

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: P731206 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-80-3S-HEG**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731206 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-40-80-3S-HEG
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 3S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

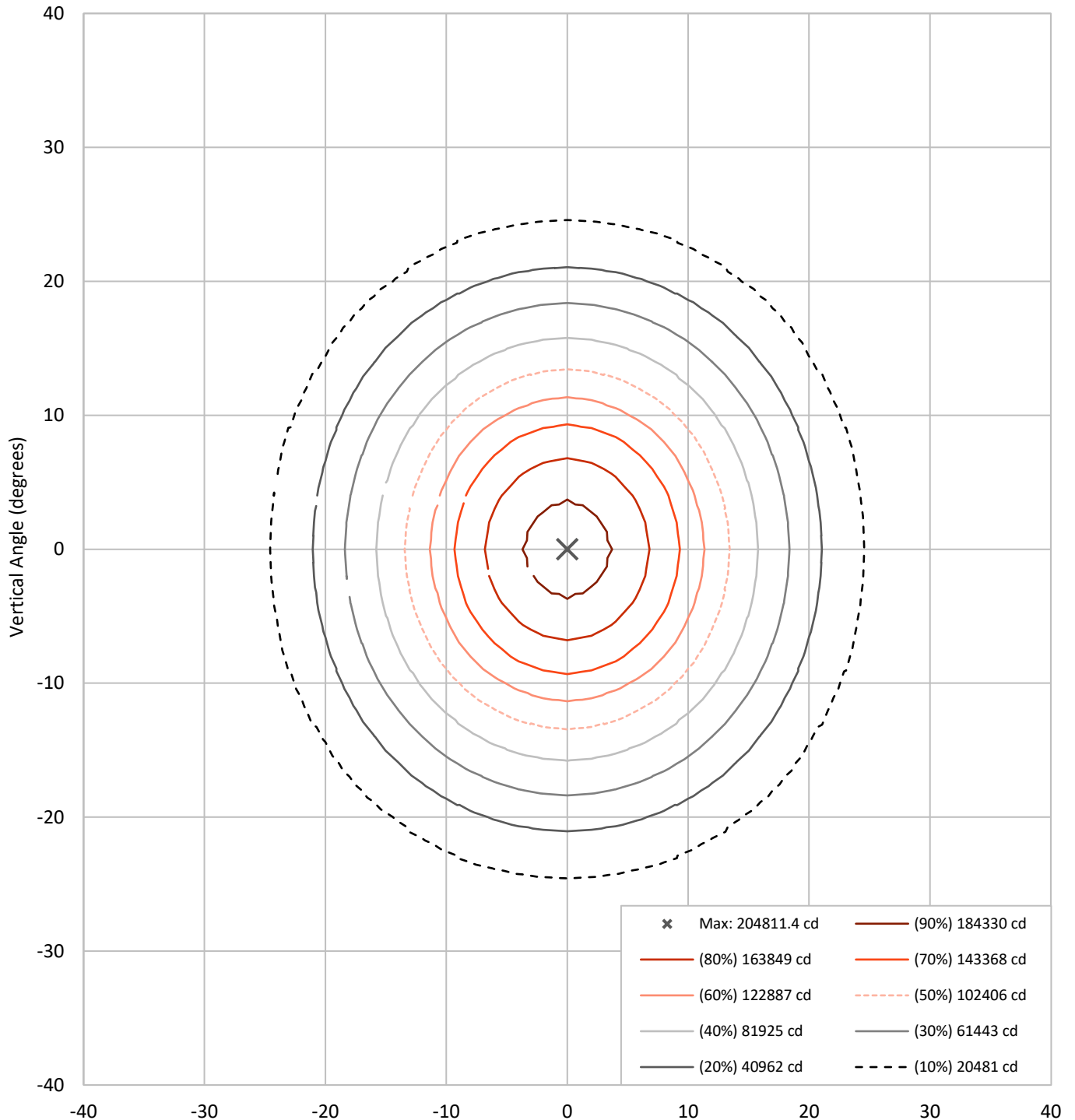
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	55316.8 lumens	Max Intensity:	204811.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	160.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	26.9°H x 26.9°V	Field Angle (10%):	48.9°H x 48.9°V
Beam Lumens:	23984.5 lumens	Field Lumens:	45918.4 lumens
Beam Efficiency:	43.4%	Field Efficiency:	83.0%

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





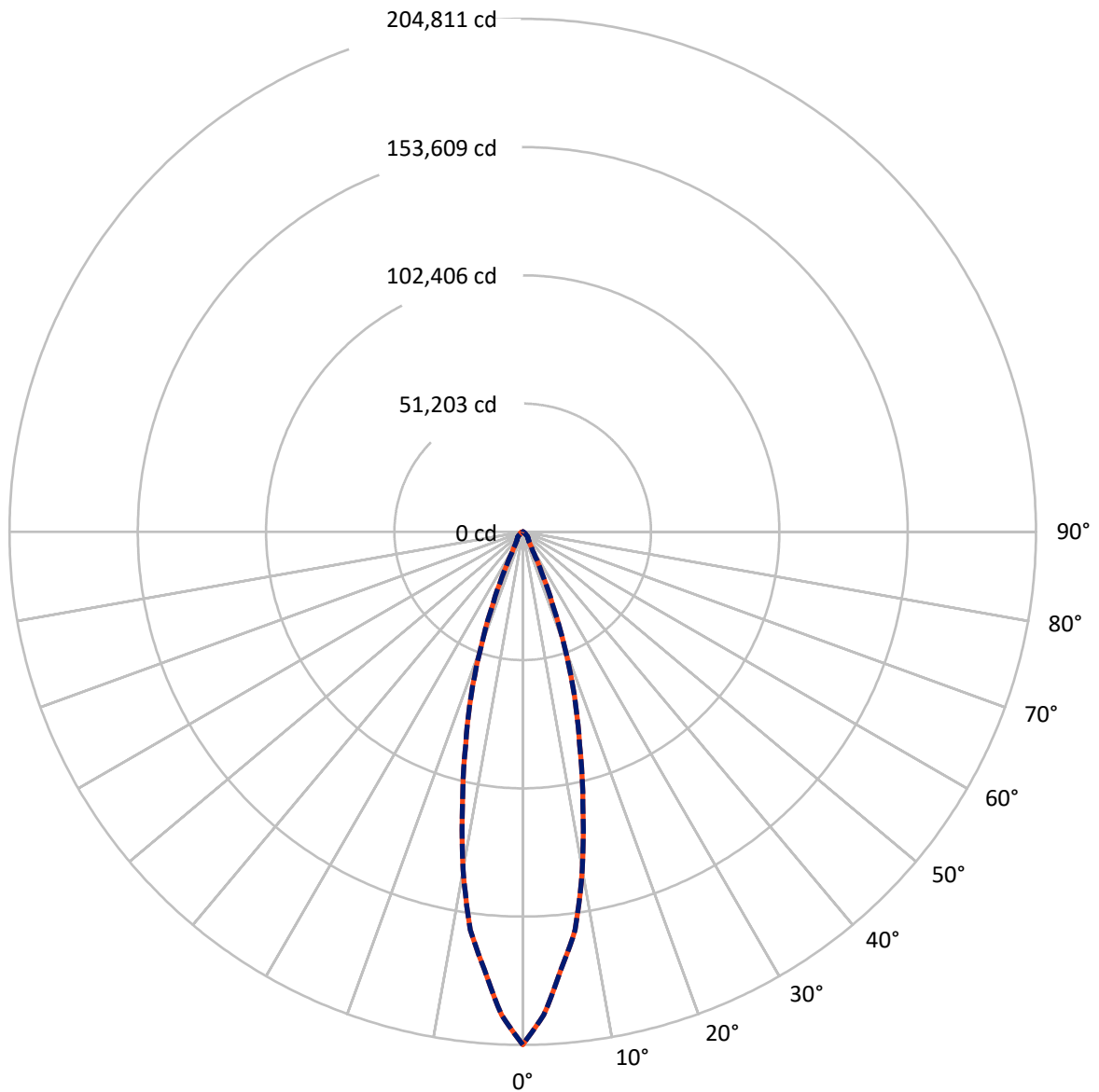
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Lumen Table

90																			
80	0.1	0.5		1.9		5.0		6.7		5.0		1.9		0.5		0.1			
70																			
60	0.2	0.3	1.2	3.7	7.2	11.0	14.0	15.7	15.7	14.0	11.0	7.2	3.7	1.2	0.3	0.2			
50		0.9	4.3	10.1	17.3	24.7	30.6	33.8	33.8	30.6	24.7	17.3	10.1	4.3	0.9				
40	0.6	2.3	8.2	17.5	29.0	45.6	65.3	76.6	76.6	65.3	45.6	29.0	17.5	8.2	2.3	0.6			
30		3.8	12.2	25.1	51.1	84.2	108.3	127.2	127.2	108.3	84.2	51.1	25.1	12.2	3.8				
20	1.5	5.3	15.8	35.9	76.2	120.7	279.1	574.0	574.0	279.1	120.7	76.2	35.9	15.8	5.3	1.5			
10		6.3	18.4	48.3	92.2	263.4	1220.9	2444.8	2444.8	1220.9	263.4	92.2	48.3	18.4	6.3				
0	1.9	6.9	19.7	54.9	105.2	528.3	2377.9	4689.7	4689.7	2377.9	528.3	105.2	54.9	19.7	6.9	1.9			
-10		6.9	19.7	54.9	105.2	528.3	2377.9	4689.7	4689.7	2377.9	528.3	105.2	54.9	19.7	6.9				
-20	1.5	6.3	18.4	48.3	92.2	263.4	1220.9	2444.8	2444.8	1220.9	263.4	92.2	48.3	18.4	6.3	1.5			
-30		5.3	15.8	35.9	76.2	120.7	279.1	574.0	574.0	279.1	120.7	76.2	35.9	15.8	5.3				
-40	0.6	3.8	12.2	25.1	51.1	84.2	108.3	127.2	127.2	108.3	84.2	51.1	25.1	12.2	3.8	0.6			
-50		2.3	8.2	17.5	29.0	45.6	65.3	76.6	76.6	65.3	45.6	29.0	17.5	8.2	2.3				
-60	0.2	0.9	4.3	10.1	17.3	24.7	30.6	33.8	33.8	30.6	24.7	17.3	10.1	4.3	0.9	0.2			
-70		0.3	1.2	3.7	7.2	11.0	14.0	15.7	15.7	14.0	11.0	7.2	3.7	1.2	0.3				
-80	0.1	0.5		1.9		5.0		6.7		5.0		1.9		0.5		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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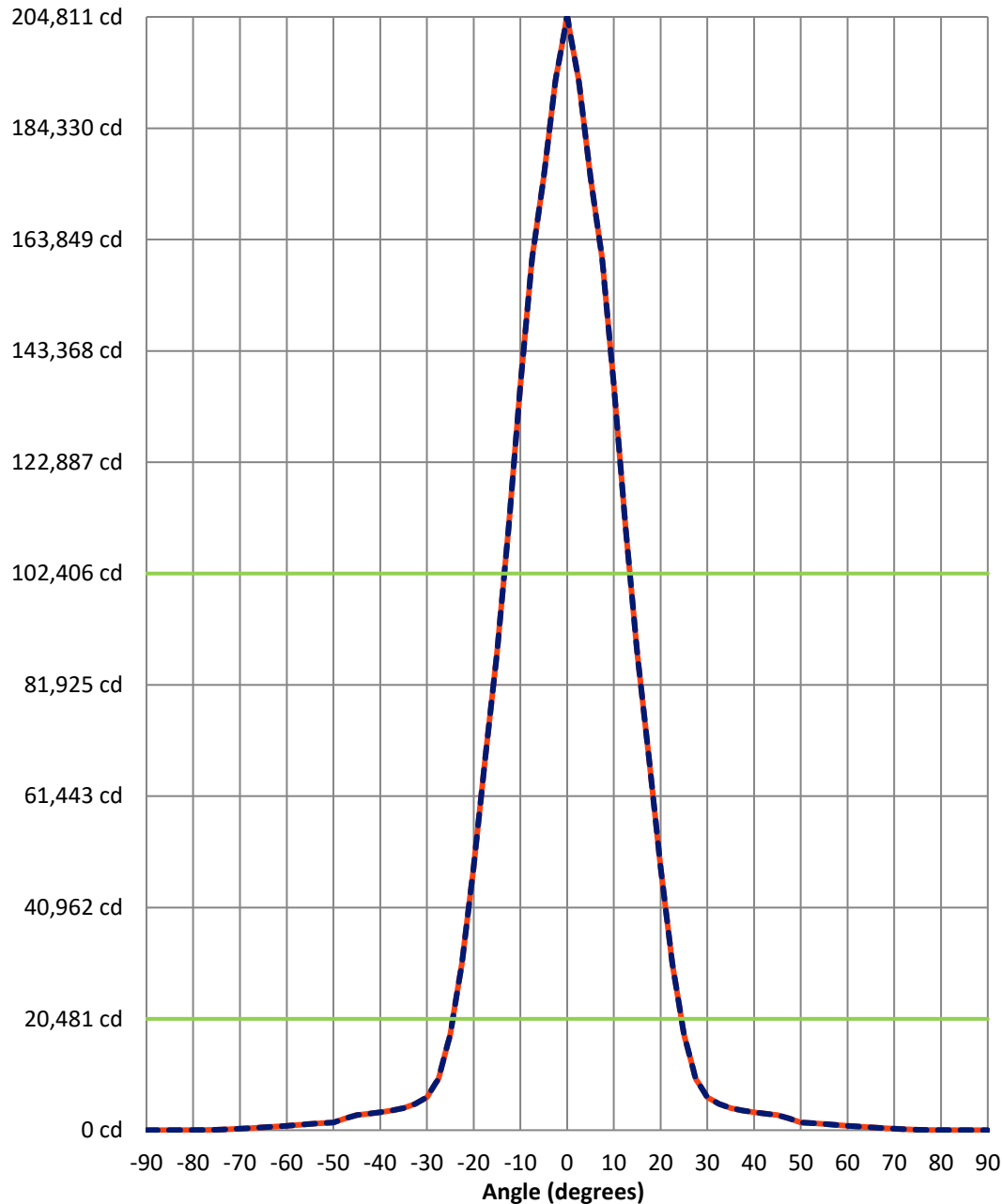
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 26.9°
 V Angle: 26.9°
 Lumens: 23984.5
 Efficiency: 43.4%

Field:
 H Angle: 48.9°
 V Angle: 48.9°
 Lumens: 45918.4
 Efficiency: 83.0%

Spill:
 Lumens: 9398.4
 Efficiency: 17.0%

— 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	0.3	0.5	0.6	0.8	1.0	1.1	1.3	1.4	1.6
85°	0.0	0.3	0.6	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1
82.5°	0.0	0.5	1.0	1.4	1.9	2.4	2.9	3.3	3.8	4.1	4.4
80°	0.0	0.6	1.3	1.9	2.6	3.2	3.8	4.3	4.7	5.2	5.6
77.5°	0.0	0.8	1.6	2.4	3.2	3.9	4.5	5.1	5.7	6.2	7.0
75°	0.0	1.0	1.9	2.9	3.8	4.5	5.2	5.9	6.6	7.8	8.9
72.5°	0.0	1.1	2.2	3.3	4.3	5.1	5.9	6.9	8.2	9.5	10.8
70°	0.0	1.3	2.5	3.8	4.7	5.7	6.6	8.2	9.7	11.3	13.3
67.5°	0.0	1.4	2.8	4.1	5.2	6.2	7.8	9.5	11.3	13.6	15.9
65°	0.0	1.6	3.1	4.4	5.6	7.0	8.9	10.8	13.3	15.9	19.2
62.5°	0.0	1.7	3.4	4.8	6.1	7.9	10.0	12.5	15.3	18.6	24.2
60°	0.0	1.8	3.7	5.1	6.5	8.8	11.1	14.2	17.3	23.1	29.1
57.5°	0.0	2.0	3.9	5.4	7.2	9.7	12.5	15.9	20.8	27.4	41.9
55°	0.0	2.1	4.1	5.7	7.8	10.5	13.9	17.5	24.5	33.9	58.0
52.5°	0.0	2.3	4.3	6.0	8.5	11.4	15.3	20.5	28.2	48.1	73.8
50°	0.0	2.4	4.5	6.3	9.1	12.5	16.6	23.7	34.3	61.8	102.4
47.5°	0.0	2.5	4.7	6.6	9.8	13.6	18.1	26.7	46.1	75.1	131.6
45°	0.0	2.6	4.9	7.1	10.4	14.6	20.5	29.5	57.4	100.1	159.8
42.5°	0.0	2.7	5.0	7.5	10.9	15.6	22.9	36.2	68.3	124.5	193.1
40°	0.0	2.8	5.2	7.9	11.6	16.5	25.2	45.3	82.1	147.8	225.9
37.5°	0.0	2.9	5.3	8.3	12.3	17.4	27.3	54.0	101.7	171.6	257.2
35°	0.0	3.0	5.5	8.6	13.0	18.8	29.3	62.2	120.3	198.2	286.6
32.5°	0.0	3.1	5.6	9.0	13.6	20.4	32.6	69.9	137.8	223.2	313.9
30°	0.0	3.2	5.7	9.3	14.2	21.9	38.8	78.8	154.2	246.7	339.5
27.5°	0.0	3.3	5.9	9.6	14.7	23.3	44.5	92.0	171.0	268.5	363.3
25°	0.0	3.4	6.0	9.9	15.2	24.5	49.8	104.2	188.7	288.3	385.6
22.5°	0.0	3.4	6.1	10.1	15.7	25.7	54.6	115.4	204.9	306.2	411.0
20°	0.0	3.5	6.2	10.3	16.1	26.7	58.9	125.4	219.5	322.4	434.0
17.5°	0.0	3.5	6.2	10.5	16.5	27.6	62.7	134.3	232.5	336.7	454.4
15°	0.0	3.6	6.3	10.7	16.8	28.5	66.1	142.1	243.8	349.3	472.2
12.5°	0.0	3.6	6.4	10.9	17.1	29.1	68.9	148.7	253.4	359.9	487.4
10°	0.0	3.6	6.4	11.0	17.3	29.7	71.2	154.1	261.4	368.7	499.9
7.5°	0.0	3.7	6.5	11.1	17.5	30.1	73.1	158.3	267.5	375.6	509.6
5°	0.0	3.7	6.5	11.1	17.6	30.4	74.4	161.4	272.0	380.5	516.6
2.5°	0.0	3.7	6.5	11.2	17.7	30.6	75.1	163.2	274.6	383.4	520.8
0°	0.0	3.7	6.5	11.2	17.7	30.6	75.1	163.2	274.6	383.4	520.8
-2.5°	0.0	3.7	6.5	11.2	17.7	30.6	75.1	163.2	274.6	383.4	520.8
-5°	0.0	3.7	6.5	11.1	17.6	30.4	74.4	161.4	272.0	380.5	516.6
-7.5°	0.0	3.7	6.5	11.1	17.5	30.1	73.1	158.3	267.5	375.6	509.6
-10°	0.0	3.6	6.4	11.0	17.3	29.7	71.2	154.1	261.4	368.7	499.9
-12.5°	0.0	3.6	6.4	10.9	17.1	29.1	68.9	148.7	253.4	359.9	487.4
-15°	0.0	3.6	6.3	10.7	16.8	28.5	66.1	142.1	243.8	349.3	472.2
-17.5°	0.0	3.5	6.2	10.5	16.5	27.6	62.7	134.3	232.5	336.7	454.4
-20°	0.0	3.5	6.2	10.3	16.1	26.7	58.9	125.4	219.5	322.4	434.0



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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	3.4	6.1	10.1	15.7	25.7	54.6	115.4	204.9	306.2	411.0
-25°	0.0	3.4	6.0	9.9	15.2	24.5	49.8	104.2	188.7	288.3	385.6
-27.5°	0.0	3.3	5.9	9.6	14.7	23.3	44.5	92.0	171.0	268.5	363.3
-30°	0.0	3.2	5.7	9.3	14.2	21.9	38.8	78.8	154.2	246.7	339.5
-32.5°	0.0	3.1	5.6	9.0	13.6	20.4	32.6	69.9	137.8	223.2	313.9
-35°	0.0	3.0	5.5	8.6	13.0	18.8	29.3	62.2	120.3	198.2	286.6
-37.5°	0.0	2.9	5.3	8.3	12.3	17.4	27.3	54.0	101.7	171.6	257.2
-40°	0.0	2.8	5.2	7.9	11.6	16.5	25.2	45.3	82.1	147.8	225.9
-42.5°	0.0	2.7	5.0	7.5	10.9	15.6	22.9	36.2	68.3	124.5	193.1
-45°	0.0	2.6	4.9	7.1	10.4	14.6	20.5	29.5	57.4	100.1	159.8
-47.5°	0.0	2.5	4.7	6.6	9.8	13.6	18.1	26.7	46.1	75.1	131.6
-50°	0.0	2.4	4.5	6.3	9.1	12.5	16.6	23.7	34.3	61.8	102.4
-52.5°	0.0	2.3	4.3	6.0	8.5	11.4	15.3	20.5	28.2	48.1	73.8
-55°	0.0	2.1	4.1	5.7	7.8	10.5	13.9	17.5	24.5	33.9	58.0
-57.5°	0.0	2.0	3.9	5.4	7.2	9.7	12.5	15.9	20.8	27.4	41.9
-60°	0.0	1.8	3.7	5.1	6.5	8.8	11.1	14.2	17.3	23.1	29.1
-62.5°	0.0	1.7	3.4	4.8	6.1	7.9	10.0	12.5	15.3	18.6	24.2
-65°	0.0	1.6	3.1	4.4	5.6	7.0	8.9	10.8	13.3	15.9	19.2
-67.5°	0.0	1.4	2.8	4.1	5.2	6.2	7.8	9.5	11.3	13.6	15.9
-70°	0.0	1.3	2.5	3.8	4.7	5.7	6.6	8.2	9.7	11.3	13.3
-72.5°	0.0	1.1	2.2	3.3	4.3	5.1	5.9	6.9	8.2	9.5	10.8
-75°	0.0	1.0	1.9	2.9	3.8	4.5	5.2	5.9	6.6	7.8	8.9
-77.5°	0.0	0.8	1.6	2.4	3.2	3.9	4.5	5.1	5.7	6.2	7.0
-80°	0.0	0.6	1.3	1.9	2.6	3.2	3.8	4.3	4.7	5.2	5.6
-82.5°	0.0	0.5	1.0	1.4	1.9	2.4	2.9	3.3	3.8	4.1	4.4
-85°	0.0	0.3	0.6	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1
-87.5°	0.0	0.2	0.3	0.5	0.6	0.8	1.0	1.1	1.3	1.4	1.6
-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°	1.7	1.8	2.0	2.1	2.3	2.4	2.5	2.6	2.7	2.8	2.9
85°	3.4	3.7	3.9	4.1	4.3	4.5	4.7	4.9	5.0	5.2	5.3
82.5°	4.8	5.1	5.4	5.7	6.0	6.3	6.6	7.1	7.5	7.9	8.3
80°	6.1	6.5	7.2	7.8	8.5	9.1	9.8	10.4	10.9	11.6	12.3
77.5°	7.9	8.8	9.7	10.5	11.4	12.5	13.6	14.6	15.6	16.5	17.4
75°	10.0	11.1	12.5	13.9	15.3	16.6	18.1	20.5	22.9	25.2	27.3
72.5°	12.5	14.2	15.9	17.5	20.5	23.7	26.7	29.5	36.2	45.3	54.0
70°	15.3	17.3	20.8	24.5	28.2	34.3	46.1	57.4	68.3	82.1	101.7
67.5°	18.6	23.1	27.4	33.9	48.1	61.8	75.1	100.1	124.5	147.8	171.6
65°	24.2	29.1	41.9	58.0	73.8	102.4	131.6	159.8	193.1	225.9	257.2
62.5°	29.7	45.9	64.0	88.1	122.3	155.5	194.0	233.4	271.2	306.6	340.4
60°	45.9	66.1	96.0	134.3	173.7	219.5	264.0	306.2	346.6	385.6	432.4
57.5°	64.0	96.0	138.3	183.9	234.9	284.4	331.4	377.0	430.5	483.9	535.2
55°	88.1	134.3	183.9	240.1	294.5	346.7	400.9	463.1	523.1	582.0	638.4
52.5°	122.3	173.7	234.9	294.5	351.8	413.9	482.8	550.1	616.0	679.0	738.2
50°	155.5	219.5	284.4	346.7	413.9	489.4	563.7	636.5	705.9	772.1	844.4
47.5°	194.0	264.0	331.4	400.9	482.8	563.7	643.4	719.4	792.7	878.7	962.9
45°	233.4	306.2	377.0	463.1	550.1	636.5	719.4	799.6	895.9	990.1	1083.8
42.5°	271.2	346.6	430.5	523.1	616.0	705.9	792.7	895.9	999.2	1102.5	1192.7
40°	306.6	385.6	483.9	582.0	679.0	772.1	878.7	990.1	1102.5	1200.6	1288.6
37.5°	340.4	432.4	535.2	638.4	738.2	844.4	962.9	1083.8	1192.7	1288.6	1366.4
35°	372.4	476.9	584.7	691.4	794.8	919.7	1046.9	1169.1	1272.5	1359.5	1573.8
32.5°	407.5	519.0	631.6	741.0	860.1	992.2	1127.1	1240.5	1339.2	1488.4	2011.5
30°	443.4	559.2	675.3	787.8	922.7	1062.8	1193.4	1305.6	1399.2	1880.8	2382.4
27.5°	476.9	596.8	715.4	839.0	981.9	1128.9	1252.7	1358.5	1666.2	2236.1	2709.1
25°	507.8	631.6	752.6	889.1	1038.7	1182.9	1305.4	1407.8	1990.6	2522.9	2874.9
22.5°	536.4	663.4	786.6	935.1	1090.9	1230.0	1347.6	1650.5	2268.1	2781.7	2992.1
20°	562.4	691.4	821.6	977.1	1138.2	1272.8	1386.0	1904.8	2494.4	2881.7	3104.2
17.5°	585.6	716.4	855.6	1015.9	1174.7	1308.0	1449.1	2133.2	2698.0	2972.0	3207.8
15°	605.8	738.2	885.3	1049.9	1205.6	1335.8	1634.5	2303.9	2818.0	3053.2	3300.1
12.5°	623.1	756.8	910.6	1078.9	1232.0	1359.7	1793.3	2446.2	2881.4	3126.2	3397.3
10°	637.3	772.1	931.5	1102.9	1253.8	1379.4	1924.6	2564.0	2933.9	3186.9	3478.3
7.5°	648.4	784.1	947.9	1121.6	1270.8	1394.8	2027.7	2656.5	2975.2	3234.7	3542.1
5°	656.3	792.7	959.6	1135.0	1283.1	1405.9	2101.7	2723.0	3004.9	3269.1	3588.3
2.5°	661.1	797.9	966.6	1143.1	1290.4	1412.6	2146.4	2763.2	3022.9	3289.9	3616.2
0°	662.7	799.6	969.0	1145.8	1292.9	1414.8	2161.3	2776.6	3028.9	3296.9	3625.5
-2.5°	661.1	797.9	966.6	1143.1	1290.4	1412.6	2146.4	2763.2	3022.9	3289.9	3616.2
-5°	656.3	792.7	959.6	1135.0	1283.1	1405.9	2101.7	2723.0	3004.9	3269.1	3588.3
-7.5°	648.4	784.1	947.9	1121.6	1270.8	1394.8	2027.7	2656.5	2975.2	3234.7	3542.1
-10°	637.3	772.1	931.5	1102.9	1253.8	1379.4	1924.6	2564.0	2933.9	3186.9	3478.3
-12.5°	623.1	756.8	910.6	1078.9	1232.0	1359.7	1793.3	2446.2	2881.4	3126.2	3397.3
-15°	605.8	738.2	885.3	1049.9	1205.6	1335.8	1634.5	2303.9	2818.0	3053.2	3300.1
-17.5°	585.6	716.4	855.6	1015.9	1174.7	1308.0	1449.1	2133.2	2698.0	2972.0	3207.8
-20°	562.4	691.4	821.6	977.1	1138.2	1272.8	1386.0	1904.8	2494.4	2881.7	3104.2



REPORT NUMBER: P731206 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-3S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	536.4	663.4	786.6	935.1	1090.9	1230.0	1347.6	1650.5	2268.1	2781.7	2992.1
-25°	507.8	631.6	752.6	889.1	1038.7	1182.9	1305.4	1407.8	1990.6	2522.9	2874.9
-27.5°	476.9	596.8	715.4	839.0	981.9	1128.9	1252.7	1358.5	1666.2	2236.1	2709.1
-30°	443.4	559.2	675.3	787.8	922.7	1062.8	1193.4	1305.6	1399.2	1880.8	2382.4
-32.5°	407.5	519.0	631.6	741.0	860.1	992.2	1127.1	1240.5	1339.2	1488.4	2011.5
-35°	372.4	476.9	584.7	691.4	794.8	919.7	1046.9	1169.1	1272.5	1359.5	1573.8
-37.5°	340.4	432.4	535.2	638.4	738.2	844.4	962.9	1083.8	1192.7	1288.6	1366.4
-40°	306.6	385.6	483.9	582.0	679.0	772.1	878.7	990.1	1102.5	1200.6	1288.6
-42.5°	271.2	346.6	430.5	523.1	616.0	705.9	792.7	895.9	999.2	1102.5	1192.7
-45°	233.4	306.2	377.0	463.1	550.1	636.5	719.4	799.6	895.9	990.1	1083.8
-47.5°	194.0	264.0	331.4	400.9	482.8	563.7	643.4	719.4	792.7	878.7	962.9
-50°	155.5	219.5	284.4	346.7	413.9	489.4	563.7	636.5	705.9	772.1	844.4
-52.5°	122.3	173.7	234.9	294.5	351.8	413.9	482.8	550.1	616.0	679.0	738.2
-55°	88.1	134.3	183.9	240.1	294.5	346.7	400.9	463.1	523.1	582.0	638.4
-57.5°	64.0	96.0	138.3	183.9	234.9	284.4	331.4	377.0	430.5	483.9	535.2
-60°	45.9	66.1	96.0	134.3	173.7	219.5	264.0	306.2	346.6	385.6	432.4
-62.5°	29.7	45.9	64.0	88.1	122.3	155.5	194.0	233.4	271.2	306.6	340.4
-65°	24.2	29.1	41.9	58.0	73.8	102.4	131.6	159.8	193.1	225.9	257.2
-67.5°	18.6	23.1	27.4	33.9	48.1	61.8	75.1	100.1	124.5	147.8	171.6
-70°	15.3	17.3	20.8	24.5	28.2	34.3	46.1	57.4	68.3	82.1	101.7
-72.5°	12.5	14.2	15.9	17.5	20.5	23.7	26.7	29.5	36.2	45.3	54.0
-75°	10.0	11.1	12.5	13.9	15.3	16.6	18.1	20.5	22.9	25.2	27.3
-77.5°	7.9	8.8	9.7	10.5	11.4	12.5	13.6	14.6	15.6	16.5	17.4
-80°	6.1	6.5	7.2	7.8	8.5	9.1	9.8	10.4	10.9	11.6	12.3
-82.5°	4.8	5.1	5.4	5.7	6.0	6.3	6.6	7.1	7.5	7.9	8.3
-85°	3.4	3.7	3.9	4.1	4.3	4.5	4.7	4.9	5.0	5.2	5.3
-87.5°	1.7	1.8	2.0	2.1	2.3	2.4	2.5	2.6	2.7	2.8	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



REPORT NUMBER: P731206 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-3S-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°	3.0	3.1	3.2	3.3	3.4	3.4	3.5	3.5	3.6	3.6	3.6
85°	5.5	5.6	5.7	5.9	6.0	6.1	6.2	6.2	6.3	6.4	6.4
82.5°	8.6	9.0	9.3	9.6	9.9	10.1	10.3	10.5	10.7	10.9	11.0
80°	13.0	13.6	14.2	14.7	15.2	15.7	16.1	16.5	16.8	17.1	17.3
77.5°	18.8	20.4	21.9	23.3	24.5	25.7	26.7	27.6	28.5	29.1	29.7
75°	29.3	32.6	38.8	44.5	49.8	54.6	58.9	62.7	66.1	68.9	71.2
72.5°	62.2	69.9	78.8	92.0	104.2	115.4	125.4	134.3	142.1	148.7	154.1
70°	120.3	137.8	154.2	171.0	188.7	204.9	219.5	232.5	243.8	253.4	261.4
67.5°	198.2	223.2	246.7	268.5	288.3	306.2	322.4	336.7	349.3	359.9	368.7
65°	286.6	313.9	339.5	363.3	385.6	411.0	434.0	454.4	472.2	487.4	499.9
62.5°	372.4	407.5	443.4	476.9	507.8	536.4	562.4	585.6	605.8	623.1	637.3
60°	476.9	519.0	559.2	596.8	631.6	663.4	691.4	716.4	738.2	756.8	772.1
57.5°	584.7	631.6	675.3	715.4	752.6	786.6	821.6	855.6	885.3	910.6	931.5
55°	691.4	741.0	787.8	839.0	889.1	935.1	977.1	1015.9	1049.9	1078.9	1102.9
52.5°	794.8	860.1	922.7	981.9	1038.7	1090.9	1138.2	1174.7	1205.6	1232.0	1253.8
50°	919.7	992.2	1062.8	1128.9	1182.9	1230.0	1272.8	1308.0	1335.8	1359.7	1379.4
47.5°	1046.9	1127.1	1193.4	1252.7	1305.4	1347.6	1386.0	1449.1	1634.5	1793.3	1924.6
45°	1169.1	1240.5	1305.6	1358.5	1407.8	1650.5	1904.8	2133.2	2303.9	2446.2	2564.0
42.5°	1272.5	1339.2	1399.2	1666.2	1990.6	2268.1	2494.4	2698.0	2818.0	2881.4	2933.9
40°	1359.5	1488.4	1880.8	2236.1	2522.9	2781.7	2881.7	2972.0	3053.2	3126.2	3186.9
37.5°	1573.8	2011.5	2382.4	2709.1	2874.9	2992.1	3104.2	3207.8	3300.1	3397.3	3478.3
35°	2055.3	2456.3	2795.4	2938.3	3075.7	3209.3	3340.5	3477.5	3599.4	3731.1	3848.2
32.5°	2456.3	2811.1	2970.3	3128.1	3280.9	3452.9	3615.3	3808.5	3984.0	4194.8	4422.5
30°	2795.4	2970.3	3145.8	3321.9	3521.7	3737.2	3969.2	4275.0	4614.2	4949.7	5338.6
27.5°	2938.3	3128.1	3321.9	3544.8	3800.9	4072.5	4517.0	4973.7	5549.0	6053.6	7266.9
25°	3075.7	3280.9	3521.7	3800.9	4131.9	4640.4	5273.8	5963.3	7577.2	9152.8	11784.7
22.5°	3209.3	3452.9	3737.2	4072.5	4640.4	5375.2	6397.2	8524.7	11727.0	15769.9	20189.8
20°	3340.5	3615.3	3969.2	4517.0	5273.8	6397.2	8846.1	13310.0	18630.0	25779.3	32379.1
17.5°	3477.5	3808.5	4275.0	4973.7	5963.3	8524.7	13310.0	19996.5	28677.2	38579.4	47864.8
15°	3599.4	3984.0	4614.2	5549.0	7577.2	11727.0	18630.0	28677.2	40706.1	52981.9	64825.6
12.5°	3731.1	4194.8	4949.7	6053.6	9152.8	15769.9	25779.3	38579.4	52981.9	67702.1	80447.0
10°	3848.2	4422.5	5338.6	7266.9	11784.7	20189.8	32379.1	47864.8	64825.6	80447.0	95650.9
7.5°	3940.8	4603.2	5648.1	8240.0	14303.7	24696.5	39183.8	56529.8	74482.7	91795.7	111235.8
5°	4007.8	4734.2	5873.2	8950.2	16150.0	28019.0	44239.4	63093.4	81716.0	101898.2	124134.3
2.5°	4048.4	4813.6	6009.9	9382.6	17277.9	30057.3	47358.9	67176.9	86270.3	108677.5	133601.4
0°	4062.0	4840.2	6055.8	9527.8	17657.4	30744.6	48414.1	68564.3	87828.3	111015.7	137008.5
-2.5°	4048.4	4813.6	6009.9	9382.6	17277.9	30057.3	47358.9	67176.9	86270.3	108677.5	133601.4
-5°	4007.8	4734.2	5873.2	8950.2	16150.0	28019.0	44239.4	63093.4	81716.0	101898.2	124134.3
-7.5°	3940.8	4603.2	5648.1	8240.0	14303.7	24696.5	39183.8	56529.8	74482.7	91795.7	111235.8
-10°	3848.2	4422.5	5338.6	7266.9	11784.7	20189.8	32379.1	47864.8	64825.6	80447.0	95650.9
-12.5°	3731.1	4194.8	4949.7	6053.6	9152.8	15769.9	25779.3	38579.4	52981.9	67702.1	80447.0
-15°	3599.4	3984.0	4614.2	5549.0	7577.2	11727.0	18630.0	28677.2	40706.1	52981.9	64825.6
-17.5°	3477.5	3808.5	4275.0	4973.7	5963.3	8524.7	13310.0	19996.5	28677.2	38579.4	47864.8
-20°	3340.5	3615.3	3969.2	4517.0	5273.8	6397.2	8846.1	13310.0	18630.0	25779.3	32379.1



REPORT NUMBER: P731206 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-3S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3209.3	3452.9	3737.2	4072.5	4640.4	5375.2	6397.2	8524.7	11727.0	15769.9	20189.8
-25°	3075.7	3280.9	3521.7	3800.9	4131.9	4640.4	5273.8	5963.3	7577.2	9152.8	11784.7
-27.5°	2938.3	3128.1	3321.9	3544.8	3800.9	4072.5	4517.0	4973.7	5549.0	6053.6	7266.9
-30°	2795.4	2970.3	3145.8	3321.9	3521.7	3737.2	3969.2	4275.0	4614.2	4949.7	5338.6
-32.5°	2456.3	2811.1	2970.3	3128.1	3280.9	3452.9	3615.3	3808.5	3984.0	4194.8	4422.5
-35°	2055.3	2456.3	2795.4	2938.3	3075.7	3209.3	3340.5	3477.5	3599.4	3731.1	3848.2
-37.5°	1573.8	2011.5	2382.4	2709.1	2874.9	2992.1	3104.2	3207.8	3300.1	3397.3	3478.3
-40°	1359.5	1488.4	1880.8	2236.1	2522.9	2781.7	2881.7	2972.0	3053.2	3126.2	3186.9
-42.5°	1272.5	1339.2	1399.2	1666.2	1990.6	2268.1	2494.4	2698.0	2818.0	2881.4	2933.9
-45°	1169.1	1240.5	1305.6	1358.5	1407.8	1650.5	1904.8	2133.2	2303.9	2446.2	2564.0
-47.5°	1046.9	1127.1	1193.4	1252.7	1305.4	1347.6	1386.0	1449.1	1634.5	1793.3	1924.6
-50°	919.7	992.2	1062.8	1128.9	1182.9	1230.0	1272.8	1308.0	1335.8	1359.7	1379.4
-52.5°	794.8	860.1	922.7	981.9	1038.7	1090.9	1138.2	1174.7	1205.6	1232.0	1253.8
-55°	691.4	741.0	787.8	839.0	889.1	935.1	977.1	1015.9	1049.9	1078.9	1102.9
-57.5°	584.7	631.6	675.3	715.4	752.6	786.6	821.6	855.6	885.3	910.6	931.5
-60°	476.9	519.0	559.2	596.8	631.6	663.4	691.4	716.4	738.2	756.8	772.1
-62.5°	372.4	407.5	443.4	476.9	507.8	536.4	562.4	585.6	605.8	623.1	637.3
-65°	286.6	313.9	339.5	363.3	385.6	411.0	434.0	454.4	472.2	487.4	499.9
-67.5°	198.2	223.2	246.7	268.5	288.3	306.2	322.4	336.7	349.3	359.9	368.7
-70°	120.3	137.8	154.2	171.0	188.7	204.9	219.5	232.5	243.8	253.4	261.4
-72.5°	62.2	69.9	78.8	92.0	104.2	115.4	125.4	134.3	142.1	148.7	154.1
-75°	29.3	32.6	38.8	44.5	49.8	54.6	58.9	62.7	66.1	68.9	71.2
-77.5°	18.8	20.4	21.9	23.3	24.5	25.7	26.7	27.6	28.5	29.1	29.7
-80°	13.0	13.6	14.2	14.7	15.2	15.7	16.1	16.5	16.8	17.1	17.3
-82.5°	8.6	9.0	9.3	9.6	9.9	10.1	10.3	10.5	10.7	10.9	11.0
-85°	5.5	5.6	5.7	5.9	6.0	6.1	6.2	6.2	6.3	6.4	6.4
-87.5°	3.0	3.1	3.2	3.3	3.4	3.4	3.5	3.5	3.6	3.6	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: P731206 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-3S-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°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.5
85°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.4	6.4	6.3	6.2
82.5°	11.1	11.1	11.2	11.2	11.2	11.1	11.1	11.0	10.9	10.7	10.5
80°	17.5	17.6	17.7	17.7	17.7	17.6	17.5	17.3	17.1	16.8	16.5
77.5°	30.1	30.4	30.6	30.7	30.6	30.4	30.1	29.7	29.1	28.5	27.6
75°	73.1	74.4	75.1	75.4	75.1	74.4	73.1	71.2	68.9	66.1	62.7
72.5°	158.3	161.4	163.2	163.8	163.2	161.4	158.3	154.1	148.7	142.1	134.3
70°	267.5	272.0	274.6	275.5	274.6	272.0	267.5	261.4	253.4	243.8	232.5
67.5°	375.6	380.5	383.4	384.4	383.4	380.5	375.6	368.7	359.9	349.3	336.7
65°	509.6	516.6	520.8	522.2	520.8	516.6	509.6	499.9	487.4	472.2	454.4
62.5°	648.4	656.3	661.1	662.7	661.1	656.3	648.4	637.3	623.1	605.8	585.6
60°	784.1	792.7	797.9	799.6	797.9	792.7	784.1	772.1	756.8	738.2	716.4
57.5°	947.9	959.6	966.6	969.0	966.6	959.6	947.9	931.5	910.6	885.3	855.6
55°	1121.6	1135.0	1143.1	1145.8	1143.1	1135.0	1121.6	1102.9	1078.9	1049.9	1015.9
52.5°	1270.8	1283.1	1290.4	1292.9	1290.4	1283.1	1270.8	1253.8	1232.0	1205.6	1174.7
50°	1394.8	1405.9	1412.6	1414.8	1412.6	1405.9	1394.8	1379.4	1359.7	1335.8	1308.0
47.5°	2027.7	2101.7	2146.4	2161.3	2146.4	2101.7	2027.7	1924.6	1793.3	1634.5	1449.1
45°	2656.5	2723.0	2763.2	2776.6	2763.2	2723.0	2656.5	2564.0	2446.2	2303.9	2133.2
42.5°	2975.2	3004.9	3022.9	3028.9	3022.9	3004.9	2975.2	2933.9	2881.4	2818.0	2698.0
40°	3234.7	3269.1	3289.9	3296.9	3289.9	3269.1	3234.7	3186.9	3126.2	3053.2	2972.0
37.5°	3542.1	3588.3	3616.2	3625.5	3616.2	3588.3	3542.1	3478.3	3397.3	3300.1	3207.8
35°	3940.8	4007.8	4048.4	4062.0	4048.4	4007.8	3940.8	3848.2	3731.1	3599.4	3477.5
32.5°	4603.2	4734.2	4813.6	4840.2	4813.6	4734.2	4603.2	4422.5	4194.8	3984.0	3808.5
30°	5648.1	5873.2	6009.9	6055.8	6009.9	5873.2	5648.1	5338.6	4949.7	4614.2	4275.0
27.5°	8240.0	8950.2	9382.6	9527.8	9382.6	8950.2	8240.0	7266.9	6053.6	5549.0	4973.7
25°	14303.7	16150.0	17277.9	17657.4	17277.9	16150.0	14303.7	11784.7	9152.8	7577.2	5963.3
22.5°	24696.5	28019.0	30057.3	30744.6	30057.3	28019.0	24696.5	20189.8	15769.9	11727.0	8524.7
20°	39183.8	44239.4	47358.9	48414.1	47358.9	44239.4	39183.8	32379.1	25779.3	18630.0	13310.0
17.5°	56529.8	63093.4	67176.9	68564.3	67176.9	63093.4	56529.8	47864.8	38579.4	28677.2	19996.5
15°	74482.7	81716.0	86270.3	87828.3	86270.3	81716.0	74482.7	64825.6	52981.9	40706.1	28677.2
12.5°	91795.7	101898.2	108677.5	111015.7	108677.5	101898.2	91795.7	80447.0	67702.1	52981.9	38579.4
10°	111235.8	124134.3	133601.4	137008.5	133601.4	124134.3	111235.8	95650.9	80447.0	64825.6	47864.8
7.5°	130394.9	147807.5	157439.2	160298.8	157439.2	147807.5	130394.9	111235.8	91795.7	74482.7	56529.8
5°	147807.5	163370.9	172279.6	175361.6	172279.6	163370.9	147807.5	124134.3	101898.2	81716.0	63093.4
2.5°	157439.2	172279.6	184645.5	193036.7	184645.5	172279.6	157439.2	133601.4	108677.5	86270.3	67176.9
0°	160298.8	175361.6	193036.7	204811.4	193036.7	175361.6	160298.8	137008.5	111015.7	87828.3	68564.3
-2.5°	157439.2	172279.6	184645.5	193036.7	184645.5	172279.6	157439.2	133601.4	108677.5	86270.3	67176.9
-5°	147807.5	163370.9	172279.6	175361.6	172279.6	163370.9	147807.5	124134.3	101898.2	81716.0	63093.4
-7.5°	130394.9	147807.5	157439.2	160298.8	157439.2	147807.5	130394.9	111235.8	91795.7	74482.7	56529.8
-10°	111235.8	124134.3	133601.4	137008.5	133601.4	124134.3	111235.8	95650.9	80447.0	64825.6	47864.8
-12.5°	91795.7	101898.2	108677.5	111015.7	108677.5	101898.2	91795.7	80447.0	67702.1	52981.9	38579.4
-15°	74482.7	81716.0	86270.3	87828.3	86270.3	81716.0	74482.7	64825.6	52981.9	40706.1	28677.2
-17.5°	56529.8	63093.4	67176.9	68564.3	67176.9	63093.4	56529.8	47864.8	38579.4	28677.2	19996.5
-20°	39183.8	44239.4	47358.9	48414.1	47358.9	44239.4	39183.8	32379.1	25779.3	18630.0	13310.0



REPORT NUMBER: P731206 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-3S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	24696.5	28019.0	30057.3	30744.6	30057.3	28019.0	24696.5	20189.8	15769.9	11727.0	8524.7
-25°	14303.7	16150.0	17277.9	17657.4	17277.9	16150.0	14303.7	11784.7	9152.8	7577.2	5963.3
-27.5°	8240.0	8950.2	9382.6	9527.8	9382.6	8950.2	8240.0	7266.9	6053.6	5549.0	4973.7
-30°	5648.1	5873.2	6009.9	6055.8	6009.9	5873.2	5648.1	5338.6	4949.7	4614.2	4275.0
-32.5°	4603.2	4734.2	4813.6	4840.2	4813.6	4734.2	4603.2	4422.5	4194.8	3984.0	3808.5
-35°	3940.8	4007.8	4048.4	4062.0	4048.4	4007.8	3940.8	3848.2	3731.1	3599.4	3477.5
-37.5°	3542.1	3588.3	3616.2	3625.5	3616.2	3588.3	3542.1	3478.3	3397.3	3300.1	3207.8
-40°	3234.7	3269.1	3289.9	3296.9	3289.9	3269.1	3234.7	3186.9	3126.2	3053.2	2972.0
-42.5°	2975.2	3004.9	3022.9	3028.9	3022.9	3004.9	2975.2	2933.9	2881.4	2818.0	2698.0
-45°	2656.5	2723.0	2763.2	2776.6	2763.2	2723.0	2656.5	2564.0	2446.2	2303.9	2133.2
-47.5°	2027.7	2101.7	2146.4	2161.3	2146.4	2101.7	2027.7	1924.6	1793.3	1634.5	1449.1
-50°	1394.8	1405.9	1412.6	1414.8	1412.6	1405.9	1394.8	1379.4	1359.7	1335.8	1308.0
-52.5°	1270.8	1283.1	1290.4	1292.9	1290.4	1283.1	1270.8	1253.8	1232.0	1205.6	1174.7
-55°	1121.6	1135.0	1143.1	1145.8	1143.1	1135.0	1121.6	1102.9	1078.9	1049.9	1015.9
-57.5°	947.9	959.6	966.6	969.0	966.6	959.6	947.9	931.5	910.6	885.3	855.6
-60°	784.1	792.7	797.9	799.6	797.9	792.7	784.1	772.1	756.8	738.2	716.4
-62.5°	648.4	656.3	661.1	662.7	661.1	656.3	648.4	637.3	623.1	605.8	585.6
-65°	509.6	516.6	520.8	522.2	520.8	516.6	509.6	499.9	487.4	472.2	454.4
-67.5°	375.6	380.5	383.4	384.4	383.4	380.5	375.6	368.7	359.9	349.3	336.7
-70°	267.5	272.0	274.6	275.5	274.6	272.0	267.5	261.4	253.4	243.8	232.5
-72.5°	158.3	161.4	163.2	163.8	163.2	161.4	158.3	154.1	148.7	142.1	134.3
-75°	73.1	74.4	75.1	75.4	75.1	74.4	73.1	71.2	68.9	66.1	62.7
-77.5°	30.1	30.4	30.6	30.7	30.6	30.4	30.1	29.7	29.1	28.5	27.6
-80°	17.5	17.6	17.7	17.7	17.7	17.6	17.5	17.3	17.1	16.8	16.5
-82.5°	11.1	11.1	11.2	11.2	11.2	11.1	11.1	11.0	10.9	10.7	10.5
-85°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.4	6.4	6.3	6.2
-87.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.5
-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):

	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°	3.5	3.4	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6
85°	6.2	6.1	6.0	5.9	5.7	5.6	5.5	5.3	5.2	5.0	4.9
82.5°	10.3	10.1	9.9	9.6	9.3	9.0	8.6	8.3	7.9	7.5	7.1
80°	16.1	15.7	15.2	14.7	14.2	13.6	13.0	12.3	11.6	10.9	10.4
77.5°	26.7	25.7	24.5	23.3	21.9	20.4	18.8	17.4	16.5	15.6	14.6
75°	58.9	54.6	49.8	44.5	38.8	32.6	29.3	27.3	25.2	22.9	20.5
72.5°	125.4	115.4	104.2	92.0	78.8	69.9	62.2	54.0	45.3	36.2	29.5
70°	219.5	204.9	188.7	171.0	154.2	137.8	120.3	101.7	82.1	68.3	57.4
67.5°	322.4	306.2	288.3	268.5	246.7	223.2	198.2	171.6	147.8	124.5	100.1
65°	434.0	411.0	385.6	363.3	339.5	313.9	286.6	257.2	225.9	193.1	159.8
62.5°	562.4	536.4	507.8	476.9	443.4	407.5	372.4	340.4	306.6	271.2	233.4
60°	691.4	663.4	631.6	596.8	559.2	519.0	476.9	432.4	385.6	346.6	306.2
57.5°	821.6	786.6	752.6	715.4	675.3	631.6	584.7	535.2	483.9	430.5	377.0
55°	977.1	935.1	889.1	839.0	787.8	741.0	691.4	638.4	582.0	523.1	463.1
52.5°	1138.2	1090.9	1038.7	981.9	922.7	860.1	794.8	738.2	679.0	616.0	550.1
50°	1272.8	1230.0	1182.9	1128.9	1062.8	992.2	919.7	844.4	772.1	705.9	636.5
47.5°	1386.0	1347.6	1305.4	1252.7	1193.4	1127.1	1046.9	962.9	878.7	792.7	719.4
45°	1904.8	1650.5	1407.8	1358.5	1305.6	1240.5	1169.1	1083.8	990.1	895.9	799.6
42.5°	2494.4	2268.1	1990.6	1666.2	1399.2	1339.2	1272.5	1192.7	1102.5	999.2	895.9
40°	2881.7	2781.7	2522.9	2236.1	1880.8	1488.4	1359.5	1288.6	1200.6	1102.5	990.1
37.5°	3104.2	2992.1	2874.9	2709.1	2382.4	2011.5	1573.8	1366.4	1288.6	1192.7	1083.8
35°	3340.5	3209.3	3075.7	2938.3	2795.4	2456.3	2055.3	1573.8	1359.5	1272.5	1169.1
32.5°	3615.3	3452.9	3280.9	3128.1	2970.3	2811.1	2456.3	2011.5	1488.4	1339.2	1240.5
30°	3969.2	3737.2	3521.7	3321.9	3145.8	2970.3	2795.4	2382.4	1880.8	1399.2	1305.6
27.5°	4517.0	4072.5	3800.9	3544.8	3321.9	3128.1	2938.3	2709.1	2236.1	1666.2	1358.5
25°	5273.8	4640.4	4131.9	3800.9	3521.7	3280.9	3075.7	2874.9	2522.9	1990.6	1407.8
22.5°	6397.2	5375.2	4640.4	4072.5	3737.2	3452.9	3209.3	2992.1	2781.7	2268.1	1650.5
20°	8846.1	6397.2	5273.8	4517.0	3969.2	3615.3	3340.5	3104.2	2881.7	2494.4	1904.8
17.5°	13310.0	8524.7	5963.3	4973.7	4275.0	3808.5	3477.5	3207.8	2972.0	2698.0	2133.2
15°	18630.0	11727.0	7577.2	5549.0	4614.2	3984.0	3599.4	3300.1	3053.2	2818.0	2303.9
12.5°	25779.3	15769.9	9152.8	6053.6	4949.7	4194.8	3731.1	3397.3	3126.2	2881.4	2446.2
10°	32379.1	20189.8	11784.7	7266.9	5338.6	4422.5	3848.2	3478.3	3186.9	2933.9	2564.0
7.5°	39183.8	24696.5	14303.7	8240.0	5648.1	4603.2	3940.8	3542.1	3234.7	2975.2	2656.5
5°	44239.4	28019.0	16150.0	8950.2	5873.2	4734.2	4007.8	3588.3	3269.1	3004.9	2723.0
2.5°	47358.9	30057.3	17277.9	9382.6	6009.9	4813.6	4048.4	3616.2	3289.9	3022.9	2763.2
0°	48414.1	30744.6	17657.4	9527.8	6055.8	4840.2	4062.0	3625.5	3296.9	3028.9	2776.6
-2.5°	47358.9	30057.3	17277.9	9382.6	6009.9	4813.6	4048.4	3616.2	3289.9	3022.9	2763.2
-5°	44239.4	28019.0	16150.0	8950.2	5873.2	4734.2	4007.8	3588.3	3269.1	3004.9	2723.0
-7.5°	39183.8	24696.5	14303.7	8240.0	5648.1	4603.2	3940.8	3542.1	3234.7	2975.2	2656.5
-10°	32379.1	20189.8	11784.7	7266.9	5338.6	4422.5	3848.2	3478.3	3186.9	2933.9	2564.0
-12.5°	25779.3	15769.9	9152.8	6053.6	4949.7	4194.8	3731.1	3397.3	3126.2	2881.4	2446.2
-15°	18630.0	11727.0	7577.2	5549.0	4614.2	3984.0	3599.4	3300.1	3053.2	2818.0	2303.9
-17.5°	13310.0	8524.7	5963.3	4973.7	4275.0	3808.5	3477.5	3207.8	2972.0	2698.0	2133.2
-20°	8846.1	6397.2	5273.8	4517.0	3969.2	3615.3	3340.5	3104.2	2881.7	2494.4	1904.8



REPORT NUMBER: P731206 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-3S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	6397.2	5375.2	4640.4	4072.5	3737.2	3452.9	3209.3	2992.1	2781.7	2268.1	1650.5
-25°	5273.8	4640.4	4131.9	3800.9	3521.7	3280.9	3075.7	2874.9	2522.9	1990.6	1407.8
-27.5°	4517.0	4072.5	3800.9	3544.8	3321.9	3128.1	2938.3	2709.1	2236.1	1666.2	1358.5
-30°	3969.2	3737.2	3521.7	3321.9	3145.8	2970.3	2795.4	2382.4	1880.8	1399.2	1305.6
-32.5°	3615.3	3452.9	3280.9	3128.1	2970.3	2811.1	2456.3	2011.5	1488.4	1339.2	1240.5
-35°	3340.5	3209.3	3075.7	2938.3	2795.4	2456.3	2055.3	1573.8	1359.5	1272.5	1169.1
-37.5°	3104.2	2992.1	2874.9	2709.1	2382.4	2011.5	1573.8	1366.4	1288.6	1192.7	1083.8
-40°	2881.7	2781.7	2522.9	2236.1	1880.8	1488.4	1359.5	1288.6	1200.6	1102.5	990.1
-42.5°	2494.4	2268.1	1990.6	1666.2	1399.2	1339.2	1272.5	1192.7	1102.5	999.2	895.9
-45°	1904.8	1650.5	1407.8	1358.5	1305.6	1240.5	1169.1	1083.8	990.1	895.9	799.6
-47.5°	1386.0	1347.6	1305.4	1252.7	1193.4	1127.1	1046.9	962.9	878.7	792.7	719.4
-50°	1272.8	1230.0	1182.9	1128.9	1062.8	992.2	919.7	844.4	772.1	705.9	636.5
-52.5°	1138.2	1090.9	1038.7	981.9	922.7	860.1	794.8	738.2	679.0	616.0	550.1
-55°	977.1	935.1	889.1	839.0	787.8	741.0	691.4	638.4	582.0	523.1	463.1
-57.5°	821.6	786.6	752.6	715.4	675.3	631.6	584.7	535.2	483.9	430.5	377.0
-60°	691.4	663.4	631.6	596.8	559.2	519.0	476.9	432.4	385.6	346.6	306.2
-62.5°	562.4	536.4	507.8	476.9	443.4	407.5	372.4	340.4	306.6	271.2	233.4
-65°	434.0	411.0	385.6	363.3	339.5	313.9	286.6	257.2	225.9	193.1	159.8
-67.5°	322.4	306.2	288.3	268.5	246.7	223.2	198.2	171.6	147.8	124.5	100.1
-70°	219.5	204.9	188.7	171.0	154.2	137.8	120.3	101.7	82.1	68.3	57.4
-72.5°	125.4	115.4	104.2	92.0	78.8	69.9	62.2	54.0	45.3	36.2	29.5
-75°	58.9	54.6	49.8	44.5	38.8	32.6	29.3	27.3	25.2	22.9	20.5
-77.5°	26.7	25.7	24.5	23.3	21.9	20.4	18.8	17.4	16.5	15.6	14.6
-80°	16.1	15.7	15.2	14.7	14.2	13.6	13.0	12.3	11.6	10.9	10.4
-82.5°	10.3	10.1	9.9	9.6	9.3	9.0	8.6	8.3	7.9	7.5	7.1
-85°	6.2	6.1	6.0	5.9	5.7	5.6	5.5	5.3	5.2	5.0	4.9
-87.5°	3.5	3.4	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6
-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: P731206 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-3S-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°	2.5	2.4	2.3	2.1	2.0	1.8	1.7	1.6	1.4	1.3	1.1
85°	4.7	4.5	4.3	4.1	3.9	3.7	3.4	3.1	2.8	2.5	2.2
82.5°	6.6	6.3	6.0	5.7	5.4	5.1	4.8	4.4	4.1	3.8	3.3
80°	9.8	9.1	8.5	7.8	7.2	6.5	6.1	5.6	5.2	4.7	4.3
77.5°	13.6	12.5	11.4	10.5	9.7	8.8	7.9	7.0	6.2	5.7	5.1
75°	18.1	16.6	15.3	13.9	12.5	11.1	10.0	8.9	7.8	6.6	5.9
72.5°	26.7	23.7	20.5	17.5	15.9	14.2	12.5	10.8	9.5	8.2	6.9
70°	46.1	34.3	28.2	24.5	20.8	17.3	15.3	13.3	11.3	9.7	8.2
67.5°	75.1	61.8	48.1	33.9	27.4	23.1	18.6	15.9	13.6	11.3	9.5
65°	131.6	102.4	73.8	58.0	41.9	29.1	24.2	19.2	15.9	13.3	10.8
62.5°	194.0	155.5	122.3	88.1	64.0	45.9	29.7	24.2	18.6	15.3	12.5
60°	264.0	219.5	173.7	134.3	96.0	66.1	45.9	29.1	23.1	17.3	14.2
57.5°	331.4	284.4	234.9	183.9	138.3	96.0	64.0	41.9	27.4	20.8	15.9
55°	400.9	346.7	294.5	240.1	183.9	134.3	88.1	58.0	33.9	24.5	17.5
52.5°	482.8	413.9	351.8	294.5	234.9	173.7	122.3	73.8	48.1	28.2	20.5
50°	563.7	489.4	413.9	346.7	284.4	219.5	155.5	102.4	61.8	34.3	23.7
47.5°	643.4	563.7	482.8	400.9	331.4	264.0	194.0	131.6	75.1	46.1	26.7
45°	719.4	636.5	550.1	463.1	377.0	306.2	233.4	159.8	100.1	57.4	29.5
42.5°	792.7	705.9	616.0	523.1	430.5	346.6	271.2	193.1	124.5	68.3	36.2
40°	878.7	772.1	679.0	582.0	483.9	385.6	306.6	225.9	147.8	82.1	45.3
37.5°	962.9	844.4	738.2	638.4	535.2	432.4	340.4	257.2	171.6	101.7	54.0
35°	1046.9	919.7	794.8	691.4	584.7	476.9	372.4	286.6	198.2	120.3	62.2
32.5°	1127.1	992.2	860.1	741.0	631.6	519.0	407.5	313.9	223.2	137.8	69.9
30°	1193.4	1062.8	922.7	787.8	675.3	559.2	443.4	339.5	246.7	154.2	78.8
27.5°	1252.7	1128.9	981.9	839.0	715.4	596.8	476.9	363.3	268.5	171.0	92.0
25°	1305.4	1182.9	1038.7	889.1	752.6	631.6	507.8	385.6	288.3	188.7	104.2
22.5°	1347.6	1230.0	1090.9	935.1	786.6	663.4	536.4	411.0	306.2	204.9	115.4
20°	1386.0	1272.8	1138.2	977.1	821.6	691.4	562.4	434.0	322.4	219.5	125.4
17.5°	1449.1	1308.0	1174.7	1015.9	855.6	716.4	585.6	454.4	336.7	232.5	134.3
15°	1634.5	1335.8	1205.6	1049.9	885.3	738.2	605.8	472.2	349.3	243.8	142.1
12.5°	1793.3	1359.7	1232.0	1078.9	910.6	756.8	623.1	487.4	359.9	253.4	148.7
10°	1924.6	1379.4	1253.8	1102.9	931.5	772.1	637.3	499.9	368.7	261.4	154.1
7.5°	2027.7	1394.8	1270.8	1121.6	947.9	784.1	648.4	509.6	375.6	267.5	158.3
5°	2101.7	1405.9	1283.1	1135.0	959.6	792.7	656.3	516.6	380.5	272.0	161.4
2.5°	2146.4	1412.6	1290.4	1143.1	966.6	797.9	661.1	520.8	383.4	274.6	163.2
0°	2161.3	1414.8	1292.9	1145.8	969.0	799.6	662.7	522.2	384.4	275.5	163.8
-2.5°	2146.4	1412.6	1290.4	1143.1	966.6	797.9	661.1	520.8	383.4	274.6	163.2
-5°	2101.7	1405.9	1283.1	1135.0	959.6	792.7	656.3	516.6	380.5	272.0	161.4
-7.5°	2027.7	1394.8	1270.8	1121.6	947.9	784.1	648.4	509.6	375.6	267.5	158.3
-10°	1924.6	1379.4	1253.8	1102.9	931.5	772.1	637.3	499.9	368.7	261.4	154.1
-12.5°	1793.3	1359.7	1232.0	1078.9	910.6	756.8	623.1	487.4	359.9	253.4	148.7
-15°	1634.5	1335.8	1205.6	1049.9	885.3	738.2	605.8	472.2	349.3	243.8	142.1
-17.5°	1449.1	1308.0	1174.7	1015.9	855.6	716.4	585.6	454.4	336.7	232.5	134.3
-20°	1386.0	1272.8	1138.2	977.1	821.6	691.4	562.4	434.0	322.4	219.5	125.4



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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°	1347.6	1230.0	1090.9	935.1	786.6	663.4	536.4	411.0	306.2	204.9	115.4
-25°	1305.4	1182.9	1038.7	889.1	752.6	631.6	507.8	385.6	288.3	188.7	104.2
-27.5°	1252.7	1128.9	981.9	839.0	715.4	596.8	476.9	363.3	268.5	171.0	92.0
-30°	1193.4	1062.8	922.7	787.8	675.3	559.2	443.4	339.5	246.7	154.2	78.8
-32.5°	1127.1	992.2	860.1	741.0	631.6	519.0	407.5	313.9	223.2	137.8	69.9
-35°	1046.9	919.7	794.8	691.4	584.7	476.9	372.4	286.6	198.2	120.3	62.2
-37.5°	962.9	844.4	738.2	638.4	535.2	432.4	340.4	257.2	171.6	101.7	54.0
-40°	878.7	772.1	679.0	582.0	483.9	385.6	306.6	225.9	147.8	82.1	45.3
-42.5°	792.7	705.9	616.0	523.1	430.5	346.6	271.2	193.1	124.5	68.3	36.2
-45°	719.4	636.5	550.1	463.1	377.0	306.2	233.4	159.8	100.1	57.4	29.5
-47.5°	643.4	563.7	482.8	400.9	331.4	264.0	194.0	131.6	75.1	46.1	26.7
-50°	563.7	489.4	413.9	346.7	284.4	219.5	155.5	102.4	61.8	34.3	23.7
-52.5°	482.8	413.9	351.8	294.5	234.9	173.7	122.3	73.8	48.1	28.2	20.5
-55°	400.9	346.7	294.5	240.1	183.9	134.3	88.1	58.0	33.9	24.5	17.5
-57.5°	331.4	284.4	234.9	183.9	138.3	96.0	64.0	41.9	27.4	20.8	15.9
-60°	264.0	219.5	173.7	134.3	96.0	66.1	45.9	29.1	23.1	17.3	14.2
-62.5°	194.0	155.5	122.3	88.1	64.0	45.9	29.7	24.2	18.6	15.3	12.5
-65°	131.6	102.4	73.8	58.0	41.9	29.1	24.2	19.2	15.9	13.3	10.8
-67.5°	75.1	61.8	48.1	33.9	27.4	23.1	18.6	15.9	13.6	11.3	9.5
-70°	46.1	34.3	28.2	24.5	20.8	17.3	15.3	13.3	11.3	9.7	8.2
-72.5°	26.7	23.7	20.5	17.5	15.9	14.2	12.5	10.8	9.5	8.2	6.9
-75°	18.1	16.6	15.3	13.9	12.5	11.1	10.0	8.9	7.8	6.6	5.9
-77.5°	13.6	12.5	11.4	10.5	9.7	8.8	7.9	7.0	6.2	5.7	5.1
-80°	9.8	9.1	8.5	7.8	7.2	6.5	6.1	5.6	5.2	4.7	4.3
-82.5°	6.6	6.3	6.0	5.7	5.4	5.1	4.8	4.4	4.1	3.8	3.3
-85°	4.7	4.5	4.3	4.1	3.9	3.7	3.4	3.1	2.8	2.5	2.2
-87.5°	2.5	2.4	2.3	2.1	2.0	1.8	1.7	1.6	1.4	1.3	1.1
-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°	1.0	0.8	0.6	0.5	0.3	0.2	0.0
85°	1.9	1.6	1.3	1.0	0.6	0.3	0.0
82.5°	2.9	2.4	1.9	1.4	1.0	0.5	0.0
80°	3.8	3.2	2.6	1.9	1.3	0.6	0.0
77.5°	4.5	3.9	3.2	2.4	1.6	0.8	0.0
75°	5.2	4.5	3.8	2.9	1.9	1.0	0.0
72.5°	5.9	5.1	4.3	3.3	2.2	1.1	0.0
70°	6.6	5.7	4.7	3.8	2.5	1.3	0.0
67.5°	7.8	6.2	5.2	4.1	2.8	1.4	0.0
65°	8.9	7.0	5.6	4.4	3.1	1.6	0.0
62.5°	10.0	7.9	6.1	4.8	3.4	1.7	0.0
60°	11.1	8.8	6.5	5.1	3.7	1.8	0.0
57.5°	12.5	9.7	7.2	5.4	3.9	2.0	0.0
55°	13.9	10.5	7.8	5.7	4.1	2.1	0.0
52.5°	15.3	11.4	8.5	6.0	4.3	2.3	0.0
50°	16.6	12.5	9.1	6.3	4.5	2.4	0.0
47.5°	18.1	13.6	9.8	6.6	4.7	2.5	0.0
45°	20.5	14.6	10.4	7.1	4.9	2.6	0.0
42.5°	22.9	15.6	10.9	7.5	5.0	2.7	0.0
40°	25.2	16.5	11.6	7.9	5.2	2.8	0.0
37.5°	27.3	17.4	12.3	8.3	5.3	2.9	0.0
35°	29.3	18.8	13.0	8.6	5.5	3.0	0.0
32.5°	32.6	20.4	13.6	9.0	5.6	3.1	0.0
30°	38.8	21.9	14.2	9.3	5.7	3.2	0.0
27.5°	44.5	23.3	14.7	9.6	5.9	3.3	0.0
25°	49.8	24.5	15.2	9.9	6.0	3.4	0.0
22.5°	54.6	25.7	15.7	10.1	6.1	3.4	0.0
20°	58.9	26.7	16.1	10.3	6.2	3.5	0.0
17.5°	62.7	27.6	16.5	10.5	6.2	3.5	0.0
15°	66.1	28.5	16.8	10.7	6.3	3.6	0.0
12.5°	68.9	29.1	17.1	10.9	6.4	3.6	0.0
10°	71.2	29.7	17.3	11.0	6.4	3.6	0.0
7.5°	73.1	30.1	17.5	11.1	6.5	3.7	0.0
5°	74.4	30.4	17.6	11.1	6.5	3.7	0.0
2.5°	75.1	30.6	17.7	11.2	6.5	3.7	0.0
0°	75.4	30.7	17.7	11.2	6.5	3.7	0.0
-2.5°	75.1	30.6	17.7	11.2	6.5	3.7	0.0
-5°	74.4	30.4	17.6	11.1	6.5	3.7	0.0
-7.5°	73.1	30.1	17.5	11.1	6.5	3.7	0.0
-10°	71.2	29.7	17.3	11.0	6.4	3.6	0.0
-12.5°	68.9	29.1	17.1	10.9	6.4	3.6	0.0
-15°	66.1	28.5	16.8	10.7	6.3	3.6	0.0
-17.5°	62.7	27.6	16.5	10.5	6.2	3.5	0.0
-20°	58.9	26.7	16.1	10.3	6.2	3.5	0.0



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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-3S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	54.6	25.7	15.7	10.1	6.1	3.4	0.0
-25°	49.8	24.5	15.2	9.9	6.0	3.4	0.0
-27.5°	44.5	23.3	14.7	9.6	5.9	3.3	0.0
-30°	38.8	21.9	14.2	9.3	5.7	3.2	0.0
-32.5°	32.6	20.4	13.6	9.0	5.6	3.1	0.0
-35°	29.3	18.8	13.0	8.6	5.5	3.0	0.0
-37.5°	27.3	17.4	12.3	8.3	5.3	2.9	0.0
-40°	25.2	16.5	11.6	7.9	5.2	2.8	0.0
-42.5°	22.9	15.6	10.9	7.5	5.0	2.7	0.0
-45°	20.5	14.6	10.4	7.1	4.9	2.6	0.0
-47.5°	18.1	13.6	9.8	6.6	4.7	2.5	0.0
-50°	16.6	12.5	9.1	6.3	4.5	2.4	0.0
-52.5°	15.3	11.4	8.5	6.0	4.3	2.3	0.0
-55°	13.9	10.5	7.8	5.7	4.1	2.1	0.0
-57.5°	12.5	9.7	7.2	5.4	3.9	2.0	0.0
-60°	11.1	8.8	6.5	5.1	3.7	1.8	0.0
-62.5°	10.0	7.9	6.1	4.8	3.4	1.7	0.0
-65°	8.9	7.0	5.6	4.4	3.1	1.6	0.0
-67.5°	7.8	6.2	5.2	4.1	2.8	1.4	0.0
-70°	6.6	5.7	4.7	3.8	2.5	1.3	0.0
-72.5°	5.9	5.1	4.3	3.3	2.2	1.1	0.0
-75°	5.2	4.5	3.8	2.9	1.9	1.0	0.0
-77.5°	4.5	3.9	3.2	2.4	1.6	0.8	0.0
-80°	3.8	3.2	2.6	1.9	1.3	0.6	0.0
-82.5°	2.9	2.4	1.9	1.4	1.0	0.5	0.0
-85°	1.9	1.6	1.3	1.0	0.6	0.3	0.0
-87.5°	1.0	0.8	0.6	0.5	0.3	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

