

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: P731279 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-80-4S-HEG**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731279 (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-08-0680N-40-80-4S-HEG
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 4S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

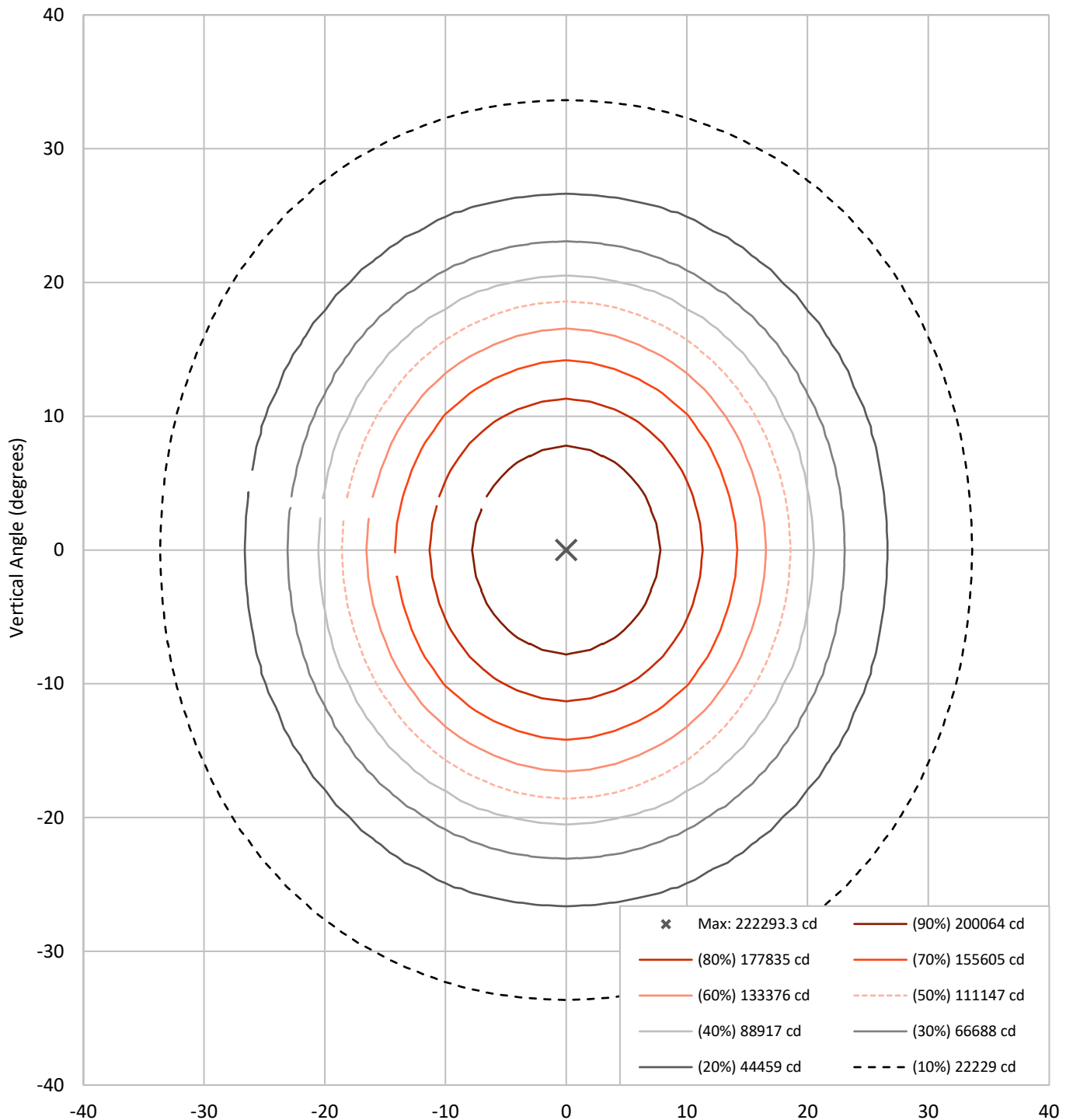
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	102657.1 lumens	Max Intensity:	222293.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	147.2 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:	53442.4 lumens	Field Lumens:	89774.2 lumens
Beam Efficiency:	52.1%	Field Efficiency:	87.5%

Input Watts (W): 697.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Candela Plot





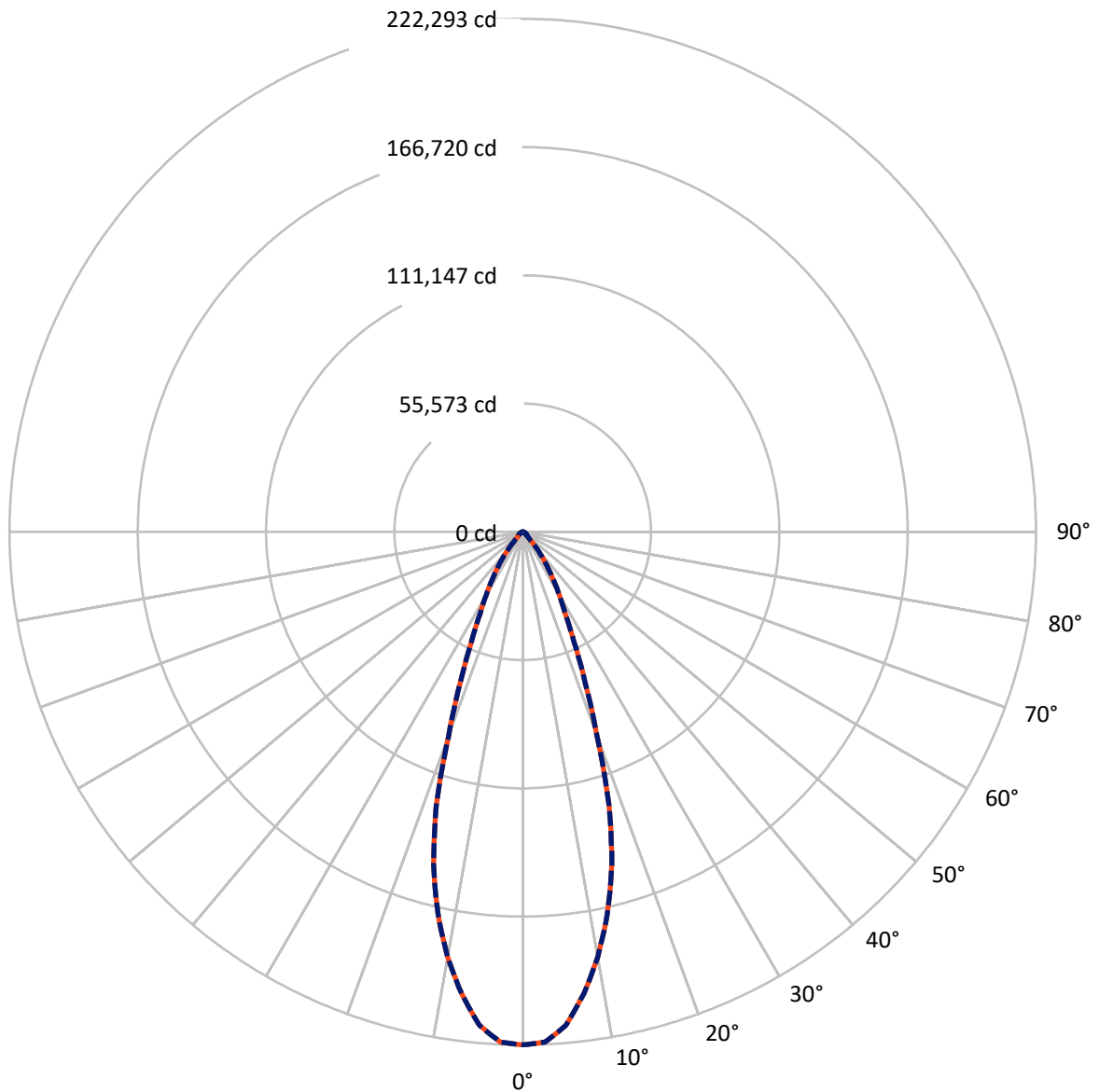
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Lumen Table

90																			
80	0.1	0.8		3.0		7.3		9.5		7.3		3.0		0.8		0.1			
70																			
60	0.4	0.5	1.8	5.1	10.7	17.3	23.2	26.5	26.5	23.2	17.3	10.7	5.1	1.8	0.5	0.4			
50		1.4	6.1	16.5	30.3	42.7	51.7	56.7	56.7	51.7	42.7	30.3	16.5	6.1	1.4				
40	1.0	3.2	13.5	30.8	47.8	66.4	95.4	125.8	125.8	95.4	66.4	47.8	30.8	13.5	3.2	1.0			
30		5.7	21.5	41.4	71.8	193.1	408.6	566.8	566.8	408.6	193.1	71.8	41.4	21.5	5.7				
20	2.1	8.4	27.2	52.0	175.8	549.4	1074.4	1597.6	1597.6	1074.4	549.4	175.8	52.0	27.2	8.4	2.1			
10		10.5	31.0	70.6	350.0	1011.6	2505.2	4112.5	4112.5	2505.2	1011.6	350.0	70.6	31.0	10.5				
0	2.6	11.6	32.9	91.0	471.0	1462.8	3996.3	6019.6	6019.6	3996.3	1462.8	471.0	91.0	32.9	11.6	2.6			
-10		11.6	32.9	91.0	471.0	1462.8	3996.3	6019.6	6019.6	3996.3	1462.8	471.0	91.0	32.9	11.6				
-20	2.1	10.5	31.0	70.6	350.0	1011.6	2505.2	4112.5	4112.5	2505.2	1011.6	350.0	70.6	31.0	10.5	2.1			
-30		8.4	27.2	52.0	175.8	549.4	1074.4	1597.6	1597.6	1074.4	549.4	175.8	52.0	27.2	8.4				
-40	1.0	5.7	21.5	41.4	71.8	193.1	408.6	566.8	566.8	408.6	193.1	71.8	41.4	21.5	5.7	1.0			
-50		3.2	13.5	30.8	47.8	66.4	95.4	125.8	125.8	95.4	66.4	47.8	30.8	13.5	3.2				
-60	0.4	1.4	6.1	16.5	30.3	42.7	51.7	56.7	56.7	51.7	42.7	30.3	16.5	6.1	1.4	0.4			
-70		0.5	1.8	5.1	10.7	17.3	23.2	26.5	26.5	23.2	17.3	10.7	5.1	1.8	0.5				
-80	0.1	0.8		3.0		7.3		9.5		7.3		3.0		0.8		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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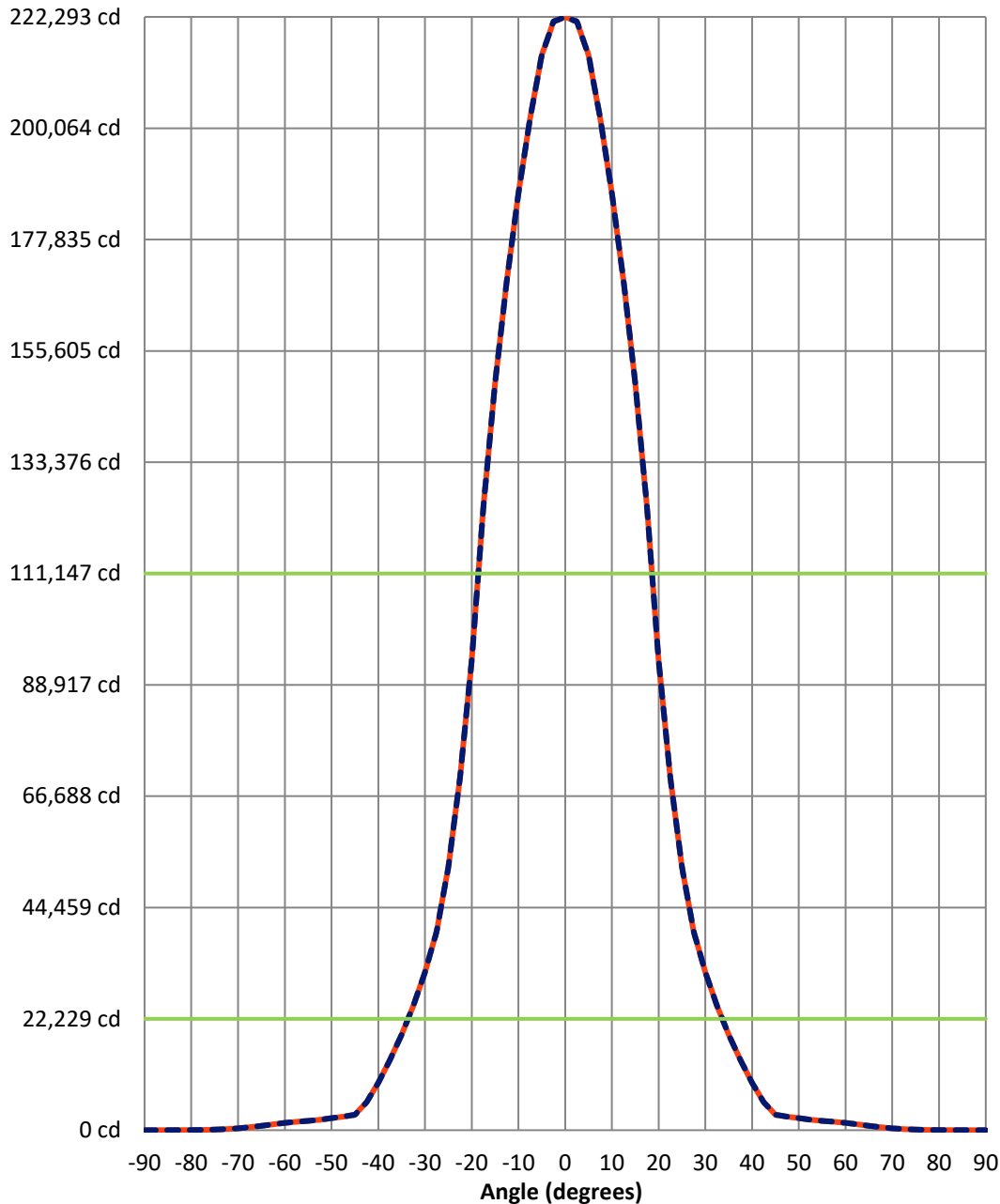
Luminous Intensity Polar Plot



— 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: 53442.4
Efficiency: 52.1%

Field:
H Angle: 67.2°
V Angle: 67.2°
Lumens: 89774.2
Efficiency: 87.5%

Spill:
Lumens: 12882.9
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	0.7	0.9	1.1	1.3	1.5	1.7	2.0	2.2
85°	0.0	0.4	0.9	1.3	1.8	2.2	2.6	3.1	3.5	3.9	4.3
82.5°	0.0	0.7	1.3	2.0	2.6	3.3	3.9	4.6	5.2	5.9	6.5
80°	0.0	0.9	1.8	2.6	3.5	4.4	5.3	6.1	7.0	7.8	8.7
77.5°	0.0	1.1	2.2	3.3	4.4	5.5	6.6	7.7	8.7	9.8	11.1
75°	0.0	1.3	2.6	3.9	5.3	6.6	7.9	9.2	10.6	12.6	14.7
72.5°	0.0	1.5	3.1	4.6	6.1	7.7	9.2	10.9	13.4	15.8	18.1
70°	0.0	1.7	3.5	5.2	7.0	8.7	10.6	13.4	16.1	18.9	21.6
67.5°	0.0	2.0	3.9	5.9	7.8	9.8	12.6	15.8	18.9	21.9	24.9
65°	0.0	2.2	4.3	6.5	8.7	11.1	14.7	18.1	21.6	24.9	30.5
62.5°	0.0	2.4	4.7	7.1	9.5	12.8	16.6	20.4	24.2	29.2	41.0
60°	0.0	2.5	5.1	7.7	10.3	14.4	18.6	22.7	26.8	38.6	51.4
57.5°	0.0	2.7	5.5	8.3	11.5	16.0	20.5	24.9	33.8	47.7	71.3
55°	0.0	2.9	5.9	8.8	12.7	17.5	22.3	27.1	41.7	59.5	95.4
52.5°	0.0	3.1	6.2	9.4	13.9	19.0	24.1	33.3	49.4	80.6	118.9
50°	0.0	3.3	6.6	9.9	15.1	20.5	25.9	39.8	60.0	101.1	149.5
47.5°	0.0	3.4	6.9	10.5	16.2	21.9	28.1	46.2	77.6	120.9	180.0
45°	0.0	3.6	7.2	11.3	17.3	23.2	33.3	52.3	94.5	147.1	209.5
42.5°	0.0	3.8	7.6	12.1	18.3	24.5	38.3	62.9	110.8	172.6	254.8
40°	0.0	3.9	7.9	12.8	19.3	25.7	43.0	76.5	128.3	196.9	301.0
37.5°	0.0	4.0	8.1	13.5	20.2	26.9	47.6	89.4	148.8	224.6	345.0
35°	0.0	4.2	8.4	14.2	21.1	29.6	51.9	101.6	168.2	261.9	393.8
32.5°	0.0	4.3	8.7	14.8	21.9	33.0	57.6	113.1	186.5	297.2	450.3
30°	0.0	4.4	8.9	15.4	22.7	36.1	66.8	124.8	203.6	330.2	503.4
27.5°	0.0	4.5	9.1	15.9	23.4	39.0	75.3	138.6	223.7	360.9	552.7
25°	0.0	4.6	9.3	16.4	24.1	41.7	83.1	151.4	248.7	397.3	598.7
22.5°	0.0	4.7	9.5	16.8	24.7	44.1	90.3	163.0	271.5	434.4	648.8
20°	0.0	4.8	9.7	17.3	25.2	46.3	96.7	173.5	292.0	467.9	694.1
17.5°	0.0	4.9	9.8	17.6	25.7	48.3	102.4	182.8	310.3	497.7	734.4
15°	0.0	4.9	9.9	17.9	26.1	50.0	107.4	190.9	326.2	523.6	769.5
12.5°	0.0	5.0	10.1	18.2	26.5	51.4	111.6	197.8	339.8	545.7	799.4
10°	0.0	5.0	10.1	18.4	26.8	52.6	115.1	203.5	350.9	563.9	824.1
7.5°	0.0	5.1	10.2	18.6	27.0	53.5	117.8	207.9	359.6	578.1	843.3
5°	0.0	5.1	10.3	18.7	27.2	54.2	119.7	211.1	365.8	588.3	857.1
2.5°	0.0	5.1	10.3	18.8	27.3	54.6	120.9	213.0	369.6	594.4	865.3
0°	0.0	5.1	10.3	18.8	27.3	54.6	120.9	213.0	369.6	594.4	865.3
-2.5°	0.0	5.1	10.3	18.8	27.3	54.6	120.9	213.0	369.6	594.4	865.3
-5°	0.0	5.1	10.3	18.7	27.2	54.2	119.7	211.1	365.8	588.3	857.1
-7.5°	0.0	5.1	10.2	18.6	27.0	53.5	117.8	207.9	359.6	578.1	843.3
-10°	0.0	5.0	10.1	18.4	26.8	52.6	115.1	203.5	350.9	563.9	824.1
-12.5°	0.0	5.0	10.1	18.2	26.5	51.4	111.6	197.8	339.8	545.7	799.4
-15°	0.0	4.9	9.9	17.9	26.1	50.0	107.4	190.9	326.2	523.6	769.5
-17.5°	0.0	4.9	9.8	17.6	25.7	48.3	102.4	182.8	310.3	497.7	734.4
-20°	0.0	4.8	9.7	17.3	25.2	46.3	96.7	173.5	292.0	467.9	694.1



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 CATALOG NUMBER: EPH-LS-08-0680N-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	4.7	9.5	16.8	24.7	44.1	90.3	163.0	271.5	434.4	648.8
-25°	0.0	4.6	9.3	16.4	24.1	41.7	83.1	151.4	248.7	397.3	598.7
-27.5°	0.0	4.5	9.1	15.9	23.4	39.0	75.3	138.6	223.7	360.9	552.7
-30°	0.0	4.4	8.9	15.4	22.7	36.1	66.8	124.8	203.6	330.2	503.4
-32.5°	0.0	4.3	8.7	14.8	21.9	33.0	57.6	113.1	186.5	297.2	450.3
-35°	0.0	4.2	8.4	14.2	21.1	29.6	51.9	101.6	168.2	261.9	393.8
-37.5°	0.0	4.0	8.1	13.5	20.2	26.9	47.6	89.4	148.8	224.6	345.0
-40°	0.0	3.9	7.9	12.8	19.3	25.7	43.0	76.5	128.3	196.9	301.0
-42.5°	0.0	3.8	7.6	12.1	18.3	24.5	38.3	62.9	110.8	172.6	254.8
-45°	0.0	3.6	7.2	11.3	17.3	23.2	33.3	52.3	94.5	147.1	209.5
-47.5°	0.0	3.4	6.9	10.5	16.2	21.9	28.1	46.2	77.6	120.9	180.0
-50°	0.0	3.3	6.6	9.9	15.1	20.5	25.9	39.8	60.0	101.1	149.5
-52.5°	0.0	3.1	6.2	9.4	13.9	19.0	24.1	33.3	49.4	80.6	118.9
-55°	0.0	2.9	5.9	8.8	12.7	17.5	22.3	27.1	41.7	59.5	95.4
-57.5°	0.0	2.7	5.5	8.3	11.5	16.0	20.5	24.9	33.8	47.7	71.3
-60°	0.0	2.5	5.1	7.7	10.3	14.4	18.6	22.7	26.8	38.6	51.4
-62.5°	0.0	2.4	4.7	7.1	9.5	12.8	16.6	20.4	24.2	29.2	41.0
-65°	0.0	2.2	4.3	6.5	8.7	11.1	14.7	18.1	21.6	24.9	30.5
-67.5°	0.0	2.0	3.9	5.9	7.8	9.8	12.6	15.8	18.9	21.9	24.9
-70°	0.0	1.7	3.5	5.2	7.0	8.7	10.6	13.4	16.1	18.9	21.6
-72.5°	0.0	1.5	3.1	4.6	6.1	7.7	9.2	10.9	13.4	15.8	18.1
-75°	0.0	1.3	2.6	3.9	5.3	6.6	7.9	9.2	10.6	12.6	14.7
-77.5°	0.0	1.1	2.2	3.3	4.4	5.5	6.6	7.7	8.7	9.8	11.1
-80°	0.0	0.9	1.8	2.6	3.5	4.4	5.3	6.1	7.0	7.8	8.7
-82.5°	0.0	0.7	1.3	2.0	2.6	3.3	3.9	4.6	5.2	5.9	6.5
-85°	0.0	0.4	0.9	1.3	1.8	2.2	2.6	3.1	3.5	3.9	4.3
-87.5°	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.5	1.7	2.0	2.2
-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°	2.4	2.5	2.7	2.9	3.1	3.3	3.4	3.6	3.8	3.9	4.0
85°	4.7	5.1	5.5	5.9	6.2	6.6	6.9	7.2	7.6	7.9	8.1
82.5°	7.1	7.7	8.3	8.8	9.4	9.9	10.5	11.3	12.1	12.8	13.5
80°	9.5	10.3	11.5	12.7	13.9	15.1	16.2	17.3	18.3	19.3	20.2
77.5°	12.8	14.4	16.0	17.5	19.0	20.5	21.9	23.2	24.5	25.7	26.9
75°	16.6	18.6	20.5	22.3	24.1	25.9	28.1	33.3	38.3	43.0	47.6
72.5°	20.4	22.7	24.9	27.1	33.3	39.8	46.2	52.3	62.9	76.5	89.4
70°	24.2	26.8	33.8	41.7	49.4	60.0	77.6	94.5	110.8	128.3	148.8
67.5°	29.2	38.6	47.7	59.5	80.6	101.1	120.9	147.1	172.6	196.9	224.6
65°	41.0	51.4	71.3	95.4	118.9	149.5	180.0	209.5	254.8	301.0	345.0
62.5°	52.6	77.3	104.4	134.5	170.2	205.0	256.2	311.5	364.7	435.3	505.2
60°	77.3	107.4	142.9	182.8	227.5	292.0	354.6	434.4	518.0	598.7	691.0
57.5°	104.4	142.9	187.0	241.9	313.7	389.2	486.7	581.0	687.4	792.6	896.0
55°	134.5	182.8	241.9	321.0	410.2	518.3	628.9	751.5	870.1	996.9	1118.3
52.5°	170.2	227.5	313.7	410.2	528.9	654.6	790.4	928.2	1070.0	1205.1	1330.9
50°	205.0	292.0	389.2	518.3	654.6	803.4	957.4	1114.2	1262.2	1402.8	1519.9
47.5°	256.2	354.6	486.7	628.9	790.4	957.4	1129.0	1291.0	1446.5	1564.8	1675.3
45°	311.5	434.4	581.0	751.5	928.2	1114.2	1291.0	1461.1	1587.5	1703.9	1795.4
42.5°	364.7	518.0	687.4	870.1	1070.0	1262.2	1446.5	1587.5	1712.8	1813.6	1928.9
40°	435.3	598.7	792.6	996.9	1205.1	1402.8	1564.8	1703.9	1813.6	1941.3	2078.2
37.5°	505.2	691.0	896.0	1118.3	1330.9	1519.9	1675.3	1795.4	1928.9	2078.2	2279.5
35°	571.6	778.8	1002.7	1231.5	1450.9	1618.6	1759.3	1892.2	2053.1	2261.4	2469.3
32.5°	642.0	861.8	1103.6	1336.8	1540.4	1706.0	1837.6	2003.4	2207.4	2436.3	2638.6
30°	712.8	947.8	1197.4	1436.0	1622.6	1774.8	1930.0	2118.6	2366.5	2588.1	2839.0
27.5°	778.8	1028.8	1282.5	1512.8	1695.9	1839.4	2022.3	2258.6	2505.0	2744.8	3049.6
25°	839.7	1103.6	1361.3	1578.5	1751.3	1913.7	2117.9	2389.2	2630.6	2929.6	4060.3
22.5°	898.6	1172.0	1433.5	1638.8	1802.3	1987.0	2229.7	2499.0	2765.4	3143.5	5213.9
20°	954.7	1231.5	1489.9	1691.2	1848.5	2053.6	2331.4	2597.4	2911.2	4127.8	6665.1
17.5°	1004.6	1284.5	1534.5	1729.1	1900.9	2124.9	2421.1	2685.7	3042.4	5015.8	8161.5
15°	1048.2	1330.9	1573.5	1762.3	1949.0	2198.7	2492.8	2788.5	3500.8	5927.1	9495.2
12.5°	1085.3	1370.3	1606.8	1790.6	1990.1	2261.8	2554.2	2880.2	4124.1	6982.6	10847.3
10°	1115.9	1402.8	1634.2	1814.0	2024.0	2314.0	2605.0	2956.1	4641.0	7859.6	11973.2
7.5°	1139.8	1428.3	1655.6	1832.3	2050.5	2354.8	2644.9	3015.7	5047.5	8550.4	12861.8
5°	1156.9	1446.5	1671.0	1845.4	2069.6	2384.2	2673.6	3058.6	5340.3	9048.6	13503.6
2.5°	1167.2	1457.4	1680.2	1853.3	2081.1	2401.9	2690.8	3084.5	5517.0	9349.6	13891.7
0°	1170.6	1461.1	1683.3	1855.9	2084.9	2407.8	2696.6	3093.1	5576.1	9450.2	14021.5
-2.5°	1167.2	1457.4	1680.2	1853.3	2081.1	2401.9	2690.8	3084.5	5517.0	9349.6	13891.7
-5°	1156.9	1446.5	1671.0	1845.4	2069.6	2384.2	2673.6	3058.6	5340.3	9048.6	13503.6
-7.5°	1139.8	1428.3	1655.6	1832.3	2050.5	2354.8	2644.9	3015.7	5047.5	8550.4	12861.8
-10°	1115.9	1402.8	1634.2	1814.0	2024.0	2314.0	2605.0	2956.1	4641.0	7859.6	11973.2
-12.5°	1085.3	1370.3	1606.8	1790.6	1990.1	2261.8	2554.2	2880.2	4124.1	6982.6	10847.3
-15°	1048.2	1330.9	1573.5	1762.3	1949.0	2198.7	2492.8	2788.5	3500.8	5927.1	9495.2
-17.5°	1004.6	1284.5	1534.5	1729.1	1900.9	2124.9	2421.1	2685.7	3042.4	5015.8	8161.5
-20°	954.7	1231.5	1489.9	1691.2	1848.5	2053.6	2331.4	2597.4	2911.2	4127.8	6665.1



REPORT NUMBER: P731279 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-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°	898.6	1172.0	1433.5	1638.8	1802.3	1987.0	2229.7	2499.0	2765.4	3143.5	5213.9
-25°	839.7	1103.6	1361.3	1578.5	1751.3	1913.7	2117.9	2389.2	2630.6	2929.6	4060.3
-27.5°	778.8	1028.8	1282.5	1512.8	1695.9	1839.4	2022.3	2258.6	2505.0	2744.8	3049.6
-30°	712.8	947.8	1197.4	1436.0	1622.6	1774.8	1930.0	2118.6	2366.5	2588.1	2839.0
-32.5°	642.0	861.8	1103.6	1336.8	1540.4	1706.0	1837.6	2003.4	2207.4	2436.3	2638.6
-35°	571.6	778.8	1002.7	1231.5	1450.9	1618.6	1759.3	1892.2	2053.1	2261.4	2469.3
-37.5°	505.2	691.0	896.0	1118.3	1330.9	1519.9	1675.3	1795.4	1928.9	2078.2	2279.5
-40°	435.3	598.7	792.6	996.9	1205.1	1402.8	1564.8	1703.9	1813.6	1941.3	2078.2
-42.5°	364.7	518.0	687.4	870.1	1070.0	1262.2	1446.5	1587.5	1712.8	1813.6	1928.9
-45°	311.5	434.4	581.0	751.5	928.2	1114.2	1291.0	1461.1	1587.5	1703.9	1795.4
-47.5°	256.2	354.6	486.7	628.9	790.4	957.4	1129.0	1291.0	1446.5	1564.8	1675.3
-50°	205.0	292.0	389.2	518.3	654.6	803.4	957.4	1114.2	1262.2	1402.8	1519.9
-52.5°	170.2	227.5	313.7	410.2	528.9	654.6	790.4	928.2	1070.0	1205.1	1330.9
-55°	134.5	182.8	241.9	321.0	410.2	518.3	628.9	751.5	870.1	996.9	1118.3
-57.5°	104.4	142.9	187.0	241.9	313.7	389.2	486.7	581.0	687.4	792.6	896.0
-60°	77.3	107.4	142.9	182.8	227.5	292.0	354.6	434.4	518.0	598.7	691.0
-62.5°	52.6	77.3	104.4	134.5	170.2	205.0	256.2	311.5	364.7	435.3	505.2
-65°	41.0	51.4	71.3	95.4	118.9	149.5	180.0	209.5	254.8	301.0	345.0
-67.5°	29.2	38.6	47.7	59.5	80.6	101.1	120.9	147.1	172.6	196.9	224.6
-70°	24.2	26.8	33.8	41.7	49.4	60.0	77.6	94.5	110.8	128.3	148.8
-72.5°	20.4	22.7	24.9	27.1	33.3	39.8	46.2	52.3	62.9	76.5	89.4
-75°	16.6	18.6	20.5	22.3	24.1	25.9	28.1	33.3	38.3	43.0	47.6
-77.5°	12.8	14.4	16.0	17.5	19.0	20.5	21.9	23.2	24.5	25.7	26.9
-80°	9.5	10.3	11.5	12.7	13.9	15.1	16.2	17.3	18.3	19.3	20.2
-82.5°	7.1	7.7	8.3	8.8	9.4	9.9	10.5	11.3	12.1	12.8	13.5
-85°	4.7	5.1	5.5	5.9	6.2	6.6	6.9	7.2	7.6	7.9	8.1
-87.5°	2.4	2.5	2.7	2.9	3.1	3.3	3.4	3.6	3.8	3.9	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: P731279 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
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	4.3	4.4	4.5	4.6	4.7	4.8	4.9	4.9	5.0	5.0
85°	8.4	8.7	8.9	9.1	9.3	9.5	9.7	9.8	9.9	10.1	10.1
82.5°	14.2	14.8	15.4	15.9	16.4	16.8	17.3	17.6	17.9	18.2	18.4
80°	21.1	21.9	22.7	23.4	24.1	24.7	25.2	25.7	26.1	26.5	26.8
77.5°	29.6	33.0	36.1	39.0	41.7	44.1	46.3	48.3	50.0	51.4	52.6
75°	51.9	57.6	66.8	75.3	83.1	90.3	96.7	102.4	107.4	111.6	115.1
72.5°	101.6	113.1	124.8	138.6	151.4	163.0	173.5	182.8	190.9	197.8	203.5
70°	168.2	186.5	203.6	223.7	248.7	271.5	292.0	310.3	326.2	339.8	350.9
67.5°	261.9	297.2	330.2	360.9	397.3	434.4	467.9	497.7	523.6	545.7	563.9
65°	393.8	450.3	503.4	552.7	598.7	648.8	694.1	734.4	769.5	799.4	824.1
62.5°	571.6	642.0	712.8	778.8	839.7	898.6	954.7	1004.6	1048.2	1085.3	1115.9
60°	778.8	861.8	947.8	1028.8	1103.6	1172.0	1231.5	1284.5	1330.9	1370.3	1402.8
57.5°	1002.7	1103.6	1197.4	1282.5	1361.3	1433.5	1489.9	1534.5	1573.5	1606.8	1634.2
55°	1231.5	1336.8	1436.0	1512.8	1578.5	1638.8	1691.2	1729.1	1762.3	1790.6	1814.0
52.5°	1450.9	1540.4	1622.6	1695.9	1751.3	1802.3	1848.5	1900.9	1949.0	1990.1	2024.0
50°	1618.6	1706.0	1774.8	1839.4	1913.7	1987.0	2053.6	2124.9	2198.7	2261.8	2314.0
47.5°	1759.3	1837.6	1930.0	2022.3	2117.9	2229.7	2331.4	2421.1	2492.8	2554.2	2605.0
45°	1892.2	2003.4	2118.6	2258.6	2389.2	2499.0	2597.4	2685.7	2788.5	2880.2	2956.1
42.5°	2053.1	2207.4	2366.5	2505.0	2630.6	2765.4	2911.2	3042.4	3500.8	4124.1	4641.0
40°	2261.4	2436.3	2588.1	2744.8	2929.6	3143.5	4127.8	5015.8	5927.1	6982.6	7859.6
37.5°	2469.3	2638.6	2839.0	3049.6	4060.3	5213.9	6665.1	8161.5	9495.2	10847.3	11973.2
35°	2655.6	2886.7	3278.5	4684.0	6252.7	8183.7	10056.4	11962.9	13658.6	15239.4	16590.0
32.5°	2886.7	3432.3	4999.9	7010.8	9219.6	11620.0	13879.7	16132.3	18156.0	20039.7	21727.1
30°	3278.5	4999.9	7265.8	9798.0	12577.1	15310.2	17985.9	20633.9	23147.4	25425.9	27571.2
27.5°	4684.0	7010.8	9798.0	12899.5	16044.6	19134.1	22427.3	25558.4	28731.6	31515.0	34379.8
25°	6252.7	9219.6	12577.1	16044.6	19573.8	23341.3	27213.4	31017.3	35110.4	38821.2	43266.9
22.5°	8183.7	11620.0	15310.2	19134.1	23341.3	27773.0	32331.5	37342.0	43175.7	49557.2	55992.6
20°	10056.4	13879.7	17985.9	22427.3	27213.4	32331.5	38098.9	45674.4	53863.8	63620.4	72563.1
17.5°	11962.9	16132.3	20633.9	25558.4	31017.3	37342.0	45674.4	55728.7	67575.0	80782.6	93091.9
15°	13658.6	18156.0	23147.4	28731.6	35110.4	43175.7	53863.8	67575.0	83601.9	100756.9	118743.4
12.5°	15239.4	20039.7	25425.9	31515.0	38821.2	49557.2	63620.4	80782.6	100756.9	123112.0	139653.1
10°	16590.0	21727.1	27571.2	34379.8	43266.9	55992.6	72563.1	93091.9	118743.4	139653.1	156695.2
7.5°	17658.2	23065.4	29278.5	36671.6	47242.9	62142.7	81583.9	106145.0	132007.8	152959.5	169715.3
5°	18431.3	24036.1	30520.2	38344.1	50157.3	66676.8	88285.8	116112.9	141279.9	162084.6	179001.4
2.5°	18899.2	24624.5	31274.4	39362.5	51937.6	69458.4	92421.3	122314.3	147117.8	167683.9	184949.4
0°	19055.9	24821.7	31527.4	39704.5	52536.6	70396.3	93820.1	124421.3	149114.9	169540.5	187052.4
-2.5°	18899.2	24624.5	31274.4	39362.5	51937.6	69458.4	92421.3	122314.3	147117.8	167683.9	184949.4
-5°	18431.3	24036.1	30520.2	38344.1	50157.3	66676.8	88285.8	116112.9	141279.9	162084.6	179001.4
-7.5°	17658.2	23065.4	29278.5	36671.6	47242.9	62142.7	81583.9	106145.0	132007.8	152959.5	169715.3
-10°	16590.0	21727.1	27571.2	34379.8	43266.9	55992.6	72563.1	93091.9	118743.4	139653.1	156695.2
-12.5°	15239.4	20039.7	25425.9	31515.0	38821.2	49557.2	63620.4	80782.6	100756.9	123112.0	139653.1
-15°	13658.6	18156.0	23147.4	28731.6	35110.4	43175.7	53863.8	67575.0	83601.9	100756.9	118743.4
-17.5°	11962.9	16132.3	20633.9	25558.4	31017.3	37342.0	45674.4	55728.7	67575.0	80782.6	93091.9
-20°	10056.4	13879.7	17985.9	22427.3	27213.4	32331.5	38098.9	45674.4	53863.8	63620.4	72563.1



REPORT NUMBER: P731279 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	8183.7	11620.0	15310.2	19134.1	23341.3	27773.0	32331.5	37342.0	43175.7	49557.2	55992.6
-25°	6252.7	9219.6	12577.1	16044.6	19573.8	23341.3	27213.4	31017.3	35110.4	38821.2	43266.9
-27.5°	4684.0	7010.8	9798.0	12899.5	16044.6	19134.1	22427.3	25558.4	28731.6	31515.0	34379.8
-30°	3278.5	4999.9	7265.8	9798.0	12577.1	15310.2	17985.9	20633.9	23147.4	25425.9	27571.2
-32.5°	2886.7	3432.3	4999.9	7010.8	9219.6	11620.0	13879.7	16132.3	18156.0	20039.7	21727.1
-35°	2655.6	2886.7	3278.5	4684.0	6252.7	8183.7	10056.4	11962.9	13658.6	15239.4	16590.0
-37.5°	2469.3	2638.6	2839.0	3049.6	4060.3	5213.9	6665.1	8161.5	9495.2	10847.3	11973.2
-40°	2261.4	2436.3	2588.1	2744.8	2929.6	3143.5	4127.8	5015.8	5927.1	6982.6	7859.6
-42.5°	2053.1	2207.4	2366.5	2505.0	2630.6	2765.4	2911.2	3042.4	3500.8	4124.1	4641.0
-45°	1892.2	2003.4	2118.6	2258.6	2389.2	2499.0	2597.4	2685.7	2788.5	2880.2	2956.1
-47.5°	1759.3	1837.6	1930.0	2022.3	2117.9	2229.7	2331.4	2421.1	2492.8	2554.2	2605.0
-50°	1618.6	1706.0	1774.8	1839.4	1913.7	1987.0	2053.6	2124.9	2198.7	2261.8	2314.0
-52.5°	1450.9	1540.4	1622.6	1695.9	1751.3	1802.3	1848.5	1900.9	1949.0	1990.1	2024.0
-55°	1231.5	1336.8	1436.0	1512.8	1578.5	1638.8	1691.2	1729.1	1762.3	1790.6	1814.0
-57.5°	1002.7	1103.6	1197.4	1282.5	1361.3	1433.5	1489.9	1534.5	1573.5	1606.8	1634.2
-60°	778.8	861.8	947.8	1028.8	1103.6	1172.0	1231.5	1284.5	1330.9	1370.3	1402.8
-62.5°	571.6	642.0	712.8	778.8	839.7	898.6	954.7	1004.6	1048.2	1085.3	1115.9
-65°	393.8	450.3	503.4	552.7	598.7	648.8	694.1	734.4	769.5	799.4	824.1
-67.5°	261.9	297.2	330.2	360.9	397.3	434.4	467.9	497.7	523.6	545.7	563.9
-70°	168.2	186.5	203.6	223.7	248.7	271.5	292.0	310.3	326.2	339.8	350.9
-72.5°	101.6	113.1	124.8	138.6	151.4	163.0	173.5	182.8	190.9	197.8	203.5
-75°	51.9	57.6	66.8	75.3	83.1	90.3	96.7	102.4	107.4	111.6	115.1
-77.5°	29.6	33.0	36.1	39.0	41.7	44.1	46.3	48.3	50.0	51.4	52.6
-80°	21.1	21.9	22.7	23.4	24.1	24.7	25.2	25.7	26.1	26.5	26.8
-82.5°	14.2	14.8	15.4	15.9	16.4	16.8	17.3	17.6	17.9	18.2	18.4
-85°	8.4	8.7	8.9	9.1	9.3	9.5	9.7	9.8	9.9	10.1	10.1
-87.5°	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	4.9	5.0	5.0
-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: P731279 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-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°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.0	5.0	4.9	4.9
85°	10.2	10.3	10.3	10.3	10.3	10.3	10.2	10.1	10.1	9.9	9.8
82.5°	18.6	18.7	18.8	18.8	18.8	18.7	18.6	18.4	18.2	17.9	17.6
80°	27.0	27.2	27.3	27.3	27.3	27.2	27.0	26.8	26.5	26.1	25.7
77.5°	53.5	54.2	54.6	54.7	54.6	54.2	53.5	52.6	51.4	50.0	48.3
75°	117.8	119.7	120.9	121.3	120.9	119.7	117.8	115.1	111.6	107.4	102.4
72.5°	207.9	211.1	213.0	213.6	213.0	211.1	207.9	203.5	197.8	190.9	182.8
70°	359.6	365.8	369.6	370.8	369.6	365.8	359.6	350.9	339.8	326.2	310.3
67.5°	578.1	588.3	594.4	596.4	594.4	588.3	578.1	563.9	545.7	523.6	497.7
65°	843.3	857.1	865.3	868.1	865.3	857.1	843.3	824.1	799.4	769.5	734.4
62.5°	1139.8	1156.9	1167.2	1170.6	1167.2	1156.9	1139.8	1115.9	1085.3	1048.2	1004.6
60°	1428.3	1446.5	1457.4	1461.1	1457.4	1446.5	1428.3	1402.8	1370.3	1330.9	1284.5
57.5°	1655.6	1671.0	1680.2	1683.3	1680.2	1671.0	1655.6	1634.2	1606.8	1573.5	1534.5
55°	1832.3	1845.4	1853.3	1855.9	1853.3	1845.4	1832.3	1814.0	1790.6	1762.3	1729.1
52.5°	2050.5	2069.6	2081.1	2084.9	2081.1	2069.6	2050.5	2024.0	1990.1	1949.0	1900.9
50°	2354.8	2384.2	2401.9	2407.8	2401.9	2384.2	2354.8	2314.0	2261.8	2198.7	2124.9
47.5°	2644.9	2673.6	2690.8	2696.6	2690.8	2673.6	2644.9	2605.0	2554.2	2492.8	2421.1
45°	3015.7	3058.6	3084.5	3093.1	3084.5	3058.6	3015.7	2956.1	2880.2	2788.5	2685.7
42.5°	5047.5	5340.3	5517.0	5576.1	5517.0	5340.3	5047.5	4641.0	4124.1	3500.8	3042.4
40°	8550.4	9048.6	9349.6	9450.2	9349.6	9048.6	8550.4	7859.6	6982.6	5927.1	5015.8
37.5°	12861.8	13503.6	13891.7	14021.5	13891.7	13503.6	12861.8	11973.2	10847.3	9495.2	8161.5
35°	17658.2	18431.3	18899.2	19055.9	18899.2	18431.3	17658.2	16590.0	15239.4	13658.6	11962.9
32.5°	23065.4	24036.1	24624.5	24821.7	24624.5	24036.1	23065.4	21727.1	20039.7	18156.0	16132.3
30°	29278.5	30520.2	31274.4	31527.4	31274.4	30520.2	29278.5	27571.2	25425.9	23147.4	20633.9
27.5°	36671.6	38344.1	39362.5	39704.5	39362.5	38344.1	36671.6	34379.8	31515.0	28731.6	25558.4
25°	47242.9	50157.3	51937.6	52536.6	51937.6	50157.3	47242.9	43266.9	38821.2	35110.4	31017.3
22.5°	62142.7	66676.8	69458.4	70396.3	69458.4	66676.8	62142.7	55992.6	49557.2	43175.7	37342.0
20°	81583.9	88285.8	92421.3	93820.1	92421.3	88285.8	81583.9	72563.1	63620.4	53863.8	45674.4
17.5°	106145.0	116112.9	122314.3	124421.3	122314.3	116112.9	106145.0	93091.9	80782.6	67575.0	55728.7
15°	132007.8	141279.9	147117.8	149114.9	147117.8	141279.9	132007.8	118743.4	100756.9	83601.9	67575.0
12.5°	152959.5	162084.6	167683.9	169540.5	167683.9	162084.6	152959.5	139653.1	123112.0	100756.9	80782.6
10°	169715.3	179001.4	184949.4	187052.4	184949.4	179001.4	169715.3	156695.2	139653.1	118743.4	93091.9
7.5°	182970.4	193451.6	199799.8	202059.1	199799.8	193451.6	182970.4	169715.3	152959.5	132007.8	106145.0
5°	193451.6	204486.3	212000.2	214644.2	212000.2	204486.3	193451.6	179001.4	162084.6	141279.9	116112.9
2.5°	199799.8	212000.2	219258.7	221344.0	219258.7	212000.2	199799.8	184949.4	167683.9	147117.8	122314.3
0°	202059.1	214644.2	221344.0	222293.3	221344.0	214644.2	202059.1	187052.4	169540.5	149114.9	124421.3
-2.5°	199799.8	212000.2	219258.7	221344.0	219258.7	212000.2	199799.8	184949.4	167683.9	147117.8	122314.3
-5°	193451.6	204486.3	212000.2	214644.2	212000.2	204486.3	193451.6	179001.4	162084.6	141279.9	116112.9
-7.5°	182970.4	193451.6	199799.8	202059.1	199799.8	193451.6	182970.4	169715.3	152959.5	132007.8	106145.0
-10°	169715.3	179001.4	184949.4	187052.4	184949.4	179001.4	169715.3	156695.2	139653.1	118743.4	93091.9
-12.5°	152959.5	162084.6	167683.9	169540.5	167683.9	162084.6	152959.5	139653.1	123112.0	100756.9	80782.6
-15°	132007.8	141279.9	147117.8	149114.9	147117.8	141279.9	132007.8	118743.4	100756.9	83601.9	67575.0
-17.5°	106145.0	116112.9	122314.3	124421.3	122314.3	116112.9	106145.0	93091.9	80782.6	67575.0	55728.7
-20°	81583.9	88285.8	92421.3	93820.1	92421.3	88285.8	81583.9	72563.1	63620.4	53863.8	45674.4



REPORT NUMBER: P731279 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	62142.7	66676.8	69458.4	70396.3	69458.4	66676.8	62142.7	55992.6	49557.2	43175.7	37342.0
-25°	47242.9	50157.3	51937.6	52536.6	51937.6	50157.3	47242.9	43266.9	38821.2	35110.4	31017.3
-27.5°	36671.6	38344.1	39362.5	39704.5	39362.5	38344.1	36671.6	34379.8	31515.0	28731.6	25558.4
-30°	29278.5	30520.2	31274.4	31527.4	31274.4	30520.2	29278.5	27571.2	25425.9	23147.4	20633.9
-32.5°	23065.4	24036.1	24624.5	24821.7	24624.5	24036.1	23065.4	21727.1	20039.7	18156.0	16132.3
-35°	17658.2	18431.3	18899.2	19055.9	18899.2	18431.3	17658.2	16590.0	15239.4	13658.6	11962.9
-37.5°	12861.8	13503.6	13891.7	14021.5	13891.7	13503.6	12861.8	11973.2	10847.3	9495.2	8161.5
-40°	8550.4	9048.6	9349.6	9450.2	9349.6	9048.6	8550.4	7859.6	6982.6	5927.1	5015.8
-42.5°	5047.5	5340.3	5517.0	5576.1	5517.0	5340.3	5047.5	4641.0	4124.1	3500.8	3042.4
-45°	3015.7	3058.6	3084.5	3093.1	3084.5	3058.6	3015.7	2956.1	2880.2	2788.5	2685.7
-47.5°	2644.9	2673.6	2690.8	2696.6	2690.8	2673.6	2644.9	2605.0	2554.2	2492.8	2421.1
-50°	2354.8	2384.2	2401.9	2407.8	2401.9	2384.2	2354.8	2314.0	2261.8	2198.7	2124.9
-52.5°	2050.5	2069.6	2081.1	2084.9	2081.1	2069.6	2050.5	2024.0	1990.1	1949.0	1900.9
-55°	1832.3	1845.4	1853.3	1855.9	1853.3	1845.4	1832.3	1814.0	1790.6	1762.3	1729.1
-57.5°	1655.6	1671.0	1680.2	1683.3	1680.2	1671.0	1655.6	1634.2	1606.8	1573.5	1534.5
-60°	1428.3	1446.5	1457.4	1461.1	1457.4	1446.5	1428.3	1402.8	1370.3	1330.9	1284.5
-62.5°	1139.8	1156.9	1167.2	1170.6	1167.2	1156.9	1139.8	1115.9	1085.3	1048.2	1004.6
-65°	843.3	857.1	865.3	868.1	865.3	857.1	843.3	824.1	799.4	769.5	734.4
-67.5°	578.1	588.3	594.4	596.4	594.4	588.3	578.1	563.9	545.7	523.6	497.7
-70°	359.6	365.8	369.6	370.8	369.6	365.8	359.6	350.9	339.8	326.2	310.3
-72.5°	207.9	211.1	213.0	213.6	213.0	211.1	207.9	203.5	197.8	190.9	182.8
-75°	117.8	119.7	120.9	121.3	120.9	119.7	117.8	115.1	111.6	107.4	102.4
-77.5°	53.5	54.2	54.6	54.7	54.6	54.2	53.5	52.6	51.4	50.0	48.3
-80°	27.0	27.2	27.3	27.3	27.3	27.2	27.0	26.8	26.5	26.1	25.7
-82.5°	18.6	18.7	18.8	18.8	18.8	18.7	18.6	18.4	18.2	17.9	17.6
-85°	10.2	10.3	10.3	10.3	10.3	10.3	10.2	10.1	10.1	9.9	9.8
-87.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.0	5.0	4.9	4.9
-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°	4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.0	3.9	3.8	3.6
85°	9.7	9.5	9.3	9.1	8.9	8.7	8.4	8.1	7.9	7.6	7.2
82.5°	17.3	16.8	16.4	15.9	15.4	14.8	14.2	13.5	12.8	12.1	11.3
80°	25.2	24.7	24.1	23.4	22.7	21.9	21.1	20.2	19.3	18.3	17.3
77.5°	46.3	44.1	41.7	39.0	36.1	33.0	29.6	26.9	25.7	24.5	23.2
75°	96.7	90.3	83.1	75.3	66.8	57.6	51.9	47.6	43.0	38.3	33.3
72.5°	173.5	163.0	151.4	138.6	124.8	113.1	101.6	89.4	76.5	62.9	52.3
70°	292.0	271.5	248.7	223.7	203.6	186.5	168.2	148.8	128.3	110.8	94.5
67.5°	467.9	434.4	397.3	360.9	330.2	297.2	261.9	224.6	196.9	172.6	147.1
65°	694.1	648.8	598.7	552.7	503.4	450.3	393.8	345.0	301.0	254.8	209.5
62.5°	954.7	898.6	839.7	778.8	712.8	642.0	571.6	505.2	435.3	364.7	311.5
60°	1231.5	1172.0	1103.6	1028.8	947.8	861.8	778.8	691.0	598.7	518.0	434.4
57.5°	1489.9	1433.5	1361.3	1282.5	1197.4	1103.6	1002.7	896.0	792.6	687.4	581.0
55°	1691.2	1638.8	1578.5	1512.8	1436.0	1336.8	1231.5	1118.3	996.9	870.1	751.5
52.5°	1848.5	1802.3	1751.3	1695.9	1622.6	1540.4	1450.9	1330.9	1205.1	1070.0	928.2
50°	2053.6	1987.0	1913.7	1839.4	1774.8	1706.0	1618.6	1519.9	1402.8	1262.2	1114.2
47.5°	2331.4	2229.7	2117.9	2022.3	1930.0	1837.6	1759.3	1675.3	1564.8	1446.5	1291.0
45°	2597.4	2499.0	2389.2	2258.6	2118.6	2003.4	1892.2	1795.4	1703.9	1587.5	1461.1
42.5°	2911.2	2765.4	2630.6	2505.0	2366.5	2207.4	2053.1	1928.9	1813.6	1712.8	1587.5
40°	4127.8	3143.5	2929.6	2744.8	2588.1	2436.3	2261.4	2078.2	1941.3	1813.6	1703.9
37.5°	6665.1	5213.9	4060.3	3049.6	2839.0	2638.6	2469.3	2279.5	2078.2	1928.9	1795.4
35°	10056.4	8183.7	6252.7	4684.0	3278.5	2886.7	2655.6	2469.3	2261.4	2053.1	1892.2
32.5°	13879.7	11620.0	9219.6	7010.8	4999.9	3432.3	2886.7	2638.6	2436.3	2207.4	2003.4
30°	17985.9	15310.2	12577.1	9798.0	7265.8	4999.9	3278.5	2839.0	2588.1	2366.5	2118.6
27.5°	22427.3	19134.1	16044.6	12899.5	9798.0	7010.8	4684.0	3049.6	2744.8	2505.0	2258.6
25°	27213.4	23341.3	19573.8	16044.6	12577.1	9219.6	6252.7	4060.3	2929.6	2630.6	2389.2
22.5°	32331.5	27773.0	23341.3	19134.1	15310.2	11620.0	8183.7	5213.9	3143.5	2765.4	2499.0
20°	38098.9	32331.5	27213.4	22427.3	17985.9	13879.7	10056.4	6665.1	4127.8	2911.2	2597.4
17.5°	45674.4	37342.0	31017.3	25558.4	20633.9	16132.3	11962.9	8161.5	5015.8	3042.4	2685.7
15°	53863.8	43175.7	35110.4	28731.6	23147.4	18156.0	13658.6	9495.2	5927.1	3500.8	2788.5
12.5°	63620.4	49557.2	38821.2	31515.0	25425.9	20039.7	15239.4	10847.3	6982.6	4124.1	2880.2
10°	72563.1	55992.6	43266.9	34379.8	27571.2	21727.1	16590.0	11973.2	7859.6	4641.0	2956.1
7.5°	81583.9	62142.7	47242.9	36671.6	29278.5	23065.4	17658.2	12861.8	8550.4	5047.5	3015.7
5°	88285.8	66676.8	50157.3	38344.1	30520.2	24036.1	18431.3	13503.6	9048.6	5340.3	3058.6
2.5°	92421.3	69458.4	51937.6	39362.5	31274.4	24624.5	18899.2	13891.7	9349.6	5517.0	3084.5
0°	93820.1	70396.3	52536.6	39704.5	31527.4	24821.7	19055.9	14021.5	9450.2	5576.1	3093.1
-2.5°	92421.3	69458.4	51937.6	39362.5	31274.4	24624.5	18899.2	13891.7	9349.6	5517.0	3084.5
-5°	88285.8	66676.8	50157.3	38344.1	30520.2	24036.1	18431.3	13503.6	9048.6	5340.3	3058.6
-7.5°	81583.9	62142.7	47242.9	36671.6	29278.5	23065.4	17658.2	12861.8	8550.4	5047.5	3015.7
-10°	72563.1	55992.6	43266.9	34379.8	27571.2	21727.1	16590.0	11973.2	7859.6	4641.0	2956.1
-12.5°	63620.4	49557.2	38821.2	31515.0	25425.9	20039.7	15239.4	10847.3	6982.6	4124.1	2880.2
-15°	53863.8	43175.7	35110.4	28731.6	23147.4	18156.0	13658.6	9495.2	5927.1	3500.8	2788.5
-17.5°	45674.4	37342.0	31017.3	25558.4	20633.9	16132.3	11962.9	8161.5	5015.8	3042.4	2685.7
-20°	38098.9	32331.5	27213.4	22427.3	17985.9	13879.7	10056.4	6665.1	4127.8	2911.2	2597.4



REPORT NUMBER: P731279 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-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°	32331.5	27773.0	23341.3	19134.1	15310.2	11620.0	8183.7	5213.9	3143.5	2765.4	2499.0
-25°	27213.4	23341.3	19573.8	16044.6	12577.1	9219.6	6252.7	4060.3	2929.6	2630.6	2389.2
-27.5°	22427.3	19134.1	16044.6	12899.5	9798.0	7010.8	4684.0	3049.6	2744.8	2505.0	2258.6
-30°	17985.9	15310.2	12577.1	9798.0	7265.8	4999.9	3278.5	2839.0	2588.1	2366.5	2118.6
-32.5°	13879.7	11620.0	9219.6	7010.8	4999.9	3432.3	2886.7	2638.6	2436.3	2207.4	2003.4
-35°	10056.4	8183.7	6252.7	4684.0	3278.5	2886.7	2655.6	2469.3	2261.4	2053.1	1892.2
-37.5°	6665.1	5213.9	4060.3	3049.6	2839.0	2638.6	2469.3	2279.5	2078.2	1928.9	1795.4
-40°	4127.8	3143.5	2929.6	2744.8	2588.1	2436.3	2261.4	2078.2	1941.3	1813.6	1703.9
-42.5°	2911.2	2765.4	2630.6	2505.0	2366.5	2207.4	2053.1	1928.9	1813.6	1712.8	1587.5
-45°	2597.4	2499.0	2389.2	2258.6	2118.6	2003.4	1892.2	1795.4	1703.9	1587.5	1461.1
-47.5°	2331.4	2229.7	2117.9	2022.3	1930.0	1837.6	1759.3	1675.3	1564.8	1446.5	1291.0
-50°	2053.6	1987.0	1913.7	1839.4	1774.8	1706.0	1618.6	1519.9	1402.8	1262.2	1114.2
-52.5°	1848.5	1802.3	1751.3	1695.9	1622.6	1540.4	1450.9	1330.9	1205.1	1070.0	928.2
-55°	1691.2	1638.8	1578.5	1512.8	1436.0	1336.8	1231.5	1118.3	996.9	870.1	751.5
-57.5°	1489.9	1433.5	1361.3	1282.5	1197.4	1103.6	1002.7	896.0	792.6	687.4	581.0
-60°	1231.5	1172.0	1103.6	1028.8	947.8	861.8	778.8	691.0	598.7	518.0	434.4
-62.5°	954.7	898.6	839.7	778.8	712.8	642.0	571.6	505.2	435.3	364.7	311.5
-65°	694.1	648.8	598.7	552.7	503.4	450.3	393.8	345.0	301.0	254.8	209.5
-67.5°	467.9	434.4	397.3	360.9	330.2	297.2	261.9	224.6	196.9	172.6	147.1
-70°	292.0	271.5	248.7	223.7	203.6	186.5	168.2	148.8	128.3	110.8	94.5
-72.5°	173.5	163.0	151.4	138.6	124.8	113.1	101.6	89.4	76.5	62.9	52.3
-75°	96.7	90.3	83.1	75.3	66.8	57.6	51.9	47.6	43.0	38.3	33.3
-77.5°	46.3	44.1	41.7	39.0	36.1	33.0	29.6	26.9	25.7	24.5	23.2
-80°	25.2	24.7	24.1	23.4	22.7	21.9	21.1	20.2	19.3	18.3	17.3
-82.5°	17.3	16.8	16.4	15.9	15.4	14.8	14.2	13.5	12.8	12.1	11.3
-85°	9.7	9.5	9.3	9.1	8.9	8.7	8.4	8.1	7.9	7.6	7.2
-87.5°	4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.0	3.9	3.8	3.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731279 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-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°	3.4	3.3	3.1	2.9	2.7	2.5	2.4	2.2	2.0	1.7	1.5
85°	6.9	6.6	6.2	5.9	5.5	5.1	4.7	4.3	3.9	3.5	3.1
82.5°	10.5	9.9	9.4	8.8	8.3	7.7	7.1	6.5	5.9	5.2	4.6
80°	16.2	15.1	13.9	12.7	11.5	10.3	9.5	8.7	7.8	7.0	6.1
77.5°	21.9	20.5	19.0	17.5	16.0	14.4	12.8	11.1	9.8	8.7	7.7
75°	28.1	25.9	24.1	22.3	20.5	18.6	16.6	14.7	12.6	10.6	9.2
72.5°	46.2	39.8	33.3	27.1	24.9	22.7	20.4	18.1	15.8	13.4	10.9
70°	77.6	60.0	49.4	41.7	33.8	26.8	24.2	21.6	18.9	16.1	13.4
67.5°	120.9	101.1	80.6	59.5	47.7	38.6	29.2	24.9	21.9	18.9	15.8
65°	180.0	149.5	118.9	95.4	71.3	51.4	41.0	30.5	24.9	21.6	18.1
62.5°	256.2	205.0	170.2	134.5	104.4	77.3	52.6	41.0	29.2	24.2	20.4
60°	354.6	292.0	227.5	182.8	142.9	107.4	77.3	51.4	38.6	26.8	22.7
57.5°	486.7	389.2	313.7	241.9	187.0	142.9	104.4	71.3	47.7	33.8	24.9
55°	628.9	518.3	410.2	321.0	241.9	182.8	134.5	95.4	59.5	41.7	27.1
52.5°	790.4	654.6	528.9	410.2	313.7	227.5	170.2	118.9	80.6	49.4	33.3
50°	957.4	803.4	654.6	518.3	389.2	292.0	205.0	149.5	101.1	60.0	39.8
47.5°	1129.0	957.4	790.4	628.9	486.7	354.6	256.2	180.0	120.9	77.6	46.2
45°	1291.0	1114.2	928.2	751.5	581.0	434.4	311.5	209.5	147.1	94.5	52.3
42.5°	1446.5	1262.2	1070.0	870.1	687.4	518.0	364.7	254.8	172.6	110.8	62.9
40°	1564.8	1402.8	1205.1	996.9	792.6	598.7	435.3	301.0	196.9	128.3	76.5
37.5°	1675.3	1519.9	1330.9	1118.3	896.0	691.0	505.2	345.0	224.6	148.8	89.4
35°	1759.3	1618.6	1450.9	1231.5	1002.7	778.8	571.6	393.8	261.9	168.2	101.6
32.5°	1837.6	1706.0	1540.4	1336.8	1103.6	861.8	642.0	450.3	297.2	186.5	113.1
30°	1930.0	1774.8	1622.6	1436.0	1197.4	947.8	712.8	503.4	330.2	203.6	124.8
27.5°	2022.3	1839.4	1695.9	1512.8	1282.5	1028.8	778.8	552.7	360.9	223.7	138.6
25°	2117.9	1913.7	1751.3	1578.5	1361.3	1103.6	839.7	598.7	397.3	248.7	151.4
22.5°	2229.7	1987.0	1802.3	1638.8	1433.5	1172.0	898.6	648.8	434.4	271.5	163.0
20°	2331.4	2053.6	1848.5	1691.2	1489.9	1231.5	954.7	694.1	467.9	292.0	173.5
17.5°	2421.1	2124.9	1900.9	1729.1	1534.5	1284.5	1004.6	734.4	497.7	310.3	182.8
15°	2492.8	2198.7	1949.0	1762.3	1573.5	1330.9	1048.2	769.5	523.6	326.2	190.9
12.5°	2554.2	2261.8	1990.1	1790.6	1606.8	1370.3	1085.3	799.4	545.7	339.8	197.8
10°	2605.0	2314.0	2024.0	1814.0	1634.2	1402.8	1115.9	824.1	563.9	350.9	203.5
7.5°	2644.9	2354.8	2050.5	1832.3	1655.6	1428.3	1139.8	843.3	578.1	359.6	207.9
5°	2673.6	2384.2	2069.6	1845.4	1671.0	1446.5	1156.9	857.1	588.3	365.8	211.1
2.5°	2690.8	2401.9	2081.1	1853.3	1680.2	1457.4	1167.2	865.3	594.4	369.6	213.0
0°	2696.6	2407.8	2084.9	1855.9	1683.3	1461.1	1170.6	868.1	596.4	370.8	213.6
-2.5°	2690.8	2401.9	2081.1	1853.3	1680.2	1457.4	1167.2	865.3	594.4	369.6	213.0
-5°	2673.6	2384.2	2069.6	1845.4	1671.0	1446.5	1156.9	857.1	588.3	365.8	211.1
-7.5°	2644.9	2354.8	2050.5	1832.3	1655.6	1428.3	1139.8	843.3	578.1	359.6	207.9
-10°	2605.0	2314.0	2024.0	1814.0	1634.2	1402.8	1115.9	824.1	563.9	350.9	203.5
-12.5°	2554.2	2261.8	1990.1	1790.6	1606.8	1370.3	1085.3	799.4	545.7	339.8	197.8
-15°	2492.8	2198.7	1949.0	1762.3	1573.5	1330.9	1048.2	769.5	523.6	326.2	190.9
-17.5°	2421.1	2124.9	1900.9	1729.1	1534.5	1284.5	1004.6	734.4	497.7	310.3	182.8
-20°	2331.4	2053.6	1848.5	1691.2	1489.9	1231.5	954.7	694.1	467.9	292.0	173.5



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2229.7	1987.0	1802.3	1638.8	1433.5	1172.0	898.6	648.8	434.4	271.5	163.0
-25°	2117.9	1913.7	1751.3	1578.5	1361.3	1103.6	839.7	598.7	397.3	248.7	151.4
-27.5°	2022.3	1839.4	1695.9	1512.8	1282.5	1028.8	778.8	552.7	360.9	223.7	138.6
-30°	1930.0	1774.8	1622.6	1436.0	1197.4	947.8	712.8	503.4	330.2	203.6	124.8
-32.5°	1837.6	1706.0	1540.4	1336.8	1103.6	861.8	642.0	450.3	297.2	186.5	113.1
-35°	1759.3	1618.6	1450.9	1231.5	1002.7	778.8	571.6	393.8	261.9	168.2	101.6
-37.5°	1675.3	1519.9	1330.9	1118.3	896.0	691.0	505.2	345.0	224.6	148.8	89.4
-40°	1564.8	1402.8	1205.1	996.9	792.6	598.7	435.3	301.0	196.9	128.3	76.5
-42.5°	1446.5	1262.2	1070.0	870.1	687.4	518.0	364.7	254.8	172.6	110.8	62.9
-45°	1291.0	1114.2	928.2	751.5	581.0	434.4	311.5	209.5	147.1	94.5	52.3
-47.5°	1129.0	957.4	790.4	628.9	486.7	354.6	256.2	180.0	120.9	77.6	46.2
-50°	957.4	803.4	654.6	518.3	389.2	292.0	205.0	149.5	101.1	60.0	39.8
-52.5°	790.4	654.6	528.9	410.2	313.7	227.5	170.2	118.9	80.6	49.4	33.3
-55°	628.9	518.3	410.2	321.0	241.9	182.8	134.5	95.4	59.5	41.7	27.1
-57.5°	486.7	389.2	313.7	241.9	187.0	142.9	104.4	71.3	47.7	33.8	24.9
-60°	354.6	292.0	227.5	182.8	142.9	107.4	77.3	51.4	38.6	26.8	22.7
-62.5°	256.2	205.0	170.2	134.5	104.4	77.3	52.6	41.0	29.2	24.2	20.4
-65°	180.0	149.5	118.9	95.4	71.3	51.4	41.0	30.5	24.9	21.6	18.1
-67.5°	120.9	101.1	80.6	59.5	47.7	38.6	29.2	24.9	21.9	18.9	15.8
-70°	77.6	60.0	49.4	41.7	33.8	26.8	24.2	21.6	18.9	16.1	13.4
-72.5°	46.2	39.8	33.3	27.1	24.9	22.7	20.4	18.1	15.8	13.4	10.9
-75°	28.1	25.9	24.1	22.3	20.5	18.6	16.6	14.7	12.6	10.6	9.2
-77.5°	21.9	20.5	19.0	17.5	16.0	14.4	12.8	11.1	9.8	8.7	7.7
-80°	16.2	15.1	13.9	12.7	11.5	10.3	9.5	8.7	7.8	7.0	6.1
-82.5°	10.5	9.9	9.4	8.8	8.3	7.7	7.1	6.5	5.9	5.2	4.6
-85°	6.9	6.6	6.2	5.9	5.5	5.1	4.7	4.3	3.9	3.5	3.1
-87.5°	3.4	3.3	3.1	2.9	2.7	2.5	2.4	2.2	2.0	1.7	1.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	1.1	0.9	0.7	0.4	0.2	0.0
85°	2.6	2.2	1.8	1.3	0.9	0.4	0.0
82.5°	3.9	3.3	2.6	2.0	1.3	0.7	0.0
80°	5.3	4.4	3.5	2.6	1.8	0.9	0.0
77.5°	6.6	5.5	4.4	3.3	2.2	1.1	0.0
75°	7.9	6.6	5.3	3.9	2.6	1.3	0.0
72.5°	9.2	7.7	6.1	4.6	3.1	1.5	0.0
70°	10.6	8.7	7.0	5.2	3.5	1.7	0.0
67.5°	12.6	9.8	7.8	5.9	3.9	2.0	0.0
65°	14.7	11.1	8.7	6.5	4.3	2.2	0.0
62.5°	16.6	12.8	9.5	7.1	4.7	2.4	0.0
60°	18.6	14.4	10.3	7.7	5.1	2.5	0.0
57.5°	20.5	16.0	11.5	8.3	5.5	2.7	0.0
55°	22.3	17.5	12.7	8.8	5.9	2.9	0.0
52.5°	24.1	19.0	13.9	9.4	6.2	3.1	0.0
50°	25.9	20.5	15.1	9.9	6.6	3.3	0.0
47.5°	28.1	21.9	16.2	10.5	6.9	3.4	0.0
45°	33.3	23.2	17.3	11.3	7.2	3.6	0.0
42.5°	38.3	24.5	18.3	12.1	7.6	3.8	0.0
40°	43.0	25.7	19.3	12.8	7.9	3.9	0.0
37.5°	47.6	26.9	20.2	13.5	8.1	4.0	0.0
35°	51.9	29.6	21.1	14.2	8.4	4.2	0.0
32.5°	57.6	33.0	21.9	14.8	8.7	4.3	0.0
30°	66.8	36.1	22.7	15.4	8.9	4.4	0.0
27.5°	75.3	39.0	23.4	15.9	9.1	4.5	0.0
25°	83.1	41.7	24.1	16.4	9.3	4.6	0.0
22.5°	90.3	44.1	24.7	16.8	9.5	4.7	0.0
20°	96.7	46.3	25.2	17.3	9.7	4.8	0.0
17.5°	102.4	48.3	25.7	17.6	9.8	4.9	0.0
15°	107.4	50.0	26.1	17.9	9.9	4.9	0.0
12.5°	111.6	51.4	26.5	18.2	10.1	5.0	0.0
10°	115.1	52.6	26.8	18.4	10.1	5.0	0.0
7.5°	117.8	53.5	27.0	18.6	10.2	5.1	0.0
5°	119.7	54.2	27.2	18.7	10.3	5.1	0.0
2.5°	120.9	54.6	27.3	18.8	10.3	5.1	0.0
0°	121.3	54.7	27.3	18.8	10.3	5.1	0.0
-2.5°	120.9	54.6	27.3	18.8	10.3	5.1	0.0
-5°	119.7	54.2	27.2	18.7	10.3	5.1	0.0
-7.5°	117.8	53.5	27.0	18.6	10.2	5.1	0.0
-10°	115.1	52.6	26.8	18.4	10.1	5.0	0.0
-12.5°	111.6	51.4	26.5	18.2	10.1	5.0	0.0
-15°	107.4	50.0	26.1	17.9	9.9	4.9	0.0
-17.5°	102.4	48.3	25.7	17.6	9.8	4.9	0.0
-20°	96.7	46.3	25.2	17.3	9.7	4.8	0.0



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 CATALOG NUMBER: EPH-LS-08-0680N-40-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	90.3	44.1	24.7	16.8	9.5	4.7	0.0
-25°	83.1	41.7	24.1	16.4	9.3	4.6	0.0
-27.5°	75.3	39.0	23.4	15.9	9.1	4.5	0.0
-30°	66.8	36.1	22.7	15.4	8.9	4.4	0.0
-32.5°	57.6	33.0	21.9	14.8	8.7	4.3	0.0
-35°	51.9	29.6	21.1	14.2	8.4	4.2	0.0
-37.5°	47.6	26.9	20.2	13.5	8.1	4.0	0.0
-40°	43.0	25.7	19.3	12.8	7.9	3.9	0.0
-42.5°	38.3	24.5	18.3	12.1	7.6	3.8	0.0
-45°	33.3	23.2	17.3	11.3	7.2	3.6	0.0
-47.5°	28.1	21.9	16.2	10.5	6.9	3.4	0.0
-50°	25.9	20.5	15.1	9.9	6.6	3.3	0.0
-52.5°	24.1	19.0	13.9	9.4	6.2	3.1	0.0
-55°	22.3	17.5	12.7	8.8	5.9	2.9	0.0
-57.5°	20.5	16.0	11.5	8.3	5.5	2.7	0.0
-60°	18.6	14.4	10.3	7.7	5.1	2.5	0.0
-62.5°	16.6	12.8	9.5	7.1	4.7	2.4	0.0
-65°	14.7	11.1	8.7	6.5	4.3	2.2	0.0
-67.5°	12.6	9.8	7.8	5.9	3.9	2.0	0.0
-70°	10.6	8.7	7.0	5.2	3.5	1.7	0.0
-72.5°	9.2	7.7	6.1	4.6	3.1	1.5	0.0
-75°	7.9	6.6	5.3	3.9	2.6	1.3	0.0
-77.5°	6.6	5.5	4.4	3.3	2.2	1.1	0.0
-80°	5.3	4.4	3.5	2.6	1.8	0.9	0.0
-82.5°	3.9	3.3	2.6	2.0	1.3	0.7	0.0
-85°	2.6	2.2	1.8	1.3	0.9	0.4	0.0
-87.5°	1.3	1.1	0.9	0.7	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

