

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: EPHESUS

Report Number: P731432 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-80-2S-CV5**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731432 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-9)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-57-80-2S-CV5
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 2S BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

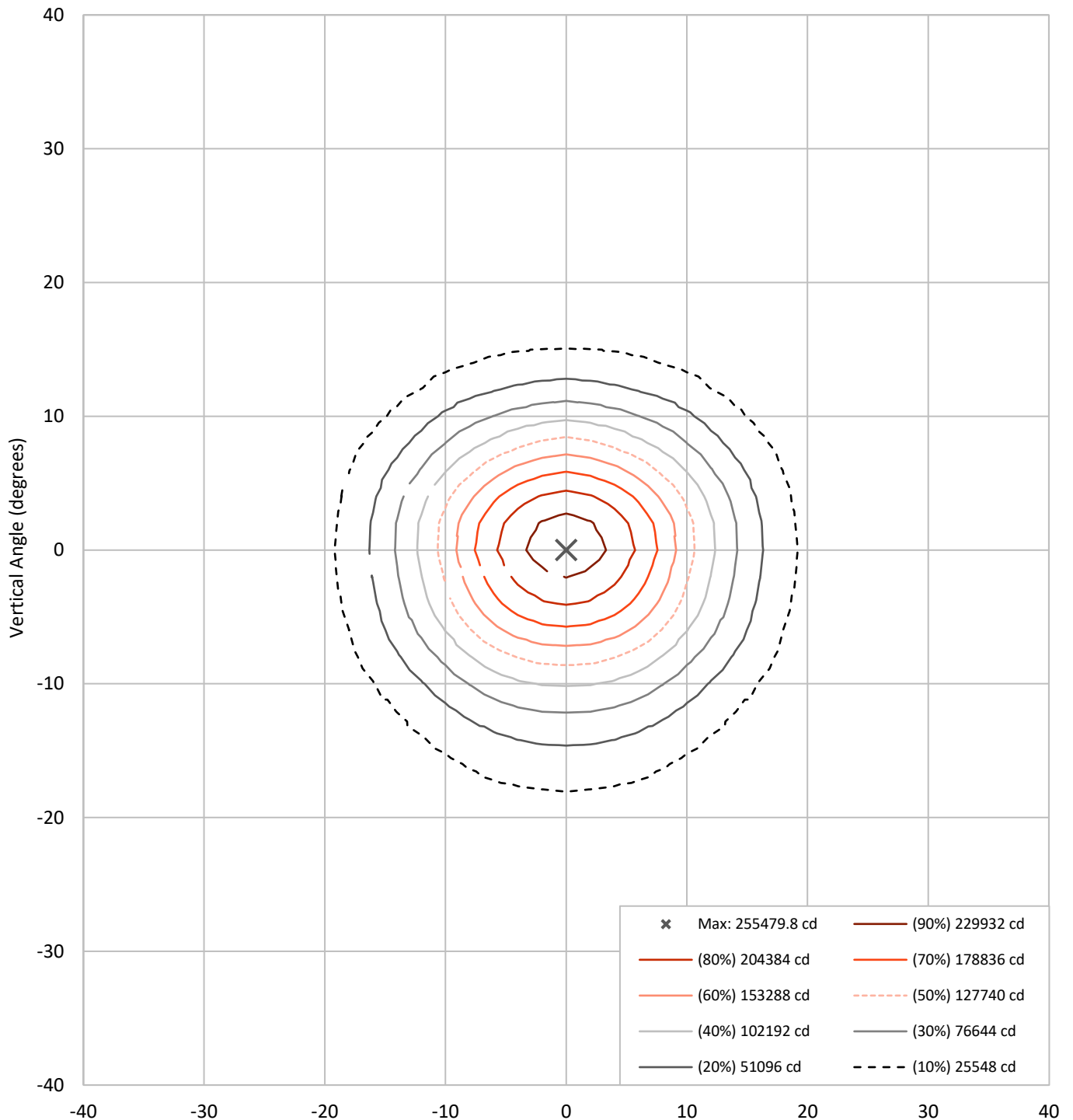
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	34459 lumens	Max Intensity:	255479.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	98.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	21.3°H x 17°V	Field Angle (10%):	38.4°H x 32.9°V
Beam Lumens:	15080.1 lumens	Field Lumens:	29188.6 lumens
Beam Efficiency:	43.8%	Field Efficiency:	84.7%

Input Watts (W): 348.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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CATALOG NUMBER: EPH-LS-08-0320N-57-80-2S-CV5

Iso-Candela Plot





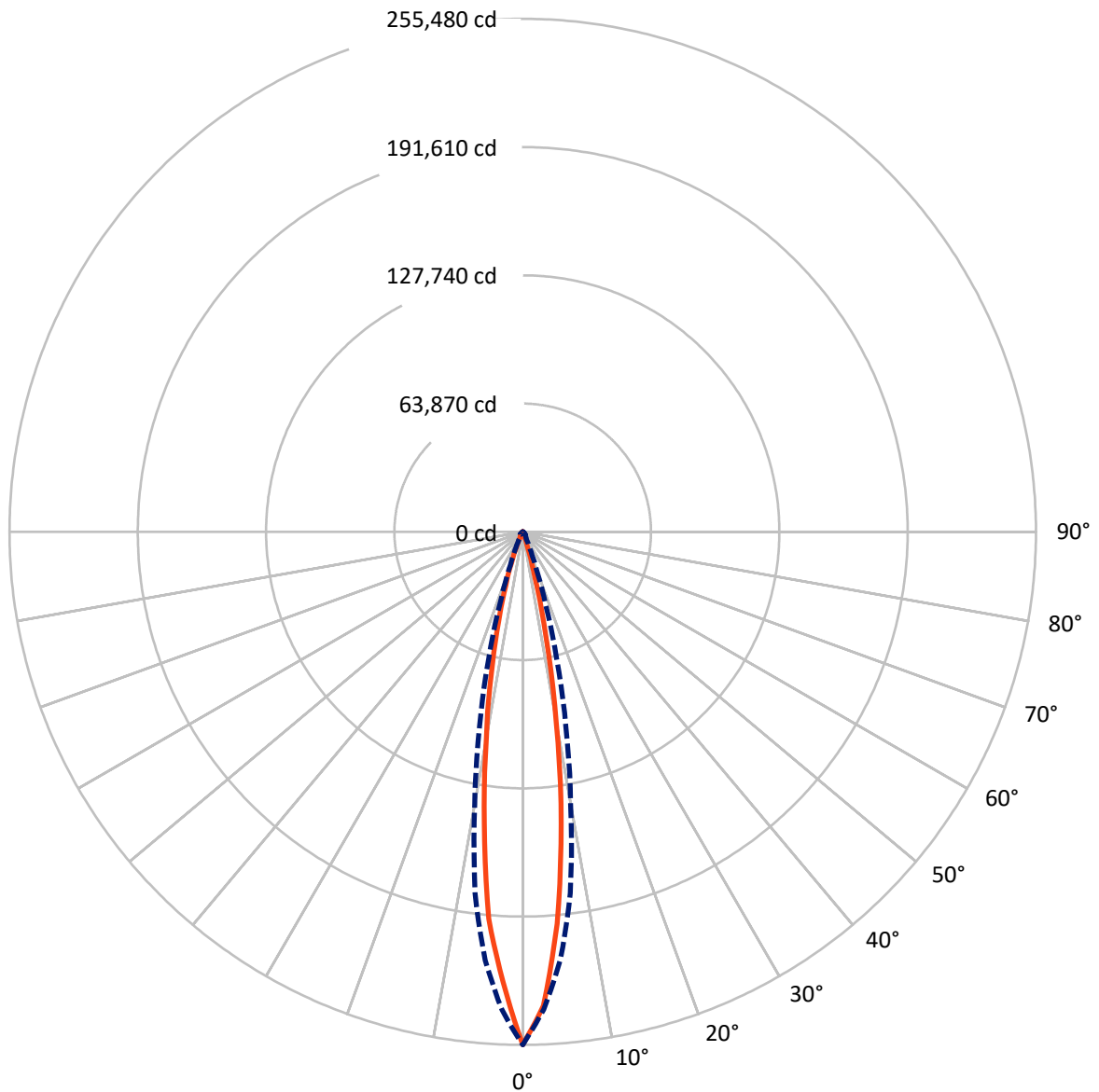
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Lumen Table

90	0.1		0.3		0.4		0.4		0.5		0.4		0.4		0.3		0.1	
80	0.1		0.3		0.4		0.4		0.5		0.4		0.4		0.3		0.1	
70	0.1	0.1	0.1	0.4	0.4	0.2	0.1	0.1	0.1	0.1	0.2	0.4	0.4	0.1	0.1	0.1		
60		0.1	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.1			
50	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.1		
40		0.1	0.3	0.5	0.9	1.3	1.5	1.7	1.7	1.5	1.3	0.9	0.5	0.3	0.1			
30	0.2	0.3	0.9	2.2	4.3	5.5	9.8	20.7	20.7	9.8	5.5	4.3	2.2	0.9	0.3	0.2		
20		0.7	3.2	10.6	22.1	40.2	277.2	853.9	853.9	277.2	40.2	22.1	10.6	3.2	0.7			
10	0.2	1.2	6.6	25.8	51.6	164.0	1600.6	4757.8	4757.8	1600.6	164.0	51.6	25.8	6.6	1.2	0.2		
0		1.6	7.8	30.1	58.9	171.1	1633.7	4783.5	4783.5	1633.7	171.1	58.9	30.1	7.8	1.6			
-10	0.4	1.7	6.8	22.5	45.5	73.8	451.1	1340.1	1340.1	451.1	73.8	45.5	22.5	6.8	1.7	0.4		
-20		1.6	5.7	13.3	33.9	48.1	72.7	152.6	152.6	72.7	48.1	33.9	13.3	5.7	1.6			
-30	0.3	1.4	4.7	9.2	20.7	39.7	50.5	54.3	54.3	50.5	39.7	20.7	9.2	4.7	1.4	0.3		
-40		1.0	3.4	7.4	12.5	20.3	33.0	42.9	42.9	33.0	20.3	12.5	7.4	3.4	1.0			
-50	0.2	0.5	2.0	4.7	8.5	12.4	15.3	17.0	17.0	15.3	12.4	8.5	4.7	2.0	0.5	0.2		
-60		0.2	0.7	2.0	3.8	5.8	7.9	9.2	9.2	7.9	5.8	3.8	2.0	0.7	0.2			
-70	0.1	0.6	1.7	4.3	6.7	4.3	1.7	0.6	0.1	0.1								
-80		0.1	0.6	1.7	4.3	6.7	4.3	1.7	0.6		0.1							
-90	0.1		0.6		1.7		4.3		6.7		4.3		1.7		0.6		0.1	

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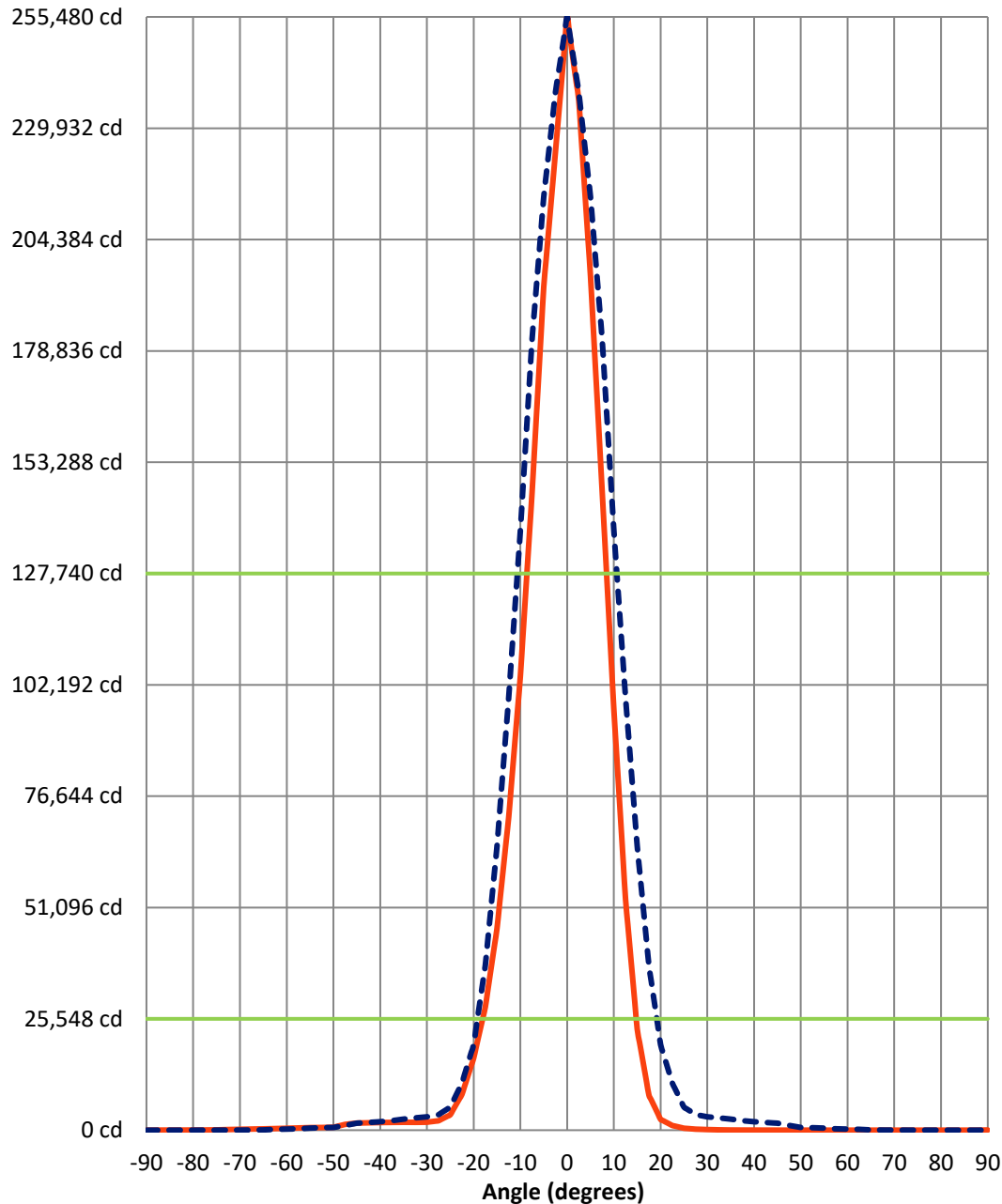
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 21.3°
 V Angle: 17°
 Lumens: 15080.1
 Efficiency: 43.8%

Field:
 H Angle: 38.4°
 V Angle: 32.9°
 Lumens: 29188.6
 Efficiency: 84.7%

Spill:
 Lumens: 5270.4
 Efficiency: 15.3%

— 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°	4.3	4.3	4.3	4.6	4.8	5.1	5.3	5.6	5.9	6.1	6.4
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.1	3.9	3.8	3.7
85°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.2	4.1	4.1	4.1
82.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
80°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
75°	4.3	4.3	4.3	4.3	4.3	4.4	4.3	4.3	4.3	4.3	4.3
72.5°	4.3	4.3	4.3	4.3	4.4	4.5	4.4	4.3	4.3	4.3	4.3
70°	4.3	4.3	4.3	4.3	4.5	4.5	4.4	4.3	4.3	4.3	4.3
67.5°	4.3	4.3	4.3	4.4	4.6	4.6	4.4	4.3	4.3	4.4	4.4
65°	4.3	4.3	4.3	4.5	4.7	4.7	4.4	4.3	4.5	4.6	4.5
62.5°	4.3	4.3	4.3	4.6	4.8	4.7	4.5	4.5	4.8	4.8	4.6
60°	4.3	4.3	4.3	4.7	4.9	4.7	4.5	4.7	5.0	4.8	4.6
57.5°	4.3	4.3	4.4	4.8	5.0	4.7	4.7	5.0	5.1	4.9	4.9
55°	4.3	4.3	4.4	4.9	5.0	4.8	5.0	5.3	5.1	5.0	5.3
52.5°	4.3	4.3	4.5	5.0	5.0	4.8	5.2	5.4	5.2	5.4	5.8
50°	4.3	4.3	4.6	5.2	5.0	5.0	5.5	5.5	5.3	5.8	6.7
47.5°	4.3	4.3	4.7	5.2	5.1	5.3	5.7	5.6	5.7	6.2	7.4
45°	4.3	4.3	4.7	5.3	5.1	5.5	5.9	5.8	6.1	6.7	8.0
42.5°	4.3	4.3	4.8	5.3	5.1	5.7	6.0	6.1	6.5	7.0	8.9
40°	4.3	4.3	4.8	5.3	5.2	5.9	6.2	6.4	6.9	7.3	9.6
37.5°	4.3	4.3	4.9	5.3	5.4	6.1	6.4	6.7	7.4	8.0	10.3
35°	4.3	4.3	4.9	5.4	5.5	6.2	6.6	7.1	7.9	9.1	10.7
32.5°	4.3	4.3	5.0	5.4	5.7	6.4	6.8	7.4	8.5	10.3	11.6
30°	4.3	4.3	5.0	5.5	5.8	6.5	7.0	7.8	9.2	11.4	12.7
27.5°	4.3	4.3	5.1	5.5	5.9	6.7	7.3	8.3	10.0	12.6	14.0
25°	4.3	4.3	5.1	5.6	6.0	6.9	7.6	8.8	10.9	13.7	15.5
22.5°	4.3	4.3	5.1	5.7	6.1	7.0	7.8	9.4	11.9	14.8	18.4
20°	4.3	4.3	5.2	5.7	6.2	7.1	8.0	9.9	12.8	16.0	21.6
17.5°	4.3	4.3	5.2	5.8	6.3	7.2	8.2	10.5	13.7	17.3	25.1
15°	4.3	4.3	5.2	5.9	6.3	7.2	8.4	11.0	14.5	18.6	28.8
12.5°	4.3	4.3	5.3	6.0	6.4	7.3	8.7	11.4	15.3	20.0	32.5
10°	4.3	4.3	5.3	6.1	6.4	7.3	8.9	11.8	16.2	22.2	37.0
7.5°	4.3	4.3	5.3	6.2	6.4	7.4	9.1	12.1	17.0	24.7	42.9
5°	4.3	4.3	5.3	6.2	6.4	7.4	9.3	12.4	17.8	27.2	48.7
2.5°	4.3	4.3	5.3	6.3	6.4	7.4	9.4	12.6	18.5	29.6	54.3
0°	4.3	4.3	5.3	6.4	6.4	7.4	9.6	12.8	19.1	31.9	59.5
-2.5°	4.3	4.3	5.3	6.5	6.6	7.6	10.4	15.3	24.1	39.5	69.1
-5°	4.3	4.3	5.4	6.5	6.8	7.9	11.2	17.6	28.8	46.7	78.1
-7.5°	4.3	4.4	5.4	6.6	6.9	8.1	11.9	19.8	33.3	53.4	86.2
-10°	4.3	4.4	5.5	6.6	7.1	8.3	12.5	21.8	37.3	59.5	93.6
-12.5°	4.3	4.4	5.5	6.7	7.3	8.5	13.1	23.4	40.7	64.9	99.9
-15°	4.3	4.4	5.5	6.7	7.4	8.7	13.5	24.6	43.8	69.6	105.1
-17.5°	4.3	4.4	5.5	6.7	7.5	8.8	13.7	25.9	46.6	73.4	109.1
-20°	4.3	4.5	5.6	6.7	7.7	9.0	14.0	27.1	48.6	76.5	112.0



REPORT NUMBER: P731432 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-2S-CV5

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.3	4.5	5.6	6.7	7.8	9.1	14.3	27.7	50.0	78.7	113.6
-25°	4.3	4.5	5.6	6.7	7.8	9.3	14.4	27.7	50.5	80.0	113.9
-27.5°	4.3	4.5	5.6	6.7	7.9	9.5	14.2	27.0	50.2	80.4	114.9
-30°	4.3	4.5	5.6	6.7	7.9	9.6	13.6	25.6	49.3	79.8	114.7
-32.5°	4.3	4.5	5.6	6.7	8.0	9.7	12.8	24.7	47.6	78.1	113.3
-35°	4.3	4.5	5.5	6.7	8.0	9.6	12.5	23.6	44.9	75.1	110.7
-37.5°	4.3	4.5	5.5	6.7	8.0	9.6	12.5	22.1	41.2	70.9	102.9
-40°	4.3	4.5	5.5	6.7	7.9	9.6	12.3	20.1	36.5	65.8	93.9
-42.5°	4.3	4.5	5.5	6.6	7.9	9.5	12.1	17.6	32.7	57.5	83.9
-45°	4.3	4.6	5.5	6.6	7.9	9.4	11.7	15.7	29.2	48.4	73.1
-47.5°	4.3	4.5	5.4	6.5	7.8	9.3	11.3	15.1	25.1	38.8	62.3
-50°	4.3	4.5	5.4	6.5	7.7	9.2	11.0	14.3	19.8	32.8	50.8
-52.5°	4.3	4.5	5.3	6.4	7.6	9.0	10.8	13.5	17.2	26.5	39.2
-55°	4.3	4.5	5.3	6.3	7.5	8.9	10.6	12.5	15.8	20.0	31.8
-57.5°	4.3	4.5	5.2	6.2	7.3	8.7	10.3	12.1	14.4	17.3	24.2
-60°	4.3	4.5	5.2	6.1	7.2	8.4	9.9	11.7	13.2	15.8	18.3
-62.5°	4.3	4.5	5.1	6.0	7.0	8.2	9.6	11.1	12.5	14.2	16.6
-65°	4.3	4.5	5.1	5.8	6.8	7.9	9.2	10.5	11.8	13.2	15.0
-67.5°	4.3	4.5	5.0	5.7	6.6	7.6	8.8	10.0	11.0	12.3	13.7
-70°	4.3	4.5	4.9	5.6	6.3	7.3	8.4	9.5	10.5	11.3	12.5
-72.5°	4.3	4.4	4.9	5.4	6.1	6.9	7.9	9.0	10.0	10.8	11.5
-75°	4.3	4.4	4.8	5.3	5.9	6.6	7.4	8.5	9.5	10.3	11.0
-77.5°	4.3	4.4	4.7	5.2	5.7	6.2	7.0	7.9	8.8	9.8	10.6
-80°	4.3	4.4	4.6	5.1	5.5	6.0	6.4	7.3	8.2	9.0	9.9
-82.5°	4.3	4.4	4.6	4.9	5.3	5.7	6.1	6.8	7.5	8.2	9.0
-85°	4.3	4.3	4.5	4.8	5.2	5.5	5.9	6.4	6.9	7.5	8.2
-87.5°	4.3	4.3	4.4	4.7	5.0	5.3	5.6	6.0	6.4	6.8	7.3
-90°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.0	3.8	3.5	3.2



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 CATALOG NUMBER: EPH-LS-08-0320N-57-80-2S-CV5

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	6.4	6.4	6.4	6.4	6.7	6.9	7.2	7.4	7.7	7.9	8.2
87.5°	3.6	3.5	3.3	3.2	3.2	3.2	3.2	3.2	2.9	2.7	2.4
85°	4.0	3.8	3.5	3.4	3.4	3.4	3.3	3.2	3.1	2.9	2.9
82.5°	4.1	4.0	4.0	4.0	3.9	3.7	3.5	3.2	3.2	3.2	3.2
80°	4.3	4.3	4.3	4.3	4.1	3.8	3.5	3.2	3.2	3.2	3.3
77.5°	4.3	4.3	4.3	4.3	4.1	3.9	3.8	3.8	3.8	3.7	3.5
75°	4.3	4.3	4.3	4.3	4.2	4.2	4.3	4.3	4.2	4.1	4.1
72.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.2	6.3	7.1
70°	4.3	4.3	4.3	4.3	4.3	4.7	6.2	8.3	10.3	11.6	12.9
67.5°	4.3	4.3	4.3	4.5	5.6	7.3	9.6	14.1	19.2	20.7	20.6
65°	4.3	4.3	4.8	5.9	7.2	10.8	15.7	21.7	26.2	25.5	23.7
62.5°	4.3	4.8	5.7	7.6	10.5	15.0	19.6	23.9	28.4	27.2	23.1
60°	4.7	5.4	7.3	10.3	13.5	16.6	21.0	23.8	26.2	26.3	20.3
57.5°	5.2	6.6	9.5	12.6	15.1	17.1	18.9	21.1	21.8	21.3	15.5
55°	6.0	8.3	11.4	14.2	15.8	15.0	15.8	16.3	16.0	14.6	10.2
52.5°	7.4	9.9	12.9	15.2	15.2	13.4	11.9	11.9	10.9	8.9	7.6
50°	8.6	11.4	14.3	15.6	14.5	11.5	9.0	8.7	8.0	7.1	6.4
47.5°	9.7	12.8	15.4	15.9	13.0	10.5	8.3	7.5	7.1	7.0	6.6
45°	10.9	13.6	16.4	14.7	12.2	10.4	8.9	7.4	7.6	7.5	7.2
42.5°	11.9	14.2	15.4	13.7	12.4	11.3	10.1	9.1	8.5	8.7	8.6
40°	12.2	14.5	14.7	14.4	13.2	12.8	12.6	11.8	10.1	10.9	11.1
37.5°	12.4	14.4	15.0	16.2	14.9	15.3	15.9	16.1	14.9	14.1	16.1
35°	12.4	14.6	17.6	19.3	18.4	18.9	20.8	21.5	21.0	20.7	24.5
32.5°	12.7	15.4	21.2	23.1	24.4	25.1	26.7	28.2	29.6	32.0	39.3
30°	14.1	18.7	25.4	27.6	31.7	36.3	35.2	36.0	39.8	54.3	66.8
27.5°	17.2	23.2	29.6	34.2	41.0	50.8	52.3	48.0	60.6	82.6	103.1
25°	20.9	37.4	34.1	42.1	55.2	68.2	74.2	77.0	91.8	121.5	144.6
22.5°	28.8	56.3	55.0	50.8	71.4	88.5	103.4	133.0	174.7	184.1	189.0
20°	42.6	75.1	80.4	84.6	95.8	111.3	137.1	208.1	296.8	329.5	295.6
17.5°	59.0	95.6	108.9	128.3	153.8	158.7	179.9	297.6	450.3	503.6	513.9
15°	77.4	117.6	139.1	177.2	215.8	234.2	296.3	442.4	618.2	705.3	765.6
12.5°	97.2	140.7	170.7	230.1	281.2	310.2	442.6	665.4	834.2	935.9	1095.1
10°	117.7	164.4	203.1	285.6	348.8	386.2	604.3	895.7	1065.9	1181.5	1386.3
7.5°	139.0	187.3	235.2	342.4	417.5	461.8	774.5	1128.1	1291.4	1417.4	1623.7
5°	159.4	208.5	263.8	390.1	474.6	527.2	932.2	1356.1	1510.5	1644.1	1828.9
2.5°	178.1	228.6	291.5	433.9	522.5	576.5	1021.9	1486.4	1650.1	1809.1	2011.5
0°	194.5	247.7	317.8	474.1	567.6	623.9	1094.8	1599.7	1768.7	1942.0	2184.3
-2.5°	196.9	253.4	325.9	470.4	559.2	616.6	1075.7	1582.3	1787.7	1989.9	2242.9
-5°	196.8	257.7	331.9	463.0	548.2	607.2	1038.3	1542.4	1780.9	1981.3	2218.9
-7.5°	194.5	260.2	335.6	452.1	531.3	585.9	966.4	1444.2	1694.2	1870.9	2099.1
-10°	190.6	259.3	330.5	433.5	507.2	557.2	874.5	1328.2	1603.1	1758.0	1961.0
-12.5°	185.7	255.6	322.6	413.7	483.8	527.8	767.8	1196.8	1509.8	1645.9	1812.0
-15°	179.9	250.9	313.3	393.4	461.7	498.1	647.7	1051.9	1417.8	1559.1	1689.1
-17.5°	173.8	245.5	302.8	373.2	442.0	468.5	517.9	893.9	1286.7	1464.6	1596.3
-20°	167.8	239.3	291.1	353.9	423.3	449.1	481.1	741.9	1096.0	1355.4	1494.8



REPORT NUMBER: P731432 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	162.1	232.6	280.2	338.0	402.2	438.5	463.2	593.3	894.8	1233.4	1386.4
-25°	159.9	222.7	271.1	323.3	382.2	428.7	446.5	468.4	711.5	1035.9	1276.7
-27.5°	159.4	214.4	261.0	307.4	362.3	416.0	434.6	450.7	574.6	837.6	1149.7
-30°	157.3	203.1	249.7	291.6	343.2	393.5	425.4	443.2	471.1	674.2	934.0
-32.5°	150.4	191.1	236.4	278.1	323.3	371.9	417.8	439.6	462.4	518.3	736.0
-35°	141.5	180.2	222.2	263.4	303.0	350.9	398.0	436.7	453.9	479.9	570.6
-37.5°	133.1	168.1	207.7	247.5	285.9	329.1	376.8	420.2	450.2	470.4	502.8
-40°	123.5	154.9	193.1	231.3	268.1	307.4	351.7	396.6	437.2	471.8	496.7
-42.5°	112.9	143.1	177.5	214.4	249.0	286.2	325.4	368.8	414.9	462.4	497.7
-45°	100.8	130.2	161.1	194.7	228.2	263.1	300.2	339.2	385.9	434.3	481.4
-47.5°	87.6	115.9	145.3	173.6	205.5	238.4	273.0	311.2	352.5	398.3	446.8
-50°	73.8	100.1	127.5	153.7	181.3	212.0	244.0	280.5	319.0	359.1	402.6
-52.5°	60.4	83.2	108.6	133.8	158.3	184.4	214.4	247.3	282.7	319.8	356.1
-55°	46.2	67.1	88.8	112.6	136.2	158.8	183.9	213.4	243.8	277.4	309.6
-57.5°	35.5	50.7	69.9	90.2	112.4	134.7	157.1	179.5	206.2	234.2	260.7
-60°	26.6	37.1	51.4	69.2	87.5	108.4	130.4	151.5	172.0	191.3	214.1
-62.5°	18.8	27.0	36.6	48.6	64.8	81.4	100.4	120.6	141.3	158.0	173.3
-65°	17.0	18.9	25.4	34.1	42.7	57.3	72.4	87.4	105.0	121.2	136.4
-67.5°	15.3	17.0	18.6	21.6	29.4	37.8	46.2	59.5	72.6	84.2	95.7
-70°	13.9	15.1	16.5	18.0	19.6	23.2	30.5	37.9	45.2	53.7	63.9
-72.5°	12.6	13.8	14.8	15.7	17.1	18.8	20.6	22.5	26.7	32.6	38.7
-75°	11.7	12.5	13.6	14.5	15.3	16.3	17.5	19.0	20.5	21.7	22.9
-77.5°	11.0	11.6	12.3	13.2	13.9	14.4	15.1	16.0	17.0	18.1	19.3
-80°	10.3	10.6	11.0	11.5	12.0	12.4	12.8	13.2	13.8	14.6	15.4
-82.5°	9.3	9.5	9.8	10.0	10.2	10.4	10.7	11.0	11.3	11.7	12.1
-85°	8.3	8.5	8.7	8.8	8.7	8.7	8.7	8.7	8.9	9.1	9.3
-87.5°	7.4	7.4	7.5	7.6	7.6	7.6	7.5	7.4	7.5	7.5	7.6
-90°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.9	2.7	2.4



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	8.5	8.5	8.5	8.5	8.5	11.4	14.3	17.3	20.2	25.2	30.3
87.5°	2.1	2.1	2.1	2.1	2.1	1.9	1.6	1.4	1.1	1.1	1.1
85°	2.8	2.7	2.5	2.3	2.1	2.1	2.0	2.0	2.0	1.8	1.6
82.5°	3.2	2.9	2.7	2.4	2.1	1.9	1.7	1.5	1.2	1.2	1.1
80°	3.2	3.0	2.7	2.4	2.1	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	3.4	3.2	2.9	2.6	2.2	2.1	2.1	2.1	2.1	1.9	1.7
75°	4.2	4.1	4.0	3.7	3.3	3.1	2.9	2.6	2.2	2.1	2.1
72.5°	7.5	7.5	7.1	6.7	5.9	5.4	5.2	4.9	4.7	4.6	4.5
70°	13.4	13.1	12.3	10.9	8.9	7.5	6.9	6.3	5.6	5.3	5.2
67.5°	18.8	16.7	14.7	12.6	10.1	8.2	7.2	6.2	5.1	4.5	4.4
65°	20.9	16.7	13.8	11.5	9.7	7.9	6.5	5.3	4.1	3.6	3.7
62.5°	18.7	13.8	10.8	8.8	7.3	6.2	5.1	4.2	3.6	3.2	3.3
60°	14.9	10.1	7.4	6.2	5.2	4.4	3.8	3.3	2.8	2.5	2.6
57.5°	10.7	7.2	5.2	4.8	4.3	3.5	3.0	2.9	2.8	2.8	3.0
55°	7.3	6.0	5.3	4.8	4.2	3.6	3.2	3.2	3.2	3.2	3.2
52.5°	6.1	5.7	5.4	4.9	4.3	3.7	3.2	3.2	3.2	3.2	3.2
50°	6.1	5.8	5.5	5.1	4.5	3.9	3.3	3.3	3.6	3.8	3.8
47.5°	6.2	5.9	5.7	5.3	4.8	4.6	4.3	4.4	4.8	4.9	4.8
45°	6.5	6.5	6.4	6.4	6.0	6.1	6.1	6.2	7.6	7.5	6.6
42.5°	8.0	8.5	9.0	9.2	7.9	10.3	14.0	15.7	13.7	11.1	9.4
40°	12.0	12.6	15.1	16.3	20.1	23.6	20.4	16.5	14.8	16.0	17.0
37.5°	19.1	22.7	27.6	33.4	31.1	24.7	24.9	24.8	24.2	26.3	26.2
35°	32.0	40.1	45.1	44.0	40.7	38.9	40.6	42.4	38.2	41.9	42.9
32.5°	51.5	61.2	62.6	59.2	59.4	62.6	68.5	67.6	68.9	73.1	77.9
30°	74.3	85.9	90.4	84.3	79.9	87.6	90.9	93.8	103.2	115.6	126.6
27.5°	111.9	120.4	128.0	121.7	109.0	118.5	125.2	123.2	149.2	163.1	194.1
25°	159.1	171.1	175.4	177.8	173.5	171.7	188.5	197.1	233.0	271.0	335.6
22.5°	217.2	249.9	259.1	247.0	260.6	270.1	281.5	319.9	391.6	508.3	674.8
20°	291.0	357.7	411.4	402.7	370.7	411.6	457.8	578.8	788.4	1259.6	1645.2
17.5°	524.6	525.9	633.0	676.1	623.5	712.1	939.2	1333.0	2199.1	3788.4	4818.9
15°	885.6	909.5	958.8	1016.6	1111.4	1342.9	1800.5	3450.5	5935.4	9373.4	12901.2
12.5°	1268.3	1322.2	1406.6	1453.9	1647.4	2267.0	4229.5	7842.5	13087.5	19706.1	30685.2
10°	1597.2	1740.6	1849.4	1997.2	2496.4	3951.9	7338.2	13581.2	24153.8	38433.2	55309.7
7.5°	1829.7	2039.6	2223.6	2501.5	3538.2	6472.1	12151.6	22537.5	38507.0	58672.3	81936.5
5°	2063.6	2329.2	2535.4	2901.7	4203.5	8362.6	15920.4	30929.5	53989.2	81440.5	112553.9
2.5°	2301.2	2599.8	2827.0	3280.3	4629.1	9321.1	17832.5	35937.8	64226.6	97652.0	135426.1
0°	2540.4	2823.2	3062.3	3574.7	5290.3	10829.2	19633.6	37849.2	65180.6	99299.9	137642.3
-2.5°	2529.3	2716.1	2935.1	3332.2	4825.6	9968.9	18248.7	35770.1	61704.2	93351.6	128122.4
-5°	2433.2	2564.4	2737.9	3088.8	4317.1	8309.5	15782.8	30576.6	54498.5	83493.1	113463.7
-7.5°	2283.7	2393.8	2523.5	2813.2	3731.0	6613.6	12766.5	24523.9	43232.4	64238.7	87220.5
-10°	2140.4	2225.3	2317.5	2518.2	3108.0	4847.2	9056.9	16617.5	30094.6	45809.5	63298.9
-12.5°	2008.3	2076.0	2125.0	2209.9	2503.6	3510.9	6511.9	11918.5	19660.9	29395.5	42297.4
-15°	1873.8	1931.1	1956.4	2024.5	2216.7	2715.2	3925.0	7326.0	12290.6	18577.1	25118.9
-17.5°	1729.2	1797.4	1835.5	1879.2	1963.0	2169.5	2837.0	4267.1	7268.5	11488.9	15702.4
-20°	1610.4	1690.7	1723.4	1753.7	1830.9	1952.2	2142.8	2785.9	3882.2	6510.6	9130.7



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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°	1495.5	1567.9	1610.4	1675.7	1775.5	1859.5	1922.0	2075.1	2530.5	3247.7	4528.2
-25°	1391.1	1453.7	1537.6	1662.9	1760.7	1820.7	1832.5	1839.0	1968.8	2111.2	2543.5
-27.5°	1286.0	1374.7	1499.6	1641.0	1757.1	1786.4	1788.0	1785.7	1816.7	1838.3	1945.9
-30°	1192.3	1308.5	1426.5	1577.4	1690.4	1738.0	1758.2	1772.0	1787.9	1807.6	1814.8
-32.5°	1001.3	1238.9	1334.4	1455.2	1597.7	1672.9	1710.7	1743.0	1760.7	1777.8	1791.4
-35°	791.6	1042.3	1270.2	1348.3	1449.4	1576.8	1671.8	1710.4	1742.9	1761.2	1778.4
-37.5°	595.4	810.3	1031.8	1239.4	1342.6	1432.8	1554.1	1648.6	1708.3	1731.8	1752.5
-40°	524.7	580.5	776.2	966.6	1148.5	1320.2	1421.0	1535.2	1626.4	1672.6	1708.4
-42.5°	522.0	542.5	562.5	696.2	865.1	1030.7	1187.2	1333.8	1469.1	1561.0	1629.2
-45°	521.4	536.0	552.7	572.7	592.8	722.1	866.7	1012.2	1160.6	1299.9	1424.7
-47.5°	487.5	523.8	543.8	559.8	573.2	590.3	609.8	646.5	767.3	889.1	1011.1
-50°	441.0	477.3	510.6	542.4	558.6	569.7	580.4	592.5	607.7	623.0	638.7
-52.5°	389.0	423.5	457.3	487.7	513.9	539.1	563.0	573.9	582.0	589.5	595.9
-55°	340.4	370.1	398.8	425.7	451.7	476.3	498.7	517.8	535.5	551.7	564.2
-57.5°	288.9	317.1	343.8	366.4	388.1	408.6	428.4	446.8	463.4	478.0	490.4
-60°	237.2	260.3	283.8	305.4	326.0	345.4	361.8	376.9	390.7	403.4	415.0
-62.5°	188.5	206.6	226.3	244.5	260.8	276.6	294.1	309.2	322.0	333.2	343.7
-65°	150.3	163.2	177.4	191.1	204.4	219.4	235.9	250.3	262.8	273.2	282.1
-67.5°	108.6	121.2	134.8	147.2	158.7	171.2	186.4	200.7	214.1	224.9	233.6
-70°	73.1	82.1	92.3	103.4	114.5	126.3	139.6	152.5	164.9	174.9	183.1
-72.5°	44.9	50.8	56.6	64.0	71.7	80.7	90.9	101.2	111.5	120.0	127.2
-75°	23.9	25.9	30.3	34.5	38.5	43.6	48.8	53.7	58.2	62.3	66.0
-77.5°	20.4	21.3	22.0	22.8	23.4	25.5	28.0	30.6	33.3	36.1	38.9
-80°	16.3	16.9	17.6	18.2	18.9	20.4	22.1	23.8	25.5	27.3	29.2
-82.5°	12.5	12.9	13.2	13.4	13.7	14.8	16.1	17.3	18.5	20.0	21.5
-85°	9.4	9.6	9.7	9.9	10.0	10.9	11.9	12.8	13.6	15.3	16.9
-87.5°	7.6	7.6	7.5	7.5	7.5	8.7	9.8	10.9	12.0	13.3	14.6
-90°	2.1	2.1	2.1	2.1	2.1	1.9	1.6	1.4	1.1	0.8	0.6



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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°	35.3	40.4	43.0	45.7	43.0	40.4	35.3	30.3	25.2	20.2	17.3
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4
85°	1.3	1.1	1.1	1.1	1.1	1.1	1.3	1.6	1.8	2.0	2.0
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.5
80°	2.1	2.1	1.6	1.1	1.6	2.1	2.1	2.0	2.0	2.0	2.0
77.5°	1.4	1.1	1.6	2.1	1.6	1.1	1.4	1.7	1.9	2.1	2.1
75°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.6
72.5°	4.4	4.3	4.3	4.3	4.3	4.3	4.4	4.5	4.6	4.7	4.9
70°	5.2	5.3	5.3	5.3	5.3	5.3	5.2	5.2	5.3	5.6	6.3
67.5°	4.4	4.3	3.8	3.2	3.8	4.3	4.4	4.4	4.5	5.1	6.2
65°	4.0	4.2	3.8	3.2	3.8	4.2	4.0	3.7	3.6	4.1	5.3
62.5°	3.3	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.2	3.6	4.2
60°	2.8	3.1	3.2	3.2	3.2	3.1	2.8	2.6	2.5	2.8	3.3
57.5°	3.1	3.2	3.2	3.2	3.2	3.2	3.1	3.0	2.8	2.8	2.9
55°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
52.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
50°	3.6	3.4	3.2	3.2	3.2	3.4	3.6	3.8	3.8	3.6	3.3
47.5°	4.6	4.4	4.3	4.3	4.3	4.4	4.6	4.8	4.9	4.8	4.4
45°	6.5	6.4	6.4	6.4	6.4	6.4	6.5	6.6	7.5	7.6	6.2
42.5°	9.5	9.5	9.5	9.6	9.5	9.5	9.5	9.4	11.1	13.7	15.7
40°	17.9	18.0	17.6	17.0	17.6	18.0	17.9	17.0	16.0	14.8	16.5
37.5°	26.2	26.3	26.4	26.6	26.4	26.3	26.2	26.2	26.3	24.2	24.8
35°	42.4	41.3	38.9	39.3	38.9	41.3	42.4	42.9	41.9	38.2	42.4
32.5°	81.0	79.9	75.4	78.7	75.4	79.9	81.0	77.9	73.1	68.9	67.6
30°	136.3	141.7	144.0	143.5	144.0	141.7	136.3	126.6	115.6	103.2	93.8
27.5°	210.0	221.9	229.4	233.8	229.4	221.9	210.0	194.1	163.1	149.2	123.2
25°	382.0	411.6	428.4	450.7	428.4	411.6	382.0	335.6	271.0	233.0	197.1
22.5°	854.1	961.3	1029.4	1077.8	1029.4	961.3	854.1	674.8	508.3	391.6	319.9
20°	2215.9	2207.1	2384.7	2480.9	2384.7	2207.1	2215.9	1645.2	1259.6	788.4	578.8
17.5°	6936.5	8038.8	8318.5	8079.4	8318.5	8038.8	6936.5	4818.9	3788.4	2199.1	1333.0
15°	17829.7	21511.8	23218.2	23194.4	23218.2	21511.8	17829.7	12901.2	9373.4	5935.4	3450.5
12.5°	38447.3	45558.6	50202.0	53011.0	50202.0	45558.6	38447.3	30685.2	19706.1	13087.5	7842.5
10°	69773.0	81955.2	91669.6	96550.1	91669.6	81955.2	69773.0	55309.7	38433.2	24153.8	13581.2
7.5°	103402.1	123113.1	139756.8	146665.6	139756.8	123113.1	103402.1	81936.5	58672.3	38507.0	22537.5
5°	142360.9	173724.2	189301.3	196013.6	189301.3	173724.2	142360.9	112553.9	81440.5	53989.2	30929.5
2.5°	174954.3	206227.8	228000.1	236274.6	228000.1	206227.8	174954.3	135426.1	97652.0	64226.6	35937.8
0°	181478.5	214171.8	238134.3	255479.8	238134.3	214171.8	181478.5	137642.3	99299.9	65180.6	37849.2
-2.5°	167621.4	199565.8	217074.8	224410.6	217074.8	199565.8	167621.4	128122.4	93351.6	61704.2	35770.1
-5°	145719.3	174071.6	190259.2	193510.4	190259.2	174071.6	145719.3	113463.7	83493.1	54498.5	30576.6
-7.5°	111355.7	130982.2	143750.2	146327.6	143750.2	130982.2	111355.7	87220.5	64238.7	43232.4	24523.9
-10°	80982.7	95133.4	103332.9	104220.2	103332.9	95133.4	80982.7	63298.9	45809.5	30094.6	16617.5
-12.5°	54108.8	65196.7	70995.8	71834.1	70995.8	65196.7	54108.8	42297.4	29395.5	19660.9	11918.5
-15°	33907.1	41119.2	45378.4	46301.7	45378.4	41119.2	33907.1	25118.9	18577.1	12290.6	7326.0
-17.5°	20891.9	24540.0	26774.0	28250.8	26774.0	24540.0	20891.9	15702.4	11488.9	7268.5	4267.1
-20°	12215.8	14581.5	15909.1	16512.8	15909.1	14581.5	12215.8	9130.7	6510.6	3882.2	2785.9



REPORT NUMBER: P731432 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	6132.9	7300.0	8095.0	8215.5	8095.0	7300.0	6132.9	4528.2	3247.7	2530.5	2075.1
-25°	2974.3	3299.4	3522.5	3535.3	3522.5	3299.4	2974.3	2543.5	2111.2	1968.8	1839.0
-27.5°	2033.8	2101.4	2145.1	2170.5	2145.1	2101.4	2033.8	1945.9	1838.3	1816.7	1785.7
-30°	1822.3	1832.4	1838.5	1830.4	1838.5	1832.4	1822.3	1814.8	1807.6	1787.9	1772.0
-32.5°	1795.9	1800.6	1803.9	1798.5	1803.9	1800.6	1795.9	1791.4	1777.8	1760.7	1743.0
-35°	1793.9	1807.0	1817.2	1814.4	1817.2	1807.0	1793.9	1778.4	1761.2	1742.9	1710.4
-37.5°	1767.5	1779.0	1786.8	1786.8	1786.8	1779.0	1767.5	1752.5	1731.8	1708.3	1648.6
-40°	1728.4	1744.2	1754.0	1753.9	1754.0	1744.2	1728.4	1708.4	1672.6	1626.4	1535.2
-42.5°	1661.7	1683.8	1694.2	1693.3	1694.2	1683.8	1661.7	1629.2	1561.0	1469.1	1333.8
-45°	1518.5	1589.7	1627.8	1631.6	1627.8	1589.7	1518.5	1424.7	1299.9	1160.6	1012.2
-47.5°	1131.4	1241.1	1308.3	1323.4	1308.3	1241.1	1131.4	1011.1	889.1	767.3	646.5
-50°	654.3	669.0	675.2	672.8	675.2	669.0	654.3	638.7	623.0	607.7	592.5
-52.5°	602.0	607.9	612.3	615.4	612.3	607.9	602.0	595.9	589.5	582.0	573.9
-55°	574.5	582.4	587.5	589.9	587.5	582.4	574.5	564.2	551.7	535.5	517.8
-57.5°	500.5	508.4	512.8	514.5	512.8	508.4	500.5	490.4	478.0	463.4	446.8
-60°	424.6	432.4	436.9	439.0	436.9	432.4	424.6	415.0	403.4	390.7	376.9
-62.5°	352.5	359.8	364.2	366.7	364.2	359.8	352.5	343.7	333.2	322.0	309.2
-65°	290.0	296.9	300.6	302.9	300.6	296.9	290.0	282.1	273.2	262.8	250.3
-67.5°	241.4	248.4	252.9	256.2	252.9	248.4	241.4	233.6	224.9	214.1	200.7
-70°	190.7	197.4	199.9	200.9	199.9	197.4	190.7	183.1	174.9	164.9	152.5
-72.5°	133.6	139.2	142.9	145.6	142.9	139.2	133.6	127.2	120.0	111.5	101.2
-75°	69.4	72.5	74.7	76.5	74.7	72.5	69.4	66.0	62.3	58.2	53.7
-77.5°	41.6	44.3	45.6	46.8	45.6	44.3	41.6	38.9	36.1	33.3	30.6
-80°	31.0	32.8	33.5	34.0	33.5	32.8	31.0	29.2	27.3	25.5	23.8
-82.5°	22.9	24.3	24.9	25.5	24.9	24.3	22.9	21.5	20.0	18.5	17.3
-85°	18.5	20.2	20.7	21.3	20.7	20.2	18.5	16.9	15.3	13.6	12.8
-87.5°	15.8	17.1	18.1	19.1	18.1	17.1	15.8	14.6	13.3	12.0	10.9
-90°	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.8	1.1	1.4



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	14.3	11.4	8.5	8.5	8.5	8.5	8.5	8.2	7.9	7.7	7.4
87.5°	1.6	1.9	2.1	2.1	2.1	2.1	2.1	2.4	2.7	2.9	3.2
85°	2.0	2.1	2.1	2.3	2.5	2.7	2.8	2.9	2.9	3.1	3.2
82.5°	1.7	1.9	2.1	2.4	2.7	2.9	3.2	3.2	3.2	3.2	3.2
80°	2.0	2.0	2.1	2.4	2.7	3.0	3.2	3.3	3.2	3.2	3.2
77.5°	2.1	2.1	2.2	2.6	2.9	3.2	3.4	3.5	3.7	3.8	3.8
75°	2.9	3.1	3.3	3.7	4.0	4.1	4.2	4.1	4.1	4.2	4.3
72.5°	5.2	5.4	5.9	6.7	7.1	7.5	7.5	7.1	6.3	5.2	4.3
70°	6.9	7.5	8.9	10.9	12.3	13.1	13.4	12.9	11.6	10.3	8.3
67.5°	7.2	8.2	10.1	12.6	14.7	16.7	18.8	20.6	20.7	19.2	14.1
65°	6.5	7.9	9.7	11.5	13.8	16.7	20.9	23.7	25.5	26.2	21.7
62.5°	5.1	6.2	7.3	8.8	10.8	13.8	18.7	23.1	27.2	28.4	23.9
60°	3.8	4.4	5.2	6.2	7.4	10.1	14.9	20.3	26.3	26.2	23.8
57.5°	3.0	3.5	4.3	4.8	5.2	7.2	10.7	15.5	21.3	21.8	21.1
55°	3.2	3.6	4.2	4.8	5.3	6.0	7.3	10.2	14.6	16.0	16.3
52.5°	3.2	3.7	4.3	4.9	5.4	5.7	6.1	7.6	8.9	10.9	11.9
50°	3.3	3.9	4.5	5.1	5.5	5.8	6.1	6.4	7.1	8.0	8.7
47.5°	4.3	4.6	4.8	5.3	5.7	5.9	6.2	6.6	7.0	7.1	7.5
45°	6.1	6.1	6.0	6.4	6.4	6.5	6.5	7.2	7.5	7.6	7.4
42.5°	14.0	10.3	7.9	9.2	9.0	8.5	8.0	8.6	8.7	8.5	9.1
40°	20.4	23.6	20.1	16.3	15.1	12.6	12.0	11.1	10.9	10.1	11.8
37.5°	24.9	24.7	31.1	33.4	27.6	22.7	19.1	16.1	14.1	14.9	16.1
35°	40.6	38.9	40.7	44.0	45.1	40.1	32.0	24.5	20.7	21.0	21.5
32.5°	68.5	62.6	59.4	59.2	62.6	61.2	51.5	39.3	32.0	29.6	28.2
30°	90.9	87.6	79.9	84.3	90.4	85.9	74.3	66.8	54.3	39.8	36.0
27.5°	125.2	118.5	109.0	121.7	128.0	120.4	111.9	103.1	82.6	60.6	48.0
25°	188.5	171.7	173.5	177.8	175.4	171.1	159.1	144.6	121.5	91.8	77.0
22.5°	281.5	270.1	260.6	247.0	259.1	249.9	217.2	189.0	184.1	174.7	133.0
20°	457.8	411.6	370.7	402.7	411.4	357.7	291.0	295.6	329.5	296.8	208.1
17.5°	939.2	712.1	623.5	676.1	633.0	525.9	524.6	513.9	503.6	450.3	297.6
15°	1800.5	1342.9	1111.4	1016.6	958.8	909.5	885.6	765.6	705.3	618.2	442.4
12.5°	4229.5	2267.0	1647.4	1453.9	1406.6	1322.2	1268.3	1095.1	935.9	834.2	665.4
10°	7338.2	3951.9	2496.4	1997.2	1849.4	1740.6	1597.2	1386.3	1181.5	1065.9	895.7
7.5°	12151.6	6472.1	3538.2	2501.5	2223.6	2039.6	1829.7	1623.7	1417.4	1291.4	1128.1
5°	15920.4	8362.6	4203.5	2901.7	2535.4	2329.2	2063.6	1828.9	1644.1	1510.5	1356.1
2.5°	17832.5	9321.1	4629.1	3280.3	2827.0	2599.8	2301.2	2011.5	1809.1	1650.1	1486.4
0°	19633.6	10829.2	5290.3	3574.7	3062.3	2823.2	2540.4	2184.3	1942.0	1768.7	1599.7
-2.5°	18248.7	9968.9	4825.6	3332.2	2935.1	2716.1	2529.3	2242.9	1989.9	1787.7	1582.3
-5°	15782.8	8309.5	4317.1	3088.8	2737.9	2564.4	2433.2	2218.9	1981.3	1780.9	1542.4
-7.5°	12766.5	6613.6	3731.0	2813.2	2523.5	2393.8	2283.7	2099.1	1870.9	1694.2	1444.2
-10°	9056.9	4847.2	3108.0	2518.2	2317.5	2225.3	2140.4	1961.0	1758.0	1603.1	1328.2
-12.5°	6511.9	3510.9	2503.6	2209.9	2125.0	2076.0	2008.3	1812.0	1645.9	1509.8	1196.8
-15°	3925.0	2715.2	2216.7	2024.5	1956.4	1931.1	1873.8	1689.1	1559.1	1417.8	1051.9
-17.5°	2837.0	2169.5	1963.0	1879.2	1835.5	1797.4	1729.2	1596.3	1464.6	1286.7	893.9
-20°	2142.8	1952.2	1830.9	1753.7	1723.4	1690.7	1610.4	1494.8	1355.4	1096.0	741.9



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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°	1922.0	1859.5	1775.5	1675.7	1610.4	1567.9	1495.5	1386.4	1233.4	894.8	593.3
-25°	1832.5	1820.7	1760.7	1662.9	1537.6	1453.7	1391.1	1276.7	1035.9	711.5	468.4
-27.5°	1788.0	1786.4	1757.1	1641.0	1499.6	1374.7	1286.0	1149.7	837.6	574.6	450.7
-30°	1758.2	1738.0	1690.4	1577.4	1426.5	1308.5	1192.3	934.0	674.2	471.1	443.2
-32.5°	1710.7	1672.9	1597.7	1455.2	1334.4	1238.9	1001.3	736.0	518.3	462.4	439.6
-35°	1671.8	1576.8	1449.4	1348.3	1270.2	1042.3	791.6	570.6	479.9	453.9	436.7
-37.5°	1554.1	1432.8	1342.6	1239.4	1031.8	810.3	595.4	502.8	470.4	450.2	420.2
-40°	1421.0	1320.2	1148.5	966.6	776.2	580.5	524.7	496.7	471.8	437.2	396.6
-42.5°	1187.2	1030.7	865.1	696.2	562.5	542.5	522.0	497.7	462.4	414.9	368.8
-45°	866.7	722.1	592.8	572.7	552.7	536.0	521.4	481.4	434.3	385.9	339.2
-47.5°	609.8	590.3	573.2	559.8	543.8	523.8	487.5	446.8	398.3	352.5	311.2
-50°	580.4	569.7	558.6	542.4	510.6	477.3	441.0	402.6	359.1	319.0	280.5
-52.5°	563.0	539.1	513.9	487.7	457.3	423.5	389.0	356.1	319.8	282.7	247.3
-55°	498.7	476.3	451.7	425.7	398.8	370.1	340.4	309.6	277.4	243.8	213.4
-57.5°	428.4	408.6	388.1	366.4	343.8	317.1	288.9	260.7	234.2	206.2	179.5
-60°	361.8	345.4	326.0	305.4	283.8	260.3	237.2	214.1	191.3	172.0	151.5
-62.5°	294.1	276.6	260.8	244.5	226.3	206.6	188.5	173.3	158.0	141.3	120.6
-65°	235.9	219.4	204.4	191.1	177.4	163.2	150.3	136.4	121.2	105.0	87.4
-67.5°	186.4	171.2	158.7	147.2	134.8	121.2	108.6	95.7	84.2	72.6	59.5
-70°	139.6	126.3	114.5	103.4	92.3	82.1	73.1	63.9	53.7	45.2	37.9
-72.5°	90.9	80.7	71.7	64.0	56.6	50.8	44.9	38.7	32.6	26.7	22.5
-75°	48.8	43.6	38.5	34.5	30.3	25.9	23.9	22.9	21.7	20.5	19.0
-77.5°	28.0	25.5	23.4	22.8	22.0	21.3	20.4	19.3	18.1	17.0	16.0
-80°	22.1	20.4	18.9	18.2	17.6	16.9	16.3	15.4	14.6	13.8	13.2
-82.5°	16.1	14.8	13.7	13.4	13.2	12.9	12.5	12.1	11.7	11.3	11.0
-85°	11.9	10.9	10.0	9.9	9.7	9.6	9.4	9.3	9.1	8.9	8.7
-87.5°	9.8	8.7	7.5	7.5	7.5	7.6	7.6	7.6	7.5	7.5	7.4
-90°	1.6	1.9	2.1	2.1	2.1	2.1	2.1	2.4	2.7	2.9	3.2



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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°	7.2	6.9	6.7	6.4	6.4	6.4	6.4	6.4	6.1	5.9	5.6
87.5°	3.2	3.2	3.2	3.2	3.3	3.5	3.6	3.7	3.8	3.9	4.1
85°	3.3	3.4	3.4	3.4	3.5	3.8	4.0	4.1	4.1	4.1	4.2
82.5°	3.5	3.7	3.9	4.0	4.0	4.0	4.1	4.3	4.3	4.3	4.3
80°	3.5	3.8	4.1	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
77.5°	3.8	3.9	4.1	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
75°	4.3	4.2	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
72.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
70°	6.2	4.7	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
67.5°	9.6	7.3	5.6	4.5	4.3	4.3	4.3	4.4	4.4	4.3	4.3
65°	15.7	10.8	7.2	5.9	4.8	4.3	4.3	4.5	4.6	4.5	4.3
62.5°	19.6	15.0	10.5	7.6	5.7	4.8	4.3	4.6	4.8	4.8	4.5
60°	21.0	16.6	13.5	10.3	7.3	5.4	4.7	4.6	4.8	5.0	4.7
57.5°	18.9	17.1	15.1	12.6	9.5	6.6	5.2	4.9	4.9	5.1	5.0
55°	15.8	15.0	15.8	14.2	11.4	8.3	6.0	5.3	5.0	5.1	5.3
52.5°	11.9	13.4	15.2	15.2	12.9	9.9	7.4	5.8	5.4	5.2	5.4
50°	9.0	11.5	14.5	15.6	14.3	11.4	8.6	6.7	5.8	5.3	5.5
47.5°	8.3	10.5	13.0	15.9	15.4	12.8	9.7	7.4	6.2	5.7	5.6
45°	8.9	10.4	12.2	14.7	16.4	13.6	10.9	8.0	6.7	6.1	5.8
42.5°	10.1	11.3	12.4	13.7	15.4	14.2	11.9	8.9	7.0	6.5	6.1
40°	12.6	12.8	13.2	14.4	14.7	14.5	12.2	9.6	7.3	6.9	6.4
37.5°	15.9	15.3	14.9	16.2	15.0	14.4	12.4	10.3	8.0	7.4	6.7
35°	20.8	18.9	18.4	19.3	17.6	14.6	12.4	10.7	9.1	7.9	7.1
32.5°	26.7	25.1	24.4	23.1	21.2	15.4	12.7	11.6	10.3	8.5	7.4
30°	35.2	36.3	31.7	27.6	25.4	18.7	14.1	12.7	11.4	9.2	7.8
27.5°	52.3	50.8	41.0	34.2	29.6	23.2	17.2	14.0	12.6	10.0	8.3
25°	74.2	68.2	55.2	42.1	34.1	37.4	20.9	15.5	13.7	10.9	8.8
22.5°	103.4	88.5	71.4	50.8	55.0	56.3	28.8	18.4	14.8	11.9	9.4
20°	137.1	111.3	95.8	84.6	80.4	75.1	42.6	21.6	16.0	12.8	9.9
17.5°	179.9	158.7	153.8	128.3	108.9	95.6	59.0	25.1	17.3	13.7	10.5
15°	296.3	234.2	215.8	177.2	139.1	117.6	77.4	28.8	18.6	14.5	11.0
12.5°	442.6	310.2	281.2	230.1	170.7	140.7	97.2	32.5	20.0	15.3	11.4
10°	604.3	386.2	348.8	285.6	203.1	164.4	117.7	37.0	22.2	16.2	11.8
7.5°	774.5	461.8	417.5	342.4	235.2	187.3	139.0	42.9	24.7	17.0	12.1
5°	932.2	527.2	474.6	390.1	263.8	208.5	159.4	48.7	27.2	17.8	12.4
2.5°	1021.9	576.5	522.5	433.9	291.5	228.6	178.1	54.3	29.6	18.5	12.6
0°	1094.8	623.9	567.6	474.1	317.8	247.7	194.5	59.5	31.9	19.1	12.8
-2.5°	1075.7	616.6	559.2	470.4	325.9	253.4	196.9	69.1	39.5	24.1	15.3
-5°	1038.3	607.2	548.2	463.0	331.9	257.7	196.8	78.1	46.7	28.8	17.6
-7.5°	966.4	585.9	531.3	452.1	335.6	260.2	194.5	86.2	53.4	33.3	19.8
-10°	874.5	557.2	507.2	433.5	330.5	259.3	190.6	93.6	59.5	37.3	21.8
-12.5°	767.8	527.8	483.8	413.7	322.6	255.6	185.7	99.9	64.9	40.7	23.4
-15°	647.7	498.1	461.7	393.4	313.3	250.9	179.9	105.1	69.6	43.8	24.6
-17.5°	517.9	468.5	442.0	373.2	302.8	245.5	173.8	109.1	73.4	46.6	25.9
-20°	481.1	449.1	423.3	353.9	291.1	239.3	167.8	112.0	76.5	48.6	27.1



REPORT NUMBER: P731432 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-2S-CV5

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	463.2	438.5	402.2	338.0	280.2	232.6	162.1	113.6	78.7	50.0	27.7
-25°	446.5	428.7	382.2	323.3	271.1	222.7	159.9	113.9	80.0	50.5	27.7
-27.5°	434.6	416.0	362.3	307.4	261.0	214.4	159.4	114.9	80.4	50.2	27.0
-30°	425.4	393.5	343.2	291.6	249.7	203.1	157.3	114.7	79.8	49.3	25.6
-32.5°	417.8	371.9	323.3	278.1	236.4	191.1	150.4	113.3	78.1	47.6	24.7
-35°	398.0	350.9	303.0	263.4	222.2	180.2	141.5	110.7	75.1	44.9	23.6
-37.5°	376.8	329.1	285.9	247.5	207.7	168.1	133.1	102.9	70.9	41.2	22.1
-40°	351.7	307.4	268.1	231.3	193.1	154.9	123.5	93.9	65.8	36.5	20.1
-42.5°	325.4	286.2	249.0	214.4	177.5	143.1	112.9	83.9	57.5	32.7	17.6
-45°	300.2	263.1	228.2	194.7	161.1	130.2	100.8	73.1	48.4	29.2	15.7
-47.5°	273.0	238.4	205.5	173.6	145.3	115.9	87.6	62.3	38.8	25.1	15.1
-50°	244.0	212.0	181.3	153.7	127.5	100.1	73.8	50.8	32.8	19.8	14.3
-52.5°	214.4	184.4	158.3	133.8	108.6	83.2	60.4	39.2	26.5	17.2	13.5
-55°	183.9	158.8	136.2	112.6	88.8	67.1	46.2	31.8	20.0	15.8	12.5
-57.5°	157.1	134.7	112.4	90.2	69.9	50.7	35.5	24.2	17.3	14.4	12.1
-60°	130.4	108.4	87.5	69.2	51.4	37.1	26.6	18.3	15.8	13.2	11.7
-62.5°	100.4	81.4	64.8	48.6	36.6	27.0	18.8	16.6	14.2	12.5	11.1
-65°	72.4	57.3	42.7	34.1	25.4	18.9	17.0	15.0	13.2	11.8	10.5
-67.5°	46.2	37.8	29.4	21.6	18.6	17.0	15.3	13.7	12.3	11.0	10.0
-70°	30.5	23.2	19.6	18.0	16.5	15.1	13.9	12.5	11.3	10.5	9.5
-72.5°	20.6	18.8	17.1	15.7	14.8	13.8	12.6	11.5	10.8	10.0	9.0
-75°	17.5	16.3	15.3	14.5	13.6	12.5	11.7	11.0	10.3	9.5	8.5
-77.5°	15.1	14.4	13.9	13.2	12.3	11.6	11.0	10.6	9.8	8.8	7.9
-80°	12.8	12.4	12.0	11.5	11.0	10.6	10.3	9.9	9.0	8.2	7.3
-82.5°	10.7	10.4	10.2	10.0	9.8	9.5	9.3	9.0	8.2	7.5	6.8
-85°	8.7	8.7	8.7	8.8	8.7	8.5	8.3	8.2	7.5	6.9	6.4
-87.5°	7.5	7.6	7.6	7.6	7.5	7.4	7.4	7.3	6.8	6.4	6.0
-90°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.5	3.8	4.0



REPORT NUMBER: P731432 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	5.3	5.1	4.8	4.6	4.3	4.3	4.3
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3
85°	4.3	4.3	4.3	4.3	4.3	4.3	4.3
82.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3
80°	4.3	4.3	4.3	4.3	4.3	4.3	4.3
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3
75°	4.3	4.4	4.3	4.3	4.3	4.3	4.3
72.5°	4.4	4.5	4.4	4.3	4.3	4.3	4.3
70°	4.4	4.5	4.5	4.3	4.3	4.3	4.3
67.5°	4.4	4.6	4.6	4.4	4.3	4.3	4.3
65°	4.4	4.7	4.7	4.5	4.3	4.3	4.3
62.5°	4.5	4.7	4.8	4.6	4.3	4.3	4.3
60°	4.5	4.7	4.9	4.7	4.3	4.3	4.3
57.5°	4.7	4.7	5.0	4.8	4.4	4.3	4.3
55°	5.0	4.8	5.0	4.9	4.4	4.3	4.3
52.5°	5.2	4.8	5.0	5.0	4.5	4.3	4.3
50°	5.5	5.0	5.0	5.2	4.6	4.3	4.3
47.5°	5.7	5.3	5.1	5.2	4.7	4.3	4.3
45°	5.9	5.5	5.1	5.3	4.7	4.3	4.3
42.5°	6.0	5.7	5.1	5.3	4.8	4.3	4.3
40°	6.2	5.9	5.2	5.3	4.8	4.3	4.3
37.5°	6.4	6.1	5.4	5.3	4.9	4.3	4.3
35°	6.6	6.2	5.5	5.4	4.9	4.3	4.3
32.5°	6.8	6.4	5.7	5.4	5.0	4.3	4.3
30°	7.0	6.5	5.8	5.5	5.0	4.3	4.3
27.5°	7.3	6.7	5.9	5.5	5.1	4.3	4.3
25°	7.6	6.9	6.0	5.6	5.1	4.3	4.3
22.5°	7.8	7.0	6.1	5.7	5.1	4.3	4.3
20°	8.0	7.1	6.2	5.7	5.2	4.3	4.3
17.5°	8.2	7.2	6.3	5.8	5.2	4.3	4.3
15°	8.4	7.2	6.3	5.9	5.2	4.3	4.3
12.5°	8.7	7.3	6.4	6.0	5.3	4.3	4.3
10°	8.9	7.3	6.4	6.1	5.3	4.3	4.3
7.5°	9.1	7.4	6.4	6.2	5.3	4.3	4.3
5°	9.3	7.4	6.4	6.2	5.3	4.3	4.3
2.5°	9.4	7.4	6.4	6.3	5.3	4.3	4.3
0°	9.6	7.4	6.4	6.4	5.3	4.3	4.3
-2.5°	10.4	7.6	6.6	6.5	5.3	4.3	4.3
-5°	11.2	7.9	6.8	6.5	5.4	4.3	4.3
-7.5°	11.9	8.1	6.9	6.6	5.4	4.4	4.3
-10°	12.5	8.3	7.1	6.6	5.5	4.4	4.3
-12.5°	13.1	8.5	7.3	6.7	5.5	4.4	4.3
-15°	13.5	8.7	7.4	6.7	5.5	4.4	4.3
-17.5°	13.7	8.8	7.5	6.7	5.5	4.4	4.3
-20°	14.0	9.0	7.7	6.7	5.6	4.5	4.3



REPORT NUMBER: P731432 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-2S-CV5

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	14.3	9.1	7.8	6.7	5.6	4.5	4.3
-25°	14.4	9.3	7.8	6.7	5.6	4.5	4.3
-27.5°	14.2	9.5	7.9	6.7	5.6	4.5	4.3
-30°	13.6	9.6	7.9	6.7	5.6	4.5	4.3
-32.5°	12.8	9.7	8.0	6.7	5.6	4.5	4.3
-35°	12.5	9.6	8.0	6.7	5.5	4.5	4.3
-37.5°	12.5	9.6	8.0	6.7	5.5	4.5	4.3
-40°	12.3	9.6	7.9	6.7	5.5	4.5	4.3
-42.5°	12.1	9.5	7.9	6.6	5.5	4.5	4.3
-45°	11.7	9.4	7.9	6.6	5.5	4.6	4.3
-47.5°	11.3	9.3	7.8	6.5	5.4	4.5	4.3
-50°	11.0	9.2	7.7	6.5	5.4	4.5	4.3
-52.5°	10.8	9.0	7.6	6.4	5.3	4.5	4.3
-55°	10.6	8.9	7.5	6.3	5.3	4.5	4.3
-57.5°	10.3	8.7	7.3	6.2	5.2	4.5	4.3
-60°	9.9	8.4	7.2	6.1	5.2	4.5	4.3
-62.5°	9.6	8.2	7.0	6.0	5.1	4.5	4.3
-65°	9.2	7.9	6.8	5.8	5.1	4.5	4.3
-67.5°	8.8	7.6	6.6	5.7	5.0	4.5	4.3
-70°	8.4	7.3	6.3	5.6	4.9	4.5	4.3
-72.5°	7.9	6.9	6.1	5.4	4.9	4.4	4.3
-75°	7.4	6.6	5.9	5.3	4.8	4.4	4.3
-77.5°	7.0	6.2	5.7	5.2	4.7	4.4	4.3
-80°	6.4	6.0	5.5	5.1	4.6	4.4	4.3
-82.5°	6.1	5.7	5.3	4.9	4.6	4.4	4.3
-85°	5.9	5.5	5.2	4.8	4.5	4.3	4.3
-87.5°	5.6	5.3	5.0	4.7	4.4	4.3	4.3
-90°	4.3	4.3	4.3	4.3	4.3	4.3	4.3

(END OF REPORT)

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

Scaled Data Report



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

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

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

Scaled Data Report

