

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: P731608 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-70-4S-CV5**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731608 (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-08-0680N-40-70-4S-CV5  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 4S BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

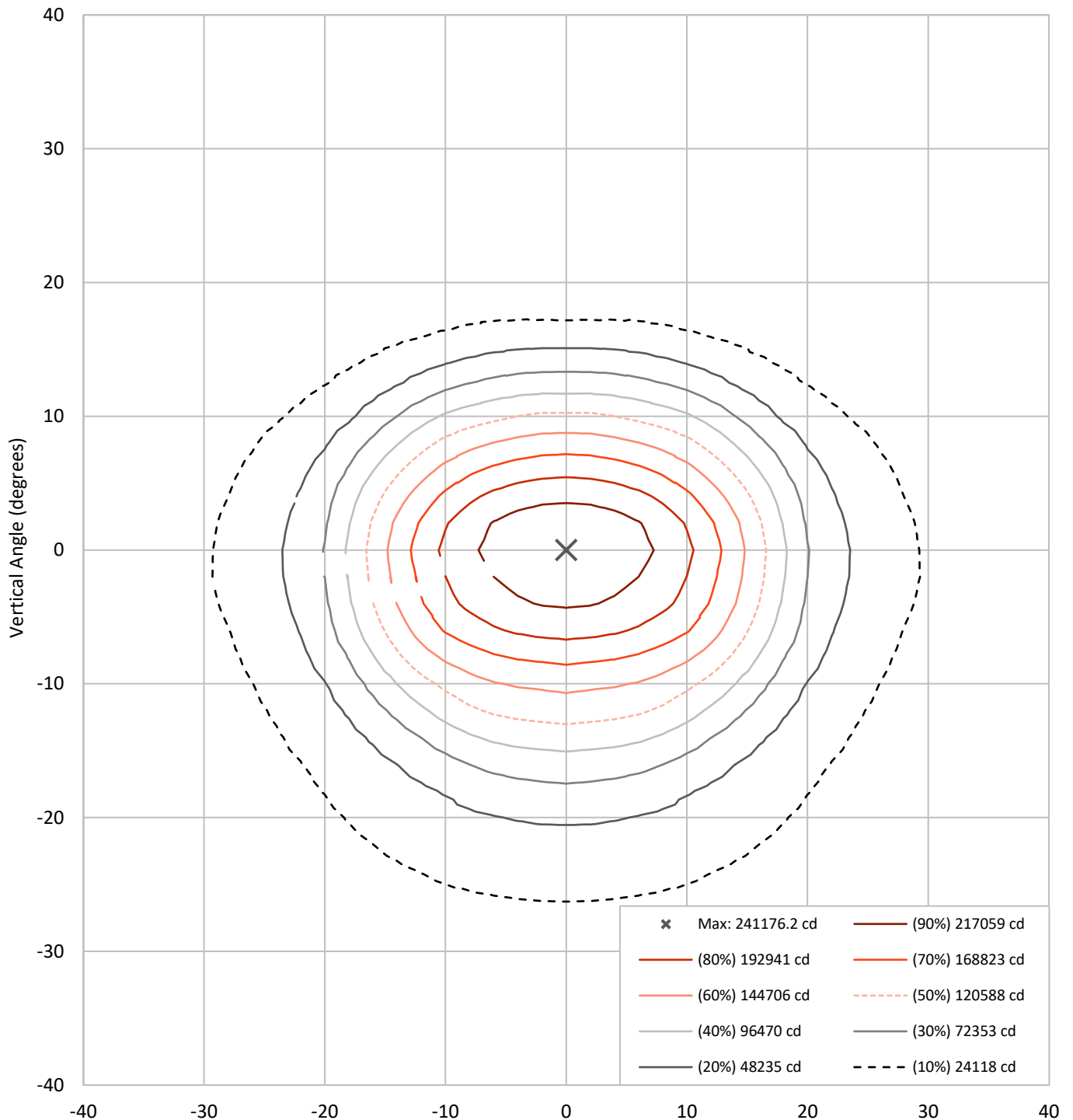
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 3V
Luminaire Lumens:	63666.3 lumens	Max Intensity:	241176.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	91.3 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:	32213.1 lumens	Field Lumens:	54906.6 lumens
Beam Efficiency:	50.6%	Field Efficiency:	86.2%

Input Watts (W): 697.2  
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





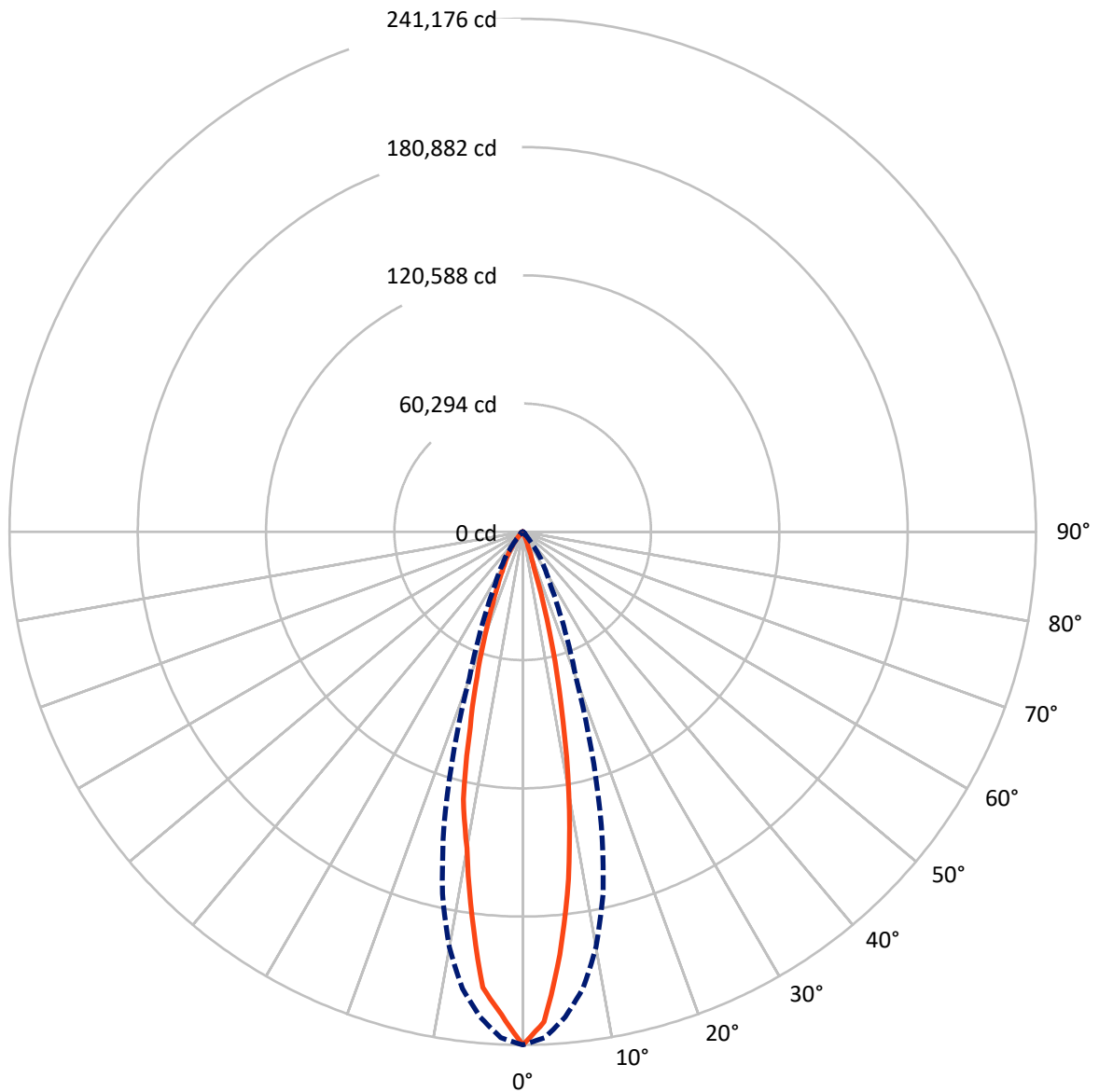
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### Lumen Table

90	0.2		0.6		0.9		0.8		0.6		0.8		0.9		0.6		0.2	
80	0.2		0.6		0.9		0.8		0.6		0.8		0.9		0.6		0.2	
70	0.2	0.1	0.2	0.5	0.8	0.5	0.3	0.3	0.3	0.3	0.5	0.8	0.5	0.2	0.1	0.2	0.2	0.2
60		0.2	0.4	0.9	0.9	0.3	0.3	0.2	0.2	0.3	0.3	0.9	0.9	0.4	0.2			
50	0.2	0.2	0.4	0.5	0.4	0.5	0.5	0.6	0.6	0.5	0.5	0.4	0.5	0.4	0.2	0.2	0.2	0.2
40		0.2	0.6	0.9	1.4	2.7	4.9	7.3	7.3	4.9	2.7	1.4	0.9	0.6	0.2			
30	0.3	0.4	1.7	3.6	9.6	26.6	55.0	91.4	91.4	55.0	26.6	9.6	3.6	1.7	0.4	0.3	0.3	0.3
20		1.1	5.5	14.4	85.9	268.5	817.9	1528.9	1528.9	817.9	268.5	85.9	14.4	5.5	1.1			
10	0.4	2.0	11.0	36.3	266.7	939.6	3252.8	5535.5	5535.5	3252.8	939.6	266.7	36.3	11.0	2.0	0.4	0.4	0.4
0		2.8	13.6	43.5	297.2	1036.7	3582.9	5881.6	5881.6	3582.9	1036.7	297.2	43.5	13.6	2.8			
-10	0.6	3.0	12.1	30.5	176.1	571.4	1585.6	2786.6	2786.6	1585.6	571.4	176.1	30.5	12.1	3.0	0.6	0.6	0.6
-20		2.8	10.2	20.4	73.6	285.6	588.6	857.2	857.2	588.6	285.6	73.6	20.4	10.2	2.8			
-30	0.5	2.3	8.5	15.9	29.8	88.9	201.9	286.5	286.5	201.9	88.9	29.8	15.9	8.5	2.3	0.5	0.5	0.5
-40		1.5	6.1	13.1	21.3	31.8	46.0	60.3	60.3	46.0	31.8	21.3	13.1	6.1	1.5			
-50	0.3	0.8	3.2	8.4	15.0	20.9	25.7	28.8	28.8	25.7	20.9	15.0	8.4	3.2	0.8	0.3	0.3	0.3
-60		0.3	1.2	3.1	6.3	10.1	13.6	15.6	15.6	13.6	10.1	6.3	3.1	1.2	0.3			
-70	0.2	0.9	3.0	7.8	11.2	7.8	3.0	0.9	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
-80		0.2	0.9	3.0	7.8	11.2	7.8	3.0	0.9									
-90	0.2		0.9		3.0		7.8		11.2		7.8		3.0		0.9		0.2	

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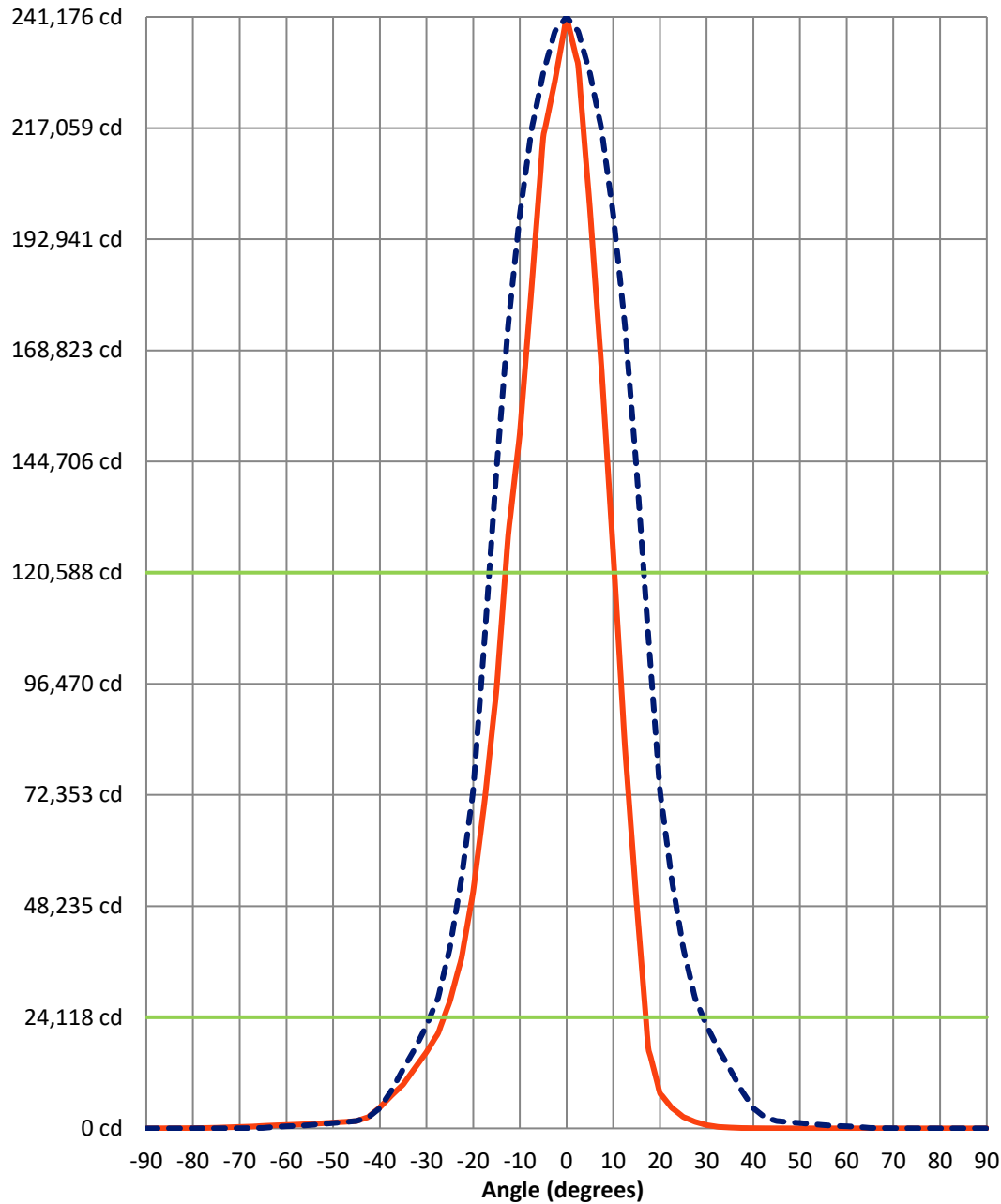
### Luminous Intensity Polar Plot



— 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: 32213.1  
 Efficiency: 50.6%

**Field:**  
 H Angle: 58.5°  
 V Angle: 43.2°  
 Lumens: 54906.6  
 Efficiency: 86.2%

**Spill:**  
 Lumens: 8759.7  
 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°	8.8	9.9	11.0	10.5	9.9	9.4	8.8	9.4	9.9	10.4	11.0
87.5°	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.3	9.2	9.0	8.8
85°	8.8	9.0	9.2	9.4	9.6	9.8	9.9	9.8	9.6	9.2	8.8
82.5°	8.8	9.1	9.4	9.7	9.9	10.2	10.5	10.3	10.0	9.6	9.4
80°	8.8	9.2	9.6	9.9	10.3	10.7	11.0	10.6	10.3	10.2	10.3
77.5°	8.8	9.3	9.8	10.2	10.7	11.0	11.0	10.8	10.7	10.8	11.0
75°	8.8	9.4	9.9	10.5	11.0	11.0	11.0	10.9	11.0	11.0	11.0
72.5°	8.8	9.5	10.1	10.8	11.0	11.0	11.0	11.0	11.0	11.0	11.0
70°	8.8	9.6	10.3	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
67.5°	8.8	9.6	10.5	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
65°	8.8	9.7	10.7	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
62.5°	8.8	9.8	10.8	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
60°	8.8	9.9	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
57.5°	8.8	10.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
55°	8.8	10.1	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
52.5°	8.8	10.1	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
50°	8.8	10.2	11.0	11.0	11.0	11.0	11.0	11.1	11.0	11.0	12.0
47.5°	8.8	10.3	11.0	11.0	11.0	11.0	11.0	11.3	11.0	11.0	13.0
45°	8.8	10.4	11.0	11.0	11.0	11.0	11.2	11.5	11.1	11.7	13.8
42.5°	8.8	10.4	11.0	11.0	11.0	11.0	11.4	11.7	11.3	12.3	14.3
40°	8.8	10.5	11.0	11.0	11.0	11.0	11.7	11.8	11.6	12.8	14.8
37.5°	8.8	10.5	11.0	11.0	11.0	11.0	11.9	11.9	12.2	13.6	15.2
35°	8.8	10.6	11.0	11.0	11.0	11.1	12.2	12.0	12.8	14.6	15.6
32.5°	8.8	10.7	11.0	11.0	11.0	11.4	12.5	12.2	13.4	15.8	17.2
30°	8.8	10.7	11.0	11.0	11.0	11.6	12.6	12.4	14.0	17.2	19.1
27.5°	8.8	10.8	11.0	11.0	11.0	11.9	12.7	12.9	14.8	18.8	21.2
25°	8.8	10.8	11.0	11.0	11.0	12.1	12.9	13.3	16.0	20.5	23.7
22.5°	8.8	10.8	11.0	11.0	11.0	12.4	13.0	13.8	17.3	22.4	28.3
20°	8.8	10.9	11.0	11.0	11.0	12.5	13.1	14.2	18.6	24.4	33.2
17.5°	8.8	10.9	11.0	11.0	11.0	12.7	13.3	14.6	20.0	26.5	38.4
15°	8.8	10.9	11.0	11.0	11.0	12.8	13.6	15.2	21.4	28.7	43.7
12.5°	8.8	10.9	11.0	11.0	11.0	12.9	13.8	16.3	23.5	30.9	49.0
10°	8.8	11.0	11.0	11.0	11.0	13.0	14.1	17.4	26.0	35.3	56.0
7.5°	8.8	11.0	11.0	11.0	11.0	13.1	14.4	18.6	28.4	40.3	66.5
5°	8.8	11.0	11.0	11.0	11.0	13.2	14.8	19.8	30.8	45.4	77.0
2.5°	8.8	11.0	11.0	11.0	11.0	13.2	15.1	20.9	33.1	50.3	87.2
0°	8.8	11.0	11.0	11.0	11.0	13.2	15.4	22.0	35.2	55.0	96.8
-2.5°	8.8	11.0	11.0	11.0	11.0	13.4	16.9	25.1	41.5	66.6	114.3
-5°	8.8	11.0	11.0	11.0	11.0	13.6	18.2	28.0	47.4	77.6	130.6
-7.5°	8.8	11.0	11.0	11.0	11.0	13.8	19.5	30.7	52.8	87.7	145.4
-10°	8.8	11.0	11.0	11.0	11.0	13.9	20.6	33.1	57.6	96.6	158.4
-12.5°	8.8	11.0	11.0	11.0	11.0	14.0	21.5	35.2	61.6	104.3	169.9
-15°	8.8	10.9	11.0	11.0	11.0	14.0	22.2	36.8	65.3	111.7	179.5
-17.5°	8.8	10.9	11.0	11.0	11.0	14.0	22.6	38.6	68.8	117.3	186.6
-20°	8.8	10.9	11.0	11.0	11.0	13.9	23.0	40.3	71.0	121.0	191.1



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 CATALOG NUMBER: EPH-LS-08-0680N-40-70-4S-CV5

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	8.8	10.9	11.0	11.0	11.0	13.7	23.5	41.5	71.8	122.6	192.7
-25°	8.8	10.8	11.0	11.0	11.0	13.7	23.6	42.0	71.1	121.9	191.4
-27.5°	8.8	10.8	11.0	11.0	11.0	13.6	23.2	41.9	68.7	119.8	190.2
-30°	8.8	10.8	11.0	11.0	11.0	13.5	22.4	41.2	67.2	117.0	186.1
-32.5°	8.8	10.7	11.0	11.0	11.2	13.1	21.1	40.2	66.2	111.9	178.9
-35°	8.8	10.7	11.0	11.0	11.3	12.6	20.3	38.6	64.2	104.4	168.4
-37.5°	8.8	10.7	11.0	11.0	11.5	12.2	19.6	36.2	61.3	94.5	151.8
-40°	8.8	10.7	11.0	11.0	11.6	12.4	18.6	33.1	57.4	88.2	135.0
-42.5°	8.8	10.6	11.0	11.0	11.8	12.5	17.4	29.3	52.9	80.9	117.1
-45°	8.8	10.6	11.0	11.1	11.8	12.7	15.9	25.9	47.7	72.4	99.4
-47.5°	8.8	10.5	11.0	11.1	11.9	12.9	14.0	23.7	41.4	63.1	88.9
-50°	8.8	10.5	11.0	11.2	11.9	13.0	13.9	21.1	33.4	54.0	77.3
-52.5°	8.8	10.5	11.0	11.2	11.9	13.2	14.1	18.1	28.1	44.3	65.0
-55°	8.8	10.4	11.0	11.2	11.9	13.2	14.2	15.2	24.0	34.0	53.3
-57.5°	8.8	10.4	11.0	11.2	11.9	13.1	14.4	15.4	19.8	28.1	41.0
-60°	8.8	10.4	11.0	11.2	11.8	12.9	14.5	15.5	16.4	23.4	30.7
-62.5°	8.8	10.3	11.0	11.1	11.7	12.7	14.2	15.5	16.2	18.7	25.6
-65°	8.8	10.3	11.0	11.1	11.6	12.5	13.9	15.2	15.9	17.2	20.5
-67.5°	8.8	10.3	11.0	11.1	11.5	12.3	13.5	14.6	15.4	16.4	18.0
-70°	8.8	10.2	11.0	11.0	11.4	12.0	13.1	14.0	14.7	15.4	16.6
-72.5°	8.8	10.2	11.0	11.0	11.2	11.8	12.6	13.4	14.0	14.6	15.2
-75°	8.8	10.2	11.0	10.9	11.0	11.4	12.1	12.7	13.3	13.8	14.3
-77.5°	8.8	10.1	11.0	10.8	10.9	11.1	11.6	12.1	12.5	13.0	13.4
-80°	8.8	10.1	11.0	10.7	10.7	10.8	11.1	11.4	11.8	12.2	12.5
-82.5°	8.8	10.0	11.0	10.7	10.5	10.4	10.5	10.8	11.1	11.3	11.6
-85°	8.8	10.0	11.0	10.6	10.3	10.1	9.9	10.3	10.6	10.9	11.0
-87.5°	8.8	9.9	11.0	10.5	10.1	9.7	9.4	9.8	10.3	10.7	11.0
-90°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8





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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°	10.5	9.9	9.4	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
87.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.3	7.7	7.2
85°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.5	8.3	8.1
82.5°	9.4	9.4	9.2	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
80°	10.3	10.0	9.4	8.9	8.8	8.8	8.8	8.8	8.8	8.8	8.8
77.5°	10.6	10.0	9.5	8.9	8.8	8.8	8.8	8.8	8.8	8.8	8.8
75°	10.6	10.1	9.5	9.0	8.8	8.8	8.9	9.3	9.5	9.6	9.4
72.5°	10.7	10.2	9.6	9.1	9.3	9.8	10.3	10.8	11.3	11.6	11.9
70°	10.8	10.2	10.0	10.1	10.6	11.2	12.2	13.4	14.5	15.4	16.8
67.5°	10.9	10.6	10.7	11.1	11.9	13.0	14.3	17.2	20.2	22.0	23.8
65°	11.0	10.9	11.3	12.0	13.1	15.9	19.1	22.6	28.0	31.2	32.5
62.5°	11.0	11.2	11.7	13.4	16.4	19.9	24.4	30.4	37.8	42.8	43.0
60°	11.0	11.3	13.1	16.2	19.7	24.0	29.9	38.2	49.0	57.1	52.0
57.5°	11.0	12.3	15.4	18.7	22.5	27.3	35.2	45.7	55.9	66.8	57.3
55°	11.6	14.0	17.1	20.5	24.8	30.1	38.2	47.1	58.3	61.6	50.8
52.5°	13.0	15.5	18.1	21.9	26.7	31.3	36.5	44.2	47.8	48.4	40.3
50°	14.3	16.2	18.7	22.8	27.4	30.8	31.9	36.4	36.7	33.3	28.9
47.5°	15.1	16.9	18.9	23.2	27.5	29.5	28.9	27.9	25.5	23.6	18.3
45°	15.7	17.6	19.5	23.7	27.2	27.9	25.4	20.1	21.0	18.7	17.4
42.5°	16.3	18.2	21.1	24.5	26.7	26.5	22.9	21.2	19.8	19.3	18.8
40°	16.8	18.8	23.2	26.2	26.8	26.0	26.1	24.9	21.4	22.9	23.0
37.5°	17.3	21.0	26.2	30.6	27.6	29.1	31.1	31.6	29.8	29.1	32.1
35°	17.7	23.3	32.0	36.9	34.2	35.2	39.4	41.2	41.6	41.4	43.7
32.5°	19.2	25.7	39.8	44.6	45.9	46.6	49.5	53.8	58.6	60.6	58.1
30°	22.3	32.9	48.8	53.9	59.6	67.8	66.0	69.2	80.0	84.4	88.5
27.5°	27.3	42.3	57.7	66.4	76.7	95.4	102.0	95.2	104.5	113.2	126.5
25°	33.0	66.1	67.7	80.7	103.7	131.9	149.8	157.5	137.0	152.3	187.8
22.5°	45.8	97.1	103.4	95.9	134.9	176.5	211.9	230.9	228.4	213.7	261.4
20°	68.5	128.6	145.2	148.3	178.1	227.7	283.0	315.2	345.8	399.0	538.7
17.5°	95.1	163.4	189.6	216.2	270.1	314.3	361.5	409.4	481.9	640.2	1114.3
15°	124.6	200.9	235.9	289.9	370.2	444.1	501.7	544.7	672.6	1004.4	1842.9
12.5°	156.0	240.4	283.7	368.0	475.7	580.6	662.3	748.9	964.2	1616.5	3001.3
10°	188.3	281.1	332.5	448.7	584.6	721.4	827.4	957.8	1294.2	2309.4	4265.7
7.5°	224.2	324.5	382.2	530.3	694.9	864.1	994.8	1168.3	1631.0	3009.7	5538.0
5°	259.0	369.9	435.1	600.7	787.7	989.6	1151.0	1376.4	1964.2	3688.4	6774.3
2.5°	291.0	413.9	486.9	665.0	865.7	1084.9	1257.5	1500.9	2194.9	4134.4	7684.4
0°	319.1	455.5	537.0	724.0	937.5	1173.0	1357.8	1615.3	2381.1	4403.5	8228.3
-2.5°	329.8	471.5	557.6	738.9	947.5	1188.0	1376.2	1625.3	2438.3	4512.6	8308.4
-5°	335.9	483.9	575.6	748.7	951.0	1193.8	1387.1	1625.1	2424.0	4418.1	7917.8
-7.5°	337.9	492.2	590.9	749.9	933.0	1155.5	1332.9	1539.8	2233.0	4027.5	7075.8
-10°	335.9	490.9	586.3	722.3	886.4	1088.0	1260.2	1446.6	2012.7	3537.5	6139.5
-12.5°	329.8	481.9	577.5	693.1	838.1	1015.8	1183.9	1347.3	1768.0	2954.3	5175.1
-15°	321.5	471.3	568.3	663.4	789.6	939.8	1105.1	1243.0	1513.5	2332.1	4217.8
-17.5°	311.7	459.5	559.2	634.3	742.0	861.2	1028.1	1156.1	1325.7	1935.3	3447.6
-20°	300.9	447.0	550.5	606.5	697.7	801.5	954.1	1084.0	1227.5	1622.6	2621.6



REPORT NUMBER: P731608 (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°	289.6	434.2	538.0	591.1	668.6	760.3	879.5	1007.8	1127.7	1277.4	1920.5
-25°	283.9	415.5	519.3	580.6	641.4	720.4	807.4	927.8	1034.8	1178.7	1549.8
-27.5°	281.2	397.9	497.2	568.8	614.9	684.0	756.0	849.0	971.5	1098.7	1233.3
-30°	274.6	371.8	474.5	552.4	598.1	654.3	714.6	793.6	910.7	1028.1	1146.9
-32.5°	258.5	344.0	445.3	526.1	582.7	626.4	685.0	757.3	851.5	959.2	1065.9
-35°	237.7	319.7	412.2	500.0	565.1	607.5	660.7	722.9	796.5	893.2	1007.2
-37.5°	216.8	292.8	377.7	468.5	536.6	592.5	635.0	691.5	755.4	832.1	944.3
-40°	193.5	263.2	344.4	429.6	509.4	570.7	618.1	660.7	716.0	791.3	871.6
-42.5°	168.6	234.9	309.3	389.0	468.5	538.8	598.7	639.0	686.0	751.1	824.4
-45°	147.5	204.0	272.0	345.5	420.2	497.7	561.6	620.1	662.9	712.4	777.6
-47.5°	125.1	173.0	234.9	299.2	369.5	442.1	516.8	578.9	639.3	684.4	730.5
-50°	104.2	147.1	194.6	254.3	316.4	383.9	453.5	527.2	590.6	648.9	699.2
-52.5°	90.0	119.8	161.9	209.1	264.9	323.5	388.6	456.2	525.9	592.3	644.6
-55°	74.7	100.0	129.7	169.7	214.7	266.3	322.2	384.4	445.9	510.8	570.5
-57.5°	60.0	81.7	104.8	132.9	170.7	211.1	260.5	312.2	368.5	424.1	471.5
-60°	45.4	64.2	84.8	105.7	128.9	164.2	200.1	243.7	291.5	337.7	379.4
-62.5°	31.9	47.4	65.3	84.0	102.8	121.1	149.9	182.5	215.2	254.2	290.7
-65°	26.6	33.1	46.2	62.7	79.7	96.6	113.2	129.2	156.3	183.8	209.5
-67.5°	21.1	26.9	33.0	41.1	56.1	71.2	86.9	101.6	115.9	129.8	145.8
-70°	18.7	21.1	25.8	31.4	37.0	44.5	57.8	71.5	85.6	99.8	112.1
-72.5°	16.9	19.1	21.3	23.5	28.1	32.9	37.5	42.0	50.8	63.0	75.4
-75°	15.4	17.1	19.2	21.2	23.1	25.1	27.5	31.5	35.6	39.7	43.9
-77.5°	14.1	15.2	16.7	18.6	20.3	21.8	23.4	25.2	27.1	29.1	31.2
-80°	12.8	13.2	14.0	15.0	16.5	17.9	19.3	20.7	22.0	23.4	24.9
-82.5°	11.8	12.1	12.3	12.6	13.2	14.0	15.0	16.1	16.9	17.7	18.5
-85°	11.0	11.0	11.2	11.3	11.6	11.9	12.3	12.8	13.1	13.3	13.6
-87.5°	10.7	10.5	10.2	10.1	10.1	10.2	10.3	10.4	10.4	10.5	10.5
-90°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.3	7.7	7.2



REPORT NUMBER: P731608 (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°
90°	8.8	9.9	11.0	12.1	13.2	14.3	15.4	16.5	17.6	18.7	19.8
87.5°	6.6	6.6	6.6	6.6	6.6	6.1	5.5	5.0	4.4	3.9	3.3
85°	8.0	7.7	7.4	7.0	6.6	6.1	5.5	5.0	4.4	3.9	3.3
82.5°	8.8	8.3	7.7	7.2	6.6	6.1	5.5	5.0	4.4	3.9	3.3
80°	8.8	8.3	7.8	7.2	6.7	6.1	5.6	5.0	4.4	3.9	3.3
77.5°	8.8	8.4	7.8	7.3	6.7	6.2	5.6	5.0	4.5	4.3	4.3
75°	9.0	8.6	8.5	8.2	7.8	7.4	7.0	6.7	6.3	5.9	5.5
72.5°	12.2	12.1	11.8	11.5	10.9	10.3	9.9	9.3	8.5	8.0	7.6
70°	18.0	18.8	18.2	17.0	15.1	13.5	12.6	11.7	10.8	9.9	8.9
67.5°	25.1	25.1	23.3	20.9	17.8	15.0	13.9	12.7	11.5	10.9	10.7
65°	32.4	30.3	27.2	23.6	19.3	15.2	14.0	12.8	11.6	11.0	11.0
62.5°	40.6	33.9	27.3	22.5	18.6	15.2	13.6	12.0	10.5	9.4	9.2
60°	43.7	32.4	23.4	19.4	16.2	13.6	11.9	10.6	9.5	8.8	8.8
57.5°	42.3	28.9	18.8	15.6	13.2	11.5	10.3	9.3	8.3	7.4	7.1
55°	36.1	23.6	14.1	12.1	10.9	9.6	8.6	7.9	7.3	6.6	6.6
52.5°	26.5	18.1	12.7	10.6	10.0	9.4	8.7	8.5	8.3	8.0	7.8
50°	19.4	14.0	12.1	10.8	10.4	10.4	10.7	10.7	10.5	10.3	9.9
47.5°	15.8	13.7	12.3	11.1	11.4	12.4	12.9	12.9	12.7	12.5	12.2
45°	15.3	14.1	13.4	14.1	14.8	15.4	15.5	15.1	15.8	16.0	15.7
42.5°	16.9	17.0	18.3	19.4	18.6	19.9	21.2	21.2	22.2	22.9	22.9
40°	23.7	23.1	26.5	27.5	28.0	29.3	33.0	32.7	34.3	39.0	39.9
37.5°	34.0	35.9	38.2	40.3	46.1	49.9	57.3	63.1	66.3	75.1	82.0
35°	48.0	52.7	54.1	65.7	77.7	89.0	99.3	111.7	117.0	136.6	150.3
32.5°	67.9	77.8	91.1	110.4	133.2	160.3	159.2	200.4	215.4	255.6	301.8
30°	95.0	122.6	166.6	197.0	253.1	297.1	319.3	383.8	470.3	553.0	665.6
27.5°	154.4	212.7	292.2	397.1	451.8	518.1	618.4	695.4	893.0	1081.7	1220.3
25°	265.7	387.8	537.9	692.8	789.8	876.8	1060.2	1194.7	1474.8	1685.0	1985.0
22.5°	508.0	769.1	959.0	1074.0	1282.1	1554.3	1686.4	2056.4	2471.7	3001.9	3440.2
20°	856.1	1266.8	1690.1	1948.6	2186.3	2787.1	3050.4	3743.4	4626.3	5624.1	6455.9
17.5°	1675.3	2050.5	2912.2	3751.9	4383.6	4976.8	6641.7	7831.1	10139.5	12964.7	14267.7
15°	3006.1	4054.8	5060.4	6583.5	8195.3	9988.7	12601.4	17112.2	22777.7	28955.6	35637.9
12.5°	4873.4	6787.6	8586.5	10503.8	12811.3	17217.8	23174.8	31053.0	41232.9	52155.1	64766.2
10°	6971.2	9884.4	12511.9	15406.5	19503.8	26050.2	34879.7	47033.2	65162.0	83693.0	99766.9
7.5°	8849.9	12378.1	15942.0	20131.7	26626.5	35976.1	48679.2	67655.2	91329.7	114262.1	133815.6
5°	10650.1	14771.7	18833.9	23827.6	32013.1	44215.3	60655.4	86688.4	116617.1	142062.3	163492.0
2.5°	12052.8	16644.7	21293.4	27166.5	36505.3	50388.7	69061.5	100570.9	136693.4	164913.4	189417.0
0°	12856.3	17259.9	22306.0	28390.9	39136.8	54259.8	73410.1	106961.5	142936.0	174296.7	198243.3
-2.5°	12699.0	17313.3	22472.2	28627.9	38813.3	53332.7	72210.7	104216.3	140021.9	168293.3	191497.1
-5°	11897.3	16119.0	20667.3	26067.9	35055.3	48285.4	66820.9	96897.6	130127.1	158405.2	181988.3
-7.5°	10647.1	14380.4	18339.8	23040.4	30641.3	42153.3	58085.9	81504.3	110945.8	136557.0	154232.9
-10°	9282.7	12567.6	16140.7	20394.6	26389.6	35414.3	47486.2	64403.1	88482.7	109823.7	126219.5
-12.5°	7989.0	10975.4	14083.6	17635.6	22173.3	29281.5	38456.4	51086.2	66608.4	84151.0	100898.3
-15°	6748.3	9370.8	12083.2	15371.2	19317.4	24140.0	30308.0	38805.5	49003.4	60501.2	72904.4
-17.5°	5567.2	7869.9	10421.9	13292.9	16553.8	20238.4	25411.2	31238.2	37712.3	45203.9	52306.7
-20°	4367.7	6495.3	8810.9	11366.9	14292.6	17651.5	21332.3	25709.3	30393.1	35511.7	40825.0



REPORT NUMBER: P731608 (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°	3333.5	5146.5	7172.5	9499.5	12246.3	15207.1	18062.2	20935.1	24400.4	27776.1	31166.5
-25°	2334.3	3772.0	5663.8	7888.1	10220.4	12695.1	14814.1	16839.1	19245.5	21409.7	23663.5
-27.5°	1716.8	2704.6	4269.0	6241.8	8333.5	10030.9	11814.9	13475.9	15218.4	16592.1	18179.5
-30°	1309.2	1877.9	3040.4	4579.3	6257.5	7736.5	9113.3	10617.5	12050.2	13242.7	14240.8
-32.5°	1194.0	1410.8	1999.2	3071.2	4284.3	5596.6	6787.8	8097.1	9298.9	10290.8	11085.3
-35°	1122.1	1239.7	1411.2	1952.3	2663.6	3699.7	4693.8	5766.0	6762.2	7580.4	8238.3
-37.5°	1060.8	1163.9	1265.1	1366.8	1758.6	2195.6	2913.0	3689.2	4362.1	5110.3	5694.4
-40°	984.6	1100.4	1182.2	1265.8	1359.9	1469.2	1847.8	2187.7	2568.2	3096.4	3533.7
-42.5°	901.0	998.8	1100.7	1182.6	1255.1	1332.2	1418.0	1503.0	1678.0	1900.0	2080.8
-45°	846.3	910.6	984.6	1077.6	1162.4	1226.6	1290.3	1352.1	1410.5	1463.1	1507.1
-47.5°	787.1	841.8	901.9	965.7	1028.4	1099.9	1166.9	1222.9	1267.2	1309.6	1347.4
-50°	734.5	774.9	825.6	875.2	924.7	975.4	1025.4	1068.7	1111.5	1150.1	1187.8
-52.5°	691.9	726.0	759.3	792.5	832.7	871.9	908.9	942.2	972.5	998.9	1026.7
-55°	620.3	663.2	705.7	735.3	760.7	785.3	809.6	837.2	861.3	882.0	901.5
-57.5°	522.9	574.9	622.3	657.0	689.9	720.7	742.2	758.0	773.3	787.9	801.1
-60°	419.7	458.6	504.0	548.6	589.6	626.9	650.9	671.3	688.5	703.0	715.8
-62.5°	324.4	357.7	394.8	430.6	463.7	496.5	528.4	556.2	580.0	600.2	616.8
-65°	236.3	265.4	296.9	327.4	356.5	385.3	411.7	435.8	457.5	477.0	495.0
-67.5°	168.2	189.6	212.5	233.1	256.3	281.5	306.4	328.7	348.5	364.1	375.9
-70°	123.7	135.8	150.9	168.6	187.8	205.9	223.8	241.0	257.4	271.5	284.1
-72.5°	87.9	100.4	112.4	123.6	135.5	147.4	159.5	172.2	185.1	196.0	205.4
-75°	48.2	54.4	64.5	74.4	83.9	93.0	101.1	108.2	114.4	119.5	123.9
-77.5°	34.2	38.3	42.5	46.6	50.6	55.4	60.4	65.5	70.5	74.5	78.2
-80°	26.5	28.7	31.2	33.8	36.6	39.9	43.3	46.7	50.1	52.6	54.9
-82.5°	19.4	21.0	22.8	24.4	26.0	28.1	30.2	32.2	34.2	35.6	37.0
-85°	13.8	14.9	16.1	17.3	18.5	20.4	22.3	24.1	25.9	27.1	28.3
-87.5°	10.6	11.3	11.9	12.6	13.2	14.8	16.4	18.1	19.7	20.3	20.9
-90°	6.6	6.6	6.6	6.6	6.6	6.1	5.5	5.0	4.4	3.9	3.3



REPORT NUMBER: P731608 (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°
90°	20.9	22.0	22.0	22.0	22.0	22.0	20.9	19.8	18.7	17.6	16.5
87.5°	2.8	2.2	2.2	2.2	2.2	2.2	2.8	3.3	3.9	4.4	5.0
85°	2.8	2.2	2.2	2.2	2.2	2.2	2.8	3.3	3.9	4.4	5.0
82.5°	2.8	2.2	2.2	2.2	2.2	2.2	2.8	3.3	3.9	4.4	5.0
80°	2.8	2.2	2.2	2.2	2.2	2.2	2.8	3.3	3.9	4.4	5.0
77.5°	4.3	4.4	3.3	2.2	3.3	4.4	4.3	4.3	4.3	4.5	5.0
75°	5.0	4.4	3.3	2.2	3.3	4.4	5.0	5.5	5.9	6.3	6.7
72.5°	7.1	6.6	6.6	6.6	6.6	6.6	7.1	7.6	8.0	8.5	9.3
70°	7.9	6.7	6.6	6.6	6.6	6.7	7.9	8.9	9.9	10.8	11.7
67.5°	10.8	10.8	11.0	11.0	11.0	10.8	10.8	10.7	10.9	11.5	12.7
65°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.6	12.8
62.5°	9.0	8.9	8.8	8.8	8.8	8.9	9.0	9.2	9.4	10.5	12.0
60°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	9.5	10.6
57.5°	6.9	6.7	6.6	6.6	6.6	6.7	6.9	7.1	7.4	8.3	9.3
55°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	7.3	7.9
52.5°	7.4	6.9	6.6	6.6	6.6	6.9	7.4	7.8	8.0	8.3	8.5
50°	9.5	9.0	8.8	8.8	8.8	9.0	9.5	9.9	10.3	10.5	10.7
47.5°	11.7	11.2	11.0	11.0	11.0	11.2	11.7	12.2	12.5	12.7	12.9
45°	15.0	13.9	13.2	13.2	13.2	13.9	15.0	15.7	16.0	15.8	15.1
42.5°	22.8	22.2	21.8	22.0	21.8	22.2	22.8	22.9	22.9	22.2	21.2
40°	41.8	42.9	43.4	44.0	43.4	42.9	41.8	39.9	39.0	34.3	32.7
37.5°	85.7	84.1	80.3	81.4	80.3	84.1	85.7	82.0	75.1	66.3	63.1
35°	159.2	168.8	175.6	180.5	175.6	168.8	159.2	150.3	136.6	117.0	111.7
32.5°	318.9	332.0	328.3	321.3	328.3	332.0	318.9	301.8	255.6	215.4	200.4
30°	732.1	770.3	760.0	715.2	760.0	770.3	732.1	665.6	553.0	470.3	383.8
27.5°	1319.8	1412.1	1472.4	1441.4	1472.4	1412.1	1319.8	1220.3	1081.7	893.0	695.4
25°	2243.8	2423.1	2551.5	2497.8	2551.5	2423.1	2243.8	1985.0	1685.0	1474.8	1194.7
22.5°	3989.7	4284.2	4459.0	4504.8	4459.0	4284.2	3989.7	3440.2	3001.9	2471.7	2056.4
20°	7502.1	7736.9	7783.5	7667.1	7783.5	7736.9	7502.1	6455.9	5624.1	4626.3	3743.4
17.5°	18050.9	19135.1	18340.3	17506.4	18340.3	19135.1	18050.9	14267.7	12964.7	10139.5	7831.1
15°	41292.3	45870.8	48479.1	49011.2	48479.1	45870.8	41292.3	35637.9	28955.6	22777.7	17112.2
12.5°	72759.5	80137.8	83182.8	82898.3	83182.8	80137.8	72759.5	64766.2	52155.1	41232.9	31053.0
10°	110077.8	117966.1	124753.4	124822.2	124753.4	117966.1	110077.8	99766.9	83693.0	65162.0	47033.2
7.5°	147387.5	156484.9	162870.2	164691.9	162870.2	156484.9	147387.5	133815.6	114262.1	91329.7	67655.2
5°	180049.8	191312.9	197652.1	199587.9	197652.1	191312.9	180049.8	163492.0	142062.3	116617.1	86688.4
2.5°	208766.5	222564.2	229516.8	230597.7	229516.8	222564.2	208766.5	189417.0	164913.4	136693.4	100570.9
0°	216667.4	228966.9	237971.0	241176.2	237971.0	228966.9	216667.4	198243.3	174296.7	142936.0	106961.5
-2.5°	208878.2	219638.9	225005.4	227243.8	225005.4	219638.9	208878.2	191497.1	168293.3	140021.9	104216.3
-5°	196566.0	206608.2	213442.8	215025.6	213442.8	206608.2	196566.0	181988.3	158405.2	130127.1	96897.6
-7.5°	165891.0	175775.5	178846.4	182328.0	178846.4	175775.5	165891.0	154232.9	136557.0	110945.8	81504.3
-10°	138605.2	146294.6	148409.5	150876.0	148409.5	146294.6	138605.2	126219.5	109823.7	88482.7	64403.1
-12.5°	114683.9	122300.5	125748.6	128699.8	125748.6	122300.5	114683.9	100898.3	84151.0	66608.4	51086.2
-15°	84021.5	91180.2	93653.0	95249.6	93653.0	91180.2	84021.5	72904.4	60501.2	49003.4	38805.5
-17.5°	60863.7	66315.8	69555.6	71433.9	69555.6	66315.8	60863.7	52306.7	45203.9	37712.3	31238.2
-20°	45495.5	48619.8	51129.6	51405.5	51129.6	48619.8	45495.5	40825.0	35511.7	30393.1	25709.3



REPORT NUMBER: P731608 (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°	34007.1	35868.1	37023.5	36953.7	37023.5	35868.1	34007.1	31166.5	27776.1	24400.4	20935.1
-25°	25382.3	26633.5	27429.2	27572.2	27429.2	26633.5	25382.3	23663.5	21409.7	19245.5	16839.1
-27.5°	19315.9	20196.8	20653.3	20677.5	20653.3	20196.8	19315.9	18179.5	16592.1	15218.4	13475.9
-30°	14965.0	15698.7	16185.4	16557.9	16185.4	15698.7	14965.0	14240.8	13242.7	12050.2	10617.5
-32.5°	11753.0	12379.3	12803.9	13056.6	12803.9	12379.3	11753.0	11085.3	10290.8	9298.9	8097.1
-35°	8811.2	9312.7	9612.9	9537.7	9612.9	9312.7	8811.2	8238.3	7580.4	6762.2	5766.0
-37.5°	6208.9	6634.0	6936.5	7128.0	6936.5	6634.0	6208.9	5694.4	5110.3	4362.1	3689.2
-40°	3912.2	4206.3	4415.5	4548.8	4415.5	4206.3	3912.2	3533.7	3096.4	2568.2	2187.7
-42.5°	2228.0	2338.0	2412.0	2451.6	2412.0	2338.0	2228.0	2080.8	1900.0	1678.0	1503.0
-45°	1541.0	1568.5	1588.3	1599.9	1588.3	1568.5	1541.0	1507.1	1463.1	1410.5	1352.1
-47.5°	1377.1	1399.5	1414.2	1421.6	1414.2	1399.5	1377.1	1347.4	1309.6	1267.2	1222.9
-50°	1221.6	1249.2	1265.9	1272.0	1265.9	1249.2	1221.6	1187.8	1150.1	1111.5	1068.7
-52.5°	1052.6	1075.0	1090.0	1098.1	1090.0	1075.0	1052.6	1026.7	998.9	972.5	942.2
-55°	918.5	932.8	940.2	941.9	940.2	932.8	918.5	901.5	882.0	861.3	837.2
-57.5°	812.4	821.6	828.9	834.1	828.9	821.6	812.4	801.1	787.9	773.3	758.0
-60°	726.2	734.1	738.2	739.4	738.2	734.1	726.2	715.8	703.0	688.5	671.3
-62.5°	629.6	639.1	646.4	651.4	646.4	639.1	629.6	616.8	600.2	580.0	556.2
-65°	511.3	525.6	533.2	537.0	533.2	525.6	511.3	495.0	477.0	457.5	435.8
-67.5°	385.3	392.5	394.3	393.9	394.3	392.5	385.3	375.9	364.1	348.5	328.7
-70°	295.9	306.7	310.7	312.5	310.7	306.7	295.9	284.1	271.5	257.4	241.0
-72.5°	213.9	221.5	226.0	228.9	226.0	221.5	213.9	205.4	196.0	185.1	172.2
-75°	127.7	130.8	132.8	134.2	132.8	130.8	127.7	123.9	119.5	114.4	108.2
-77.5°	81.8	85.2	86.7	88.0	86.7	85.2	81.8	78.2	74.5	70.5	65.5
-80°	57.0	59.0	59.3	59.4	59.3	59.0	57.0	54.9	52.6	50.1	46.7
-82.5°	38.2	39.5	39.6	39.6	39.6	39.5	38.2	37.0	35.6	34.2	32.2
-85°	29.5	30.7	30.8	30.8	30.8	30.7	29.5	28.3	27.1	25.9	24.1
-87.5°	21.4	22.0	23.1	24.2	23.1	22.0	21.4	20.9	20.3	19.7	18.1
-90°	2.7	2.2	1.1	0.0	1.1	2.2	2.8	3.3	3.9	4.4	5.0



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	15.4	14.3	13.2	12.1	11.0	9.9	8.8	8.8	8.8	8.8	8.8
87.5°	5.5	6.1	6.6	6.6	6.6	6.6	6.6	7.2	7.7	8.3	8.8
85°	5.5	6.1	6.6	7.0	7.4	7.7	8.0	8.1	8.3	8.5	8.8
82.5°	5.5	6.1	6.6	7.2	7.7	8.3	8.8	8.8	8.8	8.8	8.8
80°	5.6	6.1	6.7	7.2	7.8	8.3	8.8	8.8	8.8	8.8	8.8
77.5°	5.6	6.2	6.7	7.3	7.8	8.4	8.8	8.8	8.8	8.8	8.8
75°	7.0	7.4	7.8	8.2	8.5	8.6	9.0	9.4	9.6	9.5	9.3
72.5°	9.9	10.3	10.9	11.5	11.8	12.1	12.2	11.9	11.6	11.3	10.8
70°	12.6	13.5	15.1	17.0	18.2	18.8	18.0	16.8	15.4	14.5	13.4
67.5°	13.9	15.0	17.8	20.9	23.3	25.1	25.1	23.8	22.0	20.2	17.2
65°	14.0	15.2	19.3	23.6	27.2	30.3	32.4	32.5	31.2	28.0	22.6
62.5°	13.6	15.2	18.6	22.5	27.3	33.9	40.6	43.0	42.8	37.8	30.4
60°	11.9	13.6	16.2	19.4	23.4	32.4	43.7	52.0	57.1	49.0	38.2
57.5°	10.3	11.5	13.2	15.6	18.8	28.9	42.3	57.3	66.8	55.9	45.7
55°	8.6	9.6	10.9	12.1	14.1	23.6	36.1	50.8	61.6	58.3	47.1
52.5°	8.7	9.4	10.0	10.6	12.7	18.1	26.5	40.3	48.4	47.8	44.2
50°	10.7	10.4	10.4	10.8	12.1	14.0	19.4	28.9	33.3	36.7	36.4
47.5°	12.9	12.4	11.4	11.1	12.3	13.7	15.8	18.3	23.6	25.5	27.9
45°	15.5	15.4	14.8	14.1	13.4	14.1	15.3	17.4	18.7	21.0	20.1
42.5°	21.2	19.9	18.6	19.4	18.3	17.0	16.9	18.8	19.3	19.8	21.2
40°	33.0	29.3	28.0	27.5	26.5	23.1	23.7	23.0	22.9	21.4	24.9
37.5°	57.3	49.9	46.1	40.3	38.2	35.9	34.0	32.1	29.1	29.8	31.6
35°	99.3	89.0	77.7	65.7	54.1	52.7	48.0	43.7	41.4	41.6	41.2
32.5°	159.2	160.3	133.2	110.4	91.1	77.8	67.9	58.1	60.6	58.6	53.8
30°	319.3	297.1	253.1	197.0	166.6	122.6	95.0	88.5	84.4	80.0	69.2
27.5°	618.4	518.1	451.8	397.1	292.2	212.7	154.4	126.5	113.2	104.5	95.2
25°	1060.2	876.8	789.8	692.8	537.9	387.8	265.7	187.8	152.3	137.0	157.5
22.5°	1686.4	1554.3	1282.1	1074.0	959.0	769.1	508.0	261.4	213.7	228.4	230.9
20°	3050.4	2787.1	2186.3	1948.6	1690.1	1266.8	856.1	538.7	399.0	345.8	315.2
17.5°	6641.7	4976.8	4383.6	3751.9	2912.2	2050.5	1675.3	1114.3	640.2	481.9	409.4
15°	12601.4	9988.7	8195.3	6583.5	5060.4	4054.8	3006.1	1842.9	1004.4	672.6	544.7
12.5°	23174.8	17217.8	12811.3	10503.8	8586.5	6787.6	4873.4	3001.3	1616.5	964.2	748.9
10°	34879.7	26050.2	19503.8	15406.5	12511.9	9884.4	6971.2	4265.7	2309.4	1294.2	957.8
7.5°	48679.2	35976.1	26626.5	20131.7	15942.0	12378.1	8849.9	5538.0	3009.7	1631.0	1168.3
5°	60655.4	44215.3	32013.1	23827.6	18833.9	14771.7	10650.1	6774.3	3688.4	1964.2	1376.4
2.5°	69061.5	50388.7	36505.3	27166.5	21293.4	16644.7	12052.8	7684.4	4134.4	2194.9	1500.9
0°	73410.1	54259.8	39136.8	28390.9	22306.0	17259.9	12856.3	8228.3	4403.5	2381.1	1615.3
-2.5°	72210.7	53332.7	38813.3	28627.9	22472.2	17313.3	12699.0	8308.4	4512.6	2438.3	1625.3
-5°	66820.9	48285.4	35055.3	26067.9	20667.3	16119.0	11897.3	7917.8	4418.1	2424.0	1625.1
-7.5°	58085.9	42153.3	30641.3	23040.4	18339.8	14380.4	10647.1	7075.8	4027.5	2233.0	1539.8
-10°	47486.2	35414.3	26389.6	20394.6	16140.7	12567.6	9282.7	6139.5	3537.5	2012.7	1446.6
-12.5°	38456.4	29281.5	22173.3	17635.6	14083.6	10975.4	7989.0	5175.1	2954.3	1768.0	1347.3
-15°	30308.0	24140.0	19317.4	15371.2	12083.2	9370.8	6748.3	4217.8	2332.1	1513.5	1243.0
-17.5°	25411.2	20238.4	16553.8	13292.9	10421.9	7869.9	5567.2	3447.6	1935.3	1325.7	1156.1
-20°	21332.3	17651.5	14292.6	11366.9	8810.9	6495.3	4367.7	2621.6	1622.6	1227.5	1084.0





REPORT NUMBER: P731608 (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°	18062.2	15207.1	12246.3	9499.5	7172.5	5146.5	3333.5	1920.5	1277.4	1127.7	1007.8
-25°	14814.1	12695.1	10220.4	7888.1	5663.8	3772.0	2334.3	1549.8	1178.7	1034.8	927.8
-27.5°	11814.9	10030.9	8333.5	6241.8	4269.0	2704.6	1716.8	1233.3	1098.7	971.5	849.0
-30°	9113.3	7736.5	6257.5	4579.3	3040.4	1877.9	1309.2	1146.9	1028.1	910.7	793.6
-32.5°	6787.8	5596.6	4284.3	3071.2	1999.2	1410.8	1194.0	1065.9	959.2	851.5	757.3
-35°	4693.8	3699.7	2663.6	1952.3	1411.2	1239.7	1122.1	1007.2	893.2	796.5	722.9
-37.5°	2913.0	2195.6	1758.6	1366.8	1265.1	1163.9	1060.8	944.3	832.1	755.4	691.5
-40°	1847.8	1469.2	1359.9	1265.8	1182.2	1100.4	984.6	871.6	791.3	716.0	660.7
-42.5°	1418.0	1332.2	1255.1	1182.6	1100.7	998.8	901.0	824.4	751.1	686.0	639.0
-45°	1290.3	1226.6	1162.4	1077.6	984.6	910.6	846.3	777.6	712.4	662.9	620.1
-47.5°	1166.9	1099.9	1028.4	965.7	901.9	841.8	787.1	730.5	684.4	639.3	578.9
-50°	1025.4	975.4	924.7	875.2	825.6	774.9	734.5	699.2	648.9	590.6	527.2
-52.5°	908.9	871.9	832.7	792.5	759.3	726.0	691.9	644.6	592.3	525.9	456.2
-55°	809.6	785.3	760.7	735.3	705.7	663.2	620.3	570.5	510.8	445.9	384.4
-57.5°	742.2	720.7	689.9	657.0	622.3	574.9	522.9	471.5	424.1	368.5	312.2
-60°	650.9	626.9	589.6	548.6	504.0	458.6	419.7	379.4	337.7	291.5	243.7
-62.5°	528.4	496.5	463.7	430.6	394.8	357.7	324.4	290.7	254.2	215.2	182.5
-65°	411.7	385.3	356.5	327.4	296.9	265.4	236.3	209.5	183.8	156.3	129.2
-67.5°	306.4	281.5	256.3	233.1	212.5	189.6	168.2	145.8	129.8	115.9	101.6
-70°	223.8	205.9	187.8	168.6	150.9	135.8	123.7	112.1	99.8	85.6	71.5
-72.5°	159.5	147.4	135.5	123.6	112.4	100.4	87.9	75.4	63.0	50.8	42.0
-75°	101.1	93.0	83.9	74.4	64.5	54.4	48.2	43.9	39.7	35.6	31.5
-77.5°	60.4	55.4	50.6	46.6	42.5	38.3	34.2	31.2	29.1	27.1	25.2
-80°	43.3	39.9	36.6	33.8	31.2	28.7	26.5	24.9	23.4	22.0	20.7
-82.5°	30.2	28.1	26.0	24.4	22.8	21.0	19.4	18.5	17.7	16.9	16.1
-85°	22.3	20.4	18.5	17.3	16.1	14.9	13.8	13.6	13.3	13.1	12.8
-87.5°	16.4	14.8	13.2	12.6	11.9	11.3	10.6	10.5	10.5	10.4	10.4
-90°	5.5	6.1	6.6	6.6	6.6	6.6	6.6	7.2	7.7	8.3	8.8





REPORT NUMBER: P731608 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	8.8	8.8	8.8	8.8	9.4	9.9	10.5	11.0	10.4	9.9	9.4
87.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	9.0	9.2	9.3
85°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	9.2	9.6	9.8
82.5°	8.8	8.8	8.8	8.8	9.2	9.4	9.4	9.4	9.6	10.0	10.3
80°	8.8	8.8	8.8	8.9	9.4	10.0	10.3	10.3	10.2	10.3	10.6
77.5°	8.8	8.8	8.8	8.9	9.5	10.0	10.6	11.0	10.8	10.7	10.8
75°	8.9	8.8	8.8	9.0	9.5	10.1	10.6	11.0	11.0	11.0	10.9
72.5°	10.3	9.8	9.3	9.1	9.6	10.2	10.7	11.0	11.0	11.0	11.0
70°	12.2	11.2	10.6	10.1	10.0	10.2	10.8	11.0	11.0	11.0	11.0
67.5°	14.3	13.0	11.9	11.1	10.7	10.6	10.9	11.0	11.0	11.0	11.0
65°	19.1	15.9	13.1	12.0	11.3	10.9	11.0	11.0	11.0	11.0	11.0
62.5°	24.4	19.9	16.4	13.4	11.7	11.2	11.0	11.0	11.0	11.0	11.0
60°	29.9	24.0	19.7	16.2	13.1	11.3	11.0	11.0	11.0	11.0	11.0
57.5°	35.2	27.3	22.5	18.7	15.4	12.3	11.0	11.0	11.0	11.0	11.0
55°	38.2	30.1	24.8	20.5	17.1	14.0	11.6	11.0	11.0	11.0	11.0
52.5°	36.5	31.3	26.7	21.9	18.1	15.5	13.0	11.0	11.0	11.0	11.0
50°	31.9	30.8	27.4	22.8	18.7	16.2	14.3	12.0	11.0	11.0	11.1
47.5°	28.9	29.5	27.5	23.2	18.9	16.9	15.1	13.0	11.0	11.0	11.3
45°	25.4	27.9	27.2	23.7	19.5	17.6	15.7	13.8	11.7	11.1	11.5
42.5°	22.9	26.5	26.7	24.5	21.1	18.2	16.3	14.3	12.3	11.3	11.7
40°	26.1	26.0	26.8	26.2	23.2	18.8	16.8	14.8	12.8	11.6	11.8
37.5°	31.1	29.1	27.6	30.6	26.2	21.0	17.3	15.2	13.6	12.2	11.9
35°	39.4	35.2	34.2	36.9	32.0	23.3	17.7	15.6	14.6	12.8	12.0
32.5°	49.5	46.6	45.9	44.6	39.8	25.7	19.2	17.2	15.8	13.4	12.2
30°	66.0	67.8	59.6	53.9	48.8	32.9	22.3	19.1	17.2	14.0	12.4
27.5°	102.0	95.4	76.7	66.4	57.7	42.3	27.3	21.2	18.8	14.8	12.9
25°	149.8	131.9	103.7	80.7	67.7	66.1	33.0	23.7	20.5	16.0	13.3
22.5°	211.9	176.5	134.9	95.9	103.4	97.1	45.8	28.3	22.4	17.3	13.8
20°	283.0	227.7	178.1	148.3	145.2	128.6	68.5	33.2	24.4	18.6	14.2
17.5°	361.5	314.3	270.1	216.2	189.6	163.4	95.1	38.4	26.5	20.0	14.6
15°	501.7	444.1	370.2	289.9	235.9	200.9	124.6	43.7	28.7	21.4	15.2
12.5°	662.3	580.6	475.7	368.0	283.7	240.4	156.0	49.0	30.9	23.5	16.3
10°	827.4	721.4	584.6	448.7	332.5	281.1	188.3	56.0	35.3	26.0	17.4
7.5°	994.8	864.1	694.9	530.3	382.2	324.5	224.2	66.5	40.3	28.4	18.6
5°	1151.0	989.6	787.7	600.7	435.1	369.9	259.0	77.0	45.4	30.8	19.8
2.5°	1257.5	1084.9	865.7	665.0	486.9	413.9	291.0	87.2	50.3	33.1	20.9
0°	1357.8	1173.0	937.5	724.0	537.0	455.5	319.1	96.8	55.0	35.2	22.0
-2.5°	1376.2	1188.0	947.5	738.9	557.6	471.5	329.8	114.3	66.6	41.5	25.1
-5°	1387.1	1193.8	951.0	748.7	575.6	483.9	335.9	130.6	77.6	47.4	28.0
-7.5°	1332.9	1155.5	933.0	749.9	590.9	492.2	337.9	145.4	87.7	52.8	30.7
-10°	1260.2	1088.0	886.4	722.3	586.3	490.9	335.9	158.4	96.6	57.6	33.1
-12.5°	1183.9	1015.8	838.1	693.1	577.5	481.9	329.8	169.9	104.3	61.6	35.2
-15°	1105.1	939.8	789.6	663.4	568.3	471.3	321.5	179.5	111.7	65.3	36.8
-17.5°	1028.1	861.2	742.0	634.3	559.2	459.5	311.7	186.6	117.3	68.8	38.6
-20°	954.1	801.5	697.7	606.5	550.5	447.0	300.9	191.1	121.0	71.0	40.3



REPORT NUMBER: P731608 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-4S-CV5

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	879.5	760.3	668.6	591.1	538.0	434.2	289.6	192.7	122.6	71.8	41.5
-25°	807.4	720.4	641.4	580.6	519.3	415.5	283.9	191.4	121.9	71.1	42.0
-27.5°	756.0	684.0	614.9	568.8	497.2	397.9	281.2	190.2	119.8	68.7	41.9
-30°	714.6	654.3	598.1	552.4	474.5	371.8	274.6	186.1	117.0	67.2	41.2
-32.5°	685.0	626.4	582.7	526.1	445.3	344.0	258.5	178.9	111.9	66.2	40.2
-35°	660.7	607.5	565.1	500.0	412.2	319.7	237.7	168.4	104.4	64.2	38.6
-37.5°	635.0	592.5	536.6	468.5	377.7	292.8	216.8	151.8	94.5	61.3	36.2
-40°	618.1	570.7	509.4	429.6	344.4	263.2	193.5	135.0	88.2	57.4	33.1
-42.5°	598.7	538.8	468.5	389.0	309.3	234.9	168.6	117.1	80.9	52.9	29.3
-45°	561.6	497.7	420.2	345.5	272.0	204.0	147.5	99.4	72.4	47.7	25.9
-47.5°	516.8	442.1	369.5	299.2	234.9	173.0	125.1	88.9	63.1	41.4	23.7
-50°	453.5	383.9	316.4	254.3	194.6	147.1	104.2	77.3	54.0	33.4	21.1
-52.5°	388.6	323.5	264.9	209.1	161.9	119.8	90.0	65.0	44.3	28.1	18.1
-55°	322.2	266.3	214.7	169.7	129.7	100.0	74.7	53.3	34.0	24.0	15.2
-57.5°	260.5	211.1	170.7	132.9	104.8	81.7	60.0	41.0	28.1	19.8	15.4
-60°	200.1	164.2	128.9	105.7	84.8	64.2	45.4	30.7	23.4	16.4	15.5
-62.5°	149.9	121.1	102.8	84.0	65.3	47.4	31.9	25.6	18.7	16.2	15.5
-65°	113.2	96.6	79.7	62.7	46.2	33.1	26.6	20.5	17.2	15.9	15.2
-67.5°	86.9	71.2	56.1	41.1	33.0	26.9	21.1	18.0	16.4	15.4	14.6
-70°	57.8	44.5	37.0	31.4	25.8	21.1	18.7	16.6	15.4	14.7	14.0
-72.5°	37.5	32.9	28.1	23.5	21.3	19.1	16.9	15.2	14.6	14.0	13.4
-75°	27.5	25.1	23.1	21.2	19.2	17.1	15.4	14.3	13.8	13.3	12.7
-77.5°	23.4	21.8	20.3	18.6	16.7	15.2	14.1	13.4	13.0	12.5	12.1
-80°	19.3	17.9	16.5	15.0	14.0	13.2	12.8	12.5	12.2	11.8	11.4
-82.5°	15.0	14.0	13.2	12.6	12.3	12.1	11.8	11.6	11.3	11.1	10.8
-85°	12.3	11.9	11.6	11.3	11.2	11.0	11.0	11.0	10.9	10.6	10.3
-87.5°	10.3	10.2	10.1	10.1	10.2	10.5	10.7	11.0	10.7	10.3	9.8
-90°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8



REPORT NUMBER: P731608 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	8.8	9.4	9.9	10.5	11.0	9.9	8.8
87.5°	9.4	9.3	9.2	9.1	9.0	8.9	8.8
85°	9.9	9.8	9.6	9.4	9.2	9.0	8.8
82.5°	10.5	10.2	9.9	9.7	9.4	9.1	8.8
80°	11.0	10.7	10.3	9.9	9.6	9.2	8.8
77.5°	11.0	11.0	10.7	10.2	9.8	9.3	8.8
75°	11.0	11.0	11.0	10.5	9.9	9.4	8.8
72.5°	11.0	11.0	11.0	10.8	10.1	9.5	8.8
70°	11.0	11.0	11.0	11.0	10.3	9.6	8.8
67.5°	11.0	11.0	11.0	11.0	10.5	9.6	8.8
65°	11.0	11.0	11.0	11.0	10.7	9.7	8.8
62.5°	11.0	11.0	11.0	11.0	10.8	9.8	8.8
60°	11.0	11.0	11.0	11.0	11.0	9.9	8.8
57.5°	11.0	11.0	11.0	11.0	11.0	10.0	8.8
55°	11.0	11.0	11.0	11.0	11.0	10.1	8.8
52.5°	11.0	11.0	11.0	11.0	11.0	10.1	8.8
50°	11.0	11.0	11.0	11.0	11.0	10.2	8.8
47.5°	11.0	11.0	11.0	11.0	11.0	10.3	8.8
45°	11.2	11.0	11.0	11.0	11.0	10.4	8.8
42.5°	11.4	11.0	11.0	11.0	11.0	10.4	8.8
40°	11.7	11.0	11.0	11.0	11.0	10.5	8.8
37.5°	11.9	11.0	11.0	11.0	11.0	10.5	8.8
35°	12.2	11.1	11.0	11.0	11.0	10.6	8.8
32.5°	12.5	11.4	11.0	11.0	11.0	10.7	8.8
30°	12.6	11.6	11.0	11.0	11.0	10.7	8.8
27.5°	12.7	11.9	11.0	11.0	11.0	10.8	8.8
25°	12.9	12.1	11.0	11.0	11.0	10.8	8.8
22.5°	13.0	12.4	11.0	11.0	11.0	10.8	8.8
20°	13.1	12.5	11.0	11.0	11.0	10.9	8.8
17.5°	13.3	12.7	11.0	11.0	11.0	10.9	8.8
15°	13.6	12.8	11.0	11.0	11.0	10.9	8.8
12.5°	13.8	12.9	11.0	11.0	11.0	10.9	8.8
10°	14.1	13.0	11.0	11.0	11.0	11.0	8.8
7.5°	14.4	13.1	11.0	11.0	11.0	11.0	8.8
5°	14.8	13.2	11.0	11.0	11.0	11.0	8.8
2.5°	15.1	13.2	11.0	11.0	11.0	11.0	8.8
0°	15.4	13.2	11.0	11.0	11.0	11.0	8.8
-2.5°	16.9	13.4	11.0	11.0	11.0	11.0	8.8
-5°	18.2	13.6	11.0	11.0	11.0	11.0	8.8
-7.5°	19.5	13.8	11.0	11.0	11.0	11.0	8.8
-10°	20.6	13.9	11.0	11.0	11.0	11.0	8.8
-12.5°	21.5	14.0	11.0	11.0	11.0	11.0	8.8
-15°	22.2	14.0	11.0	11.0	11.0	10.9	8.8
-17.5°	22.6	14.0	11.0	11.0	11.0	10.9	8.8
-20°	23.0	13.9	11.0	11.0	11.0	10.9	8.8



REPORT NUMBER: P731608 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-4S-CV5

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	23.5	13.7	11.0	11.0	11.0	10.9	8.8
-25°	23.6	13.7	11.0	11.0	11.0	10.8	8.8
-27.5°	23.2	13.6	11.0	11.0	11.0	10.8	8.8
-30°	22.4	13.5	11.0	11.0	11.0	10.8	8.8
-32.5°	21.1	13.1	11.2	11.0	11.0	10.7	8.8
-35°	20.3	12.6	11.3	11.0	11.0	10.7	8.8
-37.5°	19.6	12.2	11.5	11.0	11.0	10.7	8.8
-40°	18.6	12.4	11.6	11.0	11.0	10.7	8.8
-42.5°	17.4	12.5	11.8	11.0	11.0	10.6	8.8
-45°	15.9	12.7	11.8	11.1	11.0	10.6	8.8
-47.5°	14.0	12.9	11.9	11.1	11.0	10.5	8.8
-50°	13.9	13.0	11.9	11.2	11.0	10.5	8.8
-52.5°	14.1	13.2	11.9	11.2	11.0	10.5	8.8
-55°	14.2	13.2	11.9	11.2	11.0	10.4	8.8
-57.5°	14.4	13.1	11.9	11.2	11.0	10.4	8.8
-60°	14.5	12.9	11.8	11.2	11.0	10.4	8.8
-62.5°	14.2	12.7	11.7	11.1	11.0	10.3	8.8
-65°	13.9	12.5	11.6	11.1	11.0	10.3	8.8
-67.5°	13.5	12.3	11.5	11.1	11.0	10.3	8.8
-70°	13.1	12.0	11.4	11.0	11.0	10.2	8.8
-72.5°	12.6	11.8	11.2	11.0	11.0	10.2	8.8
-75°	12.1	11.4	11.0	10.9	11.0	10.2	8.8
-77.5°	11.6	11.1	10.9	10.8	11.0	10.1	8.8
-80°	11.1	10.8	10.7	10.7	11.0	10.1	8.8
-82.5°	10.5	10.4	10.5	10.7	11.0	10.0	8.8
-85°	9.9	10.1	10.3	10.6	11.0	10.0	8.8
-87.5°	9.4	9.7	10.1	10.5	11.0	9.9	8.8
-90°	8.8	8.8	8.8	8.8	8.8	8.8	8.8

(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

