

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: P731243 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-80-4S-HEG**

Issue Date: 11/16/2023

Test Information

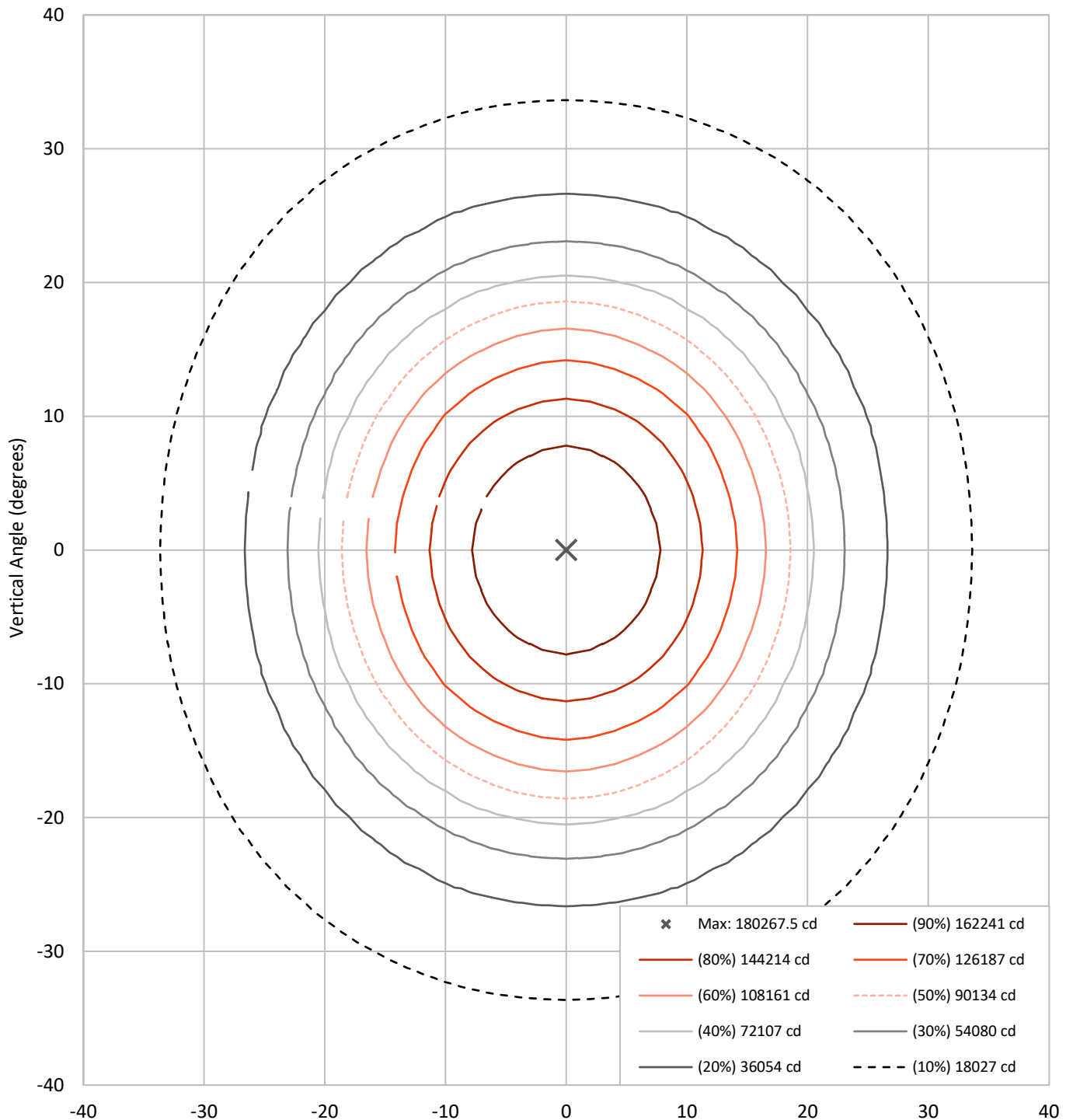
Test Method: LM-79-08
Report Number: P731243 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-08-0530N-40-80-4S-HEG
Description: EPHEBUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 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:	83249.2 lumens	Max Intensity:	180267.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	148.7 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:	43338.8 lumens	Field Lumens:	72801.9 lumens
Beam Efficiency:	52.1%	Field Efficiency:	87.5%
Input Watts (W):	559.9		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-HEG

Iso-Candela Plot





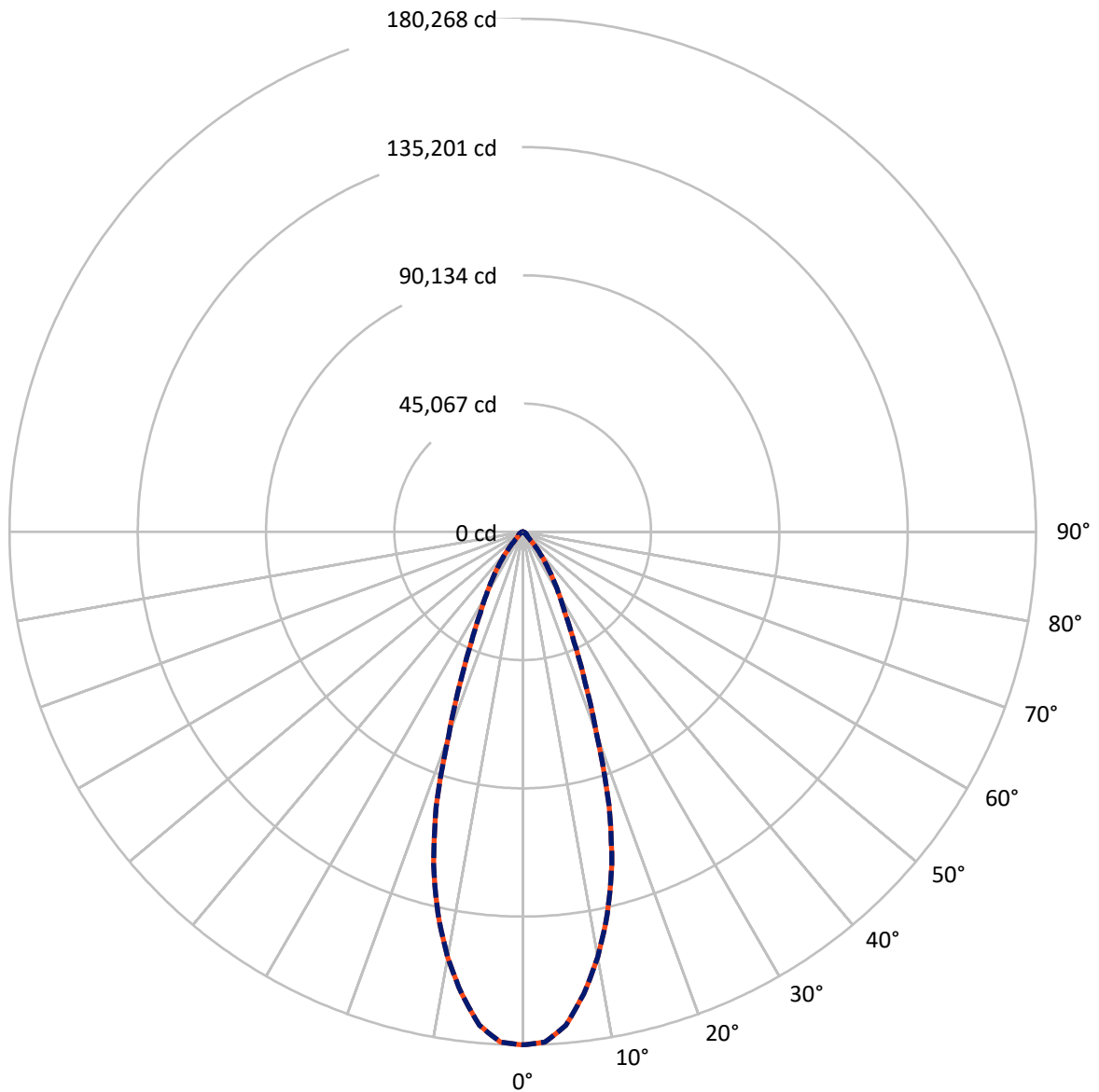
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Lumen Table

90																			
80	0.1	0.6		2.5		5.9		7.7		5.9		2.5		0.6	0.1				
70																			
60	0.3	0.4	1.5	4.2	8.7	14.1	18.8	21.5	21.5	18.8	14.1	8.7	4.2	1.5	0.4	0.3			
50		1.1	4.9	13.4	24.6	34.6	41.9	46.0	46.0	41.9	34.6	24.6	13.4	4.9	1.1				
40	0.8	2.6	10.9	25.0	38.8	53.8	77.3	102.0	102.0	77.3	53.8	38.8	25.0	10.9	2.6	0.8			
30		4.6	17.4	33.6	58.2	156.6	331.4	459.6	459.6	331.4	156.6	58.2	33.6	17.4	4.6				
20	1.7	6.8	22.1	42.2	142.6	445.5	871.2	1295.5	1295.5	871.2	445.5	142.6	42.2	22.1	6.8	1.7			
10		8.5	25.1	57.3	283.8	820.3	2031.6	3335.0	3335.0	2031.6	820.3	283.8	57.3	25.1	8.5				
0	2.1	9.4	26.7	73.8	382.0	1186.2	3240.7	4881.6	4881.6	3240.7	1186.2	382.0	73.8	26.7	9.4	2.1			
-10		9.4	26.7	73.8	382.0	1186.2	3240.7	4881.6	4881.6	3240.7	1186.2	382.0	73.8	26.7	9.4				
-20	1.7	8.5	25.1	57.3	283.8	820.3	2031.6	3335.0	3335.0	2031.6	820.3	283.8	57.3	25.1	8.5	1.7			
-30		6.8	22.1	42.2	142.6	445.5	871.2	1295.5	1295.5	871.2	445.5	142.6	42.2	22.1	6.8				
-40	0.8	4.6	17.4	33.6	58.2	156.6	331.4	459.6	459.6	331.4	156.6	58.2	33.6	17.4	4.6	0.8			
-50		2.6	10.9	25.0	38.8	53.8	77.3	102.0	102.0	77.3	53.8	38.8	25.0	10.9	2.6				
-60	0.3	1.1	4.9	13.4	24.6	34.6	41.9	46.0	46.0	41.9	34.6	24.6	13.4	4.9	1.1	0.3			
-70		0.4	1.5	4.2	8.7	14.1	18.8	21.5	21.5	18.8	14.1	8.7	4.2	1.5	0.4				
-80	0.1	0.6		2.5		5.9		7.7		5.9		2.5		0.6	0.1				
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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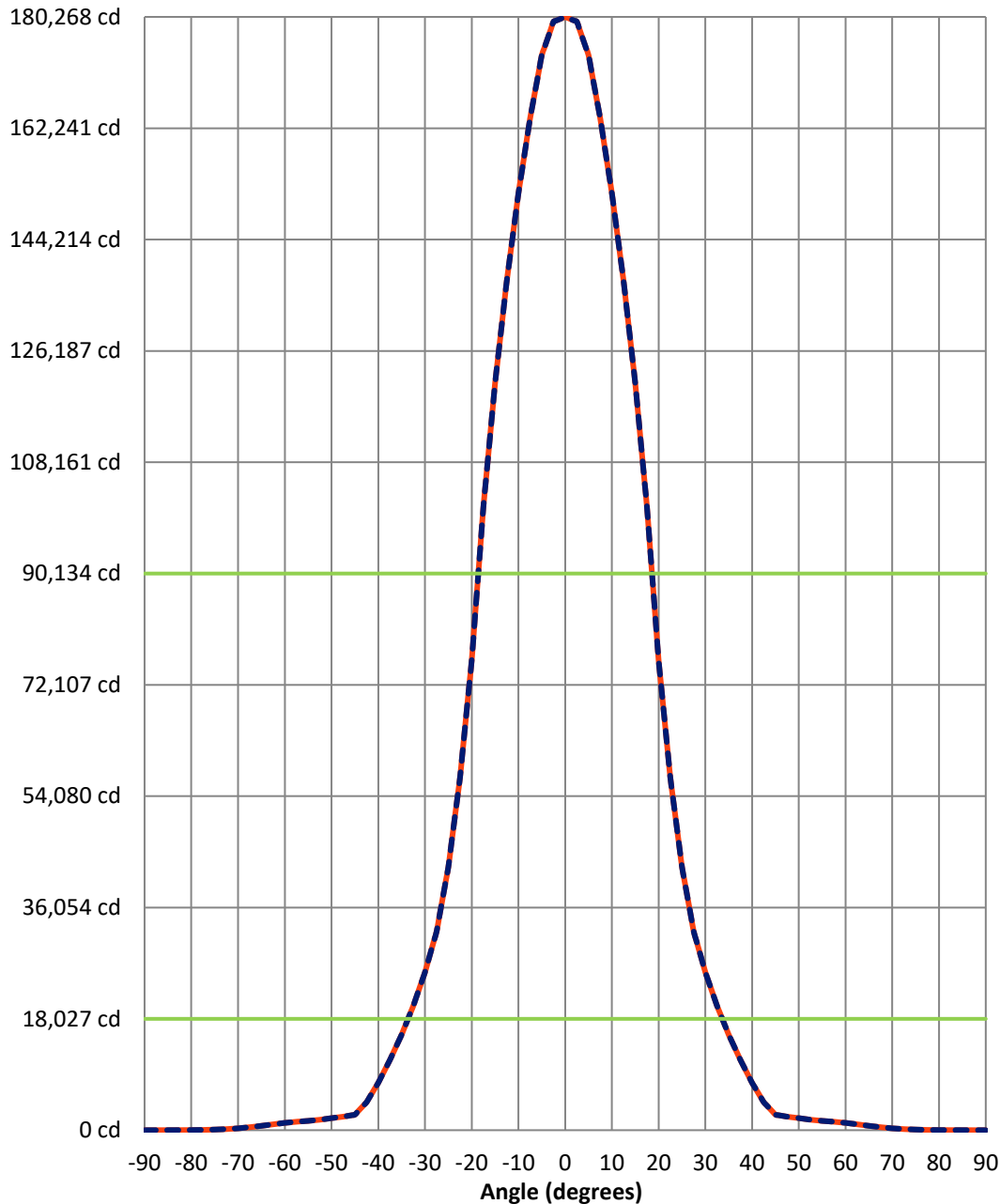
Luminous Intensity Polar Plot



— 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: 43338.8
 Efficiency: 52.1%

Field:
 H Angle: 67.2°
 V Angle: 67.2°
 Lumens: 72801.9
 Efficiency: 87.5%

Spill:
 Lumens: 10447.3
 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	0.2	0.4	0.5	0.7	0.9	1.1	1.3	1.4	1.6	1.8
85°	0.0	0.4	0.7	1.1	1.5	1.8	2.2	2.5	2.9	3.2	3.5
82.5°	0.0	0.5	1.1	1.6	2.2	2.7	3.3	3.8	4.3	4.8	5.3
80°	0.0	0.7	1.5	2.2	2.9	3.6	4.3	5.0	5.7	6.3	7.0
77.5°	0.0	0.9	1.8	2.7	3.6	4.5	5.4	6.2	7.1	7.9	9.0
75°	0.0	1.1	2.2	3.3	4.3	5.4	6.4	7.4	8.5	10.2	11.8
72.5°	0.0	1.3	2.5	3.8	5.0	6.2	7.4	8.8	10.8	12.7	14.7
70°	0.0	1.4	2.9	4.3	5.7	7.1	8.5	10.8	13.0	15.3	17.5
67.5°	0.0	1.6	3.2	4.8	6.3	7.9	10.2	12.7	15.3	17.8	20.3
65°	0.0	1.8	3.5	5.3	7.0	9.0	11.8	14.7	17.5	20.3	24.8
62.5°	0.0	1.9	3.9	5.8	7.6	10.3	13.4	16.5	19.6	23.8	33.3
60°	0.0	2.1	4.2	6.2	8.3	11.6	15.0	18.4	21.8	31.3	41.6
57.5°	0.0	2.3	4.5	6.7	9.3	12.9	16.6	20.2	27.4	38.7	57.8
55°	0.0	2.4	4.8	7.1	10.3	14.2	18.1	22.0	33.8	48.2	77.4
52.5°	0.0	2.6	5.1	7.6	11.2	15.4	19.6	27.0	40.0	65.3	96.4
50°	0.0	2.7	5.4	8.0	12.2	16.6	21.0	32.3	48.6	82.0	121.2
47.5°	0.0	2.8	5.6	8.5	13.1	17.7	22.8	37.4	62.9	98.0	146.0
45°	0.0	3.0	5.9	9.1	14.0	18.8	27.0	42.3	76.7	119.3	169.8
42.5°	0.0	3.1	6.1	9.7	14.8	19.9	31.0	51.0	89.9	139.9	206.6
40°	0.0	3.2	6.4	10.3	15.6	20.9	34.9	62.0	104.1	159.6	244.1
37.5°	0.0	3.3	6.6	10.9	16.4	21.9	38.5	72.5	120.7	182.1	279.8
35°	0.0	3.4	6.8	11.4	17.1	24.1	42.0	82.4	136.4	212.4	319.3
32.5°	0.0	3.5	7.0	11.9	17.8	26.8	46.6	91.7	151.2	241.0	365.2
30°	0.0	3.6	7.2	12.4	18.4	29.3	54.1	101.2	165.1	267.8	408.2
27.5°	0.0	3.7	7.4	12.8	19.0	31.6	61.0	112.5	181.4	292.7	448.3
25°	0.0	3.8	7.5	13.3	19.6	33.8	67.4	122.8	201.6	322.2	485.6
22.5°	0.0	3.9	7.7	13.6	20.0	35.8	73.2	132.2	220.1	352.3	526.2
20°	0.0	3.9	7.8	13.9	20.5	37.5	78.4	140.7	236.8	379.5	562.9
17.5°	0.0	4.0	7.9	14.2	20.9	39.1	83.0	148.2	251.6	403.6	595.6
15°	0.0	4.1	8.0	14.5	21.2	40.5	87.1	154.8	264.5	424.7	624.1
12.5°	0.0	4.1	8.1	14.7	21.5	41.6	90.5	160.4	275.5	442.6	648.3
10°	0.0	4.1	8.2	14.9	21.8	42.6	93.4	165.0	284.6	457.3	668.3
7.5°	0.0	4.2	8.2	15.0	22.0	43.3	95.6	168.6	291.6	468.8	683.9
5°	0.0	4.2	8.3	15.1	22.1	43.9	97.1	171.1	296.7	477.1	695.0
2.5°	0.0	4.2	8.3	15.2	22.2	44.2	98.1	172.7	299.7	482.0	701.8
0°	0.0	4.2	8.3	15.2	22.2	44.3	98.4	173.2	300.7	483.7	704.0
-2.5°	0.0	4.2	8.3	15.2	22.2	44.2	98.1	172.7	299.7	482.0	701.8
-5°	0.0	4.2	8.3	15.1	22.1	43.9	97.1	171.1	296.7	477.1	695.0
-7.5°	0.0	4.2	8.2	15.0	22.0	43.3	95.6	168.6	291.6	468.8	683.9
-10°	0.0	4.1	8.2	14.9	21.8	42.6	93.4	165.0	284.6	457.3	668.3
-12.5°	0.0	4.1	8.1	14.7	21.5	41.6	90.5	160.4	275.5	442.6	648.3
-15°	0.0	4.1	8.0	14.5	21.2	40.5	87.1	154.8	264.5	424.7	624.1
-17.5°	0.0	4.0	7.9	14.2	20.9	39.1	83.0	148.2	251.6	403.6	595.6
-20°	0.0	3.9	7.8	13.9	20.5	37.5	78.4	140.7	236.8	379.5	562.9



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 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	3.9	7.7	13.6	20.0	35.8	73.2	132.2	220.1	352.3	526.2
-25°	0.0	3.8	7.5	13.3	19.6	33.8	67.4	122.8	201.6	322.2	485.6
-27.5°	0.0	3.7	7.4	12.8	19.0	31.6	61.0	112.5	181.4	292.7	448.3
-30°	0.0	3.6	7.2	12.4	18.4	29.3	54.1	101.2	165.1	267.8	408.2
-32.5°	0.0	3.5	7.0	11.9	17.8	26.8	46.6	91.7	151.2	241.0	365.2
-35°	0.0	3.4	6.8	11.4	17.1	24.1	42.0	82.4	136.4	212.4	319.3
-37.5°	0.0	3.3	6.6	10.9	16.4	21.9	38.5	72.5	120.7	182.1	279.8
-40°	0.0	3.2	6.4	10.3	15.6	20.9	34.9	62.0	104.1	159.6	244.1
-42.5°	0.0	3.1	6.1	9.7	14.8	19.9	31.0	51.0	89.9	139.9	206.6
-45°	0.0	3.0	5.9	9.1	14.0	18.8	27.0	42.3	76.7	119.3	169.8
-47.5°	0.0	2.8	5.6	8.5	13.1	17.7	22.8	37.4	62.9	98.0	146.0
-50°	0.0	2.7	5.4	8.0	12.2	16.6	21.0	32.3	48.6	82.0	121.2
-52.5°	0.0	2.6	5.1	7.6	11.2	15.4	19.6	27.0	40.0	65.3	96.4
-55°	0.0	2.4	4.8	7.1	10.3	14.2	18.1	22.0	33.8	48.2	77.4
-57.5°	0.0	2.3	4.5	6.7	9.3	12.9	16.6	20.2	27.4	38.7	57.8
-60°	0.0	2.1	4.2	6.2	8.3	11.6	15.0	18.4	21.8	31.3	41.6
-62.5°	0.0	1.9	3.9	5.8	7.6	10.3	13.4	16.5	19.6	23.8	33.3
-65°	0.0	1.8	3.5	5.3	7.0	9.0	11.8	14.7	17.5	20.3	24.8
-67.5°	0.0	1.6	3.2	4.8	6.3	7.9	10.2	12.7	15.3	17.8	20.3
-70°	0.0	1.4	2.9	4.3	5.7	7.1	8.5	10.8	13.0	15.3	17.5
-72.5°	0.0	1.3	2.5	3.8	5.0	6.2	7.4	8.8	10.8	12.7	14.7
-75°	0.0	1.1	2.2	3.3	4.3	5.4	6.4	7.4	8.5	10.2	11.8
-77.5°	0.0	0.9	1.8	2.7	3.6	4.5	5.4	6.2	7.1	7.9	9.0
-80°	0.0	0.7	1.5	2.2	2.9	3.6	4.3	5.0	5.7	6.3	7.0
-82.5°	0.0	0.5	1.1	1.6	2.2	2.7	3.3	3.8	4.3	4.8	5.3
-85°	0.0	0.4	0.7	1.1	1.5	1.8	2.2	2.5	2.9	3.2	3.5
-87.5°	0.0	0.2	0.4	0.5	0.7	0.9	1.1	1.3	1.4	1.6	1.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731243 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-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°	1.9	2.1	2.3	2.4	2.6	2.7	2.8	3.0	3.1	3.2	3.3
85°	3.9	4.2	4.5	4.8	5.1	5.4	5.6	5.9	6.1	6.4	6.6
82.5°	5.8	6.2	6.7	7.1	7.6	8.0	8.5	9.1	9.7	10.3	10.9
80°	7.6	8.3	9.3	10.3	11.2	12.2	13.1	14.0	14.8	15.6	16.4
77.5°	10.3	11.6	12.9	14.2	15.4	16.6	17.7	18.8	19.9	20.9	21.9
75°	13.4	15.0	16.6	18.1	19.6	21.0	22.8	27.0	31.0	34.9	38.5
72.5°	16.5	18.4	20.2	22.0	27.0	32.3	37.4	42.3	51.0	62.0	72.5
70°	19.6	21.8	27.4	33.8	40.0	48.6	62.9	76.7	89.9	104.1	120.7
67.5°	23.8	31.3	38.7	48.2	65.3	82.0	98.0	119.3	139.9	159.6	182.1
65°	33.3	41.6	57.8	77.4	96.4	121.2	146.0	169.8	206.6	244.1	279.8
62.5°	42.6	62.7	84.7	109.1	138.1	166.2	207.7	252.6	295.8	353.0	409.7
60°	62.7	87.1	115.9	148.2	184.5	236.8	287.6	352.3	420.1	485.6	560.4
57.5°	84.7	115.9	151.6	196.1	254.4	315.7	394.7	471.2	557.5	642.8	726.7
55°	109.1	148.2	196.1	260.3	332.7	420.4	510.1	609.5	705.7	808.5	906.9
52.5°	138.1	184.5	254.4	332.7	428.9	530.9	641.0	752.7	867.7	977.3	1079.3
50°	166.2	236.8	315.7	420.4	530.9	651.5	776.4	903.6	1023.6	1137.7	1232.5
47.5°	207.7	287.6	394.7	510.1	641.0	776.4	915.6	1047.0	1173.0	1269.0	1358.6
45°	252.6	352.3	471.2	609.5	752.7	903.6	1047.0	1184.9	1287.3	1381.7	1455.9
42.5°	295.8	420.1	557.5	705.7	867.7	1023.6	1173.0	1287.3	1388.9	1470.7	1564.2
40°	353.0	485.6	642.8	808.5	977.3	1137.7	1269.0	1381.7	1470.7	1574.2	1685.2
37.5°	409.7	560.4	726.7	906.9	1079.3	1232.5	1358.6	1455.9	1564.2	1685.2	1848.5
35°	463.6	631.6	813.1	998.7	1176.6	1312.6	1426.7	1534.4	1664.9	1833.8	2002.5
32.5°	520.7	698.9	895.0	1084.1	1249.2	1383.4	1490.2	1624.6	1790.1	1975.7	2139.8
30°	578.1	768.7	971.0	1164.5	1315.8	1439.2	1565.1	1718.1	1919.1	2098.8	2302.3
27.5°	631.6	834.3	1040.0	1226.8	1375.2	1491.6	1639.9	1831.6	2031.5	2225.9	2473.0
25°	681.0	895.0	1103.9	1280.1	1420.2	1551.9	1717.5	1937.5	2133.2	2375.7	3292.7
22.5°	728.7	950.5	1162.5	1329.0	1461.5	1611.3	1808.1	2026.6	2242.6	2549.2	4228.2
20°	774.2	998.7	1208.3	1371.4	1499.0	1665.3	1890.6	2106.3	2360.8	3347.4	5405.1
17.5°	814.7	1041.7	1244.4	1402.2	1541.5	1723.1	1963.4	2178.0	2467.2	4067.5	6618.5
15°	850.0	1079.3	1276.0	1429.1	1580.5	1783.0	2021.5	2261.3	2839.0	4806.5	7700.1
12.5°	880.1	1111.3	1303.0	1452.0	1613.8	1834.2	2071.3	2335.7	3344.4	5662.5	8796.6
10°	904.9	1137.7	1325.2	1471.0	1641.3	1876.5	2112.5	2397.2	3763.6	6373.7	9709.6
7.5°	924.3	1158.3	1342.5	1485.8	1662.8	1909.6	2144.9	2445.5	4093.2	6933.9	10430.2
5°	938.2	1173.0	1355.0	1496.5	1678.3	1933.5	2168.1	2480.3	4330.7	7337.9	10950.7
2.5°	946.5	1181.9	1362.5	1502.9	1687.6	1947.8	2182.1	2501.3	4474.0	7582.0	11265.4
0°	949.3	1184.9	1365.0	1505.0	1690.7	1952.6	2186.8	2508.3	4521.9	7663.6	11370.7
-2.5°	946.5	1181.9	1362.5	1502.9	1687.6	1947.8	2182.1	2501.3	4474.0	7582.0	11265.4
-5°	938.2	1173.0	1355.0	1496.5	1678.3	1933.5	2168.1	2480.3	4330.7	7337.9	10950.7
-7.5°	924.3	1158.3	1342.5	1485.8	1662.8	1909.6	2144.9	2445.5	4093.2	6933.9	10430.2
-10°	904.9	1137.7	1325.2	1471.0	1641.3	1876.5	2112.5	2397.2	3763.6	6373.7	9709.6
-12.5°	880.1	1111.3	1303.0	1452.0	1613.8	1834.2	2071.3	2335.7	3344.4	5662.5	8796.6
-15°	850.0	1079.3	1276.0	1429.1	1580.5	1783.0	2021.5	2261.3	2839.0	4806.5	7700.1
-17.5°	814.7	1041.7	1244.4	1402.2	1541.5	1723.1	1963.4	2178.0	2467.2	4067.5	6618.5
-20°	774.2	998.7	1208.3	1371.4	1499.0	1665.3	1890.6	2106.3	2360.8	3347.4	5405.1



REPORT NUMBER: P731243 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	728.7	950.5	1162.5	1329.0	1461.5	1611.3	1808.1	2026.6	2242.6	2549.2	4228.2
-25°	681.0	895.0	1103.9	1280.1	1420.2	1551.9	1717.5	1937.5	2133.2	2375.7	3292.7
-27.5°	631.6	834.3	1040.0	1226.8	1375.2	1491.6	1639.9	1831.6	2031.5	2225.9	2473.0
-30°	578.1	768.7	971.0	1164.5	1315.8	1439.2	1565.1	1718.1	1919.1	2098.8	2302.3
-32.5°	520.7	698.9	895.0	1084.1	1249.2	1383.4	1490.2	1624.6	1790.1	1975.7	2139.8
-35°	463.6	631.6	813.1	998.7	1176.6	1312.6	1426.7	1534.4	1664.9	1833.8	2002.5
-37.5°	409.7	560.4	726.7	906.9	1079.3	1232.5	1358.6	1455.9	1564.2	1685.2	1848.5
-40°	353.0	485.6	642.8	808.5	977.3	1137.7	1269.0	1381.7	1470.7	1574.2	1685.2
-42.5°	295.8	420.1	557.5	705.7	867.7	1023.6	1173.0	1287.3	1388.9	1470.7	1564.2
-45°	252.6	352.3	471.2	609.5	752.7	903.6	1047.0	1184.9	1287.3	1381.7	1455.9
-47.5°	207.7	287.6	394.7	510.1	641.0	776.4	915.6	1047.0	1173.0	1269.0	1358.6
-50°	166.2	236.8	315.7	420.4	530.9	651.5	776.4	903.6	1023.6	1137.7	1232.5
-52.5°	138.1	184.5	254.4	332.7	428.9	530.9	641.0	752.7	867.7	977.3	1079.3
-55°	109.1	148.2	196.1	260.3	332.7	420.4	510.1	609.5	705.7	808.5	906.9
-57.5°	84.7	115.9	151.6	196.1	254.4	315.7	394.7	471.2	557.5	642.8	726.7
-60°	62.7	87.1	115.9	148.2	184.5	236.8	287.6	352.3	420.1	485.6	560.4
-62.5°	42.6	62.7	84.7	109.1	138.1	166.2	207.7	252.6	295.8	353.0	409.7
-65°	33.3	41.6	57.8	77.4	96.4	121.2	146.0	169.8	206.6	244.1	279.8
-67.5°	23.8	31.3	38.7	48.2	65.3	82.0	98.0	119.3	139.9	159.6	182.1
-70°	19.6	21.8	27.4	33.8	40.0	48.6	62.9	76.7	89.9	104.1	120.7
-72.5°	16.5	18.4	20.2	22.0	27.0	32.3	37.4	42.3	51.0	62.0	72.5
-75°	13.4	15.0	16.6	18.1	19.6	21.0	22.8	27.0	31.0	34.9	38.5
-77.5°	10.3	11.6	12.9	14.2	15.4	16.6	17.7	18.8	19.9	20.9	21.9
-80°	7.6	8.3	9.3	10.3	11.2	12.2	13.1	14.0	14.8	15.6	16.4
-82.5°	5.8	6.2	6.7	7.1	7.6	8.0	8.5	9.1	9.7	10.3	10.9
-85°	3.9	4.2	4.5	4.8	5.1	5.4	5.6	5.9	6.1	6.4	6.6
-87.5°	1.9	2.1	2.3	2.4	2.6	2.7	2.8	3.0	3.1	3.2	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: P731243 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-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°	3.4	3.5	3.6	3.7	3.8	3.9	3.9	4.0	4.1	4.1	4.1
85°	6.8	7.0	7.2	7.4	7.5	7.7	7.8	7.9	8.0	8.1	8.2
82.5°	11.4	11.9	12.4	12.8	13.3	13.6	13.9	14.2	14.5	14.7	14.9
80°	17.1	17.8	18.4	19.0	19.6	20.0	20.5	20.9	21.2	21.5	21.8
77.5°	24.1	26.8	29.3	31.6	33.8	35.8	37.5	39.1	40.5	41.6	42.6
75°	42.0	46.6	54.1	61.0	67.4	73.2	78.4	83.0	87.1	90.5	93.4
72.5°	82.4	91.7	101.2	112.5	122.8	132.2	140.7	148.2	154.8	160.4	165.0
70°	136.4	151.2	165.1	181.4	201.6	220.1	236.8	251.6	264.5	275.5	284.6
67.5°	212.4	241.0	267.8	292.7	322.2	352.3	379.5	403.6	424.7	442.6	457.3
65°	319.3	365.2	408.2	448.3	485.6	526.2	562.9	595.6	624.1	648.3	668.3
62.5°	463.6	520.7	578.1	631.6	681.0	728.7	774.2	814.7	850.0	880.1	904.9
60°	631.6	698.9	768.7	834.3	895.0	950.5	998.7	1041.7	1079.3	1111.3	1137.7
57.5°	813.1	895.0	971.0	1040.0	1103.9	1162.5	1208.3	1244.4	1276.0	1303.0	1325.2
55°	998.7	1084.1	1164.5	1226.8	1280.1	1329.0	1371.4	1402.2	1429.1	1452.0	1471.0
52.5°	1176.6	1249.2	1315.8	1375.2	1420.2	1461.5	1499.0	1541.5	1580.5	1613.8	1641.3
50°	1312.6	1383.4	1439.2	1491.6	1551.9	1611.3	1665.3	1723.1	1783.0	1834.2	1876.5
47.5°	1426.7	1490.2	1565.1	1639.9	1717.5	1808.1	1890.6	1963.4	2021.5	2071.3	2112.5
45°	1534.4	1624.6	1718.1	1831.6	1937.5	2026.6	2106.3	2178.0	2261.3	2335.7	2397.2
42.5°	1664.9	1790.1	1919.1	2031.5	2133.2	2242.6	2360.8	2467.2	2839.0	3344.4	3763.6
40°	1833.8	1975.7	2098.8	2225.9	2375.7	2549.2	3347.4	4067.5	4806.5	5662.5	6373.7
37.5°	2002.5	2139.8	2302.3	2473.0	3292.7	4228.2	5405.1	6618.5	7700.1	8796.6	9709.6
35°	2153.6	2341.0	2658.6	3798.5	5070.6	6636.5	8155.2	9701.3	11076.4	12358.3	13453.6
32.5°	2341.0	2783.4	4054.6	5685.4	7476.6	9423.2	11255.7	13082.4	14723.5	16251.1	17619.5
30°	2658.6	4054.6	5892.2	7945.6	10199.4	12415.8	14585.6	16733.0	18771.3	20618.9	22358.7
27.5°	3798.5	5685.4	7945.6	10460.8	13011.3	15516.7	18187.3	20726.4	23299.8	25557.0	27880.2
25°	5070.6	7476.6	10199.4	13011.3	15873.3	18928.5	22068.6	25153.3	28472.6	31481.9	35087.1
22.5°	6636.5	9423.2	12415.8	15516.7	18928.5	22522.3	26219.1	30282.3	35013.2	40188.2	45406.9
20°	8155.2	11255.7	14585.6	18187.3	22068.6	26219.1	30896.1	37039.5	43680.6	51592.6	58844.6
17.5°	9701.3	13082.4	16733.0	20726.4	25153.3	30282.3	37039.5	45192.9	54799.6	65510.2	75492.4
15°	11076.4	14723.5	18771.3	23299.8	28472.6	35013.2	43680.6	54799.6	67796.5	81708.3	96294.4
12.5°	12358.3	16251.1	20618.9	25557.0	31481.9	40188.2	51592.6	65510.2	81708.3	99837.0	113250.9
10°	13453.6	17619.5	22358.7	27880.2	35087.1	45406.9	58844.6	75492.4	96294.4	113250.9	127071.2
7.5°	14319.9	18704.8	23743.3	29738.7	38311.4	50394.3	66160.0	86077.7	107051.1	124041.7	137629.7
5°	14946.8	19491.9	24750.2	31095.0	40674.8	54071.2	71594.9	94161.2	114570.1	131441.6	145160.2
2.5°	15326.2	19969.1	25361.8	31920.8	42118.6	56326.9	74948.5	99190.1	119304.4	135982.3	149983.7
0°	15453.3	20129.0	25567.0	32198.2	42604.3	57087.5	76082.9	100898.8	120923.9	137487.9	151689.1
-2.5°	15326.2	19969.1	25361.8	31920.8	42118.6	56326.9	74948.5	99190.1	119304.4	135982.3	149983.7
-5°	14946.8	19491.9	24750.2	31095.0	40674.8	54071.2	71594.9	94161.2	114570.1	131441.6	145160.2
-7.5°	14319.9	18704.8	23743.3	29738.7	38311.4	50394.3	66160.0	86077.7	107051.1	124041.7	137629.7
-10°	13453.6	17619.5	22358.7	27880.2	35087.1	45406.9	58844.6	75492.4	96294.4	113250.9	127071.2
-12.5°	12358.3	16251.1	20618.9	25557.0	31481.9	40188.2	51592.6	65510.2	81708.3	99837.0	113250.9
-15°	11076.4	14723.5	18771.3	23299.8	28472.6	35013.2	43680.6	54799.6	67796.5	81708.3	96294.4
-17.5°	9701.3	13082.4	16733.0	20726.4	25153.3	30282.3	37039.5	45192.9	54799.6	65510.2	75492.4
-20°	8155.2	11255.7	14585.6	18187.3	22068.6	26219.1	30896.1	37039.5	43680.6	51592.6	58844.6



REPORT NUMBER: P731243 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	6636.5	9423.2	12415.8	15516.7	18928.5	22522.3	26219.1	30282.3	35013.2	40188.2	45406.9
-25°	5070.6	7476.6	10199.4	13011.3	15873.3	18928.5	22068.6	25153.3	28472.6	31481.9	35087.1
-27.5°	3798.5	5685.4	7945.6	10460.8	13011.3	15516.7	18187.3	20726.4	23299.8	25557.0	27880.2
-30°	2658.6	4054.6	5892.2	7945.6	10199.4	12415.8	14585.6	16733.0	18771.3	20618.9	22358.7
-32.5°	2341.0	2783.4	4054.6	5685.4	7476.6	9423.2	11255.7	13082.4	14723.5	16251.1	17619.5
-35°	2153.6	2341.0	2658.6	3798.5	5070.6	6636.5	8155.2	9701.3	11076.4	12358.3	13453.6
-37.5°	2002.5	2139.8	2302.3	2473.0	3292.7	4228.2	5405.1	6618.5	7700.1	8796.6	9709.6
-40°	1833.8	1975.7	2098.8	2225.9	2375.7	2549.2	3347.4	4067.5	4806.5	5662.5	6373.7
-42.5°	1664.9	1790.1	1919.1	2031.5	2133.2	2242.6	2360.8	2467.2	2839.0	3344.4	3763.6
-45°	1534.4	1624.6	1718.1	1831.6	1937.5	2026.6	2106.3	2178.0	2261.3	2335.7	2397.2
-47.5°	1426.7	1490.2	1565.1	1639.9	1717.5	1808.1	1890.6	1963.4	2021.5	2071.3	2112.5
-50°	1312.6	1383.4	1439.2	1491.6	1551.9	1611.3	1665.3	1723.1	1783.0	1834.2	1876.5
-52.5°	1176.6	1249.2	1315.8	1375.2	1420.2	1461.5	1499.0	1541.5	1580.5	1613.8	1641.3
-55°	998.7	1084.1	1164.5	1226.8	1280.1	1329.0	1371.4	1402.2	1429.1	1452.0	1471.0
-57.5°	813.1	895.0	971.0	1040.0	1103.9	1162.5	1208.3	1244.4	1276.0	1303.0	1325.2
-60°	631.6	698.9	768.7	834.3	895.0	950.5	998.7	1041.7	1079.3	1111.3	1137.7
-62.5°	463.6	520.7	578.1	631.6	681.0	728.7	774.2	814.7	850.0	880.1	904.9
-65°	319.3	365.2	408.2	448.3	485.6	526.2	562.9	595.6	624.1	648.3	668.3
-67.5°	212.4	241.0	267.8	292.7	322.2	352.3	379.5	403.6	424.7	442.6	457.3
-70°	136.4	151.2	165.1	181.4	201.6	220.1	236.8	251.6	264.5	275.5	284.6
-72.5°	82.4	91.7	101.2	112.5	122.8	132.2	140.7	148.2	154.8	160.4	165.0
-75°	42.0	46.6	54.1	61.0	67.4	73.2	78.4	83.0	87.1	90.5	93.4
-77.5°	24.1	26.8	29.3	31.6	33.8	35.8	37.5	39.1	40.5	41.6	42.6
-80°	17.1	17.8	18.4	19.0	19.6	20.0	20.5	20.9	21.2	21.5	21.8
-82.5°	11.4	11.9	12.4	12.8	13.3	13.6	13.9	14.2	14.5	14.7	14.9
-85°	6.8	7.0	7.2	7.4	7.5	7.7	7.8	7.9	8.0	8.1	8.2
-87.5°	3.4	3.5	3.6	3.7	3.8	3.9	3.9	4.0	4.1	4.1	4.1
-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: P731243 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-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°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.1	4.1	4.1	4.0
85°	8.2	8.3	8.3	8.3	8.3	8.3	8.2	8.2	8.1	8.0	7.9
82.5°	15.0	15.1	15.2	15.2	15.1	15.0	14.9	14.9	14.7	14.5	14.2
80°	22.0	22.1	22.2	22.2	22.1	22.0	21.8	21.8	21.5	21.2	20.9
77.5°	43.3	43.9	44.2	44.3	44.2	43.9	43.3	42.6	41.6	40.5	39.1
75°	95.6	97.1	98.1	98.4	98.1	97.1	95.6	93.4	90.5	87.1	83.0
72.5°	168.6	171.1	172.7	173.2	172.7	171.1	168.6	165.0	160.4	154.8	148.2
70°	291.6	296.7	299.7	300.7	299.7	296.7	291.6	284.6	275.5	264.5	251.6
67.5°	468.8	477.1	482.0	483.7	482.0	477.1	468.8	457.3	442.6	424.7	403.6
65°	683.9	695.0	701.8	704.0	701.8	695.0	683.9	668.3	648.3	624.1	595.6
62.5°	924.3	938.2	946.5	949.3	946.5	938.2	924.3	904.9	880.1	850.0	814.7
60°	1158.3	1173.0	1181.9	1184.9	1181.9	1173.0	1158.3	1137.7	1111.3	1079.3	1041.7
57.5°	1342.5	1355.0	1362.5	1365.0	1362.5	1355.0	1342.5	1325.2	1303.0	1276.0	1244.4
55°	1485.8	1496.5	1502.9	1505.0	1502.9	1496.5	1485.8	1471.0	1452.0	1429.1	1402.2
52.5°	1662.8	1678.3	1687.6	1690.7	1687.6	1678.3	1662.8	1641.3	1613.8	1580.5	1541.5
50°	1909.6	1933.5	1947.8	1952.6	1947.8	1933.5	1909.6	1876.5	1834.2	1783.0	1723.1
47.5°	2144.9	2168.1	2182.1	2186.8	2182.1	2168.1	2144.9	2112.5	2071.3	2021.5	1963.4
45°	2445.5	2480.3	2501.3	2508.3	2501.3	2480.3	2445.5	2397.2	2335.7	2261.3	2178.0
42.5°	4093.2	4330.7	4474.0	4521.9	4474.0	4330.7	4093.2	3763.6	3344.4	2839.0	2467.2
40°	6933.9	7337.9	7582.0	7663.6	7582.0	7337.9	6933.9	6373.7	5662.5	4806.5	4067.5
37.5°	10430.2	10950.7	11265.4	11370.7	11265.4	10950.7	10430.2	9709.6	8796.6	7700.1	6618.5
35°	14319.9	14946.8	15326.2	15453.3	15326.2	14946.8	14319.9	13453.6	12358.3	11076.4	9701.3
32.5°	18704.8	19491.9	19969.1	20129.0	19969.1	19491.9	18704.8	17619.5	16251.1	14723.5	13082.4
30°	23743.3	24750.2	25361.8	25567.0	25361.8	24750.2	23743.3	22358.7	20618.9	18771.3	16733.0
27.5°	29738.7	31095.0	31920.8	32198.2	31920.8	31095.0	29738.7	27880.2	25557.0	23299.8	20726.4
25°	38311.4	40674.8	42118.6	42604.3	42118.6	40674.8	38311.4	35087.1	31481.9	28472.6	25153.3
22.5°	50394.3	54071.2	56326.9	57087.5	56326.9	54071.2	50394.3	45406.9	40188.2	35013.2	30282.3
20°	66160.0	71594.9	74948.5	76082.9	74948.5	71594.9	66160.0	58844.6	51592.6	43680.6	37039.5
17.5°	86077.7	94161.2	99190.1	100898.8	99190.1	94161.2	86077.7	75492.4	65510.2	54799.6	45192.9
15°	107051.1	114570.1	119304.4	120923.9	119304.4	114570.1	107051.1	96294.4	81708.3	67796.5	54799.6
12.5°	124041.7	131441.6	135982.3	137487.9	135982.3	131441.6	124041.7	113250.9	99837.0	81708.3	65510.2
10°	137629.7	145160.2	149983.7	151689.1	149983.7	145160.2	137629.7	127071.2	113250.9	96294.4	75492.4
7.5°	148378.8	156878.5	162026.5	163858.7	162026.5	156878.5	148378.8	137629.7	124041.7	107051.1	86077.7
5°	156878.5	165827.1	171920.4	174064.6	171920.4	165827.1	156878.5	145160.2	131441.6	114570.1	94161.2
2.5°	162026.5	171920.4	177806.6	179497.7	177806.6	171920.4	162026.5	149983.7	135982.3	119304.4	99190.1
0°	163858.7	174064.6	179497.7	180267.5	179497.7	174064.6	163858.7	151689.1	137487.9	120923.9	100898.8
-2.5°	162026.5	171920.4	177806.6	179497.7	177806.6	171920.4	162026.5	149983.7	135982.3	119304.4	99190.1
-5°	156878.5	165827.1	171920.4	174064.6	171920.4	165827.1	156878.5	145160.2	131441.6	114570.1	94161.2
-7.5°	148378.8	156878.5	162026.5	163858.7	162026.5	156878.5	148378.8	137629.7	124041.7	107051.1	86077.7
-10°	137629.7	145160.2	149983.7	151689.1	149983.7	145160.2	137629.7	127071.2	113250.9	96294.4	75492.4
-12.5°	124041.7	131441.6	135982.3	137487.9	135982.3	131441.6	124041.7	113250.9	99837.0	81708.3	65510.2
-15°	107051.1	114570.1	119304.4	120923.9	119304.4	114570.1	107051.1	96294.4	81708.3	67796.5	54799.6
-17.5°	86077.7	94161.2	99190.1	100898.8	99190.1	94161.2	86077.7	75492.4	65510.2	54799.6	45192.9
-20°	66160.0	71594.9	74948.5	76082.9	74948.5	71594.9	66160.0	58844.6	51592.6	43680.6	37039.5



REPORT NUMBER: P731243 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	50394.3	54071.2	56326.9	57087.5	56326.9	54071.2	50394.3	45406.9	40188.2	35013.2	30282.3
-25°	38311.4	40674.8	42118.6	42604.3	42118.6	40674.8	38311.4	35087.1	31481.9	28472.6	25153.3
-27.5°	29738.7	31095.0	31920.8	32198.2	31920.8	31095.0	29738.7	27880.2	25557.0	23299.8	20726.4
-30°	23743.3	24750.2	25361.8	25567.0	25361.8	24750.2	23743.3	22358.7	20618.9	18771.3	16733.0
-32.5°	18704.8	19491.9	19969.1	20129.0	19969.1	19491.9	18704.8	17619.5	16251.1	14723.5	13082.4
-35°	14319.9	14946.8	15326.2	15453.3	15326.2	14946.8	14319.9	13453.6	12358.3	11076.4	9701.3
-37.5°	10430.2	10950.7	11265.4	11370.7	11265.4	10950.7	10430.2	9709.6	8796.6	7700.1	6618.5
-40°	6933.9	7337.9	7582.0	7663.6	7582.0	7337.9	6933.9	6373.7	5662.5	4806.5	4067.5
-42.5°	4093.2	4330.7	4474.0	4521.9	4474.0	4330.7	4093.2	3763.6	3344.4	2839.0	2467.2
-45°	2445.5	2480.3	2501.3	2508.3	2501.3	2480.3	2445.5	2397.2	2335.7	2261.3	2178.0
-47.5°	2144.9	2168.1	2182.1	2186.8	2182.1	2168.1	2144.9	2112.5	2071.3	2021.5	1963.4
-50°	1909.6	1933.5	1947.8	1952.6	1947.8	1933.5	1909.6	1876.5	1834.2	1783.0	1723.1
-52.5°	1662.8	1678.3	1687.6	1690.7	1687.6	1678.3	1662.8	1641.3	1613.8	1580.5	1541.5
-55°	1485.8	1496.5	1502.9	1505.0	1502.9	1496.5	1485.8	1471.0	1452.0	1429.1	1402.2
-57.5°	1342.5	1355.0	1362.5	1365.0	1362.5	1355.0	1342.5	1325.2	1303.0	1276.0	1244.4
-60°	1158.3	1173.0	1181.9	1184.9	1181.9	1173.0	1158.3	1137.7	1111.3	1079.3	1041.7
-62.5°	924.3	938.2	946.5	949.3	946.5	938.2	924.3	904.9	880.1	850.0	814.7
-65°	683.9	695.0	701.8	704.0	701.8	695.0	683.9	668.3	648.3	624.1	595.6
-67.5°	468.8	477.1	482.0	483.7	482.0	477.1	468.8	457.3	442.6	424.7	403.6
-70°	291.6	296.7	299.7	300.7	299.7	296.7	291.6	284.6	275.5	264.5	251.6
-72.5°	168.6	171.1	172.7	173.2	172.7	171.1	168.6	165.0	160.4	154.8	148.2
-75°	95.6	97.1	98.1	98.4	98.1	97.1	95.6	93.4	90.5	87.1	83.0
-77.5°	43.3	43.9	44.2	44.3	44.2	43.9	43.3	42.6	41.6	40.5	39.1
-80°	22.0	22.1	22.2	22.2	22.2	22.1	22.0	21.8	21.5	21.2	20.9
-82.5°	15.0	15.1	15.2	15.2	15.2	15.1	15.0	14.9	14.7	14.5	14.2
-85°	8.2	8.3	8.3	8.3	8.3	8.3	8.2	8.2	8.1	8.0	7.9
-87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.1	4.1	4.1	4.0
-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: P731243 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-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°	3.9	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.1	3.0
85°	7.8	7.7	7.5	7.4	7.2	7.0	6.8	6.6	6.4	6.1	5.9
82.5°	13.9	13.6	13.3	12.8	12.4	11.9	11.4	10.9	10.3	9.7	9.1
80°	20.5	20.0	19.6	19.0	18.4	17.8	17.1	16.4	15.6	14.8	14.0
77.5°	37.5	35.8	33.8	31.6	29.3	26.8	24.1	21.9	20.9	19.9	18.8
75°	78.4	73.2	67.4	61.0	54.1	46.6	42.0	38.5	34.9	31.0	27.0
72.5°	140.7	132.2	122.8	112.5	101.2	91.7	82.4	72.5	62.0	51.0	42.3
70°	236.8	220.1	201.6	181.4	165.1	151.2	136.4	120.7	104.1	89.9	76.7
67.5°	379.5	352.3	322.2	292.7	267.8	241.0	212.4	182.1	159.6	139.9	119.3
65°	562.9	526.2	485.6	448.3	408.2	365.2	319.3	279.8	244.1	206.6	169.8
62.5°	774.2	728.7	681.0	631.6	578.1	520.7	463.6	409.7	353.0	295.8	252.6
60°	998.7	950.5	895.0	834.3	768.7	698.9	631.6	560.4	485.6	420.1	352.3
57.5°	1208.3	1162.5	1103.9	1040.0	971.0	895.0	813.1	726.7	642.8	557.5	471.2
55°	1371.4	1329.0	1280.1	1226.8	1164.5	1084.1	998.7	906.9	808.5	705.7	609.5
52.5°	1499.0	1461.5	1420.2	1375.2	1315.8	1249.2	1176.6	1079.3	977.3	867.7	752.7
50°	1665.3	1611.3	1551.9	1491.6	1439.2	1383.4	1312.6	1232.5	1137.7	1023.6	903.6
47.5°	1890.6	1808.1	1717.5	1639.9	1565.1	1490.2	1426.7	1358.6	1269.0	1173.0	1047.0
45°	2106.3	2026.6	1937.5	1831.6	1718.1	1624.6	1534.4	1455.9	1381.7	1287.3	1184.9
42.5°	2360.8	2242.6	2133.2	2031.5	1919.1	1790.1	1664.9	1564.2	1470.7	1388.9	1287.3
40°	3347.4	2549.2	2375.7	2225.9	2098.8	1975.7	1833.8	1685.2	1574.2	1470.7	1381.7
37.5°	5405.1	4228.2	3292.7	2473.0	2302.3	2139.8	2002.5	1848.5	1685.2	1564.2	1455.9
35°	8155.2	6636.5	5070.6	3798.5	2658.6	2341.0	2153.6	2002.5	1833.8	1664.9	1534.4
32.5°	11255.7	9423.2	7476.6	5685.4	4054.6	2783.4	2341.0	2139.8	1975.7	1790.1	1624.6
30°	14585.6	12415.8	10199.4	7945.6	5892.2	4054.6	2658.6	2302.3	2098.8	1919.1	1718.1
27.5°	18187.3	15516.7	13011.3	10460.8	7945.6	5685.4	3798.5	2473.0	2225.9	2031.5	1831.6
25°	22068.6	18928.5	15873.3	13011.3	10199.4	7476.6	5070.6	3292.7	2375.7	2133.2	1937.5
22.5°	26219.1	22522.3	18928.5	15516.7	12415.8	9423.2	6636.5	4228.2	2549.2	2242.6	2026.6
20°	30896.1	26219.1	22068.6	18187.3	14585.6	11255.7	8155.2	5405.1	3347.4	2360.8	2106.3
17.5°	37039.5	30282.3	25153.3	20726.4	16733.0	13082.4	9701.3	6618.5	4067.5	2467.2	2178.0
15°	43680.6	35013.2	28472.6	23299.8	18771.3	14723.5	11076.4	7700.1	4806.5	2839.0	2261.3
12.5°	51592.6	40188.2	31481.9	25557.0	20618.9	16251.1	12358.3	8796.6	5662.5	3344.4	2335.7
10°	58844.6	45406.9	35087.1	27880.2	22358.7	17619.5	13453.6	9709.6	6373.7	3763.6	2397.2
7.5°	66160.0	50394.3	38311.4	29738.7	23743.3	18704.8	14319.9	10430.2	6933.9	4093.2	2445.5
5°	71594.9	54071.2	40674.8	31095.0	24750.2	19491.9	14946.8	10950.7	7337.9	4330.7	2480.3
2.5°	74948.5	56326.9	42118.6	31920.8	25361.8	19969.1	15326.2	11265.4	7582.0	4474.0	2501.3
0°	76082.9	57087.5	42604.3	32198.2	25567.0	20129.0	15453.3	11370.7	7663.6	4521.9	2508.3
-2.5°	74948.5	56326.9	42118.6	31920.8	25361.8	19969.1	15326.2	11265.4	7582.0	4474.0	2501.3
-5°	71594.9	54071.2	40674.8	31095.0	24750.2	19491.9	14946.8	10950.7	7337.9	4330.7	2480.3
-7.5°	66160.0	50394.3	38311.4	29738.7	23743.3	18704.8	14319.9	10430.2	6933.9	4093.2	2445.5
-10°	58844.6	45406.9	35087.1	27880.2	22358.7	17619.5	13453.6	9709.6	6373.7	3763.6	2397.2
-12.5°	51592.6	40188.2	31481.9	25557.0	20618.9	16251.1	12358.3	8796.6	5662.5	3344.4	2335.7
-15°	43680.6	35013.2	28472.6	23299.8	18771.3	14723.5	11076.4	7700.1	4806.5	2839.0	2261.3
-17.5°	37039.5	30282.3	25153.3	20726.4	16733.0	13082.4	9701.3	6618.5	4067.5	2467.2	2178.0
-20°	30896.1	26219.1	22068.6	18187.3	14585.6	11255.7	8155.2	5405.1	3347.4	2360.8	2106.3



REPORT NUMBER: P731243 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	26219.1	22522.3	18928.5	15516.7	12415.8	9423.2	6636.5	4228.2	2549.2	2242.6	2026.6
-25°	22068.6	18928.5	15873.3	13011.3	10199.4	7476.6	5070.6	3292.7	2375.7	2133.2	1937.5
-27.5°	18187.3	15516.7	13011.3	10460.8	7945.6	5685.4	3798.5	2473.0	2225.9	2031.5	1831.6
-30°	14585.6	12415.8	10199.4	7945.6	5892.2	4054.6	2658.6	2302.3	2098.8	1919.1	1718.1
-32.5°	11255.7	9423.2	7476.6	5685.4	4054.6	2783.4	2341.0	2139.8	1975.7	1790.1	1624.6
-35°	8155.2	6636.5	5070.6	3798.5	2658.6	2341.0	2153.6	2002.5	1833.8	1664.9	1534.4
-37.5°	5405.1	4228.2	3292.7	2473.0	2302.3	2139.8	2002.5	1848.5	1685.2	1564.2	1455.9
-40°	3347.4	2549.2	2375.7	2225.9	2098.8	1975.7	1833.8	1685.2	1574.2	1470.7	1381.7
-42.5°	2360.8	2242.6	2133.2	2031.5	1919.1	1790.1	1664.9	1564.2	1470.7	1388.9	1287.3
-45°	2106.3	2026.6	1937.5	1831.6	1718.1	1624.6	1534.4	1455.9	1381.7	1287.3	1184.9
-47.5°	1890.6	1808.1	1717.5	1639.9	1565.1	1490.2	1426.7	1358.6	1269.0	1173.0	1047.0
-50°	1665.3	1611.3	1551.9	1491.6	1439.2	1383.4	1312.6	1232.5	1137.7	1023.6	903.6
-52.5°	1499.0	1461.5	1420.2	1375.2	1315.8	1249.2	1176.6	1079.3	977.3	867.7	752.7
-55°	1371.4	1329.0	1280.1	1226.8	1164.5	1084.1	998.7	906.9	808.5	705.7	609.5
-57.5°	1208.3	1162.5	1103.9	1040.0	971.0	895.0	813.1	726.7	642.8	557.5	471.2
-60°	998.7	950.5	895.0	834.3	768.7	698.9	631.6	560.4	485.6	420.1	352.3
-62.5°	774.2	728.7	681.0	631.6	578.1	520.7	463.6	409.7	353.0	295.8	252.6
-65°	562.9	526.2	485.6	448.3	408.2	365.2	319.3	279.8	244.1	206.6	169.8
-67.5°	379.5	352.3	322.2	292.7	267.8	241.0	212.4	182.1	159.6	139.9	119.3
-70°	236.8	220.1	201.6	181.4	165.1	151.2	136.4	120.7	104.1	89.9	76.7
-72.5°	140.7	132.2	122.8	112.5	101.2	91.7	82.4	72.5	62.0	51.0	42.3
-75°	78.4	73.2	67.4	61.0	54.1	46.6	42.0	38.5	34.9	31.0	27.0
-77.5°	37.5	35.8	33.8	31.6	29.3	26.8	24.1	21.9	20.9	19.9	18.8
-80°	20.5	20.0	19.6	19.0	18.4	17.8	17.1	16.4	15.6	14.8	14.0
-82.5°	13.9	13.6	13.3	12.8	12.4	11.9	11.4	10.9	10.3	9.7	9.1
-85°	7.8	7.7	7.5	7.4	7.2	7.0	6.8	6.6	6.4	6.1	5.9
-87.5°	3.9	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.1	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: P731243 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-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°	2.8	2.7	2.6	2.4	2.3	2.1	1.9	1.8	1.6	1.4	1.3
85°	5.6	5.4	5.1	4.8	4.5	4.2	3.9	3.5	3.2	2.9	2.5
82.5°	8.5	8.0	7.6	7.1	6.7	6.2	5.8	5.3	4.8	4.3	3.8
80°	13.1	12.2	11.2	10.3	9.3	8.3	7.6	7.0	6.3	5.7	5.0
77.5°	17.7	16.6	15.4	14.2	12.9	11.6	10.3	9.0	7.9	7.1	6.2
75°	22.8	21.0	19.6	18.1	16.6	15.0	13.4	11.8	10.2	8.5	7.4
72.5°	37.4	32.3	27.0	22.0	20.2	18.4	16.5	14.7	12.7	10.8	8.8
70°	62.9	48.6	40.0	33.8	27.4	21.8	19.6	17.5	15.3	13.0	10.8
67.5°	98.0	82.0	65.3	48.2	38.7	31.3	23.8	20.3	17.8	15.3	12.7
65°	146.0	121.2	96.4	77.4	57.8	41.6	33.3	24.8	20.3	17.5	14.7
62.5°	207.7	166.2	138.1	109.1	84.7	62.7	42.6	33.3	23.8	19.6	16.5
60°	287.6	236.8	184.5	148.2	115.9	87.1	62.7	41.6	31.3	21.8	18.4
57.5°	394.7	315.7	254.4	196.1	151.6	115.9	84.7	57.8	38.7	27.4	20.2
55°	510.1	420.4	332.7	260.3	196.1	148.2	109.1	77.4	48.2	33.8	22.0
52.5°	641.0	530.9	428.9	332.7	254.4	184.5	138.1	96.4	65.3	40.0	27.0
50°	776.4	651.5	530.9	420.4	315.7	236.8	166.2	121.2	82.0	48.6	32.3
47.5°	915.6	776.4	641.0	510.1	394.7	287.6	207.7	146.0	98.0	62.9	37.4
45°	1047.0	903.6	752.7	609.5	471.2	352.3	252.6	169.8	119.3	76.7	42.3
42.5°	1173.0	1023.6	867.7	705.7	557.5	420.1	295.8	206.6	139.9	89.9	51.0
40°	1269.0	1137.7	977.3	808.5	642.8	485.6	353.0	244.1	159.6	104.1	62.0
37.5°	1358.6	1232.5	1079.3	906.9	726.7	560.4	409.7	279.8	182.1	120.7	72.5
35°	1426.7	1312.6	1176.6	998.7	813.1	631.6	463.6	319.3	212.4	136.4	82.4
32.5°	1490.2	1383.4	1249.2	1084.1	895.0	698.9	520.7	365.2	241.0	151.2	91.7
30°	1565.1	1439.2	1315.8	1164.5	971.0	768.7	578.1	408.2	267.8	165.1	101.2
27.5°	1639.9	1491.6	1375.2	1226.8	1040.0	834.3	631.6	448.3	292.7	181.4	112.5
25°	1717.5	1551.9	1420.2	1280.1	1103.9	895.0	681.0	485.6	322.2	201.6	122.8
22.5°	1808.1	1611.3	1461.5	1329.0	1162.5	950.5	728.7	526.2	352.3	220.1	132.2
20°	1890.6	1665.3	1499.0	1371.4	1208.3	998.7	774.2	562.9	379.5	236.8	140.7
17.5°	1963.4	1723.1	1541.5	1402.2	1244.4	1041.7	814.7	595.6	403.6	251.6	148.2
15°	2021.5	1783.0	1580.5	1429.1	1276.0	1079.3	850.0	624.1	424.7	264.5	154.8
12.5°	2071.3	1834.2	1613.8	1452.0	1303.0	1111.3	880.1	648.3	442.6	275.5	160.4
10°	2112.5	1876.5	1641.3	1471.0	1325.2	1137.7	904.9	668.3	457.3	284.6	165.0
7.5°	2144.9	1909.6	1662.8	1485.8	1342.5	1158.3	924.3	683.9	468.8	291.6	168.6
5°	2168.1	1933.5	1678.3	1496.5	1355.0	1173.0	938.2	695.0	477.1	296.7	171.1
2.5°	2182.1	1947.8	1687.6	1502.9	1362.5	1181.9	946.5	701.8	482.0	299.7	172.7
0°	2186.8	1952.6	1690.7	1505.0	1365.0	1184.9	949.3	704.0	483.7	300.7	173.2
-2.5°	2182.1	1947.8	1687.6	1502.9	1362.5	1181.9	946.5	701.8	482.0	299.7	172.7
-5°	2168.1	1933.5	1678.3	1496.5	1355.0	1173.0	938.2	695.0	477.1	296.7	171.1
-7.5°	2144.9	1909.6	1662.8	1485.8	1342.5	1158.3	924.3	683.9	468.8	291.6	168.6
-10°	2112.5	1876.5	1641.3	1471.0	1325.2	1137.7	904.9	668.3	457.3	284.6	165.0
-12.5°	2071.3	1834.2	1613.8	1452.0	1303.0	1111.3	880.1	648.3	442.6	275.5	160.4
-15°	2021.5	1783.0	1580.5	1429.1	1276.0	1079.3	850.0	624.1	424.7	264.5	154.8
-17.5°	1963.4	1723.1	1541.5	1402.2	1244.4	1041.7	814.7	595.6	403.6	251.6	148.2
-20°	1890.6	1665.3	1499.0	1371.4	1208.3	998.7	774.2	562.9	379.5	236.8	140.7



REPORT NUMBER: P731243 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1808.1	1611.3	1461.5	1329.0	1162.5	950.5	728.7	526.2	352.3	220.1	132.2
-25°	1717.5	1551.9	1420.2	1280.1	1103.9	895.0	681.0	485.6	322.2	201.6	122.8
-27.5°	1639.9	1491.6	1375.2	1226.8	1040.0	834.3	631.6	448.3	292.7	181.4	112.5
-30°	1565.1	1439.2	1315.8	1164.5	971.0	768.7	578.1	408.2	267.8	165.1	101.2
-32.5°	1490.2	1383.4	1249.2	1084.1	895.0	698.9	520.7	365.2	241.0	151.2	91.7
-35°	1426.7	1312.6	1176.6	998.7	813.1	631.6	463.6	319.3	212.4	136.4	82.4
-37.5°	1358.6	1232.5	1079.3	906.9	726.7	560.4	409.7	279.8	182.1	120.7	72.5
-40°	1269.0	1137.7	977.3	808.5	642.8	485.6	353.0	244.1	159.6	104.1	62.0
-42.5°	1173.0	1023.6	867.7	705.7	557.5	420.1	295.8	206.6	139.9	89.9	51.0
-45°	1047.0	903.6	752.7	609.5	471.2	352.3	252.6	169.8	119.3	76.7	42.3
-47.5°	915.6	776.4	641.0	510.1	394.7	287.6	207.7	146.0	98.0	62.9	37.4
-50°	776.4	651.5	530.9	420.4	315.7	236.8	166.2	121.2	82.0	48.6	32.3
-52.5°	641.0	530.9	428.9	332.7	254.4	184.5	138.1	96.4	65.3	40.0	27.0
-55°	510.1	420.4	332.7	260.3	196.1	148.2	109.1	77.4	48.2	33.8	22.0
-57.5°	394.7	315.7	254.4	196.1	151.6	115.9	84.7	57.8	38.7	27.4	20.2
-60°	287.6	236.8	184.5	148.2	115.9	87.1	62.7	41.6	31.3	21.8	18.4
-62.5°	207.7	166.2	138.1	109.1	84.7	62.7	42.6	33.3	23.8	19.6	16.5
-65°	146.0	121.2	96.4	77.4	57.8	41.6	33.3	24.8	20.3	17.5	14.7
-67.5°	98.0	82.0	65.3	48.2	38.7	31.3	23.8	20.3	17.8	15.3	12.7
-70°	62.9	48.6	40.0	33.8	27.4	21.8	19.6	17.5	15.3	13.0	10.8
-72.5°	37.4	32.3	27.0	22.0	20.2	18.4	16.5	14.7	12.7	10.8	8.8
-75°	22.8	21.0	19.6	18.1	16.6	15.0	13.4	11.8	10.2	8.5	7.4
-77.5°	17.7	16.6	15.4	14.2	12.9	11.6	10.3	9.0	7.9	7.1	6.2
-80°	13.1	12.2	11.2	10.3	9.3	8.3	7.6	7.0	6.3	5.7	5.0
-82.5°	8.5	8.0	7.6	7.1	6.7	6.2	5.8	5.3	4.8	4.3	3.8
-85°	5.6	5.4	5.1	4.8	4.5	4.2	3.9	3.5	3.2	2.9	2.5
-87.5°	2.8	2.7	2.6	2.4	2.3	2.1	1.9	1.8	1.6	1.4	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



REPORT NUMBER: P731243 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-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°	1.1	0.9	0.7	0.5	0.4	0.2	0.0
85°	2.2	1.8	1.5	1.1	0.7	0.4	0.0
82.5°	3.3	2.7	2.2	1.6	1.1	0.5	0.0
80°	4.3	3.6	2.9	2.2	1.5	0.7	0.0
77.5°	5.4	4.5	3.6	2.7	1.8	0.9	0.0
75°	6.4	5.4	4.3	3.3	2.2	1.1	0.0
72.5°	7.4	6.2	5.0	3.8	2.5	1.3	0.0
70°	8.5	7.1	5.7	4.3	2.9	1.4	0.0
67.5°	10.2	7.9	6.3	4.8	3.2	1.6	0.0
65°	11.8	9.0	7.0	5.3	3.5	1.8	0.0
62.5°	13.4	10.3	7.6	5.8	3.9	1.9	0.0
60°	15.0	11.6	8.3	6.2	4.2	2.1	0.0
57.5°	16.6	12.9	9.3	6.7	4.5	2.3	0.0
55°	18.1	14.2	10.3	7.1	4.8	2.4	0.0
52.5°	19.6	15.4	11.2	7.6	5.1	2.6	0.0
50°	21.0	16.6	12.2	8.0	5.4	2.7	0.0
47.5°	22.8	17.7	13.1	8.5	5.6	2.8	0.0
45°	27.0	18.8	14.0	9.1	5.9	3.0	0.0
42.5°	31.0	19.9	14.8	9.7	6.1	3.1	0.0
40°	34.9	20.9	15.6	10.3	6.4	3.2	0.0
37.5°	38.5	21.9	16.4	10.9	6.6	3.3	0.0
35°	42.0	24.1	17.1	11.4	6.8	3.4	0.0
32.5°	46.6	26.8	17.8	11.9	7.0	3.5	0.0
30°	54.1	29.3	18.4	12.4	7.2	3.6	0.0
27.5°	61.0	31.6	19.0	12.8	7.4	3.7	0.0
25°	67.4	33.8	19.6	13.3	7.5	3.8	0.0
22.5°	73.2	35.8	20.0	13.6	7.7	3.9	0.0
20°	78.4	37.5	20.5	13.9	7.8	3.9	0.0
17.5°	83.0	39.1	20.9	14.2	7.9	4.0	0.0
15°	87.1	40.5	21.2	14.5	8.0	4.1	0.0
12.5°	90.5	41.6	21.5	14.7	8.1	4.1	0.0
10°	93.4	42.6	21.8	14.9	8.2	4.1	0.0
7.5°	95.6	43.3	22.0	15.0	8.2	4.2	0.0
5°	97.1	43.9	22.1	15.1	8.3	4.2	0.0
2.5°	98.1	44.2	22.2	15.2	8.3	4.2	0.0
0°	98.4	44.3	22.2	15.2	8.3	4.2	0.0
-2.5°	98.1	44.2	22.2	15.2	8.3	4.2	0.0
-5°	97.1	43.9	22.1	15.1	8.3	4.2	0.0
-7.5°	95.6	43.3	22.0	15.0	8.2	4.2	0.0
-10°	93.4	42.6	21.8	14.9	8.2	4.1	0.0
-12.5°	90.5	41.6	21.5	14.7	8.1	4.1	0.0
-15°	87.1	40.5	21.2	14.5	8.0	4.1	0.0
-17.5°	83.0	39.1	20.9	14.2	7.9	4.0	0.0
-20°	78.4	37.5	20.5	13.9	7.8	3.9	0.0



REPORT NUMBER: P731243 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	73.2	35.8	20.0	13.6	7.7	3.9	0.0
-25°	67.4	33.8	19.6	13.3	7.5	3.8	0.0
-27.5°	61.0	31.6	19.0	12.8	7.4	3.7	0.0
-30°	54.1	29.3	18.4	12.4	7.2	3.6	0.0
-32.5°	46.6	26.8	17.8	11.9	7.0	3.5	0.0
-35°	42.0	24.1	17.1	11.4	6.8	3.4	0.0
-37.5°	38.5	21.9	16.4	10.9	6.6	3.3	0.0
-40°	34.9	20.9	15.6	10.3	6.4	3.2	0.0
-42.5°	31.0	19.9	14.8	9.7	6.1	3.1	0.0
-45°	27.0	18.8	14.0	9.1	5.9	3.0	0.0
-47.5°	22.8	17.7	13.1	8.5	5.6	2.8	0.0
-50°	21.0	16.6	12.2	8.0	5.4	2.7	0.0
-52.5°	19.6	15.4	11.2	7.6	5.1	2.6	0.0
-55°	18.1	14.2	10.3	7.1	4.8	2.4	0.0
-57.5°	16.6	12.9	9.3	6.7	4.5	2.3	0.0
-60°	15.0	11.6	8.3	6.2	4.2	2.1	0.0
-62.5°	13.4	10.3	7.6	5.8	3.9	1.9	0.0
-65°	11.8	9.0	7.0	5.3	3.5	1.8	0.0
-67.5°	10.2	7.9	6.3	4.8	3.2	1.6	0.0
-70°	8.5	7.1	5.7	4.3	2.9	1.4	0.0
-72.5°	7.4	6.2	5.0	3.8	2.5	1.3	0.0
-75°	6.4	5.4	4.3	3.3	2.2	1.1	0.0
-77.5°	5.4	4.5	3.6	2.7	1.8	0.9	0.0
-80°	4.3	3.6	2.9	2.2	1.5	0.7	0.0
-82.5°	3.3	2.7	2.2	1.6	1.1	0.5	0.0
-85°	2.2	1.8	1.5	1.1	0.7	0.4	0.0
-87.5°	1.1	0.9	0.7	0.5	0.4	0.2	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

