

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: P701639 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-40-80-4S-CV1-S**

Issue Date: 8/29/2023

Test Information

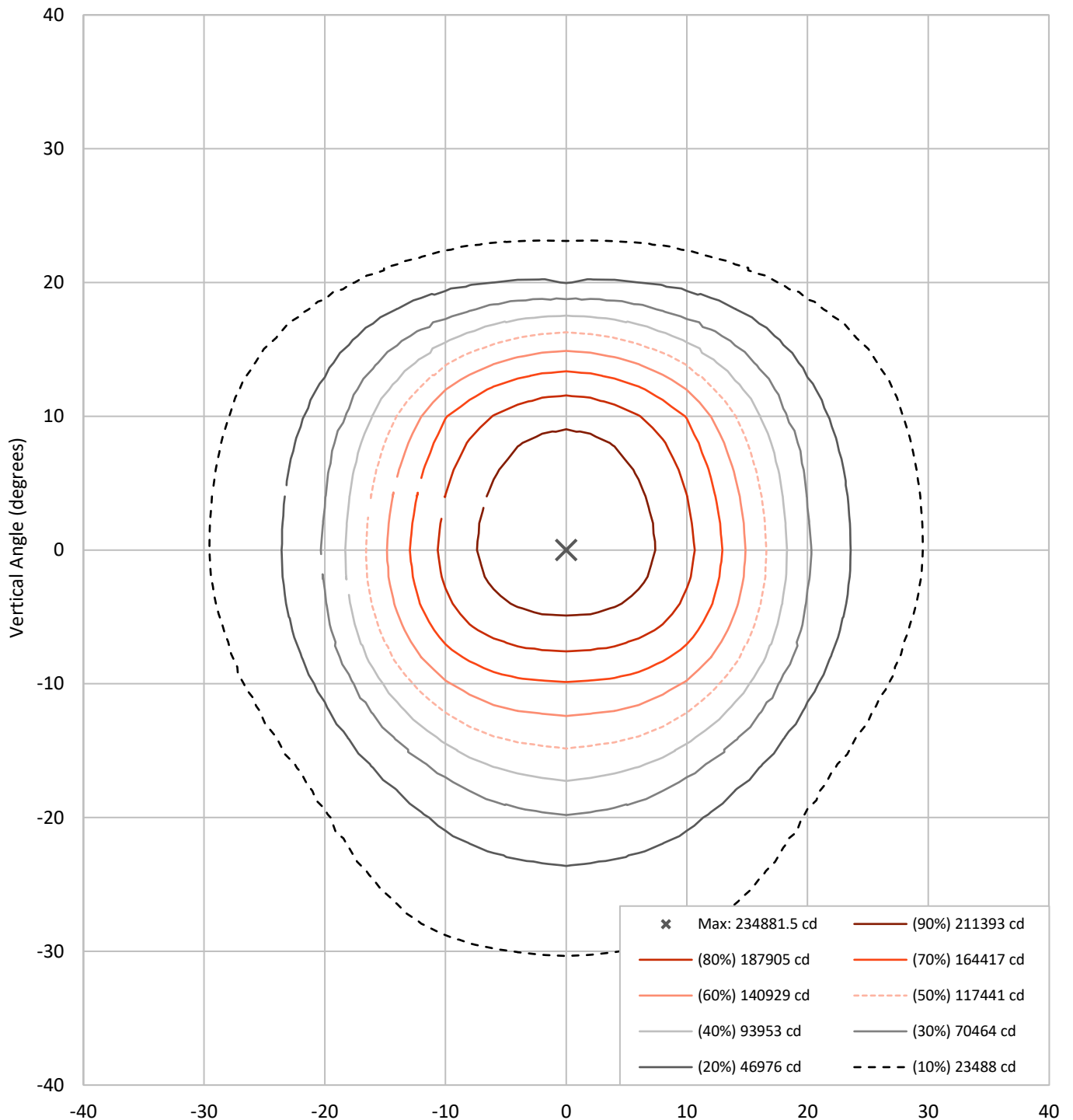
Test Method: LM-79-08
Report Number: P701639 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-27)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680R-40-80-4S-CV1-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 4S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	80029 lumens	Max Intensity:	234881.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	114.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	33.1°H x 31.1°V	Field Angle (10%):	59.1°H x 53.4°V
Beam Lumens:	43739 lumens	Field Lumens:	70477.7 lumens
Beam Efficiency:	54.7%	Field Efficiency:	88.1%
Input Watts (W):	697.5		
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





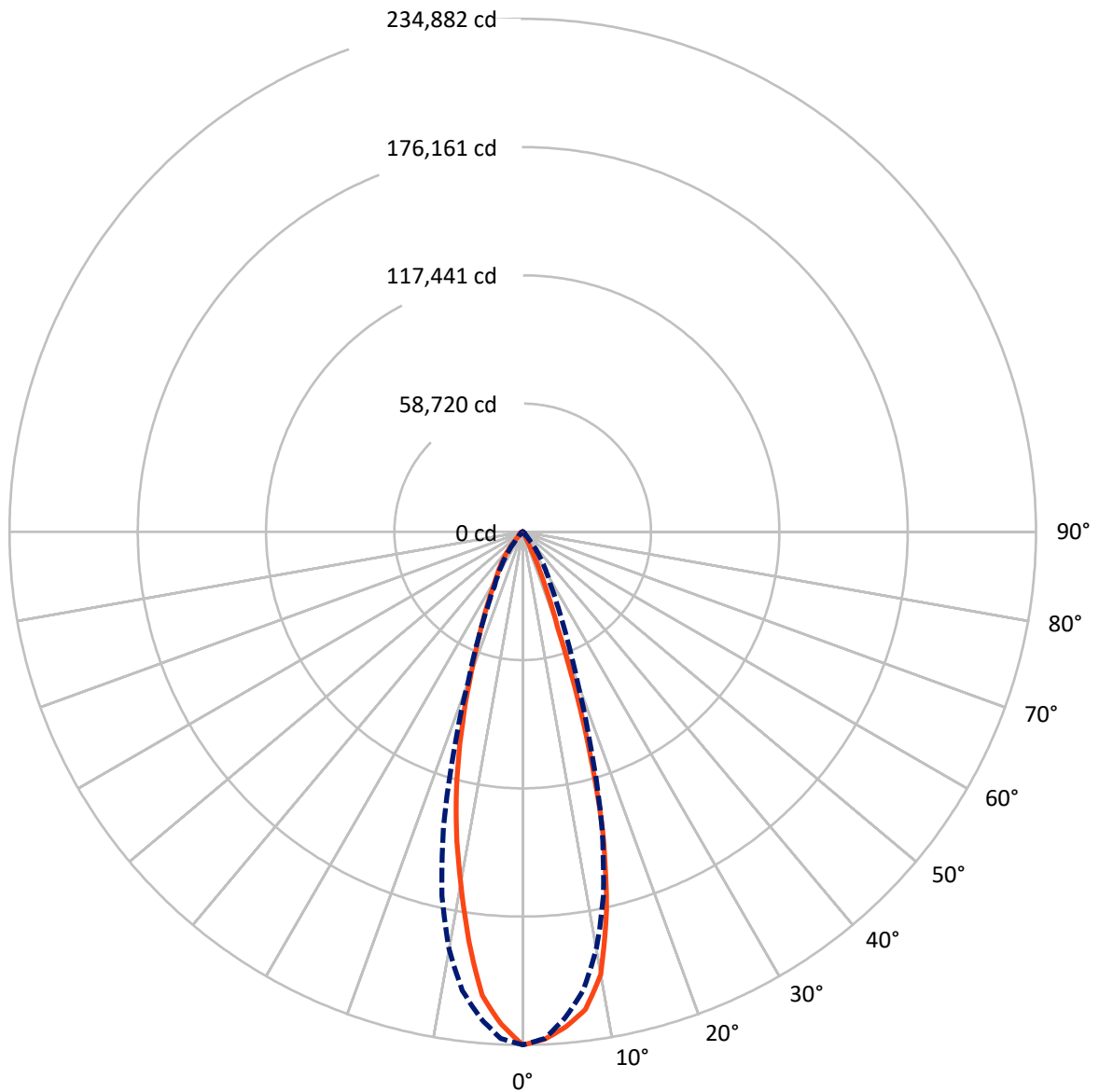
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Lumen Table

90	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.1					
80	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.1					
70	0.1	0.1	0.1	0.4	0.6	0.4	0.3	0.3	0.3	0.3	0.4	0.6	0.4	0.1	0.1	0.1
60		0.1	0.3	0.8	0.8	0.3	0.3	0.3	0.3	0.3	0.3	0.8	0.8	0.3	0.1	
50	0.1	0.1	0.4	0.6	0.6	0.8	0.9	0.9	0.9	0.9	0.8	0.6	0.6	0.4	0.1	0.1
40		0.2	0.9	2.4	4.3	7.5	11.4	14.1	14.1	11.4	7.5	4.3	2.4	0.9	0.2	
30	0.1	0.4	3.9	12.0	47.5	148.3	297.0	482.2	482.2	297.0	148.3	47.5	12.0	3.9	0.4	0.1
20		1.2	8.9	29.0	196.3	670.6	2001.2	3731.1	3731.1	2001.2	670.6	196.3	29.0	8.9	1.2	
10	0.2	2.0	12.2	41.4	305.9	1089.5	3736.1	6399.2	6399.2	3736.1	1089.5	305.9	41.4	12.2	2.0	0.2
0		2.5	13.1	42.6	302.0	1051.0	3616.2	5956.5	5956.5	3616.2	1051.0	302.0	42.6	13.1	2.5	
-10	0.5	3.0	12.5	32.9	179.5	593.8	1824.9	3252.9	3252.9	1824.9	593.8	179.5	32.9	12.5	3.0	0.5
-20		3.1	12.0	25.4	84.5	321.9	741.6	1183.1	1183.1	741.6	321.9	84.5	25.4	12.0	3.1	
-30	0.4	2.5	10.8	21.6	41.7	119.6	299.4	454.9	454.9	299.4	119.6	41.7	21.6	10.8	2.5	0.4
-40		1.6	7.8	18.5	31.2	47.6	72.4	98.3	98.3	72.4	47.6	31.2	18.5	7.8	1.6	
-50	0.2	0.8	4.0	12.1	23.4	33.8	43.4	49.7	49.7	43.4	33.8	23.4	12.1	4.0	0.8	0.2
-60		0.3	1.4	4.3	9.4	15.7	22.1	25.7	25.7	22.1	15.7	9.4	4.3	1.4	0.3	
-70	0.1	0.7	3.0	7.5	10.0	7.5	3.0	0.7	0.1						0.1	
-80		0.1	0.7	3.0	7.5	10.0	7.5	3.0	0.7	0.1						
-90	0.1	0.7	3.0	7.5	10.0	7.5	3.0	0.7	0.1							

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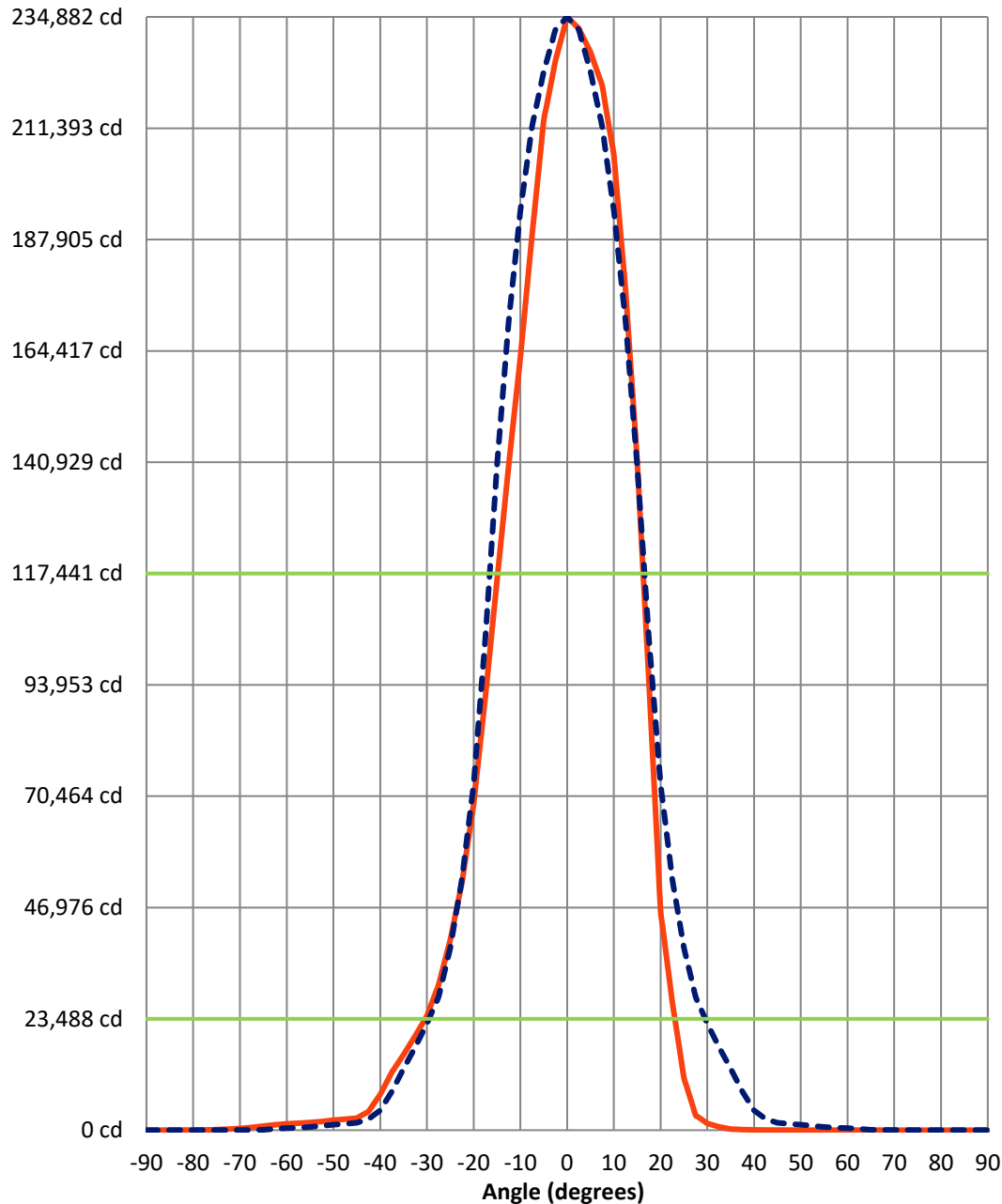
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 33.1°
 V Angle: 31.1°
 Lumens: 43739
 Efficiency: 54.7%

Field:
 H Angle: 59.1°
 V Angle: 53.4°
 Lumens: 70477.7
 Efficiency: 88.1%

Spill:
 Lumens: 9551.3
 Efficiency: 11.9%

- 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°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
87.5°	4.1	3.1	2.2	2.2	2.2	2.1	2.0	2.0	2.0	2.0	2.0
85°	4.1	3.1	2.4	2.4	2.4	2.2	2.0	2.0	2.0	2.0	2.0
82.5°	4.1	3.2	2.6	2.6	2.6	2.4	2.0	2.0	2.0	2.1	2.0
80°	4.1	3.2	2.7	2.8	2.7	2.5	2.1	2.3	2.4	2.3	2.0
77.5°	4.1	3.3	2.9	3.0	2.9	2.7	2.6	2.8	2.8	2.6	2.3
75°	4.1	3.3	3.1	3.3	3.1	3.0	3.2	3.3	3.2	3.1	3.2
72.5°	4.1	3.4	3.3	3.5	3.3	3.4	3.7	3.8	3.5	3.6	4.0
70°	4.1	3.5	3.5	3.7	3.5	3.7	4.1	3.9	3.8	4.1	4.1
67.5°	4.1	3.5	3.6	3.8	3.7	4.0	4.1	4.0	4.1	4.1	4.1
65°	4.1	3.6	3.8	3.8	3.8	4.1	4.1	4.1	4.1	4.1	4.1
62.5°	4.1	3.6	4.0	3.9	4.0	4.1	4.1	4.1	4.1	4.1	4.1
60°	4.1	3.6	4.1	3.9	4.1	4.1	4.1	4.1	4.1	4.1	4.1
57.5°	4.1	3.7	4.1	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1
55°	4.1	3.7	4.1	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1
52.5°	4.1	3.8	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
50°	4.1	3.8	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	5.3
47.5°	4.1	3.8	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	6.6
45°	4.1	3.9	4.1	4.1	4.1	4.1	4.1	4.1	4.2	5.2	7.9
42.5°	4.1	3.9	4.1	4.1	4.1	4.1	4.1	4.2	4.3	6.3	9.6
40°	4.1	3.9	4.1	4.1	4.1	4.1	4.1	4.3	4.8	7.4	11.3
37.5°	4.1	4.0	4.1	4.1	4.1	4.1	4.1	4.5	5.8	8.7	13.1
35°	4.1	4.0	4.1	4.1	4.1	4.1	4.1	4.8	6.8	10.3	14.6
32.5°	4.1	4.0	4.1	4.1	4.1	4.1	4.2	5.0	7.7	11.8	16.1
30°	4.1	4.0	4.1	4.1	4.1	4.1	4.4	5.5	8.6	13.3	17.9
27.5°	4.1	4.0	4.1	4.1	4.1	4.1	4.6	6.2	9.6	14.7	19.9
25°	4.1	4.1	4.1	4.1	4.1	4.1	4.8	6.9	10.7	16.2	22.3
22.5°	4.1	4.1	4.1	4.1	4.1	4.1	5.1	7.5	11.8	17.9	27.1
20°	4.1	4.1	4.1	4.1	4.1	4.3	5.3	8.1	12.7	19.8	32.3
17.5°	4.1	4.1	4.1	4.1	4.1	4.5	5.7	8.7	13.6	21.7	37.8
15°	4.1	4.1	4.1	4.1	4.1	4.7	6.1	9.4	14.4	23.6	43.4
12.5°	4.1	4.1	4.1	4.1	4.1	4.9	6.5	10.2	15.7	25.6	49.2
10°	4.1	4.1	4.1	4.1	4.1	5.1	6.8	11.1	17.5	29.0	55.2
7.5°	4.1	4.1	4.1	4.1	4.1	5.4	7.2	12.0	19.3	32.6	61.5
5°	4.1	4.1	4.1	4.1	4.1	5.6	7.5	12.8	21.1	36.2	67.3
2.5°	4.1	4.1	4.1	4.1	4.1	5.9	7.8	13.5	22.8	39.5	72.5
0°	4.1	4.1	4.1	4.1	4.1	6.1	8.1	14.2	24.3	42.6	77.1
-2.5°	4.1	4.1	4.1	4.1	4.3	6.8	10.0	18.0	32.7	57.5	99.4
-5°	4.1	4.1	4.1	4.1	4.4	7.4	11.8	21.6	40.7	71.7	120.6
-7.5°	4.1	4.1	4.1	4.1	4.6	8.0	13.5	25.0	48.1	85.0	140.2
-10°	4.1	4.1	4.1	4.1	4.8	8.5	15.1	28.1	54.7	96.9	158.0
-12.5°	4.1	4.1	4.1	4.1	4.9	8.9	16.5	30.8	60.4	107.2	173.7
-15°	4.1	4.1	4.1	4.1	5.0	9.3	17.6	33.1	65.0	115.0	186.6
-17.5°	4.1	4.1	4.1	4.1	5.1	9.5	18.5	35.2	68.5	121.0	196.2
-20°	4.1	4.1	4.1	4.1	5.1	9.7	19.3	37.1	70.7	124.7	202.0



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 CATALOG NUMBER: EPH-LS-08-0680R-40-80-4S-CV1-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.1	4.1	4.1	4.1	5.2	9.7	20.0	38.4	71.4	126.0	203.8
-25°	4.1	4.1	4.1	4.1	5.2	9.8	20.3	38.9	70.7	124.8	201.3
-27.5°	4.1	4.1	4.1	4.1	5.1	9.8	20.2	38.7	68.3	122.1	199.5
-30°	4.1	4.1	4.1	4.1	5.0	9.6	19.7	37.7	66.8	119.2	194.3
-32.5°	4.1	4.1	4.1	4.1	5.1	9.2	18.7	36.9	65.5	114.0	185.6
-35°	4.1	4.1	4.1	4.1	5.2	8.6	18.0	35.6	63.1	106.6	173.1
-37.5°	4.1	4.1	4.1	4.1	5.2	8.2	17.3	33.7	59.5	96.9	157.8
-40°	4.1	4.1	4.1	4.1	5.1	8.1	16.2	31.1	54.7	89.9	142.3
-42.5°	4.1	4.1	4.1	4.1	5.1	8.1	14.9	27.8	50.3	82.0	124.6
-45°	4.1	4.1	4.1	4.2	5.2	7.9	13.3	24.7	45.7	72.9	106.0
-47.5°	4.1	4.1	4.1	4.2	5.3	7.7	11.4	22.5	40.2	63.0	94.8
-50°	4.1	4.1	4.1	4.2	5.2	7.5	10.9	19.8	33.2	54.9	82.4
-52.5°	4.1	4.1	4.1	4.3	5.2	7.2	10.5	16.8	28.1	45.8	69.3
-55°	4.1	4.1	4.1	4.3	5.1	7.0	10.0	13.7	23.9	35.9	57.7
-57.5°	4.1	4.1	4.1	4.3	5.0	6.7	9.5	13.0	19.4	29.5	45.0
-60°	4.1	4.1	4.1	4.2	4.8	6.4	8.9	12.1	15.4	24.2	33.9
-62.5°	4.1	4.1	4.1	4.2	4.8	6.0	8.3	11.2	14.3	18.6	27.6
-65°	4.1	4.1	4.1	4.2	4.7	5.6	7.6	10.2	13.0	16.2	21.1
-67.5°	4.1	4.1	4.1	4.2	4.5	5.3	6.9	9.2	11.6	14.5	17.7
-70°	4.1	4.1	4.1	4.1	4.4	5.0	6.0	8.2	10.4	12.7	15.5
-72.5°	4.1	4.1	4.1	4.1	4.3	4.8	5.6	7.1	9.2	11.3	13.5
-75°	4.1	4.1	4.1	4.1	4.1	4.5	5.1	6.4	8.0	9.9	11.9
-77.5°	4.1	4.1	4.1	4.1	4.1	4.2	4.6	5.7	7.0	8.6	10.3
-80°	4.1	4.1	4.1	4.1	4.1	4.1	4.2	5.0	6.1	7.3	8.7
-82.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.5	5.1	6.1	7.1
-85°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.4	4.8	5.2	5.8
-87.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.2	4.4	4.7	4.9
-90°	4.1	3.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



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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°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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	2.2	2.4	2.6	2.8
80°	2.0	2.0	2.1	2.0	2.2	2.5	3.0	3.6	4.0	4.1	4.1
77.5°	2.5	2.6	2.4	2.1	2.4	2.9	3.4	4.0	4.1	4.1	4.1
75°	3.3	3.2	2.7	2.2	2.3	2.8	3.4	3.9	4.1	4.1	4.1
72.5°	3.8	3.3	2.8	2.3	2.7	3.4	3.8	4.1	5.0	6.3	7.0
70°	3.9	3.4	3.2	3.3	3.7	4.5	6.3	8.5	10.7	11.5	12.2
67.5°	4.0	3.7	3.8	4.3	5.7	7.7	10.2	13.4	16.6	17.7	18.9
65°	4.1	4.0	4.6	5.9	7.9	11.0	14.5	18.2	23.8	26.5	27.8
62.5°	4.1	4.4	5.4	7.6	10.9	14.6	19.3	25.3	32.7	37.4	37.2
60°	4.1	4.6	6.8	10.1	13.9	18.3	24.3	32.6	43.0	50.4	45.4
57.5°	4.1	5.5	8.7	12.4	16.5	21.4	29.7	40.0	49.5	59.5	51.0
55°	4.7	6.9	10.5	14.5	19.3	25.1	33.2	41.4	51.8	55.6	46.5
52.5°	6.2	8.5	12.0	16.7	22.5	27.2	31.6	38.9	42.8	44.6	38.3
50°	7.7	10.3	13.5	19.2	24.2	26.8	27.4	31.9	33.8	32.2	29.2
47.5°	9.4	12.1	15.5	21.0	24.4	25.6	24.6	25.5	25.4	25.1	21.1
45°	11.2	14.3	17.9	21.6	24.1	23.9	23.4	20.6	23.4	22.6	20.7
42.5°	13.1	16.4	20.0	22.5	23.1	24.4	24.2	25.1	25.1	26.3	28.4
40°	14.9	18.4	22.4	24.2	23.6	27.3	32.8	35.5	31.9	38.6	44.2
37.5°	16.4	20.9	26.1	30.2	27.9	36.2	45.0	59.3	61.4	57.0	72.8
35°	17.8	23.7	34.6	44.3	46.7	50.6	75.5	98.3	112.4	104.1	116.2
32.5°	19.9	26.8	46.3	67.3	84.0	88.7	114.9	162.7	190.5	195.2	187.3
30°	23.4	37.7	63.7	96.4	133.6	167.1	190.1	244.7	290.2	339.8	369.3
27.5°	28.6	51.8	91.7	142.2	198.4	260.9	312.7	354.8	438.1	522.6	595.2
25°	34.7	80.5	123.6	199.6	288.8	375.0	447.2	511.7	621.4	753.3	973.9
22.5°	49.7	117.4	176.9	264.1	389.4	498.5	595.9	696.2	830.1	1007.8	1469.2
20°	76.6	163.3	237.7	330.5	493.2	627.2	750.8	877.0	1044.7	1416.8	2429.1
17.5°	107.5	211.4	296.2	403.8	570.5	741.0	910.7	1049.6	1252.8	1801.9	3486.2
15°	141.5	260.8	349.1	470.8	643.8	829.3	1018.9	1217.7	1527.6	2315.0	4489.5
12.5°	177.4	310.8	396.7	531.5	712.6	913.3	1105.6	1321.0	1775.6	3093.6	5766.0
10°	214.1	360.5	439.7	586.2	776.5	992.1	1183.1	1407.9	1969.9	3591.8	6657.4
7.5°	237.5	395.8	474.7	634.8	834.9	1064.9	1251.6	1479.6	2134.7	3908.1	7280.4
5°	255.3	413.8	486.3	656.7	873.2	1117.9	1304.7	1537.1	2267.4	4062.8	7711.0
2.5°	268.8	428.0	495.7	669.8	896.6	1142.7	1320.5	1558.8	2322.3	4156.2	8009.3
0°	277.9	438.2	503.1	677.5	912.9	1158.3	1328.7	1570.1	2330.8	4182.9	8154.8
-2.5°	293.1	446.3	518.3	691.2	921.5	1163.2	1335.5	1579.0	2364.9	4308.0	8377.1
-5°	304.3	451.0	531.2	699.6	922.7	1159.6	1335.5	1576.9	2345.2	4264.5	8096.7
-7.5°	311.9	453.0	541.3	702.5	910.4	1134.2	1308.3	1531.9	2222.2	3990.3	7335.2
-10°	317.4	459.6	554.1	698.2	883.5	1092.9	1269.9	1477.3	2063.6	3604.9	6452.8
-12.5°	326.0	470.3	566.6	691.9	855.3	1045.6	1225.4	1413.9	1871.4	3108.6	5455.5
-15°	330.3	479.2	578.3	684.7	827.6	993.0	1174.9	1342.5	1656.0	2509.9	4348.2
-17.5°	330.3	486.6	589.3	677.3	802.0	935.9	1124.4	1290.7	1504.2	2141.6	3576.4
-20°	326.2	492.8	600.0	670.6	780.8	900.5	1083.2	1254.1	1442.2	1865.9	2810.7



REPORT NUMBER: P701639 (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°	317.8	498.1	606.9	676.0	773.1	885.7	1036.1	1210.4	1377.7	1571.3	2226.1
-25°	312.2	484.8	607.7	681.4	764.9	870.1	985.2	1159.0	1317.4	1503.9	1918.1
-27.5°	308.6	466.5	596.6	682.7	754.8	854.7	955.8	1098.5	1271.4	1444.6	1633.9
-30°	299.0	433.1	581.1	676.4	750.7	840.6	935.9	1043.4	1218.4	1386.4	1560.8
-32.5°	280.0	398.2	546.9	656.0	743.9	825.1	915.7	1012.5	1150.9	1324.2	1484.4
-35°	258.0	371.0	504.7	630.4	730.7	809.7	892.5	983.9	1085.9	1243.2	1421.3
-37.5°	237.5	339.5	461.3	592.7	698.0	793.6	865.9	952.5	1047.2	1155.8	1333.6
-40°	213.2	303.7	420.6	544.3	662.4	767.2	848.6	918.0	1005.6	1116.0	1226.4
-42.5°	186.2	272.6	376.7	494.6	611.5	723.2	828.6	896.3	973.7	1076.7	1182.3
-45°	163.8	237.4	329.8	438.9	551.4	668.0	775.0	880.8	954.9	1037.5	1137.8
-47.5°	138.9	201.2	285.7	378.8	486.0	596.7	711.4	821.3	934.4	1013.5	1092.2
-50°	115.0	170.3	236.7	322.4	415.9	520.2	628.1	748.8	862.7	972.9	1064.1
-52.5°	99.8	136.5	196.2	265.3	348.4	439.2	542.2	653.7	771.2	888.2	988.4
-55°	83.5	114.4	155.5	214.6	282.5	362.2	450.7	552.9	659.3	771.4	877.5
-57.5°	67.9	94.6	125.0	166.3	223.9	286.7	363.5	447.6	543.2	642.4	731.1
-60°	52.0	74.7	100.9	130.9	167.4	221.2	276.3	345.9	425.4	505.5	582.8
-62.5°	37.0	55.4	77.3	102.0	130.8	160.0	203.9	254.8	307.5	372.5	436.7
-65°	29.6	38.3	54.5	75.2	97.1	122.3	148.5	175.2	218.3	261.3	302.4
-67.5°	21.9	29.6	37.8	48.6	67.4	86.1	106.5	129.7	153.3	175.1	201.4
-70°	18.5	21.3	27.5	35.0	42.4	51.3	67.6	85.2	103.3	120.5	138.8
-72.5°	15.9	18.6	21.1	23.6	29.4	35.0	40.1	44.9	55.2	69.6	83.5
-75°	13.7	15.8	18.1	20.4	22.3	24.0	26.3	30.7	35.0	39.2	43.1
-77.5°	11.5	13.0	14.7	16.9	18.5	19.7	21.0	22.4	24.4	26.5	28.7
-80°	9.5	10.1	11.1	12.4	13.9	15.1	16.3	17.2	18.3	19.7	21.3
-82.5°	7.6	8.1	8.5	9.0	9.8	10.7	11.8	12.9	13.6	14.3	15.1
-85°	5.9	6.1	6.4	6.7	7.1	7.5	8.0	8.6	9.2	9.8	10.3
-87.5°	5.0	5.1	5.2	5.2	5.3	5.4	5.5	5.5	5.9	6.4	6.9
-90°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	4.1	4.6	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.1	8.1
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	3.0	2.9	2.7	2.4	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	4.1	3.8	3.6	3.4	3.3	3.1	2.8	2.5	2.0	2.0	2.0
77.5°	4.1	4.1	4.1	4.1	4.1	3.7	3.1	2.6	2.1	2.0	2.0
75°	4.1	4.2	4.5	4.5	4.2	3.9	3.8	3.7	3.7	3.4	3.0
72.5°	7.3	7.2	6.9	6.8	6.6	6.5	6.6	6.3	5.8	5.7	5.8
70°	12.9	13.3	13.3	12.8	11.6	10.4	9.6	8.8	7.9	7.4	7.1
67.5°	20.0	20.1	19.0	17.2	14.4	11.9	10.8	9.7	8.6	8.3	8.7
65°	27.7	25.2	22.2	18.9	15.4	12.0	11.1	10.4	9.8	9.9	10.6
62.5°	34.2	27.7	22.2	18.4	15.1	12.0	11.0	10.1	9.3	8.7	8.6
60°	37.9	27.8	20.0	16.5	13.4	10.5	9.3	8.7	8.3	8.1	8.1
57.5°	37.9	26.3	17.4	14.3	11.5	9.0	8.1	8.1	8.1	8.1	8.1
55°	33.7	22.9	14.9	12.3	10.4	8.9	8.2	8.4	8.4	8.1	8.5
52.5°	26.4	19.0	13.9	11.5	10.7	10.2	9.9	9.8	9.7	9.4	9.7
50°	21.0	15.8	13.4	12.0	11.9	12.0	12.0	12.1	12.4	12.6	12.7
47.5°	17.6	14.8	15.1	13.9	14.4	15.7	15.9	16.1	16.7	16.8	16.5
45°	18.0	20.9	21.5	21.2	20.9	23.8	23.7	21.7	24.3	25.1	24.5
42.5°	29.8	32.3	34.0	35.5	37.3	39.5	40.7	40.1	42.4	42.4	39.7
40°	50.4	48.1	51.8	56.5	60.6	62.1	66.0	70.0	71.5	70.6	67.9
37.5°	82.7	79.1	79.4	89.7	99.2	88.0	104.5	111.1	106.9	121.7	124.7
35°	137.3	151.8	130.9	167.9	186.3	177.2	197.0	236.1	205.8	261.2	274.7
32.5°	244.1	279.0	300.9	332.2	378.1	438.5	453.7	550.0	580.9	625.5	673.6
30°	398.9	497.5	679.0	712.8	756.6	964.8	1022.1	1074.4	1184.0	1268.5	1412.2
27.5°	724.9	990.6	1370.1	1704.2	1679.7	2032.0	2424.1	1985.1	2636.4	2375.1	2999.9
25°	1357.5	1943.3	2858.2	3743.5	4166.1	4883.9	5781.7	5611.7	6796.3	6878.5	8625.7
22.5°	2581.9	3854.6	5253.6	6758.7	8218.6	9834.3	11386.9	13014.4	15461.5	18842.4	22128.4
20°	4224.5	6095.6	8355.2	10685.5	13156.5	15669.3	18588.6	23532.4	28601.3	35637.4	40608.1
17.5°	6004.2	8982.3	11756.1	14643.2	18097.8	22274.6	28313.3	36760.6	47006.8	57524.6	65661.3
15°	7558.8	10927.8	14926.1	18775.1	23070.9	29340.3	38824.8	51337.0	66574.3	82563.7	101898.7
12.5°	9063.0	12582.1	16927.1	21795.6	27633.1	36606.5	48900.7	65809.7	85995.4	110022.6	134856.1
10°	10230.4	14091.7	18927.6	24410.4	31535.3	42556.5	56843.1	76806.4	106718.6	135082.5	163440.6
7.5°	11142.6	15486.4	20608.9	26363.1	34659.2	47069.1	64161.8	89292.0	120896.7	151585.5	177705.4
5°	11953.4	16633.2	21747.9	27463.7	36908.1	50352.4	68758.8	97458.5	131185.0	161346.2	186201.5
2.5°	12592.1	17383.0	22373.6	28015.0	38355.7	52164.9	71183.2	101841.2	137816.6	167593.7	191327.2
0°	12978.8	17516.7	22478.5	28132.1	38465.7	52986.1	73075.0	103759.1	140182.0	170651.0	193993.8
-2.5°	12840.2	17217.2	22138.4	27788.0	38102.9	52216.5	71553.3	102787.3	138177.6	166684.2	190160.8
-5°	12150.0	16237.3	20807.0	26122.7	35696.1	49292.8	67239.8	95721.7	128987.1	157445.3	179537.0
-7.5°	11061.8	14867.9	19063.3	23984.3	32263.1	44549.5	60903.9	85141.9	115340.3	141598.6	161535.1
-10°	9844.3	13280.3	16915.3	21273.9	27745.1	38174.2	51831.3	70338.8	96238.2	119847.5	138697.7
-12.5°	8381.0	11239.6	14295.2	18054.1	22958.8	31461.0	42943.4	57956.6	75964.5	96973.6	114134.8
-15°	6860.1	9263.4	11792.6	15318.4	19501.5	24917.3	33171.0	45106.4	58473.3	72822.8	88393.5
-17.5°	5508.9	7543.6	10225.2	13194.9	16383.1	20151.9	26976.2	35110.3	44783.9	55019.1	64416.3
-20°	4425.3	6583.3	8992.4	11574.9	14504.4	18128.5	22320.7	28500.5	35674.3	43531.2	51059.1



REPORT NUMBER: P701639 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-4S-CV1-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3640.4	5575.7	7812.7	10235.2	13198.9	16461.4	19856.5	23734.9	28883.0	34923.6	40706.7
-25°	2772.7	4389.9	6560.0	9003.1	11733.3	14610.4	17366.3	20527.7	24291.4	28221.7	32271.3
-27.5°	2197.7	3339.3	5121.2	7415.5	9941.7	12194.3	14555.4	17187.9	20479.2	23898.7	26151.9
-30°	1793.7	2462.2	3799.7	5592.2	7703.6	9691.5	11630.2	13996.1	16579.7	19033.9	21025.8
-32.5°	1675.7	1974.7	2666.8	3944.3	5530.0	7304.4	9044.7	11156.7	13162.0	15104.1	16816.7
-35°	1592.3	1783.5	2044.6	2711.0	3666.2	5108.1	6698.2	8485.4	10295.3	11864.2	13316.7
-37.5°	1514.6	1680.6	1853.4	2025.4	2563.0	3223.0	4342.9	5756.4	7129.4	8398.9	9649.2
-40°	1403.8	1585.6	1725.3	1872.3	2032.2	2213.9	2800.0	3377.6	4049.7	5023.3	5876.2
-42.5°	1286.2	1437.8	1596.8	1734.4	1868.2	2007.8	2155.5	2302.3	2609.5	2991.6	3304.4
-45°	1237.1	1328.3	1437.6	1581.3	1715.7	1841.1	1961.3	2077.5	2200.3	2312.4	2403.9
-47.5°	1178.3	1261.2	1349.6	1443.3	1542.0	1663.1	1782.1	1900.4	2007.8	2107.6	2187.2
-50°	1124.0	1189.2	1268.2	1347.8	1426.8	1508.0	1590.1	1681.4	1784.0	1885.1	1968.2
-52.5°	1079.6	1139.3	1195.8	1252.3	1320.9	1389.8	1458.8	1531.5	1601.5	1667.8	1719.5
-55°	971.8	1055.8	1138.6	1191.9	1238.1	1285.0	1337.2	1402.4	1464.5	1523.3	1558.0
-57.5°	825.0	922.3	1011.7	1074.7	1139.1	1204.4	1258.3	1304.9	1351.9	1396.7	1421.2
-60°	661.7	741.6	822.6	897.7	969.4	1037.0	1099.9	1161.0	1217.6	1265.3	1294.1
-62.5°	500.1	566.5	632.2	695.0	755.3	814.1	881.1	945.6	1007.0	1057.1	1088.0
-65°	348.2	402.6	453.5	502.4	549.2	599.3	651.3	702.0	750.5	789.1	814.4
-67.5°	236.8	270.3	300.7	329.7	365.3	403.9	442.1	477.6	510.1	535.1	552.9
-70°	157.3	175.2	191.3	210.1	233.4	256.8	280.4	302.3	322.3	337.3	348.5
-72.5°	96.8	109.2	120.8	133.4	145.3	157.6	170.5	183.0	195.2	203.9	210.6
-75°	46.6	52.3	62.5	71.9	80.2	88.1	95.2	101.4	106.8	110.2	112.5
-77.5°	31.7	34.3	36.8	39.4	42.0	45.2	48.4	51.5	54.4	56.7	58.7
-80°	22.9	24.3	25.4	26.4	27.3	28.7	30.1	31.6	33.0	33.6	33.9
-82.5°	15.9	16.9	18.0	19.0	20.0	20.9	21.8	22.6	23.4	24.2	24.9
-85°	10.7	11.2	11.8	12.4	13.0	13.8	14.4	15.1	15.8	15.9	16.0
-87.5°	7.4	7.6	7.7	7.8	7.9	8.4	9.0	9.5	10.0	10.1	10.1
-90°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.0



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	7.6
87.5°	2.0	2.0	1.0	0.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0
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	2.0
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.5
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.6
75°	2.5	2.0	2.0	2.0	2.0	2.0	2.5	3.0	3.4	3.7	3.7
72.5°	5.9	6.0	5.1	4.1	5.1	6.0	5.9	5.8	5.7	5.8	6.3
70°	6.7	6.2	6.1	6.1	6.1	6.2	6.7	7.1	7.4	7.9	8.8
67.5°	9.3	9.9	10.1	10.1	10.1	9.9	9.3	8.7	8.3	8.6	9.7
65°	11.3	12.0	11.2	10.1	11.2	12.0	11.3	10.6	9.9	9.8	10.4
62.5°	8.4	8.3	8.1	8.1	8.1	8.3	8.4	8.6	8.7	9.3	10.1
60°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.3	8.7
57.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
55°	9.1	9.8	10.1	10.1	10.1	9.8	9.1	8.5	8.1	8.4	8.4
52.5°	10.0	10.1	10.1	10.1	10.1	10.1	10.0	9.7	9.4	9.7	9.8
50°	12.6	12.3	12.2	12.2	12.2	12.3	12.6	12.7	12.6	12.4	12.1
47.5°	15.8	14.7	14.2	14.2	14.2	14.7	15.8	16.5	16.8	16.7	16.1
45°	24.6	24.3	24.1	24.3	24.1	24.3	24.6	24.5	25.1	24.3	21.7
42.5°	41.2	41.8	41.1	38.5	41.1	41.8	41.2	39.7	42.4	42.4	40.1
40°	68.0	65.4	61.9	60.9	61.9	65.4	68.0	67.9	70.6	71.5	70.0
37.5°	126.2	126.2	123.3	121.7	123.3	126.2	126.2	124.7	121.7	106.9	111.1
35°	265.6	263.4	249.0	235.3	249.0	263.4	265.6	274.7	261.2	205.8	236.1
32.5°	689.8	726.4	723.0	701.9	723.0	726.4	689.8	673.6	625.5	580.9	550.0
30°	1467.4	1532.9	1519.1	1432.2	1519.1	1532.9	1467.4	1412.2	1268.5	1184.0	1074.4
27.5°	3033.1	3186.4	3321.5	3144.3	3321.5	3186.4	3033.1	2999.9	2375.1	2636.4	1985.1
25°	10374.9	11372.6	11962.9	11045.5	11962.9	11372.6	10374.9	8625.7	6878.5	6796.3	5611.7
22.5°	24760.7	26004.2	26667.6	27046.9	26667.6	26004.2	24760.7	22128.4	18842.4	15461.5	13014.4
20°	45419.7	48078.4	49781.5	46350.7	49781.5	48078.4	45419.7	40608.1	35637.4	28601.3	23532.4
17.5°	76948.7	86754.3	91916.9	94721.8	91916.9	86754.3	76948.7	65661.3	57524.6	47006.8	36760.6
15°	116820.4	129366.5	137838.8	141155.7	137838.8	129366.5	116820.4	101898.7	82563.7	66574.3	51337.0
12.5°	154519.4	167465.1	175282.1	177246.9	175282.1	167465.1	154519.4	134856.1	110022.6	85995.4	65809.7
10°	181333.6	193531.4	202523.6	205680.3	202523.6	193531.4	181333.6	163440.6	135082.5	106718.6	76806.4
7.5°	196261.2	210519.6	218444.9	220417.9	218444.9	210519.6	196261.2	177705.4	151585.5	120896.7	89292.0
5°	204852.3	217734.9	226398.4	227448.9	226398.4	217734.9	204852.3	186201.5	161346.2	131185.0	97458.5
2.5°	210391.6	222990.6	230279.6	232421.9	230279.6	222990.6	210391.6	191327.2	167593.7	137816.6	101841.2
0°	211750.8	223334.9	232140.9	234881.5	232140.9	223334.9	211750.8	193993.8	170651.0	140182.0	103759.1
-2.5°	207635.2	218810.3	224676.1	225627.2	224676.1	218810.3	207635.2	190160.8	166684.2	138177.6	102787.3
-5°	197125.1	205389.9	212161.6	213027.8	212161.6	205389.9	197125.1	179537.0	157445.3	128987.1	95721.7
-7.5°	174799.9	184071.1	187816.5	188830.1	187816.5	184071.1	174799.9	161535.1	141598.6	115340.3	85141.9
-10°	151046.2	158988.8	161642.1	163074.4	161642.1	158988.8	151046.2	138697.7	119847.5	96238.2	70338.8
-12.5°	127791.3	135557.8	138167.6	140240.8	138167.6	135557.8	127791.3	114134.8	96973.6	75964.5	57956.6
-15°	101736.0	109384.1	113600.4	115934.6	113600.4	109384.1	101736.0	88393.5	72822.8	58473.3	45106.4
-17.5°	76342.5	83605.8	88513.2	91368.6	88513.2	83605.8	76342.5	64416.3	55019.1	44783.9	35110.3
-20°	57885.7	62801.5	66578.1	68819.1	66578.1	62801.5	57885.7	51059.1	43531.2	35674.3	28500.5



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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°	45217.4	48622.0	50809.8	52241.7	50809.8	48622.0	45217.4	40706.7	34923.6	28883.0	23734.9
-25°	35340.1	37574.6	38989.4	40147.3	38989.4	37574.6	35340.1	32271.3	28221.7	24291.4	20527.7
-27.5°	27981.9	29179.9	29805.3	30655.7	29805.3	29179.9	27981.9	26151.9	23898.7	20479.2	17187.9
-30°	22494.6	23413.9	23910.9	24095.3	23910.9	23413.9	22494.6	21025.8	19033.9	16579.7	13996.1
-32.5°	18104.4	18972.8	19600.0	19894.1	19600.0	18972.8	18104.4	16816.7	15104.1	13162.0	11156.7
-35°	14443.8	15168.3	15662.7	15934.4	15662.7	15168.3	14443.8	13316.7	11864.2	10295.3	8485.4
-37.5°	10684.6	11479.5	12023.8	12209.9	12023.8	11479.5	10684.6	9649.2	8398.9	7129.4	5756.4
-40°	6555.4	7061.8	7388.6	7526.0	7388.6	7061.8	6555.4	5876.2	5023.3	4049.7	3377.6
-42.5°	3548.3	3734.2	3863.3	3937.4	3863.3	3734.2	3548.3	3304.4	2991.6	2609.5	2302.3
-45°	2463.1	2510.2	2540.0	2551.9	2540.0	2510.2	2463.1	2403.9	2312.4	2200.3	2077.5
-47.5°	2245.5	2296.3	2323.4	2324.7	2323.4	2296.3	2245.5	2187.2	2107.6	2007.8	1900.4
-50°	2033.9	2089.3	2117.2	2119.9	2117.2	2089.3	2033.9	1968.2	1885.1	1784.0	1681.4
-52.5°	1766.5	1810.4	1829.4	1827.7	1829.4	1810.4	1766.5	1719.5	1667.8	1601.5	1531.5
-55°	1588.0	1614.1	1625.7	1626.9	1625.7	1614.1	1588.0	1558.0	1523.3	1464.5	1402.4
-57.5°	1443.3	1462.6	1469.4	1468.7	1469.4	1462.6	1443.3	1421.2	1396.7	1351.9	1304.9
-60°	1319.3	1340.4	1346.2	1342.9	1346.2	1340.4	1319.3	1294.1	1265.3	1217.6	1161.0
-62.5°	1113.1	1132.4	1142.0	1144.1	1142.0	1132.4	1113.1	1088.0	1057.1	1007.0	945.6
-65°	834.3	848.8	856.4	858.1	856.4	848.8	834.3	814.4	789.1	750.5	702.0
-67.5°	566.6	576.4	579.5	578.1	579.5	576.4	566.6	552.9	535.1	510.1	477.6
-70°	357.6	364.4	366.1	365.1	366.1	364.4	357.6	348.5	337.3	322.3	302.3
-72.5°	216.0	220.1	220.5	219.1	220.5	220.1	216.0	210.6	203.9	195.2	183.0
-75°	113.8	114.4	114.3	113.6	114.3	114.4	113.8	112.5	110.2	106.8	101.4
-77.5°	60.6	62.3	61.8	60.9	61.8	62.3	60.6	58.7	56.7	54.4	51.5
-80°	34.2	34.4	34.5	34.5	34.5	34.4	34.2	33.9	33.6	33.0	31.6
-82.5°	25.6	26.3	25.3	24.3	25.3	26.3	25.6	24.9	24.2	23.4	22.6
-85°	16.1	16.2	16.2	16.2	16.2	16.2	16.1	16.0	15.9	15.8	15.1
-87.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.0	9.5
-90°	0.5	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	7.1	6.6	6.1	5.6	5.1	4.6	4.1	4.1	4.1	4.1	4.1
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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	2.4	2.7	2.9	3.0	2.8	2.6	2.4	2.2
80°	2.8	3.1	3.3	3.4	3.6	3.8	4.1	4.1	4.1	4.0	3.6
77.5°	3.1	3.7	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.0
75°	3.8	3.9	4.2	4.5	4.5	4.2	4.1	4.1	4.1	4.1	3.9
72.5°	6.6	6.5	6.6	6.8	6.9	7.2	7.3	7.0	6.3	5.0	4.1
70°	9.6	10.4	11.6	12.8	13.3	13.3	12.9	12.2	11.5	10.7	8.5
67.5°	10.8	11.9	14.4	17.2	19.0	20.1	20.0	18.9	17.7	16.6	13.4
65°	11.1	12.0	15.4	18.9	22.2	25.2	27.7	27.8	26.5	23.8	18.2
62.5°	11.0	12.0	15.1	18.4	22.2	27.7	34.2	37.2	37.4	32.7	25.3
60°	9.3	10.5	13.4	16.5	20.0	27.8	37.9	45.4	50.4	43.0	32.6
57.5°	8.1	9.0	11.5	14.3	17.4	26.3	37.9	51.0	59.5	49.5	40.0
55°	8.2	8.9	10.4	12.3	14.9	22.9	33.7	46.5	55.6	51.8	41.4
52.5°	9.9	10.2	10.7	11.5	13.9	19.0	26.4	38.3	44.6	42.8	38.9
50°	12.0	12.0	11.9	12.0	13.4	15.8	21.0	29.2	32.2	33.8	31.9
47.5°	15.9	15.7	14.4	13.9	15.1	14.8	17.6	21.1	25.1	25.4	25.5
45°	23.7	23.8	20.9	21.2	21.5	20.9	18.0	20.7	22.6	23.4	20.6
42.5°	40.7	39.5	37.3	35.5	34.0	32.3	29.8	28.4	26.3	25.1	25.1
40°	66.0	62.1	60.6	56.5	51.8	48.1	50.4	44.2	38.6	31.9	35.5
37.5°	104.5	88.0	99.2	89.7	79.4	79.1	82.7	72.8	57.0	61.4	59.3
35°	197.0	177.2	186.3	167.9	130.9	151.8	137.3	116.2	104.1	112.4	98.3
32.5°	453.7	438.5	378.1	332.2	300.9	279.0	244.1	187.3	195.2	190.5	162.7
30°	1022.1	964.8	756.6	712.8	679.0	497.5	398.9	369.3	339.8	290.2	244.7
27.5°	2424.1	2032.0	1679.7	1704.2	1370.1	990.6	724.9	595.2	522.6	438.1	354.8
25°	5781.7	4883.9	4166.1	3743.5	2858.2	1943.3	1357.5	973.9	753.3	621.4	511.7
22.5°	11386.9	9834.3	8218.6	6758.7	5253.6	3854.6	2581.9	1469.2	1007.8	830.1	696.2
20°	18588.6	15669.3	13156.5	10685.5	8355.2	6095.6	4224.5	2429.1	1416.8	1044.7	877.0
17.5°	28313.3	22274.6	18097.8	14643.2	11756.1	8982.3	6004.2	3486.2	1801.9	1252.8	1049.6
15°	38824.8	29340.3	23070.9	18775.1	14926.1	10927.8	7558.8	4489.5	2315.0	1527.6	1217.7
12.5°	48900.7	36606.5	27633.1	21795.6	16927.1	12582.1	9063.0	5766.0	3093.6	1775.6	1321.0
10°	56843.1	42556.5	31535.3	24410.4	18927.6	14091.7	10230.4	6657.4	3591.8	1969.9	1407.9
7.5°	64161.8	47069.1	34659.2	26363.1	20608.9	15486.4	11142.6	7280.4	3908.1	2134.7	1479.6
5°	68758.8	50352.4	36908.1	27463.7	21747.9	16633.2	11953.4	7711.0	4062.8	2267.4	1537.1
2.5°	71183.2	52164.9	38355.7	28015.0	22373.6	17383.0	12592.1	8009.3	4156.2	2322.3	1558.8
0°	73075.0	52986.1	38465.7	28132.1	22478.5	17516.7	12978.8	8154.8	4182.9	2330.8	1570.1
-2.5°	71553.3	52216.5	38102.9	27788.0	22138.4	17217.2	12840.2	8377.1	4308.0	2364.9	1579.0
-5°	67239.8	49292.8	35696.1	26122.7	20807.0	16237.3	12150.0	8096.7	4264.5	2345.2	1576.9
-7.5°	60903.9	44549.5	32263.1	23984.3	19063.3	14867.9	11061.8	7335.2	3990.3	2222.2	1531.9
-10°	51831.3	38174.2	27745.1	21273.9	16915.3	13280.3	9844.3	6452.8	3604.9	2063.6	1477.3
-12.5°	42943.4	31461.0	22958.8	18054.1	14295.2	11239.6	8381.0	5455.5	3108.6	1871.4	1413.9
-15°	33171.0	24917.3	19501.5	15318.4	11792.6	9263.4	6860.1	4348.2	2509.9	1656.0	1342.5
-17.5°	26976.2	20151.9	16383.1	13194.9	10225.2	7543.6	5508.9	3576.4	2141.6	1504.2	1290.7
-20°	22320.7	18128.5	14504.4	11574.9	8992.4	6583.3	4425.3	2810.7	1865.9	1442.2	1254.1



REPORT NUMBER: P701639 (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°	19856.5	16461.4	13198.9	10235.2	7812.7	5575.7	3640.4	2226.1	1571.3	1377.7	1210.4
-25°	17366.3	14610.4	11733.3	9003.1	6560.0	4389.9	2772.7	1918.1	1503.9	1317.4	1159.0
-27.5°	14555.4	12194.3	9941.7	7415.5	5121.2	3339.3	2197.7	1633.9	1444.6	1271.4	1098.5
-30°	11630.2	9691.5	7703.6	5592.2	3799.7	2462.2	1793.7	1560.8	1386.4	1218.4	1043.4
-32.5°	9044.7	7304.4	5530.0	3944.3	2666.8	1974.7	1675.7	1484.4	1324.2	1150.9	1012.5
-35°	6698.2	5108.1	3666.2	2711.0	2044.6	1783.5	1592.3	1421.3	1243.2	1085.9	983.9
-37.5°	4342.9	3223.0	2563.0	2025.4	1853.4	1680.6	1514.6	1333.6	1155.8	1047.2	952.5
-40°	2800.0	2213.9	2032.2	1872.3	1725.3	1585.6	1403.8	1226.4	1116.0	1005.6	918.0
-42.5°	2155.5	2007.8	1868.2	1734.4	1596.8	1437.8	1286.2	1182.3	1076.7	973.7	896.3
-45°	1961.3	1841.1	1715.7	1581.3	1437.6	1328.3	1237.1	1137.8	1037.5	954.9	880.8
-47.5°	1782.1	1663.1	1542.0	1443.3	1349.6	1261.2	1178.3	1092.2	1013.5	934.4	821.3
-50°	1590.1	1508.0	1426.8	1347.8	1268.2	1189.2	1124.0	1064.1	972.9	862.7	748.8
-52.5°	1458.8	1389.8	1320.9	1252.3	1195.8	1139.3	1079.6	988.4	888.2	771.2	653.7
-55°	1337.2	1285.0	1238.1	1191.9	1138.6	1055.8	971.8	877.5	771.4	659.3	552.9
-57.5°	1258.3	1204.4	1139.1	1074.7	1011.7	922.3	825.0	731.1	642.4	543.2	447.6
-60°	1099.9	1037.0	969.4	897.7	822.6	741.6	661.7	582.8	505.5	425.4	345.9
-62.5°	881.1	814.1	755.3	695.0	632.2	566.5	500.1	436.7	372.5	307.5	254.8
-65°	651.3	599.3	549.2	502.4	453.5	402.6	348.2	302.4	261.3	218.3	175.2
-67.5°	442.1	403.9	365.3	329.7	300.7	270.3	236.8	201.4	175.1	153.3	129.7
-70°	280.4	256.8	233.4	210.1	191.3	175.2	157.3	138.8	120.5	103.3	85.2
-72.5°	170.5	157.6	145.3	133.4	120.8	109.2	96.8	83.5	69.6	55.2	44.9
-75°	95.2	88.1	80.2	71.9	62.5	52.3	46.6	43.1	39.2	35.0	30.7
-77.5°	48.4	45.2	42.0	39.4	36.8	34.3	31.7	28.7	26.5	24.4	22.4
-80°	30.1	28.7	27.3	26.4	25.4	24.3	22.9	21.3	19.7	18.3	17.2
-82.5°	21.8	20.9	20.0	19.0	18.0	16.9	15.9	15.1	14.3	13.6	12.9
-85°	14.4	13.8	13.0	12.4	11.8	11.2	10.7	10.3	9.8	9.2	8.6
-87.5°	9.0	8.4	7.9	7.8	7.7	7.6	7.4	6.9	6.4	5.9	5.5
-90°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



REPORT NUMBER: P701639 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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	2.1	2.0	2.0
80°	3.0	2.5	2.2	2.0	2.1	2.0	2.0	2.0	2.3	2.4	2.3
77.5°	3.4	2.9	2.4	2.1	2.4	2.6	2.5	2.3	2.6	2.8	2.8
75°	3.4	2.8	2.3	2.2	2.7	3.2	3.3	3.2	3.1	3.2	3.3
72.5°	3.8	3.4	2.7	2.3	2.8	3.3	3.8	4.0	3.6	3.5	3.8
70°	6.3	4.5	3.7	3.3	3.2	3.4	3.9	4.1	4.1	3.8	3.9
67.5°	10.2	7.7	5.7	4.3	3.8	3.7	4.0	4.1	4.1	4.1	4.0
65°	14.5	11.0	7.9	5.9	4.6	4.0	4.1	4.1	4.1	4.1	4.1
62.5°	19.3	14.6	10.9	7.6	5.4	4.4	4.1	4.1	4.1	4.1	4.1
60°	24.3	18.3	13.9	10.1	6.8	4.6	4.1	4.1	4.1	4.1	4.1
57.5°	29.7	21.4	16.5	12.4	8.7	5.5	4.1	4.1	4.1	4.1	4.1
55°	33.2	25.1	19.3	14.5	10.5	6.9	4.7	4.1	4.1	4.1	4.1
52.5°	31.6	27.2	22.5	16.7	12.0	8.5	6.2	4.1	4.1	4.1	4.1
50°	27.4	26.8	24.2	19.2	13.5	10.3	7.7	5.3	4.1	4.1	4.1
47.5°	24.6	25.6	24.4	21.0	15.5	12.1	9.4	6.6	4.1	4.1	4.1
45°	23.4	23.9	24.1	21.6	17.9	14.3	11.2	7.9	5.2	4.2	4.1
42.5°	24.2	24.4	23.1	22.5	20.0	16.4	13.1	9.6	6.3	4.3	4.2
40°	32.8	27.3	23.6	24.2	22.4	18.4	14.9	11.3	7.4	4.8	4.3
37.5°	45.0	36.2	27.9	30.2	26.1	20.9	16.4	13.1	8.7	5.8	4.5
35°	75.5	50.6	46.7	44.3	34.6	23.7	17.8	14.6	10.3	6.8	4.8
32.5°	114.9	88.7	84.0	67.3	46.3	26.8	19.9	16.1	11.8	7.7	5.0
30°	190.1	167.1	133.6	96.4	63.7	37.7	23.4	17.9	13.3	8.6	5.5
27.5°	312.7	260.9	198.4	142.2	91.7	51.8	28.6	19.9	14.7	9.6	6.2
25°	447.2	375.0	288.8	199.6	123.6	80.5	34.7	22.3	16.2	10.7	6.9
22.5°	595.9	498.5	389.4	264.1	176.9	117.4	49.7	27.1	17.9	11.8	7.5
20°	750.8	627.2	493.2	330.5	237.7	163.3	76.6	32.3	19.8	12.7	8.1
17.5°	910.7	741.0	570.5	403.8	296.2	211.4	107.5	37.8	21.7	13.6	8.7
15°	1018.9	829.3	643.8	470.8	349.1	260.8	141.5	43.4	23.6	14.4	9.4
12.5°	1105.6	913.3	712.6	531.5	396.7	310.8	177.4	49.2	25.6	15.7	10.2
10°	1183.1	992.1	776.5	586.2	439.7	360.5	214.1	55.2	29.0	17.5	11.1
7.5°	1251.6	1064.9	834.9	634.8	474.7	395.8	237.5	61.5	32.6	19.3	12.0
5°	1304.7	1117.9	873.2	656.7	486.3	413.8	255.3	67.3	36.2	21.1	12.8
2.5°	1320.5	1142.7	896.6	669.8	495.7	428.0	268.8	72.5	39.5	22.8	13.5
0°	1328.7	1158.3	912.9	677.5	503.1	438.2	277.9	77.1	42.6	24.3	14.2
-2.5°	1335.5	1163.2	921.5	691.2	518.3	446.3	293.1	99.4	57.5	32.7	18.0
-5°	1335.5	1159.6	922.7	699.6	531.2	451.0	304.3	120.6	71.7	40.7	21.6
-7.5°	1308.3	1134.2	910.4	702.5	541.3	453.0	311.9	140.2	85.0	48.1	25.0
-10°	1269.9	1092.9	883.5	698.2	554.1	459.6	317.4	158.0	96.9	54.7	28.1
-12.5°	1225.4	1045.6	855.3	691.9	566.6	470.3	326.0	173.7	107.2	60.4	30.8
-15°	1174.9	993.0	827.6	684.7	578.3	479.2	330.3	186.6	115.0	65.0	33.1
-17.5°	1124.4	935.9	802.0	677.3	589.3	486.6	330.3	196.2	121.0	68.5	35.2
-20°	1083.2	900.5	780.8	670.6	600.0	492.8	326.2	202.0	124.7	70.7	37.1



REPORT NUMBER: P701639 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-4S-CV1-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1036.1	885.7	773.1	676.0	606.9	498.1	317.8	203.8	126.0	71.4	38.4
-25°	985.2	870.1	764.9	681.4	607.7	484.8	312.2	201.3	124.8	70.7	38.9
-27.5°	955.8	854.7	754.8	682.7	596.6	466.5	308.6	199.5	122.1	68.3	38.7
-30°	935.9	840.6	750.7	676.4	581.1	433.1	299.0	194.3	119.2	66.8	37.7
-32.5°	915.7	825.1	743.9	656.0	546.9	398.2	280.0	185.6	114.0	65.5	36.9
-35°	892.5	809.7	730.7	630.4	504.7	371.0	258.0	173.1	106.6	63.1	35.6
-37.5°	865.9	793.6	698.0	592.7	461.3	339.5	237.5	157.8	96.9	59.5	33.7
-40°	848.6	767.2	662.4	544.3	420.6	303.7	213.2	142.3	89.9	54.7	31.1
-42.5°	828.6	723.2	611.5	494.6	376.7	272.6	186.2	124.6	82.0	50.3	27.8
-45°	775.0	668.0	551.4	438.9	329.8	237.4	163.8	106.0	72.9	45.7	24.7
-47.5°	711.4	596.7	486.0	378.8	285.7	201.2	138.9	94.8	63.0	40.2	22.5
-50°	628.1	520.2	415.9	322.4	236.7	170.3	115.0	82.4	54.9	33.2	19.8
-52.5°	542.2	439.2	348.4	265.3	196.2	136.5	99.8	69.3	45.8	28.1	16.8
-55°	450.7	362.2	282.5	214.6	155.5	114.4	83.5	57.7	35.9	23.9	13.7
-57.5°	363.5	286.7	223.9	166.3	125.0	94.6	67.9	45.0	29.5	19.4	13.0
-60°	276.3	221.2	167.4	130.9	100.9	74.7	52.0	33.9	24.2	15.4	12.1
-62.5°	203.9	160.0	130.8	102.0	77.3	55.4	37.0	27.6	18.6	14.3	11.2
-65°	148.5	122.3	97.1	75.2	54.5	38.3	29.6	21.1	16.2	13.0	10.2
-67.5°	106.5	86.1	67.4	48.6	37.8	29.6	21.9	17.7	14.5	11.6	9.2
-70°	67.6	51.3	42.4	35.0	27.5	21.3	18.5	15.5	12.7	10.4	8.2
-72.5°	40.1	35.0	29.4	23.6	21.1	18.6	15.9	13.5	11.3	9.2	7.1
-75°	26.3	24.0	22.3	20.4	18.1	15.8	13.7	11.9	9.9	8.0	6.4
-77.5°	21.0	19.7	18.5	16.9	14.7	13.0	11.5	10.3	8.6	7.0	5.7
-80°	16.3	15.1	13.9	12.4	11.1	10.1	9.5	8.7	7.3	6.1	5.0
-82.5°	11.8	10.7	9.8	9.0	8.5	8.1	7.6	7.1	6.1	5.1	4.5
-85°	8.0	7.5	7.1	6.7	6.4	6.1	5.9	5.8	5.2	4.8	4.4
-87.5°	5.5	5.4	5.3	5.2	5.2	5.1	5.0	4.9	4.7	4.4	4.2
-90°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	4.1	4.1	4.1	4.1	4.1	4.1	4.1
87.5°	2.0	2.1	2.2	2.2	2.2	3.1	4.1
85°	2.0	2.2	2.4	2.4	2.4	3.1	4.1
82.5°	2.0	2.4	2.6	2.6	2.6	3.2	4.1
80°	2.1	2.5	2.7	2.8	2.7	3.2	4.1
77.5°	2.6	2.7	2.9	3.0	2.9	3.3	4.1
75°	3.2	3.0	3.1	3.3	3.1	3.3	4.1
72.5°	3.7	3.4	3.3	3.5	3.3	3.4	4.1
70°	4.1	3.7	3.5	3.7	3.5	3.5	4.1
67.5°	4.1	4.0	3.7	3.8	3.6	3.5	4.1
65°	4.1	4.1	3.8	3.8	3.8	3.6	4.1
62.5°	4.1	4.1	4.0	3.9	4.0	3.6	4.1
60°	4.1	4.1	4.1	3.9	4.1	3.6	4.1
57.5°	4.1	4.1	4.1	4.0	4.1	3.7	4.1
55°	4.1	4.1	4.1	4.0	4.1	3.7	4.1
52.5°	4.1	4.1	4.1	4.1	4.1	3.8	4.1
50°	4.1	4.1	4.1	4.1	4.1	3.8	4.1
47.5°	4.1	4.1	4.1	4.1	4.1	3.8	4.1
45°	4.1	4.1	4.1	4.1	4.1	3.9	4.1
42.5°	4.1	4.1	4.1	4.1	4.1	3.9	4.1
40°	4.1	4.1	4.1	4.1	4.1	3.9	4.1
37.5°	4.1	4.1	4.1	4.1	4.1	4.0	4.1
35°	4.1	4.1	4.1	4.1	4.1	4.0	4.1
32.5°	4.2	4.1	4.1	4.1	4.1	4.0	4.1
30°	4.4	4.1	4.1	4.1	4.1	4.0	4.1
27.5°	4.6	4.1	4.1	4.1	4.1	4.0	4.1
25°	4.8	4.1	4.1	4.1	4.1	4.1	4.1
22.5°	5.1	4.1	4.1	4.1	4.1	4.1	4.1
20°	5.3	4.3	4.1	4.1	4.1	4.1	4.1
17.5°	5.7	4.5	4.1	4.1	4.1	4.1	4.1
15°	6.1	4.7	4.1	4.1	4.1	4.1	4.1
12.5°	6.5	4.9	4.1	4.1	4.1	4.1	4.1
10°	6.8	5.1	4.1	4.1	4.1	4.1	4.1
7.5°	7.2	5.4	4.1	4.1	4.1	4.1	4.1
5°	7.5	5.6	4.1	4.1	4.1	4.1	4.1
2.5°	7.8	5.9	4.1	4.1	4.1	4.1	4.1
0°	8.1	6.1	4.1	4.1	4.1	4.1	4.1
-2.5°	10.0	6.8	4.3	4.1	4.1	4.1	4.1
-5°	11.8	7.4	4.4	4.1	4.1	4.1	4.1
-7.5°	13.5	8.0	4.6	4.1	4.1	4.1	4.1
-10°	15.1	8.5	4.8	4.1	4.1	4.1	4.1
-12.5°	16.5	8.9	4.9	4.1	4.1	4.1	4.1
-15°	17.6	9.3	5.0	4.1	4.1	4.1	4.1
-17.5°	18.5	9.5	5.1	4.1	4.1	4.1	4.1
-20°	19.3	9.7	5.1	4.1	4.1	4.1	4.1



REPORT NUMBER: P701639 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-4S-CV1-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	20.0	9.7	5.2	4.1	4.1	4.1	4.1
-25°	20.3	9.8	5.2	4.1	4.1	4.1	4.1
-27.5°	20.2	9.8	5.1	4.1	4.1	4.1	4.1
-30°	19.7	9.6	5.0	4.1	4.1	4.1	4.1
-32.5°	18.7	9.2	5.1	4.1	4.1	4.1	4.1
-35°	18.0	8.6	5.2	4.1	4.1	4.1	4.1
-37.5°	17.3	8.2	5.2	4.1	4.1	4.1	4.1
-40°	16.2	8.1	5.1	4.1	4.1	4.1	4.1
-42.5°	14.9	8.1	5.1	4.1	4.1	4.1	4.1
-45°	13.3	7.9	5.2	4.2	4.1	4.1	4.1
-47.5°	11.4	7.7	5.3	4.2	4.1	4.1	4.1
-50°	10.9	7.5	5.2	4.2	4.1	4.1	4.1
-52.5°	10.5	7.2	5.2	4.3	4.1	4.1	4.1
-55°	10.0	7.0	5.1	4.3	4.1	4.1	4.1
-57.5°	9.5	6.7	5.0	4.3	4.1	4.1	4.1
-60°	8.9	6.4	4.8	4.2	4.1	4.1	4.1
-62.5°	8.3	6.0	4.8	4.2	4.1	4.1	4.1
-65°	7.6	5.6	4.7	4.2	4.1	4.1	4.1
-67.5°	6.9	5.3	4.5	4.2	4.1	4.1	4.1
-70°	6.0	5.0	4.4	4.1	4.1	4.1	4.1
-72.5°	5.6	4.8	4.3	4.1	4.1	4.1	4.1
-75°	5.1	4.5	4.1	4.1	4.1	4.1	4.1
-77.5°	4.6	4.2	4.1	4.1	4.1	4.1	4.1
-80°	4.2	4.1	4.1	4.1	4.1	4.1	4.1
-82.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1
-85°	4.1	4.1	4.1	4.1	4.1	4.1	4.1
-87.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1
-90°	2.0	2.0	2.0	2.0	2.0	3.1	4.1

(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

