

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: P731416 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-70-4S-CV5**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731416 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-23)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-57-70-4S-CV5
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 4S BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

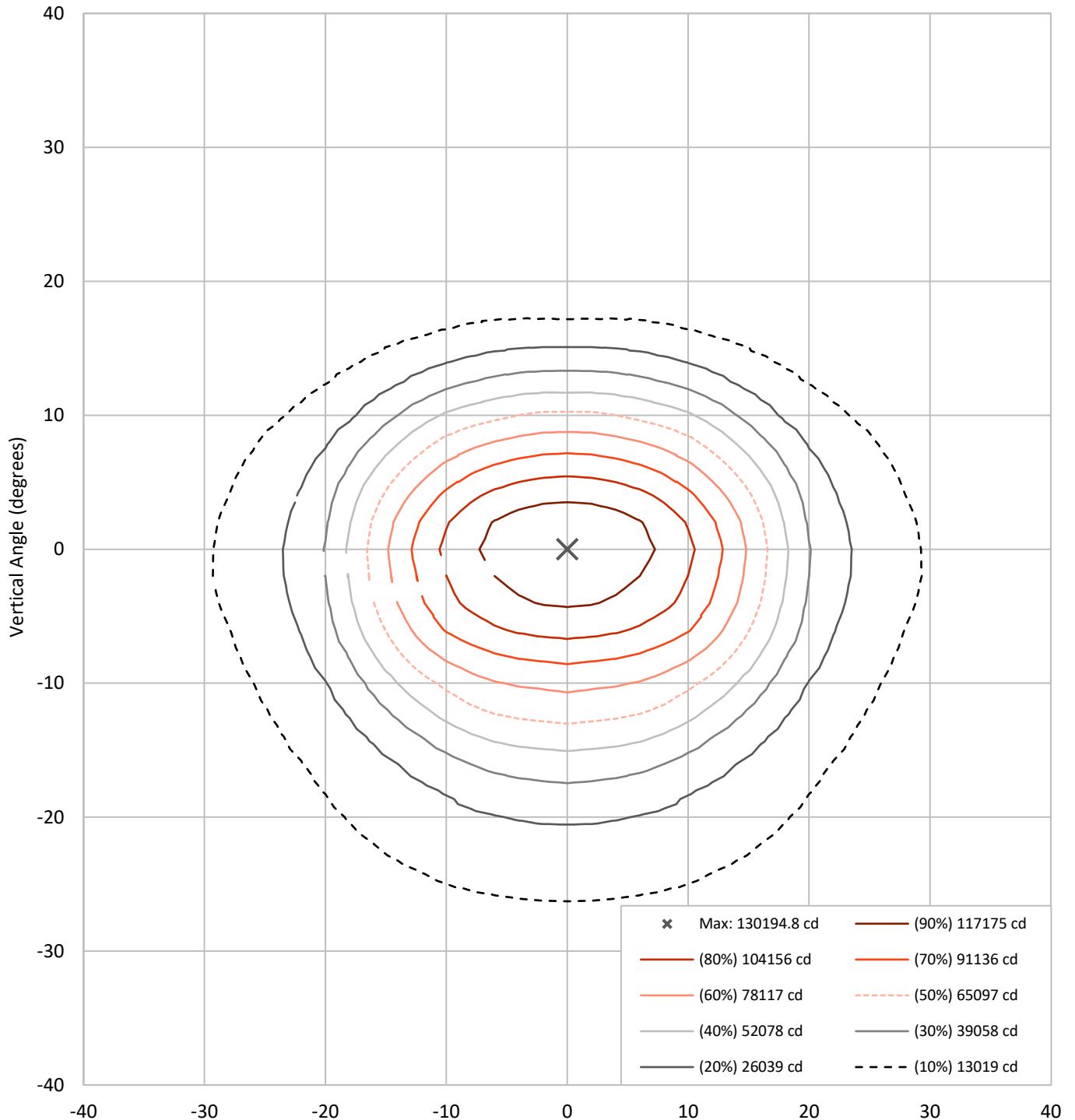
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 3V
Luminaire Lumens:	34369.2 lumens	Max Intensity:	130194.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	99.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	33.1°H x 23.4°V	Field Angle (10%):	58.5°H x 43.2°V
Beam Lumens:	17389.7 lumens	Field Lumens:	29640.4 lumens
Beam Efficiency:	50.6%	Field Efficiency:	86.2%

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





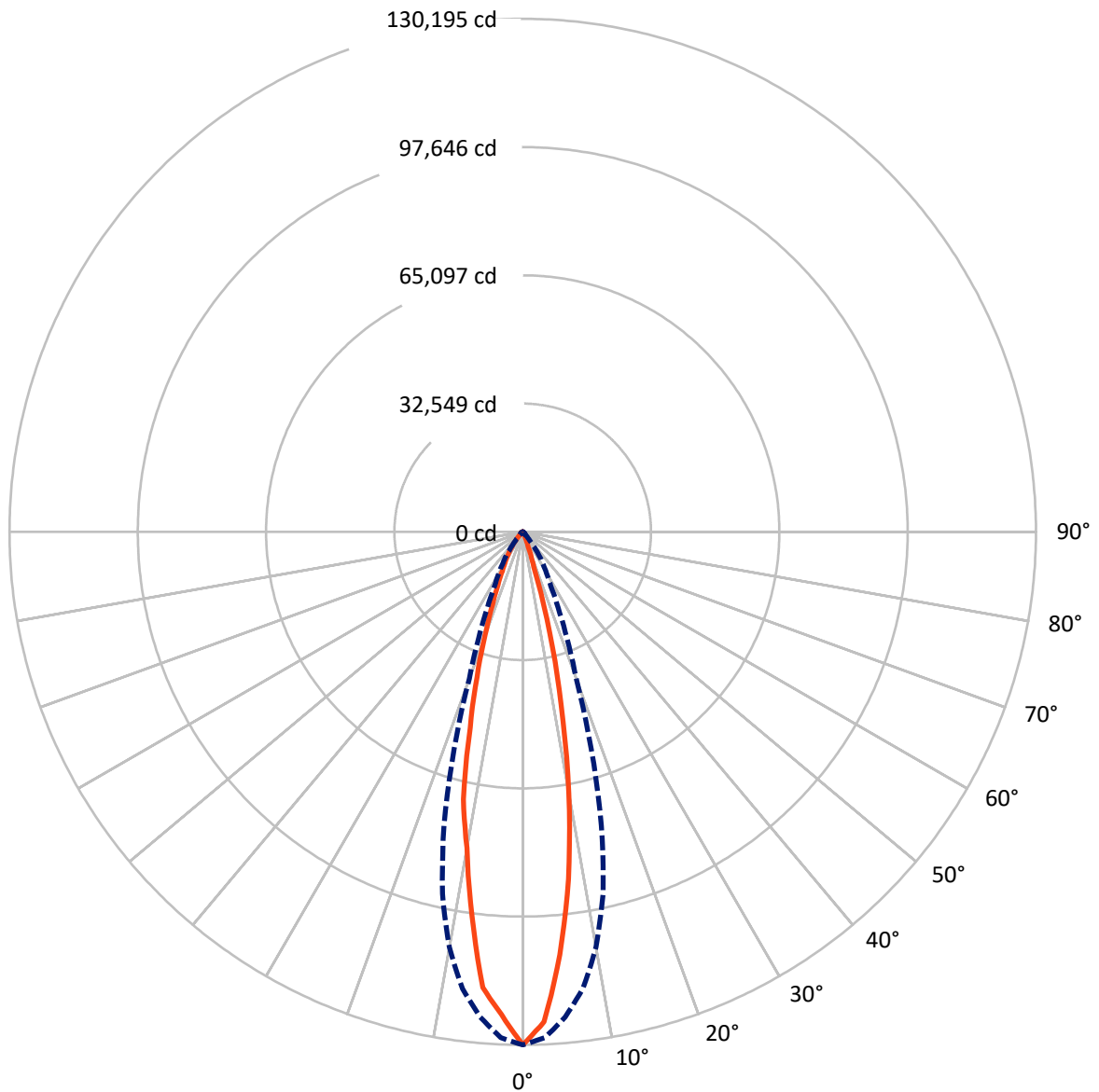
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Lumen Table

90	0.1		0.3		0.5		0.5		0.3		0.5		0.5		0.3		0.1		
80	0.1		0.3		0.5		0.5		0.3		0.5		0.5		0.3		0.1		
70	0.1	0.1	0.1	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.1	0.1	0.1			
60		0.1	0.2	0.5	0.5	0.2	0.1	0.1	0.1	0.1	0.2	0.5	0.5	0.2	0.1				
50	0.1	0.1	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.1	0.1			
40		0.1	0.3	0.5	0.7	1.5	2.7	3.9	3.9	2.7	1.5	0.7	0.5	0.3	0.1				
30	0.2	0.2	0.9	1.9	5.2	14.3	29.7	49.3	49.3	29.7	14.3	5.2	1.9	0.9	0.2	0.2			
20		0.6	2.9	7.8	46.4	144.9	441.6	825.3	825.3	441.6	144.9	46.4	7.8	2.9	0.6				
10	0.2	1.1	6.0	19.6	144.0	507.2	1756.0	2988.2	2988.2	1756.0	507.2	144.0	19.6	6.0	1.1	0.2			
0		1.5	7.4	23.5	160.4	559.6	1934.2	3175.1	3175.1	1934.2	559.6	160.4	23.5	7.4	1.5				
-10	0.3	1.6	6.5	16.5	95.1	308.4	855.9	1504.3	1504.3	855.9	308.4	95.1	16.5	6.5	1.6	0.3			
-20		1.5	5.5	11.0	39.7	154.2	317.8	462.7	462.7	317.8	154.2	39.7	11.0	5.5	1.5				
-30	0.3	1.3	4.6	8.6	16.1	48.0	109.0	154.7	154.7	109.0	48.0	16.1	8.6	4.6	1.3	0.3			
-40		0.8	3.3	7.1	11.5	17.2	24.8	32.6	32.6	24.8	17.2	11.5	7.1	3.3	0.8				
-50	0.2	0.4	1.7	4.5	8.1	11.3	13.9	15.6	15.6	13.9	11.3	8.1	4.5	1.7	0.4	0.2			
-60		0.2	0.6	1.7	3.4	5.5	7.3	8.4	8.4	7.3	5.5	3.4	1.7	0.6	0.2				
-70	0.1	0.5		1.6		4.2		6.0		4.2		1.6		0.5		0.1			
-80		0.5		1.6		4.2		6.0		4.2		1.6		0.5					
-90	0.1		0.5		1.6		4.2		6.0		4.2		1.6		0.5		0.1		

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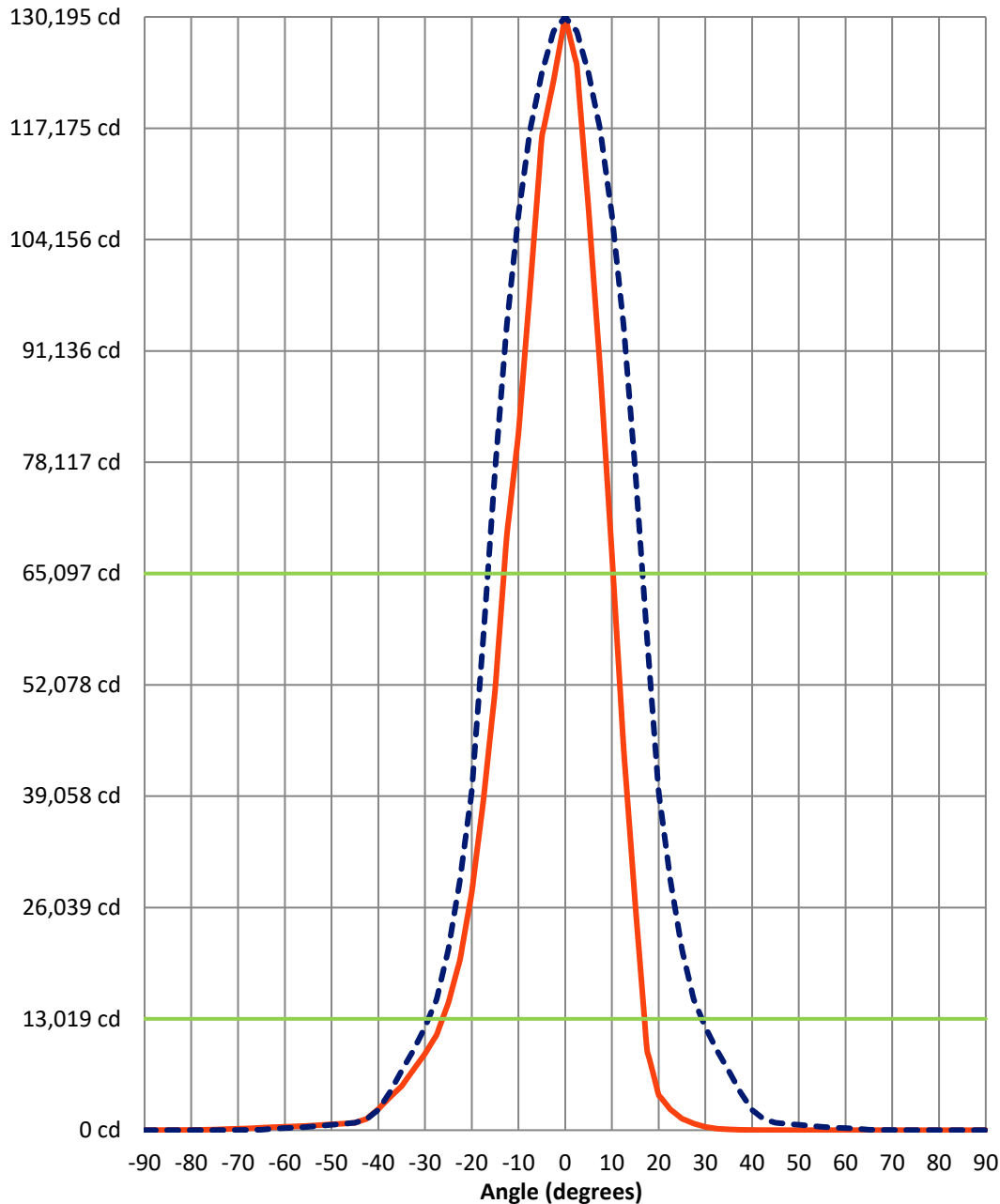
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 33.1°
 V Angle: 23.4°
 Lumens: 17389.7
 Efficiency: 50.6%

Field:
 H Angle: 58.5°
 V Angle: 43.2°
 Lumens: 29640.4
 Efficiency: 86.2%

Spill:
 Lumens: 4728.8
 Efficiency: 13.8%

— 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°	4.8	5.3	5.9	5.6	5.4	5.1	4.8	5.1	5.4	5.6	5.9
87.5°	4.8	4.8	4.9	4.9	5.0	5.0	5.1	5.0	5.0	4.9	4.8
85°	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.3	5.2	5.0	4.8
82.5°	4.8	4.9	5.1	5.2	5.4	5.5	5.7	5.6	5.4	5.2	5.1
80°	4.8	5.0	5.2	5.4	5.6	5.7	5.9	5.7	5.6	5.5	5.6
77.5°	4.8	5.0	5.3	5.5	5.7	5.9	5.9	5.8	5.7	5.8	5.9
75°	4.8	5.1	5.4	5.7	5.9	5.9	5.9	5.9	5.9	5.9	5.9
72.5°	4.8	5.1	5.5	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9
70°	4.8	5.2	5.6	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
67.5°	4.8	5.2	5.6	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
65°	4.8	5.3	5.7	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
62.5°	4.8	5.3	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
60°	4.8	5.3	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
57.5°	4.8	5.4	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
55°	4.8	5.4	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
52.5°	4.8	5.5	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
50°	4.8	5.5	5.9	5.9	5.9	5.9	5.9	6.0	5.9	5.9	6.4
47.5°	4.8	5.5	5.9	5.9	5.9	5.9	5.9	6.1	5.9	5.9	7.0
45°	4.8	5.6	5.9	5.9	5.9	5.9	6.0	6.2	6.0	6.3	7.4
42.5°	4.8	5.6	5.9	5.9	5.9	5.9	6.1	6.3	6.0	6.6	7.7
40°	4.8	5.6	5.9	5.9	5.9	5.9	6.3	6.3	6.2	6.9	8.0
37.5°	4.8	5.7	5.9	5.9	5.9	5.9	6.4	6.4	6.6	7.3	8.2
35°	4.8	5.7	5.9	5.9	5.9	6.0	6.6	6.5	6.9	7.8	8.4
32.5°	4.8	5.7	5.9	5.9	5.9	6.1	6.7	6.5	7.2	8.5	9.3
30°	4.8	5.8	5.9	5.9	5.9	6.2	6.8	6.7	7.5	9.3	10.3
27.5°	4.8	5.8	5.9	5.9	5.9	6.4	6.9	6.9	8.0	10.1	11.4
25°	4.8	5.8	5.9	5.9	5.9	6.5	6.9	7.2	8.6	11.1	12.8
22.5°	4.8	5.8	5.9	5.9	5.9	6.6	7.0	7.4	9.3	12.1	15.3
20°	4.8	5.8	5.9	5.9	5.9	6.7	7.1	7.6	10.1	13.2	17.9
17.5°	4.8	5.8	5.9	5.9	5.9	6.8	7.2	7.8	10.8	14.3	20.7
15°	4.8	5.9	5.9	5.9	5.9	6.9	7.3	8.2	11.6	15.5	23.6
12.5°	4.8	5.9	5.9	5.9	5.9	7.0	7.4	8.8	12.7	16.7	26.5
10°	4.8	5.9	5.9	5.9	5.9	7.0	7.6	9.4	14.0	19.1	30.2
7.5°	4.8	5.9	5.9	5.9	5.9	7.0	7.8	10.1	15.4	21.8	35.9
5°	4.8	5.9	5.9	5.9	5.9	7.1	8.0	10.7	16.7	24.5	41.6
2.5°	4.8	5.9	5.9	5.9	5.9	7.1	8.1	11.3	17.9	27.2	47.1
0°	4.8	5.9	5.9	5.9	5.9	7.1	8.3	11.9	19.0	29.7	52.3
-2.5°	4.8	5.9	5.9	5.9	5.9	7.2	9.1	13.6	22.4	36.0	61.7
-5°	4.8	5.9	5.9	5.9	5.9	7.3	9.8	15.1	25.6	41.9	70.5
-7.5°	4.8	5.9	5.9	5.9	5.9	7.4	10.5	16.6	28.5	47.4	78.5
-10°	4.8	5.9	5.9	5.9	5.9	7.5	11.1	17.9	31.1	52.2	85.5
-12.5°	4.8	5.9	5.9	5.9	5.9	7.5	11.6	19.0	33.2	56.3	91.8
-15°	4.8	5.9	5.9	5.9	5.9	7.5	12.0	19.9	35.3	60.3	96.9
-17.5°	4.8	5.9	5.9	5.9	5.9	7.5	12.2	20.9	37.2	63.3	100.8
-20°	4.8	5.8	5.9	5.9	5.9	7.5	12.4	21.8	38.4	65.3	103.2



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 CATALOG NUMBER: EPH-LS-08-0320N-57-70-4S-CV5

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.8	5.8	5.9	5.9	5.9	7.4	12.7	22.4	38.8	66.2	104.0
-25°	4.8	5.8	5.9	5.9	5.9	7.4	12.7	22.7	38.4	65.8	103.3
-27.5°	4.8	5.8	5.9	5.9	5.9	7.3	12.5	22.7	37.1	64.7	102.7
-30°	4.8	5.8	5.9	5.9	5.9	7.2	12.1	22.3	36.3	63.2	100.5
-32.5°	4.8	5.8	5.9	5.9	6.0	7.0	11.4	21.7	35.8	60.4	96.6
-35°	4.8	5.8	5.9	5.9	6.1	6.8	10.9	20.8	34.7	56.4	90.9
-37.5°	4.8	5.7	5.9	5.9	6.2	6.5	10.6	19.6	33.1	51.0	81.9
-40°	4.8	5.7	5.9	5.9	6.3	6.6	10.0	17.9	31.0	47.6	72.9
-42.5°	4.8	5.7	5.9	5.9	6.3	6.7	9.4	15.8	28.6	43.7	63.2
-45°	4.8	5.7	5.9	5.9	6.4	6.8	8.5	14.0	25.8	39.1	53.7
-47.5°	4.8	5.7	5.9	6.0	6.4	6.9	7.6	12.8	22.3	34.1	48.0
-50°	4.8	5.7	5.9	6.0	6.4	7.0	7.5	11.4	18.0	29.2	41.8
-52.5°	4.8	5.6	5.9	6.0	6.4	7.1	7.6	9.8	15.2	23.9	35.1
-55°	4.8	5.6	5.9	6.0	6.4	7.1	7.7	8.2	12.9	18.3	28.8
-57.5°	4.8	5.6	5.9	6.0	6.4	7.0	7.8	8.3	10.7	15.1	22.1
-60°	4.8	5.6	5.9	6.0	6.3	6.9	7.8	8.3	8.9	12.6	16.5
-62.5°	4.8	5.6	5.9	6.0	6.3	6.9	7.7	8.3	8.7	10.1	13.8
-65°	4.8	5.6	5.9	6.0	6.2	6.7	7.5	8.2	8.6	9.3	11.0
-67.5°	4.8	5.5	5.9	5.9	6.2	6.6	7.3	7.9	8.3	8.8	9.7
-70°	4.8	5.5	5.9	5.9	6.1	6.5	7.0	7.5	7.9	8.3	9.0
-72.5°	4.8	5.5	5.9	5.9	6.0	6.3	6.8	7.2	7.5	7.9	8.2
-75°	4.8	5.5	5.9	5.8	5.9	6.1	6.5	6.8	7.1	7.4	7.7
-77.5°	4.8	5.5	5.9	5.8	5.8	6.0	6.2	6.5	6.7	7.0	7.2
-80°	4.8	5.4	5.9	5.8	5.7	5.8	5.9	6.1	6.3	6.5	6.7
-82.5°	4.8	5.4	5.9	5.7	5.6	5.6	5.7	5.8	5.9	6.1	6.2
-85°	4.8	5.4	5.9	5.7	5.5	5.4	5.4	5.6	5.7	5.8	5.9
-87.5°	4.8	5.4	5.9	5.7	5.4	5.3	5.1	5.3	5.5	5.7	5.9
-90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	5.6	5.4	5.1	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.5	4.2	3.9
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.6	4.5	4.4
82.5°	5.1	5.1	5.0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
80°	5.5	5.4	5.1	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
77.5°	5.7	5.4	5.1	4.9	4.8	4.8	4.8	4.8	4.8	4.8	4.8
75°	5.7	5.4	5.2	4.9	4.8	4.8	4.8	5.0	5.2	5.2	5.1
72.5°	5.7	5.5	5.2	4.9	5.0	5.3	5.6	5.8	6.1	6.3	6.4
70°	5.8	5.5	5.4	5.5	5.7	6.0	6.5	7.2	7.8	8.3	9.0
67.5°	5.8	5.7	5.7	6.0	6.4	7.0	7.7	9.3	10.9	11.9	12.9
65°	5.9	5.9	6.0	6.4	7.0	8.6	10.3	12.2	15.2	16.9	17.6
62.5°	5.9	6.0	6.3	7.2	8.9	10.7	13.2	16.4	20.4	23.1	23.2
60°	5.9	6.0	7.0	8.7	10.7	13.0	16.2	20.7	26.5	30.8	28.1
57.5°	5.9	6.6	8.3	10.1	12.2	14.8	19.0	24.7	30.2	36.1	30.9
55°	6.2	7.6	9.2	11.1	13.4	16.3	20.6	25.4	31.5	33.2	27.4
52.5°	7.0	8.4	9.8	11.8	14.4	16.9	19.7	23.8	25.8	26.1	21.8
50°	7.7	8.8	10.1	12.3	14.8	16.6	17.2	19.6	19.8	18.0	15.6
47.5°	8.1	9.1	10.2	12.6	14.8	15.9	15.6	15.0	13.8	12.7	9.9
45°	8.5	9.5	10.5	12.8	14.7	15.1	13.7	10.9	11.3	10.1	9.4
42.5°	8.8	9.8	11.4	13.3	14.5	14.3	12.4	11.5	10.7	10.4	10.2
40°	9.1	10.2	12.6	14.2	14.5	14.0	14.1	13.5	11.6	12.3	12.4
37.5°	9.3	11.3	14.2	16.6	14.9	15.7	16.8	17.1	16.1	15.7	17.4
35°	9.6	12.6	17.3	20.0	18.4	19.0	21.3	22.2	22.4	22.4	23.6
32.5°	10.4	13.9	21.5	24.1	24.8	25.2	26.8	29.0	31.6	32.8	31.4
30°	12.0	17.8	26.3	29.1	32.2	36.6	35.6	37.3	43.2	45.6	47.8
27.5°	14.8	22.9	31.2	35.9	41.4	51.5	55.1	51.4	56.4	61.2	68.3
25°	17.9	35.7	36.6	43.6	55.9	71.2	80.9	85.0	74.0	82.2	101.4
22.5°	24.8	52.4	55.8	51.8	72.8	95.3	114.4	124.7	123.4	115.4	141.1
20°	37.0	69.4	78.4	80.0	96.1	122.9	152.8	170.2	186.7	215.4	290.9
17.5°	51.3	88.2	102.3	116.7	145.8	169.6	195.2	221.0	260.1	345.6	601.6
15°	67.3	108.4	127.4	156.5	199.8	239.7	270.8	294.0	363.1	542.2	994.9
12.5°	84.2	129.8	153.2	198.6	256.8	313.4	357.5	404.3	520.5	872.6	1620.3
10°	101.6	151.7	179.5	242.2	315.6	389.5	446.7	517.1	698.7	1246.7	2302.8
7.5°	121.0	175.2	206.3	286.2	375.2	466.5	537.0	630.7	880.5	1624.8	2989.6
5°	139.8	199.7	234.9	324.3	425.3	534.2	621.3	743.0	1060.4	1991.2	3657.0
2.5°	157.1	223.5	262.8	359.0	467.3	585.6	678.8	810.3	1184.9	2231.9	4148.3
0°	172.3	245.9	289.9	390.9	506.1	633.2	733.0	872.0	1285.4	2377.2	4441.9
-2.5°	178.1	254.6	301.0	399.0	511.5	641.3	742.9	877.4	1316.2	2436.1	4485.1
-5°	181.4	261.2	310.7	404.2	513.4	644.4	748.8	877.3	1308.5	2385.1	4274.3
-7.5°	182.4	265.7	319.0	404.9	503.7	623.7	719.5	831.2	1205.4	2174.2	3819.8
-10°	181.4	265.0	316.5	390.0	478.5	587.3	680.3	780.9	1086.5	1909.7	3314.3
-12.5°	178.0	260.2	311.8	374.2	452.5	548.3	639.1	727.3	954.5	1594.9	2793.7
-15°	173.6	254.4	306.8	358.1	426.2	507.3	596.6	671.1	817.0	1258.9	2277.0
-17.5°	168.3	248.1	301.9	342.4	400.6	464.9	555.0	624.1	715.7	1044.8	1861.1
-20°	162.4	241.3	297.2	327.4	376.7	432.6	515.0	585.2	662.7	875.9	1415.2



REPORT NUMBER: P731416 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-4S-CV5

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	156.3	234.4	290.4	319.1	360.9	410.4	474.8	544.0	608.8	689.6	1036.7
-25°	153.3	224.3	280.3	313.4	346.3	388.9	435.9	500.8	558.7	636.3	836.6
-27.5°	151.8	214.8	268.4	307.0	331.9	369.3	408.2	458.3	524.5	593.1	665.8
-30°	148.3	200.7	256.1	298.2	322.9	353.2	385.8	428.4	491.6	555.0	619.1
-32.5°	139.5	185.7	240.4	284.0	314.5	338.1	369.8	408.8	459.6	517.8	575.4
-35°	128.3	172.6	222.5	269.9	305.0	327.9	356.7	390.3	430.0	482.1	543.7
-37.5°	117.0	158.1	203.9	252.9	289.7	319.8	342.8	373.3	407.8	449.2	509.8
-40°	104.5	142.1	185.9	231.9	275.0	308.1	333.6	356.7	386.5	427.1	470.5
-42.5°	91.0	126.8	167.0	210.0	252.9	290.8	323.2	345.0	370.3	405.5	445.0
-45°	79.6	110.1	146.9	186.5	226.9	268.7	303.1	334.7	357.9	384.6	419.8
-47.5°	67.5	93.4	126.8	161.6	199.5	238.7	279.0	312.5	345.1	369.5	394.4
-50°	56.3	79.4	105.0	137.3	170.8	207.3	244.8	284.6	318.8	350.3	377.5
-52.5°	48.6	64.7	87.4	112.9	143.0	174.7	209.8	246.3	283.9	319.8	348.0
-55°	40.3	54.0	70.1	91.6	115.9	143.8	174.0	207.5	240.7	275.8	308.0
-57.5°	32.4	44.1	56.6	71.7	92.1	114.0	140.7	168.6	199.0	229.0	254.6
-60°	24.5	34.6	45.8	57.1	69.6	88.6	108.0	131.6	157.4	182.4	204.8
-62.5°	17.2	25.6	35.3	45.4	55.5	65.4	80.9	98.5	116.1	137.2	156.9
-65°	14.3	17.9	24.9	33.9	43.1	52.2	61.1	69.8	84.4	99.3	113.1
-67.5°	11.4	14.5	17.8	22.2	30.3	38.5	46.9	54.9	62.6	70.1	78.8
-70°	10.1	11.4	14.0	17.0	20.0	24.1	31.2	38.6	46.3	53.9	60.5
-72.5°	9.1	10.3	11.5	12.7	15.2	17.8	20.3	22.7	27.5	34.1	40.7
-75°	8.3	9.2	10.4	11.5	12.5	13.5	14.8	17.0	19.2	21.4	23.7
-77.5°	7.6	8.2	9.0	10.0	11.0	11.8	12.7	13.6	14.6	15.7	16.8
-80°	6.9	7.1	7.5	8.1	8.9	9.7	10.4	11.2	11.9	12.7	13.5
-82.5°	6.4	6.5	6.6	6.8	7.1	7.5	8.1	8.7	9.1	9.5	10.0
-85°	5.9	5.9	6.0	6.1	6.2	6.4	6.6	6.9	7.0	7.2	7.3
-87.5°	5.8	5.6	5.5	5.4	5.5	5.5	5.5	5.6	5.6	5.6	5.7
-90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.5	4.2	3.9



REPORT NUMBER: P731416 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-4S-CV5

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	4.8	5.4	5.9	6.5	7.1	7.7	8.3	8.9	9.5	10.1	10.7
87.5°	3.6	3.6	3.6	3.6	3.6	3.3	3.0	2.7	2.4	2.1	1.8
85°	4.4	4.2	4.0	3.8	3.6	3.3	3.0	2.7	2.4	2.1	1.8
82.5°	4.8	4.5	4.2	3.9	3.6	3.3	3.0	2.7	2.4	2.1	1.8
80°	4.8	4.5	4.2	3.9	3.6	3.3	3.0	2.7	2.4	2.1	1.8
77.5°	4.8	4.6	4.3	4.0	3.7	3.4	3.1	2.7	2.4	2.4	2.4
75°	4.9	4.7	4.6	4.5	4.2	4.0	3.8	3.6	3.4	3.2	3.0
72.5°	6.6	6.5	6.4	6.2	5.9	5.6	5.4	5.0	4.6	4.4	4.1
70°	9.7	10.1	9.8	9.1	8.1	7.3	6.8	6.3	5.8	5.3	4.8
67.5°	13.6	13.5	12.5	11.3	9.6	8.1	7.5	6.8	6.2	5.8	5.8
65°	17.5	16.3	14.7	12.7	10.4	8.2	7.6	6.9	6.3	5.9	5.9
62.5°	21.9	18.3	14.7	12.2	10.0	8.2	7.3	6.5	5.7	5.1	5.0
60°	23.6	17.5	12.6	10.5	8.7	7.3	6.4	5.7	5.2	4.8	4.8
57.5°	22.9	15.6	10.2	8.4	7.1	6.2	5.6	5.0	4.5	4.0	3.9
55°	19.5	12.7	7.6	6.5	5.9	5.2	4.7	4.3	4.0	3.6	3.6
52.5°	14.3	9.7	6.8	5.7	5.4	5.1	4.8	4.6	4.5	4.4	4.3
50°	10.5	7.5	6.5	5.8	5.6	5.6	5.8	5.8	5.7	5.5	5.4
47.5°	8.5	7.4	6.6	6.0	6.1	6.7	6.9	6.9	6.8	6.7	6.5
45°	8.2	7.6	7.2	7.6	8.0	8.3	8.3	8.1	8.5	8.6	8.5
42.5°	9.1	9.2	9.9	10.5	10.1	10.7	11.5	11.4	12.0	12.4	12.4
40°	12.8	12.5	14.3	14.9	15.1	15.8	17.8	17.6	18.5	21.0	21.5
37.5°	18.4	19.4	20.6	21.7	24.9	27.0	30.9	34.1	35.8	40.5	44.2
35°	25.9	28.5	29.2	35.5	42.0	48.1	53.6	60.3	63.1	73.7	81.1
32.5°	36.7	42.0	49.2	59.6	71.9	86.6	85.9	108.2	116.2	138.0	162.9
30°	51.3	66.2	89.9	106.4	136.6	160.4	172.4	207.2	253.9	298.5	359.3
27.5°	83.4	114.8	157.7	214.4	243.9	279.7	333.8	375.4	482.1	583.9	658.7
25°	143.4	209.4	290.4	374.0	426.3	473.3	572.3	644.9	796.1	909.6	1071.6
22.5°	274.3	415.2	517.7	579.8	692.1	839.0	910.4	1110.1	1334.3	1620.6	1857.1
20°	462.2	683.8	912.4	1051.9	1180.2	1504.6	1646.7	2020.8	2497.4	3036.0	3485.1
17.5°	904.4	1106.9	1572.1	2025.4	2366.4	2686.6	3585.4	4227.5	5473.6	6998.8	7702.2
15°	1622.8	2188.9	2731.7	3554.0	4424.1	5392.2	6802.6	9237.7	12296.2	15631.2	19238.5
12.5°	2630.8	3664.2	4635.2	5670.3	6916.0	9294.7	12510.5	16763.4	22258.9	28155.0	34962.9
10°	3763.3	5335.9	6754.3	8316.9	10528.8	14062.7	18829.2	25390.0	35176.5	45180.2	53857.4
7.5°	4777.4	6682.1	8606.0	10867.8	14373.8	19421.1	26278.6	36522.5	49302.7	61682.4	72238.0
5°	5749.3	7974.3	10167.2	12863.0	17281.7	23868.8	32743.7	46797.2	62953.7	76689.9	88258.3
2.5°	6506.5	8985.3	11494.9	14665.4	19706.7	27201.5	37281.6	54291.4	73791.6	89025.6	102253.5
0°	6940.3	9317.4	12041.5	15326.3	21127.3	29291.2	39629.1	57741.3	77161.5	94091.1	107018.2
-2.5°	6855.3	9346.3	12131.2	15454.2	20952.7	28790.7	38981.6	56259.3	75588.4	90850.2	103376.3
-5°	6422.5	8701.6	11156.8	14072.3	18924.0	26066.0	36072.1	52308.4	70246.9	85512.3	98243.2
-7.5°	5747.7	7763.0	9900.4	12438.0	16541.2	22755.7	31356.6	43998.6	59892.2	73717.9	83259.9
-10°	5011.1	6784.4	8713.3	11009.6	14245.9	19117.8	25634.6	34766.9	47765.8	59286.4	68137.4
-12.5°	4312.7	5924.9	7602.8	9520.3	11969.9	15807.1	20760.0	27578.0	35957.4	45427.5	54468.2
-15°	3643.0	5058.7	6522.9	8297.9	10428.1	13031.6	16361.2	20948.4	26453.6	32660.5	39356.2
-17.5°	3005.4	4248.5	5626.1	7175.9	8936.3	10925.3	13717.8	16863.4	20358.3	24402.5	28236.8
-20°	2357.8	3506.4	4756.4	6136.2	7715.6	9528.9	11515.9	13878.7	16407.2	19170.4	22038.7



REPORT NUMBER: P731416 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-4S-CV5

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	1799.5	2778.3	3872.0	5128.1	6611.0	8209.3	9750.6	11301.5	13172.1	14994.5	16824.7
-25°	1260.1	2036.2	3057.5	4258.3	5517.3	6853.2	7997.1	9090.3	10389.3	11557.7	12774.3
-27.5°	926.8	1460.0	2304.5	3369.6	4498.7	5415.0	6378.1	7274.7	8215.4	8956.9	9813.9
-30°	706.8	1013.8	1641.3	2472.0	3378.0	4176.4	4919.7	5731.7	6505.1	7148.8	7687.6
-32.5°	644.6	761.6	1079.2	1657.9	2312.8	3021.2	3664.3	4371.1	5019.9	5555.4	5984.2
-35°	605.7	669.2	761.9	1053.9	1437.9	1997.2	2533.9	3112.7	3650.5	4092.2	4447.3
-37.5°	572.7	628.3	682.9	737.9	949.4	1185.3	1572.6	1991.5	2354.8	2758.7	3074.0
-40°	531.6	594.0	638.2	683.3	734.1	793.1	997.5	1181.0	1386.4	1671.6	1907.7
-42.5°	486.4	539.2	594.2	638.3	677.5	719.2	765.5	811.4	905.9	1025.7	1123.3
-45°	456.9	491.6	531.5	581.7	627.4	662.1	696.5	729.9	761.4	789.8	813.6
-47.5°	424.9	454.4	486.8	521.3	555.2	593.7	629.9	660.2	684.1	707.0	727.4
-50°	396.5	418.3	445.7	472.5	499.1	526.5	553.6	576.9	600.0	620.8	641.2
-52.5°	373.6	391.9	409.9	427.8	449.5	470.7	490.6	508.6	525.0	539.2	554.2
-55°	334.9	358.0	381.0	397.0	410.7	423.9	437.1	451.9	464.9	476.1	486.7
-57.5°	282.3	310.4	336.0	354.7	372.4	389.1	400.7	409.2	417.5	425.3	432.5
-60°	226.6	247.6	272.1	296.2	318.3	338.4	351.4	362.4	371.7	379.5	386.5
-62.5°	175.1	193.1	213.1	232.5	250.4	268.1	285.3	300.3	313.1	324.0	332.9
-65°	127.6	143.3	160.3	176.7	192.5	208.0	222.3	235.3	247.0	257.5	267.2
-67.5°	90.8	102.4	114.7	125.8	138.4	152.0	165.4	177.5	188.1	196.6	202.9
-70°	66.8	73.3	81.4	91.0	101.4	111.2	120.8	130.1	139.0	146.6	153.4
-72.5°	47.4	54.2	60.7	66.7	73.2	79.6	86.1	93.0	100.0	105.8	110.9
-75°	26.0	29.4	34.8	40.2	45.3	50.3	54.6	58.5	61.8	64.5	66.9
-77.5°	18.4	20.7	23.0	25.2	27.3	29.9	32.6	35.4	38.1	40.2	42.2
-80°	14.3	15.5	16.9	18.3	19.7	21.5	23.4	25.2	27.1	28.4	29.6
-82.5°	10.5	11.4	12.3	13.2	14.0	15.2	16.3	17.4	18.5	19.2	20.0
-85°	7.4	8.0	8.7	9.3	10.0	11.0	12.0	13.0	14.0	14.7	15.3
-87.5°	5.7	6.1	6.4	6.8	7.1	8.0	8.9	9.8	10.7	11.0	11.3
-90°	3.6	3.6	3.6	3.6	3.6	3.3	3.0	2.7	2.4	2.1	1.8



REPORT NUMBER: P731416 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-4S-CV5

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	11.3	11.9	11.9	11.9	11.9	11.9	11.3	10.7	10.1	9.5	8.9
87.5°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.4	2.7
85°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.4	2.7
82.5°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.4	2.7
80°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.4	2.7
77.5°	2.4	2.4	1.8	1.2	1.8	2.4	2.4	2.4	2.4	2.4	2.7
75°	2.7	2.4	1.8	1.2	1.8	2.4	2.7	3.0	3.2	3.4	3.6
72.5°	3.9	3.6	3.6	3.6	3.6	3.6	3.9	4.1	4.4	4.6	5.0
70°	4.3	3.7	3.6	3.6	3.6	3.7	4.3	4.8	5.3	5.8	6.3
67.5°	5.8	5.8	5.9	5.9	5.9	5.8	5.8	5.8	5.8	6.2	6.8
65°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.3	6.9
62.5°	4.9	4.8	4.8	4.8	4.8	4.8	4.9	5.0	5.1	5.7	6.5
60°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.2	5.7
57.5°	3.7	3.7	3.6	3.6	3.6	3.7	3.7	3.9	4.0	4.5	5.0
55°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.0	4.3
52.5°	4.1	3.7	3.6	3.6	3.6	3.7	4.1	4.3	4.4	4.5	4.6
50°	5.1	4.9	4.8	4.8	4.8	4.9	5.1	5.4	5.5	5.7	5.8
47.5°	6.3	6.0	5.9	5.9	5.9	6.0	6.3	6.5	6.7	6.8	6.9
45°	8.1	7.5	7.1	7.1	7.1	7.5	8.1	8.5	8.6	8.5	8.1
42.5°	12.3	12.0	11.8	11.9	11.8	12.0	12.3	12.4	12.4	12.0	11.4
40°	22.6	23.2	23.5	23.8	23.5	23.2	22.6	21.5	21.0	18.5	17.6
37.5°	46.3	45.5	43.4	44.0	43.4	45.5	46.3	44.2	40.5	35.8	34.1
35°	85.9	91.1	94.7	97.4	94.7	91.1	85.9	81.1	73.7	63.1	60.3
32.5°	172.2	179.3	177.2	173.4	177.2	179.3	172.2	162.9	138.0	116.2	108.2
30°	395.2	415.9	410.3	386.1	410.3	415.9	395.2	359.3	298.5	253.9	207.2
27.5°	712.5	762.3	794.8	778.1	794.8	762.3	712.5	658.7	583.9	482.1	375.4
25°	1211.3	1308.1	1377.4	1348.4	1377.4	1308.1	1211.3	1071.6	909.6	796.1	644.9
22.5°	2153.8	2312.7	2407.1	2431.8	2407.1	2312.7	2153.8	1857.1	1620.6	1334.3	1110.1
20°	4049.9	4176.6	4201.7	4139.0	4201.7	4176.6	4049.9	3485.1	3036.0	2497.4	2020.8
17.5°	9744.5	10329.7	9900.7	9450.5	9900.7	10329.7	9744.5	7702.2	6998.8	5473.6	4227.5
15°	22291.0	24762.6	26170.6	26457.8	26170.6	24762.6	22291.0	19238.5	15631.2	12296.2	9237.7
12.5°	39278.0	43261.0	44904.8	44751.2	44904.8	43261.0	39278.0	34962.9	28155.0	22258.9	16763.4
10°	59423.5	63682.0	67346.0	67383.1	67346.0	63682.0	59423.5	53857.4	45180.2	35176.5	25390.0
7.5°	79564.6	84475.7	87922.7	88906.0	87922.7	84475.7	79564.6	72238.0	61682.4	49302.7	36522.5
5°	97196.7	103276.9	106699.1	107744.1	106699.1	103276.9	97196.7	88258.3	76689.9	62953.7	46797.2
2.5°	112699.0	120147.4	123900.6	124484.1	123900.6	120147.4	112699.0	102253.5	89025.6	73791.6	54291.4
0°	116964.1	123603.8	128464.5	130194.8	128464.5	123603.8	116964.1	107018.2	94091.1	77161.5	57741.3
-2.5°	112759.2	118568.2	121465.2	122673.6	121465.2	118568.2	112759.2	103376.3	90850.2	75588.4	56259.3
-5°	106112.7	111533.9	115223.4	116077.8	115223.4	111533.9	106112.7	98243.2	85512.3	70246.9	52308.4
-7.5°	89553.4	94889.4	96547.1	98426.6	96547.1	94889.4	89553.4	83259.9	73717.9	59892.2	43998.6
-10°	74823.6	78974.6	80116.3	81447.8	80116.3	78974.6	74823.6	68137.4	59286.4	47765.8	34766.9
-12.5°	61910.1	66021.8	67883.2	69476.3	67883.2	66021.8	61910.1	54468.2	45427.5	35957.4	27578.0
-15°	45357.6	49222.1	50557.0	51418.8	50557.0	49222.1	45357.6	39356.2	32660.5	26453.6	20948.4
-17.5°	32856.2	35799.4	37548.3	38562.3	37548.3	35799.4	32856.2	28236.8	24402.5	20358.3	16863.4
-20°	24559.9	26246.6	27601.4	27750.4	27601.4	26246.6	24559.9	22038.7	19170.4	16407.2	13878.7



REPORT NUMBER: P731416 (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°	18358.1	19362.8	19986.5	19948.8	19986.5	19362.8	18358.1	16824.7	14994.5	13172.1	11301.5
-25°	13702.2	14377.6	14807.2	14884.4	14807.2	14377.6	13702.2	12774.3	11557.7	10389.3	9090.3
-27.5°	10427.3	10902.9	11149.3	11162.4	11149.3	10902.9	10427.3	9813.9	8956.9	8215.4	7274.7
-30°	8078.6	8474.7	8737.4	8938.5	8737.4	8474.7	8078.6	7687.6	7148.8	6505.1	5731.7
-32.5°	6344.7	6682.7	6911.9	7048.4	6911.9	6682.7	6344.7	5984.2	5555.4	5019.9	4371.1
-35°	4756.6	5027.3	5189.4	5148.8	5189.4	5027.3	4756.6	4447.3	4092.2	3650.5	3112.7
-37.5°	3351.7	3581.3	3744.6	3847.9	3744.6	3581.3	3351.7	3074.0	2758.7	2354.8	1991.5
-40°	2112.0	2270.7	2383.7	2455.6	2383.7	2270.7	2112.0	1907.7	1671.6	1386.4	1181.0
-42.5°	1202.8	1262.2	1302.1	1323.4	1302.1	1262.2	1202.8	1123.3	1025.7	905.9	811.4
-45°	831.9	846.7	857.4	863.7	857.4	846.7	831.9	813.6	789.8	761.4	729.9
-47.5°	743.4	755.5	763.4	767.4	763.4	755.5	743.4	727.4	707.0	684.1	660.2
-50°	659.5	674.4	683.4	686.7	683.4	674.4	659.5	641.2	620.8	600.0	576.9
-52.5°	568.3	580.4	588.5	592.8	588.5	580.4	568.3	554.2	539.2	525.0	508.6
-55°	495.9	503.6	507.6	508.5	507.6	503.6	495.9	486.7	476.1	464.9	451.9
-57.5°	438.6	443.5	447.5	450.3	447.5	443.5	438.6	432.5	425.3	417.5	409.2
-60°	392.1	396.3	398.6	399.2	398.6	396.3	392.1	386.5	379.5	371.7	362.4
-62.5°	339.9	345.0	348.9	351.6	348.9	345.0	339.9	332.9	324.0	313.1	300.3
-65°	276.0	283.7	287.8	289.9	287.8	283.7	276.0	267.2	257.5	247.0	235.3
-67.5°	208.0	211.9	212.9	212.7	212.9	211.9	208.0	202.9	196.6	188.1	177.5
-70°	159.7	165.5	167.7	168.7	167.7	165.5	159.7	153.4	146.6	139.0	130.1
-72.5°	115.5	119.6	122.0	123.6	122.0	119.6	115.5	110.9	105.8	100.0	93.0
-75°	69.0	70.7	71.7	72.5	71.7	70.7	69.0	66.9	64.5	61.8	58.5
-77.5°	44.1	46.0	46.8	47.5	46.8	46.0	44.1	42.2	40.2	38.1	35.4
-80°	30.8	31.9	32.1	32.1	32.1	31.9	30.8	29.6	28.4	27.1	25.2
-82.5°	20.7	21.3	21.4	21.4	21.4	21.3	20.7	20.0	19.2	18.5	17.4
-85°	15.9	16.6	16.6	16.6	16.6	16.6	15.9	15.3	14.7	14.0	13.0
-87.5°	11.6	11.9	12.5	13.1	12.5	11.9	11.6	11.3	11.0	10.7	9.8
-90°	1.5	1.2	0.6	0.0	0.6	1.2	1.5	1.8	2.1	2.4	2.7



REPORT NUMBER: P731416 (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°
90°	8.3	7.7	7.1	6.5	5.9	5.4	4.8	4.8	4.8	4.8	4.8
87.5°	3.0	3.3	3.6	3.6	3.6	3.6	3.6	3.9	4.2	4.5	4.8
85°	3.0	3.3	3.6	3.8	4.0	4.2	4.4	4.4	4.5	4.6	4.8
82.5°	3.0	3.3	3.6	3.9	4.2	4.5	4.8	4.8	4.8	4.8	4.8
80°	3.0	3.3	3.6	3.9	4.2	4.5	4.8	4.8	4.8	4.8	4.8
77.5°	3.1	3.4	3.7	4.0	4.3	4.6	4.8	4.8	4.8	4.8	4.8
75°	3.8	4.0	4.2	4.5	4.6	4.7	4.9	5.1	5.2	5.2	5.0
72.5°	5.4	5.6	5.9	6.2	6.4	6.5	6.6	6.4	6.3	6.1	5.8
70°	6.8	7.3	8.1	9.1	9.8	10.1	9.7	9.0	8.3	7.8	7.2
67.5°	7.5	8.1	9.6	11.3	12.5	13.5	13.6	12.9	11.9	10.9	9.3
65°	7.6	8.2	10.4	12.7	14.7	16.3	17.5	17.6	16.9	15.2	12.2
62.5°	7.3	8.2	10.0	12.2	14.7	18.3	21.9	23.2	23.1	20.4	16.4
60°	6.4	7.3	8.7	10.5	12.6	17.5	23.6	28.1	30.8	26.5	20.7
57.5°	5.6	6.2	7.1	8.4	10.2	15.6	22.9	30.9	36.1	30.2	24.7
55°	4.7	5.2	5.9	6.5	7.6	12.7	19.5	27.4	33.2	31.5	25.4
52.5°	4.8	5.1	5.4	5.7	6.8	9.7	14.3	21.8	26.1	25.8	23.8
50°	5.8	5.6	5.6	5.8	6.5	7.5	10.5	15.6	18.0	19.8	19.6
47.5°	6.9	6.7	6.1	6.0	6.6	7.4	8.5	9.9	12.7	13.8	15.0
45°	8.3	8.3	8.0	7.6	7.2	7.6	8.2	9.4	10.1	11.3	10.9
42.5°	11.5	10.7	10.1	10.5	9.9	9.2	9.1	10.2	10.4	10.7	11.5
40°	17.8	15.8	15.1	14.9	14.3	12.5	12.8	12.4	12.3	11.6	13.5
37.5°	30.9	27.0	24.9	21.7	20.6	19.4	18.4	17.4	15.7	16.1	17.1
35°	53.6	48.1	42.0	35.5	29.2	28.5	25.9	23.6	22.4	22.4	22.2
32.5°	85.9	86.6	71.9	59.6	49.2	42.0	36.7	31.4	32.8	31.6	29.0
30°	172.4	160.4	136.6	106.4	89.9	66.2	51.3	47.8	45.6	43.2	37.3
27.5°	333.8	279.7	243.9	214.4	157.7	114.8	83.4	68.3	61.2	56.4	51.4
25°	572.3	473.3	426.3	374.0	290.4	209.4	143.4	101.4	82.2	74.0	85.0
22.5°	910.4	839.0	692.1	579.8	517.7	415.2	274.3	141.1	115.4	123.4	124.7
20°	1646.7	1504.6	1180.2	1051.9	912.4	683.8	462.2	290.9	215.4	186.7	170.2
17.5°	3585.4	2686.6	2366.4	2025.4	1572.1	1106.9	904.4	601.6	345.6	260.1	221.0
15°	6802.6	5392.2	4424.1	3554.0	2731.7	2188.9	1622.8	994.9	542.2	363.1	294.0
12.5°	12510.5	9294.7	6916.0	5670.3	4635.2	3664.2	2630.8	1620.3	872.6	520.5	404.3
10°	18829.2	14062.7	10528.8	8316.9	6754.3	5335.9	3763.3	2302.8	1246.7	698.7	517.1
7.5°	26278.6	19421.1	14373.8	10867.8	8606.0	6682.1	4777.4	2989.6	1624.8	880.5	630.7
5°	32743.7	23868.8	17281.7	12863.0	10167.2	7974.3	5749.3	3657.0	1991.2	1060.4	743.0
2.5°	37281.6	27201.5	19706.7	14665.4	11494.9	8985.3	6506.5	4148.3	2231.9	1184.9	810.3
0°	39629.1	29291.2	21127.3	15326.3	12041.5	9317.4	6940.3	4441.9	2377.2	1285.4	872.0
-2.5°	38981.6	28790.7	20952.7	15454.2	12131.2	9346.3	6855.3	4485.1	2436.1	1316.2	877.4
-5°	36072.1	26066.0	18924.0	14072.3	11156.8	8701.6	6422.5	4274.3	2385.1	1308.5	877.3
-7.5°	31356.6	22755.7	16541.2	12438.0	9900.4	7763.0	5747.7	3819.8	2174.2	1205.4	831.2
-10°	25634.6	19117.8	14245.9	11009.6	8713.3	6784.4	5011.1	3314.3	1909.7	1086.5	780.9
-12.5°	20760.0	15807.1	11969.9	9520.3	7602.8	5924.9	4312.7	2793.7	1594.9	954.5	727.3
-15°	16361.2	13031.6	10428.1	8297.9	6522.9	5058.7	3643.0	2277.0	1258.9	817.0	671.1
-17.5°	13717.8	10925.3	8936.3	7175.9	5626.1	4248.5	3005.4	1861.1	1044.8	715.7	624.1
-20°	11515.9	9528.9	7715.6	6136.2	4756.4	3506.4	2357.8	1415.2	875.9	662.7	585.2



REPORT NUMBER: P731416 (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°	9750.6	8209.3	6611.0	5128.1	3872.0	2778.3	1799.5	1036.7	689.6	608.8	544.0
-25°	7997.1	6853.2	5517.3	4258.3	3057.5	2036.2	1260.1	836.6	636.3	558.7	500.8
-27.5°	6378.1	5415.0	4498.7	3369.6	2304.5	1460.0	926.8	665.8	593.1	524.5	458.3
-30°	4919.7	4176.4	3378.0	2472.0	1641.3	1013.8	706.8	619.1	555.0	491.6	428.4
-32.5°	3664.3	3021.2	2312.8	1657.9	1079.2	761.6	644.6	575.4	517.8	459.6	408.8
-35°	2533.9	1997.2	1437.9	1053.9	761.9	669.2	605.7	543.7	482.1	430.0	390.3
-37.5°	1572.6	1185.3	949.4	737.9	682.9	628.3	572.7	509.8	449.2	407.8	373.3
-40°	997.5	793.1	734.1	683.3	638.2	594.0	531.6	470.5	427.1	386.5	356.7
-42.5°	765.5	719.2	677.5	638.3	594.2	539.2	486.4	445.0	405.5	370.3	345.0
-45°	696.5	662.1	627.4	581.7	531.5	491.6	456.9	419.8	384.6	357.9	334.7
-47.5°	629.9	593.7	555.2	521.3	486.8	454.4	424.9	394.4	369.5	345.1	312.5
-50°	553.6	526.5	499.1	472.5	445.7	418.3	396.5	377.5	350.3	318.8	284.6
-52.5°	490.6	470.7	449.5	427.8	409.9	391.9	373.6	348.0	319.8	283.9	246.3
-55°	437.1	423.9	410.7	397.0	381.0	358.0	334.9	308.0	275.8	240.7	207.5
-57.5°	400.7	389.1	372.4	354.7	336.0	310.4	282.3	254.6	229.0	199.0	168.6
-60°	351.4	338.4	318.3	296.2	272.1	247.6	226.6	204.8	182.4	157.4	131.6
-62.5°	285.3	268.1	250.4	232.5	213.1	193.1	175.1	156.9	137.2	116.1	98.5
-65°	222.3	208.0	192.5	176.7	160.3	143.3	127.6	113.1	99.3	84.4	69.8
-67.5°	165.4	152.0	138.4	125.8	114.7	102.4	90.8	78.8	70.1	62.6	54.9
-70°	120.8	111.2	101.4	91.0	81.4	73.3	66.8	60.5	53.9	46.3	38.6
-72.5°	86.1	79.6	73.2	66.7	60.7	54.2	47.4	40.7	34.1	27.5	22.7
-75°	54.6	50.3	45.3	40.2	34.8	29.4	26.0	23.7	21.4	19.2	17.0
-77.5°	32.6	29.9	27.3	25.2	23.0	20.7	18.4	16.8	15.7	14.6	13.6
-80°	23.4	21.5	19.7	18.3	16.9	15.5	14.3	13.5	12.7	11.9	11.2
-82.5°	16.3	15.2	14.0	13.2	12.3	11.4	10.5	10.0	9.5	9.1	8.7
-85°	12.0	11.0	10.0	9.3	8.7	8.0	7.4	7.3	7.2	7.0	6.9
-87.5°	8.9	8.0	7.1	6.8	6.4	6.1	5.7	5.7	5.6	5.6	5.6
-90°	3.0	3.3	3.6	3.6	3.6	3.6	3.6	3.9	4.2	4.5	4.8



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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°	4.8	4.8	4.8	4.8	5.1	5.4	5.6	5.9	5.6	5.4	5.1
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.9	5.0	5.0
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.0	5.2	5.3
82.5°	4.8	4.8	4.8	4.8	5.0	5.1	5.1	5.1	5.2	5.4	5.6
80°	4.8	4.8	4.8	4.8	5.1	5.4	5.5	5.6	5.5	5.6	5.7
77.5°	4.8	4.8	4.8	4.9	5.1	5.4	5.7	5.9	5.8	5.7	5.8
75°	4.8	4.8	4.8	4.9	5.2	5.4	5.7	5.9	5.9	5.9	5.9
72.5°	5.6	5.3	5.0	4.9	5.2	5.5	5.7	5.9	5.9	5.9	5.9
70°	6.5	6.0	5.7	5.5	5.4	5.5	5.8	5.9	5.9	5.9	5.9
67.5°	7.7	7.0	6.4	6.0	5.7	5.7	5.8	5.9	5.9	5.9	5.9
65°	10.3	8.6	7.0	6.4	6.0	5.9	5.9	5.9	5.9	5.9	5.9
62.5°	13.2	10.7	8.9	7.2	6.3	6.0	5.9	5.9	5.9	5.9	5.9
60°	16.2	13.0	10.7	8.7	7.0	6.0	5.9	5.9	5.9	5.9	5.9
57.5°	19.0	14.8	12.2	10.1	8.3	6.6	5.9	5.9	5.9	5.9	5.9
55°	20.6	16.3	13.4	11.1	9.2	7.6	6.2	5.9	5.9	5.9	5.9
52.5°	19.7	16.9	14.4	11.8	9.8	8.4	7.0	5.9	5.9	5.9	5.9
50°	17.2	16.6	14.8	12.3	10.1	8.8	7.7	6.4	5.9	5.9	6.0
47.5°	15.6	15.9	14.8	12.6	10.2	9.1	8.1	7.0	5.9	5.9	6.1
45°	13.7	15.1	14.7	12.8	10.5	9.5	8.5	7.4	6.3	6.0	6.2
42.5°	12.4	14.3	14.5	13.3	11.4	9.8	8.8	7.7	6.6	6.0	6.3
40°	14.1	14.0	14.5	14.2	12.6	10.2	9.1	8.0	6.9	6.2	6.3
37.5°	16.8	15.7	14.9	16.6	14.2	11.3	9.3	8.2	7.3	6.6	6.4
35°	21.3	19.0	18.4	20.0	17.3	12.6	9.6	8.4	7.8	6.9	6.5
32.5°	26.8	25.2	24.8	24.1	21.5	13.9	10.4	9.3	8.5	7.2	6.5
30°	35.6	36.6	32.2	29.1	26.3	17.8	12.0	10.3	9.3	7.5	6.7
27.5°	55.1	51.5	41.4	35.9	31.2	22.9	14.8	11.4	10.1	8.0	6.9
25°	80.9	71.2	55.9	43.6	36.6	35.7	17.9	12.8	11.1	8.6	7.2
22.5°	114.4	95.3	72.8	51.8	55.8	52.4	24.8	15.3	12.1	9.3	7.4
20°	152.8	122.9	96.1	80.0	78.4	69.4	37.0	17.9	13.2	10.1	7.6
17.5°	195.2	169.6	145.8	116.7	102.3	88.2	51.3	20.7	14.3	10.8	7.8
15°	270.8	239.7	199.8	156.5	127.4	108.4	67.3	23.6	15.5	11.6	8.2
12.5°	357.5	313.4	256.8	198.6	153.2	129.8	84.2	26.5	16.7	12.7	8.8
10°	446.7	389.5	315.6	242.2	179.5	151.7	101.6	30.2	19.1	14.0	9.4
7.5°	537.0	466.5	375.2	286.2	206.3	175.2	121.0	35.9	21.8	15.4	10.1
5°	621.3	534.2	425.3	324.3	234.9	199.7	139.8	41.6	24.5	16.7	10.7
2.5°	678.8	585.6	467.3	359.0	262.8	223.5	157.1	47.1	27.2	17.9	11.3
0°	733.0	633.2	506.1	390.9	289.9	245.9	172.3	52.3	29.7	19.0	11.9
-2.5°	742.9	641.3	511.5	399.0	301.0	254.6	178.1	61.7	36.0	22.4	13.6
-5°	748.8	644.4	513.4	404.2	310.7	261.2	181.4	70.5	41.9	25.6	15.1
-7.5°	719.5	623.7	503.7	404.9	319.0	265.7	182.4	78.5	47.4	28.5	16.6
-10°	680.3	587.3	478.5	390.0	316.5	265.0	181.4	85.5	52.2	31.1	17.9
-12.5°	639.1	548.3	452.5	374.2	311.8	260.2	178.0	91.8	56.3	33.2	19.0
-15°	596.6	507.3	426.2	358.1	306.8	254.4	173.6	96.9	60.3	35.3	19.9
-17.5°	555.0	464.9	400.6	342.4	301.9	248.1	168.3	100.8	63.3	37.2	20.9
-20°	515.0	432.6	376.7	327.4	297.2	241.3	162.4	103.2	65.3	38.4	21.8



REPORT NUMBER: P731416 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-4S-CV5

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	474.8	410.4	360.9	319.1	290.4	234.4	156.3	104.0	66.2	38.8	22.4
-25°	435.9	388.9	346.3	313.4	280.3	224.3	153.3	103.3	65.8	38.4	22.7
-27.5°	408.2	369.3	331.9	307.0	268.4	214.8	151.8	102.7	64.7	37.1	22.7
-30°	385.8	353.2	322.9	298.2	256.1	200.7	148.3	100.5	63.2	36.3	22.3
-32.5°	369.8	338.1	314.5	284.0	240.4	185.7	139.5	96.6	60.4	35.8	21.7
-35°	356.7	327.9	305.0	269.9	222.5	172.6	128.3	90.9	56.4	34.7	20.8
-37.5°	342.8	319.8	289.7	252.9	203.9	158.1	117.0	81.9	51.0	33.1	19.6
-40°	333.6	308.1	275.0	231.9	185.9	142.1	104.5	72.9	47.6	31.0	17.9
-42.5°	323.2	290.8	252.9	210.0	167.0	126.8	91.0	63.2	43.7	28.6	15.8
-45°	303.1	268.7	226.9	186.5	146.9	110.1	79.6	53.7	39.1	25.8	14.0
-47.5°	279.0	238.7	199.5	161.6	126.8	93.4	67.5	48.0	34.1	22.3	12.8
-50°	244.8	207.3	170.8	137.3	105.0	79.4	56.3	41.8	29.2	18.0	11.4
-52.5°	209.8	174.7	143.0	112.9	87.4	64.7	48.6	35.1	23.9	15.2	9.8
-55°	174.0	143.8	115.9	91.6	70.1	54.0	40.3	28.8	18.3	12.9	8.2
-57.5°	140.7	114.0	92.1	71.7	56.6	44.1	32.4	22.1	15.1	10.7	8.3
-60°	108.0	88.6	69.6	57.1	45.8	34.6	24.5	16.5	12.6	8.9	8.3
-62.5°	80.9	65.4	55.5	45.4	35.3	25.6	17.2	13.8	10.1	8.7	8.3
-65°	61.1	52.2	43.1	33.9	24.9	17.9	14.3	11.0	9.3	8.6	8.2
-67.5°	46.9	38.5	30.3	22.2	17.8	14.5	11.4	9.7	8.8	8.3	7.9
-70°	31.2	24.1	20.0	17.0	14.0	11.4	10.1	9.0	8.3	7.9	7.5
-72.5°	20.3	17.8	15.2	12.7	11.5	10.3	9.1	8.2	7.9	7.5	7.2
-75°	14.8	13.5	12.5	11.5	10.4	9.2	8.3	7.7	7.4	7.1	6.8
-77.5°	12.7	11.8	11.0	10.0	9.0	8.2	7.6	7.2	7.0	6.7	6.5
-80°	10.4	9.7	8.9	8.1	7.5	7.1	6.9	6.7	6.5	6.3	6.1
-82.5°	8.1	7.5	7.1	6.8	6.6	6.5	6.4	6.2	6.1	5.9	5.8
-85°	6.6	6.4	6.2	6.1	6.0	5.9	5.9	5.9	5.8	5.7	5.6
-87.5°	5.5	5.5	5.5	5.4	5.5	5.6	5.8	5.9	5.7	5.5	5.3
-90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8



REPORT NUMBER: P731416 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-4S-CV5

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	4.8	5.1	5.4	5.6	5.9	5.3	4.8
87.5°	5.1	5.0	5.0	4.9	4.9	4.8	4.8
85°	5.4	5.3	5.2	5.1	5.0	4.9	4.8
82.5°	5.7	5.5	5.4	5.2	5.1	4.9	4.8
80°	5.9	5.7	5.6	5.4	5.2	5.0	4.8
77.5°	5.9	5.9	5.7	5.5	5.3	5.0	4.8
75°	5.9	5.9	5.9	5.7	5.4	5.1	4.8
72.5°	5.9	5.9	5.9	5.8	5.5	5.1	4.8
70°	5.9	5.9	5.9	5.9	5.6	5.2	4.8
67.5°	5.9	5.9	5.9	5.9	5.6	5.2	4.8
65°	5.9	5.9	5.9	5.9	5.7	5.3	4.8
62.5°	5.9	5.9	5.9	5.9	5.8	5.3	4.8
60°	5.9	5.9	5.9	5.9	5.9	5.3	4.8
57.5°	5.9	5.9	5.9	5.9	5.9	5.4	4.8
55°	5.9	5.9	5.9	5.9	5.9	5.4	4.8
52.5°	5.9	5.9	5.9	5.9	5.9	5.5	4.8
50°	5.9	5.9	5.9	5.9	5.9	5.5	4.8
47.5°	5.9	5.9	5.9	5.9	5.9	5.5	4.8
45°	6.0	5.9	5.9	5.9	5.9	5.6	4.8
42.5°	6.1	5.9	5.9	5.9	5.9	5.6	4.8
40°	6.3	5.9	5.9	5.9	5.9	5.6	4.8
37.5°	6.4	5.9	5.9	5.9	5.9	5.7	4.8
35°	6.6	6.0	5.9	5.9	5.9	5.7	4.8
32.5°	6.7	6.1	5.9	5.9	5.9	5.7	4.8
30°	6.8	6.2	5.9	5.9	5.9	5.8	4.8
27.5°	6.9	6.4	5.9	5.9	5.9	5.8	4.8
25°	6.9	6.5	5.9	5.9	5.9	5.8	4.8
22.5°	7.0	6.6	5.9	5.9	5.9	5.8	4.8
20°	7.1	6.7	5.9	5.9	5.9	5.8	4.8
17.5°	7.2	6.8	5.9	5.9	5.9	5.8	4.8
15°	7.3	6.9	5.9	5.9	5.9	5.9	4.8
12.5°	7.4	7.0	5.9	5.9	5.9	5.9	4.8
10°	7.6	7.0	5.9	5.9	5.9	5.9	4.8
7.5°	7.8	7.0	5.9	5.9	5.9	5.9	4.8
5°	8.0	7.1	5.9	5.9	5.9	5.9	4.8
2.5°	8.1	7.1	5.9	5.9	5.9	5.9	4.8
0°	8.3	7.1	5.9	5.9	5.9	5.9	4.8
-2.5°	9.1	7.2	5.9	5.9	5.9	5.9	4.8
-5°	9.8	7.3	5.9	5.9	5.9	5.9	4.8
-7.5°	10.5	7.4	5.9	5.9	5.9	5.9	4.8
-10°	11.1	7.5	5.9	5.9	5.9	5.9	4.8
-12.5°	11.6	7.5	5.9	5.9	5.9	5.9	4.8
-15°	12.0	7.5	5.9	5.9	5.9	5.9	4.8
-17.5°	12.2	7.5	5.9	5.9	5.9	5.9	4.8
-20°	12.4	7.5	5.9	5.9	5.9	5.8	4.8



REPORT NUMBER: P731416 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-4S-CV5

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	12.7	7.4	5.9	5.9	5.9	5.8	4.8
-25°	12.7	7.4	5.9	5.9	5.9	5.8	4.8
-27.5°	12.5	7.3	5.9	5.9	5.9	5.8	4.8
-30°	12.1	7.2	5.9	5.9	5.9	5.8	4.8
-32.5°	11.4	7.0	6.0	5.9	5.9	5.8	4.8
-35°	10.9	6.8	6.1	5.9	5.9	5.8	4.8
-37.5°	10.6	6.5	6.2	5.9	5.9	5.7	4.8
-40°	10.0	6.6	6.3	5.9	5.9	5.7	4.8
-42.5°	9.4	6.7	6.3	5.9	5.9	5.7	4.8
-45°	8.5	6.8	6.4	5.9	5.9	5.7	4.8
-47.5°	7.6	6.9	6.4	6.0	5.9	5.7	4.8
-50°	7.5	7.0	6.4	6.0	5.9	5.7	4.8
-52.5°	7.6	7.1	6.4	6.0	5.9	5.6	4.8
-55°	7.7	7.1	6.4	6.0	5.9	5.6	4.8
-57.5°	7.8	7.0	6.4	6.0	5.9	5.6	4.8
-60°	7.8	6.9	6.3	6.0	5.9	5.6	4.8
-62.5°	7.7	6.9	6.3	6.0	5.9	5.6	4.8
-65°	7.5	6.7	6.2	6.0	5.9	5.6	4.8
-67.5°	7.3	6.6	6.2	5.9	5.9	5.5	4.8
-70°	7.0	6.5	6.1	5.9	5.9	5.5	4.8
-72.5°	6.8	6.3	6.0	5.9	5.9	5.5	4.8
-75°	6.5	6.1	5.9	5.8	5.9	5.5	4.8
-77.5°	6.2	6.0	5.8	5.8	5.9	5.5	4.8
-80°	5.9	5.8	5.7	5.8	5.9	5.4	4.8
-82.5°	5.7	5.6	5.6	5.7	5.9	5.4	4.8
-85°	5.4	5.4	5.5	5.7	5.9	5.4	4.8
-87.5°	5.1	5.3	5.4	5.7	5.9	5.4	4.8
-90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8

(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

