Angle: 38.6°  
V Angle: 38.6°  
Lumens: 288.1  
Efficiency: 83.8%

**Spill:**  
Lumens: 55.6  
Efficiency: 16.2%

— Vertical Distribution through 0-Deg  
- - Horizontal Distribution through 0-Deg



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FIELD  
BEAM

**CANDELA DISTRIBUTION:**

	0°	1°	3°	5°	7°	9°	11°	13°	15°	17°	19.5°
90°	0	0	0	0	0	0	0	0	0	0	0
85°	0	1	1	1	1	1	1	1	2	3	4
75°	0	0	1	1	1	1	1	1	1	1	1
65°	0	0	1	1	1	1	1	1	1	1	1
55°	1	1	1	1	1	1	2	2	2	2	1
47.5°	2	2	2	2	3	3	3	3	3	3	3
42.5°	3	3	3	3	3	3	4	4	4	4	4
37.5°	3	3	3	3	4	4	4	4	5	5	5
33°	5	5	5	5	5	5	5	6	6	6	6
29°	22	22	21	21	19	18	16	14	12	11	10
25.5°	74	75	69	65	53	47	41	36	30	24	19
22.5°	157	254	134	126	112	97	73	60	50	41	33
19.5°	265	253	235	219	183	170	164	95	75	60	48
17°	410	415	362	336	290	242	220	175	105	79	61
15°	579	584	509	470	406	343	265	229	178	99	73
13°	830	840	731	666	568	480	361	262	249	175	86
11°	1126	1134	993	918	797	667	495	345	262	243	103
9°	1404	1400	1229	1131	994	854	663	455	304	253	123
7°	1671	1674	1467	1342	1177	1007	788	568	402	255	194
5°	1916	1912	1674	1524	1335	1140	887	637	470	280	236
3°	2113	2098	1832	1664	1457	1231	953	686	504	321	262
1°	2188	2176	1905	1721	1506	1267	977	705	515	332	264
0°	2194	2173	1901	1715	1500	1262	969	703	514	332	210
-1°	2161	2144	1871	1685	1474	1244	951	692	507	330	264
-3°	2052	2017	1759	1582	1385	1165	883	643	480	316	262
-5°	1821	1808	1579	1415	1243	1037	784	569	434	291	260
-7°	1540	1532	1337	1201	1062	877	658	487	377	257	256
-9°	1244	1238	1079	980	853	689	532	401	312	241	195
-11°	951	947	829	747	633	530	414	314	246	247	120
-13°	687	687	582	513	449	386	305	235	220	179	92
-15°	433	439	379	347	308	267	245	202	173	100	69
-17°	259	262	230	217	196	195	187	156	98	70	46
-19.5°	141	141	126	116	104	96	81	69	56	42	28
-22.5°	70	71	64	61	57	53	46	40	32	23	15
-25.5°	47	47	42	40	36	34	28	24	18	13	8
-29°	32	32	28	27	22	21	16	14	10	8	6
-33°	18	18	16	16	13	12	10	9	7	6	5
-37.5°	11	11	11	11	10	9	8	7	7	6	5
-42.5°	8	8	8	8	7	7	7	6	6	5	4
-47.5°	5	5	5	5	5	5	5	4	4	4	3
-55°	2	2	2	2	2	2	2	2	2	2	2
-65°	0	0	0	1	1	1	1	1	1	1	1
-75°	0	0	1	1	1	1	1	1	1	1	1
-85°	0	1	1	1	1	1	1	1	2	2	3
-90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	22.5°	25.5°	29°	33°	37.5°	42.5°	47.5°	55°	65°	75°	85°
90°	0	0	0	0	0	0	0	0	0	0	0
85°	5	6	7	8	8	9	9	9	10	10	10
75°	1	1	1	1	2	2	4	6	8	9	10
65°	1	1	1	1	0	0	1	2	5	8	10
55°	1	1	1	1	1	0	0	1	3	7	9
47.5°	3	3	2	2	1	1	0	0	2	6	9
42.5°	4	4	3	3	2	1	1	0	1	5	9
37.5°	5	5	5	4	3	2	1	0	1	5	9
33°	6	7	6	5	4	3	1	0	1	4	9
29°	9	8	7	7	5	3	2	0	0	4	9
25.5°	14	11	9	8	6	4	2	1	0	3	9
22.5°	22	16	11	8	6	4	2	1	0	3	9
19.5°	34	23	14	9	7	5	3	1	0	3	9
17°	43	30	18	10	7	5	3	1	0	3	9
15°	49	35	21	11	7	5	3	1	0	3	9
13°	56	39	23	11	7	5	3	1	0	3	9
11°	63	43	25	11	7	5	3	1	0	3	9
9°	71	45	26	11	7	5	3	1	0	3	9
7°	78	47	27	11	6	5	3	1	0	3	9
5°	86	49	26	10	6	4	3	1	0	2	9
3°	92	50	26	10	6	4	3	1	0	2	9
1°	97	51	25	9	5	4	3	1	0	2	9
0°	98	51	25	9	5	4	3	1	0	2	9
-1°	99	51	24	8	5	4	2	1	0	2	9
-3°	98	50	22	7	4	3	2	1	0	2	9
-5°	93	44	20	6	4	3	2	1	0	2	9
-7°	86	39	15	5	3	3	2	1	0	2	9
-9°	74	33	11	4	3	3	2	1	0	3	9
-11°	59	28	8	3	3	2	2	0	0	3	9
-13°	46	19	6	3	3	2	2	0	0	3	9
-15°	32	13	5	3	3	2	2	1	0	3	9
-17°	20	9	4	3	2	2	1	0	0	3	9
-19.5°	12	6	3	3	2	2	1	0	0	3	9
-22.5°	7	4	3	3	2	2	1	0	0	3	9
-25.5°	5	4	3	3	2	2	1	0	0	3	9
-29°	4	4	3	3	2	1	1	0	0	4	9
-33°	4	4	3	3	2	1	1	0	1	4	9
-37.5°	4	4	3	2	2	1	1	0	1	5	9
-42.5°	4	3	2	2	1	1	0	0	1	5	9
-47.5°	3	2	2	1	1	1	0	0	2	6	9
-55°	1	1	1	1	1	0	0	1	3	7	10
-65°	1	1	1	1	1	1	1	2	5	8	10
-75°	1	0	1	1	1	2	4	6	8	9	10
-85°	5	6	7	8	8	9	9	10	10	10	10
-90°	0	0	0	0	0	0	0	0	0	0	0





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**CANDELA DISTRIBUTION (continued):**

	90°
90°	0
85°	0
75°	0
65°	0
55°	0
47.5°	0
42.5°	0
37.5°	0
33°	0
29°	0
25.5°	0
22.5°	0
19.5°	0
17°	0
15°	0
13°	0
11°	0
9°	0
7°	0
5°	0
3°	0
1°	0
0°	0
-1°	0
-3°	0
-5°	0
-7°	0
-9°	0
-11°	0
-13°	0
-15°	0
-17°	0
-19.5°	0
-22.5°	0
-25.5°	0
-29°	0
-33°	0
-37.5°	0
-42.5°	0
-47.5°	0
-55°	0
-65°	0
-75°	0
-85°	0
-90°	0

(END OF REPORT)