

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: P701423 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-57-80-3S-HEG-S**

Issue Date: 8/15/2023

Test Information

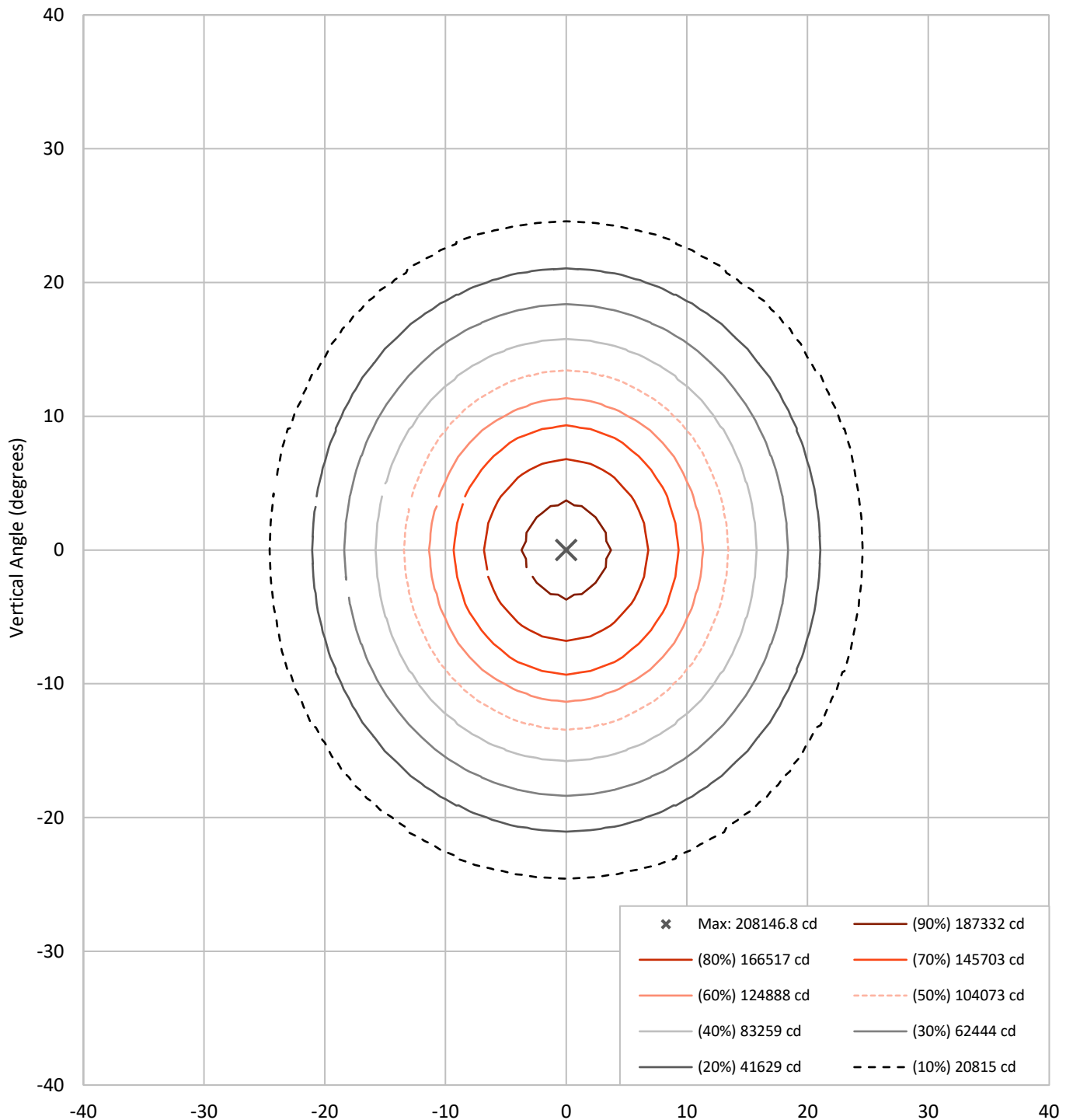
Test Method: LM-79-08
Report Number: P701423 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320L-57-80-3S-HEG-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 3S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	56217.7 lumens	Max Intensity:	208146.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	163.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	26.9°H x 26.9°V	Field Angle (10%):	48.9°H x 48.9°V
Beam Lumens:	24375.1 lumens	Field Lumens:	46666.2 lumens
Beam Efficiency:	43.4%	Field Efficiency:	83.0%
Input Watts (W):	344.2		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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Iso-Candela Plot





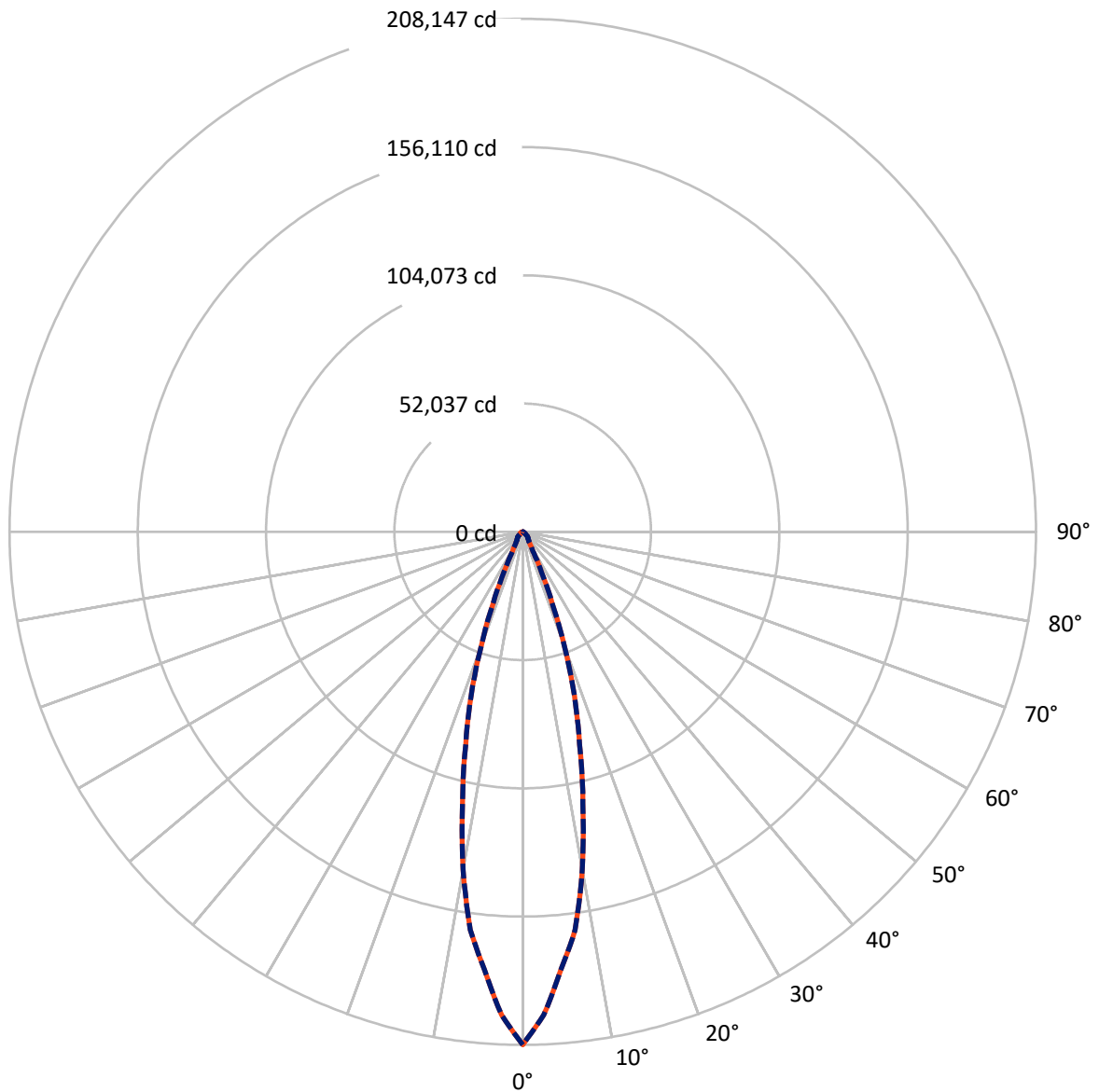
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Lumen Table

90																
80	0.1	0.5		1.9		5.1		6.8		5.1		1.9		0.5		0.1
70																
60	0.2	0.3	1.2	3.7	7.3	11.1	14.3	16.0	16.0	14.3	11.1	7.3	3.7	1.2	0.3	0.2
50		0.9	4.3	10.2	17.6	25.1	31.1	34.4	34.4	31.1	25.1	17.6	10.2	4.3	0.9	
40	0.7	2.3	8.4	17.8	29.4	46.4	66.3	77.9	77.9	66.3	46.4	29.4	17.8	8.4	2.3	0.7
30		3.9	12.4	25.5	52.0	85.6	110.1	129.3	129.3	110.1	85.6	52.0	25.5	12.4	3.9	
20	1.5	5.4	16.0	36.5	77.5	122.7	283.6	583.3	583.3	283.6	122.7	77.5	36.5	16.0	5.4	1.5
10		6.4	18.7	49.1	93.7	267.7	1240.7	2484.6	2484.6	1240.7	267.7	93.7	49.1	18.7	6.4	
0	1.9	7.0	20.0	55.8	106.9	536.9	2416.6	4766.1	4766.1	2416.6	536.9	106.9	55.8	20.0	7.0	1.9
-10		7.0	20.0	55.8	106.9	536.9	2416.6	4766.1	4766.1	2416.6	536.9	106.9	55.8	20.0	7.0	
-20	1.5	6.4	18.7	49.1	93.7	267.7	1240.7	2484.6	2484.6	1240.7	267.7	93.7	49.1	18.7	6.4	1.5
-30		5.4	16.0	36.5	77.5	122.7	283.6	583.3	583.3	283.6	122.7	77.5	36.5	16.0	5.4	
-40	0.7	3.9	12.4	25.5	52.0	85.6	110.1	129.3	129.3	110.1	85.6	52.0	25.5	12.4	3.9	0.7
-50		2.3	8.4	17.8	29.4	46.4	66.3	77.9	77.9	66.3	46.4	29.4	17.8	8.4	2.3	
-60	0.2	0.9	4.3	10.2	17.6	25.1	31.1	34.4	34.4	31.1	25.1	17.6	10.2	4.3	0.9	0.2
-70		0.3	1.2	3.7	7.3	11.1	14.3	16.0	16.0	14.3	11.1	7.3	3.7	1.2	0.3	
-80																
-90	0.1	0.5		1.9		5.1		6.8		5.1		1.9		0.5		0.1

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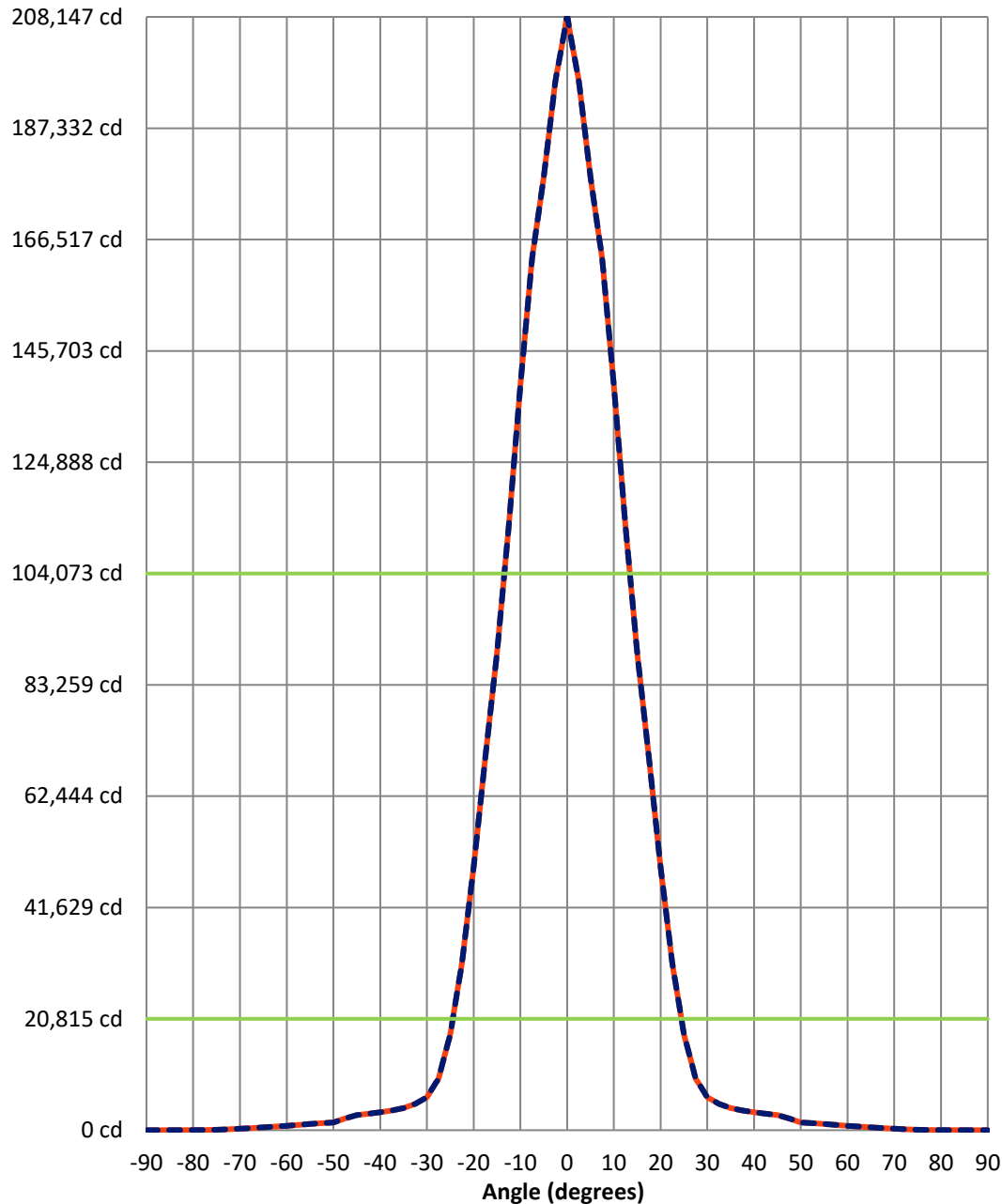
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 26.9°
 V Angle: 26.9°
 Lumens: 24375.1
 Efficiency: 43.4%

Field:
 H Angle: 48.9°
 V Angle: 48.9°
 Lumens: 46666.2
 Efficiency: 83.0%

Spill:
 Lumens: 9551.5
 Efficiency: 17.0%

- 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	0.2	0.3	0.5	0.7	0.8	1.0	1.1	1.3	1.5	1.6
85°	0.0	0.3	0.7	1.0	1.3	1.6	2.0	2.3	2.6	2.9	3.2
82.5°	0.0	0.5	1.0	1.5	2.0	2.5	2.9	3.4	3.9	4.2	4.5
80°	0.0	0.7	1.3	2.0	2.6	3.3	3.9	4.4	4.8	5.3	5.7
77.5°	0.0	0.8	1.6	2.5	3.3	4.0	4.6	5.2	5.8	6.3	7.1
75°	0.0	1.0	2.0	2.9	3.9	4.6	5.3	6.0	6.8	7.9	9.1
72.5°	0.0	1.1	2.3	3.4	4.4	5.2	6.0	7.0	8.3	9.7	11.0
70°	0.0	1.3	2.6	3.9	4.8	5.8	6.8	8.3	9.9	11.5	13.5
67.5°	0.0	1.5	2.9	4.2	5.3	6.3	7.9	9.7	11.5	13.8	16.2
65°	0.0	1.6	3.2	4.5	5.7	7.1	9.1	11.0	13.5	16.2	19.5
62.5°	0.0	1.8	3.5	4.9	6.2	8.0	10.2	12.7	15.6	18.9	24.6
60°	0.0	1.9	3.8	5.2	6.6	8.9	11.3	14.4	17.6	23.4	29.6
57.5°	0.0	2.0	4.0	5.5	7.3	9.8	12.7	16.1	21.1	27.9	42.5
55°	0.0	2.2	4.2	5.8	8.0	10.7	14.1	17.8	24.9	34.5	59.0
52.5°	0.0	2.3	4.4	6.1	8.7	11.6	15.5	20.9	28.7	48.8	74.9
50°	0.0	2.4	4.6	6.4	9.3	12.7	16.9	24.0	34.8	62.8	104.0
47.5°	0.0	2.6	4.8	6.7	9.9	13.8	18.4	27.1	46.8	76.3	133.8
45°	0.0	2.7	5.0	7.2	10.5	14.8	20.9	30.0	58.4	101.8	162.5
42.5°	0.0	2.8	5.1	7.6	11.1	15.8	23.3	36.8	69.4	126.5	196.2
40°	0.0	2.9	5.3	8.0	11.8	16.8	25.6	46.1	83.4	150.2	229.6
37.5°	0.0	3.0	5.4	8.4	12.5	17.7	27.8	54.8	103.4	174.4	261.4
35°	0.0	3.1	5.6	8.8	13.2	19.1	29.8	63.2	122.3	201.4	291.3
32.5°	0.0	3.2	5.7	9.1	13.8	20.7	33.2	71.0	140.1	226.9	319.0
30°	0.0	3.3	5.8	9.5	14.4	22.2	39.4	80.0	156.8	250.7	345.0
27.5°	0.0	3.4	6.0	9.8	15.0	23.6	45.2	93.5	173.8	272.9	369.3
25°	0.0	3.4	6.1	10.0	15.5	24.9	50.6	105.9	191.8	293.0	391.9
22.5°	0.0	3.5	6.2	10.3	16.0	26.1	55.4	117.2	208.3	311.2	417.7
20°	0.0	3.6	6.3	10.5	16.4	27.2	59.8	127.4	223.1	327.6	441.0
17.5°	0.0	3.6	6.3	10.7	16.8	28.1	63.7	136.5	236.3	342.3	461.8
15°	0.0	3.7	6.4	10.9	17.1	28.9	67.1	144.4	247.8	355.0	479.9
12.5°	0.0	3.7	6.5	11.1	17.4	29.6	70.0	151.1	257.6	365.8	495.3
10°	0.0	3.7	6.5	11.2	17.6	30.2	72.4	156.6	265.6	374.8	508.0
7.5°	0.0	3.8	6.6	11.3	17.8	30.6	74.2	160.9	271.9	381.7	517.9
5°	0.0	3.8	6.6	11.3	17.9	30.9	75.5	164.0	276.4	386.7	525.0
2.5°	0.0	3.8	6.6	11.4	18.0	31.1	76.3	165.9	279.1	389.7	529.3
0°	0.0	3.8	6.6	11.4	18.0	31.1	76.3	165.9	279.1	389.7	529.3
-2.5°	0.0	3.8	6.6	11.4	18.0	31.1	76.3	165.9	279.1	389.7	529.3
-5°	0.0	3.8	6.6	11.3	17.9	30.9	75.5	164.0	276.4	386.7	525.0
-7.5°	0.0	3.8	6.6	11.3	17.8	30.6	74.2	160.9	271.9	381.7	517.9
-10°	0.0	3.7	6.5	11.2	17.6	30.2	72.4	156.6	265.6	374.8	508.0
-12.5°	0.0	3.7	6.5	11.1	17.4	29.6	70.0	151.1	257.6	365.8	495.3
-15°	0.0	3.7	6.4	10.9	17.1	28.9	67.1	144.4	247.8	355.0	479.9
-17.5°	0.0	3.6	6.3	10.7	16.8	28.1	63.7	136.5	236.3	342.3	461.8
-20°	0.0	3.6	6.3	10.5	16.4	27.2	59.8	127.4	223.1	327.6	441.0



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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	3.5	6.2	10.3	16.0	26.1	55.4	117.2	208.3	311.2	417.7
-25°	0.0	3.4	6.1	10.0	15.5	24.9	50.6	105.9	191.8	293.0	391.9
-27.5°	0.0	3.4	6.0	9.8	15.0	23.6	45.2	93.5	173.8	272.9	369.3
-30°	0.0	3.3	5.8	9.5	14.4	22.2	39.4	80.0	156.8	250.7	345.0
-32.5°	0.0	3.2	5.7	9.1	13.8	20.7	33.2	71.0	140.1	226.9	319.0
-35°	0.0	3.1	5.6	8.8	13.2	19.1	29.8	63.2	122.3	201.4	291.3
-37.5°	0.0	3.0	5.4	8.4	12.5	17.7	27.8	54.8	103.4	174.4	261.4
-40°	0.0	2.9	5.3	8.0	11.8	16.8	25.6	46.1	83.4	150.2	229.6
-42.5°	0.0	2.8	5.1	7.6	11.1	15.8	23.3	36.8	69.4	126.5	196.2
-45°	0.0	2.7	5.0	7.2	10.5	14.8	20.9	30.0	58.4	101.8	162.5
-47.5°	0.0	2.6	4.8	6.7	9.9	13.8	18.4	27.1	46.8	76.3	133.8
-50°	0.0	2.4	4.6	6.4	9.3	12.7	16.9	24.0	34.8	62.8	104.0
-52.5°	0.0	2.3	4.4	6.1	8.7	11.6	15.5	20.9	28.7	48.8	74.9
-55°	0.0	2.2	4.2	5.8	8.0	10.7	14.1	17.8	24.9	34.5	59.0
-57.5°	0.0	2.0	4.0	5.5	7.3	9.8	12.7	16.1	21.1	27.9	42.5
-60°	0.0	1.9	3.8	5.2	6.6	8.9	11.3	14.4	17.6	23.4	29.6
-62.5°	0.0	1.8	3.5	4.9	6.2	8.0	10.2	12.7	15.6	18.9	24.6
-65°	0.0	1.6	3.2	4.5	5.7	7.1	9.1	11.0	13.5	16.2	19.5
-67.5°	0.0	1.5	2.9	4.2	5.3	6.3	7.9	9.7	11.5	13.8	16.2
-70°	0.0	1.3	2.6	3.9	4.8	5.8	6.8	8.3	9.9	11.5	13.5
-72.5°	0.0	1.1	2.3	3.4	4.4	5.2	6.0	7.0	8.3	9.7	11.0
-75°	0.0	1.0	2.0	2.9	3.9	4.6	5.3	6.0	6.8	7.9	9.1
-77.5°	0.0	0.8	1.6	2.5	3.3	4.0	4.6	5.2	5.8	6.3	7.1
-80°	0.0	0.7	1.3	2.0	2.6	3.3	3.9	4.4	4.8	5.3	5.7
-82.5°	0.0	0.5	1.0	1.5	2.0	2.5	2.9	3.4	3.9	4.2	4.5
-85°	0.0	0.3	0.7	1.0	1.3	1.6	2.0	2.3	2.6	2.9	3.2
-87.5°	0.0	0.2	0.3	0.5	0.7	0.8	1.0	1.1	1.3	1.5	1.6
-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):

	-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°	1.8	1.9	2.0	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0
85°	3.5	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.1	5.3	5.4
82.5°	4.9	5.2	5.5	5.8	6.1	6.4	6.7	7.2	7.6	8.0	8.4
80°	6.2	6.6	7.3	8.0	8.7	9.3	9.9	10.5	11.1	11.8	12.5
77.5°	8.0	8.9	9.8	10.7	11.6	12.7	13.8	14.8	15.8	16.8	17.7
75°	10.2	11.3	12.7	14.1	15.5	16.9	18.4	20.9	23.3	25.6	27.8
72.5°	12.7	14.4	16.1	17.8	20.9	24.0	27.1	30.0	36.8	46.1	54.8
70°	15.6	17.6	21.1	24.9	28.7	34.8	46.8	58.4	69.4	83.4	103.4
67.5°	18.9	23.4	27.9	34.5	48.8	62.8	76.3	101.8	126.5	150.2	174.4
65°	24.6	29.6	42.5	59.0	74.9	104.0	133.8	162.5	196.2	229.6	261.4
62.5°	30.2	46.6	65.1	89.5	124.3	158.1	197.2	237.2	275.6	311.7	346.0
60°	46.6	67.1	97.6	136.5	176.5	223.1	268.3	311.2	352.3	391.9	439.5
57.5°	65.1	97.6	140.6	186.9	238.8	289.0	336.9	383.1	437.6	491.8	543.9
55°	89.5	136.5	186.9	244.0	299.3	352.4	407.5	470.6	531.7	591.5	648.8
52.5°	124.3	176.5	238.8	299.3	357.6	420.7	490.7	559.1	626.0	690.0	750.2
50°	158.1	223.1	289.0	352.4	420.7	497.4	572.9	646.9	717.4	784.7	858.1
47.5°	197.2	268.3	336.9	407.5	490.7	572.9	653.9	731.2	805.6	893.0	978.6
45°	237.2	311.2	383.1	470.6	559.1	646.9	731.2	812.6	910.5	1006.2	1101.5
42.5°	275.6	352.3	437.6	531.7	626.0	717.4	805.6	910.5	1015.5	1120.5	1212.2
40°	311.7	391.9	491.8	591.5	690.0	784.7	893.0	1006.2	1120.5	1220.2	1309.5
37.5°	346.0	439.5	543.9	648.8	750.2	858.1	978.6	1101.5	1212.2	1309.5	1388.6
35°	378.5	484.7	594.2	702.7	807.7	934.7	1064.0	1188.2	1293.1	1381.7	1599.4
32.5°	414.2	527.4	641.9	753.1	874.1	1008.4	1145.5	1260.7	1361.0	1512.7	2044.2
30°	450.7	568.3	686.3	800.6	937.7	1080.1	1212.8	1326.9	1422.0	1911.5	2421.1
27.5°	484.7	606.5	727.1	852.7	997.9	1147.3	1273.1	1380.6	1693.3	2272.5	2753.2
25°	516.1	641.9	764.8	903.6	1055.6	1202.2	1326.6	1430.7	2023.0	2564.0	2921.7
22.5°	545.1	674.2	799.4	950.3	1108.7	1250.0	1369.5	1677.5	2305.1	2827.0	3040.8
20°	571.6	702.7	835.0	993.0	1156.8	1293.5	1408.6	1935.9	2535.0	2928.6	3154.8
17.5°	595.1	728.1	869.5	1032.5	1193.9	1329.2	1472.7	2168.0	2741.9	3020.3	3260.0
15°	615.7	750.2	899.7	1067.0	1225.2	1357.6	1661.1	2341.4	2863.9	3102.9	3353.9
12.5°	633.2	769.1	925.5	1096.5	1252.0	1381.8	1822.5	2486.0	2928.3	3177.1	3452.6
10°	647.7	784.7	946.7	1120.9	1274.2	1401.9	1956.0	2605.7	2981.6	3238.8	3534.9
7.5°	658.9	796.9	963.3	1139.9	1291.5	1417.6	2060.7	2699.7	3023.6	3287.3	3599.8
5°	667.0	805.6	975.2	1153.5	1303.9	1428.8	2136.0	2767.4	3053.9	3322.4	3646.7
2.5°	671.9	810.8	982.4	1161.8	1311.4	1435.6	2181.3	2808.2	3072.1	3343.5	3675.0
0°	673.5	812.6	984.8	1164.5	1313.9	1437.9	2196.5	2821.8	3078.2	3350.6	3684.5
-2.5°	671.9	810.8	982.4	1161.8	1311.4	1435.6	2181.3	2808.2	3072.1	3343.5	3675.0
-5°	667.0	805.6	975.2	1153.5	1303.9	1428.8	2136.0	2767.4	3053.9	3322.4	3646.7
-7.5°	658.9	796.9	963.3	1139.9	1291.5	1417.6	2060.7	2699.7	3023.6	3287.3	3599.8
-10°	647.7	784.7	946.7	1120.9	1274.2	1401.9	1956.0	2605.7	2981.6	3238.8	3534.9
-12.5°	633.2	769.1	925.5	1096.5	1252.0	1381.8	1822.5	2486.0	2928.3	3177.1	3452.6
-15°	615.7	750.2	899.7	1067.0	1225.2	1357.6	1661.1	2341.4	2863.9	3102.9	3353.9
-17.5°	595.1	728.1	869.5	1032.5	1193.9	1329.2	1472.7	2168.0	2741.9	3020.3	3260.0
-20°	571.6	702.7	835.0	993.0	1156.8	1293.5	1408.6	1935.9	2535.0	2928.6	3154.8



REPORT NUMBER: P701423 (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°	545.1	674.2	799.4	950.3	1108.7	1250.0	1369.5	1677.5	2305.1	2827.0	3040.8
-25°	516.1	641.9	764.8	903.6	1055.6	1202.2	1326.6	1430.7	2023.0	2564.0	2921.7
-27.5°	484.7	606.5	727.1	852.7	997.9	1147.3	1273.1	1380.6	1693.3	2272.5	2753.2
-30°	450.7	568.3	686.3	800.6	937.7	1080.1	1212.8	1326.9	1422.0	1911.5	2421.1
-32.5°	414.2	527.4	641.9	753.1	874.1	1008.4	1145.5	1260.7	1361.0	1512.7	2044.2
-35°	378.5	484.7	594.2	702.7	807.7	934.7	1064.0	1188.2	1293.1	1381.7	1599.4
-37.5°	346.0	439.5	543.9	648.8	750.2	858.1	978.6	1101.5	1212.2	1309.5	1388.6
-40°	311.7	391.9	491.8	591.5	690.0	784.7	893.0	1006.2	1120.5	1220.2	1309.5
-42.5°	275.6	352.3	437.6	531.7	626.0	717.4	805.6	910.5	1015.5	1120.5	1212.2
-45°	237.2	311.2	383.1	470.6	559.1	646.9	731.2	812.6	910.5	1006.2	1101.5
-47.5°	197.2	268.3	336.9	407.5	490.7	572.9	653.9	731.2	805.6	893.0	978.6
-50°	158.1	223.1	289.0	352.4	420.7	497.4	572.9	646.9	717.4	784.7	858.1
-52.5°	124.3	176.5	238.8	299.3	357.6	420.7	490.7	559.1	626.0	690.0	750.2
-55°	89.5	136.5	186.9	244.0	299.3	352.4	407.5	470.6	531.7	591.5	648.8
-57.5°	65.1	97.6	140.6	186.9	238.8	289.0	336.9	383.1	437.6	491.8	543.9
-60°	46.6	67.1	97.6	136.5	176.5	223.1	268.3	311.2	352.3	391.9	439.5
-62.5°	30.2	46.6	65.1	89.5	124.3	158.1	197.2	237.2	275.6	311.7	346.0
-65°	24.6	29.6	42.5	59.0	74.9	104.0	133.8	162.5	196.2	229.6	261.4
-67.5°	18.9	23.4	27.9	34.5	48.8	62.8	76.3	101.8	126.5	150.2	174.4
-70°	15.6	17.6	21.1	24.9	28.7	34.8	46.8	58.4	69.4	83.4	103.4
-72.5°	12.7	14.4	16.1	17.8	20.9	24.0	27.1	30.0	36.8	46.1	54.8
-75°	10.2	11.3	12.7	14.1	15.5	16.9	18.4	20.9	23.3	25.6	27.8
-77.5°	8.0	8.9	9.8	10.7	11.6	12.7	13.8	14.8	15.8	16.8	17.7
-80°	6.2	6.6	7.3	8.0	8.7	9.3	9.9	10.5	11.1	11.8	12.5
-82.5°	4.9	5.2	5.5	5.8	6.1	6.4	6.7	7.2	7.6	8.0	8.4
-85°	3.5	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.1	5.3	5.4
-87.5°	1.8	1.9	2.0	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0
-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: P701423 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-80-3S-HEG-S

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°	3.1	3.2	3.3	3.4	3.4	3.5	3.6	3.6	3.7	3.7	3.7
85°	5.6	5.7	5.8	6.0	6.1	6.2	6.3	6.3	6.4	6.5	6.5
82.5°	8.8	9.1	9.5	9.8	10.0	10.3	10.5	10.7	10.9	11.1	11.2
80°	13.2	13.8	14.4	15.0	15.5	16.0	16.4	16.8	17.1	17.4	17.6
77.5°	19.1	20.7	22.2	23.6	24.9	26.1	27.2	28.1	28.9	29.6	30.2
75°	29.8	33.2	39.4	45.2	50.6	55.4	59.8	63.7	67.1	70.0	72.4
72.5°	63.2	71.0	80.0	93.5	105.9	117.2	127.4	136.5	144.4	151.1	156.6
70°	122.3	140.1	156.8	173.8	191.8	208.3	223.1	236.3	247.8	257.6	265.6
67.5°	201.4	226.9	250.7	272.9	293.0	311.2	327.6	342.3	355.0	365.8	374.8
65°	291.3	319.0	345.0	369.3	391.9	417.7	441.0	461.8	479.9	495.3	508.0
62.5°	378.5	414.2	450.7	484.7	516.1	545.1	571.6	595.1	615.7	633.2	647.7
60°	484.7	527.4	568.3	606.5	641.9	674.2	702.7	728.1	750.2	769.1	784.7
57.5°	594.2	641.9	686.3	727.1	764.8	799.4	835.0	869.5	899.7	925.5	946.7
55°	702.7	753.1	800.6	852.7	903.6	950.3	993.0	1032.5	1067.0	1096.5	1120.9
52.5°	807.7	874.1	937.7	997.9	1055.6	1108.7	1156.8	1193.9	1225.2	1252.0	1274.2
50°	934.7	1008.4	1080.1	1147.3	1202.2	1250.0	1293.5	1329.2	1357.6	1381.8	1401.9
47.5°	1064.0	1145.5	1212.8	1273.1	1326.6	1369.5	1408.6	1472.7	1661.1	1822.5	1956.0
45°	1188.2	1260.7	1326.9	1380.6	1430.7	1677.5	1935.9	2168.0	2341.4	2486.0	2605.7
42.5°	1293.1	1361.0	1422.0	1693.3	2023.0	2305.1	2535.0	2741.9	2863.9	2928.3	2981.6
40°	1381.7	1512.7	1911.5	2272.5	2564.0	2827.0	2928.6	3020.3	3102.9	3177.1	3238.8
37.5°	1599.4	2044.2	2421.1	2753.2	2921.7	3040.8	3154.8	3260.0	3353.9	3452.6	3534.9
35°	2088.8	2496.3	2840.9	2986.1	3125.8	3261.5	3394.9	3534.1	3658.0	3791.8	3910.9
32.5°	2496.3	2856.8	3018.7	3179.1	3334.4	3509.1	3674.1	3870.5	4048.9	4263.1	4494.6
30°	2840.9	3018.7	3197.0	3376.0	3579.0	3798.1	4033.9	4344.6	4689.4	5030.3	5425.6
27.5°	2986.1	3179.1	3376.0	3602.5	3862.8	4138.9	4590.6	5054.7	5639.4	6152.2	7385.3
25°	3125.8	3334.4	3579.0	3862.8	4199.2	4716.0	5359.7	6060.5	7700.6	9301.8	11976.6
22.5°	3261.5	3509.1	3798.1	4138.9	4716.0	5462.8	6501.5	8663.5	11917.9	16026.7	20518.7
20°	3394.9	3674.1	4033.9	4590.6	5359.7	6501.5	8990.1	13526.7	18933.4	26199.2	32906.4
17.5°	3534.1	3870.5	4344.6	5054.7	6060.5	8663.5	13526.7	20322.2	29144.2	39207.7	48644.4
15°	3658.0	4048.9	4689.4	5639.4	7700.6	11917.9	18933.4	29144.2	41369.0	53844.7	65881.3
12.5°	3791.8	4263.1	5030.3	6152.2	9301.8	16026.7	26199.2	39207.7	53844.7	68804.7	81757.1
10°	3910.9	4494.6	5425.6	7385.3	11976.6	20518.7	32906.4	48644.4	65881.3	81757.1	97208.6
7.5°	4005.0	4678.1	5740.2	8374.2	14536.6	25098.7	39822.0	57450.4	75695.7	93290.7	113047.3
5°	4073.1	4811.2	5968.9	9095.9	16413.1	28475.3	44959.9	64121.0	83046.8	103557.6	126155.8
2.5°	4114.4	4892.0	6107.9	9535.3	17559.4	30546.8	48130.2	68270.9	87675.2	110447.3	135777.1
0°	4128.2	4919.0	6154.5	9682.9	17945.0	31245.3	49202.6	69680.9	89258.6	112823.6	139239.7
-2.5°	4114.4	4892.0	6107.9	9535.3	17559.4	30546.8	48130.2	68270.9	87675.2	110447.3	135777.1
-5°	4073.1	4811.2	5968.9	9095.9	16413.1	28475.3	44959.9	64121.0	83046.8	103557.6	126155.8
-7.5°	4005.0	4678.1	5740.2	8374.2	14536.6	25098.7	39822.0	57450.4	75695.7	93290.7	113047.3
-10°	3910.9	4494.6	5425.6	7385.3	11976.6	20518.7	32906.4	48644.4	65881.3	81757.1	97208.6
-12.5°	3791.8	4263.1	5030.3	6152.2	9301.8	16026.7	26199.2	39207.7	53844.7	68804.7	81757.1
-15°	3658.0	4048.9	4689.4	5639.4	7700.6	11917.9	18933.4	29144.2	41369.0	53844.7	65881.3
-17.5°	3534.1	3870.5	4344.6	5054.7	6060.5	8663.5	13526.7	20322.2	29144.2	39207.7	48644.4
-20°	3394.9	3674.1	4033.9	4590.6	5359.7	6501.5	8990.1	13526.7	18933.4	26199.2	32906.4



REPORT NUMBER: P701423 (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°	3261.5	3509.1	3798.1	4138.9	4716.0	5462.8	6501.5	8663.5	11917.9	16026.7	20518.7
-25°	3125.8	3334.4	3579.0	3862.8	4199.2	4716.0	5359.7	6060.5	7700.6	9301.8	11976.6
-27.5°	2986.1	3179.1	3376.0	3602.5	3862.8	4138.9	4590.6	5054.7	5639.4	6152.2	7385.3
-30°	2840.9	3018.7	3197.0	3376.0	3579.0	3798.1	4033.9	4344.6	4689.4	5030.3	5425.6
-32.5°	2496.3	2856.8	3018.7	3179.1	3334.4	3509.1	3674.1	3870.5	4048.9	4263.1	4494.6
-35°	2088.8	2496.3	2840.9	2986.1	3125.8	3261.5	3394.9	3534.1	3658.0	3791.8	3910.9
-37.5°	1599.4	2044.2	2421.1	2753.2	2921.7	3040.8	3154.8	3260.0	3353.9	3452.6	3534.9
-40°	1381.7	1512.7	1911.5	2272.5	2564.0	2827.0	2928.6	3020.3	3102.9	3177.1	3238.8
-42.5°	1293.1	1361.0	1422.0	1693.3	2023.0	2305.1	2535.0	2741.9	2863.9	2928.3	2981.6
-45°	1188.2	1260.7	1326.9	1380.6	1430.7	1677.5	1935.9	2168.0	2341.4	2486.0	2605.7
-47.5°	1064.0	1145.5	1212.8	1273.1	1326.6	1369.5	1408.6	1472.7	1661.1	1822.5	1956.0
-50°	934.7	1008.4	1080.1	1147.3	1202.2	1250.0	1293.5	1329.2	1357.6	1381.8	1401.9
-52.5°	807.7	874.1	937.7	997.9	1055.6	1108.7	1156.8	1193.9	1225.2	1252.0	1274.2
-55°	702.7	753.1	800.6	852.7	903.6	950.3	993.0	1032.5	1067.0	1096.5	1120.9
-57.5°	594.2	641.9	686.3	727.1	764.8	799.4	835.0	869.5	899.7	925.5	946.7
-60°	484.7	527.4	568.3	606.5	641.9	674.2	702.7	728.1	750.2	769.1	784.7
-62.5°	378.5	414.2	450.7	484.7	516.1	545.1	571.6	595.1	615.7	633.2	647.7
-65°	291.3	319.0	345.0	369.3	391.9	417.7	441.0	461.8	479.9	495.3	508.0
-67.5°	201.4	226.9	250.7	272.9	293.0	311.2	327.6	342.3	355.0	365.8	374.8
-70°	122.3	140.1	156.8	173.8	191.8	208.3	223.1	236.3	247.8	257.6	265.6
-72.5°	63.2	71.0	80.0	93.5	105.9	117.2	127.4	136.5	144.4	151.1	156.6
-75°	29.8	33.2	39.4	45.2	50.6	55.4	59.8	63.7	67.1	70.0	72.4
-77.5°	19.1	20.7	22.2	23.6	24.9	26.1	27.2	28.1	28.9	29.6	30.2
-80°	13.2	13.8	14.4	15.0	15.5	16.0	16.4	16.8	17.1	17.4	17.6
-82.5°	8.8	9.1	9.5	9.8	10.0	10.3	10.5	10.7	10.9	11.1	11.2
-85°	5.6	5.7	5.8	6.0	6.1	6.2	6.3	6.3	6.4	6.5	6.5
-87.5°	3.1	3.2	3.3	3.4	3.4	3.5	3.6	3.6	3.7	3.7	3.7
-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: P701423 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-80-3S-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°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.7	3.7	3.7	3.6
85°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.4	6.3
82.5°	11.3	11.3	11.4	11.4	11.4	11.3	11.3	11.2	11.1	10.9	10.7
80°	17.8	17.9	18.0	18.0	18.0	17.9	17.8	17.6	17.4	17.1	16.8
77.5°	30.6	30.9	31.1	31.2	31.1	30.9	30.6	30.2	29.6	28.9	28.1
75°	74.2	75.5	76.3	76.6	76.3	75.5	74.2	72.4	70.0	67.1	63.7
72.5°	160.9	164.0	165.9	166.5	165.9	164.0	160.9	156.6	151.1	144.4	136.5
70°	271.9	276.4	279.1	280.0	279.1	276.4	271.9	265.6	257.6	247.8	236.3
67.5°	381.7	386.7	389.7	390.7	389.7	386.7	381.7	374.8	365.8	355.0	342.3
65°	517.9	525.0	529.3	530.7	529.3	525.0	517.9	508.0	495.3	479.9	461.8
62.5°	658.9	667.0	671.9	673.5	671.9	667.0	658.9	647.7	633.2	615.7	595.1
60°	796.9	805.6	810.8	812.6	810.8	805.6	796.9	784.7	769.1	750.2	728.1
57.5°	963.3	975.2	982.4	984.8	982.4	975.2	963.3	946.7	925.5	899.7	869.5
55°	1139.9	1153.5	1161.8	1164.5	1161.8	1153.5	1139.9	1120.9	1096.5	1067.0	1032.5
52.5°	1291.5	1303.9	1311.4	1313.9	1311.4	1303.9	1291.5	1274.2	1252.0	1225.2	1193.9
50°	1417.6	1428.8	1435.6	1437.9	1435.6	1428.8	1417.6	1401.9	1381.8	1357.6	1329.2
47.5°	2060.7	2136.0	2181.3	2196.5	2181.3	2136.0	2060.7	1956.0	1822.5	1661.1	1472.7
45°	2699.7	2767.4	2808.2	2821.8	2808.2	2767.4	2699.7	2605.7	2486.0	2341.4	2168.0
42.5°	3023.6	3053.9	3072.1	3078.2	3072.1	3053.9	3023.6	2981.6	2928.3	2863.9	2741.9
40°	3287.3	3322.4	3343.5	3350.6	3343.5	3322.4	3287.3	3238.8	3177.1	3102.9	3020.3
37.5°	3599.8	3646.7	3675.0	3684.5	3675.0	3646.7	3599.8	3534.9	3452.6	3353.9	3260.0
35°	4005.0	4073.1	4114.4	4128.2	4114.4	4073.1	4005.0	3910.9	3791.8	3658.0	3534.1
32.5°	4678.1	4811.2	4892.0	4919.0	4892.0	4811.2	4678.1	4494.6	4263.1	4048.9	3870.5
30°	5740.2	5968.9	6107.9	6154.5	6107.9	5968.9	5740.2	5425.6	5030.3	4689.4	4344.6
27.5°	8374.2	9095.9	9535.3	9682.9	9535.3	9095.9	8374.2	7385.3	6152.2	5639.4	5054.7
25°	14536.6	16413.1	17559.4	17945.0	17559.4	16413.1	14536.6	11976.6	9301.8	7700.6	6060.5
22.5°	25098.7	28475.3	30546.8	31245.3	30546.8	28475.3	25098.7	20518.7	16026.7	11917.9	8663.5
20°	39822.0	44959.9	48130.2	49202.6	48130.2	44959.9	39822.0	32906.4	26199.2	18933.4	13526.7
17.5°	57450.4	64121.0	68270.9	69680.9	68270.9	64121.0	57450.4	48644.4	39207.7	29144.2	20322.2
15°	75695.7	83046.8	87675.2	89258.6	87675.2	83046.8	75695.7	65881.3	53844.7	41369.0	29144.2
12.5°	93290.7	103557.6	110447.3	112823.6	110447.3	103557.6	93290.7	81757.1	68804.7	53844.7	39207.7
10°	113047.3	126155.8	135777.1	139239.7	135777.1	126155.8	113047.3	97208.6	81757.1	65881.3	48644.4
7.5°	132518.4	150214.5	160003.1	162909.3	160003.1	150214.5	132518.4	113047.3	93290.7	75695.7	57450.4
5°	150214.5	166031.4	175085.1	178217.4	175085.1	166031.4	150214.5	126155.8	103557.6	83046.8	64121.0
2.5°	160003.1	175085.1	187652.5	196180.4	187652.5	175085.1	160003.1	135777.1	110447.3	87675.2	68270.9
0°	162909.3	178217.4	196180.4	208146.8	196180.4	178217.4	162909.3	139239.7	112823.6	89258.6	69680.9
-2.5°	160003.1	175085.1	187652.5	196180.4	187652.5	175085.1	160003.1	135777.1	110447.3	87675.2	68270.9
-5°	150214.5	166031.4	175085.1	178217.4	175085.1	166031.4	150214.5	126155.8	103557.6	83046.8	64121.0
-7.5°	132518.4	150214.5	160003.1	162909.3	160003.1	150214.5	132518.4	113047.3	93290.7	75695.7	57450.4
-10°	113047.3	126155.8	135777.1	139239.7	135777.1	126155.8	113047.3	97208.6	81757.1	65881.3	48644.4
-12.5°	93290.7	103557.6	110447.3	112823.6	110447.3	103557.6	93290.7	81757.1	68804.7	53844.7	39207.7
-15°	75695.7	83046.8	87675.2	89258.6	87675.2	83046.8	75695.7	65881.3	53844.7	41369.0	29144.2
-17.5°	57450.4	64121.0	68270.9	69680.9	68270.9	64121.0	57450.4	48644.4	39207.7	29144.2	20322.2
-20°	39822.0	44959.9	48130.2	49202.6	48130.2	44959.9	39822.0	32906.4	26199.2	18933.4	13526.7



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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°	25098.7	28475.3	30546.8	31245.3	30546.8	28475.3	25098.7	20518.7	16026.7	11917.9	8663.5
-25°	14536.6	16413.1	17559.4	17945.0	17559.4	16413.1	14536.6	11976.6	9301.8	7700.6	6060.5
-27.5°	8374.2	9095.9	9535.3	9682.9	9535.3	9095.9	8374.2	7385.3	6152.2	5639.4	5054.7
-30°	5740.2	5968.9	6107.9	6154.5	6107.9	5968.9	5740.2	5425.6	5030.3	4689.4	4344.6
-32.5°	4678.1	4811.2	4892.0	4919.0	4892.0	4811.2	4678.1	4494.6	4263.1	4048.9	3870.5
-35°	4005.0	4073.1	4114.4	4128.2	4114.4	4073.1	4005.0	3910.9	3791.8	3658.0	3534.1
-37.5°	3599.8	3646.7	3675.0	3684.5	3675.0	3646.7	3599.8	3534.9	3452.6	3353.9	3260.0
-40°	3287.3	3322.4	3343.5	3350.6	3343.5	3322.4	3287.3	3238.8	3177.1	3102.9	3020.3
-42.5°	3023.6	3053.9	3072.1	3078.2	3072.1	3053.9	3023.6	2981.6	2928.3	2863.9	2741.9
-45°	2699.7	2767.4	2808.2	2821.8	2808.2	2767.4	2699.7	2605.7	2486.0	2341.4	2168.0
-47.5°	2060.7	2136.0	2181.3	2196.5	2181.3	2136.0	2060.7	1956.0	1822.5	1661.1	1472.7
-50°	1417.6	1428.8	1435.6	1437.9	1435.6	1428.8	1417.6	1401.9	1381.8	1357.6	1329.2
-52.5°	1291.5	1303.9	1311.4	1313.9	1311.4	1303.9	1291.5	1274.2	1252.0	1225.2	1193.9
-55°	1139.9	1153.5	1161.8	1164.5	1161.8	1153.5	1139.9	1120.9	1096.5	1067.0	1032.5
-57.5°	963.3	975.2	982.4	984.8	982.4	975.2	963.3	946.7	925.5	899.7	869.5
-60°	796.9	805.6	810.8	812.6	810.8	805.6	796.9	784.7	769.1	750.2	728.1
-62.5°	658.9	667.0	671.9	673.5	671.9	667.0	658.9	647.7	633.2	615.7	595.1
-65°	517.9	525.0	529.3	530.7	529.3	525.0	517.9	508.0	495.3	479.9	461.8
-67.5°	381.7	386.7	389.7	390.7	389.7	386.7	381.7	374.8	365.8	355.0	342.3
-70°	271.9	276.4	279.1	280.0	279.1	276.4	271.9	265.6	257.6	247.8	236.3
-72.5°	160.9	164.0	165.9	166.5	165.9	164.0	160.9	156.6	151.1	144.4	136.5
-75°	74.2	75.5	76.3	76.6	76.3	75.5	74.2	72.4	70.0	67.1	63.7
-77.5°	30.6	30.9	31.1	31.2	31.1	30.9	30.6	30.2	29.6	28.9	28.1
-80°	17.8	17.9	18.0	18.0	18.0	17.9	17.8	17.6	17.4	17.1	16.8
-82.5°	11.3	11.3	11.4	11.4	11.4	11.3	11.3	11.2	11.1	10.9	10.7
-85°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.4	6.3
-87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.7	3.7	3.7	3.6
-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°	3.6	3.5	3.4	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7
85°	6.3	6.2	6.1	6.0	5.8	5.7	5.6	5.4	5.3	5.1	5.0
82.5°	10.5	10.3	10.0	9.8	9.5	9.1	8.8	8.4	8.0	7.6	7.2
80°	16.4	16.0	15.5	15.0	14.4	13.8	13.2	12.5	11.8	11.1	10.5
77.5°	27.2	26.1	24.9	23.6	22.2	20.7	19.1	17.7	16.8	15.8	14.8
75°	59.8	55.4	50.6	45.2	39.4	33.2	29.8	27.8	25.6	23.3	20.9
72.5°	127.4	117.2	105.9	93.5	80.0	71.0	63.2	54.8	46.1	36.8	30.0
70°	223.1	208.3	191.8	173.8	156.8	140.1	122.3	103.4	83.4	69.4	58.4
67.5°	327.6	311.2	293.0	272.9	250.7	226.9	201.4	174.4	150.2	126.5	101.8
65°	441.0	417.7	391.9	369.3	345.0	319.0	291.3	261.4	229.6	196.2	162.5
62.5°	571.6	545.1	516.1	484.7	450.7	414.2	378.5	346.0	311.7	275.6	237.2
60°	702.7	674.2	641.9	606.5	568.3	527.4	484.7	439.5	391.9	352.3	311.2
57.5°	835.0	799.4	764.8	727.1	686.3	641.9	594.2	543.9	491.8	437.6	383.1
55°	993.0	950.3	903.6	852.7	800.6	753.1	702.7	648.8	591.5	531.7	470.6
52.5°	1156.8	1108.7	1055.6	997.9	937.7	874.1	807.7	750.2	690.0	626.0	559.1
50°	1293.5	1250.0	1202.2	1147.3	1080.1	1008.4	934.7	858.1	784.7	717.4	646.9
47.5°	1408.6	1369.5	1326.6	1273.1	1212.8	1145.5	1064.0	978.6	893.0	805.6	731.2
45°	1935.9	1677.5	1430.7	1380.6	1326.9	1260.7	1188.2	1101.5	1006.2	910.5	812.6
42.5°	2535.0	2305.1	2023.0	1693.3	1422.0	1361.0	1293.1	1212.2	1120.5	1015.5	910.5
40°	2928.6	2827.0	2564.0	2272.5	1911.5	1512.7	1381.7	1309.5	1220.2	1120.5	1006.2
37.5°	3154.8	3040.8	2921.7	2753.2	2421.1	2044.2	1599.4	1388.6	1309.5	1212.2	1101.5
35°	3394.9	3261.5	3125.8	2986.1	2840.9	2496.3	2088.8	1599.4	1381.7	1293.1	1188.2
32.5°	3674.1	3509.1	3334.4	3179.1	3018.7	2856.8	2496.3	2044.2	1512.7	1361.0	1260.7
30°	4033.9	3798.1	3579.0	3376.0	3197.0	3018.7	2840.9	2421.1	1911.5	1422.0	1326.9
27.5°	4590.6	4138.9	3862.8	3602.5	3376.0	3179.1	2986.1	2753.2	2272.5	1693.3	1380.6
25°	5359.7	4716.0	4199.2	3862.8	3579.0	3334.4	3125.8	2921.7	2564.0	2023.0	1430.7
22.5°	6501.5	5462.8	4716.0	4138.9	3798.1	3509.1	3261.5	3040.8	2827.0	2305.1	1677.5
20°	8990.1	6501.5	5359.7	4590.6	4033.9	3674.1	3394.9	3154.8	2928.6	2535.0	1935.9
17.5°	13526.7	8663.5	6060.5	5054.7	4344.6	3870.5	3534.1	3260.0	3020.3	2741.9	2168.0
15°	18933.4	11917.9	7700.6	5639.4	4689.4	4048.9	3658.0	3353.9	3102.9	2863.9	2341.4
12.5°	26199.2	16026.7	9301.8	6152.2	5030.3	4263.1	3791.8	3452.6	3177.1	2928.3	2486.0
10°	32906.4	20518.7	11976.6	7385.3	5425.6	4494.6	3910.9	3534.9	3238.8	2981.6	2605.7
7.5°	39822.0	25098.7	14536.6	8374.2	5740.2	4678.1	4005.0	3599.8	3287.3	3023.6	2699.7
5°	44959.9	28475.3	16413.1	9095.9	5968.9	4811.2	4073.1	3646.7	3322.4	3053.9	2767.4
2.5°	48130.2	30546.8	17559.4	9535.3	6107.9	4892.0	4114.4	3675.0	3343.5	3072.1	2808.2
0°	49202.6	31245.3	17945.0	9682.9	6154.5	4919.0	4128.2	3684.5	3350.6	3078.2	2821.8
-2.5°	48130.2	30546.8	17559.4	9535.3	6107.9	4892.0	4114.4	3675.0	3343.5	3072.1	2808.2
-5°	44959.9	28475.3	16413.1	9095.9	5968.9	4811.2	4073.1	3646.7	3322.4	3053.9	2767.4
-7.5°	39822.0	25098.7	14536.6	8374.2	5740.2	4678.1	4005.0	3599.8	3287.3	3023.6	2699.7
-10°	32906.4	20518.7	11976.6	7385.3	5425.6	4494.6	3910.9	3534.9	3238.8	2981.6	2605.7
-12.5°	26199.2	16026.7	9301.8	6152.2	5030.3	4263.1	3791.8	3452.6	3177.1	2928.3	2486.0
-15°	18933.4	11917.9	7700.6	5639.4	4689.4	4048.9	3658.0	3353.9	3102.9	2863.9	2341.4
-17.5°	13526.7	8663.5	6060.5	5054.7	4344.6	3870.5	3534.1	3260.0	3020.3	2741.9	2168.0
-20°	8990.1	6501.5	5359.7	4590.6	4033.9	3674.1	3394.9	3154.8	2928.6	2535.0	1935.9



REPORT NUMBER: P701423 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-80-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	6501.5	5462.8	4716.0	4138.9	3798.1	3509.1	3261.5	3040.8	2827.0	2305.1	1677.5
-25°	5359.7	4716.0	4199.2	3862.8	3579.0	3334.4	3125.8	2921.7	2564.0	2023.0	1430.7
-27.5°	4590.6	4138.9	3862.8	3602.5	3376.0	3179.1	2986.1	2753.2	2272.5	1693.3	1380.6
-30°	4033.9	3798.1	3579.0	3376.0	3197.0	3018.7	2840.9	2421.1	1911.5	1422.0	1326.9
-32.5°	3674.1	3509.1	3334.4	3179.1	3018.7	2856.8	2496.3	2044.2	1512.7	1361.0	1260.7
-35°	3394.9	3261.5	3125.8	2986.1	2840.9	2496.3	2088.8	1599.4	1381.7	1293.1	1188.2
-37.5°	3154.8	3040.8	2921.7	2753.2	2421.1	2044.2	1599.4	1388.6	1309.5	1212.2	1101.5
-40°	2928.6	2827.0	2564.0	2272.5	1911.5	1512.7	1381.7	1309.5	1220.2	1120.5	1006.2
-42.5°	2535.0	2305.1	2023.0	1693.3	1422.0	1361.0	1293.1	1212.2	1120.5	1015.5	910.5
-45°	1935.9	1677.5	1430.7	1380.6	1326.9	1260.7	1188.2	1101.5	1006.2	910.5	812.6
-47.5°	1408.6	1369.5	1326.6	1273.1	1212.8	1145.5	1064.0	978.6	893.0	805.6	731.2
-50°	1293.5	1250.0	1202.2	1147.3	1080.1	1008.4	934.7	858.1	784.7	717.4	646.9
-52.5°	1156.8	1108.7	1055.6	997.9	937.7	874.1	807.7	750.2	690.0	626.0	559.1
-55°	993.0	950.3	903.6	852.7	800.6	753.1	702.7	648.8	591.5	531.7	470.6
-57.5°	835.0	799.4	764.8	727.1	686.3	641.9	594.2	543.9	491.8	437.6	383.1
-60°	702.7	674.2	641.9	606.5	568.3	527.4	484.7	439.5	391.9	352.3	311.2
-62.5°	571.6	545.1	516.1	484.7	450.7	414.2	378.5	346.0	311.7	275.6	237.2
-65°	441.0	417.7	391.9	369.3	345.0	319.0	291.3	261.4	229.6	196.2	162.5
-67.5°	327.6	311.2	293.0	272.9	250.7	226.9	201.4	174.4	150.2	126.5	101.8
-70°	223.1	208.3	191.8	173.8	156.8	140.1	122.3	103.4	83.4	69.4	58.4
-72.5°	127.4	117.2	105.9	93.5	80.0	71.0	63.2	54.8	46.1	36.8	30.0
-75°	59.8	55.4	50.6	45.2	39.4	33.2	29.8	27.8	25.6	23.3	20.9
-77.5°	27.2	26.1	24.9	23.6	22.2	20.7	19.1	17.7	16.8	15.8	14.8
-80°	16.4	16.0	15.5	15.0	14.4	13.8	13.2	12.5	11.8	11.1	10.5
-82.5°	10.5	10.3	10.0	9.8	9.5	9.1	8.8	8.4	8.0	7.6	7.2
-85°	6.3	6.2	6.1	6.0	5.8	5.7	5.6	5.4	5.3	5.1	5.0
-87.5°	3.6	3.5	3.4	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7
-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: P701423 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-80-3S-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°	2.6	2.4	2.3	2.2	2.0	1.9	1.8	1.6	1.5	1.3	1.1
85°	4.8	4.6	4.4	4.2	4.0	3.8	3.5	3.2	2.9	2.6	2.3
82.5°	6.7	6.4	6.1	5.8	5.5	5.2	4.9	4.5	4.2	3.9	3.4
80°	9.9	9.3	8.7	8.0	7.3	6.6	6.2	5.7	5.3	4.8	4.4
77.5°	13.8	12.7	11.6	10.7	9.8	8.9	8.0	7.1	6.3	5.8	5.2
75°	18.4	16.9	15.5	14.1	12.7	11.3	10.2	9.1	7.9	6.8	6.0
72.5°	27.1	24.0	20.9	17.8	16.1	14.4	12.7	11.0	9.7	8.3	7.0
70°	46.8	34.8	28.7	24.9	21.1	17.6	15.6	13.5	11.5	9.9	8.3
67.5°	76.3	62.8	48.8	34.5	27.9	23.4	18.9	16.2	13.8	11.5	9.7
65°	133.8	104.0	74.9	59.0	42.5	29.6	24.6	19.5	16.2	13.5	11.0
62.5°	197.2	158.1	124.3	89.5	65.1	46.6	30.2	24.6	18.9	15.6	12.7
60°	268.3	223.1	176.5	136.5	97.6	67.1	46.6	29.6	23.4	17.6	14.4
57.5°	336.9	289.0	238.8	186.9	140.6	97.6	65.1	42.5	27.9	21.1	16.1
55°	407.5	352.4	299.3	244.0	186.9	136.5	89.5	59.0	34.5	24.9	17.8
52.5°	490.7	420.7	357.6	299.3	238.8	176.5	124.3	74.9	48.8	28.7	20.9
50°	572.9	497.4	420.7	352.4	289.0	223.1	158.1	104.0	62.8	34.8	24.0
47.5°	653.9	572.9	490.7	407.5	336.9	268.3	197.2	133.8	76.3	46.8	27.1
45°	731.2	646.9	559.1	470.6	383.1	311.2	237.2	162.5	101.8	58.4	30.0
42.5°	805.6	717.4	626.0	531.7	437.6	352.3	275.6	196.2	126.5	69.4	36.8
40°	893.0	784.7	690.0	591.5	491.8	391.9	311.7	229.6	150.2	83.4	46.1
37.5°	978.6	858.1	750.2	648.8	543.9	439.5	346.0	261.4	174.4	103.4	54.8
35°	1064.0	934.7	807.7	702.7	594.2	484.7	378.5	291.3	201.4	122.3	63.2
32.5°	1145.5	1008.4	874.1	753.1	641.9	527.4	414.2	319.0	226.9	140.1	71.0
30°	1212.8	1080.1	937.7	800.6	686.3	568.3	450.7	345.0	250.7	156.8	80.0
27.5°	1273.1	1147.3	997.9	852.7	727.1	606.5	484.7	369.3	272.9	173.8	93.5
25°	1326.6	1202.2	1055.6	903.6	764.8	641.9	516.1	391.9	293.0	191.8	105.9
22.5°	1369.5	1250.0	1108.7	950.3	799.4	674.2	545.1	417.7	311.2	208.3	117.2
20°	1408.6	1293.5	1156.8	993.0	835.0	702.7	571.6	441.0	327.6	223.1	127.4
17.5°	1472.7	1329.2	1193.9	1032.5	869.5	728.1	595.1	461.8	342.3	236.3	136.5
15°	1661.1	1357.6	1225.2	1067.0	899.7	750.2	615.7	479.9	355.0	247.8	144.4
12.5°	1822.5	1381.8	1252.0	1096.5	925.5	769.1	633.2	495.3	365.8	257.6	151.1
10°	1956.0	1401.9	1274.2	1120.9	946.7	784.7	647.7	508.0	374.8	265.6	156.6
7.5°	2060.7	1417.6	1291.5	1139.9	963.3	796.9	658.9	517.9	381.7	271.9	160.9
5°	2136.0	1428.8	1303.9	1153.5	975.2	805.6	667.0	525.0	386.7	276.4	164.0
2.5°	2181.3	1435.6	1311.4	1161.8	982.4	810.8	671.9	529.3	389.7	279.1	165.9
0°	2196.5	1437.9	1313.9	1164.5	984.8	812.6	673.5	530.7	390.7	280.0	166.5
-2.5°	2181.3	1435.6	1311.4	1161.8	982.4	810.8	671.9	529.3	389.7	279.1	165.9
-5°	2136.0	1428.8	1303.9	1153.5	975.2	805.6	667.0	525.0	386.7	276.4	164.0
-7.5°	2060.7	1417.6	1291.5	1139.9	963.3	796.9	658.9	517.9	381.7	271.9	160.9
-10°	1956.0	1401.9	1274.2	1120.9	946.7	784.7	647.7	508.0	374.8	265.6	156.6
-12.5°	1822.5	1381.8	1252.0	1096.5	925.5	769.1	633.2	495.3	365.8	257.6	151.1
-15°	1661.1	1357.6	1225.2	1067.0	899.7	750.2	615.7	479.9	355.0	247.8	144.4
-17.5°	1472.7	1329.2	1193.9	1032.5	869.5	728.1	595.1	461.8	342.3	236.3	136.5
-20°	1408.6	1293.5	1156.8	993.0	835.0	702.7	571.6	441.0	327.6	223.1	127.4



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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°	1369.5	1250.0	1108.7	950.3	799.4	674.2	545.1	417.7	311.2	208.3	117.2
-25°	1326.6	1202.2	1055.6	903.6	764.8	641.9	516.1	391.9	293.0	191.8	105.9
-27.5°	1273.1	1147.3	997.9	852.7	727.1	606.5	484.7	369.3	272.9	173.8	93.5
-30°	1212.8	1080.1	937.7	800.6	686.3	568.3	450.7	345.0	250.7	156.8	80.0
-32.5°	1145.5	1008.4	874.1	753.1	641.9	527.4	414.2	319.0	226.9	140.1	71.0
-35°	1064.0	934.7	807.7	702.7	594.2	484.7	378.5	291.3	201.4	122.3	63.2
-37.5°	978.6	858.1	750.2	648.8	543.9	439.5	346.0	261.4	174.4	103.4	54.8
-40°	893.0	784.7	690.0	591.5	491.8	391.9	311.7	229.6	150.2	83.4	46.1
-42.5°	805.6	717.4	626.0	531.7	437.6	352.3	275.6	196.2	126.5	69.4	36.8
-45°	731.2	646.9	559.1	470.6	383.1	311.2	237.2	162.5	101.8	58.4	30.0
-47.5°	653.9	572.9	490.7	407.5	336.9	268.3	197.2	133.8	76.3	46.8	27.1
-50°	572.9	497.4	420.7	352.4	289.0	223.1	158.1	104.0	62.8	34.8	24.0
-52.5°	490.7	420.7	357.6	299.3	238.8	176.5	124.3	74.9	48.8	28.7	20.9
-55°	407.5	352.4	299.3	244.0	186.9	136.5	89.5	59.0	34.5	24.9	17.8
-57.5°	336.9	289.0	238.8	186.9	140.6	97.6	65.1	42.5	27.9	21.1	16.1
-60°	268.3	223.1	176.5	136.5	97.6	67.1	46.6	29.6	23.4	17.6	14.4
-62.5°	197.2	158.1	124.3	89.5	65.1	46.6	30.2	24.6	18.9	15.6	12.7
-65°	133.8	104.0	74.9	59.0	42.5	29.6	24.6	19.5	16.2	13.5	11.0
-67.5°	76.3	62.8	48.8	34.5	27.9	23.4	18.9	16.2	13.8	11.5	9.7
-70°	46.8	34.8	28.7	24.9	21.1	17.6	15.6	13.5	11.5	9.9	8.3
-72.5°	27.1	24.0	20.9	17.8	16.1	14.4	12.7	11.0	9.7	8.3	7.0
-75°	18.4	16.9	15.5	14.1	12.7	11.3	10.2	9.1	7.9	6.8	6.0
-77.5°	13.8	12.7	11.6	10.7	9.8	8.9	8.0	7.1	6.3	5.8	5.2
-80°	9.9	9.3	8.7	8.0	7.3	6.6	6.2	5.7	5.3	4.8	4.4
-82.5°	6.7	6.4	6.1	5.8	5.5	5.2	4.9	4.5	4.2	3.9	3.4
-85°	4.8	4.6	4.4	4.2	4.0	3.8	3.5	3.2	2.9	2.6	2.3
-87.5°	2.6	2.4	2.3	2.2	2.0	1.9	1.8	1.6	1.5	1.3	1.1
-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°	1.0	0.8	0.7	0.5	0.3	0.2	0.0
85°	2.0	1.6	1.3	1.0	0.7	0.3	0.0
82.5°	2.9	2.5	2.0	1.5	1.0	0.5	0.0
80°	3.9	3.3	2.6	2.0	1.3	0.7	0.0
77.5°	4.6	4.0	3.3	2.5	1.6	0.8	0.0
75°	5.3	4.6	3.9	2.9	2.0	1.0	0.0
72.5°	6.0	5.2	4.4	3.4	2.3	1.1	0.0
70°	6.8	5.8	4.8	3.9	2.6	1.3	0.0
67.5°	7.9	6.3	5.3	4.2	2.9	1.5	0.0
65°	9.1	7.1	5.7	4.5	3.2	1.6	0.0
62.5°	10.2	8.0	6.2	4.9	3.5	1.8	0.0
60°	11.3	8.9	6.6	5.2	3.8	1.9	0.0
57.5°	12.7	9.8	7.3	5.5	4.0	2.0	0.0
55°	14.1	10.7	8.0	5.8	4.2	2.2	0.0
52.5°	15.5	11.6	8.7	6.1	4.4	2.3	0.0
50°	16.9	12.7	9.3	6.4	4.6	2.4	0.0
47.5°	18.4	13.8	9.9	6.7	4.8	2.6	0.0
45°	20.9	14.8	10.5	7.2	5.0	2.7	0.0
42.5°	23.3	15.8	11.1	7.6	5.1	2.8	0.0
40°	25.6	16.8	11.8	8.0	5.3	2.9	0.0
37.5°	27.8	17.7	12.5	8.4	5.4	3.0	0.0
35°	29.8	19.1	13.2	8.8	5.6	3.1	0.0
32.5°	33.2	20.7	13.8	9.1	5.7	3.2	0.0
30°	39.4	22.2	14.4	9.5	5.8	3.3	0.0
27.5°	45.2	23.6	15.0	9.8	6.0	3.4	0.0
25°	50.6	24.9	15.5	10.0	6.1	3.4	0.0
22.5°	55.4	26.1	16.0	10.3	6.2	3.5	0.0
20°	59.8	27.2	16.4	10.5	6.3	3.6	0.0
17.5°	63.7	28.1	16.8	10.7	6.3	3.6	0.0
15°	67.1	28.9	17.1	10.9	6.4	3.7	0.0
12.5°	70.0	29.6	17.4	11.1	6.5	3.7	0.0
10°	72.4	30.2	17.6	11.2	6.5	3.7	0.0
7.5°	74.2	30.6	17.8	11.3	6.6	3.8	0.0
5°	75.5	30.9	17.9	11.3	6.6	3.8	0.0
2.5°	76.3	31.1	18.0	11.4	6.6	3.8	0.0
0°	76.6	31.2	18.0	11.4	6.6	3.8	0.0
-2.5°	76.3	31.1	18.0	11.4	6.6	3.8	0.0
-5°	75.5	30.9	17.9	11.3	6.6	3.8	0.0
-7.5°	74.2	30.6	17.8	11.3	6.6	3.8	0.0
-10°	72.4	30.2	17.6	11.2	6.5	3.7	0.0
-12.5°	70.0	29.6	17.4	11.1	6.5	3.7	0.0
-15°	67.1	28.9	17.1	10.9	6.4	3.7	0.0
-17.5°	63.7	28.1	16.8	10.7	6.3	3.6	0.0
-20°	59.8	27.2	16.4	10.5	6.3	3.6	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	55.4	26.1	16.0	10.3	6.2	3.5	0.0
-25°	50.6	24.9	15.5	10.0	6.1	3.4	0.0
-27.5°	45.2	23.6	15.0	9.8	6.0	3.4	0.0
-30°	39.4	22.2	14.4	9.5	5.8	3.3	0.0
-32.5°	33.2	20.7	13.8	9.1	5.7	3.2	0.0
-35°	29.8	19.1	13.2	8.8	5.6	3.1	0.0
-37.5°	27.8	17.7	12.5	8.4	5.4	3.0	0.0
-40°	25.6	16.8	11.8	8.0	5.3	2.9	0.0
-42.5°	23.3	15.8	11.1	7.6	5.1	2.8	0.0
-45°	20.9	14.8	10.5	7.2	5.0	2.7	0.0
-47.5°	18.4	13.8	9.9	6.7	4.8	2.6	0.0
-50°	16.9	12.7	9.3	6.4	4.6	2.4	0.0
-52.5°	15.5	11.6	8.7	6.1	4.4	2.3	0.0
-55°	14.1	10.7	8.0	5.8	4.2	2.2	0.0
-57.5°	12.7	9.8	7.3	5.5	4.0	2.0	0.0
-60°	11.3	8.9	6.6	5.2	3.8	1.9	0.0
-62.5°	10.2	8.0	6.2	4.9	3.5	1.8	0.0
-65°	9.1	7.1	5.7	4.5	3.2	1.6	0.0
-67.5°	7.9	6.3	5.3	4.2	2.9	1.5	0.0
-70°	6.8	5.8	4.8	3.9	2.6	1.3	0.0
-72.5°	6.0	5.2	4.4	3.4	2.3	1.1	0.0
-75°	5.3	4.6	3.9	2.9	2.0	1.0	0.0
-77.5°	4.6	4.0	3.3	2.5	1.6	0.8	0.0
-80°	3.9	3.3	2.6	2.0	1.3	0.7	0.0
-82.5°	2.9	2.5	2.0	1.5	1.0	0.5	0.0
-85°	2.0	1.6	1.3	1.0	0.7	0.3	0.0
-87.5°	1.0	0.8	0.7	0.5	0.3	0.2	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

