

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: P184444

Luminaire Tested: **206-10LED3012**

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: P184444
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: 206-10LED3012
Description: LUMIERE 203, STANDARD RECESSED LENS HOOD BLACK, 12 DEG LED OPTIC,
CLEAR LENS
Light Source: 3000K 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

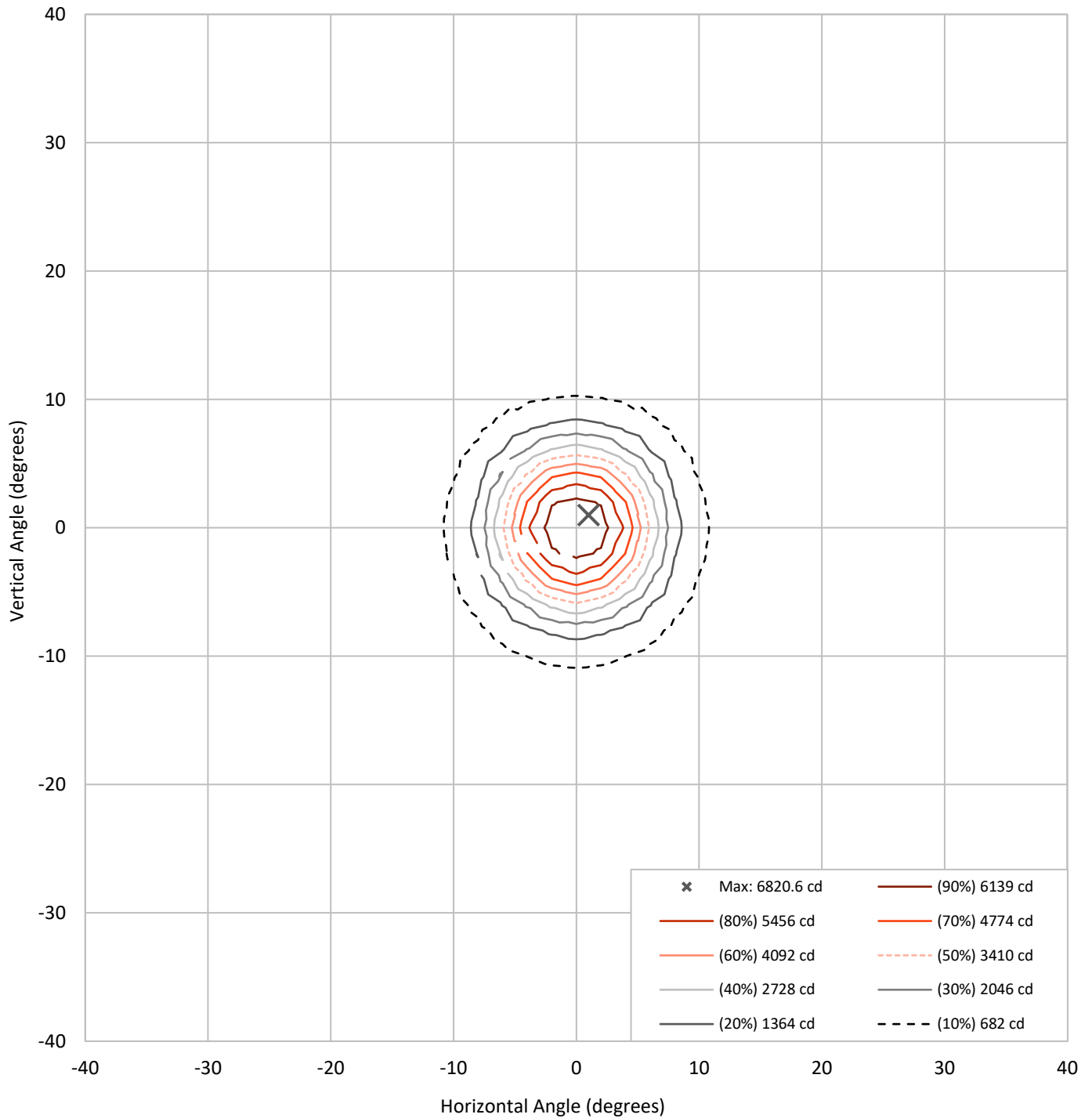
Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	358.5 lumens	Max Intensity:	6820.6 candela
Efficiency:	N/A	Max Intensity Angle:	1°H x 1°V
Efficacy:	38.1 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	11.8°H x 11.6°V	Field Angle (10%):	21.3°H x 21.1°V
Beam Lumens:	158.4 lumens	Field Lumens:	283.4 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





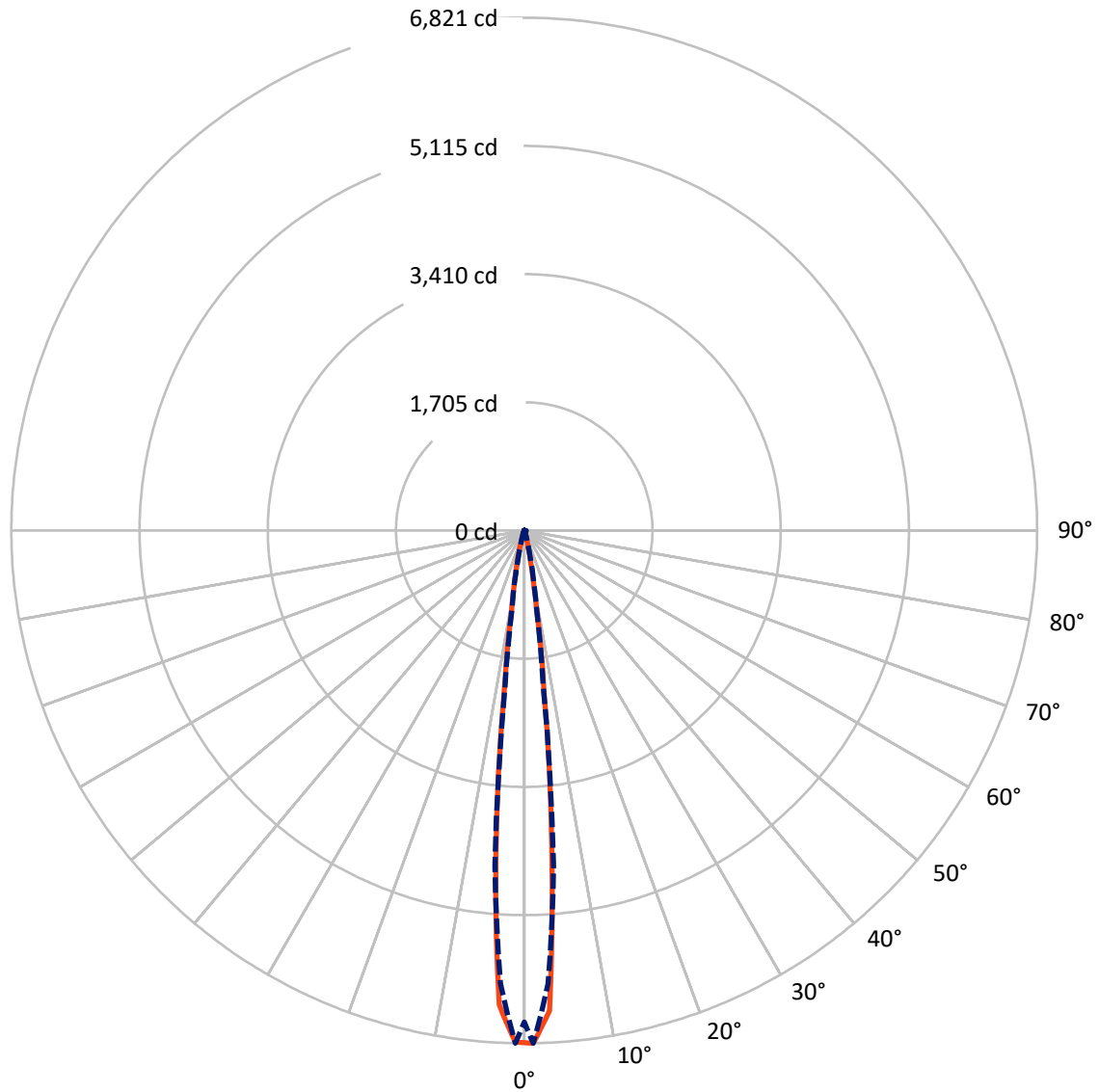
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Lumen Table

90	0.5	0.9	0.7	0.2	0.1	0.2	0.7	0.9	0.5						
80	0.5	0.9	0.7	0.2	0.1	0.2	0.7	0.9	0.5						
70	0.3	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	0.3
60		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.1	0.3	0.3	0.1	0.1	0.0	0.0	0.0	0.2
20		0.0	0.0	0.0	0.0	0.2	1.0	5.0	5.0	1.0	0.2	0.0	0.0	0.0	
10	0.1	0.0	0.0	0.0	0.0	0.3	5.7	71.7	71.7	5.7	0.3	0.0	0.0	0.0	0.1
0		0.0	0.0	0.0	0.0	0.3	6.2	72.2	72.2	6.2	0.3	0.0	0.0	0.0	
-10	0.2	0.0	0.0	0.0	0.0	0.1	1.5	6.0	6.0	1.5	0.1	0.0	0.0	0.0	0.2
-20		0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.3	0.1	0.0	0.0	0.0	0.0	
-30	0.2	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	0.2
-40		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	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
-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	0.3	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	0.3
-80		0.5	0.9	0.7	0.2	0.1	0.2	0.7	0.9	0.5					
-90	0.5	0.9	0.7	0.2	0.1	0.2	0.7	0.9	0.5						

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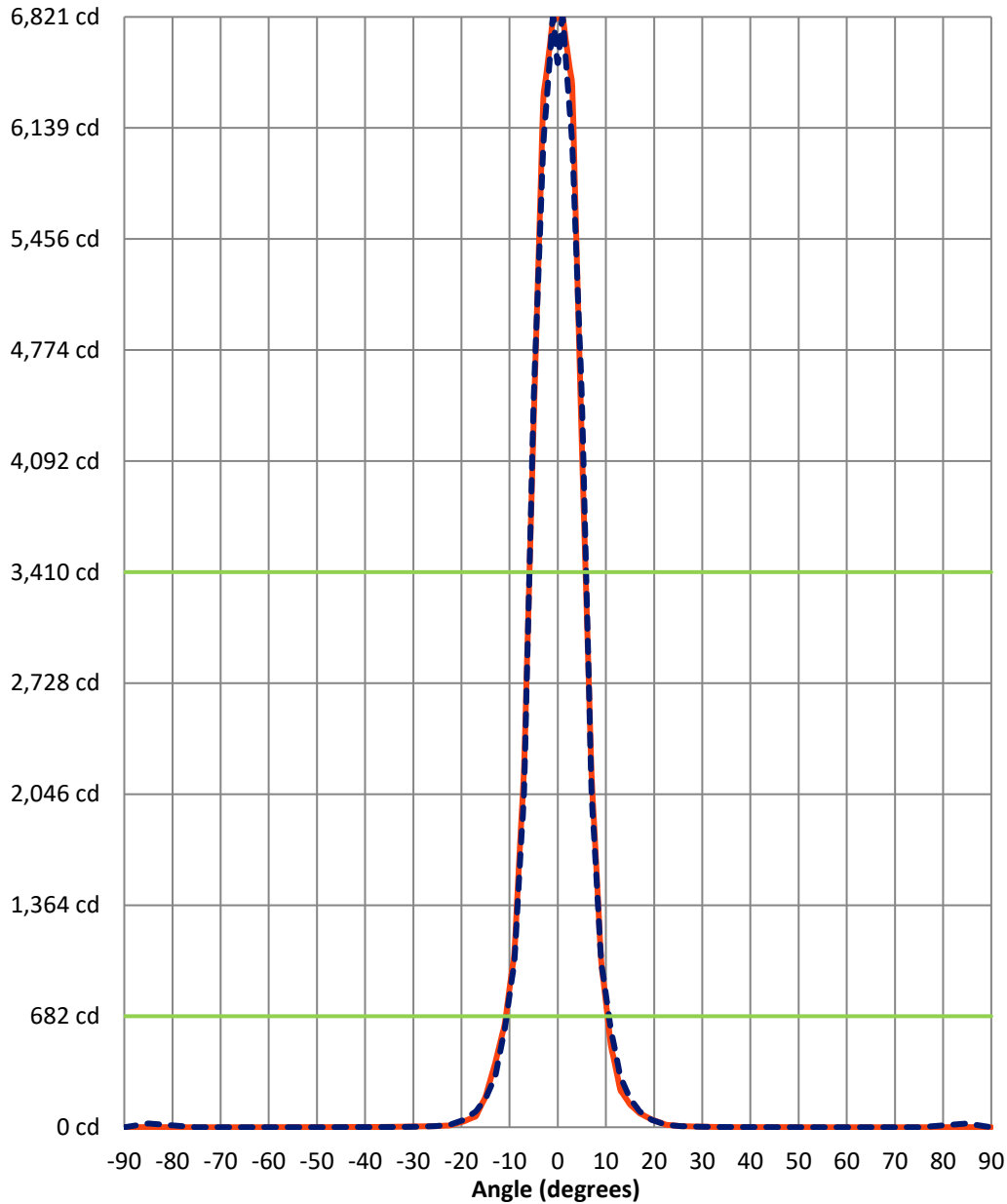
Luminous Intensity Polar Plot



— 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: 158.4
 Efficiency: 44.2%

Field:
 H Angle: 21.3°
 V Angle: 21.1°
 Lumens: 283.4
 Efficiency: 79.1%

Spill:
 Lumens: 75.1
 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	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.9	0.9	1.7
75°	0.0	0.0	0.9	1.7	1.7	0.9	0.9	0.9	0.9	0.9	0.9
65°	0.0	0.0	0.9	0.9	1.7	1.7	1.7	0.9	0.9	0.9	0.9
55°	0.0	0.0	0.0	0.9	1.7	1.7	1.7	1.7	1.7	1.7	0.9
47.5°	0.9	0.9	0.9	0.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7
42.5°	0.9	0.9	0.9	0.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7
37.5°	0.9	0.9	0.9	0.9	1.7	1.7	1.7	1.7	1.7	2.6	2.6
33°	0.9	1.7	1.7	1.7	1.7	1.7	2.6	2.6	2.6	2.6	2.6
29°	4.3	4.3	3.4	4.3	3.4	3.4	3.4	2.6	2.6	2.6	2.6
25.5°	6.9	6.9	6.9	6.9	6.0	6.0	5.2	4.3	3.4	3.4	3.4
22.5°	14.6	15.5	13.8	12.9	11.2	10.3	8.6	6.9	5.2	4.3	4.3
19.5°	46.4	47.3	42.1	42.1	32.7	25.8	18.1	12.0	8.6	6.9	5.2
17°	82.6	86.0	79.1	76.5	61.1	51.6	37.0	24.9	15.5	9.5	6.9
15°	133.3	140.2	126.4	123.8	92.0	74.0	55.9	39.6	24.9	14.6	7.7
13°	219.3	228.8	201.2	191.8	185.8	153.9	85.1	52.5	37.0	23.2	10.3
11°	485.9	508.3	446.3	405.1	283.8	194.4	162.5	74.0	47.3	33.5	15.5
9°	985.6	1026.0	838.5	712.1	489.3	357.8	245.1	153.9	60.2	42.1	22.4
7°	2100.1	2173.2	1674.4	1269.4	760.2	516.9	356.0	221.0	110.9	50.7	28.4
5°	4073.8	4187.3	3237.9	2276.4	1185.1	699.2	457.5	272.6	155.7	63.6	33.5
3°	6099.9	6395.8	5100.6	3612.8	1711.4	891.8	550.4	301.9	166.8	85.1	39.6
1°	6536.8	6820.6	6035.4	4474.6	2068.3	1022.5	605.4	310.5	176.3	98.0	45.6
0°	6579.8	6813.7	6127.5	4585.5	2117.3	1050.1	614.9	314.8	164.3	96.3	50.7
-1°	6558.3	6803.4	6025.1	4436.7	2039.0	1031.1	614.0	304.4	215.9	149.6	52.5
-3°	6103.4	6318.4	5055.1	3548.3	1652.9	909.9	560.7	267.5	208.1	150.5	52.5
-5°	4349.0	4343.8	3275.7	2268.7	1188.5	728.4	440.3	247.7	169.4	93.7	49.0
-7°	2217.9	2207.6	1701.9	1297.7	800.7	537.5	314.8	222.7	160.8	83.4	42.1
-9°	1055.2	1076.7	914.2	781.7	524.6	351.7	236.5	219.3	130.7	68.8	32.7
-11°	618.3	635.5	555.6	498.8	316.5	231.3	202.1	158.2	80.8	51.6	21.5
-13°	384.4	393.9	333.7	267.5	187.5	184.9	158.2	86.0	56.8	32.7	12.9
-15°	187.5	188.3	157.4	150.5	129.9	96.3	80.8	55.0	32.7	17.2	8.6
-17°	65.4	67.9	64.5	70.5	61.9	56.8	43.9	28.4	15.5	9.5	6.0
-19.5°	35.3	36.1	33.5	32.7	25.8	23.2	17.2	11.2	7.7	6.0	5.2
-22.5°	11.2	11.2	12.0	11.2	9.5	9.5	7.7	6.0	5.2	4.3	3.4
-25.5°	6.9	6.9	6.9	6.9	6.0	6.0	5.2	4.3	3.4	3.4	2.6
-29°	5.2	5.2	5.2	5.2	4.3	4.3	4.3	3.4	3.4	2.6	2.6
-33°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.6	2.6	2.6	2.6
-37.5°	1.7	1.7	1.7	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
-42.5°	1.7	1.7	1.7	1.7	1.7	2.6	2.6	2.6	2.6	2.6	1.7
-47.5°	0.9	0.9	0.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
-55°	0.0	0.9	0.9	0.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7
-65°	0.0	0.0	0.9	1.7	1.7	1.7	1.7	1.7	0.9	0.9	0.9
-75°	0.0	0.0	0.9	1.7	1.7	0.9	0.9	0.9	0.9	0.9	0.9
-85°	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.9	0.9	1.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.6	3.4	7.7	12.0	17.2	20.6	24.1	26.7	29.2	31.8	33.5
75°	0.9	0.9	0.9	0.0	0.0	0.9	1.7	3.4	16.3	25.8	31.8
65°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	2.6	18.1	30.1
55°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.9	8.6	28.4
47.5°	1.7	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	3.4	27.5
42.5°	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.0	0.0	2.6	26.7
37.5°	1.7	1.7	1.7	0.9	0.9	0.9	0.0	0.0	0.0	2.6	25.8
33°	2.6	1.7	1.7	0.9	0.9	0.9	0.0	0.0	0.0	1.7	25.8
29°	1.7	1.7	1.7	0.9	0.9	0.0	0.0	0.0	0.0	1.7	24.9
25.5°	2.6	1.7	1.7	0.9	0.9	0.0	0.0	0.0	0.0	0.9	24.9
22.5°	3.4	2.6	1.7	0.9	0.9	0.0	0.0	0.0	0.0	0.9	24.1
19.5°	5.2	3.4	2.6	1.7	0.9	0.9	0.0	0.0	0.0	0.9	24.1
17°	6.0	5.2	3.4	1.7	0.9	0.9	0.0	0.0	0.0	0.9	24.1
15°	6.9	5.2	3.4	1.7	0.9	0.9	0.0	0.0	0.0	0.9	24.1
13°	6.9	6.0	4.3	1.7	0.9	0.9	0.0	0.0	0.0	0.9	24.1
11°	7.7	6.0	4.3	2.6	0.9	0.9	0.0	0.0	0.0	0.9	24.1
9°	7.7	6.0	4.3	1.7	0.9	0.9	0.0	0.0	0.0	0.9	24.1
7°	9.5	6.0	4.3	2.6	0.9	0.9	0.0	0.0	0.0	0.0	24.1
5°	11.2	6.0	3.4	1.7	0.9	0.0	0.0	0.0	0.0	0.0	23.2
3°	12.9	6.0	3.4	1.7	0.9	0.9	0.0	0.0	0.0	0.0	23.2
1°	14.6	6.9	3.4	1.7	0.9	0.9	0.0	0.0	0.0	0.0	23.2
0°	14.6	6.9	3.4	1.7	0.9	0.9	0.0	0.0	0.0	0.0	23.2
-1°	15.5	6.9	3.4	1.7	0.9	0.9	0.0	0.0	0.0	0.0	23.2
-3°	14.6	6.9	3.4	1.7	0.9	0.0	0.0	0.0	0.0	0.0	23.2
-5°	13.8	6.9	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	23.2
-7°	11.2	6.0	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	23.2
-9°	8.6	5.2	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	24.1
-11°	7.7	5.2	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.9	24.1
-13°	6.0	4.3	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.9	24.1
-15°	5.2	3.4	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.9	24.1
-17°	4.3	2.6	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.9	24.1
-19.5°	3.4	1.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.9	24.1
-22.5°	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.9	24.1
-25.5°	1.7	1.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.9	24.9
-29°	1.7	1.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0	1.7	24.9
-33°	1.7	1.7	1.7	0.9	0.9	0.0	0.0	0.0	0.0	1.7	25.8
-37.5°	1.7	1.7	1.7	0.9	0.9	0.0	0.0	0.0	0.0	2.6	25.8
-42.5°	1.7	1.7	0.9	0.9	0.9	0.9	0.0	0.0	0.0	2.6	26.7
-47.5°	1.7	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.9	3.4	27.5
-55°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.9	8.6	28.4
-65°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.9	2.6	18.1	30.1
-75°	0.9	0.9	0.9	0.0	0.0	0.9	1.7	3.4	16.3	26.7	32.7
-85°	2.6	3.4	7.7	12.9	18.1	22.4	24.9	28.4	31.0	32.7	34.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°
90°	0.0
85°	0.0
75°	0.0
65°	0.0
55°	0.0
47.5°	0.0
42.5°	0.0
37.5°	0.0
33°	0.0
29°	0.0
25.5°	0.0
22.5°	0.0
19.5°	0.0
17°	0.0
15°	0.0
13°	0.0
11°	0.0
9°	0.0
7°	0.0
5°	0.0
3°	0.0
1°	0.0
0°	0.0
-1°	0.0
-3°	0.0
-5°	0.0
-7°	0.0
-9°	0.0
-11°	0.0
-13°	0.0
-15°	0.0
-17°	0.0
-19.5°	0.0
-22.5°	0.0
-25.5°	0.0
-29°	0.0
-33°	0.0
-37.5°	0.0
-42.5°	0.0
-47.5°	0.0
-55°	0.0
-65°	0.0
-75°	0.0
-85°	0.0
-90°	0.0

(END OF REPORT)