

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: INVUE

Report Number: P95415

Luminaire Tested: **VFS-K-B40-3-LED-E1-TSB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P95415
REPORT SCALED FROM IESNA LM79-08 TEST DATA (P22807)
Test Lab: INNOVATION CENTER
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VFS-K-B40-3-LED-E1-TSB
Description: ARCHITECTURAL FLOOD LUMINAIRE
TIGHT SPOT BAFFLE DISTRIBUTION
WITH 40 LED'S, 350mA DRIVE CURRENT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	2346.6 lumens	Max Intensity:	40124 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 1°V
Efficacy:	52.1 lumens/watt		
Luminous Opening:	(L: 0.83 ' x W: 0 ' x H: 0.5 ')		
Beam Angle (50%):	13.7°H x 13.4°V	Field Angle (10%):	22.6°H x 22.2°V
Beam Lumens:	1260.3 lumens	Field Lumens:	2058.4 lumens
Beam Efficiency:	53.7%	Field Efficiency:	87.7%

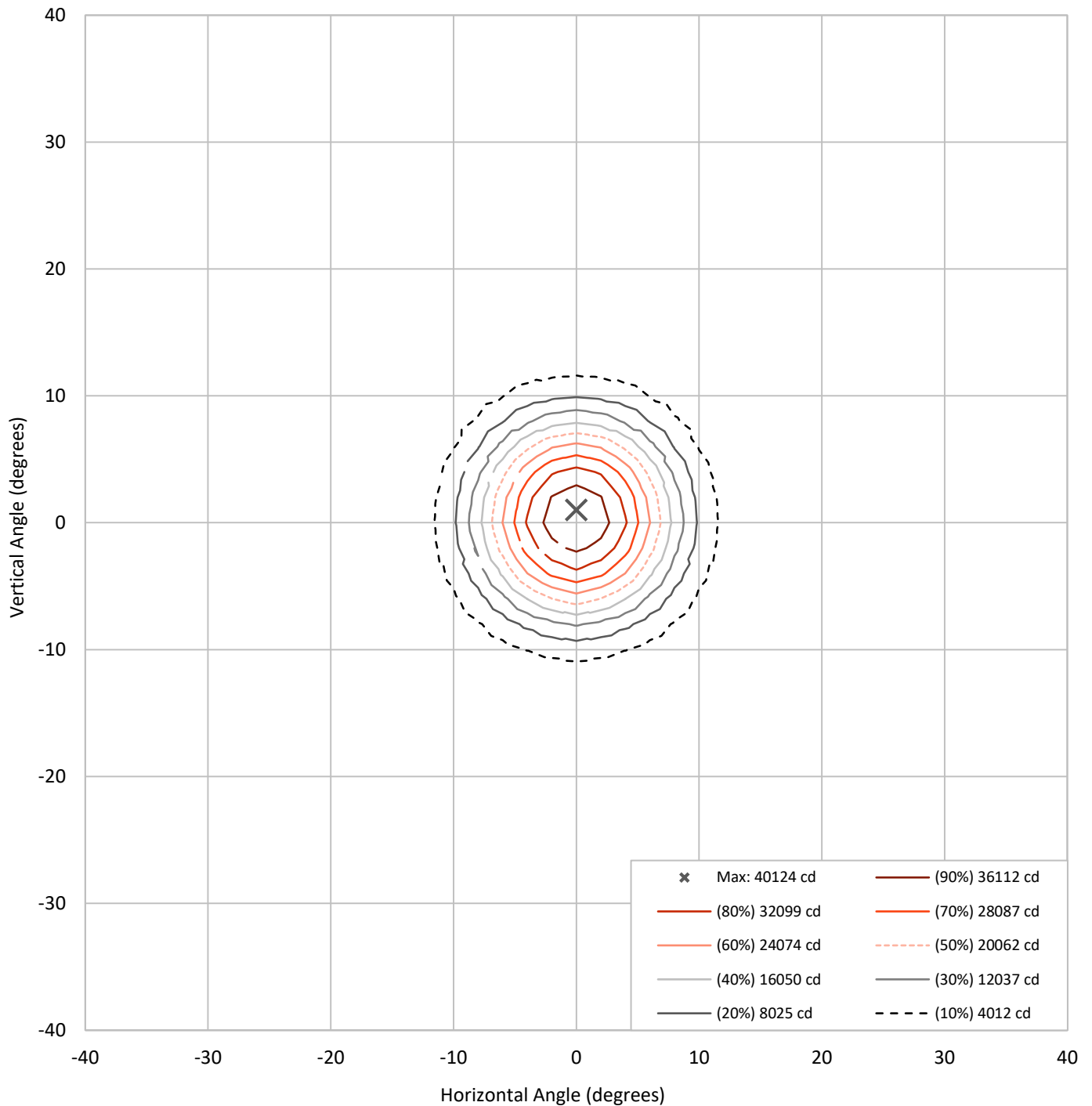
Input Watts (W): 45
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Candela Plot





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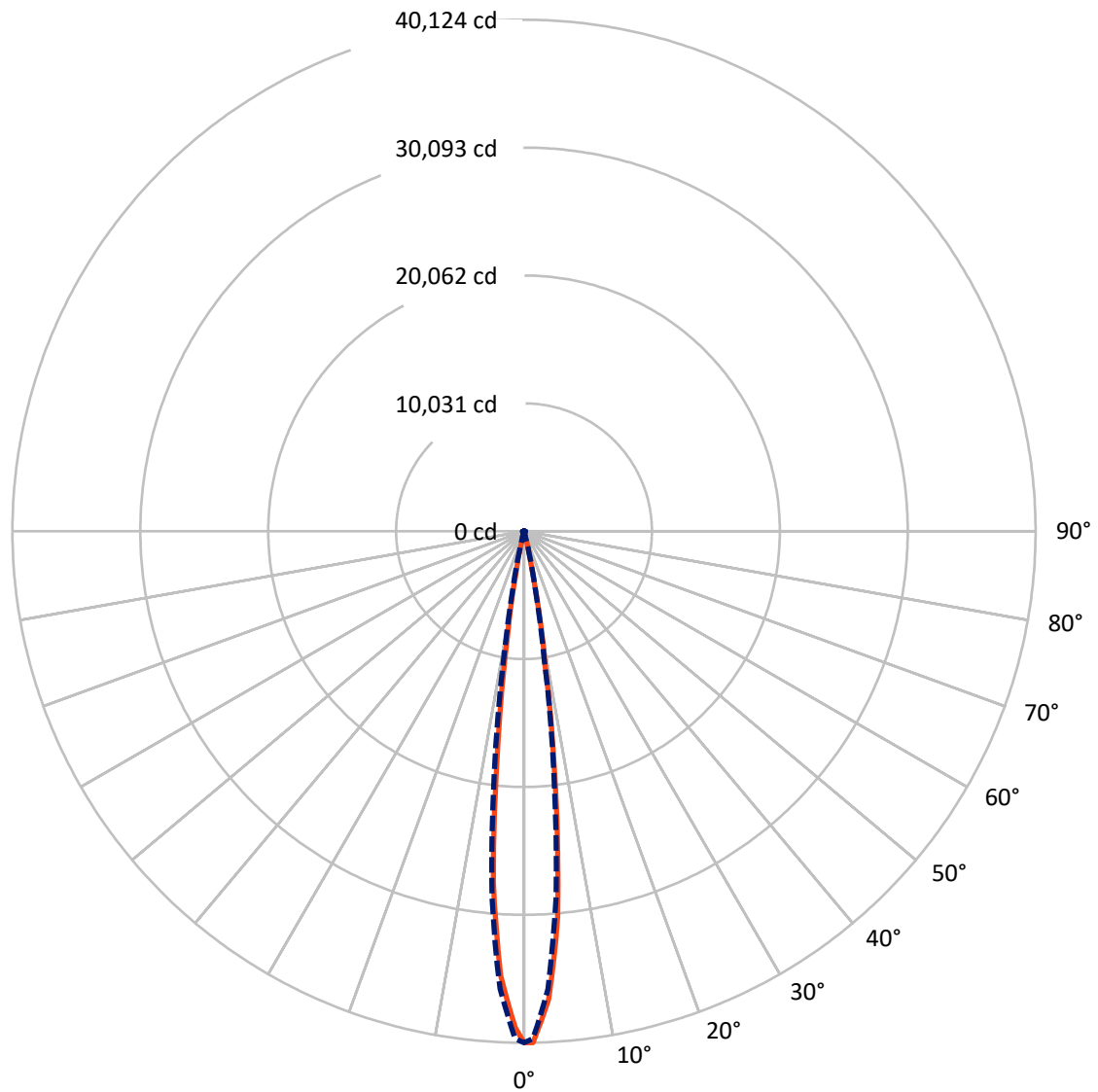
Lumen Table

90	3.0	5.3		3.8		0.8		0.4		0.8		3.8		5.3		3.0			
80	3.0	5.3		3.8		0.8		0.4		0.8		3.8		5.3		3.0			
70	2.1	0.5	0.1	0.1	0.0	0.1	0.2	0.1	0.1	0.2	0.1	0.0	0.1	0.1	0.5	2.1			
60		0.2	0.2	0.1	0.1	0.2	0.3	0.2	0.2	0.3	0.2	0.1	0.1	0.2	0.2				
50	1.3	0.1	0.3	0.1	0.2	0.4	0.4	0.3	0.3	0.4	0.4	0.2	0.1	0.3	0.1	1.3			
40		0.1	0.1	0.1	0.1	0.3	0.4	0.3	0.3	0.4	0.3	0.1	0.1	0.1	0.1				
30	0.9	0.1	0.1	0.0	0.0	0.1	0.3	0.4	0.4	0.3	0.1	0.0	0.0	0.1	0.1	0.9			
20		0.0	0.0	0.0	0.0	0.0	1.3	27.1	27.1	1.3	0.0	0.0	0.0	0.0	0.0				
10	0.8	0.0	0.0	0.0	0.1	0.2	26.9	536.4	536.4	26.9	0.2	0.1	0.0	0.0	0.0	0.8			
0		0.0	0.0	0.1	0.2	0.2	25.1	484.7	484.7	25.1	0.2	0.2	0.1	0.0	0.0				
-10	0.9	0.0	0.0	0.0	0.0	0.1	1.1	17.9	17.9	1.1	0.1	0.0	0.0	0.0	0.0	0.9			
-20		0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.3	0.3	0.2	0.1	0.0	0.0	0.0				
-30	1.3	0.1	0.1	0.1	0.2	0.2	0.4	0.2	0.2	0.4	0.2	0.2	0.1	0.1	0.1	1.3			
-40		0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.1				
-50	2.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	2.1			
-60		0.6	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.6				
-70	3.2	5.9		4.8		2.0		1.4		2.0		4.8		5.9		3.2			
-80		5.9		4.8		2.0		1.4		2.0		4.8		5.9					
-90	3.2	5.9		4.8		2.0		1.4		2.0		4.8		5.9		3.2			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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Luminous Intensity Polar Plot

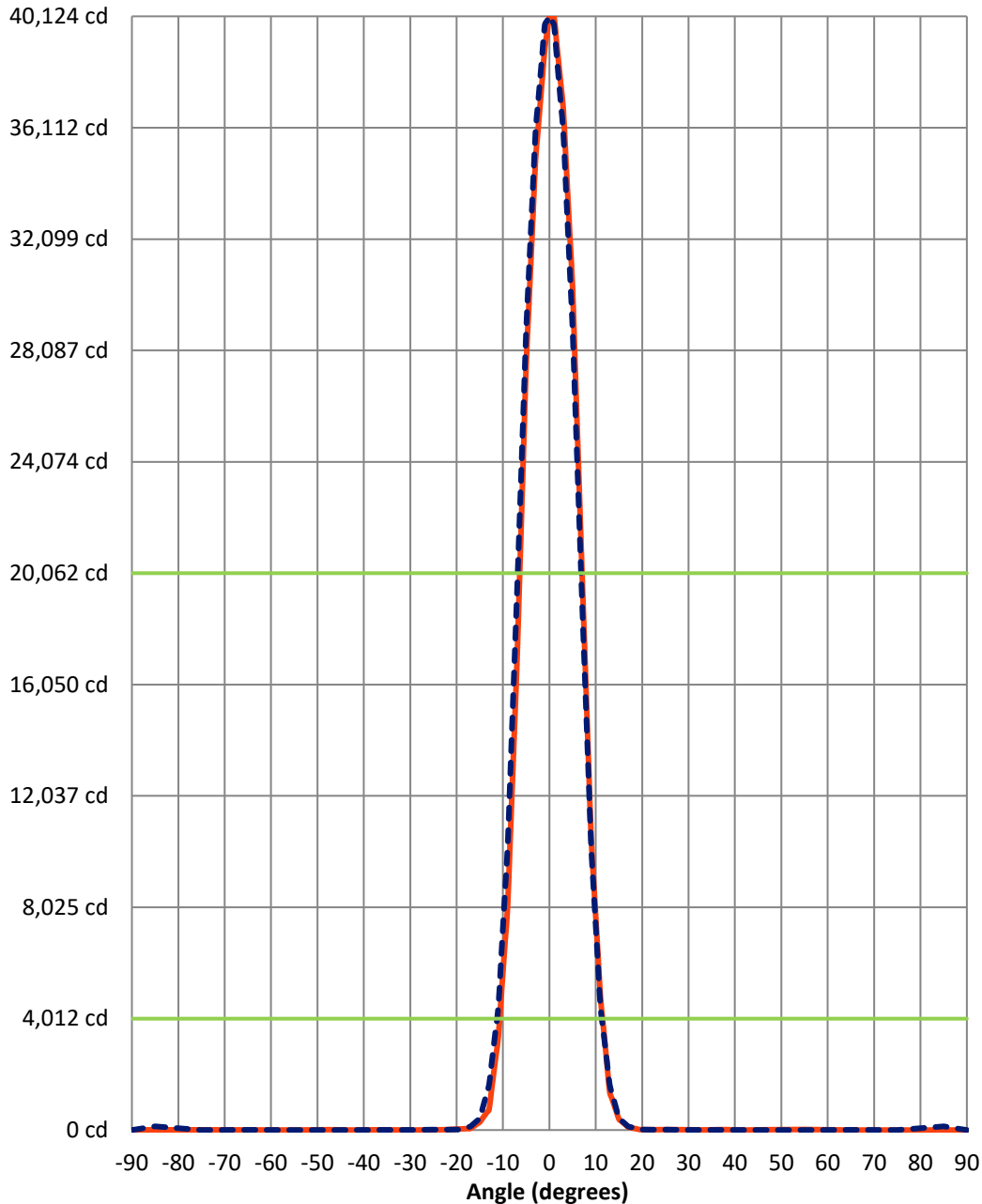


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 1-Deg

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Luminous Intensity Plot



Beam:
H Angle: 13.7°
V Angle: 13.4°
Lumens: 1260.3
Efficiency: 53.7%

Field:
H Angle: 22.6°
V Angle: 22.2°
Lumens: 2058.4
Efficiency: 87.7%

Spill:
Lumens: 288.2
Efficiency: 12.3%

— Vertical Distribution through 0-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	10	6	6	2	2	4	2	4	6	10
75°	0	0	0	4	4	4	0	4	0	0	0
65°	0	0	4	0	10	8	6	6	6	6	8
55°	20	4	2	6	4	10	6	10	10	6	10
47.5°	12	10	4	12	16	20	16	16	20	18	16
42.5°	0	2	2	2	16	12	14	10	12	20	8
37.5°	16	6	2	10	22	10	20	18	14	14	10
33°	4	0	2	8	14	10	18	8	6	10	8
29°	12	14	12	24	31	22	24	22	12	16	16
25.5°	16	2	8	6	16	14	12	10	4	2	2
22.5°	12	6	12	14	12	8	6	12	10	6	2
19.5°	16	24	24	14	18	20	12	12	8	6	6
17°	106	102	92	59	37	22	20	18	12	8	4
15°	391	378	352	264	169	79	24	16	8	8	4
13°	1375	1310	1184	810	531	287	118	43	18	4	4
11°	4817	4646	4170	2937	1745	799	344	136	37	10	4
9°	10537	10149	9120	6664	4154	2083	816	299	94	12	10
7°	20290	20351	17385	12500	7708	4093	1701	570	191	43	14
5°	30343	30298	26811	20052	12635	6463	2856	976	287	73	14
3°	36779	36572	32853	26103	16829	8837	3887	1398	372	114	14
1°	40124	39804	35941	28842	19258	10226	4449	1634	419	130	18
0°	40119	39837	36112	28958	19346	10326	4498	1672	437	136	26
-1°	38952	38671	35319	28207	18678	9978	4351	1607	419	130	14
-3°	34912	34363	31384	24124	15102	8214	3631	1302	356	110	26
-5°	27584	26657	23561	16915	10653	5739	2557	887	246	71	16
-7°	16778	15881	13863	9933	6333	3413	1473	521	157	39	12
-9°	8060	7637	6898	5012	3096	1615	677	258	81	22	8
-11°	3365	3116	2750	1827	1092	580	264	108	31	20	6
-13°	745	684	643	480	336	181	73	20	8	4	0
-15°	285	271	240	175	114	67	31	28	24	12	10
-17°	57	55	45	35	28	24	16	16	8	0	4
-19.5°	37	18	22	24	24	24	10	16	12	8	8
-22.5°	12	12	18	20	18	18	20	20	14	12	12
-25.5°	8	8	10	10	12	16	14	16	12	6	6
-29°	0	0	0	0	0	0	2	4	0	4	0
-33°	4	4	0	8	10	6	16	14	6	6	8
-37.5°	8	2	8	14	14	10	24	16	16	16	16
-42.5°	0	0	2	8	8	10	14	10	6	12	10
-47.5°	12	0	2	2	12	12	8	4	8	10	14
-55°	0	0	0	0	0	2	4	6	2	4	0
-65°	4	2	8	10	12	14	10	14	12	12	10
-75°	8	6	10	18	14	14	6	12	10	16	14
-85°	8	16	22	10	16	14	22	18	22	18	18
-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°	20	26	53	79	104	122	138	159	173	187	205
75°	0	0	4	0	0	2	4	24	94	146	193
65°	6	2	0	2	0	12	4	2	26	102	183
55°	10	6	2	0	4	4	4	8	6	59	169
47.5°	22	18	14	10	6	12	6	28	8	37	169
42.5°	10	8	8	6	2	0	4	12	2	31	159
37.5°	10	10	10	8	6	4	8	10	2	22	157
33°	10	10	8	2	2	0	2	2	0	10	151
29°	22	10	16	10	0	2	14	8	14	16	157
25.5°	2	2	2	0	0	0	0	0	0	4	142
22.5°	0	0	0	0	0	0	0	2	0	4	140
19.5°	0	0	4	0	0	0	0	2	0	0	140
17°	0	0	0	2	0	0	0	2	0	2	138
15°	0	0	0	0	0	0	0	0	0	2	136
13°	0	0	0	0	0	0	0	0	0	0	136
11°	2	0	4	0	0	0	0	0	2	0	136
9°	4	2	0	0	0	0	0	0	0	0	134
7°	14	4	0	4	0	4	0	0	4	0	134
5°	4	10	4	0	2	0	0	0	2	0	130
3°	6	2	0	4	0	0	0	0	0	0	130
1°	12	14	4	4	4	2	0	0	6	0	132
0°	26	22	10	16	6	8	0	8	12	2	136
-1°	12	6	6	6	2	4	0	0	0	0	132
-3°	16	10	8	8	14	10	0	6	0	0	138
-5°	0	4	4	2	4	6	0	0	0	0	136
-7°	8	12	0	10	8	8	0	2	4	0	138
-9°	4	2	2	4	12	8	0	0	0	2	140
-11°	2	4	0	6	0	12	0	0	0	2	140
-13°	0	0	0	0	0	0	0	0	0	0	134
-15°	4	6	2	2	0	0	0	0	2	4	144
-17°	0	4	2	2	2	0	0	0	0	2	140
-19.5°	2	0	8	2	4	2	0	0	2	2	142
-22.5°	10	10	4	0	2	2	2	4	4	6	142
-25.5°	8	10	14	6	6	0	2	4	4	6	144
-29°	0	0	2	0	0	0	0	0	0	4	136
-33°	4	12	8	8	12	0	2	6	8	16	151
-37.5°	12	10	12	10	6	2	12	6	8	24	161
-42.5°	10	14	4	4	2	0	6	8	2	28	161
-47.5°	6	2	8	4	0	4	8	12	2	33	165
-55°	0	4	2	0	0	0	0	0	0	53	165
-65°	8	4	12	12	12	14	14	8	35	114	181
-75°	16	12	22	12	8	10	22	35	104	157	197
-85°	31	39	61	94	114	140	151	173	185	205	218
-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)