

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: P731325 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-70-5S-VHE**

Issue Date: 11/16/2023

**Test Information**

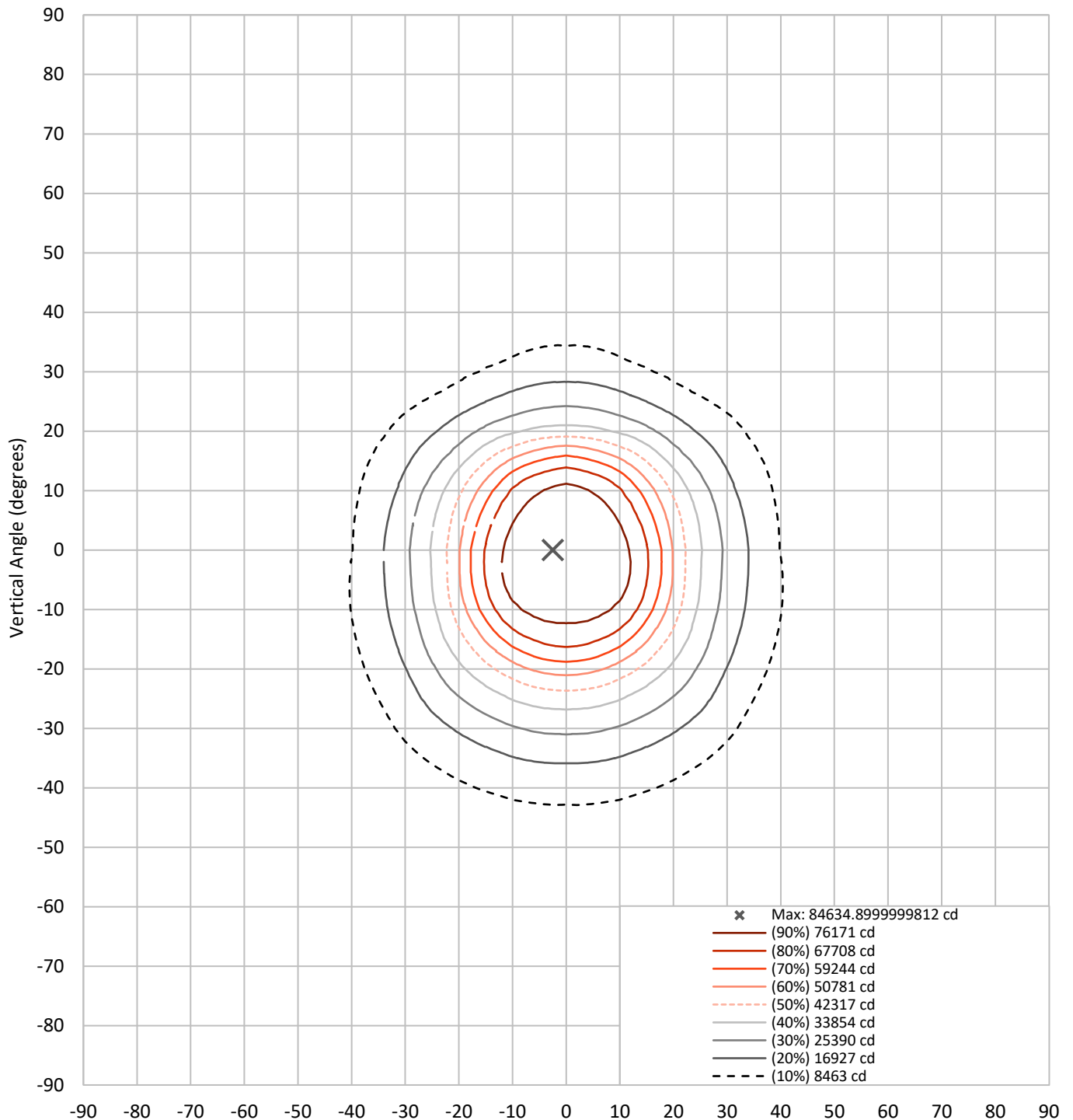
Test Method: LM-79-08  
Report Number: P731325 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-40-70-5S-VHE  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 70 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:	55108.8 lumens	Max Intensity:	84634.9 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	159.4 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:	30259.9 lumens	Field Lumens:	50638.2 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





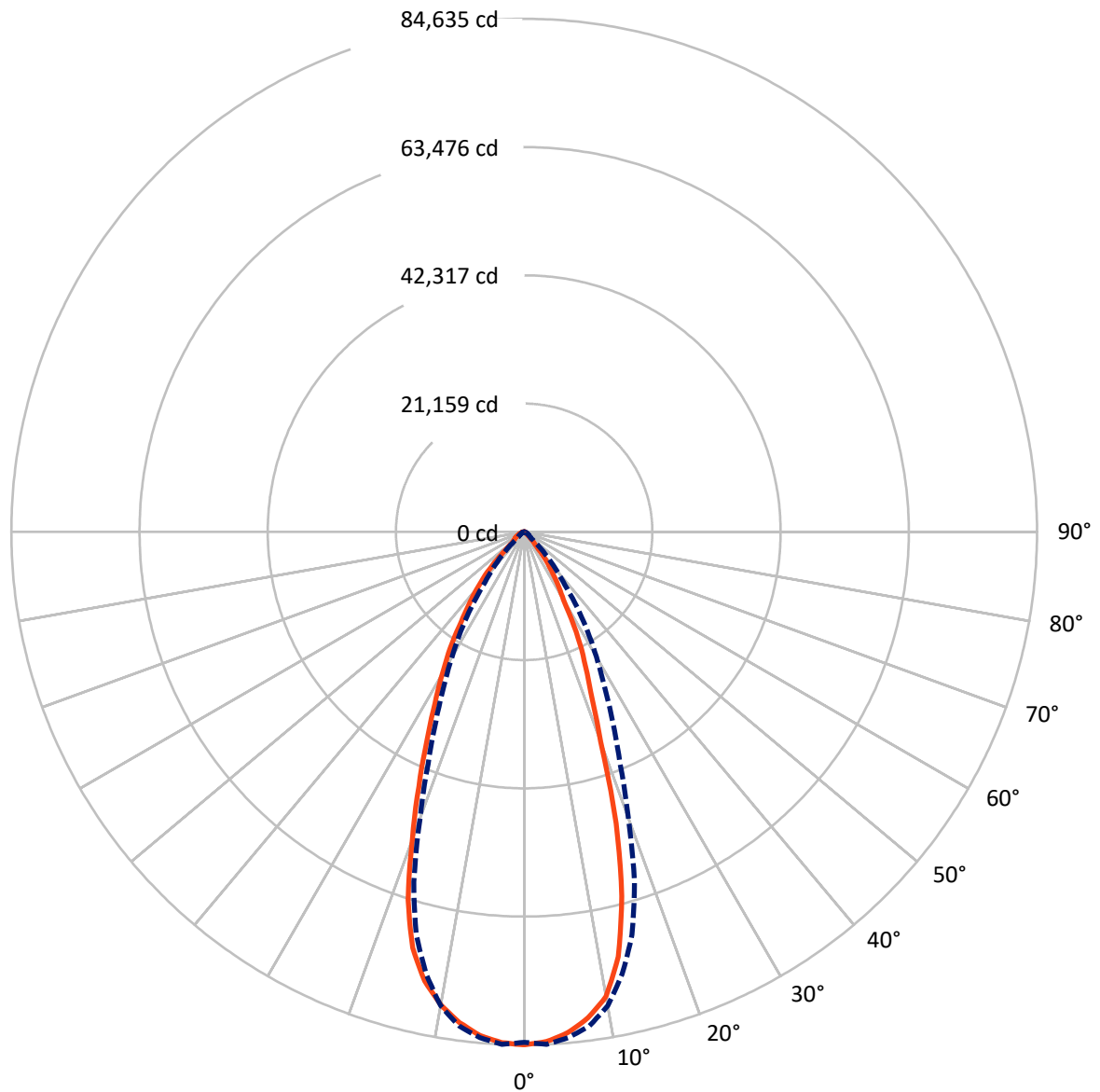
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### Lumen Table

90	0.2		0.8		1.4		1.9		2.1		1.9		1.4		0.8		0.2	
80	0.2		0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.5	0.4	0.4	0.3	0.2	0.1	0.2	
70	0.2		0.3	0.5	0.8	0.8	0.6	0.7	0.8	0.8	0.7	0.6	0.8	0.8	0.5	0.3	0.2	
60	0.6		0.8	1.6	3.3	5.9	12.1	26.7	36.1	36.1	26.7	12.1	5.9	3.3	1.6	0.8	0.6	
50	0.6		1.7	5.5	11.2	28.3	84.1	155.8	229.5	229.5	155.8	84.1	28.3	11.2	5.5	1.7	0.6	
40	1.4		2.9	9.5	24.3	116.7	275.8	507.0	696.1	696.1	507.0	275.8	116.7	24.3	9.5	2.9	1.4	
30	1.4		3.9	12.7	54.9	254.8	629.9	1225.6	1751.6	1751.6	1225.6	629.9	254.8	54.9	12.7	3.9	1.4	
20	2.0		4.9	15.0	83.2	358.7	914.7	1835.0	2434.2	2434.2	1835.0	914.7	358.7	83.2	15.0	4.9	2.0	
10	2.0		5.4	16.7	88.7	386.5	959.2	1946.8	2472.3	2472.3	1946.8	959.2	386.5	88.7	16.7	5.4	2.0	
0	2.4		5.6	17.6	73.2	329.1	801.6	1510.1	2039.0	2039.0	1510.1	801.6	329.1	73.2	17.6	5.6	2.4	
-10	2.4		5.3	17.5	45.4	213.4	530.8	882.6	1144.1	1144.1	882.6	530.8	213.4	45.4	17.5	5.3	2.4	
-20	2.4		4.8	15.4	32.7	86.9	258.2	434.4	551.9	551.9	434.4	258.2	86.9	32.7	15.4	4.8	2.4	
-30	2.4		4.0	11.4	24.8	41.9	68.5	128.2	179.7	179.7	128.2	68.5	41.9	24.8	11.4	4.0	2.4	
-40	2.2		3.3	7.5	15.5	27.5	38.4	47.3	54.1	54.1	47.3	38.4	27.5	15.5	7.5	3.3	2.2	
-50	2.2		2.6	5.0	8.7	14.2	19.4	24.7	28.5	28.5	24.7	19.4	14.2	8.7	5.0	2.6	2.2	
-60	1.6		9.6		21.3		33.5		41.0		33.5		21.3		9.6		1.6	
-70	1.6		9.6		21.3		33.5		41.0		33.5		21.3		9.6		1.6	
-80	1.6		9.6		21.3		33.5		41.0		33.5		21.3		9.6		1.6	
-90	1.6		9.6		21.3		33.5		41.0		33.5		21.3		9.6		1.6	

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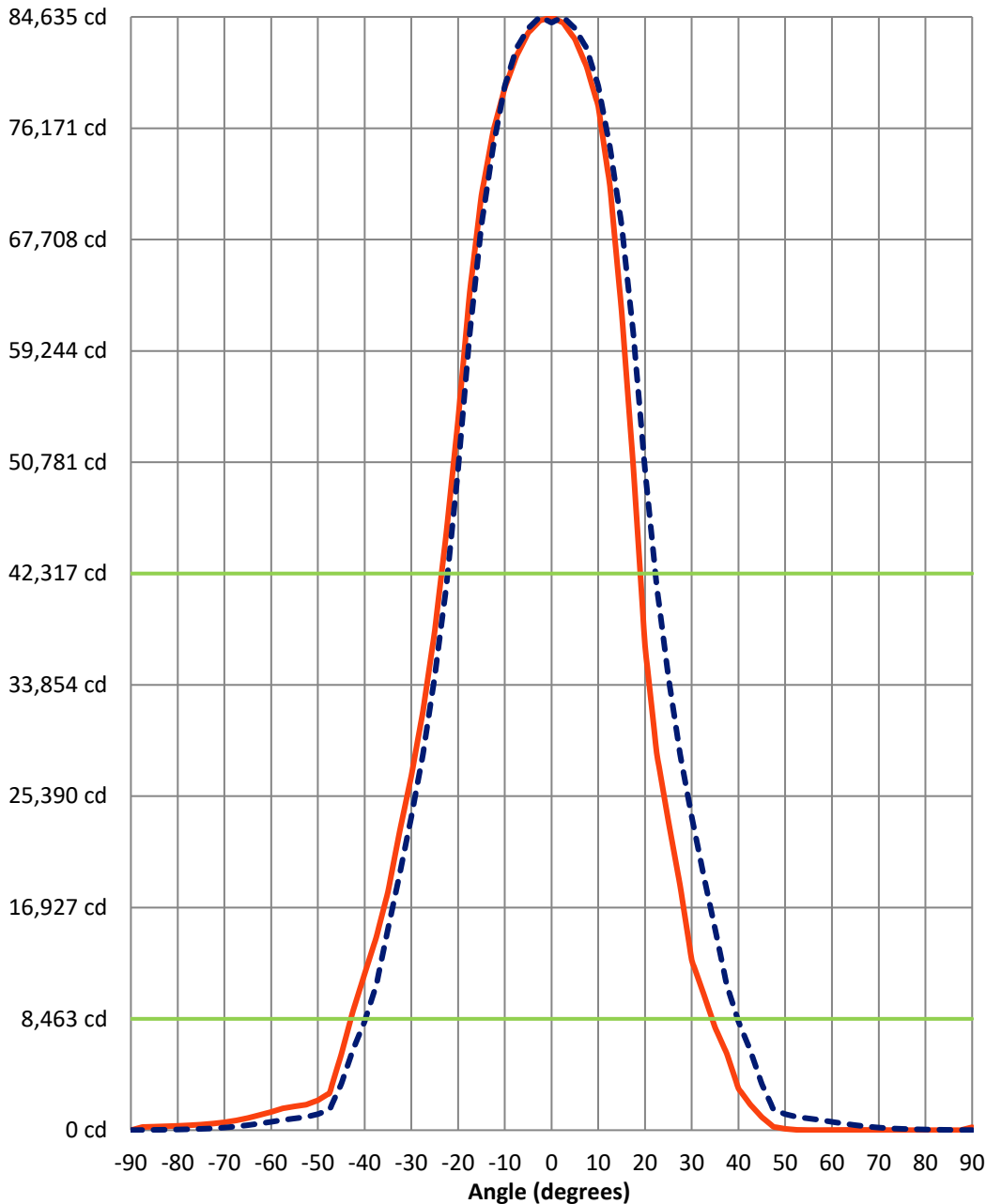
### Luminous Intensity Polar Plot



— 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: 30259.9  
 Efficiency: 54.9%

**Field:**  
 H Angle: 79.6°  
 V Angle: 77.3°  
 Lumens: 50638.2  
 Efficiency: 91.9%

**Spill:**  
 Lumens: 4470.6  
 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°	7.3	14.3	21.3	35.2	49.2	62.2	75.2	85.8	96.4	104.1	111.7
87.5°	7.3	6.8	6.2	6.2	6.2	6.3	6.3	6.1	5.8	5.7	5.6
85°	7.3	6.9	6.4	6.4	6.5	6.6	6.7	6.5	6.3	6.1	5.9
82.5°	7.3	7.1	6.5	6.6	6.7	6.8	7.0	6.9	6.7	6.5	6.2
80°	7.3	7.2	6.7	6.9	6.9	7.1	7.3	7.3	7.2	6.9	6.6
77.5°	7.3	7.4	6.9	7.1	7.1	7.5	7.7	7.7	7.7	7.4	6.9
75°	7.3	7.6	7.1	7.3	7.4	7.9	8.1	8.1	8.1	7.7	7.2
72.5°	7.3	7.7	7.3	7.5	7.9	8.4	8.5	8.5	8.4	8.0	7.5
70°	7.3	7.9	7.6	7.8	8.4	8.8	8.9	9.0	8.8	8.3	8.1
67.5°	7.3	8.0	7.8	8.2	8.9	9.3	9.5	9.5	9.2	9.0	8.9
65°	7.3	8.2	8.0	8.6	9.3	9.9	10.1	10.1	10.1	9.8	9.8
62.5°	7.3	8.3	8.3	9.0	9.8	10.4	10.7	11.0	11.1	10.9	11.5
60°	7.3	8.5	8.5	9.3	10.3	11.0	11.3	12.0	12.1	13.2	13.4
57.5°	7.3	8.7	9.0	9.7	11.0	11.5	12.6	13.2	15.0	16.0	17.0
55°	7.3	8.8	9.4	10.1	11.7	12.1	14.1	14.6	18.6	19.9	21.9
52.5°	7.3	9.0	9.9	10.5	12.5	12.9	15.7	18.3	22.6	25.8	27.4
50°	7.3	9.2	10.4	10.9	13.3	14.7	17.4	22.4	27.4	32.2	35.4
47.5°	7.3	9.3	10.9	11.3	14.2	16.6	19.5	26.6	33.6	38.9	44.4
45°	7.3	9.5	11.5	12.0	15.1	18.7	23.2	30.8	40.0	47.6	53.8
42.5°	7.3	9.7	12.1	12.8	16.1	20.8	26.8	35.9	46.5	56.6	68.1
40°	7.3	9.8	12.7	13.9	17.5	23.0	30.8	41.8	53.8	65.9	84.0
37.5°	7.3	10.0	13.3	15.2	19.3	25.4	35.0	47.8	62.2	77.1	100.8
35°	7.3	10.1	14.0	16.6	21.1	28.4	39.2	53.9	70.9	92.2	120.2
32.5°	7.3	10.3	14.6	18.0	22.8	31.8	43.9	60.3	79.8	107.7	142.2
30°	7.3	10.5	15.3	19.4	24.6	35.2	49.2	67.0	88.9	123.4	163.9
27.5°	7.3	10.6	16.0	20.8	27.1	38.5	54.4	74.3	99.1	139.3	185.2
25°	7.3	10.8	16.7	22.3	29.5	41.8	59.6	81.4	110.8	156.3	206.0
22.5°	7.3	10.9	17.4	23.7	32.0	45.1	64.5	88.1	122.0	171.0	228.0
20°	7.3	11.1	18.2	25.2	34.3	48.7	69.3	94.5	132.4	184.9	246.4
17.5°	7.3	11.2	18.9	26.6	36.6	52.2	74.1	100.6	142.1	198.0	263.7
15°	7.3	11.3	19.6	28.1	38.9	55.5	78.7	106.6	151.1	210.2	280.1
12.5°	7.3	11.5	20.2	29.5	41.0	58.7	83.1	112.4	160.2	221.3	295.6
10°	7.3	11.6	20.9	30.9	43.1	61.7	87.2	117.8	169.2	234.5	311.9
7.5°	7.3	11.7	21.6	32.2	45.1	64.5	90.9	122.9	177.5	247.4	331.4
5°	7.3	11.8	22.2	33.5	47.0	67.1	94.4	127.6	185.0	259.2	349.8
2.5°	7.3	11.9	22.8	34.7	48.8	69.6	97.6	131.9	191.7	269.9	366.7
0°	7.3	12.0	23.3	35.9	50.5	71.8	100.4	135.7	197.5	279.3	381.8
-2.5°	7.3	12.5	24.3	37.5	52.8	75.1	104.7	141.2	204.3	287.2	389.6
-5°	7.3	12.9	25.2	39.0	55.1	78.1	108.6	146.2	210.0	293.6	395.3
-7.5°	7.3	13.3	26.2	40.4	57.2	81.0	112.2	150.7	214.7	298.5	399.1
-10°	7.3	13.8	27.0	41.8	59.1	83.5	115.3	154.5	218.2	301.8	400.9
-12.5°	7.3	14.2	27.8	43.0	60.9	85.8	118.1	157.8	220.7	303.5	403.7
-15°	7.3	14.6	28.5	44.2	62.6	87.8	120.4	160.4	222.0	304.0	405.1
-17.5°	7.3	14.9	29.2	45.2	64.0	89.5	122.3	162.7	222.3	302.7	403.4
-20°	7.3	15.3	29.8	46.2	65.3	90.9	124.0	164.6	221.5	299.6	398.4



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-5S-VHE

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	7.3	15.6	30.4	47.0	66.5	92.0	125.7	165.9	219.5	294.6	390.5
-25°	7.3	15.9	30.9	47.8	67.4	93.3	126.9	166.6	216.4	287.8	383.5
-27.5°	7.3	16.2	31.3	48.4	68.1	94.5	127.6	166.7	212.2	283.2	378.4
-30°	7.3	16.5	31.7	48.9	68.7	95.5	127.9	166.2	210.3	279.5	370.4
-32.5°	7.3	16.7	32.0	49.4	69.9	96.1	127.6	165.8	210.2	274.0	359.3
-35°	7.3	16.9	32.2	49.7	70.9	96.4	127.7	165.2	209.0	266.4	345.2
-37.5°	7.3	17.1	32.3	49.9	71.6	96.7	127.7	164.2	206.8	257.0	332.4
-40°	7.3	17.2	32.4	49.9	72.2	97.4	127.2	162.5	203.5	251.3	320.0
-42.5°	7.3	17.3	32.4	50.1	72.7	97.9	126.5	160.1	200.3	246.5	305.5
-45°	7.3	17.4	32.3	50.3	73.1	98.1	125.4	157.8	196.7	240.4	290.3
-47.5°	7.3	17.5	32.2	50.5	73.3	98.1	123.9	155.9	192.4	233.1	281.8
-50°	7.3	17.5	32.0	50.5	73.2	97.9	123.3	153.5	186.8	226.4	271.7
-52.5°	7.3	17.5	31.7	50.4	72.8	97.4	122.6	150.5	182.0	218.5	259.6
-55°	7.3	17.4	31.4	50.2	72.3	96.5	121.6	147.2	177.3	209.5	247.4
-57.5°	7.3	17.4	30.9	49.8	71.4	95.3	120.3	145.6	172.0	202.3	234.1
-60°	7.3	17.3	30.4	49.3	70.4	93.9	118.6	143.3	166.7	195.3	221.4
-62.5°	7.3	17.2	30.0	48.6	69.4	92.2	116.4	140.5	163.2	187.2	211.2
-65°	7.3	17.0	29.6	47.9	68.2	90.2	113.8	137.2	159.4	180.9	200.4
-67.5°	7.3	16.9	29.0	46.9	66.9	88.0	111.0	133.3	155.1	174.9	192.1
-70°	7.3	16.7	28.4	45.9	65.3	85.7	107.8	129.0	149.9	168.5	184.5
-72.5°	7.3	16.4	27.7	44.9	63.6	83.0	104.0	124.4	144.2	161.3	176.6
-75°	7.3	16.2	26.9	43.8	61.7	80.1	99.9	118.9	138.2	153.7	168.1
-77.5°	7.3	15.9	26.1	42.6	59.9	76.9	95.3	113.0	131.0	145.7	159.4
-80°	7.3	15.6	25.2	41.4	58.0	74.1	90.5	106.8	123.4	136.4	149.2
-82.5°	7.3	15.3	24.3	40.0	56.0	71.3	86.8	101.0	115.5	127.0	138.3
-85°	7.3	15.0	23.3	38.5	53.8	68.4	83.1	96.1	109.3	118.8	128.3
-87.5°	7.3	14.7	22.3	36.9	51.6	65.4	79.2	91.0	102.9	111.5	120.1
-90°	7.3	6.7	6.0	6.0	6.0	6.0	6.0	5.7	5.3	5.3	5.3





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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°	116.4	121.0	125.4	129.7	135.0	140.3	146.0	151.6	157.6	163.6	169.3
87.5°	5.3	5.0	5.0	5.0	4.7	4.5	4.2	4.0	3.7	3.3	3.2
85°	5.6	5.3	5.4	5.3	5.1	4.9	4.6	4.3	4.0	3.7	3.7
82.5°	6.1	6.0	5.8	5.3	5.3	5.3	5.0	4.7	4.5	4.2	4.1
80°	6.5	6.7	6.2	5.6	5.5	5.3	5.1	4.8	4.7	4.7	4.5
77.5°	6.8	6.7	6.4	6.0	5.7	5.5	5.3	5.1	5.0	4.8	4.7
75°	7.0	6.8	6.6	6.2	5.9	5.9	5.8	5.6	5.5	5.5	5.5
72.5°	7.3	7.2	6.8	6.3	6.2	6.3	6.3	6.1	6.3	6.5	6.5
70°	7.9	7.6	7.2	6.8	6.6	6.8	7.1	7.5	8.0	8.1	8.8
67.5°	8.6	8.3	7.7	7.4	7.2	7.6	8.0	9.6	11.2	12.0	12.9
65°	9.5	9.1	8.5	8.4	8.0	9.6	11.0	12.7	15.9	17.4	17.3
62.5°	10.7	10.8	10.0	10.2	11.6	13.0	15.4	19.0	22.8	24.2	22.9
60°	13.6	13.2	13.2	14.2	15.6	17.4	21.1	25.6	29.9	32.1	28.7
57.5°	17.4	17.3	18.3	18.9	20.8	21.4	26.3	32.0	35.6	38.4	33.8
55°	22.8	23.0	24.9	25.5	27.0	26.9	31.2	36.4	40.2	41.5	36.7
52.5°	30.3	30.6	34.1	34.6	34.1	34.6	36.2	41.8	45.0	45.0	40.8
50°	38.4	42.7	44.9	46.3	43.7	45.3	43.9	50.1	54.9	54.4	55.9
47.5°	50.6	56.3	59.5	61.8	59.8	64.8	63.7	73.3	76.6	94.9	97.8
45°	64.9	74.0	78.3	83.4	89.2	95.2	110.6	110.7	153.9	170.9	215.7
42.5°	81.0	94.7	106.5	108.6	137.2	153.9	175.0	218.3	260.5	313.5	333.8
40°	102.4	117.6	141.6	168.6	200.4	236.7	276.0	328.6	384.0	411.4	414.9
37.5°	126.1	154.7	188.1	237.1	286.0	333.7	383.4	434.9	474.8	485.0	522.2
35°	151.5	193.4	255.8	312.1	368.9	434.8	479.1	526.5	550.5	592.5	664.1
32.5°	183.6	233.2	310.7	384.0	447.2	518.9	561.3	597.6	653.9	726.6	884.8
30°	217.0	278.1	356.5	441.1	518.9	579.0	627.3	672.8	761.0	936.9	1479.4
27.5°	244.8	316.6	399.0	493.4	582.2	637.0	691.7	771.2	928.7	1291.2	2320.2
25°	269.8	347.7	440.8	550.3	637.3	697.6	768.9	881.1	1128.2	2112.0	3430.7
22.5°	294.2	378.4	488.4	610.1	693.1	757.2	865.1	1067.7	1585.7	2968.8	4553.6
20°	319.4	417.6	540.2	665.7	746.6	810.0	949.2	1249.0	2309.2	3891.0	5544.4
17.5°	345.7	457.2	590.5	705.3	780.9	865.4	1037.9	1397.7	2913.3	4752.4	6603.2
15°	371.5	495.1	633.6	739.4	812.4	925.1	1156.9	1836.2	3552.0	5714.1	7735.2
12.5°	396.2	529.6	667.0	766.1	843.3	980.7	1254.7	2319.3	4320.0	6607.1	8719.3
10°	419.5	560.4	695.1	791.4	877.0	1040.1	1348.9	2792.3	4992.3	7187.5	9326.7
7.5°	443.4	586.1	718.8	815.5	909.5	1096.1	1452.6	3159.8	5494.3	7633.9	9796.0
5°	465.0	605.9	741.7	842.5	942.9	1145.8	1536.5	3440.7	5871.0	8002.7	10214.0
2.5°	484.0	621.5	761.1	868.0	975.6	1187.3	1560.6	3518.8	6047.9	8201.2	10625.2
0°	500.2	633.2	776.8	890.6	1005.0	1221.1	1567.0	3505.1	6091.7	8261.3	11025.5
-2.5°	509.4	648.3	804.9	923.0	1031.3	1248.4	1600.2	3510.3	6128.7	8682.4	11540.3
-5°	515.8	659.7	828.0	951.8	1054.5	1267.5	1618.6	3430.5	6078.7	8904.0	11690.8
-7.5°	519.4	666.8	845.0	975.7	1075.7	1281.4	1629.0	3300.7	6081.5	8914.1	11501.5
-10°	521.3	673.6	853.0	989.2	1093.8	1288.1	1624.0	3077.9	5840.0	8672.9	11189.7
-12.5°	527.6	679.9	855.8	999.1	1108.3	1289.7	1631.4	2859.8	5387.2	8233.6	10744.0
-15°	530.0	681.5	854.2	1007.3	1131.7	1305.4	1631.7	2521.1	4799.3	7676.2	10183.5
-17.5°	528.4	678.4	849.4	1019.2	1153.3	1306.7	1594.6	2076.7	4127.8	6883.2	9445.5
-20°	522.6	671.4	838.7	1025.1	1165.7	1317.6	1583.8	2004.5	3469.7	5891.8	8549.4



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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°	514.3	660.5	823.5	1012.2	1179.8	1341.3	1568.9	1908.6	2695.9	4759.2	7440.2
-25°	504.3	648.5	807.3	997.3	1186.4	1356.4	1522.9	1780.4	2241.5	3790.2	6067.2
-27.5°	493.9	631.4	789.9	972.5	1182.4	1349.2	1495.8	1709.5	2035.2	2713.6	4636.7
-30°	480.7	610.9	764.3	940.5	1147.4	1326.9	1479.3	1617.5	1840.0	2247.7	3402.1
-32.5°	464.5	586.8	735.8	904.0	1094.5	1300.3	1441.2	1561.3	1730.7	1980.6	2454.2
-35°	446.3	565.5	704.1	857.9	1031.9	1233.2	1383.8	1510.8	1625.3	1817.6	2120.5
-37.5°	427.7	539.2	663.4	809.2	974.9	1139.2	1316.9	1443.5	1558.9	1679.5	1895.3
-40°	405.9	506.6	622.9	757.7	898.2	1047.3	1212.1	1370.8	1484.8	1610.5	1739.8
-42.5°	382.1	475.6	579.6	696.5	822.6	956.6	1102.8	1261.8	1414.5	1534.8	1653.7
-45°	362.9	442.1	533.4	637.5	746.1	865.4	998.7	1137.9	1300.1	1455.7	1565.7
-47.5°	339.7	408.8	492.9	575.5	673.8	780.2	894.1	1025.9	1161.9	1315.2	1465.6
-50°	317.5	380.8	445.5	520.0	603.4	696.9	798.5	914.6	1040.3	1166.0	1302.4
-52.5°	302.3	350.8	405.9	464.6	537.5	617.7	707.7	806.2	916.4	1026.2	1144.5
-55°	285.7	327.6	367.2	417.0	474.2	543.8	621.9	708.0	792.1	892.3	992.8
-57.5°	269.4	304.2	336.0	374.2	422.0	473.1	544.1	615.7	688.8	766.4	851.3
-60°	252.9	281.4	309.2	340.1	374.9	420.2	469.6	529.5	589.1	651.1	726.2
-62.5°	236.4	259.6	283.5	310.1	339.8	370.3	410.6	454.3	496.1	552.6	612.4
-65°	223.2	239.2	258.9	282.3	306.2	334.2	362.3	389.6	426.3	469.1	512.5
-67.5°	208.9	223.9	238.4	254.9	276.5	299.6	322.8	347.3	372.2	401.6	433.3
-70°	198.6	209.2	222.0	235.7	249.8	266.5	287.2	307.5	328.5	353.1	378.3
-72.5°	188.8	198.5	208.2	217.7	230.5	244.3	258.0	271.6	289.0	310.0	330.1
-75°	178.7	187.7	196.5	205.2	214.8	225.2	235.9	248.2	261.8	276.2	290.2
-77.5°	168.5	176.4	184.5	192.4	201.2	210.3	219.7	229.2	239.8	251.1	261.9
-80°	157.5	164.9	172.1	179.2	187.1	195.2	203.6	212.0	221.5	231.2	240.2
-82.5°	145.4	151.9	158.6	165.2	172.6	179.9	187.3	194.7	203.0	211.5	219.2
-85°	133.7	138.8	144.8	150.6	157.3	164.0	170.6	177.1	184.8	192.4	199.1
-87.5°	125.1	130.0	134.8	139.6	145.3	151.0	156.7	162.4	169.1	175.8	181.6
-90°	5.0	4.7	4.7	4.7	4.4	4.0	4.0	4.0	3.7	3.3	3.0



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	174.9	178.6	182.2	185.2	188.2	192.2	196.2	201.5	206.8	212.2	217.5
87.5°	3.2	3.0	2.7	2.7	2.6	2.6	2.7	2.3	2.0	2.0	2.0
85°	3.7	3.7	3.7	3.4	3.2	3.2	3.2	3.2	3.2	3.0	2.7
82.5°	4.0	4.0	4.0	3.7	3.3	3.3	3.3	3.3	3.3	3.0	2.7
80°	4.2	4.1	4.0	3.9	3.8	3.6	3.3	3.1	2.8	2.7	2.7
77.5°	4.8	4.6	4.3	4.2	4.0	3.7	3.4	3.0	2.7	2.7	2.7
75°	5.4	5.2	5.0	4.8	4.4	4.3	4.2	4.0	3.8	3.8	3.9
72.5°	6.4	6.4	6.3	6.5	6.5	6.7	7.0	7.2	7.5	8.0	8.7
70°	9.6	10.2	10.5	10.7	10.7	10.5	10.5	10.7	11.0	11.4	11.6
67.5°	14.0	15.1	15.6	15.8	14.8	14.2	14.3	14.6	15.1	16.0	17.4
65°	18.3	18.0	17.5	17.1	17.3	17.4	17.3	17.5	18.4	19.8	21.4
62.5°	21.5	18.6	16.9	16.0	16.6	17.6	16.9	16.4	17.1	18.0	18.8
60°	24.5	19.2	15.4	14.1	13.9	14.3	13.2	12.2	12.5	12.7	13.2
57.5°	27.4	20.5	14.2	12.1	10.1	9.1	8.8	8.5	8.3	8.1	8.1
55°	30.1	22.3	13.9	12.4	11.0	10.7	9.8	9.3	9.0	8.8	9.0
52.5°	33.3	28.8	22.9	21.3	24.0	24.2	21.4	25.4	28.4	29.9	30.4
50°	54.6	48.9	58.7	57.7	69.2	77.3	74.4	83.5	96.9	105.4	108.9
47.5°	119.9	120.1	139.4	156.5	170.8	189.4	203.6	217.4	236.5	248.4	253.8
45°	227.4	246.8	266.9	296.4	324.6	359.0	400.3	432.9	563.3	693.3	811.5
42.5°	348.1	369.3	398.9	463.0	539.2	715.5	1030.8	1206.9	1426.5	1665.6	1757.4
40°	448.5	479.3	560.6	741.1	1180.7	1599.2	2059.0	2447.8	2791.9	2989.9	3155.4
37.5°	572.6	646.2	1016.2	1527.1	2073.6	2598.2	3071.7	3482.6	3839.2	4128.4	4414.7
35°	753.4	1242.1	1788.7	2453.1	3034.0	3520.0	4010.5	4481.3	4885.8	5317.8	5959.7
32.5°	1428.3	2067.0	2770.2	3365.6	3933.4	4546.6	5062.0	5815.3	6405.3	7192.9	8396.6
30°	2292.5	3094.1	3731.7	4327.3	5055.4	5880.5	6741.2	7893.4	9097.4	10353.3	11645.8
27.5°	3402.1	4211.8	4884.0	5678.4	6639.7	7737.7	9383.4	11007.5	12734.1	14304.7	15498.4
25°	4739.6	5597.1	6746.0	7898.7	9274.4	11150.9	12999.7	14989.6	16720.7	18262.0	19987.3
22.5°	5993.1	7398.7	8916.0	10656.1	12896.4	15012.7	17298.7	19312.4	21484.9	23681.7	25380.6
20°	7051.3	8882.5	11059.0	13567.5	16050.8	18448.1	21108.3	24318.2	27552.5	30442.0	32538.7
17.5°	8478.8	10797.9	13507.1	16488.8	19162.3	22133.1	25835.6	30006.2	34538.2	38548.1	41727.6
15°	10038.6	12746.6	15809.9	18934.2	22316.5	26297.4	31058.3	36384.4	41928.0	47550.8	52789.2
12.5°	11098.9	14271.7	17616.8	21331.7	25550.4	30887.8	36668.7	42573.1	48908.2	55904.3	61980.9
10°	12005.4	15525.2	19561.0	23882.1	28729.6	34467.2	40442.0	47613.7	55521.3	62410.8	68919.4
7.5°	12901.9	17038.0	21253.7	25752.9	31078.8	37310.6	44381.8	52094.7	60142.2	67630.6	72953.1
5°	13962.9	18253.9	22469.3	27222.0	32799.3	39281.6	46740.1	55597.1	64076.0	70959.3	75759.9
2.5°	14840.1	18983.3	23299.7	28003.6	33735.7	40503.7	48598.8	58441.4	67141.6	73577.8	77921.8
0°	15286.8	19450.4	23822.1	28602.3	34478.5	41384.3	50216.2	60556.0	68778.7	74724.4	79376.5
-2.5°	15341.3	19301.9	23593.0	28307.7	34050.8	41093.5	50147.8	60609.6	69204.8	75384.5	79974.4
-5°	15182.7	19106.3	23389.2	28106.7	33772.1	41108.0	50199.1	60259.0	68564.4	74965.5	79288.1
-7.5°	14800.4	18747.0	23037.9	27685.9	33262.2	40377.0	48856.0	57974.6	66517.5	73433.9	77421.4
-10°	14240.2	18118.0	22342.7	26792.1	32051.0	38629.0	46211.9	54560.1	63192.8	69805.8	74404.3
-12.5°	13531.7	17201.8	21240.3	25446.8	30411.9	36540.4	43299.8	50290.2	57526.7	65065.8	69855.5
-15°	12718.3	16071.9	19852.3	24081.4	28990.2	34097.6	39466.8	45162.0	51777.3	57944.1	63519.4
-17.5°	11946.5	14834.8	18362.1	22482.5	26662.6	31100.4	35701.9	40351.7	45656.6	50497.4	54827.9
-20°	10976.6	13435.9	16685.8	20347.1	24231.3	28076.6	32029.0	35796.1	39647.3	43587.5	47026.8



REPORT NUMBER: P731325 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-5S-VHE

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	9833.4	12225.1	14936.6	18124.5	21853.5	25275.8	28441.4	31385.3	34472.2	37198.6	40029.0
-25°	8588.1	10887.6	13379.4	16285.5	19148.5	22251.1	24878.5	27382.1	29776.4	31917.2	34118.2
-27.5°	7058.7	9486.4	11942.6	14268.5	16631.0	18858.7	21308.4	23618.2	25615.1	27381.2	29125.6
-30°	5335.8	7912.6	10236.0	12231.2	14104.2	15962.2	17837.6	19775.9	21666.2	23274.4	24703.2
-32.5°	3936.9	6086.4	8234.0	10189.2	11828.5	13364.2	14822.6	16343.4	17665.5	19023.0	20344.3
-35°	2604.7	4124.0	5906.8	7894.5	9601.8	10893.7	12216.1	13428.6	14425.2	15477.7	16475.2
-37.5°	2192.1	2596.4	3789.0	5402.8	6984.1	8469.6	9788.4	10842.5	11759.8	12600.5	13461.9
-40°	1933.7	2164.3	2503.6	3089.9	4419.8	5726.6	7085.3	8205.7	9183.0	9988.8	10782.0
-42.5°	1764.1	1922.3	2091.4	2322.3	2549.8	3189.9	4305.2	5272.3	6188.9	7096.8	7914.0
-45°	1676.2	1765.0	1861.7	1987.2	2084.6	2258.1	2451.8	2633.8	3363.3	4151.6	4811.4
-47.5°	1570.8	1665.5	1737.8	1796.9	1844.2	1920.4	2001.0	2106.2	2275.1	2474.2	2626.2
-50°	1436.0	1551.0	1623.1	1682.4	1716.4	1745.9	1774.9	1840.9	1932.4	2040.9	2127.1
-52.5°	1261.8	1375.6	1477.7	1554.8	1592.4	1629.0	1665.5	1710.8	1762.9	1825.6	1870.5
-55°	1097.7	1192.7	1281.0	1352.9	1417.8	1476.8	1533.6	1581.6	1637.8	1697.4	1739.3
-57.5°	941.8	1018.5	1091.0	1153.3	1209.4	1259.1	1317.2	1380.2	1452.0	1520.4	1568.6
-60°	796.2	857.2	917.5	968.1	1013.7	1054.4	1108.1	1161.0	1224.0	1280.0	1320.8
-62.5°	665.9	719.2	763.8	801.9	836.4	870.4	915.6	959.8	1011.6	1056.4	1090.3
-65°	553.3	597.7	629.1	657.4	682.4	711.4	746.3	781.8	822.5	857.3	885.1
-67.5°	466.4	496.5	516.3	533.7	554.5	577.6	604.0	632.3	663.9	690.2	711.5
-70°	400.8	419.6	431.5	444.6	459.7	475.7	493.6	514.9	538.9	559.4	577.1
-72.5°	348.8	363.2	373.1	383.2	392.3	403.2	415.2	431.1	448.9	464.9	479.8
-75°	303.7	314.0	323.3	332.0	339.9	349.2	358.8	372.2	386.8	400.0	412.5
-77.5°	273.5	281.4	287.6	293.4	299.1	306.8	314.8	325.6	337.0	347.9	358.5
-80°	249.2	255.3	260.5	264.8	268.8	275.3	282.1	291.0	300.0	309.4	318.8
-82.5°	226.7	232.1	237.1	241.2	245.0	250.9	256.9	264.9	272.8	280.7	288.5
-85°	205.7	210.6	215.3	219.2	223.0	227.8	232.5	239.4	246.3	253.4	260.5
-87.5°	187.4	192.0	196.6	199.7	202.7	207.0	211.2	217.1	222.9	229.0	235.1
-90°	2.7	2.7	2.7	2.4	2.0	2.0	2.0	1.7	1.3	1.3	1.3



REPORT NUMBER: P731325 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-5S-VHE

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	220.2	222.8	224.2	225.5	224.2	222.8	220.2	217.5	212.2	206.8	201.5
87.5°	1.6	1.3	1.3	1.3	1.3	1.3	1.6	2.0	2.0	2.0	2.3
85°	2.3	2.0	2.3	2.7	2.3	2.0	2.3	2.7	3.0	3.2	3.2
82.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.0	3.3	3.3
80°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.8	3.1
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.0
75°	3.6	3.3	3.3	3.3	3.3	3.3	3.6	3.9	3.8	3.8	4.0
72.5°	9.0	9.1	9.6	10.0	9.6	9.1	9.0	8.7	8.0	7.5	7.2
70°	11.8	11.9	12.0	12.0	12.0	11.9	11.8	11.6	11.4	11.0	10.7
67.5°	18.1	18.4	19.2	20.0	19.2	18.4	18.1	17.4	16.0	15.1	14.6
65°	22.6	23.6	23.9	23.9	23.9	23.6	22.6	21.4	19.8	18.4	17.5
62.5°	19.6	20.5	20.6	20.6	20.6	20.5	19.6	18.8	18.0	17.1	16.4
60°	13.7	14.1	14.3	14.6	14.3	14.1	13.7	13.2	12.7	12.5	12.2
57.5°	8.3	8.7	8.7	8.6	8.7	8.7	8.3	8.1	8.1	8.3	8.5
55°	9.1	9.2	9.0	8.6	9.0	9.2	9.1	9.0	8.8	9.0	9.3
52.5°	29.6	28.1	26.6	25.3	26.6	28.1	29.6	30.4	29.9	28.4	25.4
50°	107.7	105.9	103.3	100.4	103.3	105.9	107.7	108.9	105.4	96.9	83.5
47.5°	258.6	259.2	256.7	252.1	256.7	259.2	258.6	253.8	248.4	236.5	217.4
45°	914.5	964.2	991.0	1009.6	991.0	964.2	914.5	811.5	693.3	563.3	432.9
42.5°	1837.6	1907.4	1960.4	1971.4	1960.4	1907.4	1837.6	1757.4	1665.6	1426.5	1206.9
40°	3351.6	3363.3	3168.8	2875.3	3168.8	3363.3	3351.6	3155.4	2989.9	2791.9	2447.8
37.5°	4755.8	5246.6	5816.7	6107.7	5816.7	5246.6	4755.8	4414.7	4128.4	3839.2	3482.6
35°	6825.8	7564.0	7803.4	7809.7	7803.4	7564.0	6825.8	5959.7	5317.8	4885.8	4481.3
32.5°	9482.2	10082.3	10402.8	10315.8	10402.8	10082.3	9482.2	8396.6	7192.9	6405.3	5815.3
30°	12399.1	12921.3	12925.4	12750.8	12925.4	12921.3	12399.1	11645.8	10353.3	9097.4	7893.4
27.5°	16733.9	17837.3	18613.9	18823.2	18613.9	17837.3	16733.9	15498.4	14304.7	12734.1	11007.5
25°	21542.0	22754.6	23500.0	23771.6	23500.0	22754.6	21542.0	19987.3	18262.0	16720.7	14989.6
22.5°	26961.8	28140.7	28678.7	28960.1	28678.7	28140.7	26961.8	25380.6	23681.7	21484.9	19312.4
20°	34537.5	36213.7	36845.6	37115.6	36845.6	36213.7	34537.5	32538.7	30442.0	27552.5	24318.2
17.5°	45031.2	48341.7	50411.6	51474.6	50411.6	48341.7	45031.2	41727.6	38548.1	34538.2	30006.2
15°	56666.0	60026.8	62237.0	63562.3	62237.0	60026.8	56666.0	52789.2	47550.8	41928.0	36384.4
12.5°	66647.2	69643.2	71778.0	73047.1	71778.0	69643.2	66647.2	61980.9	55904.3	48908.2	42573.1
10°	73050.5	75619.8	77834.6	78916.3	77834.6	75619.8	73050.5	68919.4	62410.8	55521.3	47613.7
7.5°	76669.5	79657.0	80857.6	81597.3	80857.6	79657.0	76669.5	72953.1	67630.6	60142.2	52094.7
5°	79474.3	81835.1	82943.4	83484.2	82943.4	81835.1	79474.3	75759.9	70959.3	64076.0	55597.1
2.5°	81346.6	83396.1	84179.9	84616.2	84179.9	83396.1	81346.6	77921.8	73577.8	67141.6	58441.4
0°	82245.1	83756.3	84634.9	84206.5	84634.9	83756.3	82245.1	79376.5	74724.4	68778.7	60556.0
-2.5°	82251.4	83687.8	84340.9	84023.0	84340.9	83687.8	82251.4	79974.4	75384.5	69204.8	60609.6
-5°	81547.7	82619.7	83415.2	83160.3	83415.2	82619.7	81547.7	79288.1	74965.5	68564.4	60259.0
-7.5°	79650.0	81074.8	81657.4	81685.8	81657.4	81074.8	79650.0	77421.4	73433.9	66517.5	57974.6
-10°	77039.4	78619.0	79239.4	79302.7	79239.4	78619.0	77039.4	74404.3	69805.8	63192.8	54560.1
-12.5°	73159.4	75012.5	75905.2	76064.3	75905.2	75012.5	73159.4	69855.5	65065.8	57526.7	50290.2
-15°	67136.3	69633.8	71043.5	71538.2	71043.5	69633.8	67136.3	63519.4	57944.1	51777.3	45162.0
-17.5°	58948.0	61932.1	63689.9	64309.9	63689.9	61932.1	58948.0	54827.9	50497.4	45656.6	40351.7
-20°	50407.0	52619.3	53974.3	54532.8	53974.3	52619.3	50407.0	47026.8	43587.5	39647.3	35796.1



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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°	42638.0	44421.6	45428.5	45875.8	45428.5	44421.6	42638.0	40029.0	37198.6	34472.2	31385.3
-25°	35899.9	37402.2	37918.5	38209.7	37918.5	37402.2	35899.9	34118.2	31917.2	29776.4	27382.1
-27.5°	30394.5	31586.2	31864.3	32121.3	31864.3	31586.2	30394.5	29125.6	27381.2	25615.1	23618.2
-30°	25755.5	26792.5	26934.3	27218.8	26934.3	26792.5	25755.5	24703.2	23274.4	21666.2	19775.9
-32.5°	21417.1	22340.5	22694.3	22748.7	22694.3	22340.5	21417.1	20344.3	19023.0	17665.5	16343.4
-35°	17262.7	17871.3	18112.1	18126.8	18112.1	17871.3	17262.7	16475.2	15477.7	14425.2	13428.6
-37.5°	13996.4	14384.4	14663.3	14586.5	14663.3	14384.4	13996.4	13461.9	12600.5	11759.8	10842.5
-40°	11226.4	11616.8	11871.7	11809.6	11871.7	11616.8	11226.4	10782.0	9988.8	9183.0	8205.7
-42.5°	8364.7	8794.0	9035.0	8968.3	9035.0	8794.0	8364.7	7914.0	7096.8	6188.9	5272.3
-45°	5187.6	5566.0	5743.6	5635.5	5743.6	5566.0	5187.6	4811.4	4151.6	3363.3	2633.8
-47.5°	2706.4	2792.5	2820.0	2781.5	2820.0	2792.5	2706.4	2626.2	2474.2	2275.1	2106.2
-50°	2194.3	2248.3	2271.5	2264.7	2271.5	2248.3	2194.3	2127.1	2040.9	1932.4	1840.9
-52.5°	1905.8	1930.8	1939.0	1934.1	1939.0	1930.8	1905.8	1870.5	1825.6	1762.9	1710.8
-55°	1774.8	1799.5	1808.1	1805.1	1808.1	1799.5	1774.8	1739.3	1697.4	1637.8	1581.6
-57.5°	1608.5	1638.8	1657.7	1667.4	1657.7	1638.8	1608.5	1568.6	1520.4	1452.0	1380.2
-60°	1353.7	1378.0	1385.0	1381.4	1385.0	1378.0	1353.7	1320.8	1280.0	1224.0	1161.0
-62.5°	1116.9	1136.9	1151.8	1161.9	1151.8	1136.9	1116.9	1090.3	1056.4	1011.6	959.8
-65°	905.6	920.0	923.0	920.5	923.0	920.0	905.6	885.1	857.3	822.5	781.8
-67.5°	726.4	737.1	738.6	736.3	738.6	737.1	726.4	711.5	690.2	663.9	632.3
-70°	589.0	598.0	599.2	597.9	599.2	598.0	589.0	577.1	559.4	538.9	514.9
-72.5°	488.5	495.1	500.2	504.2	500.2	495.1	488.5	479.8	464.9	448.9	431.1
-75°	418.7	423.5	424.7	425.0	424.7	423.5	418.7	412.5	400.0	386.8	372.2
-77.5°	364.1	368.8	372.2	375.1	372.2	368.8	364.1	358.5	347.9	337.0	325.6
-80°	323.0	326.6	329.4	331.9	329.4	326.6	323.0	318.8	309.4	300.0	291.0
-82.5°	292.5	296.2	298.5	300.6	298.5	296.2	292.5	288.5	280.7	272.8	264.9
-85°	263.6	266.5	268.6	270.7	268.6	266.5	263.6	260.5	253.4	246.3	239.4
-87.5°	237.9	240.7	242.1	243.4	242.1	240.7	237.9	235.1	229.0	222.9	217.1
-90°	1.0	0.7	0.7	0.7	0.7	0.7	1.0	1.3	1.3	1.3	1.7



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	196.2	192.2	188.2	185.2	182.2	178.6	174.9	169.3	163.6	157.6	151.6
87.5°	2.7	2.6	2.6	2.7	2.7	3.0	3.2	3.2	3.3	3.7	4.0
85°	3.2	3.2	3.2	3.4	3.7	3.7	3.7	3.7	3.7	4.0	4.3
82.5°	3.3	3.3	3.3	3.7	4.0	4.0	4.0	4.1	4.2	4.5	4.7
80°	3.3	3.6	3.8	3.9	4.0	4.1	4.2	4.5	4.7	4.7	4.8
77.5°	3.4	3.7	4.0	4.2	4.3	4.6	4.8	4.7	4.8	5.0	5.1
75°	4.2	4.3	4.4	4.8	5.0	5.2	5.4	5.5	5.5	5.5	5.6
72.5°	7.0	6.7	6.5	6.5	6.3	6.4	6.4	6.5	6.5	6.3	6.1
70°	10.5	10.5	10.7	10.7	10.5	10.2	9.6	8.8	8.1	8.0	7.5
67.5°	14.3	14.2	14.8	15.8	15.6	15.1	14.0	12.9	12.0	11.2	9.6
65°	17.3	17.4	17.3	17.1	17.5	18.0	18.3	17.3	17.4	15.9	12.7
62.5°	16.9	17.6	16.6	16.0	16.9	18.6	21.5	22.9	24.2	22.8	19.0
60°	13.2	14.3	13.9	14.1	15.4	19.2	24.5	28.7	32.1	29.9	25.6
57.5°	8.8	9.1	10.1	12.1	14.2	20.5	27.4	33.8	38.4	35.6	32.0
55°	9.8	10.7	11.0	12.4	13.9	22.3	30.1	36.7	41.5	40.2	36.4
52.5°	21.4	24.2	24.0	21.3	22.9	28.8	33.3	40.8	45.0	45.0	41.8
50°	74.4	77.3	69.2	57.7	58.7	48.9	54.6	55.9	54.4	54.9	50.1
47.5°	203.6	189.4	170.8	156.5	139.4	120.1	119.9	97.8	94.9	76.6	73.3
45°	400.3	359.0	324.6	296.4	266.9	246.8	227.4	215.7	170.9	153.9	110.7
42.5°	1030.8	715.5	539.2	463.0	398.9	369.3	348.1	333.8	313.5	260.5	218.3
40°	2059.0	1599.2	1180.7	741.1	560.6	479.3	448.5	414.9	411.4	384.0	328.6
37.5°	3071.7	2598.2	2073.6	1527.1	1016.2	646.2	572.6	522.2	485.0	474.8	434.9
35°	4010.5	3520.0	3034.0	2453.1	1788.7	1242.1	753.4	664.1	592.5	550.5	526.5
32.5°	5062.0	4546.6	3933.4	3365.6	2770.2	2067.0	1428.3	884.8	726.6	653.9	597.6
30°	6741.2	5880.5	5055.4	4327.3	3731.7	3094.1	2292.5	1479.4	936.9	761.0	672.8
27.5°	9383.4	7737.7	6639.7	5678.4	4884.0	4211.8	3402.1	2320.2	1291.2	928.7	771.2
25°	12999.7	11150.9	9274.4	7898.7	6746.0	5597.1	4739.6	3430.7	2112.0	1128.2	881.1
22.5°	17298.7	15012.7	12896.4	10656.1	8916.0	7398.7	5993.1	4553.6	2968.8	1585.7	1067.7
20°	21108.3	18448.1	16050.8	13567.5	11059.0	8882.5	7051.3	5544.4	3891.0	2309.2	1249.0
17.5°	25835.6	22133.1	19162.3	16488.8	13507.1	10797.9	8478.8	6603.2	4752.4	2913.3	1397.7
15°	31058.3	26297.4	22316.5	18934.2	15809.9	12746.6	10038.6	7735.2	5714.1	3552.0	1836.2
12.5°	36668.7	30887.8	25550.4	21331.7	17616.8	14271.7	11098.9	8719.3	6607.1	4320.0	2319.3
10°	40442.0	34467.2	28729.6	23882.1	19561.0	15525.2	12005.4	9326.7	7187.5	4992.3	2792.3
7.5°	44381.8	37310.6	31078.8	25752.9	21253.7	17038.0	12901.9	9796.0	7633.9	5494.3	3159.8
5°	46740.1	39281.6	32799.3	27222.0	22469.3	18253.9	13962.9	10214.0	8002.7	5871.0	3440.7
2.5°	48598.8	40503.7	33735.7	28003.6	23299.7	18983.3	14840.1	10625.2	8201.2	6047.9	3518.8
0°	50216.2	41384.3	34478.5	28602.3	23822.1	19450.4	15286.8	11025.5	8261.3	6091.7	3505.1
-2.5°	50147.8	41093.5	34050.8	28307.7	23593.0	19301.9	15341.3	11540.3	8682.4	6128.7	3510.3
-5°	50199.1	41108.0	33772.1	28106.7	23389.2	19106.3	15182.7	11690.8	8904.0	6078.7	3430.5
-7.5°	48856.0	40377.0	33262.2	27685.9	23037.9	18747.0	14800.4	11501.5	8914.1	6081.5	3300.7
-10°	46211.9	38629.0	32051.0	26792.1	22342.7	18118.0	14240.2	11189.7	8672.9	5840.0	3077.9
-12.5°	43299.8	36540.4	30411.9	25446.8	21240.3	17201.8	13531.7	10744.0	8233.6	5387.2	2859.8
-15°	39466.8	34097.6	28990.2	24081.4	19852.3	16071.9	12718.3	10183.5	7676.2	4799.3	2521.1
-17.5°	35701.9	31100.4	26662.6	22482.5	18362.1	14834.8	11946.5	9445.5	6883.2	4127.8	2076.7
-20°	32029.0	28076.6	24231.3	20347.1	16685.8	13435.9	10976.6	8549.4	5891.8	3469.7	2004.5



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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°	28441.4	25275.8	21853.5	18124.5	14936.6	12225.1	9833.4	7440.2	4759.2	2695.9	1908.6
-25°	24878.5	22251.1	19148.5	16285.5	13379.4	10887.6	8588.1	6067.2	3790.2	2241.5	1780.4
-27.5°	21308.4	18858.7	16631.0	14268.5	11942.6	9486.4	7058.7	4636.7	2713.6	2035.2	1709.5
-30°	17837.6	15962.2	14104.2	12231.2	10236.0	7912.6	5335.8	3402.1	2247.7	1840.0	1617.5
-32.5°	14822.6	13364.2	11828.5	10189.2	8234.0	6086.4	3936.9	2454.2	1980.6	1730.7	1561.3
-35°	12216.1	10893.7	9601.8	7894.5	5906.8	4124.0	2604.7	2120.5	1817.6	1625.3	1510.8
-37.5°	9788.4	8469.6	6984.1	5402.8	3789.0	2596.4	2192.1	1895.3	1679.5	1558.9	1443.5
-40°	7085.3	5726.6	4419.8	3089.9	2503.6	2164.3	1933.7	1739.8	1610.5	1484.8	1370.8
-42.5°	4305.2	3189.9	2549.8	2322.3	2091.4	1922.3	1764.1	1653.7	1534.8	1414.5	1261.8
-45°	2451.8	2258.1	2084.6	1987.2	1861.7	1765.0	1676.2	1565.7	1455.7	1300.1	1137.9
-47.5°	2001.0	1920.4	1844.2	1796.9	1737.8	1665.5	1570.8	1465.6	1315.2	1161.9	1025.9
-50°	1774.9	1745.9	1716.4	1682.4	1623.1	1551.0	1436.0	1302.4	1166.0	1040.3	914.6
-52.5°	1665.5	1629.0	1592.4	1554.8	1477.7	1375.6	1261.8	1144.5	1026.2	916.4	806.2
-55°	1533.6	1476.8	1417.8	1352.9	1281.0	1192.7	1097.7	992.8	892.3	792.1	708.0
-57.5°	1317.2	1259.1	1209.4	1153.3	1091.0	1018.5	941.8	851.3	766.4	688.8	615.7
-60°	1108.1	1054.4	1013.7	968.1	917.5	857.2	796.2	726.2	651.1	589.1	529.5
-62.5°	915.6	870.4	836.4	801.9	763.8	719.2	665.9	612.4	552.6	496.1	454.3
-65°	746.3	711.4	682.4	657.4	629.1	597.7	553.3	512.5	469.1	426.3	389.6
-67.5°	604.0	577.6	554.5	533.7	516.3	496.5	466.4	433.3	401.6	372.2	347.3
-70°	493.6	475.7	459.7	444.6	431.5	419.6	400.8	378.3	353.1	328.5	307.5
-72.5°	415.2	403.2	392.3	383.2	373.1	363.2	348.8	330.1	310.0	289.0	271.6
-75°	358.8	349.2	339.9	332.0	323.3	314.0	303.7	290.2	276.2	261.8	248.2
-77.5°	314.8	306.8	299.1	293.4	287.6	281.4	273.5	261.9	251.1	239.8	229.2
-80°	282.1	275.3	268.8	264.8	260.5	255.3	249.2	240.2	231.2	221.5	212.0
-82.5°	256.9	250.9	245.0	241.2	237.1	232.1	226.7	219.2	211.5	203.0	194.7
-85°	232.5	227.8	223.0	219.2	215.3	210.6	205.7	199.1	192.4	184.8	177.1
-87.5°	211.2	207.0	202.7	199.7	196.6	192.0	187.4	181.6	175.8	169.1	162.4
-90°	2.0	2.0	2.0	2.4	2.7	2.7	2.7	3.0	3.3	3.7	4.0





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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°	146.0	140.3	135.0	129.7	125.4	121.0	116.4	111.7	104.1	96.4	85.8
87.5°	4.2	4.5	4.7	5.0	5.0	5.0	5.3	5.6	5.7	5.8	6.1
85°	4.6	4.9	5.1	5.3	5.4	5.3	5.6	5.9	6.1	6.3	6.5
82.5°	5.0	5.3	5.3	5.3	5.8	6.0	6.1	6.2	6.5	6.7	6.9
80°	5.1	5.3	5.5	5.6	6.2	6.7	6.5	6.6	6.9	7.2	7.3
77.5°	5.3	5.5	5.7	6.0	6.4	6.7	6.8	6.9	7.4	7.7	7.7
75°	5.8	5.9	5.9	6.2	6.6	6.8	7.0	7.2	7.7	8.1	8.1
72.5°	6.3	6.3	6.2	6.3	6.8	7.2	7.3	7.5	8.0	8.4	8.5
70°	7.1	6.8	6.6	6.8	7.2	7.6	7.9	8.1	8.3	8.8	9.0
67.5°	8.0	7.6	7.2	7.4	7.7	8.3	8.6	8.9	9.0	9.2	9.5
65°	11.0	9.6	8.0	8.4	8.5	9.1	9.5	9.8	9.8	10.1	10.1
62.5°	15.4	13.0	11.6	10.2	10.0	10.8	10.7	11.5	10.9	11.1	11.0
60°	21.1	17.4	15.6	14.2	13.2	13.2	13.6	13.4	13.2	12.1	12.0
57.5°	26.3	21.4	20.8	18.9	18.3	17.3	17.4	17.0	16.0	15.0	13.2
55°	31.2	26.9	27.0	25.5	24.9	23.0	22.8	21.9	19.9	18.6	14.6
52.5°	36.2	34.6	34.1	34.6	34.1	30.6	30.3	27.4	25.8	22.6	18.3
50°	43.9	45.3	43.7	46.3	44.9	42.7	38.4	35.4	32.2	27.4	22.4
47.5°	63.7	64.8	59.8	61.8	59.5	56.3	50.6	44.4	38.9	33.6	26.6
45°	110.6	95.2	89.2	83.4	78.3	74.0	64.9	53.8	47.6	40.0	30.8
42.5°	175.0	153.9	137.2	108.6	106.5	94.7	81.0	68.1	56.6	46.5	35.9
40°	276.0	236.7	200.4	168.6	141.6	117.6	102.4	84.0	65.9	53.8	41.8
37.5°	383.4	333.7	286.0	237.1	188.1	154.7	126.1	100.8	77.1	62.2	47.8
35°	479.1	434.8	368.9	312.1	255.8	193.4	151.5	120.2	92.2	70.9	53.9
32.5°	561.3	518.9	447.2	384.0	310.7	233.2	183.6	142.2	107.7	79.8	60.3
30°	627.3	579.0	518.9	441.1	356.5	278.1	217.0	163.9	123.4	88.9	67.0
27.5°	691.7	637.0	582.2	493.4	399.0	316.6	244.8	185.2	139.3	99.1	74.3
25°	768.9	697.6	637.3	550.3	440.8	347.7	269.8	206.0	156.3	110.8	81.4
22.5°	865.1	757.2	693.1	610.1	488.4	378.4	294.2	228.0	171.0	122.0	88.1
20°	949.2	810.0	746.6	665.7	540.2	417.6	319.4	246.4	184.9	132.4	94.5
17.5°	1037.9	865.4	780.9	705.3	590.5	457.2	345.7	263.7	198.0	142.1	100.6
15°	1156.9	925.1	812.4	739.4	633.6	495.1	371.5	280.1	210.2	151.1	106.6
12.5°	1254.7	980.7	843.3	766.1	667.0	529.6	396.2	295.6	221.3	160.2	112.4
10°	1348.9	1040.1	877.0	791.4	695.1	560.4	419.5	311.9	234.5	169.2	117.8
7.5°	1452.6	1096.1	909.5	815.5	718.8	586.1	443.4	331.4	247.4	177.5	122.9
5°	1536.5	1145.8	942.9	842.5	741.7	605.9	465.0	349.8	259.2	185.0	127.6
2.5°	1560.6	1187.3	975.6	868.0	761.1	621.5	484.0	366.7	269.9	191.7	131.9
0°	1567.0	1221.1	1005.0	890.6	776.8	633.2	500.2	381.8	279.3	197.5	135.7
-2.5°	1600.2	1248.4	1031.3	923.0	804.9	648.3	509.4	389.6	287.2	204.3	141.2
-5°	1618.6	1267.5	1054.5	951.8	828.0	659.7	515.8	395.3	293.6	210.0	146.2
-7.5°	1629.0	1281.4	1075.7	975.7	845.0	666.8	519.4	399.1	298.5	214.7	150.7
-10°	1624.0	1288.1	1093.8	989.2	853.0	673.6	521.3	400.9	301.8	218.2	154.5
-12.5°	1631.4	1289.7	1108.3	999.1	855.8	679.9	527.6	403.7	303.5	220.7	157.8
-15°	1631.7	1305.4	1131.7	1007.3	854.2	681.5	530.0	405.1	304.0	222.0	160.4
-17.5°	1594.6	1306.7	1153.3	1019.2	849.4	678.4	528.4	403.4	302.7	222.3	162.7
-20°	1583.8	1317.6	1165.7	1025.1	838.7	671.4	522.6	398.4	299.6	221.5	164.6



REPORT NUMBER: P731325 (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°	1568.9	1341.3	1179.8	1012.2	823.5	660.5	514.3	390.5	294.6	219.5	165.9
-25°	1522.9	1356.4	1186.4	997.3	807.3	648.5	504.3	383.5	287.8	216.4	166.6
-27.5°	1495.8	1349.2	1182.4	972.5	789.9	631.4	493.9	378.4	283.2	212.2	166.7
-30°	1479.3	1326.9	1147.4	940.5	764.3	610.9	480.7	370.4	279.5	210.3	166.2
-32.5°	1441.2	1300.3	1094.5	904.0	735.8	586.8	464.5	359.3	274.0	210.2	165.8
-35°	1383.8	1233.2	1031.9	857.9	704.1	565.5	446.3	345.2	266.4	209.0	165.2
-37.5°	1316.9	1139.2	974.9	809.2	663.4	539.2	427.7	332.4	257.0	206.8	164.2
-40°	1212.1	1047.3	898.2	757.7	622.9	506.6	405.9	320.0	251.3	203.5	162.5
-42.5°	1102.8	956.6	822.6	696.5	579.6	475.6	382.1	305.5	246.5	200.3	160.1
-45°	998.7	865.4	746.1	637.5	533.4	442.1	362.9	290.3	240.4	196.7	157.8
-47.5°	894.1	780.2	673.8	575.5	492.9	408.8	339.7	281.8	233.1	192.4	155.9
-50°	798.5	696.9	603.4	520.0	445.5	380.8	317.5	271.7	226.4	186.8	153.5
-52.5°	707.7	617.7	537.5	464.6	405.9	350.8	302.3	259.6	218.5	182.0	150.5
-55°	621.9	543.8	474.2	417.0	367.2	327.6	285.7	247.4	209.5	177.3	147.2
-57.5°	544.1	473.1	422.0	374.2	336.0	304.2	269.4	234.1	202.3	172.0	145.6
-60°	469.6	420.2	374.9	340.1	309.2	281.4	252.9	221.4	195.3	166.7	143.3
-62.5°	410.6	370.3	339.8	310.1	283.5	259.6	236.4	211.2	187.2	163.2	140.5
-65°	362.3	334.2	306.2	282.3	258.9	239.2	223.2	200.4	180.9	159.4	137.2
-67.5°	322.8	299.6	276.5	254.9	238.4	223.9	208.9	192.1	174.9	155.1	133.3
-70°	287.2	266.5	249.8	235.7	222.0	209.2	198.6	184.5	168.5	149.9	129.0
-72.5°	258.0	244.3	230.5	217.7	208.2	198.5	188.8	176.6	161.3	144.2	124.4
-75°	235.9	225.2	214.8	205.2	196.5	187.7	178.7	168.1	153.7	138.2	118.9
-77.5°	219.7	210.3	201.2	192.4	184.5	176.4	168.5	159.4	145.7	131.0	113.0
-80°	203.6	195.2	187.1	179.2	172.1	164.9	157.5	149.2	136.4	123.4	106.8
-82.5°	187.3	179.9	172.6	165.2	158.6	151.9	145.4	138.3	127.0	115.5	101.0
-85°	170.6	164.0	157.3	150.6	144.8	138.8	133.7	128.3	118.8	109.3	96.1
-87.5°	156.7	151.0	145.3	139.6	134.8	130.0	125.1	120.1	111.5	102.9	91.0
-90°	4.0	4.0	4.4	4.7	4.7	4.7	5.0	5.3	5.3	5.3	5.7



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	75.2	62.2	49.2	35.2	21.3	14.3	7.3
87.5°	6.3	6.3	6.2	6.2	6.2	6.8	7.3
85°	6.7	6.6	6.5	6.4	6.4	6.9	7.3
82.5°	7.0	6.8	6.7	6.6	6.5	7.1	7.3
80°	7.3	7.1	6.9	6.9	6.7	7.2	7.3
77.5°	7.7	7.5	7.1	7.1	6.9	7.4	7.3
75°	8.1	7.9	7.4	7.3	7.1	7.6	7.3
72.5°	8.5	8.4	7.9	7.5	7.3	7.7	7.3
70°	8.9	8.8	8.4	7.8	7.6	7.9	7.3
67.5°	9.5	9.3	8.9	8.2	7.8	8.0	7.3
65°	10.1	9.9	9.3	8.6	8.0	8.2	7.3
62.5°	10.7	10.4	9.8	9.0	8.3	8.3	7.3
60°	11.3	11.0	10.3	9.3	8.5	8.5	7.3
57.5°	12.6	11.5	11.0	9.7	9.0	8.7	7.3
55°	14.1	12.1	11.7	10.1	9.4	8.8	7.3
52.5°	15.7	12.9	12.5	10.5	9.9	9.0	7.3
50°	17.4	14.7	13.3	10.9	10.4	9.2	7.3
47.5°	19.5	16.6	14.2	11.3	10.9	9.3	7.3
45°	23.2	18.7	15.1	12.0	11.5	9.5	7.3
42.5°	26.8	20.8	16.1	12.8	12.1	9.7	7.3
40°	30.8	23.0	17.5	13.9	12.7	9.8	7.3
37.5°	35.0	25.4	19.3	15.2	13.3	10.0	7.3
35°	39.2	28.4	21.1	16.6	14.0	10.1	7.3
32.5°	43.9	31.8	22.8	18.0	14.6	10.3	7.3
30°	49.2	35.2	24.6	19.4	15.3	10.5	7.3
27.5°	54.4	38.5	27.1	20.8	16.0	10.6	7.3
25°	59.6	41.8	29.5	22.3	16.7	10.8	7.3
22.5°	64.5	45.1	32.0	23.7	17.4	10.9	7.3
20°	69.3	48.7	34.3	25.2	18.2	11.1	7.3
17.5°	74.1	52.2	36.6	26.6	18.9	11.2	7.3
15°	78.7	55.5	38.9	28.1	19.6	11.3	7.3
12.5°	83.1	58.7	41.0	29.5	20.2	11.5	7.3
10°	87.2	61.7	43.1	30.9	20.9	11.6	7.3
7.5°	90.9	64.5	45.1	32.2	21.6	11.7	7.3
5°	94.4	67.1	47.0	33.5	22.2	11.8	7.3
2.5°	97.6	69.6	48.8	34.7	22.8	11.9	7.3
0°	100.4	71.8	50.5	35.9	23.3	12.0	7.3
-2.5°	104.7	75.1	52.8	37.5	24.3	12.5	7.3
-5°	108.6	78.1	55.1	39.0	25.2	12.9	7.3
-7.5°	112.2	81.0	57.2	40.4	26.2	13.3	7.3
-10°	115.3	83.5	59.1	41.8	27.0	13.8	7.3
-12.5°	118.1	85.8	60.9	43.0	27.8	14.2	7.3
-15°	120.4	87.8	62.6	44.2	28.5	14.6	7.3
-17.5°	122.3	89.5	64.0	45.2	29.2	14.9	7.3
-20°	124.0	90.9	65.3	46.2	29.8	15.3	7.3



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-5S-VHE

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	125.7	92.0	66.5	47.0	30.4	15.6	7.3
-25°	126.9	93.3	67.4	47.8	30.9	15.9	7.3
-27.5°	127.6	94.5	68.1	48.4	31.3	16.2	7.3
-30°	127.9	95.5	68.7	48.9	31.7	16.5	7.3
-32.5°	127.6	96.1	69.9	49.4	32.0	16.7	7.3
-35°	127.7	96.4	70.9	49.7	32.2	16.9	7.3
-37.5°	127.7	96.7	71.6	49.9	32.3	17.1	7.3
-40°	127.2	97.4	72.2	49.9	32.4	17.2	7.3
-42.5°	126.5	97.9	72.7	50.1	32.4	17.3	7.3
-45°	125.4	98.1	73.1	50.3	32.3	17.4	7.3
-47.5°	123.9	98.1	73.3	50.5	32.2	17.5	7.3
-50°	123.3	97.9	73.2	50.5	32.0	17.5	7.3
-52.5°	122.6	97.4	72.8	50.4	31.7	17.5	7.3
-55°	121.6	96.5	72.3	50.2	31.4	17.4	7.3
-57.5°	120.3	95.3	71.4	49.8	30.9	17.4	7.3
-60°	118.6	93.9	70.4	49.3	30.4	17.3	7.3
-62.5°	116.4	92.2	69.4	48.6	30.0	17.2	7.3
-65°	113.8	90.2	68.2	47.9	29.6	17.0	7.3
-67.5°	111.0	88.0	66.9	46.9	29.0	16.9	7.3
-70°	107.8	85.7	65.3	45.9	28.4	16.7	7.3
-72.5°	104.0	83.0	63.6	44.9	27.7	16.4	7.3
-75°	99.9	80.1	61.7	43.8	26.9	16.2	7.3
-77.5°	95.3	76.9	59.9	42.6	26.1	15.9	7.3
-80°	90.5	74.1	58.0	41.4	25.2	15.6	7.3
-82.5°	86.8	71.3	56.0	40.0	24.3	15.3	7.3
-85°	83.1	68.4	53.8	38.5	23.3	15.0	7.3
-87.5°	79.2	65.4	51.6	36.9	22.3	14.7	7.3
-90°	6.0	6.0	6.0	6.0	6.0	6.7	7.3

(END OF REPORT)

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

Scaled Data Report



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

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)



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

Scaled Data Report

