

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: P735959 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 1/29/2024

Test Information

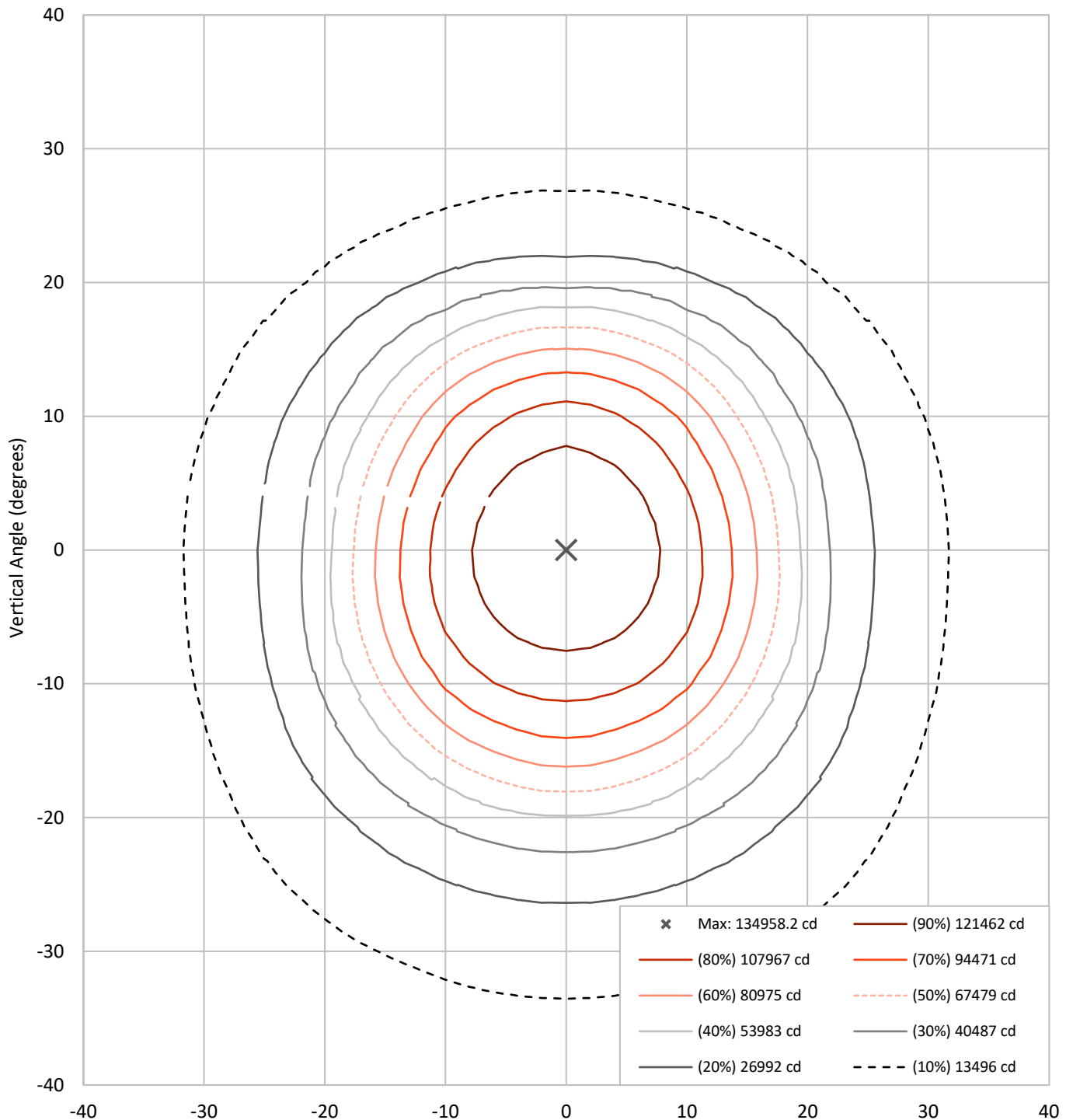
Test Method: LM-79-08
Report Number: P735959 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-57-70-4S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 4S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	55983.4 lumens	Max Intensity:	134958.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	161.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	35.2°H x 34.7°V	Field Angle (10%):	63.4°H x 60.3°V
Beam Lumens:	30048 lumens	Field Lumens:	48897 lumens
Beam Efficiency:	53.7%	Field Efficiency:	87.3%
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





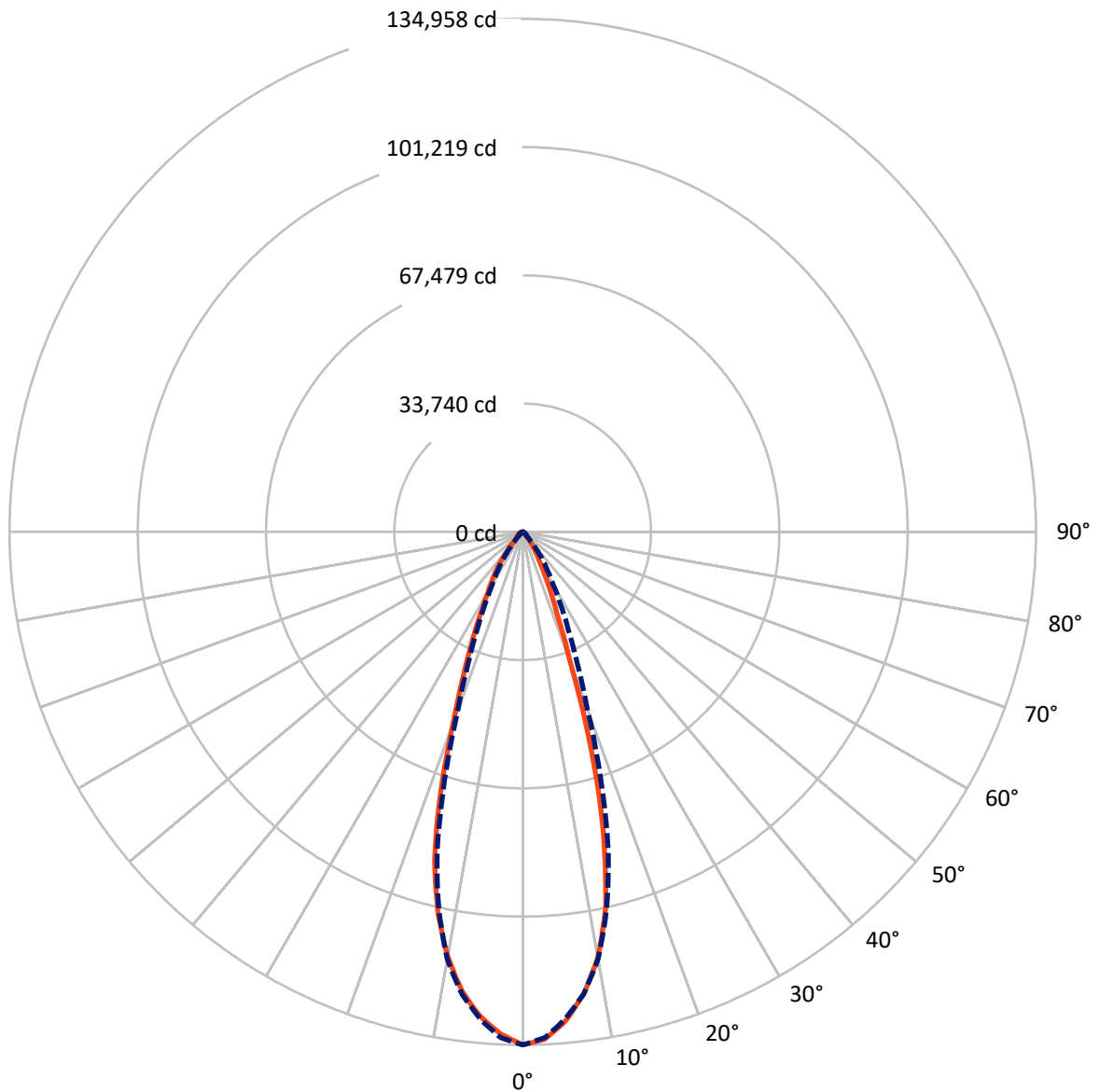
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Lumen Table

90	0.2		0.6		1.1		1.4		1.6		1.4		1.1		0.6		0.2	
80	0.2		0.1	0.1	0.3	0.5	0.4	0.4	0.5	0.5	0.4	0.4	0.5	0.3	0.1	0.1	0.2	
70	0.2		0.3	0.5	0.8	0.7	0.5	0.7	0.8	0.8	0.7	0.5	0.7	0.8	0.5	0.3	0.2	
60	0.5		0.7	1.6	3.2	5.8	9.3	13.6	17.5	17.5	13.6	9.3	5.8	3.2	1.6	0.7	0.5	
50	0.5		1.7	5.3	10.2	16.7	38.7	86.4	140.0	140.0	86.4	38.7	16.7	10.2	5.3	1.7	0.5	
40	1.2		2.9	8.9	17.2	54.0	166.2	362.7	549.9	549.9	362.7	166.2	54.0	17.2	8.9	2.9	1.2	
30	1.2		4.0	11.7	27.5	140.6	466.4	1246.1	2214.2	2214.2	1246.1	466.4	140.6	27.5	11.7	4.0	1.2	
20	1.8		4.9	13.7	38.2	220.1	765.5	2265.6	3627.9	3627.9	2265.6	765.5	220.1	38.2	13.7	4.9	1.8	
10	1.8		5.5	15.2	42.7	235.9	804.0	2375.2	3656.6	3656.6	2375.2	804.0	235.9	42.7	15.2	5.5	1.8	
0	2.1		5.6	16.0	39.3	188.3	593.9	1495.1	2456.3	2456.3	1495.1	593.9	188.3	39.3	16.0	5.6	2.1	
-10	2.1		5.2	16.0	33.7	103.6	329.8	647.6	935.1	935.1	647.6	329.8	103.6	33.7	16.0	5.2	2.1	
-20	1.9		4.5	14.4	28.2	49.8	122.4	246.6	340.9	340.9	246.6	122.4	49.8	28.2	14.4	4.5	1.9	
-30	1.9		3.5	10.8	22.6	35.6	49.4	67.4	86.3	86.3	67.4	49.4	35.6	22.6	10.8	3.5	1.9	
-40	1.7		2.6	6.7	14.7	25.3	34.1	41.2	46.3	46.3	41.2	34.1	25.3	14.7	6.7	2.6	1.7	
-50	1.7		2.0	4.0	7.4	12.7	18.0	22.9	26.2	26.2	22.9	18.0	12.7	7.4	4.0	2.0	1.7	
-60	1.7		2.0	4.0	7.4	12.7	18.0	22.9	26.2	26.2	22.9	18.0	12.7	7.4	4.0	2.0	1.7	
-70	1.7		2.0	4.0	7.4	12.7	18.0	22.9	26.2	26.2	22.9	18.0	12.7	7.4	4.0	2.0	1.7	
-80	1.2		7.1		16.0		25.9		31.7		25.9		16.0		7.1		1.2	
-90	1.2		7.1		16.0		25.9		31.7		25.9		16.0		7.1		1.2	

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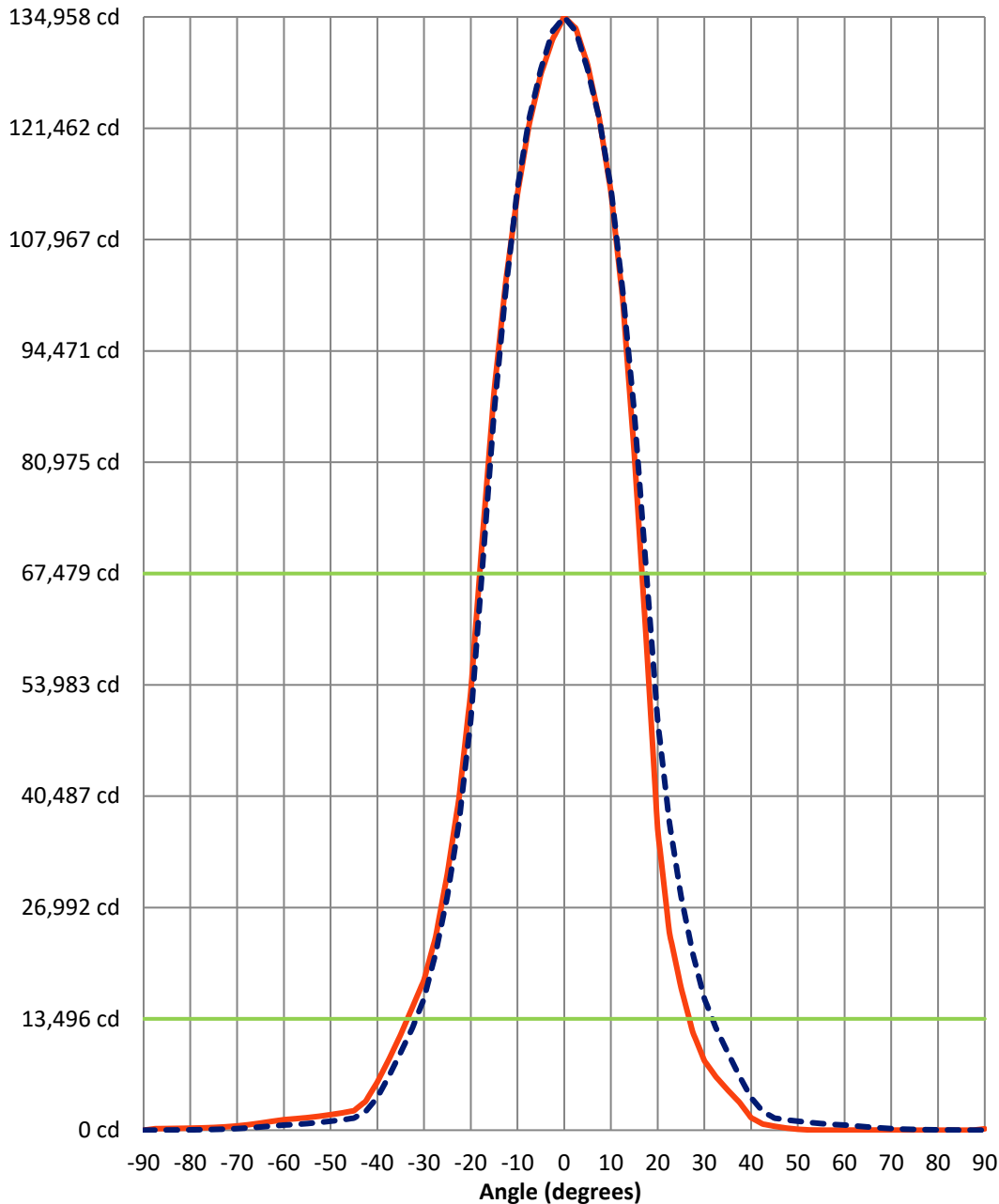
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 35.2°
V Angle: 34.7°
Lumens: 30048
Efficiency: 53.7%

Field:
H Angle: 63.4°
V Angle: 60.3°
Lumens: 48897
Efficiency: 87.3%

Spill:
Lumens: 7086.4
Efficiency: 12.7%

— 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°	6.0	11.3	16.7	27.4	38.1	47.7	57.4	65.1	72.8	77.8	82.8
87.5°	6.0	5.5	4.8	4.9	4.9	4.9	4.9	4.5	4.2	4.3	4.3
85°	6.0	5.6	4.9	5.0	5.2	5.1	5.0	4.7	4.5	4.5	4.6
82.5°	6.0	5.7	5.1	5.2	5.4	5.3	5.2	5.0	4.7	4.8	4.9
80°	6.0	5.8	5.2	5.4	5.6	5.5	5.4	5.3	5.2	5.2	5.1
77.5°	6.0	5.9	5.3	5.5	5.8	5.8	5.7	5.7	5.7	5.6	5.4
75°	6.0	6.1	5.5	5.7	6.0	6.1	6.1	6.1	6.1	5.9	5.5
72.5°	6.0	6.2	5.6	5.9	6.3	6.4	6.5	6.5	6.4	6.1	5.6
70°	6.0	6.3	5.8	6.0	6.5	6.7	6.9	6.9	6.7	6.4	6.1
67.5°	6.0	6.5	5.9	6.3	6.8	7.0	7.3	7.3	7.1	6.9	6.8
65°	6.0	6.6	6.1	6.6	7.1	7.4	7.8	7.7	7.9	7.5	7.6
62.5°	6.0	6.7	6.3	6.9	7.4	8.0	8.4	8.5	8.8	8.3	9.0
60°	6.0	6.9	6.5	7.1	7.7	8.7	9.0	9.7	9.8	10.5	10.8
57.5°	6.0	7.0	6.9	7.4	8.4	9.3	10.3	11.0	12.3	13.1	14.6
55°	6.0	7.1	7.3	7.7	9.1	10.1	11.7	12.4	15.2	16.6	19.5
52.5°	6.0	7.3	7.7	8.0	9.9	10.9	13.1	15.4	18.4	22.4	24.9
50°	6.0	7.4	8.1	8.3	10.7	12.4	14.7	18.6	22.5	28.6	32.3
47.5°	6.0	7.6	8.6	8.7	11.6	14.0	16.5	22.0	28.6	35.2	40.7
45°	6.0	7.7	9.1	9.4	12.5	15.7	19.5	25.5	35.1	43.4	49.6
42.5°	6.0	7.8	9.6	10.1	13.4	17.4	22.6	30.5	41.9	52.0	64.0
40°	6.0	8.0	10.1	11.1	14.6	19.2	25.9	36.5	49.3	61.0	80.5
37.5°	6.0	8.1	10.7	12.2	16.0	21.0	29.3	42.7	57.9	72.7	98.5
35°	6.0	8.3	11.2	13.4	17.4	23.5	32.7	49.0	66.8	89.4	120.3
32.5°	6.0	8.4	11.8	14.6	18.8	26.2	36.7	55.3	76.1	106.4	145.2
30°	6.0	8.6	12.4	15.8	20.2	28.9	41.8	61.7	85.6	123.8	169.0
27.5°	6.0	8.7	13.0	17.0	22.2	31.5	46.7	68.8	96.1	141.5	191.5
25°	6.0	8.8	13.6	18.3	24.1	34.1	51.5	75.5	108.2	159.9	212.9
22.5°	6.0	9.0	14.3	19.5	26.0	36.7	56.2	81.9	119.5	174.1	234.7
20°	6.0	9.1	14.9	20.7	27.9	39.8	60.6	87.9	130.0	187.4	252.4
17.5°	6.0	9.2	15.5	21.9	29.7	42.8	65.2	93.6	139.7	199.8	269.0
15°	6.0	9.4	16.1	23.0	31.5	45.6	69.8	99.2	148.5	211.1	284.5
12.5°	6.0	9.5	16.7	24.2	33.2	48.4	74.0	104.9	157.4	221.4	299.0
10°	6.0	9.6	17.3	25.3	34.9	51.0	78.0	110.3	166.1	234.6	314.9
7.5°	6.0	9.7	17.9	26.4	36.4	53.5	81.7	115.3	174.0	247.7	335.2
5°	6.0	9.8	18.4	27.4	37.9	55.9	85.1	119.8	181.1	259.8	354.4
2.5°	6.0	9.9	18.9	28.5	39.4	58.1	88.1	123.9	187.2	270.8	372.1
0°	6.0	10.0	19.4	29.4	40.7	60.1	90.8	127.5	192.3	280.4	387.9
-2.5°	6.0	10.4	20.1	30.6	42.6	62.5	93.9	131.9	199.0	288.3	395.8
-5°	6.0	10.7	20.8	31.8	44.4	64.7	96.7	135.7	204.7	294.6	401.6
-7.5°	6.0	11.1	21.5	32.9	46.1	66.8	99.0	139.0	209.0	299.2	405.3
-10°	6.0	11.4	22.1	34.0	47.7	68.6	101.0	141.6	212.1	302.1	406.8
-12.5°	6.0	11.7	22.7	34.9	49.2	70.2	102.5	143.5	213.7	303.2	408.6
-15°	6.0	12.0	23.2	35.8	50.5	71.6	103.6	144.8	213.4	301.8	408.5
-17.5°	6.0	12.3	23.7	36.6	51.7	72.8	104.3	145.7	211.3	298.5	405.1
-20°	6.0	12.6	24.2	37.3	52.7	73.7	104.8	146.1	208.0	293.1	398.1



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

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	6.0	12.8	24.6	38.0	53.6	74.4	105.3	145.9	203.4	285.6	387.7
-25°	6.0	13.0	24.9	38.5	54.4	75.3	105.4	145.0	197.5	276.1	376.9
-27.5°	6.0	13.2	25.2	38.9	54.9	76.1	104.9	143.5	190.3	267.8	367.6
-30°	6.0	13.4	25.5	39.3	55.4	76.6	104.0	141.4	186.1	260.2	355.5
-32.5°	6.0	13.6	25.7	39.5	56.1	76.8	102.6	139.6	183.6	250.5	340.3
-35°	6.0	13.8	25.8	39.7	56.7	76.8	102.1	137.5	180.1	238.9	322.0
-37.5°	6.0	13.9	25.9	39.7	57.1	76.8	101.8	134.7	175.5	225.2	304.5
-40°	6.0	14.0	25.9	39.7	57.4	77.1	101.1	131.1	170.0	216.4	287.5
-42.5°	6.0	14.1	25.9	39.6	57.5	77.3	100.0	126.9	164.6	209.2	268.4
-45°	6.0	14.1	25.9	39.7	57.7	77.2	98.5	123.2	158.8	200.6	249.0
-47.5°	6.0	14.1	25.8	39.7	57.6	76.9	96.7	121.1	152.1	190.7	237.6
-50°	6.0	14.1	25.6	39.7	57.4	76.4	95.7	118.5	144.5	181.8	224.7
-52.5°	6.0	14.1	25.4	39.6	57.0	75.7	94.7	115.6	139.4	171.9	209.8
-55°	6.0	14.1	25.1	39.5	56.4	74.8	93.4	112.4	135.3	160.9	195.5
-57.5°	6.0	14.0	24.8	39.2	55.7	73.6	91.9	110.6	130.5	153.9	180.3
-60°	6.0	13.9	24.5	38.8	54.8	72.3	90.1	108.3	125.8	147.6	166.7
-62.5°	6.0	13.8	24.1	38.3	54.1	70.8	88.1	105.6	122.5	140.5	158.0
-65°	6.0	13.7	23.7	37.7	53.2	69.0	85.9	102.6	118.7	134.7	149.0
-67.5°	6.0	13.5	23.2	37.0	52.1	67.3	83.4	99.3	114.7	129.3	141.9
-70°	6.0	13.4	22.6	36.3	51.0	65.5	80.7	95.7	110.4	123.6	135.5
-72.5°	6.0	13.2	22.0	35.4	49.7	63.5	77.9	91.8	105.8	117.8	128.8
-75°	6.0	13.0	21.4	34.5	48.2	61.3	74.9	87.9	101.0	111.8	122.0
-77.5°	6.0	12.7	20.7	33.5	46.8	59.0	71.8	83.8	96.0	105.6	114.9
-80°	6.0	12.5	20.0	32.4	45.2	56.8	68.4	79.5	90.8	99.4	107.7
-82.5°	6.0	12.2	19.2	31.3	43.6	54.7	65.8	75.5	85.4	93.0	100.5
-85°	6.0	11.9	18.4	30.1	41.9	52.5	63.1	72.1	81.2	87.6	93.9
-87.5°	6.0	11.7	17.6	28.8	40.0	50.2	60.3	68.7	77.1	82.7	88.4
-90°	6.0	5.4	4.7	4.7	4.7	4.7	4.7	4.4	4.0	4.0	4.0



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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°	86.5	90.1	93.5	96.8	100.8	104.8	108.8	112.8	117.2	121.5	125.9
87.5°	4.0	3.7	3.7	3.7	3.4	3.1	2.9	2.7	2.7	2.7	2.6
85°	4.3	4.0	4.0	4.0	3.7	3.5	3.2	3.0	3.0	3.0	2.9
82.5°	4.6	4.4	4.2	4.0	3.9	4.0	3.7	3.4	3.4	3.3	3.1
80°	4.9	4.7	4.4	4.2	4.2	4.0	3.9	3.9	3.7	3.4	3.4
77.5°	5.1	4.8	4.6	4.6	4.4	4.1	4.0	4.0	3.9	3.9	3.7
75°	5.1	4.8	4.8	4.7	4.5	4.1	4.0	4.2	4.2	4.1	3.9
72.5°	5.4	5.2	5.0	4.8	4.7	4.5	4.5	4.6	5.0	5.3	5.6
70°	6.0	5.7	5.5	5.4	5.1	5.1	5.7	6.8	7.9	8.3	9.4
67.5°	6.6	6.4	6.2	6.0	6.1	6.6	7.4	9.8	12.0	13.5	15.1
65°	7.3	7.2	7.2	7.3	7.3	9.3	11.6	14.0	17.8	19.9	20.0
62.5°	8.1	9.2	8.8	9.3	11.2	13.4	16.7	21.1	25.9	27.8	26.6
60°	11.6	12.1	12.4	13.8	15.7	18.0	22.7	28.0	33.5	36.8	31.9
57.5°	15.9	16.6	17.9	18.8	20.8	22.2	27.7	34.1	37.7	39.8	34.2
55°	21.4	22.4	24.3	24.7	26.4	27.0	31.6	36.0	39.1	39.7	33.7
52.5°	28.3	29.5	32.1	32.6	32.7	33.2	33.8	38.8	41.2	40.5	34.9
50°	35.7	39.9	41.3	42.9	40.9	41.7	39.4	45.1	49.9	48.7	50.3
47.5°	46.7	51.9	54.0	56.8	55.4	59.9	58.2	69.0	72.8	94.4	99.2
45°	60.0	69.2	72.0	78.4	84.8	90.2	107.5	108.9	154.5	173.4	209.2
42.5°	76.0	90.3	101.9	104.3	135.3	151.8	176.0	215.8	255.7	292.3	316.6
40°	99.6	114.4	139.4	168.5	201.4	236.9	269.1	315.3	354.0	382.8	399.9
37.5°	126.5	154.8	188.8	241.3	285.7	321.9	358.5	398.5	434.9	460.2	493.1
35°	156.0	197.2	260.3	314.9	362.6	396.7	432.5	474.8	509.2	550.0	590.6
32.5°	191.9	240.6	319.7	378.6	417.4	457.8	499.0	543.6	592.8	643.0	695.1
30°	227.3	289.3	366.7	427.9	465.5	512.5	562.7	614.9	679.5	742.8	813.1
27.5°	255.2	331.2	404.8	468.1	511.9	567.5	628.7	696.8	773.6	851.0	944.4
25°	280.2	362.4	443.2	510.3	565.9	627.6	699.5	781.3	872.6	981.5	1275.2
22.5°	304.5	392.7	485.6	555.6	618.1	687.8	774.5	869.9	977.4	1122.0	1641.5
20°	329.4	427.1	526.2	593.2	665.7	743.8	845.4	956.1	1089.3	1431.1	2197.4
17.5°	355.1	462.6	560.8	626.2	702.6	797.8	916.0	1040.8	1203.2	1720.4	2893.5
15°	380.1	496.0	588.5	655.5	739.6	850.5	982.4	1135.4	1404.9	2124.3	3591.0
12.5°	404.0	526.0	609.1	680.6	776.1	900.1	1044.1	1215.7	1641.8	2669.2	4351.8
10°	426.5	552.6	627.1	704.6	811.8	946.7	1099.3	1286.4	1848.7	3104.8	4954.0
7.5°	450.9	575.4	643.3	727.3	844.8	989.3	1144.8	1340.8	2002.9	3438.7	5401.4
5°	473.0	593.9	662.0	754.0	877.5	1027.8	1183.7	1386.4	2108.1	3650.4	5711.9
2.5°	492.2	608.7	679.4	779.3	908.2	1061.5	1219.0	1432.1	2201.9	3829.3	6104.7
0°	508.7	620.2	695.0	801.8	934.7	1089.6	1247.8	1468.8	2264.7	3949.8	6560.3
-2.5°	518.8	637.4	721.1	825.5	956.6	1109.5	1273.9	1508.1	2328.3	4210.3	6733.9
-5°	526.0	651.3	744.5	846.3	974.4	1124.1	1293.0	1535.9	2355.6	4282.0	6683.3
-7.5°	530.2	661.4	764.5	864.5	990.2	1141.0	1323.1	1573.1	2368.0	4105.4	6396.9
-10°	532.5	669.9	777.6	879.4	1004.9	1156.5	1346.6	1597.1	2317.1	3867.1	6067.4
-12.5°	538.2	677.2	788.0	890.5	1014.7	1167.6	1364.9	1615.2	2201.3	3539.7	5614.5
-15°	539.7	680.9	796.7	898.1	1024.9	1184.0	1378.7	1618.3	2034.0	3116.6	5036.3
-17.5°	536.7	681.1	802.8	904.1	1030.0	1190.3	1383.1	1609.4	1909.0	2809.2	4454.5
-20°	528.8	673.1	804.7	904.7	1028.0	1192.8	1385.3	1605.6	1878.4	2495.0	3749.0



REPORT NUMBER: P735959 (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°	516.1	660.5	798.2	903.7	1034.7	1193.9	1378.9	1581.9	1812.3	2115.8	3046.7
-25°	502.6	642.6	781.3	906.9	1036.0	1188.3	1351.9	1538.3	1751.1	1988.4	2545.5
-27.5°	487.9	621.8	763.9	902.9	1029.7	1167.5	1319.5	1494.1	1669.3	1861.1	2098.3
-30°	470.1	599.1	740.7	888.2	1014.7	1143.5	1283.7	1424.8	1581.9	1754.5	1955.4
-32.5°	448.8	572.5	711.8	857.7	995.0	1115.6	1232.8	1359.6	1499.7	1651.9	1818.1
-35°	425.6	545.4	678.0	820.4	970.8	1081.6	1183.4	1293.1	1417.3	1556.3	1710.7
-37.5°	402.1	514.2	638.3	777.2	923.5	1039.5	1131.2	1233.5	1342.8	1461.9	1605.5
-40°	375.5	478.3	596.9	728.2	857.9	983.3	1084.0	1176.8	1272.9	1381.8	1499.1
-42.5°	346.8	443.4	551.7	670.6	788.4	907.9	1034.1	1125.3	1211.3	1303.8	1406.5
-45°	322.9	404.8	502.7	608.5	714.7	830.5	952.2	1074.1	1152.6	1232.7	1320.2
-47.5°	295.1	365.7	455.2	543.4	641.3	750.5	865.8	978.8	1090.2	1168.2	1241.9
-50°	268.6	332.5	400.9	482.0	569.3	670.1	775.8	879.1	983.6	1089.1	1173.2
-52.5°	250.4	297.0	356.4	420.4	501.2	590.2	682.9	774.9	873.1	973.7	1070.6
-55°	230.7	270.6	312.9	367.4	433.9	513.2	590.3	672.8	757.0	849.9	944.3
-57.5°	212.0	245.1	278.2	319.6	375.5	436.2	503.8	571.5	647.9	725.6	806.4
-60°	193.4	220.6	248.7	281.7	320.2	371.4	420.3	479.3	542.8	606.7	678.5
-62.5°	175.7	197.8	221.2	249.1	281.3	311.4	351.9	397.7	443.5	500.1	558.3
-65°	165.2	177.5	195.9	220.1	245.2	271.9	298.1	326.1	366.0	408.3	449.6
-67.5°	154.1	165.4	176.9	191.9	213.8	234.7	255.8	280.4	305.9	333.2	363.3
-70°	145.8	153.7	163.9	175.6	187.1	199.7	218.6	238.1	257.7	278.9	302.5
-72.5°	137.9	145.3	152.9	161.2	171.3	180.9	190.8	201.3	216.7	235.4	253.0
-75°	130.0	136.8	143.8	151.0	158.6	165.9	173.7	183.1	193.7	205.2	215.9
-77.5°	122.0	128.3	134.6	140.9	147.7	154.8	161.5	168.3	176.6	185.4	193.9
-80°	114.0	119.6	125.5	131.3	137.3	143.4	149.3	155.1	162.3	169.9	177.4
-82.5°	106.2	111.5	116.6	121.7	126.9	131.9	137.3	142.7	149.2	155.9	162.3
-85°	98.6	103.3	107.6	111.9	116.7	121.4	126.0	130.5	136.5	142.5	148.0
-87.5°	92.6	96.8	100.4	104.1	108.3	112.5	116.4	120.3	125.5	130.6	135.3
-90°	3.7	3.3	3.3	3.3	3.0	2.7	2.7	2.7	2.7	2.7	2.4



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	130.2	133.2	136.2	138.2	140.2	143.2	146.2	150.6	154.9	158.6	162.2
87.5°	2.6	2.3	2.0	2.0	1.9	1.9	2.0	1.6	1.3	1.3	1.3
85°	2.7	2.6	2.5	2.5	2.6	2.3	2.0	2.0	2.0	2.0	2.0
82.5°	3.0	2.9	2.7	2.7	2.7	2.6	2.6	2.3	2.0	2.0	2.0
80°	3.3	3.1	3.0	2.9	2.7	2.7	2.7	2.4	2.0	2.0	2.0
77.5°	3.4	3.4	3.3	3.1	2.8	2.7	2.7	2.4	2.0	2.0	2.0
75°	3.9	3.9	3.8	3.7	3.6	3.8	4.0	3.9	3.7	3.5	3.2
72.5°	6.0	6.0	5.9	6.2	6.6	6.9	7.1	7.3	7.6	8.0	8.6
70°	10.6	11.5	11.5	11.5	11.4	11.1	10.7	10.6	10.7	10.9	11.1
67.5°	16.0	16.7	17.0	17.1	15.6	14.6	14.2	14.3	14.9	16.1	17.9
65°	20.5	19.2	18.1	16.9	17.1	17.0	16.2	15.9	16.4	17.1	17.9
62.5°	24.3	19.3	16.1	14.6	14.8	15.3	13.9	12.7	12.4	12.2	12.3
60°	26.1	18.2	12.8	10.9	9.7	9.1	8.1	6.9	6.6	6.5	6.7
57.5°	26.4	17.3	10.2	8.0	6.1	4.7	4.0	3.5	3.5	3.4	3.3
55°	25.6	17.5	9.9	9.0	8.3	7.6	6.6	6.4	6.1	6.1	6.4
52.5°	26.5	24.6	20.1	19.5	23.8	23.9	20.6	25.3	28.5	31.1	32.2
50°	52.4	50.4	63.6	63.6	77.0	88.5	85.1	91.8	103.5	113.6	119.8
47.5°	122.4	132.0	151.9	169.7	189.9	215.4	226.7	234.7	244.9	258.5	267.6
45°	228.0	251.9	277.7	306.6	340.3	370.1	387.5	404.2	415.3	427.4	441.7
42.5°	338.5	367.0	405.4	439.9	476.4	511.2	538.6	562.8	610.0	677.3	730.8
40°	433.2	465.6	510.1	556.1	599.1	643.2	764.4	867.7	996.5	1188.7	1359.0
37.5°	527.2	564.6	614.2	670.6	800.4	931.7	1196.4	1482.5	1730.3	2008.3	2288.9
35°	629.6	678.7	745.1	935.0	1175.1	1525.1	1904.8	2329.6	2690.3	3078.3	3646.8
32.5°	750.5	836.4	1051.0	1396.1	1826.6	2323.8	2794.8	3328.8	3779.2	4492.1	5360.4
30°	906.5	1175.6	1587.6	2064.2	2645.1	3274.4	3864.9	4729.9	5740.4	6634.9	7373.6
27.5°	1282.4	1802.5	2377.7	2981.6	3709.0	4471.6	5709.8	6829.3	7916.5	8882.4	10004.5
25°	1843.8	2678.2	3661.2	4470.9	5459.3	6837.5	8237.6	9470.5	11122.9	12576.2	14206.5
22.5°	2637.9	3826.0	5092.1	6274.3	7792.2	9518.3	11402.1	13673.8	15969.3	18519.0	20787.4
20°	3413.0	4916.1	6519.6	8221.4	10165.4	12323.5	15402.9	19089.5	22626.7	26643.8	30031.1
17.5°	4445.2	6262.3	8158.6	10321.8	12821.2	16141.5	20686.6	25727.6	31197.3	37195.9	42743.0
15°	5494.8	7452.3	9655.9	12424.5	15959.8	20472.3	26270.8	33133.1	41132.2	49950.4	60670.9
12.5°	6355.0	8495.5	11072.2	14561.4	19185.0	25219.7	32245.1	40505.8	51472.3	64772.5	77227.8
10°	7089.9	9656.6	12912.5	17041.9	22480.5	29293.2	37273.9	47501.3	62273.7	77681.5	91350.0
7.5°	7847.0	10883.4	14331.6	18808.8	24992.5	32725.5	42553.0	55908.5	72162.1	87965.3	100499.9
5°	8561.0	11720.0	15227.0	20010.5	26697.6	35002.8	46153.2	62420.2	80107.6	95585.9	107362.1
2.5°	9120.3	12140.7	15698.5	20905.4	27619.3	36240.5	48410.1	66446.9	85001.0	100255.6	112331.2
0°	9410.5	12368.9	15960.2	21465.0	28383.8	37376.4	49703.9	68223.9	86991.5	101846.7	114154.9
-2.5°	9346.3	12258.7	15798.2	21033.0	28209.1	37581.9	50779.8	69149.9	87334.4	102389.5	113989.2
-5°	9211.3	12085.2	15575.8	20502.3	27583.5	37065.3	49611.6	66500.6	84062.7	99505.9	110782.7
-7.5°	8959.6	11794.7	15132.3	19726.0	26546.6	35525.5	46847.3	61523.2	78371.1	93844.0	104760.9
-10°	8589.3	11345.9	14495.8	18673.7	24799.1	33046.0	42671.6	54132.5	69893.0	84359.3	96489.3
-12.5°	8063.1	10711.0	13612.7	17202.8	22688.5	29956.3	38254.4	47777.0	59041.2	72992.9	84363.0
-15°	7393.4	9883.7	12580.0	15967.4	20554.3	26509.2	33505.6	40892.9	49526.5	59157.1	70239.9
-17.5°	6571.5	8910.8	11421.7	14342.0	18051.6	23047.8	28582.2	34346.4	40578.3	47665.5	54176.7
-20°	5591.5	7731.2	10097.4	12813.7	15992.3	19601.1	23624.3	28284.2	33114.7	38173.0	42648.4



REPORT NUMBER: P735959 (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°	4596.3	6548.3	8803.1	11178.2	13940.8	16695.5	19397.7	22862.5	26592.9	30254.9	33586.0
-25°	3596.3	5319.6	7416.0	9643.7	11861.1	14111.2	16305.2	18456.7	21141.0	23498.1	25943.1
-27.5°	2856.5	4145.6	5906.0	7850.1	9782.3	11659.8	13556.7	15353.8	17046.7	18470.2	20118.6
-30°	2246.4	3116.6	4476.5	6006.4	7697.0	9351.3	10985.9	12504.0	13837.1	15009.1	16153.8
-32.5°	2031.1	2386.4	3194.5	4357.1	5690.9	7142.2	8508.5	9812.4	10911.5	12000.7	13026.4
-35°	1878.9	2074.5	2338.7	3064.9	3933.5	5088.5	6159.5	7241.7	8164.7	9252.5	10093.6
-37.5°	1754.1	1904.8	2071.8	2243.1	2771.3	3349.6	4120.7	4931.9	5645.0	6557.5	7300.1
-40°	1633.3	1766.7	1897.2	2027.5	2167.9	2297.0	2756.0	3174.3	3658.0	4282.2	4816.3
-42.5°	1516.5	1634.0	1747.0	1852.8	1951.0	2035.8	2128.1	2216.7	2477.9	2796.0	3040.3
-45°	1411.7	1511.5	1606.1	1695.6	1770.4	1838.2	1909.4	1983.5	2080.6	2168.9	2241.7
-47.5°	1322.5	1401.5	1479.0	1551.9	1609.3	1667.2	1723.9	1787.8	1863.4	1937.5	1999.5
-50°	1241.9	1310.2	1369.1	1420.7	1468.5	1517.4	1562.6	1619.4	1680.2	1741.5	1792.8
-52.5°	1164.7	1225.4	1274.7	1314.0	1350.3	1390.3	1429.0	1474.4	1523.8	1575.4	1616.1
-55°	1034.9	1112.1	1183.6	1220.5	1249.0	1281.9	1314.8	1351.5	1393.2	1436.6	1468.9
-57.5°	891.4	967.7	1035.0	1082.9	1130.3	1178.5	1214.7	1243.4	1281.2	1318.2	1346.0
-60°	747.4	811.3	870.8	919.3	968.6	1016.9	1057.6	1095.1	1141.8	1184.2	1218.7
-62.5°	613.4	669.3	715.1	754.3	796.4	838.4	877.2	914.1	956.5	994.6	1026.9
-65°	491.5	538.4	572.3	603.2	636.6	671.5	702.1	732.7	766.8	797.3	823.8
-67.5°	397.4	428.6	449.7	469.3	495.8	522.9	547.0	571.4	597.4	620.5	640.6
-70°	325.4	344.8	357.8	372.9	391.8	409.1	424.9	442.7	461.9	479.5	495.5
-72.5°	269.7	283.0	292.8	304.8	316.8	327.8	337.8	350.6	364.5	378.2	391.2
-75°	225.9	234.6	243.9	252.6	260.8	268.8	276.1	286.4	297.2	307.4	317.2
-77.5°	202.7	209.1	214.4	219.2	223.7	228.9	233.9	242.6	252.1	260.0	267.4
-80°	184.7	189.7	194.1	197.7	201.2	205.4	209.6	216.7	224.1	230.8	237.2
-82.5°	168.6	172.9	176.9	180.3	183.5	187.1	190.7	196.9	203.3	209.0	214.6
-85°	153.5	157.2	160.8	163.8	166.8	170.2	173.4	178.8	184.3	189.3	194.4
-87.5°	140.0	143.3	146.6	148.8	151.1	154.3	157.5	162.3	167.1	171.6	176.1
-90°	2.0	2.0	2.0	1.7	1.3	1.3	1.3	1.3	1.3	1.0	0.7



REPORT NUMBER: P735959 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-4S-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	164.2	166.2	166.6	166.9	166.6	166.2	164.2	162.2	158.6	154.9	150.6
87.5°	1.0	0.7	1.0	1.3	1.0	0.7	1.0	1.3	1.3	1.3	1.6
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.3
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.4
77.5°	1.7	1.3	1.6	2.0	1.6	1.3	1.7	2.0	2.0	2.0	2.4
75°	3.0	2.7	2.4	2.0	2.4	2.7	3.0	3.2	3.5	3.7	3.9
72.5°	8.9	9.1	9.6	10.0	9.6	9.1	8.9	8.6	8.0	7.6	7.3
70°	10.7	10.1	10.0	10.0	10.0	10.1	10.7	11.1	10.9	10.7	10.6
67.5°	19.2	20.2	20.6	20.7	20.6	20.2	19.2	17.9	16.1	14.9	14.3
65°	18.6	19.3	19.4	19.4	19.4	19.3	18.6	17.9	17.1	16.4	15.9
62.5°	12.5	12.8	13.1	13.4	13.1	12.8	12.5	12.3	12.2	12.4	12.7
60°	7.0	7.4	7.7	8.0	7.7	7.4	7.0	6.7	6.5	6.6	6.9
57.5°	3.3	3.4	3.6	4.0	3.6	3.4	3.3	3.3	3.4	3.5	3.5
55°	6.7	7.0	7.2	7.3	7.2	7.0	6.7	6.4	6.1	6.1	6.4
52.5°	31.6	30.1	28.9	28.0	28.9	30.1	31.6	32.2	31.1	28.5	25.3
50°	122.3	119.4	116.0	112.8	116.0	119.4	122.3	119.8	113.6	103.5	91.8
47.5°	273.0	270.6	265.5	259.0	265.5	270.6	273.0	267.6	258.5	244.9	234.7
45°	461.3	474.7	480.7	477.4	480.7	474.7	461.3	441.7	427.4	415.3	404.2
42.5°	749.0	760.8	761.9	744.4	761.9	760.8	749.0	730.8	677.3	610.0	562.8
40°	1482.3	1585.0	1620.2	1514.2	1620.2	1585.0	1482.3	1359.0	1188.7	996.5	867.7
37.5°	2627.1	3030.7	3367.3	3380.3	3367.3	3030.7	2627.1	2288.9	2008.3	1730.3	1482.5
35°	4257.7	4672.9	4873.7	4865.2	4873.7	4672.9	4257.7	3646.8	3078.3	2690.3	2329.6
32.5°	5984.3	6298.9	6499.9	6451.5	6499.9	6298.9	5984.3	5360.4	4492.1	3779.2	3328.8
30°	7901.1	8193.0	8427.3	8423.7	8427.3	8193.0	7901.1	7373.6	6634.9	5740.4	4729.9
27.5°	10917.9	11519.3	11997.3	11916.2	11997.3	11519.3	10917.9	10004.5	8882.4	7916.5	6829.3
25°	15581.7	16681.8	17459.6	17299.5	17459.6	16681.8	15581.7	14206.5	12576.2	11122.9	9470.5
22.5°	22471.4	23882.6	24472.7	24004.7	24472.7	23882.6	22471.4	20787.4	18519.0	15969.3	13673.8
20°	33258.2	35874.6	37501.2	36531.2	37501.2	35874.6	33258.2	30031.1	26643.8	22626.7	19089.5
17.5°	49922.5	55598.6	60083.3	59959.7	60083.3	55598.6	49922.5	42743.0	37195.9	31197.3	25727.6
15°	70004.8	76465.2	81439.7	82014.9	81439.7	76465.2	70004.8	60670.9	49950.4	41132.2	33133.1
12.5°	87986.3	94556.6	99424.5	100825.3	99424.5	94556.6	87986.3	77227.8	64772.5	51472.3	40505.8
10°	100801.6	107358.3	112070.1	113731.6	112070.1	107358.3	100801.6	91350.0	77681.5	62273.7	47501.3
7.5°	110202.9	117316.3	120848.2	122653.4	120848.2	117316.3	110202.9	100499.9	87965.3	72162.1	55908.5
5°	116967.6	123578.7	126995.5	129183.1	126995.5	123578.7	116967.6	107362.1	95585.9	80107.6	62420.2
2.5°	121232.1	127473.4	131576.7	133538.8	131576.7	127473.4	121232.1	112331.2	100255.6	85001.0	66446.9
0°	122608.4	128600.2	133199.3	134958.2	133199.3	128600.2	122608.4	114154.9	101846.7	86991.5	68223.9
-2.5°	121968.2	127837.7	131505.8	132216.8	131505.8	127837.7	121968.2	113989.2	102389.5	87334.4	69149.9
-5°	118636.5	124046.3	127433.4	127990.0	127433.4	124046.3	118636.5	110782.7	99505.9	84062.7	66500.6
-7.5°	112892.9	118289.3	121089.0	121913.3	121089.0	118289.3	112892.9	104760.9	93844.0	78371.1	61523.2
-10°	104565.2	109778.7	112770.9	113480.6	112770.9	109778.7	104565.2	96489.3	84359.3	69893.0	54132.5
-12.5°	93201.7	98763.6	102112.5	102850.3	102112.5	98763.6	93201.7	84363.0	72992.9	59041.2	47777.0
-15°	78466.8	84187.8	88462.9	89497.2	88462.9	84187.8	78466.8	70239.9	59157.1	49526.5	40892.9
-17.5°	61481.7	67206.8	71048.4	71781.8	71048.4	67206.8	61481.7	54176.7	47665.5	40578.3	34346.4
-20°	46853.2	50535.2	52703.3	53080.9	52703.3	50535.2	46853.2	42648.4	38173.0	33114.7	28284.2



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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°	36308.4	38783.0	40103.1	40289.4	40103.1	38783.0	36308.4	33586.0	30254.9	26592.9	22862.5
-25°	28135.5	29933.6	30916.8	31080.5	30916.8	29933.6	28135.5	25943.1	23498.1	21141.0	18456.7
-27.5°	21603.2	22720.2	23635.0	23444.6	23635.0	22720.2	21603.2	20118.6	18470.2	17046.7	15353.8
-30°	17094.3	17810.7	18351.0	18209.5	18351.0	17810.7	17094.3	16153.8	15009.1	13837.1	12504.0
-32.5°	13835.6	14396.8	14776.7	14877.9	14776.7	14396.8	13835.6	13026.4	12000.7	10911.5	9812.4
-35°	10753.7	11212.3	11475.5	11577.7	11475.5	11212.3	10753.7	10093.6	9252.5	8164.7	7241.7
-37.5°	7851.3	8253.5	8504.7	8592.0	8504.7	8253.5	7851.3	7300.1	6557.5	5645.0	4931.9
-40°	5225.2	5535.2	5740.9	5820.6	5740.9	5535.2	5225.2	4816.3	4282.2	3658.0	3174.3
-42.5°	3230.7	3375.8	3467.7	3496.5	3467.7	3375.8	3230.7	3040.3	2796.0	2477.9	2216.7
-45°	2298.0	2338.1	2361.1	2365.5	2361.1	2338.1	2298.0	2241.7	2168.9	2080.6	1983.5
-47.5°	2048.0	2079.6	2095.7	2096.4	2095.7	2079.6	2048.0	1999.5	1937.5	1863.4	1787.8
-50°	1835.1	1864.3	1879.1	1880.1	1879.1	1864.3	1835.1	1792.8	1741.5	1680.2	1619.4
-52.5°	1649.5	1672.8	1683.6	1683.8	1683.6	1672.8	1649.5	1616.1	1575.4	1523.8	1474.4
-55°	1495.4	1513.5	1520.2	1518.9	1520.2	1513.5	1495.4	1468.9	1436.6	1393.2	1351.5
-57.5°	1369.2	1387.0	1392.6	1390.7	1392.6	1387.0	1369.2	1346.0	1318.2	1281.2	1243.4
-60°	1245.6	1264.6	1271.7	1271.2	1271.7	1264.6	1245.6	1218.7	1184.2	1141.8	1095.1
-62.5°	1050.0	1064.6	1072.5	1074.9	1072.5	1064.6	1050.0	1026.9	994.6	956.5	914.1
-65°	842.0	853.7	859.9	861.9	859.9	853.7	842.0	823.8	797.3	766.8	732.7
-67.5°	653.6	662.0	666.0	667.0	666.0	662.0	653.6	640.6	620.5	597.4	571.4
-70°	505.5	512.3	515.6	516.8	515.6	512.3	505.5	495.5	479.5	461.9	442.7
-72.5°	398.7	404.1	406.4	407.3	406.4	404.1	398.7	391.2	378.2	364.5	350.6
-75°	321.9	325.2	326.5	327.1	326.5	325.2	321.9	317.2	307.4	297.2	286.4
-77.5°	271.5	274.9	276.2	277.1	276.2	274.9	271.5	267.4	260.0	252.1	242.6
-80°	240.1	242.6	243.6	244.4	243.6	242.6	240.1	237.2	230.8	224.1	216.7
-82.5°	218.1	221.4	221.6	221.7	221.6	221.4	218.1	214.6	209.0	203.3	196.9
-85°	197.0	199.4	199.9	200.3	199.9	199.4	197.0	194.4	189.3	184.3	178.8
-87.5°	178.5	180.8	180.9	180.9	180.9	180.8	178.5	176.1	171.6	167.1	162.3
-90°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.3	1.3



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	146.2	143.2	140.2	138.2	136.2	133.2	130.2	125.9	121.5	117.2	112.8
87.5°	2.0	1.9	1.9	2.0	2.0	2.3	2.6	2.6	2.7	2.7	2.7
85°	2.0	2.3	2.6	2.5	2.5	2.6	2.7	2.9	3.0	3.0	3.0
82.5°	2.6	2.6	2.7	2.7	2.7	2.9	3.0	3.1	3.3	3.4	3.4
80°	2.7	2.7	2.7	2.9	3.0	3.1	3.3	3.4	3.4	3.7	3.9
77.5°	2.7	2.7	2.8	3.1	3.3	3.4	3.4	3.7	3.9	3.9	4.0
75°	4.0	3.8	3.6	3.7	3.8	3.9	3.9	3.9	4.1	4.2	4.2
72.5°	7.1	6.9	6.6	6.2	5.9	6.0	6.0	5.6	5.3	5.0	4.6
70°	10.7	11.1	11.4	11.5	11.5	11.5	10.6	9.4	8.3	7.9	6.8
67.5°	14.2	14.6	15.6	17.1	17.0	16.7	16.0	15.1	13.5	12.0	9.8
65°	16.2	17.0	17.1	16.9	18.1	19.2	20.5	20.0	19.9	17.8	14.0
62.5°	13.9	15.3	14.8	14.6	16.1	19.3	24.3	26.6	27.8	25.9	21.1
60°	8.1	9.1	9.7	10.9	12.8	18.2	26.1	31.9	36.8	33.5	28.0
57.5°	4.0	4.7	6.1	8.0	10.2	17.3	26.4	34.2	39.8	37.7	34.1
55°	6.6	7.6	8.3	9.0	9.9	17.5	25.6	33.7	39.7	39.1	36.0
52.5°	20.6	23.9	23.8	19.5	20.1	24.6	26.5	34.9	40.5	41.2	38.8
50°	85.1	88.5	77.0	63.6	63.6	50.4	52.4	50.3	48.7	49.9	45.1
47.5°	226.7	215.4	189.9	169.7	151.9	132.0	122.4	99.2	94.4	72.8	69.0
45°	387.5	370.1	340.3	306.6	277.7	251.9	228.0	209.2	173.4	154.5	108.9
42.5°	538.6	511.2	476.4	439.9	405.4	367.0	338.5	316.6	292.3	255.7	215.8
40°	764.4	643.2	599.1	556.1	510.1	465.6	433.2	399.9	382.8	354.0	315.3
37.5°	1196.4	931.7	800.4	670.6	614.2	564.6	527.2	493.1	460.2	434.9	398.5
35°	1904.8	1525.1	1175.1	935.0	745.1	678.7	629.6	590.6	550.0	509.2	474.8
32.5°	2794.8	2323.8	1826.6	1396.1	1051.0	836.4	750.5	695.1	643.0	592.8	543.6
30°	3864.9	3274.4	2645.1	2064.2	1587.6	1175.6	906.5	813.1	742.8	679.5	614.9
27.5°	5709.8	4471.6	3709.0	2981.6	2377.7	1802.5	1282.4	944.4	851.0	773.6	696.8
25°	8237.6	6837.5	5459.3	4470.9	3661.2	2678.2	1843.8	1275.2	981.5	872.6	781.3
22.5°	11402.1	9518.3	7792.2	6274.3	5092.1	3826.0	2637.9	1641.5	1122.0	977.4	869.9
20°	15402.9	12323.5	10165.4	8221.4	6519.6	4916.1	3413.0	2197.4	1431.1	1089.3	956.1
17.5°	20686.6	16141.5	12821.2	10321.8	8158.6	6262.3	4445.2	2893.5	1720.4	1203.2	1040.8
15°	26270.8	20472.3	15959.8	12424.5	9655.9	7452.3	5494.8	3591.0	2124.3	1404.9	1135.4
12.5°	32245.1	25219.7	19185.0	14561.4	11072.2	8495.5	6355.0	4351.8	2669.2	1641.8	1215.7
10°	37273.9	29293.2	22480.5	17041.9	12912.5	9656.6	7089.9	4954.0	3104.8	1848.7	1286.4
7.5°	42553.0	32725.5	24992.5	18808.8	14331.6	10883.4	7847.0	5401.4	3438.7	2002.9	1340.8
5°	46153.2	35002.8	26697.6	20010.5	15227.0	11720.0	8561.0	5711.9	3650.4	2108.1	1386.4
2.5°	48410.1	36240.5	27619.3	20905.4	15698.5	12140.7	9120.3	6104.7	3829.3	2201.9	1432.1
0°	49703.9	37376.4	28383.8	21465.0	15960.2	12368.9	9410.5	6560.3	3949.8	2264.7	1468.8
-2.5°	50779.8	37581.9	28209.1	21033.0	15798.2	12258.7	9346.3	6733.9	4210.3	2328.3	1508.1
-5°	49611.6	37065.3	27583.5	20502.3	15575.8	12085.2	9211.3	6683.3	4282.0	2355.6	1535.9
-7.5°	46847.3	35525.5	26546.6	19726.0	15132.3	11794.7	8959.6	6396.9	4105.4	2368.0	1573.1
-10°	42671.6	33046.0	24799.1	18673.7	14495.8	11345.9	8589.3	6067.4	3867.1	2317.1	1597.1
-12.5°	38254.4	29956.3	22688.5	17202.8	13612.7	10711.0	8063.1	5614.5	3539.7	2201.3	1615.2
-15°	33505.6	26509.2	20554.3	15967.4	12580.0	9883.7	7393.4	5036.3	3116.6	2034.0	1618.3
-17.5°	28582.2	23047.8	18051.6	14342.0	11421.7	8910.8	6571.5	4454.5	2809.2	1909.0	1609.4
-20°	23624.3	19601.1	15992.3	12813.7	10097.4	7731.2	5591.5	3749.0	2495.0	1878.4	1605.6



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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°	19397.7	16695.5	13940.8	11178.2	8803.1	6548.3	4596.3	3046.7	2115.8	1812.3	1581.9
-25°	16305.2	14111.2	11861.1	9643.7	7416.0	5319.6	3596.3	2545.5	1988.4	1751.1	1538.3
-27.5°	13556.7	11659.8	9782.3	7850.1	5906.0	4145.6	2856.5	2098.3	1861.1	1669.3	1494.1
-30°	10985.9	9351.3	7697.0	6006.4	4476.5	3116.6	2246.4	1955.4	1754.5	1581.9	1424.8
-32.5°	8508.5	7142.2	5690.9	4357.1	3194.5	2386.4	2031.1	1818.1	1651.9	1499.7	1359.6
-35°	6159.5	5088.5	3933.5	3064.9	2338.7	2074.5	1878.9	1710.7	1556.3	1417.3	1293.1
-37.5°	4120.7	3349.6	2771.3	2243.1	2071.8	1904.8	1754.1	1605.5	1461.9	1342.8	1233.5
-40°	2756.0	2297.0	2167.9	2027.5	1897.2	1766.7	1633.3	1499.1	1381.8	1272.9	1176.8
-42.5°	2128.1	2035.8	1951.0	1852.8	1747.0	1634.0	1516.5	1406.5	1303.8	1211.3	1125.3
-45°	1909.4	1838.2	1770.4	1695.6	1606.1	1511.5	1411.7	1320.2	1232.7	1152.6	1074.1
-47.5°	1723.9	1667.2	1609.3	1551.9	1479.0	1401.5	1322.5	1241.9	1168.2	1090.2	978.8
-50°	1562.6	1517.4	1468.5	1420.7	1369.1	1310.2	1241.9	1173.2	1089.1	983.6	879.1
-52.5°	1429.0	1390.3	1350.3	1314.0	1274.7	1225.4	1164.7	1070.6	973.7	873.1	774.9
-55°	1314.8	1281.9	1249.0	1220.5	1183.6	1112.1	1034.9	944.3	849.9	757.0	672.8
-57.5°	1214.7	1178.5	1130.3	1082.9	1035.0	967.7	891.4	806.4	725.6	647.9	571.5
-60°	1057.6	1016.9	968.6	919.3	870.8	811.3	747.4	678.5	606.7	542.8	479.3
-62.5°	877.2	838.4	796.4	754.3	715.1	669.3	613.4	558.3	500.1	443.5	397.7
-65°	702.1	671.5	636.6	603.2	572.3	538.4	491.5	449.6	408.3	366.0	326.1
-67.5°	547.0	522.9	495.8	469.3	449.7	428.6	397.4	363.3	333.2	305.9	280.4
-70°	424.9	409.1	391.8	372.9	357.8	344.8	325.4	302.5	278.9	257.7	238.1
-72.5°	337.8	327.8	316.8	304.8	292.8	283.0	269.7	253.0	235.4	216.7	201.3
-75°	276.1	268.8	260.8	252.6	243.9	234.6	225.9	215.9	205.2	193.7	183.1
-77.5°	233.9	228.9	223.7	219.2	214.4	209.1	202.7	193.9	185.4	176.6	168.3
-80°	209.6	205.4	201.2	197.7	194.1	189.7	184.7	177.4	169.9	162.3	155.1
-82.5°	190.7	187.1	183.5	180.3	176.9	172.9	168.6	162.3	155.9	149.2	142.7
-85°	173.4	170.2	166.8	163.8	160.8	157.2	153.5	148.0	142.5	136.5	130.5
-87.5°	157.5	154.3	151.1	148.8	146.6	143.3	140.0	135.3	130.6	125.5	120.3
-90°	1.3	1.3	1.3	1.7	2.0	2.0	2.0	2.4	2.7	2.7	2.7



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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°	108.8	104.8	100.8	96.8	93.5	90.1	86.5	82.8	77.8	72.8	65.1
87.5°	2.9	3.1	3.4	3.7	3.7	3.7	4.0	4.3	4.3	4.2	4.5
85°	3.2	3.5	3.7	4.0	4.0	4.0	4.3	4.6	4.5	4.5	4.7
82.5°	3.7	4.0	3.9	4.0	4.2	4.4	4.6	4.9	4.8	4.7	5.0
80°	3.9	4.0	4.2	4.2	4.4	4.7	4.9	5.1	5.2	5.2	5.3
77.5°	4.0	4.1	4.4	4.6	4.6	4.8	5.1	5.4	5.6	5.7	5.7
75°	4.0	4.1	4.5	4.7	4.8	4.8	5.1	5.5	5.9	6.1	6.1
72.5°	4.5	4.5	4.7	4.8	5.0	5.2	5.4	5.6	6.1	6.4	6.5
70°	5.7	5.1	5.1	5.4	5.5	5.7	6.0	6.1	6.4	6.7	6.9
67.5°	7.4	6.6	6.1	6.0	6.2	6.4	6.6	6.8	6.9	7.1	7.3
65°	11.6	9.3	7.3	7.3	7.2	7.2	7.3	7.6	7.5	7.9	7.7
62.5°	16.7	13.4	11.2	9.3	8.8	9.2	8.1	9.0	8.3	8.8	8.5
60°	22.7	18.0	15.7	13.8	12.4	12.1	11.6	10.8	10.5	9.8	9.7
57.5°	27.7	22.2	20.8	18.8	17.9	16.6	15.9	14.6	13.1	12.3	11.0
55°	31.6	27.0	26.4	24.7	24.3	22.4	21.4	19.5	16.6	15.2	12.4
52.5°	33.8	33.2	32.7	32.6	32.1	29.5	28.3	24.9	22.4	18.4	15.4
50°	39.4	41.7	40.9	42.9	41.3	39.9	35.7	32.3	28.6	22.5	18.6
47.5°	58.2	59.9	55.4	56.8	54.0	51.9	46.7	40.7	35.2	28.6	22.0
45°	107.5	90.2	84.8	78.4	72.0	69.2	60.0	49.6	43.4	35.1	25.5
42.5°	176.0	151.8	135.3	104.3	101.9	90.3	76.0	64.0	52.0	41.9	30.5
40°	269.1	236.9	201.4	168.5	139.4	114.4	99.6	80.5	61.0	49.3	36.5
37.5°	358.5	321.9	285.7	241.3	188.8	154.8	126.5	98.5	72.7	57.9	42.7
35°	432.5	396.7	362.6	314.9	260.3	197.2	156.0	120.3	89.4	66.8	49.0
32.5°	499.0	457.8	417.4	378.6	319.7	240.6	191.9	145.2	106.4	76.1	55.3
30°	562.7	512.5	465.5	427.9	366.7	289.3	227.3	169.0	123.8	85.6	61.7
27.5°	628.7	567.5	511.9	468.1	404.8	331.2	255.2	191.5	141.5	96.1	68.8
25°	699.5	627.6	565.9	510.3	443.2	362.4	280.2	212.9	159.9	108.2	75.5
22.5°	774.5	687.8	618.1	555.6	485.6	392.7	304.5	234.7	174.1	119.5	81.9
20°	845.4	743.8	665.7	593.2	526.2	427.1	329.4	252.4	187.4	130.0	87.9
17.5°	916.0	797.8	702.6	626.2	560.8	462.6	355.1	269.0	199.8	139.7	93.6
15°	982.4	850.5	739.6	655.5	588.5	496.0	380.1	284.5	211.1	148.5	99.2
12.5°	1044.1	900.1	776.1	680.6	609.1	526.0	404.0	299.0	221.4	157.4	104.9
10°	1099.3	946.7	811.8	704.6	627.1	552.6	426.5	314.9	234.6	166.1	110.3
7.5°	1144.8	989.3	844.8	727.3	643.3	575.4	450.9	335.2	247.7	174.0	115.3
5°	1183.7	1027.8	877.5	754.0	662.0	593.9	473.0	354.4	259.8	181.1	119.8
2.5°	1219.0	1061.5	908.2	779.3	679.4	608.7	492.2	372.1	270.8	187.2	123.9
0°	1247.8	1089.6	934.7	801.8	695.0	620.2	508.7	387.9	280.4	192.3	127.5
-2.5°	1273.9	1109.5	956.6	825.5	721.1	637.4	518.8	395.8	288.3	199.0	131.9
-5°	1293.0	1124.1	974.4	846.3	744.5	651.3	526.0	401.6	294.6	204.7	135.7
-7.5°	1323.1	1141.0	990.2	864.5	764.5	661.4	530.2	405.3	299.2	209.0	139.0
-10°	1346.6	1156.5	1004.9	879.4	777.6	669.9	532.5	406.8	302.1	212.1	141.6
-12.5°	1364.9	1167.6	1014.7	890.5	788.0	677.2	538.2	408.6	303.2	213.7	143.5
-15°	1378.7	1184.0	1024.9	898.1	796.7	680.9	539.7	408.5	301.8	213.4	144.8
-17.5°	1383.1	1190.3	1030.0	904.1	802.8	681.1	536.7	405.1	298.5	211.3	145.7
-20°	1385.3	1192.8	1028.0	904.7	804.7	673.1	528.8	398.1	293.1	208.0	146.1



REPORT NUMBER: P735959 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-4S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1378.9	1193.9	1034.7	903.7	798.2	660.5	516.1	387.7	285.6	203.4	145.9
-25°	1351.9	1188.3	1036.0	906.9	781.3	642.6	502.6	376.9	276.1	197.5	145.0
-27.5°	1319.5	1167.5	1029.7	902.9	763.9	621.8	487.9	367.6	267.8	190.3	143.5
-30°	1283.7	1143.5	1014.7	888.2	740.7	599.1	470.1	355.5	260.2	186.1	141.4
-32.5°	1232.8	1115.6	995.0	857.7	711.8	572.5	448.8	340.3	250.5	183.6	139.6
-35°	1183.4	1081.6	970.8	820.4	678.0	545.4	425.6	322.0	238.9	180.1	137.5
-37.5°	1131.2	1039.5	923.5	777.2	638.3	514.2	402.1	304.5	225.2	175.5	134.7
-40°	1084.0	983.3	857.9	728.2	596.9	478.3	375.5	287.5	216.4	170.0	131.1
-42.5°	1034.1	907.9	788.4	670.6	551.7	443.4	346.8	268.4	209.2	164.6	126.9
-45°	952.2	830.5	714.7	608.5	502.7	404.8	322.9	249.0	200.6	158.8	123.2
-47.5°	865.8	750.5	641.3	543.4	455.2	365.7	295.1	237.6	190.7	152.1	121.1
-50°	775.8	670.1	569.3	482.0	400.9	332.5	268.6	224.7	181.8	144.5	118.5
-52.5°	682.9	590.2	501.2	420.4	356.4	297.0	250.4	209.8	171.9	139.4	115.6
-55°	590.3	513.2	433.9	367.4	312.9	270.6	230.7	195.5	160.9	135.3	112.4
-57.5°	503.8	436.2	375.5	319.6	278.2	245.1	212.0	180.3	153.9	130.5	110.6
-60°	420.3	371.4	320.2	281.7	248.7	220.6	193.4	166.7	147.6	125.8	108.3
-62.5°	351.9	311.4	281.3	249.1	221.2	197.8	175.7	158.0	140.5	122.5	105.6
-65°	298.1	271.9	245.2	220.1	195.9	177.5	165.2	149.0	134.7	118.7	102.6
-67.5°	255.8	234.7	213.8	191.9	176.9	165.4	154.1	141.9	129.3	114.7	99.3
-70°	218.6	199.7	187.1	175.6	163.9	153.7	145.8	135.5	123.6	110.4	95.7
-72.5°	190.8	180.9	171.3	161.2	152.9	145.3	137.9	128.8	117.8	105.8	91.8
-75°	173.7	165.9	158.6	151.0	143.8	136.8	130.0	122.0	111.8	101.0	87.9
-77.5°	161.5	154.8	147.7	140.9	134.6	128.3	122.0	114.9	105.6	96.0	83.8
-80°	149.3	143.4	137.3	131.3	125.5	119.6	114.0	107.7	99.4	90.8	79.5
-82.5°	137.3	131.9	126.9	121.7	116.6	111.5	106.2	100.5	93.0	85.4	75.5
-85°	126.0	121.4	116.7	111.9	107.6	103.3	98.6	93.9	87.6	81.2	72.1
-87.5°	116.4	112.5	108.3	104.1	100.4	96.8	92.6	88.4	82.7	77.1	68.7
-90°	2.7	2.7	3.0	3.3	3.3	3.3	3.7	4.0	4.0	4.0	4.4



REPORT NUMBER: P735959 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	57.4	47.7	38.1	27.4	16.7	11.3	6.0
87.5°	4.9	4.9	4.9	4.9	4.8	5.5	6.0
85°	5.0	5.1	5.2	5.0	4.9	5.6	6.0
82.5°	5.2	5.3	5.4	5.2	5.1	5.7	6.0
80°	5.4	5.5	5.6	5.4	5.2	5.8	6.0
77.5°	5.7	5.8	5.8	5.5	5.3	5.9	6.0
75°	6.1	6.1	6.0	5.7	5.5	6.1	6.0
72.5°	6.5	6.4	6.3	5.9	5.6	6.2	6.0
70°	6.9	6.7	6.5	6.0	5.8	6.3	6.0
67.5°	7.3	7.0	6.8	6.3	5.9	6.5	6.0
65°	7.8	7.4	7.1	6.6	6.1	6.6	6.0
62.5°	8.4	8.0	7.4	6.9	6.3	6.7	6.0
60°	9.0	8.7	7.7	7.1	6.5	6.9	6.0
57.5°	10.3	9.3	8.4	7.4	6.9	7.0	6.0
55°	11.7	10.1	9.1	7.7	7.3	7.1	6.0
52.5°	13.1	10.9	9.9	8.0	7.7	7.3	6.0
50°	14.7	12.4	10.7	8.3	8.1	7.4	6.0
47.5°	16.5	14.0	11.6	8.7	8.6	7.6	6.0
45°	19.5	15.7	12.5	9.4	9.1	7.7	6.0
42.5°	22.6	17.4	13.4	10.1	9.6	7.8	6.0
40°	25.9	19.2	14.6	11.1	10.1	8.0	6.0
37.5°	29.3	21.0	16.0	12.2	10.7	8.1	6.0
35°	32.7	23.5	17.4	13.4	11.2	8.3	6.0
32.5°	36.7	26.2	18.8	14.6	11.8	8.4	6.0
30°	41.8	28.9	20.2	15.8	12.4	8.6	6.0
27.5°	46.7	31.5	22.2	17.0	13.0	8.7	6.0
25°	51.5	34.1	24.1	18.3	13.6	8.8	6.0
22.5°	56.2	36.7	26.0	19.5	14.3	9.0	6.0
20°	60.6	39.8	27.9	20.7	14.9	9.1	6.0
17.5°	65.2	42.8	29.7	21.9	15.5	9.2	6.0
15°	69.8	45.6	31.5	23.0	16.1	9.4	6.0
12.5°	74.0	48.4	33.2	24.2	16.7	9.5	6.0
10°	78.0	51.0	34.9	25.3	17.3	9.6	6.0
7.5°	81.7	53.5	36.4	26.4	17.9	9.7	6.0
5°	85.1	55.9	37.9	27.4	18.4	9.8	6.0
2.5°	88.1	58.1	39.4	28.5	18.9	9.9	6.0
0°	90.8	60.1	40.7	29.4	19.4	10.0	6.0
-2.5°	93.9	62.5	42.6	30.6	20.1	10.4	6.0
-5°	96.7	64.7	44.4	31.8	20.8	10.7	6.0
-7.5°	99.0	66.8	46.1	32.9	21.5	11.1	6.0
-10°	101.0	68.6	47.7	34.0	22.1	11.4	6.0
-12.5°	102.5	70.2	49.2	34.9	22.7	11.7	6.0
-15°	103.6	71.6	50.5	35.8	23.2	12.0	6.0
-17.5°	104.3	72.8	51.7	36.6	23.7	12.3	6.0
-20°	104.8	73.7	52.7	37.3	24.2	12.6	6.0



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

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	105.3	74.4	53.6	38.0	24.6	12.8	6.0
-25°	105.4	75.3	54.4	38.5	24.9	13.0	6.0
-27.5°	104.9	76.1	54.9	38.9	25.2	13.2	6.0
-30°	104.0	76.6	55.4	39.3	25.5	13.4	6.0
-32.5°	102.6	76.8	56.1	39.5	25.7	13.6	6.0
-35°	102.1	76.8	56.7	39.7	25.8	13.8	6.0
-37.5°	101.8	76.8	57.1	39.7	25.9	13.9	6.0
-40°	101.1	77.1	57.4	39.7	25.9	14.0	6.0
-42.5°	100.0	77.3	57.5	39.6	25.9	14.1	6.0
-45°	98.5	77.2	57.7	39.7	25.9	14.1	6.0
-47.5°	96.7	76.9	57.6	39.7	25.8	14.1	6.0
-50°	95.7	76.4	57.4	39.7	25.6	14.1	6.0
-52.5°	94.7	75.7	57.0	39.6	25.4	14.1	6.0
-55°	93.4	74.8	56.4	39.5	25.1	14.1	6.0
-57.5°	91.9	73.6	55.7	39.2	24.8	14.0	6.0
-60°	90.1	72.3	54.8	38.8	24.5	13.9	6.0
-62.5°	88.1	70.8	54.1	38.3	24.1	13.8	6.0
-65°	85.9	69.0	53.2	37.7	23.7	13.7	6.0
-67.5°	83.4	67.3	52.1	37.0	23.2	13.5	6.0
-70°	80.7	65.5	51.0	36.3	22.6	13.4	6.0
-72.5°	77.9	63.5	49.7	35.4	22.0	13.2	6.0
-75°	74.9	61.3	48.2	34.5	21.4	13.0	6.0
-77.5°	71.8	59.0	46.8	33.5	20.7	12.7	6.0
-80°	68.4	56.8	45.2	32.4	20.0	12.5	6.0
-82.5°	65.8	54.7	43.6	31.3	19.2	12.2	6.0
-85°	63.1	52.5	41.9	30.1	18.4	11.9	6.0
-87.5°	60.3	50.2	40.0	28.8	17.6	11.7	6.0
-90°	4.7	4.7	4.7	4.7	4.7	5.4	6.0

(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

