

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: P731349 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-80-5S-VHE**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731349 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-40-80-5S-VHE  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 5S BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

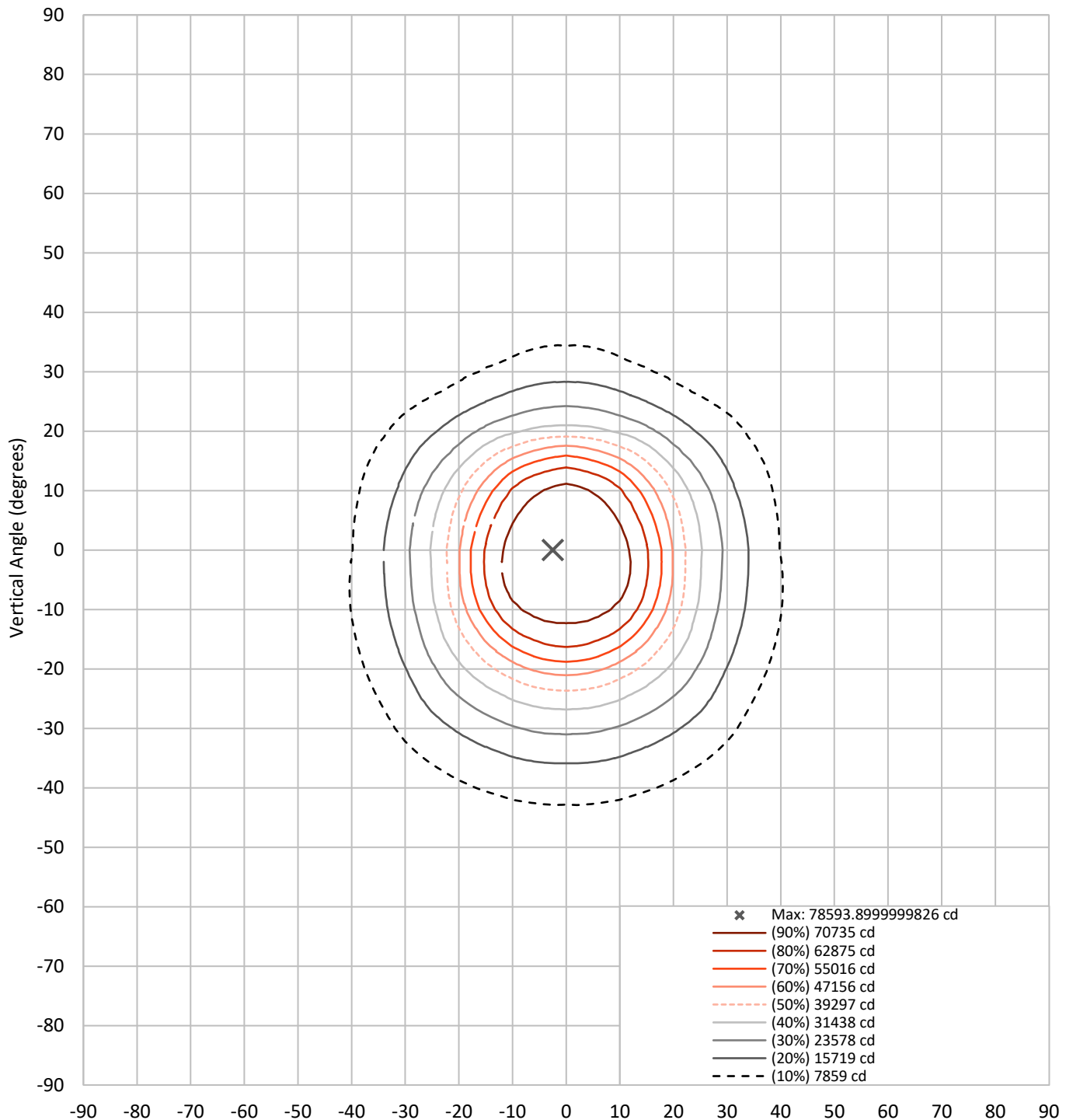
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	51175.3 lumens	Max Intensity:	78593.9 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	148.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	44.5°H x 42.5°V	Field Angle (10%):	79.6°H x 77.3°V
Beam Lumens:	28100.1 lumens	Field Lumens:	47023.8 lumens
Beam Efficiency:	54.9%	Field Efficiency:	91.9%

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





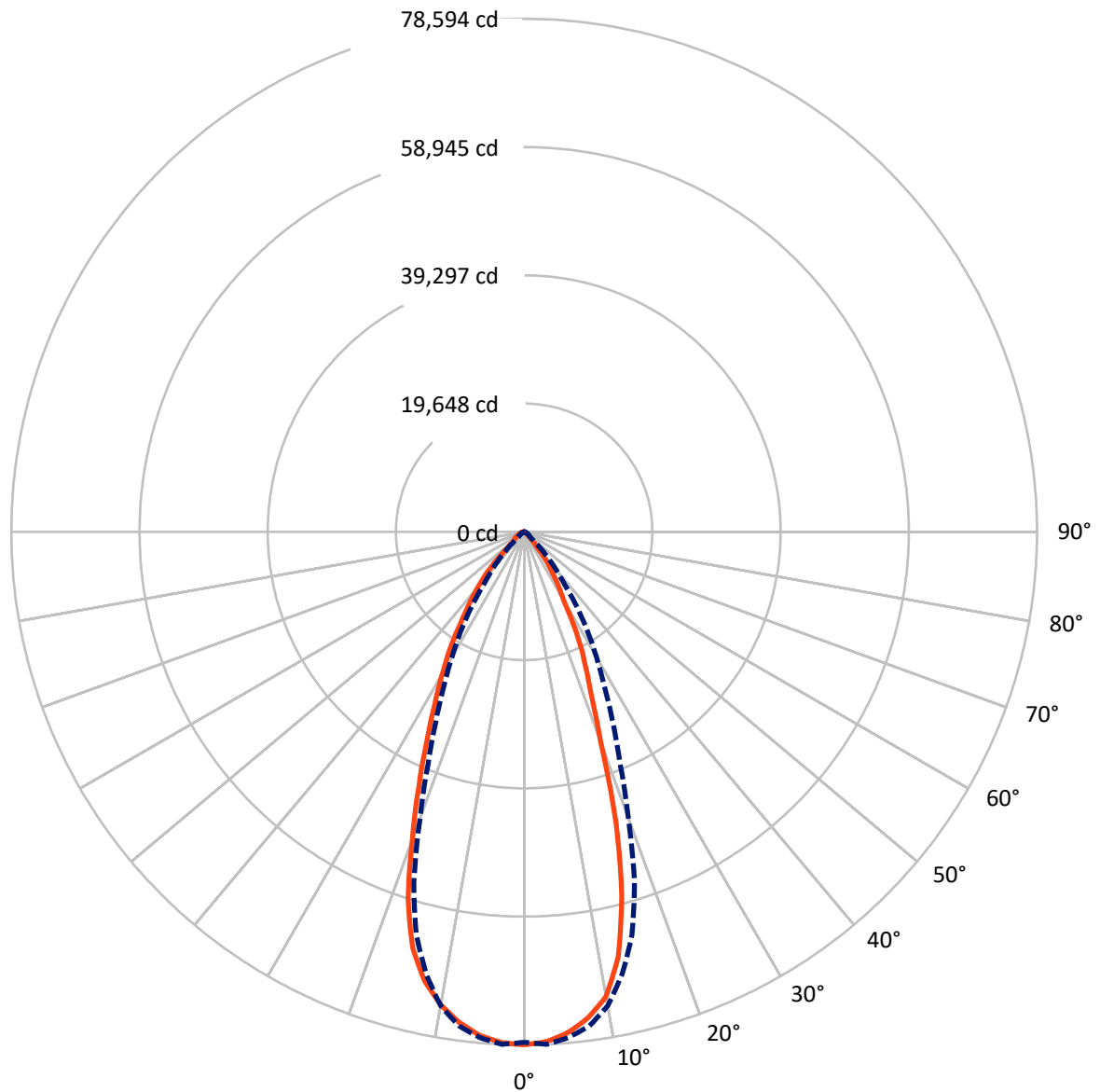
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### Lumen Table

90																
80	0.2	0.8		1.3		1.7		2.0		1.7		1.3		0.8		0.2
70																
60	0.2	0.1	0.2	0.3	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.3	0.2	0.1	0.2
50		0.3	0.4	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.4	0.3	
40	0.6	0.7	1.5	3.1	5.5	11.2	24.8	33.5	33.5	24.8	11.2	5.5	3.1	1.5	0.7	0.6
30		1.5	5.1	10.4	26.3	78.1	144.7	213.2	213.2	144.7	78.1	26.3	10.4	5.1	1.5	
20	1.3	2.6	8.8	22.5	108.3	256.1	470.8	646.4	646.4	470.8	256.1	108.3	22.5	8.8	2.6	1.3
10		3.6	11.8	50.9	236.6	584.9	1138.1	1626.5	1626.5	1138.1	584.9	236.6	50.9	11.8	3.6	
0	1.9	4.5	13.9	77.3	333.1	849.4	1704.0	2260.5	2260.5	1704.0	849.4	333.1	77.3	13.9	4.5	1.9
-10		5.0	15.5	82.4	358.9	890.7	1807.8	2295.8	2295.8	1807.8	890.7	358.9	82.4	15.5	5.0	
-20	2.2	5.2	16.3	67.9	305.6	744.4	1402.3	1893.5	1893.5	1402.3	744.4	305.6	67.9	16.3	5.2	2.2
-30		4.9	16.3	42.2	198.2	492.9	819.6	1062.4	1062.4	819.6	492.9	198.2	42.2	16.3	4.9	
-40	2.2	4.4	14.3	30.4	80.7	239.8	403.4	512.5	512.5	403.4	239.8	80.7	30.4	14.3	4.4	2.2
-50		3.7	10.6	23.0	38.9	63.6	119.0	166.8	166.8	119.0	63.6	38.9	23.0	10.6	3.7	
-60	2.0	3.0	7.0	14.4	25.5	35.7	43.9	50.2	50.2	43.9	35.7	25.5	14.4	7.0	3.0	2.0
-70		2.4	4.7	8.1	13.2	18.0	23.0	26.4	26.4	23.0	18.0	13.2	8.1	4.7	2.4	
-80																
-90	1.5	9.0		19.8		31.1		38.1		31.1		19.8		9.0		1.5

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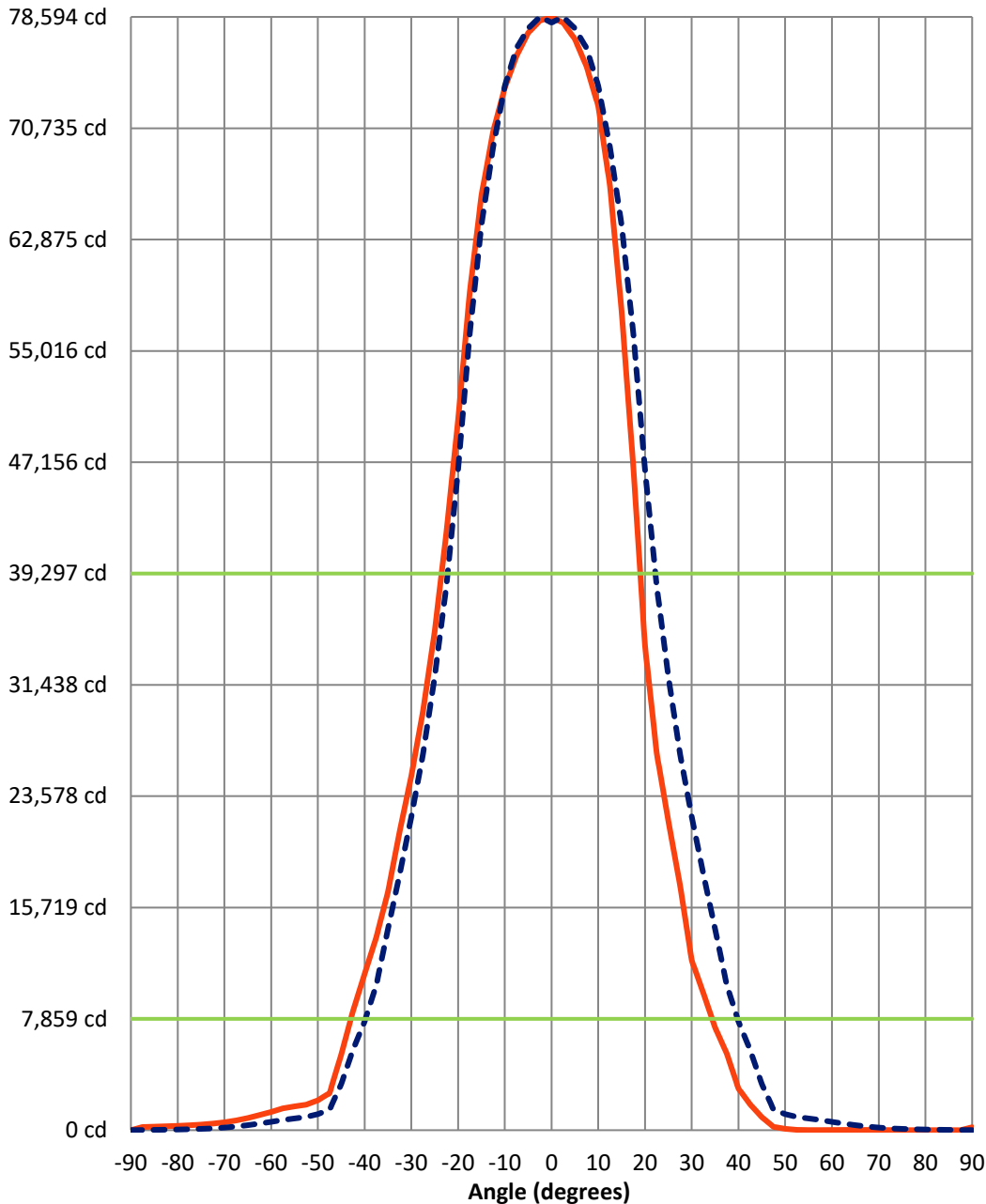
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
H Angle: 44.5°  
V Angle: 42.5°  
Lumens: 28100.1  
Efficiency: 54.9%

**Field:**  
H Angle: 79.6°  
V Angle: 77.3°  
Lumens: 47023.8  
Efficiency: 91.9%

**Spill:**  
Lumens: 4151.5  
Efficiency: 8.1%

— 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°	6.8	13.3	19.8	32.7	45.7	57.7	69.8	79.7	89.6	96.7	103.8
87.5°	6.8	6.3	5.8	5.8	5.8	5.9	5.9	5.6	5.3	5.3	5.2
85°	6.8	6.5	5.9	6.0	6.0	6.1	6.2	6.0	5.8	5.7	5.5
82.5°	6.8	6.6	6.1	6.2	6.2	6.4	6.5	6.4	6.2	6.1	5.8
80°	6.8	6.7	6.3	6.4	6.4	6.6	6.8	6.8	6.7	6.4	6.1
77.5°	6.8	6.9	6.4	6.6	6.7	6.9	7.2	7.1	7.1	6.8	6.4
75°	6.8	7.0	6.6	6.8	6.9	7.4	7.5	7.5	7.5	7.1	6.7
72.5°	6.8	7.2	6.8	7.0	7.4	7.8	7.9	7.9	7.8	7.4	7.0
70°	6.8	7.3	7.0	7.2	7.8	8.2	8.3	8.4	8.1	7.7	7.6
67.5°	6.8	7.4	7.2	7.6	8.2	8.7	8.8	8.9	8.6	8.4	8.2
65°	6.8	7.6	7.4	7.9	8.7	9.2	9.4	9.4	9.4	9.2	9.2
62.5°	6.8	7.7	7.7	8.3	9.1	9.7	10.0	10.2	10.3	10.2	10.7
60°	6.8	7.9	7.9	8.7	9.6	10.2	10.5	11.2	11.3	12.2	12.4
57.5°	6.8	8.0	8.3	9.0	10.2	10.7	11.7	12.2	13.9	14.8	15.8
55°	6.8	8.2	8.7	9.4	10.9	11.2	13.1	13.5	17.2	18.4	20.4
52.5°	6.8	8.3	9.2	9.7	11.6	11.9	14.5	17.0	20.9	24.0	25.5
50°	6.8	8.5	9.6	10.1	12.4	13.6	16.1	20.8	25.4	29.9	32.9
47.5°	6.8	8.6	10.1	10.5	13.2	15.4	18.1	24.6	31.2	36.2	41.2
45°	6.8	8.8	10.7	11.2	14.1	17.3	21.5	28.6	37.1	44.2	50.0
42.5°	6.8	8.9	11.2	11.9	15.0	19.3	24.9	33.4	43.2	52.6	63.3
40°	6.8	9.1	11.8	12.9	16.3	21.4	28.6	38.8	49.9	61.2	78.0
37.5°	6.8	9.2	12.4	14.2	17.9	23.5	32.5	44.4	57.8	71.6	93.6
35°	6.8	9.4	13.0	15.4	19.6	26.4	36.5	50.0	65.8	85.7	111.6
32.5°	6.8	9.5	13.6	16.7	21.2	29.5	40.8	55.9	74.1	100.0	132.1
30°	6.8	9.7	14.2	18.0	22.9	32.7	45.7	62.1	82.5	114.6	152.2
27.5°	6.8	9.8	14.9	19.4	25.2	35.8	50.6	69.0	92.0	129.3	172.0
25°	6.8	10.0	15.5	20.7	27.4	38.8	55.3	75.5	102.9	145.2	191.3
22.5°	6.8	10.1	16.2	22.1	29.7	41.9	59.9	81.8	113.2	158.8	211.7
20°	6.8	10.2	16.8	23.4	31.9	45.3	64.4	87.8	122.9	171.7	228.8
17.5°	6.8	10.4	17.5	24.8	34.0	48.5	68.8	93.4	132.0	183.9	244.9
15°	6.8	10.5	18.1	26.1	36.1	51.6	73.1	98.9	140.3	195.2	260.2
12.5°	6.8	10.6	18.8	27.4	38.1	54.5	77.2	104.3	148.7	205.6	274.5
10°	6.8	10.7	19.4	28.7	40.0	57.3	80.9	109.4	157.1	217.8	289.6
7.5°	6.8	10.8	20.0	30.0	41.9	59.9	84.5	114.2	164.8	229.7	307.8
5°	6.8	10.9	20.6	31.2	43.6	62.4	87.7	118.5	171.8	240.7	324.8
2.5°	6.8	11.0	21.1	32.3	45.3	64.6	90.7	122.5	178.0	250.7	340.5
0°	6.8	11.1	21.6	33.4	46.9	66.7	93.3	126.0	183.4	259.4	354.5
-2.5°	6.8	11.5	22.5	34.9	49.1	69.7	97.3	131.1	189.7	266.8	361.7
-5°	6.8	11.9	23.4	36.3	51.2	72.6	100.9	135.8	195.0	272.7	367.1
-7.5°	6.8	12.4	24.2	37.6	53.1	75.2	104.2	139.9	199.4	277.2	370.6
-10°	6.8	12.7	25.0	38.8	54.9	77.6	107.1	143.5	202.7	280.2	372.2
-12.5°	6.8	13.1	25.8	40.0	56.6	79.7	109.6	146.5	204.9	281.8	374.9
-15°	6.8	13.5	26.5	41.0	58.1	81.6	111.8	149.0	206.2	282.3	376.2
-17.5°	6.8	13.8	27.1	42.0	59.5	83.2	113.5	151.1	206.5	281.1	374.6
-20°	6.8	14.2	27.7	42.9	60.7	84.5	115.1	152.8	205.7	278.2	370.0



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**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	6.8	14.5	28.2	43.7	61.7	85.5	116.7	154.0	203.9	273.6	362.6
-25°	6.8	14.7	28.6	44.4	62.6	86.7	117.8	154.7	201.0	267.3	356.1
-27.5°	6.8	15.0	29.0	45.0	63.3	87.8	118.5	154.8	197.0	263.0	351.3
-30°	6.8	15.2	29.4	45.4	63.9	88.7	118.7	154.4	195.3	259.6	344.0
-32.5°	6.8	15.5	29.6	45.8	64.9	89.2	118.5	154.0	195.2	254.4	333.7
-35°	6.8	15.6	29.8	46.1	65.8	89.5	118.5	153.4	194.1	247.4	320.6
-37.5°	6.8	15.8	30.0	46.3	66.6	89.8	118.5	152.5	192.0	238.6	308.7
-40°	6.8	15.9	30.0	46.3	67.1	90.5	118.1	150.9	189.0	233.3	297.2
-42.5°	6.8	16.1	30.0	46.4	67.6	90.9	117.5	148.7	186.0	228.9	283.7
-45°	6.8	16.1	30.0	46.7	67.9	91.1	116.4	146.5	182.7	223.2	269.6
-47.5°	6.8	16.2	29.9	46.8	68.1	91.1	115.0	144.8	178.6	216.4	261.7
-50°	6.8	16.2	29.7	46.8	68.0	90.9	114.5	142.5	173.4	210.2	252.3
-52.5°	6.8	16.2	29.4	46.8	67.6	90.5	113.9	139.8	169.0	202.9	241.1
-55°	6.8	16.2	29.1	46.6	67.1	89.7	112.9	136.7	164.7	194.5	229.7
-57.5°	6.8	16.1	28.7	46.2	66.4	88.6	111.7	135.2	159.7	187.9	217.4
-60°	6.8	16.1	28.2	45.7	65.4	87.2	110.1	133.0	154.8	181.4	205.6
-62.5°	6.8	15.9	27.9	45.2	64.5	85.6	108.1	130.4	151.6	173.9	196.2
-65°	6.8	15.8	27.4	44.4	63.4	83.8	105.7	127.4	148.0	168.0	186.1
-67.5°	6.8	15.7	26.9	43.6	62.1	81.8	103.1	123.7	144.0	162.4	178.4
-70°	6.8	15.5	26.3	42.6	60.7	79.6	100.1	119.7	139.2	156.5	171.4
-72.5°	6.8	15.3	25.7	41.7	59.0	77.1	96.6	115.5	133.9	149.7	163.9
-75°	6.8	15.0	25.0	40.7	57.3	74.4	92.7	110.4	128.3	142.7	156.1
-77.5°	6.8	14.8	24.2	39.6	55.6	71.4	88.5	104.9	121.6	135.2	148.0
-80°	6.8	14.5	23.4	38.4	53.9	68.8	84.1	99.2	114.6	126.7	138.5
-82.5°	6.8	14.2	22.6	37.1	52.0	66.2	80.6	93.8	107.3	117.9	128.4
-85°	6.8	13.9	21.7	35.7	50.0	63.5	77.2	89.3	101.5	110.4	119.2
-87.5°	6.8	13.6	20.8	34.3	47.9	60.7	73.6	84.6	95.6	103.6	111.6
-90°	6.8	6.2	5.6	5.6	5.6	5.6	5.6	5.3	4.9	4.9	4.9





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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°	108.1	112.4	116.4	120.4	125.4	130.3	135.6	140.8	146.4	151.9	157.2
87.5°	4.9	4.6	4.6	4.6	4.4	4.1	3.9	3.7	3.4	3.1	3.0
85°	5.2	4.9	4.9	4.9	4.7	4.5	4.2	4.0	3.7	3.4	3.5
82.5°	5.6	5.6	5.3	4.9	4.9	4.9	4.6	4.3	4.1	3.9	3.8
80°	6.1	6.2	5.7	5.2	5.1	4.9	4.7	4.4	4.3	4.3	4.1
77.5°	6.3	6.2	5.9	5.6	5.3	5.1	4.9	4.7	4.6	4.4	4.3
75°	6.5	6.3	6.1	5.8	5.5	5.5	5.4	5.2	5.1	5.1	5.1
72.5°	6.8	6.7	6.4	5.9	5.7	5.9	5.9	5.7	5.9	6.1	6.1
70°	7.4	7.1	6.7	6.3	6.1	6.3	6.6	7.0	7.5	7.6	8.2
67.5°	8.0	7.7	7.1	6.8	6.7	7.0	7.4	8.9	10.4	11.2	12.0
65°	8.9	8.4	7.9	7.8	7.4	8.9	10.2	11.8	14.8	16.2	16.1
62.5°	10.0	10.1	9.3	9.5	10.8	12.1	14.3	17.7	21.1	22.5	21.3
60°	12.6	12.3	12.3	13.2	14.5	16.1	19.6	23.8	27.7	29.9	26.6
57.5°	16.2	16.0	17.0	17.5	19.4	19.8	24.5	29.7	33.1	35.7	31.4
55°	21.1	21.3	23.1	23.7	25.0	25.0	29.0	33.9	37.4	38.5	34.1
52.5°	28.1	28.4	31.7	32.1	31.7	32.1	33.6	38.8	41.7	41.8	37.9
50°	35.6	39.6	41.6	43.0	40.6	42.1	40.7	46.6	50.9	50.5	51.9
47.5°	46.9	52.2	55.1	57.3	55.5	60.1	59.1	68.1	71.2	88.1	90.8
45°	60.3	68.7	72.6	77.4	82.8	88.3	102.7	102.7	142.9	158.7	200.3
42.5°	75.3	87.9	98.8	100.8	127.4	142.9	162.5	202.7	241.9	291.2	309.9
40°	95.1	109.2	131.4	156.6	186.1	219.8	256.3	305.1	356.6	382.1	385.2
37.5°	117.1	143.6	174.6	220.2	265.6	309.9	356.1	403.8	440.9	450.4	484.9
35°	140.7	179.6	237.5	289.8	342.7	403.8	444.9	488.9	511.2	550.2	616.7
32.5°	170.5	216.5	288.5	356.6	415.3	481.8	521.2	554.9	607.2	674.8	821.7
30°	201.5	258.3	331.0	409.6	481.9	537.7	582.5	624.8	706.7	870.0	1373.8
27.5°	227.4	294.1	370.6	458.2	540.7	591.6	642.4	716.2	862.5	1199.0	2154.6
25°	250.6	323.0	409.3	511.0	591.8	647.9	714.0	818.2	1047.7	1961.3	3185.8
22.5°	273.2	351.5	453.6	566.6	643.7	703.2	803.4	991.5	1472.5	2756.8	4228.5
20°	296.6	387.8	501.6	618.2	693.3	752.2	881.4	1159.8	2144.4	3613.3	5148.7
17.5°	321.1	424.6	548.4	654.9	725.2	803.6	963.8	1297.9	2705.3	4413.1	6131.8
15°	345.0	459.8	588.4	686.6	754.3	859.1	1074.3	1705.2	3298.5	5306.2	7183.0
12.5°	367.9	491.8	619.4	711.4	783.1	910.8	1165.1	2153.8	4011.6	6135.5	8097.0
10°	389.5	520.4	645.5	734.9	814.4	965.9	1252.6	2593.0	4636.0	6674.4	8661.0
7.5°	411.7	544.3	667.5	757.3	844.5	1017.9	1348.9	2934.3	5102.1	7089.0	9096.8
5°	431.8	562.7	688.7	782.4	875.6	1064.0	1426.8	3195.1	5451.9	7431.5	9484.9
2.5°	449.4	577.1	706.8	806.0	905.9	1102.6	1449.2	3267.6	5616.2	7615.8	9866.7
0°	464.5	588.0	721.4	827.0	933.2	1134.0	1455.1	3254.9	5656.9	7671.6	10238.5
-2.5°	473.0	602.1	747.5	857.1	957.6	1159.3	1485.9	3259.7	5691.3	8062.6	10716.6
-5°	479.0	612.6	768.9	883.9	979.3	1177.1	1503.1	3185.7	5644.8	8268.5	10856.3
-7.5°	482.3	619.2	784.7	906.1	998.9	1190.0	1512.8	3065.2	5647.4	8277.9	10680.6
-10°	484.1	625.5	792.1	918.6	1015.8	1196.2	1508.1	2858.2	5423.2	8053.8	10391.1
-12.5°	489.9	631.4	794.7	927.8	1029.2	1197.7	1515.0	2655.7	5002.6	7645.9	9977.2
-15°	492.2	632.9	793.3	935.5	1051.0	1212.3	1515.2	2341.0	4456.7	7128.3	9456.7
-17.5°	490.7	630.0	788.7	946.5	1071.0	1213.5	1480.8	1928.4	3833.2	6391.9	8771.4
-20°	485.4	623.5	778.9	951.9	1082.5	1223.5	1470.7	1861.4	3222.1	5471.3	7939.2



REPORT NUMBER: P731349 (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°	477.6	613.4	764.7	939.9	1095.6	1245.5	1456.9	1772.3	2503.4	4419.5	6909.1
-25°	468.3	602.2	749.6	926.1	1101.6	1259.6	1414.2	1653.3	2081.5	3519.7	5634.1
-27.5°	458.7	586.3	733.5	903.1	1098.0	1252.9	1389.1	1587.4	1889.9	2520.0	4305.7
-30°	446.4	567.2	709.7	873.4	1065.5	1232.2	1373.8	1502.1	1708.7	2087.3	3159.2
-32.5°	431.4	544.9	683.3	839.5	1016.4	1207.4	1338.3	1449.8	1607.2	1839.2	2279.0
-35°	414.4	525.1	653.9	796.7	958.3	1145.2	1285.0	1403.0	1509.3	1687.9	1969.1
-37.5°	397.1	500.7	616.0	751.4	905.3	1057.9	1222.9	1340.5	1447.6	1559.7	1760.0
-40°	376.9	470.4	578.4	703.7	834.1	972.6	1125.6	1272.9	1378.8	1495.6	1615.7
-42.5°	354.9	441.7	538.2	646.8	763.9	888.4	1024.1	1171.7	1313.6	1425.3	1535.7
-45°	337.0	410.6	495.3	592.0	692.8	803.6	927.4	1056.7	1207.3	1351.9	1454.0
-47.5°	315.5	379.6	457.7	534.4	625.7	724.5	830.3	952.7	1079.0	1221.4	1361.0
-50°	294.9	353.7	413.8	482.9	560.3	647.2	741.4	849.3	966.1	1082.7	1209.4
-52.5°	280.8	325.8	377.0	431.5	499.2	573.6	657.1	748.6	851.0	953.0	1062.8
-55°	265.3	304.2	341.0	387.2	440.4	505.0	577.6	657.5	735.5	828.6	921.9
-57.5°	250.2	282.5	312.0	347.5	391.9	439.3	505.3	571.9	639.6	711.7	790.5
-60°	234.9	261.3	287.2	315.8	348.2	390.2	436.0	491.7	547.1	604.7	674.4
-62.5°	219.6	241.1	263.3	288.0	315.5	343.8	381.3	421.9	460.7	513.2	568.7
-65°	207.3	222.1	240.4	262.2	284.4	310.3	336.4	361.8	395.9	435.7	476.0
-67.5°	194.0	207.9	221.4	236.7	256.8	278.2	299.8	322.5	345.6	373.0	402.4
-70°	184.4	194.2	206.2	218.8	232.1	247.6	266.8	285.7	305.1	327.9	351.3
-72.5°	175.3	184.3	193.3	202.1	214.0	226.9	239.6	252.3	268.4	287.8	306.5
-75°	166.0	174.3	182.5	190.5	199.4	209.0	219.0	230.4	243.0	256.5	269.5
-77.5°	156.4	163.8	171.3	178.7	186.8	195.3	204.1	212.8	222.7	233.1	243.2
-80°	146.2	153.1	159.8	166.4	173.8	181.3	189.1	196.9	205.7	214.7	223.1
-82.5°	135.0	141.1	147.3	153.5	160.3	167.0	173.9	180.8	188.5	196.3	203.5
-85°	124.2	129.0	134.5	139.9	146.1	152.3	158.4	164.5	171.6	178.7	184.9
-87.5°	116.2	120.7	125.2	129.6	134.9	140.2	145.5	150.8	157.0	163.3	168.6
-90°	4.6	4.3	4.3	4.3	4.0	3.7	3.7	3.7	3.4	3.1	2.8



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	162.4	165.8	169.2	172.0	174.8	178.5	182.2	187.2	192.1	197.1	202.0
87.5°	3.0	2.8	2.5	2.5	2.4	2.5	2.5	2.2	1.9	1.9	1.9
85°	3.5	3.4	3.4	3.2	3.0	3.0	3.0	3.0	3.0	2.8	2.5
82.5°	3.7	3.7	3.7	3.4	3.1	3.1	3.1	3.1	3.1	2.8	2.5
80°	3.9	3.8	3.7	3.6	3.5	3.3	3.1	2.9	2.6	2.5	2.5
77.5°	4.4	4.2	4.0	3.9	3.7	3.5	3.2	2.8	2.5	2.5	2.5
75°	5.0	4.8	4.6	4.4	4.1	3.9	3.9	3.7	3.5	3.5	3.6
72.5°	6.0	5.9	5.9	6.1	6.0	6.2	6.5	6.7	7.0	7.5	8.0
70°	8.9	9.5	9.8	10.0	9.9	9.8	9.8	9.9	10.2	10.5	10.8
67.5°	13.0	14.0	14.5	14.7	13.8	13.3	13.3	13.5	14.0	14.9	16.1
65°	17.0	16.7	16.3	15.9	16.1	16.2	16.0	16.2	17.0	18.3	19.9
62.5°	19.9	17.3	15.7	14.9	15.4	16.4	15.7	15.2	15.9	16.7	17.5
60°	22.8	17.8	14.2	13.1	12.9	13.4	12.3	11.3	11.6	11.9	12.3
57.5°	25.5	19.1	13.2	11.2	9.4	8.5	8.2	7.9	7.7	7.5	7.6
55°	28.0	20.8	13.0	11.5	10.2	9.9	9.1	8.7	8.3	8.2	8.3
52.5°	31.0	26.7	21.3	19.8	22.3	22.5	19.9	23.6	26.4	27.7	28.3
50°	50.7	45.4	54.5	53.6	64.3	71.8	69.1	77.5	90.0	97.8	101.1
47.5°	111.3	111.5	129.5	145.4	158.6	175.8	189.0	201.8	219.7	230.7	235.7
45°	211.2	229.2	247.9	275.2	301.5	333.4	371.7	401.9	523.1	643.8	753.5
42.5°	323.3	343.0	370.4	430.0	500.7	664.5	957.2	1120.7	1324.7	1546.7	1631.9
40°	416.5	445.2	520.6	688.2	1096.4	1485.1	1912.0	2273.1	2592.6	2776.5	2930.2
37.5°	531.8	600.1	943.7	1418.1	1925.7	2412.8	2852.5	3234.0	3565.2	3833.8	4099.6
35°	699.7	1153.5	1661.1	2278.0	2817.5	3268.7	3724.3	4161.5	4537.0	4938.2	5534.3
32.5°	1326.4	1919.5	2572.4	3125.4	3652.6	4222.0	4700.7	5400.2	5948.1	6679.5	7797.3
30°	2128.8	2873.3	3465.3	4018.4	4694.6	5460.8	6260.1	7330.0	8448.0	9614.3	10814.6
27.5°	3159.3	3911.2	4535.4	5273.1	6165.8	7185.5	8713.7	10221.8	11825.2	13283.6	14392.1
25°	4401.3	5197.6	6264.5	7334.9	8612.4	10355.0	12071.9	13919.7	15527.2	16958.5	18560.7
22.5°	5565.3	6870.6	8279.6	9895.4	11975.9	13941.2	16063.9	17933.9	19951.4	21991.3	23569.0
20°	6548.0	8248.5	10269.6	12599.1	14905.1	17131.3	19601.7	22582.4	25585.9	28269.1	30216.2
17.5°	7873.6	10027.2	12543.0	15312.0	17794.6	20553.4	23991.5	27864.4	32072.9	35796.6	38749.2
15°	9322.0	11836.8	14681.5	17582.7	20723.6	24420.4	28841.4	33787.4	38935.3	44156.7	49021.2
12.5°	10306.7	13253.0	16359.4	19809.1	23726.7	28683.1	34051.4	39534.4	45417.3	51914.0	57556.9
10°	11148.5	14417.1	18164.7	22177.4	26679.0	32007.0	37555.4	44215.2	51558.4	57956.1	64000.1
7.5°	11981.1	15821.9	19736.7	23914.7	28860.5	34647.5	41214.0	48376.3	55849.5	62803.3	67745.9
5°	12966.3	16951.0	20865.5	25279.0	30458.2	36477.8	43404.0	51628.8	59502.5	65894.5	70352.4
2.5°	13780.9	17628.3	21636.6	26004.8	31327.8	37612.7	45129.9	54270.1	62349.3	68326.0	72359.9
0°	14195.7	18062.1	22121.8	26560.7	32017.5	38430.4	46632.0	56233.7	63869.5	69390.8	73710.9
-2.5°	14246.3	17924.1	21909.1	26287.2	31620.3	38160.4	46568.3	56283.5	64265.2	70003.8	74266.0
-5°	14099.0	17742.5	21719.7	26100.5	31361.6	38173.9	46616.0	55957.9	63670.5	69614.7	73628.7
-7.5°	13743.9	17408.9	21393.5	25709.7	30888.1	37495.0	45368.8	53836.6	61769.7	68192.4	71895.3
-10°	13223.8	16824.8	20748.0	24879.8	29763.4	35871.8	42913.5	50665.8	58682.3	64823.2	69093.5
-12.5°	12565.9	15973.9	19724.2	23630.5	28241.2	33932.3	40209.2	46700.7	53420.6	60421.7	64869.4
-15°	11810.5	14924.7	18435.2	22362.5	26920.9	31663.8	36649.8	41938.4	48081.6	53808.3	58985.6
-17.5°	11093.8	13776.0	17051.4	20877.8	24759.5	28880.6	33153.7	37471.5	42397.8	46893.1	50914.4
-20°	10193.1	12476.9	15494.9	18894.8	22501.7	26072.5	29742.9	33241.1	36817.4	40476.3	43670.1



REPORT NUMBER: P731349 (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°	9131.6	11352.5	13870.4	16830.8	20293.6	23471.7	26411.3	29145.2	32011.7	34543.4	37171.8
-25°	7975.1	10110.5	12424.4	15123.0	17781.8	20662.9	23102.7	25427.6	27651.0	29639.1	31683.0
-27.5°	6554.9	8809.3	11090.2	13250.0	15444.0	17512.7	19787.5	21932.5	23786.7	25426.8	27046.7
-30°	4955.0	7347.8	9505.4	11358.1	13097.5	14822.9	16564.4	18364.4	20119.7	21613.2	22939.9
-32.5°	3655.9	5652.0	7646.3	9461.9	10984.2	12410.3	13764.6	15176.8	16404.6	17665.2	18892.2
-35°	2418.8	3829.6	5485.3	7331.0	8916.5	10116.2	11344.2	12470.1	13395.6	14373.0	15299.3
-37.5°	2035.6	2411.1	3518.6	5017.2	6485.6	7865.1	9089.8	10068.6	10920.4	11701.1	12501.1
-40°	1795.7	2009.8	2325.0	2869.4	4104.3	5317.9	6579.6	7620.0	8527.6	9275.9	10012.4
-42.5°	1638.2	1785.1	1942.1	2156.5	2367.9	2962.2	3997.9	4896.0	5747.1	6590.2	7349.1
-45°	1556.6	1639.0	1728.8	1845.4	1935.8	2096.9	2276.8	2445.8	3123.2	3855.3	4468.0
-47.5°	1458.7	1546.7	1613.7	1668.6	1712.6	1783.4	1858.2	1955.9	2112.7	2297.6	2438.8
-50°	1333.5	1440.3	1507.3	1562.4	1593.9	1621.3	1648.2	1709.5	1794.4	1895.2	1975.2
-52.5°	1171.7	1277.4	1372.2	1443.8	1478.7	1512.7	1546.6	1588.7	1637.0	1695.3	1737.0
-55°	1019.3	1107.5	1189.6	1256.3	1316.5	1371.4	1424.1	1468.7	1520.9	1576.2	1615.2
-57.5°	874.5	945.8	1013.2	1071.0	1123.1	1169.2	1223.2	1281.7	1348.4	1411.9	1456.6
-60°	739.3	795.9	851.9	899.0	941.4	979.2	1029.0	1078.2	1136.6	1188.6	1226.5
-62.5°	618.4	667.9	709.3	744.7	776.6	808.3	850.2	891.4	939.4	981.0	1012.5
-65°	513.8	555.1	584.2	610.5	633.7	660.7	693.1	726.0	763.8	796.1	822.0
-67.5°	433.2	461.1	479.4	495.6	514.9	536.3	560.8	587.1	616.5	641.0	660.7
-70°	372.2	389.6	400.7	412.8	426.9	441.7	458.3	478.1	500.5	519.5	535.9
-72.5°	323.9	337.2	346.4	355.8	364.2	374.4	385.6	400.4	416.8	431.7	445.6
-75°	282.0	291.6	300.2	308.3	315.6	324.2	333.2	345.7	359.2	371.4	383.0
-77.5°	253.9	261.3	267.0	272.5	277.8	285.0	292.3	302.4	312.9	323.1	332.9
-80°	231.4	237.1	241.9	245.9	249.6	255.7	262.0	270.2	278.6	287.4	296.1
-82.5°	210.5	215.5	220.2	224.0	227.5	232.9	238.5	245.9	253.3	260.7	267.9
-85°	191.0	195.6	199.9	203.5	207.1	211.5	215.9	222.3	228.7	235.3	241.9
-87.5°	174.0	178.3	182.6	185.4	188.2	192.1	196.1	201.5	206.9	212.6	218.3
-90°	2.5	2.5	2.5	2.2	1.9	1.9	1.9	1.6	1.2	1.2	1.2



REPORT NUMBER: P731349 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-5S-VHE

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	204.5	206.9	208.2	209.4	208.2	206.9	204.5	202.0	197.1	192.1	187.2
87.5°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.9	1.9	1.9	2.2
85°	2.2	1.9	2.2	2.5	2.2	1.9	2.2	2.5	2.8	3.0	3.0
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.8	3.1	3.1
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.9
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.8
75°	3.4	3.1	3.1	3.1	3.1	3.1	3.4	3.6	3.5	3.5	3.7
72.5°	8.3	8.4	8.9	9.3	8.9	8.4	8.3	8.0	7.5	7.0	6.7
70°	10.9	11.0	11.1	11.1	11.1	11.0	10.9	10.8	10.5	10.2	9.9
67.5°	16.8	17.1	17.8	18.5	17.8	17.1	16.8	16.1	14.9	14.0	13.5
65°	21.0	21.9	22.2	22.2	22.2	21.9	21.0	19.9	18.3	17.0	16.2
62.5°	18.2	19.0	19.1	19.1	19.1	19.0	18.2	17.5	16.7	15.9	15.2
60°	12.7	13.1	13.3	13.6	13.3	13.1	12.7	12.3	11.9	11.6	11.3
57.5°	7.7	8.1	8.1	8.0	8.1	8.1	7.7	7.6	7.5	7.7	7.9
55°	8.4	8.5	8.4	8.0	8.4	8.5	8.4	8.3	8.2	8.3	8.7
52.5°	27.5	26.1	24.7	23.5	24.7	26.1	27.5	28.3	27.7	26.4	23.6
50°	100.1	98.3	96.0	93.3	96.0	98.3	100.1	101.1	97.8	90.0	77.5
47.5°	240.1	240.7	238.3	234.1	238.3	240.7	240.1	235.7	230.7	219.7	201.8
45°	849.2	895.4	920.3	937.6	920.3	895.4	849.2	753.5	643.8	523.1	401.9
42.5°	1706.4	1771.3	1820.5	1830.7	1820.5	1771.3	1706.4	1631.9	1546.7	1324.7	1120.7
40°	3112.4	3123.2	2942.6	2670.0	2942.6	3123.2	3112.4	2930.2	2776.5	2592.6	2273.1
37.5°	4416.4	4872.1	5401.5	5671.7	5401.5	4872.1	4416.4	4099.6	3833.8	3565.2	3234.0
35°	6338.6	7024.1	7246.5	7252.3	7246.5	7024.1	6338.6	5534.3	4938.2	4537.0	4161.5
32.5°	8805.4	9362.7	9660.3	9579.5	9660.3	9362.7	8805.4	7797.3	6679.5	5948.1	5400.2
30°	11514.0	11998.9	12002.8	11840.7	12002.8	11998.9	11514.0	10814.6	9614.3	8448.0	7330.0
27.5°	15539.4	16564.1	17285.3	17479.7	17285.3	16564.1	15539.4	14392.1	13283.6	11825.2	10221.8
25°	20004.4	21130.4	21822.8	22074.8	21822.8	21130.4	20004.4	18560.7	16958.5	15527.2	13919.7
22.5°	25037.4	26132.1	26631.7	26893.0	26631.7	26132.1	25037.4	23569.0	21991.3	19951.4	17933.9
20°	32072.4	33628.9	34215.7	34466.4	34215.7	33628.9	32072.4	30216.2	28269.1	25585.9	22582.4
17.5°	41817.0	44891.2	46813.4	47800.5	46813.4	44891.2	41817.0	38749.2	35796.6	32072.9	27864.4
15°	52621.4	55742.3	57794.7	59025.4	57794.7	55742.3	52621.4	49021.2	44156.7	38935.3	33787.4
12.5°	61890.2	64672.3	66654.7	67833.2	66654.7	64672.3	61890.2	57556.9	51914.0	45417.3	39534.4
10°	67836.4	70222.4	72279.0	73283.5	72279.0	70222.4	67836.4	64000.1	57956.1	51558.4	44215.2
7.5°	71197.1	73971.3	75086.2	75773.2	75086.2	73971.3	71197.1	67745.9	62803.3	55849.5	48376.3
5°	73801.6	75994.0	77023.2	77525.4	77023.2	75994.0	73801.6	70352.4	65894.5	59502.5	51628.8
2.5°	75540.3	77443.6	78171.4	78576.6	78171.4	77443.6	75540.3	72359.9	68326.0	62349.3	54270.1
0°	76374.7	77778.0	78593.9	78196.1	78593.9	77778.0	76374.7	73710.9	69390.8	63869.5	56233.7
-2.5°	76380.6	77714.4	78320.9	78025.7	78320.9	77714.4	76380.6	74266.0	70003.8	64265.2	56283.5
-5°	75727.1	76722.5	77461.3	77224.6	77461.3	76722.5	75727.1	73628.7	69614.7	63670.5	55957.9
-7.5°	73964.8	75287.9	75829.0	75855.3	75829.0	75287.9	73964.8	71895.3	68192.4	61769.7	53836.6
-10°	71540.6	73007.5	73583.5	73642.3	73583.5	73007.5	71540.6	69093.5	64823.2	58682.3	50665.8
-12.5°	67937.5	69658.3	70487.3	70635.1	70487.3	69658.3	67937.5	64869.4	60421.7	53420.6	46700.7
-15°	62344.3	64663.6	65972.7	66432.1	65972.7	64663.6	62344.3	58985.6	53808.3	48081.6	41938.4
-17.5°	54740.5	57511.6	59144.0	59719.6	59144.0	57511.6	54740.5	50914.4	46893.1	42397.8	37471.5
-20°	46809.1	48863.4	50121.8	50640.4	50121.8	48863.4	46809.1	43670.1	40476.3	36817.4	33241.1



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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°	39594.7	41251.0	42186.0	42601.3	42186.0	41251.0	39594.7	37171.8	34543.4	32011.7	29145.2
-25°	33337.5	34732.6	35212.0	35482.4	35212.0	34732.6	33337.5	31683.0	29639.1	27651.0	25427.6
-27.5°	28225.0	29331.7	29589.9	29828.6	29589.9	29331.7	28225.0	27046.7	25426.8	23786.7	21932.5
-30°	23917.1	24880.1	25011.8	25276.0	25011.8	24880.1	23917.1	22939.9	21613.2	20119.7	18364.4
-32.5°	19888.4	20745.9	21074.4	21124.9	21074.4	20745.9	19888.4	18892.2	17665.2	16404.6	15176.8
-35°	16030.6	16595.7	16819.3	16833.0	16819.3	16595.7	16030.6	15299.3	14373.0	13395.6	12470.1
-37.5°	12997.4	13357.7	13616.7	13545.3	13616.7	13357.7	12997.4	12501.1	11701.1	10920.4	10068.6
-40°	10425.2	10787.6	11024.3	10966.7	11024.3	10787.6	10425.2	10012.4	9275.9	8527.6	7620.0
-42.5°	7767.7	8166.3	8390.1	8328.2	8390.1	8166.3	7767.7	7349.1	6590.2	5747.1	4896.0
-45°	4817.3	5168.7	5333.6	5233.2	5333.6	5168.7	4817.3	4468.0	3855.3	3123.2	2445.8
-47.5°	2513.2	2593.2	2618.7	2582.9	2618.7	2593.2	2513.2	2438.8	2297.6	2112.7	1955.9
-50°	2037.7	2087.9	2109.4	2103.0	2109.4	2087.9	2037.7	1975.2	1895.2	1794.4	1709.5
-52.5°	1769.8	1793.0	1800.7	1796.1	1800.7	1793.0	1769.8	1737.0	1695.3	1637.0	1588.7
-55°	1648.1	1671.1	1679.1	1676.3	1679.1	1671.1	1648.1	1615.2	1576.2	1520.9	1468.7
-57.5°	1493.7	1521.9	1539.4	1548.4	1539.4	1521.9	1493.7	1456.6	1411.9	1348.4	1281.7
-60°	1257.0	1279.6	1286.1	1282.8	1286.1	1279.6	1257.0	1226.5	1188.6	1136.6	1078.2
-62.5°	1037.2	1055.8	1069.6	1079.0	1069.6	1055.8	1037.2	1012.5	981.0	939.4	891.4
-65°	840.9	854.3	857.1	854.8	857.1	854.3	840.9	822.0	796.1	763.8	726.0
-67.5°	674.6	684.6	685.9	683.7	685.9	684.6	674.6	660.7	641.0	616.5	587.1
-70°	547.0	555.4	556.5	555.3	556.5	555.4	547.0	535.9	519.5	500.5	478.1
-72.5°	453.7	459.8	464.5	468.2	464.5	459.8	453.7	445.6	431.7	416.8	400.4
-75°	388.9	393.3	394.4	394.7	394.4	393.3	388.9	383.0	371.4	359.2	345.7
-77.5°	338.1	342.5	345.6	348.3	345.6	342.5	338.1	332.9	323.1	312.9	302.4
-80°	300.0	303.4	305.9	308.2	305.9	303.4	300.0	296.1	287.4	278.6	270.2
-82.5°	271.6	275.1	277.3	279.2	277.3	275.1	271.6	267.9	260.7	253.3	245.9
-85°	244.8	247.5	249.5	251.4	249.5	247.5	244.8	241.9	235.3	228.7	222.3
-87.5°	221.0	223.5	224.8	226.1	224.8	223.5	221.0	218.3	212.6	206.9	201.5
-90°	0.9	0.6	0.6	0.6	0.6	0.6	0.9	1.2	1.2	1.2	1.6



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	182.2	178.5	174.8	172.0	169.2	165.8	162.4	157.2	151.9	146.4	140.8
87.5°	2.5	2.5	2.4	2.5	2.5	2.8	3.0	3.0	3.1	3.4	3.7
85°	3.0	3.0	3.0	3.2	3.4	3.4	3.5	3.5	3.4	3.7	4.0
82.5°	3.1	3.1	3.1	3.4	3.7	3.7	3.7	3.8	3.9	4.1	4.3
80°	3.1	3.3	3.5	3.6	3.7	3.8	3.9	4.1	4.3	4.3	4.4
77.5°	3.2	3.5	3.7	3.9	4.0	4.2	4.4	4.3	4.4	4.6	4.7
75°	3.9	3.9	4.1	4.4	4.6	4.8	5.0	5.1	5.1	5.1	5.2
72.5°	6.5	6.2	6.0	6.1	5.9	5.9	6.0	6.1	6.1	5.9	5.7
70°	9.8	9.8	9.9	10.0	9.8	9.5	8.9	8.2	7.6	7.5	7.0
67.5°	13.3	13.3	13.8	14.7	14.5	14.0	13.0	12.0	11.2	10.4	8.9
65°	16.0	16.2	16.1	15.9	16.3	16.7	17.0	16.1	16.2	14.8	11.8
62.5°	15.7	16.4	15.4	14.9	15.7	17.3	19.9	21.3	22.5	21.1	17.7
60°	12.3	13.4	12.9	13.1	14.2	17.8	22.8	26.6	29.9	27.7	23.8
57.5°	8.2	8.5	9.4	11.2	13.2	19.1	25.5	31.4	35.7	33.1	29.7
55°	9.1	9.9	10.2	11.5	13.0	20.8	28.0	34.1	38.5	37.4	33.9
52.5°	19.9	22.5	22.3	19.8	21.3	26.7	31.0	37.9	41.8	41.7	38.8
50°	69.1	71.8	64.3	53.6	54.5	45.4	50.7	51.9	50.5	50.9	46.6
47.5°	189.0	175.8	158.6	145.4	129.5	111.5	111.3	90.8	88.1	71.2	68.1
45°	371.7	333.4	301.5	275.2	247.9	229.2	211.2	200.3	158.7	142.9	102.7
42.5°	957.2	664.5	500.7	430.0	370.4	343.0	323.3	309.9	291.2	241.9	202.7
40°	1912.0	1485.1	1096.4	688.2	520.6	445.2	416.5	385.2	382.1	356.6	305.1
37.5°	2852.5	2412.8	1925.7	1418.1	943.7	600.1	531.8	484.9	450.4	440.9	403.8
35°	3724.3	3268.7	2817.5	2278.0	1661.1	1153.5	699.7	616.7	550.2	511.2	488.9
32.5°	4700.7	4222.0	3652.6	3125.4	2572.4	1919.5	1326.4	821.7	674.8	607.2	554.9
30°	6260.1	5460.8	4694.6	4018.4	3465.3	2873.3	2128.8	1373.8	870.0	706.7	624.8
27.5°	8713.7	7185.5	6165.8	5273.1	4535.4	3911.2	3159.3	2154.6	1199.0	862.5	716.2
25°	12071.9	10355.0	8612.4	7334.9	6264.5	5197.6	4401.3	3185.8	1961.3	1047.7	818.2
22.5°	16063.9	13941.2	11975.9	9895.4	8279.6	6870.6	5565.3	4228.5	2756.8	1472.5	991.5
20°	19601.7	17131.3	14905.1	12599.1	10269.6	8248.5	6548.0	5148.7	3613.3	2144.4	1159.8
17.5°	23991.5	20553.4	17794.6	15312.0	12543.0	10027.2	7873.6	6131.8	4413.1	2705.3	1297.9
15°	28841.4	24420.4	20723.6	17582.7	14681.5	11836.8	9322.0	7183.0	5306.2	3298.5	1705.2
12.5°	34051.4	28683.1	23726.7	19809.1	16359.4	13253.0	10306.7	8097.0	6135.5	4011.6	2153.8
10°	37555.4	32007.0	26679.0	22177.4	18164.7	14417.1	11148.5	8661.0	6674.4	4636.0	2593.0
7.5°	41214.0	34647.5	28860.5	23914.7	19736.7	15821.9	11981.1	9096.8	7089.0	5102.1	2934.3
5°	43404.0	36477.8	30458.2	25279.0	20865.5	16951.0	12966.3	9484.9	7431.5	5451.9	3195.1
2.5°	45129.9	37612.7	31327.8	26004.8	21636.6	17628.3	13780.9	9866.7	7615.8	5616.2	3267.6
0°	46632.0	38430.4	32017.5	26560.7	22121.8	18062.1	14195.7	10238.5	7671.6	5656.9	3254.9
-2.5°	46568.3	38160.4	31620.3	26287.2	21909.1	17924.1	14246.3	10716.6	8062.6	5691.3	3259.7
-5°	46616.0	38173.9	31361.6	26100.5	21719.7	17742.5	14099.0	10856.3	8268.5	5644.8	3185.7
-7.5°	45368.8	37495.0	30888.1	25709.7	21393.5	17408.9	13743.9	10680.6	8277.9	5647.4	3065.2
-10°	42913.5	35871.8	29763.4	24879.8	20748.0	16824.8	13223.8	10391.1	8053.8	5423.2	2858.2
-12.5°	40209.2	33932.3	28241.2	23630.5	19724.2	15973.9	12565.9	9977.2	7645.9	5002.6	2655.7
-15°	36649.8	31663.8	26920.9	22362.5	18435.2	14924.7	11810.5	9456.7	7128.3	4456.7	2341.0
-17.5°	33153.7	28880.6	24759.5	20877.8	17051.4	13776.0	11093.8	8771.4	6391.9	3833.2	1928.4
-20°	29742.9	26072.5	22501.7	18894.8	15494.9	12476.9	10193.1	7939.2	5471.3	3222.1	1861.4



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	26411.3	23471.7	20293.6	16830.8	13870.4	11352.5	9131.6	6909.1	4419.5	2503.4	1772.3
-25°	23102.7	20662.9	17781.8	15123.0	12424.4	10110.5	7975.1	5634.1	3519.7	2081.5	1653.3
-27.5°	19787.5	17512.7	15444.0	13250.0	11090.2	8809.3	6554.9	4305.7	2520.0	1889.9	1587.4
-30°	16564.4	14822.9	13097.5	11358.1	9505.4	7347.8	4955.0	3159.2	2087.3	1708.7	1502.1
-32.5°	13764.6	12410.3	10984.2	9461.9	7646.3	5652.0	3655.9	2279.0	1839.2	1607.2	1449.8
-35°	11344.2	10116.2	8916.5	7331.0	5485.3	3829.6	2418.8	1969.1	1687.9	1509.3	1403.0
-37.5°	9089.8	7865.1	6485.6	5017.2	3518.6	2411.1	2035.6	1760.0	1559.7	1447.6	1340.5
-40°	6579.6	5317.9	4104.3	2869.4	2325.0	2009.8	1795.7	1615.7	1495.6	1378.8	1272.9
-42.5°	3997.9	2962.2	2367.9	2156.5	1942.1	1785.1	1638.2	1535.7	1425.3	1313.6	1171.7
-45°	2276.8	2096.9	1935.8	1845.4	1728.8	1639.0	1556.6	1454.0	1351.9	1207.3	1056.7
-47.5°	1858.2	1783.4	1712.6	1668.6	1613.7	1546.7	1458.7	1361.0	1221.4	1079.0	952.7
-50°	1648.2	1621.3	1593.9	1562.4	1507.3	1440.3	1333.5	1209.4	1082.7	966.1	849.3
-52.5°	1546.6	1512.7	1478.7	1443.8	1372.2	1277.4	1171.7	1062.8	953.0	851.0	748.6
-55°	1424.1	1371.4	1316.5	1256.3	1189.6	1107.5	1019.3	921.9	828.6	735.5	657.5
-57.5°	1223.2	1169.2	1123.1	1071.0	1013.2	945.8	874.5	790.5	711.7	639.6	571.9
-60°	1029.0	979.2	941.4	899.0	851.9	795.9	739.3	674.4	604.7	547.1	491.7
-62.5°	850.2	808.3	776.6	744.7	709.3	667.9	618.4	568.7	513.2	460.7	421.9
-65°	693.1	660.7	633.7	610.5	584.2	555.1	513.8	476.0	435.7	395.9	361.8
-67.5°	560.8	536.3	514.9	495.6	479.4	461.1	433.2	402.4	373.0	345.6	322.5
-70°	458.3	441.7	426.9	412.8	400.7	389.6	372.2	351.3	327.9	305.1	285.7
-72.5°	385.6	374.4	364.2	355.8	346.4	337.2	323.9	306.5	287.8	268.4	252.3
-75°	333.2	324.2	315.6	308.3	300.2	291.6	282.0	269.5	256.5	243.0	230.4
-77.5°	292.3	285.0	277.8	272.5	267.0	261.3	253.9	243.2	233.1	222.7	212.8
-80°	262.0	255.7	249.6	245.9	241.9	237.1	231.4	223.1	214.7	205.7	196.9
-82.5°	238.5	232.9	227.5	224.0	220.2	215.5	210.5	203.5	196.3	188.5	180.8
-85°	215.9	211.5	207.1	203.5	199.9	195.6	191.0	184.9	178.7	171.6	164.5
-87.5°	196.1	192.1	188.2	185.4	182.6	178.3	174.0	168.6	163.3	157.0	150.8
-90°	1.9	1.9	1.9	2.2	2.5	2.5	2.5	2.8	3.1	3.4	3.7





REPORT NUMBER: P731349 (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°	135.6	130.3	125.4	120.4	116.4	112.4	108.1	103.8	96.7	89.6	79.7
87.5°	3.9	4.1	4.4	4.6	4.6	4.6	4.9	5.2	5.3	5.3	5.6
85°	4.2	4.5	4.7	4.9	4.9	4.9	5.2	5.5	5.7	5.8	6.0
82.5°	4.6	4.9	4.9	4.9	5.3	5.6	5.6	5.8	6.1	6.2	6.4
80°	4.7	4.9	5.1	5.2	5.7	6.2	6.1	6.1	6.4	6.7	6.8
77.5°	4.9	5.1	5.3	5.6	5.9	6.2	6.3	6.4	6.8	7.1	7.1
75°	5.4	5.5	5.5	5.8	6.1	6.3	6.5	6.7	7.1	7.5	7.5
72.5°	5.9	5.9	5.7	5.9	6.4	6.7	6.8	7.0	7.4	7.8	7.9
70°	6.6	6.3	6.1	6.3	6.7	7.1	7.4	7.6	7.7	8.1	8.4
67.5°	7.4	7.0	6.7	6.8	7.1	7.7	8.0	8.2	8.4	8.6	8.9
65°	10.2	8.9	7.4	7.8	7.9	8.4	8.9	9.2	9.2	9.4	9.4
62.5°	14.3	12.1	10.8	9.5	9.3	10.1	10.0	10.7	10.2	10.3	10.2
60°	19.6	16.1	14.5	13.2	12.3	12.3	12.6	12.4	12.2	11.3	11.2
57.5°	24.5	19.8	19.4	17.5	17.0	16.0	16.2	15.8	14.8	13.9	12.2
55°	29.0	25.0	25.0	23.7	23.1	21.3	21.1	20.4	18.4	17.2	13.5
52.5°	33.6	32.1	31.7	32.1	31.7	28.4	28.1	25.5	24.0	20.9	17.0
50°	40.7	42.1	40.6	43.0	41.6	39.6	35.6	32.9	29.9	25.4	20.8
47.5°	59.1	60.1	55.5	57.3	55.1	52.2	46.9	41.2	36.2	31.2	24.6
45°	102.7	88.3	82.8	77.4	72.6	68.7	60.3	50.0	44.2	37.1	28.6
42.5°	162.5	142.9	127.4	100.8	98.8	87.9	75.3	63.3	52.6	43.2	33.4
40°	256.3	219.8	186.1	156.6	131.4	109.2	95.1	78.0	61.2	49.9	38.8
37.5°	356.1	309.9	265.6	220.2	174.6	143.6	117.1	93.6	71.6	57.8	44.4
35°	444.9	403.8	342.7	289.8	237.5	179.6	140.7	111.6	85.7	65.8	50.0
32.5°	521.2	481.8	415.3	356.6	288.5	216.5	170.5	132.1	100.0	74.1	55.9
30°	582.5	537.7	481.9	409.6	331.0	258.3	201.5	152.2	114.6	82.5	62.1
27.5°	642.4	591.6	540.7	458.2	370.6	294.1	227.4	172.0	129.3	92.0	69.0
25°	714.0	647.9	591.8	511.0	409.3	323.0	250.6	191.3	145.2	102.9	75.5
22.5°	803.4	703.2	643.7	566.6	453.6	351.5	273.2	211.7	158.8	113.2	81.8
20°	881.4	752.2	693.3	618.2	501.6	387.8	296.6	228.8	171.7	122.9	87.8
17.5°	963.8	803.6	725.2	654.9	548.4	424.6	321.1	244.9	183.9	132.0	93.4
15°	1074.3	859.1	754.3	686.6	588.4	459.8	345.0	260.2	195.2	140.3	98.9
12.5°	1165.1	910.8	783.1	711.4	619.4	491.8	367.9	274.5	205.6	148.7	104.3
10°	1252.6	965.9	814.4	734.9	645.5	520.4	389.5	289.6	217.8	157.1	109.4
7.5°	1348.9	1017.9	844.5	757.3	667.5	544.3	411.7	307.8	229.7	164.8	114.2
5°	1426.8	1064.0	875.6	782.4	688.7	562.7	431.8	324.8	240.7	171.8	118.5
2.5°	1449.2	1102.6	905.9	806.0	706.8	577.1	449.4	340.5	250.7	178.0	122.5
0°	1455.1	1134.0	933.2	827.0	721.4	588.0	464.5	354.5	259.4	183.4	126.0
-2.5°	1485.9	1159.3	957.6	857.1	747.5	602.1	473.0	361.7	266.8	189.7	131.1
-5°	1503.1	1177.1	979.3	883.9	768.9	612.6	479.0	367.1	272.7	195.0	135.8
-7.5°	1512.8	1190.0	998.9	906.1	784.7	619.2	482.3	370.6	277.2	199.4	139.9
-10°	1508.1	1196.2	1015.8	918.6	792.1	625.5	484.1	372.2	280.2	202.7	143.5
-12.5°	1515.0	1197.7	1029.2	927.8	794.7	631.4	489.9	374.9	281.8	204.9	146.5
-15°	1515.2	1212.3	1051.0	935.5	793.3	632.9	492.2	376.2	282.3	206.2	149.0
-17.5°	1480.8	1213.5	1071.0	946.5	788.7	630.0	490.7	374.6	281.1	206.5	151.1
-20°	1470.7	1223.5	1082.5	951.9	778.9	623.5	485.4	370.0	278.2	205.7	152.8



REPORT NUMBER: P731349 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1456.9	1245.5	1095.6	939.9	764.7	613.4	477.6	362.6	273.6	203.9	154.0
-25°	1414.2	1259.6	1101.6	926.1	749.6	602.2	468.3	356.1	267.3	201.0	154.7
-27.5°	1389.1	1252.9	1098.0	903.1	733.5	586.3	458.7	351.3	263.0	197.0	154.8
-30°	1373.8	1232.2	1065.5	873.4	709.7	567.2	446.4	344.0	259.6	195.3	154.4
-32.5°	1338.3	1207.4	1016.4	839.5	683.3	544.9	431.4	333.7	254.4	195.2	154.0
-35°	1285.0	1145.2	958.3	796.7	653.9	525.1	414.4	320.6	247.4	194.1	153.4
-37.5°	1222.9	1057.9	905.3	751.4	616.0	500.7	397.1	308.7	238.6	192.0	152.5
-40°	1125.6	972.6	834.1	703.7	578.4	470.4	376.9	297.2	233.3	189.0	150.9
-42.5°	1024.1	888.4	763.9	646.8	538.2	441.7	354.9	283.7	228.9	186.0	148.7
-45°	927.4	803.6	692.8	592.0	495.3	410.6	337.0	269.6	223.2	182.7	146.5
-47.5°	830.3	724.5	625.7	534.4	457.7	379.6	315.5	261.7	216.4	178.6	144.8
-50°	741.4	647.2	560.3	482.9	413.8	353.7	294.9	252.3	210.2	173.4	142.5
-52.5°	657.1	573.6	499.2	431.5	377.0	325.8	280.8	241.1	202.9	169.0	139.8
-55°	577.6	505.0	440.4	387.2	341.0	304.2	265.3	229.7	194.5	164.7	136.7
-57.5°	505.3	439.3	391.9	347.5	312.0	282.5	250.2	217.4	187.9	159.7	135.2
-60°	436.0	390.2	348.2	315.8	287.2	261.3	234.9	205.6	181.4	154.8	133.0
-62.5°	381.3	343.8	315.5	288.0	263.3	241.1	219.6	196.2	173.9	151.6	130.4
-65°	336.4	310.3	284.4	262.2	240.4	222.1	207.3	186.1	168.0	148.0	127.4
-67.5°	299.8	278.2	256.8	236.7	221.4	207.9	194.0	178.4	162.4	144.0	123.7
-70°	266.8	247.6	232.1	218.8	206.2	194.2	184.4	171.4	156.5	139.2	119.7
-72.5°	239.6	226.9	214.0	202.1	193.3	184.3	175.3	163.9	149.7	133.9	115.5
-75°	219.0	209.0	199.4	190.5	182.5	174.3	166.0	156.1	142.7	128.3	110.4
-77.5°	204.1	195.3	186.8	178.7	171.3	163.8	156.4	148.0	135.2	121.6	104.9
-80°	189.1	181.3	173.8	166.4	159.8	153.1	146.2	138.5	126.7	114.6	99.2
-82.5°	173.9	167.0	160.3	153.5	147.3	141.1	135.0	128.4	117.9	107.3	93.8
-85°	158.4	152.3	146.1	139.9	134.5	129.0	124.2	119.2	110.4	101.5	89.3
-87.5°	145.5	140.2	134.9	129.6	125.2	120.7	116.2	111.6	103.6	95.6	84.6
-90°	3.7	3.7	4.0	4.3	4.3	4.3	4.6	4.9	4.9	4.9	5.3



REPORT NUMBER: P731349 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	69.8	57.7	45.7	32.7	19.8	13.3	6.8
87.5°	5.9	5.9	5.8	5.8	5.8	6.3	6.8
85°	6.2	6.1	6.0	6.0	5.9	6.5	6.8
82.5°	6.5	6.4	6.2	6.2	6.1	6.6	6.8
80°	6.8	6.6	6.4	6.4	6.3	6.7	6.8
77.5°	7.2	6.9	6.7	6.6	6.4	6.9	6.8
75°	7.5	7.4	6.9	6.8	6.6	7.0	6.8
72.5°	7.9	7.8	7.4	7.0	6.8	7.2	6.8
70°	8.3	8.2	7.8	7.2	7.0	7.3	6.8
67.5°	8.8	8.7	8.2	7.6	7.2	7.4	6.8
65°	9.4	9.2	8.7	7.9	7.4	7.6	6.8
62.5°	10.0	9.7	9.1	8.3	7.7	7.7	6.8
60°	10.5	10.2	9.6	8.7	7.9	7.9	6.8
57.5°	11.7	10.7	10.2	9.0	8.3	8.0	6.8
55°	13.1	11.2	10.9	9.4	8.7	8.2	6.8
52.5°	14.5	11.9	11.6	9.7	9.2	8.3	6.8
50°	16.1	13.6	12.4	10.1	9.6	8.5	6.8
47.5°	18.1	15.4	13.2	10.5	10.1	8.6	6.8
45°	21.5	17.3	14.1	11.2	10.7	8.8	6.8
42.5°	24.9	19.3	15.0	11.9	11.2	8.9	6.8
40°	28.6	21.4	16.3	12.9	11.8	9.1	6.8
37.5°	32.5	23.5	17.9	14.2	12.4	9.2	6.8
35°	36.5	26.4	19.6	15.4	13.0	9.4	6.8
32.5°	40.8	29.5	21.2	16.7	13.6	9.5	6.8
30°	45.7	32.7	22.9	18.0	14.2	9.7	6.8
27.5°	50.6	35.8	25.2	19.4	14.9	9.8	6.8
25°	55.3	38.8	27.4	20.7	15.5	10.0	6.8
22.5°	59.9	41.9	29.7	22.1	16.2	10.1	6.8
20°	64.4	45.3	31.9	23.4	16.8	10.2	6.8
17.5°	68.8	48.5	34.0	24.8	17.5	10.4	6.8
15°	73.1	51.6	36.1	26.1	18.1	10.5	6.8
12.5°	77.2	54.5	38.1	27.4	18.8	10.6	6.8
10°	80.9	57.3	40.0	28.7	19.4	10.7	6.8
7.5°	84.5	59.9	41.9	30.0	20.0	10.8	6.8
5°	87.7	62.4	43.6	31.2	20.6	10.9	6.8
2.5°	90.7	64.6	45.3	32.3	21.1	11.0	6.8
0°	93.3	66.7	46.9	33.4	21.6	11.1	6.8
-2.5°	97.3	69.7	49.1	34.9	22.5	11.5	6.8
-5°	100.9	72.6	51.2	36.3	23.4	11.9	6.8
-7.5°	104.2	75.2	53.1	37.6	24.2	12.4	6.8
-10°	107.1	77.6	54.9	38.8	25.0	12.7	6.8
-12.5°	109.6	79.7	56.6	40.0	25.8	13.1	6.8
-15°	111.8	81.6	58.1	41.0	26.5	13.5	6.8
-17.5°	113.5	83.2	59.5	42.0	27.1	13.8	6.8
-20°	115.1	84.5	60.7	42.9	27.7	14.2	6.8



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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-5S-VHE

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	116.7	85.5	61.7	43.7	28.2	14.5	6.8
-25°	117.8	86.7	62.6	44.4	28.6	14.7	6.8
-27.5°	118.5	87.8	63.3	45.0	29.0	15.0	6.8
-30°	118.7	88.7	63.9	45.4	29.4	15.2	6.8
-32.5°	118.5	89.2	64.9	45.8	29.6	15.5	6.8
-35°	118.5	89.5	65.8	46.1	29.8	15.6	6.8
-37.5°	118.5	89.8	66.6	46.3	30.0	15.8	6.8
-40°	118.1	90.5	67.1	46.3	30.0	15.9	6.8
-42.5°	117.5	90.9	67.6	46.4	30.0	16.1	6.8
-45°	116.4	91.1	67.9	46.7	30.0	16.1	6.8
-47.5°	115.0	91.1	68.1	46.8	29.9	16.2	6.8
-50°	114.5	90.9	68.0	46.8	29.7	16.2	6.8
-52.5°	113.9	90.5	67.6	46.8	29.4	16.2	6.8
-55°	112.9	89.7	67.1	46.6	29.1	16.2	6.8
-57.5°	111.7	88.6	66.4	46.2	28.7	16.1	6.8
-60°	110.1	87.2	65.4	45.7	28.2	16.1	6.8
-62.5°	108.1	85.6	64.5	45.2	27.9	15.9	6.8
-65°	105.7	83.8	63.4	44.4	27.4	15.8	6.8
-67.5°	103.1	81.8	62.1	43.6	26.9	15.7	6.8
-70°	100.1	79.6	60.7	42.6	26.3	15.5	6.8
-72.5°	96.6	77.1	59.0	41.7	25.7	15.3	6.8
-75°	92.7	74.4	57.3	40.7	25.0	15.0	6.8
-77.5°	88.5	71.4	55.6	39.6	24.2	14.8	6.8
-80°	84.1	68.8	53.9	38.4	23.4	14.5	6.8
-82.5°	80.6	66.2	52.0	37.1	22.6	14.2	6.8
-85°	77.2	63.5	50.0	35.7	21.7	13.9	6.8
-87.5°	73.6	60.7	47.9	34.3	20.8	13.6	6.8
-90°	5.6	5.6	5.6	5.6	5.6	6.2	6.8

(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

