

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



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: LUMIERE

Report Number: P220314 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-M-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220314 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29410)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-M-WT-L1-UNV
Description: LUMIERE LANterra 1002 LED ACCENT/PATH/SIGN LUMINAIRE, RECESSED LENS,
MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

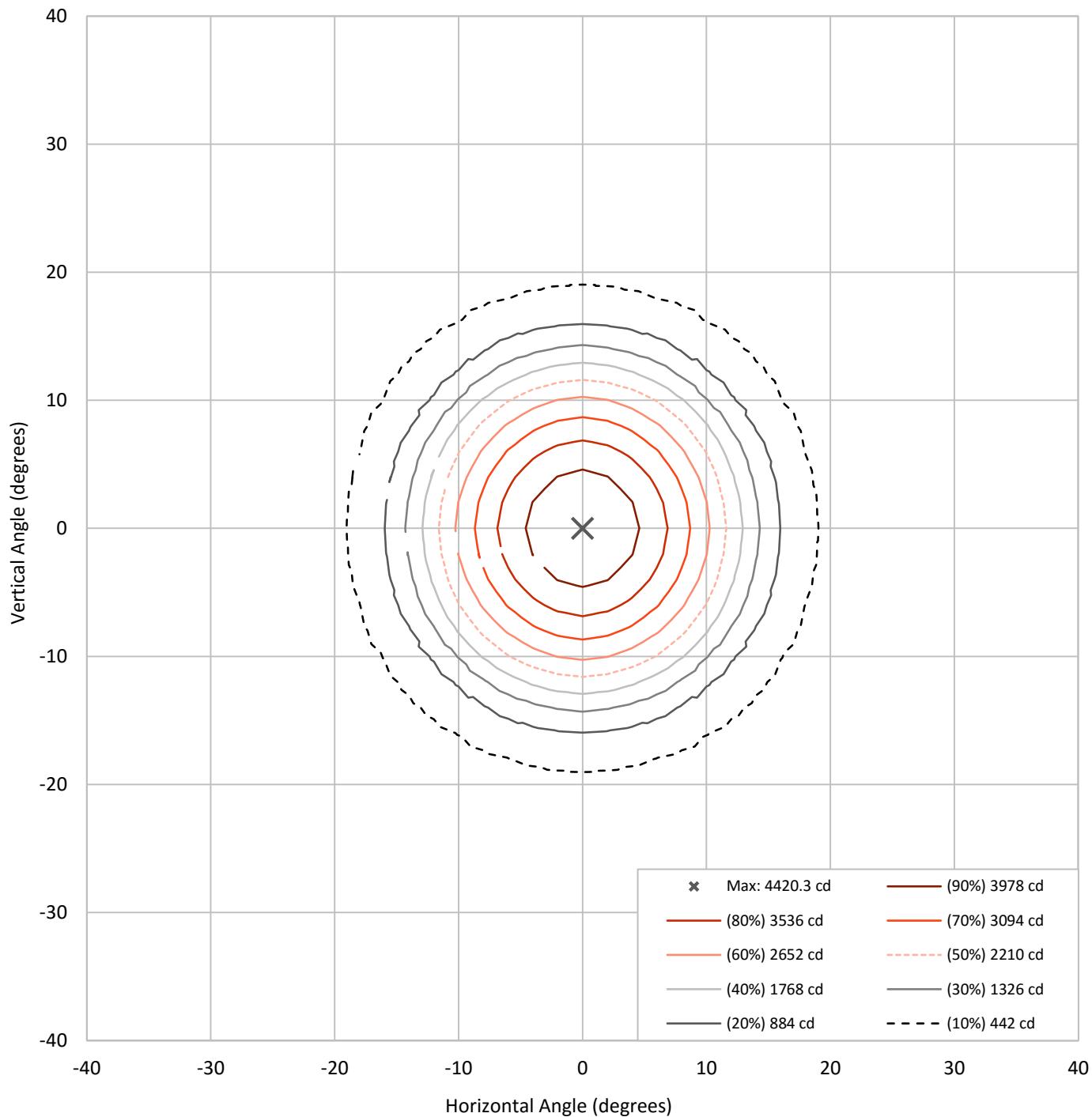
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	788.8 lumens	Max Intensity:	4420.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	78.9 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	23.2°H x 23.2°V	Field Angle (10%):	38.1°H x 38.1°V
Beam Lumens:	413.8 lumens	Field Lumens:	638.4 lumens
Beam Efficiency:	52.5%	Field Efficiency:	80.9%
Input Watts (W):	10		
Input Voltage (V):	120		
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:	25 FT		



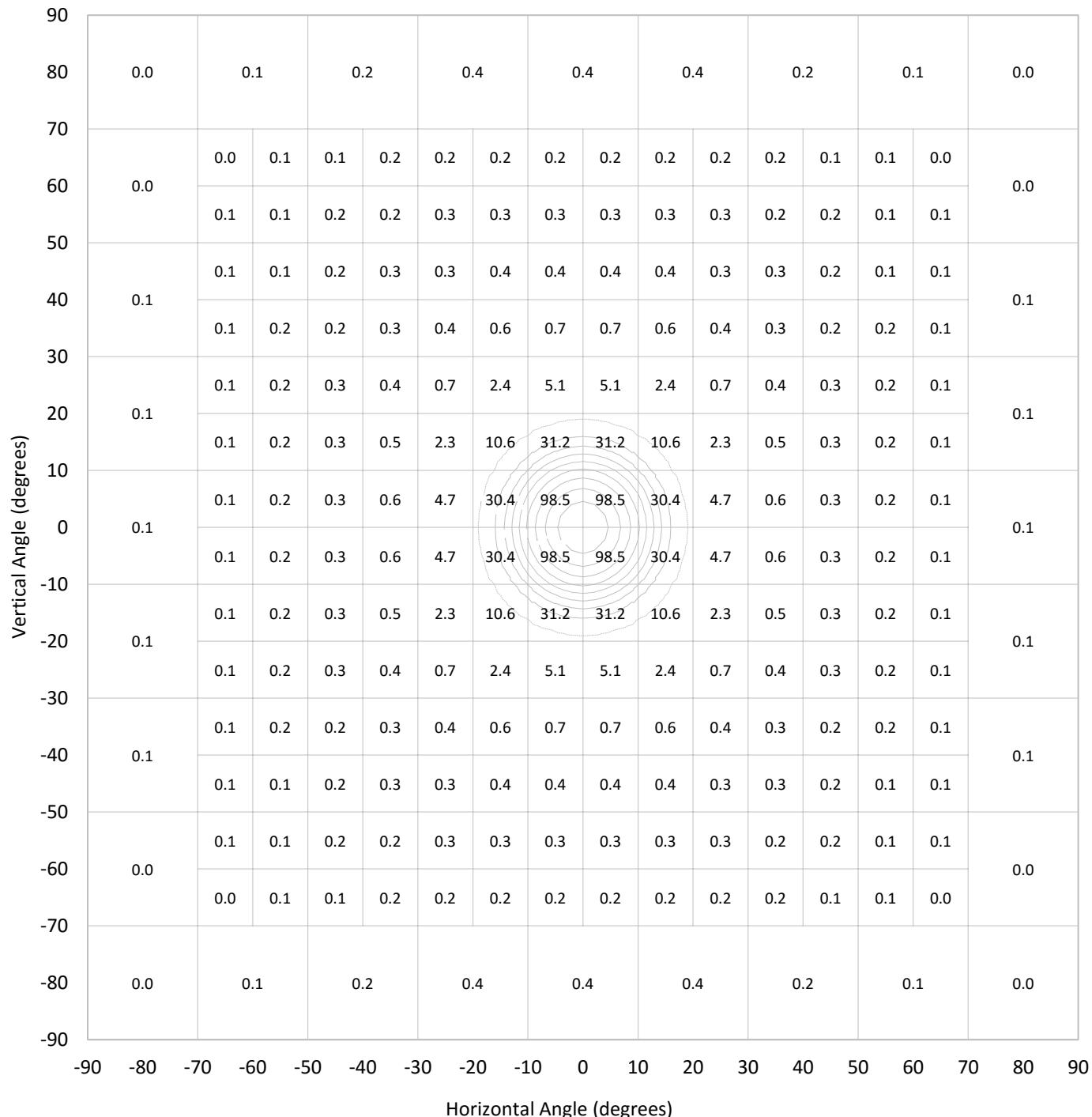
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CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-M-WT-L1-UNV

Iso-Candela Plot



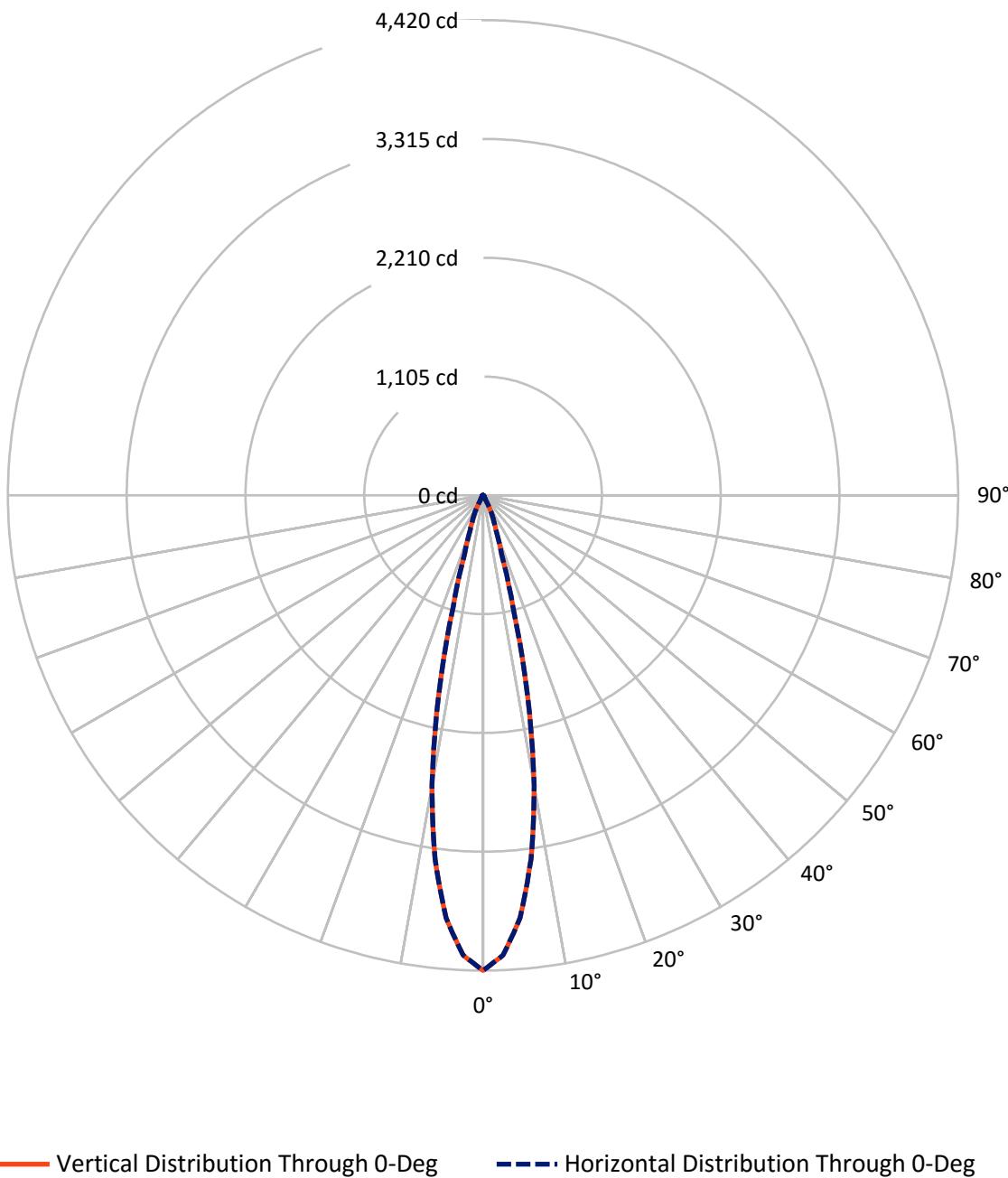
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Lumen Table



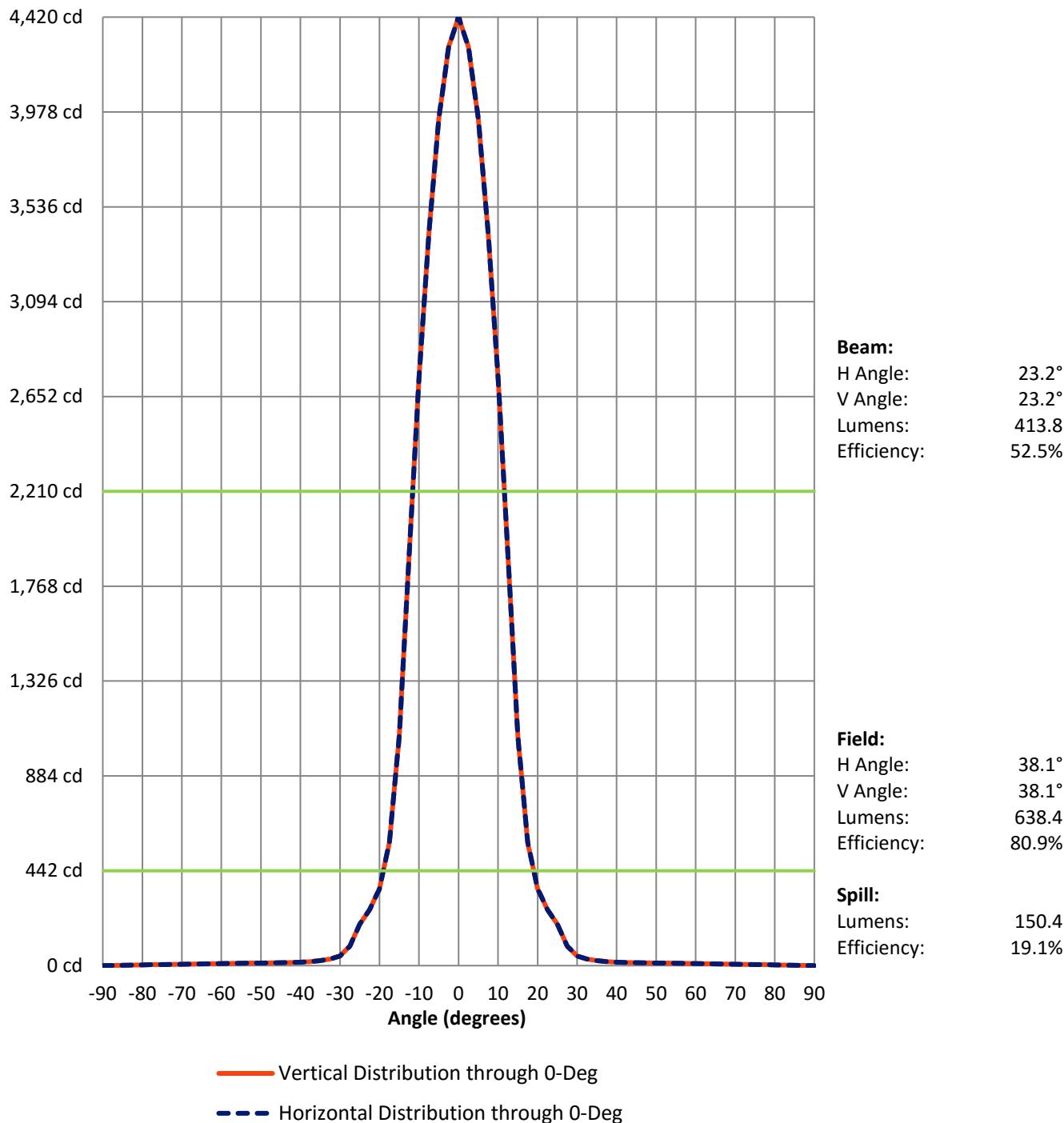
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CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-M-WT-L1-UNV

Luminous Intensity Polar Plot



REPORT NUMBER: P220314 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-M-WT-L1-UNV

Luminous Intensity Plot



REPORT NUMBER: P220314 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-M-WT-L1-UNV

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
	FIELD BEAM										
CANDELA DISTRIBUTION:											
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3
85°	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.7
82.5°	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
80°	0.0	0.1	0.3	0.4	0.6	0.7	0.8	1.0	1.1	1.2	1.3
77.5°	0.0	0.2	0.3	0.5	0.7	0.9	1.0	1.2	1.4	1.5	1.7
75°	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0
72.5°	0.0	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.3
70°	0.0	0.3	0.5	0.8	1.1	1.4	1.6	1.9	2.1	2.4	2.7
67.5°	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0
65°	0.0	0.3	0.7	1.0	1.3	1.7	2.0	2.3	2.7	3.0	3.4
62.5°	0.0	0.4	0.7	1.1	1.5	1.8	2.2	2.6	2.9	3.3	4.0
60°	0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.2	3.9	4.6
57.5°	0.0	0.4	0.9	1.3	1.7	2.1	2.6	3.0	3.6	4.4	4.8
55°	0.0	0.5	0.9	1.4	1.8	2.3	2.7	3.2	4.0	4.8	4.8
52.5°	0.0	0.5	1.0	1.5	1.9	2.4	2.9	3.6	4.5	4.8	4.8
50°	0.0	0.5	1.0	1.5	2.1	2.6	3.1	3.9	4.8	4.8	5.0
47.5°	0.0	0.5	1.1	1.6	2.2	2.7	3.2	4.3	4.8	4.8	5.3
45°	0.0	0.6	1.1	1.7	2.3	2.8	3.5	4.7	4.8	5.0	5.6
42.5°	0.0	0.6	1.2	1.8	2.4	2.9	3.8	4.8	4.8	5.2	5.8
40°	0.0	0.6	1.2	1.8	2.4	3.1	4.1	4.8	4.9	5.5	6.0
37.5°	0.0	0.6	1.3	1.9	2.5	3.2	4.4	4.8	5.0	5.7	6.3
35°	0.0	0.7	1.3	2.0	2.6	3.3	4.6	4.8	5.2	5.8	6.5
32.5°	0.0	0.7	1.3	2.0	2.7	3.5	4.8	4.8	5.4	6.0	6.7
30°	0.0	0.7	1.4	2.1	2.8	3.7	4.8	4.8	5.5	6.2	6.9
27.5°	0.0	0.7	1.4	2.1	2.8	3.9	4.8	5.0	5.7	6.3	7.0
25°	0.0	0.7	1.4	2.2	2.9	4.0	4.8	5.1	5.8	6.5	7.2
22.5°	0.0	0.7	1.5	2.2	3.0	4.2	4.8	5.2	5.9	6.6	7.4
20°	0.0	0.8	1.5	2.3	3.0	4.3	4.8	5.3	6.0	6.7	7.5
17.5°	0.0	0.8	1.5	2.3	3.1	4.4	4.8	5.3	6.1	6.8	7.6
15°	0.0	0.8	1.5	2.3	3.1	4.5	4.8	5.4	6.2	6.9	7.7
12.5°	0.0	0.8	1.6	2.3	3.1	4.6	4.8	5.5	6.2	7.0	7.8
10°	0.0	0.8	1.6	2.4	3.2	4.7	4.8	5.5	6.3	7.1	7.9
7.5°	0.0	0.8	1.6	2.4	3.2	4.7	4.8	5.6	6.3	7.1	7.9
5°	0.0	0.8	1.6	2.4	3.2	4.8	4.8	5.6	6.4	7.2	8.0
2.5°	0.0	0.8	1.6	2.4	3.2	4.8	4.8	5.6	6.4	7.2	8.0
0°	0.0	0.8	1.6	2.4	3.2	4.8	4.8	5.6	6.4	7.2	8.0
-2.5°	0.0	0.8	1.6	2.4	3.2	4.8	4.8	5.6	6.4	7.2	8.0
-5°	0.0	0.8	1.6	2.4	3.2	4.8	4.8	5.6	6.4	7.2	8.0
-7.5°	0.0	0.8	1.6	2.4	3.2	4.7	4.8	5.6	6.3	7.1	7.9
-10°	0.0	0.8	1.6	2.4	3.2	4.7	4.8	5.5	6.3	7.1	7.9
-12.5°	0.0	0.8	1.6	2.3	3.1	4.6	4.8	5.5	6.2	7.0	7.8
-15°	0.0	0.8	1.5	2.3	3.1	4.5	4.8	5.4	6.2	6.9	7.7
-17.5°	0.0	0.8	1.5	2.3	3.1	4.4	4.8	5.3	6.1	6.8	7.6
-20°	0.0	0.8	1.5	2.3	3.0	4.3	4.8	5.3	6.0	6.7	7.5

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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-M-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	0.7	1.5	2.2	3.0	4.2	4.8	5.2	5.9	6.6	7.4
-25°	0.0	0.7	1.4	2.2	2.9	4.0	4.8	5.1	5.8	6.5	7.2
-27.5°	0.0	0.7	1.4	2.1	2.8	3.9	4.8	5.0	5.7	6.3	7.0
-30°	0.0	0.7	1.4	2.1	2.8	3.7	4.8	4.8	5.5	6.2	6.9
-32.5°	0.0	0.7	1.3	2.0	2.7	3.5	4.8	4.8	5.4	6.0	6.7
-35°	0.0	0.7	1.3	2.0	2.6	3.3	4.6	4.8	5.2	5.8	6.5
-37.5°	0.0	0.6	1.3	1.9	2.5	3.2	4.4	4.8	5.0	5.7	6.3
-40°	0.0	0.6	1.2	1.8	2.4	3.1	4.1	4.8	4.9	5.5	6.0
-42.5°	0.0	0.6	1.2	1.8	2.4	2.9	3.8	4.8	4.8	5.2	5.8
-45°	0.0	0.6	1.1	1.7	2.3	2.8	3.5	4.7	4.8	5.0	5.6
-47.5°	0.0	0.5	1.1	1.6	2.2	2.7	3.2	4.3	4.8	4.8	5.3
-50°	0.0	0.5	1.0	1.5	2.1	2.6	3.1	3.9	4.8	4.8	5.0
-52.5°	0.0	0.5	1.0	1.5	1.9	2.4	2.9	3.6	4.5	4.8	4.8
-55°	0.0	0.5	0.9	1.4	1.8	2.3	2.7	3.2	4.0	4.8	4.8
-57.5°	0.0	0.4	0.9	1.3	1.7	2.1	2.6	3.0	3.6	4.4	4.8
-60°	0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.2	3.9	4.6
-62.5°	0.0	0.4	0.7	1.1	1.5	1.8	2.2	2.6	2.9	3.3	4.0
-65°	0.0	0.3	0.7	1.0	1.3	1.7	2.0	2.3	2.7	3.0	3.4
-67.5°	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0
-70°	0.0	0.3	0.5	0.8	1.1	1.4	1.6	1.9	2.1	2.4	2.7
-72.5°	0.0	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.3
-75°	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0
-77.5°	0.0	0.2	0.3	0.5	0.7	0.9	1.0	1.2	1.4	1.5	1.7
-80°	0.0	0.1	0.3	0.4	0.6	0.7	0.8	1.0	1.1	1.2	1.3
-82.5°	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
-85°	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.7
-87.5°	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3
-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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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-M-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6
85°	0.7	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.3
82.5°	1.1	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.8	1.9
80°	1.5	1.6	1.7	1.8	1.9	2.1	2.2	2.3	2.4	2.4	2.5
77.5°	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.8	2.9	3.1	3.2
75°	2.2	2.4	2.6	2.7	2.9	3.1	3.2	3.5	3.8	4.1	4.4
72.5°	2.6	2.8	3.0	3.2	3.6	3.9	4.3	4.7	4.8	4.8	4.8
70°	2.9	3.2	3.6	4.0	4.5	4.8	4.8	4.8	4.8	4.9	5.0
67.5°	3.3	3.9	4.4	4.8	4.8	4.8	4.8	5.0	5.2	5.5	5.7
65°	4.0	4.6	4.8	4.8	4.8	5.0	5.3	5.6	5.8	6.0	6.3
62.5°	4.7	4.8	4.8	4.9	5.2	5.5	5.8	6.1	6.4	6.6	6.9
60°	4.8	4.8	5.0	5.3	5.7	6.0	6.3	6.6	6.9	7.2	7.5
57.5°	4.8	5.0	5.4	5.7	6.1	6.5	6.8	7.1	7.5	7.8	8.1
55°	4.9	5.3	5.7	6.1	6.5	6.9	7.3	7.7	8.0	8.3	8.7
52.5°	5.2	5.7	6.1	6.5	7.0	7.4	7.8	8.2	8.5	8.9	9.2
50°	5.5	6.0	6.5	6.9	7.4	7.8	8.2	8.7	9.1	9.4	9.8
47.5°	5.8	6.3	6.8	7.3	7.8	8.2	8.7	9.1	9.6	10.0	10.4
45°	6.1	6.6	7.1	7.7	8.2	8.7	9.1	9.6	10.1	10.5	10.9
42.5°	6.4	6.9	7.5	8.0	8.5	9.1	9.6	10.1	10.5	11.0	11.5
40°	6.6	7.2	7.8	8.3	8.9	9.4	10.0	10.5	11.0	11.5	12.0
37.5°	6.9	7.5	8.1	8.7	9.2	9.8	10.4	10.9	11.5	12.0	12.0
35°	7.1	7.7	8.4	9.0	9.6	10.2	10.8	11.3	11.9	12.0	12.2
32.5°	7.3	8.0	8.6	9.3	9.9	10.5	11.1	11.7	12.0	12.1	12.6
30°	7.5	8.2	8.9	9.5	10.2	10.8	11.5	12.0	12.0	12.5	13.1
27.5°	7.7	8.4	9.1	9.8	10.5	11.1	11.8	12.0	12.3	12.9	13.5
25°	7.9	8.6	9.3	10.0	10.7	11.4	12.0	12.0	12.6	13.3	13.9
22.5°	8.1	8.8	9.5	10.2	11.0	11.7	12.0	12.3	12.9	13.6	14.3
20°	8.2	9.0	9.7	10.4	11.2	11.9	12.0	12.5	13.2	13.9	14.8
17.5°	8.4	9.1	9.9	10.6	11.4	12.0	12.0	12.8	13.5	14.2	15.5
15°	8.5	9.2	10.0	10.8	11.5	12.0	12.2	13.0	13.7	14.5	16.0
12.5°	8.6	9.4	10.1	10.9	11.7	12.0	12.4	13.2	13.9	15.0	16.8
10°	8.7	9.4	10.2	11.0	11.8	12.0	12.5	13.3	14.1	15.3	17.4
7.5°	8.7	9.5	10.3	11.1	11.9	12.0	12.7	13.4	14.2	15.6	17.9
5°	8.8	9.6	10.4	11.2	11.9	12.0	12.7	13.5	14.3	15.8	18.2
2.5°	8.8	9.6	10.4	11.2	12.0	12.0	12.8	13.6	14.4	16.0	18.4
0°	8.8	9.6	10.4	11.2	12.0	12.0	12.8	13.6	14.4	16.0	18.5
-2.5°	8.8	9.6	10.4	11.2	12.0	12.0	12.8	13.6	14.4	16.0	18.4
-5°	8.8	9.6	10.4	11.2	11.9	12.0	12.7	13.5	14.3	15.8	18.2
-7.5°	8.7	9.5	10.3	11.1	11.9	12.0	12.7	13.4	14.2	15.6	17.9
-10°	8.7	9.4	10.2	11.0	11.8	12.0	12.5	13.3	14.1	15.3	17.4
-12.5°	8.6	9.4	10.1	10.9	11.7	12.0	12.4	13.2	13.9	15.0	16.8
-15°	8.5	9.2	10.0	10.8	11.5	12.0	12.2	13.0	13.7	14.5	16.0
-17.5°	8.4	9.1	9.9	10.6	11.4	12.0	12.0	12.8	13.5	14.2	15.5
-20°	8.2	9.0	9.7	10.4	11.2	11.9	12.0	12.5	13.2	13.9	14.8

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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-M-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	8.1	8.8	9.5	10.2	11.0	11.7	12.0	12.3	12.9	13.6	14.3
-25°	7.9	8.6	9.3	10.0	10.7	11.4	12.0	12.0	12.6	13.3	13.9
-27.5°	7.7	8.4	9.1	9.8	10.5	11.1	11.8	12.0	12.3	12.9	13.5
-30°	7.5	8.2	8.9	9.5	10.2	10.8	11.5	12.0	12.0	12.5	13.1
-32.5°	7.3	8.0	8.6	9.3	9.9	10.5	11.1	11.7	12.0	12.1	12.6
-35°	7.1	7.7	8.4	9.0	9.6	10.2	10.8	11.3	11.9	12.0	12.2
-37.5°	6.9	7.5	8.1	8.7	9.2	9.8	10.4	10.9	11.5	12.0	12.0
-40°	6.6	7.2	7.8	8.3	8.9	9.4	10.0	10.5	11.0	11.5	12.0
-42.5°	6.4	6.9	7.5	8.0	8.5	9.1	9.6	10.1	10.5	11.0	11.5
-45°	6.1	6.6	7.1	7.7	8.2	8.7	9.1	9.6	10.1	10.5	10.9
-47.5°	5.8	6.3	6.8	7.3	7.8	8.2	8.7	9.1	9.6	10.0	10.4
-50°	5.5	6.0	6.5	6.9	7.4	7.8	8.2	8.7	9.1	9.4	9.8
-52.5°	5.2	5.7	6.1	6.5	7.0	7.4	7.8	8.2	8.5	8.9	9.2
-55°	4.9	5.3	5.7	6.1	6.5	6.9	7.3	7.7	8.0	8.3	8.7
-57.5°	4.8	5.0	5.4	5.7	6.1	6.5	6.8	7.1	7.5	7.8	8.1
-60°	4.8	4.8	5.0	5.3	5.7	6.0	6.3	6.6	6.9	7.2	7.5
-62.5°	4.7	4.8	4.8	4.9	5.2	5.5	5.8	6.1	6.4	6.6	6.9
-65°	4.0	4.6	4.8	4.8	4.8	5.0	5.3	5.6	5.8	6.0	6.3
-67.5°	3.3	3.9	4.4	4.8	4.8	4.8	4.8	5.0	5.2	5.5	5.7
-70°	2.9	3.2	3.6	4.0	4.5	4.8	4.8	4.8	4.8	4.9	5.0
-72.5°	2.6	2.8	3.0	3.2	3.6	3.9	4.3	4.7	4.8	4.8	4.8
-75°	2.2	2.4	2.6	2.7	2.9	3.1	3.2	3.5	3.8	4.1	4.4
-77.5°	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.8	2.9	3.1	3.2
-80°	1.5	1.6	1.7	1.8	1.9	2.1	2.2	2.3	2.4	2.4	2.5
-82.5°	1.1	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.8	1.9
-85°	0.7	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.3
-87.5°	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P220314 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-M-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8
85°	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.6	1.6
82.5°	2.0	2.0	2.1	2.1	2.2	2.2	2.3	2.3	2.3	2.3	2.4
80°	2.6	2.7	2.8	2.8	2.9	3.0	3.0	3.1	3.1	3.1	3.2
77.5°	3.3	3.5	3.7	3.9	4.0	4.2	4.3	4.4	4.5	4.6	4.7
75°	4.6	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
72.5°	4.8	4.8	4.8	5.0	5.1	5.2	5.3	5.3	5.4	5.5	5.5
70°	5.2	5.4	5.5	5.7	5.8	5.9	6.0	6.1	6.2	6.2	6.3
67.5°	5.8	6.0	6.2	6.3	6.5	6.6	6.7	6.8	6.9	7.0	7.1
65°	6.5	6.7	6.9	7.0	7.2	7.4	7.5	7.6	7.7	7.8	7.9
62.5°	7.1	7.3	7.5	7.7	7.9	8.1	8.2	8.4	8.5	8.6	8.7
60°	7.7	8.0	8.2	8.4	8.6	8.8	9.0	9.1	9.2	9.4	9.4
57.5°	8.4	8.6	8.9	9.1	9.3	9.5	9.7	9.9	10.0	10.1	10.2
55°	9.0	9.3	9.5	9.8	10.0	10.2	10.4	10.6	10.8	10.9	11.0
52.5°	9.6	9.9	10.2	10.5	10.7	11.0	11.2	11.4	11.5	11.7	11.8
50°	10.2	10.5	10.8	11.1	11.4	11.7	11.9	12.0	12.0	12.0	12.0
47.5°	10.8	11.1	11.5	11.8	12.0	12.0	12.0	12.0	12.2	12.4	12.5
45°	11.3	11.7	12.0	12.0	12.0	12.3	12.5	12.8	13.0	13.2	13.3
42.5°	11.9	12.0	12.0	12.3	12.6	12.9	13.2	13.5	13.7	13.9	14.1
40°	12.0	12.1	12.5	12.9	13.3	13.6	13.9	14.2	14.5	15.0	15.3
37.5°	12.2	12.6	13.1	13.5	13.9	14.3	14.8	15.5	16.0	16.8	17.4
35°	12.7	13.2	13.7	14.1	14.7	15.5	16.3	17.4	18.3	19.7	20.9
32.5°	13.2	13.7	14.2	15.0	15.9	17.2	18.4	20.5	22.4	24.5	26.6
30°	13.7	14.2	15.1	16.2	17.7	19.7	22.3	25.3	28.4	31.8	36.4
27.5°	14.1	15.0	16.2	17.9	20.4	23.4	27.5	32.1	38.9	44.9	53.4
25°	14.7	15.9	17.7	20.4	23.9	28.7	35.6	43.8	56.4	81.3	118.0
22.5°	15.5	17.2	19.7	23.4	28.7	36.8	47.3	68.9	117.2	170.7	205.8
20°	16.3	18.4	22.3	27.5	35.6	47.3	73.3	139.5	197.7	234.9	269.9
17.5°	17.4	20.5	25.3	32.1	43.8	68.9	139.5	204.8	250.0	304.2	355.7
15°	18.3	22.4	28.4	38.9	56.4	117.2	197.7	250.0	316.0	394.1	514.9
12.5°	19.7	24.5	31.8	44.9	81.3	170.7	234.9	304.2	394.1	560.8	832.1
10°	20.9	26.6	36.4	53.4	118.0	205.8	269.9	355.7	514.9	832.1	1350.3
7.5°	22.0	28.3	40.1	65.1	153.5	229.3	307.6	421.8	687.7	1213.1	1921.0
5°	22.7	29.5	42.7	76.0	175.1	246.6	335.6	494.4	873.4	1577.7	2373.6
2.5°	23.2	30.3	44.4	87.3	188.2	257.2	352.9	552.4	1021.4	1826.4	2645.4
0°	23.3	30.5	44.9	91.1	192.6	260.8	358.7	574.5	1072.0	1912.9	2739.3
-2.5°	23.2	30.3	44.4	87.3	188.2	257.2	352.9	552.4	1021.4	1826.4	2645.4
-5°	22.7	29.5	42.7	76.0	175.1	246.6	335.6	494.4	873.4	1577.7	2373.6
-7.5°	22.0	28.3	40.1	65.1	153.5	229.3	307.6	421.8	687.7	1213.1	1921.0
-10°	20.9	26.6	36.4	53.4	118.0	205.8	269.9	355.7	514.9	832.1	1350.3
-12.5°	19.7	24.5	31.8	44.9	81.3	170.7	234.9	304.2	394.1	560.8	832.1
-15°	18.3	22.4	28.4	38.9	56.4	117.2	197.7	250.0	316.0	394.1	514.9
-17.5°	17.4	20.5	25.3	32.1	43.8	68.9	139.5	204.8	250.0	304.2	355.7
-20°	16.3	18.4	22.3	27.5	35.6	47.3	73.3	139.5	197.7	234.9	269.9

REPORT NUMBER: P220314 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-M-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	15.5	17.2	19.7	23.4	28.7	36.8	47.3	68.9	117.2	170.7	205.8
-25°	14.7	15.9	17.7	20.4	23.9	28.7	35.6	43.8	56.4	81.3	118.0
-27.5°	14.1	15.0	16.2	17.9	20.4	23.4	27.5	32.1	38.9	44.9	53.4
-30°	13.7	14.2	15.1	16.2	17.7	19.7	22.3	25.3	28.4	31.8	36.4
-32.5°	13.2	13.7	14.2	15.0	15.9	17.2	18.4	20.5	22.4	24.5	26.6
-35°	12.7	13.2	13.7	14.1	14.7	15.5	16.3	17.4	18.3	19.7	20.9
-37.5°	12.2	12.6	13.1	13.5	13.9	14.3	14.8	15.5	16.0	16.8	17.4
-40°	12.0	12.1	12.5	12.9	13.3	13.6	13.9	14.2	14.5	15.0	15.3
-42.5°	11.9	12.0	12.0	12.3	12.6	12.9	13.2	13.5	13.7	13.9	14.1
-45°	11.3	11.7	12.0	12.0	12.0	12.3	12.5	12.8	13.0	13.2	13.3
-47.5°	10.8	11.1	11.5	11.8	12.0	12.0	12.0	12.0	12.2	12.4	12.5
-50°	10.2	10.5	10.8	11.1	11.4	11.7	11.9	12.0	12.0	12.0	12.0
-52.5°	9.6	9.9	10.2	10.5	10.7	11.0	11.2	11.4	11.5	11.7	11.8
-55°	9.0	9.3	9.5	9.8	10.0	10.2	10.4	10.6	10.8	10.9	11.0
-57.5°	8.4	8.6	8.9	9.1	9.3	9.5	9.7	9.9	10.0	10.1	10.2
-60°	7.7	8.0	8.2	8.4	8.6	8.8	9.0	9.1	9.2	9.4	9.4
-62.5°	7.1	7.3	7.5	7.7	7.9	8.1	8.2	8.4	8.5	8.6	8.7
-65°	6.5	6.7	6.9	7.0	7.2	7.4	7.5	7.6	7.7	7.8	7.9
-67.5°	5.8	6.0	6.2	6.3	6.5	6.6	6.7	6.8	6.9	7.0	7.1
-70°	5.2	5.4	5.5	5.7	5.8	5.9	6.0	6.1	6.2	6.2	6.3
-72.5°	4.8	4.8	4.8	5.0	5.1	5.2	5.3	5.3	5.4	5.5	5.5
-75°	4.6	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
-77.5°	3.3	3.5	3.7	3.9	4.0	4.2	4.3	4.4	4.5	4.6	4.7
-80°	2.6	2.7	2.8	2.8	2.9	3.0	3.0	3.1	3.1	3.1	3.2
-82.5°	2.0	2.0	2.1	2.1	2.2	2.2	2.3	2.3	2.3	2.3	2.4
-85°	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.6	1.6
-87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P220314 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-M-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3
80°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.1
77.5°	4.7	4.8	4.8	4.8	4.8	4.8	4.7	4.7	4.6	4.5	4.4
75°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
72.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.4	5.3
70°	6.3	6.4	6.4	6.4	6.4	6.4	6.3	6.3	6.2	6.2	6.1
67.5°	7.1	7.2	7.2	7.2	7.2	7.2	7.1	7.1	6.9	6.8	
65°	7.9	8.0	8.0	8.0	8.0	8.0	7.9	7.9	7.8	7.7	7.6
62.5°	8.7	8.8	8.8	8.8	8.8	8.8	8.7	8.7	8.6	8.5	8.4
60°	9.5	9.6	9.6	9.6	9.6	9.6	9.5	9.4	9.4	9.2	9.1
57.5°	10.3	10.4	10.4	10.4	10.4	10.4	10.3	10.2	10.1	10.0	9.9
55°	11.1	11.2	11.2	11.2	11.2	11.2	11.1	11.0	10.9	10.8	10.6
52.5°	11.9	11.9	12.0	12.0	12.0	11.9	11.9	11.8	11.7	11.5	11.4
50°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
47.5°	12.7	12.7	12.8	12.8	12.8	12.7	12.7	12.5	12.4	12.2	12.0
45°	13.4	13.5	13.6	13.6	13.6	13.5	13.4	13.3	13.2	13.0	12.8
42.5°	14.2	14.3	14.4	14.4	14.4	14.3	14.2	14.1	13.9	13.7	13.5
40°	15.6	15.8	16.0	16.0	16.0	15.8	15.6	15.3	15.0	14.5	14.2
37.5°	17.9	18.2	18.4	18.5	18.4	18.2	17.9	17.4	16.8	16.0	15.5
35°	22.0	22.7	23.2	23.3	23.2	22.7	22.0	20.9	19.7	18.3	17.4
32.5°	28.3	29.5	30.3	30.5	30.3	29.5	28.3	26.6	24.5	22.4	20.5
30°	40.1	42.7	44.4	44.9	44.4	42.7	40.1	36.4	31.8	28.4	25.3
27.5°	65.1	76.0	87.3	91.1	87.3	76.0	65.1	53.4	44.9	38.9	32.1
25°	153.5	175.1	188.2	192.6	188.2	175.1	153.5	118.0	81.3	56.4	43.8
22.5°	229.3	246.6	257.2	260.8	257.2	246.6	229.3	205.8	170.7	117.2	68.9
20°	307.6	335.6	352.9	358.7	352.9	335.6	307.6	269.9	234.9	197.7	139.5
17.5°	421.8	494.4	552.4	574.5	552.4	494.4	421.8	355.7	304.2	250.0	204.8
15°	687.7	873.4	1021.4	1072.0	1021.4	873.4	687.7	514.9	394.1	316.0	250.0
12.5°	1213.1	1577.7	1826.4	1912.9	1826.4	1577.7	1213.1	832.1	560.8	394.1	304.2
10°	1921.0	2373.6	2645.4	2739.3	2645.4	2373.6	1921.0	1350.3	832.1	514.9	355.7
7.5°	2557.1	3021.6	3314.1	3412.5	3314.1	3021.6	2557.1	1921.0	1213.1	687.7	421.8
5°	3021.6	3518.2	3831.9	3945.3	3831.9	3518.2	3021.6	2373.6	1577.7	873.4	494.4
2.5°	3314.1	3831.9	4167.5	4280.7	4167.5	3831.9	3314.1	2645.4	1826.4	1021.4	552.4
0°	3412.5	3945.3	4280.7	4420.3	4280.7	3945.3	3412.5	2739.3	1912.9	1072.0	574.5
-2.5°	3314.1	3831.9	4167.5	4280.7	4167.5	3831.9	3314.1	2645.4	1826.4	1021.4	552.4
-5°	3021.6	3518.2	3831.9	3945.3	3831.9	3518.2	3021.6	2373.6	1577.7	873.4	494.4
-7.5°	2557.1	3021.6	3314.1	3412.5	3314.1	3021.6	2557.1	1921.0	1213.1	687.7	421.8
-10°	1921.0	2373.6	2645.4	2739.3	2645.4	2373.6	1921.0	1350.3	832.1	514.9	355.7
-12.5°	1213.1	1577.7	1826.4	1912.9	1826.4	1577.7	1213.1	832.1	560.8	394.1	304.2
-15°	687.7	873.4	1021.4	1072.0	1021.4	873.4	687.7	514.9	394.1	316.0	250.0
-17.5°	421.8	494.4	552.4	574.5	552.4	494.4	421.8	355.7	304.2	250.0	204.8
-20°	307.6	335.6	352.9	358.7	352.9	335.6	307.6	269.9	234.9	197.7	139.5

REPORT NUMBER: P220314 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-M-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	229.3	246.6	257.2	260.8	257.2	246.6	229.3	205.8	170.7	117.2	68.9
-25°	153.5	175.1	188.2	192.6	188.2	175.1	153.5	118.0	81.3	56.4	43.8
-27.5°	65.1	76.0	87.3	91.1	87.3	76.0	65.1	53.4	44.9	38.9	32.1
-30°	40.1	42.7	44.4	44.9	44.4	42.7	40.1	36.4	31.8	28.4	25.3
-32.5°	28.3	29.5	30.3	30.5	30.3	29.5	28.3	26.6	24.5	22.4	20.5
-35°	22.0	22.7	23.2	23.3	23.2	22.7	22.0	20.9	19.7	18.3	17.4
-37.5°	17.9	18.2	18.4	18.5	18.4	18.2	17.9	17.4	16.8	16.0	15.5
-40°	15.6	15.8	16.0	16.0	16.0	15.8	15.6	15.3	15.0	14.5	14.2
-42.5°	14.2	14.3	14.4	14.4	14.4	14.3	14.2	14.1	13.9	13.7	13.5
-45°	13.4	13.5	13.6	13.6	13.6	13.5	13.4	13.3	13.2	13.0	12.8
-47.5°	12.7	12.7	12.8	12.8	12.8	12.7	12.7	12.5	12.4	12.2	12.0
-50°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
-52.5°	11.9	11.9	12.0	12.0	12.0	11.9	11.9	11.8	11.7	11.5	11.4
-55°	11.1	11.2	11.2	11.2	11.2	11.2	11.1	11.0	10.9	10.8	10.6
-57.5°	10.3	10.4	10.4	10.4	10.4	10.4	10.3	10.2	10.1	10.0	9.9
-60°	9.5	9.6	9.6	9.6	9.6	9.6	9.5	9.4	9.4	9.2	9.1
-62.5°	8.7	8.8	8.8	8.8	8.8	8.8	8.7	8.7	8.6	8.5	8.4
-65°	7.9	8.0	8.0	8.0	8.0	8.0	7.9	7.9	7.8	7.7	7.6
-67.5°	7.1	7.2	7.2	7.2	7.2	7.2	7.1	7.1	7.0	6.9	6.8
-70°	6.3	6.4	6.4	6.4	6.4	6.4	6.3	6.3	6.2	6.2	6.1
-72.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.4	5.3
-75°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
-77.5°	4.7	4.8	4.8	4.8	4.8	4.8	4.7	4.7	4.6	4.5	4.4
-80°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.1
-82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3
-85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5
-87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P220314 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-M-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6
85°	1.5	1.5	1.4	1.4	1.4	1.3	1.3	1.3	1.2	1.2	1.1
82.5°	2.3	2.2	2.2	2.1	2.1	2.0	2.0	1.9	1.8	1.8	1.7
80°	3.0	3.0	2.9	2.8	2.8	2.7	2.6	2.5	2.4	2.4	2.3
77.5°	4.3	4.2	4.0	3.9	3.7	3.5	3.3	3.2	3.1	2.9	2.8
75°	4.8	4.8	4.8	4.8	4.8	4.8	4.6	4.4	4.1	3.8	3.5
72.5°	5.3	5.2	5.1	5.0	4.8	4.8	4.8	4.8	4.8	4.8	4.7
70°	6.0	5.9	5.8	5.7	5.5	5.4	5.2	5.0	4.9	4.8	4.8
67.5°	6.7	6.6	6.5	6.3	6.2	6.0	5.8	5.7	5.5	5.2	5.0
65°	7.5	7.4	7.2	7.0	6.9	6.7	6.5	6.3	6.0	5.8	5.6
62.5°	8.2	8.1	7.9	7.7	7.5	7.3	7.1	6.9	6.6	6.4	6.1
60°	9.0	8.8	8.6	8.4	8.2	8.0	7.7	7.5	7.2	6.9	6.6
57.5°	9.7	9.5	9.3	9.1	8.9	8.6	8.4	8.1	7.8	7.5	7.1
55°	10.4	10.2	10.0	9.8	9.5	9.3	9.0	8.7	8.3	8.0	7.7
52.5°	11.2	11.0	10.7	10.5	10.2	9.9	9.6	9.2	8.9	8.5	8.2
50°	11.9	11.7	11.4	11.1	10.8	10.5	10.2	9.8	9.4	9.1	8.7
47.5°	12.0	12.0	12.0	11.8	11.5	11.1	10.8	10.4	10.0	9.6	9.1
45°	12.5	12.3	12.0	12.0	12.0	11.7	11.3	10.9	10.5	10.1	9.6
42.5°	13.2	12.9	12.6	12.3	12.0	12.0	11.9	11.5	11.0	10.5	10.1
40°	13.9	13.6	13.3	12.9	12.5	12.1	12.0	12.0	11.5	11.0	10.5
37.5°	14.8	14.3	13.9	13.5	13.1	12.6	12.2	12.0	12.0	11.5	10.9
35°	16.3	15.5	14.7	14.1	13.7	13.2	12.7	12.2	12.0	11.9	11.3
32.5°	18.4	17.2	15.9	15.0	14.2	13.7	13.2	12.6	12.1	12.0	11.7
30°	22.3	19.7	17.7	16.2	15.1	14.2	13.7	13.1	12.5	12.0	12.0
27.5°	27.5	23.4	20.4	17.9	16.2	15.0	14.1	13.5	12.9	12.3	12.0
25°	35.6	28.7	23.9	20.4	17.7	15.9	14.7	13.9	13.3	12.6	12.0
22.5°	47.3	36.8	28.7	23.4	19.7	17.2	15.5	14.3	13.6	12.9	12.3
20°	73.3	47.3	35.6	27.5	22.3	18.4	16.3	14.8	13.9	13.2	12.5
17.5°	139.5	68.9	43.8	32.1	25.3	20.5	17.4	15.5	14.2	13.5	12.8
15°	197.7	117.2	56.4	38.9	28.4	22.4	18.3	16.0	14.5	13.7	13.0
12.5°	234.9	170.7	81.3	44.9	31.8	24.5	19.7	16.8	15.0	13.9	13.2
10°	269.9	205.8	118.0	53.4	36.4	26.6	20.9	17.4	15.3	14.1	13.3
7.5°	307.6	229.3	153.5	65.1	40.1	28.3	22.0	17.9	15.6	14.2	13.4
5°	335.6	246.6	175.1	76.0	42.7	29.5	22.7	18.2	15.8	14.3	13.5
2.5°	352.9	257.2	188.2	87.3	44.4	30.3	23.2	18.4	16.0	14.4	13.6
0°	358.7	260.8	192.6	91.1	44.9	30.5	23.3	18.5	16.0	14.4	13.6
-2.5°	352.9	257.2	188.2	87.3	44.4	30.3	23.2	18.4	16.0	14.4	13.6
-5°	335.6	246.6	175.1	76.0	42.7	29.5	22.7	18.2	15.8	14.3	13.5
-7.5°	307.6	229.3	153.5	65.1	40.1	28.3	22.0	17.9	15.6	14.2	13.4
-10°	269.9	205.8	118.0	53.4	36.4	26.6	20.9	17.4	15.3	14.1	13.3
-12.5°	234.9	170.7	81.3	44.9	31.8	24.5	19.7	16.8	15.0	13.9	13.2
-15°	197.7	117.2	56.4	38.9	28.4	22.4	18.3	16.0	14.5	13.7	13.0
-17.5°	139.5	68.9	43.8	32.1	25.3	20.5	17.4	15.5	14.2	13.5	12.8
-20°	73.3	47.3	35.6	27.5	22.3	18.4	16.3	14.8	13.9	13.2	12.5

REPORT NUMBER: P220314 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	47.3	36.8	28.7	23.4	19.7	17.2	15.5	14.3	13.6	12.9	12.3
-25°	35.6	28.7	23.9	20.4	17.7	15.9	14.7	13.9	13.3	12.6	12.0
-27.5°	27.5	23.4	20.4	17.9	16.2	15.0	14.1	13.5	12.9	12.3	12.0
-30°	22.3	19.7	17.7	16.2	15.1	14.2	13.7	13.1	12.5	12.0	12.0
-32.5°	18.4	17.2	15.9	15.0	14.2	13.7	13.2	12.6	12.1	12.0	11.7
-35°	16.3	15.5	14.7	14.1	13.7	13.2	12.7	12.2	12.0	11.9	11.3
-37.5°	14.8	14.3	13.9	13.5	13.1	12.6	12.2	12.0	12.0	11.5	10.9
-40°	13.9	13.6	13.3	12.9	12.5	12.1	12.0	12.0	11.5	11.0	10.5
-42.5°	13.2	12.9	12.6	12.3	12.0	12.0	11.9	11.5	11.0	10.5	10.1
-45°	12.5	12.3	12.0	12.0	12.0	11.7	11.3	10.9	10.5	10.1	9.6
-47.5°	12.0	12.0	12.0	11.8	11.5	11.1	10.8	10.4	10.0	9.6	9.1
-50°	11.9	11.7	11.4	11.1	10.8	10.5	10.2	9.8	9.4	9.1	8.7
-52.5°	11.2	11.0	10.7	10.5	10.2	9.9	9.6	9.2	8.9	8.5	8.2
-55°	10.4	10.2	10.0	9.8	9.5	9.3	9.0	8.7	8.3	8.0	7.7
-57.5°	9.7	9.5	9.3	9.1	8.9	8.6	8.4	8.1	7.8	7.5	7.1
-60°	9.0	8.8	8.6	8.4	8.2	8.0	7.7	7.5	7.2	6.9	6.6
-62.5°	8.2	8.1	7.9	7.7	7.5	7.3	7.1	6.9	6.6	6.4	6.1
-65°	7.5	7.4	7.2	7.0	6.9	6.7	6.5	6.3	6.0	5.8	5.6
-67.5°	6.7	6.6	6.5	6.3	6.2	6.0	5.8	5.7	5.5	5.2	5.0
-70°	6.0	5.9	5.8	5.7	5.5	5.4	5.2	5.0	4.9	4.8	4.8
-72.5°	5.3	5.2	5.1	5.0	4.8	4.8	4.8	4.8	4.8	4.8	4.7
-75°	4.8	4.8	4.8	4.8	4.8	4.8	4.6	4.4	4.1	3.8	3.5
-77.5°	4.3	4.2	4.0	3.9	3.7	3.5	3.3	3.2	3.1	2.9	2.8
-80°	3.0	3.0	2.9	2.8	2.8	2.7	2.6	2.5	2.4	2.4	2.3
-82.5°	2.3	2.2	2.2	2.1	2.1	2.0	2.0	1.9	1.8	1.8	1.7
-85°	1.5	1.5	1.4	1.4	1.4	1.3	1.3	1.3	1.2	1.2	1.1
-87.5°	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P220314 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-M-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.2
85°	1.1	1.0	1.0	0.9	0.9	0.8	0.7	0.7	0.6	0.5	0.5
82.5°	1.6	1.5	1.5	1.4	1.3	1.2	1.1	1.0	0.9	0.8	0.7
80°	2.2	2.1	1.9	1.8	1.7	1.6	1.5	1.3	1.2	1.1	1.0
77.5°	2.7	2.6	2.4	2.3	2.1	2.0	1.8	1.7	1.5	1.4	1.2
75°	3.2	3.1	2.9	2.7	2.6	2.4	2.2	2.0	1.8	1.6	1.4
72.5°	4.3	3.9	3.6	3.2	3.0	2.8	2.6	2.3	2.1	1.9	1.7
70°	4.8	4.8	4.5	4.0	3.6	3.2	2.9	2.7	2.4	2.1	1.9
67.5°	4.8	4.8	4.8	4.8	4.4	3.9	3.3	3.0	2.7	2.4	2.1
65°	5.3	5.0	4.8	4.8	4.8	4.6	4.0	3.4	3.0	2.7	2.3
62.5°	5.8	5.5	5.2	4.9	4.8	4.8	4.7	4.0	3.3	2.9	2.6
60°	6.3	6.0	5.7	5.3	5.0	4.8	4.8	4.6	3.9	3.2	2.8
57.5°	6.8	6.5	6.1	5.7	5.4	5.0	4.8	4.8	4.4	3.6	3.0
55°	7.3	6.9	6.5	6.1	5.7	5.3	4.9	4.8	4.8	4.0	3.2
52.5°	7.8	7.4	7.0	6.5	6.1	5.7	5.2	4.8	4.8	4.5	3.6
50°	8.2	7.8	7.4	6.9	6.5	6.0	5.5	5.0	4.8	4.8	3.9
47.5°	8.7	8.2	7.8	7.3	6.8	6.3	5.8	5.3	4.8	4.8	4.3
45°	9.1	8.7	8.2	7.7	7.1	6.6	6.1	5.6	5.0	4.8	4.7
42.5°	9.6	9.1	8.5	8.0	7.5	6.9	6.4	5.8	5.2	4.8	4.8
40°	10.0	9.4	8.9	8.3	7.8	7.2	6.6	6.0	5.5	4.9	4.8
37.5°	10.4	9.8	9.2	8.7	8.1	7.5	6.9	6.3	5.7	5.0	4.8
35°	10.8	10.2	9.6	9.0	8.4	7.7	7.1	6.5	5.8	5.2	4.8
32.5°	11.1	10.5	9.9	9.3	8.6	8.0	7.3	6.7	6.0	5.4	4.8
30°	11.5	10.8	10.2	9.5	8.9	8.2	7.5	6.9	6.2	5.5	4.8
27.5°	11.8	11.1	10.5	9.8	9.1	8.4	7.7	7.0	6.3	5.7	5.0
25°	12.0	11.4	10.7	10.0	9.3	8.6	7.9	7.2	6.5	5.8	5.1
22.5°	12.0	11.7	11.0	10.2	9.5	8.8	8.1	7.4	6.6	5.9	5.2
20°	12.0	11.9	11.2	10.4	9.7	9.0	8.2	7.5	6.7	6.0	5.3
17.5°	12.0	12.0	11.4	10.6	9.9	9.1	8.4	7.6	6.8	6.1	5.3
15°	12.2	12.0	11.5	10.8	10.0	9.2	8.5	7.7	6.9	6.2	5.4
12.5°	12.4	12.0	11.7	10.9	10.1	9.4	8.6	7.8	7.0	6.2	5.5
10°	12.5	12.0	11.8	11.0	10.2	9.4	8.7	7.9	7.1	6.3	5.5
7.5°	12.7	12.0	11.9	11.1	10.3	9.5	8.7	7.9	7.1	6.3	5.6
5°	12.7	12.0	11.9	11.2	10.4	9.6	8.8	8.0	7.2	6.4	5.6
2.5°	12.8	12.0	12.0	11.2	10.4	9.6	8.8	8.0	7.2	6.4	5.6
0°	12.8	12.0	12.0	12.0	11.2	10.4	9.6	8.8	8.0	7.2	6.4
-2.5°	12.8	12.0	12.0	11.2	10.4	9.6	8.8	8.0	7.2	6.4	5.6
-5°	12.7	12.0	11.9	11.2	10.4	9.6	8.8	8.0	7.2	6.4	5.6
-7.5°	12.7	12.0	11.9	11.1	10.3	9.5	8.7	7.9	7.1	6.3	5.6
-10°	12.5	12.0	11.8	11.0	10.2	9.4	8.7	7.9	7.1	6.3	5.5
-12.5°	12.4	12.0	11.7	10.9	10.1	9.4	8.6	7.8	7.0	6.2	5.5
-15°	12.2	12.0	11.5	10.8	10.0	9.2	8.5	7.7	6.9	6.2	5.4
-17.5°	12.0	12.0	11.4	10.6	9.9	9.1	8.4	7.6	6.8	6.1	5.3
-20°	12.0	11.9	11.2	10.4	9.7	9.0	8.2	7.5	6.7	6.0	5.3

REPORT NUMBER: P220314 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3090-M-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	12.0	11.7	11.0	10.2	9.5	8.8	8.1	7.4	6.6	5.9	5.2
-25°	12.0	11.4	10.7	10.0	9.3	8.6	7.9	7.2	6.5	5.8	5.1
-27.5°	11.8	11.1	10.5	9.8	9.1	8.4	7.7	7.0	6.3	5.7	5.0
-30°	11.5	10.8	10.2	9.5	8.9	8.2	7.5	6.9	6.2	5.5	4.8
-32.5°	11.1	10.5	9.9	9.3	8.6	8.0	7.3	6.7	6.0	5.4	4.8
-35°	10.8	10.2	9.6	9.0	8.4	7.7	7.1	6.5	5.8	5.2	4.8
-37.5°	10.4	9.8	9.2	8.7	8.1	7.5	6.9	6.3	5.7	5.0	4.8
-40°	10.0	9.4	8.9	8.3	7.8	7.2	6.6	6.0	5.5	4.9	4.8
-42.5°	9.6	9.1	8.5	8.0	7.5	6.9	6.4	5.8	5.2	4.8	4.8
-45°	9.1	8.7	8.2	7.7	7.1	6.6	6.1	5.6	5.0	4.8	4.7
-47.5°	8.7	8.2	7.8	7.3	6.8	6.3	5.8	5.3	4.8	4.8	4.3
-50°	8.2	7.8	7.4	6.9	6.5	6.0	5.5	5.0	4.8	4.8	3.9
-52.5°	7.8	7.4	7.0	6.5	6.1	5.7	5.2	4.8	4.8	4.5	3.6
-55°	7.3	6.9	6.5	6.1	5.7	5.3	4.9	4.8	4.8	4.0	3.2
-57.5°	6.8	6.5	6.1	5.7	5.4	5.0	4.8	4.8	4.4	3.6	3.0
-60°	6.3	6.0	5.7	5.3	5.0	4.8	4.8	4.6	3.9	3.2	2.8
-62.5°	5.8	5.5	5.2	4.9	4.8	4.8	4.7	4.0	3.3	2.9	2.6
-65°	5.3	5.0	4.8	4.8	4.8	4.6	4.0	3.4	3.0	2.7	2.3
-67.5°	4.8	4.8	4.8	4.8	4.4	3.9	3.3	3.0	2.7	2.4	2.1
-70°	4.8	4.8	4.5	4.0	3.6	3.2	2.9	2.7	2.4	2.1	1.9
-72.5°	4.3	3.9	3.6	3.2	3.0	2.8	2.6	2.3	2.1	1.9	1.7
-75°	3.2	3.1	2.9	2.7	2.6	2.4	2.2	2.0	1.8	1.6	1.4
-77.5°	2.7	2.6	2.4	2.3	2.1	2.0	1.8	1.7	1.5	1.4	1.2
-80°	2.2	2.1	1.9	1.8	1.7	1.6	1.5	1.3	1.2	1.1	1.0
-82.5°	1.6	1.5	1.5	1.4	1.3	1.2	1.1	1.0	0.9	0.8	0.7
-85°	1.1	1.0	1.0	0.9	0.9	0.8	0.7	0.7	0.6	0.5	0.5
-87.5°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.2
-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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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.2	0.2	0.1	0.1	0.1	0.0	0.0
85°	0.4	0.3	0.3	0.2	0.1	0.1	0.0
82.5°	0.6	0.5	0.4	0.3	0.2	0.1	0.0
80°	0.8	0.7	0.6	0.4	0.3	0.1	0.0
77.5°	1.0	0.9	0.7	0.5	0.3	0.2	0.0
75°	1.2	1.0	0.8	0.6	0.4	0.2	0.0
72.5°	1.4	1.2	1.0	0.7	0.5	0.2	0.0
70°	1.6	1.4	1.1	0.8	0.5	0.3	0.0
67.5°	1.8	1.5	1.2	0.9	0.6	0.3	0.0
65°	2.0	1.7	1.3	1.0	0.7	0.3	0.0
62.5°	2.2	1.8	1.5	1.1	0.7	0.4	0.0
60°	2.4	2.0	1.6	1.2	0.8	0.4	0.0
57.5°	2.6	2.1	1.7	1.3	0.9	0.4	0.0
55°	2.7	2.3	1.8	1.4	0.9	0.5	0.0
52.5°	2.9	2.4	1.9	1.5	1.0	0.5	0.0
50°	3.1	2.6	2.1	1.5	1.0	0.5	0.0
47.5°	3.2	2.7	2.2	1.6	1.1	0.5	0.0
45°	3.5	2.8	2.3	1.7	1.1	0.6	0.0
42.5°	3.8	2.9	2.4	1.8	1.2	0.6	0.0
40°	4.1	3.1	2.4	1.8	1.2	0.6	0.0
37.5°	4.4	3.2	2.5	1.9	1.3	0.6	0.0
35°	4.6	3.3	2.6	2.0	1.3	0.7	0.0
32.5°	4.8	3.5	2.7	2.0	1.3	0.7	0.0
30°	4.8	3.7	2.8	2.1	1.4	0.7	0.0
27.5°	4.8	3.9	2.8	2.1	1.4	0.7	0.0
25°	4.8	4.0	2.9	2.2	1.4	0.7	0.0
22.5°	4.8	4.2	3.0	2.2	1.5	0.7	0.0
20°	4.8	4.3	3.0	2.3	1.5	0.8	0.0
17.5°	4.8	4.4	3.1	2.3	1.5	0.8	0.0
15°	4.8	4.5	3.1	2.3	1.5	0.8	0.0
12.5°	4.8	4.6	3.1	2.3	1.6	0.8	0.0
10°	4.8	4.7	3.2	2.4	1.6	0.8	0.0
7.5°	4.8	4.7	3.2	2.4	1.6	0.8	0.0
5°	4.8	4.8	3.2	2.4	1.6	0.8	0.0
2.5°	4.8	4.8	3.2	2.4	1.6	0.8	0.0
0°	4.8	4.8	3.2	2.4	1.6	0.8	0.0
-2.5°	4.8	4.8	3.2	2.4	1.6	0.8	0.0
-5°	4.8	4.8	3.2	2.4	1.6	0.8	0.0
-7.5°	4.8	4.7	3.2	2.4	1.6	0.8	0.0
-10°	4.8	4.7	3.2	2.4	1.6	0.8	0.0
-12.5°	4.8	4.6	3.1	2.3	1.6	0.8	0.0
-15°	4.8	4.5	3.1	2.3	1.5	0.8	0.0
-17.5°	4.8	4.4	3.1	2.3	1.5	0.8	0.0
-20°	4.8	4.3	3.0	2.3	1.5	0.8	0.0

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	4.8	4.2	3.0	2.2	1.5	0.7	0.0
-25°	4.8	4.0	2.9	2.2	1.4	0.7	0.0
-27.5°	4.8	3.9	2.8	2.1	1.4	0.7	0.0
-30°	4.8	3.7	2.8	2.1	1.4	0.7	0.0
-32.5°	4.8	3.5	2.7	2.0	1.3	0.7	0.0
-35°	4.6	3.3	2.6	2.0	1.3	0.7	0.0
-37.5°	4.4	3.2	2.5	1.9	1.3	0.6	0.0
-40°	4.1	3.1	2.4	1.8	1.2	0.6	0.0
-42.5°	3.8	2.9	2.4	1.8	1.2	0.6	0.0
-45°	3.5	2.8	2.3	1.7	1.1	0.6	0.0
-47.5°	3.2	2.7	2.2	1.6	1.1	0.5	0.0
-50°	3.1	2.6	2.1	1.5	1.0	0.5	0.0
-52.5°	2.9	2.4	1.9	1.5	1.0	0.5	0.0
-55°	2.7	2.3	1.8	1.4	0.9	0.5	0.0
-57.5°	2.6	2.1	1.7	1.3	0.9	0.4	0.0
-60°	2.4	2.0	1.6	1.2	0.8	0.4	0.0
-62.5°	2.2	1.8	1.5	1.1	0.7	0.4	0.0
-65°	2.0	1.7	1.3	1.0	0.7	0.3	0.0
-67.5°	1.8	1.5	1.2	0.9	0.6	0.3	0.0
-70°	1.6	1.4	1.1	0.8	0.5	0.3	0.0
-72.5°	1.4	1.2	1.0	0.7	0.5	0.2	0.0
-75°	1.2	1.0	0.8	0.6	0.4	0.2	0.0
-77.5°	1.0	0.9	0.7	0.5	0.3	0.2	0.0
-80°	0.8	0.7	0.6	0.4	0.3	0.1	0.0
-82.5°	0.6	0.5	0.4	0.3	0.2	0.1	0.0
-85°	0.4	0.3	0.3	0.2	0.1	0.1	0.0
-87.5°	0.2	0.2	0.1	0.1	0.1	0.0	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)