

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: P184459

Luminaire Tested: **206-10LED4012**

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: P184459
 TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26951)
 Test Lab: INNOVATION CENTER-P2
 Issue Date: 3/3/2020
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: LUMIERE
 Catalog Number: 206-10LED4012
 Description: LUMIERE 203, STANDARD RECESSED LENS HOOD BLACK, 12 DEG LED OPTIC,
 CLEAR LENS
 Light Source: 4000K CCT, 80 CRI LEDs
 Ballast/Driver: -

Luminaire Equipment:	Sample No.	Condition	Description
	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

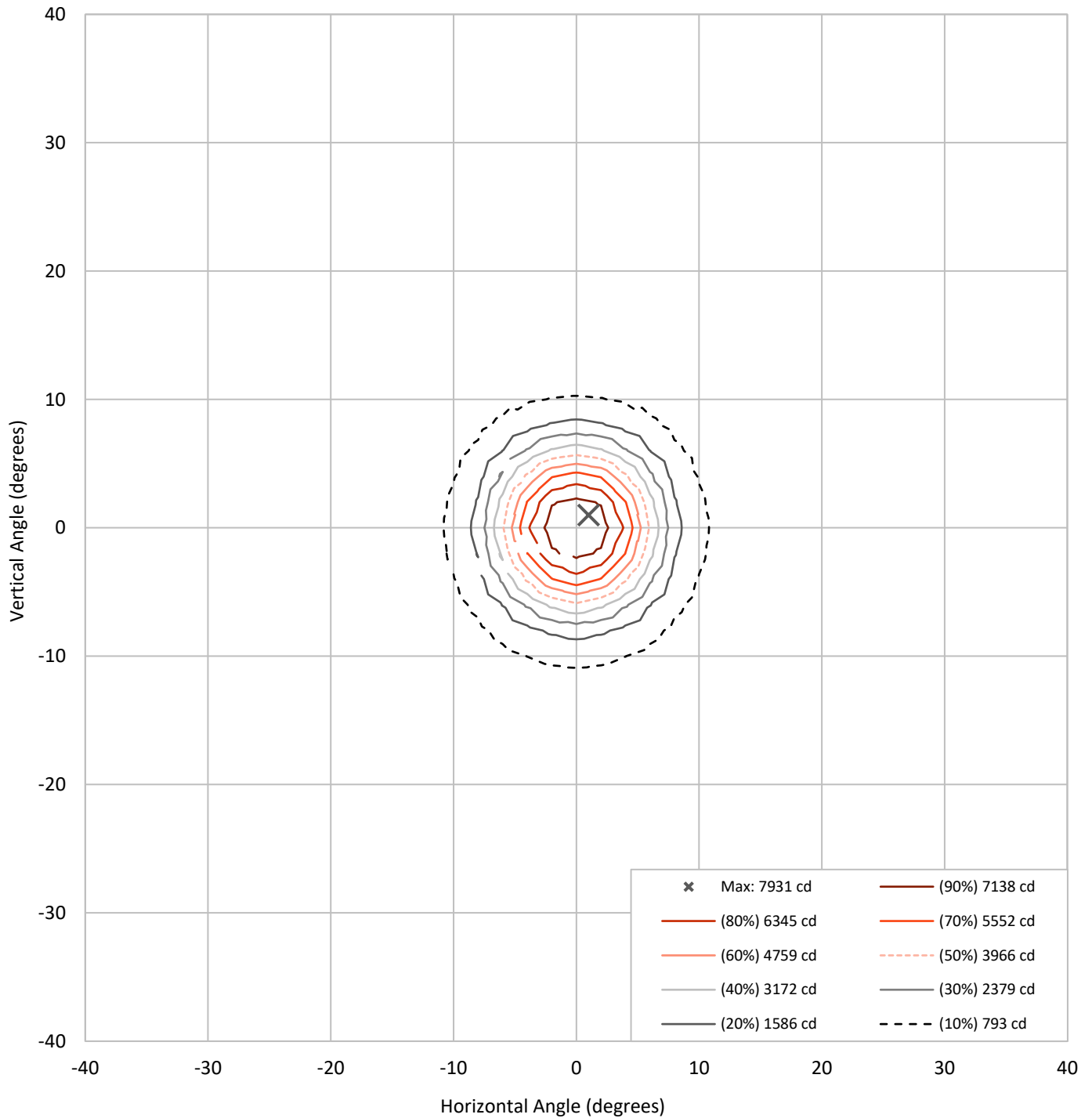
Lumens per Lamp: N/A	NEMA Type: 2H x 2V
Luminaire Lumens: 416.7 lumens	Max Intensity: 7931 candela
Efficiency: N/A	Max Intensity Angle: 1°H x 1°V
Efficacy: 44.3 lumens/watt	
Luminous Opening: Circular (Dia: 0.17' x H: 0')	
Beam Angle (50%): 11.8°H x 11.6°V	Field Angle (10%): 21.3°H x 21.1°V
Beam Lumens: 184.2 lumens	Field Lumens: 329.5 lumens
Beam Efficiency: 44.2%	Field Efficiency: 79.1%

Input Watts (W): 9.4
 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: 28.75 FT



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Iso-Candela Plot





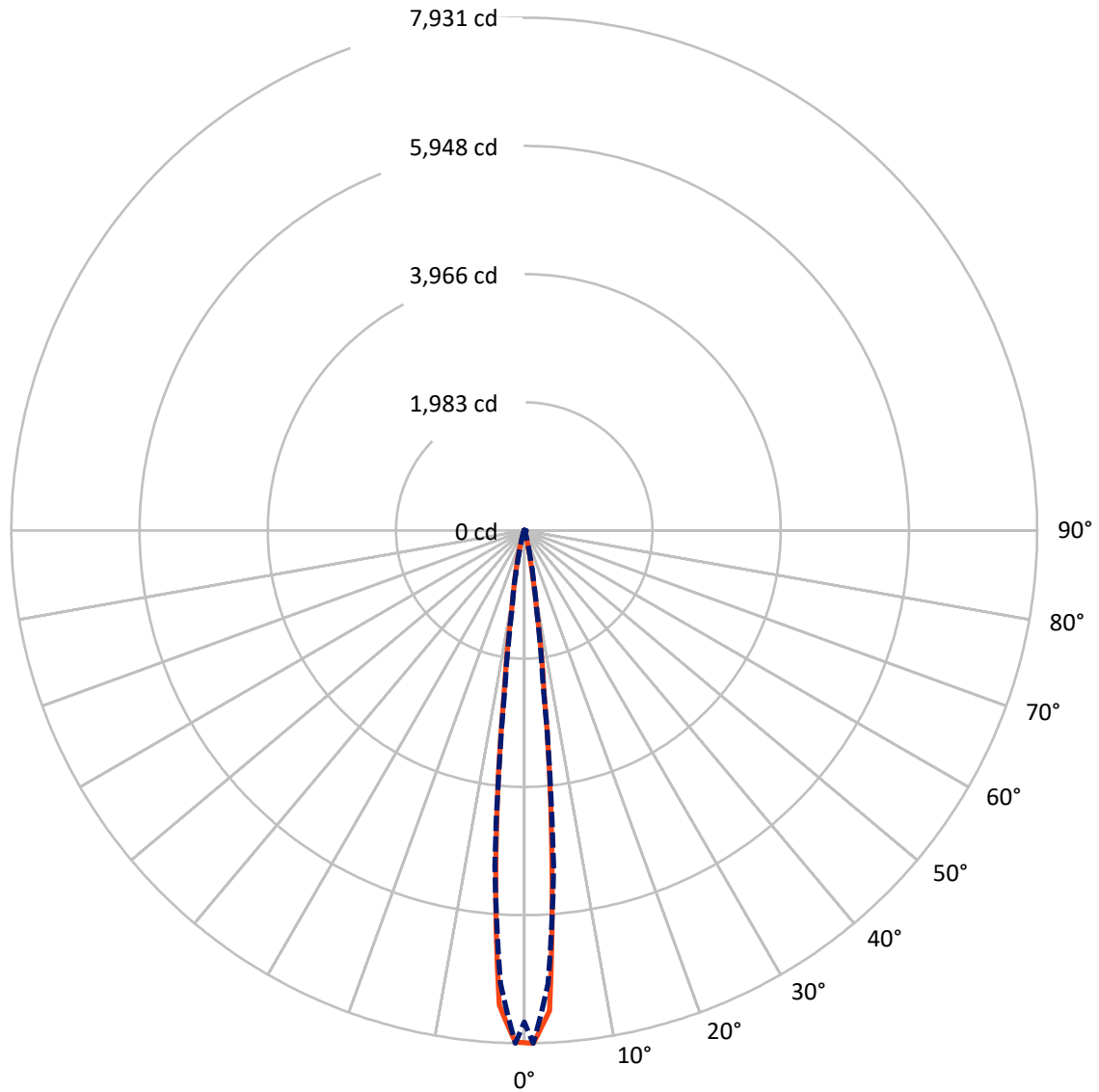
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Lumen Table

90	0.6	1.0	0.8	0.2	0.1	0.2	0.8	1.0	0.6										
80	0.6	1.0	0.8	0.2	0.1	0.2	0.8	1.0	0.6										
70	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4				
60		0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0					
50	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2				
40		0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0					
30	0.2	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.4	0.2	0.1	0.0	0.0	0.0	0.2				
20		0.0	0.0	0.0	0.0	0.2	1.2	5.8	5.8	1.2	0.2	0.0	0.0	0.0					
10	0.2	0.0	0.0	0.0	0.0	0.3	6.6	83.4	83.4	6.6	0.3	0.0	0.0	0.0	0.2				
0		0.0	0.0	0.0	0.0	0.4	7.2	84.0	84.0	7.2	0.4	0.0	0.0	0.0					
-10	0.2	0.0	0.0	0.0	0.0	0.1	1.7	7.0	7.0	1.7	0.1	0.0	0.0	0.0	0.2				
-20		0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.2	0.1	0.0	0.0	0.0					
-30	0.2	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.2				
-40		0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0					
-50	0.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.4				
-60		0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1					
-70	0.6	1.1	0.8	0.2	0.1	0.2	0.8	1.1	0.6						0.6				
-80		1.1	0.8	0.2	0.1	0.2	0.8	1.1	0.6										
-90	0.6	1.1	0.8	0.2	0.1	0.2	0.8	1.1	0.6										

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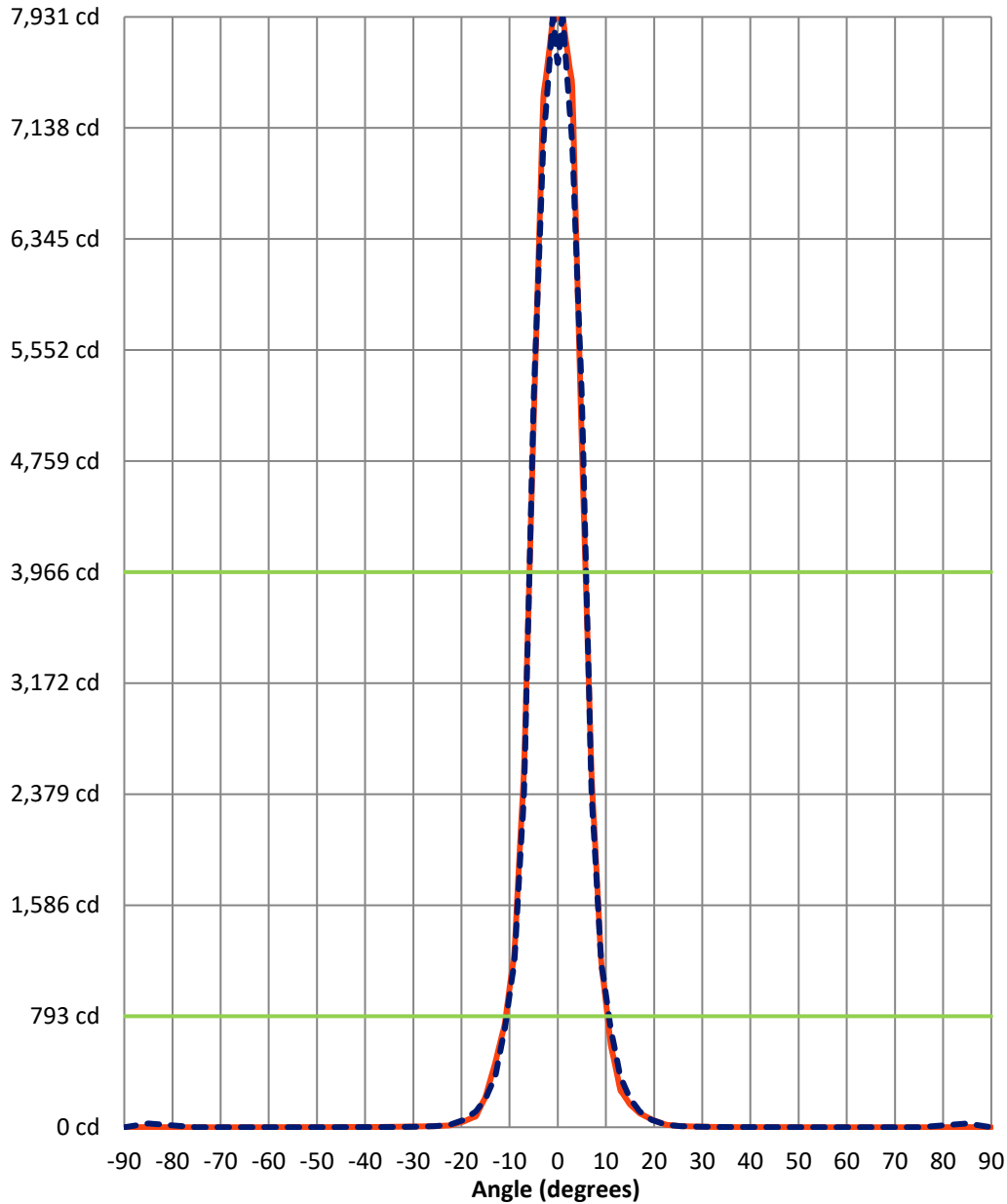
Luminous Intensity Polar Plot



— Vertical Distribution Through 1-Deg - - - Horizontal Distribution Through 1-Deg

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Luminous Intensity Plot



Beam:
H Angle: 11.8°
V Angle: 11.6°
Lumens: 184.2
Efficiency: 44.2%

Field:
H Angle: 21.3°
V Angle: 21.1°
Lumens: 329.5
Efficiency: 79.1%

Spill:
Lumens: 87.2
Efficiency: 20.9%

— Vertical Distribution through 1-Deg
- - Horizontal Distribution through 1-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	0	1	1	2
75°	0	0	1	2	2	1	1	1	1	1	1
65°	0	0	1	1	2	2	2	1	1	1	1
55°	0	0	0	1	2	2	2	2	2	2	1
47.5°	1	1	1	1	2	2	2	2	2	2	2
42.5°	1	1	1	1	2	2	2	2	2	2	2
37.5°	1	1	1	1	2	2	2	2	2	3	3
33°	1	2	2	2	2	2	3	3	3	3	3
29°	5	5	4	5	4	4	4	3	3	3	3
25.5°	8	8	8	8	7	7	6	5	4	4	4
22.5°	17	18	16	15	13	12	10	8	6	5	5
19.5°	54	55	49	49	38	30	21	14	10	8	6
17°	96	100	92	89	71	60	43	29	18	11	8
15°	155	163	147	144	107	86	65	46	29	17	9
13°	255	266	234	223	216	179	99	61	43	27	12
11°	565	591	519	471	330	226	189	86	55	39	18
9°	1146	1193	975	828	569	416	285	179	70	49	26
7°	2442	2527	1947	1476	884	601	414	257	129	59	33
5°	4737	4869	3765	2647	1378	813	532	317	181	74	39
3°	7093	7437	5931	4201	1990	1037	640	351	194	99	46
1°	7601	7931	7018	5203	2405	1189	704	361	205	114	53
0°	7651	7923	7125	5332	2462	1221	715	366	191	112	59
-1°	7626	7911	7006	5159	2371	1199	714	354	251	174	61
-3°	7097	7347	5878	4126	1922	1058	652	311	242	175	61
-5°	5057	5051	3809	2638	1382	847	512	288	197	109	57
-7°	2579	2567	1979	1509	931	625	366	259	187	97	49
-9°	1227	1252	1063	909	610	409	275	255	152	80	38
-11°	719	739	646	580	368	269	235	184	94	60	25
-13°	447	458	388	311	218	215	184	100	66	38	15
-15°	218	219	183	175	151	112	94	64	38	20	10
-17°	76	79	75	82	72	66	51	33	18	11	7
-19.5°	41	42	39	38	30	27	20	13	9	7	6
-22.5°	13	13	14	13	11	11	9	7	6	5	4
-25.5°	8	8	8	8	7	7	6	5	4	4	3
-29°	6	6	6	6	5	5	5	4	4	3	3
-33°	4	4	4	4	4	4	4	3	3	3	3
-37.5°	2	2	2	3	3	3	3	3	3	3	3
-42.5°	2	2	2	2	2	3	3	3	3	3	2
-47.5°	1	1	1	2	2	2	2	2	2	2	2
-55°	0	1	1	1	2	2	2	2	2	2	2
-65°	0	0	1	2	2	2	2	2	1	1	1
-75°	0	0	1	2	2	1	1	1	1	1	1
-85°	0	1	1	1	1	1	1	0	1	1	2
-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°	3	4	9	14	20	24	28	31	34	37	39
75°	1	1	1	0	0	1	2	4	19	30	37
65°	1	1	1	1	1	0	0	0	3	21	35
55°	1	1	1	1	1	1	1	0	1	10	33
47.5°	2	1	1	1	1	1	1	0	0	4	32
42.5°	2	2	2	1	1	1	1	0	0	3	31
37.5°	2	2	2	1	1	1	0	0	0	3	30
33°	3	2	2	1	1	1	0	0	0	2	30
29°	2	2	2	1	1	0	0	0	0	2	29
25.5°	3	2	2	1	1	0	0	0	0	1	29
22.5°	4	3	2	1	1	0	0	0	0	1	28
19.5°	6	4	3	2	1	1	0	0	0	1	28
17°	7	6	4	2	1	1	0	0	0	1	28
15°	8	6	4	2	1	1	0	0	0	1	28
13°	8	7	5	2	1	1	0	0	0	1	28
11°	9	7	5	3	1	1	0	0	0	1	28
9°	9	7	5	2	1	1	0	0	0	1	28
7°	11	7	5	3	1	1	0	0	0	0	28
5°	13	7	4	2	1	0	0	0	0	0	27
3°	15	7	4	2	1	1	0	0	0	0	27
1°	17	8	4	2	1	1	0	0	0	0	27
0°	17	8	4	2	1	1	0	0	0	0	27
-1°	18	8	4	2	1	1	0	0	0	0	27
-3°	17	8	4	2	1	0	0	0	0	0	27
-5°	16	8	3	1	0	0	0	0	0	0	27
-7°	13	7	3	1	0	0	0	0	0	0	27
-9°	10	6	3	1	0	0	0	0	0	0	28
-11°	9	6	2	1	0	0	0	0	0	1	28
-13°	7	5	2	1	0	0	0	0	0	1	28
-15°	6	4	1	1	0	0	0	0	0	1	28
-17°	5	3	1	1	0	0	0	0	0	1	28
-19.5°	4	2	1	1	0	0	0	0	0	1	28
-22.5°	3	2	1	0	0	0	0	0	0	1	28
-25.5°	2	2	1	1	0	0	0	0	0	1	29
-29°	2	2	1	1	0	0	0	0	0	2	29
-33°	2	2	2	1	1	0	0	0	0	2	30
-37.5°	2	2	2	1	1	0	0	0	0	3	30
-42.5°	2	2	1	1	1	1	0	0	0	3	31
-47.5°	2	1	1	1	1	1	1	0	1	4	32
-55°	1	1	1	1	1	1	1	0	1	10	33
-65°	1	1	1	1	1	1	0	1	3	21	35
-75°	1	1	1	0	0	1	2	4	19	31	38
-85°	3	4	9	15	21	26	29	33	36	38	40
-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)