

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: P701416 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-57-70-2S-HEG-S**

Issue Date: 8/15/2023

Test Information

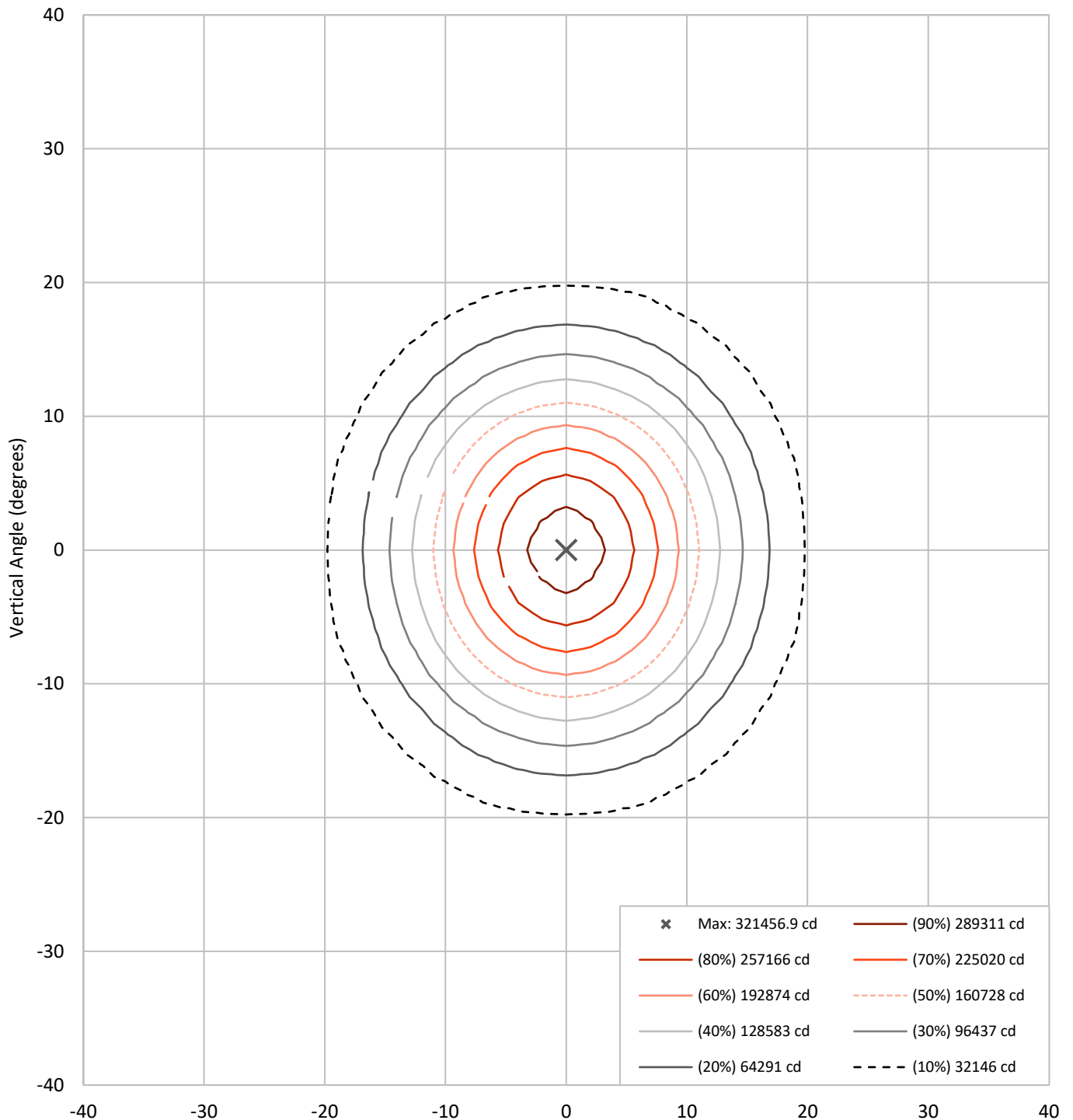
Test Method: LM-79-08
Report Number: P701416 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-2)
Test Lab: INNOVATION CENTER
Issue Date: 8/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320L-57-70-2S-HEG-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 2S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	57904.5 lumens	Max Intensity:	321456.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	166.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	22°H x 22°V	Field Angle (10%):	39.6°H x 39.6°V
Beam Lumens:	25591.9 lumens	Field Lumens:	47530.2 lumens
Beam Efficiency:	44.2%	Field Efficiency:	82.1%
Input Watts (W):	346.9		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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Iso-Candela Plot





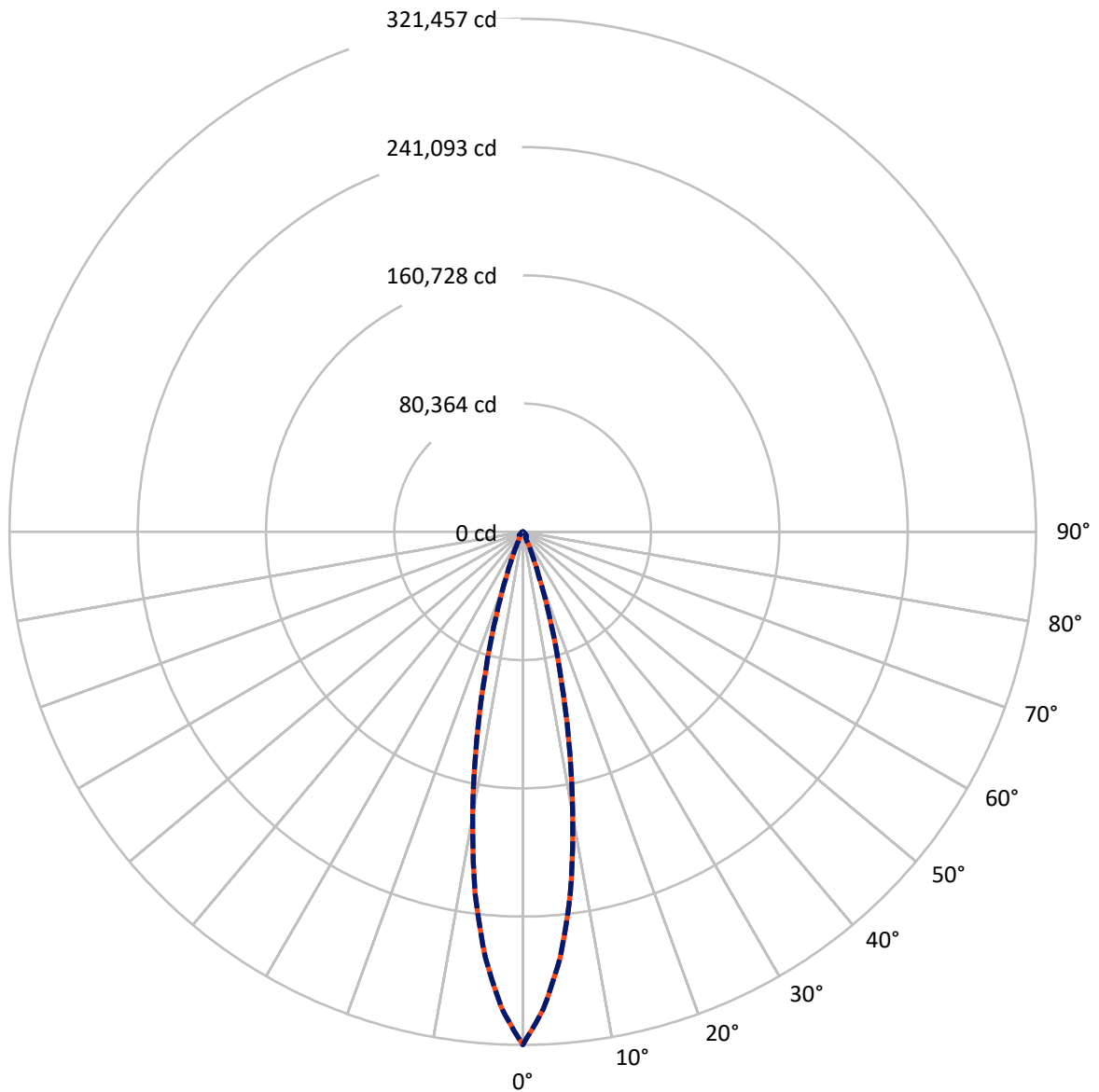
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Lumen Table

90	0.1		0.6		2.0		5.1		6.7		5.1		2.0		0.6		0.1
80	0.3		0.3	1.2	3.6	7.3	11.1	14.4	16.2	16.2	14.4	11.1	7.3	3.6	1.2	0.3	0.3
70	0.3		0.9	4.3	10.3	17.8	24.8	29.5	31.9	31.9	29.5	24.8	17.8	10.3	4.3	0.9	
60	0.7		2.3	8.4	17.9	27.2	44.1	67.6	80.9	80.9	67.6	44.1	27.2	17.9	8.4	2.3	0.7
50	0.7		3.9	12.6	23.6	52.0	89.3	104.7	110.1	110.1	104.7	89.3	52.0	23.6	12.6	3.9	
40	1.5		5.4	15.8	34.8	80.9	100.6	137.5	280.7	280.7	137.5	100.6	80.9	34.8	15.8	5.4	1.5
30	1.5		6.5	17.7	50.1	88.8	129.5	819.0	2426.7	2426.7	819.0	129.5	88.8	50.1	17.7	6.5	
20	1.9		7.1	18.5	58.1	90.5	258.7	2365.1	6651.4	6651.4	2365.1	258.7	90.5	58.1	18.5	7.1	1.9
10	1.9		7.1	18.5	58.1	90.5	258.7	2365.1	6651.4	6651.4	2365.1	258.7	90.5	58.1	18.5	7.1	
0	1.5		6.5	17.7	50.1	88.8	129.5	819.0	2426.7	2426.7	819.0	129.5	88.8	50.1	17.7	6.5	1.5
-10	1.5		5.4	15.8	34.8	80.9	100.6	137.5	280.7	280.7	137.5	100.6	80.9	34.8	15.8	5.4	
-20	0.7		3.9	12.6	23.6	52.0	89.3	104.7	110.1	110.1	104.7	89.3	52.0	23.6	12.6	3.9	0.7
-30	0.7		2.3	8.4	17.9	27.2	44.1	67.6	80.9	80.9	67.6	44.1	27.2	17.9	8.4	2.3	
-40	0.3		0.9	4.3	10.3	17.8	24.8	29.5	31.9	31.9	29.5	24.8	17.8	10.3	4.3	0.9	0.3
-50	0.3		0.3	1.2	3.6	7.3	11.1	14.4	16.2	16.2	14.4	11.1	7.3	3.6	1.2	0.3	
-60	0.1		0.6		2.0		5.1		6.7		5.1		2.0		0.6		0.1
-70	0.1		0.6		2.0		5.1		6.7		5.1		2.0		0.6		0.1
-80	0.1		0.6		2.0		5.1		6.7		5.1		2.0		0.6		0.1
-90	0.1		0.6		2.0		5.1		6.7		5.1		2.0		0.6		0.1

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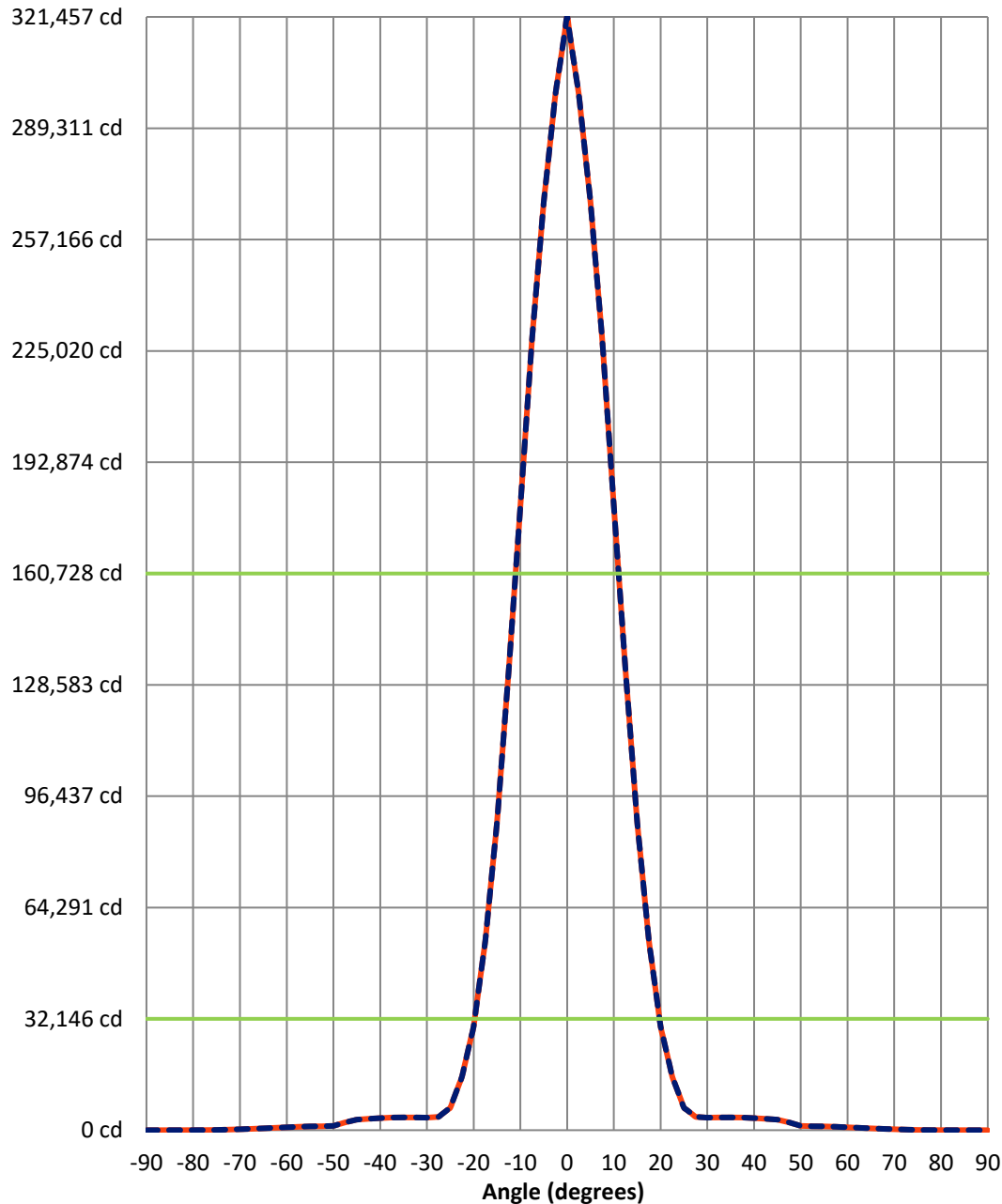
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 22°
 V Angle: 22°
 Lumens: 25591.9
 Efficiency: 44.2%

Field:
 H Angle: 39.6°
 V Angle: 39.6°
 Lumens: 47530.2
 Efficiency: 82.1%

Spill:
 Lumens: 10374.3
 Efficiency: 17.9%

— 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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.3	0.5	0.8	1.0	1.3	1.6	1.8	2.1	2.3	2.5
85°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.6	5.1
82.5°	0.0	0.8	1.6	2.3	3.1	3.9	4.6	5.4	6.1	6.4	6.8
80°	0.0	1.0	2.1	3.1	4.1	5.2	6.1	6.6	7.1	7.6	8.1
77.5°	0.0	1.3	2.6	3.9	5.2	6.2	6.9	7.5	8.1	8.7	9.4
75°	0.0	1.6	3.1	4.6	6.1	6.9	7.6	8.4	9.1	10.1	11.0
72.5°	0.0	1.8	3.6	5.4	6.6	7.5	8.4	9.3	10.4	11.6	12.7
70°	0.0	2.1	4.1	6.1	7.1	8.1	9.1	10.4	11.7	13.1	15.3
67.5°	0.0	2.3	4.6	6.4	7.6	8.7	10.1	11.6	13.1	15.6	18.1
65°	0.0	2.5	5.1	6.8	8.1	9.4	11.0	12.7	15.3	18.1	21.4
62.5°	0.0	2.8	5.5	7.1	8.5	10.2	12.0	14.3	17.4	20.9	26.0
60°	0.0	3.0	6.0	7.5	9.0	10.9	12.9	16.2	19.6	24.9	30.6
57.5°	0.0	3.2	6.2	7.8	9.6	11.7	14.4	18.0	22.8	29.0	42.2
55°	0.0	3.4	6.4	8.2	10.1	12.4	15.9	19.8	26.3	34.9	57.1
52.5°	0.0	3.7	6.6	8.5	10.7	13.2	17.4	22.6	29.7	47.9	71.5
50°	0.0	3.9	6.9	8.8	11.3	14.4	18.8	25.5	35.3	60.5	100.2
47.5°	0.0	4.1	7.1	9.1	11.8	15.5	20.3	28.3	46.1	72.7	129.6
45°	0.0	4.2	7.2	9.5	12.3	16.6	22.6	30.9	56.5	97.9	158.0
42.5°	0.0	4.4	7.4	9.8	12.8	17.7	24.8	37.1	66.5	122.4	191.1
40°	0.0	4.6	7.6	10.2	13.4	18.7	26.9	45.4	79.7	145.9	223.7
37.5°	0.0	4.8	7.8	10.5	14.2	19.7	28.9	53.4	99.5	169.7	254.8
35°	0.0	4.9	7.9	10.8	14.9	21.0	30.8	60.9	118.2	196.1	284.9
32.5°	0.0	5.1	8.1	11.1	15.6	22.5	33.8	67.9	135.9	221.0	314.2
30°	0.0	5.2	8.2	11.4	16.2	23.9	39.4	76.4	152.4	244.3	341.8
27.5°	0.0	5.3	8.3	11.6	16.8	25.1	44.7	89.7	169.1	266.0	367.4
25°	0.0	5.4	8.4	11.9	17.4	26.3	49.5	102.0	186.8	286.7	391.2
22.5°	0.0	5.5	8.5	12.1	17.8	27.4	53.9	113.2	202.9	306.0	418.0
20°	0.0	5.6	8.6	12.3	18.3	28.3	57.8	123.3	217.4	323.4	442.1
17.5°	0.0	5.7	8.7	12.4	18.7	29.2	61.4	132.3	230.3	338.8	463.6
15°	0.0	5.8	8.8	12.6	19.0	29.9	64.4	140.1	241.5	352.3	482.4
12.5°	0.0	5.9	8.9	12.7	19.3	30.6	67.0	146.8	251.1	363.7	498.4
10°	0.0	5.9	8.9	12.8	19.6	31.1	69.2	152.2	258.9	373.1	511.5
7.5°	0.0	5.9	8.9	12.9	19.8	31.5	70.8	156.5	265.1	380.5	521.8
5°	0.0	6.0	9.0	13.0	19.9	31.8	72.0	159.6	269.5	385.8	529.1
2.5°	0.0	6.0	9.0	13.0	20.0	31.9	72.8	161.4	272.1	388.9	533.5
0°	0.0	6.0	9.0	13.0	20.0	32.0	73.0	162.0	273.0	390.0	535.0
-2.5°	0.0	6.0	9.0	13.0	20.0	31.9	72.8	161.4	272.1	388.9	533.5
-5°	0.0	6.0	9.0	13.0	19.9	31.8	72.0	159.6	269.5	385.8	529.1
-7.5°	0.0	5.9	8.9	12.9	19.8	31.5	70.8	156.5	265.1	380.5	521.8
-10°	0.0	5.9	8.9	12.8	19.6	31.1	69.2	152.2	258.9	373.1	511.5
-12.5°	0.0	5.9	8.9	12.7	19.3	30.6	67.0	146.8	251.1	363.7	498.4
-15°	0.0	5.8	8.8	12.6	19.0	29.9	64.4	140.1	241.5	352.3	482.4
-17.5°	0.0	5.7	8.7	12.4	18.7	29.2	61.4	132.3	230.3	338.8	463.6
-20°	0.0	5.6	8.6	12.3	18.3	28.3	57.8	123.3	217.4	323.4	442.1



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 CATALOG NUMBER: EPH-LS-08-0320L-57-70-2S-HEG-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	5.5	8.5	12.1	17.8	27.4	53.9	113.2	202.9	306.0	418.0
-25°	0.0	5.4	8.4	11.9	17.4	26.3	49.5	102.0	186.8	286.7	391.2
-27.5°	0.0	5.3	8.3	11.6	16.8	25.1	44.7	89.7	169.1	266.0	367.4
-30°	0.0	5.2	8.2	11.4	16.2	23.9	39.4	76.4	152.4	244.3	341.8
-32.5°	0.0	5.1	8.1	11.1	15.6	22.5	33.8	67.9	135.9	221.0	314.2
-35°	0.0	4.9	7.9	10.8	14.9	21.0	30.8	60.9	118.2	196.1	284.9
-37.5°	0.0	4.8	7.8	10.5	14.2	19.7	28.9	53.4	99.5	169.7	254.8
-40°	0.0	4.6	7.6	10.2	13.4	18.7	26.9	45.4	79.7	145.9	223.7
-42.5°	0.0	4.4	7.4	9.8	12.8	17.7	24.8	37.1	66.5	122.4	191.1
-45°	0.0	4.2	7.2	9.5	12.3	16.6	22.6	30.9	56.5	97.9	158.0
-47.5°	0.0	4.1	7.1	9.1	11.8	15.5	20.3	28.3	46.1	72.7	129.6
-50°	0.0	3.9	6.9	8.8	11.3	14.4	18.8	25.5	35.3	60.5	100.2
-52.5°	0.0	3.7	6.6	8.5	10.7	13.2	17.4	22.6	29.7	47.9	71.5
-55°	0.0	3.4	6.4	8.2	10.1	12.4	15.9	19.8	26.3	34.9	57.1
-57.5°	0.0	3.2	6.2	7.8	9.6	11.7	14.4	18.0	22.8	29.0	42.2
-60°	0.0	3.0	6.0	7.5	9.0	10.9	12.9	16.2	19.6	24.9	30.6
-62.5°	0.0	2.8	5.5	7.1	8.5	10.2	12.0	14.3	17.4	20.9	26.0
-65°	0.0	2.5	5.1	6.8	8.1	9.4	11.0	12.7	15.3	18.1	21.4
-67.5°	0.0	2.3	4.6	6.4	7.6	8.7	10.1	11.6	13.1	15.6	18.1
-70°	0.0	2.1	4.1	6.1	7.1	8.1	9.1	10.4	11.7	13.1	15.3
-72.5°	0.0	1.8	3.6	5.4	6.6	7.5	8.4	9.3	10.4	11.6	12.7
-75°	0.0	1.6	3.1	4.6	6.1	6.9	7.6	8.4	9.1	10.1	11.0
-77.5°	0.0	1.3	2.6	3.9	5.2	6.2	6.9	7.5	8.1	8.7	9.4
-80°	0.0	1.0	2.1	3.1	4.1	5.2	6.1	6.6	7.1	7.6	8.1
-82.5°	0.0	0.8	1.6	2.3	3.1	3.9	4.6	5.4	6.1	6.4	6.8
-85°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.6	5.1
-87.5°	0.0	0.3	0.5	0.8	1.0	1.3	1.6	1.8	2.1	2.3	2.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: EPH-LS-08-0320L-57-70-2S-HEG-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	3.0	3.2	3.4	3.7	3.9	4.1	4.2	4.4	4.6	4.8
85°	5.5	6.0	6.2	6.4	6.6	6.9	7.1	7.2	7.4	7.6	7.8
82.5°	7.1	7.5	7.8	8.2	8.5	8.8	9.1	9.5	9.8	10.2	10.5
80°	8.5	9.0	9.6	10.1	10.7	11.3	11.8	12.3	12.8	13.4	14.2
77.5°	10.2	10.9	11.7	12.4	13.2	14.4	15.5	16.6	17.7	18.7	19.7
75°	12.0	12.9	14.4	15.9	17.4	18.8	20.3	22.6	24.8	26.9	28.9
72.5°	14.3	16.2	18.0	19.8	22.6	25.5	28.3	30.9	37.1	45.4	53.4
70°	17.4	19.6	22.8	26.3	29.7	35.3	46.1	56.5	66.5	79.7	99.5
67.5°	20.9	24.9	29.0	34.9	47.9	60.5	72.7	97.9	122.4	145.9	169.7
65°	26.0	30.6	42.2	57.1	71.5	100.2	129.6	158.0	191.1	223.7	254.8
62.5°	31.1	45.9	62.6	85.7	120.2	153.7	192.1	231.1	268.7	306.5	342.7
60°	45.9	64.4	93.8	132.3	171.8	217.4	261.6	306.0	349.4	391.2	440.5
57.5°	62.6	93.8	136.4	182.0	232.7	282.6	333.1	382.0	438.5	494.7	549.0
55°	85.7	132.3	182.0	237.8	293.4	349.5	407.4	472.8	536.0	599.3	659.9
52.5°	120.2	171.8	232.7	293.4	355.0	421.1	493.5	565.0	635.8	703.2	766.0
50°	153.7	217.4	282.6	349.5	421.1	500.5	579.6	657.9	731.7	801.9	872.2
47.5°	192.1	261.6	333.1	407.4	493.5	579.6	665.3	746.1	823.7	903.8	981.4
45°	231.1	306.0	382.0	472.8	565.0	657.9	746.1	831.0	919.7	1000.0	1057.8
42.5°	268.7	349.4	438.5	536.0	635.8	731.7	823.7	919.7	1005.6	1069.3	1106.2
40°	306.5	391.2	494.7	599.3	703.2	801.9	903.8	1000.0	1069.3	1107.9	1127.1
37.5°	342.7	440.5	549.0	659.9	766.0	872.2	981.4	1057.8	1106.2	1127.1	1199.7
35°	377.1	487.3	602.2	716.4	825.9	941.6	1035.0	1101.1	1123.6	1193.0	1458.2
32.5°	414.3	531.6	652.6	769.0	886.7	1001.3	1084.5	1116.6	1173.2	1344.8	2039.9
30°	452.1	574.8	699.4	818.5	944.4	1044.8	1106.3	1140.4	1231.8	1866.3	2528.6
27.5°	487.3	615.2	741.9	867.3	994.9	1085.6	1119.3	1192.0	1581.0	2336.9	2956.6
25°	519.9	652.6	781.2	913.4	1030.0	1104.1	1140.2	1240.1	2012.2	2712.7	3138.5
22.5°	550.2	686.7	817.2	955.8	1062.1	1114.3	1181.4	1560.3	2378.9	3049.9	3250.0
20°	578.2	716.4	851.2	992.0	1091.3	1123.6	1218.9	1898.2	2675.3	3145.0	3341.5
17.5°	603.1	742.9	882.5	1015.9	1102.3	1142.7	1292.6	2201.7	2942.0	3230.8	3419.1
15°	624.9	766.0	909.9	1036.9	1109.0	1169.9	1538.9	2425.8	3084.4	3303.2	3487.6
12.5°	643.4	785.7	933.3	1054.8	1114.8	1193.2	1750.0	2612.2	3144.7	3358.0	3536.1
10°	658.7	801.9	952.5	1069.5	1119.5	1212.4	1924.5	2766.5	3194.6	3403.5	3576.5
7.5°	670.6	814.6	967.5	1081.1	1123.2	1227.5	2061.4	2887.6	3233.9	3439.3	3608.4
5°	679.1	823.7	978.3	1089.4	1125.9	1238.3	2159.9	2974.8	3262.2	3465.2	3631.4
2.5°	684.3	829.2	984.8	1094.3	1127.5	1244.8	2219.2	3027.4	3279.3	3480.8	3645.3
0°	686.0	831.0	987.0	1096.0	1128.0	1247.0	2239.0	3045.0	3285.0	3486.0	3650.0
-2.5°	684.3	829.2	984.8	1094.3	1127.5	1244.8	2219.2	3027.4	3279.3	3480.8	3645.3
-5°	679.1	823.7	978.3	1089.4	1125.9	1238.3	2159.9	2974.8	3262.2	3465.2	3631.4
-7.5°	670.6	814.6	967.5	1081.1	1123.2	1227.5	2061.4	2887.6	3233.9	3439.3	3608.4
-10°	658.7	801.9	952.5	1069.5	1119.5	1212.4	1924.5	2766.5	3194.6	3403.5	3576.5
-12.5°	643.4	785.7	933.3	1054.8	1114.8	1193.2	1750.0	2612.2	3144.7	3358.0	3536.1
-15°	624.9	766.0	909.9	1036.9	1109.0	1169.9	1538.9	2425.8	3084.4	3303.2	3487.6
-17.5°	603.1	742.9	882.5	1015.9	1102.3	1142.7	1292.6	2201.7	2942.0	3230.8	3419.1
-20°	578.2	716.4	851.2	992.0	1091.3	1123.6	1218.9	1898.2	2675.3	3145.0	3341.5



REPORT NUMBER: P701416 (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°	550.2	686.7	817.2	955.8	1062.1	1114.3	1181.4	1560.3	2378.9	3049.9	3250.0
-25°	519.9	652.6	781.2	913.4	1030.0	1104.1	1140.2	1240.1	2012.2	2712.7	3138.5
-27.5°	487.3	615.2	741.9	867.3	994.9	1085.6	1119.3	1192.0	1581.0	2336.9	2956.6
-30°	452.1	574.8	699.4	818.5	944.4	1044.8	1106.3	1140.4	1231.8	1866.3	2528.6
-32.5°	414.3	531.6	652.6	769.0	886.7	1001.3	1084.5	1116.6	1173.2	1344.8	2039.9
-35°	377.1	487.3	602.2	716.4	825.9	941.6	1035.0	1101.1	1123.6	1193.0	1458.2
-37.5°	342.7	440.5	549.0	659.9	766.0	872.2	981.4	1057.8	1106.2	1127.1	1199.7
-40°	306.5	391.2	494.7	599.3	703.2	801.9	903.8	1000.0	1069.3	1107.9	1127.1
-42.5°	268.7	349.4	438.5	536.0	635.8	731.7	823.7	919.7	1005.6	1069.3	1106.2
-45°	231.1	306.0	382.0	472.8	565.0	657.9	746.1	831.0	919.7	1000.0	1057.8
-47.5°	192.1	261.6	333.1	407.4	493.5	579.6	665.3	746.1	823.7	903.8	981.4
-50°	153.7	217.4	282.6	349.5	421.1	500.5	579.6	657.9	731.7	801.9	872.2
-52.5°	120.2	171.8	232.7	293.4	355.0	421.1	493.5	565.0	635.8	703.2	766.0
-55°	85.7	132.3	182.0	237.8	293.4	349.5	407.4	472.8	536.0	599.3	659.9
-57.5°	62.6	93.8	136.4	182.0	232.7	282.6	333.1	382.0	438.5	494.7	549.0
-60°	45.9	64.4	93.8	132.3	171.8	217.4	261.6	306.0	349.4	391.2	440.5
-62.5°	31.1	45.9	62.6	85.7	120.2	153.7	192.1	231.1	268.7	306.5	342.7
-65°	26.0	30.6	42.2	57.1	71.5	100.2	129.6	158.0	191.1	223.7	254.8
-67.5°	20.9	24.9	29.0	34.9	47.9	60.5	72.7	97.9	122.4	145.9	169.7
-70°	17.4	19.6	22.8	26.3	29.7	35.3	46.1	56.5	66.5	79.7	99.5
-72.5°	14.3	16.2	18.0	19.8	22.6	25.5	28.3	30.9	37.1	45.4	53.4
-75°	12.0	12.9	14.4	15.9	17.4	18.8	20.3	22.6	24.8	26.9	28.9
-77.5°	10.2	10.9	11.7	12.4	13.2	14.4	15.5	16.6	17.7	18.7	19.7
-80°	8.5	9.0	9.6	10.1	10.7	11.3	11.8	12.3	12.8	13.4	14.2
-82.5°	7.1	7.5	7.8	8.2	8.5	8.8	9.1	9.5	9.8	10.2	10.5
-85°	5.5	6.0	6.2	6.4	6.6	6.9	7.1	7.2	7.4	7.6	7.8
-87.5°	2.8	3.0	3.2	3.4	3.7	3.9	4.1	4.2	4.4	4.6	4.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	5.9
85°	7.9	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	8.9
82.5°	10.8	11.1	11.4	11.6	11.9	12.1	12.3	12.4	12.6	12.7	12.8
80°	14.9	15.6	16.2	16.8	17.4	17.8	18.3	18.7	19.0	19.3	19.6
77.5°	21.0	22.5	23.9	25.1	26.3	27.4	28.3	29.2	29.9	30.6	31.1
75°	30.8	33.8	39.4	44.7	49.5	53.9	57.8	61.4	64.4	67.0	69.2
72.5°	60.9	67.9	76.4	89.7	102.0	113.2	123.3	132.3	140.1	146.8	152.2
70°	118.2	135.9	152.4	169.1	186.8	202.9	217.4	230.3	241.5	251.1	258.9
67.5°	196.1	221.0	244.3	266.0	286.7	306.0	323.4	338.8	352.3	363.7	373.1
65°	284.9	314.2	341.8	367.4	391.2	418.0	442.1	463.6	482.4	498.4	511.5
62.5°	377.1	414.3	452.1	487.3	519.9	550.2	578.2	603.1	624.9	643.4	658.7
60°	487.3	531.6	574.8	615.2	652.6	686.7	716.4	742.9	766.0	785.7	801.9
57.5°	602.2	652.6	699.4	741.9	781.2	817.2	851.2	882.5	909.9	933.3	952.5
55°	716.4	769.0	818.5	867.3	913.4	955.8	992.0	1015.9	1036.9	1054.8	1069.5
52.5°	825.9	886.7	944.4	994.9	1030.0	1062.1	1091.3	1102.3	1109.0	1114.8	1119.5
50°	941.6	1001.3	1044.8	1085.6	1104.1	1114.3	1123.6	1142.7	1169.9	1193.2	1212.4
47.5°	1035.0	1084.5	1106.3	1119.3	1140.2	1181.4	1218.9	1292.6	1538.9	1750.0	1924.5
45°	1101.1	1116.6	1140.4	1192.0	1240.1	1560.3	1898.2	2201.7	2425.8	2612.2	2766.5
42.5°	1123.6	1173.2	1231.8	1581.0	2012.2	2378.9	2675.3	2942.0	3084.4	3144.7	3194.6
40°	1193.0	1344.8	1866.3	2336.9	2712.7	3049.9	3145.0	3230.8	3303.2	3358.0	3403.5
37.5°	1458.2	2039.9	2528.6	2956.6	3138.5	3250.0	3341.5	3419.1	3487.6	3536.1	3576.5
35°	2098.2	2625.5	3062.9	3198.8	3320.1	3420.3	3507.7	3576.1	3637.0	3658.0	3666.8
32.5°	2625.5	3077.8	3229.3	3359.4	3474.0	3563.8	3644.9	3663.8	3677.1	3682.3	3681.1
30°	3062.9	3229.3	3372.7	3498.5	3598.2	3658.4	3676.0	3681.9	3680.2	3673.7	3654.8
27.5°	3198.8	3359.4	3498.5	3609.7	3663.3	3682.9	3680.7	3672.5	3644.6	3620.1	3702.0
25°	3320.1	3474.0	3598.2	3663.3	3682.6	3680.0	3658.0	3624.5	3723.0	3829.6	4586.2
22.5°	3420.3	3563.8	3658.4	3682.9	3680.0	3653.0	3643.1	3787.1	4567.5	5877.4	8218.9
20°	3507.7	3644.9	3676.0	3680.7	3658.0	3643.1	3808.9	5080.4	7153.4	12037.1	16773.4
17.5°	3576.1	3663.8	3681.9	3672.5	3624.5	3787.1	5080.4	8086.8	14016.6	21873.8	29512.1
15°	3637.0	3677.1	3680.2	3644.6	3723.0	4567.5	7153.4	14016.6	23623.3	35575.7	50126.5
12.5°	3658.0	3682.3	3673.7	3620.1	3829.6	5877.4	12037.1	21873.8	35575.7	53660.6	75806.1
10°	3666.8	3681.1	3654.8	3702.0	4586.2	8218.9	16773.4	29512.1	50126.5	75806.1	103528.8
7.5°	3673.8	3680.2	3639.8	3767.8	5402.4	11297.4	22371.0	39934.6	65222.3	96321.7	133119.6
5°	3678.9	3679.5	3628.9	3815.9	6000.6	13567.0	26529.7	47998.5	78058.2	115201.9	158115.2
2.5°	3682.0	3679.1	3622.2	3845.2	6366.1	14959.4	29095.9	53015.2	86140.0	128099.2	174413.2
0°	3683.0	3679.0	3620.0	3855.0	6489.0	15428.9	29963.9	54719.8	88904.7	132687.6	180128.4
-2.5°	3682.0	3679.1	3622.2	3845.2	6366.1	14959.4	29095.9	53015.2	86140.0	128099.2	174413.2
-5°	3678.9	3679.5	3628.9	3815.9	6000.6	13567.0	26529.7	47998.5	78058.2	115201.9	158115.2
-7.5°	3673.8	3680.2	3639.8	3767.8	5402.4	11297.4	22371.0	39934.6	65222.3	96321.7	133119.6
-10°	3666.8	3681.1	3654.8	3702.0	4586.2	8218.9	16773.4	29512.1	50126.5	75806.1	103528.8
-12.5°	3658.0	3682.3	3673.7	3620.1	3829.6	5877.4	12037.1	21873.8	35575.7	53660.6	75806.1
-15°	3637.0	3677.1	3680.2	3644.6	3723.0	4567.5	7153.4	14016.6	23623.3	35575.7	50126.5
-17.5°	3576.1	3663.8	3681.9	3672.5	3624.5	3787.1	5080.4	8086.8	14016.6	21873.8	29512.1
-20°	3507.7	3644.9	3676.0	3680.7	3658.0	3643.1	3808.9	5080.4	7153.4	12037.1	16773.4



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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°	3420.3	3563.8	3658.4	3682.9	3680.0	3653.0	3643.1	3787.1	4567.5	5877.4	8218.9
-25°	3320.1	3474.0	3598.2	3663.3	3682.6	3680.0	3658.0	3624.5	3723.0	3829.6	4586.2
-27.5°	3198.8	3359.4	3498.5	3609.7	3663.3	3682.9	3680.7	3672.5	3644.6	3620.1	3702.0
-30°	3062.9	3229.3	3372.7	3498.5	3598.2	3658.4	3676.0	3681.9	3680.2	3673.7	3654.8
-32.5°	2625.5	3077.8	3229.3	3359.4	3474.0	3563.8	3644.9	3663.8	3677.1	3682.3	3681.1
-35°	2098.2	2625.5	3062.9	3198.8	3320.1	3420.3	3507.7	3576.1	3637.0	3658.0	3666.8
-37.5°	1458.2	2039.9	2528.6	2956.6	3138.5	3250.0	3341.5	3419.1	3487.6	3536.1	3576.5
-40°	1193.0	1344.8	1866.3	2336.9	2712.7	3049.9	3145.0	3230.8	3303.2	3358.0	3403.5
-42.5°	1123.6	1173.2	1231.8	1581.0	2012.2	2378.9	2675.3	2942.0	3084.4	3144.7	3194.6
-45°	1101.1	1116.6	1140.4	1192.0	1240.1	1560.3	1898.2	2201.7	2425.8	2612.2	2766.5
-47.5°	1035.0	1084.5	1106.3	1119.3	1140.2	1181.4	1218.9	1292.6	1538.9	1750.0	1924.5
-50°	941.6	1001.3	1044.8	1085.6	1104.1	1114.3	1123.6	1142.7	1169.9	1193.2	1212.4
-52.5°	825.9	886.7	944.4	994.9	1030.0	1062.1	1091.3	1102.3	1109.0	1114.8	1119.5
-55°	716.4	769.0	818.5	867.3	913.4	955.8	992.0	1015.9	1036.9	1054.8	1069.5
-57.5°	602.2	652.6	699.4	741.9	781.2	817.2	851.2	882.5	909.9	933.3	952.5
-60°	487.3	531.6	574.8	615.2	652.6	686.7	716.4	742.9	766.0	785.7	801.9
-62.5°	377.1	414.3	452.1	487.3	519.9	550.2	578.2	603.1	624.9	643.4	658.7
-65°	284.9	314.2	341.8	367.4	391.2	418.0	442.1	463.6	482.4	498.4	511.5
-67.5°	196.1	221.0	244.3	266.0	286.7	306.0	323.4	338.8	352.3	363.7	373.1
-70°	118.2	135.9	152.4	169.1	186.8	202.9	217.4	230.3	241.5	251.1	258.9
-72.5°	60.9	67.9	76.4	89.7	102.0	113.2	123.3	132.3	140.1	146.8	152.2
-75°	30.8	33.8	39.4	44.7	49.5	53.9	57.8	61.4	64.4	67.0	69.2
-77.5°	21.0	22.5	23.9	25.1	26.3	27.4	28.3	29.2	29.9	30.6	31.1
-80°	14.9	15.6	16.2	16.8	17.4	17.8	18.3	18.7	19.0	19.3	19.6
-82.5°	10.8	11.1	11.4	11.6	11.9	12.1	12.3	12.4	12.6	12.7	12.8
-85°	7.9	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	8.9
-87.5°	4.9	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	5.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P701416 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-70-2S-HEG-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	6.0	6.0	6.0	6.0	6.0	5.9	5.9	5.9	5.8	5.7
85°	8.9	9.0	9.0	9.0	9.0	9.0	8.9	8.9	8.9	8.8	8.7
82.5°	12.9	13.0	13.0	13.0	13.0	13.0	12.9	12.8	12.7	12.6	12.4
80°	19.8	19.9	20.0	20.0	20.0	19.9	19.8	19.6	19.3	19.0	18.7
77.5°	31.5	31.8	31.9	32.0	31.9	31.8	31.5	31.1	30.6	29.9	29.2
75°	70.8	72.0	72.8	73.0	72.8	72.0	70.8	69.2	67.0	64.4	61.4
72.5°	156.5	159.6	161.4	162.0	161.4	159.6	156.5	152.2	146.8	140.1	132.3
70°	265.1	269.5	272.1	273.0	272.1	269.5	265.1	258.9	251.1	241.5	230.3
67.5°	380.5	385.8	388.9	390.0	388.9	385.8	380.5	373.1	363.7	352.3	338.8
65°	521.8	529.1	533.5	535.0	533.5	529.1	521.8	511.5	498.4	482.4	463.6
62.5°	670.6	679.1	684.3	686.0	684.3	679.1	670.6	658.7	643.4	624.9	603.1
60°	814.6	823.7	829.2	831.0	829.2	823.7	814.6	801.9	785.7	766.0	742.9
57.5°	967.5	978.3	984.8	987.0	984.8	978.3	967.5	952.5	933.3	909.9	882.5
55°	1081.1	1089.4	1094.3	1096.0	1094.3	1089.4	1081.1	1069.5	1054.8	1036.9	1015.9
52.5°	1123.2	1125.9	1127.5	1128.0	1127.5	1125.9	1123.2	1119.5	1114.8	1109.0	1102.3
50°	1227.5	1238.3	1244.8	1247.0	1244.8	1238.3	1227.5	1212.4	1193.2	1169.9	1142.7
47.5°	2061.4	2159.9	2219.2	2239.0	2219.2	2159.9	2061.4	1924.5	1750.0	1538.9	1292.6
45°	2887.6	2974.8	3027.4	3045.0	3027.4	2974.8	2887.6	2766.5	2612.2	2425.8	2201.7
42.5°	3233.9	3262.2	3279.3	3285.0	3279.3	3262.2	3233.9	3194.6	3144.7	3084.4	2942.0
40°	3439.3	3465.2	3480.8	3486.0	3480.8	3465.2	3439.3	3403.5	3358.0	3303.2	3230.8
37.5°	3608.4	3631.4	3645.3	3650.0	3645.3	3631.4	3608.4	3576.5	3536.1	3487.6	3419.1
35°	3673.8	3678.9	3682.0	3683.0	3682.0	3678.9	3673.8	3666.8	3658.0	3637.0	3576.1
32.5°	3680.2	3679.5	3679.1	3679.0	3679.1	3679.5	3680.2	3681.1	3682.3	3677.1	3663.8
30°	3639.8	3628.9	3622.2	3620.0	3622.2	3628.9	3639.8	3654.8	3673.7	3680.2	3681.9
27.5°	3767.8	3815.9	3845.2	3855.0	3845.2	3815.9	3767.8	3702.0	3620.1	3644.6	3672.5
25°	5402.4	6000.6	6366.1	6489.0	6366.1	6000.6	5402.4	4586.2	3829.6	3723.0	3624.5
22.5°	11297.4	13567.0	14959.4	15428.9	14959.4	13567.0	11297.4	8218.9	5877.4	4567.5	3787.1
20°	22371.0	26529.7	29095.9	29963.9	29095.9	26529.7	22371.0	16773.4	12037.1	7153.4	5080.4
17.5°	39934.6	47998.5	53015.2	54719.8	53015.2	47998.5	39934.6	29512.1	21873.8	14016.6	8086.8
15°	65222.3	78058.2	86140.0	88904.7	86140.0	78058.2	65222.3	50126.5	35575.7	23623.3	14016.6
12.5°	96321.7	115201.9	128099.2	132687.6	128099.2	115201.9	96321.7	75806.1	53660.6	35575.7	21873.8
10°	133119.6	158115.2	174413.2	180128.4	174413.2	158115.2	133119.6	103528.8	75806.1	50126.5	29512.1
7.5°	169034.7	198710.2	220599.5	228521.7	220599.5	198710.2	169034.7	133119.6	96321.7	65222.3	39934.6
5°	198710.2	237032.9	260530.4	267958.0	260530.4	237032.9	198710.2	158115.2	115201.9	78058.2	47998.5
2.5°	220599.5	260530.4	285930.9	299101.5	285930.9	260530.4	220599.5	174413.2	128099.2	86140.0	53015.2
0°	228521.7	267958.0	299101.5	321456.9	299101.5	267958.0	228521.7	180128.4	132687.6	88904.7	54719.8
-2.5°	220599.5	260530.4	285930.9	299101.5	285930.9	260530.4	220599.5	174413.2	128099.2	86140.0	53015.2
-5°	198710.2	237032.9	260530.4	267958.0	260530.4	237032.9	198710.2	158115.2	115201.9	78058.2	47998.5
-7.5°	169034.7	198710.2	220599.5	228521.7	220599.5	198710.2	169034.7	133119.6	96321.7	65222.3	39934.6
-10°	133119.6	158115.2	174413.2	180128.4	174413.2	158115.2	133119.6	103528.8	75806.1	50126.5	29512.1
-12.5°	96321.7	115201.9	128099.2	132687.6	128099.2	115201.9	96321.7	75806.1	53660.6	35575.7	21873.8
-15°	65222.3	78058.2	86140.0	88904.7	86140.0	78058.2	65222.3	50126.5	35575.7	23623.3	14016.6
-17.5°	39934.6	47998.5	53015.2	54719.8	53015.2	47998.5	39934.6	29512.1	21873.8	14016.6	8086.8
-20°	22371.0	26529.7	29095.9	29963.9	29095.9	26529.7	22371.0	16773.4	12037.1	7153.4	5080.4



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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°	11297.4	13567.0	14959.4	15428.9	14959.4	13567.0	11297.4	8218.9	5877.4	4567.5	3787.1
-25°	5402.4	6000.6	6366.1	6489.0	6366.1	6000.6	5402.4	4586.2	3829.6	3723.0	3624.5
-27.5°	3767.8	3815.9	3845.2	3855.0	3845.2	3815.9	3767.8	3702.0	3620.1	3644.6	3672.5
-30°	3639.8	3628.9	3622.2	3620.0	3622.2	3628.9	3639.8	3654.8	3673.7	3680.2	3681.9
-32.5°	3680.2	3679.5	3679.1	3679.0	3679.1	3679.5	3680.2	3681.1	3682.3	3677.1	3663.8
-35°	3673.8	3678.9	3682.0	3683.0	3682.0	3678.9	3673.8	3666.8	3658.0	3637.0	3576.1
-37.5°	3608.4	3631.4	3645.3	3650.0	3645.3	3631.4	3608.4	3576.5	3536.1	3487.6	3419.1
-40°	3439.3	3465.2	3480.8	3486.0	3480.8	3465.2	3439.3	3403.5	3358.0	3303.2	3230.8
-42.5°	3233.9	3262.2	3279.3	3285.0	3279.3	3262.2	3233.9	3194.6	3144.7	3084.4	2942.0
-45°	2887.6	2974.8	3027.4	3045.0	3027.4	2974.8	2887.6	2766.5	2612.2	2425.8	2201.7
-47.5°	2061.4	2159.9	2219.2	2239.0	2219.2	2159.9	2061.4	1924.5	1750.0	1538.9	1292.6
-50°	1227.5	1238.3	1244.8	1247.0	1244.8	1238.3	1227.5	1212.4	1193.2	1169.9	1142.7
-52.5°	1123.2	1125.9	1127.5	1128.0	1127.5	1125.9	1123.2	1119.5	1114.8	1109.0	1102.3
-55°	1081.1	1089.4	1094.3	1096.0	1094.3	1089.4	1081.1	1069.5	1054.8	1036.9	1015.9
-57.5°	967.5	978.3	984.8	987.0	984.8	978.3	967.5	952.5	933.3	909.9	882.5
-60°	814.6	823.7	829.2	831.0	829.2	823.7	814.6	801.9	785.7	766.0	742.9
-62.5°	670.6	679.1	684.3	686.0	684.3	679.1	670.6	658.7	643.4	624.9	603.1
-65°	521.8	529.1	533.5	535.0	533.5	529.1	521.8	511.5	498.4	482.4	463.6
-67.5°	380.5	385.8	388.9	390.0	388.9	385.8	380.5	373.1	363.7	352.3	338.8
-70°	265.1	269.5	272.1	273.0	272.1	269.5	265.1	258.9	251.1	241.5	230.3
-72.5°	156.5	159.6	161.4	162.0	161.4	159.6	156.5	152.2	146.8	140.1	132.3
-75°	70.8	72.0	72.8	73.0	72.8	72.0	70.8	69.2	67.0	64.4	61.4
-77.5°	31.5	31.8	31.9	32.0	31.9	31.8	31.5	31.1	30.6	29.9	29.2
-80°	19.8	19.9	20.0	20.0	19.9	19.8	19.8	19.6	19.3	19.0	18.7
-82.5°	12.9	13.0	13.0	13.0	13.0	13.0	12.9	12.8	12.7	12.6	12.4
-85°	8.9	9.0	9.0	9.0	9.0	9.0	8.9	8.9	8.9	8.8	8.7
-87.5°	5.9	6.0	6.0	6.0	6.0	6.0	5.9	5.9	5.9	5.8	5.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	5.5	5.4	5.3	5.2	5.1	4.9	4.8	4.6	4.4	4.2
85°	8.6	8.5	8.4	8.3	8.2	8.1	7.9	7.8	7.6	7.4	7.2
82.5°	12.3	12.1	11.9	11.6	11.4	11.1	10.8	10.5	10.2	9.8	9.5
80°	18.3	17.8	17.4	16.8	16.2	15.6	14.9	14.2	13.4	12.8	12.3
77.5°	28.3	27.4	26.3	25.1	23.9	22.5	21.0	19.7	18.7	17.7	16.6
75°	57.8	53.9	49.5	44.7	39.4	33.8	30.8	28.9	26.9	24.8	22.6
72.5°	123.3	113.2	102.0	89.7	76.4	67.9	60.9	53.4	45.4	37.1	30.9
70°	217.4	202.9	186.8	169.1	152.4	135.9	118.2	99.5	79.7	66.5	56.5
67.5°	323.4	306.0	286.7	266.0	244.3	221.0	196.1	169.7	145.9	122.4	97.9
65°	442.1	418.0	391.2	367.4	341.8	314.2	284.9	254.8	223.7	191.1	158.0
62.5°	578.2	550.2	519.9	487.3	452.1	414.3	377.1	342.7	306.5	268.7	231.1
60°	716.4	686.7	652.6	615.2	574.8	531.6	487.3	440.5	391.2	349.4	306.0
57.5°	851.2	817.2	781.2	741.9	699.4	652.6	602.2	549.0	494.7	438.5	382.0
55°	992.0	955.8	913.4	867.3	818.5	769.0	716.4	659.9	599.3	536.0	472.8
52.5°	1091.3	1062.1	1030.0	994.9	944.4	886.7	825.9	766.0	703.2	635.8	565.0
50°	1123.6	1114.3	1104.1	1085.6	1044.8	1001.3	941.6	872.2	801.9	731.7	657.9
47.5°	1218.9	1181.4	1140.2	1119.3	1106.3	1084.5	1035.0	981.4	903.8	823.7	746.1
45°	1898.2	1560.3	1240.1	1192.0	1140.4	1116.6	1101.1	1057.8	1000.0	919.7	831.0
42.5°	2675.3	2378.9	2012.2	1581.0	1231.8	1173.2	1123.6	1106.2	1069.3	1005.6	919.7
40°	3145.0	3049.9	2712.7	2336.9	1866.3	1344.8	1193.0	1127.1	1107.9	1069.3	1000.0
37.5°	3341.5	3250.0	3138.5	2956.6	2528.6	2039.9	1458.2	1199.7	1127.1	1106.2	1057.8
35°	3507.7	3420.3	3320.1	3198.8	3062.9	2625.5	2098.2	1458.2	1193.0	1123.6	1101.1
32.5°	3644.9	3563.8	3474.0	3359.4	3229.3	3077.8	2625.5	2039.9	1344.8	1173.2	1116.6
30°	3676.0	3658.4	3598.2	3498.5	3372.7	3229.3	3062.9	2528.6	1866.3	1231.8	1140.4
27.5°	3680.7	3682.9	3663.3	3609.7	3498.5	3359.4	3198.8	2956.6	2336.9	1581.0	1192.0
25°	3658.0	3680.0	3682.6	3663.3	3598.2	3474.0	3320.1	3138.5	2712.7	2012.2	1240.1
22.5°	3643.1	3653.0	3680.0	3682.9	3658.4	3563.8	3420.3	3250.0	3049.9	2378.9	1560.3
20°	3808.9	3643.1	3658.0	3680.7	3676.0	3644.9	3507.7	3341.5	3145.0	2675.3	1898.2
17.5°	5080.4	3787.1	3624.5	3672.5	3681.9	3663.8	3576.1	3419.1	3230.8	2942.0	2201.7
15°	7153.4	4567.5	3723.0	3644.6	3680.2	3677.1	3637.0	3487.6	3303.2	3084.4	2425.8
12.5°	12037.1	5877.4	3829.6	3620.1	3673.7	3682.3	3658.0	3536.1	3358.0	3144.7	2612.2
10°	16773.4	8218.9	4586.2	3702.0	3654.8	3681.1	3666.8	3576.5	3403.5	3194.6	2766.5
7.5°	22371.0	11297.4	5402.4	3767.8	3639.8	3680.2	3673.8	3608.4	3439.3	3233.9	2887.6
5°	26529.7	13567.0	6000.6	3815.9	3628.9	3679.5	3678.9	3631.4	3465.2	3262.2	2974.8
2.5°	29095.9	14959.4	6366.1	3845.2	3622.2	3679.1	3682.0	3645.3	3480.8	3279.3	3027.4
0°	29963.9	15428.9	6489.0	3855.0	3620.0	3679.0	3683.0	3650.0	3486.0	3285.0	3045.0
-2.5°	29095.9	14959.4	6366.1	3845.2	3622.2	3679.1	3682.0	3645.3	3480.8	3279.3	3027.4
-5°	26529.7	13567.0	6000.6	3815.9	3628.9	3679.5	3678.9	3631.4	3465.2	3262.2	2974.8
-7.5°	22371.0	11297.4	5402.4	3767.8	3639.8	3680.2	3673.8	3608.4	3439.3	3233.9	2887.6
-10°	16773.4	8218.9	4586.2	3702.0	3654.8	3681.1	3666.8	3576.5	3403.5	3194.6	2766.5
-12.5°	12037.1	5877.4	3829.6	3620.1	3673.7	3682.3	3658.0	3536.1	3358.0	3144.7	2612.2
-15°	7153.4	4567.5	3723.0	3644.6	3680.2	3677.1	3637.0	3487.6	3303.2	3084.4	2425.8
-17.5°	5080.4	3787.1	3624.5	3672.5	3681.9	3663.8	3576.1	3419.1	3230.8	2942.0	2201.7
-20°	3808.9	3643.1	3658.0	3680.7	3676.0	3644.9	3507.7	3341.5	3145.0	2675.3	1898.2



REPORT NUMBER: P701416 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	3643.1	3653.0	3680.0	3682.9	3658.4	3563.8	3420.3	3250.0	3049.9	2378.9	1560.3
-25°	3658.0	3680.0	3682.6	3663.3	3598.2	3474.0	3320.1	3138.5	2712.7	2012.2	1240.1
-27.5°	3680.7	3682.9	3663.3	3609.7	3498.5	3359.4	3198.8	2956.6	2336.9	1581.0	1192.0
-30°	3676.0	3658.4	3598.2	3498.5	3372.7	3229.3	3062.9	2528.6	1866.3	1231.8	1140.4
-32.5°	3644.9	3563.8	3474.0	3359.4	3229.3	3077.8	2625.5	2039.9	1344.8	1173.2	1116.6
-35°	3507.7	3420.3	3320.1	3198.8	3062.9	2625.5	2098.2	1458.2	1193.0	1123.6	1101.1
-37.5°	3341.5	3250.0	3138.5	2956.6	2528.6	2039.9	1458.2	1199.7	1127.1	1106.2	1057.8
-40°	3145.0	3049.9	2712.7	2336.9	1866.3	1344.8	1193.0	1127.1	1107.9	1069.3	1000.0
-42.5°	2675.3	2378.9	2012.2	1581.0	1231.8	1173.2	1123.6	1106.2	1069.3	1005.6	919.7
-45°	1898.2	1560.3	1240.1	1192.0	1140.4	1116.6	1101.1	1057.8	1000.0	919.7	831.0
-47.5°	1218.9	1181.4	1140.2	1119.3	1106.3	1084.5	1035.0	981.4	903.8	823.7	746.1
-50°	1123.6	1114.3	1104.1	1085.6	1044.8	1001.3	941.6	872.2	801.9	731.7	657.9
-52.5°	1091.3	1062.1	1030.0	994.9	944.4	886.7	825.9	766.0	703.2	635.8	565.0
-55°	992.0	955.8	913.4	867.3	818.5	769.0	716.4	659.9	599.3	536.0	472.8
-57.5°	851.2	817.2	781.2	741.9	699.4	652.6	602.2	549.0	494.7	438.5	382.0
-60°	716.4	686.7	652.6	615.2	574.8	531.6	487.3	440.5	391.2	349.4	306.0
-62.5°	578.2	550.2	519.9	487.3	452.1	414.3	377.1	342.7	306.5	268.7	231.1
-65°	442.1	418.0	391.2	367.4	341.8	314.2	284.9	254.8	223.7	191.1	158.0
-67.5°	323.4	306.0	286.7	266.0	244.3	221.0	196.1	169.7	145.9	122.4	97.9
-70°	217.4	202.9	186.8	169.1	152.4	135.9	118.2	99.5	79.7	66.5	56.5
-72.5°	123.3	113.2	102.0	89.7	76.4	67.9	60.9	53.4	45.4	37.1	30.9
-75°	57.8	53.9	49.5	44.7	39.4	33.8	30.8	28.9	26.9	24.8	22.6
-77.5°	28.3	27.4	26.3	25.1	23.9	22.5	21.0	19.7	18.7	17.7	16.6
-80°	18.3	17.8	17.4	16.8	16.2	15.6	14.9	14.2	13.4	12.8	12.3
-82.5°	12.3	12.1	11.9	11.6	11.4	11.1	10.8	10.5	10.2	9.8	9.5
-85°	8.6	8.5	8.4	8.3	8.2	8.1	7.9	7.8	7.6	7.4	7.2
-87.5°	5.6	5.5	5.4	5.3	5.2	5.1	4.9	4.8	4.6	4.4	4.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: EPH-LS-08-0320L-57-70-2S-HEG-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	3.9	3.7	3.4	3.2	3.0	2.8	2.5	2.3	2.1	1.8
85°	7.1	6.9	6.6	6.4	6.2	6.0	5.5	5.1	4.6	4.1	3.6
82.5°	9.1	8.8	8.5	8.2	7.8	7.5	7.1	6.8	6.4	6.1	5.4
80°	11.8	11.3	10.7	10.1	9.6	9.0	8.5	8.1	7.6	7.1	6.6
77.5°	15.5	14.4	13.2	12.4	11.7	10.9	10.2	9.4	8.7	8.1	7.5
75°	20.3	18.8	17.4	15.9	14.4	12.9	12.0	11.0	10.1	9.1	8.4
72.5°	28.3	25.5	22.6	19.8	18.0	16.2	14.3	12.7	11.6	10.4	9.3
70°	46.1	35.3	29.7	26.3	22.8	19.6	17.4	15.3	13.1	11.7	10.4
67.5°	72.7	60.5	47.9	34.9	29.0	24.9	20.9	18.1	15.6	13.1	11.6
65°	129.6	100.2	71.5	57.1	42.2	30.6	26.0	21.4	18.1	15.3	12.7
62.5°	192.1	153.7	120.2	85.7	62.6	45.9	31.1	26.0	20.9	17.4	14.3
60°	261.6	217.4	171.8	132.3	93.8	64.4	45.9	30.6	24.9	19.6	16.2
57.5°	333.1	282.6	232.7	182.0	136.4	93.8	62.6	42.2	29.0	22.8	18.0
55°	407.4	349.5	293.4	237.8	182.0	132.3	85.7	57.1	34.9	26.3	19.8
52.5°	493.5	421.1	355.0	293.4	232.7	171.8	120.2	71.5	47.9	29.7	22.6
50°	579.6	500.5	421.1	349.5	282.6	217.4	153.7	100.2	60.5	35.3	25.5
47.5°	665.3	579.6	493.5	407.4	333.1	261.6	192.1	129.6	72.7	46.1	28.3
45°	746.1	657.9	565.0	472.8	382.0	306.0	231.1	158.0	97.9	56.5	30.9
42.5°	823.7	731.7	635.8	536.0	438.5	349.4	268.7	191.1	122.4	66.5	37.1
40°	903.8	801.9	703.2	599.3	494.7	391.2	306.5	223.7	145.9	79.7	45.4
37.5°	981.4	872.2	766.0	659.9	549.0	440.5	342.7	254.8	169.7	99.5	53.4
35°	1035.0	941.6	825.9	716.4	602.2	487.3	377.1	284.9	196.1	118.2	60.9
32.5°	1084.5	1001.3	886.7	769.0	652.6	531.6	414.3	314.2	221.0	135.9	67.9
30°	1106.3	1044.8	944.4	818.5	699.4	574.8	452.1	341.8	244.3	152.4	76.4
27.5°	1119.3	1085.6	994.9	867.3	741.9	615.2	487.3	367.4	266.0	169.1	89.7
25°	1140.2	1104.1	1030.0	913.4	781.2	652.6	519.9	391.2	286.7	186.8	102.0
22.5°	1181.4	1114.3	1062.1	955.8	817.2	686.7	550.2	418.0	306.0	202.9	113.2
20°	1218.9	1123.6	1091.3	992.0	851.2	716.4	578.2	442.1	323.4	217.4	123.3
17.5°	1292.6	1142.7	1102.3	1015.9	882.5	742.9	603.1	463.6	338.8	230.3	132.3
15°	1538.9	1169.9	1109.0	1036.9	909.9	766.0	624.9	482.4	352.3	241.5	140.1
12.5°	1750.0	1193.2	1114.8	1054.8	933.3	785.7	643.4	498.4	363.7	251.1	146.8
10°	1924.5	1212.4	1119.5	1069.5	952.5	801.9	658.7	511.5	373.1	258.9	152.2
7.5°	2061.4	1227.5	1123.2	1081.1	967.5	814.6	670.6	521.8	380.5	265.1	156.5
5°	2159.9	1238.3	1125.9	1089.4	978.3	823.7	679.1	529.1	385.8	269.5	159.6
2.5°	2219.2	1244.8	1127.5	1094.3	984.8	829.2	684.3	533.5	388.9	272.1	161.4
0°	2239.0	1247.0	1128.0	1096.0	987.0	831.0	686.0	535.0	390.0	273.0	162.0
-2.5°	2219.2	1244.8	1127.5	1094.3	984.8	829.2	684.3	533.5	388.9	272.1	161.4
-5°	2159.9	1238.3	1125.9	1089.4	978.3	823.7	679.1	529.1	385.8	269.5	159.6
-7.5°	2061.4	1227.5	1123.2	1081.1	967.5	814.6	670.6	521.8	380.5	265.1	156.5
-10°	1924.5	1212.4	1119.5	1069.5	952.5	801.9	658.7	511.5	373.1	258.9	152.2
-12.5°	1750.0	1193.2	1114.8	1054.8	933.3	785.7	643.4	498.4	363.7	251.1	146.8
-15°	1538.9	1169.9	1109.0	1036.9	909.9	766.0	624.9	482.4	352.3	241.5	140.1
-17.5°	1292.6	1142.7	1102.3	1015.9	882.5	742.9	603.1	463.6	338.8	230.3	132.3
-20°	1218.9	1123.6	1091.3	992.0	851.2	716.4	578.2	442.1	323.4	217.4	123.3



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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°	1181.4	1114.3	1062.1	955.8	817.2	686.7	550.2	418.0	306.0	202.9	113.2
-25°	1140.2	1104.1	1030.0	913.4	781.2	652.6	519.9	391.2	286.7	186.8	102.0
-27.5°	1119.3	1085.6	994.9	867.3	741.9	615.2	487.3	367.4	266.0	169.1	89.7
-30°	1106.3	1044.8	944.4	818.5	699.4	574.8	452.1	341.8	244.3	152.4	76.4
-32.5°	1084.5	1001.3	886.7	769.0	652.6	531.6	414.3	314.2	221.0	135.9	67.9
-35°	1035.0	941.6	825.9	716.4	602.2	487.3	377.1	284.9	196.1	118.2	60.9
-37.5°	981.4	872.2	766.0	659.9	549.0	440.5	342.7	254.8	169.7	99.5	53.4
-40°	903.8	801.9	703.2	599.3	494.7	391.2	306.5	223.7	145.9	79.7	45.4
-42.5°	823.7	731.7	635.8	536.0	438.5	349.4	268.7	191.1	122.4	66.5	37.1
-45°	746.1	657.9	565.0	472.8	382.0	306.0	231.1	158.0	97.9	56.5	30.9
-47.5°	665.3	579.6	493.5	407.4	333.1	261.6	192.1	129.6	72.7	46.1	28.3
-50°	579.6	500.5	421.1	349.5	282.6	217.4	153.7	100.2	60.5	35.3	25.5
-52.5°	493.5	421.1	355.0	293.4	232.7	171.8	120.2	71.5	47.9	29.7	22.6
-55°	407.4	349.5	293.4	237.8	182.0	132.3	85.7	57.1	34.9	26.3	19.8
-57.5°	333.1	282.6	232.7	182.0	136.4	93.8	62.6	42.2	29.0	22.8	18.0
-60°	261.6	217.4	171.8	132.3	93.8	64.4	45.9	30.6	24.9	19.6	16.2
-62.5°	192.1	153.7	120.2	85.7	62.6	45.9	31.1	26.0	20.9	17.4	14.3
-65°	129.6	100.2	71.5	57.1	42.2	30.6	26.0	21.4	18.1	15.3	12.7
-67.5°	72.7	60.5	47.9	34.9	29.0	24.9	20.9	18.1	15.6	13.1	11.6
-70°	46.1	35.3	29.7	26.3	22.8	19.6	17.4	15.3	13.1	11.7	10.4
-72.5°	28.3	25.5	22.6	19.8	18.0	16.2	14.3	12.7	11.6	10.4	9.3
-75°	20.3	18.8	17.4	15.9	14.4	12.9	12.0	11.0	10.1	9.1	8.4
-77.5°	15.5	14.4	13.2	12.4	11.7	10.9	10.2	9.4	8.7	8.1	7.5
-80°	11.8	11.3	10.7	10.1	9.6	9.0	8.5	8.1	7.6	7.1	6.6
-82.5°	9.1	8.8	8.5	8.2	7.8	7.5	7.1	6.8	6.4	6.1	5.4
-85°	7.1	6.9	6.6	6.4	6.2	6.0	5.5	5.1	4.6	4.1	3.6
-87.5°	4.1	3.9	3.7	3.4	3.2	3.0	2.8	2.5	2.3	2.1	1.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	1.3	1.0	0.8	0.5	0.3	0.0
85°	3.1	2.6	2.1	1.6	1.0	0.5	0.0
82.5°	4.6	3.9	3.1	2.3	1.6	0.8	0.0
80°	6.1	5.2	4.1	3.1	2.1	1.0	0.0
77.5°	6.9	6.2	5.2	3.9	2.6	1.3	0.0
75°	7.6	6.9	6.1	4.6	3.1	1.6	0.0
72.5°	8.4	7.5	6.6	5.4	3.6	1.8	0.0
70°	9.1	8.1	7.1	6.1	4.1	2.1	0.0
67.5°	10.1	8.7	7.6	6.4	4.6	2.3	0.0
65°	11.0	9.4	8.1	6.8	5.1	2.5	0.0
62.5°	12.0	10.2	8.5	7.1	5.5	2.8	0.0
60°	12.9	10.9	9.0	7.5	6.0	3.0	0.0
57.5°	14.4	11.7	9.6	7.8	6.2	3.2	0.0
55°	15.9	12.4	10.1	8.2	6.4	3.4	0.0
52.5°	17.4	13.2	10.7	8.5	6.6	3.7	0.0
50°	18.8	14.4	11.3	8.8	6.9	3.9	0.0
47.5°	20.3	15.5	11.8	9.1	7.1	4.1	0.0
45°	22.6	16.6	12.3	9.5	7.2	4.2	0.0
42.5°	24.8	17.7	12.8	9.8	7.4	4.4	0.0
40°	26.9	18.7	13.4	10.2	7.6	4.6	0.0
37.5°	28.9	19.7	14.2	10.5	7.8	4.8	0.0
35°	30.8	21.0	14.9	10.8	7.9	4.9	0.0
32.5°	33.8	22.5	15.6	11.1	8.1	5.1	0.0
30°	39.4	23.9	16.2	11.4	8.2	5.2	0.0
27.5°	44.7	25.1	16.8	11.6	8.3	5.3	0.0
25°	49.5	26.3	17.4	11.9	8.4	5.4	0.0
22.5°	53.9	27.4	17.8	12.1	8.5	5.5	0.0
20°	57.8	28.3	18.3	12.3	8.6	5.6	0.0
17.5°	61.4	29.2	18.7	12.4	8.7	5.7	0.0
15°	64.4	29.9	19.0	12.6	8.8	5.8	0.0
12.5°	67.0	30.6	19.3	12.7	8.9	5.9	0.0
10°	69.2	31.1	19.6	12.8	8.9	5.9	0.0
7.5°	70.8	31.5	19.8	12.9	8.9	5.9	0.0
5°	72.0	31.8	19.9	13.0	9.0	6.0	0.0
2.5°	72.8	31.9	20.0	13.0	9.0	6.0	0.0
0°	73.0	32.0	20.0	13.0	9.0	6.0	0.0
-2.5°	72.8	31.9	20.0	13.0	9.0	6.0	0.0
-5°	72.0	31.8	19.9	13.0	9.0	6.0	0.0
-7.5°	70.8	31.5	19.8	12.9	8.9	5.9	0.0
-10°	69.2	31.1	19.6	12.8	8.9	5.9	0.0
-12.5°	67.0	30.6	19.3	12.7	8.9	5.9	0.0
-15°	64.4	29.9	19.0	12.6	8.8	5.8	0.0
-17.5°	61.4	29.2	18.7	12.4	8.7	5.7	0.0
-20°	57.8	28.3	18.3	12.3	8.6	5.6	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	53.9	27.4	17.8	12.1	8.5	5.5	0.0
-25°	49.5	26.3	17.4	11.9	8.4	5.4	0.0
-27.5°	44.7	25.1	16.8	11.6	8.3	5.3	0.0
-30°	39.4	23.9	16.2	11.4	8.2	5.2	0.0
-32.5°	33.8	22.5	15.6	11.1	8.1	5.1	0.0
-35°	30.8	21.0	14.9	10.8	7.9	4.9	0.0
-37.5°	28.9	19.7	14.2	10.5	7.8	4.8	0.0
-40°	26.9	18.7	13.4	10.2	7.6	4.6	0.0
-42.5°	24.8	17.7	12.8	9.8	7.4	4.4	0.0
-45°	22.6	16.6	12.3	9.5	7.2	4.2	0.0
-47.5°	20.3	15.5	11.8	9.1	7.1	4.1	0.0
-50°	18.8	14.4	11.3	8.8	6.9	3.9	0.0
-52.5°	17.4	13.2	10.7	8.5	6.6	3.7	0.0
-55°	15.9	12.4	10.1	8.2	6.4	3.4	0.0
-57.5°	14.4	11.7	9.6	7.8	6.2	3.2	0.0
-60°	12.9	10.9	9.0	7.5	6.0	3.0	0.0
-62.5°	12.0	10.2	8.5	7.1	5.5	2.8	0.0
-65°	11.0	9.4	8.1	6.8	5.1	2.5	0.0
-67.5°	10.1	8.7	7.6	6.4	4.6	2.3	0.0
-70°	9.1	8.1	7.1	6.1	4.1	2.1	0.0
-72.5°	8.4	7.5	6.6	5.4	3.6	1.8	0.0
-75°	7.6	6.9	6.1	4.6	3.1	1.6	0.0
-77.5°	6.9	6.2	5.2	3.9	2.6	1.3	0.0
-80°	6.1	5.2	4.1	3.1	2.1	1.0	0.0
-82.5°	4.6	3.9	3.1	2.3	1.6	0.8	0.0
-85°	3.1	2.6	2.1	1.6	1.0	0.5	0.0
-87.5°	1.6	1.3	1.0	0.8	0.5	0.3	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(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

