Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P185944

Luminaire Tested: **206-10LED3041**

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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-35-02
Report Number:	P185944
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26956)
Test Lab:	INNOVATION CENTER-P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	LUMIERE
Catalog Number:	206-10LED3041
Description:	LUMIERE 203, STANDARD RECESSED LENS HOOD BLACK, 41 DEG LED OPTIC, CLEAR LENS
Light Source:	3000K 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:	4H x 4V
Luminaire Lumens:	262.3 lumens	Max Intensity:	1008.8 candela
Efficiency:	N/A	Max Intensity Angle:	1°H x 3°V
Efficacy:	28.2 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		

Beam Angle (50%):	24.9°H x 26.1°V	Field Angle (10%):	50.3°H x 50.6°V
Beam Lumens:	104.5 lumens	Field Lumens:	229.5 lumens
Beam Efficiency:	39.8%	Field Efficiency:	87.5%

Input Watts (W):	9.3
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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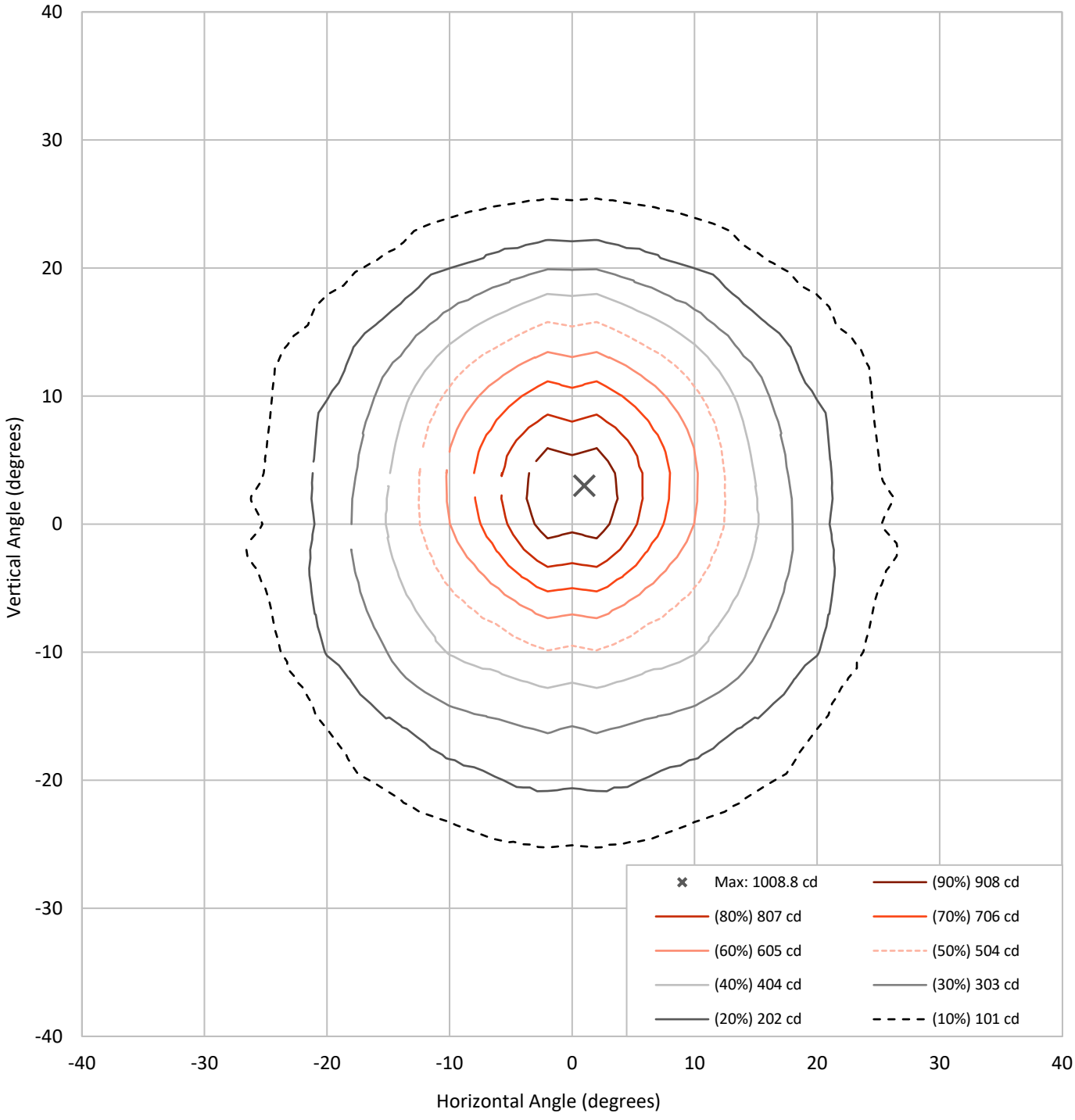
CATALOG NUMBER: 206-10LED3041

Iso-Candela Plot



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Lumen Table

Vertical Angle (degrees)	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
90	0.1	0.2	0.2	0.1	0.0	0.1	0.2	0.2	0.1										
80	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
70	0.1	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	0.0	0.0	0.0	0.0	0.1
60	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
50	0.1	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
40	0.0	0.0	0.1	0.3	0.6	1.6	3.4	3.4	1.6	0.6	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.1	0.4	2.0	7.1	14.3	14.3	7.1	2.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.1	0.4	3.2	11.7	23.9	23.9	11.7	3.2	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.1	0.3	3.1	10.8	19.3	19.3	10.8	3.1	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	0.0	0.0	0.1	0.1	1.3	6.1	9.8	9.8	6.1	1.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-10	0.0	0.0	0.0	0.1	0.3	1.5	3.2	3.2	1.5	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-20	0.0	0.0	0.0	0.1	0.1	0.3	0.7	0.7	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-30	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	0.0	0.0	0.0	0.0	0.0	0.1
-40	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
-50	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
-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	0.0	0.0	0.0	0.0	0.0	0.0	0.1
-70	0.1	0.2	0.2	0.1	0.0	0.1	0.2	0.2	0.1										
-80																			
-90																			

Horizontal Angle (degrees)

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Scaled Data Report

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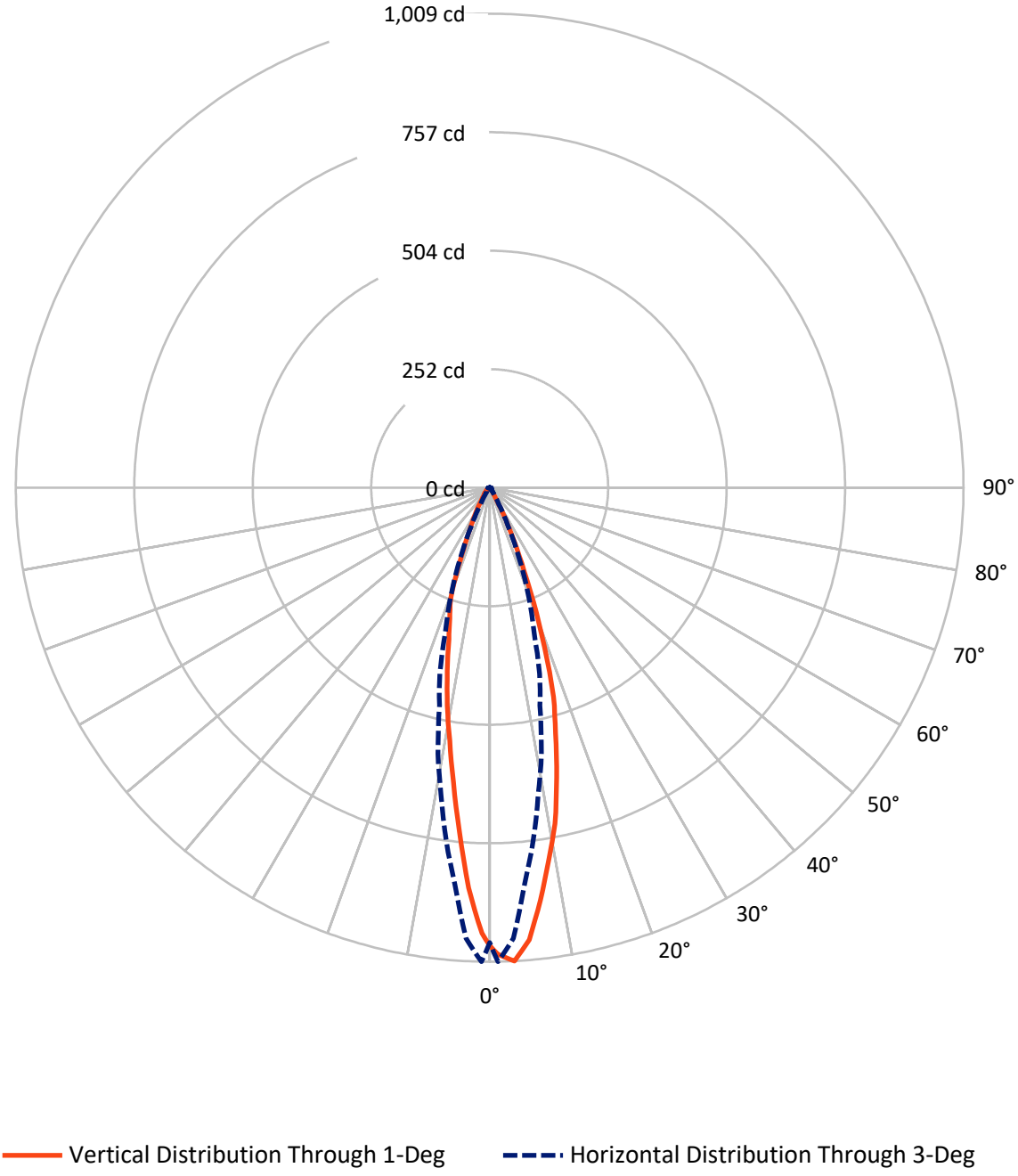
CATALOG NUMBER: 206-10LED3041

Luminous Intensity Polar Plot



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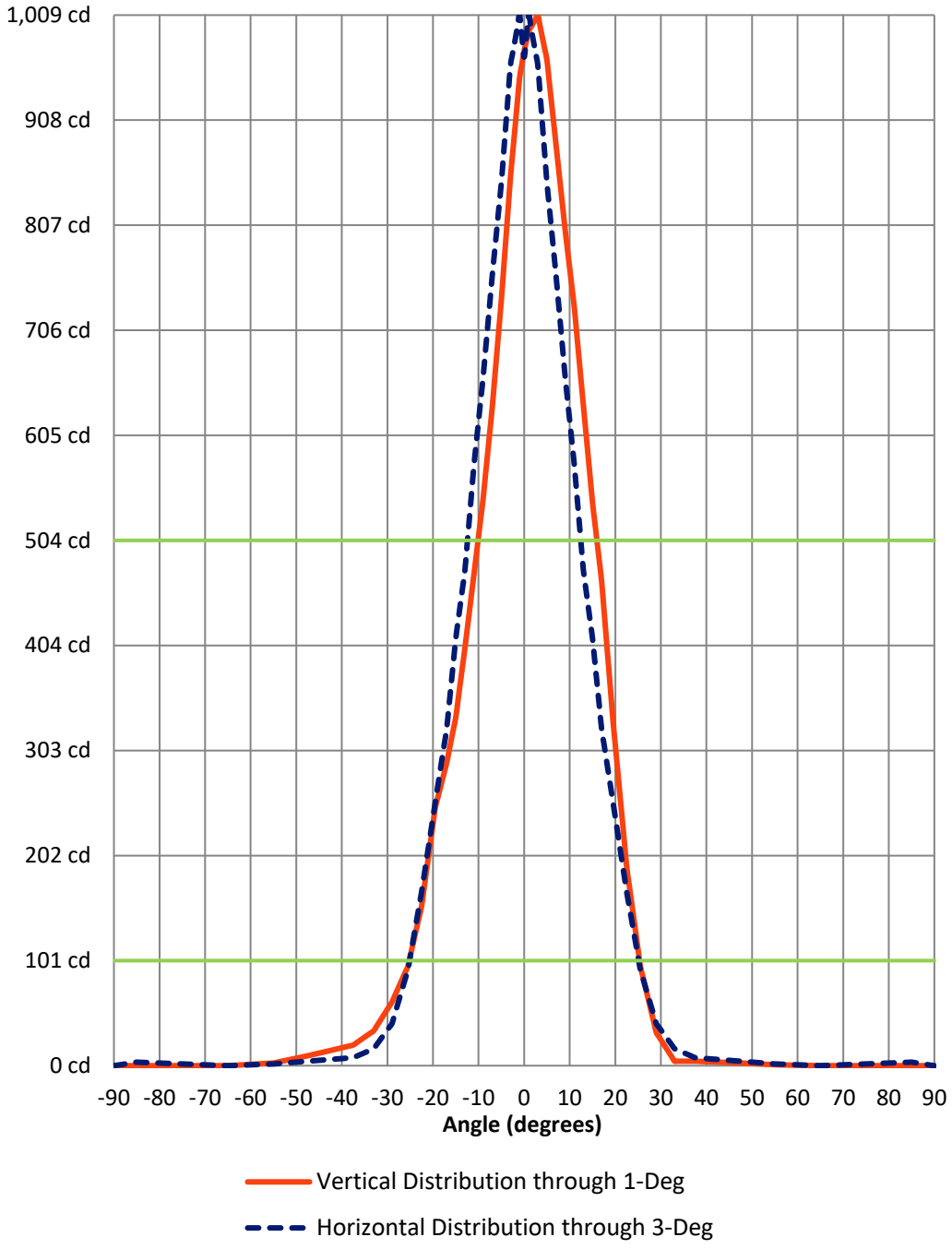
Luminous Intensity Plot



Beam:

H Angle:	24.9°
V Angle:	26.1°
Lumens:	104.5
Efficiency:	39.8%

Field:

H Angle:	50.3°
V Angle:	50.6°
Lumens:	229.5
Efficiency:	87.5%

Spill:

Lumens:	32.8
Efficiency:	12.5%

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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	0.0	0.9	0.0	0.0	0.0	0.0	0.9	0.9	1.7	1.7
75°	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
55°	0.9	0.9	0.9	0.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7
47.5°	2.6	2.6	2.6	2.6	3.4	3.4	3.4	3.4	3.4	3.4	3.4
42.5°	3.4	3.4	3.4	3.4	3.4	4.3	4.3	4.3	4.3	4.3	5.2
37.5°	3.4	4.3	4.3	4.3	4.3	5.2	5.2	5.2	5.2	6.0	6.9
33°	4.3	4.3	4.3	4.3	5.2	6.0	6.0	6.9	6.9	7.7	7.7
29°	30.1	31.8	30.1	26.7	24.1	20.6	18.1	16.3	14.6	12.0	12.0
25.5°	90.3	95.5	93.7	83.4	77.4	67.9	55.0	43.9	37.0	30.1	24.9
22.5°	182.3	190.9	181.5	160.8	167.7	135.0	139.3	97.2	76.5	55.9	43.0
19.5°	318.2	331.1	310.5	266.6	246.0	212.4	215.9	176.3	119.5	121.3	68.8
17°	447.2	465.3	448.9	394.7	366.4	307.9	270.0	213.3	202.1	132.4	131.6
15°	516.9	540.9	528.0	473.9	450.6	393.0	346.6	279.5	225.3	209.0	145.3
13°	608.0	633.8	616.6	557.3	524.6	466.1	416.2	338.0	276.9	242.5	153.1
11°	698.3	728.4	706.1	641.6	600.3	527.2	470.4	387.0	325.1	262.3	178.0
9°	766.3	802.4	776.6	711.2	664.8	579.6	520.3	425.7	356.0	279.5	237.4
7°	848.8	884.1	849.7	771.4	714.7	625.2	556.4	448.9	378.4	294.1	244.2
5°	930.5	965.8	924.5	822.2	749.9	654.5	575.3	467.8	393.9	307.9	247.7
3°	968.4	1008.8	960.6	848.0	758.5	661.3	577.1	475.6	410.2	323.4	252.8
1°	952.9	993.3	943.4	834.2	738.7	650.2	572.8	474.7	416.2	337.1	257.1
0°	930.5	974.4	922.8	818.7	725.0	639.8	567.6	473.0	415.4	338.8	248.5
-1°	904.7	948.6	891.8	794.6	701.8	623.5	555.6	466.1	410.2	337.1	262.3
-3°	814.4	853.1	807.5	719.0	643.3	580.5	516.0	443.8	397.3	324.2	262.3
-5°	702.6	735.3	695.7	634.7	572.8	527.2	478.2	415.4	376.7	302.7	256.3
-7°	604.6	632.1	602.9	556.4	511.7	479.0	438.6	389.6	355.2	284.7	244.2
-9°	518.6	544.4	522.0	485.9	454.9	440.3	407.6	366.4	327.7	261.4	228.8
-11°	449.8	472.1	458.4	426.6	409.4	402.5	381.0	339.7	296.7	228.8	213.3
-13°	382.7	400.8	387.9	373.2	356.9	356.0	326.8	291.5	246.0	213.3	154.8
-15°	316.5	334.5	326.8	311.3	299.3	289.8	260.6	228.8	193.5	183.2	136.7
-17°	276.9	290.7	284.7	268.3	251.1	239.1	207.3	180.6	179.7	143.6	83.4
-19.5°	234.8	247.7	238.2	217.6	196.9	180.6	189.2	163.4	112.7	118.7	60.2
-22.5°	146.2	153.1	147.9	160.8	147.9	123.0	107.5	93.7	71.4	48.2	31.0
-25.5°	90.3	95.5	91.2	80.8	71.4	62.8	49.9	42.1	32.7	24.1	15.5
-29°	57.6	61.1	56.8	49.0	43.9	35.3	29.2	24.1	17.2	12.9	9.5
-33°	31.8	33.5	31.0	27.5	24.1	19.8	16.3	13.8	11.2	8.6	6.9
-37.5°	18.9	19.8	18.9	17.2	15.5	13.8	12.0	10.3	9.5	7.7	6.9
-42.5°	13.8	14.6	13.8	12.9	12.0	10.3	10.3	8.6	7.7	6.9	6.0
-47.5°	8.6	9.5	8.6	7.7	7.7	6.9	6.9	6.0	5.2	5.2	4.3
-55°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	1.7	1.7	1.7	1.7
-65°	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
-75°	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
-85°	0.0	0.0	0.9	0.9	0.0	0.0	0.0	0.9	1.7	1.7	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	2.6	2.6	3.4	3.4	3.4	3.4	4.3	4.3	4.3	5.2
75°	0.0	0.0	0.0	0.9	0.9	1.7	1.7	2.6	3.4	4.3	4.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.7	2.6	3.4	4.3
55°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.9	1.7	2.6	4.3
47.5°	3.4	2.6	2.6	1.7	0.9	0.9	0.0	0.0	0.9	2.6	4.3
42.5°	5.2	5.2	4.3	3.4	2.6	1.7	0.9	0.0	0.9	2.6	4.3
37.5°	6.9	6.9	6.9	6.0	4.3	2.6	0.9	0.0	0.9	2.6	4.3
33°	9.5	9.5	9.5	8.6	6.9	3.4	1.7	0.0	0.9	2.6	4.3
29°	12.9	12.0	12.0	11.2	9.5	5.2	2.6	0.9	0.9	1.7	4.3
25.5°	21.5	18.1	16.3	14.6	11.2	6.9	3.4	0.9	0.0	1.7	4.3
22.5°	35.3	28.4	21.5	17.2	12.0	7.7	4.3	0.9	0.0	1.7	4.3
19.5°	54.2	42.1	28.4	19.8	12.9	7.7	4.3	0.9	0.0	1.7	3.4
17°	71.4	55.0	35.3	20.6	12.0	8.6	4.3	0.9	0.0	1.7	3.4
15°	86.9	65.4	37.8	20.6	12.0	7.7	4.3	0.9	0.0	1.7	3.4
13°	137.6	69.7	39.6	20.6	11.2	7.7	4.3	0.9	0.0	1.7	3.4
11°	144.5	73.1	39.6	19.8	11.2	7.7	4.3	1.7	0.0	1.7	3.4
9°	148.8	76.5	40.4	18.9	10.3	7.7	4.3	1.7	0.0	1.7	3.4
7°	153.1	81.7	40.4	18.1	9.5	6.9	4.3	1.7	0.0	1.7	3.4
5°	160.0	87.7	39.6	17.2	8.6	6.9	4.3	1.7	0.0	1.7	3.4
3°	*166.8*	*92.0*	*40.4*	*16.3*	*7.7*	*6.0*	*4.3*	*1.7*	*0.0*	*1.7*	*3.4*
1°	161.7	141.0	38.7	16.3	6.9	6.0	4.3	1.7	0.0	1.7	3.4
0°	156.5	94.6	39.6	15.5	6.9	6.0	3.4	1.7	0.0	1.7	3.4
-1°	156.5	140.2	38.7	15.5	6.0	5.2	3.4	0.9	0.0	1.7	3.4
-3°	172.9	117.8	37.0	14.6	6.0	5.2	3.4	0.9	0.0	1.7	3.4
-5°	166.8	81.7	34.4	13.8	5.2	5.2	3.4	0.9	0.0	1.7	3.4
-7°	159.1	67.9	30.1	12.0	5.2	4.3	3.4	0.9	0.0	1.7	3.4
-9°	148.8	56.8	25.8	10.3	4.3	4.3	3.4	0.9	0.0	1.7	3.4
-11°	121.3	49.0	22.4	7.7	4.3	4.3	2.6	0.9	0.0	1.7	3.4
-13°	74.8	39.6	18.1	5.2	4.3	4.3	2.6	0.9	0.0	1.7	3.4
-15°	60.2	31.8	13.8	4.3	4.3	3.4	2.6	0.9	0.0	1.7	3.4
-17°	49.0	24.1	8.6	3.4	3.4	3.4	2.6	0.9	0.0	1.7	3.4
-19.5°	32.7	13.8	5.2	3.4	3.4	3.4	1.7	0.9	0.0	1.7	3.4
-22.5°	15.5	7.7	4.3	3.4	3.4	2.6	1.7	0.9	0.0	1.7	3.4
-25.5°	9.5	6.0	4.3	4.3	3.4	2.6	1.7	0.9	0.0	1.7	4.3
-29°	6.9	5.2	4.3	4.3	3.4	2.6	1.7	0.0	0.9	2.6	4.3
-33°	6.0	5.2	4.3	3.4	2.6	1.7	0.9	0.0	0.9	2.6	4.3
-37.5°	6.0	5.2	4.3	3.4	2.6	1.7	0.9	0.0	0.9	2.6	4.3
-42.5°	5.2	4.3	3.4	2.6	1.7	0.9	0.0	0.0	0.9	2.6	4.3
-47.5°	3.4	2.6	2.6	1.7	0.9	0.0	0.0	0.0	0.9	2.6	4.3
-55°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.9	1.7	3.4	4.3
-65°	0.9	0.0	0.0	0.0	0.0	0.0	0.9	1.7	2.6	3.4	4.3
-75°	0.0	0.0	0.0	0.9	0.9	1.7	2.6	2.6	3.4	4.3	4.3
-85°	2.6	2.6	3.4	3.4	3.4	4.3	4.3	4.3	4.3	4.3	5.2
-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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Scaled Data Report

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CATALOG NUMBER: 206-10LED3041

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)