

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: P731419 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-70-5S-CV2**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731419 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-32)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-57-70-5S-CV2
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 5S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

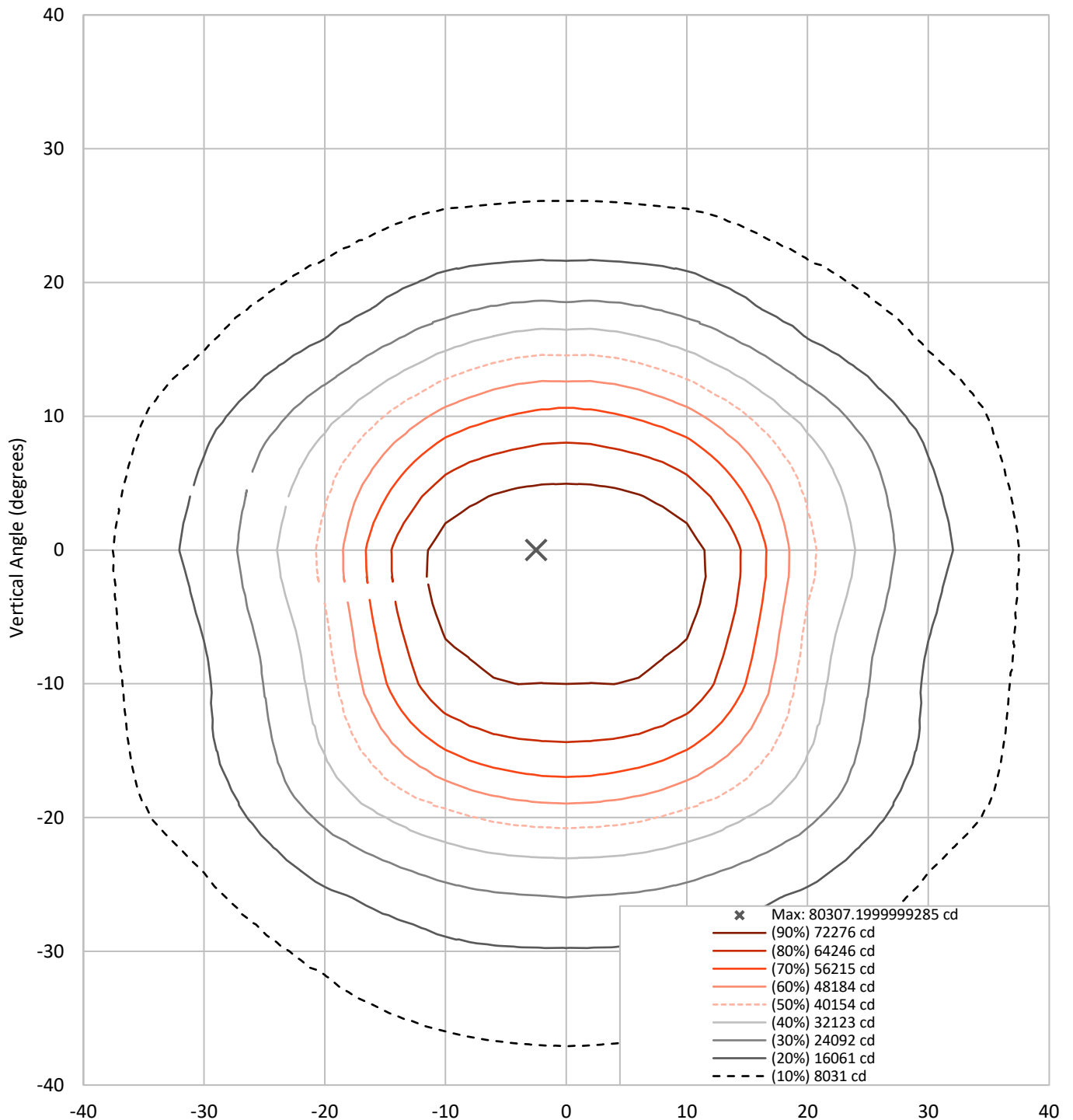
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 4V
Luminaire Lumens:	39633.8 lumens	Max Intensity:	80307.2 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	114.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	41.5°H x 35.3°V	Field Angle (10%):	75°H x 63°V
Beam Lumens:	21799.4 lumens	Field Lumens:	36309.1 lumens
Beam Efficiency:	55.0%	Field Efficiency:	91.6%

Input Watts (W): 345.8
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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Iso-Candela Plot





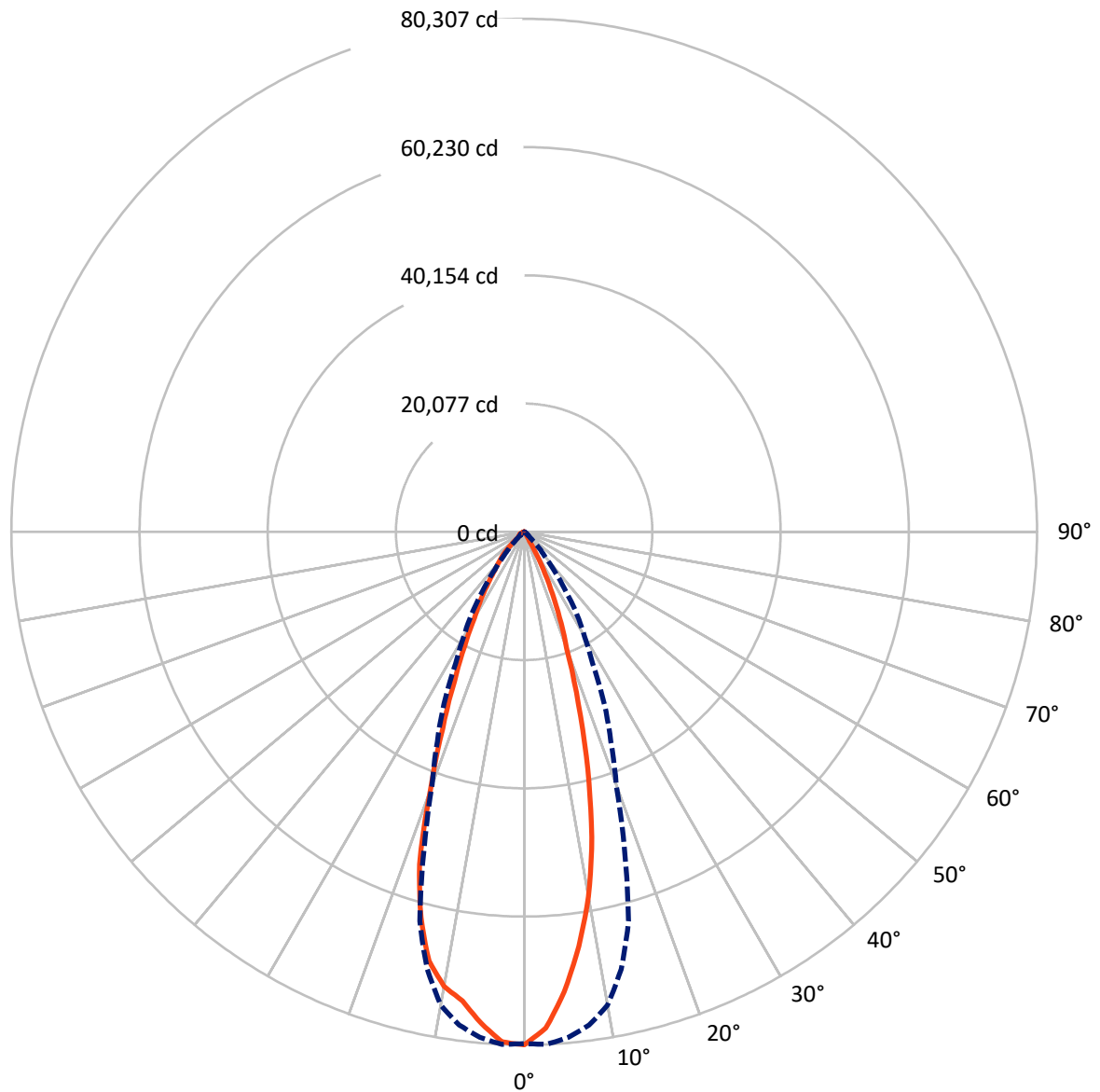
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Lumen Table

90																
80	0.1	0.3		0.4		0.3		0.3		0.3		0.4		0.3		0.1
70																
60	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.2	0.1	0.1	0.1
50		0.1	0.1	0.4	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.4	0.1	0.1	
40	0.1	0.1	0.2	0.4	0.5	0.7	1.0	1.2	1.2	1.0	0.7	0.5	0.4	0.2	0.1	0.1
30		0.1	0.5	1.2	3.2	8.9	15.4	19.7	19.7	15.4	8.9	3.2	1.2	0.5	0.1	
20	0.1	0.2	1.7	6.0	35.2	101.2	205.6	296.9	296.9	205.6	101.2	35.2	6.0	1.7	0.2	0.1
10		0.5	3.7	19.7	125.2	366.9	751.8	1110.8	1110.8	751.8	366.9	125.2	19.7	3.7	0.5	
0	0.2	0.9	6.4	42.9	257.5	735.5	1540.0	2101.8	2101.8	1540.0	735.5	257.5	42.9	6.4	0.9	0.2
-10		1.5	8.7	51.9	269.6	753.2	1728.3	2303.5	2303.5	1728.3	753.2	269.6	51.9	8.7	1.5	
-20	0.2	1.7	8.9	41.7	228.9	620.1	1305.9	1798.3	1798.3	1305.9	620.1	228.9	41.7	8.9	1.7	0.2
-30		1.5	7.3	19.6	114.8	331.8	610.2	801.3	801.3	610.2	331.8	114.8	19.6	7.3	1.5	
-40	0.2	1.1	5.0	11.4	33.5	125.0	230.0	300.1	300.1	230.0	125.0	33.5	11.4	5.0	1.1	0.2
-50		0.7	3.0	8.0	14.8	27.7	62.5	94.3	94.3	62.5	27.7	14.8	8.0	3.0	0.7	
-60	0.1	0.3	1.5	4.5	9.4	15.5	21.3	24.7	24.7	21.3	15.5	9.4	4.5	1.5	0.3	0.1
-70		0.1	0.6	1.8	3.9	6.9	10.4	12.4	12.4	10.4	6.9	3.9	1.8	0.6	0.1	
-80																
-90	0.1	0.4		1.4		3.7		5.2		3.7		1.4		0.4		0.1

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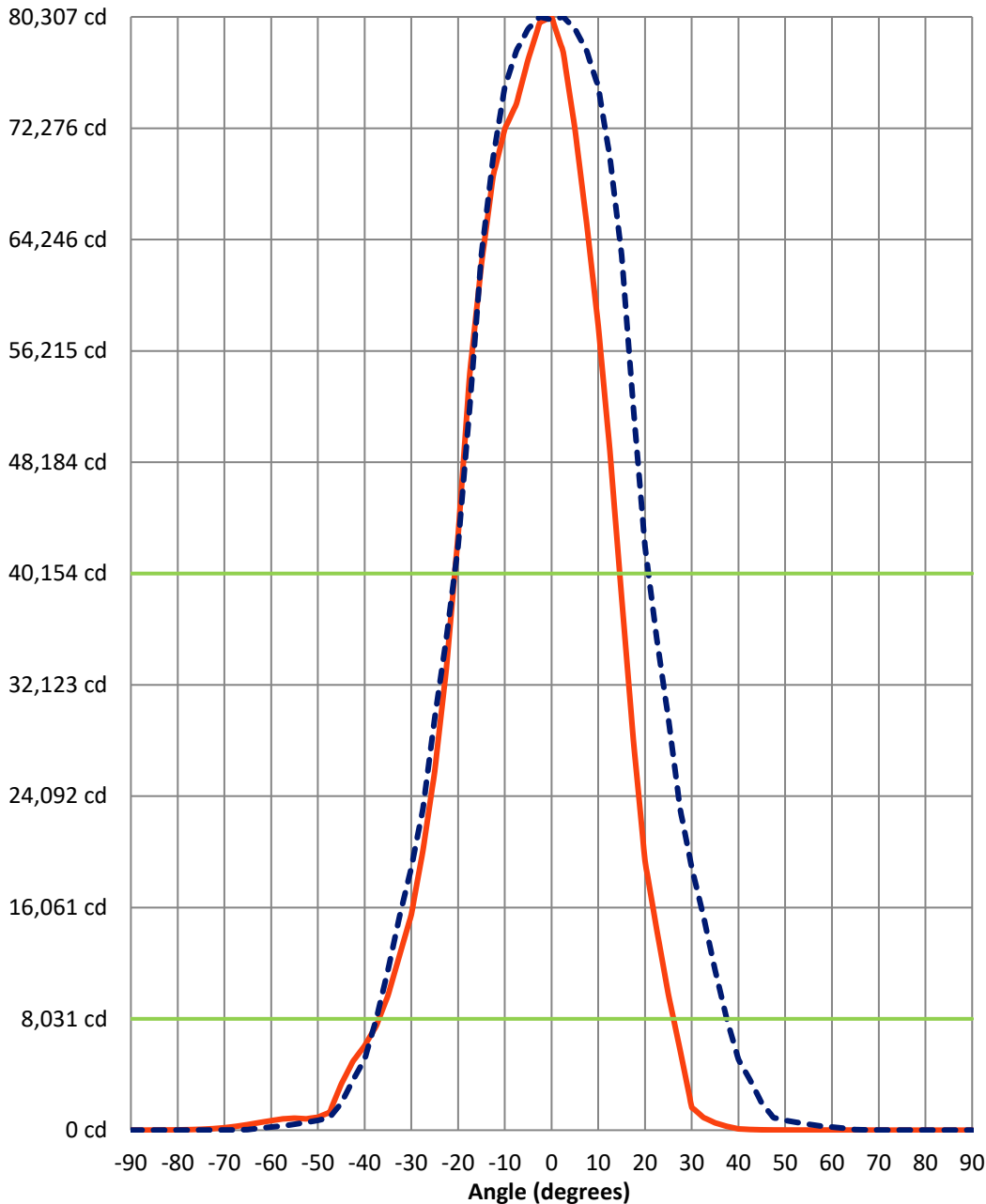
Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 41.5°
 V Angle: 35.3°
 Lumens: 21799.4
 Efficiency: 55.0%

Field:
 H Angle: 75°
 V Angle: 63°
 Lumens: 36309.1
 Efficiency: 91.6%

Spill:
 Lumens: 3324.7
 Efficiency: 8.4%

— Vertical Distribution through -2.5-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°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
85°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
82.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
80°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
77.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
75°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.8	4.7
72.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.8	5.0	5.0	4.8
70°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	5.1	5.2	5.2	5.2
67.5°	4.7	4.7	4.7	4.7	4.7	4.7	5.0	5.4	5.5	5.4	5.6
65°	4.7	4.7	4.7	4.7	4.7	4.8	5.3	5.7	5.6	5.7	5.9
62.5°	4.7	4.7	4.7	4.7	4.7	5.1	5.6	5.8	5.8	5.9	5.9
60°	4.7	4.7	4.7	4.7	4.7	5.3	5.9	5.9	5.9	5.9	5.9
57.5°	4.7	4.7	4.7	4.7	4.9	5.5	5.9	5.9	5.9	5.9	5.9
55°	4.7	4.7	4.7	4.7	5.0	5.7	5.9	5.9	5.9	5.9	5.9
52.5°	4.7	4.7	4.7	4.7	5.2	5.9	5.9	5.9	5.9	5.9	5.9
50°	4.7	4.7	4.7	4.7	5.4	5.9	5.9	5.9	5.9	5.9	6.2
47.5°	4.7	4.7	4.7	4.7	5.5	5.9	5.9	5.9	5.9	5.9	6.6
45°	4.7	4.7	4.7	4.8	5.7	5.9	5.9	5.9	5.9	6.2	7.0
42.5°	4.7	4.7	4.7	5.0	5.8	5.9	5.9	5.9	6.0	6.5	7.3
40°	4.7	4.7	4.7	5.0	5.9	5.9	5.9	6.0	6.2	6.8	7.7
37.5°	4.7	4.7	4.7	5.1	5.9	5.9	5.9	6.1	6.5	7.2	8.0
35°	4.7	4.7	4.7	5.2	5.9	5.9	5.9	6.3	6.8	7.6	8.3
32.5°	4.7	4.7	4.7	5.2	5.9	5.9	5.9	6.4	7.1	8.1	8.9
30°	4.7	4.7	4.7	5.2	5.9	5.9	6.0	6.6	7.4	8.6	9.6
27.5°	4.7	4.7	4.7	5.3	5.9	5.9	6.2	6.9	7.8	9.1	10.4
25°	4.7	4.7	4.7	5.2	5.8	5.9	6.3	7.1	8.2	9.6	11.2
22.5°	4.7	4.7	4.7	5.2	5.8	5.9	6.4	7.3	8.6	10.3	13.2
20°	4.7	4.7	4.7	5.2	5.8	5.9	6.6	7.5	9.0	11.0	15.2
17.5°	4.7	4.7	4.7	5.2	5.8	5.9	6.7	7.8	9.4	11.7	17.3
15°	4.7	4.7	4.7	5.1	5.8	5.9	6.8	7.9	9.8	12.4	19.3
12.5°	4.7	4.7	4.7	5.1	5.8	5.9	6.8	8.0	10.1	13.2	21.3
10°	4.7	4.7	4.7	5.0	5.9	5.9	6.9	8.1	10.5	14.2	24.0
7.5°	4.7	4.7	4.7	4.9	5.9	5.9	6.9	8.1	10.8	15.4	28.3
5°	4.7	4.7	4.7	4.9	5.9	5.9	7.0	8.2	11.2	16.6	32.7
2.5°	4.7	4.7	4.7	4.8	5.9	5.9	7.0	8.2	11.5	17.7	37.0
0°	4.7	4.7	4.7	4.7	5.9	5.9	7.0	8.2	11.7	18.7	41.0
-2.5°	4.7	4.7	4.7	4.8	5.9	6.2	7.5	9.3	14.9	25.6	53.0
-5°	4.7	4.7	4.7	4.9	5.9	6.4	7.9	10.3	17.9	32.3	64.2
-7.5°	4.7	4.7	4.7	4.9	5.9	6.6	8.3	11.3	20.6	38.4	74.4
-10°	4.7	4.7	4.7	5.0	5.9	6.8	8.7	12.2	23.0	43.7	83.3
-12.5°	4.7	4.7	4.7	5.1	5.8	7.0	9.0	13.0	25.0	48.2	89.5
-15°	4.7	4.7	4.7	5.1	5.8	7.1	9.3	13.6	26.9	52.1	93.7
-17.5°	4.7	4.7	4.7	5.2	5.8	7.2	9.6	14.6	28.7	54.9	96.5
-20°	4.7	4.7	4.7	5.2	5.8	7.3	9.9	15.6	30.0	56.6	97.8



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 CATALOG NUMBER: EPH-LS-08-0320N-57-70-5S-CV2

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.7	4.7	4.7	5.2	5.8	7.3	10.3	16.4	30.4	57.2	97.5
-25°	4.7	4.7	4.7	5.2	5.8	7.2	10.5	16.8	30.1	56.4	95.6
-27.5°	4.7	4.7	4.7	5.3	5.9	7.2	10.5	16.8	28.9	55.0	94.4
-30°	4.7	4.7	4.7	5.2	5.9	7.0	10.3	16.5	28.2	53.6	91.7
-32.5°	4.7	4.7	4.7	5.2	6.0	6.9	9.9	16.2	27.9	51.0	87.1
-35°	4.7	4.7	4.7	5.2	6.0	6.7	9.6	15.8	26.9	47.2	80.6
-37.5°	4.7	4.7	4.7	5.1	6.0	6.5	9.3	15.0	25.3	42.1	71.1
-40°	4.7	4.7	4.7	5.0	6.1	6.5	9.0	14.0	23.2	38.7	62.3
-42.5°	4.7	4.7	4.7	5.0	6.0	6.6	8.5	12.6	21.3	34.8	53.0
-45°	4.7	4.7	4.7	4.9	5.9	6.6	8.0	11.4	19.3	30.4	43.9
-47.5°	4.7	4.7	4.7	4.8	5.8	6.6	7.4	10.7	16.9	25.7	38.6
-50°	4.7	4.7	4.7	4.8	5.7	6.5	7.3	9.9	14.0	22.3	33.0
-52.5°	4.7	4.7	4.7	4.8	5.6	6.5	7.2	9.0	12.2	18.6	27.2
-55°	4.7	4.7	4.7	4.8	5.4	6.3	7.1	8.0	11.0	14.7	22.7
-57.5°	4.7	4.7	4.7	4.9	5.3	6.1	6.9	7.8	9.6	12.6	17.9
-60°	4.7	4.7	4.7	4.9	5.1	6.0	6.8	7.6	8.4	10.9	13.8
-62.5°	4.7	4.7	4.7	4.9	5.2	5.8	6.5	7.3	8.1	9.2	11.9
-65°	4.7	4.7	4.7	4.9	5.2	5.6	6.3	7.0	7.8	8.5	9.8
-67.5°	4.7	4.7	4.7	4.9	5.2	5.5	6.1	6.8	7.4	8.2	8.9
-70°	4.7	4.7	4.7	4.9	5.2	5.5	5.8	6.5	7.1	7.8	8.4
-72.5°	4.7	4.7	4.7	4.9	5.2	5.5	5.8	6.2	6.8	7.4	8.0
-75°	4.7	4.7	4.7	4.9	5.3	5.6	5.8	6.1	6.4	7.0	7.5
-77.5°	4.7	4.7	4.7	4.9	5.2	5.6	5.9	6.0	6.3	6.6	7.1
-80°	4.7	4.7	4.7	4.8	5.1	5.5	5.9	5.9	6.1	6.3	6.6
-82.5°	4.7	4.7	4.7	4.8	5.0	5.3	5.6	5.8	5.9	6.0	6.2
-85°	4.7	4.7	4.7	4.8	4.9	5.1	5.3	5.4	5.5	5.6	5.7
-87.5°	4.7	4.7	4.7	4.7	4.8	4.9	5.0	5.1	5.1	5.2	5.2
-90°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7



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 CATALOG NUMBER: EPH-LS-08-0320N-57-70-5S-CV2

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	4.7	4.7	4.7	4.7	4.4	4.1	3.8	3.5	3.5	3.5	3.5
87.5°	4.5	4.4	4.3	4.2	4.0	3.9	3.7	3.5	3.2	2.9	2.6
85°	4.7	4.7	4.7	4.7	4.4	4.1	3.8	3.5	3.3	3.2	3.1
82.5°	4.7	4.7	4.7	4.7	4.4	4.1	3.8	3.5	3.5	3.5	3.5
80°	4.7	4.7	4.7	4.7	4.5	4.2	3.9	3.6	3.5	3.5	3.6
77.5°	4.7	4.7	4.7	4.7	4.5	4.3	4.2	4.2	4.2	4.1	3.9
75°	4.7	4.7	4.8	4.7	4.6	4.6	4.7	4.7	4.5	4.2	3.9
72.5°	4.9	5.0	5.0	4.8	4.7	4.7	4.7	4.7	4.8	4.9	4.8
70°	5.4	5.4	5.2	4.9	4.7	4.8	5.3	6.0	6.5	6.4	6.4
67.5°	5.8	5.5	5.2	5.0	5.2	5.7	6.5	7.4	8.3	8.3	8.6
65°	5.9	5.6	5.4	5.6	5.9	6.9	7.9	9.0	11.5	13.0	13.7
62.5°	5.9	5.7	5.8	6.2	7.1	8.2	9.8	12.6	16.5	18.6	18.0
60°	5.9	5.9	6.3	7.1	8.1	9.3	11.8	15.7	20.8	24.5	22.3
57.5°	5.9	6.2	7.0	7.9	8.7	9.7	13.1	18.0	24.0	30.5	26.5
55°	6.1	6.7	7.5	8.4	9.3	10.1	13.7	19.2	26.0	30.0	26.1
52.5°	6.5	7.1	8.0	8.9	9.8	10.6	13.3	18.7	22.7	25.8	23.9
50°	6.9	7.6	8.4	9.3	10.4	11.4	11.8	16.2	19.4	20.8	20.6
47.5°	7.3	8.1	8.8	9.9	11.2	12.0	12.0	14.2	16.6	18.1	16.8
45°	7.7	8.5	9.3	10.8	12.2	12.9	13.6	13.1	16.9	17.9	17.2
42.5°	8.2	9.0	10.4	11.7	13.5	15.4	16.5	17.8	19.7	21.5	21.0
40°	8.5	9.4	11.8	14.5	15.8	19.4	22.8	24.9	25.7	27.4	27.4
37.5°	8.9	10.9	14.5	20.3	20.4	25.7	30.6	35.6	37.1	34.4	39.0
35°	9.3	12.5	21.9	28.9	30.0	34.1	42.3	49.9	54.4	51.8	56.1
32.5°	10.3	14.3	31.6	38.9	46.2	49.8	55.7	72.1	87.8	92.5	84.3
30°	12.2	23.1	42.6	49.9	67.0	78.3	81.8	103.8	136.7	165.5	222.1
27.5°	14.5	34.0	52.9	68.4	93.1	113.3	122.2	158.2	214.4	290.2	453.3
25°	16.9	45.4	63.9	92.0	127.2	150.7	165.3	216.0	310.3	552.3	857.1
22.5°	22.9	57.0	77.7	118.2	165.7	186.1	216.8	285.9	444.2	846.5	1352.0
20°	32.2	68.0	97.4	144.1	206.9	220.0	264.3	353.0	627.4	1236.7	1844.1
17.5°	41.3	80.4	118.9	174.7	238.6	264.9	310.3	414.1	781.1	1725.8	2483.0
15°	50.1	93.8	139.3	205.7	275.8	327.5	397.1	551.5	1074.9	2304.9	3328.7
12.5°	58.6	107.9	158.3	236.6	318.7	393.9	496.6	775.7	1598.9	2981.5	4509.6
10°	66.4	122.3	175.9	266.7	365.7	462.7	599.6	1020.9	2128.5	3570.2	5444.6
7.5°	84.6	144.2	195.7	295.5	414.9	532.3	703.6	1276.1	2606.5	4068.5	6225.9
5°	104.7	173.8	233.4	340.7	466.7	597.8	798.9	1528.9	3025.6	4478.9	6929.6
2.5°	124.4	202.4	270.2	385.6	516.4	654.7	857.9	1749.2	3354.4	4826.2	7536.9
0°	142.8	229.4	305.5	427.2	561.8	706.9	908.2	1941.6	3604.6	5107.3	8015.5
-2.5°	165.3	258.3	344.6	466.7	577.0	708.4	909.0	1870.6	3659.0	5372.9	7836.0
-5°	184.7	284.6	380.8	502.7	590.6	706.2	901.6	1762.1	3628.9	5515.2	7691.3
-7.5°	200.3	308.1	413.5	531.3	603.1	713.5	919.2	1786.0	3579.0	5515.2	7600.5
-10°	209.4	314.8	413.7	529.7	611.2	722.7	931.2	1743.8	3426.5	5400.9	7416.0
-12.5°	201.3	306.5	405.1	522.8	616.3	724.6	927.3	1624.4	3169.4	5168.1	7185.6
-15°	191.7	296.6	393.0	510.0	618.2	718.3	905.7	1419.8	2748.0	4666.7	6907.8
-17.5°	181.0	285.2	377.1	491.0	616.6	703.2	853.0	1096.1	2202.5	3966.1	6270.3
-20°	169.7	272.6	357.4	465.3	608.2	668.3	773.0	972.4	1737.7	3180.7	5268.0



REPORT NUMBER: P731419 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-5S-CV2

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	158.0	258.9	336.9	440.0	559.0	626.3	698.2	841.7	1228.6	2297.9	3972.1
-25°	151.4	241.7	319.0	406.6	508.6	587.1	623.0	713.3	907.0	1686.9	2899.9
-27.5°	148.3	225.3	297.0	372.2	462.6	546.0	572.3	630.7	775.4	1088.2	1959.0
-30°	143.2	203.0	272.7	339.3	422.3	496.6	535.2	572.2	664.5	833.7	1316.0
-32.5°	131.8	180.4	246.6	311.0	382.6	454.7	512.7	548.2	606.3	694.6	854.6
-35°	117.8	163.6	220.1	280.3	343.4	415.7	481.2	533.2	561.3	622.2	729.3
-37.5°	105.1	145.5	193.5	249.4	308.2	375.2	447.2	503.9	545.3	574.3	651.1
-40°	91.6	126.0	170.7	220.4	273.3	334.5	400.8	466.7	519.1	562.6	596.7
-42.5°	77.9	110.3	148.0	191.9	241.9	295.6	352.5	417.2	482.2	538.8	581.8
-45°	67.2	94.0	125.1	167.0	211.2	258.0	309.5	363.1	432.9	497.1	550.6
-47.5°	56.0	78.3	106.9	141.6	182.2	223.9	267.3	320.9	378.9	442.3	503.4
-50°	45.8	65.8	88.7	120.0	154.7	191.6	230.2	279.2	332.6	386.7	442.6
-52.5°	39.1	52.9	74.1	98.7	129.3	162.2	197.9	239.6	287.0	336.4	386.0
-55°	32.1	44.0	59.7	80.5	104.5	134.0	167.5	203.8	241.0	286.0	330.5
-57.5°	25.9	36.0	48.4	63.8	83.7	105.8	136.9	169.2	203.3	238.2	275.2
-60°	20.1	28.5	39.0	51.0	64.6	84.2	106.4	134.3	164.6	195.2	226.4
-62.5°	14.7	21.5	30.1	40.0	51.4	63.6	81.5	102.6	125.3	150.7	176.9
-65°	12.4	15.3	21.5	29.8	38.9	49.5	61.2	73.7	92.2	110.3	128.4
-67.5°	9.9	12.4	15.3	19.4	27.1	35.6	44.6	55.1	66.2	76.4	88.2
-70°	9.0	9.7	11.8	14.4	17.4	22.0	29.6	37.5	45.4	53.1	61.7
-72.5°	8.5	8.9	9.6	10.3	12.5	15.3	18.4	21.8	26.9	33.0	39.0
-75°	7.9	8.2	8.6	9.1	9.8	10.5	11.6	14.1	16.7	19.3	21.9
-77.5°	7.4	7.6	7.8	8.0	8.3	8.8	9.3	10.0	10.8	11.9	13.0
-80°	6.8	7.0	7.2	7.3	7.4	7.5	7.6	7.8	8.1	8.5	9.1
-82.5°	6.3	6.4	6.6	6.7	6.6	6.4	6.2	6.2	6.4	6.6	6.8
-85°	5.8	5.9	6.0	6.1	5.9	5.6	5.4	5.2	5.3	5.3	5.4
-87.5°	5.3	5.3	5.3	5.4	5.1	4.9	4.6	4.4	4.4	4.4	4.5
-90°	4.4	4.1	3.8	3.5	3.5	3.5	3.5	3.5	3.2	2.9	2.6



REPORT NUMBER: P731419 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-5S-CV2

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	3.5	3.5	3.5	3.5	3.5	3.8	4.1	4.4	4.7	5.3	5.8
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.0	1.8
85°	3.1	2.9	2.7	2.5	2.3	2.3	2.3	2.3	2.3	2.0	1.8
82.5°	3.5	3.2	2.9	2.6	2.3	2.3	2.3	2.3	2.3	2.0	1.8
80°	3.5	3.3	3.2	3.1	3.1	2.9	2.8	2.6	2.3	2.0	1.8
77.5°	3.6	3.5	3.5	3.5	3.5	3.3	3.0	2.6	2.3	2.1	1.8
75°	3.6	3.5	3.6	3.6	3.5	3.4	3.3	3.3	3.3	3.1	2.8
72.5°	4.6	4.4	4.3	4.2	4.1	4.0	3.9	3.8	3.6	3.5	3.4
70°	6.3	6.2	6.0	5.8	5.6	5.4	5.2	4.9	4.5	4.5	4.5
67.5°	9.2	9.4	9.3	8.9	8.0	7.1	6.7	6.3	5.8	5.8	6.1
65°	13.5	11.8	10.7	9.8	9.0	8.3	7.9	7.4	6.9	7.1	8.1
62.5°	16.0	12.6	10.7	10.0	9.6	9.3	8.6	8.1	7.9	8.1	8.9
60°	18.6	13.5	10.1	9.5	8.9	8.3	8.2	8.2	8.2	8.3	8.7
57.5°	20.0	13.9	9.3	9.0	8.7	8.3	8.3	8.4	8.4	8.2	8.6
55°	19.6	13.9	9.6	9.2	9.1	9.2	9.2	8.7	8.4	8.2	8.5
52.5°	17.8	13.4	10.3	9.5	9.4	9.0	8.2	8.7	9.1	9.5	10.0
50°	15.9	12.6	11.0	10.2	10.3	10.3	10.3	10.9	11.5	11.9	12.4
47.5°	14.5	12.6	12.6	12.4	12.7	13.3	13.6	14.3	16.0	17.0	17.4
45°	14.6	15.5	16.2	16.8	16.8	20.1	22.4	23.8	25.3	26.7	27.9
42.5°	19.8	22.1	24.1	27.2	29.0	34.5	37.4	33.8	41.3	47.8	49.3
40°	30.4	33.6	40.9	48.9	58.5	62.6	82.1	83.0	91.5	112.6	119.5
37.5°	46.2	55.6	80.6	101.8	135.4	155.4	180.2	203.9	223.1	242.6	256.0
35°	72.0	119.8	157.5	223.6	268.8	291.7	321.1	356.3	371.1	432.8	480.0
32.5°	153.8	239.7	342.1	394.9	454.2	499.5	493.2	639.3	695.7	788.4	863.8
30°	284.2	489.5	764.4	764.4	753.8	1003.7	1095.2	1284.0	1477.5	1606.5	1914.7
27.5°	657.1	1092.6	1528.0	1536.8	1725.4	2247.4	2544.6	2633.9	3473.7	4013.0	4748.7
25°	1210.7	1927.6	2528.2	2807.8	3368.0	4218.4	4721.8	5322.1	6575.5	8003.7	8905.3
22.5°	1803.2	2567.1	3469.7	4106.2	5180.0	6273.9	7189.4	8514.0	10198.6	11792.3	12870.5
20°	2249.2	3146.7	4421.5	5758.5	7118.8	8490.1	9912.2	11732.3	14012.7	15953.3	17707.3
17.5°	3158.4	4107.4	5832.7	7651.2	9497.6	10962.6	13208.4	15391.2	18169.5	20985.6	23166.8
15°	4504.0	6033.7	7759.8	10118.8	12715.5	14957.5	17338.7	21169.3	24549.2	28168.6	31402.5
12.5°	6230.7	8258.0	10545.5	13258.3	16661.8	20180.2	23811.8	27855.1	32275.9	36623.4	41238.4
10°	7842.9	10629.2	13582.6	16920.5	20815.3	25258.5	29695.8	34277.1	40420.1	45987.7	50922.8
7.5°	8955.9	12237.6	15862.4	19942.4	24749.7	29475.5	34487.8	40716.9	47893.5	54206.8	59264.3
5°	9955.5	13674.1	17293.5	21418.0	27007.2	32408.8	38331.1	45912.9	54082.4	61005.7	66046.0
2.5°	10825.7	14827.4	18342.3	22497.5	28634.0	34254.1	40721.2	49756.8	59274.1	66208.8	71527.0
0°	11541.7	15447.0	18935.7	23215.6	29703.8	35492.2	42126.8	52175.1	63130.4	70135.9	75247.9
-2.5°	10848.6	14391.4	17835.0	22170.0	28708.3	34636.5	41807.2	52028.2	62779.6	70335.5	75613.7
-5°	10325.1	13560.4	16829.4	21118.9	26869.7	32366.6	39095.4	49606.9	60923.2	68557.7	73898.5
-7.5°	9919.4	12742.9	15715.1	19664.9	24925.6	30754.7	37969.4	48111.3	58804.4	66525.9	71365.1
-10°	9477.1	11902.7	15141.9	19123.0	24238.7	29795.9	36205.2	45587.0	56391.1	63820.4	69488.3
-12.5°	9342.3	11903.5	15166.3	18622.9	23328.6	28665.2	34775.9	42767.1	51048.4	58838.8	63809.3
-15°	9125.0	11724.1	14917.3	18168.4	22434.5	27574.2	32675.3	38580.9	45502.6	51131.7	56324.1
-17.5°	8699.0	11196.6	13596.4	16634.2	20786.4	25551.2	29416.3	34060.7	39054.6	43347.0	47263.6
-20°	7679.2	9377.7	11652.2	14516.9	18075.2	21933.4	25452.6	28803.5	32012.7	35282.8	37548.2



REPORT NUMBER: P731419 (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°	5876.0	7507.1	9414.1	11793.7	14614.4	17976.8	21086.8	23356.3	25909.1	28263.8	30199.7
-25°	4297.1	5492.2	7272.0	9302.5	11143.3	13836.4	16223.1	17755.8	19996.6	21756.9	23432.6
-27.5°	3107.5	4277.8	5729.3	7333.7	8713.9	10160.7	12267.5	13731.1	15493.5	16843.3	18241.0
-30°	2121.0	3409.8	4747.5	6059.8	7109.9	8202.9	9370.4	10814.1	12229.0	13363.0	14372.7
-32.5°	1471.1	2405.0	3712.3	4935.0	5884.0	6717.4	7484.5	8581.3	9640.0	10563.0	11319.9
-35°	901.2	1563.6	2468.9	3633.3	4636.5	5437.4	6144.9	6843.5	7520.9	8215.3	8800.4
-37.5°	762.5	920.6	1484.7	2286.5	3242.1	4133.5	4826.5	5403.3	5914.6	6443.1	6859.2
-40°	673.8	768.4	910.0	1203.3	1938.3	2679.3	3426.6	4047.3	4609.6	5078.3	5442.6
-42.5°	615.3	678.6	747.6	862.6	998.8	1362.0	2004.7	2631.2	3241.2	3752.6	4181.4
-45°	597.2	629.0	666.3	727.8	784.2	894.7	1014.0	1137.6	1622.5	2137.0	2590.4
-47.5°	555.9	606.8	640.6	667.1	698.5	748.5	794.3	852.7	964.1	1074.5	1164.8
-50°	501.1	556.7	603.5	648.8	680.8	702.6	719.3	749.6	794.0	837.1	872.0
-52.5°	434.8	488.7	543.1	598.1	643.6	685.7	725.2	752.6	773.3	790.9	800.0
-55°	374.5	419.6	465.0	520.4	575.3	628.1	678.7	721.9	762.2	799.8	821.2
-57.5°	315.6	354.4	394.9	444.4	493.3	541.2	590.3	640.1	688.8	734.3	760.7
-60°	259.4	293.8	330.5	370.5	412.9	457.1	499.4	541.6	583.5	620.6	642.4
-62.5°	204.4	233.5	263.2	294.8	328.2	363.1	398.2	433.7	469.1	498.9	517.3
-65°	148.5	172.1	194.9	218.0	241.4	267.9	295.7	322.8	348.9	369.3	382.7
-67.5°	103.8	119.1	133.0	146.7	163.3	182.1	202.0	221.5	240.2	254.3	263.8
-70°	70.5	78.9	86.6	95.5	106.4	117.6	129.4	140.6	151.3	159.6	165.9
-72.5°	45.0	50.6	56.1	62.2	68.1	74.5	81.3	87.7	93.7	97.9	101.2
-75°	24.3	27.3	31.8	36.0	39.9	44.6	49.4	53.9	58.1	60.3	61.8
-77.5°	14.8	16.9	18.8	20.7	22.4	25.0	27.8	30.6	33.4	34.7	35.7
-80°	9.7	10.7	11.7	12.7	13.7	15.2	16.8	18.3	19.9	20.4	20.7
-82.5°	6.9	7.3	7.6	8.0	8.4	9.3	10.4	11.4	12.4	13.1	13.8
-85°	5.5	5.5	5.6	5.6	5.7	6.2	6.8	7.3	7.9	8.3	8.7
-87.5°	4.5	4.5	4.5	4.6	4.6	4.6	4.7	4.7	4.7	5.0	5.3
-90°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.0	1.8



REPORT NUMBER: P731419 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-5S-CV2

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	6.4	7.0	6.5	5.9	6.5	7.0	6.4	5.8	5.3	4.7	4.4
87.5°	1.5	1.2	0.6	0.0	0.6	1.2	1.5	1.8	2.0	2.3	2.3
85°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.0	2.3	2.3
82.5°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.0	2.3	2.3
80°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.0	2.3	2.6
77.5°	1.5	1.2	1.7	2.3	1.7	1.2	1.5	1.8	2.1	2.3	2.6
75°	2.6	2.3	2.3	2.3	2.3	2.3	2.6	2.8	3.1	3.3	3.3
72.5°	3.4	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.5	3.6	3.8
70°	4.6	4.7	4.7	4.7	4.7	4.7	4.6	4.5	4.5	4.5	4.9
67.5°	6.5	6.9	7.0	7.0	7.0	6.9	6.5	6.1	5.8	5.8	6.3
65°	9.1	10.2	10.0	9.4	10.0	10.2	9.1	8.1	7.1	6.9	7.4
62.5°	9.7	10.4	10.5	10.5	10.5	10.4	9.7	8.9	8.1	7.9	8.1
60°	9.0	9.4	9.4	9.4	9.4	9.4	9.0	8.7	8.3	8.2	8.2
57.5°	8.9	9.3	9.4	9.4	9.4	9.3	8.9	8.6	8.2	8.4	8.4
55°	8.9	9.3	9.4	9.4	9.4	9.3	8.9	8.5	8.2	8.4	8.7
52.5°	10.3	10.4	10.5	10.5	10.5	10.4	10.3	10.0	9.5	9.1	8.7
50°	13.0	13.6	13.2	11.7	13.2	13.6	13.0	12.4	11.9	11.5	10.9
47.5°	17.3	16.8	16.3	16.4	16.3	16.8	17.3	17.4	17.0	16.0	14.3
45°	28.3	28.0	27.8	28.1	27.8	28.0	28.3	27.9	26.7	25.3	23.8
42.5°	51.0	51.1	50.4	49.2	50.4	51.1	51.0	49.3	47.8	41.3	33.8
40°	119.1	109.2	95.7	87.8	95.7	109.2	119.1	119.5	112.6	91.5	83.0
37.5°	268.3	276.1	276.8	271.5	276.8	276.1	268.3	256.0	242.6	223.1	203.9
35°	509.8	528.0	529.0	519.6	529.0	528.0	509.8	480.0	432.8	371.1	356.3
32.5°	862.6	903.7	919.1	915.2	919.1	903.7	862.6	863.8	788.4	695.7	639.3
30°	1771.4	1783.6	1657.5	1426.6	1657.5	1783.6	1771.4	1914.7	1606.5	1477.5	1284.0
27.5°	5147.8	5622.9	5795.2	5719.3	5795.2	5622.9	5147.8	4748.7	4013.0	3473.7	2633.9
25°	9164.2	9477.3	9789.8	9826.0	9789.8	9477.3	9164.2	8905.3	8003.7	6575.5	5322.1
22.5°	13617.3	14062.2	14484.5	14387.9	14484.5	14062.2	13617.3	12870.5	11792.3	10198.6	8514.0
20°	18821.3	19128.1	19439.7	19094.9	19439.7	19128.1	18821.3	17707.3	15953.3	14012.7	11732.3
17.5°	25451.4	26896.1	28178.5	27598.4	28178.5	26896.1	25451.4	23166.8	20985.6	18169.5	15391.2
15°	34447.3	36961.6	38436.3	38358.3	38436.3	36961.6	34447.3	31402.5	28168.6	24549.2	21169.3
12.5°	44813.7	47441.3	48946.2	48634.9	48946.2	47441.3	44813.7	41238.4	36623.4	32275.9	27855.1
10°	54166.5	56229.8	58017.9	58718.3	58017.9	56229.8	54166.5	50922.8	45987.7	40420.1	34277.1
7.5°	62427.3	63964.6	65456.1	65722.7	65456.1	63964.6	62427.3	59264.3	54206.8	47893.5	40716.9
5°	69227.6	71405.6	72248.7	72583.1	72248.7	71405.6	69227.6	66046.0	61005.7	54082.4	45912.9
2.5°	74716.0	76708.3	77763.0	77451.6	77763.0	76708.3	74716.0	71527.0	66208.8	59274.1	49756.8
0°	77868.8	79445.8	80307.2	80101.2	80307.2	79445.8	77868.8	75247.9	70135.9	63130.4	52175.1
-2.5°	78179.6	79240.0	79913.8	79649.5	79913.8	79240.0	78179.6	75613.7	70335.5	62779.6	52028.2
-5°	76029.5	76892.4	77246.5	77397.8	77246.5	76892.4	76029.5	73898.5	68557.7	60923.2	49606.9
-7.5°	73067.1	74226.3	74049.9	74354.9	74049.9	74226.3	73067.1	71365.1	66525.9	58804.4	48111.3
-10°	71302.6	72372.4	72217.6	72299.9	72217.6	72372.4	71302.6	69488.3	63820.4	56391.1	45587.0
-12.5°	67021.5	68574.9	68813.3	69080.9	68813.3	68574.9	67021.5	63809.3	58838.8	51048.4	42767.1
-15°	59732.2	61439.0	62471.0	62703.3	62471.0	61439.0	59732.2	56324.1	51131.7	45502.6	38580.9
-17.5°	50519.8	52880.2	54539.6	54925.3	54539.6	52880.2	50519.8	47263.6	43347.0	39054.6	34060.7
-20°	40314.6	42004.2	42864.1	43327.5	42864.1	42004.2	40314.6	37548.2	35282.8	32012.7	28803.5



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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°	31731.2	32847.1	33326.1	33404.4	33326.1	32847.1	31731.2	30199.7	28263.8	25909.1	23356.3
-25°	24789.7	25550.3	25876.3	26357.9	25876.3	25550.3	24789.7	23432.6	21756.9	19996.6	17755.8
-27.5°	19237.6	19906.4	20204.6	20647.9	20204.6	19906.4	19237.6	18241.0	16843.3	15493.5	13731.1
-30°	15053.8	15456.7	15557.3	15579.3	15557.3	15456.7	15053.8	14372.7	13363.0	12229.0	10814.1
-32.5°	11907.6	12361.3	12632.2	12753.0	12632.2	12361.3	11907.6	11319.9	10563.0	9640.0	8581.3
-35°	9238.6	9537.6	9715.7	9916.1	9715.7	9537.6	9238.6	8800.4	8215.3	7520.9	6843.5
-37.5°	7182.7	7404.5	7527.1	7568.4	7527.1	7404.5	7182.7	6859.2	6443.1	5914.6	5403.3
-40°	5733.2	5953.4	6085.6	6105.5	6085.6	5953.4	5733.2	5442.6	5078.3	4609.6	4047.3
-42.5°	4507.1	4781.5	4958.9	4999.6	4958.9	4781.5	4507.1	4181.4	3752.6	3241.2	2631.2
-45°	2921.9	3177.3	3312.5	3303.8	3312.5	3177.3	2921.9	2590.4	2137.0	1622.5	1137.6
-47.5°	1222.5	1263.6	1281.3	1275.6	1281.3	1263.6	1222.5	1164.8	1074.5	964.1	852.7
-50°	899.5	922.8	935.6	938.6	935.6	922.8	899.5	872.0	837.1	794.0	749.6
-52.5°	807.8	816.4	819.3	819.2	819.3	816.4	807.8	800.0	790.9	773.3	752.6
-55°	841.0	859.8	867.2	867.2	867.2	859.8	841.0	821.2	799.8	762.2	721.9
-57.5°	784.6	805.8	815.6	818.1	815.6	805.8	784.6	760.7	734.3	688.8	640.1
-60°	662.0	679.0	686.4	688.1	686.4	679.0	662.0	642.4	620.6	583.5	541.6
-62.5°	533.0	545.9	549.9	548.9	549.9	545.9	533.0	517.3	498.9	469.1	433.7
-65°	393.9	402.8	403.4	400.2	403.4	402.8	393.9	382.7	369.3	348.9	322.8
-67.5°	271.4	277.0	277.3	275.0	277.3	277.0	271.4	263.8	254.3	240.2	221.5
-70°	171.2	175.5	175.7	174.4	175.7	175.5	171.2	165.9	159.6	151.3	140.6
-72.5°	104.1	106.4	108.5	110.0	108.5	106.4	104.1	101.2	97.9	93.7	87.7
-75°	63.0	63.8	63.7	63.2	63.7	63.8	63.0	61.8	60.3	58.1	53.9
-77.5°	36.5	37.2	38.5	39.8	38.5	37.2	36.5	35.7	34.7	33.4	30.6
-80°	20.9	21.0	21.6	22.2	21.6	21.0	20.9	20.7	20.4	19.9	18.3
-82.5°	14.5	15.1	15.2	15.2	15.2	15.1	14.5	13.8	13.1	12.4	11.4
-85°	9.0	9.4	9.9	10.5	9.9	9.4	9.0	8.7	8.3	7.9	7.3
-87.5°	5.6	5.9	5.9	5.9	5.9	5.9	5.6	5.3	5.0	4.7	4.7
-90°	1.5	1.2	0.6	0.0	0.6	1.2	1.5	1.8	2.0	2.3	2.3



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	4.1	3.8	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.6	2.9	3.2	3.5
85°	2.3	2.3	2.3	2.5	2.7	2.9	3.1	3.1	3.2	3.3	3.5
82.5°	2.3	2.3	2.3	2.6	2.9	3.2	3.5	3.5	3.5	3.5	3.5
80°	2.8	2.9	3.1	3.1	3.2	3.3	3.5	3.6	3.5	3.5	3.6
77.5°	3.0	3.3	3.5	3.5	3.5	3.5	3.6	3.9	4.1	4.2	4.2
75°	3.3	3.4	3.5	3.6	3.6	3.5	3.6	3.9	4.2	4.5	4.7
72.5°	3.9	4.0	4.1	4.2	4.3	4.4	4.6	4.8	4.9	4.8	4.7
70°	5.2	5.4	5.6	5.8	6.0	6.2	6.3	6.4	6.4	6.5	6.0
67.5°	6.7	7.1	8.0	8.9	9.3	9.4	9.2	8.6	8.3	8.3	7.4
65°	7.9	8.3	9.0	9.8	10.7	11.8	13.5	13.7	13.0	11.5	9.0
62.5°	8.6	9.3	9.6	10.0	10.7	12.6	16.0	18.0	18.6	16.5	12.6
60°	8.2	8.3	8.9	9.5	10.1	13.5	18.6	22.3	24.5	20.8	15.7
57.5°	8.3	8.3	8.7	9.0	9.3	13.9	20.0	26.5	30.5	24.0	18.0
55°	9.2	9.2	9.1	9.2	9.6	13.9	19.6	26.1	30.0	26.0	19.2
52.5°	8.2	9.0	9.4	9.5	10.3	13.4	17.8	23.9	25.8	22.7	18.7
50°	10.3	10.3	10.3	10.2	11.0	12.6	15.9	20.6	20.8	19.4	16.2
47.5°	13.6	13.3	12.7	12.4	12.6	12.6	14.5	16.8	18.1	16.6	14.2
45°	22.4	20.1	16.8	16.8	16.2	15.5	14.6	17.2	17.9	16.9	13.1
42.5°	37.4	34.5	29.0	27.2	24.1	22.1	19.8	21.0	21.5	19.7	17.8
40°	82.1	62.6	58.5	48.9	40.9	33.6	30.4	27.4	27.4	25.7	24.9
37.5°	180.2	155.4	135.4	101.8	80.6	55.6	46.2	39.0	34.4	37.1	35.6
35°	321.1	291.7	268.8	223.6	157.5	119.8	72.0	56.1	51.8	54.4	49.9
32.5°	493.2	499.5	454.2	394.9	342.1	239.7	153.8	84.3	92.5	87.8	72.1
30°	1095.2	1003.7	753.8	764.4	764.4	489.5	284.2	222.1	165.5	136.7	103.8
27.5°	2544.6	2247.4	1725.4	1536.8	1528.0	1092.6	657.1	453.3	290.2	214.4	158.2
25°	4721.8	4218.4	3368.0	2807.8	2528.2	1927.6	1210.7	857.1	552.3	310.3	216.0
22.5°	7189.4	6273.9	5180.0	4106.2	3469.7	2567.1	1803.2	1352.0	846.5	444.2	285.9
20°	9912.2	8490.1	7118.8	5758.5	4421.5	3146.7	2249.2	1844.1	1236.7	627.4	353.0
17.5°	13208.4	10962.6	9497.6	7651.2	5832.7	4107.4	3158.4	2483.0	1725.8	781.1	414.1
15°	17338.7	14957.5	12715.5	10118.8	7759.8	6033.7	4504.0	3328.7	2304.9	1074.9	551.5
12.5°	23811.8	20180.2	16661.8	13258.3	10545.5	8258.0	6230.7	4509.6	2981.5	1598.9	775.7
10°	29695.8	25258.5	20815.3	16920.5	13582.6	10629.2	7842.9	5444.6	3570.2	2128.5	1020.9
7.5°	34487.8	29475.5	24749.7	19942.4	15862.4	12237.6	8955.9	6225.9	4068.5	2606.5	1276.1
5°	38331.1	32408.8	27007.2	21418.0	17293.5	13674.1	9955.5	6929.6	4478.9	3025.6	1528.9
2.5°	40721.2	34254.1	28634.0	22497.5	18342.3	14827.4	10825.7	7536.9	4826.2	3354.4	1749.2
0°	42126.8	35492.2	29703.8	23215.6	18935.7	15447.0	11541.7	8015.5	5107.3	3604.6	1941.6
-2.5°	41807.2	34636.5	28708.3	22170.0	17835.0	14391.4	10848.6	7836.0	5372.9	3659.0	1870.6
-5°	39095.4	32366.6	26869.7	21118.9	16829.4	13560.4	10325.1	7691.3	5515.2	3628.9	1762.1
-7.5°	37969.4	30754.7	24925.6	19664.9	15715.1	12742.9	9919.4	7600.5	5515.2	3579.0	1786.0
-10°	36205.2	29795.9	24238.7	19123.0	15141.9	11902.7	9477.1	7416.0	5400.9	3426.5	1743.8
-12.5°	34775.9	28665.2	23328.6	18622.9	15166.3	11903.5	9342.3	7185.6	5168.1	3169.4	1624.4
-15°	32675.3	27574.2	22434.5	18168.4	14917.3	11724.1	9125.0	6907.8	4666.7	2748.0	1419.8
-17.5°	29416.3	25551.2	20786.4	16634.2	13596.4	11196.6	8699.0	6270.3	3966.1	2202.5	1096.1
-20°	25452.6	21933.4	18075.2	14516.9	11652.2	9377.7	7679.2	5268.0	3180.7	1737.7	972.4



REPORT NUMBER: P731419 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	21086.8	17976.8	14614.4	11793.7	9414.1	7507.1	5876.0	3972.1	2297.9	1228.6	841.7
-25°	16223.1	13836.4	11143.3	9302.5	7272.0	5492.2	4297.1	2899.9	1686.9	907.0	713.3
-27.5°	12267.5	10160.7	8713.9	7333.7	5729.3	4277.8	3107.5	1959.0	1088.2	775.4	630.7
-30°	9370.4	8202.9	7109.9	6059.8	4747.5	3409.8	2121.0	1316.0	833.7	664.5	572.2
-32.5°	7484.5	6717.4	5884.0	4935.0	3712.3	2405.0	1471.1	854.6	694.6	606.3	548.2
-35°	6144.9	5437.4	4636.5	3633.3	2468.9	1563.6	901.2	729.3	622.2	561.3	533.2
-37.5°	4826.5	4133.5	3242.1	2286.5	1484.7	920.6	762.5	651.1	574.3	545.3	503.9
-40°	3426.6	2679.3	1938.3	1203.3	910.0	768.4	673.8	596.7	562.6	519.1	466.7
-42.5°	2004.7	1362.0	998.8	862.6	747.6	678.6	615.3	581.8	538.8	482.2	417.2
-45°	1014.0	894.7	784.2	727.8	666.3	629.0	597.2	550.6	497.1	432.9	363.1
-47.5°	794.3	748.5	698.5	667.1	640.6	606.8	555.9	503.4	442.3	378.9	320.9
-50°	719.3	702.6	680.8	648.8	603.5	556.7	501.1	442.6	386.7	332.6	279.2
-52.5°	725.2	685.7	643.6	598.1	543.1	488.7	434.8	386.0	336.4	287.0	239.6
-55°	678.7	628.1	575.3	520.4	465.0	419.6	374.5	330.5	286.0	241.0	203.8
-57.5°	590.3	541.2	493.3	444.4	394.9	354.4	315.6	275.2	238.2	203.3	169.2
-60°	499.4	457.1	412.9	370.5	330.5	293.8	259.4	226.4	195.2	164.6	134.3
-62.5°	398.2	363.1	328.2	294.8	263.2	233.5	204.4	176.9	150.7	125.3	102.6
-65°	295.7	267.9	241.4	218.0	194.9	172.1	148.5	128.4	110.3	92.2	73.7
-67.5°	202.0	182.1	163.3	146.7	133.0	119.1	103.8	88.2	76.4	66.2	55.1
-70°	129.4	117.6	106.4	95.5	86.6	78.9	70.5	61.7	53.1	45.4	37.5
-72.5°	81.3	74.5	68.1	62.2	56.1	50.6	45.0	39.0	33.0	26.9	21.8
-75°	49.4	44.6	39.9	36.0	31.8	27.3	24.3	21.9	19.3	16.7	14.1
-77.5°	27.8	25.0	22.4	20.7	18.8	16.9	14.8	13.0	11.9	10.8	10.0
-80°	16.8	15.2	13.7	12.7	11.7	10.7	9.7	9.1	8.5	8.1	7.8
-82.5°	10.4	9.3	8.4	8.0	7.6	7.3	6.9	6.8	6.6	6.4	6.2
-85°	6.8	6.2	5.7	5.6	5.6	5.5	5.5	5.4	5.3	5.3	5.2
-87.5°	4.7	4.6	4.6	4.6	4.5	4.5	4.5	4.5	4.4	4.4	4.4
-90°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.6	2.9	3.2	3.5



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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°	3.8	4.1	4.4	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
87.5°	3.7	3.9	4.0	4.2	4.3	4.4	4.5	4.7	4.7	4.7	4.7
85°	3.8	4.1	4.4	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
82.5°	3.8	4.1	4.4	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
80°	3.9	4.2	4.5	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
77.5°	4.2	4.3	4.5	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
75°	4.7	4.6	4.6	4.7	4.8	4.7	4.7	4.7	4.8	4.7	4.7
72.5°	4.7	4.7	4.7	4.8	5.0	5.0	4.9	4.8	5.0	5.0	4.8
70°	5.3	4.8	4.7	4.9	5.2	5.4	5.4	5.2	5.2	5.2	5.1
67.5°	6.5	5.7	5.2	5.0	5.2	5.5	5.8	5.6	5.4	5.5	5.4
65°	7.9	6.9	5.9	5.6	5.4	5.6	5.9	5.9	5.7	5.6	5.7
62.5°	9.8	8.2	7.1	6.2	5.8	5.7	5.9	5.9	5.9	5.8	5.8
60°	11.8	9.3	8.1	7.1	6.3	5.9	5.9	5.9	5.9	5.9	5.9
57.5°	13.1	9.7	8.7	7.9	7.0	6.2	5.9	5.9	5.9	5.9	5.9
55°	13.7	10.1	9.3	8.4	7.5	6.7	6.1	5.9	5.9	5.9	5.9
52.5°	13.3	10.6	9.8	8.9	8.0	7.1	6.5	5.9	5.9	5.9	5.9
50°	11.8	11.4	10.4	9.3	8.4	7.6	6.9	6.2	5.9	5.9	5.9
47.5°	12.0	12.0	11.2	9.9	8.8	8.1	7.3	6.6	5.9	5.9	5.9
45°	13.6	12.9	12.2	10.8	9.3	8.5	7.7	7.0	6.2	5.9	5.9
42.5°	16.5	15.4	13.5	11.7	10.4	9.0	8.2	7.3	6.5	6.0	5.9
40°	22.8	19.4	15.8	14.5	11.8	9.4	8.5	7.7	6.8	6.2	6.0
37.5°	30.6	25.7	20.4	20.3	14.5	10.9	8.9	8.0	7.2	6.5	6.1
35°	42.3	34.1	30.0	28.9	21.9	12.5	9.3	8.3	7.6	6.8	6.3
32.5°	55.7	49.8	46.2	38.9	31.6	14.3	10.3	8.9	8.1	7.1	6.4
30°	81.8	78.3	67.0	49.9	42.6	23.1	12.2	9.6	8.6	7.4	6.6
27.5°	122.2	113.3	93.1	68.4	52.9	34.0	14.5	10.4	9.1	7.8	6.9
25°	165.3	150.7	127.2	92.0	63.9	45.4	16.9	11.2	9.6	8.2	7.1
22.5°	216.8	186.1	165.7	118.2	77.7	57.0	22.9	13.2	10.3	8.6	7.3
20°	264.3	220.0	206.9	144.1	97.4	68.0	32.2	15.2	11.0	9.0	7.5
17.5°	310.3	264.9	238.6	174.7	118.9	80.4	41.3	17.3	11.7	9.4	7.8
15°	397.1	327.5	275.8	205.7	139.3	93.8	50.1	19.3	12.4	9.8	7.9
12.5°	496.6	393.9	318.7	236.6	158.3	107.9	58.6	21.3	13.2	10.1	8.0
10°	599.6	462.7	365.7	266.7	175.9	122.3	66.4	24.0	14.2	10.5	8.1
7.5°	703.6	532.3	414.9	295.5	195.7	144.2	84.6	28.3	15.4	10.8	8.1
5°	798.9	597.8	466.7	340.7	233.4	173.8	104.7	32.7	16.6	11.2	8.2
2.5°	857.9	654.7	516.4	385.6	270.2	202.4	124.4	37.0	17.7	11.5	8.2
0°	908.2	706.9	561.8	427.2	305.5	229.4	142.8	41.0	18.7	11.7	8.2
-2.5°	909.0	708.4	577.0	466.7	344.6	258.3	165.3	53.0	25.6	14.9	9.3
-5°	901.6	706.2	590.6	502.7	380.8	284.6	184.7	64.2	32.3	17.9	10.3
-7.5°	919.2	713.5	603.1	531.3	413.5	308.1	200.3	74.4	38.4	20.6	11.3
-10°	931.2	722.7	611.2	529.7	413.7	314.8	209.4	83.3	43.7	23.0	12.2
-12.5°	927.3	724.6	616.3	522.8	405.1	306.5	201.3	89.5	48.2	25.0	13.0
-15°	905.7	718.3	618.2	510.0	393.0	296.6	191.7	93.7	52.1	26.9	13.6
-17.5°	853.0	703.2	616.6	491.0	377.1	285.2	181.0	96.5	54.9	28.7	14.6
-20°	773.0	668.3	608.2	465.3	357.4	272.6	169.7	97.8	56.6	30.0	15.6



REPORT NUMBER: P731419 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-5S-CV2

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	698.2	626.3	559.0	440.0	336.9	258.9	158.0	97.5	57.2	30.4	16.4
-25°	623.0	587.1	508.6	406.6	319.0	241.7	151.4	95.6	56.4	30.1	16.8
-27.5°	572.3	546.0	462.6	372.2	297.0	225.3	148.3	94.4	55.0	28.9	16.8
-30°	535.2	496.6	422.3	339.3	272.7	203.0	143.2	91.7	53.6	28.2	16.5
-32.5°	512.7	454.7	382.6	311.0	246.6	180.4	131.8	87.1	51.0	27.9	16.2
-35°	481.2	415.7	343.4	280.3	220.1	163.6	117.8	80.6	47.2	26.9	15.8
-37.5°	447.2	375.2	308.2	249.4	193.5	145.5	105.1	71.1	42.1	25.3	15.0
-40°	400.8	334.5	273.3	220.4	170.7	126.0	91.6	62.3	38.7	23.2	14.0
-42.5°	352.5	295.6	241.9	191.9	148.0	110.3	77.9	53.0	34.8	21.3	12.6
-45°	309.5	258.0	211.2	167.0	125.1	94.0	67.2	43.9	30.4	19.3	11.4
-47.5°	267.3	223.9	182.2	141.6	106.9	78.3	56.0	38.6	25.7	16.9	10.7
-50°	230.2	191.6	154.7	120.0	88.7	65.8	45.8	33.0	22.3	14.0	9.9
-52.5°	197.9	162.2	129.3	98.7	74.1	52.9	39.1	27.2	18.6	12.2	9.0
-55°	167.5	134.0	104.5	80.5	59.7	44.0	32.1	22.7	14.7	11.0	8.0
-57.5°	136.9	105.8	83.7	63.8	48.4	36.0	25.9	17.9	12.6	9.6	7.8
-60°	106.4	84.2	64.6	51.0	39.0	28.5	20.1	13.8	10.9	8.4	7.6
-62.5°	81.5	63.6	51.4	40.0	30.1	21.5	14.7	11.9	9.2	8.1	7.3
-65°	61.2	49.5	38.9	29.8	21.5	15.3	12.4	9.8	8.5	7.8	7.0
-67.5°	44.6	35.6	27.1	19.4	15.3	12.4	9.9	8.9	8.2	7.4	6.8
-70°	29.6	22.0	17.4	14.4	11.8	9.7	9.0	8.4	7.8	7.1	6.5
-72.5°	18.4	15.3	12.5	10.3	9.6	8.9	8.5	8.0	7.4	6.8	6.2
-75°	11.6	10.5	9.8	9.1	8.6	8.2	7.9	7.5	7.0	6.4	6.1
-77.5°	9.3	8.8	8.3	8.0	7.8	7.6	7.4	7.1	6.6	6.3	6.0
-80°	7.6	7.5	7.4	7.3	7.2	7.0	6.8	6.6	6.3	6.1	5.9
-82.5°	6.2	6.4	6.6	6.7	6.6	6.4	6.3	6.2	6.0	5.9	5.8
-85°	5.4	5.6	5.9	6.1	6.0	5.9	5.8	5.7	5.6	5.5	5.4
-87.5°	4.6	4.9	5.1	5.4	5.3	5.3	5.3	5.2	5.2	5.1	5.1
-90°	3.5	3.5	3.5	3.5	3.8	4.1	4.4	4.7	4.7	4.7	4.7



REPORT NUMBER: P731419 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	4.7	4.7	4.7	4.7	4.7	4.7	4.7
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7
85°	4.7	4.7	4.7	4.7	4.7	4.7	4.7
82.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7
80°	4.7	4.7	4.7	4.7	4.7	4.7	4.7
77.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7
75°	4.7	4.7	4.7	4.7	4.7	4.7	4.7
72.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7
70°	4.7	4.7	4.7	4.7	4.7	4.7	4.7
67.5°	5.0	4.7	4.7	4.7	4.7	4.7	4.7
65°	5.3	4.8	4.7	4.7	4.7	4.7	4.7
62.5°	5.6	5.1	4.7	4.7	4.7	4.7	4.7
60°	5.9	5.3	4.7	4.7	4.7	4.7	4.7
57.5°	5.9	5.5	4.9	4.7	4.7	4.7	4.7
55°	5.9	5.7	5.0	4.7	4.7	4.7	4.7
52.5°	5.9	5.9	5.2	4.7	4.7	4.7	4.7
50°	5.9	5.9	5.4	4.7	4.7	4.7	4.7
47.5°	5.9	5.9	5.5	4.7	4.7	4.7	4.7
45°	5.9	5.9	5.7	4.8	4.7	4.7	4.7
42.5°	5.9	5.9	5.8	5.0	4.7	4.7	4.7
40°	5.9	5.9	5.9	5.0	4.7	4.7	4.7
37.5°	5.9	5.9	5.9	5.1	4.7	4.7	4.7
35°	5.9	5.9	5.9	5.2	4.7	4.7	4.7
32.5°	5.9	5.9	5.9	5.2	4.7	4.7	4.7
30°	6.0	5.9	5.9	5.2	4.7	4.7	4.7
27.5°	6.2	5.9	5.9	5.3	4.7	4.7	4.7
25°	6.3	5.9	5.8	5.2	4.7	4.7	4.7
22.5°	6.4	5.9	5.8	5.2	4.7	4.7	4.7
20°	6.6	5.9	5.8	5.2	4.7	4.7	4.7
17.5°	6.7	5.9	5.8	5.2	4.7	4.7	4.7
15°	6.8	5.9	5.8	5.1	4.7	4.7	4.7
12.5°	6.8	5.9	5.8	5.1	4.7	4.7	4.7
10°	6.9	5.9	5.9	5.0	4.7	4.7	4.7
7.5°	6.9	5.9	5.9	4.9	4.7	4.7	4.7
5°	7.0	5.9	5.9	4.9	4.7	4.7	4.7
2.5°	7.0	5.9	5.9	4.8	4.7	4.7	4.7
0°	7.0	5.9	5.9	4.7	4.7	4.7	4.7
-2.5°	7.5	6.2	5.9	4.8	4.7	4.7	4.7
-5°	7.9	6.4	5.9	4.9	4.7	4.7	4.7
-7.5°	8.3	6.6	5.9	4.9	4.7	4.7	4.7
-10°	8.7	6.8	5.9	5.0	4.7	4.7	4.7
-12.5°	9.0	7.0	5.8	5.1	4.7	4.7	4.7
-15°	9.3	7.1	5.8	5.1	4.7	4.7	4.7
-17.5°	9.6	7.2	5.8	5.2	4.7	4.7	4.7
-20°	9.9	7.3	5.8	5.2	4.7	4.7	4.7



REPORT NUMBER: P731419 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-5S-CV2

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	10.3	7.3	5.8	5.2	4.7	4.7	4.7
-25°	10.5	7.2	5.8	5.2	4.7	4.7	4.7
-27.5°	10.5	7.2	5.9	5.3	4.7	4.7	4.7
-30°	10.3	7.0	5.9	5.2	4.7	4.7	4.7
-32.5°	9.9	6.9	6.0	5.2	4.7	4.7	4.7
-35°	9.6	6.7	6.0	5.2	4.7	4.7	4.7
-37.5°	9.3	6.5	6.0	5.1	4.7	4.7	4.7
-40°	9.0	6.5	6.1	5.0	4.7	4.7	4.7
-42.5°	8.5	6.6	6.0	5.0	4.7	4.7	4.7
-45°	8.0	6.6	5.9	4.9	4.7	4.7	4.7
-47.5°	7.4	6.6	5.8	4.8	4.7	4.7	4.7
-50°	7.3	6.5	5.7	4.8	4.7	4.7	4.7
-52.5°	7.2	6.5	5.6	4.8	4.7	4.7	4.7
-55°	7.1	6.3	5.4	4.8	4.7	4.7	4.7
-57.5°	6.9	6.1	5.3	4.9	4.7	4.7	4.7
-60°	6.8	6.0	5.1	4.9	4.7	4.7	4.7
-62.5°	6.5	5.8	5.2	4.9	4.7	4.7	4.7
-65°	6.3	5.6	5.2	4.9	4.7	4.7	4.7
-67.5°	6.1	5.5	5.2	4.9	4.7	4.7	4.7
-70°	5.8	5.5	5.2	4.9	4.7	4.7	4.7
-72.5°	5.8	5.5	5.2	4.9	4.7	4.7	4.7
-75°	5.8	5.6	5.3	4.9	4.7	4.7	4.7
-77.5°	5.9	5.6	5.2	4.9	4.7	4.7	4.7
-80°	5.9	5.5	5.1	4.8	4.7	4.7	4.7
-82.5°	5.6	5.3	5.0	4.8	4.7	4.7	4.7
-85°	5.3	5.1	4.9	4.8	4.7	4.7	4.7
-87.5°	5.0	4.9	4.8	4.7	4.7	4.7	4.7
-90°	4.7	4.7	4.7	4.7	4.7	4.7	4.7

(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

