

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: P731201 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-70-4S-HEG**

Issue Date: 11/16/2023

Test Information

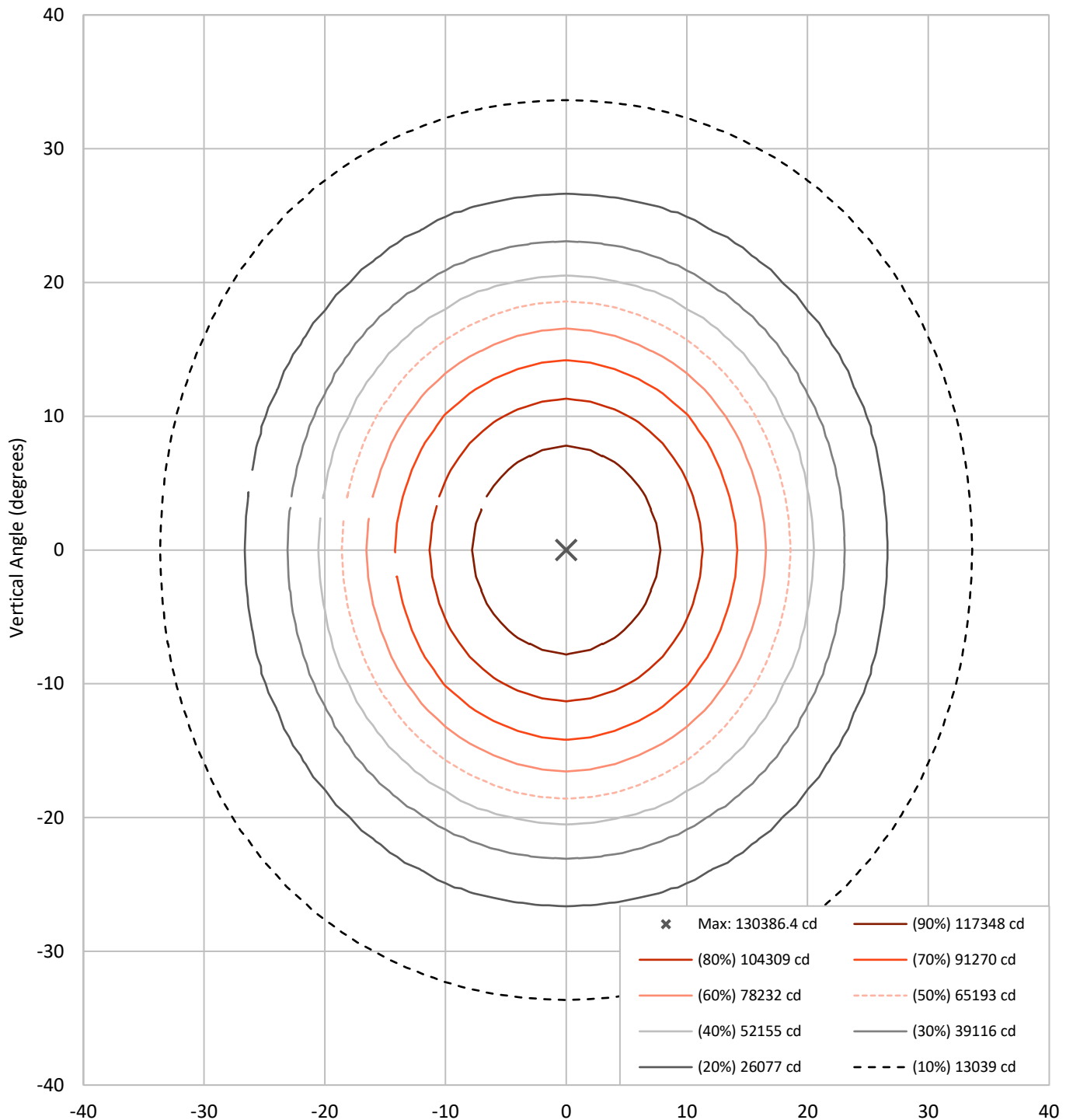
Test Method: LM-79-08
Report Number: P731201 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-40-70-4S-HEG
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 4S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	60213.6 lumens	Max Intensity:	130386.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	174.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	37.2°H x 37.2°V	Field Angle (10%):	67.2°H x 67.2°V
Beam Lumens:	31346.7 lumens	Field Lumens:	52657.2 lumens
Beam Efficiency:	52.1%	Field Efficiency:	87.5%
Input Watts (W):	345.8		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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Iso-Candela Plot





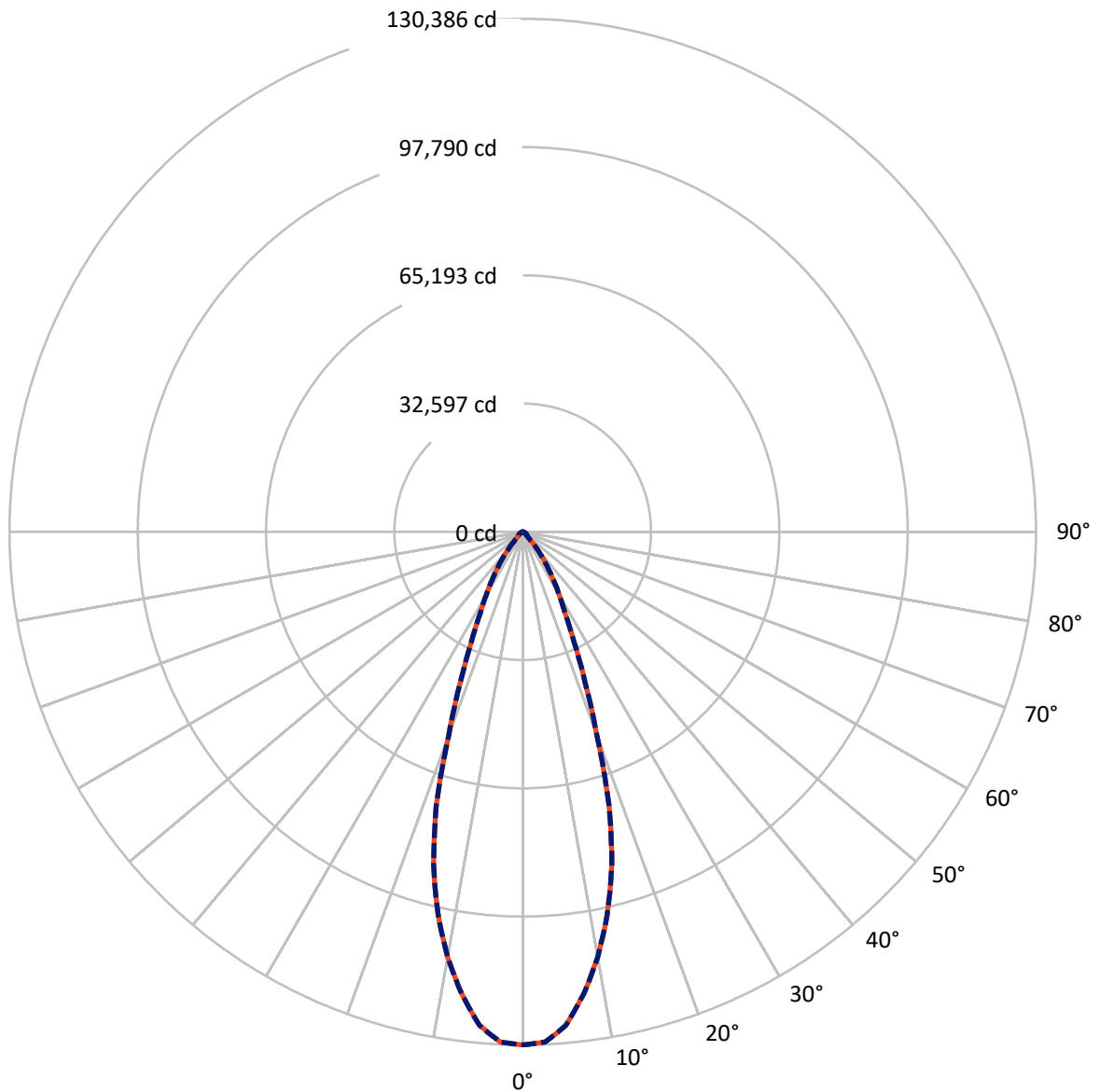
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Lumen Table

90																
80	0.1	0.5		1.8		4.3		5.6		4.3		1.8		0.5		0.1
70																
60	0.2	0.3	1.1	3.0	6.3	10.2	13.6	15.5	15.5	13.6	10.2	6.3	3.0	1.1	0.3	0.2
50		0.8	3.6	9.7	17.8	25.0	30.3	33.2	33.2	30.3	25.0	17.8	9.7	3.6	0.8	
40	0.6	1.9	7.9	18.0	28.1	38.9	55.9	73.8	73.8	55.9	38.9	28.1	18.0	7.9	1.9	0.6
30		3.3	12.6	24.3	42.1	113.3	239.7	332.5	332.5	239.7	113.3	42.1	24.3	12.6	3.3	
20	1.2	4.9	16.0	30.5	103.1	322.2	630.2	937.1	937.1	630.2	322.2	103.1	30.5	16.0	4.9	1.2
10		6.2	18.2	41.4	205.3	593.4	1469.4	2412.2	2412.2	1469.4	593.4	205.3	41.4	18.2	6.2	
0	1.5	6.8	19.3	53.4	276.3	858.0	2344.0	3530.8	3530.8	2344.0	858.0	276.3	53.4	19.3	6.8	1.5
-10		6.8	19.3	53.4	276.3	858.0	2344.0	3530.8	3530.8	2344.0	858.0	276.3	53.4	19.3	6.8	
-20	1.2	6.2	18.2	41.4	205.3	593.4	1469.4	2412.2	2412.2	1469.4	593.4	205.3	41.4	18.2	6.2	1.2
-30		4.9	16.0	30.5	103.1	322.2	630.2	937.1	937.1	630.2	322.2	103.1	30.5	16.0	4.9	
-40	0.6	3.3	12.6	24.3	42.1	113.3	239.7	332.5	332.5	239.7	113.3	42.1	24.3	12.6	3.3	0.6
-50		1.9	7.9	18.0	28.1	38.9	55.9	73.8	73.8	55.9	38.9	28.1	18.0	7.9	1.9	
-60	0.2	0.8	3.6	9.7	17.8	25.0	30.3	33.2	33.2	30.3	25.0	17.8	9.7	3.6	0.8	0.2
-70		0.3	1.1	3.0	6.3	10.2	13.6	15.5	15.5	13.6	10.2	6.3	3.0	1.1	0.3	
-80																
-90	0.1	0.5		1.8		4.3		5.6		4.3		1.8		0.5		0.1

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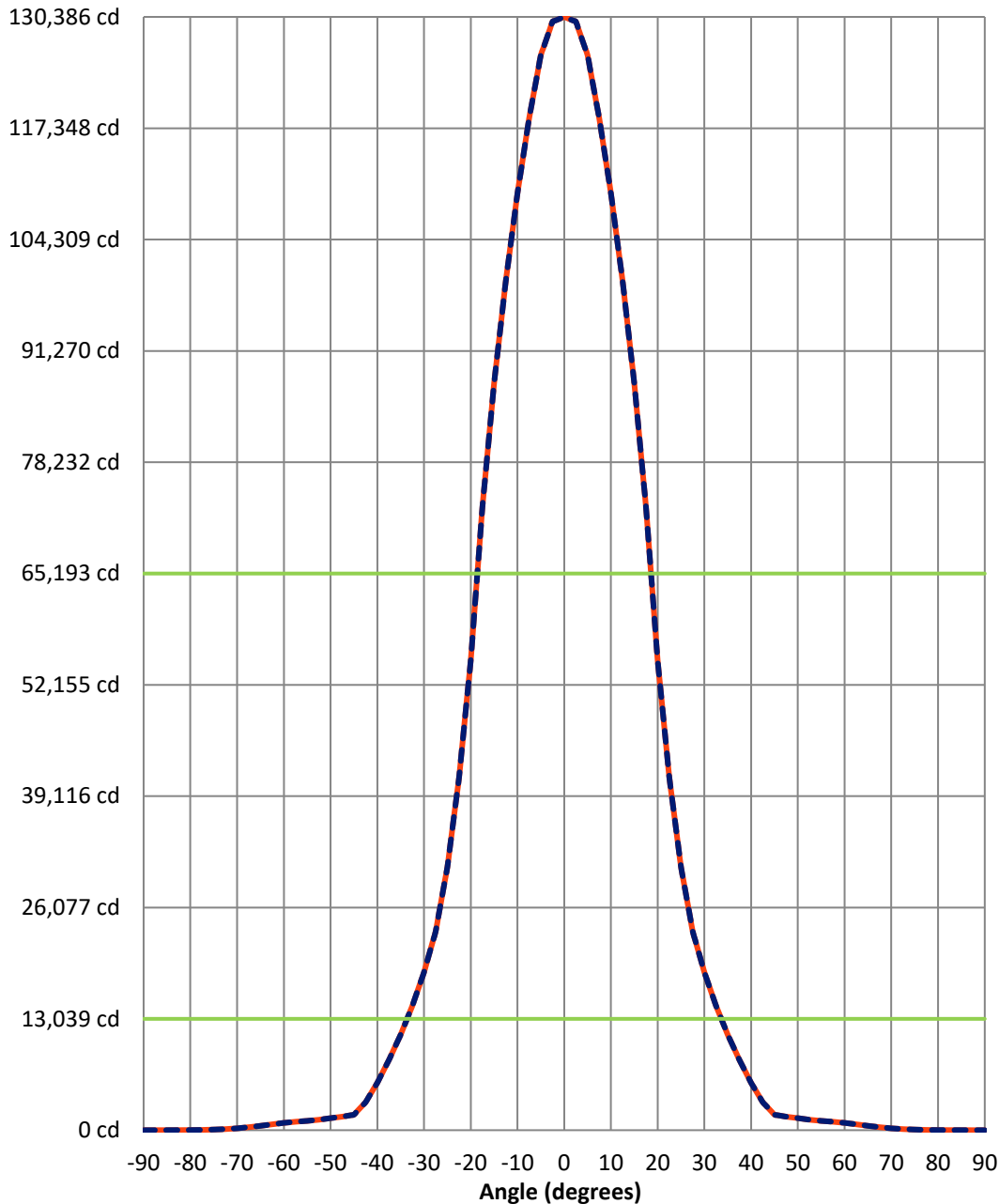
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 37.2°
 V Angle: 37.2°
 Lumens: 31346.7
 Efficiency: 52.1%

Field:
 H Angle: 67.2°
 V Angle: 67.2°
 Lumens: 52657.2
 Efficiency: 87.5%

Spill:
 Lumens: 7556.5
 Efficiency: 12.5%

- 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	0.1	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.3
85°	0.0	0.3	0.5	0.8	1.0	1.3	1.6	1.8	2.0	2.3	2.5
82.5°	0.0	0.4	0.8	1.2	1.6	1.9	2.3	2.7	3.1	3.4	3.8
80°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.6	5.1
77.5°	0.0	0.6	1.3	1.9	2.6	3.2	3.9	4.5	5.1	5.7	6.5
75°	0.0	0.8	1.6	2.3	3.1	3.9	4.6	5.4	6.2	7.4	8.6
72.5°	0.0	0.9	1.8	2.7	3.6	4.5	5.4	6.4	7.8	9.2	10.6
70°	0.0	1.0	2.0	3.1	4.1	5.1	6.2	7.8	9.4	11.0	12.6
67.5°	0.0	1.1	2.3	3.4	4.6	5.7	7.4	9.2	11.0	12.8	14.6
65°	0.0	1.3	2.5	3.8	5.1	6.5	8.6	10.6	12.6	14.6	17.9
62.5°	0.0	1.4	2.8	4.1	5.5	7.5	9.7	12.0	14.2	17.1	24.1
60°	0.0	1.5	3.0	4.5	6.0	8.4	10.9	13.3	15.7	22.6	30.2
57.5°	0.0	1.6	3.2	4.8	6.7	9.4	12.0	14.6	19.8	28.0	41.9
55°	0.0	1.7	3.4	5.2	7.4	10.3	13.1	15.9	24.5	34.9	56.0
52.5°	0.0	1.8	3.6	5.5	8.1	11.1	14.1	19.5	29.0	47.3	69.8
50°	0.0	1.9	3.9	5.8	8.8	12.0	15.2	23.4	35.2	59.3	87.7
47.5°	0.0	2.0	4.1	6.1	9.5	12.8	16.5	27.1	45.5	70.9	105.6
45°	0.0	2.1	4.2	6.6	10.1	13.6	19.5	30.7	55.5	86.3	122.9
42.5°	0.0	2.2	4.4	7.0	10.7	14.4	22.4	36.9	65.0	101.2	149.5
40°	0.0	2.3	4.6	7.5	11.3	15.1	25.2	44.9	75.3	115.5	176.5
37.5°	0.0	2.4	4.8	7.9	11.8	15.8	27.9	52.5	87.3	131.7	202.4
35°	0.0	2.5	4.9	8.3	12.4	17.4	30.4	59.6	98.7	153.7	231.0
32.5°	0.0	2.5	5.1	8.6	12.8	19.3	33.8	66.4	109.4	174.3	264.1
30°	0.0	2.6	5.2	9.0	13.3	21.2	39.2	73.3	119.4	193.7	295.2
27.5°	0.0	2.7	5.3	9.3	13.7	22.9	44.2	81.4	131.2	211.7	324.2
25°	0.0	2.7	5.4	9.6	14.1	24.5	48.8	88.8	145.9	233.0	351.1
22.5°	0.0	2.8	5.5	9.9	14.5	25.9	53.0	95.7	159.2	254.8	380.6
20°	0.0	2.8	5.6	10.1	14.8	27.2	56.8	101.8	171.3	274.4	407.1
17.5°	0.0	2.9	5.7	10.3	15.1	28.3	60.1	107.2	182.0	291.9	430.7
15°	0.0	2.9	5.8	10.5	15.3	29.3	63.0	112.0	191.4	307.1	451.4
12.5°	0.0	2.9	5.9	10.6	15.5	30.2	65.5	116.0	199.3	320.1	468.9
10°	0.0	3.0	5.9	10.8	15.7	30.9	67.6	119.4	205.8	330.7	483.4
7.5°	0.0	3.0	5.9	10.9	15.8	31.4	69.1	122.0	210.9	339.1	494.6
5°	0.0	3.0	6.0	10.9	15.9	31.8	70.3	123.8	214.6	345.0	502.7
2.5°	0.0	3.0	6.0	11.0	16.0	32.0	71.0	124.9	216.8	348.6	507.6
0°	0.0	3.0	6.0	11.0	16.0	32.1	71.2	125.3	217.5	349.8	509.2
-2.5°	0.0	3.0	6.0	11.0	16.0	32.0	71.0	124.9	216.8	348.6	507.6
-5°	0.0	3.0	6.0	10.9	15.9	31.8	70.3	123.8	214.6	345.0	502.7
-7.5°	0.0	3.0	5.9	10.9	15.8	31.4	69.1	122.0	210.9	339.1	494.6
-10°	0.0	3.0	5.9	10.8	15.7	30.9	67.6	119.4	205.8	330.7	483.4
-12.5°	0.0	2.9	5.9	10.6	15.5	30.2	65.5	116.0	199.3	320.1	468.9
-15°	0.0	2.9	5.8	10.5	15.3	29.3	63.0	112.0	191.4	307.1	451.4
-17.5°	0.0	2.9	5.7	10.3	15.1	28.3	60.1	107.2	182.0	291.9	430.7
-20°	0.0	2.8	5.6	10.1	14.8	27.2	56.8	101.8	171.3	274.4	407.1



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-HEG

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	2.8	5.5	9.9	14.5	25.9	53.0	95.7	159.2	254.8	380.6
-25°	0.0	2.7	5.4	9.6	14.1	24.5	48.8	88.8	145.9	233.0	351.1
-27.5°	0.0	2.7	5.3	9.3	13.7	22.9	44.2	81.4	131.2	211.7	324.2
-30°	0.0	2.6	5.2	9.0	13.3	21.2	39.2	73.3	119.4	193.7	295.2
-32.5°	0.0	2.5	5.1	8.6	12.8	19.3	33.8	66.4	109.4	174.3	264.1
-35°	0.0	2.5	4.9	8.3	12.4	17.4	30.4	59.6	98.7	153.7	231.0
-37.5°	0.0	2.4	4.8	7.9	11.8	15.8	27.9	52.5	87.3	131.7	202.4
-40°	0.0	2.3	4.6	7.5	11.3	15.1	25.2	44.9	75.3	115.5	176.5
-42.5°	0.0	2.2	4.4	7.0	10.7	14.4	22.4	36.9	65.0	101.2	149.5
-45°	0.0	2.1	4.2	6.6	10.1	13.6	19.5	30.7	55.5	86.3	122.9
-47.5°	0.0	2.0	4.1	6.1	9.5	12.8	16.5	27.1	45.5	70.9	105.6
-50°	0.0	1.9	3.9	5.8	8.8	12.0	15.2	23.4	35.2	59.3	87.7
-52.5°	0.0	1.8	3.6	5.5	8.1	11.1	14.1	19.5	29.0	47.3	69.8
-55°	0.0	1.7	3.4	5.2	7.4	10.3	13.1	15.9	24.5	34.9	56.0
-57.5°	0.0	1.6	3.2	4.8	6.7	9.4	12.0	14.6	19.8	28.0	41.9
-60°	0.0	1.5	3.0	4.5	6.0	8.4	10.9	13.3	15.7	22.6	30.2
-62.5°	0.0	1.4	2.8	4.1	5.5	7.5	9.7	12.0	14.2	17.1	24.1
-65°	0.0	1.3	2.5	3.8	5.1	6.5	8.6	10.6	12.6	14.6	17.9
-67.5°	0.0	1.1	2.3	3.4	4.6	5.7	7.4	9.2	11.0	12.8	14.6
-70°	0.0	1.0	2.0	3.1	4.1	5.1	6.2	7.8	9.4	11.0	12.6
-72.5°	0.0	0.9	1.8	2.7	3.6	4.5	5.4	6.4	7.8	9.2	10.6
-75°	0.0	0.8	1.6	2.3	3.1	3.9	4.6	5.4	6.2	7.4	8.6
-77.5°	0.0	0.6	1.3	1.9	2.6	3.2	3.9	4.5	5.1	5.7	6.5
-80°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.6	5.1
-82.5°	0.0	0.4	0.8	1.2	1.6	1.9	2.3	2.7	3.1	3.4	3.8
-85°	0.0	0.3	0.5	0.8	1.0	1.3	1.6	1.8	2.0	2.3	2.5
-87.5°	0.0	0.1	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.3
-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°	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4
85°	2.8	3.0	3.2	3.4	3.6	3.9	4.1	4.2	4.4	4.6	4.8
82.5°	4.1	4.5	4.8	5.2	5.5	5.8	6.1	6.6	7.0	7.5	7.9
80°	5.5	6.0	6.7	7.4	8.1	8.8	9.5	10.1	10.7	11.3	11.8
77.5°	7.5	8.4	9.4	10.3	11.1	12.0	12.8	13.6	14.4	15.1	15.8
75°	9.7	10.9	12.0	13.1	14.1	15.2	16.5	19.5	22.4	25.2	27.9
72.5°	12.0	13.3	14.6	15.9	19.5	23.4	27.1	30.7	36.9	44.9	52.5
70°	14.2	15.7	19.8	24.5	29.0	35.2	45.5	55.5	65.0	75.3	87.3
67.5°	17.1	22.6	28.0	34.9	47.3	59.3	70.9	86.3	101.2	115.5	131.7
65°	24.1	30.2	41.9	56.0	69.8	87.7	105.6	122.9	149.5	176.5	202.4
62.5°	30.9	45.4	61.3	78.9	99.9	120.2	150.3	182.7	213.9	255.3	296.3
60°	45.4	63.0	83.8	107.2	133.4	171.3	208.0	254.8	303.8	351.1	405.3
57.5°	61.3	83.8	109.7	141.9	184.0	228.3	285.5	340.8	403.2	464.9	525.6
55°	78.9	107.2	141.9	188.3	240.6	304.0	368.9	440.8	510.4	584.7	656.0
52.5°	99.9	133.4	184.0	240.6	310.2	384.0	463.6	544.4	627.6	706.8	780.6
50°	120.2	171.3	228.3	304.0	384.0	471.2	561.6	653.5	740.3	822.8	891.5
47.5°	150.3	208.0	285.5	368.9	463.6	561.6	662.2	757.2	848.4	917.8	982.6
45°	182.7	254.8	340.8	440.8	544.4	653.5	757.2	857.0	931.1	999.4	1053.1
42.5°	213.9	303.8	403.2	510.4	627.6	740.3	848.4	931.1	1004.6	1063.8	1131.4
40°	255.3	351.1	464.9	584.7	706.8	822.8	917.8	999.4	1063.8	1138.7	1219.0
37.5°	296.3	405.3	525.6	656.0	780.6	891.5	982.6	1053.1	1131.4	1219.0	1337.0
35°	335.2	456.8	588.1	722.3	851.0	949.4	1031.9	1109.9	1204.2	1326.4	1448.4
32.5°	376.5	505.5	647.3	784.1	903.5	1000.6	1077.9	1175.1	1294.8	1429.0	1547.7
30°	418.1	556.0	702.3	842.3	951.7	1041.0	1132.0	1242.7	1388.1	1518.1	1665.3
27.5°	456.8	603.4	752.2	887.3	994.7	1078.9	1186.2	1324.8	1469.3	1610.0	1788.8
25°	492.6	647.3	798.4	925.9	1027.2	1122.5	1242.3	1401.4	1543.0	1718.4	2381.6
22.5°	527.1	687.4	840.8	961.2	1057.1	1165.5	1307.8	1465.8	1622.1	1843.9	3058.3
20°	560.0	722.3	873.9	991.9	1084.3	1204.6	1367.5	1523.5	1707.6	2421.2	3909.5
17.5°	589.2	753.4	900.0	1014.2	1115.0	1246.3	1420.1	1575.3	1784.6	2942.0	4787.1
15°	614.8	780.6	922.9	1033.7	1143.2	1289.6	1462.1	1635.6	2053.5	3476.6	5569.4
12.5°	636.6	803.8	942.4	1050.3	1167.3	1326.7	1498.2	1689.4	2419.0	4095.6	6362.5
10°	654.5	822.8	958.5	1064.0	1187.2	1357.3	1528.0	1733.9	2722.2	4610.0	7022.9
7.5°	668.5	837.7	971.1	1074.7	1202.7	1381.2	1551.4	1768.9	2960.6	5015.2	7544.1
5°	678.6	848.4	980.1	1082.4	1213.9	1398.5	1568.2	1794.1	3132.4	5307.5	7920.5
2.5°	684.6	854.9	985.5	1087.1	1220.7	1408.8	1578.3	1809.2	3236.1	5484.0	8148.1
0°	686.6	857.0	987.3	1088.6	1222.9	1412.3	1581.7	1814.3	3270.7	5543.0	8224.3
-2.5°	684.6	854.9	985.5	1087.1	1220.7	1408.8	1578.3	1809.2	3236.1	5484.0	8148.1
-5°	678.6	848.4	980.1	1082.4	1213.9	1398.5	1568.2	1794.1	3132.4	5307.5	7920.5
-7.5°	668.5	837.7	971.1	1074.7	1202.7	1381.2	1551.4	1768.9	2960.6	5015.2	7544.1
-10°	654.5	822.8	958.5	1064.0	1187.2	1357.3	1528.0	1733.9	2722.2	4610.0	7022.9
-12.5°	636.6	803.8	942.4	1050.3	1167.3	1326.7	1498.2	1689.4	2419.0	4095.6	6362.5
-15°	614.8	780.6	922.9	1033.7	1143.2	1289.6	1462.1	1635.6	2053.5	3476.6	5569.4
-17.5°	589.2	753.4	900.0	1014.2	1115.0	1246.3	1420.1	1575.3	1784.6	2942.0	4787.1
-20°	560.0	722.3	873.9	991.9	1084.3	1204.6	1367.5	1523.5	1707.6	2421.2	3909.5



REPORT NUMBER: P731201 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	527.1	687.4	840.8	961.2	1057.1	1165.5	1307.8	1465.8	1622.1	1843.9	3058.3
-25°	492.6	647.3	798.4	925.9	1027.2	1122.5	1242.3	1401.4	1543.0	1718.4	2381.6
-27.5°	456.8	603.4	752.2	887.3	994.7	1078.9	1186.2	1324.8	1469.3	1610.0	1788.8
-30°	418.1	556.0	702.3	842.3	951.7	1041.0	1132.0	1242.7	1388.1	1518.1	1665.3
-32.5°	376.5	505.5	647.3	784.1	903.5	1000.6	1077.9	1175.1	1294.8	1429.0	1547.7
-35°	335.2	456.8	588.1	722.3	851.0	949.4	1031.9	1109.9	1204.2	1326.4	1448.4
-37.5°	296.3	405.3	525.6	656.0	780.6	891.5	982.6	1053.1	1131.4	1219.0	1337.0
-40°	255.3	351.1	464.9	584.7	706.8	822.8	917.8	999.4	1063.8	1138.7	1219.0
-42.5°	213.9	303.8	403.2	510.4	627.6	740.3	848.4	931.1	1004.6	1063.8	1131.4
-45°	182.7	254.8	340.8	440.8	544.4	653.5	757.2	857.0	931.1	999.4	1053.1
-47.5°	150.3	208.0	285.5	368.9	463.6	561.6	662.2	757.2	848.4	917.8	982.6
-50°	120.2	171.3	228.3	304.0	384.0	471.2	561.6	653.5	740.3	822.8	891.5
-52.5°	99.9	133.4	184.0	240.6	310.2	384.0	463.6	544.4	627.6	706.8	780.6
-55°	78.9	107.2	141.9	188.3	240.6	304.0	368.9	440.8	510.4	584.7	656.0
-57.5°	61.3	83.8	109.7	141.9	184.0	228.3	285.5	340.8	403.2	464.9	525.6
-60°	45.4	63.0	83.8	107.2	133.4	171.3	208.0	254.8	303.8	351.1	405.3
-62.5°	30.9	45.4	61.3	78.9	99.9	120.2	150.3	182.7	213.9	255.3	296.3
-65°	24.1	30.2	41.9	56.0	69.8	87.7	105.6	122.9	149.5	176.5	202.4
-67.5°	17.1	22.6	28.0	34.9	47.3	59.3	70.9	86.3	101.2	115.5	131.7
-70°	14.2	15.7	19.8	24.5	29.0	35.2	45.5	55.5	65.0	75.3	87.3
-72.5°	12.0	13.3	14.6	15.9	19.5	23.4	27.1	30.7	36.9	44.9	52.5
-75°	9.7	10.9	12.0	13.1	14.1	15.2	16.5	19.5	22.4	25.2	27.9
-77.5°	7.5	8.4	9.4	10.3	11.1	12.0	12.8	13.6	14.4	15.1	15.8
-80°	5.5	6.0	6.7	7.4	8.1	8.8	9.5	10.1	10.7	11.3	11.8
-82.5°	4.1	4.5	4.8	5.2	5.5	5.8	6.1	6.6	7.0	7.5	7.9
-85°	2.8	3.0	3.2	3.4	3.6	3.9	4.1	4.2	4.4	4.6	4.8
-87.5°	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4
-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: P731201 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-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°	2.5	2.5	2.6	2.7	2.7	2.8	2.8	2.9	2.9	2.9	3.0
85°	4.9	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	5.9
82.5°	8.3	8.6	9.0	9.3	9.6	9.9	10.1	10.3	10.5	10.6	10.8
80°	12.4	12.8	13.3	13.7	14.1	14.5	14.8	15.1	15.3	15.5	15.7
77.5°	17.4	19.3	21.2	22.9	24.5	25.9	27.2	28.3	29.3	30.2	30.9
75°	30.4	33.8	39.2	44.2	48.8	53.0	56.8	60.1	63.0	65.5	67.6
72.5°	59.6	66.4	73.3	81.4	88.8	95.7	101.8	107.2	112.0	116.0	119.4
70°	98.7	109.4	119.4	131.2	145.9	159.2	171.3	182.0	191.4	199.3	205.8
67.5°	153.7	174.3	193.7	211.7	233.0	254.8	274.4	291.9	307.1	320.1	330.7
65°	231.0	264.1	295.2	324.2	351.1	380.6	407.1	430.7	451.4	468.9	483.4
62.5°	335.2	376.5	418.1	456.8	492.6	527.1	560.0	589.2	614.8	636.6	654.5
60°	456.8	505.5	556.0	603.4	647.3	687.4	722.3	753.4	780.6	803.8	822.8
57.5°	588.1	647.3	702.3	752.2	798.4	840.8	873.9	900.0	922.9	942.4	958.5
55°	722.3	784.1	842.3	887.3	925.9	961.2	991.9	1014.2	1033.7	1050.3	1064.0
52.5°	851.0	903.5	951.7	994.7	1027.2	1057.1	1084.3	1115.0	1143.2	1167.3	1187.2
50°	949.4	1000.6	1041.0	1078.9	1122.5	1165.5	1204.6	1246.3	1289.6	1326.7	1357.3
47.5°	1031.9	1077.9	1132.0	1186.2	1242.3	1307.8	1367.5	1420.1	1462.1	1498.2	1528.0
45°	1109.9	1175.1	1242.7	1324.8	1401.4	1465.8	1523.5	1575.3	1635.6	1689.4	1733.9
42.5°	1204.2	1294.8	1388.1	1469.3	1543.0	1622.1	1707.6	1784.6	2053.5	2419.0	2722.2
40°	1326.4	1429.0	1518.1	1610.0	1718.4	1843.9	2421.2	2942.0	3476.6	4095.6	4610.0
37.5°	1448.4	1547.7	1665.3	1788.8	2381.6	3058.3	3909.5	4787.1	5569.4	6362.5	7022.9
35°	1557.6	1693.2	1923.0	2747.5	3667.5	4800.1	5898.6	7016.8	8011.5	8938.7	9730.9
32.5°	1693.2	2013.3	2932.7	4112.2	5407.7	6815.7	8141.1	9462.4	10649.4	11754.4	12744.1
30°	1923.0	2932.7	4261.8	5747.0	7377.1	8980.2	10549.7	12102.9	13577.2	14913.6	16171.9
27.5°	2747.5	4112.2	5747.0	7566.2	9411.0	11223.1	13154.7	14991.3	16852.6	18485.2	20165.6
25°	3667.5	5407.7	7377.1	9411.0	11481.1	13690.9	15962.1	18193.3	20594.1	22770.6	25378.2
22.5°	4800.1	6815.7	8980.2	11223.1	13690.9	16290.3	18964.1	21903.0	25324.8	29067.8	32842.5
20°	5898.6	8141.1	10549.7	13154.7	15962.1	18964.1	22346.9	26790.4	31593.9	37316.6	42561.9
17.5°	7016.8	9462.4	12102.9	14991.3	18193.3	21903.0	26790.4	32687.7	39636.1	47383.1	54603.2
15°	8011.5	10649.4	13577.2	16852.6	20594.1	25324.8	31593.9	39636.1	49036.8	59099.1	69649.1
12.5°	8938.7	11754.4	14913.6	18485.2	22770.6	29067.8	37316.6	47383.1	59099.1	72211.5	81913.7
10°	9730.9	12744.1	16171.9	20165.6	25378.2	32842.5	42561.9	54603.2	69649.1	81913.7	91909.8
7.5°	10357.5	13529.1	17173.4	21509.8	27710.4	36449.8	47853.1	62259.5	77429.4	89718.6	99546.7
5°	10810.9	14098.4	17901.7	22490.7	29419.8	39109.3	51784.1	68106.2	82867.9	95070.9	104993.4
2.5°	11085.4	14443.5	18344.1	23088.1	30464.1	40740.9	54209.8	71743.6	86292.1	98355.2	108482.3
0°	11177.3	14559.2	18492.5	23288.7	30815.4	41291.0	55030.3	72979.5	87463.5	99444.2	109715.8
-2.5°	11085.4	14443.5	18344.1	23088.1	30464.1	40740.9	54209.8	71743.6	86292.1	98355.2	108482.3
-5°	10810.9	14098.4	17901.7	22490.7	29419.8	39109.3	51784.1	68106.2	82867.9	95070.9	104993.4
-7.5°	10357.5	13529.1	17173.4	21509.8	27710.4	36449.8	47853.1	62259.5	77429.4	89718.6	99546.7
-10°	9730.9	12744.1	16171.9	20165.6	25378.2	32842.5	42561.9	54603.2	69649.1	81913.7	91909.8
-12.5°	8938.7	11754.4	14913.6	18485.2	22770.6	29067.8	37316.6	47383.1	59099.1	72211.5	81913.7
-15°	8011.5	10649.4	13577.2	16852.6	20594.1	25324.8	31593.9	39636.1	49036.8	59099.1	69649.1
-17.5°	7016.8	9462.4	12102.9	14991.3	18193.3	21903.0	26790.4	32687.7	39636.1	47383.1	54603.2
-20°	5898.6	8141.1	10549.7	13154.7	15962.1	18964.1	22346.9	26790.4	31593.9	37316.6	42561.9



REPORT NUMBER: P731201 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4800.1	6815.7	8980.2	11223.1	13690.9	16290.3	18964.1	21903.0	25324.8	29067.8	32842.5
-25°	3667.5	5407.7	7377.1	9411.0	11481.1	13690.9	15962.1	18193.3	20594.1	22770.6	25378.2
-27.5°	2747.5	4112.2	5747.0	7566.2	9411.0	11223.1	13154.7	14991.3	16852.6	18485.2	20165.6
-30°	1923.0	2932.7	4261.8	5747.0	7377.1	8980.2	10549.7	12102.9	13577.2	14913.6	16171.9
-32.5°	1693.2	2013.3	2932.7	4112.2	5407.7	6815.7	8141.1	9462.4	10649.4	11754.4	12744.1
-35°	1557.6	1693.2	1923.0	2747.5	3667.5	4800.1	5898.6	7016.8	8011.5	8938.7	9730.9
-37.5°	1448.4	1547.7	1665.3	1788.8	2381.6	3058.3	3909.5	4787.1	5569.4	6362.5	7022.9
-40°	1326.4	1429.0	1518.1	1610.0	1718.4	1843.9	2421.2	2942.0	3476.6	4095.6	4610.0
-42.5°	1204.2	1294.8	1388.1	1469.3	1543.0	1622.1	1707.6	1784.6	2053.5	2419.0	2722.2
-45°	1109.9	1175.1	1242.7	1324.8	1401.4	1465.8	1523.5	1575.3	1635.6	1689.4	1733.9
-47.5°	1031.9	1077.9	1132.0	1186.2	1242.3	1307.8	1367.5	1420.1	1462.1	1498.2	1528.0
-50°	949.4	1000.6	1041.0	1078.9	1122.5	1165.5	1204.6	1246.3	1289.6	1326.7	1357.3
-52.5°	851.0	903.5	951.7	994.7	1027.2	1057.1	1084.3	1115.0	1143.2	1167.3	1187.2
-55°	722.3	784.1	842.3	887.3	925.9	961.2	991.9	1014.2	1033.7	1050.3	1064.0
-57.5°	588.1	647.3	702.3	752.2	798.4	840.8	873.9	900.0	922.9	942.4	958.5
-60°	456.8	505.5	556.0	603.4	647.3	687.4	722.3	753.4	780.6	803.8	822.8
-62.5°	335.2	376.5	418.1	456.8	492.6	527.1	560.0	589.2	614.8	636.6	654.5
-65°	231.0	264.1	295.2	324.2	351.1	380.6	407.1	430.7	451.4	468.9	483.4
-67.5°	153.7	174.3	193.7	211.7	233.0	254.8	274.4	291.9	307.1	320.1	330.7
-70°	98.7	109.4	119.4	131.2	145.9	159.2	171.3	182.0	191.4	199.3	205.8
-72.5°	59.6	66.4	73.3	81.4	88.8	95.7	101.8	107.2	112.0	116.0	119.4
-75°	30.4	33.8	39.2	44.2	48.8	53.0	56.8	60.1	63.0	65.5	67.6
-77.5°	17.4	19.3	21.2	22.9	24.5	25.9	27.2	28.3	29.3	30.2	30.9
-80°	12.4	12.8	13.3	13.7	14.1	14.5	14.8	15.1	15.3	15.5	15.7
-82.5°	8.3	8.6	9.0	9.3	9.6	9.9	10.1	10.3	10.5	10.6	10.8
-85°	4.9	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	5.9
-87.5°	2.5	2.5	2.6	2.7	2.7	2.8	2.8	2.9	2.9	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: P731201 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-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°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.9
85°	5.9	6.0	6.0	6.0	6.0	6.0	5.9	5.9	5.9	5.8	5.7
82.5°	10.9	10.9	11.0	11.0	11.0	10.9	10.9	10.8	10.6	10.5	10.3
80°	15.8	15.9	16.0	16.0	16.0	15.9	15.8	15.7	15.5	15.3	15.1
77.5°	31.4	31.8	32.0	32.1	32.0	31.8	31.4	30.9	30.2	29.3	28.3
75°	69.1	70.3	71.0	71.2	71.0	70.3	69.1	67.6	65.5	63.0	60.1
72.5°	122.0	123.8	124.9	125.3	124.9	123.8	122.0	119.4	116.0	112.0	107.2
70°	210.9	214.6	216.8	217.5	216.8	214.6	210.9	205.8	199.3	191.4	182.0
67.5°	339.1	345.0	348.6	349.8	348.6	345.0	339.1	330.7	320.1	307.1	291.9
65°	494.6	502.7	507.6	509.2	507.6	502.7	494.6	483.4	468.9	451.4	430.7
62.5°	668.5	678.6	684.6	686.6	684.6	678.6	668.5	654.5	636.6	614.8	589.2
60°	837.7	848.4	854.9	857.0	854.9	848.4	837.7	822.8	803.8	780.6	753.4
57.5°	971.1	980.1	985.5	987.3	985.5	980.1	971.1	958.5	942.4	922.9	900.0
55°	1074.7	1082.4	1087.1	1088.6	1087.1	1082.4	1074.7	1064.0	1050.3	1033.7	1014.2
52.5°	1202.7	1213.9	1220.7	1222.9	1220.7	1213.9	1202.7	1187.2	1167.3	1143.2	1115.0
50°	1381.2	1398.5	1408.8	1412.3	1408.8	1398.5	1381.2	1357.3	1326.7	1289.6	1246.3
47.5°	1551.4	1568.2	1578.3	1581.7	1578.3	1568.2	1551.4	1528.0	1498.2	1462.1	1420.1
45°	1768.9	1794.1	1809.2	1814.3	1809.2	1794.1	1768.9	1733.9	1689.4	1635.6	1575.3
42.5°	2960.6	3132.4	3236.1	3270.7	3236.1	3132.4	2960.6	2722.2	2419.0	2053.5	1784.6
40°	5015.2	5307.5	5484.0	5543.0	5484.0	5307.5	5015.2	4610.0	4095.6	3476.6	2942.0
37.5°	7544.1	7920.5	8148.1	8224.3	8148.1	7920.5	7544.1	7022.9	6362.5	5569.4	4787.1
35°	10357.5	10810.9	11085.4	11177.3	11085.4	10810.9	10357.5	9730.9	8938.7	8011.5	7016.8
32.5°	13529.1	14098.4	14443.5	14559.2	14443.5	14098.4	13529.1	12744.1	11754.4	10649.4	9462.4
30°	17173.4	17901.7	18344.1	18492.5	18344.1	17901.7	17173.4	16171.9	14913.6	13577.2	12102.9
27.5°	21509.8	22490.7	23088.1	23288.7	23088.1	22490.7	21509.8	20165.6	18485.2	16852.6	14991.3
25°	27710.4	29419.8	30464.1	30815.4	30464.1	29419.8	27710.4	25378.2	22770.6	20594.1	18193.3
22.5°	36449.8	39109.3	40740.9	41291.0	40740.9	39109.3	36449.8	32842.5	29067.8	25324.8	21903.0
20°	47853.1	51784.1	54209.8	55030.3	54209.8	51784.1	47853.1	42561.9	37316.6	31593.9	26790.4
17.5°	62259.5	68106.2	71743.6	72979.5	71743.6	68106.2	62259.5	54603.2	47383.1	39636.1	32687.7
15°	77429.4	82867.9	86292.1	87463.5	86292.1	82867.9	77429.4	69649.1	59099.1	49036.8	39636.1
12.5°	89718.6	95070.9	98355.2	99444.2	98355.2	95070.9	89718.6	81913.7	72211.5	59099.1	47383.1
10°	99546.7	104993.4	108482.3	109715.8	108482.3	104993.4	99546.7	91909.8	81913.7	69649.1	54603.2
7.5°	107321.5	113469.3	117192.8	118518.0	117192.8	113469.3	107321.5	99546.7	89718.6	77429.4	62259.5
5°	113469.3	119941.6	124348.9	125899.8	124348.9	119941.6	113469.3	104993.4	95070.9	82867.9	68106.2
2.5°	117192.8	124348.9	128606.4	129829.6	128606.4	124348.9	117192.8	108482.3	98355.2	86292.1	71743.6
0°	118518.0	125899.8	129829.6	130386.4	129829.6	125899.8	118518.0	109715.8	99444.2	87463.5	72979.5
-2.5°	117192.8	124348.9	128606.4	129829.6	128606.4	124348.9	117192.8	108482.3	98355.2	86292.1	71743.6
-5°	113469.3	119941.6	124348.9	125899.8	124348.9	119941.6	113469.3	104993.4	95070.9	82867.9	68106.2
-7.5°	107321.5	113469.3	117192.8	118518.0	117192.8	113469.3	107321.5	99546.7	89718.6	77429.4	62259.5
-10°	99546.7	104993.4	108482.3	109715.8	108482.3	104993.4	99546.7	91909.8	81913.7	69649.1	54603.2
-12.5°	89718.6	95070.9	98355.2	99444.2	98355.2	95070.9	89718.6	81913.7	72211.5	59099.1	47383.1
-15°	77429.4	82867.9	86292.1	87463.5	86292.1	82867.9	77429.4	69649.1	59099.1	49036.8	39636.1
-17.5°	62259.5	68106.2	71743.6	72979.5	71743.6	68106.2	62259.5	54603.2	47383.1	39636.1	32687.7
-20°	47853.1	51784.1	54209.8	55030.3	54209.8	51784.1	47853.1	42561.9	37316.6	31593.9	26790.4



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	36449.8	39109.3	40740.9	41291.0	40740.9	39109.3	36449.8	32842.5	29067.8	25324.8	21903.0
-25°	27710.4	29419.8	30464.1	30815.4	30464.1	29419.8	27710.4	25378.2	22770.6	20594.1	18193.3
-27.5°	21509.8	22490.7	23088.1	23288.7	23088.1	22490.7	21509.8	20165.6	18485.2	16852.6	14991.3
-30°	17173.4	17901.7	18344.1	18492.5	18344.1	17901.7	17173.4	16171.9	14913.6	13577.2	12102.9
-32.5°	13529.1	14098.4	14443.5	14559.2	14443.5	14098.4	13529.1	12744.1	11754.4	10649.4	9462.4
-35°	10357.5	10810.9	11085.4	11177.3	11085.4	10810.9	10357.5	9730.9	8938.7	8011.5	7016.8
-37.5°	7544.1	7920.5	8148.1	8224.3	8148.1	7920.5	7544.1	7022.9	6362.5	5569.4	4787.1
-40°	5015.2	5307.5	5484.0	5543.0	5484.0	5307.5	5015.2	4610.0	4095.6	3476.6	2942.0
-42.5°	2960.6	3132.4	3236.1	3270.7	3236.1	3132.4	2960.6	2722.2	2419.0	2053.5	1784.6
-45°	1768.9	1794.1	1809.2	1814.3	1809.2	1794.1	1768.9	1733.9	1689.4	1635.6	1575.3
-47.5°	1551.4	1568.2	1578.3	1581.7	1578.3	1568.2	1551.4	1528.0	1498.2	1462.1	1420.1
-50°	1381.2	1398.5	1408.8	1412.3	1408.8	1398.5	1381.2	1357.3	1326.7	1289.6	1246.3
-52.5°	1202.7	1213.9	1220.7	1222.9	1220.7	1213.9	1202.7	1187.2	1167.3	1143.2	1115.0
-55°	1074.7	1082.4	1087.1	1088.6	1087.1	1082.4	1074.7	1064.0	1050.3	1033.7	1014.2
-57.5°	971.1	980.1	985.5	987.3	985.5	980.1	971.1	958.5	942.4	922.9	900.0
-60°	837.7	848.4	854.9	857.0	854.9	848.4	837.7	822.8	803.8	780.6	753.4
-62.5°	668.5	678.6	684.6	686.6	684.6	678.6	668.5	654.5	636.6	614.8	589.2
-65°	494.6	502.7	507.6	509.2	507.6	502.7	494.6	483.4	468.9	451.4	430.7
-67.5°	339.1	345.0	348.6	349.8	348.6	345.0	339.1	330.7	320.1	307.1	291.9
-70°	210.9	214.6	216.8	217.5	216.8	214.6	210.9	205.8	199.3	191.4	182.0
-72.5°	122.0	123.8	124.9	125.3	124.9	123.8	122.0	119.4	116.0	112.0	107.2
-75°	69.1	70.3	71.0	71.2	71.0	70.3	69.1	67.6	65.5	63.0	60.1
-77.5°	31.4	31.8	32.0	32.1	32.0	31.8	31.4	30.9	30.2	29.3	28.3
-80°	15.8	15.9	16.0	16.0	16.0	15.9	15.8	15.7	15.5	15.3	15.1
-82.5°	10.9	10.9	11.0	11.0	11.0	10.9	10.9	10.8	10.6	10.5	10.3
-85°	5.9	6.0	6.0	6.0	6.0	6.0	5.9	5.9	5.9	5.8	5.7
-87.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.9
-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°	2.8	2.8	2.7	2.7	2.6	2.5	2.5	2.4	2.3	2.2	2.1
85°	5.6	5.5	5.4	5.3	5.2	5.1	4.9	4.8	4.6	4.4	4.2
82.5°	10.1	9.9	9.6	9.3	9.0	8.6	8.3	7.9	7.5	7.0	6.6
80°	14.8	14.5	14.1	13.7	13.3	12.8	12.4	11.8	11.3	10.7	10.1
77.5°	27.2	25.9	24.5	22.9	21.2	19.3	17.4	15.8	15.1	14.4	13.6
75°	56.8	53.0	48.8	44.2	39.2	33.8	30.4	27.9	25.2	22.4	19.5
72.5°	101.8	95.7	88.8	81.4	73.3	66.4	59.6	52.5	44.9	36.9	30.7
70°	171.3	159.2	145.9	131.2	119.4	109.4	98.7	87.3	75.3	65.0	55.5
67.5°	274.4	254.8	233.0	211.7	193.7	174.3	153.7	131.7	115.5	101.2	86.3
65°	407.1	380.6	351.1	324.2	295.2	264.1	231.0	202.4	176.5	149.5	122.9
62.5°	560.0	527.1	492.6	456.8	418.1	376.5	335.2	296.3	255.3	213.9	182.7
60°	722.3	687.4	647.3	603.4	556.0	505.5	456.8	405.3	351.1	303.8	254.8
57.5°	873.9	840.8	798.4	752.2	702.3	647.3	588.1	525.6	464.9	403.2	340.8
55°	991.9	961.2	925.9	887.3	842.3	784.1	722.3	656.0	584.7	510.4	440.8
52.5°	1084.3	1057.1	1027.2	994.7	951.7	903.5	851.0	780.6	706.8	627.6	544.4
50°	1204.6	1165.5	1122.5	1078.9	1041.0	1000.6	949.4	891.5	822.8	740.3	653.5
47.5°	1367.5	1307.8	1242.3	1186.2	1132.0	1077.9	1031.9	982.6	917.8	848.4	757.2
45°	1523.5	1465.8	1401.4	1324.8	1242.7	1175.1	1109.9	1053.1	999.4	931.1	857.0
42.5°	1707.6	1622.1	1543.0	1469.3	1388.1	1294.8	1204.2	1131.4	1063.8	1004.6	931.1
40°	2421.2	1843.9	1718.4	1610.0	1518.1	1429.0	1326.4	1219.0	1138.7	1063.8	999.4
37.5°	3909.5	3058.3	2381.6	1788.8	1665.3	1547.7	1448.4	1337.0	1219.0	1131.4	1053.1
35°	5898.6	4800.1	3667.5	2747.5	1923.0	1693.2	1557.6	1448.4	1326.4	1204.2	1109.9
32.5°	8141.1	6815.7	5407.7	4112.2	2932.7	2013.3	1693.2	1547.7	1429.0	1294.8	1175.1
30°	10549.7	8980.2	7377.1	5747.0	4261.8	2932.7	1923.0	1665.3	1518.1	1388.1	1242.7
27.5°	13154.7	11223.1	9411.0	7566.2	5747.0	4112.2	2747.5	1788.8	1610.0	1469.3	1324.8
25°	15962.1	13690.9	11481.1	9411.0	7377.1	5407.7	3667.5	2381.6	1718.4	1543.0	1401.4
22.5°	18964.1	16290.3	13690.9	11223.1	8980.2	6815.7	4800.1	3058.3	1843.9	1622.1	1465.8
20°	22346.9	18964.1	15962.1	13154.7	10549.7	8141.1	5898.6	3909.5	2421.2	1707.6	1523.5
17.5°	26790.4	21903.0	18193.3	14991.3	12102.9	9462.4	7016.8	4787.1	2942.0	1784.6	1575.3
15°	31593.9	25324.8	20594.1	16852.6	13577.2	10649.4	8011.5	5569.4	3476.6	2053.5	1635.6
12.5°	37316.6	29067.8	22770.6	18485.2	14913.6	11754.4	8938.7	6362.5	4095.6	2419.0	1689.4
10°	42561.9	32842.5	25378.2	20165.6	16171.9	12744.1	9730.9	7022.9	4610.0	2722.2	1733.9
7.5°	47853.1	36449.8	27710.4	21509.8	17173.4	13529.1	10357.5	7544.1	5015.2	2960.6	1768.9
5°	51784.1	39109.3	29419.8	22490.7	17901.7	14098.4	10810.9	7920.5	5307.5	3132.4	1794.1
2.5°	54209.8	40740.9	30464.1	23088.1	18344.1	14443.5	11085.4	8148.1	5484.0	3236.1	1809.2
0°	55030.3	41291.0	30815.4	23288.7	18492.5	14559.2	11177.3	8224.3	5543.0	3270.7	1814.3
-2.5°	54209.8	40740.9	30464.1	23088.1	18344.1	14443.5	11085.4	8148.1	5484.0	3236.1	1809.2
-5°	51784.1	39109.3	29419.8	22490.7	17901.7	14098.4	10810.9	7920.5	5307.5	3132.4	1794.1
-7.5°	47853.1	36449.8	27710.4	21509.8	17173.4	13529.1	10357.5	7544.1	5015.2	2960.6	1768.9
-10°	42561.9	32842.5	25378.2	20165.6	16171.9	12744.1	9730.9	7022.9	4610.0	2722.2	1733.9
-12.5°	37316.6	29067.8	22770.6	18485.2	14913.6	11754.4	8938.7	6362.5	4095.6	2419.0	1689.4
-15°	31593.9	25324.8	20594.1	16852.6	13577.2	10649.4	8011.5	5569.4	3476.6	2053.5	1635.6
-17.5°	26790.4	21903.0	18193.3	14991.3	12102.9	9462.4	7016.8	4787.1	2942.0	1784.6	1575.3
-20°	22346.9	18964.1	15962.1	13154.7	10549.7	8141.1	5898.6	3909.5	2421.2	1707.6	1523.5



REPORT NUMBER: P731201 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	18964.1	16290.3	13690.9	11223.1	8980.2	6815.7	4800.1	3058.3	1843.9	1622.1	1465.8
-25°	15962.1	13690.9	11481.1	9411.0	7377.1	5407.7	3667.5	2381.6	1718.4	1543.0	1401.4
-27.5°	13154.7	11223.1	9411.0	7566.2	5747.0	4112.2	2747.5	1788.8	1610.0	1469.3	1324.8
-30°	10549.7	8980.2	7377.1	5747.0	4261.8	2932.7	1923.0	1665.3	1518.1	1388.1	1242.7
-32.5°	8141.1	6815.7	5407.7	4112.2	2932.7	2013.3	1693.2	1547.7	1429.0	1294.8	1175.1
-35°	5898.6	4800.1	3667.5	2747.5	1923.0	1693.2	1557.6	1448.4	1326.4	1204.2	1109.9
-37.5°	3909.5	3058.3	2381.6	1788.8	1665.3	1547.7	1448.4	1337.0	1219.0	1131.4	1053.1
-40°	2421.2	1843.9	1718.4	1610.0	1518.1	1429.0	1326.4	1219.0	1138.7	1063.8	999.4
-42.5°	1707.6	1622.1	1543.0	1469.3	1388.1	1294.8	1204.2	1131.4	1063.8	1004.6	931.1
-45°	1523.5	1465.8	1401.4	1324.8	1242.7	1175.1	1109.9	1053.1	999.4	931.1	857.0
-47.5°	1367.5	1307.8	1242.3	1186.2	1132.0	1077.9	1031.9	982.6	917.8	848.4	757.2
-50°	1204.6	1165.5	1122.5	1078.9	1041.0	1000.6	949.4	891.5	822.8	740.3	653.5
-52.5°	1084.3	1057.1	1027.2	994.7	951.7	903.5	851.0	780.6	706.8	627.6	544.4
-55°	991.9	961.2	925.9	887.3	842.3	784.1	722.3	656.0	584.7	510.4	440.8
-57.5°	873.9	840.8	798.4	752.2	702.3	647.3	588.1	525.6	464.9	403.2	340.8
-60°	722.3	687.4	647.3	603.4	556.0	505.5	456.8	405.3	351.1	303.8	254.8
-62.5°	560.0	527.1	492.6	456.8	418.1	376.5	335.2	296.3	255.3	213.9	182.7
-65°	407.1	380.6	351.1	324.2	295.2	264.1	231.0	202.4	176.5	149.5	122.9
-67.5°	274.4	254.8	233.0	211.7	193.7	174.3	153.7	131.7	115.5	101.2	86.3
-70°	171.3	159.2	145.9	131.2	119.4	109.4	98.7	87.3	75.3	65.0	55.5
-72.5°	101.8	95.7	88.8	81.4	73.3	66.4	59.6	52.5	44.9	36.9	30.7
-75°	56.8	53.0	48.8	44.2	39.2	33.8	30.4	27.9	25.2	22.4	19.5
-77.5°	27.2	25.9	24.5	22.9	21.2	19.3	17.4	15.8	15.1	14.4	13.6
-80°	14.8	14.5	14.1	13.7	13.3	12.8	12.4	11.8	11.3	10.7	10.1
-82.5°	10.1	9.9	9.6	9.3	9.0	8.6	8.3	7.9	7.5	7.0	6.6
-85°	5.6	5.5	5.4	5.3	5.2	5.1	4.9	4.8	4.6	4.4	4.2
-87.5°	2.8	2.8	2.7	2.7	2.6	2.5	2.5	2.4	2.3	2.2	2.1
-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: P731201 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-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°	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.1	1.0	0.9
85°	4.1	3.9	3.6	3.4	3.2	3.0	2.8	2.5	2.3	2.0	1.8
82.5°	6.1	5.8	5.5	5.2	4.8	4.5	4.1	3.8	3.4	3.1	2.7
80°	9.5	8.8	8.1	7.4	6.7	6.0	5.5	5.1	4.6	4.1	3.6
77.5°	12.8	12.0	11.1	10.3	9.4	8.4	7.5	6.5	5.7	5.1	4.5
75°	16.5	15.2	14.1	13.1	12.0	10.9	9.7	8.6	7.4	6.2	5.4
72.5°	27.1	23.4	19.5	15.9	14.6	13.3	12.0	10.6	9.2	7.8	6.4
70°	45.5	35.2	29.0	24.5	19.8	15.7	14.2	12.6	11.0	9.4	7.8
67.5°	70.9	59.3	47.3	34.9	28.0	22.6	17.1	14.6	12.8	11.0	9.2
65°	105.6	87.7	69.8	56.0	41.9	30.2	24.1	17.9	14.6	12.6	10.6
62.5°	150.3	120.2	99.9	78.9	61.3	45.4	30.9	24.1	17.1	14.2	12.0
60°	208.0	171.3	133.4	107.2	83.8	63.0	45.4	30.2	22.6	15.7	13.3
57.5°	285.5	228.3	184.0	141.9	109.7	83.8	61.3	41.9	28.0	19.8	14.6
55°	368.9	304.0	240.6	188.3	141.9	107.2	78.9	56.0	34.9	24.5	15.9
52.5°	463.6	384.0	310.2	240.6	184.0	133.4	99.9	69.8	47.3	29.0	19.5
50°	561.6	471.2	384.0	304.0	228.3	171.3	120.2	87.7	59.3	35.2	23.4
47.5°	662.2	561.6	463.6	368.9	285.5	208.0	150.3	105.6	70.9	45.5	27.1
45°	757.2	653.5	544.4	440.8	340.8	254.8	182.7	122.9	86.3	55.5	30.7
42.5°	848.4	740.3	627.6	510.4	403.2	303.8	213.9	149.5	101.2	65.0	36.9
40°	917.8	822.8	706.8	584.7	464.9	351.1	255.3	176.5	115.5	75.3	44.9
37.5°	982.6	891.5	780.6	656.0	525.6	405.3	296.3	202.4	131.7	87.3	52.5
35°	1031.9	949.4	851.0	722.3	588.1	456.8	335.2	231.0	153.7	98.7	59.6
32.5°	1077.9	1000.6	903.5	784.1	647.3	505.5	376.5	264.1	174.3	109.4	66.4
30°	1132.0	1041.0	951.7	842.3	702.3	556.0	418.1	295.2	193.7	119.4	73.3
27.5°	1186.2	1078.9	994.7	887.3	752.2	603.4	456.8	324.2	211.7	131.2	81.4
25°	1242.3	1122.5	1027.2	925.9	798.4	647.3	492.6	351.1	233.0	145.9	88.8
22.5°	1307.8	1165.5	1057.1	961.2	840.8	687.4	527.1	380.6	254.8	159.2	95.7
20°	1367.5	1204.6	1084.3	991.9	873.9	722.3	560.0	407.1	274.4	171.3	101.8
17.5°	1420.1	1246.3	1115.0	1014.2	900.0	753.4	589.2	430.7	291.9	182.0	107.2
15°	1462.1	1289.6	1143.2	1033.7	922.9	780.6	614.8	451.4	307.1	191.4	112.0
12.5°	1498.2	1326.7	1167.3	1050.3	942.4	803.8	636.6	468.9	320.1	199.3	116.0
10°	1528.0	1357.3	1187.2	1064.0	958.5	822.8	654.5	483.4	330.7	205.8	119.4
7.5°	1551.4	1381.2	1202.7	1074.7	971.1	837.7	668.5	494.6	339.1	210.9	122.0
5°	1568.2	1398.5	1213.9	1082.4	980.1	848.4	678.6	502.7	345.0	214.6	123.8
2.5°	1578.3	1408.8	1220.7	1087.1	985.5	854.9	684.6	507.6	348.6	216.8	124.9
0°	1581.7	1412.3	1222.9	1088.6	987.3	857.0	686.6	509.2	349.8	217.5	125.3
-2.5°	1578.3	1408.8	1220.7	1087.1	985.5	854.9	684.6	507.6	348.6	216.8	124.9
-5°	1568.2	1398.5	1213.9	1082.4	980.1	848.4	678.6	502.7	345.0	214.6	123.8
-7.5°	1551.4	1381.2	1202.7	1074.7	971.1	837.7	668.5	494.6	339.1	210.9	122.0
-10°	1528.0	1357.3	1187.2	1064.0	958.5	822.8	654.5	483.4	330.7	205.8	119.4
-12.5°	1498.2	1326.7	1167.3	1050.3	942.4	803.8	636.6	468.9	320.1	199.3	116.0
-15°	1462.1	1289.6	1143.2	1033.7	922.9	780.6	614.8	451.4	307.1	191.4	112.0
-17.5°	1420.1	1246.3	1115.0	1014.2	900.0	753.4	589.2	430.7	291.9	182.0	107.2
-20°	1367.5	1204.6	1084.3	991.9	873.9	722.3	560.0	407.1	274.4	171.3	101.8



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1307.8	1165.5	1057.1	961.2	840.8	687.4	527.1	380.6	254.8	159.2	95.7
-25°	1242.3	1122.5	1027.2	925.9	798.4	647.3	492.6	351.1	233.0	145.9	88.8
-27.5°	1186.2	1078.9	994.7	887.3	752.2	603.4	456.8	324.2	211.7	131.2	81.4
-30°	1132.0	1041.0	951.7	842.3	702.3	556.0	418.1	295.2	193.7	119.4	73.3
-32.5°	1077.9	1000.6	903.5	784.1	647.3	505.5	376.5	264.1	174.3	109.4	66.4
-35°	1031.9	949.4	851.0	722.3	588.1	456.8	335.2	231.0	153.7	98.7	59.6
-37.5°	982.6	891.5	780.6	656.0	525.6	405.3	296.3	202.4	131.7	87.3	52.5
-40°	917.8	822.8	706.8	584.7	464.9	351.1	255.3	176.5	115.5	75.3	44.9
-42.5°	848.4	740.3	627.6	510.4	403.2	303.8	213.9	149.5	101.2	65.0	36.9
-45°	757.2	653.5	544.4	440.8	340.8	254.8	182.7	122.9	86.3	55.5	30.7
-47.5°	662.2	561.6	463.6	368.9	285.5	208.0	150.3	105.6	70.9	45.5	27.1
-50°	561.6	471.2	384.0	304.0	228.3	171.3	120.2	87.7	59.3	35.2	23.4
-52.5°	463.6	384.0	310.2	240.6	184.0	133.4	99.9	69.8	47.3	29.0	19.5
-55°	368.9	304.0	240.6	188.3	141.9	107.2	78.9	56.0	34.9	24.5	15.9
-57.5°	285.5	228.3	184.0	141.9	109.7	83.8	61.3	41.9	28.0	19.8	14.6
-60°	208.0	171.3	133.4	107.2	83.8	63.0	45.4	30.2	22.6	15.7	13.3
-62.5°	150.3	120.2	99.9	78.9	61.3	45.4	30.9	24.1	17.1	14.2	12.0
-65°	105.6	87.7	69.8	56.0	41.9	30.2	24.1	17.9	14.6	12.6	10.6
-67.5°	70.9	59.3	47.3	34.9	28.0	22.6	17.1	14.6	12.8	11.0	9.2
-70°	45.5	35.2	29.0	24.5	19.8	15.7	14.2	12.6	11.0	9.4	7.8
-72.5°	27.1	23.4	19.5	15.9	14.6	13.3	12.0	10.6	9.2	7.8	6.4
-75°	16.5	15.2	14.1	13.1	12.0	10.9	9.7	8.6	7.4	6.2	5.4
-77.5°	12.8	12.0	11.1	10.3	9.4	8.4	7.5	6.5	5.7	5.1	4.5
-80°	9.5	8.8	8.1	7.4	6.7	6.0	5.5	5.1	4.6	4.1	3.6
-82.5°	6.1	5.8	5.5	5.2	4.8	4.5	4.1	3.8	3.4	3.1	2.7
-85°	4.1	3.9	3.6	3.4	3.2	3.0	2.8	2.5	2.3	2.0	1.8
-87.5°	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.1	1.0	0.9
-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°	0.8	0.6	0.5	0.4	0.3	0.1	0.0
85°	1.6	1.3	1.0	0.8	0.5	0.3	0.0
82.5°	2.3	1.9	1.6	1.2	0.8	0.4	0.0
80°	3.1	2.6	2.1	1.6	1.0	0.5	0.0
77.5°	3.9	3.2	2.6	1.9	1.3	0.6	0.0
75°	4.6	3.9	3.1	2.3	1.6	0.8	0.0
72.5°	5.4	4.5	3.6	2.7	1.8	0.9	0.0
70°	6.2	5.1	4.1	3.1	2.0	1.0	0.0
67.5°	7.4	5.7	4.6	3.4	2.3	1.1	0.0
65°	8.6	6.5	5.1	3.8	2.5	1.3	0.0
62.5°	9.7	7.5	5.5	4.1	2.8	1.4	0.0
60°	10.9	8.4	6.0	4.5	3.0	1.5	0.0
57.5°	12.0	9.4	6.7	4.8	3.2	1.6	0.0
55°	13.1	10.3	7.4	5.2	3.4	1.7	0.0
52.5°	14.1	11.1	8.1	5.5	3.6	1.8	0.0
50°	15.2	12.0	8.8	5.8	3.9	1.9	0.0
47.5°	16.5	12.8	9.5	6.1	4.1	2.0	0.0
45°	19.5	13.6	10.1	6.6	4.2	2.1	0.0
42.5°	22.4	14.4	10.7	7.0	4.4	2.2	0.0
40°	25.2	15.1	11.3	7.5	4.6	2.3	0.0
37.5°	27.9	15.8	11.8	7.9	4.8	2.4	0.0
35°	30.4	17.4	12.4	8.3	4.9	2.5	0.0
32.5°	33.8	19.3	12.8	8.6	5.1	2.5	0.0
30°	39.2	21.2	13.3	9.0	5.2	2.6	0.0
27.5°	44.2	22.9	13.7	9.3	5.3	2.7	0.0
25°	48.8	24.5	14.1	9.6	5.4	2.7	0.0
22.5°	53.0	25.9	14.5	9.9	5.5	2.8	0.0
20°	56.8	27.2	14.8	10.1	5.6	2.8	0.0
17.5°	60.1	28.3	15.1	10.3	5.7	2.9	0.0
15°	63.0	29.3	15.3	10.5	5.8	2.9	0.0
12.5°	65.5	30.2	15.5	10.6	5.9	2.9	0.0
10°	67.6	30.9	15.7	10.8	5.9	3.0	0.0
7.5°	69.1	31.4	15.8	10.9	5.9	3.0	0.0
5°	70.3	31.8	15.9	10.9	6.0	3.0	0.0
2.5°	71.0	32.0	16.0	11.0	6.0	3.0	0.0
0°	71.2	32.1	16.0	11.0	6.0	3.0	0.0
-2.5°	71.0	32.0	16.0	11.0	6.0	3.0	0.0
-5°	70.3	31.8	15.9	10.9	6.0	3.0	0.0
-7.5°	69.1	31.4	15.8	10.9	5.9	3.0	0.0
-10°	67.6	30.9	15.7	10.8	5.9	3.0	0.0
-12.5°	65.5	30.2	15.5	10.6	5.9	2.9	0.0
-15°	63.0	29.3	15.3	10.5	5.8	2.9	0.0
-17.5°	60.1	28.3	15.1	10.3	5.7	2.9	0.0
-20°	56.8	27.2	14.8	10.1	5.6	2.8	0.0



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	53.0	25.9	14.5	9.9	5.5	2.8	0.0
-25°	48.8	24.5	14.1	9.6	5.4	2.7	0.0
-27.5°	44.2	22.9	13.7	9.3	5.3	2.7	0.0
-30°	39.2	21.2	13.3	9.0	5.2	2.6	0.0
-32.5°	33.8	19.3	12.8	8.6	5.1	2.5	0.0
-35°	30.4	17.4	12.4	8.3	4.9	2.5	0.0
-37.5°	27.9	15.8	11.8	7.9	4.8	2.4	0.0
-40°	25.2	15.1	11.3	7.5	4.6	2.3	0.0
-42.5°	22.4	14.4	10.7	7.0	4.4	2.2	0.0
-45°	19.5	13.6	10.1	6.6	4.2	2.1	0.0
-47.5°	16.5	12.8	9.5	6.1	4.1	2.0	0.0
-50°	15.2	12.0	8.8	5.8	3.9	1.9	0.0
-52.5°	14.1	11.1	8.1	5.5	3.6	1.8	0.0
-55°	13.1	10.3	7.4	5.2	3.4	1.7	0.0
-57.5°	12.0	9.4	6.7	4.8	3.2	1.6	0.0
-60°	10.9	8.4	6.0	4.5	3.0	1.5	0.0
-62.5°	9.7	7.5	5.5	4.1	2.8	1.4	0.0
-65°	8.6	6.5	5.1	3.8	2.5	1.3	0.0
-67.5°	7.4	5.7	4.6	3.4	2.3	1.1	0.0
-70°	6.2	5.1	4.1	3.1	2.0	1.0	0.0
-72.5°	5.4	4.5	3.6	2.7	1.8	0.9	0.0
-75°	4.6	3.9	3.1	2.3	1.6	0.8	0.0
-77.5°	3.9	3.2	2.6	1.9	1.3	0.6	0.0
-80°	3.1	2.6	2.1	1.6	1.0	0.5	0.0
-82.5°	2.3	1.9	1.6	1.2	0.8	0.4	0.0
-85°	1.6	1.3	1.0	0.8	0.5	0.3	0.0
-87.5°	0.8	0.6	0.5	0.4	0.3	0.1	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

