

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: P731207 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-80-4S-HEG**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731207 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-40-80-4S-HEG
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 4S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

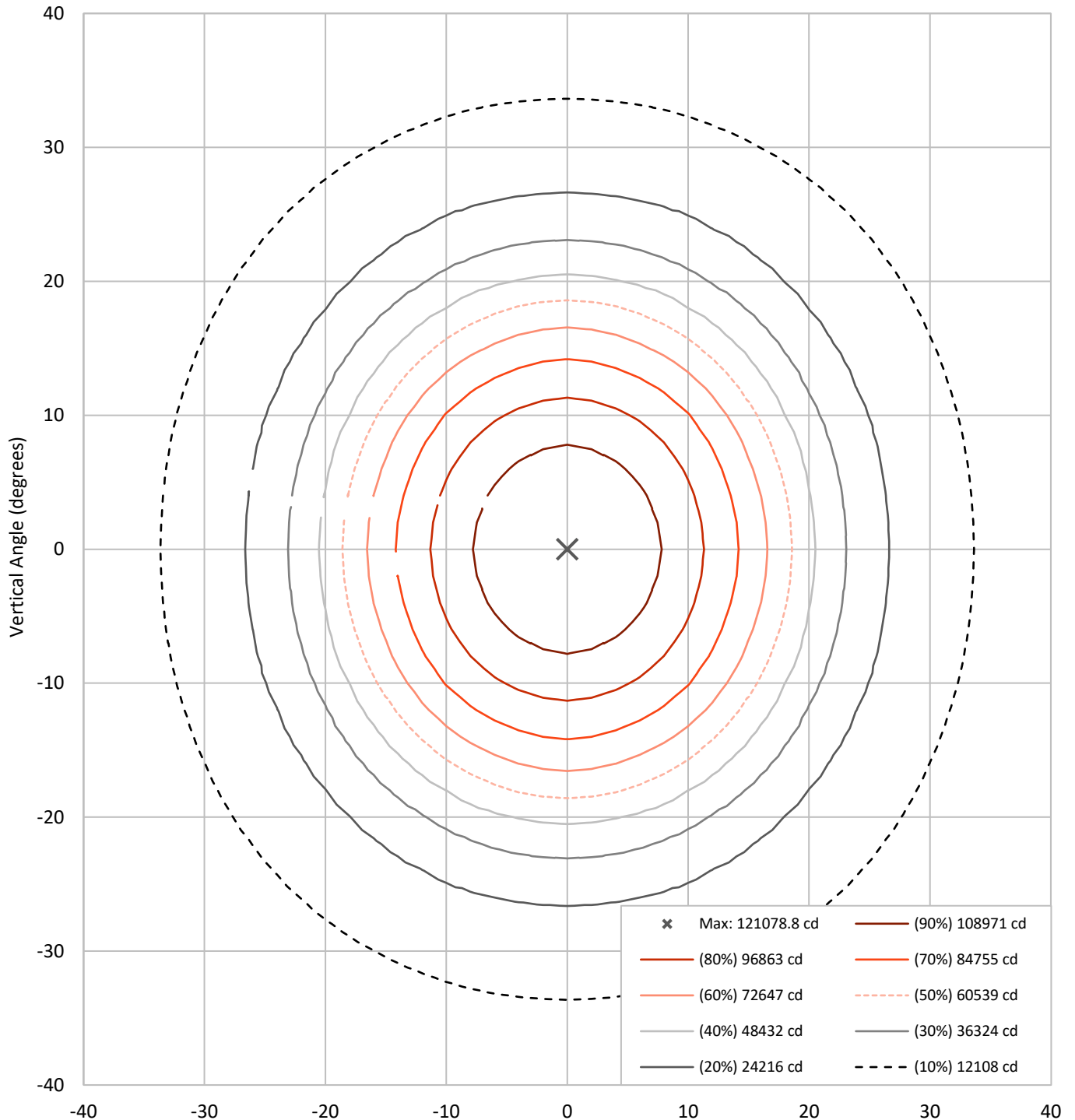
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	55915.4 lumens	Max Intensity:	121078.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	161.7 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:	29109 lumens	Field Lumens:	48898.3 lumens
Beam Efficiency:	52.1%	Field Efficiency:	87.5%

Input Watts (W): 345.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Candela Plot





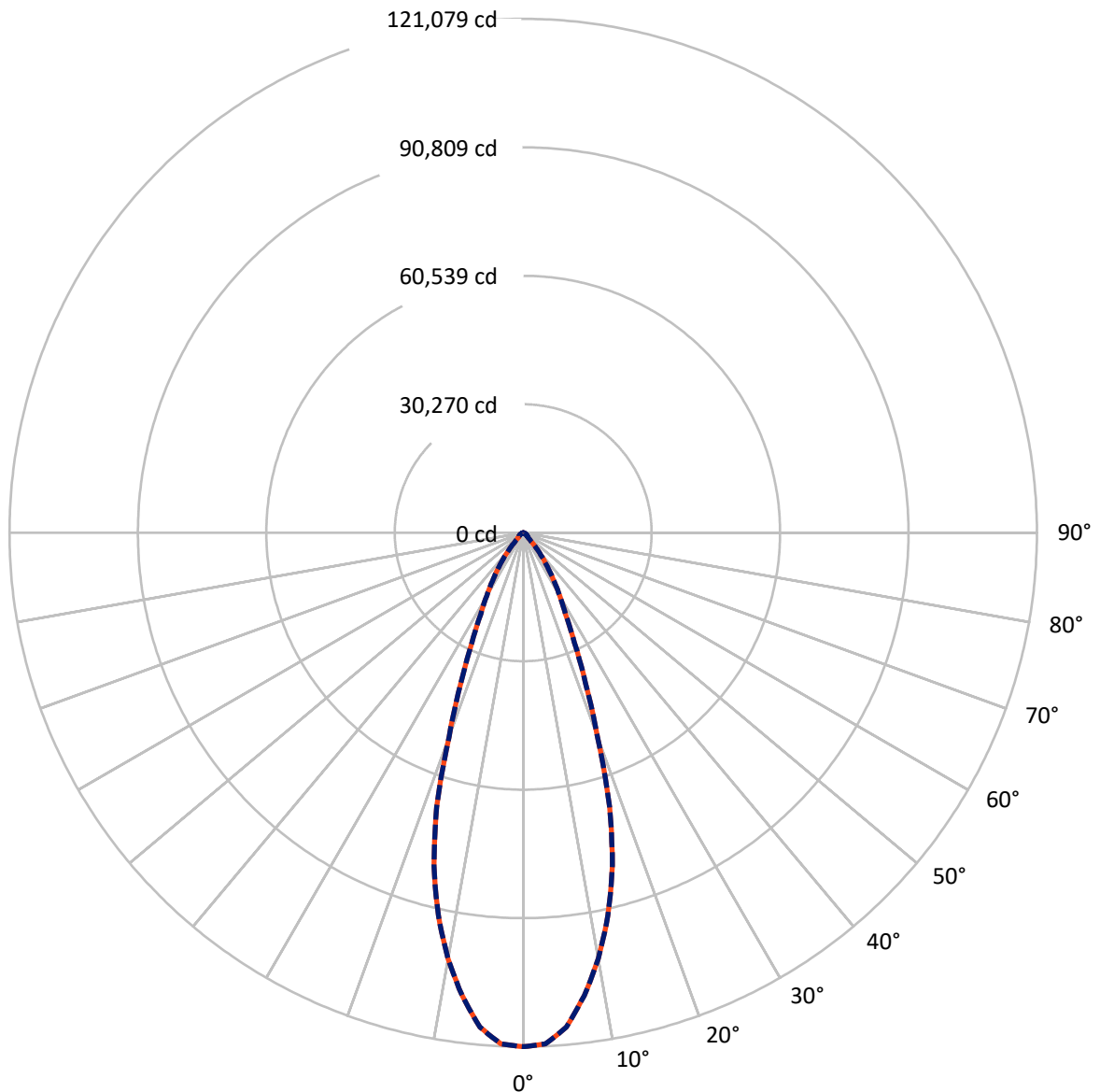
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Lumen Table

90	0.1	0.4	1.7	4.0	5.2	4.0	1.7	0.4	0.1							
80	0.1	0.4	1.7	4.0	5.2	4.0	1.7	0.4	0.1							
70	0.2	0.3	1.0	2.8	5.8	9.4	12.6	14.4	14.4	12.6	9.4	5.8	2.8	1.0	0.3	0.2
60		0.8	3.3	9.0	16.5	23.2	28.1	30.9	30.9	28.1	23.2	16.5	9.0	3.3	0.8	
50	0.6	1.7	7.4	16.8	26.1	36.2	51.9	68.5	68.5	51.9	36.2	26.1	16.8	7.4	1.7	0.6
40		3.1	11.7	22.5	39.1	105.2	222.6	308.7	308.7	222.6	105.2	39.1	22.5	11.7	3.1	
30	1.2	4.6	14.8	28.3	95.8	299.2	585.2	870.2	870.2	585.2	299.2	95.8	28.3	14.8	4.6	1.2
20		5.7	16.9	38.5	190.6	551.0	1364.6	2240.0	2240.0	1364.6	551.0	190.6	38.5	16.9	5.7	
10	1.4	6.3	17.9	49.6	256.5	796.7	2176.7	3278.8	3278.8	2176.7	796.7	256.5	49.6	17.9	6.3	1.4
0		6.3	17.9	49.6	256.5	796.7	2176.7	3278.8	3278.8	2176.7	796.7	256.5	49.6	17.9	6.3	
-10	1.2	5.7	16.9	38.5	190.6	551.0	1364.6	2240.0	2240.0	1364.6	551.0	190.6	38.5	16.9	5.7	1.2
-20		4.6	14.8	28.3	95.8	299.2	585.2	870.2	870.2	585.2	299.2	95.8	28.3	14.8	4.6	
-30	0.6	3.1	11.7	22.5	39.1	105.2	222.6	308.7	308.7	222.6	105.2	39.1	22.5	11.7	3.1	0.6
-40		1.7	7.4	16.8	26.1	36.2	51.9	68.5	68.5	51.9	36.2	26.1	16.8	7.4	1.7	
-50	0.2	0.8	3.3	9.0	16.5	23.2	28.1	30.9	30.9	28.1	23.2	16.5	9.0	3.3	0.8	0.2
-60		0.3	1.0	2.8	5.8	9.4	12.6	14.4	14.4	12.6	9.4	5.8	2.8	1.0	0.3	
-70	0.1	0.4	1.7	4.0	5.2	4.0	1.7	0.4	0.1							
-80		0.1	0.4	1.7	4.0	5.2	4.0	1.7	0.4	0.1						
-90	0.1	0.4	1.7	4.0	5.2	4.0	1.7	0.4	0.1							

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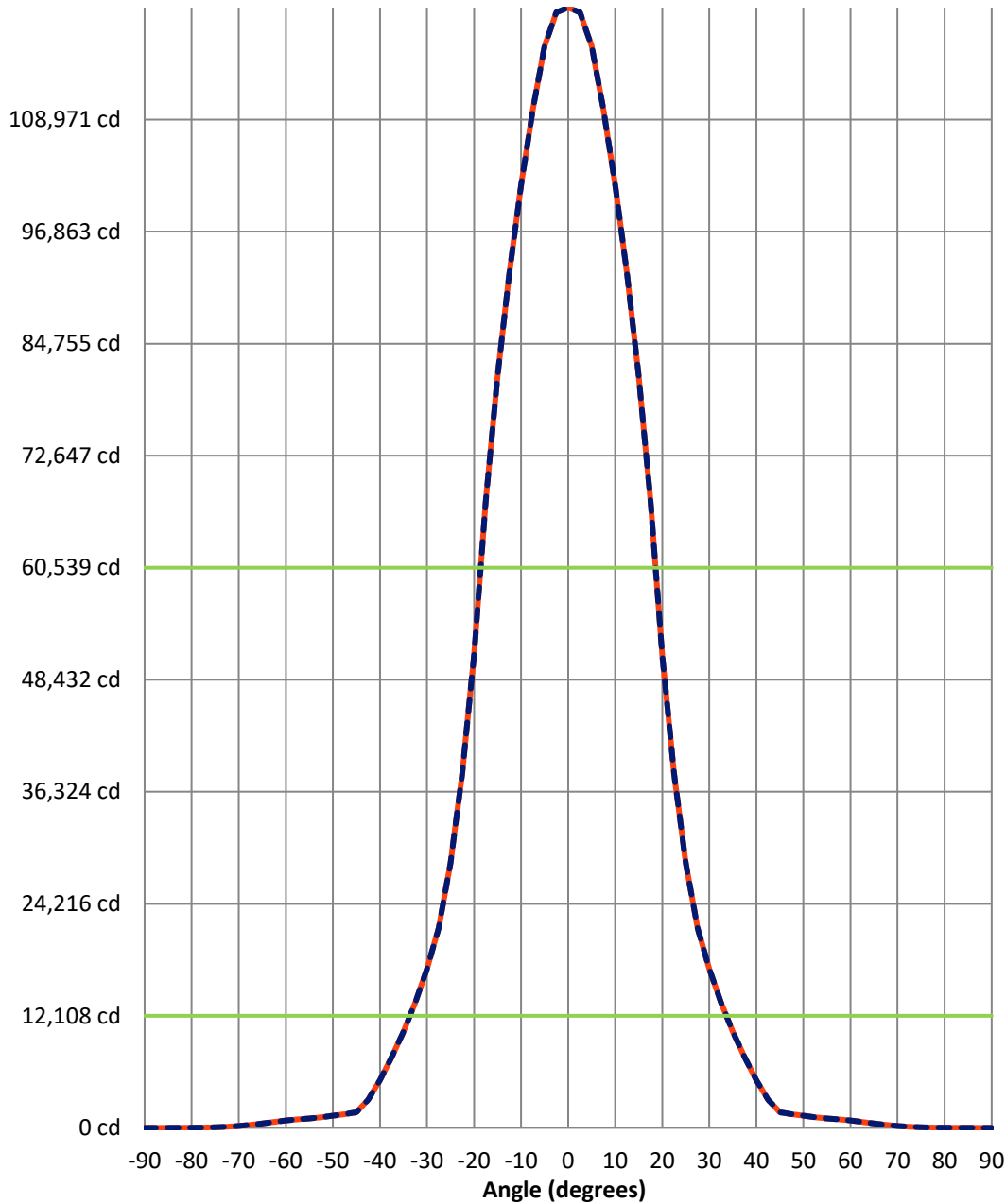
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 37.2°
V Angle: 37.2°
Lumens: 29109
Efficiency: 52.1%

Field:
H Angle: 67.2°
V Angle: 67.2°
Lumens: 48898.3
Efficiency: 87.5%

Spill:
Lumens: 7017.1
Efficiency: 12.5%

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



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.1	0.2	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.2
85°	0.0	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.4
82.5°	0.0	0.4	0.7	1.1	1.5	1.8	2.2	2.5	2.9	3.2	3.5
80°	0.0	0.5	1.0	1.5	1.9	2.4	2.9	3.4	3.8	4.3	4.7
77.5°	0.0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.3	6.1
75°	0.0	0.7	1.4	2.2	2.9	3.6	4.3	5.0	5.7	6.9	8.0
72.5°	0.0	0.8	1.7	2.5	3.4	4.2	5.0	5.9	7.3	8.6	9.8
70°	0.0	1.0	1.9	2.9	3.8	4.8	5.7	7.3	8.8	10.2	11.7
67.5°	0.0	1.1	2.1	3.2	4.3	5.3	6.9	8.6	10.2	11.9	13.6
65°	0.0	1.2	2.4	3.5	4.7	6.1	8.0	9.8	11.7	13.6	16.6
62.5°	0.0	1.3	2.6	3.9	5.2	7.0	9.0	11.1	13.2	16.0	22.4
60°	0.0	1.4	2.8	4.2	5.6	7.8	10.1	12.4	14.6	21.0	28.0
57.5°	0.0	1.5	3.0	4.5	6.3	8.7	11.1	13.6	18.4	26.0	38.9
55°	0.0	1.6	3.2	4.8	6.9	9.5	12.2	14.8	22.7	32.4	52.0
52.5°	0.0	1.7	3.4	5.1	7.6	10.3	13.1	18.2	26.9	43.9	64.8
50°	0.0	1.8	3.6	5.4	8.2	11.1	14.1	21.7	32.7	55.1	81.4
47.5°	0.0	1.9	3.8	5.7	8.8	11.9	15.3	25.2	42.3	65.9	98.1
45°	0.0	2.0	4.0	6.1	9.4	12.7	18.1	28.5	51.5	80.2	114.1
42.5°	0.0	2.1	4.1	6.6	9.9	13.4	20.9	34.3	60.4	94.0	138.8
40°	0.0	2.1	4.3	7.0	10.5	14.0	23.5	41.7	69.9	107.3	164.0
37.5°	0.0	2.2	4.4	7.3	11.0	14.7	25.9	48.7	81.1	122.4	188.0
35°	0.0	2.3	4.6	7.7	11.5	16.2	28.3	55.4	91.7	142.7	214.5
32.5°	0.0	2.4	4.7	8.0	11.9	18.0	31.4	61.6	101.6	161.9	245.3
30°	0.0	2.4	4.8	8.3	12.4	19.7	36.4	68.0	111.0	179.9	274.2
27.5°	0.0	2.5	5.0	8.6	12.8	21.3	41.0	75.6	121.9	196.6	301.1
25°	0.0	2.5	5.1	8.9	13.1	22.7	45.3	82.5	135.5	216.4	326.1
22.5°	0.0	2.6	5.2	9.1	13.5	24.0	49.2	88.8	147.9	236.6	353.4
20°	0.0	2.6	5.3	9.4	13.8	25.2	52.7	94.5	159.1	254.9	378.1
17.5°	0.0	2.7	5.3	9.6	14.0	26.3	55.8	99.6	169.1	271.1	400.0
15°	0.0	2.7	5.4	9.7	14.3	27.2	58.5	104.0	177.7	285.3	419.1
12.5°	0.0	2.7	5.5	9.9	14.4	28.0	60.8	107.8	185.1	297.3	435.4
10°	0.0	2.8	5.5	10.0	14.6	28.7	62.7	110.9	191.2	307.2	448.8
7.5°	0.0	2.8	5.6	10.1	14.7	29.2	64.2	113.3	195.9	314.9	459.3
5°	0.0	2.8	5.6	10.1	14.8	29.5	65.3	115.0	199.3	320.5	466.8
2.5°	0.0	2.8	5.6	10.2	14.9	29.7	65.9	116.1	201.3	323.8	471.3
0°	0.0	2.8	5.6	10.2	14.9	29.8	66.1	116.4	202.0	324.9	472.8
-2.5°	0.0	2.8	5.6	10.2	14.9	29.7	65.9	116.1	201.3	323.8	471.3
-5°	0.0	2.8	5.6	10.1	14.8	29.5	65.3	115.0	199.3	320.5	466.8
-7.5°	0.0	2.8	5.6	10.1	14.7	29.2	64.2	113.3	195.9	314.9	459.3
-10°	0.0	2.8	5.5	10.0	14.6	28.7	62.7	110.9	191.2	307.2	448.8
-12.5°	0.0	2.7	5.5	9.9	14.4	28.0	60.8	107.8	185.1	297.3	435.4
-15°	0.0	2.7	5.4	9.7	14.3	27.2	58.5	104.0	177.7	285.3	419.1
-17.5°	0.0	2.7	5.3	9.6	14.0	26.3	55.8	99.6	169.1	271.1	400.0
-20°	0.0	2.6	5.3	9.4	13.8	25.2	52.7	94.5	159.1	254.9	378.1



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 CATALOG NUMBER: EPH-LS-08-0320N-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	2.6	5.2	9.1	13.5	24.0	49.2	88.8	147.9	236.6	353.4
-25°	0.0	2.5	5.1	8.9	13.1	22.7	45.3	82.5	135.5	216.4	326.1
-27.5°	0.0	2.5	5.0	8.6	12.8	21.3	41.0	75.6	121.9	196.6	301.1
-30°	0.0	2.4	4.8	8.3	12.4	19.7	36.4	68.0	111.0	179.9	274.2
-32.5°	0.0	2.4	4.7	8.0	11.9	18.0	31.4	61.6	101.6	161.9	245.3
-35°	0.0	2.3	4.6	7.7	11.5	16.2	28.3	55.4	91.7	142.7	214.5
-37.5°	0.0	2.2	4.4	7.3	11.0	14.7	25.9	48.7	81.1	122.4	188.0
-40°	0.0	2.1	4.3	7.0	10.5	14.0	23.5	41.7	69.9	107.3	164.0
-42.5°	0.0	2.1	4.1	6.6	9.9	13.4	20.9	34.3	60.4	94.0	138.8
-45°	0.0	2.0	4.0	6.1	9.4	12.7	18.1	28.5	51.5	80.2	114.1
-47.5°	0.0	1.9	3.8	5.7	8.8	11.9	15.3	25.2	42.3	65.9	98.1
-50°	0.0	1.8	3.6	5.4	8.2	11.1	14.1	21.7	32.7	55.1	81.4
-52.5°	0.0	1.7	3.4	5.1	7.6	10.3	13.1	18.2	26.9	43.9	64.8
-55°	0.0	1.6	3.2	4.8	6.9	9.5	12.2	14.8	22.7	32.4	52.0
-57.5°	0.0	1.5	3.0	4.5	6.3	8.7	11.1	13.6	18.4	26.0	38.9
-60°	0.0	1.4	2.8	4.2	5.6	7.8	10.1	12.4	14.6	21.0	28.0
-62.5°	0.0	1.3	2.6	3.9	5.2	7.0	9.0	11.1	13.2	16.0	22.4
-65°	0.0	1.2	2.4	3.5	4.7	6.1	8.0	9.8	11.7	13.6	16.6
-67.5°	0.0	1.1	2.1	3.2	4.3	5.3	6.9	8.6	10.2	11.9	13.6
-70°	0.0	1.0	1.9	2.9	3.8	4.8	5.7	7.3	8.8	10.2	11.7
-72.5°	0.0	0.8	1.7	2.5	3.4	4.2	5.0	5.9	7.3	8.6	9.8
-75°	0.0	0.7	1.4	2.2	2.9	3.6	4.3	5.0	5.7	6.9	8.0
-77.5°	0.0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.3	6.1
-80°	0.0	0.5	1.0	1.5	1.9	2.4	2.9	3.4	3.8	4.3	4.7
-82.5°	0.0	0.4	0.7	1.1	1.5	1.8	2.2	2.5	2.9	3.2	3.5
-85°	0.0	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.4
-87.5°	0.0	0.1	0.2	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.2
-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°	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.1	2.2
85°	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.1	4.3	4.4
82.5°	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.1	6.6	7.0	7.3
80°	5.2	5.6	6.3	6.9	7.6	8.2	8.8	9.4	9.9	10.5	11.0
77.5°	7.0	7.8	8.7	9.5	10.3	11.1	11.9	12.7	13.4	14.0	14.7
75°	9.0	10.1	11.1	12.2	13.1	14.1	15.3	18.1	20.9	23.5	25.9
72.5°	11.1	12.4	13.6	14.8	18.2	21.7	25.2	28.5	34.3	41.7	48.7
70°	13.2	14.6	18.4	22.7	26.9	32.7	42.3	51.5	60.4	69.9	81.1
67.5°	16.0	21.0	26.0	32.4	43.9	55.1	65.9	80.2	94.0	107.3	122.4
65°	22.4	28.0	38.9	52.0	64.8	81.4	98.1	114.1	138.8	164.0	188.0
62.5°	28.7	42.1	56.9	73.3	92.8	111.7	139.6	169.7	198.7	237.2	275.2
60°	42.1	58.5	77.8	99.6	124.0	159.1	193.2	236.6	282.2	326.1	376.4
57.5°	56.9	77.8	101.9	131.8	170.9	212.0	265.1	316.5	374.4	431.7	488.0
55°	73.3	99.6	131.8	174.9	223.5	282.4	342.6	409.3	473.9	543.0	609.1
52.5°	92.8	124.0	170.9	223.5	288.1	356.6	430.5	505.5	582.8	656.4	724.9
50°	111.7	159.1	212.0	282.4	356.6	437.6	521.5	606.9	687.5	764.1	827.8
47.5°	139.6	193.2	265.1	342.6	430.5	521.5	615.0	703.2	787.8	852.3	912.5
45°	169.7	236.6	316.5	409.3	505.5	606.9	703.2	795.8	864.6	928.0	977.9
42.5°	198.7	282.2	374.4	473.9	582.8	687.5	787.8	864.6	932.9	987.8	1050.7
40°	237.2	326.1	431.7	543.0	656.4	764.1	852.3	928.0	987.8	1057.4	1131.9
37.5°	275.2	376.4	488.0	609.1	724.9	827.8	912.5	977.9	1050.7	1131.9	1241.6
35°	311.4	424.2	546.1	670.8	790.2	881.6	958.3	1030.7	1118.3	1231.7	1345.0
32.5°	349.7	469.4	601.1	728.1	839.0	929.2	1000.9	1091.2	1202.3	1327.0	1437.2
30°	388.3	516.2	652.2	782.1	883.7	966.7	1051.2	1154.0	1289.0	1409.7	1546.4
27.5°	424.2	560.3	698.5	824.0	923.7	1001.9	1101.5	1230.2	1364.5	1495.0	1661.1
25°	457.4	601.1	741.4	859.8	953.9	1042.4	1153.6	1301.3	1432.8	1595.7	2211.6
22.5°	489.4	638.4	780.7	892.6	981.7	1082.3	1214.5	1361.2	1506.3	1712.3	2839.9
20°	520.0	670.8	811.5	921.1	1006.9	1118.6	1269.9	1414.8	1585.7	2248.4	3630.4
17.5°	547.2	699.6	835.8	941.8	1035.4	1157.4	1318.7	1462.9	1657.2	2732.0	4445.4
15°	570.9	724.9	857.0	959.9	1061.6	1197.6	1357.8	1518.9	1906.9	3228.4	5171.8
12.5°	591.1	746.4	875.1	975.3	1084.0	1232.0	1391.3	1568.8	2246.3	3803.2	5908.3
10°	607.8	764.1	890.0	988.0	1102.4	1260.4	1418.9	1610.2	2527.9	4280.9	6521.5
7.5°	620.8	777.9	901.7	998.0	1116.9	1282.6	1440.6	1642.6	2749.3	4657.2	7005.5
5°	630.1	787.8	910.1	1005.2	1127.3	1298.6	1456.2	1666.0	2908.8	4928.6	7355.1
2.5°	635.7	793.8	915.1	1009.5	1133.5	1308.3	1465.7	1680.1	3005.0	5092.5	7566.5
0°	637.6	795.8	916.8	1010.9	1135.6	1311.5	1468.8	1684.8	3037.2	5147.3	7637.2
-2.5°	635.7	793.8	915.1	1009.5	1133.5	1308.3	1465.7	1680.1	3005.0	5092.5	7566.5
-5°	630.1	787.8	910.1	1005.2	1127.3	1298.6	1456.2	1666.0	2908.8	4928.6	7355.1
-7.5°	620.8	777.9	901.7	998.0	1116.9	1282.6	1440.6	1642.6	2749.3	4657.2	7005.5
-10°	607.8	764.1	890.0	988.0	1102.4	1260.4	1418.9	1610.2	2527.9	4280.9	6521.5
-12.5°	591.1	746.4	875.1	975.3	1084.0	1232.0	1391.3	1568.8	2246.3	3803.2	5908.3
-15°	570.9	724.9	857.0	959.9	1061.6	1197.6	1357.8	1518.9	1906.9	3228.4	5171.8
-17.5°	547.2	699.6	835.8	941.8	1035.4	1157.4	1318.7	1462.9	1657.2	2732.0	4445.4
-20°	520.0	670.8	811.5	921.1	1006.9	1118.6	1269.9	1414.8	1585.7	2248.4	3630.4



REPORT NUMBER: P731207 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-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°	489.4	638.4	780.7	892.6	981.7	1082.3	1214.5	1361.2	1506.3	1712.3	2839.9
-25°	457.4	601.1	741.4	859.8	953.9	1042.4	1153.6	1301.3	1432.8	1595.7	2211.6
-27.5°	424.2	560.3	698.5	824.0	923.7	1001.9	1101.5	1230.2	1364.5	1495.0	1661.1
-30°	388.3	516.2	652.2	782.1	883.7	966.7	1051.2	1154.0	1289.0	1409.7	1546.4
-32.5°	349.7	469.4	601.1	728.1	839.0	929.2	1000.9	1091.2	1202.3	1327.0	1437.2
-35°	311.4	424.2	546.1	670.8	790.2	881.6	958.3	1030.7	1118.3	1231.7	1345.0
-37.5°	275.2	376.4	488.0	609.1	724.9	827.8	912.5	977.9	1050.7	1131.9	1241.6
-40°	237.2	326.1	431.7	543.0	656.4	764.1	852.3	928.0	987.8	1057.4	1131.9
-42.5°	198.7	282.2	374.4	473.9	582.8	687.5	787.8	864.6	932.9	987.8	1050.7
-45°	169.7	236.6	316.5	409.3	505.5	606.9	703.2	795.8	864.6	928.0	977.9
-47.5°	139.6	193.2	265.1	342.6	430.5	521.5	615.0	703.2	787.8	852.3	912.5
-50°	111.7	159.1	212.0	282.4	356.6	437.6	521.5	606.9	687.5	764.1	827.8
-52.5°	92.8	124.0	170.9	223.5	288.1	356.6	430.5	505.5	582.8	656.4	724.9
-55°	73.3	99.6	131.8	174.9	223.5	282.4	342.6	409.3	473.9	543.0	609.1
-57.5°	56.9	77.8	101.9	131.8	170.9	212.0	265.1	316.5	374.4	431.7	488.0
-60°	42.1	58.5	77.8	99.6	124.0	159.1	193.2	236.6	282.2	326.1	376.4
-62.5°	28.7	42.1	56.9	73.3	92.8	111.7	139.6	169.7	198.7	237.2	275.2
-65°	22.4	28.0	38.9	52.0	64.8	81.4	98.1	114.1	138.8	164.0	188.0
-67.5°	16.0	21.0	26.0	32.4	43.9	55.1	65.9	80.2	94.0	107.3	122.4
-70°	13.2	14.6	18.4	22.7	26.9	32.7	42.3	51.5	60.4	69.9	81.1
-72.5°	11.1	12.4	13.6	14.8	18.2	21.7	25.2	28.5	34.3	41.7	48.7
-75°	9.0	10.1	11.1	12.2	13.1	14.1	15.3	18.1	20.9	23.5	25.9
-77.5°	7.0	7.8	8.7	9.5	10.3	11.1	11.9	12.7	13.4	14.0	14.7
-80°	5.2	5.6	6.3	6.9	7.6	8.2	8.8	9.4	9.9	10.5	11.0
-82.5°	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.1	6.6	7.0	7.3
-85°	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.1	4.3	4.4
-87.5°	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.1	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



REPORT NUMBER: P731207 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-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°	2.3	2.4	2.4	2.5	2.5	2.6	2.6	2.7	2.7	2.7	2.8
85°	4.6	4.7	4.8	5.0	5.1	5.2	5.3	5.3	5.4	5.5	5.5
82.5°	7.7	8.0	8.3	8.6	8.9	9.1	9.4	9.6	9.7	9.9	10.0
80°	11.5	11.9	12.4	12.8	13.1	13.5	13.8	14.0	14.3	14.4	14.6
77.5°	16.2	18.0	19.7	21.3	22.7	24.0	25.2	26.3	27.2	28.0	28.7
75°	28.3	31.4	36.4	41.0	45.3	49.2	52.7	55.8	58.5	60.8	62.7
72.5°	55.4	61.6	68.0	75.6	82.5	88.8	94.5	99.6	104.0	107.8	110.9
70°	91.7	101.6	111.0	121.9	135.5	147.9	159.1	169.1	177.7	185.1	191.2
67.5°	142.7	161.9	179.9	196.6	216.4	236.6	254.9	271.1	285.3	297.3	307.2
65°	214.5	245.3	274.2	301.1	326.1	353.4	378.1	400.0	419.1	435.4	448.8
62.5°	311.4	349.7	388.3	424.2	457.4	489.4	520.0	547.2	570.9	591.1	607.8
60°	424.2	469.4	516.2	560.3	601.1	638.4	670.8	699.6	724.9	746.4	764.1
57.5°	546.1	601.1	652.2	698.5	741.4	780.7	811.5	835.8	857.0	875.1	890.0
55°	670.8	728.1	782.1	824.0	859.8	892.6	921.1	941.8	959.9	975.3	988.0
52.5°	790.2	839.0	883.7	923.7	953.9	981.7	1006.9	1035.4	1061.6	1084.0	1102.4
50°	881.6	929.2	966.7	1001.9	1042.4	1082.3	1118.6	1157.4	1197.6	1232.0	1260.4
47.5°	958.3	1000.9	1051.2	1101.5	1153.6	1214.5	1269.9	1318.7	1357.8	1391.3	1418.9
45°	1030.7	1091.2	1154.0	1230.2	1301.3	1361.2	1414.8	1462.9	1518.9	1568.8	1610.2
42.5°	1118.3	1202.3	1289.0	1364.5	1432.8	1506.3	1585.7	1657.2	1906.9	2246.3	2527.9
40°	1231.7	1327.0	1409.7	1495.0	1595.7	1712.3	2248.4	2732.0	3228.4	3803.2	4280.9
37.5°	1345.0	1437.2	1546.4	1661.1	2211.6	2839.9	3630.4	4445.4	5171.8	5908.3	6521.5
35°	1446.5	1572.4	1785.8	2551.3	3405.7	4457.5	5477.5	6515.9	7439.6	8300.6	9036.2
32.5°	1572.4	1869.6	2723.3	3818.6	5021.7	6329.2	7560.0	8786.9	9889.2	10915.3	11834.3
30°	1785.8	2723.3	3957.5	5336.7	6850.5	8339.2	9796.6	11238.9	12608.0	13849.0	15017.5
27.5°	2551.3	3818.6	5336.7	7026.0	8739.1	10422.0	12215.7	13921.2	15649.6	17165.7	18726.1
25°	3405.7	5021.7	6850.5	8739.1	10661.5	12713.6	14822.6	16894.6	19124.0	21145.2	23566.7
22.5°	4457.5	6329.2	8339.2	10422.0	12713.6	15127.4	17610.4	20339.5	23517.0	26992.9	30498.1
20°	5477.5	7560.0	9796.6	12215.7	14822.6	17610.4	20751.7	24878.0	29338.6	34652.8	39523.7
17.5°	6515.9	8786.9	11238.9	13921.2	16894.6	20339.5	24878.0	30354.4	36806.8	44000.7	50705.4
15°	7439.6	9889.2	12608.0	15649.6	19124.0	23517.0	29338.6	36806.8	45536.3	54880.4	64677.3
12.5°	8300.6	10915.3	13849.0	17165.7	21145.2	26992.9	34652.8	44000.7	54880.4	67056.7	76066.4
10°	9036.2	11834.3	15017.5	18726.1	23566.7	30498.1	39523.7	50705.4	64677.3	76066.4	85348.8
7.5°	9618.1	12563.3	15947.5	19974.4	25732.3	33847.9	44437.2	57815.2	71902.1	83314.1	92440.6
5°	10039.2	13092.0	16623.8	20885.3	27319.7	36317.5	48087.6	63244.5	76952.4	88284.3	97498.5
2.5°	10294.1	13412.5	17034.6	21440.0	28289.5	37832.6	50340.1	66622.2	80132.2	91334.1	100738.4
0°	10379.4	13519.9	17172.4	21626.3	28615.7	38343.5	51102.0	67769.9	81220.0	92345.4	101883.8
-2.5°	10294.1	13412.5	17034.6	21440.0	28289.5	37832.6	50340.1	66622.2	80132.2	91334.1	100738.4
-5°	10039.2	13092.0	16623.8	20885.3	27319.7	36317.5	48087.6	63244.5	76952.4	88284.3	97498.5
-7.5°	9618.1	12563.3	15947.5	19974.4	25732.3	33847.9	44437.2	57815.2	71902.1	83314.1	92440.6
-10°	9036.2	11834.3	15017.5	18726.1	23566.7	30498.1	39523.7	50705.4	64677.3	76066.4	85348.8
-12.5°	8300.6	10915.3	13849.0	17165.7	21145.2	26992.9	34652.8	44000.7	54880.4	67056.7	76066.4
-15°	7439.6	9889.2	12608.0	15649.6	19124.0	23517.0	29338.6	36806.8	45536.3	54880.4	64677.3
-17.5°	6515.9	8786.9	11238.9	13921.2	16894.6	20339.5	24878.0	30354.4	36806.8	44000.7	50705.4
-20°	5477.5	7560.0	9796.6	12215.7	14822.6	17610.4	20751.7	24878.0	29338.6	34652.8	39523.7



REPORT NUMBER: P731207 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-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°	4457.5	6329.2	8339.2	10422.0	12713.6	15127.4	17610.4	20339.5	23517.0	26992.9	30498.1
-25°	3405.7	5021.7	6850.5	8739.1	10661.5	12713.6	14822.6	16894.6	19124.0	21145.2	23566.7
-27.5°	2551.3	3818.6	5336.7	7026.0	8739.1	10422.0	12215.7	13921.2	15649.6	17165.7	18726.1
-30°	1785.8	2723.3	3957.5	5336.7	6850.5	8339.2	9796.6	11238.9	12608.0	13849.0	15017.5
-32.5°	1572.4	1869.6	2723.3	3818.6	5021.7	6329.2	7560.0	8786.9	9889.2	10915.3	11834.3
-35°	1446.5	1572.4	1785.8	2551.3	3405.7	4457.5	5477.5	6515.9	7439.6	8300.6	9036.2
-37.5°	1345.0	1437.2	1546.4	1661.1	2211.6	2839.9	3630.4	4445.4	5171.8	5908.3	6521.5
-40°	1231.7	1327.0	1409.7	1495.0	1595.7	1712.3	2248.4	2732.0	3228.4	3803.2	4280.9
-42.5°	1118.3	1202.3	1289.0	1364.5	1432.8	1506.3	1585.7	1657.2	1906.9	2246.3	2527.9
-45°	1030.7	1091.2	1154.0	1230.2	1301.3	1361.2	1414.8	1462.9	1518.9	1568.8	1610.2
-47.5°	958.3	1000.9	1051.2	1101.5	1153.6	1214.5	1269.9	1318.7	1357.8	1391.3	1418.9
-50°	881.6	929.2	966.7	1001.9	1042.4	1082.3	1118.6	1157.4	1197.6	1232.0	1260.4
-52.5°	790.2	839.0	883.7	923.7	953.9	981.7	1006.9	1035.4	1061.6	1084.0	1102.4
-55°	670.8	728.1	782.1	824.0	859.8	892.6	921.1	941.8	959.9	975.3	988.0
-57.5°	546.1	601.1	652.2	698.5	741.4	780.7	811.5	835.8	857.0	875.1	890.0
-60°	424.2	469.4	516.2	560.3	601.1	638.4	670.8	699.6	724.9	746.4	764.1
-62.5°	311.4	349.7	388.3	424.2	457.4	489.4	520.0	547.2	570.9	591.1	607.8
-65°	214.5	245.3	274.2	301.1	326.1	353.4	378.1	400.0	419.1	435.4	448.8
-67.5°	142.7	161.9	179.9	196.6	216.4	236.6	254.9	271.1	285.3	297.3	307.2
-70°	91.7	101.6	111.0	121.9	135.5	147.9	159.1	169.1	177.7	185.1	191.2
-72.5°	55.4	61.6	68.0	75.6	82.5	88.8	94.5	99.6	104.0	107.8	110.9
-75°	28.3	31.4	36.4	41.0	45.3	49.2	52.7	55.8	58.5	60.8	62.7
-77.5°	16.2	18.0	19.7	21.3	22.7	24.0	25.2	26.3	27.2	28.0	28.7
-80°	11.5	11.9	12.4	12.8	13.1	13.5	13.8	14.0	14.3	14.4	14.6
-82.5°	7.7	8.0	8.3	8.6	8.9	9.1	9.4	9.6	9.7	9.9	10.0
-85°	4.6	4.7	4.8	5.0	5.1	5.2	5.3	5.3	5.4	5.5	5.5
-87.5°	2.3	2.4	2.4	2.5	2.5	2.6	2.6	2.7	2.7	2.7	2.8
-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: P731207 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-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°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.7
85°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.4	5.3
82.5°	10.1	10.1	10.2	10.2	10.2	10.1	10.1	10.0	9.9	9.7	9.6
80°	14.7	14.8	14.9	14.9	14.9	14.8	14.7	14.6	14.4	14.3	14.0
77.5°	29.2	29.5	29.7	29.8	29.7	29.5	29.2	28.7	28.0	27.2	26.3
75°	64.2	65.3	65.9	66.1	65.9	65.3	64.2	62.7	60.8	58.5	55.8
72.5°	113.3	115.0	116.1	116.4	116.1	115.0	113.3	110.9	107.8	104.0	99.6
70°	195.9	199.3	201.3	202.0	201.3	199.3	195.9	191.2	185.1	177.7	169.1
67.5°	314.9	320.5	323.8	324.9	323.8	320.5	314.9	307.2	297.3	285.3	271.1
65°	459.3	466.8	471.3	472.8	471.3	466.8	459.3	448.8	435.4	419.1	400.0
62.5°	620.8	630.1	635.7	637.6	635.7	630.1	620.8	607.8	591.1	570.9	547.2
60°	777.9	787.8	793.8	795.8	793.8	787.8	777.9	764.1	746.4	724.9	699.6
57.5°	901.7	910.1	915.1	916.8	915.1	910.1	901.7	890.0	875.1	857.0	835.8
55°	998.0	1005.2	1009.5	1010.9	1009.5	1005.2	998.0	988.0	975.3	959.9	941.8
52.5°	1116.9	1127.3	1133.5	1135.6	1133.5	1127.3	1116.9	1102.4	1084.0	1061.6	1035.4
50°	1282.6	1298.6	1308.3	1311.5	1308.3	1298.6	1282.6	1260.4	1232.0	1197.6	1157.4
47.5°	1440.6	1456.2	1465.7	1468.8	1465.7	1456.2	1440.6	1418.9	1391.3	1357.8	1318.7
45°	1642.6	1666.0	1680.1	1684.8	1680.1	1666.0	1642.6	1610.2	1568.8	1518.9	1462.9
42.5°	2749.3	2908.8	3005.0	3037.2	3005.0	2908.8	2749.3	2527.9	2246.3	1906.9	1657.2
40°	4657.2	4928.6	5092.5	5147.3	5092.5	4928.6	4657.2	4280.9	3803.2	3228.4	2732.0
37.5°	7005.5	7355.1	7566.5	7637.2	7566.5	7355.1	7005.5	6521.5	5908.3	5171.8	4445.4
35°	9618.1	10039.2	10294.1	10379.4	10294.1	10039.2	9618.1	9036.2	8300.6	7439.6	6515.9
32.5°	12563.3	13092.0	13412.5	13519.9	13412.5	13092.0	12563.3	11834.3	10915.3	9889.2	8786.9
30°	15947.5	16623.8	17034.6	17172.4	17034.6	16623.8	15947.5	15017.5	13849.0	12608.0	11238.9
27.5°	19974.4	20885.3	21440.0	21626.3	21440.0	20885.3	19974.4	18726.1	17165.7	15649.6	13921.2
25°	25732.3	27319.7	28289.5	28615.7	28289.5	27319.7	25732.3	23566.7	21145.2	19124.0	16894.6
22.5°	33847.9	36317.5	37832.6	38343.5	37832.6	36317.5	33847.9	30498.1	26992.9	23517.0	20339.5
20°	44437.2	48087.6	50340.1	51102.0	50340.1	48087.6	44437.2	39523.7	34652.8	29338.6	24878.0
17.5°	57815.2	63244.5	66622.2	67769.9	66622.2	63244.5	57815.2	50705.4	44000.7	36806.8	30354.4
15°	71902.1	76952.4	80132.2	81220.0	80132.2	76952.4	71902.1	64677.3	54880.4	45536.3	36806.8
12.5°	83314.1	88284.3	91334.1	92345.4	91334.1	88284.3	83314.1	76066.4	67056.7	54880.4	44000.7
10°	92440.6	97498.5	100738.4	101883.8	100738.4	97498.5	92440.6	85348.8	76066.4	64677.3	50705.4
7.5°	99660.4	105369.3	108827.0	110057.6	108827.0	105369.3	99660.4	92440.6	83314.1	71902.1	57815.2
5°	105369.3	111379.6	115472.4	116912.5	115472.4	111379.6	105369.3	97498.5	88284.3	76952.4	63244.5
2.5°	108827.0	115472.4	119425.9	120561.7	119425.9	115472.4	108827.0	100738.4	91334.1	80132.2	66622.2
0°	110057.6	116912.5	120561.7	121078.8	120561.7	116912.5	110057.6	101883.8	92345.4	81220.0	67769.9
-2.5°	108827.0	115472.4	119425.9	120561.7	119425.9	115472.4	108827.0	100738.4	91334.1	80132.2	66622.2
-5°	105369.3	111379.6	115472.4	116912.5	115472.4	111379.6	105369.3	97498.5	88284.3	76952.4	63244.5
-7.5°	99660.4	105369.3	108827.0	110057.6	108827.0	105369.3	99660.4	92440.6	83314.1	71902.1	57815.2
-10°	92440.6	97498.5	100738.4	101883.8	100738.4	97498.5	92440.6	85348.8	76066.4	64677.3	50705.4
-12.5°	83314.1	88284.3	91334.1	92345.4	91334.1	88284.3	83314.1	76066.4	67056.7	54880.4	44000.7
-15°	71902.1	76952.4	80132.2	81220.0	80132.2	76952.4	71902.1	64677.3	54880.4	45536.3	36806.8
-17.5°	57815.2	63244.5	66622.2	67769.9	66622.2	63244.5	57815.2	50705.4	44000.7	36806.8	30354.4
-20°	44437.2	48087.6	50340.1	51102.0	50340.1	48087.6	44437.2	39523.7	34652.8	29338.6	24878.0



REPORT NUMBER: P731207 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-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°	33847.9	36317.5	37832.6	38343.5	37832.6	36317.5	33847.9	30498.1	26992.9	23517.0	20339.5
-25°	25732.3	27319.7	28289.5	28615.7	28289.5	27319.7	25732.3	23566.7	21145.2	19124.0	16894.6
-27.5°	19974.4	20885.3	21440.0	21626.3	21440.0	20885.3	19974.4	18726.1	17165.7	15649.6	13921.2
-30°	15947.5	16623.8	17034.6	17172.4	17034.6	16623.8	15947.5	15017.5	13849.0	12608.0	11238.9
-32.5°	12563.3	13092.0	13412.5	13519.9	13412.5	13092.0	12563.3	11834.3	10915.3	9889.2	8786.9
-35°	9618.1	10039.2	10294.1	10379.4	10294.1	10039.2	9618.1	9036.2	8300.6	7439.6	6515.9
-37.5°	7005.5	7355.1	7566.5	7637.2	7566.5	7355.1	7005.5	6521.5	5908.3	5171.8	4445.4
-40°	4657.2	4928.6	5092.5	5147.3	5092.5	4928.6	4657.2	4280.9	3803.2	3228.4	2732.0
-42.5°	2749.3	2908.8	3005.0	3037.2	3005.0	2908.8	2749.3	2527.9	2246.3	1906.9	1657.2
-45°	1642.6	1666.0	1680.1	1684.8	1680.1	1666.0	1642.6	1610.2	1568.8	1518.9	1462.9
-47.5°	1440.6	1456.2	1465.7	1468.8	1465.7	1456.2	1440.6	1418.9	1391.3	1357.8	1318.7
-50°	1282.6	1298.6	1308.3	1311.5	1308.3	1298.6	1282.6	1260.4	1232.0	1197.6	1157.4
-52.5°	1116.9	1127.3	1133.5	1135.6	1133.5	1127.3	1116.9	1102.4	1084.0	1061.6	1035.4
-55°	998.0	1005.2	1009.5	1010.9	1009.5	1005.2	998.0	988.0	975.3	959.9	941.8
-57.5°	901.7	910.1	915.1	916.8	915.1	910.1	901.7	890.0	875.1	857.0	835.8
-60°	777.9	787.8	793.8	795.8	793.8	787.8	777.9	764.1	746.4	724.9	699.6
-62.5°	620.8	630.1	635.7	637.6	635.7	630.1	620.8	607.8	591.1	570.9	547.2
-65°	459.3	466.8	471.3	472.8	471.3	466.8	459.3	448.8	435.4	419.1	400.0
-67.5°	314.9	320.5	323.8	324.9	323.8	320.5	314.9	307.2	297.3	285.3	271.1
-70°	195.9	199.3	201.3	202.0	201.3	199.3	195.9	191.2	185.1	177.7	169.1
-72.5°	113.3	115.0	116.1	116.4	116.1	115.0	113.3	110.9	107.8	104.0	99.6
-75°	64.2	65.3	65.9	66.1	65.9	65.3	64.2	62.7	60.8	58.5	55.8
-77.5°	29.2	29.5	29.7	29.8	29.7	29.5	29.2	28.7	28.0	27.2	26.3
-80°	14.7	14.8	14.9	14.9	14.9	14.8	14.7	14.6	14.4	14.3	14.0
-82.5°	10.1	10.1	10.2	10.2	10.2	10.1	10.1	10.0	9.9	9.7	9.6
-85°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.4	5.3
-87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731207 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-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°	2.6	2.6	2.5	2.5	2.4	2.4	2.3	2.2	2.1	2.1	2.0
85°	5.3	5.2	5.1	5.0	4.8	4.7	4.6	4.4	4.3	4.1	4.0
82.5°	9.4	9.1	8.9	8.6	8.3	8.0	7.7	7.3	7.0	6.6	6.1
80°	13.8	13.5	13.1	12.8	12.4	11.9	11.5	11.0	10.5	9.9	9.4
77.5°	25.2	24.0	22.7	21.3	19.7	18.0	16.2	14.7	14.0	13.4	12.7
75°	52.7	49.2	45.3	41.0	36.4	31.4	28.3	25.9	23.5	20.9	18.1
72.5°	94.5	88.8	82.5	75.6	68.0	61.6	55.4	48.7	41.7	34.3	28.5
70°	159.1	147.9	135.5	121.9	111.0	101.6	91.7	81.1	69.9	60.4	51.5
67.5°	254.9	236.6	216.4	196.6	179.9	161.9	142.7	122.4	107.3	94.0	80.2
65°	378.1	353.4	326.1	301.1	274.2	245.3	214.5	188.0	164.0	138.8	114.1
62.5°	520.0	489.4	457.4	424.2	388.3	349.7	311.4	275.2	237.2	198.7	169.7
60°	670.8	638.4	601.1	560.3	516.2	469.4	424.2	376.4	326.1	282.2	236.6
57.5°	811.5	780.7	741.4	698.5	652.2	601.1	546.1	488.0	431.7	374.4	316.5
55°	921.1	892.6	859.8	824.0	782.1	728.1	670.8	609.1	543.0	473.9	409.3
52.5°	1006.9	981.7	953.9	923.7	883.7	839.0	790.2	724.9	656.4	582.8	505.5
50°	1118.6	1082.3	1042.4	1001.9	966.7	929.2	881.6	827.8	764.1	687.5	606.9
47.5°	1269.9	1214.5	1153.6	1101.5	1051.2	1000.9	958.3	912.5	852.3	787.8	703.2
45°	1414.8	1361.2	1301.3	1230.2	1154.0	1091.2	1030.7	977.9	928.0	864.6	795.8
42.5°	1585.7	1506.3	1432.8	1364.5	1289.0	1202.3	1118.3	1050.7	987.8	932.9	864.6
40°	2248.4	1712.3	1595.7	1495.0	1409.7	1327.0	1231.7	1131.9	1057.4	987.8	928.0
37.5°	3630.4	2839.9	2211.6	1661.1	1546.4	1437.2	1345.0	1241.6	1131.9	1050.7	977.9
35°	5477.5	4457.5	3405.7	2551.3	1785.8	1572.4	1446.5	1345.0	1231.7	1118.3	1030.7
32.5°	7560.0	6329.2	5021.7	3818.6	2723.3	1869.6	1572.4	1437.2	1327.0	1202.3	1091.2
30°	9796.6	8339.2	6850.5	5336.7	3957.5	2723.3	1785.8	1546.4	1409.7	1289.0	1154.0
27.5°	12215.7	10422.0	8739.1	7026.0	5336.7	3818.6	2551.3	1661.1	1495.0	1364.5	1230.2
25°	14822.6	12713.6	10661.5	8739.1	6850.5	5021.7	3405.7	2211.6	1595.7	1432.8	1301.3
22.5°	17610.4	15127.4	12713.6	10422.0	8339.2	6329.2	4457.5	2839.9	1712.3	1506.3	1361.2
20°	20751.7	17610.4	14822.6	12215.7	9796.6	7560.0	5477.5	3630.4	2248.4	1585.7	1414.8
17.5°	24878.0	20339.5	16894.6	13921.2	11238.9	8786.9	6515.9	4445.4	2732.0	1657.2	1462.9
15°	29338.6	23517.0	19124.0	15649.6	12608.0	9889.2	7439.6	5171.8	3228.4	1906.9	1518.9
12.5°	34652.8	26992.9	21145.2	17165.7	13849.0	10915.3	8300.6	5908.3	3803.2	2246.3	1568.8
10°	39523.7	30498.1	23566.7	18726.1	15017.5	11834.3	9036.2	6521.5	4280.9	2527.9	1610.2
7.5°	44437.2	33847.9	25732.3	19974.4	15947.5	12563.3	9618.1	7005.5	4657.2	2749.3	1642.6
5°	48087.6	36317.5	27319.7	20885.3	16623.8	13092.0	10039.2	7355.1	4928.6	2908.8	1666.0
2.5°	50340.1	37832.6	28289.5	21440.0	17034.6	13412.5	10294.1	7566.5	5092.5	3005.0	1680.1
0°	51102.0	38343.5	28615.7	21626.3	17172.4	13519.9	10379.4	7637.2	5147.3	3037.2	1684.8
-2.5°	50340.1	37832.6	28289.5	21440.0	17034.6	13412.5	10294.1	7566.5	5092.5	3005.0	1680.1
-5°	48087.6	36317.5	27319.7	20885.3	16623.8	13092.0	10039.2	7355.1	4928.6	2908.8	1666.0
-7.5°	44437.2	33847.9	25732.3	19974.4	15947.5	12563.3	9618.1	7005.5	4657.2	2749.3	1642.6
-10°	39523.7	30498.1	23566.7	18726.1	15017.5	11834.3	9036.2	6521.5	4280.9	2527.9	1610.2
-12.5°	34652.8	26992.9	21145.2	17165.7	13849.0	10915.3	8300.6	5908.3	3803.2	2246.3	1568.8
-15°	29338.6	23517.0	19124.0	15649.6	12608.0	9889.2	7439.6	5171.8	3228.4	1906.9	1518.9
-17.5°	24878.0	20339.5	16894.6	13921.2	11238.9	8786.9	6515.9	4445.4	2732.0	1657.2	1462.9
-20°	20751.7	17610.4	14822.6	12215.7	9796.6	7560.0	5477.5	3630.4	2248.4	1585.7	1414.8



REPORT NUMBER: P731207 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-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°	17610.4	15127.4	12713.6	10422.0	8339.2	6329.2	4457.5	2839.9	1712.3	1506.3	1361.2
-25°	14822.6	12713.6	10661.5	8739.1	6850.5	5021.7	3405.7	2211.6	1595.7	1432.8	1301.3
-27.5°	12215.7	10422.0	8739.1	7026.0	5336.7	3818.6	2551.3	1661.1	1495.0	1364.5	1230.2
-30°	9796.6	8339.2	6850.5	5336.7	3957.5	2723.3	1785.8	1546.4	1409.7	1289.0	1154.0
-32.5°	7560.0	6329.2	5021.7	3818.6	2723.3	1869.6	1572.4	1437.2	1327.0	1202.3	1091.2
-35°	5477.5	4457.5	3405.7	2551.3	1785.8	1572.4	1446.5	1345.0	1231.7	1118.3	1030.7
-37.5°	3630.4	2839.9	2211.6	1661.1	1546.4	1437.2	1345.0	1241.6	1131.9	1050.7	977.9
-40°	2248.4	1712.3	1595.7	1495.0	1409.7	1327.0	1231.7	1131.9	1057.4	987.8	928.0
-42.5°	1585.7	1506.3	1432.8	1364.5	1289.0	1202.3	1118.3	1050.7	987.8	932.9	864.6
-45°	1414.8	1361.2	1301.3	1230.2	1154.0	1091.2	1030.7	977.9	928.0	864.6	795.8
-47.5°	1269.9	1214.5	1153.6	1101.5	1051.2	1000.9	958.3	912.5	852.3	787.8	703.2
-50°	1118.6	1082.3	1042.4	1001.9	966.7	929.2	881.6	827.8	764.1	687.5	606.9
-52.5°	1006.9	981.7	953.9	923.7	883.7	839.0	790.2	724.9	656.4	582.8	505.5
-55°	921.1	892.6	859.8	824.0	782.1	728.1	670.8	609.1	543.0	473.9	409.3
-57.5°	811.5	780.7	741.4	698.5	652.2	601.1	546.1	488.0	431.7	374.4	316.5
-60°	670.8	638.4	601.1	560.3	516.2	469.4	424.2	376.4	326.1	282.2	236.6
-62.5°	520.0	489.4	457.4	424.2	388.3	349.7	311.4	275.2	237.2	198.7	169.7
-65°	378.1	353.4	326.1	301.1	274.2	245.3	214.5	188.0	164.0	138.8	114.1
-67.5°	254.9	236.6	216.4	196.6	179.9	161.9	142.7	122.4	107.3	94.0	80.2
-70°	159.1	147.9	135.5	121.9	111.0	101.6	91.7	81.1	69.9	60.4	51.5
-72.5°	94.5	88.8	82.5	75.6	68.0	61.6	55.4	48.7	41.7	34.3	28.5
-75°	52.7	49.2	45.3	41.0	36.4	31.4	28.3	25.9	23.5	20.9	18.1
-77.5°	25.2	24.0	22.7	21.3	19.7	18.0	16.2	14.7	14.0	13.4	12.7
-80°	13.8	13.5	13.1	12.8	12.4	11.9	11.5	11.0	10.5	9.9	9.4
-82.5°	9.4	9.1	8.9	8.6	8.3	8.0	7.7	7.3	7.0	6.6	6.1
-85°	5.3	5.2	5.1	5.0	4.8	4.7	4.6	4.4	4.3	4.1	4.0
-87.5°	2.6	2.6	2.5	2.5	2.4	2.4	2.3	2.2	2.1	2.1	2.0
-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: P731207 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-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°	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.8
85°	3.8	3.6	3.4	3.2	3.0	2.8	2.6	2.4	2.1	1.9	1.7
82.5°	5.7	5.4	5.1	4.8	4.5	4.2	3.9	3.5	3.2	2.9	2.5
80°	8.8	8.2	7.6	6.9	6.3	5.6	5.2	4.7	4.3	3.8	3.4
77.5°	11.9	11.1	10.3	9.5	8.7	7.8	7.0	6.1	5.3	4.8	4.2
75°	15.3	14.1	13.1	12.2	11.1	10.1	9.0	8.0	6.9	5.7	5.0
72.5°	25.2	21.7	18.2	14.8	13.6	12.4	11.1	9.8	8.6	7.3	5.9
70°	42.3	32.7	26.9	22.7	18.4	14.6	13.2	11.7	10.2	8.8	7.3
67.5°	65.9	55.1	43.9	32.4	26.0	21.0	16.0	13.6	11.9	10.2	8.6
65°	98.1	81.4	64.8	52.0	38.9	28.0	22.4	16.6	13.6	11.7	9.8
62.5°	139.6	111.7	92.8	73.3	56.9	42.1	28.7	22.4	16.0	13.2	11.1
60°	193.2	159.1	124.0	99.6	77.8	58.5	42.1	28.0	21.0	14.6	12.4
57.5°	265.1	212.0	170.9	131.8	101.9	77.8	56.9	38.9	26.0	18.4	13.6
55°	342.6	282.4	223.5	174.9	131.8	99.6	73.3	52.0	32.4	22.7	14.8
52.5°	430.5	356.6	288.1	223.5	170.9	124.0	92.8	64.8	43.9	26.9	18.2
50°	521.5	437.6	356.6	282.4	212.0	159.1	111.7	81.4	55.1	32.7	21.7
47.5°	615.0	521.5	430.5	342.6	265.1	193.2	139.6	98.1	65.9	42.3	25.2
45°	703.2	606.9	505.5	409.3	316.5	236.6	169.7	114.1	80.2	51.5	28.5
42.5°	787.8	687.5	582.8	473.9	374.4	282.2	198.7	138.8	94.0	60.4	34.3
40°	852.3	764.1	656.4	543.0	431.7	326.1	237.2	164.0	107.3	69.9	41.7
37.5°	912.5	827.8	724.9	609.1	488.0	376.4	275.2	188.0	122.4	81.1	48.7
35°	958.3	881.6	790.2	670.8	546.1	424.2	311.4	214.5	142.7	91.7	55.4
32.5°	1000.9	929.2	839.0	728.1	601.1	469.4	349.7	245.3	161.9	101.6	61.6
30°	1051.2	966.7	883.7	782.1	652.2	516.2	388.3	274.2	179.9	111.0	68.0
27.5°	1101.5	1001.9	923.7	824.0	698.5	560.3	424.2	301.1	196.6	121.9	75.6
25°	1153.6	1042.4	953.9	859.8	741.4	601.1	457.4	326.1	216.4	135.5	82.5
22.5°	1214.5	1082.3	981.7	892.6	780.7	638.4	489.4	353.4	236.6	147.9	88.8
20°	1269.9	1118.6	1006.9	921.1	811.5	670.8	520.0	378.1	254.9	159.1	94.5
17.5°	1318.7	1157.4	1035.4	941.8	835.8	699.6	547.2	400.0	271.1	169.1	99.6
15°	1357.8	1197.6	1061.6	959.9	857.0	724.9	570.9	419.1	285.3	177.7	104.0
12.5°	1391.3	1232.0	1084.0	975.3	875.1	746.4	591.1	435.4	297.3	185.1	107.8
10°	1418.9	1260.4	1102.4	988.0	890.0	764.1	607.8	448.8	307.2	191.2	110.9
7.5°	1440.6	1282.6	1116.9	998.0	901.7	777.9	620.8	459.3	314.9	195.9	113.3
5°	1456.2	1298.6	1127.3	1005.2	910.1	787.8	630.1	466.8	320.5	199.3	115.0
2.5°	1465.7	1308.3	1133.5	1009.5	915.1	793.8	635.7	471.3	323.8	201.3	116.1
0°	1468.8	1311.5	1135.6	1010.9	916.8	795.8	637.6	472.8	324.9	202.0	116.4
-2.5°	1465.7	1308.3	1133.5	1009.5	915.1	793.8	635.7	471.3	323.8	201.3	116.1
-5°	1456.2	1298.6	1127.3	1005.2	910.1	787.8	630.1	466.8	320.5	199.3	115.0
-7.5°	1440.6	1282.6	1116.9	998.0	901.7	777.9	620.8	459.3	314.9	195.9	113.3
-10°	1418.9	1260.4	1102.4	988.0	890.0	764.1	607.8	448.8	307.2	191.2	110.9
-12.5°	1391.3	1232.0	1084.0	975.3	875.1	746.4	591.1	435.4	297.3	185.1	107.8
-15°	1357.8	1197.6	1061.6	959.9	857.0	724.9	570.9	419.1	285.3	177.7	104.0
-17.5°	1318.7	1157.4	1035.4	941.8	835.8	699.6	547.2	400.0	271.1	169.1	99.6
-20°	1269.9	1118.6	1006.9	921.1	811.5	670.8	520.0	378.1	254.9	159.1	94.5



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 CATALOG NUMBER: EPH-LS-08-0320N-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°	1214.5	1082.3	981.7	892.6	780.7	638.4	489.4	353.4	236.6	147.9	88.8
-25°	1153.6	1042.4	953.9	859.8	741.4	601.1	457.4	326.1	216.4	135.5	82.5
-27.5°	1101.5	1001.9	923.7	824.0	698.5	560.3	424.2	301.1	196.6	121.9	75.6
-30°	1051.2	966.7	883.7	782.1	652.2	516.2	388.3	274.2	179.9	111.0	68.0
-32.5°	1000.9	929.2	839.0	728.1	601.1	469.4	349.7	245.3	161.9	101.6	61.6
-35°	958.3	881.6	790.2	670.8	546.1	424.2	311.4	214.5	142.7	91.7	55.4
-37.5°	912.5	827.8	724.9	609.1	488.0	376.4	275.2	188.0	122.4	81.1	48.7
-40°	852.3	764.1	656.4	543.0	431.7	326.1	237.2	164.0	107.3	69.9	41.7
-42.5°	787.8	687.5	582.8	473.9	374.4	282.2	198.7	138.8	94.0	60.4	34.3
-45°	703.2	606.9	505.5	409.3	316.5	236.6	169.7	114.1	80.2	51.5	28.5
-47.5°	615.0	521.5	430.5	342.6	265.1	193.2	139.6	98.1	65.9	42.3	25.2
-50°	521.5	437.6	356.6	282.4	212.0	159.1	111.7	81.4	55.1	32.7	21.7
-52.5°	430.5	356.6	288.1	223.5	170.9	124.0	92.8	64.8	43.9	26.9	18.2
-55°	342.6	282.4	223.5	174.9	131.8	99.6	73.3	52.0	32.4	22.7	14.8
-57.5°	265.1	212.0	170.9	131.8	101.9	77.8	56.9	38.9	26.0	18.4	13.6
-60°	193.2	159.1	124.0	99.6	77.8	58.5	42.1	28.0	21.0	14.6	12.4
-62.5°	139.6	111.7	92.8	73.3	56.9	42.1	28.7	22.4	16.0	13.2	11.1
-65°	98.1	81.4	64.8	52.0	38.9	28.0	22.4	16.6	13.6	11.7	9.8
-67.5°	65.9	55.1	43.9	32.4	26.0	21.0	16.0	13.6	11.9	10.2	8.6
-70°	42.3	32.7	26.9	22.7	18.4	14.6	13.2	11.7	10.2	8.8	7.3
-72.5°	25.2	21.7	18.2	14.8	13.6	12.4	11.1	9.8	8.6	7.3	5.9
-75°	15.3	14.1	13.1	12.2	11.1	10.1	9.0	8.0	6.9	5.7	5.0
-77.5°	11.9	11.1	10.3	9.5	8.7	7.8	7.0	6.1	5.3	4.8	4.2
-80°	8.8	8.2	7.6	6.9	6.3	5.6	5.2	4.7	4.3	3.8	3.4
-82.5°	5.7	5.4	5.1	4.8	4.5	4.2	3.9	3.5	3.2	2.9	2.5
-85°	3.8	3.6	3.4	3.2	3.0	2.8	2.6	2.4	2.1	1.9	1.7
-87.5°	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.6	0.5	0.4	0.2	0.1	0.0
85°	1.4	1.2	1.0	0.7	0.5	0.2	0.0
82.5°	2.2	1.8	1.5	1.1	0.7	0.4	0.0
80°	2.9	2.4	1.9	1.5	1.0	0.5	0.0
77.5°	3.6	3.0	2.4	1.8	1.2	0.6	0.0
75°	4.3	3.6	2.9	2.2	1.4	0.7	0.0
72.5°	5.0	4.2	3.4	2.5	1.7	0.8	0.0
70°	5.7	4.8	3.8	2.9	1.9	1.0	0.0
67.5°	6.9	5.3	4.3	3.2	2.1	1.1	0.0
65°	8.0	6.1	4.7	3.5	2.4	1.2	0.0
62.5°	9.0	7.0	5.2	3.9	2.6	1.3	0.0
60°	10.1	7.8	5.6	4.2	2.8	1.4	0.0
57.5°	11.1	8.7	6.3	4.5	3.0	1.5	0.0
55°	12.2	9.5	6.9	4.8	3.2	1.6	0.0
52.5°	13.1	10.3	7.6	5.1	3.4	1.7	0.0
50°	14.1	11.1	8.2	5.4	3.6	1.8	0.0
47.5°	15.3	11.9	8.8	5.7	3.8	1.9	0.0
45°	18.1	12.7	9.4	6.1	4.0	2.0	0.0
42.5°	20.9	13.4	9.9	6.6	4.1	2.1	0.0
40°	23.5	14.0	10.5	7.0	4.3	2.1	0.0
37.5°	25.9	14.7	11.0	7.3	4.4	2.2	0.0
35°	28.3	16.2	11.5	7.7	4.6	2.3	0.0
32.5°	31.4	18.0	11.9	8.0	4.7	2.4	0.0
30°	36.4	19.7	12.4	8.3	4.8	2.4	0.0
27.5°	41.0	21.3	12.8	8.6	5.0	2.5	0.0
25°	45.3	22.7	13.1	8.9	5.1	2.5	0.0
22.5°	49.2	24.0	13.5	9.1	5.2	2.6	0.0
20°	52.7	25.2	13.8	9.4	5.3	2.6	0.0
17.5°	55.8	26.3	14.0	9.6	5.3	2.7	0.0
15°	58.5	27.2	14.3	9.7	5.4	2.7	0.0
12.5°	60.8	28.0	14.4	9.9	5.5	2.7	0.0
10°	62.7	28.7	14.6	10.0	5.5	2.8	0.0
7.5°	64.2	29.2	14.7	10.1	5.6	2.8	0.0
5°	65.3	29.5	14.8	10.1	5.6	2.8	0.0
2.5°	65.9	29.7	14.9	10.2	5.6	2.8	0.0
0°	66.1	29.8	14.9	10.2	5.6	2.8	0.0
-2.5°	65.9	29.7	14.9	10.2	5.6	2.8	0.0
-5°	65.3	29.5	14.8	10.1	5.6	2.8	0.0
-7.5°	64.2	29.2	14.7	10.1	5.6	2.8	0.0
-10°	62.7	28.7	14.6	10.0	5.5	2.8	0.0
-12.5°	60.8	28.0	14.4	9.9	5.5	2.7	0.0
-15°	58.5	27.2	14.3	9.7	5.4	2.7	0.0
-17.5°	55.8	26.3	14.0	9.6	5.3	2.7	0.0
-20°	52.7	25.2	13.8	9.4	5.3	2.6	0.0



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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	49.2	24.0	13.5	9.1	5.2	2.6	0.0
-25°	45.3	22.7	13.1	8.9	5.1	2.5	0.0
-27.5°	41.0	21.3	12.8	8.6	5.0	2.5	0.0
-30°	36.4	19.7	12.4	8.3	4.8	2.4	0.0
-32.5°	31.4	18.0	11.9	8.0	4.7	2.4	0.0
-35°	28.3	16.2	11.5	7.7	4.6	2.3	0.0
-37.5°	25.9	14.7	11.0	7.3	4.4	2.2	0.0
-40°	23.5	14.0	10.5	7.0	4.3	2.1	0.0
-42.5°	20.9	13.4	9.9	6.6	4.1	2.1	0.0
-45°	18.1	12.7	9.4	6.1	4.0	2.0	0.0
-47.5°	15.3	11.9	8.8	5.7	3.8	1.9	0.0
-50°	14.1	11.1	8.2	5.4	3.6	1.8	0.0
-52.5°	13.1	10.3	7.6	5.1	3.4	1.7	0.0
-55°	12.2	9.5	6.9	4.8	3.2	1.6	0.0
-57.5°	11.1	8.7	6.3	4.5	3.0	1.5	0.0
-60°	10.1	7.8	5.6	4.2	2.8	1.4	0.0
-62.5°	9.0	7.0	5.2	3.9	2.6	1.3	0.0
-65°	8.0	6.1	4.7	3.5	2.4	1.2	0.0
-67.5°	6.9	5.3	4.3	3.2	2.1	1.1	0.0
-70°	5.7	4.8	3.8	2.9	1.9	1.0	0.0
-72.5°	5.0	4.2	3.4	2.5	1.7	0.8	0.0
-75°	4.3	3.6	2.9	2.2	1.4	0.7	0.0
-77.5°	3.6	3.0	2.4	1.8	1.2	0.6	0.0
-80°	2.9	2.4	1.9	1.5	1.0	0.5	0.0
-82.5°	2.2	1.8	1.5	1.1	0.7	0.4	0.0
-85°	1.4	1.2	1.0	0.7	0.5	0.2	0.0
-87.5°	0.7	0.6	0.5	0.4	0.2	0.1	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)

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

Scaled Data Report



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

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

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

Scaled Data Report

