

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: P221131 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-[RW, RI]-LEDCW-W-WT-LC1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221131 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29545)
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]-LEDCW-W-WT-LC1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, RECESSED LENS,
WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) WARM DIMMING MODULE, SET TO 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

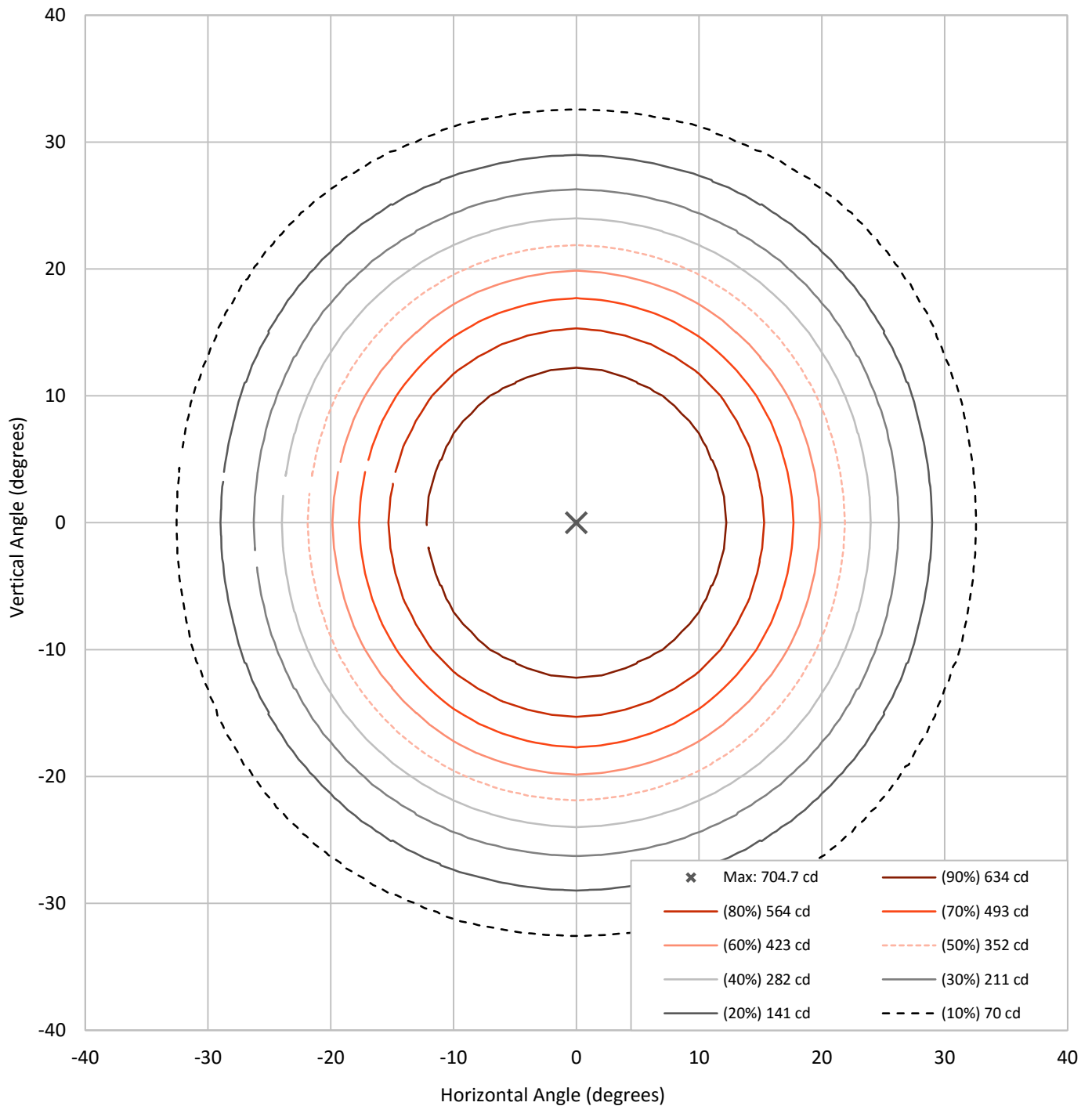
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	439.7 lumens	Max Intensity:	704.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	31.0 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	43.8°H x 43.8°V	Field Angle (10%):	64.9°H x 64.9°V
Beam Lumens:	252.8 lumens	Field Lumens:	347.9 lumens
Beam Efficiency:	57.5%	Field Efficiency:	79.1%
Input Watts (W):	14.2		
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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Iso-Candela Plot





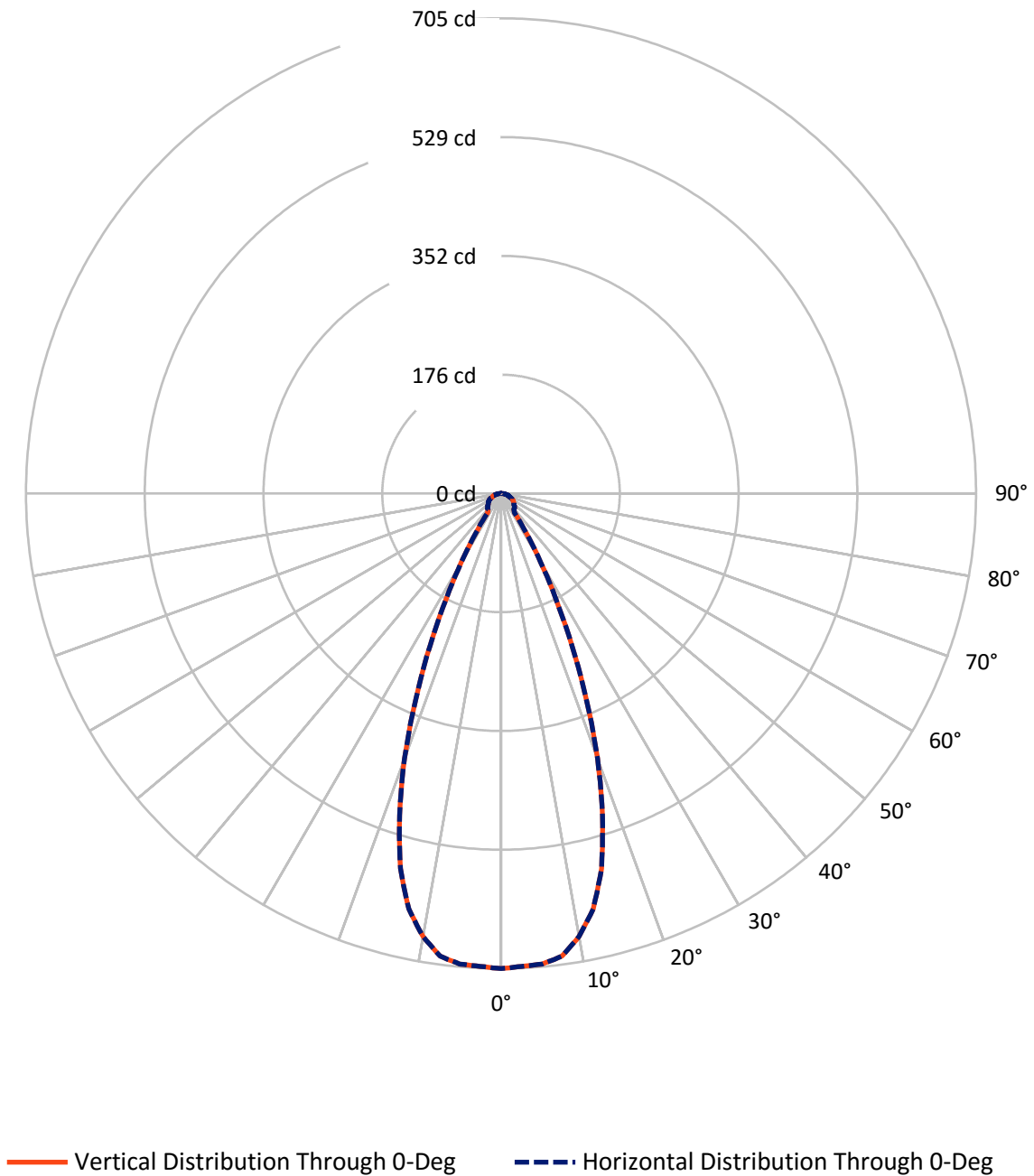
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Lumen Table

90	0.0	0.2	0.5	0.7	0.8	0.7	0.5	0.2	0.0										
80	0.0	0.2	0.5	0.7	0.8	0.7	0.5	0.2	0.0										
70	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.5	0.5	0.5	0.4	0.3	0.3	0.2	0.1	0.1			
60		0.1	0.2	0.3	0.5	0.6	0.7	0.7	0.7	0.7	0.6	0.5	0.3	0.2	0.1				
50	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.8	0.8	0.8	0.7	0.6	0.4	0.3	0.2	0.1			
40		0.2	0.3	0.5	0.7	0.8	1.1	1.5	1.5	1.1	0.8	0.7	0.5	0.3	0.2				
30	0.2	0.2	0.4	0.5	0.7	1.5	4.3	7.2	7.2	4.3	1.5	0.7	0.5	0.4	0.2	0.2			
20		0.2	0.4	0.6	0.9	4.1	11.0	16.2	16.2	11.0	4.1	0.9	0.6	0.4	0.2				
10	0.2	0.2	0.4	0.6	1.2	6.6	15.7	20.6	20.6	15.7	6.6	1.2	0.6	0.4	0.2	0.2			
0		0.2	0.4	0.6	1.2	6.6	15.7	20.6	20.6	15.7	6.6	1.2	0.6	0.4	0.2				
-10	0.2	0.2	0.4	0.6	1.2	6.6	15.7	20.6	20.6	15.7	6.6	1.2	0.6	0.4	0.2	0.2			
-20		0.2	0.4	0.6	0.9	4.1	11.0	16.2	16.2	11.0	4.1	0.9	0.6	0.4	0.2				
-30	0.1	0.2	0.3	0.5	0.7	1.5	4.3	7.2	7.2	4.3	1.5	0.7	0.5	0.4	0.2	0.1			
-40		0.2	0.3	0.4	0.6	0.7	0.8	0.8	0.8	0.8	0.7	0.6	0.4	0.3	0.2				
-50	0.1	0.1	0.2	0.3	0.5	0.6	0.7	0.7	0.7	0.7	0.6	0.5	0.3	0.2	0.1	0.1			
-60		0.1	0.2	0.3	0.3	0.4	0.5	0.5	0.5	0.5	0.4	0.3	0.3	0.2	0.1				
-70	0.0	0.2	0.5	0.7	0.8	0.7	0.5	0.2	0.0							0.0			
-80		0.2	0.5	0.7	0.8	0.7	0.5	0.2	0.0										
-90	0.0	0.2	0.5	0.7	0.8	0.7	0.5	0.2	0.0										
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

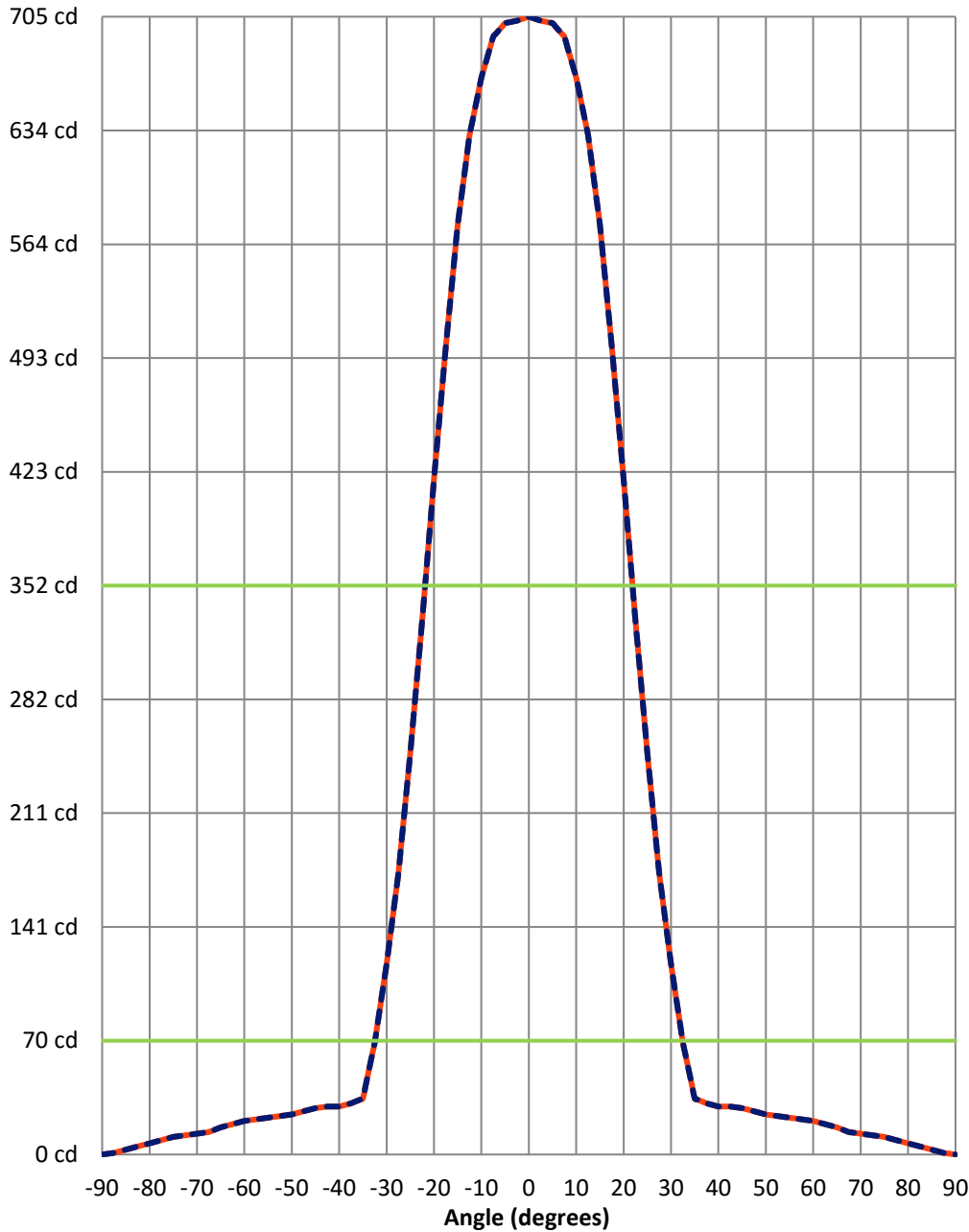
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CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LEDCW-W-WT-LC1-UNV

Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 43.8°
 V Angle: 43.8°
 Lumens: 252.8
 Efficiency: 57.5%

Field:
 H Angle: 64.9°
 V Angle: 64.9°
 Lumens: 347.9
 Efficiency: 79.1%

Spill:
 Lumens: 91.8
 Efficiency: 20.9%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
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	0.2	0.2	0.3	0.3	0.3	0.4	0.4
85°	0.0	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.8
82.5°	0.0	0.1	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.3	1.5
80°	0.0	0.2	0.3	0.5	0.7	0.9	1.1	1.4	1.7	2.0	2.4
77.5°	0.0	0.2	0.4	0.6	0.9	1.1	1.6	2.0	2.4	2.8	3.2
75°	0.0	0.3	0.5	0.8	1.1	1.6	2.1	2.6	3.1	3.5	4.0
72.5°	0.0	0.3	0.6	0.9	1.4	2.0	2.6	3.2	3.7	4.3	4.8
70°	0.0	0.3	0.7	1.0	1.7	2.4	3.1	3.7	4.4	5.0	5.6
67.5°	0.0	0.4	0.8	1.3	2.0	2.8	3.5	4.3	5.0	5.7	6.4
65°	0.0	0.4	0.8	1.5	2.4	3.2	4.0	4.8	5.6	6.4	7.1
62.5°	0.0	0.5	0.9	1.8	2.7	3.6	4.5	5.4	6.2	7.0	7.9
60°	0.0	0.5	1.0	2.0	3.0	4.0	4.9	5.9	6.8	7.7	8.7
57.5°	0.0	0.5	1.1	2.2	3.3	4.3	5.4	6.4	7.4	8.4	9.4
55°	0.0	0.6	1.3	2.4	3.6	4.7	5.8	6.8	8.0	9.0	10.1
52.5°	0.0	0.6	1.4	2.6	3.9	5.1	6.2	7.3	8.5	9.7	10.8
50°	0.0	0.6	1.6	2.9	4.1	5.4	6.6	7.8	9.1	10.3	11.2
47.5°	0.0	0.7	1.7	3.0	4.4	5.7	7.0	8.3	9.6	10.9	11.5
45°	0.0	0.7	1.8	3.2	4.6	6.0	7.3	8.7	10.1	11.2	11.9
42.5°	0.0	0.7	1.9	3.4	4.9	6.3	7.7	9.1	10.6	11.5	12.2
40°	0.0	0.8	2.1	3.6	5.1	6.6	8.0	9.6	11.0	11.7	12.5
37.5°	0.0	0.8	2.2	3.8	5.3	6.8	8.4	9.9	11.2	12.0	12.7
35°	0.0	0.8	2.3	3.9	5.5	7.1	8.7	10.3	11.4	12.2	13.0
32.5°	0.0	0.8	2.4	4.1	5.7	7.3	9.0	10.7	11.6	12.4	13.3
30°	0.0	0.9	2.5	4.2	5.9	7.5	9.3	10.9	11.8	12.6	13.5
27.5°	0.0	0.9	2.5	4.3	6.0	7.8	9.5	11.1	12.0	12.8	13.7
25°	0.0	0.9	2.6	4.4	6.2	8.0	9.8	11.2	12.1	13.0	13.9
22.5°	0.0	0.9	2.7	4.5	6.3	8.1	10.0	11.4	12.3	13.2	14.5
20°	0.0	0.9	2.8	4.6	6.4	8.3	10.2	11.5	12.4	13.3	14.9
17.5°	0.0	1.0	2.8	4.7	6.5	8.4	10.3	11.6	12.5	13.5	15.4
15°	0.0	1.0	2.9	4.8	6.6	8.6	10.5	11.7	12.6	13.6	15.7
12.5°	0.0	1.0	2.9	4.9	6.7	8.7	10.6	11.7	12.7	13.7	16.1
10°	0.0	1.0	2.9	4.9	6.8	8.7	10.7	11.8	12.8	13.8	16.3
7.5°	0.0	1.0	3.0	4.9	6.8	8.8	10.8	11.8	12.8	13.8	16.5
5°	0.0	1.0	3.0	5.0	6.9	8.9	10.9	11.9	12.9	13.9	16.7
2.5°	0.0	1.0	3.0	5.0	6.9	8.9	10.9	11.9	12.9	13.9	16.8
0°	0.0	1.0	3.0	5.0	6.9	8.9	10.9	11.9	12.9	13.9	16.8
-2.5°	0.0	1.0	3.0	5.0	6.9	8.9	10.9	11.9	12.9	13.9	16.8
-5°	0.0	1.0	3.0	5.0	6.9	8.9	10.9	11.9	12.9	13.9	16.7
-7.5°	0.0	1.0	3.0	4.9	6.8	8.8	10.8	11.8	12.8	13.8	16.5
-10°	0.0	1.0	2.9	4.9	6.8	8.7	10.7	11.8	12.8	13.8	16.3
-12.5°	0.0	1.0	2.9	4.9	6.7	8.7	10.6	11.7	12.7	13.7	16.1
-15°	0.0	1.0	2.9	4.8	6.6	8.6	10.5	11.7	12.6	13.6	15.7
-17.5°	0.0	1.0	2.8	4.7	6.5	8.4	10.3	11.6	12.5	13.5	15.4
-20°	0.0	0.9	2.8	4.6	6.4	8.3	10.2	11.5	12.4	13.3	14.9



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LEDCW-W-WT-LC1-UNV

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	0.9	2.7	4.5	6.3	8.1	10.0	11.4	12.3	13.2	14.5
-25°	0.0	0.9	2.6	4.4	6.2	8.0	9.8	11.2	12.1	13.0	13.9
-27.5°	0.0	0.9	2.5	4.3	6.0	7.8	9.5	11.1	12.0	12.8	13.7
-30°	0.0	0.9	2.5	4.2	5.9	7.5	9.3	10.9	11.8	12.6	13.5
-32.5°	0.0	0.8	2.4	4.1	5.7	7.3	9.0	10.7	11.6	12.4	13.3
-35°	0.0	0.8	2.3	3.9	5.5	7.1	8.7	10.3	11.4	12.2	13.0
-37.5°	0.0	0.8	2.2	3.8	5.3	6.8	8.4	9.9	11.2	12.0	12.7
-40°	0.0	0.8	2.1	3.6	5.1	6.6	8.0	9.6	11.0	11.7	12.5
-42.5°	0.0	0.7	1.9	3.4	4.9	6.3	7.7	9.1	10.6	11.5	12.2
-45°	0.0	0.7	1.8	3.2	4.6	6.0	7.3	8.7	10.1	11.2	11.9
-47.5°	0.0	0.7	1.7	3.0	4.4	5.7	7.0	8.3	9.6	10.9	11.5
-50°	0.0	0.6	1.6	2.9	4.1	5.4	6.6	7.8	9.1	10.3	11.2
-52.5°	0.0	0.6	1.4	2.6	3.9	5.1	6.2	7.3	8.5	9.7	10.8
-55°	0.0	0.6	1.3	2.4	3.6	4.7	5.8	6.8	8.0	9.0	10.1
-57.5°	0.0	0.5	1.1	2.2	3.3	4.3	5.4	6.4	7.4	8.4	9.4
-60°	0.0	0.5	1.0	2.0	3.0	4.0	4.9	5.9	6.8	7.7	8.7
-62.5°	0.0	0.5	0.9	1.8	2.7	3.6	4.5	5.4	6.2	7.0	7.9
-65°	0.0	0.4	0.8	1.5	2.4	3.2	4.0	4.8	5.6	6.4	7.1
-67.5°	0.0	0.4	0.8	1.3	2.0	2.8	3.5	4.3	5.0	5.7	6.4
-70°	0.0	0.3	0.7	1.0	1.7	2.4	3.1	3.7	4.4	5.0	5.6
-72.5°	0.0	0.3	0.6	0.9	1.4	2.0	2.6	3.2	3.7	4.3	4.8
-75°	0.0	0.3	0.5	0.8	1.1	1.6	2.1	2.6	3.1	3.5	4.0
-77.5°	0.0	0.2	0.4	0.6	0.9	1.1	1.6	2.0	2.4	2.8	3.2
-80°	0.0	0.2	0.3	0.5	0.7	0.9	1.1	1.4	1.7	2.0	2.4
-82.5°	0.0	0.1	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.3	1.5
-85°	0.0	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.8
-87.5°	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.4	0.4
-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):

	-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°	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.8	0.8
85°	0.9	1.0	1.1	1.3	1.4	1.6	1.7	1.8	1.9	2.1	2.2
82.5°	1.8	2.0	2.2	2.4	2.6	2.9	3.0	3.2	3.4	3.6	3.8
80°	2.7	3.0	3.3	3.6	3.9	4.1	4.4	4.6	4.9	5.1	5.3
77.5°	3.6	4.0	4.3	4.7	5.1	5.4	5.7	6.0	6.3	6.6	6.8
75°	4.5	4.9	5.4	5.8	6.2	6.6	7.0	7.3	7.7	8.0	8.4
72.5°	5.4	5.9	6.4	6.8	7.3	7.8	8.3	8.7	9.1	9.6	9.9
70°	6.2	6.8	7.4	8.0	8.5	9.1	9.6	10.1	10.6	11.0	11.2
67.5°	7.0	7.7	8.4	9.0	9.7	10.3	10.9	11.2	11.5	11.7	12.0
65°	7.9	8.7	9.4	10.1	10.8	11.2	11.5	11.9	12.2	12.5	12.7
62.5°	8.7	9.6	10.4	11.0	11.4	11.8	12.2	12.5	12.9	13.2	13.5
60°	9.6	10.5	11.1	11.6	12.0	12.4	12.8	13.2	13.6	13.9	14.9
57.5°	10.4	11.1	11.6	12.1	12.5	13.0	13.4	13.8	14.9	16.0	17.0
55°	11.0	11.6	12.1	12.6	13.1	13.6	14.2	15.6	16.8	17.7	18.5
52.5°	11.4	12.0	12.5	13.1	13.6	14.5	16.0	17.2	18.1	19.0	19.9
50°	11.8	12.4	13.0	13.6	14.5	16.1	17.4	18.4	19.4	20.4	21.1
47.5°	12.2	12.8	13.4	14.2	16.0	17.4	18.5	19.6	20.7	21.3	21.8
45°	12.5	13.2	13.8	15.6	17.2	18.4	19.6	20.8	21.4	21.9	22.4
42.5°	12.9	13.6	14.9	16.8	18.1	19.4	20.7	21.4	22.0	22.6	23.1
40°	13.2	13.9	16.0	17.7	19.0	20.4	21.3	21.9	22.6	23.2	23.8
37.5°	13.5	14.9	17.0	18.5	19.9	21.1	21.8	22.4	23.1	23.8	24.4
35°	13.8	15.8	17.7	19.2	20.7	21.5	22.2	23.0	23.7	24.3	25.2
32.5°	14.4	16.7	18.4	19.9	21.2	21.9	22.7	23.4	24.2	25.0	26.4
30°	15.1	17.3	19.0	20.6	21.5	22.3	23.1	23.9	24.7	26.0	27.5
27.5°	15.8	17.9	19.6	21.0	21.9	22.7	23.5	24.3	25.5	27.0	28.5
25°	16.5	18.4	20.1	21.3	22.2	23.1	23.9	24.7	26.3	27.9	29.1
22.5°	17.0	18.8	20.6	21.6	22.5	23.4	24.2	25.4	27.1	28.7	29.6
20°	17.4	19.2	20.9	21.8	22.8	23.7	24.6	26.1	27.8	29.1	29.7
17.5°	17.7	19.6	21.1	22.1	23.0	23.9	24.9	26.7	28.5	29.5	29.7
15°	18.0	19.9	21.3	22.3	23.2	24.2	25.4	27.2	28.9	29.7	29.7
12.5°	18.2	20.2	21.5	22.4	23.4	24.3	25.8	27.7	29.1	29.7	30.3
10°	18.4	20.4	21.6	22.6	23.5	24.5	26.2	28.0	29.3	29.7	30.8
7.5°	18.6	20.6	21.7	22.7	23.6	24.6	26.4	28.3	29.5	29.7	31.2
5°	18.7	20.7	21.7	22.7	23.7	24.7	26.6	28.5	29.6	29.7	31.5
2.5°	18.8	20.8	21.8	22.8	23.8	24.8	26.8	28.7	29.7	29.7	31.6
0°	18.8	20.8	21.8	22.8	23.8	24.8	26.8	28.7	29.7	29.7	31.7
-2.5°	18.8	20.8	21.8	22.8	23.8	24.8	26.8	28.7	29.7	29.7	31.6
-5°	18.7	20.7	21.7	22.7	23.7	24.7	26.6	28.5	29.6	29.7	31.5
-7.5°	18.6	20.6	21.7	22.7	23.6	24.6	26.4	28.3	29.5	29.7	31.2
-10°	18.4	20.4	21.6	22.6	23.5	24.5	26.2	28.0	29.3	29.7	30.8
-12.5°	18.2	20.2	21.5	22.4	23.4	24.3	25.8	27.7	29.1	29.7	30.3
-15°	18.0	19.9	21.3	22.3	23.2	24.2	25.4	27.2	28.9	29.7	29.7
-17.5°	17.7	19.6	21.1	22.1	23.0	23.9	24.9	26.7	28.5	29.5	29.7
-20°	17.4	19.2	20.9	21.8	22.8	23.7	24.6	26.1	27.8	29.1	29.7



REPORT NUMBER: P221131 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LEDCW-W-WT-LC1-UNV

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	17.0	18.8	20.6	21.6	22.5	23.4	24.2	25.4	27.1	28.7	29.6
-25°	16.5	18.4	20.1	21.3	22.2	23.1	23.9	24.7	26.3	27.9	29.1
-27.5°	15.8	17.9	19.6	21.0	21.9	22.7	23.5	24.3	25.5	27.0	28.5
-30°	15.1	17.3	19.0	20.6	21.5	22.3	23.1	23.9	24.7	26.0	27.5
-32.5°	14.4	16.7	18.4	19.9	21.2	21.9	22.7	23.4	24.2	25.0	26.4
-35°	13.8	15.8	17.7	19.2	20.7	21.5	22.2	23.0	23.7	24.3	25.2
-37.5°	13.5	14.9	17.0	18.5	19.9	21.1	21.8	22.4	23.1	23.8	24.4
-40°	13.2	13.9	16.0	17.7	19.0	20.4	21.3	21.9	22.6	23.2	23.8
-42.5°	12.9	13.6	14.9	16.8	18.1	19.4	20.7	21.4	22.0	22.6	23.1
-45°	12.5	13.2	13.8	15.6	17.2	18.4	19.6	20.8	21.4	21.9	22.4
-47.5°	12.2	12.8	13.4	14.2	16.0	17.4	18.5	19.6	20.7	21.3	21.8
-50°	11.8	12.4	13.0	13.6	14.5	16.1	17.4	18.4	19.4	20.4	21.1
-52.5°	11.4	12.0	12.5	13.1	13.6	14.5	16.0	17.2	18.1	19.0	19.9
-55°	11.0	11.6	12.1	12.6	13.1	13.6	14.2	15.6	16.8	17.7	18.5
-57.5°	10.4	11.1	11.6	12.1	12.5	13.0	13.4	13.8	14.9	16.0	17.0
-60°	9.6	10.5	11.1	11.6	12.0	12.4	12.8	13.2	13.6	13.9	14.9
-62.5°	8.7	9.6	10.4	11.0	11.4	11.8	12.2	12.5	12.9	13.2	13.5
-65°	7.9	8.7	9.4	10.1	10.8	11.2	11.5	11.9	12.2	12.5	12.7
-67.5°	7.0	7.7	8.4	9.0	9.7	10.3	10.9	11.2	11.5	11.7	12.0
-70°	6.2	6.8	7.4	8.0	8.5	9.1	9.6	10.1	10.6	11.0	11.2
-72.5°	5.4	5.9	6.4	6.8	7.3	7.8	8.3	8.7	9.1	9.6	9.9
-75°	4.5	4.9	5.4	5.8	6.2	6.6	7.0	7.3	7.7	8.0	8.4
-77.5°	3.6	4.0	4.3	4.7	5.1	5.4	5.7	6.0	6.3	6.6	6.8
-80°	2.7	3.0	3.3	3.6	3.9	4.1	4.4	4.6	4.9	5.1	5.3
-82.5°	1.8	2.0	2.2	2.4	2.6	2.9	3.0	3.2	3.4	3.6	3.8
-85°	0.9	1.0	1.1	1.3	1.4	1.6	1.7	1.8	1.9	2.1	2.2
-87.5°	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7	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



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LEDCW-W-WT-LC1-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°	0.8	0.8	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0
85°	2.3	2.4	2.5	2.5	2.6	2.7	2.8	2.8	2.9	2.9	2.9
82.5°	3.9	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	4.9
80°	5.5	5.7	5.9	6.0	6.2	6.3	6.4	6.5	6.6	6.7	6.8
77.5°	7.1	7.3	7.5	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.7
75°	8.7	9.0	9.3	9.5	9.8	10.0	10.2	10.3	10.5	10.6	10.7
72.5°	10.3	10.7	10.9	11.1	11.2	11.4	11.5	11.6	11.7	11.7	11.8
70°	11.4	11.6	11.8	12.0	12.1	12.3	12.4	12.5	12.6	12.7	12.8
67.5°	12.2	12.4	12.6	12.8	13.0	13.2	13.3	13.5	13.6	13.7	13.8
65°	13.0	13.3	13.5	13.7	13.9	14.5	14.9	15.4	15.7	16.1	16.3
62.5°	13.8	14.4	15.1	15.8	16.5	17.0	17.4	17.7	18.0	18.2	18.4
60°	15.8	16.7	17.3	17.9	18.4	18.8	19.2	19.6	19.9	20.2	20.4
57.5°	17.7	18.4	19.0	19.6	20.1	20.6	20.9	21.1	21.3	21.5	21.6
55°	19.2	19.9	20.6	21.0	21.3	21.6	21.8	22.1	22.3	22.4	22.6
52.5°	20.7	21.2	21.5	21.9	22.2	22.5	22.8	23.0	23.2	23.4	23.5
50°	21.5	21.9	22.3	22.7	23.1	23.4	23.7	23.9	24.2	24.3	24.5
47.5°	22.2	22.7	23.1	23.5	23.9	24.2	24.6	24.9	25.4	25.8	26.2
45°	23.0	23.4	23.9	24.3	24.7	25.4	26.1	26.7	27.2	27.7	28.0
42.5°	23.7	24.2	24.7	25.5	26.3	27.1	27.8	28.5	28.9	29.1	29.3
40°	24.3	25.0	26.0	27.0	27.9	28.7	29.1	29.5	29.7	29.7	29.7
37.5°	25.2	26.4	27.5	28.5	29.1	29.6	29.7	29.7	29.7	30.3	30.8
35°	26.5	27.7	28.8	29.3	29.7	29.7	30.0	30.8	31.5	32.4	33.2
32.5°	27.7	28.8	29.5	29.7	29.7	30.6	31.6	33.0	34.2	40.6	50.8
30°	28.8	29.5	29.7	29.9	31.1	32.5	34.1	44.2	59.3	73.8	89.3
27.5°	29.3	29.7	29.9	31.2	32.9	35.2	55.0	74.7	97.7	117.8	136.1
25°	29.7	29.7	31.1	32.9	37.8	60.5	86.7	114.2	141.0	167.5	193.1
22.5°	29.7	30.6	32.5	35.2	60.5	90.7	123.0	156.5	192.6	230.4	263.7
20°	30.0	31.6	34.1	55.0	86.7	123.0	161.8	207.1	254.5	298.1	338.6
17.5°	30.8	33.0	44.2	74.7	114.2	156.5	207.1	262.5	316.8	369.0	415.5
15°	31.5	34.2	59.3	97.7	141.0	192.6	254.5	316.8	379.5	437.4	485.8
12.5°	32.4	40.6	73.8	117.8	167.5	230.4	298.1	369.0	437.4	497.2	548.3
10°	33.2	50.8	89.3	136.1	193.1	263.7	338.6	415.5	485.8	548.3	599.8
7.5°	33.9	58.8	101.6	151.9	216.2	291.1	372.0	452.2	524.6	588.0	631.8
5°	34.3	64.7	110.6	163.8	234.1	312.5	397.2	478.9	553.0	613.5	651.8
2.5°	34.6	68.2	116.1	171.8	245.1	326.0	413.0	495.1	570.0	627.0	663.1
0°	34.7	69.4	117.9	174.5	248.8	330.6	418.3	500.6	575.8	631.4	667.0
-2.5°	34.6	68.2	116.1	171.8	245.1	326.0	413.0	495.1	570.0	627.0	663.1
-5°	34.3	64.7	110.6	163.8	234.1	312.5	397.2	478.9	553.0	613.5	651.8
-7.5°	33.9	58.8	101.6	151.9	216.2	291.1	372.0	452.2	524.6	588.0	631.8
-10°	33.2	50.8	89.3	136.1	193.1	263.7	338.6	415.5	485.8	548.3	599.8
-12.5°	32.4	40.6	73.8	117.8	167.5	230.4	298.1	369.0	437.4	497.2	548.3
-15°	31.5	34.2	59.3	97.7	141.0	192.6	254.5	316.8	379.5	437.4	485.8
-17.5°	30.8	33.0	44.2	74.7	114.2	156.5	207.1	262.5	316.8	369.0	415.5
-20°	30.0	31.6	34.1	55.0	86.7	123.0	161.8	207.1	254.5	298.1	338.6



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	29.7	30.6	32.5	35.2	60.5	90.7	123.0	156.5	192.6	230.4	263.7
-25°	29.7	29.7	31.1	32.9	37.8	60.5	86.7	114.2	141.0	167.5	193.1
-27.5°	29.3	29.7	29.9	31.2	32.9	35.2	55.0	74.7	97.7	117.8	136.1
-30°	28.8	29.5	29.7	29.9	31.1	32.5	34.1	44.2	59.3	73.8	89.3
-32.5°	27.7	28.8	29.5	29.7	29.7	30.6	31.6	33.0	34.2	40.6	50.8
-35°	26.5	27.7	28.8	29.3	29.7	29.7	30.0	30.8	31.5	32.4	33.2
-37.5°	25.2	26.4	27.5	28.5	29.1	29.6	29.7	29.7	29.7	30.3	30.8
-40°	24.3	25.0	26.0	27.0	27.9	28.7	29.1	29.5	29.7	29.7	29.7
-42.5°	23.7	24.2	24.7	25.5	26.3	27.1	27.8	28.5	28.9	29.1	29.3
-45°	23.0	23.4	23.9	24.3	24.7	25.4	26.1	26.7	27.2	27.7	28.0
-47.5°	22.2	22.7	23.1	23.5	23.9	24.2	24.6	24.9	25.4	25.8	26.2
-50°	21.5	21.9	22.3	22.7	23.1	23.4	23.7	23.9	24.2	24.3	24.5
-52.5°	20.7	21.2	21.5	21.9	22.2	22.5	22.8	23.0	23.2	23.4	23.5
-55°	19.2	19.9	20.6	21.0	21.3	21.6	21.8	22.1	22.3	22.4	22.6
-57.5°	17.7	18.4	19.0	19.6	20.1	20.6	20.9	21.1	21.3	21.5	21.6
-60°	15.8	16.7	17.3	17.9	18.4	18.8	19.2	19.6	19.9	20.2	20.4
-62.5°	13.8	14.4	15.1	15.8	16.5	17.0	17.4	17.7	18.0	18.2	18.4
-65°	13.0	13.3	13.5	13.7	13.9	14.5	14.9	15.4	15.7	16.1	16.3
-67.5°	12.2	12.4	12.6	12.8	13.0	13.2	13.3	13.5	13.6	13.7	13.8
-70°	11.4	11.6	11.8	12.0	12.1	12.3	12.4	12.5	12.6	12.7	12.8
-72.5°	10.3	10.7	10.9	11.1	11.2	11.4	11.5	11.6	11.7	11.7	11.8
-75°	8.7	9.0	9.3	9.5	9.8	10.0	10.2	10.3	10.5	10.6	10.7
-77.5°	7.1	7.3	7.5	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.7
-80°	5.5	5.7	5.9	6.0	6.2	6.3	6.4	6.5	6.6	6.7	6.8
-82.5°	3.9	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	4.9
-85°	2.3	2.4	2.5	2.5	2.6	2.7	2.8	2.8	2.9	2.9	2.9
-87.5°	0.8	0.8	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0
-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):

	-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°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.9	2.8
82.5°	4.9	5.0	5.0	5.0	5.0	5.0	4.9	4.9	4.9	4.8	4.7
80°	6.8	6.9	6.9	6.9	6.9	6.9	6.8	6.8	6.7	6.6	6.5
77.5°	8.8	8.9	8.9	8.9	8.9	8.9	8.8	8.7	8.7	8.6	8.4
75°	10.8	10.9	10.9	10.9	10.9	10.9	10.8	10.7	10.6	10.5	10.3
72.5°	11.8	11.9	11.9	11.9	11.9	11.9	11.8	11.8	11.7	11.7	11.6
70°	12.8	12.9	12.9	12.9	12.9	12.9	12.8	12.8	12.7	12.6	12.5
67.5°	13.8	13.9	13.9	13.9	13.9	13.9	13.8	13.8	13.7	13.6	13.5
65°	16.5	16.7	16.8	16.8	16.8	16.7	16.5	16.3	16.1	15.7	15.4
62.5°	18.6	18.7	18.8	18.8	18.8	18.7	18.6	18.4	18.2	18.0	17.7
60°	20.6	20.7	20.8	20.8	20.8	20.7	20.6	20.4	20.2	19.9	19.6
57.5°	21.7	21.7	21.8	21.8	21.8	21.7	21.7	21.6	21.5	21.3	21.1
55°	22.7	22.7	22.8	22.8	22.8	22.7	22.7	22.6	22.4	22.3	22.1
52.5°	23.6	23.7	23.8	23.8	23.8	23.7	23.6	23.5	23.4	23.2	23.0
50°	24.6	24.7	24.8	24.8	24.8	24.7	24.6	24.5	24.3	24.2	23.9
47.5°	26.4	26.6	26.8	26.8	26.8	26.6	26.4	26.2	25.8	25.4	24.9
45°	28.3	28.5	28.7	28.7	28.7	28.5	28.3	28.0	27.7	27.2	26.7
42.5°	29.5	29.6	29.7	29.7	29.7	29.6	29.5	29.3	29.1	28.9	28.5
40°	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.5
37.5°	31.2	31.5	31.6	31.7	31.6	31.5	31.2	30.8	30.3	29.7	29.7
35°	33.9	34.3	34.6	34.7	34.6	34.3	33.9	33.2	32.4	31.5	30.8
32.5°	58.8	64.7	68.2	69.4	68.2	64.7	58.8	50.8	40.6	34.2	33.0
30°	101.6	110.6	116.1	117.9	116.1	110.6	101.6	89.3	73.8	59.3	44.2
27.5°	151.9	163.8	171.8	174.5	171.8	163.8	151.9	136.1	117.8	97.7	74.7
25°	216.2	234.1	245.1	248.8	245.1	234.1	216.2	193.1	167.5	141.0	114.2
22.5°	291.1	312.5	326.0	330.6	326.0	312.5	291.1	263.7	230.4	192.6	156.5
20°	372.0	397.2	413.0	418.3	413.0	397.2	372.0	338.6	298.1	254.5	207.1
17.5°	452.2	478.9	495.1	500.6	495.1	478.9	452.2	415.5	369.0	316.8	262.5
15°	524.6	553.0	570.0	575.8	570.0	553.0	524.6	485.8	437.4	379.5	316.8
12.5°	588.0	613.5	627.0	631.4	627.0	613.5	588.0	548.3	497.2	437.4	369.0
10°	631.8	651.8	663.1	667.0	663.1	651.8	631.8	599.8	548.3	485.8	415.5
7.5°	659.4	678.8	689.5	692.3	689.5	678.8	659.4	631.8	588.0	524.6	452.2
5°	678.8	695.3	699.5	700.7	699.5	695.3	678.8	651.8	613.5	553.0	478.9
2.5°	689.5	699.5	701.7	702.2	701.7	699.5	689.5	663.1	627.0	570.0	495.1
0°	692.3	700.7	702.2	704.7	702.2	700.7	692.3	667.0	631.4	575.8	500.6
-2.5°	689.5	699.5	701.7	702.2	701.7	699.5	689.5	663.1	627.0	570.0	495.1
-5°	678.8	695.3	699.5	700.7	699.5	695.3	678.8	651.8	613.5	553.0	478.9
-7.5°	659.4	678.8	689.5	692.3	689.5	678.8	659.4	631.8	588.0	524.6	452.2
-10°	631.8	651.8	663.1	667.0	663.1	651.8	631.8	599.8	548.3	485.8	415.5
-12.5°	588.0	613.5	627.0	631.4	627.0	613.5	588.0	548.3	497.2	437.4	369.0
-15°	524.6	553.0	570.0	575.8	570.0	553.0	524.6	485.8	437.4	379.5	316.8
-17.5°	452.2	478.9	495.1	500.6	495.1	478.9	452.2	415.5	369.0	316.8	262.5
-20°	372.0	397.2	413.0	418.3	413.0	397.2	372.0	338.6	298.1	254.5	207.1



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	291.1	312.5	326.0	330.6	326.0	312.5	291.1	263.7	230.4	192.6	156.5
-25°	216.2	234.1	245.1	248.8	245.1	234.1	216.2	193.1	167.5	141.0	114.2
-27.5°	151.9	163.8	171.8	174.5	171.8	163.8	151.9	136.1	117.8	97.7	74.7
-30°	101.6	110.6	116.1	117.9	116.1	110.6	101.6	89.3	73.8	59.3	44.2
-32.5°	58.8	64.7	68.2	69.4	68.2	64.7	58.8	50.8	40.6	34.2	33.0
-35°	33.9	34.3	34.6	34.7	34.6	34.3	33.9	33.2	32.4	31.5	30.8
-37.5°	31.2	31.5	31.6	31.7	31.6	31.5	31.2	30.8	30.3	29.7	29.7
-40°	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.5
-42.5°	29.5	29.6	29.7	29.7	29.7	29.6	29.5	29.3	29.1	28.9	28.5
-45°	28.3	28.5	28.7	28.7	28.7	28.5	28.3	28.0	27.7	27.2	26.7
-47.5°	26.4	26.6	26.8	26.8	26.8	26.6	26.4	26.2	25.8	25.4	24.9
-50°	24.6	24.7	24.8	24.8	24.8	24.7	24.6	24.5	24.3	24.2	23.9
-52.5°	23.6	23.7	23.8	23.8	23.8	23.7	23.6	23.5	23.4	23.2	23.0
-55°	22.7	22.7	22.8	22.8	22.8	22.7	22.7	22.6	22.4	22.3	22.1
-57.5°	21.7	21.7	21.8	21.8	21.8	21.7	21.7	21.6	21.5	21.3	21.1
-60°	20.6	20.7	20.8	20.8	20.8	20.7	20.6	20.4	20.2	19.9	19.6
-62.5°	18.6	18.7	18.8	18.8	18.8	18.7	18.6	18.4	18.2	18.0	17.7
-65°	16.5	16.7	16.8	16.8	16.8	16.7	16.5	16.3	16.1	15.7	15.4
-67.5°	13.8	13.9	13.9	13.9	13.9	13.9	13.8	13.8	13.7	13.6	13.5
-70°	12.8	12.9	12.9	12.9	12.9	12.9	12.8	12.8	12.7	12.6	12.5
-72.5°	11.8	11.9	11.9	11.9	11.9	11.9	11.8	11.8	11.7	11.7	11.6
-75°	10.8	10.9	10.9	10.9	10.9	10.9	10.8	10.7	10.6	10.5	10.3
-77.5°	8.8	8.9	8.9	8.9	8.9	8.9	8.8	8.7	8.7	8.6	8.4
-80°	6.8	6.9	6.9	6.9	6.9	6.9	6.8	6.8	6.7	6.6	6.5
-82.5°	4.9	5.0	5.0	5.0	5.0	5.0	4.9	4.9	4.9	4.8	4.7
-85°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.9	2.8
-87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
-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):

	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°	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.7	0.7
85°	2.8	2.7	2.6	2.5	2.5	2.4	2.3	2.2	2.1	1.9	1.8
82.5°	4.6	4.5	4.4	4.3	4.2	4.1	3.9	3.8	3.6	3.4	3.2
80°	6.4	6.3	6.2	6.0	5.9	5.7	5.5	5.3	5.1	4.9	4.6
77.5°	8.3	8.1	8.0	7.8	7.5	7.3	7.1	6.8	6.6	6.3	6.0
75°	10.2	10.0	9.8	9.5	9.3	9.0	8.7	8.4	8.0	7.7	7.3
72.5°	11.5	11.4	11.2	11.1	10.9	10.7	10.3	9.9	9.6	9.1	8.7
70°	12.4	12.3	12.1	12.0	11.8	11.6	11.4	11.2	11.0	10.6	10.1
67.5°	13.3	13.2	13.0	12.8	12.6	12.4	12.2	12.0	11.7	11.5	11.2
65°	14.9	14.5	13.9	13.7	13.5	13.3	13.0	12.7	12.5	12.2	11.9
62.5°	17.4	17.0	16.5	15.8	15.1	14.4	13.8	13.5	13.2	12.9	12.5
60°	19.2	18.8	18.4	17.9	17.3	16.7	15.8	14.9	13.9	13.6	13.2
57.5°	20.9	20.6	20.1	19.6	19.0	18.4	17.7	17.0	16.0	14.9	13.8
55°	21.8	21.6	21.3	21.0	20.6	19.9	19.2	18.5	17.7	16.8	15.6
52.5°	22.8	22.5	22.2	21.9	21.5	21.2	20.7	19.9	19.0	18.1	17.2
50°	23.7	23.4	23.1	22.7	22.3	21.9	21.5	21.1	20.4	19.4	18.4
47.5°	24.6	24.2	23.9	23.5	23.1	22.7	22.2	21.8	21.3	20.7	19.6
45°	26.1	25.4	24.7	24.3	23.9	23.4	23.0	22.4	21.9	21.4	20.8
42.5°	27.8	27.1	26.3	25.5	24.7	24.2	23.7	23.1	22.6	22.0	21.4
40°	29.1	28.7	27.9	27.0	26.0	25.0	24.3	23.8	23.2	22.6	21.9
37.5°	29.7	29.6	29.1	28.5	27.5	26.4	25.2	24.4	23.8	23.1	22.4
35°	30.0	29.7	29.7	29.3	28.8	27.7	26.5	25.2	24.3	23.7	23.0
32.5°	31.6	30.6	29.7	29.7	29.5	28.8	27.7	26.4	25.0	24.2	23.4
30°	34.1	32.5	31.1	29.9	29.7	29.5	28.8	27.5	26.0	24.7	23.9
27.5°	55.0	35.2	32.9	31.2	29.9	29.7	29.3	28.5	27.0	25.5	24.3
25°	86.7	60.5	37.8	32.9	31.1	29.7	29.7	29.1	27.9	26.3	24.7
22.5°	123.0	90.7	60.5	35.2	32.5	30.6	29.7	29.6	28.7	27.1	25.4
20°	161.8	123.0	86.7	55.0	34.1	31.6	30.0	29.7	29.1	27.8	26.1
17.5°	207.1	156.5	114.2	74.7	44.2	33.0	30.8	29.7	29.5	28.5	26.7
15°	254.5	192.6	141.0	97.7	59.3	34.2	31.5	29.7	29.7	28.9	27.2
12.5°	298.1	230.4	167.5	117.8	73.8	40.6	32.4	30.3	29.7	29.1	27.7
10°	338.6	263.7	193.1	136.1	89.3	50.8	33.2	30.8	29.7	29.3	28.0
7.5°	372.0	291.1	216.2	151.9	101.6	58.8	33.9	31.2	29.7	29.5	28.3
5°	397.2	312.5	234.1	163.8	110.6	64.7	34.3	31.5	29.7	29.6	28.5
2.5°	413.0	326.0	245.1	171.8	116.1	68.2	34.6	31.6	29.7	29.7	28.7
0°	418.3	330.6	248.8	174.5	117.9	69.4	34.7	31.7	29.7	29.7	28.7
-2.5°	413.0	326.0	245.1	171.8	116.1	68.2	34.6	31.6	29.7	29.7	28.7
-5°	397.2	312.5	234.1	163.8	110.6	64.7	34.3	31.5	29.7	29.6	28.5
-7.5°	372.0	291.1	216.2	151.9	101.6	58.8	33.9	31.2	29.7	29.5	28.3
-10°	338.6	263.7	193.1	136.1	89.3	50.8	33.2	30.8	29.7	29.3	28.0
-12.5°	298.1	230.4	167.5	117.8	73.8	40.6	32.4	30.3	29.7	29.1	27.7
-15°	254.5	192.6	141.0	97.7	59.3	34.2	31.5	29.7	29.7	28.9	27.2
-17.5°	207.1	156.5	114.2	74.7	44.2	33.0	30.8	29.7	29.5	28.5	26.7
-20°	161.8	123.0	86.7	55.0	34.1	31.6	30.0	29.7	29.1	27.8	26.1



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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°	123.0	90.7	60.5	35.2	32.5	30.6	29.7	29.6	28.7	27.1	25.4
-25°	86.7	60.5	37.8	32.9	31.1	29.7	29.7	29.1	27.9	26.3	24.7
-27.5°	55.0	35.2	32.9	31.2	29.9	29.7	29.3	28.5	27.0	25.5	24.3
-30°	34.1	32.5	31.1	29.9	29.7	29.5	28.8	27.5	26.0	24.7	23.9
-32.5°	31.6	30.6	29.7	29.7	29.5	28.8	27.7	26.4	25.0	24.2	23.4
-35°	30.0	29.7	29.7	29.3	28.8	27.7	26.5	25.2	24.3	23.7	23.0
-37.5°	29.7	29.6	29.1	28.5	27.5	26.4	25.2	24.4	23.8	23.1	22.4
-40°	29.1	28.7	27.9	27.0	26.0	25.0	24.3	23.8	23.2	22.6	21.9
-42.5°	27.8	27.1	26.3	25.5	24.7	24.2	23.7	23.1	22.6	22.0	21.4
-45°	26.1	25.4	24.7	24.3	23.9	23.4	23.0	22.4	21.9	21.4	20.8
-47.5°	24.6	24.2	23.9	23.5	23.1	22.7	22.2	21.8	21.3	20.7	19.6
-50°	23.7	23.4	23.1	22.7	22.3	21.9	21.5	21.1	20.4	19.4	18.4
-52.5°	22.8	22.5	22.2	21.9	21.5	21.2	20.7	19.9	19.0	18.1	17.2
-55°	21.8	21.6	21.3	21.0	20.6	19.9	19.2	18.5	17.7	16.8	15.6
-57.5°	20.9	20.6	20.1	19.6	19.0	18.4	17.7	17.0	16.0	14.9	13.8
-60°	19.2	18.8	18.4	17.9	17.3	16.7	15.8	14.9	13.9	13.6	13.2
-62.5°	17.4	17.0	16.5	15.8	15.1	14.4	13.8	13.5	13.2	12.9	12.5
-65°	14.9	14.5	13.9	13.7	13.5	13.3	13.0	12.7	12.5	12.2	11.9
-67.5°	13.3	13.2	13.0	12.8	12.6	12.4	12.2	12.0	11.7	11.5	11.2
-70°	12.4	12.3	12.1	12.0	11.8	11.6	11.4	11.2	11.0	10.6	10.1
-72.5°	11.5	11.4	11.2	11.1	10.9	10.7	10.3	9.9	9.6	9.1	8.7
-75°	10.2	10.0	9.8	9.5	9.3	9.0	8.7	8.4	8.0	7.7	7.3
-77.5°	8.3	8.1	8.0	7.8	7.5	7.3	7.1	6.8	6.6	6.3	6.0
-80°	6.4	6.3	6.2	6.0	5.9	5.7	5.5	5.3	5.1	4.9	4.6
-82.5°	4.6	4.5	4.4	4.3	4.2	4.1	3.9	3.8	3.6	3.4	3.2
-85°	2.8	2.7	2.6	2.5	2.5	2.4	2.3	2.2	2.1	1.9	1.8
-87.5°	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.7	0.7
-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):

	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°	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.3	0.3
85°	1.7	1.6	1.4	1.3	1.1	1.0	0.9	0.8	0.8	0.7	0.6
82.5°	3.0	2.9	2.6	2.4	2.2	2.0	1.8	1.5	1.3	1.0	0.9
80°	4.4	4.1	3.9	3.6	3.3	3.0	2.7	2.4	2.0	1.7	1.4
77.5°	5.7	5.4	5.1	4.7	4.3	4.0	3.6	3.2	2.8	2.4	2.0
75°	7.0	6.6	6.2	5.8	5.4	4.9	4.5	4.0	3.5	3.1	2.6
72.5°	8.3	7.8	7.3	6.8	6.4	5.9	5.4	4.8	4.3	3.7	3.2
70°	9.6	9.1	8.5	8.0	7.4	6.8	6.2	5.6	5.0	4.4	3.7
67.5°	10.9	10.3	9.7	9.0	8.4	7.7	7.0	6.4	5.7	5.0	4.3
65°	11.5	11.2	10.8	10.1	9.4	8.7	7.9	7.1	6.4	5.6	4.8
62.5°	12.2	11.8	11.4	11.0	10.4	9.6	8.7	7.9	7.0	6.2	5.4
60°	12.8	12.4	12.0	11.6	11.1	10.5	9.6	8.7	7.7	6.8	5.9
57.5°	13.4	13.0	12.5	12.1	11.6	11.1	10.4	9.4	8.4	7.4	6.4
55°	14.2	13.6	13.1	12.6	12.1	11.6	11.0	10.1	9.0	8.0	6.8
52.5°	16.0	14.5	13.6	13.1	12.5	12.0	11.4	10.8	9.7	8.5	7.3
50°	17.4	16.1	14.5	13.6	13.0	12.4	11.8	11.2	10.3	9.1	7.8
47.5°	18.5	17.4	16.0	14.2	13.4	12.8	12.2	11.5	10.9	9.6	8.3
45°	19.6	18.4	17.2	15.6	13.8	13.2	12.5	11.9	11.2	10.1	8.7
42.5°	20.7	19.4	18.1	16.8	14.9	13.6	12.9	12.2	11.5	10.6	9.1
40°	21.3	20.4	19.0	17.7	16.0	13.9	13.2	12.5	11.7	11.0	9.6
37.5°	21.8	21.1	19.9	18.5	17.0	14.9	13.5	12.7	12.0	11.2	9.9
35°	22.2	21.5	20.7	19.2	17.7	15.8	13.8	13.0	12.2	11.4	10.3
32.5°	22.7	21.9	21.2	19.9	18.4	16.7	14.4	13.3	12.4	11.6	10.7
30°	23.1	22.3	21.5	20.6	19.0	17.3	15.1	13.5	12.6	11.8	10.9
27.5°	23.5	22.7	21.9	21.0	19.6	17.9	15.8	13.7	12.8	12.0	11.1
25°	23.9	23.1	22.2	21.3	20.1	18.4	16.5	13.9	13.0	12.1	11.2
22.5°	24.2	23.4	22.5	21.6	20.6	18.8	17.0	14.5	13.2	12.3	11.4
20°	24.6	23.7	22.8	21.8	20.9	19.2	17.4	14.9	13.3	12.4	11.5
17.5°	24.9	23.9	23.0	22.1	21.1	19.6	17.7	15.4	13.5	12.5	11.6
15°	25.4	24.2	23.2	22.3	21.3	19.9	18.0	15.7	13.6	12.6	11.7
12.5°	25.8	24.3	23.4	22.4	21.5	20.2	18.2	16.1	13.7	12.7	11.7
10°	26.2	24.5	23.5	22.6	21.6	20.4	18.4	16.3	13.8	12.8	11.8
7.5°	26.4	24.6	23.6	22.7	21.7	20.6	18.6	16.5	13.8	12.8	11.8
5°	26.6	24.7	23.7	22.7	21.7	20.7	18.7	16.7	13.9	12.9	11.9
2.5°	26.8	24.8	23.8	22.8	21.8	20.8	18.8	16.8	13.9	12.9	11.9
0°	26.8	24.8	23.8	22.8	21.8	20.8	18.8	16.8	13.9	12.9	11.9
-2.5°	26.8	24.8	23.8	22.8	21.8	20.8	18.8	16.8	13.9	12.9	11.9
-5°	26.6	24.7	23.7	22.7	21.7	20.7	18.7	16.7	13.9	12.9	11.9
-7.5°	26.4	24.6	23.6	22.7	21.7	20.6	18.6	16.5	13.8	12.8	11.8
-10°	26.2	24.5	23.5	22.6	21.6	20.4	18.4	16.3	13.8	12.8	11.8
-12.5°	25.8	24.3	23.4	22.4	21.5	20.2	18.2	16.1	13.7	12.7	11.7
-15°	25.4	24.2	23.2	22.3	21.3	19.9	18.0	15.7	13.6	12.6	11.7
-17.5°	24.9	23.9	23.0	22.1	21.1	19.6	17.7	15.4	13.5	12.5	11.6
-20°	24.6	23.7	22.8	21.8	20.9	19.2	17.4	14.9	13.3	12.4	11.5



REPORT NUMBER: P221131 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LEDCW-W-WT-LC1-UNV

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	24.2	23.4	22.5	21.6	20.6	18.8	17.0	14.5	13.2	12.3	11.4
-25°	23.9	23.1	22.2	21.3	20.1	18.4	16.5	13.9	13.0	12.1	11.2
-27.5°	23.5	22.7	21.9	21.0	19.6	17.9	15.8	13.7	12.8	12.0	11.1
-30°	23.1	22.3	21.5	20.6	19.0	17.3	15.1	13.5	12.6	11.8	10.9
-32.5°	22.7	21.9	21.2	19.9	18.4	16.7	14.4	13.3	12.4	11.6	10.7
-35°	22.2	21.5	20.7	19.2	17.7	15.8	13.8	13.0	12.2	11.4	10.3
-37.5°	21.8	21.1	19.9	18.5	17.0	14.9	13.5	12.7	12.0	11.2	9.9
-40°	21.3	20.4	19.0	17.7	16.0	13.9	13.2	12.5	11.7	11.0	9.6
-42.5°	20.7	19.4	18.1	16.8	14.9	13.6	12.9	12.2	11.5	10.6	9.1
-45°	19.6	18.4	17.2	15.6	13.8	13.2	12.5	11.9	11.2	10.1	8.7
-47.5°	18.5	17.4	16.0	14.2	13.4	12.8	12.2	11.5	10.9	9.6	8.3
-50°	17.4	16.1	14.5	13.6	13.0	12.4	11.8	11.2	10.3	9.1	7.8
-52.5°	16.0	14.5	13.6	13.1	12.5	12.0	11.4	10.8	9.7	8.5	7.3
-55°	14.2	13.6	13.1	12.6	12.1	11.6	11.0	10.1	9.0	8.0	6.8
-57.5°	13.4	13.0	12.5	12.1	11.6	11.1	10.4	9.4	8.4	7.4	6.4
-60°	12.8	12.4	12.0	11.6	11.1	10.5	9.6	8.7	7.7	6.8	5.9
-62.5°	12.2	11.8	11.4	11.0	10.4	9.6	8.7	7.9	7.0	6.2	5.4
-65°	11.5	11.2	10.8	10.1	9.4	8.7	7.9	7.1	6.4	5.6	4.8
-67.5°	10.9	10.3	9.7	9.0	8.4	7.7	7.0	6.4	5.7	5.0	4.3
-70°	9.6	9.1	8.5	8.0	7.4	6.8	6.2	5.6	5.0	4.4	3.7
-72.5°	8.3	7.8	7.3	6.8	6.4	5.9	5.4	4.8	4.3	3.7	3.2
-75°	7.0	6.6	6.2	5.8	5.4	4.9	4.5	4.0	3.5	3.1	2.6
-77.5°	5.7	5.4	5.1	4.7	4.3	4.0	3.6	3.2	2.8	2.4	2.0
-80°	4.4	4.1	3.9	3.6	3.3	3.0	2.7	2.4	2.0	1.7	1.4
-82.5°	3.0	2.9	2.6	2.4	2.2	2.0	1.8	1.5	1.3	1.0	0.9
-85°	1.7	1.6	1.4	1.3	1.1	1.0	0.9	0.8	0.8	0.7	0.6
-87.5°	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4	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]-LEDCW-W-WT-LC1-UNV

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°	0.3	0.2	0.2	0.1	0.1	0.0	0.0
85°	0.5	0.4	0.3	0.3	0.2	0.1	0.0
82.5°	0.8	0.6	0.5	0.4	0.3	0.1	0.0
80°	1.1	0.9	0.7	0.5	0.3	0.2	0.0
77.5°	1.6	1.1	0.9	0.6	0.4	0.2	0.0
75°	2.1	1.6	1.1	0.8	0.5	0.3	0.0
72.5°	2.6	2.0	1.4	0.9	0.6	0.3	0.0
70°	3.1	2.4	1.7	1.0	0.7	0.3	0.0
67.5°	3.5	2.8	2.0	1.3	0.8	0.4	0.0
65°	4.0	3.2	2.4	1.5	0.8	0.4	0.0
62.5°	4.5	3.6	2.7	1.8	0.9	0.5	0.0
60°	4.9	4.0	3.0	2.0	1.0	0.5	0.0
57.5°	5.4	4.3	3.3	2.2	1.1	0.5	0.0
55°	5.8	4.7	3.6	2.4	1.3	0.6	0.0
52.5°	6.2	5.1	3.9	2.6	1.4	0.6	0.0
50°	6.6	5.4	4.1	2.9	1.6	0.6	0.0
47.5°	7.0	5.7	4.4	3.0	1.7	0.7	0.0
45°	7.3	6.0	4.6	3.2	1.8	0.7	0.0
42.5°	7.7	6.3	4.9	3.4	1.9	0.7	0.0
40°	8.0	6.6	5.1	3.6	2.1	0.8	0.0
37.5°	8.4	6.8	5.3	3.8	2.2	0.8	0.0
35°	8.7	7.1	5.5	3.9	2.3	0.8	0.0
32.5°	9.0	7.3	5.7	4.1	2.4	0.8	0.0
30°	9.3	7.5	5.9	4.2	2.5	0.9	0.0
27.5°	9.5	7.8	6.0	4.3	2.5	0.9	0.0
25°	9.8	8.0	6.2	4.4	2.6	0.9	0.0
22.5°	10.0	8.1	6.3	4.5	2.7	0.9	0.0
20°	10.2	8.3	6.4	4.6	2.8	0.9	0.0
17.5°	10.3	8.4	6.5	4.7	2.8	1.0	0.0
15°	10.5	8.6	6.6	4.8	2.9	1.0	0.0
12.5°	10.6	8.7	6.7	4.9	2.9	1.0	0.0
10°	10.7	8.7	6.8	4.9	2.9	1.0	0.0
7.5°	10.8	8.8	6.8	4.9	3.0	1.0	0.0
5°	10.9	8.9	6.9	5.0	3.0	1.0	0.0
2.5°	10.9	8.9	6.9	5.0	3.0	1.0	0.0
0°	10.9	8.9	6.9	5.0	3.0	1.0	0.0
-2.5°	10.9	8.9	6.9	5.0	3.0	1.0	0.0
-5°	10.9	8.9	6.9	5.0	3.0	1.0	0.0
-7.5°	10.8	8.8	6.8	4.9	3.0	1.0	0.0
-10°	10.7	8.7	6.8	4.9	2.9	1.0	0.0
-12.5°	10.6	8.7	6.7	4.9	2.9	1.0	0.0
-15°	10.5	8.6	6.6	4.8	2.9	1.0	0.0
-17.5°	10.3	8.4	6.5	4.7	2.8	1.0	0.0
-20°	10.2	8.3	6.4	4.6	2.8	0.9	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	10.0	8.1	6.3	4.5	2.7	0.9	0.0
-25°	9.8	8.0	6.2	4.4	2.6	0.9	0.0
-27.5°	9.5	7.8	6.0	4.3	2.5	0.9	0.0
-30°	9.3	7.5	5.9	4.2	2.5	0.9	0.0
-32.5°	9.0	7.3	5.7	4.1	2.4	0.8	0.0
-35°	8.7	7.1	5.5	3.9	2.3	0.8	0.0
-37.5°	8.4	6.8	5.3	3.8	2.2	0.8	0.0
-40°	8.0	6.6	5.1	3.6	2.1	0.8	0.0
-42.5°	7.7	6.3	4.9	3.4	1.9	0.7	0.0
-45°	7.3	6.0	4.6	3.2	1.8	0.7	0.0
-47.5°	7.0	5.7	4.4	3.0	1.7	0.7	0.0
-50°	6.6	5.4	4.1	2.9	1.6	0.6	0.0
-52.5°	6.2	5.1	3.9	2.6	1.4	0.6	0.0
-55°	5.8	4.7	3.6	2.4	1.3	0.6	0.0
-57.5°	5.4	4.3	3.3	2.2	1.1	0.5	0.0
-60°	4.9	4.0	3.0	2.0	1.0	0.5	0.0
-62.5°	4.5	3.6	2.7	1.8	0.9	0.5	0.0
-65°	4.0	3.2	2.4	1.5	0.8	0.4	0.0
-67.5°	3.5	2.8	2.0	1.3	0.8	0.4	0.0
-70°	3.1	2.4	1.7	1.0	0.7	0.3	0.0
-72.5°	2.6	2.0	1.4	0.9	0.6	0.3	0.0
-75°	2.1	1.6	1.1	0.8	0.5	0.3	0.0
-77.5°	1.6	1.1	0.9	0.6	0.4	0.2	0.0
-80°	1.1	0.9	0.7	0.5	0.3	0.2	0.0
-82.5°	0.8	0.6	0.5	0.4	0.3	0.1	0.0
-85°	0.5	0.4	0.3	0.3	0.2	0.1	0.0
-87.5°	0.3	0.2	0.2	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)