

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: P413440 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-08-0640L-40-70-1S-HEG**

Issue Date: 10/30/2020

Test Information

Test Method: LM-79-08
Report Number: P413440 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1912-617-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/30/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-08-0640L-40-70-1S-HEG
Description: EPHEBUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 1S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

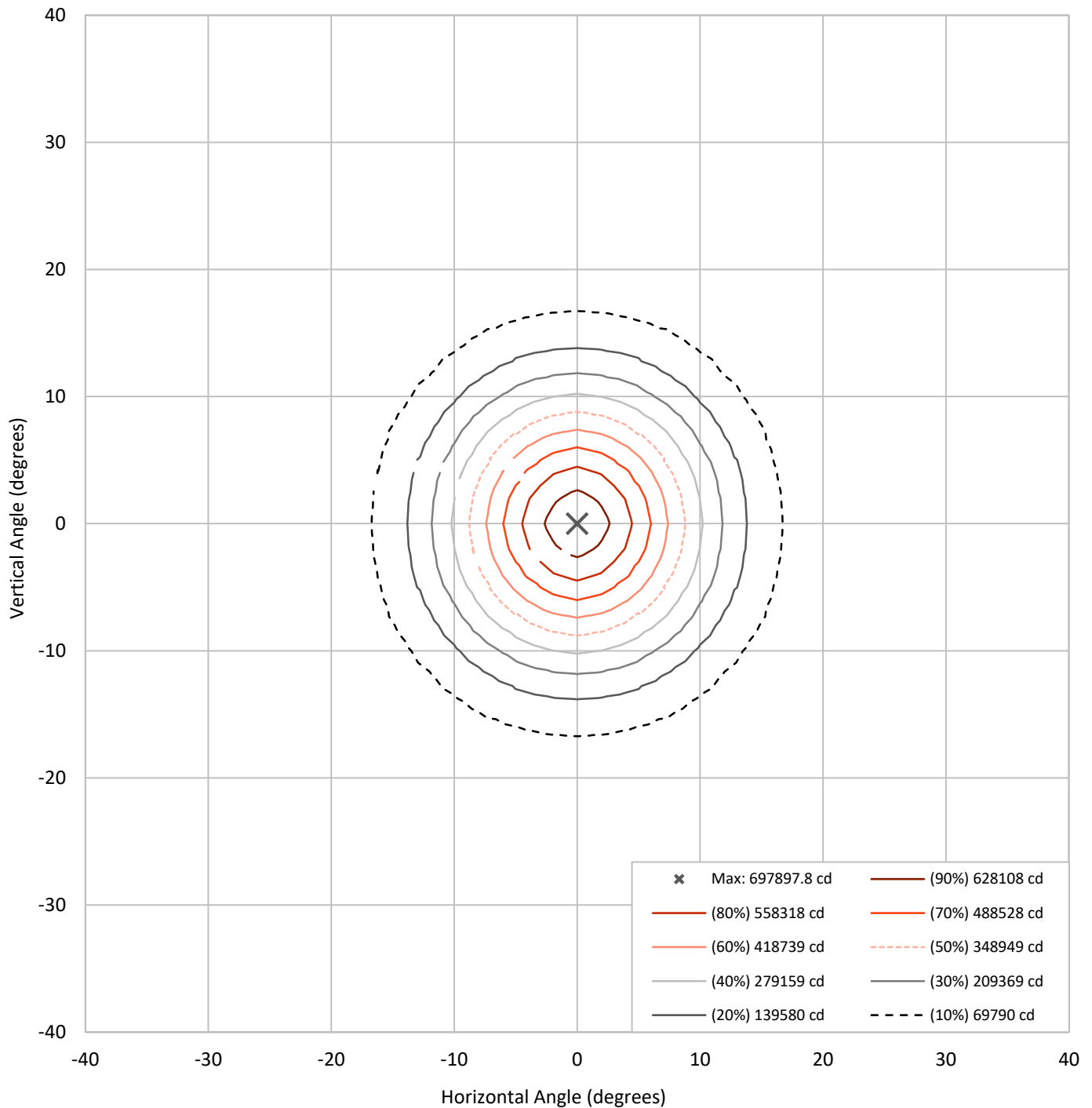
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	85009.7 lumens	Max Intensity:	697897.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	123.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	17.6°H x 17.6°V	Field Angle (10%):	33.3°H x 33.3°V
Beam Lumens:	30940.2 lumens	Field Lumens:	69362.7 lumens
Beam Efficiency:	36.4%	Field Efficiency:	81.6%
Input Watts (W):	686		
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		

REPORT NUMBER: P413440 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-08-0640L-40-70-1S-HEG

Iso-Candela Plot





REPORT NUMBER: P413440 (CONVERTED FROM TYPE C PHOTOMETRY)

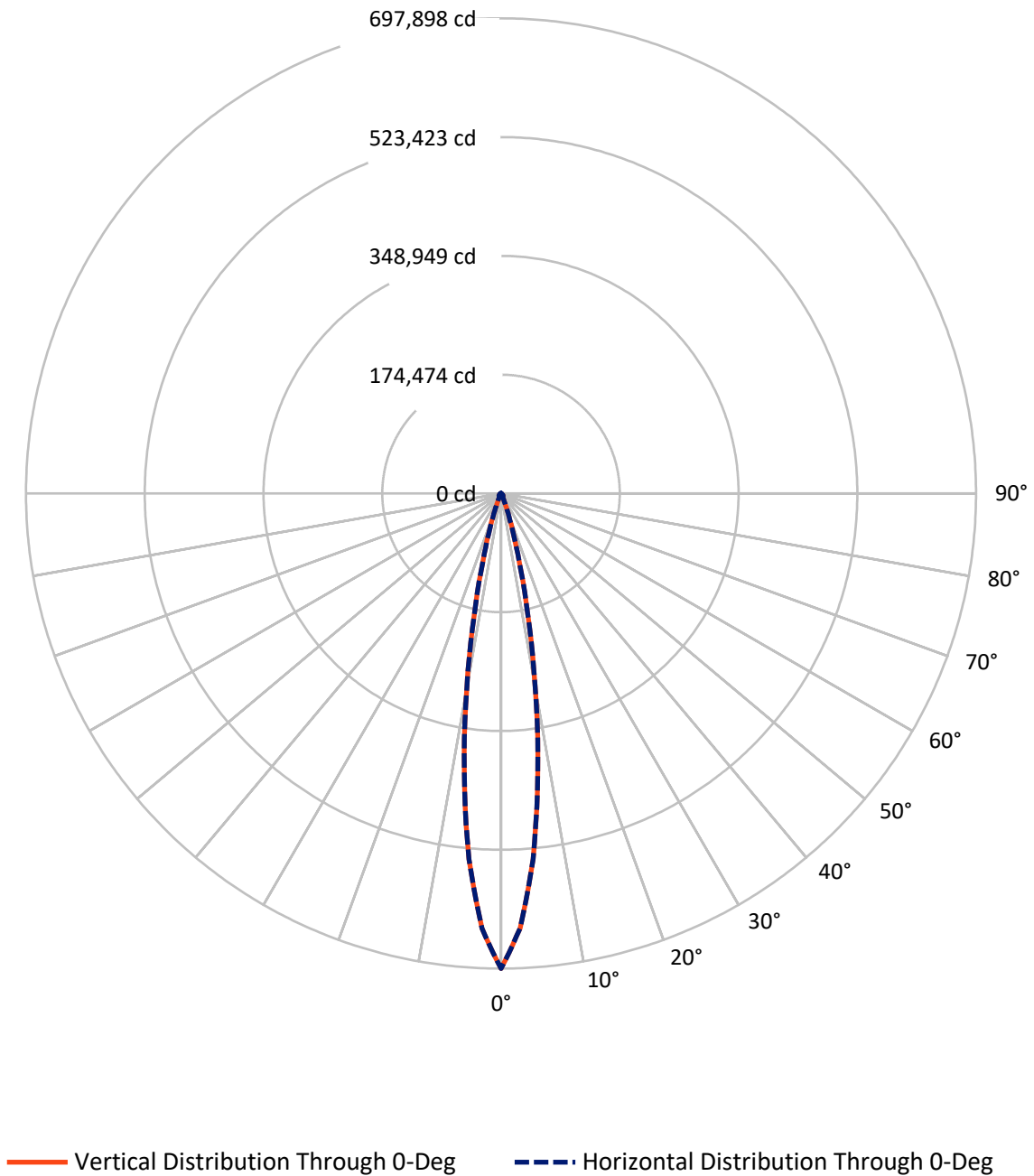
CATALOG NUMBER: EPH-08-0640L-40-70-1S-HEG

Lumen Table

90	0.3	1.4		3.3		7.1		9.2		7.1		3.3		1.4		0.3			
80	0.3	1.4		3.3		7.1		9.2		7.1		3.3		1.4		0.3			
70	0.6	0.5	1.5	4.6	9.3	14.5	18.8	21.2	21.2	18.8	14.5	9.3	4.6	1.5	0.5	0.6			
60		1.1	5.5	13.5	23.3	31.1	36.2	38.9	38.9	36.2	31.1	23.3	13.5	5.5	1.1				
50	1.0	2.9	11.0	23.0	33.0	58.6	94.5	113.8	113.8	94.5	58.6	33.0	23.0	11.0	2.9	1.0			
40		5.0	16.5	28.5	72.3	123.4	131.9	129.3	129.3	131.9	123.4	72.3	28.5	16.5	5.0				
30	1.9	7.0	19.8	46.3	111.6	116.3	122.7	215.8	215.8	122.7	116.3	111.6	46.3	19.8	7.0	1.9			
20		8.5	21.6	70.2	111.8	115.3	746.3	2967.9	2967.9	746.3	115.3	111.8	70.2	21.6	8.5				
10	2.4	9.3	22.5	81.7	106.0	198.6	2896.7	12171.4	12171.4	2896.7	198.6	106.0	81.7	22.5	9.3	2.4			
0		9.3	22.5	81.7	106.0	198.6	2896.7	12171.4	12171.4	2896.7	198.6	106.0	81.7	22.5	9.3				
-10	1.9	8.5	21.6	70.2	111.8	115.3	746.3	2967.9	2967.9	746.3	115.3	111.8	70.2	21.6	8.5	1.9			
-20		7.0	19.8	46.3	111.6	116.3	122.7	215.8	215.8	122.7	116.3	111.6	46.3	19.8	7.0				
-30	1.0	5.0	16.5	28.5	72.3	123.4	131.9	129.3	129.3	131.9	123.4	72.3	28.5	16.5	5.0	1.0			
-40		2.9	11.0	23.0	33.0	58.6	94.5	113.8	113.8	94.5	58.6	33.0	23.0	11.0	2.9				
-50	0.6	1.1	5.5	13.5	23.3	31.1	36.2	38.9	38.9	36.2	31.1	23.3	13.5	5.5	1.1	0.6			
-60		0.5	1.5	4.6	9.3	14.5	18.8	21.2	21.2	18.8	14.5	9.3	4.6	1.5	0.5				
-70	0.3	1.4		3.3		7.1		9.2		7.1		3.3		1.4		0.3			
-80		1.4		3.3		7.1		9.2		7.1		3.3		1.4					
-90	0.3	1.4		3.3		7.1		9.2		7.1		3.3		1.4		0.3			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

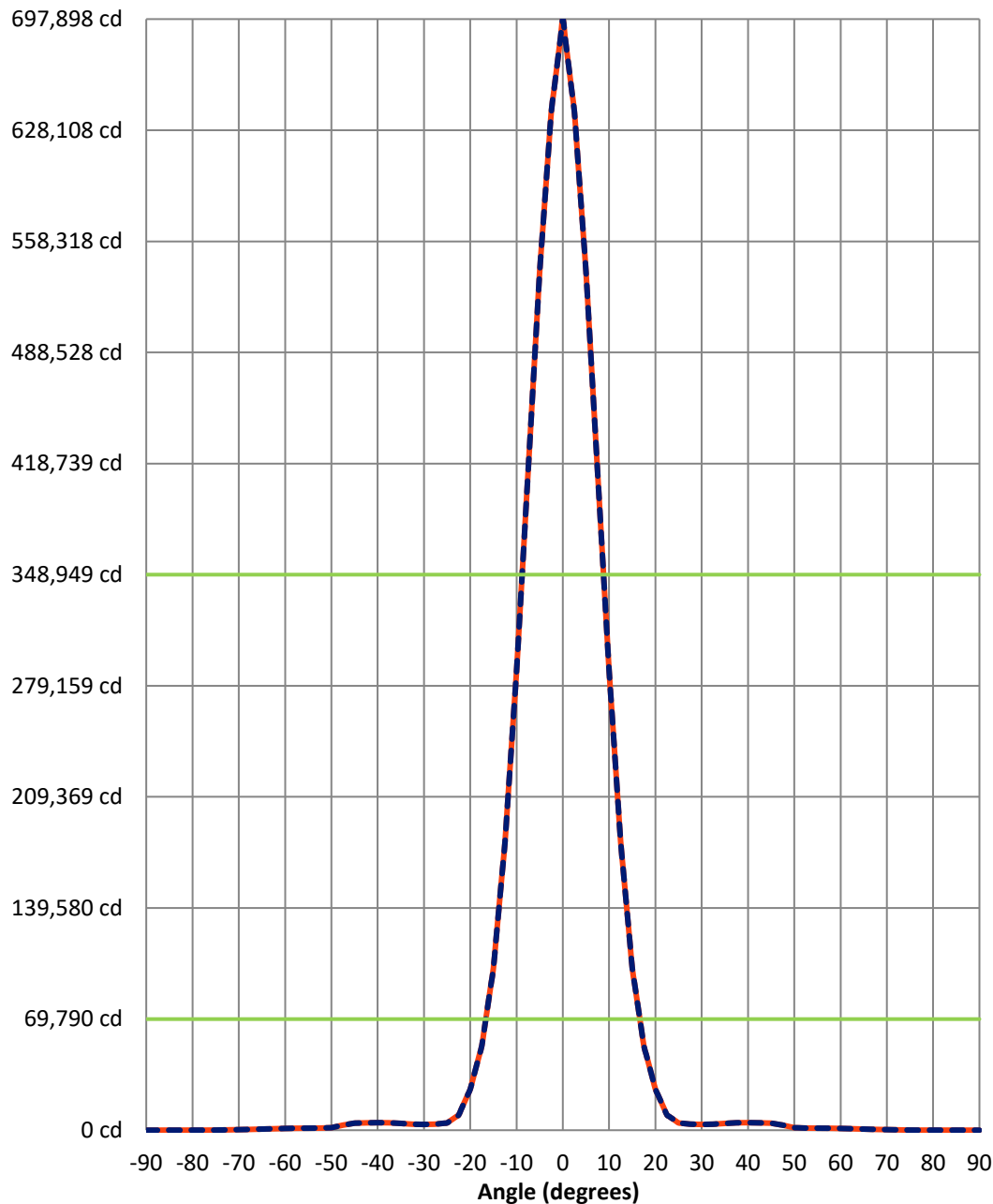
REPORT NUMBER: P413440 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-08-0640L-40-70-1S-HEG

Luminous Intensity Polar Plot



REPORT NUMBER: P413440 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-08-0640L-40-70-1S-HEG

Luminous Intensity Plot



Beam:
H Angle: 17.6°
V Angle: 17.6°
Lumens: 30940.2
Efficiency: 36.4%

Field:
H Angle: 33.3°
V Angle: 33.3°
Lumens: 69362.7
Efficiency: 81.6%

Spill:
Lumens: 15646.9
Efficiency: 18.4%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 0-Deg



REPORT NUMBER: P413440 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0640L-40-70-1S-HEG

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	0.5	1.0	1.4	1.9	2.4	2.9	3.3	3.8	4.2	4.7
85°	0.0	1.0	1.9	2.9	3.9	4.8	5.7	6.7	7.6	8.5	9.4
82.5°	0.0	1.4	2.9	4.3	5.8	7.2	8.6	10.0	11.7	14.6	17.4
80°	0.0	1.9	3.9	5.8	7.7	9.6	11.8	15.8	19.7	23.6	27.4
77.5°	0.0	2.4	4.8	7.2	9.6	12.9	17.9	22.8	27.7	32.5	33.2
75°	0.0	2.9	5.7	8.6	11.8	17.9	23.9	29.8	34.4	30.1	25.9
72.5°	0.0	3.3	6.7	10.0	15.8	22.8	29.8	33.6	28.6	23.6	18.8
70°	0.0	3.8	7.6	11.7	19.7	27.7	34.4	28.6	22.9	17.7	28.2
67.5°	0.0	4.2	8.5	14.6	23.6	32.5	30.1	23.6	17.7	29.7	41.5
65°	0.0	4.7	9.4	17.4	27.4	33.2	25.9	18.8	28.2	41.5	49.2
62.5°	0.0	5.1	10.2	20.2	31.1	29.7	21.9	23.8	38.5	49.8	44.3
60°	0.0	5.5	11.1	22.9	34.7	26.4	17.9	32.7	48.7	45.5	39.5
57.5°	0.0	6.0	12.9	25.6	32.4	23.2	24.0	41.3	47.7	41.2	47.9
55°	0.0	6.4	14.6	28.2	29.9	20.0	31.2	49.8	44.0	40.8	62.2
52.5°	0.0	6.8	16.3	30.7	27.4	18.3	38.2	47.9	40.5	53.4	76.1
50°	0.0	7.1	17.9	33.1	25.0	24.0	45.1	44.9	41.2	65.6	118.2
47.5°	0.0	7.5	19.4	34.5	22.7	29.5	50.3	42.0	51.6	77.3	162.2
45°	0.0	7.8	20.9	32.8	20.5	34.8	47.9	39.1	61.7	114.9	204.7
42.5°	0.0	8.2	22.4	31.2	18.4	39.8	45.6	42.9	71.4	151.5	248.1
40°	0.0	8.5	23.7	29.7	19.3	44.6	43.4	51.0	87.7	186.6	290.0
37.5°	0.0	8.8	25.0	28.3	23.0	49.2	41.3	58.6	117.2	220.6	330.0
35°	0.0	9.1	26.3	26.9	26.4	49.6	39.3	65.9	145.2	254.6	367.7
32.5°	0.0	9.4	27.4	25.7	29.7	48.1	39.7	72.7	171.6	286.6	403.1
30°	0.0	9.6	28.5	24.5	32.7	46.6	45.2	82.7	196.3	316.6	436.3
27.5°	0.0	9.8	29.5	23.4	35.5	45.3	50.2	102.6	219.9	344.4	467.1
25°	0.0	10.1	30.4	22.3	38.1	44.0	54.9	121.0	242.5	370.0	496.2
22.5°	0.0	10.3	31.3	21.4	40.5	42.9	59.1	137.8	263.2	393.2	535.7
20°	0.0	10.4	32.0	20.6	42.6	41.9	63.0	152.9	281.9	414.1	571.3
17.5°	0.0	10.6	32.7	19.8	44.5	41.0	66.4	166.3	298.5	432.7	603.0
15°	0.0	10.7	33.3	19.2	46.1	40.2	69.3	178.0	312.9	448.9	630.7
12.5°	0.0	10.8	33.8	18.7	47.5	39.5	71.8	187.9	325.2	462.7	654.3
10°	0.0	10.9	34.2	18.2	48.7	39.0	73.9	196.1	335.3	474.1	673.6
7.5°	0.0	11.0	34.5	17.9	49.5	38.6	75.5	202.5	343.2	483.0	688.8
5°	0.0	11.1	34.7	17.6	50.2	38.2	76.7	207.0	348.9	489.3	699.6
2.5°	0.0	11.1	34.9	17.5	50.6	38.1	77.4	209.8	352.3	493.1	706.1
0°	0.0	11.1	34.9	17.4	50.7	38.0	77.6	210.7	353.4	494.4	708.3
-2.5°	0.0	11.1	34.9	17.5	50.6	38.1	77.4	209.8	352.3	493.1	706.1
-5°	0.0	11.1	34.7	17.6	50.2	38.2	76.7	207.0	348.9	489.3	699.6
-7.5°	0.0	11.0	34.5	17.9	49.5	38.6	75.5	202.5	343.2	483.0	688.8
-10°	0.0	10.9	34.2	18.2	48.7	39.0	73.9	196.1	335.3	474.1	673.6
-12.5°	0.0	10.8	33.8	18.7	47.5	39.5	71.8	187.9	325.2	462.7	654.3
-15°	0.0	10.7	33.3	19.2	46.1	40.2	69.3	178.0	312.9	448.9	630.7
-17.5°	0.0	10.6	32.7	19.8	44.5	41.0	66.4	166.3	298.5	432.7	603.0
-20°	0.0	10.4	32.0	20.6	42.6	41.9	63.0	152.9	281.9	414.1	571.3



REPORT NUMBER: P413440 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0640L-40-70-1S-HEG

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	10.3	31.3	21.4	40.5	42.9	59.1	137.8	263.2	393.2	535.7
-25°	0.0	10.1	30.4	22.3	38.1	44.0	54.9	121.0	242.5	370.0	496.2
-27.5°	0.0	9.8	29.5	23.4	35.5	45.3	50.2	102.6	219.9	344.4	467.1
-30°	0.0	9.6	28.5	24.5	32.7	46.6	45.2	82.7	196.3	316.6	436.3
-32.5°	0.0	9.4	27.4	25.7	29.7	48.1	39.7	72.7	171.6	286.6	403.1
-35°	0.0	9.1	26.3	26.9	26.4	49.6	39.3	65.9	145.2	254.6	367.7
-37.5°	0.0	8.8	25.0	28.3	23.0	49.2	41.3	58.6	117.2	220.6	330.0
-40°	0.0	8.5	23.7	29.7	19.3	44.6	43.4	51.0	87.7	186.6	290.0
-42.5°	0.0	8.2	22.4	31.2	18.4	39.8	45.6	42.9	71.4	151.5	248.1
-45°	0.0	7.8	20.9	32.8	20.5	34.8	47.9	39.1	61.7	114.9	204.7
-47.5°	0.0	7.5	19.4	34.5	22.7	29.5	50.3	42.0	51.6	77.3	162.2
-50°	0.0	7.1	17.9	33.1	25.0	24.0	45.1	44.9	41.2	65.6	118.2
-52.5°	0.0	6.8	16.3	30.7	27.4	18.3	38.2	47.9	40.5	53.4	76.1
-55°	0.0	6.4	14.6	28.2	29.9	20.0	31.2	49.8	44.0	40.8	62.2
-57.5°	0.0	6.0	12.9	25.6	32.4	23.2	24.0	41.3	47.7	41.2	47.9
-60°	0.0	5.5	11.1	22.9	34.7	26.4	17.9	32.7	48.7	45.5	39.5
-62.5°	0.0	5.1	10.2	20.2	31.1	29.7	21.9	23.8	38.5	49.8	44.3
-65°	0.0	4.7	9.4	17.4	27.4	33.2	25.9	18.8	28.2	41.5	49.2
-67.5°	0.0	4.2	8.5	14.6	23.6	32.5	30.1	23.6	17.7	29.7	41.5
-70°	0.0	3.8	7.6	11.7	19.7	27.7	34.4	28.6	22.9	17.7	28.2
-72.5°	0.0	3.3	6.7	10.0	15.8	22.8	29.8	33.6	28.6	23.6	18.8
-75°	0.0	2.9	5.7	8.6	11.8	17.9	23.9	29.8	34.4	30.1	25.9
-77.5°	0.0	2.4	4.8	7.2	9.6	12.9	17.9	22.8	27.7	32.5	33.2
-80°	0.0	1.9	3.9	5.8	7.7	9.6	11.8	15.8	19.7	23.6	27.4
-82.5°	0.0	1.4	2.9	4.3	5.8	7.2	8.6	10.0	11.7	14.6	17.4
-85°	0.0	1.0	1.9	2.9	3.9	4.8	5.7	6.7	7.6	8.5	9.4
-87.5°	0.0	0.5	1.0	1.4	1.9	2.4	2.9	3.3	3.8	4.2	4.7
-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: P413440 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0640L-40-70-1S-HEG

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°	5.1	5.5	6.0	6.4	6.8	7.1	7.5	7.8	8.2	8.5	8.8
85°	10.2	11.1	12.9	14.6	16.3	17.9	19.4	20.9	22.4	23.7	25.0
82.5°	20.2	22.9	25.6	28.2	30.7	33.1	34.5	32.8	31.2	29.7	28.3
80°	31.1	34.7	32.4	29.9	27.4	25.0	22.7	20.5	18.4	19.3	23.0
77.5°	29.7	26.4	23.2	20.0	18.3	24.0	29.5	34.8	39.8	44.6	49.2
75°	21.9	17.9	24.0	31.2	38.2	45.1	50.3	47.9	45.6	43.4	41.3
72.5°	23.8	32.7	41.3	49.8	47.9	44.9	42.0	39.1	42.9	51.0	58.6
70°	38.5	48.7	47.7	44.0	40.5	41.2	51.6	61.7	71.4	87.7	117.2
67.5°	49.8	45.5	41.2	40.8	53.4	65.6	77.3	114.9	151.5	186.6	220.6
65°	44.3	39.5	47.9	62.2	76.1	118.2	162.2	204.7	248.1	290.0	330.0
62.5°	39.0	51.4	67.5	96.7	148.2	198.2	249.3	299.6	347.9	393.7	437.4
60°	51.4	69.3	108.7	166.3	223.3	281.9	338.7	393.2	445.4	496.2	568.9
57.5°	67.5	108.7	172.3	236.4	301.6	364.9	425.8	484.8	566.0	648.8	726.9
55°	96.7	166.3	236.4	308.2	378.0	445.6	520.0	616.5	709.7	794.0	874.7
52.5°	148.2	223.3	301.6	378.0	452.2	540.2	647.1	748.3	842.6	932.3	1015.3
50°	198.2	281.9	364.9	445.6	540.2	657.3	767.7	872.0	970.0	1062.8	1135.6
47.5°	249.3	338.7	425.8	520.0	647.1	767.7	881.9	989.0	1091.6	1161.9	1226.6
45°	299.6	393.2	484.8	616.5	748.3	872.0	989.0	1101.3	1175.2	1236.1	1258.0
42.5°	347.9	445.4	566.0	709.7	842.6	970.0	1091.6	1175.2	1238.2	1262.3	1290.6
40°	393.7	496.2	648.8	794.0	932.3	1062.8	1161.9	1236.1	1262.3	1293.6	1327.7
37.5°	437.4	568.9	726.9	874.7	1015.3	1135.6	1226.6	1258.0	1290.6	1327.7	1480.3
35°	478.9	638.0	797.8	949.7	1094.5	1193.4	1249.4	1281.4	1321.5	1466.3	1922.9
32.5°	530.3	703.3	864.9	1019.3	1147.7	1236.6	1268.0	1309.1	1424.4	1738.6	2867.8
30°	586.0	761.3	927.2	1084.7	1195.7	1253.0	1290.8	1355.6	1547.8	2585.9	3635.3
27.5°	638.0	815.2	983.4	1131.5	1234.2	1268.5	1313.8	1464.1	2122.4	3341.5	4291.7
25°	686.0	864.9	1035.4	1170.0	1247.4	1286.8	1355.0	1565.3	2822.8	3917.7	4501.3
22.5°	728.6	910.4	1083.0	1205.2	1259.6	1305.0	1441.7	2088.7	3405.9	4431.2	4589.7
20°	765.9	949.7	1118.2	1233.1	1270.6	1321.6	1520.6	2637.7	3860.4	4506.5	4650.4
17.5°	799.1	984.7	1144.2	1242.1	1283.6	1360.4	1653.8	3130.7	4269.4	4574.5	4695.7
15°	828.1	1015.3	1167.0	1250.1	1295.6	1417.6	2054.0	3477.8	4458.5	4628.0	4733.9
12.5°	852.8	1041.4	1186.5	1256.8	1305.8	1466.6	2396.9	3763.6	4506.2	4660.0	4710.0
10°	873.1	1062.8	1202.5	1262.4	1314.2	1507.0	2680.4	4000.2	4545.8	4686.5	4690.1
7.5°	889.0	1079.6	1215.0	1266.8	1320.8	1538.7	2902.8	4186.0	4576.9	4707.5	4674.4
5°	900.4	1091.6	1224.0	1269.9	1325.6	1561.5	3062.7	4319.7	4599.3	4722.5	4663.1
2.5°	907.2	1098.9	1229.4	1271.8	1328.4	1575.2	3159.1	4400.4	4612.9	4731.7	4656.2
0°	909.5	1101.3	1231.2	1272.4	1329.4	1579.8	3191.3	4427.3	4617.4	4734.7	4653.9
-2.5°	907.2	1098.9	1229.4	1271.8	1328.4	1575.2	3159.1	4400.4	4612.9	4731.7	4656.2
-5°	900.4	1091.6	1224.0	1269.9	1325.6	1561.5	3062.7	4319.7	4599.3	4722.5	4663.1
-7.5°	889.0	1079.6	1215.0	1266.8	1320.8	1538.7	2902.8	4186.0	4576.9	4707.5	4674.4
-10°	873.1	1062.8	1202.5	1262.4	1314.2	1507.0	2680.4	4000.2	4545.8	4686.5	4690.1
-12.5°	852.8	1041.4	1186.5	1256.8	1305.8	1466.6	2396.9	3763.6	4506.2	4660.0	4710.0
-15°	828.1	1015.3	1167.0	1250.1	1295.6	1417.6	2054.0	3477.8	4458.5	4628.0	4733.9
-17.5°	799.1	984.7	1144.2	1242.1	1283.6	1360.4	1653.8	3130.7	4269.4	4574.5	4695.7
-20°	765.9	949.7	1118.2	1233.1	1270.6	1321.6	1520.6	2637.7	3860.4	4506.5	4650.4



REPORT NUMBER: P413440 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-08-0640L-40-70-1S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	728.6	910.4	1083.0	1205.2	1259.6	1305.0	1441.7	2088.7	3405.9	4431.2	4589.7
-25°	686.0	864.9	1035.4	1170.0	1247.4	1286.8	1355.0	1565.3	2822.8	3917.7	4501.3
-27.5°	638.0	815.2	983.4	1131.5	1234.2	1268.5	1313.8	1464.1	2122.4	3341.5	4291.7
-30°	586.0	761.3	927.2	1084.7	1195.7	1253.0	1290.8	1355.6	1547.8	2585.9	3635.3
-32.5°	530.3	703.3	864.9	1019.3	1147.7	1236.6	1268.0	1309.1	1424.4	1738.6	2867.8
-35°	478.9	638.0	797.8	949.7	1094.5	1193.4	1249.4	1281.4	1321.5	1466.3	1922.9
-37.5°	437.4	568.9	726.9	874.7	1015.3	1135.6	1226.6	1258.0	1290.6	1327.7	1480.3
-40°	393.7	496.2	648.8	794.0	932.3	1062.8	1161.9	1236.1	1262.3	1293.6	1327.7
-42.5°	347.9	445.4	566.0	709.7	842.6	970.0	1091.6	1175.2	1238.2	1262.3	1290.6
-45°	299.6	393.2	484.8	616.5	748.3	872.0	989.0	1101.3	1175.2	1236.1	1258.0
-47.5°	249.3	338.7	425.8	520.0	647.1	767.7	881.9	989.0	1091.6	1161.9	1226.6
-50°	198.2	281.9	364.9	445.6	540.2	657.3	767.7	872.0	970.0	1062.8	1135.6
-52.5°	148.2	223.3	301.6	378.0	452.2	540.2	647.1	748.3	842.6	932.3	1015.3
-55°	96.7	166.3	236.4	308.2	378.0	445.6	520.0	616.5	709.7	794.0	874.7
-57.5°	67.5	108.7	172.3	236.4	301.6	364.9	425.8	484.8	566.0	648.8	726.9
-60°	51.4	69.3	108.7	166.3	223.3	281.9	338.7	393.2	445.4	496.2	568.9
-62.5°	39.0	51.4	67.5	96.7	148.2	198.2	249.3	299.6	347.9	393.7	437.4
-65°	44.3	39.5	47.9	62.2	76.1	118.2	162.2	204.7	248.1	290.0	330.0
-67.5°	49.8	45.5	41.2	40.8	53.4	65.6	77.3	114.9	151.5	186.6	220.6
-70°	38.5	48.7	47.7	44.0	40.5	41.2	51.6	61.7	71.4	87.7	117.2
-72.5°	23.8	32.7	41.3	49.8	47.9	44.9	42.0	39.1	42.9	51.0	58.6
-75°	21.9	17.9	24.0	31.2	38.2	45.1	50.3	47.9	45.6	43.4	41.3
-77.5°	29.7	26.4	23.2	20.0	18.3	24.0	29.5	34.8	39.8	44.6	49.2
-80°	31.1	34.7	32.4	29.9	27.4	25.0	22.7	20.5	18.4	19.3	23.0
-82.5°	20.2	22.9	25.6	28.2	30.7	33.1	34.5	32.8	31.2	29.7	28.3
-85°	10.2	11.1	12.9	14.6	16.3	17.9	19.4	20.9	22.4	23.7	25.0
-87.5°	5.1	5.5	6.0	6.4	6.8	7.1	7.5	7.8	8.2	8.5	8.8
-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: P413440 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0640L-40-70-1S-HEG

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°	9.1	9.4	9.6	9.8	10.1	10.3	10.4	10.6	10.7	10.8	10.9
85°	26.3	27.4	28.5	29.5	30.4	31.3	32.0	32.7	33.3	33.8	34.2
82.5°	26.9	25.7	24.5	23.4	22.3	21.4	20.6	19.8	19.2	18.7	18.2
80°	26.4	29.7	32.7	35.5	38.1	40.5	42.6	44.5	46.1	47.5	48.7
77.5°	49.6	48.1	46.6	45.3	44.0	42.9	41.9	41.0	40.2	39.5	39.0
75°	39.3	39.7	45.2	50.2	54.9	59.1	63.0	66.4	69.3	71.8	73.9
72.5°	65.9	72.7	82.7	102.6	121.0	137.8	152.9	166.3	178.0	187.9	196.1
70°	145.2	171.6	196.3	219.9	242.5	263.2	281.9	298.5	312.9	325.2	335.3
67.5°	254.6	286.6	316.6	344.4	370.0	393.2	414.1	432.7	448.9	462.7	474.1
65°	367.7	403.1	436.3	467.1	496.2	535.7	571.3	603.0	630.7	654.3	673.6
62.5°	478.9	530.3	586.0	638.0	686.0	728.6	765.9	799.1	828.1	852.8	873.1
60°	638.0	703.3	761.3	815.2	864.9	910.4	949.7	984.7	1015.3	1041.4	1062.8
57.5°	797.8	864.9	927.2	983.4	1035.4	1083.0	1118.2	1144.2	1167.0	1186.5	1202.5
55°	949.7	1019.3	1084.7	1131.5	1170.0	1205.2	1233.1	1242.1	1250.1	1256.8	1262.4
52.5°	1094.5	1147.7	1195.7	1234.2	1247.4	1259.6	1270.6	1283.6	1295.6	1305.8	1314.2
50°	1193.4	1236.6	1253.0	1268.5	1286.8	1305.0	1321.6	1360.4	1417.6	1466.6	1507.0
47.5°	1249.4	1268.0	1290.8	1313.8	1355.0	1441.7	1520.6	1653.8	2054.0	2396.9	2680.4
45°	1281.4	1309.1	1355.6	1464.1	1565.3	2088.7	2637.7	3130.7	3477.8	3763.6	4000.2
42.5°	1321.5	1424.4	1547.8	2122.4	2822.8	3405.9	3860.4	4269.4	4458.5	4506.2	4545.8
40°	1466.3	1738.6	2585.9	3341.5	3917.7	4431.2	4506.5	4574.5	4628.0	4660.0	4686.5
37.5°	1922.9	2867.8	3635.3	4291.7	4501.3	4589.7	4650.4	4695.7	4733.9	4710.0	4690.1
35°	2962.5	3783.9	4441.5	4549.1	4637.9	4696.4	4724.0	4690.3	4660.3	4561.5	4459.1
32.5°	3783.9	4453.3	4573.3	4660.8	4727.7	4696.3	4656.4	4493.8	4340.3	4189.3	4047.4
30°	4441.5	4573.3	4668.6	4728.6	4679.4	4556.1	4353.2	4139.3	3927.9	3772.1	3718.9
27.5°	4549.1	4660.8	4728.6	4673.7	4500.4	4265.4	3988.5	3768.8	3690.1	3621.0	3689.2
25°	4637.9	4727.7	4679.4	4500.4	4228.4	3911.6	3727.8	3633.4	3706.8	3796.0	4027.1
22.5°	4696.4	4696.3	4556.1	4265.4	3911.6	3713.9	3640.0	3760.4	4021.7	4397.6	5540.8
20°	4724.0	4656.4	4353.2	3988.5	3727.8	3640.0	3778.6	4168.9	4944.7	7676.6	11074.4
17.5°	4690.3	4493.8	4139.3	3768.8	3633.4	3760.4	4168.9	5466.9	8783.9	16766.5	25290.8
15°	4660.3	4340.3	3927.9	3690.1	3706.8	4021.7	4944.7	8783.9	18718.9	31984.1	48031.5
12.5°	4561.5	4189.3	3772.1	3621.0	3796.0	4397.6	7676.6	16766.5	31984.1	51929.0	83111.5
10°	4459.1	4047.4	3718.9	3689.2	4027.1	5540.8	11074.4	25290.8	48031.5	83111.5	130027.7
7.5°	4378.0	3934.8	3676.5	3744.3	4261.3	7262.8	17321.4	36791.3	68046.5	116094.8	181806.5
5°	4319.4	3853.2	3645.7	3784.5	4432.9	8532.4	21962.5	45684.6	86317.1	150834.8	238094.1
2.5°	4283.9	3803.7	3627.0	3809.0	4537.8	9311.3	24826.4	51217.3	97820.7	173114.0	275283.6
0°	4272.0	3787.1	3620.7	3817.2	4573.1	9573.9	25795.1	53097.2	101756.0	180819.4	288393.9
-2.5°	4283.9	3803.7	3627.0	3809.0	4537.8	9311.3	24826.4	51217.3	97820.7	173114.0	275283.6
-5°	4319.4	3853.2	3645.7	3784.5	4432.9	8532.4	21962.5	45684.6	86317.1	150834.8	238094.1
-7.5°	4378.0	3934.8	3676.5	3744.3	4261.3	7262.8	17321.4	36791.3	68046.5	116094.8	181806.5
-10°	4459.1	4047.4	3718.9	3689.2	4027.1	5540.8	11074.4	25290.8	48031.5	83111.5	130027.7
-12.5°	4561.5	4189.3	3772.1	3621.0	3796.0	4397.6	7676.6	16766.5	31984.1	51929.0	83111.5
-15°	4660.3	4340.3	3927.9	3690.1	3706.8	4021.7	4944.7	8783.9	18718.9	31984.1	48031.5
-17.5°	4690.3	4493.8	4139.3	3768.8	3633.4	3760.4	4168.9	5466.9	8783.9	16766.5	25290.8
-20°	4724.0	4656.4	4353.2	3988.5	3727.8	3640.0	3778.6	4168.9	4944.7	7676.6	11074.4



REPORT NUMBER: P413440 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-08-0640L-40-70-1S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4696.4	4696.3	4556.1	4265.4	3911.6	3713.9	3640.0	3760.4	4021.7	4397.6	5540.8
-25°	4637.9	4727.7	4679.4	4500.4	4228.4	3911.6	3727.8	3633.4	3706.8	3796.0	4027.1
-27.5°	4549.1	4660.8	4728.6	4673.7	4500.4	4265.4	3988.5	3768.8	3690.1	3621.0	3689.2
-30°	4441.5	4573.3	4668.6	4728.6	4679.4	4556.1	4353.2	4139.3	3927.9	3772.1	3718.9
-32.5°	3783.9	4453.3	4573.3	4660.8	4727.7	4696.3	4656.4	4493.8	4340.3	4189.3	4047.4
-35°	2962.5	3783.9	4441.5	4549.1	4637.9	4696.4	4724.0	4690.3	4660.3	4561.5	4459.1
-37.5°	1922.9	2867.8	3635.3	4291.7	4501.3	4589.7	4650.4	4695.7	4733.9	4710.0	4690.1
-40°	1466.3	1738.6	2585.9	3341.5	3917.7	4431.2	4506.5	4574.5	4628.0	4660.0	4686.5
-42.5°	1321.5	1424.4	1547.8	2122.4	2822.8	3405.9	3860.4	4269.4	4458.5	4506.2	4545.8
-45°	1281.4	1309.1	1355.6	1464.1	1565.3	2088.7	2637.7	3130.7	3477.8	3763.6	4000.2
-47.5°	1249.4	1268.0	1290.8	1313.8	1355.0	1441.7	1520.6	1653.8	2054.0	2396.9	2680.4
-50°	1193.4	1236.6	1253.0	1268.5	1286.8	1305.0	1321.6	1360.4	1417.6	1466.6	1507.0
-52.5°	1094.5	1147.7	1195.7	1234.2	1247.4	1259.6	1270.6	1283.6	1295.6	1305.8	1314.2
-55°	949.7	1019.3	1084.7	1131.5	1170.0	1205.2	1233.1	1242.1	1250.1	1256.8	1262.4
-57.5°	797.8	864.9	927.2	983.4	1035.4	1083.0	1118.2	1144.2	1167.0	1186.5	1202.5
-60°	638.0	703.3	761.3	815.2	864.9	910.4	949.7	984.7	1015.3	1041.4	1062.8
-62.5°	478.9	530.3	586.0	638.0	686.0	728.6	765.9	799.1	828.1	852.8	873.1
-65°	367.7	403.1	436.3	467.1	496.2	535.7	571.3	603.0	630.7	654.3	673.6
-67.5°	254.6	286.6	316.6	344.4	370.0	393.2	414.1	432.7	448.9	462.7	474.1
-70°	145.2	171.6	196.3	219.9	242.5	263.2	281.9	298.5	312.9	325.2	335.3
-72.5°	65.9	72.7	82.7	102.6	121.0	137.8	152.9	166.3	178.0	187.9	196.1
-75°	39.3	39.7	45.2	50.2	54.9	59.1	63.0	66.4	69.3	71.8	73.9
-77.5°	49.6	48.1	46.6	45.3	44.0	42.9	41.9	41.0	40.2	39.5	39.0
-80°	26.4	29.7	32.7	35.5	38.1	40.5	42.6	44.5	46.1	47.5	48.7
-82.5°	26.9	25.7	24.5	23.4	22.3	21.4	20.6	19.8	19.2	18.7	18.2
-85°	26.3	27.4	28.5	29.5	30.4	31.3	32.0	32.7	33.3	33.8	34.2
-87.5°	9.1	9.4	9.6	9.8	10.1	10.3	10.4	10.6	10.7	10.8	10.9
-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: P413440 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0640L-40-70-1S-HEG

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°	11.0	11.1	11.1	11.1	11.1	11.1	11.0	10.9	10.8	10.7	10.6
85°	34.5	34.7	34.9	34.9	34.9	34.7	34.5	34.2	33.8	33.3	32.7
82.5°	17.9	17.6	17.5	17.4	17.5	17.6	17.9	18.2	18.7	19.2	19.8
80°	49.5	50.2	50.6	50.7	50.6	50.2	49.5	48.7	47.5	46.1	44.5
77.5°	38.6	38.2	38.1	38.0	38.1	38.2	38.6	39.0	39.5	40.2	41.0
75°	75.5	76.7	77.4	77.6	77.4	76.7	75.5	73.9	71.8	69.3	66.4
72.5°	202.5	207.0	209.8	210.7	209.8	207.0	202.5	196.1	187.9	178.0	166.3
70°	343.2	348.9	352.3	353.4	352.3	348.9	343.2	335.3	325.2	312.9	298.5
67.5°	483.0	489.3	493.1	494.4	493.1	489.3	483.0	474.1	462.7	448.9	432.7
65°	688.8	699.6	706.1	708.3	706.1	699.6	688.8	673.6	654.3	630.7	603.0
62.5°	889.0	900.4	907.2	909.5	907.2	900.4	889.0	873.1	852.8	828.1	799.1
60°	1079.6	1091.6	1098.9	1101.3	1098.9	1091.6	1079.6	1062.8	1041.4	1015.3	984.7
57.5°	1215.0	1224.0	1229.4	1231.2	1229.4	1224.0	1215.0	1202.5	1186.5	1167.0	1144.2
55°	1266.8	1269.9	1271.8	1272.4	1271.8	1269.9	1266.8	1262.4	1256.8	1250.1	1242.1
52.5°	1320.8	1325.6	1328.4	1329.4	1328.4	1325.6	1320.8	1314.2	1305.8	1295.6	1283.6
50°	1538.7	1561.5	1575.2	1579.8	1575.2	1561.5	1538.7	1507.0	1466.6	1417.6	1360.4
47.5°	2902.8	3062.7	3159.1	3191.3	3159.1	3062.7	2902.8	2680.4	2396.9	2054.0	1653.8
45°	4186.0	4319.7	4400.4	4427.3	4400.4	4319.7	4186.0	4000.2	3763.6	3477.8	3130.7
42.5°	4576.9	4599.3	4612.9	4617.4	4612.9	4599.3	4576.9	4545.8	4506.2	4458.5	4269.4
40°	4707.5	4722.5	4731.7	4734.7	4731.7	4722.5	4707.5	4686.5	4660.0	4628.0	4574.5
37.5°	4674.4	4663.1	4656.2	4653.9	4656.2	4663.1	4674.4	4690.1	4710.0	4733.9	4695.7
35°	4378.0	4319.4	4283.9	4272.0	4283.9	4319.4	4378.0	4459.1	4561.5	4660.3	4690.3
32.5°	3934.8	3853.2	3803.7	3787.1	3803.7	3853.2	3934.8	4047.4	4189.3	4340.3	4493.8
30°	3676.5	3645.7	3627.0	3620.7	3627.0	3645.7	3676.5	3718.9	3772.1	3927.9	4139.3
27.5°	3744.3	3784.5	3809.0	3817.2	3809.0	3784.5	3744.3	3689.2	3621.0	3690.1	3768.8
25°	4261.3	4432.9	4537.8	4573.1	4537.8	4432.9	4261.3	4027.1	3796.0	3706.8	3633.4
22.5°	7262.8	8532.4	9311.3	9573.9	9311.3	8532.4	7262.8	5540.8	4397.6	4021.7	3760.4
20°	17321.4	21962.5	24826.4	25795.1	24826.4	21962.5	17321.4	11074.4	7676.6	4944.7	4168.9
17.5°	36791.3	45684.6	51217.3	53097.2	51217.3	45684.6	36791.3	25290.8	16766.5	8783.9	5466.9
15°	68046.5	86317.1	97820.7	101756.0	97820.7	86317.1	68046.5	48031.5	31984.1	18718.9	8783.9
12.5°	116094.8	150834.8	173114.0	180819.4	173114.0	150834.8	116094.8	83111.5	51929.0	31984.1	16766.5
10°	181806.5	238094.1	275283.6	288393.9	275283.6	238094.1	181806.5	130027.7	83111.5	48031.5	25290.8
7.5°	262945.6	336387.3	391643.6	413857.4	391643.6	336387.3	262945.6	181806.5	116094.8	68046.5	36791.3
5°	336387.3	437722.7	512275.4	539433.4	512275.4	437722.7	336387.3	238094.1	150834.8	86317.1	45684.6
2.5°	391643.6	512275.4	598936.0	639583.4	598936.0	512275.4	391643.6	275283.6	173114.0	97820.7	51217.3
0°	413857.4	539433.4	639583.4	697897.8	639583.4	539433.4	413857.4	288393.9	180819.4	101756.0	53097.2
-2.5°	391643.6	512275.4	598936.0	639583.4	598936.0	512275.4	391643.6	275283.6	173114.0	97820.7	51217.3
-5°	336387.3	437722.7	512275.4	539433.4	512275.4	437722.7	336387.3	238094.1	150834.8	86317.1	45684.6
-7.5°	262945.6	336387.3	391643.6	413857.4	391643.6	336387.3	262945.6	181806.5	116094.8	68046.5	36791.3
-10°	181806.5	238094.1	275283.6	288393.9	275283.6	238094.1	181806.5	130027.7	83111.5	48031.5	25290.8
-12.5°	116094.8	150834.8	173114.0	180819.4	173114.0	150834.8	116094.8	83111.5	51929.0	31984.1	16766.5
-15°	68046.5	86317.1	97820.7	101756.0	97820.7	86317.1	68046.5	48031.5	31984.1	18718.9	8783.9
-17.5°	36791.3	45684.6	51217.3	53097.2	51217.3	45684.6	36791.3	25290.8	16766.5	8783.9	5466.9
-20°	17321.4	21962.5	24826.4	25795.1	24826.4	21962.5	17321.4	11074.4	7676.6	4944.7	4168.9



REPORT NUMBER: P413440 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0640L-40-70-1S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	7262.8	8532.4	9311.3	9573.9	9311.3	8532.4	7262.8	5540.8	4397.6	4021.7	3760.4
-25°	4261.3	4432.9	4537.8	4573.1	4537.8	4432.9	4261.3	4027.1	3796.0	3706.8	3633.4
-27.5°	3744.3	3784.5	3809.0	3817.2	3809.0	3784.5	3744.3	3689.2	3621.0	3690.1	3768.8
-30°	3676.5	3645.7	3627.0	3620.7	3627.0	3645.7	3676.5	3718.9	3772.1	3927.9	4139.3
-32.5°	3934.8	3853.2	3803.7	3787.1	3803.7	3853.2	3934.8	4047.4	4189.3	4340.3	4493.8
-35°	4378.0	4319.4	4283.9	4272.0	4283.9	4319.4	4378.0	4459.1	4561.5	4660.3	4690.3
-37.5°	4674.4	4663.1	4656.2	4653.9	4656.2	4663.1	4674.4	4690.1	4710.0	4733.9	4695.7
-40°	4707.5	4722.5	4731.7	4734.7	4731.7	4722.5	4707.5	4686.5	4660.0	4628.0	4574.5
-42.5°	4576.9	4599.3	4612.9	4617.4	4612.9	4599.3	4576.9	4545.8	4506.2	4458.5	4269.4
-45°	4186.0	4319.7	4400.4	4427.3	4400.4	4319.7	4186.0	4000.2	3763.6	3477.8	3130.7
-47.5°	2902.8	3062.7	3159.1	3191.3	3159.1	3062.7	2902.8	2680.4	2396.9	2054.0	1653.8
-50°	1538.7	1561.5	1575.2	1579.8	1575.2	1561.5	1538.7	1507.0	1466.6	1417.6	1360.4
-52.5°	1320.8	1325.6	1328.4	1329.4	1328.4	1325.6	1320.8	1314.2	1305.8	1295.6	1283.6
-55°	1266.8	1269.9	1271.8	1272.4	1271.8	1269.9	1266.8	1262.4	1256.8	1250.1	1242.1
-57.5°	1215.0	1224.0	1229.4	1231.2	1229.4	1224.0	1215.0	1202.5	1186.5	1167.0	1144.2
-60°	1079.6	1091.6	1098.9	1101.3	1098.9	1091.6	1079.6	1062.8	1041.4	1015.3	984.7
-62.5°	889.0	900.4	907.2	909.5	907.2	900.4	889.0	873.1	852.8	828.1	799.1
-65°	688.8	699.6	706.1	708.3	706.1	699.6	688.8	673.6	654.3	630.7	603.0
-67.5°	483.0	489.3	493.1	494.4	493.1	489.3	483.0	474.1	462.7	448.9	432.7
-70°	343.2	348.9	352.3	353.4	352.3	348.9	343.2	335.3	325.2	312.9	298.5
-72.5°	202.5	207.0	209.8	210.7	209.8	207.0	202.5	196.1	187.9	178.0	166.3
-75°	75.5	76.7	77.4	77.6	77.4	76.7	75.5	73.9	71.8	69.3	66.4
-77.5°	38.6	38.2	38.1	38.0	38.1	38.2	38.6	39.0	39.5	40.2	41.0
-80°	49.5	50.2	50.6	50.7	50.6	50.2	49.5	48.7	47.5	46.1	44.5
-82.5°	17.9	17.6	17.5	17.4	17.5	17.6	17.9	18.2	18.7	19.2	19.8
-85°	34.5	34.7	34.9	34.9	34.9	34.7	34.5	34.2	33.8	33.3	32.7
-87.5°	11.0	11.1	11.1	11.1	11.1	11.1	11.0	10.9	10.8	10.7	10.6
-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: P413440 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0640L-40-70-1S-HEG

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°	10.4	10.3	10.1	9.8	9.6	9.4	9.1	8.8	8.5	8.2	7.8
85°	32.0	31.3	30.4	29.5	28.5	27.4	26.3	25.0	23.7	22.4	20.9
82.5°	20.6	21.4	22.3	23.4	24.5	25.7	26.9	28.3	29.7	31.2	32.8
80°	42.6	40.5	38.1	35.5	32.7	29.7	26.4	23.0	19.3	18.4	20.5
77.5°	41.9	42.9	44.0	45.3	46.6	48.1	49.6	49.2	44.6	39.8	34.8
75°	63.0	59.1	54.9	50.2	45.2	39.7	39.3	41.3	43.4	45.6	47.9
72.5°	152.9	137.8	121.0	102.6	82.7	72.7	65.9	58.6	51.0	42.9	39.1
70°	281.9	263.2	242.5	219.9	196.3	171.6	145.2	117.2	87.7	71.4	61.7
67.5°	414.1	393.2	370.0	344.4	316.6	286.6	254.6	220.6	186.6	151.5	114.9
65°	571.3	535.7	496.2	467.1	436.3	403.1	367.7	330.0	290.0	248.1	204.7
62.5°	765.9	728.6	686.0	638.0	586.0	530.3	478.9	437.4	393.7	347.9	299.6
60°	949.7	910.4	864.9	815.2	761.3	703.3	638.0	568.9	496.2	445.4	393.2
57.5°	1118.2	1083.0	1035.4	983.4	927.2	864.9	797.8	726.9	648.8	566.0	484.8
55°	1233.1	1205.2	1170.0	1131.5	1084.7	1019.3	949.7	874.7	794.0	709.7	616.5
52.5°	1270.6	1259.6	1247.4	1234.2	1195.7	1147.7	1094.5	1015.3	932.3	842.6	748.3
50°	1321.6	1305.0	1286.8	1268.5	1253.0	1236.6	1193.4	1135.6	1062.8	970.0	872.0
47.5°	1520.6	1441.7	1355.0	1313.8	1290.8	1268.0	1249.4	1226.6	1161.9	1091.6	989.0
45°	2637.7	2088.7	1565.3	1464.1	1355.6	1309.1	1281.4	1258.0	1236.1	1175.2	1101.3
42.5°	3860.4	3405.9	2822.8	2122.4	1547.8	1424.4	1321.5	1290.6	1262.3	1238.2	1175.2
40°	4506.5	4431.2	3917.7	3341.5	2585.9	1738.6	1466.3	1327.7	1293.6	1262.3	1236.1
37.5°	4650.4	4589.7	4501.3	4291.7	3635.3	2867.8	1922.9	1480.3	1327.7	1290.6	1258.0
35°	4724.0	4696.4	4637.9	4549.1	4441.5	3783.9	2962.5	1922.9	1466.3	1321.5	1281.4
32.5°	4656.4	4696.3	4727.7	4660.8	4573.3	4453.3	3783.9	2867.8	1738.6	1424.4	1309.1
30°	4353.2	4556.1	4679.4	4728.6	4668.6	4573.3	4441.5	3635.3	2585.9	1547.8	1355.6
27.5°	3988.5	4265.4	4500.4	4673.7	4728.6	4660.8	4549.1	4291.7	3341.5	2122.4	1464.1
25°	3727.8	3911.6	4228.4	4500.4	4679.4	4727.7	4637.9	4501.3	3917.7	2822.8	1565.3
22.5°	3640.0	3713.9	3911.6	4265.4	4556.1	4696.3	4696.4	4589.7	4431.2	3405.9	2088.7
20°	3778.6	3640.0	3727.8	3988.5	4353.2	4656.4	4724.0	4650.4	4506.5	3860.4	2637.7
17.5°	4168.9	3760.4	3633.4	3768.8	4139.3	4493.8	4690.3	4695.7	4574.5	4269.4	3130.7
15°	4944.7	4021.7	3706.8	3690.1	3927.9	4340.3	4660.3	4733.9	4628.0	4458.5	3477.8
12.5°	7676.6	4397.6	3796.0	3621.0	3772.1	4189.3	4561.5	4710.0	4660.0	4506.2	3763.6
10°	11074.4	5540.8	4027.1	3689.2	3718.9	4047.4	4459.1	4690.1	4686.5	4545.8	4000.2
7.5°	17321.4	7262.8	4261.3	3744.3	3676.5	3934.8	4378.0	4674.4	4707.5	4576.9	4186.0
5°	21962.5	8532.4	4432.9	3784.5	3645.7	3853.2	4319.4	4663.1	4722.5	4599.3	4319.7
2.5°	24826.4	9311.3	4537.8	3809.0	3627.0	3803.7	4283.9	4656.2	4731.7	4612.9	4400.4
0°	25795.1	9573.9	4573.1	3817.2	3620.7	3787.1	4272.0	4653.9	4734.7	4617.4	4427.3
-2.5°	24826.4	9311.3	4537.8	3809.0	3627.0	3803.7	4283.9	4656.2	4731.7	4612.9	4400.4
-5°	21962.5	8532.4	4432.9	3784.5	3645.7	3853.2	4319.4	4663.1	4722.5	4599.3	4319.7
-7.5°	17321.4	7262.8	4261.3	3744.3	3676.5	3934.8	4378.0	4674.4	4707.5	4576.9	4186.0
-10°	11074.4	5540.8	4027.1	3689.2	3718.9	4047.4	4459.1	4690.1	4686.5	4545.8	4000.2
-12.5°	7676.6	4397.6	3796.0	3621.0	3772.1	4189.3	4561.5	4710.0	4660.0	4506.2	3763.6
-15°	4944.7	4021.7	3706.8	3690.1	3927.9	4340.3	4660.3	4733.9	4628.0	4458.5	3477.8
-17.5°	4168.9	3760.4	3633.4	3768.8	4139.3	4493.8	4690.3	4695.7	4574.5	4269.4	3130.7
-20°	3778.6	3640.0	3727.8	3988.5	4353.2	4656.4	4724.0	4650.4	4506.5	3860.4	2637.7



REPORT NUMBER: P413440 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-08-0640L-40-70-1S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	3640.0	3713.9	3911.6	4265.4	4556.1	4696.3	4696.4	4589.7	4431.2	3405.9	2088.7
-25°	3727.8	3911.6	4228.4	4500.4	4679.4	4727.7	4637.9	4501.3	3917.7	2822.8	1565.3
-27.5°	3988.5	4265.4	4500.4	4673.7	4728.6	4660.8	4549.1	4291.7	3341.5	2122.4	1464.1
-30°	4353.2	4556.1	4679.4	4728.6	4668.6	4573.3	4441.5	3635.3	2585.9	1547.8	1355.6
-32.5°	4656.4	4696.3	4727.7	4660.8	4573.3	4453.3	3783.9	2867.8	1738.6	1424.4	1309.1
-35°	4724.0	4696.4	4637.9	4549.1	4441.5	3783.9	2962.5	1922.9	1466.3	1321.5	1281.4
-37.5°	4650.4	4589.7	4501.3	4291.7	3635.3	2867.8	1922.9	1480.3	1327.7	1290.6	1258.0
-40°	4506.5	4431.2	3917.7	3341.5	2585.9	1738.6	1466.3	1327.7	1293.6	1262.3	1236.1
-42.5°	3860.4	3405.9	2822.8	2122.4	1547.8	1424.4	1321.5	1290.6	1262.3	1238.2	1175.2
-45°	2637.7	2088.7	1565.3	1464.1	1355.6	1309.1	1281.4	1258.0	1236.1	1175.2	1101.3
-47.5°	1520.6	1441.7	1355.0	1313.8	1290.8	1268.0	1249.4	1226.6	1161.9	1091.6	989.0
-50°	1321.6	1305.0	1286.8	1268.5	1253.0	1236.6	1193.4	1135.6	1062.8	970.0	872.0
-52.5°	1270.6	1259.6	1247.4	1234.2	1195.7	1147.7	1094.5	1015.3	932.3	842.6	748.3
-55°	1233.1	1205.2	1170.0	1131.5	1084.7	1019.3	949.7	874.7	794.0	709.7	616.5
-57.5°	1118.2	1083.0	1035.4	983.4	927.2	864.9	797.8	726.9	648.8	566.0	484.8
-60°	949.7	910.4	864.9	815.2	761.3	703.3	638.0	568.9	496.2	445.4	393.2
-62.5°	765.9	728.6	686.0	638.0	586.0	530.3	478.9	437.4	393.7	347.9	299.6
-65°	571.3	535.7	496.2	467.1	436.3	403.1	367.7	330.0	290.0	248.1	204.7
-67.5°	414.1	393.2	370.0	344.4	316.6	286.6	254.6	220.6	186.6	151.5	114.9
-70°	281.9	263.2	242.5	219.9	196.3	171.6	145.2	117.2	87.7	71.4	61.7
-72.5°	152.9	137.8	121.0	102.6	82.7	72.7	65.9	58.6	51.0	42.9	39.1
-75°	63.0	59.1	54.9	50.2	45.2	39.7	39.3	41.3	43.4	45.6	47.9
-77.5°	41.9	42.9	44.0	45.3	46.6	48.1	49.6	49.2	44.6	39.8	34.8
-80°	42.6	40.5	38.1	35.5	32.7	29.7	26.4	23.0	19.3	18.4	20.5
-82.5°	20.6	21.4	22.3	23.4	24.5	25.7	26.9	28.3	29.7	31.2	32.8
-85°	32.0	31.3	30.4	29.5	28.5	27.4	26.3	25.0	23.7	22.4	20.9
-87.5°	10.4	10.3	10.1	9.8	9.6	9.4	9.1	8.8	8.5	8.2	7.8
-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: P413440 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0640L-40-70-1S-HEG

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°	7.5	7.1	6.8	6.4	6.0	5.5	5.1	4.7	4.2	3.8	3.3
85°	19.4	17.9	16.3	14.6	12.9	11.1	10.2	9.4	8.5	7.6	6.7
82.5°	34.5	33.1	30.7	28.2	25.6	22.9	20.2	17.4	14.6	11.7	10.0
80°	22.7	25.0	27.4	29.9	32.4	34.7	31.1	27.4	23.6	19.7	15.8
77.5°	29.5	24.0	18.3	20.0	23.2	26.4	29.7	33.2	32.5	27.7	22.8
75°	50.3	45.1	38.2	31.2	24.0	17.9	21.9	25.9	30.1	34.4	29.8
72.5°	42.0	44.9	47.9	49.8	41.3	32.7	23.8	18.8	23.6	28.6	33.6
70°	51.6	41.2	40.5	44.0	47.7	48.7	38.5	28.2	17.7	22.9	28.6
67.5°	77.3	65.6	53.4	40.8	41.2	45.5	49.8	41.5	29.7	17.7	23.6
65°	162.2	118.2	76.1	62.2	47.9	39.5	44.3	49.2	41.5	28.2	18.8
62.5°	249.3	198.2	148.2	96.7	67.5	51.4	39.0	44.3	49.8	38.5	23.8
60°	338.7	281.9	223.3	166.3	108.7	69.3	51.4	39.5	45.5	48.7	32.7
57.5°	425.8	364.9	301.6	236.4	172.3	108.7	67.5	47.9	41.2	47.7	41.3
55°	520.0	445.6	378.0	308.2	236.4	166.3	96.7	62.2	40.8	44.0	49.8
52.5°	647.1	540.2	452.2	378.0	301.6	223.3	148.2	76.1	53.4	40.5	47.9
50°	767.7	657.3	540.2	445.6	364.9	281.9	198.2	118.2	65.6	41.2	44.9
47.5°	881.9	767.7	647.1	520.0	425.8	338.7	249.3	162.2	77.3	51.6	42.0
45°	989.0	872.0	748.3	616.5	484.8	393.2	299.6	204.7	114.9	61.7	39.1
42.5°	1091.6	970.0	842.6	709.7	566.0	445.4	347.9	248.1	151.5	71.4	42.9
40°	1161.9	1062.8	932.3	794.0	648.8	496.2	393.7	290.0	186.6	87.7	51.0
37.5°	1226.6	1135.6	1015.3	874.7	726.9	568.9	437.4	330.0	220.6	117.2	58.6
35°	1249.4	1193.4	1094.5	949.7	797.8	638.0	478.9	367.7	254.6	145.2	65.9
32.5°	1268.0	1236.6	1147.7	1019.3	864.9	703.3	530.3	403.1	286.6	171.6	72.7
30°	1290.8	1253.0	1195.7	1084.7	927.2	761.3	586.0	436.3	316.6	196.3	82.7
27.5°	1313.8	1268.5	1234.2	1131.5	983.4	815.2	638.0	467.1	344.4	219.9	102.6
25°	1355.0	1286.8	1247.4	1170.0	1035.4	864.9	686.0	496.2	370.0	242.5	121.0
22.5°	1441.7	1305.0	1259.6	1205.2	1083.0	910.4	728.6	535.7	393.2	263.2	137.8
20°	1520.6	1321.6	1270.6	1233.1	1118.2	949.7	765.9	571.3	414.1	281.9	152.9
17.5°	1653.8	1360.4	1283.6	1242.1	1144.2	984.7	799.1	603.0	432.7	298.5	166.3
15°	2054.0	1417.6	1295.6	1250.1	1167.0	1015.3	828.1	630.7	448.9	312.9	178.0
12.5°	2396.9	1466.6	1305.8	1256.8	1186.5	1041.4	852.8	654.3	462.7	325.2	187.9
10°	2680.4	1507.0	1314.2	1262.4	1202.5	1062.8	873.1	673.6	474.1	335.3	196.1
7.5°	2902.8	1538.7	1320.8	1266.8	1215.0	1079.6	889.0	688.8	483.0	343.2	202.5
5°	3062.7	1561.5	1325.6	1269.9	1224.0	1091.6	900.4	699.6	489.3	348.9	207.0
2.5°	3159.1	1575.2	1328.4	1271.8	1229.4	1098.9	907.2	706.1	493.1	352.3	209.8
0°	3191.3	1579.8	1329.4	1272.4	1231.2	1101.3	909.5	708.3	494.4	353.4	210.7
-2.5°	3159.1	1575.2	1328.4	1271.8	1229.4	1098.9	907.2	706.1	493.1	352.3	209.8
-5°	3062.7	1561.5	1325.6	1269.9	1224.0	1091.6	900.4	699.6	489.3	348.9	207.0
-7.5°	2902.8	1538.7	1320.8	1266.8	1215.0	1079.6	889.0	688.8	483.0	343.2	202.5
-10°	2680.4	1507.0	1314.2	1262.4	1202.5	1062.8	873.1	673.6	474.1	335.3	196.1
-12.5°	2396.9	1466.6	1305.8	1256.8	1186.5	1041.4	852.8	654.3	462.7	325.2	187.9
-15°	2054.0	1417.6	1295.6	1250.1	1167.0	1015.3	828.1	630.7	448.9	312.9	178.0
-17.5°	1653.8	1360.4	1283.6	1242.1	1144.2	984.7	799.1	603.0	432.7	298.5	166.3
-20°	1520.6	1321.6	1270.6	1233.1	1118.2	949.7	765.9	571.3	414.1	281.9	152.9



REPORT NUMBER: P413440 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0640L-40-70-1S-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1441.7	1305.0	1259.6	1205.2	1083.0	910.4	728.6	535.7	393.2	263.2	137.8
-25°	1355.0	1286.8	1247.4	1170.0	1035.4	864.9	686.0	496.2	370.0	242.5	121.0
-27.5°	1313.8	1268.5	1234.2	1131.5	983.4	815.2	638.0	467.1	344.4	219.9	102.6
-30°	1290.8	1253.0	1195.7	1084.7	927.2	761.3	586.0	436.3	316.6	196.3	82.7
-32.5°	1268.0	1236.6	1147.7	1019.3	864.9	703.3	530.3	403.1	286.6	171.6	72.7
-35°	1249.4	1193.4	1094.5	949.7	797.8	638.0	478.9	367.7	254.6	145.2	65.9
-37.5°	1226.6	1135.6	1015.3	874.7	726.9	568.9	437.4	330.0	220.6	117.2	58.6
-40°	1161.9	1062.8	932.3	794.0	648.8	496.2	393.7	290.0	186.6	87.7	51.0
-42.5°	1091.6	970.0	842.6	709.7	566.0	445.4	347.9	248.1	151.5	71.4	42.9
-45°	989.0	872.0	748.3	616.5	484.8	393.2	299.6	204.7	114.9	61.7	39.1
-47.5°	881.9	767.7	647.1	520.0	425.8	338.7	249.3	162.2	77.3	51.6	42.0
-50°	767.7	657.3	540.2	445.6	364.9	281.9	198.2	118.2	65.6	41.2	44.9
-52.5°	647.1	540.2	452.2	378.0	301.6	223.3	148.2	76.1	53.4	40.5	47.9
-55°	520.0	445.6	378.0	308.2	236.4	166.3	96.7	62.2	40.8	44.0	49.8
-57.5°	425.8	364.9	301.6	236.4	172.3	108.7	67.5	47.9	41.2	47.7	41.3
-60°	338.7	281.9	223.3	166.3	108.7	69.3	51.4	39.5	45.5	48.7	32.7
-62.5°	249.3	198.2	148.2	96.7	67.5	51.4	39.0	44.3	49.8	38.5	23.8
-65°	162.2	118.2	76.1	62.2	47.9	39.5	44.3	49.2	41.5	28.2	18.8
-67.5°	77.3	65.6	53.4	40.8	41.2	45.5	49.8	41.5	29.7	17.7	23.6
-70°	51.6	41.2	40.5	44.0	47.7	48.7	38.5	28.2	17.7	22.9	28.6
-72.5°	42.0	44.9	47.9	49.8	41.3	32.7	23.8	18.8	23.6	28.6	33.6
-75°	50.3	45.1	38.2	31.2	24.0	17.9	21.9	25.9	30.1	34.4	29.8
-77.5°	29.5	24.0	18.3	20.0	23.2	26.4	29.7	33.2	32.5	27.7	22.8
-80°	22.7	25.0	27.4	29.9	32.4	34.7	31.1	27.4	23.6	19.7	15.8
-82.5°	34.5	33.1	30.7	28.2	25.6	22.9	20.2	17.4	14.6	11.7	10.0
-85°	19.4	17.9	16.3	14.6	12.9	11.1	10.2	9.4	8.5	7.6	6.7
-87.5°	7.5	7.1	6.8	6.4	6.0	5.5	5.1	4.7	4.2	3.8	3.3
-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: P413440 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0640L-40-70-1S-HEG

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°	2.9	2.4	1.9	1.4	1.0	0.5	0.0
85°	5.7	4.8	3.9	2.9	1.9	1.0	0.0
82.5°	8.6	7.2	5.8	4.3	2.9	1.4	0.0
80°	11.8	9.6	7.7	5.8	3.9	1.9	0.0
77.5°	17.9	12.9	9.6	7.2	4.8	2.4	0.0
75°	23.9	17.9	11.8	8.6	5.7	2.9	0.0
72.5°	29.8	22.8	15.8	10.0	6.7	3.3	0.0
70°	34.4	27.7	19.7	11.7	7.6	3.8	0.0
67.5°	30.1	32.5	23.6	14.6	8.5	4.2	0.0
65°	25.9	33.2	27.4	17.4	9.4	4.7	0.0
62.5°	21.9	29.7	31.1	20.2	10.2	5.1	0.0
60°	17.9	26.4	34.7	22.9	11.1	5.5	0.0
57.5°	24.0	23.2	32.4	25.6	12.9	6.0	0.0
55°	31.2	20.0	29.9	28.2	14.6	6.4	0.0
52.5°	38.2	18.3	27.4	30.7	16.3	6.8	0.0
50°	45.1	24.0	25.0	33.1	17.9	7.1	0.0
47.5°	50.3	29.5	22.7	34.5	19.4	7.5	0.0
45°	47.9	34.8	20.5	32.8	20.9	7.8	0.0
42.5°	45.6	39.8	18.4	31.2	22.4	8.2	0.0
40°	43.4	44.6	19.3	29.7	23.7	8.5	0.0
37.5°	41.3	49.2	23.0	28.3	25.0	8.8	0.0
35°	39.3	49.6	26.4	26.9	26.3	9.1	0.0
32.5°	39.7	48.1	29.7	25.7	27.4	9.4	0.0
30°	45.2	46.6	32.7	24.5	28.5	9.6	0.0
27.5°	50.2	45.3	35.5	23.4	29.5	9.8	0.0
25°	54.9	44.0	38.1	22.3	30.4	10.1	0.0
22.5°	59.1	42.9	40.5	21.4	31.3	10.3	0.0
20°	63.0	41.9	42.6	20.6	32.0	10.4	0.0
17.5°	66.4	41.0	44.5	19.8	32.7	10.6	0.0
15°	69.3	40.2	46.1	19.2	33.3	10.7	0.0
12.5°	71.8	39.5	47.5	18.7	33.8	10.8	0.0
10°	73.9	39.0	48.7	18.2	34.2	10.9	0.0
7.5°	75.5	38.6	49.5	17.9	34.5	11.0	0.0
5°	76.7	38.2	50.2	17.6	34.7	11.1	0.0
2.5°	77.4	38.1	50.6	17.5	34.9	11.1	0.0
0°	77.6	38.0	50.7	17.4	34.9	11.1	0.0
-2.5°	77.4	38.1	50.6	17.5	34.9	11.1	0.0
-5°	76.7	38.2	50.2	17.6	34.7	11.1	0.0
-7.5°	75.5	38.6	49.5	17.9	34.5	11.0	0.0
-10°	73.9	39.0	48.7	18.2	34.2	10.9	0.0
-12.5°	71.8	39.5	47.5	18.7	33.8	10.8	0.0
-15°	69.3	40.2	46.1	19.2	33.3	10.7	0.0
-17.5°	66.4	41.0	44.5	19.8	32.7	10.6	0.0
-20°	63.0	41.9	42.6	20.6	32.0	10.4	0.0



REPORT NUMBER: P413440 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0640L-40-70-1S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	59.1	42.9	40.5	21.4	31.3	10.3	0.0
-25°	54.9	44.0	38.1	22.3	30.4	10.1	0.0
-27.5°	50.2	45.3	35.5	23.4	29.5	9.8	0.0
-30°	45.2	46.6	32.7	24.5	28.5	9.6	0.0
-32.5°	39.7	48.1	29.7	25.7	27.4	9.4	0.0
-35°	39.3	49.6	26.4	26.9	26.3	9.1	0.0
-37.5°	41.3	49.2	23.0	28.3	25.0	8.8	0.0
-40°	43.4	44.6	19.3	29.7	23.7	8.5	0.0
-42.5°	45.6	39.8	18.4	31.2	22.4	8.2	0.0
-45°	47.9	34.8	20.5	32.8	20.9	7.8	0.0
-47.5°	50.3	29.5	22.7	34.5	19.4	7.5	0.0
-50°	45.1	24.0	25.0	33.1	17.9	7.1	0.0
-52.5°	38.2	18.3	27.4	30.7	16.3	6.8	0.0
-55°	31.2	20.0	29.9	28.2	14.6	6.4	0.0
-57.5°	24.0	23.2	32.4	25.6	12.9	6.0	0.0
-60°	17.9	26.4	34.7	22.9	11.1	5.5	0.0
-62.5°	21.9	29.7	31.1	20.2	10.2	5.1	0.0
-65°	25.9	33.2	27.4	17.4	9.4	4.7	0.0
-67.5°	30.1	32.5	23.6	14.6	8.5	4.2	0.0
-70°	34.4	27.7	19.7	11.7	7.6	3.8	0.0
-72.5°	29.8	22.8	15.8	10.0	6.7	3.3	0.0
-75°	23.9	17.9	11.8	8.6	5.7	2.9	0.0
-77.5°	17.9	12.9	9.6	7.2	4.8	2.4	0.0
-80°	11.8	9.6	7.7	5.8	3.9	1.9	0.0
-82.5°	8.6	7.2	5.8	4.3	2.9	1.4	0.0
-85°	5.7	4.8	3.9	2.9	1.9	1.0	0.0
-87.5°	2.9	2.4	1.9	1.4	1.0	0.5	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)