

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: P731208 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-80-5S-HEG**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731208 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-5)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-40-80-5S-HEG
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 5S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

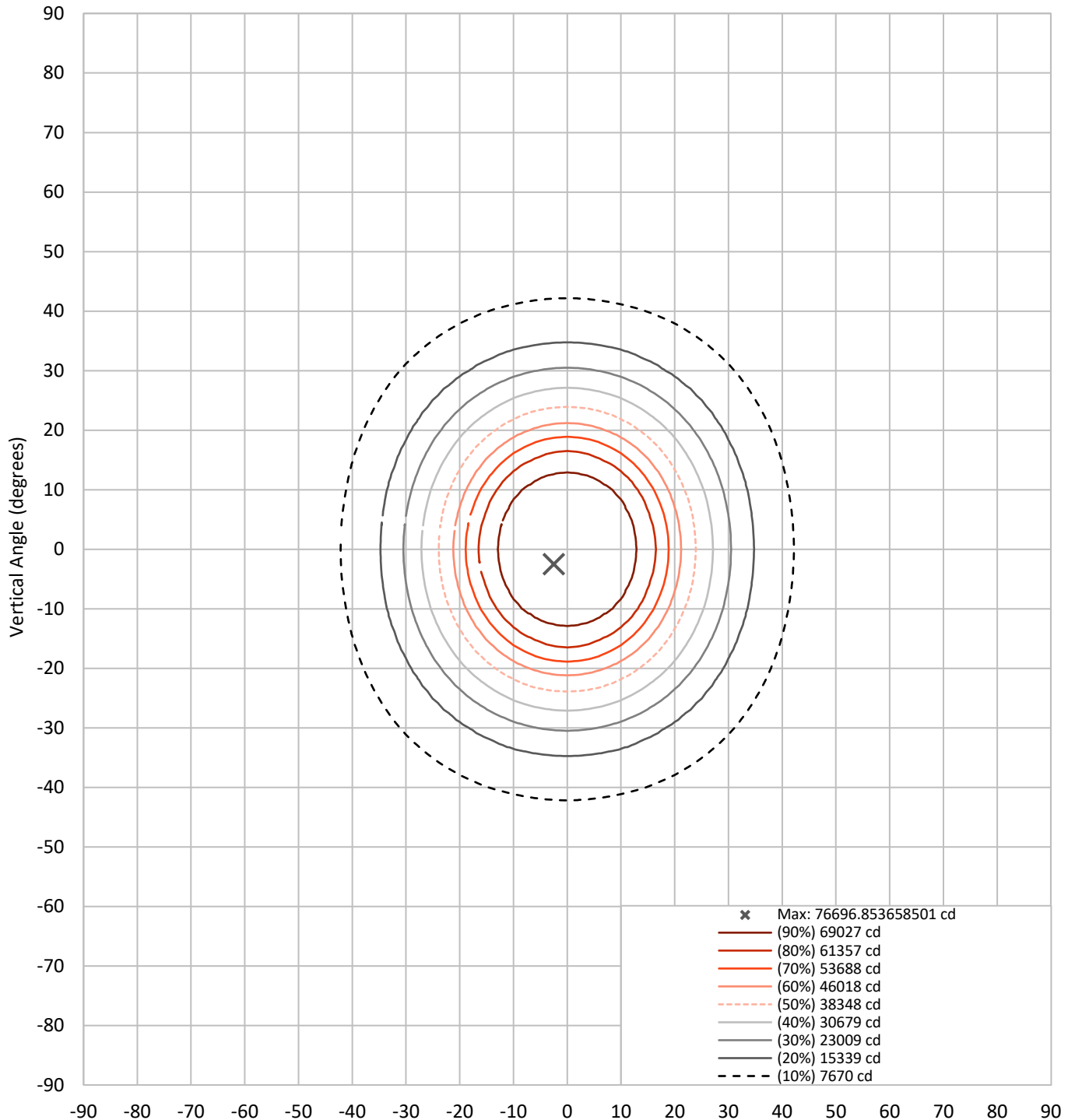
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	56060.7 lumens	Max Intensity:	76696.9 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x -2.5°V
Efficacy:	162.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	47.6°H x 47.6°V	Field Angle (10%):	84.3°H x 84.3°V
Beam Lumens:	31450.1 lumens	Field Lumens:	52234.8 lumens
Beam Efficiency:	56.1%	Field Efficiency:	93.2%

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

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Iso-Candela Plot





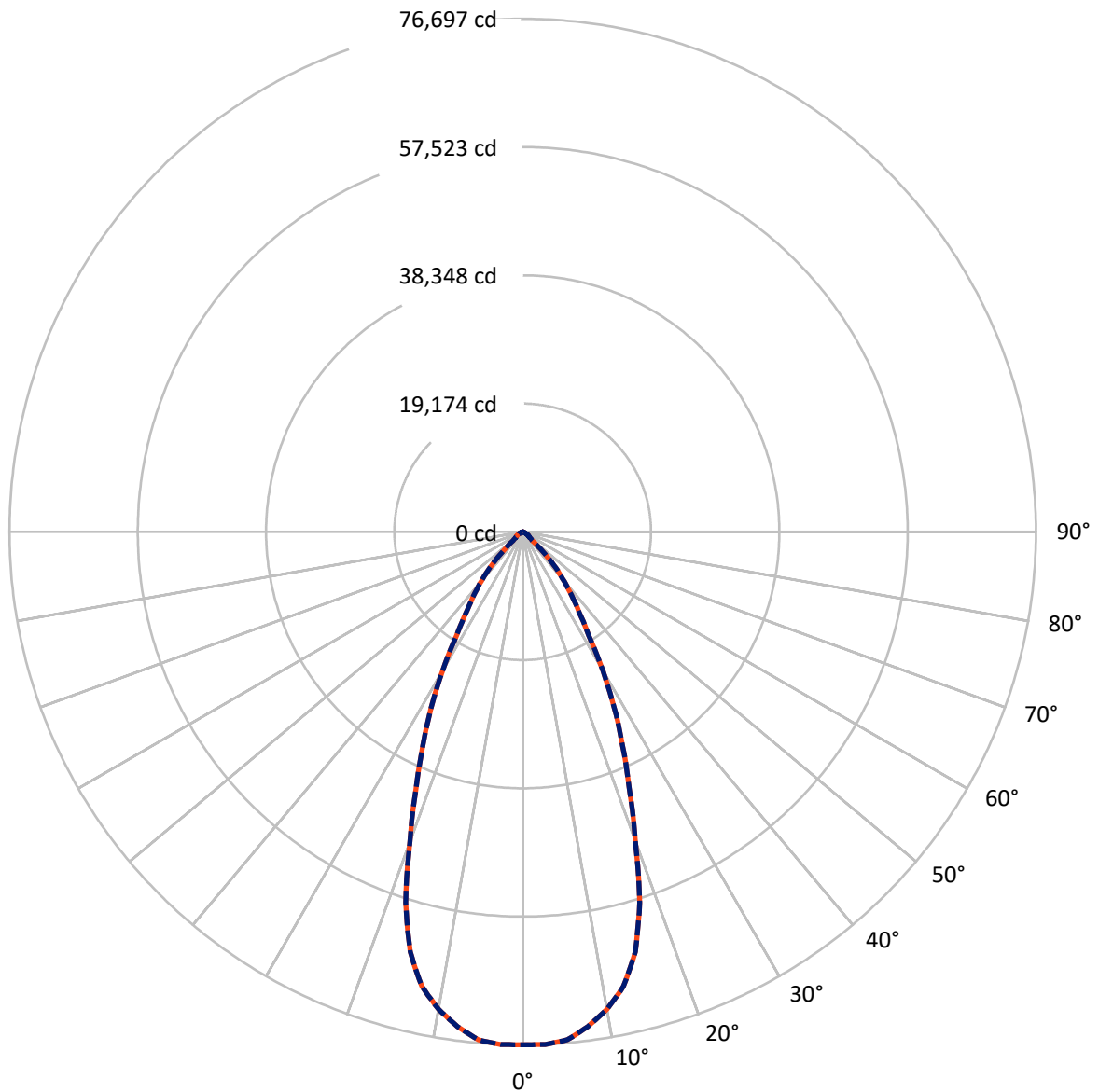
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Lumen Table

90																
80	0.1	0.5		1.8		3.8		4.8		3.8		1.8		0.5		0.1
70																
60	0.2	0.3	0.9	2.4	5.0	8.1	10.9	12.6	12.6	10.9	8.1	5.0	2.4	0.9	0.3	0.2
50		0.7	2.8	7.7	15.1	23.0	29.0	32.2	32.2	29.0	23.0	15.1	7.7	2.8	0.7	
40	0.6	1.5	6.3	16.0	27.7	49.9	101.6	143.0	143.0	101.6	49.9	27.7	16.0	6.3	1.5	0.6
30		2.7	10.7	24.0	69.6	210.6	355.6	455.6	455.6	355.6	210.6	69.6	24.0	10.7	2.7	
20	1.1	3.9	14.8	39.4	191.4	435.4	779.2	1045.8	1045.8	779.2	435.4	191.4	39.4	14.8	3.9	1.1
10		5.0	17.4	76.2	303.5	733.3	1362.7	1856.5	1856.5	1362.7	733.3	303.5	76.2	17.4	5.0	
0	1.3	5.5	18.8	104.1	377.7	955.5	1802.4	2249.9	2249.9	1802.4	955.5	377.7	104.1	18.8	5.5	1.3
-10		5.5	18.8	104.1	377.7	955.5	1802.4	2249.9	2249.9	1802.4	955.5	377.7	104.1	18.8	5.5	
-20	1.1	5.0	17.4	76.2	303.5	733.3	1362.7	1856.5	1856.5	1362.7	733.3	303.5	76.2	17.4	5.0	1.1
-30		3.9	14.8	39.4	191.4	435.4	779.2	1045.8	1045.8	779.2	435.4	191.4	39.4	14.8	3.9	
-40	0.6	2.7	10.7	24.0	69.6	210.6	355.6	455.6	455.6	355.6	210.6	69.6	24.0	10.7	2.7	0.6
-50		1.5	6.3	16.0	27.7	49.9	101.6	143.0	143.0	101.6	49.9	27.7	16.0	6.3	1.5	
-60	0.2	0.7	2.8	7.7	15.1	23.0	29.0	32.2	32.2	29.0	23.0	15.1	7.7	2.8	0.7	0.2
-70		0.3	0.9	2.4	5.0	8.1	10.9	12.6	12.6	10.9	8.1	5.0	2.4	0.9	0.3	
-80																
-90	0.1	0.5		1.8		3.8		4.8		3.8		1.8		0.5		0.1

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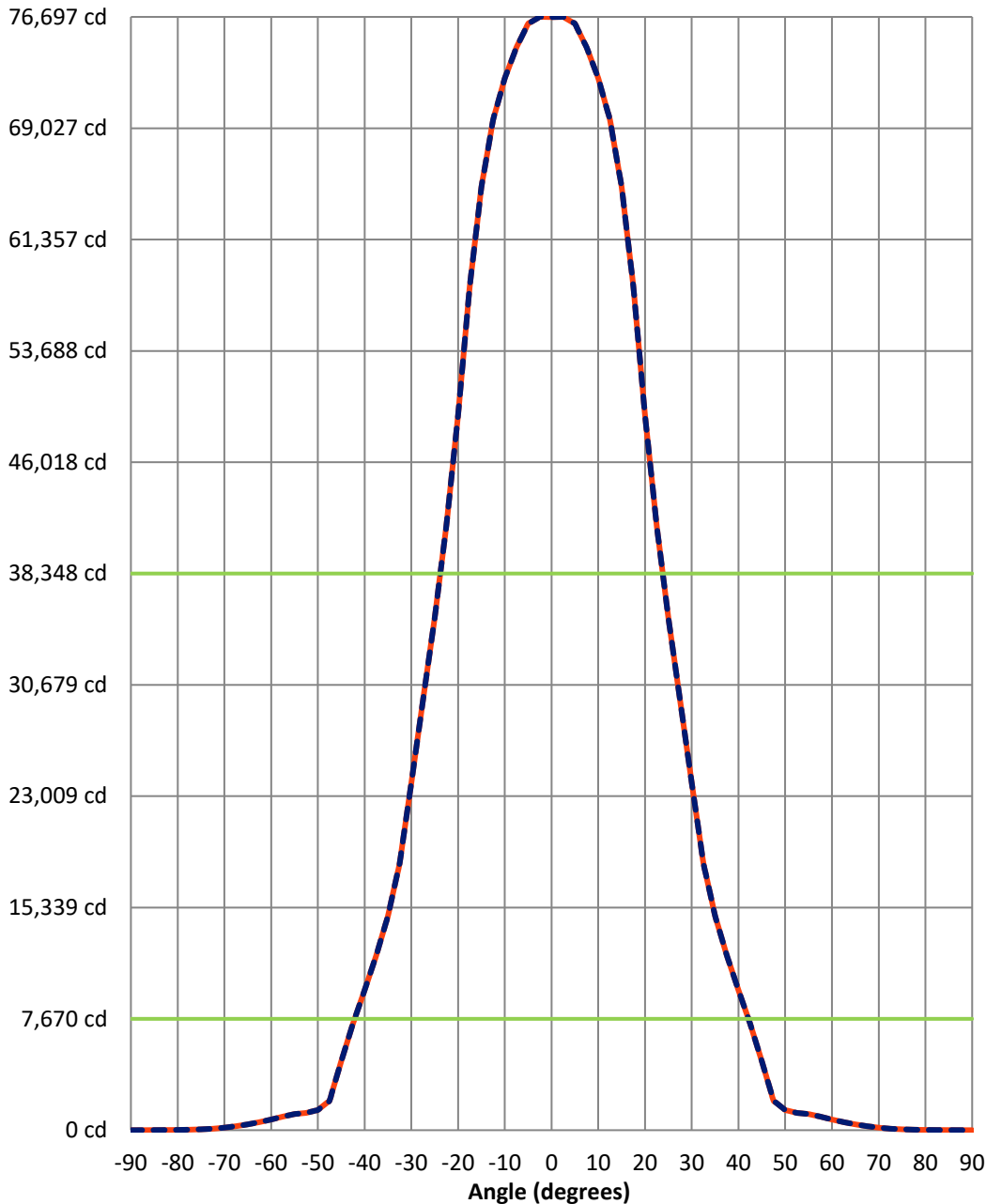
Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg - - - Horizontal Distribution Through -2.5-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 47.6°
 V Angle: 47.6°
 Lumens: 31450.1
 Efficiency: 56.1%

Field:
 H Angle: 84.3°
 V Angle: 84.3°
 Lumens: 52234.8
 Efficiency: 93.2%

Spill:
 Lumens: 3826
 Efficiency: 6.8%

- Vertical Distribution through -2.5-Deg
- - - Horizontal Distribution through -2.5-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	4.2	4.7
80°	0.0	0.6	1.3	1.9	2.6	3.2	3.8	4.4	5.0	5.6	6.2
77.5°	0.0	0.8	1.6	2.4	3.2	4.0	4.8	5.5	6.3	7.0	7.9
75°	0.0	1.0	1.9	2.9	3.8	4.8	5.7	6.6	7.5	8.7	9.8
72.5°	0.0	1.1	2.2	3.3	4.4	5.5	6.6	7.8	9.1	10.4	11.7
70°	0.0	1.3	2.5	3.8	5.0	6.3	7.5	9.1	10.6	12.2	14.2
67.5°	0.0	1.4	2.8	4.2	5.6	7.0	8.7	10.4	12.2	14.5	16.8
65°	0.0	1.6	3.1	4.7	6.2	7.9	9.8	11.7	14.2	16.8	20.3
62.5°	0.0	1.7	3.4	5.1	6.8	8.8	10.9	13.4	16.2	19.7	26.1
60°	0.0	1.8	3.7	5.5	7.4	9.7	12.0	15.1	18.2	24.7	31.7
57.5°	0.0	2.0	4.0	6.0	8.1	10.6	13.4	16.8	22.1	29.7	40.2
55°	0.0	2.1	4.2	6.4	8.7	11.4	14.8	18.4	26.4	35.4	50.0
52.5°	0.0	2.3	4.5	6.7	9.4	12.3	16.2	21.9	30.6	44.0	59.5
50°	0.0	2.4	4.8	7.1	10.0	13.4	17.5	25.4	35.7	52.3	72.4
47.5°	0.0	2.5	5.0	7.5	10.7	14.5	19.0	28.9	42.8	60.3	85.4
45°	0.0	2.6	5.2	8.0	11.3	15.5	21.8	32.2	49.7	71.4	97.8
42.5°	0.0	2.7	5.5	8.4	11.8	16.5	24.6	36.8	56.2	82.2	119.1
40°	0.0	2.8	5.7	8.8	12.5	17.4	27.2	42.3	63.5	92.5	141.0
37.5°	0.0	2.9	5.9	9.2	13.2	18.3	29.6	47.6	72.1	104.8	161.9
35°	0.0	3.0	6.1	9.5	13.9	19.9	32.0	52.5	80.4	122.5	184.4
32.5°	0.0	3.1	6.2	9.9	14.5	21.7	34.7	57.2	88.1	139.2	209.8
30°	0.0	3.2	6.4	10.2	15.1	23.4	38.4	62.0	95.4	154.9	233.7
27.5°	0.0	3.3	6.6	10.5	15.6	25.0	41.8	67.8	104.4	169.4	255.9
25°	0.0	3.4	6.7	10.8	16.1	26.4	45.0	73.2	116.2	186.0	276.6
22.5°	0.0	3.4	6.8	11.0	16.6	27.7	47.9	78.2	127.0	202.7	299.9
20°	0.0	3.5	7.0	11.2	17.0	28.9	50.5	82.6	136.8	217.7	321.0
17.5°	0.0	3.5	7.1	11.4	17.4	30.0	52.8	86.6	145.4	231.1	339.8
15°	0.0	3.6	7.1	11.6	17.7	30.9	54.9	90.0	153.0	242.8	356.2
12.5°	0.0	3.6	7.2	11.8	18.0	31.7	56.6	92.9	159.4	252.7	370.1
10°	0.0	3.6	7.3	11.9	18.2	32.4	58.0	95.3	164.7	260.9	381.6
7.5°	0.0	3.7	7.3	12.0	18.4	32.9	59.1	97.2	168.8	267.3	390.5
5°	0.0	3.7	7.4	12.0	18.5	33.2	59.9	98.5	171.7	271.8	397.0
2.5°	0.0	3.7	7.4	12.1	18.6	33.4	60.3	99.3	173.5	274.6	400.8
0°	0.0	3.7	7.4	12.1	18.6	33.5	60.5	99.6	174.1	275.5	402.1
-2.5°	0.0	3.7	7.4	12.1	18.6	33.5	60.5	99.6	174.1	275.5	402.1
-5°	0.0	3.7	7.4	12.0	18.5	33.2	59.9	98.5	171.7	271.8	397.0
-7.5°	0.0	3.7	7.3	12.0	18.4	32.9	59.1	97.2	168.8	267.3	390.5
-10°	0.0	3.6	7.3	11.9	18.2	32.4	58.0	95.3	164.7	260.9	381.6
-12.5°	0.0	3.6	7.2	11.8	18.0	31.7	56.6	92.9	159.4	252.7	370.1
-15°	0.0	3.6	7.1	11.6	17.7	30.9	54.9	90.0	153.0	242.8	356.2
-17.5°	0.0	3.5	7.1	11.4	17.4	30.0	52.8	86.6	145.4	231.1	339.8
-20°	0.0	3.5	7.0	11.2	17.0	28.9	50.5	82.6	136.8	217.7	321.0



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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	6.8	11.0	16.6	27.7	47.9	78.2	127.0	202.7	299.9
-25°	0.0	3.4	6.7	10.8	16.1	26.4	45.0	73.2	116.2	186.0	276.6
-27.5°	0.0	3.3	6.6	10.5	15.6	25.0	41.8	67.8	104.4	169.4	255.9
-30°	0.0	3.2	6.4	10.2	15.1	23.4	38.4	62.0	95.4	154.9	233.7
-32.5°	0.0	3.1	6.2	9.9	14.5	21.7	34.7	57.2	88.1	139.2	209.8
-35°	0.0	3.0	6.1	9.5	13.9	19.9	32.0	52.5	80.4	122.5	184.4
-37.5°	0.0	2.9	5.9	9.2	13.2	18.3	29.6	47.6	72.1	104.8	161.9
-40°	0.0	2.8	5.7	8.8	12.5	17.4	27.2	42.3	63.5	92.5	141.0
-42.5°	0.0	2.7	5.5	8.4	11.8	16.5	24.6	36.8	56.2	82.2	119.1
-45°	0.0	2.6	5.2	8.0	11.3	15.5	21.8	32.2	49.7	71.4	97.8
-47.5°	0.0	2.5	5.0	7.5	10.7	14.5	19.0	28.9	42.8	60.3	85.4
-50°	0.0	2.4	4.8	7.1	10.0	13.4	17.5	25.4	35.7	52.3	72.4
-52.5°	0.0	2.3	4.5	6.7	9.4	12.3	16.2	21.9	30.6	44.0	59.5
-55°	0.0	2.1	4.2	6.4	8.7	11.4	14.8	18.4	26.4	35.4	50.0
-57.5°	0.0	2.0	4.0	6.0	8.1	10.6	13.4	16.8	22.1	29.7	40.2
-60°	0.0	1.8	3.7	5.5	7.4	9.7	12.0	15.1	18.2	24.7	31.7
-62.5°	0.0	1.7	3.4	5.1	6.8	8.8	10.9	13.4	16.2	19.7	26.1
-65°	0.0	1.6	3.1	4.7	6.2	7.9	9.8	11.7	14.2	16.8	20.3
-67.5°	0.0	1.4	2.8	4.2	5.6	7.0	8.7	10.4	12.2	14.5	16.8
-70°	0.0	1.3	2.5	3.8	5.0	6.3	7.5	9.1	10.6	12.2	14.2
-72.5°	0.0	1.1	2.2	3.3	4.4	5.5	6.6	7.8	9.1	10.4	11.7
-75°	0.0	1.0	1.9	2.9	3.8	4.8	5.7	6.6	7.5	8.7	9.8
-77.5°	0.0	0.8	1.6	2.4	3.2	4.0	4.8	5.5	6.3	7.0	7.9
-80°	0.0	0.6	1.3	1.9	2.6	3.2	3.8	4.4	5.0	5.6	6.2
-82.5°	0.0	0.5	1.0	1.4	1.9	2.4	2.9	3.3	3.8	4.2	4.7
-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	4.0	4.2	4.5	4.8	5.0	5.2	5.5	5.7	5.9
82.5°	5.1	5.5	6.0	6.4	6.7	7.1	7.5	8.0	8.4	8.8	9.2
80°	6.8	7.4	8.1	8.7	9.4	10.0	10.7	11.3	11.8	12.5	13.2
77.5°	8.8	9.7	10.6	11.4	12.3	13.4	14.5	15.5	16.5	17.4	18.3
75°	10.9	12.0	13.4	14.8	16.2	17.5	19.0	21.8	24.6	27.2	29.6
72.5°	13.4	15.1	16.8	18.4	21.9	25.4	28.9	32.2	36.8	42.3	47.6
70°	16.2	18.2	22.1	26.4	30.6	35.7	42.8	49.7	56.2	63.5	72.1
67.5°	19.7	24.7	29.7	35.4	44.0	52.3	60.3	71.4	82.2	92.5	104.8
65°	26.1	31.7	40.2	50.0	59.5	72.4	85.4	97.8	119.1	141.0	161.9
62.5°	32.4	42.7	53.6	66.1	81.2	95.9	119.8	146.0	171.2	203.1	234.5
60°	42.7	54.9	69.6	86.6	106.2	136.8	166.4	202.7	240.3	276.6	319.6
57.5°	53.6	69.6	88.3	113.0	147.0	182.4	226.2	268.6	317.9	366.9	416.4
55°	66.1	86.6	113.0	150.5	191.8	240.4	290.7	347.8	403.1	467.9	529.9
52.5°	81.2	106.2	147.0	191.8	245.2	302.6	365.9	432.8	505.2	577.8	655.2
50°	95.9	136.8	182.4	240.4	302.6	371.9	447.7	527.8	613.0	699.5	789.0
47.5°	119.8	166.4	226.2	290.7	365.9	447.7	535.4	630.7	726.3	830.0	931.0
45°	146.0	202.7	268.6	347.8	432.8	527.8	630.7	735.3	850.7	959.1	1051.9
42.5°	171.2	240.3	317.9	403.1	505.2	613.0	726.3	850.7	968.2	1070.4	1138.1
40°	203.1	276.6	366.9	467.9	577.8	699.5	830.0	959.1	1070.4	1142.4	1189.1
37.5°	234.5	319.6	416.4	529.9	655.2	789.0	931.0	1051.9	1138.1	1189.1	1313.7
35°	264.3	360.5	470.8	594.1	729.0	879.2	1015.4	1125.6	1180.5	1302.4	1533.3
32.5°	296.7	399.1	522.4	658.9	807.7	961.3	1094.7	1163.6	1268.4	1458.7	1915.9
30°	329.7	442.8	573.1	719.9	882.8	1031.1	1138.5	1212.6	1368.4	1801.7	3036.6
27.5°	360.5	484.2	625.4	782.5	951.0	1096.5	1170.0	1300.6	1614.1	2381.6	4499.7
25°	388.9	522.4	673.9	842.6	1007.2	1132.9	1212.1	1382.7	1897.6	3666.0	5809.6
22.5°	417.7	557.5	718.3	897.7	1058.9	1158.0	1282.4	1600.4	2525.1	4854.5	7011.5
20°	446.3	594.1	761.6	946.3	1105.7	1180.7	1346.4	1822.7	3538.2	5880.0	8039.3
17.5°	471.8	626.7	802.4	984.7	1128.6	1216.5	1424.4	2022.3	4450.0	6805.1	8933.1
15°	494.1	655.2	838.0	1018.3	1145.0	1262.9	1586.4	2685.5	5226.8	7598.4	9726.5
12.5°	513.0	679.5	868.4	1047.0	1159.0	1302.6	1725.2	3322.4	5876.1	8228.9	10439.0
10°	528.7	699.5	893.4	1070.7	1170.6	1335.4	1840.0	3849.8	6414.6	8752.7	11032.3
7.5°	540.8	715.1	913.0	1089.2	1179.7	1361.1	1930.0	4264.1	6838.1	9165.3	11500.6
5°	549.6	726.3	927.0	1102.5	1186.2	1379.6	1994.7	4562.2	7143.2	9462.9	11838.8
2.5°	554.8	733.0	935.5	1110.5	1190.1	1390.7	2033.8	4741.9	7327.3	9642.7	12043.3
0°	556.6	735.3	938.3	1113.2	1191.4	1394.4	2046.8	4802.0	7388.8	9702.8	12111.7
-2.5°	554.8	733.0	935.5	1110.5	1190.1	1390.7	2033.8	4741.9	7327.3	9642.7	12043.3
-5°	549.6	726.3	927.0	1102.5	1186.2	1379.6	1994.7	4562.2	7143.2	9462.9	11838.8
-7.5°	540.8	715.1	913.0	1089.2	1179.7	1361.1	1930.0	4264.1	6838.1	9165.3	11500.6
-10°	528.7	699.5	893.4	1070.7	1170.6	1335.4	1840.0	3849.8	6414.6	8752.7	11032.3
-12.5°	513.0	679.5	868.4	1047.0	1159.0	1302.6	1725.2	3322.4	5876.1	8228.9	10439.0
-15°	494.1	655.2	838.0	1018.3	1145.0	1262.9	1586.4	2685.5	5226.8	7598.4	9726.5
-17.5°	471.8	626.7	802.4	984.7	1128.6	1216.5	1424.4	2022.3	4450.0	6805.1	8933.1
-20°	446.3	594.1	761.6	946.3	1105.7	1180.7	1346.4	1822.7	3538.2	5880.0	8039.3



REPORT NUMBER: P731208 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	417.7	557.5	718.3	897.7	1058.9	1158.0	1282.4	1600.4	2525.1	4854.5	7011.5
-25°	388.9	522.4	673.9	842.6	1007.2	1132.9	1212.1	1382.7	1897.6	3666.0	5809.6
-27.5°	360.5	484.2	625.4	782.5	951.0	1096.5	1170.0	1300.6	1614.1	2381.6	4499.7
-30°	329.7	442.8	573.1	719.9	882.8	1031.1	1138.5	1212.6	1368.4	1801.7	3036.6
-32.5°	296.7	399.1	522.4	658.9	807.7	961.3	1094.7	1163.6	1268.4	1458.7	1915.9
-35°	264.3	360.5	470.8	594.1	729.0	879.2	1015.4	1125.6	1180.5	1302.4	1533.3
-37.5°	234.5	319.6	416.4	529.9	655.2	789.0	931.0	1051.9	1138.1	1189.1	1313.7
-40°	203.1	276.6	366.9	467.9	577.8	699.5	830.0	959.1	1070.4	1142.4	1189.1
-42.5°	171.2	240.3	317.9	403.1	505.2	613.0	726.3	850.7	968.2	1070.4	1138.1
-45°	146.0	202.7	268.6	347.8	432.8	527.8	630.7	735.3	850.7	959.1	1051.9
-47.5°	119.8	166.4	226.2	290.7	365.9	447.7	535.4	630.7	726.3	830.0	931.0
-50°	95.9	136.8	182.4	240.4	302.6	371.9	447.7	527.8	613.0	699.5	789.0
-52.5°	81.2	106.2	147.0	191.8	245.2	302.6	365.9	432.8	505.2	577.8	655.2
-55°	66.1	86.6	113.0	150.5	191.8	240.4	290.7	347.8	403.1	467.9	529.9
-57.5°	53.6	69.6	88.3	113.0	147.0	182.4	226.2	268.6	317.9	366.9	416.4
-60°	42.7	54.9	69.6	86.6	106.2	136.8	166.4	202.7	240.3	276.6	319.6
-62.5°	32.4	42.7	53.6	66.1	81.2	95.9	119.8	146.0	171.2	203.1	234.5
-65°	26.1	31.7	40.2	50.0	59.5	72.4	85.4	97.8	119.1	141.0	161.9
-67.5°	19.7	24.7	29.7	35.4	44.0	52.3	60.3	71.4	82.2	92.5	104.8
-70°	16.2	18.2	22.1	26.4	30.6	35.7	42.8	49.7	56.2	63.5	72.1
-72.5°	13.4	15.1	16.8	18.4	21.9	25.4	28.9	32.2	36.8	42.3	47.6
-75°	10.9	12.0	13.4	14.8	16.2	17.5	19.0	21.8	24.6	27.2	29.6
-77.5°	8.8	9.7	10.6	11.4	12.3	13.4	14.5	15.5	16.5	17.4	18.3
-80°	6.8	7.4	8.1	8.7	9.4	10.0	10.7	11.3	11.8	12.5	13.2
-82.5°	5.1	5.5	6.0	6.4	6.7	7.1	7.5	8.0	8.4	8.8	9.2
-85°	3.4	3.7	4.0	4.2	4.5	4.8	5.0	5.2	5.5	5.7	5.9
-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: P731208 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-5S-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°	6.1	6.2	6.4	6.6	6.7	6.8	7.0	7.1	7.1	7.2	7.3
82.5°	9.5	9.9	10.2	10.5	10.8	11.0	11.2	11.4	11.6	11.8	11.9
80°	13.9	14.5	15.1	15.6	16.1	16.6	17.0	17.4	17.7	18.0	18.2
77.5°	19.9	21.7	23.4	25.0	26.4	27.7	28.9	30.0	30.9	31.7	32.4
75°	32.0	34.7	38.4	41.8	45.0	47.9	50.5	52.8	54.9	56.6	58.0
72.5°	52.5	57.2	62.0	67.8	73.2	78.2	82.6	86.6	90.0	92.9	95.3
70°	80.4	88.1	95.4	104.4	116.2	127.0	136.8	145.4	153.0	159.4	164.7
67.5°	122.5	139.2	154.9	169.4	186.0	202.7	217.7	231.1	242.8	252.7	260.9
65°	184.4	209.8	233.7	255.9	276.6	299.9	321.0	339.8	356.2	370.1	381.6
62.5°	264.3	296.7	329.7	360.5	388.9	417.7	446.3	471.8	494.1	513.0	528.7
60°	360.5	399.1	442.8	484.2	522.4	557.5	594.1	626.7	655.2	679.5	699.5
57.5°	470.8	522.4	573.1	625.4	673.9	718.3	761.6	802.4	838.0	868.4	893.4
55°	594.1	658.9	719.9	782.5	842.6	897.7	946.3	984.7	1018.3	1047.0	1070.7
52.5°	729.0	807.7	882.8	951.0	1007.2	1058.9	1105.7	1128.6	1145.0	1159.0	1170.6
50°	879.2	961.3	1031.1	1096.5	1132.9	1158.0	1180.7	1216.5	1262.9	1302.6	1335.4
47.5°	1015.4	1094.7	1138.5	1170.0	1212.1	1282.4	1346.4	1424.4	1586.4	1725.2	1840.0
45°	1125.6	1163.6	1212.6	1300.6	1382.7	1600.4	1822.7	2022.3	2685.5	3322.4	3849.8
42.5°	1180.5	1268.4	1368.4	1614.1	1897.6	2525.1	3538.2	4450.0	5226.8	5876.1	6414.6
40°	1302.4	1458.7	1801.7	2381.6	3666.0	4854.5	5880.0	6805.1	7598.4	8228.9	8752.7
37.5°	1533.3	1915.9	3036.6	4499.7	5809.6	7011.5	8039.3	8933.1	9726.5	10439.0	11032.3
35°	1954.2	3367.8	4995.1	6459.5	7792.9	8946.3	10022.3	11026.9	11920.5	12772.8	13505.9
32.5°	3367.8	5155.4	6788.5	8245.8	9565.0	10846.2	12037.0	13257.5	14356.0	15469.5	16541.4
30°	4995.1	6788.5	8398.1	9886.1	11350.6	12811.2	14263.7	15847.0	17443.7	19014.2	20814.4
27.5°	6459.5	8245.8	9886.1	11520.4	13209.9	14894.2	16986.2	19125.4	21788.1	24123.6	26134.5
25°	7792.9	9565.0	11350.6	13209.9	15173.5	17566.9	20514.2	23706.0	26646.8	29249.2	31447.8
22.5°	8946.3	10846.2	12811.2	14894.2	17566.9	20983.7	24697.9	28211.9	31407.4	34236.2	36803.1
20°	10022.3	12037.0	14263.7	16986.2	20514.2	24697.9	28742.7	32515.0	36035.5	39553.8	42711.4
17.5°	11026.9	13257.5	15847.0	19125.4	23706.0	28211.9	32515.0	36708.0	40979.8	45420.7	49478.2
15°	11920.5	14356.0	17443.7	21788.1	26646.8	31407.4	36035.5	40979.8	46350.0	51766.8	57078.6
12.5°	12772.8	15469.5	19014.2	24123.6	29249.2	34236.2	39553.8	45420.7	51766.8	58368.7	62933.0
10°	13505.9	16541.4	20814.4	26134.5	31447.8	36803.1	42711.4	49478.2	57078.6	62933.0	67322.9
7.5°	14085.8	17391.6	22247.0	27741.7	33210.3	39020.9	45684.9	53358.0	60836.1	66438.3	69986.7
5°	14505.4	18008.2	23288.9	28914.6	34502.2	40655.9	47894.0	56301.8	63379.1	68477.4	71602.9
2.5°	14759.4	18382.0	23921.7	29628.8	35291.4	41659.0	49257.1	58133.1	64980.3	69607.0	72470.9
0°	14844.5	18507.3	24134.0	29868.7	35556.9	41997.2	49718.2	58755.4	65528.0	69954.0	72767.8
-2.5°	14759.4	18382.0	23921.7	29628.8	35291.4	41659.0	49257.1	58133.1	64980.3	69607.0	72470.9
-5°	14505.4	18008.2	23288.9	28914.6	34502.2	40655.9	47894.0	56301.8	63379.1	68477.4	71602.9
-7.5°	14085.8	17391.6	22247.0	27741.7	33210.3	39020.9	45684.9	53358.0	60836.1	66438.3	69986.7
-10°	13505.9	16541.4	20814.4	26134.5	31447.8	36803.1	42711.4	49478.2	57078.6	62933.0	67322.9
-12.5°	12772.8	15469.5	19014.2	24123.6	29249.2	34236.2	39553.8	45420.7	51766.8	58368.7	62933.0
-15°	11920.5	14356.0	17443.7	21788.1	26646.8	31407.4	36035.5	40979.8	46350.0	51766.8	57078.6
-17.5°	11026.9	13257.5	15847.0	19125.4	23706.0	28211.9	32515.0	36708.0	40979.8	45420.7	49478.2
-20°	10022.3	12037.0	14263.7	16986.2	20514.2	24697.9	28742.7	32515.0	36035.5	39553.8	42711.4



REPORT NUMBER: P731208 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	8946.3	10846.2	12811.2	14894.2	17566.9	20983.7	24697.9	28211.9	31407.4	34236.2	36803.1
-25°	7792.9	9565.0	11350.6	13209.9	15173.5	17566.9	20514.2	23706.0	26646.8	29249.2	31447.8
-27.5°	6459.5	8245.8	9886.1	11520.4	13209.9	14894.2	16986.2	19125.4	21788.1	24123.6	26134.5
-30°	4995.1	6788.5	8398.1	9886.1	11350.6	12811.2	14263.7	15847.0	17443.7	19014.2	20814.4
-32.5°	3367.8	5155.4	6788.5	8245.8	9565.0	10846.2	12037.0	13257.5	14356.0	15469.5	16541.4
-35°	1954.2	3367.8	4995.1	6459.5	7792.9	8946.3	10022.3	11026.9	11920.5	12772.8	13505.9
-37.5°	1533.3	1915.9	3036.6	4499.7	5809.6	7011.5	8039.3	8933.1	9726.5	10439.0	11032.3
-40°	1302.4	1458.7	1801.7	2381.6	3666.0	4854.5	5880.0	6805.1	7598.4	8228.9	8752.7
-42.5°	1180.5	1268.4	1368.4	1614.1	1897.6	2525.1	3538.2	4450.0	5226.8	5876.1	6414.6
-45°	1125.6	1163.6	1212.6	1300.6	1382.7	1600.4	1822.7	2022.3	2685.5	3322.4	3849.8
-47.5°	1015.4	1094.7	1138.5	1170.0	1212.1	1282.4	1346.4	1424.4	1586.4	1725.2	1840.0
-50°	879.2	961.3	1031.1	1096.5	1132.9	1158.0	1180.7	1216.5	1262.9	1302.6	1335.4
-52.5°	729.0	807.7	882.8	951.0	1007.2	1058.9	1105.7	1128.6	1145.0	1159.0	1170.6
-55°	594.1	658.9	719.9	782.5	842.6	897.7	946.3	984.7	1018.3	1047.0	1070.7
-57.5°	470.8	522.4	573.1	625.4	673.9	718.3	761.6	802.4	838.0	868.4	893.4
-60°	360.5	399.1	442.8	484.2	522.4	557.5	594.1	626.7	655.2	679.5	699.5
-62.5°	264.3	296.7	329.7	360.5	388.9	417.7	446.3	471.8	494.1	513.0	528.7
-65°	184.4	209.8	233.7	255.9	276.6	299.9	321.0	339.8	356.2	370.1	381.6
-67.5°	122.5	139.2	154.9	169.4	186.0	202.7	217.7	231.1	242.8	252.7	260.9
-70°	80.4	88.1	95.4	104.4	116.2	127.0	136.8	145.4	153.0	159.4	164.7
-72.5°	52.5	57.2	62.0	67.8	73.2	78.2	82.6	86.6	90.0	92.9	95.3
-75°	32.0	34.7	38.4	41.8	45.0	47.9	50.5	52.8	54.9	56.6	58.0
-77.5°	19.9	21.7	23.4	25.0	26.4	27.7	28.9	30.0	30.9	31.7	32.4
-80°	13.9	14.5	15.1	15.6	16.1	16.6	17.0	17.4	17.7	18.0	18.2
-82.5°	9.5	9.9	10.2	10.5	10.8	11.0	11.2	11.4	11.6	11.8	11.9
-85°	6.1	6.2	6.4	6.6	6.7	6.8	7.0	7.1	7.1	7.2	7.3
-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: P731208 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-5S-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°	7.3	7.4	7.4	7.4	7.4	7.4	7.3	7.3	7.2	7.1	7.1
82.5°	12.0	12.0	12.1	12.1	12.1	12.0	12.0	11.9	11.8	11.6	11.4
80°	18.4	18.5	18.6	18.6	18.6	18.5	18.4	18.2	18.0	17.7	17.4
77.5°	32.9	33.2	33.4	33.5	33.4	33.2	32.9	32.4	31.7	30.9	30.0
75°	59.1	59.9	60.3	60.5	60.3	59.9	59.1	58.0	56.6	54.9	52.8
72.5°	97.2	98.5	99.3	99.6	99.3	98.5	97.2	95.3	92.9	90.0	86.6
70°	168.8	171.7	173.5	174.1	173.5	171.7	168.8	164.7	159.4	153.0	145.4
67.5°	267.3	271.8	274.6	275.5	274.6	271.8	267.3	260.9	252.7	242.8	231.1
65°	390.5	397.0	400.8	402.1	400.8	397.0	390.5	381.6	370.1	356.2	339.8
62.5°	540.8	549.6	554.8	556.6	554.8	549.6	540.8	528.7	513.0	494.1	471.8
60°	715.1	726.3	733.0	735.3	733.0	726.3	715.1	699.5	679.5	655.2	626.7
57.5°	913.0	927.0	935.5	938.3	935.5	927.0	913.0	893.4	868.4	838.0	802.4
55°	1089.2	1102.5	1110.5	1113.2	1110.5	1102.5	1089.2	1070.7	1047.0	1018.3	984.7
52.5°	1179.7	1186.2	1190.1	1191.4	1190.1	1186.2	1179.7	1170.6	1159.0	1145.0	1128.6
50°	1361.1	1379.6	1390.7	1394.4	1390.7	1379.6	1361.1	1335.4	1302.6	1262.9	1216.5
47.5°	1930.0	1994.7	2033.8	2046.8	2033.8	1994.7	1930.0	1840.0	1725.2	1586.4	1424.4
45°	4264.1	4562.2	4741.9	4802.0	4741.9	4562.2	4264.1	3849.8	3322.4	2685.5	2022.3
42.5°	6838.1	7143.2	7327.3	7388.8	7327.3	7143.2	6838.1	6414.6	5876.1	5226.8	4450.0
40°	9165.3	9462.9	9642.7	9702.8	9642.7	9462.9	9165.3	8752.7	8228.9	7598.4	6805.1
37.5°	11500.6	11838.8	12043.3	12111.7	12043.3	11838.8	11500.6	11032.3	10439.0	9726.5	8933.1
35°	14085.8	14505.4	14759.4	14844.5	14759.4	14505.4	14085.8	13505.9	12772.8	11920.5	11026.9
32.5°	17391.6	18008.2	18382.0	18507.3	18382.0	18008.2	17391.6	16541.4	15469.5	14356.0	13257.5
30°	22247.0	23288.9	23921.7	24134.0	23921.7	23288.9	22247.0	20814.4	19014.2	17443.7	15847.0
27.5°	27741.7	28914.6	29628.8	29868.7	29628.8	28914.6	27741.7	26134.5	24123.6	21788.1	19125.4
25°	33210.3	34502.2	35291.4	35556.9	35291.4	34502.2	33210.3	31447.8	29249.2	26646.8	23706.0
22.5°	39020.9	40655.9	41659.0	41997.2	41659.0	40655.9	39020.9	36803.1	34236.2	31407.4	28211.9
20°	45684.9	47894.0	49257.1	49718.2	49257.1	47894.0	45684.9	42711.4	39553.8	36035.5	32515.0
17.5°	53358.0	56301.8	58133.1	58755.4	58133.1	56301.8	53358.0	49478.2	45420.7	40979.8	36708.0
15°	60836.1	63379.1	64980.3	65528.0	64980.3	63379.1	60836.1	57078.6	51766.8	46350.0	40979.8
12.5°	66438.3	68477.4	69607.0	69954.0	69607.0	68477.4	66438.3	62933.0	58368.7	51766.8	45420.7
10°	69986.7	71602.9	72470.9	72767.8	72470.9	71602.9	69986.7	67322.9	62933.0	57078.6	49478.2
7.5°	72191.5	73695.9	74599.5	74918.0	74599.5	73695.9	72191.5	69986.7	66438.3	60836.1	53358.0
5°	73695.9	75260.1	76230.5	76526.4	76230.5	75260.1	73695.9	71602.9	68477.4	63379.1	56301.8
2.5°	74599.5	76230.5	76696.9	76681.0	76696.9	76230.5	74599.5	72470.9	69607.0	64980.3	58133.1
0°	74918.0	76526.4	76681.0	76385.0	76681.0	76526.4	74918.0	72767.8	69954.0	65528.0	58755.4
-2.5°	74599.5	76230.5	76696.9	76681.0	76696.9	76230.5	74599.5	72470.9	69607.0	64980.3	58133.1
-5°	73695.9	75260.1	76230.5	76526.4	76230.5	75260.1	73695.9	71602.9	68477.4	63379.1	56301.8
-7.5°	72191.5	73695.9	74599.5	74918.0	74599.5	73695.9	72191.5	69986.7	66438.3	60836.1	53358.0
-10°	69986.7	71602.9	72470.9	72767.8	72470.9	71602.9	69986.7	67322.9	62933.0	57078.6	49478.2
-12.5°	66438.3	68477.4	69607.0	69954.0	69607.0	68477.4	66438.3	62933.0	58368.7	51766.8	45420.7
-15°	60836.1	63379.1	64980.3	65528.0	64980.3	63379.1	60836.1	57078.6	51766.8	46350.0	40979.8
-17.5°	53358.0	56301.8	58133.1	58755.4	58133.1	56301.8	53358.0	49478.2	45420.7	40979.8	36708.0
-20°	45684.9	47894.0	49257.1	49718.2	49257.1	47894.0	45684.9	42711.4	39553.8	36035.5	32515.0



REPORT NUMBER: P731208 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	39020.9	40655.9	41659.0	41997.2	41659.0	40655.9	39020.9	36803.1	34236.2	31407.4	28211.9
-25°	33210.3	34502.2	35291.4	35556.9	35291.4	34502.2	33210.3	31447.8	29249.2	26646.8	23706.0
-27.5°	27741.7	28914.6	29628.8	29868.7	29628.8	28914.6	27741.7	26134.5	24123.6	21788.1	19125.4
-30°	22247.0	23288.9	23921.7	24134.0	23921.7	23288.9	22247.0	20814.4	19014.2	17443.7	15847.0
-32.5°	17391.6	18008.2	18382.0	18507.3	18382.0	18008.2	17391.6	16541.4	15469.5	14356.0	13257.5
-35°	14085.8	14505.4	14759.4	14844.5	14759.4	14505.4	14085.8	13505.9	12772.8	11920.5	11026.9
-37.5°	11500.6	11838.8	12043.3	12111.7	12043.3	11838.8	11500.6	11032.3	10439.0	9726.5	8933.1
-40°	9165.3	9462.9	9642.7	9702.8	9642.7	9462.9	9165.3	8752.7	8228.9	7598.4	6805.1
-42.5°	6838.1	7143.2	7327.3	7388.8	7327.3	7143.2	6838.1	6414.6	5876.1	5226.8	4450.0
-45°	4264.1	4562.2	4741.9	4802.0	4741.9	4562.2	4264.1	3849.8	3322.4	2685.5	2022.3
-47.5°	1930.0	1994.7	2033.8	2046.8	2033.8	1994.7	1930.0	1840.0	1725.2	1586.4	1424.4
-50°	1361.1	1379.6	1390.7	1394.4	1390.7	1379.6	1361.1	1335.4	1302.6	1262.9	1216.5
-52.5°	1179.7	1186.2	1190.1	1191.4	1190.1	1186.2	1179.7	1170.6	1159.0	1145.0	1128.6
-55°	1089.2	1102.5	1110.5	1113.2	1110.5	1102.5	1089.2	1070.7	1047.0	1018.3	984.7
-57.5°	913.0	927.0	935.5	938.3	935.5	927.0	913.0	893.4	868.4	838.0	802.4
-60°	715.1	726.3	733.0	735.3	733.0	726.3	715.1	699.5	679.5	655.2	626.7
-62.5°	540.8	549.6	554.8	556.6	554.8	549.6	540.8	528.7	513.0	494.1	471.8
-65°	390.5	397.0	400.8	402.1	400.8	397.0	390.5	381.6	370.1	356.2	339.8
-67.5°	267.3	271.8	274.6	275.5	274.6	271.8	267.3	260.9	252.7	242.8	231.1
-70°	168.8	171.7	173.5	174.1	173.5	171.7	168.8	164.7	159.4	153.0	145.4
-72.5°	97.2	98.5	99.3	99.6	99.3	98.5	97.2	95.3	92.9	90.0	86.6
-75°	59.1	59.9	60.3	60.5	60.3	59.9	59.1	58.0	56.6	54.9	52.8
-77.5°	32.9	33.2	33.4	33.5	33.4	33.2	32.9	32.4	31.7	30.9	30.0
-80°	18.4	18.5	18.6	18.6	18.6	18.5	18.4	18.2	18.0	17.7	17.4
-82.5°	12.0	12.0	12.1	12.1	12.1	12.0	12.0	11.9	11.8	11.6	11.4
-85°	7.3	7.4	7.4	7.4	7.4	7.4	7.3	7.3	7.2	7.1	7.1
-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°	7.0	6.8	6.7	6.6	6.4	6.2	6.1	5.9	5.7	5.5	5.2
82.5°	11.2	11.0	10.8	10.5	10.2	9.9	9.5	9.2	8.8	8.4	8.0
80°	17.0	16.6	16.1	15.6	15.1	14.5	13.9	13.2	12.5	11.8	11.3
77.5°	28.9	27.7	26.4	25.0	23.4	21.7	19.9	18.3	17.4	16.5	15.5
75°	50.5	47.9	45.0	41.8	38.4	34.7	32.0	29.6	27.2	24.6	21.8
72.5°	82.6	78.2	73.2	67.8	62.0	57.2	52.5	47.6	42.3	36.8	32.2
70°	136.8	127.0	116.2	104.4	95.4	88.1	80.4	72.1	63.5	56.2	49.7
67.5°	217.7	202.7	186.0	169.4	154.9	139.2	122.5	104.8	92.5	82.2	71.4
65°	321.0	299.9	276.6	255.9	233.7	209.8	184.4	161.9	141.0	119.1	97.8
62.5°	446.3	417.7	388.9	360.5	329.7	296.7	264.3	234.5	203.1	171.2	146.0
60°	594.1	557.5	522.4	484.2	442.8	399.1	360.5	319.6	276.6	240.3	202.7
57.5°	761.6	718.3	673.9	625.4	573.1	522.4	470.8	416.4	366.9	317.9	268.6
55°	946.3	897.7	842.6	782.5	719.9	658.9	594.1	529.9	467.9	403.1	347.8
52.5°	1105.7	1058.9	1007.2	951.0	882.8	807.7	729.0	655.2	577.8	505.2	432.8
50°	1180.7	1158.0	1132.9	1096.5	1031.1	961.3	879.2	789.0	699.5	613.0	527.8
47.5°	1346.4	1282.4	1212.1	1170.0	1138.5	1094.7	1015.4	931.0	830.0	726.3	630.7
45°	1822.7	1600.4	1382.7	1300.6	1212.6	1163.6	1125.6	1051.9	959.1	850.7	735.3
42.5°	3538.2	2525.1	1897.6	1614.1	1368.4	1268.4	1180.5	1138.1	1070.4	968.2	850.7
40°	5880.0	4854.5	3666.0	2381.6	1801.7	1458.7	1302.4	1189.1	1142.4	1070.4	959.1
37.5°	8039.3	7011.5	5809.6	4499.7	3036.6	1915.9	1533.3	1313.7	1189.1	1138.1	1051.9
35°	10022.3	8946.3	7792.9	6459.5	4995.1	3367.8	1954.2	1533.3	1302.4	1180.5	1125.6
32.5°	12037.0	10846.2	9565.0	8245.8	6788.5	5155.4	3367.8	1915.9	1458.7	1268.4	1163.6
30°	14263.7	12811.2	11350.6	9886.1	8398.1	6788.5	4995.1	3036.6	1801.7	1368.4	1212.6
27.5°	16986.2	14894.2	13209.9	11520.4	9886.1	8245.8	6459.5	4499.7	2381.6	1614.1	1300.6
25°	20514.2	17566.9	15173.5	13209.9	11350.6	9565.0	7792.9	5809.6	3666.0	1897.6	1382.7
22.5°	24697.9	20983.7	17566.9	14894.2	12811.2	10846.2	8946.3	7011.5	4854.5	2525.1	1600.4
20°	28742.7	24697.9	20514.2	16986.2	14263.7	12037.0	10022.3	8039.3	5880.0	3538.2	1822.7
17.5°	32515.0	28211.9	23706.0	19125.4	15847.0	13257.5	11026.9	8933.1	6805.1	4450.0	2022.3
15°	36035.5	31407.4	26646.8	21788.1	17443.7	14356.0	11920.5	9726.5	7598.4	5226.8	2685.5
12.5°	39553.8	34236.2	29249.2	24123.6	19014.2	15469.5	12772.8	10439.0	8228.9	5876.1	3322.4
10°	42711.4	36803.1	31447.8	26134.5	20814.4	16541.4	13505.9	11032.3	8752.7	6414.6	3849.8
7.5°	45684.9	39020.9	33210.3	27741.7	22247.0	17391.6	14085.8	11500.6	9165.3	6838.1	4264.1
5°	47894.0	40655.9	34502.2	28914.6	23288.9	18008.2	14505.4	11838.8	9462.9	7143.2	4562.2
2.5°	49257.1	41659.0	35291.4	29628.8	23921.7	18382.0	14759.4	12043.3	9642.7	7327.3	4741.9
0°	49718.2	41997.2	35556.9	29868.7	24134.0	18507.3	14844.5	12111.7	9702.8	7388.8	4802.0
-2.5°	49257.1	41659.0	35291.4	29628.8	23921.7	18382.0	14759.4	12043.3	9642.7	7327.3	4741.9
-5°	47894.0	40655.9	34502.2	28914.6	23288.9	18008.2	14505.4	11838.8	9462.9	7143.2	4562.2
-7.5°	45684.9	39020.9	33210.3	27741.7	22247.0	17391.6	14085.8	11500.6	9165.3	6838.1	4264.1
-10°	42711.4	36803.1	31447.8	26134.5	20814.4	16541.4	13505.9	11032.3	8752.7	6414.6	3849.8
-12.5°	39553.8	34236.2	29249.2	24123.6	19014.2	15469.5	12772.8	10439.0	8228.9	5876.1	3322.4
-15°	36035.5	31407.4	26646.8	21788.1	17443.7	14356.0	11920.5	9726.5	7598.4	5226.8	2685.5
-17.5°	32515.0	28211.9	23706.0	19125.4	15847.0	13257.5	11026.9	8933.1	6805.1	4450.0	2022.3
-20°	28742.7	24697.9	20514.2	16986.2	14263.7	12037.0	10022.3	8039.3	5880.0	3538.2	1822.7



REPORT NUMBER: P731208 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	24697.9	20983.7	17566.9	14894.2	12811.2	10846.2	8946.3	7011.5	4854.5	2525.1	1600.4
-25°	20514.2	17566.9	15173.5	13209.9	11350.6	9565.0	7792.9	5809.6	3666.0	1897.6	1382.7
-27.5°	16986.2	14894.2	13209.9	11520.4	9886.1	8245.8	6459.5	4499.7	2381.6	1614.1	1300.6
-30°	14263.7	12811.2	11350.6	9886.1	8398.1	6788.5	4995.1	3036.6	1801.7	1368.4	1212.6
-32.5°	12037.0	10846.2	9565.0	8245.8	6788.5	5155.4	3367.8	1915.9	1458.7	1268.4	1163.6
-35°	10022.3	8946.3	7792.9	6459.5	4995.1	3367.8	1954.2	1533.3	1302.4	1180.5	1125.6
-37.5°	8039.3	7011.5	5809.6	4499.7	3036.6	1915.9	1533.3	1313.7	1189.1	1138.1	1051.9
-40°	5880.0	4854.5	3666.0	2381.6	1801.7	1458.7	1302.4	1189.1	1142.4	1070.4	959.1
-42.5°	3538.2	2525.1	1897.6	1614.1	1368.4	1268.4	1180.5	1138.1	1070.4	968.2	850.7
-45°	1822.7	1600.4	1382.7	1300.6	1212.6	1163.6	1125.6	1051.9	959.1	850.7	735.3
-47.5°	1346.4	1282.4	1212.1	1170.0	1138.5	1094.7	1015.4	931.0	830.0	726.3	630.7
-50°	1180.7	1158.0	1132.9	1096.5	1031.1	961.3	879.2	789.0	699.5	613.0	527.8
-52.5°	1105.7	1058.9	1007.2	951.0	882.8	807.7	729.0	655.2	577.8	505.2	432.8
-55°	946.3	897.7	842.6	782.5	719.9	658.9	594.1	529.9	467.9	403.1	347.8
-57.5°	761.6	718.3	673.9	625.4	573.1	522.4	470.8	416.4	366.9	317.9	268.6
-60°	594.1	557.5	522.4	484.2	442.8	399.1	360.5	319.6	276.6	240.3	202.7
-62.5°	446.3	417.7	388.9	360.5	329.7	296.7	264.3	234.5	203.1	171.2	146.0
-65°	321.0	299.9	276.6	255.9	233.7	209.8	184.4	161.9	141.0	119.1	97.8
-67.5°	217.7	202.7	186.0	169.4	154.9	139.2	122.5	104.8	92.5	82.2	71.4
-70°	136.8	127.0	116.2	104.4	95.4	88.1	80.4	72.1	63.5	56.2	49.7
-72.5°	82.6	78.2	73.2	67.8	62.0	57.2	52.5	47.6	42.3	36.8	32.2
-75°	50.5	47.9	45.0	41.8	38.4	34.7	32.0	29.6	27.2	24.6	21.8
-77.5°	28.9	27.7	26.4	25.0	23.4	21.7	19.9	18.3	17.4	16.5	15.5
-80°	17.0	16.6	16.1	15.6	15.1	14.5	13.9	13.2	12.5	11.8	11.3
-82.5°	11.2	11.0	10.8	10.5	10.2	9.9	9.5	9.2	8.8	8.4	8.0
-85°	7.0	6.8	6.7	6.6	6.4	6.2	6.1	5.9	5.7	5.5	5.2
-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: P731208 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-5S-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°	5.0	4.8	4.5	4.2	4.0	3.7	3.4	3.1	2.8	2.5	2.2
82.5°	7.5	7.1	6.7	6.4	6.0	5.5	5.1	4.7	4.2	3.8	3.3
80°	10.7	10.0	9.4	8.7	8.1	7.4	6.8	6.2	5.6	5.0	4.4
77.5°	14.5	13.4	12.3	11.4	10.6	9.7	8.8	7.9	7.0	6.3	5.5
75°	19.0	17.5	16.2	14.8	13.4	12.0	10.9	9.8	8.7	7.5	6.6
72.5°	28.9	25.4	21.9	18.4	16.8	15.1	13.4	11.7	10.4	9.1	7.8
70°	42.8	35.7	30.6	26.4	22.1	18.2	16.2	14.2	12.2	10.6	9.1
67.5°	60.3	52.3	44.0	35.4	29.7	24.7	19.7	16.8	14.5	12.2	10.4
65°	85.4	72.4	59.5	50.0	40.2	31.7	26.1	20.3	16.8	14.2	11.7
62.5°	119.8	95.9	81.2	66.1	53.6	42.7	32.4	26.1	19.7	16.2	13.4
60°	166.4	136.8	106.2	86.6	69.6	54.9	42.7	31.7	24.7	18.2	15.1
57.5°	226.2	182.4	147.0	113.0	88.3	69.6	53.6	40.2	29.7	22.1	16.8
55°	290.7	240.4	191.8	150.5	113.0	86.6	66.1	50.0	35.4	26.4	18.4
52.5°	365.9	302.6	245.2	191.8	147.0	106.2	81.2	59.5	44.0	30.6	21.9
50°	447.7	371.9	302.6	240.4	182.4	136.8	95.9	72.4	52.3	35.7	25.4
47.5°	535.4	447.7	365.9	290.7	226.2	166.4	119.8	85.4	60.3	42.8	28.9
45°	630.7	527.8	432.8	347.8	268.6	202.7	146.0	97.8	71.4	49.7	32.2
42.5°	726.3	613.0	505.2	403.1	317.9	240.3	171.2	119.1	82.2	56.2	36.8
40°	830.0	699.5	577.8	467.9	366.9	276.6	203.1	141.0	92.5	63.5	42.3
37.5°	931.0	789.0	655.2	529.9	416.4	319.6	234.5	161.9	104.8	72.1	47.6
35°	1015.4	879.2	729.0	594.1	470.8	360.5	264.3	184.4	122.5	80.4	52.5
32.5°	1094.7	961.3	807.7	658.9	522.4	399.1	296.7	209.8	139.2	88.1	57.2
30°	1138.5	1031.1	882.8	719.9	573.1	442.8	329.7	233.7	154.9	95.4	62.0
27.5°	1170.0	1096.5	951.0	782.5	625.4	484.2	360.5	255.9	169.4	104.4	67.8
25°	1212.1	1132.9	1007.2	842.6	673.9	522.4	388.9	276.6	186.0	116.2	73.2
22.5°	1282.4	1158.0	1058.9	897.7	718.3	557.5	417.7	299.9	202.7	127.0	78.2
20°	1346.4	1180.7	1105.7	946.3	761.6	594.1	446.3	321.0	217.7	136.8	82.6
17.5°	1424.4	1216.5	1128.6	984.7	802.4	626.7	471.8	339.8	231.1	145.4	86.6
15°	1586.4	1262.9	1145.0	1018.3	838.0	655.2	494.1	356.2	242.8	153.0	90.0
12.5°	1725.2	1302.6	1159.0	1047.0	868.4	679.5	513.0	370.1	252.7	159.4	92.9
10°	1840.0	1335.4	1170.6	1070.7	893.4	699.5	528.7	381.6	260.9	164.7	95.3
7.5°	1930.0	1361.1	1179.7	1089.2	913.0	715.1	540.8	390.5	267.3	168.8	97.2
5°	1994.7	1379.6	1186.2	1102.5	927.0	726.3	549.6	397.0	271.8	171.7	98.5
2.5°	2033.8	1390.7	1190.1	1110.5	935.5	733.0	554.8	400.8	274.6	173.5	99.3
0°	2046.8	1394.4	1191.4	1113.2	938.3	735.3	556.6	402.1	275.5	174.1	99.6
-2.5°	2033.8	1390.7	1190.1	1110.5	935.5	733.0	554.8	400.8	274.6	173.5	99.3
-5°	1994.7	1379.6	1186.2	1102.5	927.0	726.3	549.6	397.0	271.8	171.7	98.5
-7.5°	1930.0	1361.1	1179.7	1089.2	913.0	715.1	540.8	390.5	267.3	168.8	97.2
-10°	1840.0	1335.4	1170.6	1070.7	893.4	699.5	528.7	381.6	260.9	164.7	95.3
-12.5°	1725.2	1302.6	1159.0	1047.0	868.4	679.5	513.0	370.1	252.7	159.4	92.9
-15°	1586.4	1262.9	1145.0	1018.3	838.0	655.2	494.1	356.2	242.8	153.0	90.0
-17.5°	1424.4	1216.5	1128.6	984.7	802.4	626.7	471.8	339.8	231.1	145.4	86.6
-20°	1346.4	1180.7	1105.7	946.3	761.6	594.1	446.3	321.0	217.7	136.8	82.6



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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°	1282.4	1158.0	1058.9	897.7	718.3	557.5	417.7	299.9	202.7	127.0	78.2
-25°	1212.1	1132.9	1007.2	842.6	673.9	522.4	388.9	276.6	186.0	116.2	73.2
-27.5°	1170.0	1096.5	951.0	782.5	625.4	484.2	360.5	255.9	169.4	104.4	67.8
-30°	1138.5	1031.1	882.8	719.9	573.1	442.8	329.7	233.7	154.9	95.4	62.0
-32.5°	1094.7	961.3	807.7	658.9	522.4	399.1	296.7	209.8	139.2	88.1	57.2
-35°	1015.4	879.2	729.0	594.1	470.8	360.5	264.3	184.4	122.5	80.4	52.5
-37.5°	931.0	789.0	655.2	529.9	416.4	319.6	234.5	161.9	104.8	72.1	47.6
-40°	830.0	699.5	577.8	467.9	366.9	276.6	203.1	141.0	92.5	63.5	42.3
-42.5°	726.3	613.0	505.2	403.1	317.9	240.3	171.2	119.1	82.2	56.2	36.8
-45°	630.7	527.8	432.8	347.8	268.6	202.7	146.0	97.8	71.4	49.7	32.2
-47.5°	535.4	447.7	365.9	290.7	226.2	166.4	119.8	85.4	60.3	42.8	28.9
-50°	447.7	371.9	302.6	240.4	182.4	136.8	95.9	72.4	52.3	35.7	25.4
-52.5°	365.9	302.6	245.2	191.8	147.0	106.2	81.2	59.5	44.0	30.6	21.9
-55°	290.7	240.4	191.8	150.5	113.0	86.6	66.1	50.0	35.4	26.4	18.4
-57.5°	226.2	182.4	147.0	113.0	88.3	69.6	53.6	40.2	29.7	22.1	16.8
-60°	166.4	136.8	106.2	86.6	69.6	54.9	42.7	31.7	24.7	18.2	15.1
-62.5°	119.8	95.9	81.2	66.1	53.6	42.7	32.4	26.1	19.7	16.2	13.4
-65°	85.4	72.4	59.5	50.0	40.2	31.7	26.1	20.3	16.8	14.2	11.7
-67.5°	60.3	52.3	44.0	35.4	29.7	24.7	19.7	16.8	14.5	12.2	10.4
-70°	42.8	35.7	30.6	26.4	22.1	18.2	16.2	14.2	12.2	10.6	9.1
-72.5°	28.9	25.4	21.9	18.4	16.8	15.1	13.4	11.7	10.4	9.1	7.8
-75°	19.0	17.5	16.2	14.8	13.4	12.0	10.9	9.8	8.7	7.5	6.6
-77.5°	14.5	13.4	12.3	11.4	10.6	9.7	8.8	7.9	7.0	6.3	5.5
-80°	10.7	10.0	9.4	8.7	8.1	7.4	6.8	6.2	5.6	5.0	4.4
-82.5°	7.5	7.1	6.7	6.4	6.0	5.5	5.1	4.7	4.2	3.8	3.3
-85°	5.0	4.8	4.5	4.2	4.0	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°	4.8	4.0	3.2	2.4	1.6	0.8	0.0
75°	5.7	4.8	3.8	2.9	1.9	1.0	0.0
72.5°	6.6	5.5	4.4	3.3	2.2	1.1	0.0
70°	7.5	6.3	5.0	3.8	2.5	1.3	0.0
67.5°	8.7	7.0	5.6	4.2	2.8	1.4	0.0
65°	9.8	7.9	6.2	4.7	3.1	1.6	0.0
62.5°	10.9	8.8	6.8	5.1	3.4	1.7	0.0
60°	12.0	9.7	7.4	5.5	3.7	1.8	0.0
57.5°	13.4	10.6	8.1	6.0	4.0	2.0	0.0
55°	14.8	11.4	8.7	6.4	4.2	2.1	0.0
52.5°	16.2	12.3	9.4	6.7	4.5	2.3	0.0
50°	17.5	13.4	10.0	7.1	4.8	2.4	0.0
47.5°	19.0	14.5	10.7	7.5	5.0	2.5	0.0
45°	21.8	15.5	11.3	8.0	5.2	2.6	0.0
42.5°	24.6	16.5	11.8	8.4	5.5	2.7	0.0
40°	27.2	17.4	12.5	8.8	5.7	2.8	0.0
37.5°	29.6	18.3	13.2	9.2	5.9	2.9	0.0
35°	32.0	19.9	13.9	9.5	6.1	3.0	0.0
32.5°	34.7	21.7	14.5	9.9	6.2	3.1	0.0
30°	38.4	23.4	15.1	10.2	6.4	3.2	0.0
27.5°	41.8	25.0	15.6	10.5	6.6	3.3	0.0
25°	45.0	26.4	16.1	10.8	6.7	3.4	0.0
22.5°	47.9	27.7	16.6	11.0	6.8	3.4	0.0
20°	50.5	28.9	17.0	11.2	7.0	3.5	0.0
17.5°	52.8	30.0	17.4	11.4	7.1	3.5	0.0
15°	54.9	30.9	17.7	11.6	7.1	3.6	0.0
12.5°	56.6	31.7	18.0	11.8	7.2	3.6	0.0
10°	58.0	32.4	18.2	11.9	7.3	3.6	0.0
7.5°	59.1	32.9	18.4	12.0	7.3	3.7	0.0
5°	59.9	33.2	18.5	12.0	7.4	3.7	0.0
2.5°	60.3	33.4	18.6	12.1	7.4	3.7	0.0
0°	60.5	33.5	18.6	12.1	7.4	3.7	0.0
-2.5°	60.3	33.4	18.6	12.1	7.4	3.7	0.0
-5°	59.9	33.2	18.5	12.0	7.4	3.7	0.0
-7.5°	59.1	32.9	18.4	12.0	7.3	3.7	0.0
-10°	58.0	32.4	18.2	11.9	7.3	3.6	0.0
-12.5°	56.6	31.7	18.0	11.8	7.2	3.6	0.0
-15°	54.9	30.9	17.7	11.6	7.1	3.6	0.0
-17.5°	52.8	30.0	17.4	11.4	7.1	3.5	0.0
-20°	50.5	28.9	17.0	11.2	7.0	3.5	0.0



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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	47.9	27.7	16.6	11.0	6.8	3.4	0.0
-25°	45.0	26.4	16.1	10.8	6.7	3.4	0.0
-27.5°	41.8	25.0	15.6	10.5	6.6	3.3	0.0
-30°	38.4	23.4	15.1	10.2	6.4	3.2	0.0
-32.5°	34.7	21.7	14.5	9.9	6.2	3.1	0.0
-35°	32.0	19.9	13.9	9.5	6.1	3.0	0.0
-37.5°	29.6	18.3	13.2	9.2	5.9	2.9	0.0
-40°	27.2	17.4	12.5	8.8	5.7	2.8	0.0
-42.5°	24.6	16.5	11.8	8.4	5.5	2.7	0.0
-45°	21.8	15.5	11.3	8.0	5.2	2.6	0.0
-47.5°	19.0	14.5	10.7	7.5	5.0	2.5	0.0
-50°	17.5	13.4	10.0	7.1	4.8	2.4	0.0
-52.5°	16.2	12.3	9.4	6.7	4.5	2.3	0.0
-55°	14.8	11.4	8.7	6.4	4.2	2.1	0.0
-57.5°	13.4	10.6	8.1	6.0	4.0	2.0	0.0
-60°	12.0	9.7	7.4	5.5	3.7	1.8	0.0
-62.5°	10.9	8.8	6.8	5.1	3.4	1.7	0.0
-65°	9.8	7.9	6.2	4.7	3.1	1.6	0.0
-67.5°	8.7	7.0	5.6	4.2	2.8	1.4	0.0
-70°	7.5	6.3	5.0	3.8	2.5	1.3	0.0
-72.5°	6.6	5.5	4.4	3.3	2.2	1.1	0.0
-75°	5.7	4.8	3.8	2.9	1.9	1.0	0.0
-77.5°	4.8	4.0	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

