

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: P29545 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 3/3/2020

Test Information

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

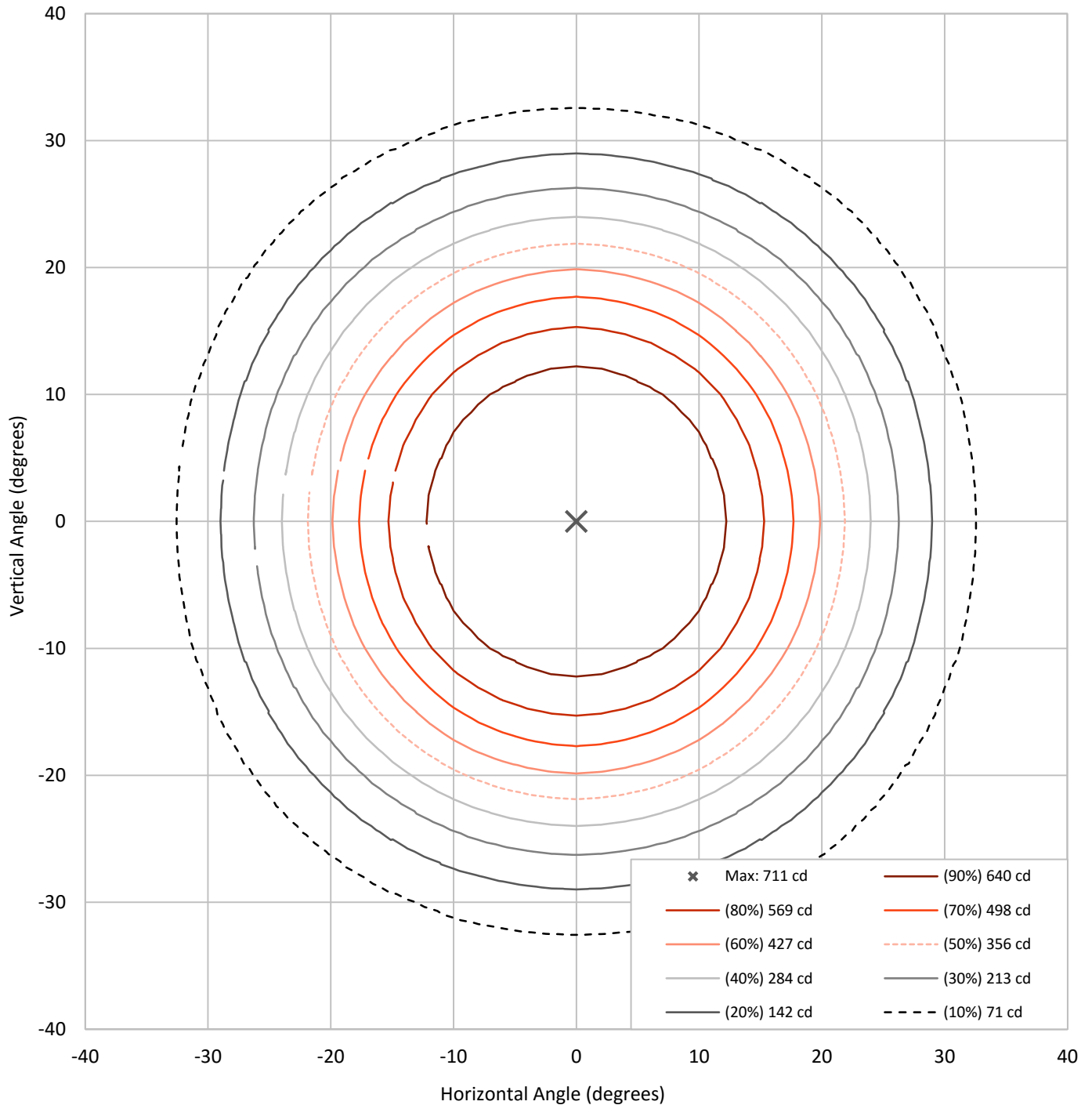
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	443.7 lumens	Max Intensity:	711 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	31.2 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:	255 lumens	Field Lumens:	351 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





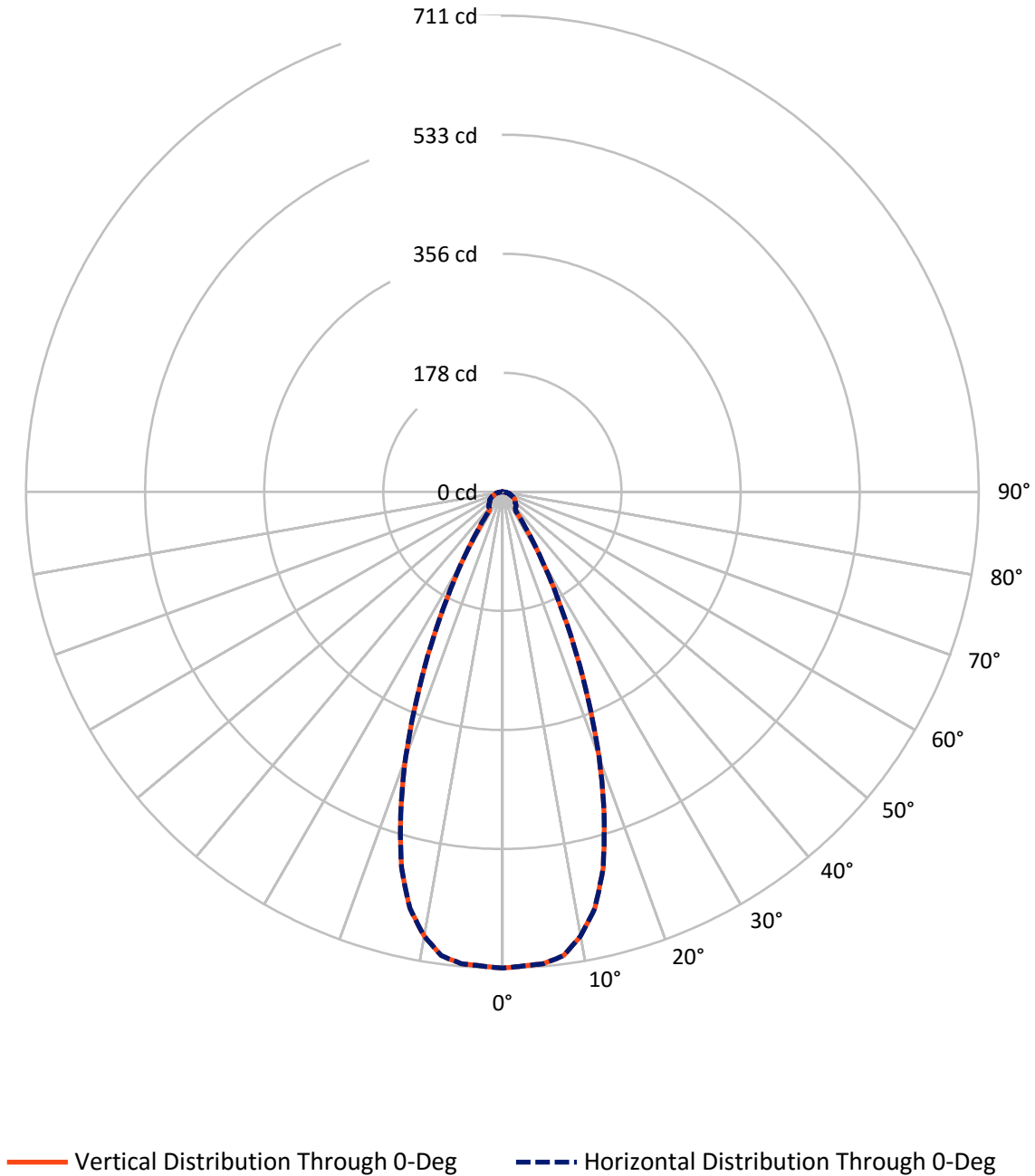
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Lumen Table

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	0.9	0.9	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	4.4	7.2	7.2	4.4	1.5	0.7	0.5	0.4	0.2	0.2			
20		0.2	0.4	0.6	0.9	4.1	11.1	16.3	16.3	11.1	4.1	0.9	0.6	0.4	0.2				
10	0.2	0.2	0.4	0.6	1.3	6.6	15.9	20.8	20.8	15.9	6.6	1.3	0.6	0.4	0.2	0.2			
0		0.2	0.4	0.6	1.3	6.6	15.9	20.8	20.8	15.9	6.6	1.3	0.6	0.4	0.2				
-10	0.2	0.2	0.4	0.6	1.3	6.6	15.9	20.8	20.8	15.9	6.6	1.3	0.6	0.4	0.2	0.2			
-20		0.2	0.4	0.6	0.9	4.1	11.1	16.3	16.3	11.1	4.1	0.9	0.6	0.4	0.2				
-30	0.1	0.2	0.3	0.5	0.7	1.5	4.4	7.2	7.2	4.4	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	0.9	0.9	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

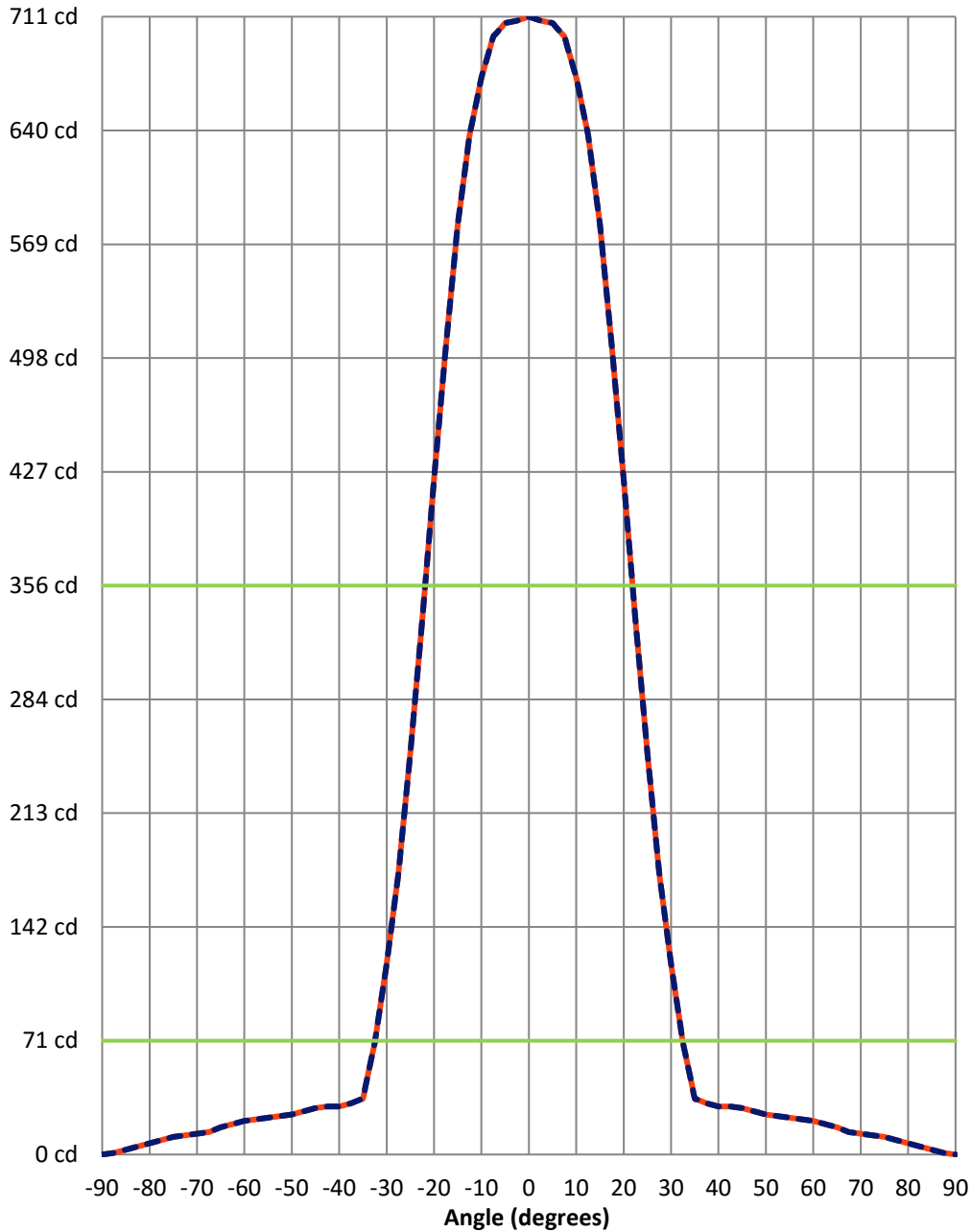
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CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LEDCB-W-WT-LC1-UNV

Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 43.8°
 V Angle: 43.8°
 Lumens: 255
 Efficiency: 57.5%

Field:
 H Angle: 64.9°
 V Angle: 64.9°
 Lumens: 351
 Efficiency: 79.1%

Spill:
 Lumens: 92.6
 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	7.2
62.5°	0.0	0.5	0.9	1.8	2.7	3.6	4.5	5.4	6.3	7.1	8.0
60°	0.0	0.5	1.0	2.0	3.0	4.0	4.9	5.9	6.9	7.8	8.8
57.5°	0.0	0.5	1.1	2.2	3.3	4.3	5.4	6.4	7.5	8.5	9.5
55°	0.0	0.6	1.3	2.4	3.6	4.7	5.8	6.9	8.1	9.1	10.2
52.5°	0.0	0.6	1.4	2.6	3.9	5.1	6.3	7.4	8.6	9.8	10.9
50°	0.0	0.6	1.6	2.9	4.1	5.4	6.7	7.9	9.2	10.4	11.3
47.5°	0.0	0.7	1.7	3.0	4.4	5.7	7.1	8.4	9.7	11.0	11.6
45°	0.0	0.7	1.8	3.2	4.6	6.0	7.4	8.8	10.2	11.3	12.0
42.5°	0.0	0.7	1.9	3.4	4.9	6.3	7.8	9.2	10.7	11.6	12.3
40°	0.0	0.8	2.1	3.6	5.1	6.6	8.1	9.7	11.1	11.8	12.6
37.5°	0.0	0.8	2.2	3.8	5.3	6.9	8.5	10.0	11.3	12.1	12.8
35°	0.0	0.8	2.3	3.9	5.5	7.2	8.8	10.4	11.5	12.3	13.1
32.5°	0.0	0.8	2.4	4.1	5.7	7.4	9.1	10.8	11.7	12.5	13.4
30°	0.0	0.9	2.5	4.2	5.9	7.6	9.4	11.0	11.9	12.7	13.6
27.5°	0.0	0.9	2.5	4.3	6.1	7.9	9.6	11.2	12.1	12.9	13.8
25°	0.0	0.9	2.6	4.4	6.2	8.1	9.9	11.3	12.2	13.1	14.0
22.5°	0.0	0.9	2.7	4.5	6.4	8.2	10.1	11.5	12.4	13.3	14.6
20°	0.0	0.9	2.8	4.6	6.5	8.4	10.3	11.6	12.5	13.4	15.1
17.5°	0.0	1.0	2.8	4.7	6.6	8.5	10.4	11.7	12.6	13.6	15.5
15°	0.0	1.0	2.9	4.8	6.7	8.7	10.6	11.8	12.7	13.7	15.9
12.5°	0.0	1.0	2.9	4.9	6.8	8.8	10.7	11.8	12.8	13.8	16.2
10°	0.0	1.0	2.9	4.9	6.9	8.8	10.8	11.9	12.9	13.9	16.5
7.5°	0.0	1.0	3.0	4.9	6.9	8.9	10.9	11.9	12.9	13.9	16.7
5°	0.0	1.0	3.0	5.0	7.0	9.0	11.0	12.0	13.0	14.0	16.9
2.5°	0.0	1.0	3.0	5.0	7.0	9.0	11.0	12.0	13.0	14.0	17.0
0°	0.0	1.0	3.0	5.0	7.0	9.0	11.0	12.0	13.0	14.0	17.0
-2.5°	0.0	1.0	3.0	5.0	7.0	9.0	11.0	12.0	13.0	14.0	17.0
-5°	0.0	1.0	3.0	5.0	7.0	9.0	11.0	12.0	13.0	14.0	16.9
-7.5°	0.0	1.0	3.0	4.9	6.9	8.9	10.9	11.9	12.9	13.9	16.7
-10°	0.0	1.0	2.9	4.9	6.9	8.8	10.8	11.9	12.9	13.9	16.5
-12.5°	0.0	1.0	2.9	4.9	6.8	8.8	10.7	11.8	12.8	13.8	16.2
-15°	0.0	1.0	2.9	4.8	6.7	8.7	10.6	11.8	12.7	13.7	15.9
-17.5°	0.0	1.0	2.8	4.7	6.6	8.5	10.4	11.7	12.6	13.6	15.5
-20°	0.0	0.9	2.8	4.6	6.5	8.4	10.3	11.6	12.5	13.4	15.1



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LEDCB-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	6.4	8.2	10.1	11.5	12.4	13.3	14.6
-25°	0.0	0.9	2.6	4.4	6.2	8.1	9.9	11.3	12.2	13.1	14.0
-27.5°	0.0	0.9	2.5	4.3	6.1	7.9	9.6	11.2	12.1	12.9	13.8
-30°	0.0	0.9	2.5	4.2	5.9	7.6	9.4	11.0	11.9	12.7	13.6
-32.5°	0.0	0.8	2.4	4.1	5.7	7.4	9.1	10.8	11.7	12.5	13.4
-35°	0.0	0.8	2.3	3.9	5.5	7.2	8.8	10.4	11.5	12.3	13.1
-37.5°	0.0	0.8	2.2	3.8	5.3	6.9	8.5	10.0	11.3	12.1	12.8
-40°	0.0	0.8	2.1	3.6	5.1	6.6	8.1	9.7	11.1	11.8	12.6
-42.5°	0.0	0.7	1.9	3.4	4.9	6.3	7.8	9.2	10.7	11.6	12.3
-45°	0.0	0.7	1.8	3.2	4.6	6.0	7.4	8.8	10.2	11.3	12.0
-47.5°	0.0	0.7	1.7	3.0	4.4	5.7	7.1	8.4	9.7	11.0	11.6
-50°	0.0	0.6	1.6	2.9	4.1	5.4	6.7	7.9	9.2	10.4	11.3
-52.5°	0.0	0.6	1.4	2.6	3.9	5.1	6.3	7.4	8.6	9.8	10.9
-55°	0.0	0.6	1.3	2.4	3.6	4.7	5.8	6.9	8.1	9.1	10.2
-57.5°	0.0	0.5	1.1	2.2	3.3	4.3	5.4	6.4	7.5	8.5	9.5
-60°	0.0	0.5	1.0	2.0	3.0	4.0	4.9	5.9	6.9	7.8	8.8
-62.5°	0.0	0.5	0.9	1.8	2.7	3.6	4.5	5.4	6.3	7.1	8.0
-65°	0.0	0.4	0.8	1.5	2.4	3.2	4.0	4.8	5.6	6.4	7.2
-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	6.9
75°	4.5	4.9	5.4	5.8	6.3	6.7	7.1	7.4	7.8	8.1	8.5
72.5°	5.4	5.9	6.4	6.9	7.4	7.9	8.4	8.8	9.2	9.7	10.0
70°	6.3	6.9	7.5	8.1	8.6	9.2	9.7	10.2	10.7	11.1	11.3
67.5°	7.1	7.8	8.5	9.1	9.8	10.4	11.0	11.3	11.6	11.8	12.1
65°	8.0	8.8	9.5	10.2	10.9	11.3	11.6	12.0	12.3	12.6	12.8
62.5°	8.8	9.7	10.5	11.1	11.5	11.9	12.3	12.6	13.0	13.3	13.6
60°	9.7	10.6	11.2	11.7	12.1	12.5	12.9	13.3	13.7	14.0	15.0
57.5°	10.5	11.2	11.7	12.2	12.6	13.1	13.5	13.9	15.0	16.2	17.2
55°	11.1	11.7	12.2	12.7	13.2	13.7	14.4	15.7	17.0	17.9	18.7
52.5°	11.5	12.1	12.6	13.2	13.7	14.6	16.1	17.4	18.3	19.2	20.1
50°	11.9	12.5	13.1	13.7	14.6	16.3	17.6	18.6	19.6	20.6	21.3
47.5°	12.3	12.9	13.5	14.4	16.1	17.6	18.7	19.8	20.9	21.5	22.0
45°	12.6	13.3	13.9	15.7	17.4	18.6	19.8	21.0	21.6	22.1	22.6
42.5°	13.0	13.7	15.0	17.0	18.3	19.6	20.9	21.6	22.2	22.8	23.3
40°	13.3	14.0	16.2	17.9	19.2	20.6	21.5	22.1	22.8	23.4	24.0
37.5°	13.6	15.0	17.2	18.7	20.1	21.3	22.0	22.6	23.3	24.0	24.6
35°	13.9	16.0	17.9	19.4	20.9	21.7	22.4	23.2	23.9	24.5	25.4
32.5°	14.5	16.9	18.6	20.1	21.4	22.1	22.9	23.6	24.4	25.2	26.6
30°	15.3	17.5	19.2	20.8	21.7	22.5	23.3	24.1	24.9	26.2	27.7
27.5°	16.0	18.1	19.8	21.2	22.1	22.9	23.7	24.5	25.7	27.2	28.8
25°	16.7	18.6	20.3	21.5	22.4	23.3	24.1	24.9	26.5	28.2	29.4
22.5°	17.2	19.0	20.8	21.8	22.7	23.6	24.4	25.6	27.3	29.0	29.9
20°	17.6	19.4	21.1	22.0	23.0	23.9	24.8	26.3	28.1	29.4	30.0
17.5°	17.9	19.8	21.3	22.3	23.2	24.1	25.1	26.9	28.7	29.8	30.0
15°	18.2	20.1	21.5	22.5	23.4	24.4	25.6	27.5	29.2	30.0	30.0
12.5°	18.4	20.4	21.7	22.6	23.6	24.5	26.0	27.9	29.4	30.0	30.6
10°	18.6	20.6	21.8	22.8	23.7	24.7	26.4	28.3	29.6	30.0	31.1
7.5°	18.8	20.8	21.9	22.9	23.8	24.8	26.6	28.6	29.8	30.0	31.5
5°	18.9	20.9	21.9	22.9	23.9	24.9	26.8	28.8	29.9	30.0	31.8
2.5°	19.0	21.0	22.0	23.0	24.0	25.0	27.0	29.0	30.0	30.0	31.9
0°	19.0	21.0	22.0	23.0	24.0	25.0	27.0	29.0	30.0	30.0	32.0
-2.5°	19.0	21.0	22.0	23.0	24.0	25.0	27.0	29.0	30.0	30.0	31.9
-5°	18.9	20.9	21.9	22.9	23.9	24.9	26.8	28.8	29.9	30.0	31.8
-7.5°	18.8	20.8	21.9	22.9	23.8	24.8	26.6	28.6	29.8	30.0	31.5
-10°	18.6	20.6	21.8	22.8	23.7	24.7	26.4	28.3	29.6	30.0	31.1
-12.5°	18.4	20.4	21.7	22.6	23.6	24.5	26.0	27.9	29.4	30.0	30.6
-15°	18.2	20.1	21.5	22.5	23.4	24.4	25.6	27.5	29.2	30.0	30.0
-17.5°	17.9	19.8	21.3	22.3	23.2	24.1	25.1	26.9	28.7	29.8	30.0
-20°	17.6	19.4	21.1	22.0	23.0	23.9	24.8	26.3	28.1	29.4	30.0



REPORT NUMBER: P29545 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LEDCB-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°	17.2	19.0	20.8	21.8	22.7	23.6	24.4	25.6	27.3	29.0	29.9
-25°	16.7	18.6	20.3	21.5	22.4	23.3	24.1	24.9	26.5	28.2	29.4
-27.5°	16.0	18.1	19.8	21.2	22.1	22.9	23.7	24.5	25.7	27.2	28.8
-30°	15.3	17.5	19.2	20.8	21.7	22.5	23.3	24.1	24.9	26.2	27.7
-32.5°	14.5	16.9	18.6	20.1	21.4	22.1	22.9	23.6	24.4	25.2	26.6
-35°	13.9	16.0	17.9	19.4	20.9	21.7	22.4	23.2	23.9	24.5	25.4
-37.5°	13.6	15.0	17.2	18.7	20.1	21.3	22.0	22.6	23.3	24.0	24.6
-40°	13.3	14.0	16.2	17.9	19.2	20.6	21.5	22.1	22.8	23.4	24.0
-42.5°	13.0	13.7	15.0	17.0	18.3	19.6	20.9	21.6	22.2	22.8	23.3
-45°	12.6	13.3	13.9	15.7	17.4	18.6	19.8	21.0	21.6	22.1	22.6
-47.5°	12.3	12.9	13.5	14.4	16.1	17.6	18.7	19.8	20.9	21.5	22.0
-50°	11.9	12.5	13.1	13.7	14.6	16.3	17.6	18.6	19.6	20.6	21.3
-52.5°	11.5	12.1	12.6	13.2	13.7	14.6	16.1	17.4	18.3	19.2	20.1
-55°	11.1	11.7	12.2	12.7	13.2	13.7	14.4	15.7	17.0	17.9	18.7
-57.5°	10.5	11.2	11.7	12.2	12.6	13.1	13.5	13.9	15.0	16.2	17.2
-60°	9.7	10.6	11.2	11.7	12.1	12.5	12.9	13.3	13.7	14.0	15.0
-62.5°	8.8	9.7	10.5	11.1	11.5	11.9	12.3	12.6	13.0	13.3	13.6
-65°	8.0	8.8	9.5	10.2	10.9	11.3	11.6	12.0	12.3	12.6	12.8
-67.5°	7.1	7.8	8.5	9.1	9.8	10.4	11.0	11.3	11.6	11.8	12.1
-70°	6.3	6.9	7.5	8.1	8.6	9.2	9.7	10.2	10.7	11.1	11.3
-72.5°	5.4	5.9	6.4	6.9	7.4	7.9	8.4	8.8	9.2	9.7	10.0
-75°	4.5	4.9	5.4	5.8	6.3	6.7	7.1	7.4	7.8	8.1	8.5
-77.5°	3.6	4.0	4.3	4.7	5.1	5.4	5.7	6.0	6.3	6.6	6.9
-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]-LEDCB-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	6.1	6.2	6.4	6.5	6.6	6.7	6.8	6.9
77.5°	7.2	7.4	7.6	7.9	8.1	8.2	8.4	8.5	8.7	8.8	8.8
75°	8.8	9.1	9.4	9.6	9.9	10.1	10.3	10.4	10.6	10.7	10.8
72.5°	10.4	10.8	11.0	11.2	11.3	11.5	11.6	11.7	11.8	11.8	11.9
70°	11.5	11.7	11.9	12.1	12.2	12.4	12.5	12.6	12.7	12.8	12.9
67.5°	12.3	12.5	12.7	12.9	13.1	13.3	13.4	13.6	13.7	13.8	13.9
65°	13.1	13.4	13.6	13.8	14.0	14.6	15.1	15.5	15.9	16.2	16.5
62.5°	13.9	14.5	15.3	16.0	16.7	17.2	17.6	17.9	18.2	18.4	18.6
60°	16.0	16.9	17.5	18.1	18.6	19.0	19.4	19.8	20.1	20.4	20.6
57.5°	17.9	18.6	19.2	19.8	20.3	20.8	21.1	21.3	21.5	21.7	21.8
55°	19.4	20.1	20.8	21.2	21.5	21.8	22.0	22.3	22.5	22.6	22.8
52.5°	20.9	21.4	21.7	22.1	22.4	22.7	23.0	23.2	23.4	23.6	23.7
50°	21.7	22.1	22.5	22.9	23.3	23.6	23.9	24.1	24.4	24.5	24.7
47.5°	22.4	22.9	23.3	23.7	24.1	24.4	24.8	25.1	25.6	26.0	26.4
45°	23.2	23.6	24.1	24.5	24.9	25.6	26.3	26.9	27.5	27.9	28.3
42.5°	23.9	24.4	24.9	25.7	26.5	27.3	28.1	28.7	29.2	29.4	29.6
40°	24.5	25.2	26.2	27.2	28.2	29.0	29.4	29.8	30.0	30.0	30.0
37.5°	25.4	26.6	27.7	28.8	29.4	29.9	30.0	30.0	30.0	30.6	31.1
35°	26.7	28.0	29.1	29.6	30.0	30.0	30.3	31.1	31.8	32.7	33.5
32.5°	28.0	29.1	29.8	30.0	30.0	30.9	31.9	33.3	34.5	41.0	51.2
30°	29.1	29.8	30.0	30.2	31.4	32.8	34.4	44.6	59.8	74.4	90.1
27.5°	29.6	30.0	30.2	31.5	33.2	35.5	55.5	75.4	98.6	118.9	137.3
25°	30.0	30.0	31.4	33.2	38.1	61.0	87.5	115.3	142.2	169.0	194.8
22.5°	30.0	30.9	32.8	35.5	61.0	91.6	124.2	157.9	194.3	232.4	266.0
20°	30.3	31.9	34.4	55.5	87.5	124.2	163.2	208.9	256.8	300.8	341.6
17.5°	31.1	33.3	44.6	75.4	115.3	157.9	208.9	264.9	319.7	372.3	419.2
15°	31.8	34.5	59.8	98.6	142.2	194.3	256.8	319.7	382.8	441.3	490.2
12.5°	32.7	41.0	74.4	118.9	169.0	232.4	300.8	372.3	441.3	501.6	553.2
10°	33.5	51.2	90.1	137.3	194.8	266.0	341.6	419.2	490.2	553.2	605.1
7.5°	34.2	59.3	102.6	153.2	218.1	293.7	375.3	456.2	529.3	593.2	637.4
5°	34.6	65.2	111.6	165.2	236.2	315.3	400.7	483.1	558.0	619.0	657.6
2.5°	34.9	68.8	117.2	173.3	247.3	328.9	416.6	499.5	575.1	632.6	669.0
0°	35.0	70.0	119.0	176.0	251.0	333.5	422.0	505.0	581.0	637.0	673.0
-2.5°	34.9	68.8	117.2	173.3	247.3	328.9	416.6	499.5	575.1	632.6	669.0
-5°	34.6	65.2	111.6	165.2	236.2	315.3	400.7	483.1	558.0	619.0	657.6
-7.5°	34.2	59.3	102.6	153.2	218.1	293.7	375.3	456.2	529.3	593.2	637.4
-10°	33.5	51.2	90.1	137.3	194.8	266.0	341.6	419.2	490.2	553.2	605.1
-12.5°	32.7	41.0	74.4	118.9	169.0	232.4	300.8	372.3	441.3	501.6	553.2
-15°	31.8	34.5	59.8	98.6	142.2	194.3	256.8	319.7	382.8	441.3	490.2
-17.5°	31.1	33.3	44.6	75.4	115.3	157.9	208.9	264.9	319.7	372.3	419.2
-20°	30.3	31.9	34.4	55.5	87.5	124.2	163.2	208.9	256.8	300.8	341.6



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

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	30.0	30.9	32.8	35.5	61.0	91.6	124.2	157.9	194.3	232.4	266.0
-25°	30.0	30.0	31.4	33.2	38.1	61.0	87.5	115.3	142.2	169.0	194.8
-27.5°	29.6	30.0	30.2	31.5	33.2	35.5	55.5	75.4	98.6	118.9	137.3
-30°	29.1	29.8	30.0	30.2	31.4	32.8	34.4	44.6	59.8	74.4	90.1
-32.5°	28.0	29.1	29.8	30.0	30.0	30.9	31.9	33.3	34.5	41.0	51.2
-35°	26.7	28.0	29.1	29.6	30.0	30.0	30.3	31.1	31.8	32.7	33.5
-37.5°	25.4	26.6	27.7	28.8	29.4	29.9	30.0	30.0	30.0	30.6	31.1
-40°	24.5	25.2	26.2	27.2	28.2	29.0	29.4	29.8	30.0	30.0	30.0
-42.5°	23.9	24.4	24.9	25.7	26.5	27.3	28.1	28.7	29.2	29.4	29.6
-45°	23.2	23.6	24.1	24.5	24.9	25.6	26.3	26.9	27.5	27.9	28.3
-47.5°	22.4	22.9	23.3	23.7	24.1	24.4	24.8	25.1	25.6	26.0	26.4
-50°	21.7	22.1	22.5	22.9	23.3	23.6	23.9	24.1	24.4	24.5	24.7
-52.5°	20.9	21.4	21.7	22.1	22.4	22.7	23.0	23.2	23.4	23.6	23.7
-55°	19.4	20.1	20.8	21.2	21.5	21.8	22.0	22.3	22.5	22.6	22.8
-57.5°	17.9	18.6	19.2	19.8	20.3	20.8	21.1	21.3	21.5	21.7	21.8
-60°	16.0	16.9	17.5	18.1	18.6	19.0	19.4	19.8	20.1	20.4	20.6
-62.5°	13.9	14.5	15.3	16.0	16.7	17.2	17.6	17.9	18.2	18.4	18.6
-65°	13.1	13.4	13.6	13.8	14.0	14.6	15.1	15.5	15.9	16.2	16.5
-67.5°	12.3	12.5	12.7	12.9	13.1	13.3	13.4	13.6	13.7	13.8	13.9
-70°	11.5	11.7	11.9	12.1	12.2	12.4	12.5	12.6	12.7	12.8	12.9
-72.5°	10.4	10.8	11.0	11.2	11.3	11.5	11.6	11.7	11.8	11.8	11.9
-75°	8.8	9.1	9.4	9.6	9.9	10.1	10.3	10.4	10.6	10.7	10.8
-77.5°	7.2	7.4	7.6	7.9	8.1	8.2	8.4	8.5	8.7	8.8	8.8
-80°	5.5	5.7	5.9	6.1	6.2	6.4	6.5	6.6	6.7	6.8	6.9
-82.5°	3.9	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	4.9
-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



REPORT NUMBER: P29545 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LEDCB-W-WT-LC1-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°	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°	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.8	6.7	6.6
77.5°	8.9	9.0	9.0	9.0	9.0	9.0	8.9	8.8	8.8	8.7	8.5
75°	10.9	11.0	11.0	11.0	11.0	11.0	10.9	10.8	10.7	10.6	10.4
72.5°	11.9	12.0	12.0	12.0	12.0	12.0	11.9	11.9	11.8	11.8	11.7
70°	12.9	13.0	13.0	13.0	13.0	13.0	12.9	12.9	12.8	12.7	12.6
67.5°	13.9	14.0	14.0	14.0	14.0	14.0	13.9	13.9	13.8	13.7	13.6
65°	16.7	16.9	17.0	17.0	17.0	16.9	16.7	16.5	16.2	15.9	15.5
62.5°	18.8	18.9	19.0	19.0	19.0	18.9	18.8	18.6	18.4	18.2	17.9
60°	20.8	20.9	21.0	21.0	21.0	20.9	20.8	20.6	20.4	20.1	19.8
57.5°	21.9	21.9	22.0	22.0	22.0	21.9	21.9	21.8	21.7	21.5	21.3
55°	22.9	22.9	23.0	23.0	23.0	22.9	22.9	22.8	22.6	22.5	22.3
52.5°	23.8	23.9	24.0	24.0	24.0	23.9	23.8	23.7	23.6	23.4	23.2
50°	24.8	24.9	25.0	25.0	25.0	24.9	24.8	24.7	24.5	24.4	24.1
47.5°	26.6	26.8	27.0	27.0	27.0	26.8	26.6	26.4	26.0	25.6	25.1
45°	28.6	28.8	29.0	29.0	29.0	28.8	28.6	28.3	27.9	27.5	26.9
42.5°	29.8	29.9	30.0	30.0	30.0	29.9	29.8	29.6	29.4	29.2	28.7
40°	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	29.8
37.5°	31.5	31.8	31.9	32.0	31.9	31.8	31.5	31.1	30.6	30.0	30.0
35°	34.2	34.6	34.9	35.0	34.9	34.6	34.2	33.5	32.7	31.8	31.1
32.5°	59.3	65.2	68.8	70.0	68.8	65.2	59.3	51.2	41.0	34.5	33.3
30°	102.6	111.6	117.2	119.0	117.2	111.6	102.6	90.1	74.4	59.8	44.6
27.5°	153.2	165.2	173.3	176.0	173.3	165.2	153.2	137.3	118.9	98.6	75.4
25°	218.1	236.2	247.3	251.0	247.3	236.2	218.1	194.8	169.0	142.2	115.3
22.5°	293.7	315.3	328.9	333.5	328.9	315.3	293.7	266.0	232.4	194.3	157.9
20°	375.3	400.7	416.6	422.0	416.6	400.7	375.3	341.6	300.8	256.8	208.9
17.5°	456.2	483.1	499.5	505.0	499.5	483.1	456.2	419.2	372.3	319.7	264.9
15°	529.3	558.0	575.1	581.0	575.1	558.0	529.3	490.2	441.3	382.8	319.7
12.5°	593.2	619.0	632.6	637.0	632.6	619.0	593.2	553.2	501.6	441.3	372.3
10°	637.4	657.6	669.0	673.0	669.0	657.6	637.4	605.1	553.2	490.2	419.2
7.5°	665.3	684.9	695.7	698.5	695.7	684.9	665.3	637.4	593.2	529.3	456.2
5°	684.9	701.5	705.8	707.0	705.8	701.5	684.9	657.6	619.0	558.0	483.1
2.5°	695.7	705.8	708.0	708.5	708.0	705.8	695.7	669.0	632.6	575.1	499.5
0°	698.5	707.0	708.5	711.0	708.5	707.0	698.5	673.0	637.0	581.0	505.0
-2.5°	695.7	705.8	708.0	708.5	708.0	705.8	695.7	669.0	632.6	575.1	499.5
-5°	684.9	701.5	705.8	707.0	705.8	701.5	684.9	657.6	619.0	558.0	483.1
-7.5°	665.3	684.9	695.7	698.5	695.7	684.9	665.3	637.4	593.2	529.3	456.2
-10°	637.4	657.6	669.0	673.0	669.0	657.6	637.4	605.1	553.2	490.2	419.2
-12.5°	593.2	619.0	632.6	637.0	632.6	619.0	593.2	553.2	501.6	441.3	372.3
-15°	529.3	558.0	575.1	581.0	575.1	558.0	529.3	490.2	441.3	382.8	319.7
-17.5°	456.2	483.1	499.5	505.0	499.5	483.1	456.2	419.2	372.3	319.7	264.9
-20°	375.3	400.7	416.6	422.0	416.6	400.7	375.3	341.6	300.8	256.8	208.9



REPORT NUMBER: P29545 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LEDCB-W-WT-LC1-UNV

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	293.7	315.3	328.9	333.5	328.9	315.3	293.7	266.0	232.4	194.3	157.9
-25°	218.1	236.2	247.3	251.0	247.3	236.2	218.1	194.8	169.0	142.2	115.3
-27.5°	153.2	165.2	173.3	176.0	173.3	165.2	153.2	137.3	118.9	98.6	75.4
-30°	102.6	111.6	117.2	119.0	117.2	111.6	102.6	90.1	74.4	59.8	44.6
-32.5°	59.3	65.2	68.8	70.0	68.8	65.2	59.3	51.2	41.0	34.5	33.3
-35°	34.2	34.6	34.9	35.0	34.9	34.6	34.2	33.5	32.7	31.8	31.1
-37.5°	31.5	31.8	31.9	32.0	31.9	31.8	31.5	31.1	30.6	30.0	30.0
-40°	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	29.8
-42.5°	29.8	29.9	30.0	30.0	30.0	29.9	29.8	29.6	29.4	29.2	28.7
-45°	28.6	28.8	29.0	29.0	29.0	28.8	28.6	28.3	27.9	27.5	26.9
-47.5°	26.6	26.8	27.0	27.0	27.0	26.8	26.6	26.4	26.0	25.6	25.1
-50°	24.8	24.9	25.0	25.0	25.0	24.9	24.8	24.7	24.5	24.4	24.1
-52.5°	23.8	23.9	24.0	24.0	24.0	23.9	23.8	23.7	23.6	23.4	23.2
-55°	22.9	22.9	23.0	23.0	23.0	22.9	22.9	22.8	22.6	22.5	22.3
-57.5°	21.9	21.9	22.0	22.0	22.0	21.9	21.9	21.8	21.7	21.5	21.3
-60°	20.8	20.9	21.0	21.0	21.0	20.9	20.8	20.6	20.4	20.1	19.8
-62.5°	18.8	18.9	19.0	19.0	19.0	18.9	18.8	18.6	18.4	18.2	17.9
-65°	16.7	16.9	17.0	17.0	17.0	16.9	16.7	16.5	16.2	15.9	15.5
-67.5°	13.9	14.0	14.0	14.0	14.0	13.9	13.9	13.9	13.8	13.7	13.6
-70°	12.9	13.0	13.0	13.0	13.0	13.0	12.9	12.9	12.8	12.7	12.6
-72.5°	11.9	12.0	12.0	12.0	12.0	12.0	11.9	11.9	11.8	11.8	11.7
-75°	10.9	11.0	11.0	11.0	11.0	11.0	10.9	10.8	10.7	10.6	10.4
-77.5°	8.9	9.0	9.0	9.0	9.0	9.0	8.9	8.8	8.8	8.7	8.5
-80°	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.8	6.7	6.6
-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



REPORT NUMBER: P29545 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LEDCB-W-WT-LC1-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°	0.9	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°	6.5	6.4	6.2	6.1	5.9	5.7	5.5	5.3	5.1	4.9	4.6
77.5°	8.4	8.2	8.1	7.9	7.6	7.4	7.2	6.9	6.6	6.3	6.0
75°	10.3	10.1	9.9	9.6	9.4	9.1	8.8	8.5	8.1	7.8	7.4
72.5°	11.6	11.5	11.3	11.2	11.0	10.8	10.4	10.0	9.7	9.2	8.8
70°	12.5	12.4	12.2	12.1	11.9	11.7	11.5	11.3	11.1	10.7	10.2
67.5°	13.4	13.3	13.1	12.9	12.7	12.5	12.3	12.1	11.8	11.6	11.3
65°	15.1	14.6	14.0	13.8	13.6	13.4	13.1	12.8	12.6	12.3	12.0
62.5°	17.6	17.2	16.7	16.0	15.3	14.5	13.9	13.6	13.3	13.0	12.6
60°	19.4	19.0	18.6	18.1	17.5	16.9	16.0	15.0	14.0	13.7	13.3
57.5°	21.1	20.8	20.3	19.8	19.2	18.6	17.9	17.2	16.2	15.0	13.9
55°	22.0	21.8	21.5	21.2	20.8	20.1	19.4	18.7	17.9	17.0	15.7
52.5°	23.0	22.7	22.4	22.1	21.7	21.4	20.9	20.1	19.2	18.3	17.4
50°	23.9	23.6	23.3	22.9	22.5	22.1	21.7	21.3	20.6	19.6	18.6
47.5°	24.8	24.4	24.1	23.7	23.3	22.9	22.4	22.0	21.5	20.9	19.8
45°	26.3	25.6	24.9	24.5	24.1	23.6	23.2	22.6	22.1	21.6	21.0
42.5°	28.1	27.3	26.5	25.7	24.9	24.4	23.9	23.3	22.8	22.2	21.6
40°	29.4	29.0	28.2	27.2	26.2	25.2	24.5	24.0	23.4	22.8	22.1
37.5°	30.0	29.9	29.4	28.8	27.7	26.6	25.4	24.6	24.0	23.3	22.6
35°	30.3	30.0	30.0	29.6	29.1	28.0	26.7	25.4	24.5	23.9	23.2
32.5°	31.9	30.9	30.0	30.0	29.8	29.1	28.0	26.6	25.2	24.4	23.6
30°	34.4	32.8	31.4	30.2	30.0	29.8	29.1	27.7	26.2	24.9	24.1
27.5°	55.5	35.5	33.2	31.5	30.2	30.0	29.6	28.8	27.2	25.7	24.5
25°	87.5	61.0	38.1	33.2	31.4	30.0	30.0	29.4	28.2	26.5	24.9
22.5°	124.2	91.6	61.0	35.5	32.8	30.9	30.0	29.9	29.0	27.3	25.6
20°	163.2	124.2	87.5	55.5	34.4	31.9	30.3	30.0	29.4	28.1	26.3
17.5°	208.9	157.9	115.3	75.4	44.6	33.3	31.1	30.0	29.8	28.7	26.9
15°	256.8	194.3	142.2	98.6	59.8	34.5	31.8	30.0	30.0	29.2	27.5
12.5°	300.8	232.4	169.0	118.9	74.4	41.0	32.7	30.6	30.0	29.4	27.9
10°	341.6	266.0	194.8	137.3	90.1	51.2	33.5	31.1	30.0	29.6	28.3
7.5°	375.3	293.7	218.1	153.2	102.6	59.3	34.2	31.5	30.0	29.8	28.6
5°	400.7	315.3	236.2	165.2	111.6	65.2	34.6	31.8	30.0	29.9	28.8
2.5°	416.6	328.9	247.3	173.3	117.2	68.8	34.9	31.9	30.0	30.0	29.0
0°	422.0	333.5	251.0	176.0	119.0	70.0	35.0	32.0	30.0	30.0	29.0
-2.5°	416.6	328.9	247.3	173.3	117.2	68.8	34.9	31.9	30.0	30.0	29.0
-5°	400.7	315.3	236.2	165.2	111.6	65.2	34.6	31.8	30.0	29.9	28.8
-7.5°	375.3	293.7	218.1	153.2	102.6	59.3	34.2	31.5	30.0	29.8	28.6
-10°	341.6	266.0	194.8	137.3	90.1	51.2	33.5	31.1	30.0	29.6	28.3
-12.5°	300.8	232.4	169.0	118.9	74.4	41.0	32.7	30.6	30.0	29.4	27.9
-15°	256.8	194.3	142.2	98.6	59.8	34.5	31.8	30.0	30.0	29.2	27.5
-17.5°	208.9	157.9	115.3	75.4	44.6	33.3	31.1	30.0	29.8	28.7	26.9
-20°	163.2	124.2	87.5	55.5	34.4	31.9	30.3	30.0	29.4	28.1	26.3



REPORT NUMBER: P29545 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LEDCB-W-WT-LC1-UNV

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	124.2	91.6	61.0	35.5	32.8	30.9	30.0	29.9	29.0	27.3	25.6
-25°	87.5	61.0	38.1	33.2	31.4	30.0	30.0	29.4	28.2	26.5	24.9
-27.5°	55.5	35.5	33.2	31.5	30.2	30.0	29.6	28.8	27.2	25.7	24.5
-30°	34.4	32.8	31.4	30.2	30.0	29.8	29.1	27.7	26.2	24.9	24.1
-32.5°	31.9	30.9	30.0	30.0	29.8	29.1	28.0	26.6	25.2	24.4	23.6
-35°	30.3	30.0	30.0	29.6	29.1	28.0	26.7	25.4	24.5	23.9	23.2
-37.5°	30.0	29.9	29.4	28.8	27.7	26.6	25.4	24.6	24.0	23.3	22.6
-40°	29.4	29.0	28.2	27.2	26.2	25.2	24.5	24.0	23.4	22.8	22.1
-42.5°	28.1	27.3	26.5	25.7	24.9	24.4	23.9	23.3	22.8	22.2	21.6
-45°	26.3	25.6	24.9	24.5	24.1	23.6	23.2	22.6	22.1	21.6	21.0
-47.5°	24.8	24.4	24.1	23.7	23.3	22.9	22.4	22.0	21.5	20.9	19.8
-50°	23.9	23.6	23.3	22.9	22.5	22.1	21.7	21.3	20.6	19.6	18.6
-52.5°	23.0	22.7	22.4	22.1	21.7	21.4	20.9	20.1	19.2	18.3	17.4
-55°	22.0	21.8	21.5	21.2	20.8	20.1	19.4	18.7	17.9	17.0	15.7
-57.5°	21.1	20.8	20.3	19.8	19.2	18.6	17.9	17.2	16.2	15.0	13.9
-60°	19.4	19.0	18.6	18.1	17.5	16.9	16.0	15.0	14.0	13.7	13.3
-62.5°	17.6	17.2	16.7	16.0	15.3	14.5	13.9	13.6	13.3	13.0	12.6
-65°	15.1	14.6	14.0	13.8	13.6	13.4	13.1	12.8	12.6	12.3	12.0
-67.5°	13.4	13.3	13.1	12.9	12.7	12.5	12.3	12.1	11.8	11.6	11.3
-70°	12.5	12.4	12.2	12.1	11.9	11.7	11.5	11.3	11.1	10.7	10.2
-72.5°	11.6	11.5	11.3	11.2	11.0	10.8	10.4	10.0	9.7	9.2	8.8
-75°	10.3	10.1	9.9	9.6	9.4	9.1	8.8	8.5	8.1	7.8	7.4
-77.5°	8.4	8.2	8.1	7.9	7.6	7.4	7.2	6.9	6.6	6.3	6.0
-80°	6.5	6.4	6.2	6.1	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



REPORT NUMBER: P29545 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LEDCB-W-WT-LC1-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°	0.7	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°	7.1	6.7	6.3	5.8	5.4	4.9	4.5	4.0	3.5	3.1	2.6
72.5°	8.4	7.9	7.4	6.9	6.4	5.9	5.4	4.8	4.3	3.7	3.2
70°	9.7	9.2	8.6	8.1	7.5	6.9	6.3	5.6	5.0	4.4	3.7
67.5°	11.0	10.4	9.8	9.1	8.5	7.8	7.1	6.4	5.7	5.0	4.3
65°	11.6	11.3	10.9	10.2	9.5	8.8	8.0	7.2	6.4	5.6	4.8
62.5°	12.3	11.9	11.5	11.1	10.5	9.7	8.8	8.0	7.1	6.3	5.4
60°	12.9	12.5	12.1	11.7	11.2	10.6	9.7	8.8	7.8	6.9	5.9
57.5°	13.5	13.1	12.6	12.2	11.7	11.2	10.5	9.5	8.5	7.5	6.4
55°	14.4	13.7	13.2	12.7	12.2	11.7	11.1	10.2	9.1	8.1	6.9
52.5°	16.1	14.6	13.7	13.2	12.6	12.1	11.5	10.9	9.8	8.6	7.4
50°	17.6	16.3	14.6	13.7	13.1	12.5	11.9	11.3	10.4	9.2	7.9
47.5°	18.7	17.6	16.1	14.4	13.5	12.9	12.3	11.6	11.0	9.7	8.4
45°	19.8	18.6	17.4	15.7	13.9	13.3	12.6	12.0	11.3	10.2	8.8
42.5°	20.9	19.6	18.3	17.0	15.0	13.7	13.0	12.3	11.6	10.7	9.2
40°	21.5	20.6	19.2	17.9	16.2	14.0	13.3	12.6	11.8	11.1	9.7
37.5°	22.0	21.3	20.1	18.7	17.2	15.0	13.6	12.8	12.1	11.3	10.0
35°	22.4	21.7	20.9	19.4	17.9	16.0	13.9	13.1	12.3	11.5	10.4
32.5°	22.9	22.1	21.4	20.1	18.6	16.9	14.5	13.4	12.5	11.7	10.8
30°	23.3	22.5	21.7	20.8	19.2	17.5	15.3	13.6	12.7	11.9	11.0
27.5°	23.7	22.9	22.1	21.2	19.8	18.1	16.0	13.8	12.9	12.1	11.2
25°	24.1	23.3	22.4	21.5	20.3	18.6	16.7	14.0	13.1	12.2	11.3
22.5°	24.4	23.6	22.7	21.8	20.8	19.0	17.2	14.6	13.3	12.4	11.5
20°	24.8	23.9	23.0	22.0	21.1	19.4	17.6	15.1	13.4	12.5	11.6
17.5°	25.1	24.1	23.2	22.3	21.3	19.8	17.9	15.5	13.6	12.6	11.7
15°	25.6	24.4	23.4	22.5	21.5	20.1	18.2	15.9	13.7	12.7	11.8
12.5°	26.0	24.5	23.6	22.6	21.7	20.4	18.4	16.2	13.8	12.8	11.8
10°	26.4	24.7	23.7	22.8	21.8	20.6	18.6	16.5	13.9	12.9	11.9
7.5°	26.6	24.8	23.8	22.9	21.9	20.8	18.8	16.7	13.9	12.9	11.9
5°	26.8	24.9	23.9	22.9	21.9	20.9	18.9	16.9	14.0	13.0	12.0
2.5°	27.0	25.0	24.0	23.0	22.0	21.0	19.0	17.0	14.0	13.0	12.0
0°	27.0	25.0	24.0	23.0	22.0	21.0	19.0	17.0	14.0	13.0	12.0
-2.5°	27.0	25.0	24.0	23.0	22.0	21.0	19.0	17.0	14.0	13.0	12.0
-5°	26.8	24.9	23.9	22.9	21.9	20.9	18.9	16.9	14.0	13.0	12.0
-7.5°	26.6	24.8	23.8	22.9	21.9	20.8	18.8	16.7	13.9	12.9	11.9
-10°	26.4	24.7	23.7	22.8	21.8	20.6	18.6	16.5	13.9	12.9	11.9
-12.5°	26.0	24.5	23.6	22.6	21.7	20.4	18.4	16.2	13.8	12.8	11.8
-15°	25.6	24.4	23.4	22.5	21.5	20.1	18.2	15.9	13.7	12.7	11.8
-17.5°	25.1	24.1	23.2	22.3	21.3	19.8	17.9	15.5	13.6	12.6	11.7
-20°	24.8	23.9	23.0	22.0	21.1	19.4	17.6	15.1	13.4	12.5	11.6



REPORT NUMBER: P29545 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LEDCB-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°	24.4	23.6	22.7	21.8	20.8	19.0	17.2	14.6	13.3	12.4	11.5
-25°	24.1	23.3	22.4	21.5	20.3	18.6	16.7	14.0	13.1	12.2	11.3
-27.5°	23.7	22.9	22.1	21.2	19.8	18.1	16.0	13.8	12.9	12.1	11.2
-30°	23.3	22.5	21.7	20.8	19.2	17.5	15.3	13.6	12.7	11.9	11.0
-32.5°	22.9	22.1	21.4	20.1	18.6	16.9	14.5	13.4	12.5	11.7	10.8
-35°	22.4	21.7	20.9	19.4	17.9	16.0	13.9	13.1	12.3	11.5	10.4
-37.5°	22.0	21.3	20.1	18.7	17.2	15.0	13.6	12.8	12.1	11.3	10.0
-40°	21.5	20.6	19.2	17.9	16.2	14.0	13.3	12.6	11.8	11.1	9.7
-42.5°	20.9	19.6	18.3	17.0	15.0	13.7	13.0	12.3	11.6	10.7	9.2
-45°	19.8	18.6	17.4	15.7	13.9	13.3	12.6	12.0	11.3	10.2	8.8
-47.5°	18.7	17.6	16.1	14.4	13.5	12.9	12.3	11.6	11.0	9.7	8.4
-50°	17.6	16.3	14.6	13.7	13.1	12.5	11.9	11.3	10.4	9.2	7.9
-52.5°	16.1	14.6	13.7	13.2	12.6	12.1	11.5	10.9	9.8	8.6	7.4
-55°	14.4	13.7	13.2	12.7	12.2	11.7	11.1	10.2	9.1	8.1	6.9
-57.5°	13.5	13.1	12.6	12.2	11.7	11.2	10.5	9.5	8.5	7.5	6.4
-60°	12.9	12.5	12.1	11.7	11.2	10.6	9.7	8.8	7.8	6.9	5.9
-62.5°	12.3	11.9	11.5	11.1	10.5	9.7	8.8	8.0	7.1	6.3	5.4
-65°	11.6	11.3	10.9	10.2	9.5	8.8	8.0	7.2	6.4	5.6	4.8
-67.5°	11.0	10.4	9.8	9.1	8.5	7.8	7.1	6.4	5.7	5.0	4.3
-70°	9.7	9.2	8.6	8.1	7.5	6.9	6.3	5.6	5.0	4.4	3.7
-72.5°	8.4	7.9	7.4	6.9	6.4	5.9	5.4	4.8	4.3	3.7	3.2
-75°	7.1	6.7	6.3	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



REPORT NUMBER: P29545 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	0.3	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°	6.3	5.1	3.9	2.6	1.4	0.6	0.0
50°	6.7	5.4	4.1	2.9	1.6	0.6	0.0
47.5°	7.1	5.7	4.4	3.0	1.7	0.7	0.0
45°	7.4	6.0	4.6	3.2	1.8	0.7	0.0
42.5°	7.8	6.3	4.9	3.4	1.9	0.7	0.0
40°	8.1	6.6	5.1	3.6	2.1	0.8	0.0
37.5°	8.5	6.9	5.3	3.8	2.2	0.8	0.0
35°	8.8	7.2	5.5	3.9	2.3	0.8	0.0
32.5°	9.1	7.4	5.7	4.1	2.4	0.8	0.0
30°	9.4	7.6	5.9	4.2	2.5	0.9	0.0
27.5°	9.6	7.9	6.1	4.3	2.5	0.9	0.0
25°	9.9	8.1	6.2	4.4	2.6	0.9	0.0
22.5°	10.1	8.2	6.4	4.5	2.7	0.9	0.0
20°	10.3	8.4	6.5	4.6	2.8	0.9	0.0
17.5°	10.4	8.5	6.6	4.7	2.8	1.0	0.0
15°	10.6	8.7	6.7	4.8	2.9	1.0	0.0
12.5°	10.7	8.8	6.8	4.9	2.9	1.0	0.0
10°	10.8	8.8	6.9	4.9	2.9	1.0	0.0
7.5°	10.9	8.9	6.9	4.9	3.0	1.0	0.0
5°	11.0	9.0	7.0	5.0	3.0	1.0	0.0
2.5°	11.0	9.0	7.0	5.0	3.0	1.0	0.0
0°	11.0	9.0	7.0	5.0	3.0	1.0	0.0
-2.5°	11.0	9.0	7.0	5.0	3.0	1.0	0.0
-5°	11.0	9.0	7.0	5.0	3.0	1.0	0.0
-7.5°	10.9	8.9	6.9	4.9	3.0	1.0	0.0
-10°	10.8	8.8	6.9	4.9	2.9	1.0	0.0
-12.5°	10.7	8.8	6.8	4.9	2.9	1.0	0.0
-15°	10.6	8.7	6.7	4.8	2.9	1.0	0.0
-17.5°	10.4	8.5	6.6	4.7	2.8	1.0	0.0
-20°	10.3	8.4	6.5	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°	10.1	8.2	6.4	4.5	2.7	0.9	0.0
-25°	9.9	8.1	6.2	4.4	2.6	0.9	0.0
-27.5°	9.6	7.9	6.1	4.3	2.5	0.9	0.0
-30°	9.4	7.6	5.9	4.2	2.5	0.9	0.0
-32.5°	9.1	7.4	5.7	4.1	2.4	0.8	0.0
-35°	8.8	7.2	5.5	3.9	2.3	0.8	0.0
-37.5°	8.5	6.9	5.3	3.8	2.2	0.8	0.0
-40°	8.1	6.6	5.1	3.6	2.1	0.8	0.0
-42.5°	7.8	6.3	4.9	3.4	1.9	0.7	0.0
-45°	7.4	6.0	4.6	3.2	1.8	0.7	0.0
-47.5°	7.1	5.7	4.4	3.0	1.7	0.7	0.0
-50°	6.7	5.4	4.1	2.9	1.6	0.6	0.0
-52.5°	6.3	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)