

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: P220331 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-W-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220331 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29412)
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]-LED3590-W-WT-L1-UNV
Description: LUMIERE LANTERRA 1002 LED ACCENT/PATH/SIGN LUMINAIRE, RECESSED LENS,
WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

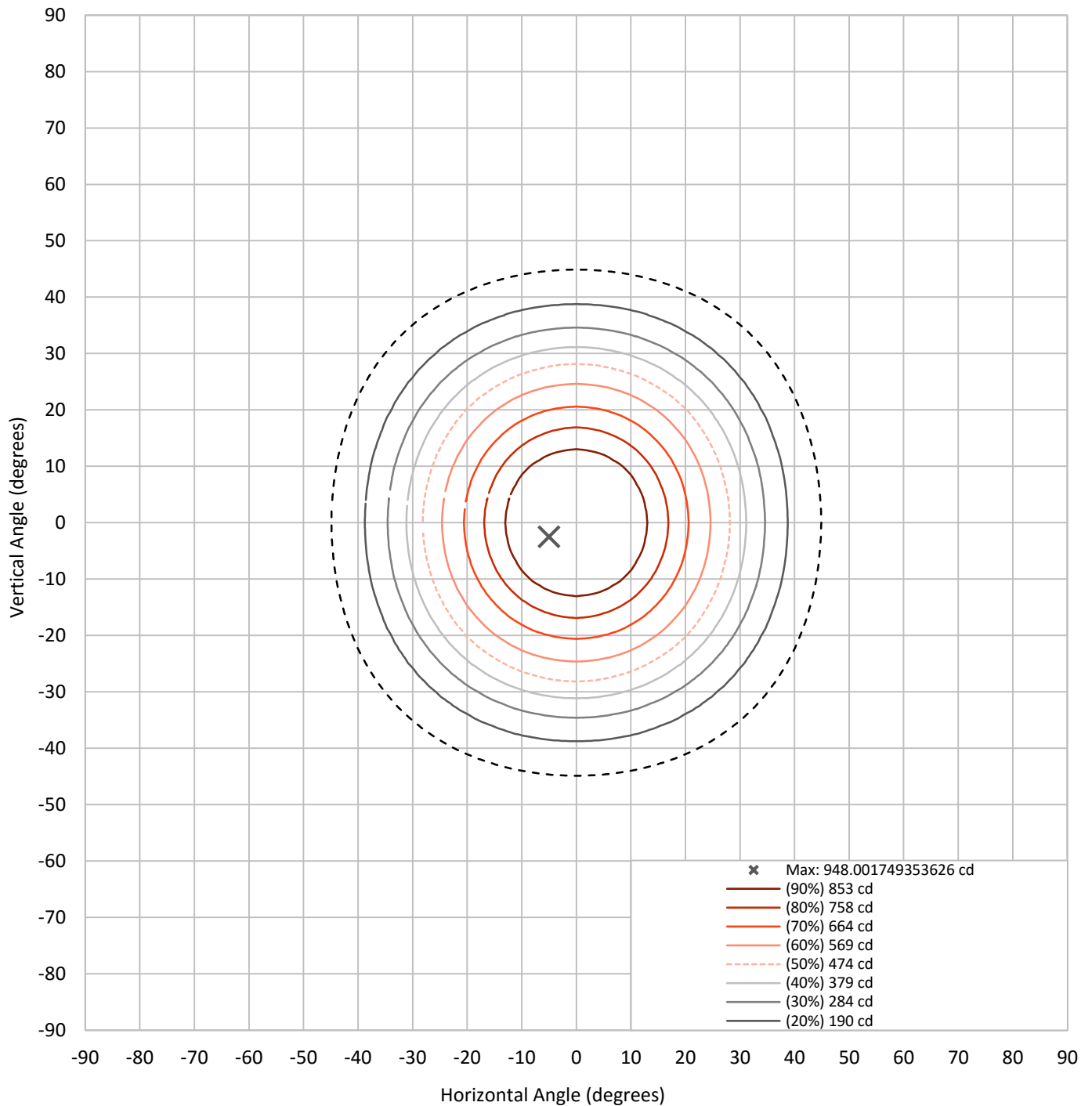
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	840.1 lumens	Max Intensity:	948 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x -2.5°V
Efficacy:	84.0 lumens/watt		
Luminous Opening:	Circular (Dia: 0.17' x H: 0')		
Beam Angle (50%):	56.1°H x 55.6°V	Field Angle (10%):	89.7°H x 89.4°V
Beam Lumens:	519.6 lumens	Field Lumens:	784.4 lumens
Beam Efficiency:	61.9%	Field Efficiency:	93.4%
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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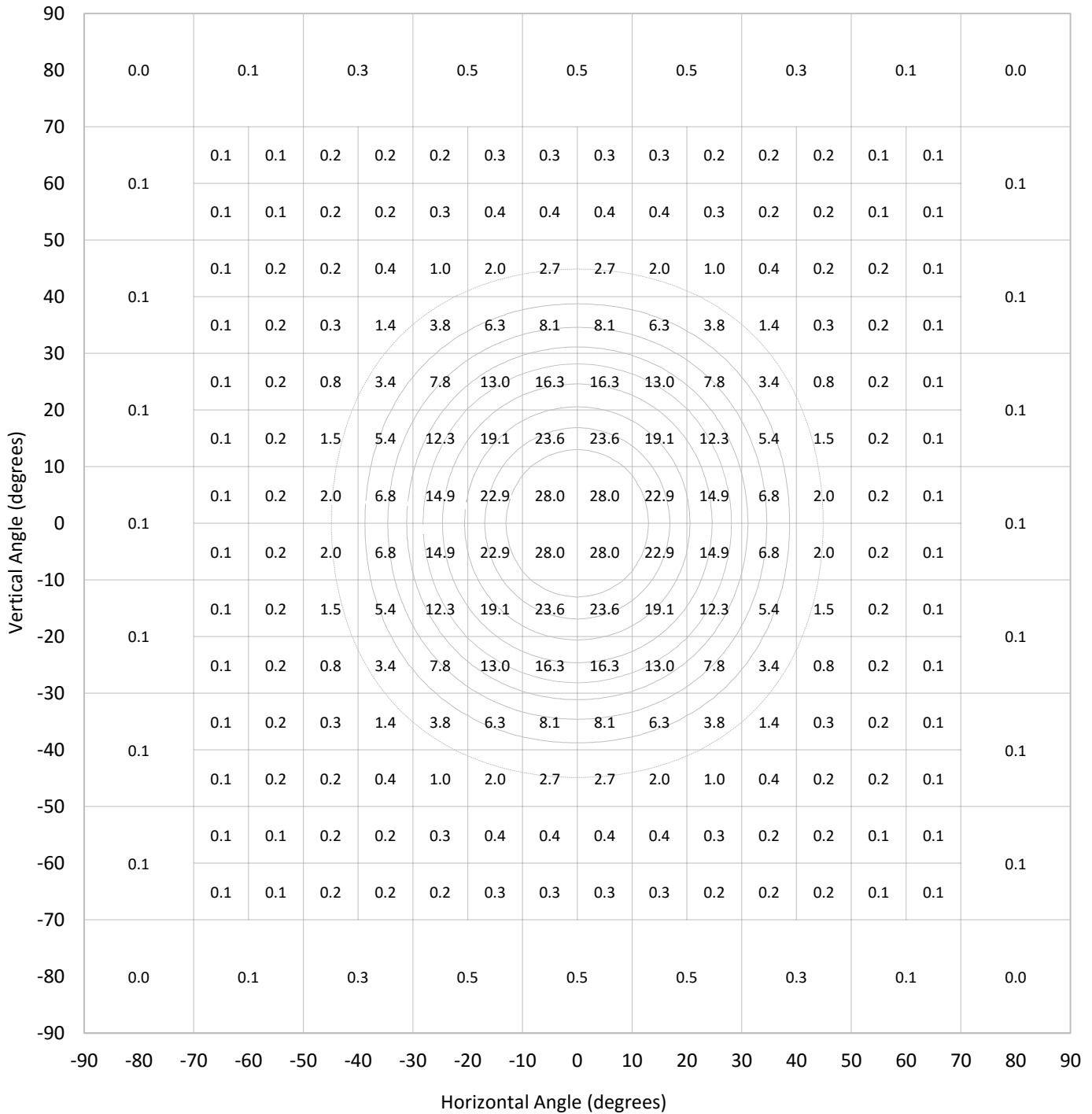
Iso-Candela Plot





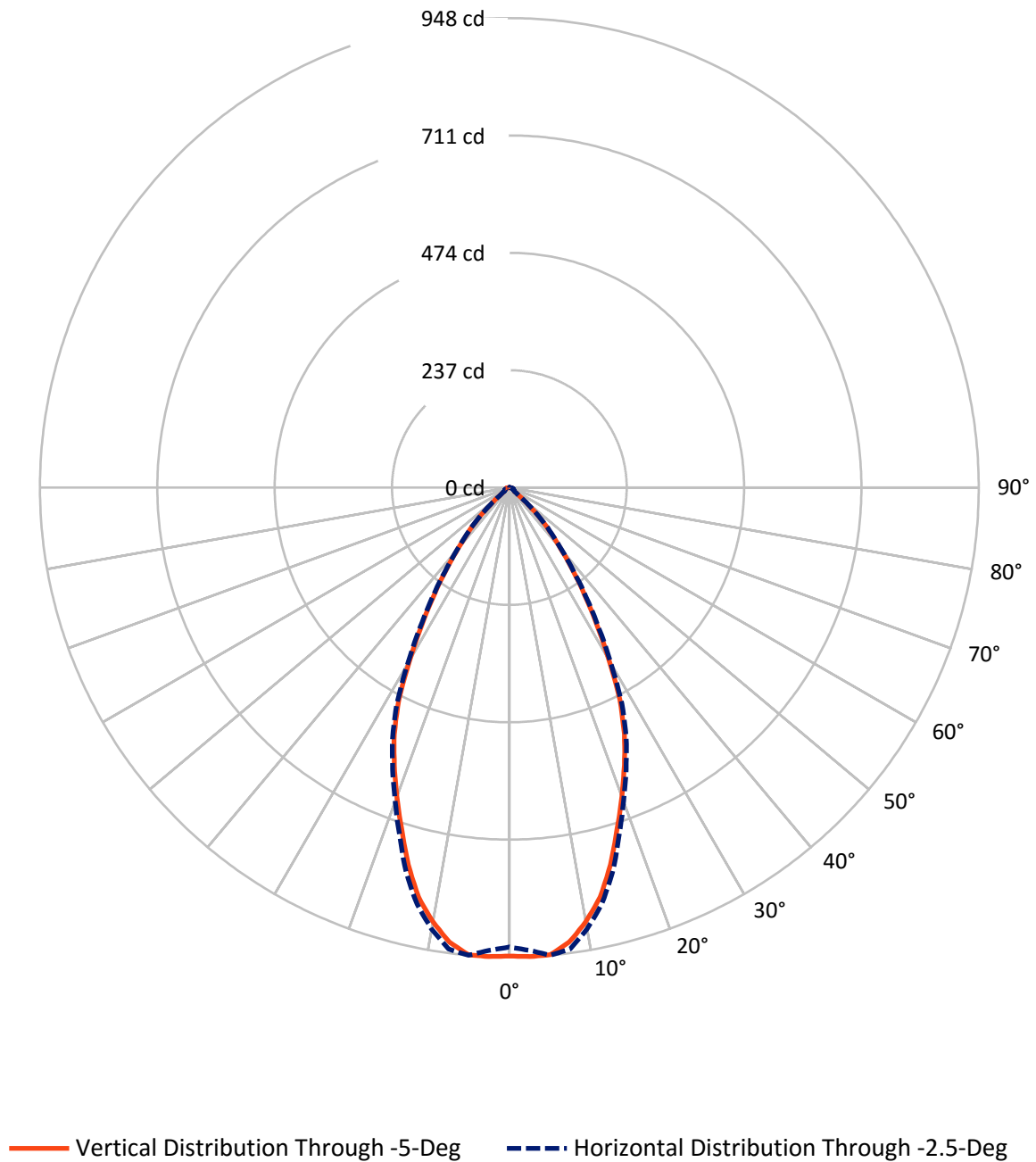
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Lumen Table



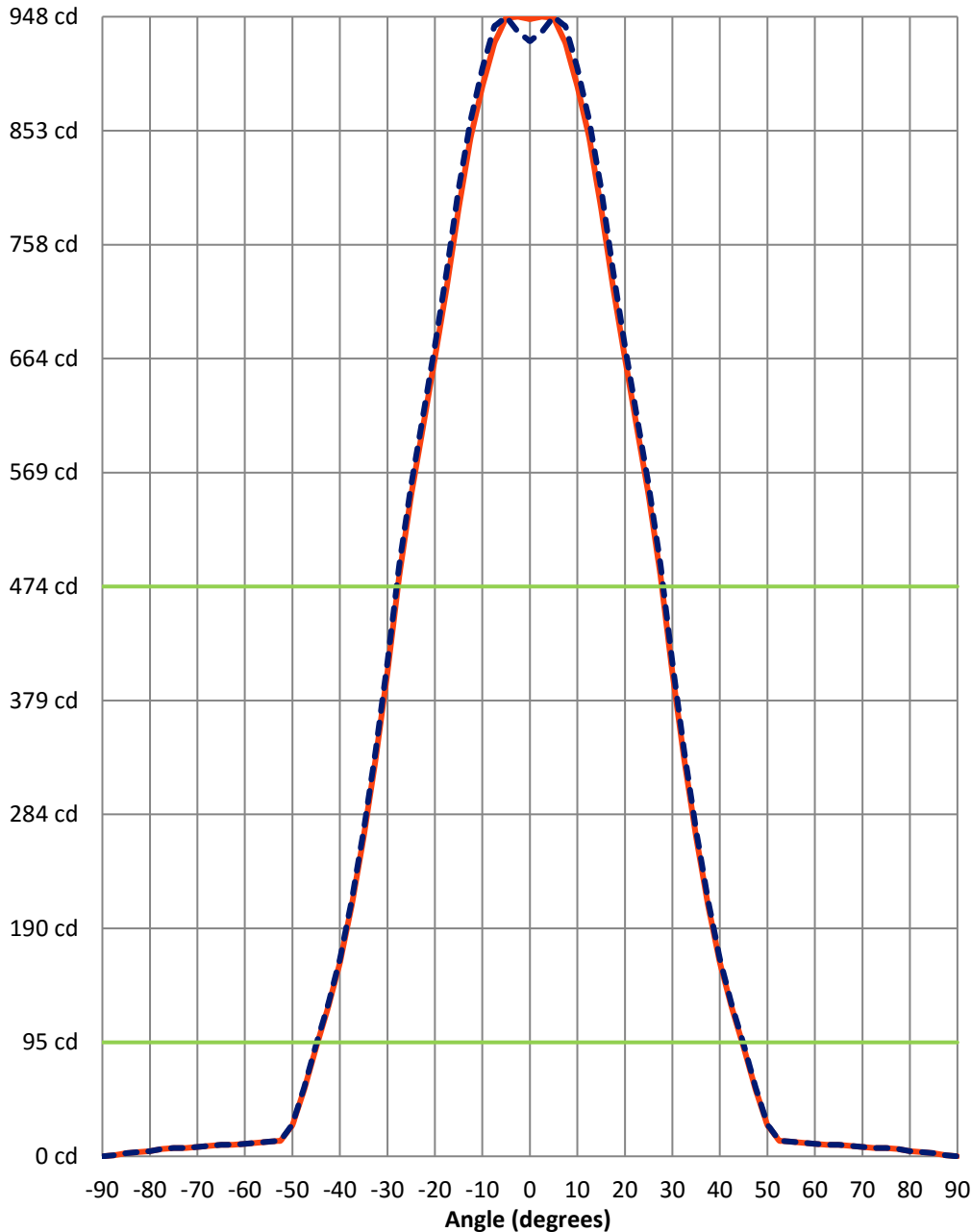
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 56.1°
 V Angle: 55.6°
 Lumens: 519.6
 Efficiency: 61.9%

Field:
 H Angle: 89.7°
 V Angle: 89.4°
 Lumens: 784.4
 Efficiency: 93.4%

Spill:
 Lumens: 55.7
 Efficiency: 6.6%

- Vertical Distribution through -5-Deg
- - Horizontal Distribution through -2.5-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	0.2	0.3	0.3	0.3	0.4
85°	0.0	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.8
82.5°	0.0	0.1	0.2	0.4	0.5	0.6	0.7	0.8	0.9	1.1	1.4
80°	0.0	0.2	0.3	0.5	0.6	0.8	1.0	1.2	1.5	1.8	2.1
77.5°	0.0	0.2	0.4	0.6	0.8	1.0	1.4	1.7	2.1	2.4	2.7
75°	0.0	0.2	0.5	0.7	1.0	1.4	1.8	2.2	2.6	2.8	3.1
72.5°	0.0	0.3	0.5	0.8	1.2	1.7	2.2	2.7	2.9	3.2	3.4
70°	0.0	0.3	0.6	0.9	1.5	2.1	2.6	2.9	3.2	3.5	3.8
67.5°	0.0	0.3	0.7	1.1	1.8	2.4	2.8	3.2	3.5	3.8	4.1
65°	0.0	0.4	0.8	1.4	2.1	2.7	3.1	3.4	3.8	4.1	4.5
62.5°	0.0	0.4	0.8	1.5	2.3	2.9	3.3	3.7	4.0	4.4	5.2
60°	0.0	0.4	0.9	1.7	2.6	3.0	3.5	3.9	4.3	5.0	5.9
57.5°	0.0	0.5	1.0	1.9	2.7	3.2	3.7	4.1	4.7	5.6	6.3
55°	0.0	0.5	1.1	2.1	2.9	3.4	3.8	4.3	5.2	6.2	6.6
52.5°	0.0	0.5	1.3	2.3	3.0	3.5	4.0	4.7	5.8	6.4	6.9
50°	0.0	0.6	1.4	2.5	3.1	3.7	4.2	5.1	6.2	6.7	6.9
47.5°	0.0	0.6	1.5	2.6	3.2	3.8	4.4	5.5	6.4	6.9	6.9
45°	0.0	0.6	1.6	2.7	3.3	3.9	4.7	5.9	6.6	6.9	6.9
42.5°	0.0	0.7	1.7	2.8	3.4	4.0	5.0	6.2	6.8	6.9	7.1
40°	0.0	0.7	1.8	2.9	3.5	4.2	5.3	6.4	6.9	6.9	7.4
37.5°	0.0	0.7	1.9	2.9	3.6	4.3	5.6	6.5	6.9	7.0	7.7
35°	0.0	0.7	2.0	3.0	3.7	4.5	5.9	6.7	6.9	7.2	7.9
32.5°	0.0	0.8	2.1	3.1	3.8	4.7	6.1	6.8	6.9	7.4	8.1
30°	0.0	0.8	2.1	3.1	3.9	4.9	6.2	6.9	6.9	7.6	8.3
27.5°	0.0	0.8	2.2	3.2	3.9	5.1	6.3	6.9	7.0	7.7	8.5
25°	0.0	0.8	2.3	3.2	4.0	5.2	6.4	6.9	7.1	7.9	8.7
22.5°	0.0	0.8	2.3	3.3	4.1	5.4	6.5	6.9	7.2	8.1	8.9
20°	0.0	0.8	2.4	3.3	4.1	5.5	6.6	6.9	7.3	8.2	9.0
17.5°	0.0	0.9	2.4	3.4	4.2	5.7	6.7	6.9	7.5	8.3	9.2
15°	0.0	0.9	2.5	3.4	4.2	5.8	6.7	6.9	7.5	8.4	9.3
12.5°	0.0	0.9	2.5	3.4	4.2	5.9	6.8	6.9	7.6	8.5	9.4
10°	0.0	0.9	2.5	3.5	4.3	6.0	6.8	6.9	7.7	8.6	9.5
7.5°	0.0	0.9	2.6	3.5	4.3	6.0	6.9	6.9	7.7	8.6	9.5
5°	0.0	0.9	2.6	3.5	4.3	6.1	6.9	6.9	7.8	8.7	9.6
2.5°	0.0	0.9	2.6	3.5	4.3	6.1	6.9	6.9	7.8	8.7	9.6
0°	0.0	0.9	2.6	3.5	4.3	6.1	6.9	6.9	7.8	8.7	9.6
-2.5°	0.0	0.9	2.6	3.5	4.3	6.1	6.9	6.9	7.8	8.7	9.6
-5°	0.0	0.9	2.6	3.5	4.3	6.1	6.9	6.9	7.8	8.7	9.6
-7.5°	0.0	0.9	2.6	3.5	4.3	6.0	6.9	6.9	7.7	8.6	9.5
-10°	0.0	0.9	2.5	3.5	4.3	6.0	6.8	6.9	7.7	8.6	9.5
-12.5°	0.0	0.9	2.5	3.4	4.2	5.9	6.8	6.9	7.6	8.5	9.4
-15°	0.0	0.9	2.5	3.4	4.2	5.8	6.7	6.9	7.5	8.4	9.3
-17.5°	0.0	0.9	2.4	3.4	4.2	5.7	6.7	6.9	7.5	8.3	9.2
-20°	0.0	0.8	2.4	3.3	4.1	5.5	6.6	6.9	7.3	8.2	9.0



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-W-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	0.8	2.3	3.3	4.1	5.4	6.5	6.9	7.2	8.1	8.9
-25°	0.0	0.8	2.3	3.2	4.0	5.2	6.4	6.9	7.1	7.9	8.7
-27.5°	0.0	0.8	2.2	3.2	3.9	5.1	6.3	6.9	7.0	7.7	8.5
-30°	0.0	0.8	2.1	3.1	3.9	4.9	6.2	6.9	6.9	7.6	8.3
-32.5°	0.0	0.8	2.1	3.1	3.8	4.7	6.1	6.8	6.9	7.4	8.1
-35°	0.0	0.7	2.0	3.0	3.7	4.5	5.9	6.7	6.9	7.2	7.9
-37.5°	0.0	0.7	1.9	2.9	3.6	4.3	5.6	6.5	6.9	7.0	7.7
-40°	0.0	0.7	1.8	2.9	3.5	4.2	5.3	6.4	6.9	6.9	7.4
-42.5°	0.0	0.7	1.7	2.8	3.4	4.0	5.0	6.2	6.8	6.9	7.1
-45°	0.0	0.6	1.6	2.7	3.3	3.9	4.7	5.9	6.6	6.9	6.9
-47.5°	0.0	0.6	1.5	2.6	3.2	3.8	4.4	5.5	6.4	6.9	6.9
-50°	0.0	0.6	1.4	2.5	3.1	3.7	4.2	5.1	6.2	6.7	6.9
-52.5°	0.0	0.5	1.3	2.3	3.0	3.5	4.0	4.7	5.8	6.4	6.9
-55°	0.0	0.5	1.1	2.1	2.9	3.4	3.8	4.3	5.2	6.2	6.6
-57.5°	0.0	0.5	1.0	1.9	2.7	3.2	3.7	4.1	4.7	5.6	6.3
-60°	0.0	0.4	0.9	1.7	2.6	3.0	3.5	3.9	4.3	5.0	5.9
-62.5°	0.0	0.4	0.8	1.5	2.3	2.9	3.3	3.7	4.0	4.4	5.2
-65°	0.0	0.4	0.8	1.4	2.1	2.7	3.1	3.4	3.8	4.1	4.5
-67.5°	0.0	0.3	0.7	1.1	1.8	2.4	2.8	3.2	3.5	3.8	4.1
-70°	0.0	0.3	0.6	0.9	1.5	2.1	2.6	2.9	3.2	3.5	3.8
-72.5°	0.0	0.3	0.5	0.8	1.2	1.7	2.2	2.7	2.9	3.2	3.4
-75°	0.0	0.2	0.5	0.7	1.0	1.4	1.8	2.2	2.6	2.8	3.1
-77.5°	0.0	0.2	0.4	0.6	0.8	1.0	1.4	1.7	2.1	2.4	2.7
-80°	0.0	0.2	0.3	0.5	0.6	0.8	1.0	1.2	1.5	1.8	2.1
-82.5°	0.0	0.1	0.2	0.4	0.5	0.6	0.7	0.8	0.9	1.1	1.4
-85°	0.0	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.8
-87.5°	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	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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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-W-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	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7
85°	0.8	0.9	1.0	1.1	1.3	1.4	1.5	1.6	1.7	1.8	1.9
82.5°	1.5	1.7	1.9	2.1	2.3	2.5	2.6	2.7	2.8	2.9	2.9
80°	2.3	2.6	2.7	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6
77.5°	2.9	3.0	3.2	3.4	3.5	3.7	3.8	3.9	4.0	4.2	4.3
75°	3.3	3.5	3.7	3.8	4.0	4.2	4.4	4.7	5.0	5.3	5.6
72.5°	3.7	3.9	4.1	4.3	4.7	5.1	5.5	5.9	6.2	6.4	6.5
70°	4.0	4.3	4.7	5.2	5.8	6.2	6.4	6.6	6.8	6.9	6.9
67.5°	4.4	5.0	5.6	6.2	6.4	6.7	6.9	6.9	6.9	6.9	7.0
65°	5.2	5.9	6.3	6.6	6.9	6.9	6.9	6.9	7.1	7.4	7.7
62.5°	6.0	6.4	6.7	6.9	6.9	6.9	7.1	7.5	7.8	8.1	8.3
60°	6.4	6.7	6.9	6.9	7.0	7.3	7.7	8.1	8.4	8.7	9.0
57.5°	6.7	6.9	6.9	7.1	7.5	7.9	8.3	8.6	9.0	9.3	9.6
55°	6.9	6.9	7.1	7.5	8.0	8.4	8.8	9.2	9.6	9.6	9.6
52.5°	6.9	7.0	7.5	8.0	8.4	8.9	9.3	9.6	9.6	9.7	10.0
50°	6.9	7.3	7.9	8.4	8.9	9.4	9.6	9.6	9.9	10.2	10.6
47.5°	7.1	7.7	8.3	8.8	9.3	9.6	9.6	9.9	10.4	10.8	11.3
45°	7.5	8.1	8.6	9.2	9.6	9.6	9.9	10.4	10.9	11.4	11.9
42.5°	7.8	8.4	9.0	9.6	9.6	9.9	10.4	10.9	11.5	12.0	12.5
40°	8.1	8.7	9.3	9.6	9.7	10.2	10.8	11.4	12.0	12.5	13.0
37.5°	8.3	9.0	9.6	9.6	10.0	10.6	11.3	11.9	12.5	13.0	21.4
35°	8.6	9.3	9.6	9.8	10.4	11.0	11.7	12.3	12.9	20.6	33.6
32.5°	8.9	9.6	9.6	10.1	10.7	11.4	12.1	12.7	18.3	30.0	51.9
30°	9.1	9.6	9.7	10.3	11.1	11.8	12.5	14.5	25.1	46.4	71.0
27.5°	9.3	9.6	9.9	10.6	11.4	12.1	12.8	20.5	37.4	62.5	89.9
25°	9.5	9.6	10.1	10.9	11.7	12.4	14.4	26.1	51.0	79.1	106.7
22.5°	9.6	9.6	10.3	11.1	11.9	12.7	19.2	36.8	64.4	94.5	122.0
20°	9.6	9.8	10.5	11.3	12.2	12.9	23.6	47.4	77.5	107.6	137.5
17.5°	9.6	9.9	10.7	11.5	12.4	14.7	28.3	57.0	89.3	119.4	152.3
15°	9.6	10.0	10.9	11.7	12.5	17.9	36.1	66.5	99.2	130.3	165.5
12.5°	9.6	10.2	11.0	11.9	12.7	20.6	42.8	74.7	107.5	140.7	180.2
10°	9.6	10.2	11.1	12.0	12.8	22.9	48.3	81.5	114.4	149.3	192.4
7.5°	9.6	10.3	11.2	12.1	12.9	24.6	52.6	86.8	119.8	156.1	202.0
5°	9.6	10.4	11.3	12.1	12.9	25.9	55.7	90.7	123.7	161.0	209.0
2.5°	9.6	10.4	11.3	12.2	13.0	26.6	57.6	93.0	126.0	164.0	213.2
0°	9.6	10.4	11.3	12.2	13.0	26.9	58.2	93.8	126.8	165.0	214.6
-2.5°	9.6	10.4	11.3	12.2	13.0	26.9	58.2	93.8	126.8	165.0	214.6
-5°	9.6	10.4	11.3	12.1	12.9	25.9	55.7	90.7	123.7	161.0	209.0
-7.5°	9.6	10.3	11.2	12.1	12.9	24.6	52.6	86.8	119.8	156.1	202.0
-10°	9.6	10.2	11.1	12.0	12.8	22.9	48.3	81.5	114.4	149.3	192.4
-12.5°	9.6	10.2	11.0	11.9	12.7	20.6	42.8	74.7	107.5	140.7	180.2
-15°	9.6	10.0	10.9	11.7	12.5	17.9	36.1	66.5	99.2	130.3	165.5
-17.5°	9.6	9.9	10.7	11.5	12.4	14.7	28.3	57.0	89.3	119.4	152.3
-20°	9.6	9.8	10.5	11.3	12.2	12.9	23.6	47.4	77.5	107.6	137.5



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 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-W-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°	9.6	9.6	10.3	11.1	11.9	12.7	19.2	36.8	64.4	94.5	122.0
-25°	9.5	9.6	10.1	10.9	11.7	12.4	14.4	26.1	51.0	79.1	106.7
-27.5°	9.3	9.6	9.9	10.6	11.4	12.1	12.8	20.5	37.4	62.5	89.9
-30°	9.1	9.6	9.7	10.3	11.1	11.8	12.5	14.5	25.1	46.4	71.0
-32.5°	8.9	9.6	9.6	10.1	10.7	11.4	12.1	12.7	18.3	30.0	51.9
-35°	8.6	9.3	9.6	9.8	10.4	11.0	11.7	12.3	12.9	20.6	33.6
-37.5°	8.3	9.0	9.6	9.6	10.0	10.6	11.3	11.9	12.5	13.0	21.4
-40°	8.1	8.7	9.3	9.6	9.7	10.2	10.8	11.4	12.0	12.5	13.0
-42.5°	7.8	8.4	9.0	9.6	9.6	9.9	10.4	10.9	11.5	12.0	12.5
-45°	7.5	8.1	8.6	9.2	9.6	9.6	9.9	10.4	10.9	11.4	11.9
-47.5°	7.1	7.7	8.3	8.8	9.3	9.6	9.6	9.9	10.4	10.8	11.3
-50°	6.9	7.3	7.9	8.4	8.9	9.4	9.6	9.6	9.9	10.2	10.6
-52.5°	6.9	7.0	7.5	8.0	8.4	8.9	9.3	9.6	9.6	9.7	10.0
-55°	6.9	6.9	7.1	7.5	8.0	8.4	8.8	9.2	9.6	9.6	9.6
-57.5°	6.7	6.9	6.9	7.1	7.5	7.9	8.3	8.6	9.0	9.3	9.6
-60°	6.4	6.7	6.9	6.9	7.0	7.3	7.7	8.1	8.4	8.7	9.0
-62.5°	6.0	6.4	6.7	6.9	6.9	6.9	7.1	7.5	7.8	8.1	8.3
-65°	5.2	5.9	6.3	6.6	6.9	6.9	6.9	6.9	7.1	7.4	7.7
-67.5°	4.4	5.0	5.6	6.2	6.4	6.7	6.9	6.9	6.9	6.9	7.0
-70°	4.0	4.3	4.7	5.2	5.8	6.2	6.4	6.6	6.8	6.9	6.9
-72.5°	3.7	3.9	4.1	4.3	4.7	5.1	5.5	5.9	6.2	6.4	6.5
-75°	3.3	3.5	3.7	3.8	4.0	4.2	4.4	4.7	5.0	5.3	5.6
-77.5°	2.9	3.0	3.2	3.4	3.5	3.7	3.8	3.9	4.0	4.2	4.3
-80°	2.3	2.6	2.7	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6
-82.5°	1.5	1.7	1.9	2.1	2.3	2.5	2.6	2.7	2.8	2.9	2.9
-85°	0.8	0.9	1.0	1.1	1.3	1.4	1.5	1.6	1.7	1.8	1.9
-87.5°	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.7	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: P220331 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-W-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	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9
85°	2.0	2.1	2.1	2.2	2.3	2.3	2.4	2.4	2.5	2.5	2.5
82.5°	3.0	3.1	3.1	3.2	3.2	3.3	3.3	3.4	3.4	3.4	3.5
80°	3.7	3.8	3.9	3.9	4.0	4.1	4.1	4.2	4.2	4.2	4.3
77.5°	4.5	4.7	4.9	5.1	5.2	5.4	5.5	5.7	5.8	5.9	6.0
75°	5.9	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.7	6.8	6.8
72.5°	6.7	6.8	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
70°	6.9	6.9	6.9	7.0	7.1	7.2	7.3	7.5	7.5	7.6	7.7
67.5°	7.2	7.4	7.6	7.7	7.9	8.1	8.2	8.3	8.4	8.5	8.6
65°	7.9	8.1	8.3	8.5	8.7	8.9	9.0	9.2	9.3	9.4	9.5
62.5°	8.6	8.9	9.1	9.3	9.5	9.6	9.6	9.6	9.6	9.6	9.6
60°	9.3	9.6	9.6	9.6	9.6	9.6	9.8	9.9	10.0	10.2	10.2
57.5°	9.6	9.6	9.7	9.9	10.1	10.3	10.5	10.7	10.9	11.0	11.1
55°	9.8	10.1	10.3	10.6	10.9	11.1	11.3	11.5	11.7	11.9	12.0
52.5°	10.4	10.7	11.1	11.4	11.7	11.9	12.2	12.4	12.5	12.7	12.8
50°	11.0	11.4	11.8	12.1	12.4	12.7	12.9	14.7	17.9	20.6	22.9
47.5°	11.7	12.1	12.5	12.8	14.4	19.2	23.6	28.3	36.1	42.8	48.3
45°	12.3	12.7	14.5	20.5	26.1	36.8	47.4	57.0	66.5	74.7	81.5
42.5°	12.9	18.3	25.1	37.4	51.0	64.4	77.5	89.3	99.2	107.5	114.4
40°	20.6	30.0	46.4	62.5	79.1	94.5	107.6	119.4	130.3	140.7	149.3
37.5°	33.6	51.9	71.0	89.9	106.7	122.0	137.5	152.3	165.5	180.2	192.4
35°	53.8	75.3	96.3	114.9	133.5	152.5	171.6	192.3	210.7	228.7	244.3
32.5°	75.3	98.3	119.1	140.9	162.7	188.5	213.1	239.0	262.4	284.1	303.4
30°	96.3	119.1	143.5	168.8	198.9	229.5	260.4	290.9	319.6	345.5	369.4
27.5°	114.9	140.9	168.8	202.4	238.0	273.7	311.4	347.0	382.4	413.4	440.7
25°	133.5	162.7	198.9	238.0	278.7	321.9	365.4	407.8	448.1	487.2	515.1
22.5°	152.5	188.5	229.5	273.7	321.9	371.7	421.2	472.5	514.6	547.0	572.5
20°	171.6	213.1	260.4	311.4	365.4	421.2	480.7	527.7	565.5	597.1	624.3
17.5°	192.3	239.0	290.9	347.0	407.8	472.5	527.7	571.6	609.7	645.4	675.8
15°	210.7	262.4	319.6	382.4	448.1	514.6	565.5	609.7	652.8	691.3	728.9
12.5°	228.7	284.1	345.5	413.4	487.2	547.0	597.1	645.4	691.3	738.5	783.9
10°	244.3	303.4	369.4	440.7	515.1	572.5	624.3	675.8	728.9	783.9	832.9
7.5°	256.6	318.7	388.4	465.1	536.0	592.4	647.5	702.1	762.4	821.9	866.5
5°	265.6	329.8	402.3	482.9	549.8	606.7	664.2	723.3	788.4	847.1	890.1
2.5°	271.0	336.5	410.7	492.1	558.3	615.8	674.1	736.8	804.9	861.4	905.0
0°	272.8	338.8	413.5	495.2	561.1	618.9	677.5	741.4	810.5	866.1	910.3
-2.5°	271.0	336.5	410.7	492.1	558.3	615.8	674.1	736.8	804.9	861.4	905.0
-5°	265.6	329.8	402.3	482.9	549.8	606.7	664.2	723.3	788.4	847.1	890.1
-7.5°	256.6	318.7	388.4	465.1	536.0	592.4	647.5	702.1	762.4	821.9	866.5
-10°	244.3	303.4	369.4	440.7	515.1	572.5	624.3	675.8	728.9	783.9	832.9
-12.5°	228.7	284.1	345.5	413.4	487.2	547.0	597.1	645.4	691.3	738.5	783.9
-15°	210.7	262.4	319.6	382.4	448.1	514.6	565.5	609.7	652.8	691.3	728.9
-17.5°	192.3	239.0	290.9	347.0	407.8	472.5	527.7	571.6	609.7	645.4	675.8
-20°	171.6	213.1	260.4	311.4	365.4	421.2	480.7	527.7	565.5	597.1	624.3



REPORT NUMBER: P220331 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	152.5	188.5	229.5	273.7	321.9	371.7	421.2	472.5	514.6	547.0	572.5
-25°	133.5	162.7	198.9	238.0	278.7	321.9	365.4	407.8	448.1	487.2	515.1
-27.5°	114.9	140.9	168.8	202.4	238.0	273.7	311.4	347.0	382.4	413.4	440.7
-30°	96.3	119.1	143.5	168.8	198.9	229.5	260.4	290.9	319.6	345.5	369.4
-32.5°	75.3	98.3	119.1	140.9	162.7	188.5	213.1	239.0	262.4	284.1	303.4
-35°	53.8	75.3	96.3	114.9	133.5	152.5	171.6	192.3	210.7	228.7	244.3
-37.5°	33.6	51.9	71.0	89.9	106.7	122.0	137.5	152.3	165.5	180.2	192.4
-40°	20.6	30.0	46.4	62.5	79.1	94.5	107.6	119.4	130.3	140.7	149.3
-42.5°	12.9	18.3	25.1	37.4	51.0	64.4	77.5	89.3	99.2	107.5	114.4
-45°	12.3	12.7	14.5	20.5	26.1	36.8	47.4	57.0	66.5	74.7	81.5
-47.5°	11.7	12.1	12.5	12.8	14.4	19.2	23.6	28.3	36.1	42.8	48.3
-50°	11.0	11.4	11.8	12.1	12.4	12.7	12.9	14.7	17.9	20.6	22.9
-52.5°	10.4	10.7	11.1	11.4	11.7	11.9	12.2	12.4	12.5	12.7	12.8
-55°	9.8	10.1	10.3	10.6	10.9	11.1	11.3	11.5	11.7	11.9	12.0
-57.5°	9.6	9.6	9.7	9.9	10.1	10.3	10.5	10.7	10.9	11.0	11.1
-60°	9.3	9.6	9.6	9.6	9.6	9.6	9.8	9.9	10.0	10.2	10.2
-62.5°	8.6	8.9	9.1	9.3	9.5	9.6	9.6	9.6	9.6	9.6	9.6
-65°	7.9	8.1	8.3	8.5	8.7	8.9	9.0	9.2	9.3	9.4	9.5
-67.5°	7.2	7.4	7.6	7.7	7.9	8.1	8.2	8.3	8.4	8.5	8.6
-70°	6.9	6.9	6.9	7.0	7.1	7.2	7.3	7.5	7.5	7.6	7.7
-72.5°	6.7	6.8	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
-75°	5.9	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.7	6.8	6.8
-77.5°	4.5	4.7	4.9	5.1	5.2	5.4	5.5	5.7	5.8	5.9	6.0
-80°	3.7	3.8	3.9	3.9	4.0	4.1	4.1	4.2	4.2	4.2	4.3
-82.5°	3.0	3.1	3.1	3.2	3.2	3.3	3.3	3.4	3.4	3.4	3.5
-85°	2.0	2.1	2.1	2.2	2.3	2.3	2.4	2.4	2.5	2.5	2.5
-87.5°	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9
-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°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.4
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.4
80°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.2	4.2	4.2
77.5°	6.0	6.1	6.1	6.1	6.1	6.1	6.0	6.0	5.9	5.8	5.7
75°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.8	6.8	6.7	6.7
72.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
70°	7.7	7.8	7.8	7.8	7.8	7.8	7.7	7.7	7.6	7.5	7.5
67.5°	8.6	8.7	8.7	8.7	8.7	8.7	8.6	8.6	8.5	8.4	8.3
65°	9.5	9.6	9.6	9.6	9.6	9.6	9.5	9.5	9.4	9.3	9.2
62.5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
60°	10.3	10.4	10.4	10.4	10.4	10.4	10.3	10.2	10.2	10.0	9.9
57.5°	11.2	11.3	11.3	11.3	11.3	11.3	11.2	11.1	11.0	10.9	10.7
55°	12.1	12.1	12.2	12.2	12.2	12.1	12.1	12.0	11.9	11.7	11.5
52.5°	12.9	12.9	13.0	13.0	13.0	12.9	12.9	12.8	12.7	12.5	12.4
50°	24.6	25.9	26.6	26.9	26.6	25.9	24.6	22.9	20.6	17.9	14.7
47.5°	52.6	55.7	57.6	58.2	57.6	55.7	52.6	48.3	42.8	36.1	28.3
45°	86.8	90.7	93.0	93.8	93.0	90.7	86.8	81.5	74.7	66.5	57.0
42.5°	119.8	123.7	126.0	126.8	126.0	123.7	119.8	114.4	107.5	99.2	89.3
40°	156.1	161.0	164.0	165.0	164.0	161.0	156.1	149.3	140.7	130.3	119.4
37.5°	202.0	209.0	213.2	214.6	213.2	209.0	202.0	192.4	180.2	165.5	152.3
35°	256.6	265.6	271.0	272.8	271.0	265.6	256.6	244.3	228.7	210.7	192.3
32.5°	318.7	329.8	336.5	338.8	336.5	329.8	318.7	303.4	284.1	262.4	239.0
30°	388.4	402.3	410.7	413.5	410.7	402.3	388.4	369.4	345.5	319.6	290.9
27.5°	465.1	482.9	492.1	495.2	492.1	482.9	465.1	440.7	413.4	382.4	347.0
25°	536.0	549.8	558.3	561.1	558.3	549.8	536.0	515.1	487.2	448.1	407.8
22.5°	592.4	606.7	615.8	618.9	615.8	606.7	592.4	572.5	547.0	514.6	472.5
20°	647.5	664.2	674.1	677.5	674.1	664.2	647.5	624.3	597.1	565.5	527.7
17.5°	702.1	723.3	736.8	741.4	736.8	723.3	702.1	675.8	645.4	609.7	571.6
15°	762.4	788.4	804.9	810.5	804.9	788.4	762.4	728.9	691.3	652.8	609.7
12.5°	821.9	847.1	861.4	866.1	861.4	847.1	821.9	783.9	738.5	691.3	645.4
10°	866.5	890.1	905.0	910.3	905.0	890.1	866.5	832.9	783.9	728.9	675.8
7.5°	900.1	925.9	939.8	943.4	939.8	925.9	900.1	866.5	821.9	762.4	702.1
5°	925.9	947.1	948.0	946.0	948.0	947.1	925.9	890.1	847.1	788.4	723.3
2.5°	939.8	948.0	935.4	927.7	935.4	948.0	939.8	905.0	861.4	804.9	736.8
0°	943.4	946.0	927.7	925.1	927.7	946.0	943.4	910.3	866.1	810.5	741.4
-2.5°	939.8	948.0	935.4	927.7	935.4	948.0	939.8	905.0	861.4	804.9	736.8
-5°	925.9	947.1	948.0	946.0	948.0	947.1	925.9	890.1	847.1	788.4	723.3
-7.5°	900.1	925.9	939.8	943.4	939.8	925.9	900.1	866.5	821.9	762.4	702.1
-10°	866.5	890.1	905.0	910.3	905.0	890.1	866.5	832.9	783.9	728.9	675.8
-12.5°	821.9	847.1	861.4	866.1	861.4	847.1	821.9	783.9	738.5	691.3	645.4
-15°	762.4	788.4	804.9	810.5	804.9	788.4	762.4	728.9	691.3	652.8	609.7
-17.5°	702.1	723.3	736.8	741.4	736.8	723.3	702.1	675.8	645.4	609.7	571.6
-20°	647.5	664.2	674.1	677.5	674.1	664.2	647.5	624.3	597.1	565.5	527.7



REPORT NUMBER: P220331 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-W-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°	592.4	606.7	615.8	618.9	615.8	606.7	592.4	572.5	547.0	514.6	472.5
-25°	536.0	549.8	558.3	561.1	558.3	549.8	536.0	515.1	487.2	448.1	407.8
-27.5°	465.1	482.9	492.1	495.2	492.1	482.9	465.1	440.7	413.4	382.4	347.0
-30°	388.4	402.3	410.7	413.5	410.7	402.3	388.4	369.4	345.5	319.6	290.9
-32.5°	318.7	329.8	336.5	338.8	336.5	329.8	318.7	303.4	284.1	262.4	239.0
-35°	256.6	265.6	271.0	272.8	271.0	265.6	256.6	244.3	228.7	210.7	192.3
-37.5°	202.0	209.0	213.2	214.6	213.2	209.0	202.0	192.4	180.2	165.5	152.3
-40°	156.1	161.0	164.0	165.0	164.0	161.0	156.1	149.3	140.7	130.3	119.4
-42.5°	119.8	123.7	126.0	126.8	126.0	123.7	119.8	114.4	107.5	99.2	89.3
-45°	86.8	90.7	93.0	93.8	93.0	90.7	86.8	81.5	74.7	66.5	57.0
-47.5°	52.6	55.7	57.6	58.2	57.6	55.7	52.6	48.3	42.8	36.1	28.3
-50°	24.6	25.9	26.6	26.9	26.6	25.9	24.6	22.9	20.6	17.9	14.7
-52.5°	12.9	12.9	13.0	13.0	13.0	12.9	12.9	12.8	12.7	12.5	12.4
-55°	12.1	12.1	12.2	12.2	12.2	12.1	12.1	12.0	11.9	11.7	11.5
-57.5°	11.2	11.3	11.3	11.3	11.3	11.3	11.2	11.1	11.0	10.9	10.7
-60°	10.3	10.4	10.4	10.4	10.4	10.4	10.3	10.2	10.2	10.0	9.9
-62.5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
-65°	9.5	9.6	9.6	9.6	9.6	9.6	9.5	9.5	9.4	9.3	9.2
-67.5°	8.6	8.7	8.7	8.7	8.7	8.7	8.6	8.6	8.5	8.4	8.3
-70°	7.7	7.8	7.8	7.8	7.8	7.8	7.7	7.7	7.6	7.5	7.5
-72.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
-75°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.8	6.8	6.7	6.7
-77.5°	6.0	6.1	6.1	6.1	6.1	6.1	6.0	6.0	5.9	5.8	5.7
-80°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.2	4.2	4.2
-82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.4
-85°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.4
-87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
-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: P220331 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 1002-[A1, P1, S1, SU1]-[RW, RI]-LED3590-W-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	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.6
85°	2.4	2.3	2.3	2.2	2.1	2.1	2.0	1.9	1.8	1.7	1.6
82.5°	3.3	3.3	3.2	3.2	3.1	3.1	3.0	2.9	2.9	2.8	2.7
80°	4.1	4.1	4.0	3.9	3.9	3.8	3.7	3.6	3.5	3.4	3.3
77.5°	5.5	5.4	5.2	5.1	4.9	4.7	4.5	4.3	4.2	4.0	3.9
75°	6.6	6.5	6.4	6.3	6.2	6.1	5.9	5.6	5.3	5.0	4.7
72.5°	6.9	6.9	6.9	6.9	6.9	6.8	6.7	6.5	6.4	6.2	5.9
70°	7.3	7.2	7.1	7.0	6.9	6.9	6.9	6.9	6.9	6.8	6.6
67.5°	8.2	8.1	7.9	7.7	7.6	7.4	7.2	7.0	6.9	6.9	6.9
65°	9.0	8.9	8.7	8.5	8.3	8.1	7.9	7.7	7.4	7.1	6.9
62.5°	9.6	9.6	9.5	9.3	9.1	8.9	8.6	8.3	8.1	7.8	7.5
60°	9.8	9.6	9.6	9.6	9.6	9.6	9.3	9.0	8.7	8.4	8.1
57.5°	10.5	10.3	10.1	9.9	9.7	9.6	9.6	9.6	9.3	9.0	8.6
55°	11.3	11.1	10.9	10.6	10.3	10.1	9.8	9.6	9.6	9.6	9.2
52.5°	12.2	11.9	11.7	11.4	11.1	10.7	10.4	10.0	9.7	9.6	9.6
50°	12.9	12.7	12.4	12.1	11.8	11.4	11.0	10.6	10.2	9.9	9.6
47.5°	23.6	19.2	14.4	12.8	12.5	12.1	11.7	11.3	10.8	10.4	9.9
45°	47.4	36.8	26.1	20.5	14.5	12.7	12.3	11.9	11.4	10.9	10.4
42.5°	77.5	64.4	51.0	37.4	25.1	18.3	12.9	12.5	12.0	11.5	10.9
40°	107.6	94.5	79.1	62.5	46.4	30.0	20.6	13.0	12.5	12.0	11.4
37.5°	137.5	122.0	106.7	89.9	71.0	51.9	33.6	21.4	13.0	12.5	11.9
35°	171.6	152.5	133.5	114.9	96.3	75.3	53.8	33.6	20.6	12.9	12.3
32.5°	213.1	188.5	162.7	140.9	119.1	98.3	75.3	51.9	30.0	18.3	12.7
30°	260.4	229.5	198.9	168.8	143.5	119.1	96.3	71.0	46.4	25.1	14.5
27.5°	311.4	273.7	238.0	202.4	168.8	140.9	114.9	89.9	62.5	37.4	20.5
25°	365.4	321.9	278.7	238.0	198.9	162.7	133.5	106.7	79.1	51.0	26.1
22.5°	421.2	371.7	321.9	273.7	229.5	188.5	152.5	122.0	94.5	64.4	36.8
20°	480.7	421.2	365.4	311.4	260.4	213.1	171.6	137.5	107.6	77.5	47.4
17.5°	527.7	472.5	407.8	347.0	290.9	239.0	192.3	152.3	119.4	89.3	57.0
15°	565.5	514.6	448.1	382.4	319.6	262.4	210.7	165.5	130.3	99.2	66.5
12.5°	597.1	547.0	487.2	413.4	345.5	284.1	228.7	180.2	140.7	107.5	74.7
10°	624.3	572.5	515.1	440.7	369.4	303.4	244.3	192.4	149.3	114.4	81.5
7.5°	647.5	592.4	536.0	465.1	388.4	318.7	256.6	202.0	156.1	119.8	86.8
5°	664.2	606.7	549.8	482.9	402.3	329.8	265.6	209.0	161.0	123.7	90.7
2.5°	674.1	615.8	558.3	492.1	410.7	336.5	271.0	213.2	164.0	126.0	93.0
0°	677.5	618.9	561.1	495.2	413.5	338.8	272.8	214.6	165.0	126.8	93.8
-2.5°	674.1	615.8	558.3	492.1	410.7	336.5	271.0	213.2	164.0	126.0	93.0
-5°	664.2	606.7	549.8	482.9	402.3	329.8	265.6	209.0	161.0	123.7	90.7
-7.5°	647.5	592.4	536.0	465.1	388.4	318.7	256.6	202.0	156.1	119.8	86.8
-10°	624.3	572.5	515.1	440.7	369.4	303.4	244.3	192.4	149.3	114.4	81.5
-12.5°	597.1	547.0	487.2	413.4	345.5	284.1	228.7	180.2	140.7	107.5	74.7
-15°	565.5	514.6	448.1	382.4	319.6	262.4	210.7	165.5	130.3	99.2	66.5
-17.5°	527.7	472.5	407.8	347.0	290.9	239.0	192.3	152.3	119.4	89.3	57.0
-20°	480.7	421.2	365.4	311.4	260.4	213.1	171.6	137.5	107.6	77.5	47.4



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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°	421.2	371.7	321.9	273.7	229.5	188.5	152.5	122.0	94.5	64.4	36.8
-25°	365.4	321.9	278.7	238.0	198.9	162.7	133.5	106.7	79.1	51.0	26.1
-27.5°	311.4	273.7	238.0	202.4	168.8	140.9	114.9	89.9	62.5	37.4	20.5
-30°	260.4	229.5	198.9	168.8	143.5	119.1	96.3	71.0	46.4	25.1	14.5
-32.5°	213.1	188.5	162.7	140.9	119.1	98.3	75.3	51.9	30.0	18.3	12.7
-35°	171.6	152.5	133.5	114.9	96.3	75.3	53.8	33.6	20.6	12.9	12.3
-37.5°	137.5	122.0	106.7	89.9	71.0	51.9	33.6	21.4	13.0	12.5	11.9
-40°	107.6	94.5	79.1	62.5	46.4	30.0	20.6	13.0	12.5	12.0	11.4
-42.5°	77.5	64.4	51.0	37.4	25.1	18.3	12.9	12.5	12.0	11.5	10.9
-45°	47.4	36.8	26.1	20.5	14.5	12.7	12.3	11.9	11.4	10.9	10.4
-47.5°	23.6	19.2	14.4	12.8	12.5	12.1	11.7	11.3	10.8	10.4	9.9
-50°	12.9	12.7	12.4	12.1	11.8	11.4	11.0	10.6	10.2	9.9	9.6
-52.5°	12.2	11.9	11.7	11.4	11.1	10.7	10.4	10.0	9.7	9.6	9.6
-55°	11.3	11.1	10.9	10.6	10.3	10.1	9.8	9.6	9.6	9.6	9.2
-57.5°	10.5	10.3	10.1	9.9	9.7	9.6	9.6	9.6	9.3	9.0	8.6
-60°	9.8	9.6	9.6	9.6	9.6	9.6	9.3	9.0	8.7	8.4	8.1
-62.5°	9.6	9.6	9.5	9.3	9.1	8.9	8.6	8.3	8.1	7.8	7.5
-65°	9.0	8.9	8.7	8.5	8.3	8.1	7.9	7.7	7.4	7.1	6.9
-67.5°	8.2	8.1	7.9	7.7	7.6	7.4	7.2	7.0	6.9	6.9	6.9
-70°	7.3	7.2	7.1	7.0	6.9	6.9	6.9	6.9	6.9	6.8	6.6
-72.5°	6.9	6.9	6.9	6.9	6.9	6.8	6.7	6.5	6.4	6.2	5.9
-75°	6.6	6.5	6.4	6.3	6.2	6.1	5.9	5.6	5.3	5.0	4.7
-77.5°	5.5	5.4	5.2	5.1	4.9	4.7	4.5	4.3	4.2	4.0	3.9
-80°	4.1	4.1	4.0	3.9	3.9	3.8	3.7	3.6	3.5	3.4	3.3
-82.5°	3.3	3.3	3.2	3.2	3.1	3.1	3.0	2.9	2.9	2.8	2.7
-85°	2.4	2.3	2.3	2.2	2.1	2.1	2.0	1.9	1.8	1.7	1.6
-87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	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



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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°	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3
85°	1.5	1.4	1.3	1.1	1.0	0.9	0.8	0.8	0.7	0.6	0.5
82.5°	2.6	2.5	2.3	2.1	1.9	1.7	1.5	1.4	1.1	0.9	0.8
80°	3.2	3.1	3.0	2.9	2.7	2.6	2.3	2.1	1.8	1.5	1.2
77.5°	3.8	3.7	3.5	3.4	3.2	3.0	2.9	2.7	2.4	2.1	1.7
75°	4.4	4.2	4.0	3.8	3.7	3.5	3.3	3.1	2.8	2.6	2.2
72.5°	5.5	5.1	4.7	4.3	4.1	3.9	3.7	3.4	3.2	2.9	2.7
70°	6.4	6.2	5.8	5.2	4.7	4.3	4.0	3.8	3.5	3.2	2.9
67.5°	6.9	6.7	6.4	6.2	5.6	5.0	4.4	4.1	3.8	3.5	3.2
65°	6.9	6.9	6.9	6.6	6.3	5.9	5.2	4.5	4.1	3.8	3.4
62.5°	7.1	6.9	6.9	6.9	6.7	6.4	6.0	5.2	4.4	4.0	3.7
60°	7.7	7.3	7.0	6.9	6.9	6.7	6.4	5.9	5.0	4.3	3.9
57.5°	8.3	7.9	7.5	7.1	6.9	6.9	6.7	6.3	5.6	4.7	4.1
55°	8.8	8.4	8.0	7.5	7.1	6.9	6.9	6.6	6.2	5.2	4.3
52.5°	9.3	8.9	8.4	8.0	7.5	7.0	6.9	6.9	6.4	5.8	4.7
50°	9.6	9.4	8.9	8.4	7.9	7.3	6.9	6.9	6.7	6.2	5.1
47.5°	9.6	9.6	9.3	8.8	8.3	7.7	7.1	6.9	6.9	6.4	5.5
45°	9.9	9.6	9.6	9.2	8.6	8.1	7.5	6.9	6.9	6.6	5.9
42.5°	10.4	9.9	9.6	9.6	9.0	8.4	7.8	7.1	6.9	6.8	6.2
40°	10.8	10.2	9.7	9.6	9.3	8.7	8.1	7.4	6.9	6.9	6.4
37.5°	11.3	10.6	10.0	9.6	9.6	9.0	8.3	7.7	7.0	6.9	6.5
35°	11.7	11.0	10.4	9.8	9.6	9.3	8.6	7.9	7.2	6.9	6.7
32.5°	12.1	11.4	10.7	10.1	9.6	9.6	8.9	8.1	7.4	6.9	6.8
30°	12.5	11.8	11.1	10.3	9.7	9.6	9.1	8.3	7.6	6.9	6.9
27.5°	12.8	12.1	11.4	10.6	9.9	9.6	9.3	8.5	7.7	7.0	6.9
25°	14.4	12.4	11.7	10.9	10.1	9.6	9.5	8.7	7.9	7.1	6.9
22.5°	19.2	12.7	11.9	11.1	10.3	9.6	9.6	8.9	8.1	7.2	6.9
20°	23.6	12.9	12.2	11.3	10.5	9.8	9.6	9.0	8.2	7.3	6.9
17.5°	28.3	14.7	12.4	11.5	10.7	9.9	9.6	9.2	8.3	7.5	6.9
15°	36.1	17.9	12.5	11.7	10.9	10.0	9.6	9.3	8.4	7.5	6.9
12.5°	42.8	20.6	12.7	11.9	11.0	10.2	9.6	9.4	8.5	7.6	6.9
10°	48.3	22.9	12.8	12.0	11.1	10.2	9.6	9.5	8.6	7.7	6.9
7.5°	52.6	24.6	12.9	12.1	11.2	10.3	9.6	9.5	8.6	7.7	6.9
5°	55.7	25.9	12.9	12.1	11.3	10.4	9.6	9.6	8.7	7.8	6.9
2.5°	57.6	26.6	13.0	12.2	11.3	10.4	9.6	9.6	8.7	7.8	6.9
0°	58.2	26.9	13.0	12.2	11.3	10.4	9.6	9.6	8.7	7.8	6.9
-2.5°	57.6	26.6	13.0	12.2	11.3	10.4	9.6	9.6	8.7	7.8	6.9
-5°	55.7	25.9	12.9	12.1	11.3	10.4	9.6	9.6	8.7	7.8	6.9
-7.5°	52.6	24.6	12.9	12.1	11.2	10.3	9.6	9.5	8.6	7.7	6.9
-10°	48.3	22.9	12.8	12.0	11.1	10.2	9.6	9.5	8.6	7.7	6.9
-12.5°	42.8	20.6	12.7	11.9	11.0	10.2	9.6	9.4	8.5	7.6	6.9
-15°	36.1	17.9	12.5	11.7	10.9	10.0	9.6	9.3	8.4	7.5	6.9
-17.5°	28.3	14.7	12.4	11.5	10.7	9.9	9.6	9.2	8.3	7.5	6.9
-20°	23.6	12.9	12.2	11.3	10.5	9.8	9.6	9.0	8.2	7.3	6.9



REPORT NUMBER: P220331 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	19.2	12.7	11.9	11.1	10.3	9.6	9.6	8.9	8.1	7.2	6.9
-25°	14.4	12.4	11.7	10.9	10.1	9.6	9.5	8.7	7.9	7.1	6.9
-27.5°	12.8	12.1	11.4	10.6	9.9	9.6	9.3	8.5	7.7	7.0	6.9
-30°	12.5	11.8	11.1	10.3	9.7	9.6	9.1	8.3	7.6	6.9	6.9
-32.5°	12.1	11.4	10.7	10.1	9.6	9.6	8.9	8.1	7.4	6.9	6.8
-35°	11.7	11.0	10.4	9.8	9.6	9.3	8.6	7.9	7.2	6.9	6.7
-37.5°	11.3	10.6	10.0	9.6	9.6	9.0	8.3	7.7	7.0	6.9	6.5
-40°	10.8	10.2	9.7	9.6	9.3	8.7	8.1	7.4	6.9	6.9	6.4
-42.5°	10.4	9.9	9.6	9.6	9.0	8.4	7.8	7.1	6.9	6.8	6.2
-45°	9.9	9.6	9.6	9.2	8.6	8.1	7.5	6.9	6.9	6.6	5.9
-47.5°	9.6	9.6	9.3	8.8	8.3	7.7	7.1	6.9	6.9	6.4	5.5
-50°	9.6	9.4	8.9	8.4	7.9	7.3	6.9	6.9	6.7	6.2	5.1
-52.5°	9.3	8.9	8.4	8.0	7.5	7.0	6.9	6.9	6.4	5.8	4.7
-55°	8.8	8.4	8.0	7.5	7.1	6.9	6.9	6.6	6.2	5.2	4.3
-57.5°	8.3	7.9	7.5	7.1	6.9	6.9	6.7	6.3	5.6	4.7	4.1
-60°	7.7	7.3	7.0	6.9	6.9	6.7	6.4	5.9	5.0	4.3	3.9
-62.5°	7.1	6.9	6.9	6.9	6.7	6.4	6.0	5.2	4.4	4.0	3.7
-65°	6.9	6.9	6.9	6.6	6.3	5.9	5.2	4.5	4.1	3.8	3.4
-67.5°	6.9	6.7	6.4	6.2	5.6	5.0	4.4	4.1	3.8	3.5	3.2
-70°	6.4	6.2	5.8	5.2	4.7	4.3	4.0	3.8	3.5	3.2	2.9
-72.5°	5.5	5.1	4.7	4.3	4.1	3.9	3.7	3.4	3.2	2.9	2.7
-75°	4.4	4.2	4.0	3.8	3.7	3.5	3.3	3.1	2.8	2.6	2.2
-77.5°	3.8	3.7	3.5	3.4	3.2	3.0	2.9	2.7	2.4	2.1	1.7
-80°	3.2	3.1	3.0	2.9	2.7	2.6	2.3	2.1	1.8	1.5	1.2
-82.5°	2.6	2.5	2.3	2.1	1.9	1.7	1.5	1.4	1.1	0.9	0.8
-85°	1.5	1.4	1.3	1.1	1.0	0.9	0.8	0.8	0.7	0.6	0.5
-87.5°	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	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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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	0.2	0.1	0.1	0.0	0.0
85°	0.5	0.4	0.3	0.2	0.2	0.1	0.0
82.5°	0.7	0.6	0.5	0.4	0.2	0.1	0.0
80°	1.0	0.8	0.6	0.5	0.3	0.2	0.0
77.5°	1.4	1.0	0.8	0.6	0.4	0.2	0.0
75°	1.8	1.4	1.0	0.7	0.5	0.2	0.0
72.5°	2.2	1.7	1.2	0.8	0.5	0.3	0.0
70°	2.6	2.1	1.5	0.9	0.6	0.3	0.0
67.5°	2.8	2.4	1.8	1.1	0.7	0.3	0.0
65°	3.1	2.7	2.1	1.4	0.8	0.4	0.0
62.5°	3.3	2.9	2.3	1.5	0.8	0.4	0.0
60°	3.5	3.0	2.6	1.7	0.9	0.4	0.0
57.5°	3.7	3.2	2.7	1.9	1.0	0.5	0.0
55°	3.8	3.4	2.9	2.1	1.1	0.5	0.0
52.5°	4.0	3.5	3.0	2.3	1.3	0.5	0.0
50°	4.2	3.7	3.1	2.5	1.4	0.6	0.0
47.5°	4.4	3.8	3.2	2.6	1.5	0.6	0.0
45°	4.7	3.9	3.3	2.7	1.6	0.6	0.0
42.5°	5.0	4.0	3.4	2.8	1.7	0.7	0.0
40°	5.3	4.2	3.5	2.9	1.8	0.7	0.0
37.5°	5.6	4.3	3.6	2.9	1.9	0.7	0.0
35°	5.9	4.5	3.7	3.0	2.0	0.7	0.0
32.5°	6.1	4.7	3.8	3.1	2.1	0.8	0.0
30°	6.2	4.9	3.9	3.1	2.1	0.8	0.0
27.5°	6.3	5.1	3.9	3.2	2.2	0.8	0.0
25°	6.4	5.2	4.0	3.2	2.3	0.8	0.0
22.5°	6.5	5.4	4.1	3.3	2.3	0.8	0.0
20°	6.6	5.5	4.1	3.3	2.4	0.8	0.0
17.5°	6.7	5.7	4.2	3.4	2.4	0.9	0.0
15°	6.7	5.8	4.2	3.4	2.5	0.9	0.0
12.5°	6.8	5.9	4.2	3.4	2.5	0.9	0.0
10°	6.8	6.0	4.3	3.5	2.5	0.9	0.0
7.5°	6.9	6.0	4.3	3.5	2.6	0.9	0.0
5°	6.9	6.1	4.3	3.5	2.6	0.9	0.0
2.5°	6.9	6.1	4.3	3.5	2.6	0.9	0.0
0°	6.9	6.1	4.3	3.5	2.6	0.9	0.0
-2.5°	6.9	6.1	4.3	3.5	2.6	0.9	0.0
-5°	6.9	6.1	4.3	3.5	2.6	0.9	0.0
-7.5°	6.9	6.0	4.3	3.5	2.6	0.9	0.0
-10°	6.8	6.0	4.3	3.5	2.5	0.9	0.0
-12.5°	6.8	5.9	4.2	3.4	2.5	0.9	0.0
-15°	6.7	5.8	4.2	3.4	2.5	0.9	0.0
-17.5°	6.7	5.7	4.2	3.4	2.4	0.9	0.0
-20°	6.6	5.5	4.1	3.3	2.4	0.8	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	6.5	5.4	4.1	3.3	2.3	0.8	0.0
-25°	6.4	5.2	4.0	3.2	2.3	0.8	0.0
-27.5°	6.3	5.1	3.9	3.2	2.2	0.8	0.0
-30°	6.2	4.9	3.9	3.1	2.1	0.8	0.0
-32.5°	6.1	4.7	3.8	3.1	2.1	0.8	0.0
-35°	5.9	4.5	3.7	3.0	2.0	0.7	0.0
-37.5°	5.6	4.3	3.6	2.9	1.9	0.7	0.0
-40°	5.3	4.2	3.5	2.9	1.8	0.7	0.0
-42.5°	5.0	4.0	3.4	2.8	1.7	0.7	0.0
-45°	4.7	3.9	3.3	2.7	1.6	0.6	0.0
-47.5°	4.4	3.8	3.2	2.6	1.5	0.6	0.0
-50°	4.2	3.7	3.1	2.5	1.4	0.6	0.0
-52.5°	4.0	3.5	3.0	2.3	1.3	0.5	0.0
-55°	3.8	3.4	2.9	2.1	1.1	0.5	0.0
-57.5°	3.7	3.2	2.7	1.9	1.0	0.5	0.0
-60°	3.5	3.0	2.6	1.7	0.9	0.4	0.0
-62.5°	3.3	2.9	2.3	1.5	0.8	0.4	0.0
-65°	3.1	2.7	2.1	1.4	0.8	0.4	0.0
-67.5°	2.8	2.4	1.8	1.1	0.7	0.3	0.0
-70°	2.6	2.1	1.5	0.9	0.6	0.3	0.0
-72.5°	2.2	1.7	1.2	0.8	0.5	0.3	0.0
-75°	1.8	1.4	1.0	0.7	0.5	0.2	0.0
-77.5°	1.4	1.0	0.8	0.6	0.4	0.2	0.0
-80°	1.0	0.8	0.6	0.5	0.3	0.2	0.0
-82.5°	0.7	0.6	0.5	0.4	0.2	0.1	0.0
-85°	0.5	0.4	0.3	0.2	0.2	0.1	0.0
-87.5°	0.2	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)