

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: P731202 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-70-5S-HEG**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731202 (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-40-70-5S-HEG
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 5S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

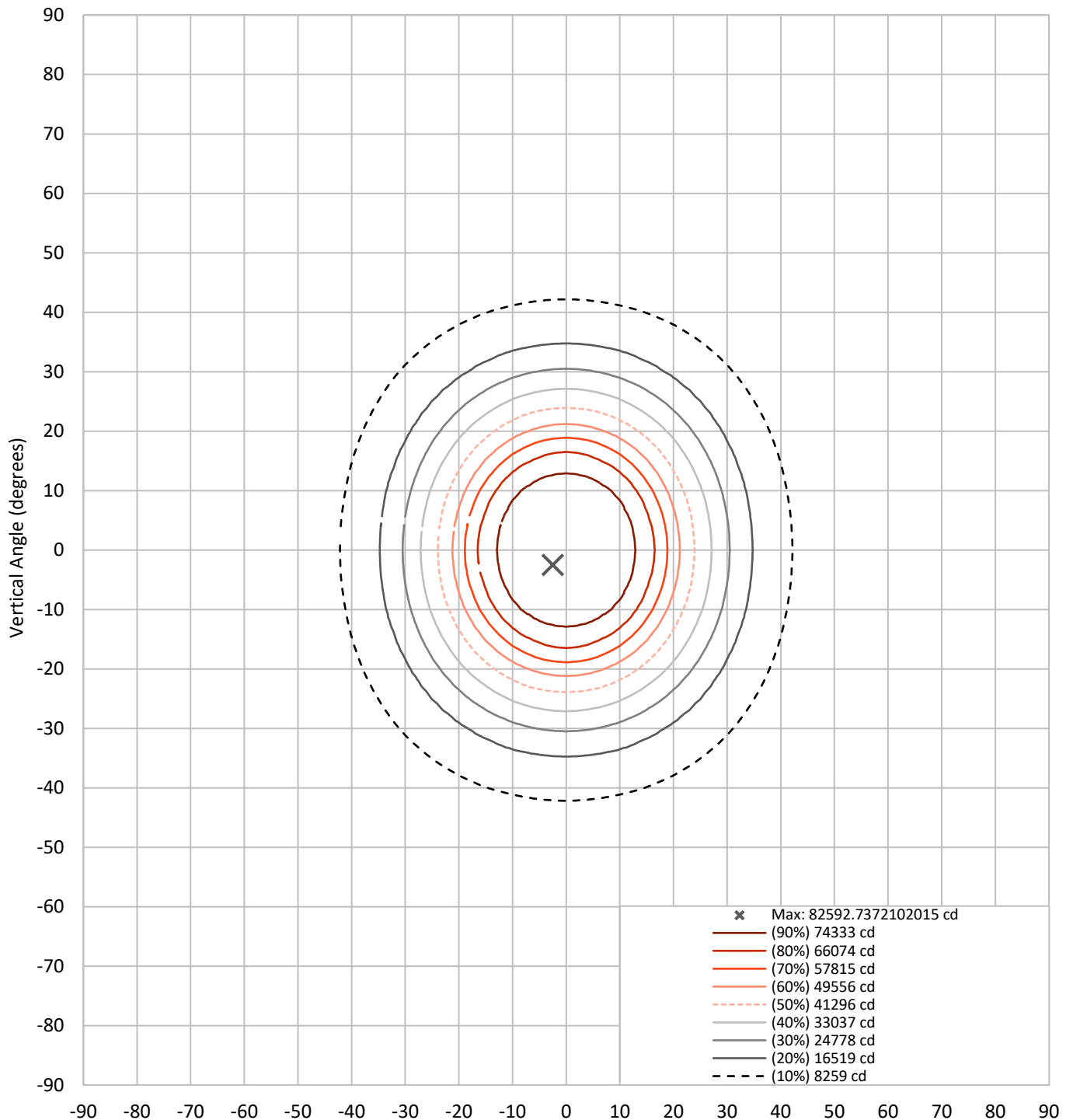
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	60370.3 lumens	Max Intensity:	82592.7 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x -2.5°V
Efficacy:	174.6 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:	33867.7 lumens	Field Lumens:	56250.2 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





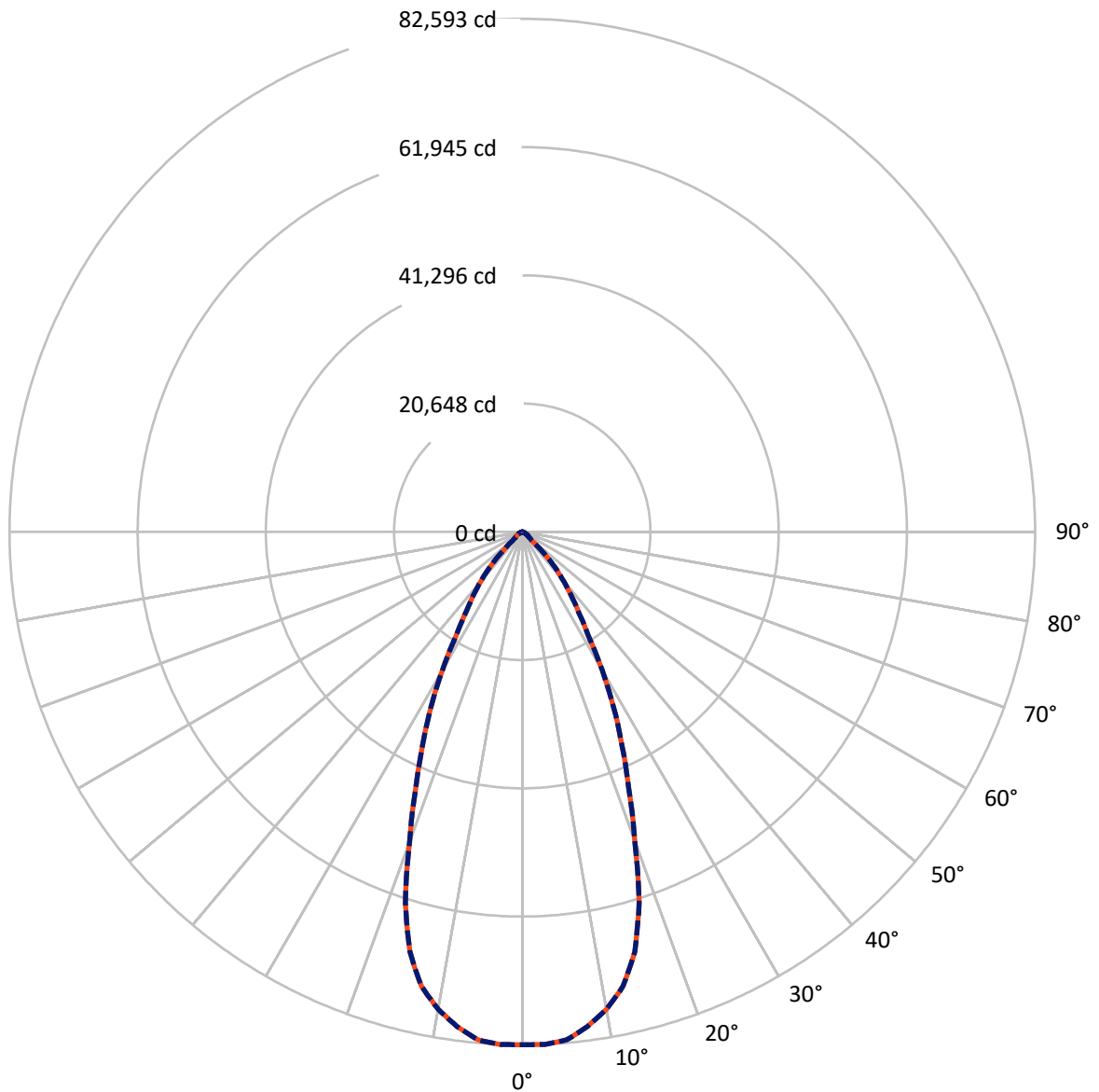
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Lumen Table

90																
80	0.1	0.6		1.9		4.1		5.2		4.1		1.9		0.6		0.1
70																
60	0.3	0.3	1.0	2.6	5.4	8.7	11.8	13.5	13.5	11.8	8.7	5.4	2.6	1.0	0.3	0.3
50		0.8	3.1	8.3	16.2	24.8	31.2	34.7	34.7	31.2	24.8	16.2	8.3	3.1	0.8	
40	0.6	1.6	6.8	17.3	29.8	53.7	109.4	154.0	154.0	109.4	53.7	29.8	17.3	6.8	1.6	0.6
30		2.9	11.5	25.8	74.9	226.8	382.9	490.6	490.6	382.9	226.8	74.9	25.8	11.5	2.9	
20	1.2	4.2	15.9	42.4	206.1	468.9	839.1	1126.2	1126.2	839.1	468.9	206.1	42.4	15.9	4.2	1.2
10		5.4	18.8	82.0	326.9	789.7	1467.4	1999.2	1999.2	1467.4	789.7	326.9	82.0	18.8	5.4	
0	1.4	6.0	20.2	112.1	406.7	1028.9	1941.0	2422.9	2422.9	1941.0	1028.9	406.7	112.1	20.2	6.0	1.4
-10		6.0	20.2	112.1	406.7	1028.9	1941.0	2422.9	2422.9	1941.0	1028.9	406.7	112.1	20.2	6.0	
-20	1.2	5.4	18.8	82.0	326.9	789.7	1467.4	1999.2	1999.2	1467.4	789.7	326.9	82.0	18.8	5.4	1.2
-30		4.2	15.9	42.4	206.1	468.9	839.1	1126.2	1126.2	839.1	468.9	206.1	42.4	15.9	4.2	
-40	0.6	2.9	11.5	25.8	74.9	226.8	382.9	490.6	490.6	382.9	226.8	74.9	25.8	11.5	2.9	0.6
-50		1.6	6.8	17.3	29.8	53.7	109.4	154.0	154.0	109.4	53.7	29.8	17.3	6.8	1.6	
-60	0.3	0.8	3.1	8.3	16.2	24.8	31.2	34.7	34.7	31.2	24.8	16.2	8.3	3.1	0.8	0.3
-70		0.3	1.0	2.6	5.4	8.7	11.8	13.5	13.5	11.8	8.7	5.4	2.6	1.0	0.3	
-80																
-90	0.1	0.6		1.9		4.1		5.2		4.1		1.9		0.6		0.1

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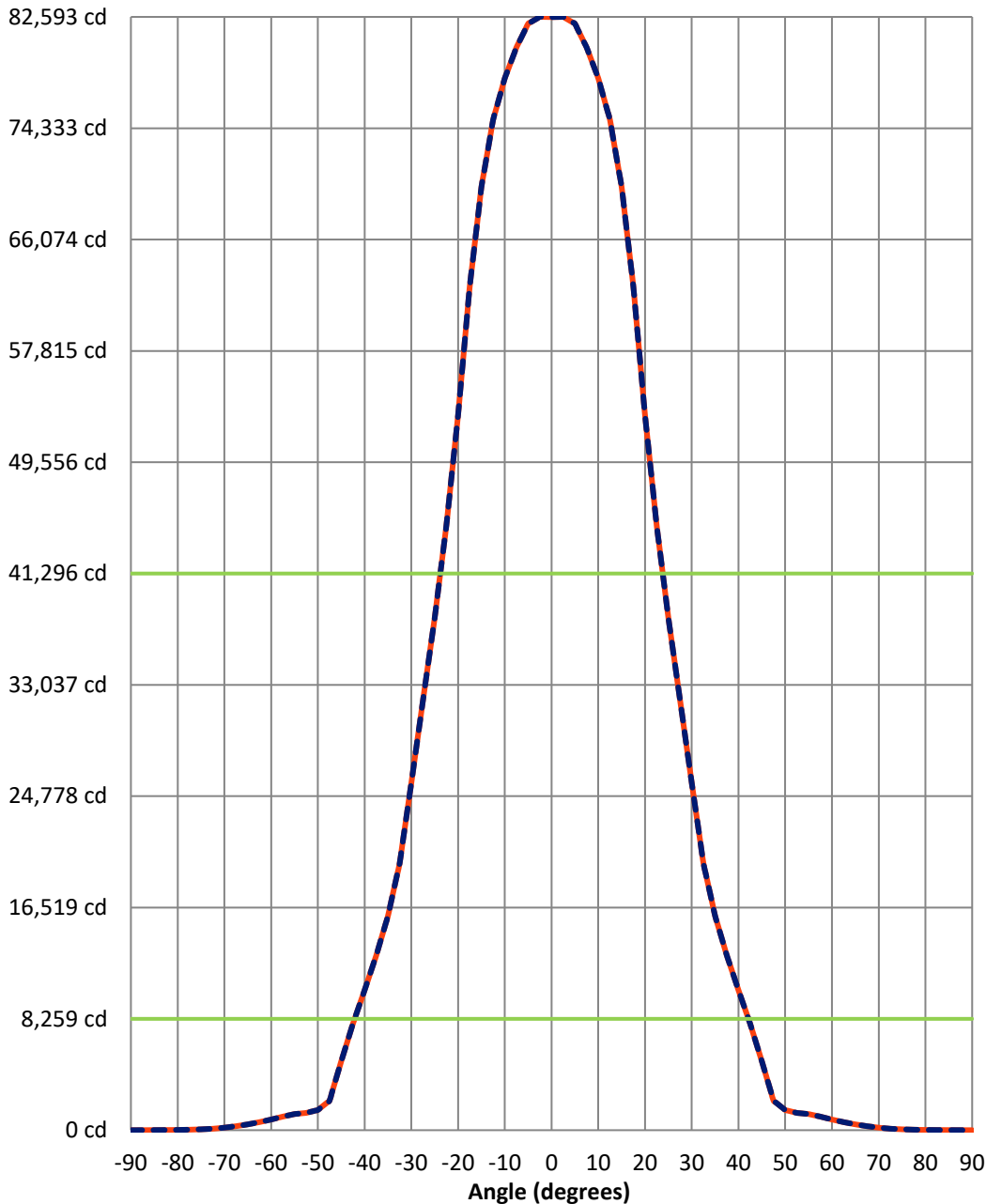
Luminous Intensity Polar Plot



— 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: 33867.7
 Efficiency: 56.1%

Field:
 H Angle: 84.3°
 V Angle: 84.3°
 Lumens: 56250.2
 Efficiency: 93.2%

Spill:
 Lumens: 4120.1
 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	0.7	0.9	1.0	1.2	1.4	1.5	1.7
85°	0.0	0.3	0.7	1.0	1.4	1.7	2.1	2.4	2.7	3.1	3.4
82.5°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.6	5.1
80°	0.0	0.7	1.4	2.1	2.8	3.4	4.1	4.8	5.4	6.1	6.7
77.5°	0.0	0.9	1.7	2.6	3.4	4.3	5.1	6.0	6.8	7.6	8.5
75°	0.0	1.0	2.1	3.1	4.1	5.1	6.1	7.1	8.2	9.4	10.6
72.5°	0.0	1.2	2.4	3.6	4.8	6.0	7.1	8.4	9.8	11.2	12.6
70°	0.0	1.4	2.7	4.1	5.4	6.8	8.2	9.8	11.4	13.1	15.3
67.5°	0.0	1.5	3.1	4.6	6.1	7.6	9.4	11.2	13.1	15.6	18.1
65°	0.0	1.7	3.4	5.1	6.7	8.5	10.6	12.6	15.3	18.1	21.9
62.5°	0.0	1.8	3.7	5.5	7.4	9.5	11.7	14.3	17.4	21.1	28.1
60°	0.0	2.0	4.0	6.0	8.0	10.4	12.9	16.2	19.6	26.6	34.2
57.5°	0.0	2.1	4.3	6.4	8.7	11.4	14.4	18.0	23.8	32.0	43.4
55°	0.0	2.3	4.6	6.9	9.4	12.3	15.9	19.8	28.5	38.2	53.9
52.5°	0.0	2.4	4.9	7.3	10.1	13.2	17.4	23.5	33.0	47.4	64.1
50°	0.0	2.6	5.1	7.7	10.8	14.4	18.8	27.4	38.4	56.4	78.0
47.5°	0.0	2.7	5.4	8.1	11.5	15.5	20.5	31.1	46.1	65.0	92.0
45°	0.0	2.8	5.7	8.6	12.1	16.6	23.5	34.7	53.5	77.0	105.4
42.5°	0.0	2.9	5.9	9.0	12.7	17.7	26.4	39.7	60.6	88.6	128.3
40°	0.0	3.1	6.1	9.5	13.4	18.7	29.2	45.6	68.4	99.7	151.8
37.5°	0.0	3.2	6.3	9.9	14.2	19.7	31.9	51.3	77.7	112.9	174.3
35°	0.0	3.3	6.6	10.3	14.9	21.4	34.4	56.6	86.6	131.9	198.5
32.5°	0.0	3.4	6.7	10.6	15.6	23.3	37.4	61.6	94.9	149.9	225.9
30°	0.0	3.5	6.9	11.0	16.2	25.2	41.4	66.8	102.7	166.7	251.6
27.5°	0.0	3.5	7.1	11.3	16.8	26.9	45.1	73.1	112.4	182.4	275.5
25°	0.0	3.6	7.2	11.6	17.4	28.5	48.5	78.9	125.2	200.2	297.8
22.5°	0.0	3.7	7.4	11.9	17.8	29.9	51.6	84.2	136.8	218.2	323.0
20°	0.0	3.8	7.5	12.1	18.3	31.2	54.4	89.0	147.3	234.4	345.7
17.5°	0.0	3.8	7.6	12.3	18.7	32.3	56.9	93.3	156.6	248.9	365.9
15°	0.0	3.9	7.7	12.5	19.0	33.3	59.1	97.0	164.7	261.4	383.5
12.5°	0.0	3.9	7.8	12.6	19.3	34.2	61.0	100.1	171.6	272.2	398.6
10°	0.0	3.9	7.9	12.8	19.6	34.9	62.5	102.7	177.3	281.0	410.9
7.5°	0.0	4.0	7.9	12.9	19.8	35.4	63.7	104.7	181.7	287.8	420.5
5°	0.0	4.0	8.0	12.9	19.9	35.8	64.5	106.1	184.9	292.8	427.5
2.5°	0.0	4.0	8.0	13.0	20.0	36.0	65.0	107.0	186.8	295.7	431.6
0°	0.0	4.0	8.0	13.0	20.0	36.1	65.2	107.3	187.4	296.7	433.0
-2.5°	0.0	4.0	8.0	13.0	20.0	36.1	65.2	107.3	187.4	296.7	433.0
-5°	0.0	4.0	8.0	12.9	19.9	35.8	64.5	106.1	184.9	292.8	427.5
-7.5°	0.0	4.0	7.9	12.9	19.8	35.4	63.7	104.7	181.7	287.8	420.5
-10°	0.0	3.9	7.9	12.8	19.6	34.9	62.5	102.7	177.3	281.0	410.9
-12.5°	0.0	3.9	7.8	12.6	19.3	34.2	61.0	100.1	171.6	272.2	398.6
-15°	0.0	3.9	7.7	12.5	19.0	33.3	59.1	97.0	164.7	261.4	383.5
-17.5°	0.0	3.8	7.6	12.3	18.7	32.3	56.9	93.3	156.6	248.9	365.9
-20°	0.0	3.8	7.5	12.1	18.3	31.2	54.4	89.0	147.3	234.4	345.7



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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	3.7	7.4	11.9	17.8	29.9	51.6	84.2	136.8	218.2	323.0
-25°	0.0	3.6	7.2	11.6	17.4	28.5	48.5	78.9	125.2	200.2	297.8
-27.5°	0.0	3.5	7.1	11.3	16.8	26.9	45.1	73.1	112.4	182.4	275.5
-30°	0.0	3.5	6.9	11.0	16.2	25.2	41.4	66.8	102.7	166.7	251.6
-32.5°	0.0	3.4	6.7	10.6	15.6	23.3	37.4	61.6	94.9	149.9	225.9
-35°	0.0	3.3	6.6	10.3	14.9	21.4	34.4	56.6	86.6	131.9	198.5
-37.5°	0.0	3.2	6.3	9.9	14.2	19.7	31.9	51.3	77.7	112.9	174.3
-40°	0.0	3.1	6.1	9.5	13.4	18.7	29.2	45.6	68.4	99.7	151.8
-42.5°	0.0	2.9	5.9	9.0	12.7	17.7	26.4	39.7	60.6	88.6	128.3
-45°	0.0	2.8	5.7	8.6	12.1	16.6	23.5	34.7	53.5	77.0	105.4
-47.5°	0.0	2.7	5.4	8.1	11.5	15.5	20.5	31.1	46.1	65.0	92.0
-50°	0.0	2.6	5.1	7.7	10.8	14.4	18.8	27.4	38.4	56.4	78.0
-52.5°	0.0	2.4	4.9	7.3	10.1	13.2	17.4	23.5	33.0	47.4	64.1
-55°	0.0	2.3	4.6	6.9	9.4	12.3	15.9	19.8	28.5	38.2	53.9
-57.5°	0.0	2.1	4.3	6.4	8.7	11.4	14.4	18.0	23.8	32.0	43.4
-60°	0.0	2.0	4.0	6.0	8.0	10.4	12.9	16.2	19.6	26.6	34.2
-62.5°	0.0	1.8	3.7	5.5	7.4	9.5	11.7	14.3	17.4	21.1	28.1
-65°	0.0	1.7	3.4	5.1	6.7	8.5	10.6	12.6	15.3	18.1	21.9
-67.5°	0.0	1.5	3.1	4.6	6.1	7.6	9.4	11.2	13.1	15.6	18.1
-70°	0.0	1.4	2.7	4.1	5.4	6.8	8.2	9.8	11.4	13.1	15.3
-72.5°	0.0	1.2	2.4	3.6	4.8	6.0	7.1	8.4	9.8	11.2	12.6
-75°	0.0	1.0	2.1	3.1	4.1	5.1	6.1	7.1	8.2	9.4	10.6
-77.5°	0.0	0.9	1.7	2.6	3.4	4.3	5.1	6.0	6.8	7.6	8.5
-80°	0.0	0.7	1.4	2.1	2.8	3.4	4.1	4.8	5.4	6.1	6.7
-82.5°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.6	5.1
-85°	0.0	0.3	0.7	1.0	1.4	1.7	2.1	2.4	2.7	3.1	3.4
-87.5°	0.0	0.2	0.3	0.5	0.7	0.9	1.0	1.2	1.4	1.5	1.7
-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°	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.8	2.9	3.1	3.2
85°	3.7	4.0	4.3	4.6	4.9	5.1	5.4	5.7	5.9	6.1	6.3
82.5°	5.5	6.0	6.4	6.9	7.3	7.7	8.1	8.6	9.0	9.5	9.9
80°	7.4	8.0	8.7	9.4	10.1	10.8	11.5	12.1	12.7	13.4	14.2
77.5°	9.5	10.4	11.4	12.3	13.2	14.4	15.5	16.6	17.7	18.7	19.7
75°	11.7	12.9	14.4	15.9	17.4	18.8	20.5	23.5	26.4	29.2	31.9
72.5°	14.3	16.2	18.0	19.8	23.5	27.4	31.1	34.7	39.7	45.6	51.3
70°	17.4	19.6	23.8	28.5	33.0	38.4	46.1	53.5	60.6	68.4	77.7
67.5°	21.1	26.6	32.0	38.2	47.4	56.4	65.0	77.0	88.6	99.7	112.9
65°	28.1	34.2	43.4	53.9	64.1	78.0	92.0	105.4	128.3	151.8	174.3
62.5°	34.9	46.0	57.8	71.2	87.5	103.4	129.0	157.2	184.3	218.7	252.5
60°	46.0	59.1	75.0	93.3	114.4	147.3	179.2	218.2	258.7	297.8	344.2
57.5°	57.8	75.0	95.2	121.7	158.3	196.3	243.5	289.2	342.3	395.1	448.4
55°	71.2	93.3	121.7	162.0	206.5	258.9	313.0	374.5	434.1	503.9	570.7
52.5°	87.5	114.4	158.3	206.5	264.0	325.9	394.0	466.1	544.0	622.3	705.6
50°	103.4	147.3	196.3	258.9	325.9	400.5	482.1	568.4	660.1	753.3	849.7
47.5°	129.0	179.2	243.5	313.0	394.0	482.1	576.5	679.2	782.2	893.9	1002.6
45°	157.2	218.2	289.2	374.5	466.1	568.4	679.2	791.9	916.2	1032.8	1132.8
42.5°	184.3	258.7	342.3	434.1	544.0	660.1	782.2	916.2	1042.6	1152.6	1225.7
40°	218.7	297.8	395.1	503.9	622.3	753.3	893.9	1032.8	1152.6	1230.2	1280.5
37.5°	252.5	344.2	448.4	570.7	705.6	849.7	1002.6	1132.8	1225.7	1280.5	1414.7
35°	284.7	388.2	507.0	639.8	785.1	946.8	1093.4	1212.1	1271.3	1402.4	1651.1
32.5°	319.6	429.8	562.5	709.6	869.9	1035.1	1178.9	1253.0	1365.9	1570.7	2063.2
30°	355.1	476.9	617.2	775.3	950.7	1110.3	1226.0	1305.8	1473.5	1940.2	3270.1
27.5°	388.2	521.4	673.5	842.8	1024.1	1180.8	1260.0	1400.5	1738.1	2564.7	4845.6
25°	418.8	562.5	725.7	907.4	1084.7	1220.1	1305.3	1488.9	2043.5	3947.9	6256.3
22.5°	449.8	600.4	773.6	966.7	1140.3	1247.0	1381.0	1723.4	2719.3	5227.7	7550.5
20°	480.6	639.8	820.3	1019.0	1190.8	1271.5	1449.8	1962.8	3810.3	6332.0	8657.3
17.5°	508.1	674.9	864.1	1060.4	1215.4	1310.0	1533.8	2177.8	4792.1	7328.2	9619.7
15°	532.1	705.6	902.4	1096.6	1233.0	1360.0	1708.3	2892.0	5628.6	8182.5	10474.1
12.5°	552.5	731.8	935.1	1127.5	1248.1	1402.7	1857.8	3577.9	6327.8	8861.4	11241.4
10°	569.3	753.3	962.1	1153.0	1260.6	1438.0	1981.4	4145.8	6907.7	9425.5	11880.3
7.5°	582.4	770.1	983.2	1173.0	1270.4	1465.7	2078.4	4591.9	7363.8	9869.8	12384.6
5°	591.8	782.2	998.3	1187.3	1277.4	1485.5	2148.1	4912.9	7692.3	10190.3	12748.8
2.5°	597.5	789.5	1007.4	1195.9	1281.6	1497.5	2190.2	5106.5	7890.5	10383.9	12969.0
0°	599.4	791.9	1010.4	1198.8	1283.0	1501.5	2204.2	5171.2	7956.8	10448.6	13042.7
-2.5°	597.5	789.5	1007.4	1195.9	1281.6	1497.5	2190.2	5106.5	7890.5	10383.9	12969.0
-5°	591.8	782.2	998.3	1187.3	1277.4	1485.5	2148.1	4912.9	7692.3	10190.3	12748.8
-7.5°	582.4	770.1	983.2	1173.0	1270.4	1465.7	2078.4	4591.9	7363.8	9869.8	12384.6
-10°	569.3	753.3	962.1	1153.0	1260.6	1438.0	1981.4	4145.8	6907.7	9425.5	11880.3
-12.5°	552.5	731.8	935.1	1127.5	1248.1	1402.7	1857.8	3577.9	6327.8	8861.4	11241.4
-15°	532.1	705.6	902.4	1096.6	1233.0	1360.0	1708.3	2892.0	5628.6	8182.5	10474.1
-17.5°	508.1	674.9	864.1	1060.4	1215.4	1310.0	1533.8	2177.8	4792.1	7328.2	9619.7
-20°	480.6	639.8	820.3	1019.0	1190.8	1271.5	1449.8	1962.8	3810.3	6332.0	8657.3



REPORT NUMBER: P731202 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	449.8	600.4	773.6	966.7	1140.3	1247.0	1381.0	1723.4	2719.3	5227.7	7550.5
-25°	418.8	562.5	725.7	907.4	1084.7	1220.1	1305.3	1488.9	2043.5	3947.9	6256.3
-27.5°	388.2	521.4	673.5	842.8	1024.1	1180.8	1260.0	1400.5	1738.1	2564.7	4845.6
-30°	355.1	476.9	617.2	775.3	950.7	1110.3	1226.0	1305.8	1473.5	1940.2	3270.1
-32.5°	319.6	429.8	562.5	709.6	869.9	1035.1	1178.9	1253.0	1365.9	1570.7	2063.2
-35°	284.7	388.2	507.0	639.8	785.1	946.8	1093.4	1212.1	1271.3	1402.4	1651.1
-37.5°	252.5	344.2	448.4	570.7	705.6	849.7	1002.6	1132.8	1225.7	1280.5	1414.7
-40°	218.7	297.8	395.1	503.9	622.3	753.3	893.9	1032.8	1152.6	1230.2	1280.5
-42.5°	184.3	258.7	342.3	434.1	544.0	660.1	782.2	916.2	1042.6	1152.6	1225.7
-45°	157.2	218.2	289.2	374.5	466.1	568.4	679.2	791.9	916.2	1032.8	1132.8
-47.5°	129.0	179.2	243.5	313.0	394.0	482.1	576.5	679.2	782.2	893.9	1002.6
-50°	103.4	147.3	196.3	258.9	325.9	400.5	482.1	568.4	660.1	753.3	849.7
-52.5°	87.5	114.4	158.3	206.5	264.0	325.9	394.0	466.1	544.0	622.3	705.6
-55°	71.2	93.3	121.7	162.0	206.5	258.9	313.0	374.5	434.1	503.9	570.7
-57.5°	57.8	75.0	95.2	121.7	158.3	196.3	243.5	289.2	342.3	395.1	448.4
-60°	46.0	59.1	75.0	93.3	114.4	147.3	179.2	218.2	258.7	297.8	344.2
-62.5°	34.9	46.0	57.8	71.2	87.5	103.4	129.0	157.2	184.3	218.7	252.5
-65°	28.1	34.2	43.4	53.9	64.1	78.0	92.0	105.4	128.3	151.8	174.3
-67.5°	21.1	26.6	32.0	38.2	47.4	56.4	65.0	77.0	88.6	99.7	112.9
-70°	17.4	19.6	23.8	28.5	33.0	38.4	46.1	53.5	60.6	68.4	77.7
-72.5°	14.3	16.2	18.0	19.8	23.5	27.4	31.1	34.7	39.7	45.6	51.3
-75°	11.7	12.9	14.4	15.9	17.4	18.8	20.5	23.5	26.4	29.2	31.9
-77.5°	9.5	10.4	11.4	12.3	13.2	14.4	15.5	16.6	17.7	18.7	19.7
-80°	7.4	8.0	8.7	9.4	10.1	10.8	11.5	12.1	12.7	13.4	14.2
-82.5°	5.5	6.0	6.4	6.9	7.3	7.7	8.1	8.6	9.0	9.5	9.9
-85°	3.7	4.0	4.3	4.6	4.9	5.1	5.4	5.7	5.9	6.1	6.3
-87.5°	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.8	2.9	3.1	3.2
-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: P731202 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	3.4	3.5	3.5	3.6	3.7	3.8	3.8	3.9	3.9	3.9
85°	6.6	6.7	6.9	7.1	7.2	7.4	7.5	7.6	7.7	7.8	7.9
82.5°	10.3	10.6	11.0	11.3	11.6	11.9	12.1	12.3	12.5	12.6	12.8
80°	14.9	15.6	16.2	16.8	17.4	17.8	18.3	18.7	19.0	19.3	19.6
77.5°	21.4	23.3	25.2	26.9	28.5	29.9	31.2	32.3	33.3	34.2	34.9
75°	34.4	37.4	41.4	45.1	48.5	51.6	54.4	56.9	59.1	61.0	62.5
72.5°	56.6	61.6	66.8	73.1	78.9	84.2	89.0	93.3	97.0	100.1	102.7
70°	86.6	94.9	102.7	112.4	125.2	136.8	147.3	156.6	164.7	171.6	177.3
67.5°	131.9	149.9	166.7	182.4	200.2	218.2	234.4	248.9	261.4	272.2	281.0
65°	198.5	225.9	251.6	275.5	297.8	323.0	345.7	365.9	383.5	398.6	410.9
62.5°	284.7	319.6	355.1	388.2	418.8	449.8	480.6	508.1	532.1	552.5	569.3
60°	388.2	429.8	476.9	521.4	562.5	600.4	639.8	674.9	705.6	731.8	753.3
57.5°	507.0	562.5	617.2	673.5	725.7	773.6	820.3	864.1	902.4	935.1	962.1
55°	639.8	709.6	775.3	842.8	907.4	966.7	1019.0	1060.4	1096.6	1127.5	1153.0
52.5°	785.1	869.9	950.7	1024.1	1084.7	1140.3	1190.8	1215.4	1233.0	1248.1	1260.6
50°	946.8	1035.1	1110.3	1180.8	1220.1	1247.0	1271.5	1310.0	1360.0	1402.7	1438.0
47.5°	1093.4	1178.9	1226.0	1260.0	1305.3	1381.0	1449.8	1533.8	1708.3	1857.8	1981.4
45°	1212.1	1253.0	1305.8	1400.5	1488.9	1723.4	1962.8	2177.8	2892.0	3577.9	4145.8
42.5°	1271.3	1365.9	1473.5	1738.1	2043.5	2719.3	3810.3	4792.1	5628.6	6327.8	6907.7
40°	1402.4	1570.7	1940.2	2564.7	3947.9	5227.7	6332.0	7328.2	8182.5	8861.4	9425.5
37.5°	1651.1	2063.2	3270.1	4845.6	6256.3	7550.5	8657.3	9619.7	10474.1	11241.4	11880.3
35°	2104.4	3626.8	5379.2	6956.0	8392.0	9634.0	10792.6	11874.5	12836.8	13754.7	14544.2
32.5°	3626.8	5551.7	7310.3	8879.6	10300.3	11679.9	12962.2	14276.6	15459.6	16658.7	17813.0
30°	5379.2	7310.3	9043.6	10645.9	12223.1	13796.1	15360.2	17065.2	18784.7	20475.9	22414.4
27.5°	6956.0	8879.6	10645.9	12406.0	14225.3	16039.2	18292.0	20595.7	23463.0	25978.0	28143.5
25°	8392.0	10300.3	12223.1	14225.3	16340.0	18917.3	22091.1	25528.3	28695.2	31497.7	33865.3
22.5°	9634.0	11679.9	13796.1	16039.2	18917.3	22596.7	26596.5	30380.6	33821.8	36868.0	39632.2
20°	10792.6	12962.2	15360.2	18292.0	22091.1	26596.5	30952.2	35014.5	38805.6	42594.3	45994.7
17.5°	11874.5	14276.6	17065.2	20595.7	25528.3	30380.6	35014.5	39529.8	44130.0	48912.4	53281.7
15°	12836.8	15459.6	18784.7	23463.0	28695.2	33821.8	38805.6	44130.0	49913.1	55746.3	61466.4
12.5°	13754.7	16658.7	20475.9	25978.0	31497.7	36868.0	42594.3	48912.4	55746.3	62855.7	67770.8
10°	14544.2	17813.0	22414.4	28143.5	33865.3	39632.2	45994.7	53281.7	61466.4	67770.8	72498.1
7.5°	15168.7	18728.6	23957.2	29874.3	35763.3	42020.5	49196.8	57459.8	65512.8	71545.6	75366.7
5°	15620.6	19392.6	25079.1	31137.4	37154.4	43781.2	51575.7	60629.8	68251.2	73741.4	77107.1
2.5°	15894.1	19795.1	25760.6	31906.5	38004.3	44861.4	53043.7	62602.0	69975.5	74957.8	78041.9
0°	15985.7	19930.0	25989.2	32164.8	38290.2	45225.6	53540.2	63272.1	70565.3	75331.5	78361.7
-2.5°	15894.1	19795.1	25760.6	31906.5	38004.3	44861.4	53043.7	62602.0	69975.5	74957.8	78041.9
-5°	15620.6	19392.6	25079.1	31137.4	37154.4	43781.2	51575.7	60629.8	68251.2	73741.4	77107.1
-7.5°	15168.7	18728.6	23957.2	29874.3	35763.3	42020.5	49196.8	57459.8	65512.8	71545.6	75366.7
-10°	14544.2	17813.0	22414.4	28143.5	33865.3	39632.2	45994.7	53281.7	61466.4	67770.8	72498.1
-12.5°	13754.7	16658.7	20475.9	25978.0	31497.7	36868.0	42594.3	48912.4	55746.3	62855.7	67770.8
-15°	12836.8	15459.6	18784.7	23463.0	28695.2	33821.8	38805.6	44130.0	49913.1	55746.3	61466.4
-17.5°	11874.5	14276.6	17065.2	20595.7	25528.3	30380.6	35014.5	39529.8	44130.0	48912.4	53281.7
-20°	10792.6	12962.2	15360.2	18292.0	22091.1	26596.5	30952.2	35014.5	38805.6	42594.3	45994.7



REPORT NUMBER: P731202 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	9634.0	11679.9	13796.1	16039.2	18917.3	22596.7	26596.5	30380.6	33821.8	36868.0	39632.2
-25°	8392.0	10300.3	12223.1	14225.3	16340.0	18917.3	22091.1	25528.3	28695.2	31497.7	33865.3
-27.5°	6956.0	8879.6	10645.9	12406.0	14225.3	16039.2	18292.0	20595.7	23463.0	25978.0	28143.5
-30°	5379.2	7310.3	9043.6	10645.9	12223.1	13796.1	15360.2	17065.2	18784.7	20475.9	22414.4
-32.5°	3626.8	5551.7	7310.3	8879.6	10300.3	11679.9	12962.2	14276.6	15459.6	16658.7	17813.0
-35°	2104.4	3626.8	5379.2	6956.0	8392.0	9634.0	10792.6	11874.5	12836.8	13754.7	14544.2
-37.5°	1651.1	2063.2	3270.1	4845.6	6256.3	7550.5	8657.3	9619.7	10474.1	11241.4	11880.3
-40°	1402.4	1570.7	1940.2	2564.7	3947.9	5227.7	6332.0	7328.2	8182.5	8861.4	9425.5
-42.5°	1271.3	1365.9	1473.5	1738.1	2043.5	2719.3	3810.3	4792.1	5628.6	6327.8	6907.7
-45°	1212.1	1253.0	1305.8	1400.5	1488.9	1723.4	1962.8	2177.8	2892.0	3577.9	4145.8
-47.5°	1093.4	1178.9	1226.0	1260.0	1305.3	1381.0	1449.8	1533.8	1708.3	1857.8	1981.4
-50°	946.8	1035.1	1110.3	1180.8	1220.1	1247.0	1271.5	1310.0	1360.0	1402.7	1438.0
-52.5°	785.1	869.9	950.7	1024.1	1084.7	1140.3	1190.8	1215.4	1233.0	1248.1	1260.6
-55°	639.8	709.6	775.3	842.8	907.4	966.7	1019.0	1060.4	1096.6	1127.5	1153.0
-57.5°	507.0	562.5	617.2	673.5	725.7	773.6	820.3	864.1	902.4	935.1	962.1
-60°	388.2	429.8	476.9	521.4	562.5	600.4	639.8	674.9	705.6	731.8	753.3
-62.5°	284.7	319.6	355.1	388.2	418.8	449.8	480.6	508.1	532.1	552.5	569.3
-65°	198.5	225.9	251.6	275.5	297.8	323.0	345.7	365.9	383.5	398.6	410.9
-67.5°	131.9	149.9	166.7	182.4	200.2	218.2	234.4	248.9	261.4	272.2	281.0
-70°	86.6	94.9	102.7	112.4	125.2	136.8	147.3	156.6	164.7	171.6	177.3
-72.5°	56.6	61.6	66.8	73.1	78.9	84.2	89.0	93.3	97.0	100.1	102.7
-75°	34.4	37.4	41.4	45.1	48.5	51.6	54.4	56.9	59.1	61.0	62.5
-77.5°	21.4	23.3	25.2	26.9	28.5	29.9	31.2	32.3	33.3	34.2	34.9
-80°	14.9	15.6	16.2	16.8	17.4	17.8	18.3	18.7	19.0	19.3	19.6
-82.5°	10.3	10.6	11.0	11.3	11.6	11.9	12.1	12.3	12.5	12.6	12.8
-85°	6.6	6.7	6.9	7.1	7.2	7.4	7.5	7.6	7.7	7.8	7.9
-87.5°	3.3	3.4	3.5	3.5	3.6	3.7	3.8	3.8	3.9	3.9	3.9
-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: P731202 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-5S-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°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.8
85°	7.9	8.0	8.0	8.0	8.0	8.0	7.9	7.9	7.8	7.7	7.6
82.5°	12.9	12.9	13.0	13.0	13.0	12.9	12.9	12.8	12.6	12.5	12.3
80°	19.8	19.9	20.0	20.0	20.0	19.9	19.8	19.6	19.3	19.0	18.7
77.5°	35.4	35.8	36.0	36.1	36.0	35.8	35.4	34.9	34.2	33.3	32.3
75°	63.7	64.5	65.0	65.2	65.0	64.5	63.7	62.5	61.0	59.1	56.9
72.5°	104.7	106.1	107.0	107.3	107.0	106.1	104.7	102.7	100.1	97.0	93.3
70°	181.7	184.9	186.8	187.4	186.8	184.9	181.7	177.3	171.6	164.7	156.6
67.5°	287.8	292.8	295.7	296.7	295.7	292.8	287.8	281.0	272.2	261.4	248.9
65°	420.5	427.5	431.6	433.0	431.6	427.5	420.5	410.9	398.6	383.5	365.9
62.5°	582.4	591.8	597.5	599.4	597.5	591.8	582.4	569.3	552.5	532.1	508.1
60°	770.1	782.2	789.5	791.9	789.5	782.2	770.1	753.3	731.8	705.6	674.9
57.5°	983.2	998.3	1007.4	1010.4	1007.4	998.3	983.2	962.1	935.1	902.4	864.1
55°	1173.0	1187.3	1195.9	1198.8	1195.9	1187.3	1173.0	1153.0	1127.5	1096.6	1060.4
52.5°	1270.4	1277.4	1281.6	1283.0	1281.6	1277.4	1270.4	1260.6	1248.1	1233.0	1215.4
50°	1465.7	1485.5	1497.5	1501.5	1497.5	1485.5	1465.7	1438.0	1402.7	1360.0	1310.0
47.5°	2078.4	2148.1	2190.2	2204.2	2190.2	2148.1	2078.4	1981.4	1857.8	1708.3	1533.8
45°	4591.9	4912.9	5106.5	5171.2	5106.5	4912.9	4591.9	4145.8	3577.9	2892.0	2177.8
42.5°	7363.8	7692.3	7890.5	7956.8	7890.5	7692.3	7363.8	6907.7	6327.8	5628.6	4792.1
40°	9869.8	10190.3	10383.9	10448.6	10383.9	10190.3	9869.8	9425.5	8861.4	8182.5	7328.2
37.5°	12384.6	12748.8	12969.0	13042.7	12969.0	12748.8	12384.6	11880.3	11241.4	10474.1	9619.7
35°	15168.7	15620.6	15894.1	15985.7	15894.1	15620.6	15168.7	14544.2	13754.7	12836.8	11874.5
32.5°	18728.6	19392.6	19795.1	19930.0	19795.1	19392.6	18728.6	17813.0	16658.7	15459.6	14276.6
30°	23957.2	25079.1	25760.6	25989.2	25760.6	25079.1	23957.2	22414.4	20475.9	18784.7	17065.2
27.5°	29874.3	31137.4	31906.5	32164.8	31906.5	31137.4	29874.3	28143.5	25978.0	23463.0	20595.7
25°	35763.3	37154.4	38004.3	38290.2	38004.3	37154.4	35763.3	33865.3	31497.7	28695.2	25528.3
22.5°	42020.5	43781.2	44861.4	45225.6	44861.4	43781.2	42020.5	39632.2	36868.0	33821.8	30380.6
20°	49196.8	51575.7	53043.7	53540.2	53043.7	51575.7	49196.8	45994.7	42594.3	38805.6	35014.5
17.5°	57459.8	60629.8	62602.0	63272.1	62602.0	60629.8	57459.8	53281.7	48912.4	44130.0	39529.8
15°	65512.8	68251.2	69975.5	70565.3	69975.5	68251.2	65512.8	61466.4	55746.3	49913.1	44130.0
12.5°	71545.6	73741.4	74957.8	75331.5	74957.8	73741.4	71545.6	67770.8	62855.7	55746.3	48912.4
10°	75366.7	77107.1	78041.9	78361.7	78041.9	77107.1	75366.7	72498.1	67770.8	61466.4	53281.7
7.5°	77741.0	79361.0	80334.2	80677.1	80334.2	79361.0	77741.0	75366.7	71545.6	65512.8	57459.8
5°	79361.0	81045.5	82090.5	82409.2	82090.5	81045.5	79361.0	77107.1	73741.4	68251.2	60629.8
2.5°	80334.2	82090.5	82592.7	82575.6	82592.7	82090.5	80334.2	78041.9	74957.8	69975.5	62602.0
0°	80677.1	82409.2	82575.6	82256.9	82575.6	82409.2	80677.1	78361.7	75331.5	70565.3	63272.1
-2.5°	80334.2	82090.5	82592.7	82575.6	82592.7	82090.5	80334.2	78041.9	74957.8	69975.5	62602.0
-5°	79361.0	81045.5	82090.5	82409.2	82090.5	81045.5	79361.0	77107.1	73741.4	68251.2	60629.8
-7.5°	77741.0	79361.0	80334.2	80677.1	80334.2	79361.0	77741.0	75366.7	71545.6	65512.8	57459.8
-10°	75366.7	77107.1	78041.9	78361.7	78041.9	77107.1	75366.7	72498.1	67770.8	61466.4	53281.7
-12.5°	71545.6	73741.4	74957.8	75331.5	74957.8	73741.4	71545.6	67770.8	62855.7	55746.3	48912.4
-15°	65512.8	68251.2	69975.5	70565.3	69975.5	68251.2	65512.8	61466.4	55746.3	49913.1	44130.0
-17.5°	57459.8	60629.8	62602.0	63272.1	62602.0	60629.8	57459.8	53281.7	48912.4	44130.0	39529.8
-20°	49196.8	51575.7	53043.7	53540.2	53043.7	51575.7	49196.8	45994.7	42594.3	38805.6	35014.5



REPORT NUMBER: P731202 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	42020.5	43781.2	44861.4	45225.6	44861.4	43781.2	42020.5	39632.2	36868.0	33821.8	30380.6
-25°	35763.3	37154.4	38004.3	38290.2	38004.3	37154.4	35763.3	33865.3	31497.7	28695.2	25528.3
-27.5°	29874.3	31137.4	31906.5	32164.8	31906.5	31137.4	29874.3	28143.5	25978.0	23463.0	20595.7
-30°	23957.2	25079.1	25760.6	25989.2	25760.6	25079.1	23957.2	22414.4	20475.9	18784.7	17065.2
-32.5°	18728.6	19392.6	19795.1	19930.0	19795.1	19392.6	18728.6	17813.0	16658.7	15459.6	14276.6
-35°	15168.7	15620.6	15894.1	15985.7	15894.1	15620.6	15168.7	14544.2	13754.7	12836.8	11874.5
-37.5°	12384.6	12748.8	12969.0	13042.7	12969.0	12748.8	12384.6	11880.3	11241.4	10474.1	9619.7
-40°	9869.8	10190.3	10383.9	10448.6	10383.9	10190.3	9869.8	9425.5	8861.4	8182.5	7328.2
-42.5°	7363.8	7692.3	7890.5	7956.8	7890.5	7692.3	7363.8	6907.7	6327.8	5628.6	4792.1
-45°	4591.9	4912.9	5106.5	5171.2	5106.5	4912.9	4591.9	4145.8	3577.9	2892.0	2177.8
-47.5°	2078.4	2148.1	2190.2	2204.2	2190.2	2148.1	2078.4	1981.4	1857.8	1708.3	1533.8
-50°	1465.7	1485.5	1497.5	1501.5	1497.5	1485.5	1465.7	1438.0	1402.7	1360.0	1310.0
-52.5°	1270.4	1277.4	1281.6	1283.0	1281.6	1277.4	1270.4	1260.6	1248.1	1233.0	1215.4
-55°	1173.0	1187.3	1195.9	1198.8	1195.9	1187.3	1173.0	1153.0	1127.5	1096.6	1060.4
-57.5°	983.2	998.3	1007.4	1010.4	1007.4	998.3	983.2	962.1	935.1	902.4	864.1
-60°	770.1	782.2	789.5	791.9	789.5	782.2	770.1	753.3	731.8	705.6	674.9
-62.5°	582.4	591.8	597.5	599.4	597.5	591.8	582.4	569.3	552.5	532.1	508.1
-65°	420.5	427.5	431.6	433.0	431.6	427.5	420.5	410.9	398.6	383.5	365.9
-67.5°	287.8	292.8	295.7	296.7	295.7	292.8	287.8	281.0	272.2	261.4	248.9
-70°	181.7	184.9	186.8	187.4	186.8	184.9	181.7	177.3	171.6	164.7	156.6
-72.5°	104.7	106.1	107.0	107.3	107.0	106.1	104.7	102.7	100.1	97.0	93.3
-75°	63.7	64.5	65.0	65.2	65.0	64.5	63.7	62.5	61.0	59.1	56.9
-77.5°	35.4	35.8	36.0	36.1	36.0	35.8	35.4	34.9	34.2	33.3	32.3
-80°	19.8	19.9	20.0	20.0	20.0	19.9	19.8	19.6	19.3	19.0	18.7
-82.5°	12.9	12.9	13.0	13.0	13.0	12.9	12.9	12.8	12.6	12.5	12.3
-85°	7.9	8.0	8.0	8.0	8.0	8.0	7.9	7.9	7.8	7.7	7.6
-87.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.8
-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):

	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°	3.8	3.7	3.6	3.5	3.5	3.4	3.3	3.2	3.1	2.9	2.8
85°	7.5	7.4	7.2	7.1	6.9	6.7	6.6	6.3	6.1	5.9	5.7
82.5°	12.1	11.9	11.6	11.3	11.0	10.6	10.3	9.9	9.5	9.0	8.6
80°	18.3	17.8	17.4	16.8	16.2	15.6	14.9	14.2	13.4	12.7	12.1
77.5°	31.2	29.9	28.5	26.9	25.2	23.3	21.4	19.7	18.7	17.7	16.6
75°	54.4	51.6	48.5	45.1	41.4	37.4	34.4	31.9	29.2	26.4	23.5
72.5°	89.0	84.2	78.9	73.1	66.8	61.6	56.6	51.3	45.6	39.7	34.7
70°	147.3	136.8	125.2	112.4	102.7	94.9	86.6	77.7	68.4	60.6	53.5
67.5°	234.4	218.2	200.2	182.4	166.7	149.9	131.9	112.9	99.7	88.6	77.0
65°	345.7	323.0	297.8	275.5	251.6	225.9	198.5	174.3	151.8	128.3	105.4
62.5°	480.6	449.8	418.8	388.2	355.1	319.6	284.7	252.5	218.7	184.3	157.2
60°	639.8	600.4	562.5	521.4	476.9	429.8	388.2	344.2	297.8	258.7	218.2
57.5°	820.3	773.6	725.7	673.5	617.2	562.5	507.0	448.4	395.1	342.3	289.2
55°	1019.0	966.7	907.4	842.8	775.3	709.6	639.8	570.7	503.9	434.1	374.5
52.5°	1190.8	1140.3	1084.7	1024.1	950.7	869.9	785.1	705.6	622.3	544.0	466.1
50°	1271.5	1247.0	1220.1	1180.8	1110.3	1035.1	946.8	849.7	753.3	660.1	568.4
47.5°	1449.8	1381.0	1305.3	1260.0	1226.0	1178.9	1093.4	1002.6	893.9	782.2	679.2
45°	1962.8	1723.4	1488.9	1400.5	1305.8	1253.0	1212.1	1132.8	1032.8	916.2	791.9
42.5°	3810.3	2719.3	2043.5	1738.1	1473.5	1365.9	1271.3	1225.7	1152.6	1042.6	916.2
40°	6332.0	5227.7	3947.9	2564.7	1940.2	1570.7	1402.4	1280.5	1230.2	1152.6	1032.8
37.5°	8657.3	7550.5	6256.3	4845.6	3270.1	2063.2	1651.1	1414.7	1280.5	1225.7	1132.8
35°	10792.6	9634.0	8392.0	6956.0	5379.2	3626.8	2104.4	1651.1	1402.4	1271.3	1212.1
32.5°	12962.2	11679.9	10300.3	8879.6	7310.3	5551.7	3626.8	2063.2	1570.7	1365.9	1253.0
30°	15360.2	13796.1	12223.1	10645.9	9043.6	7310.3	5379.2	3270.1	1940.2	1473.5	1305.8
27.5°	18292.0	16039.2	14225.3	12406.0	10645.9	8879.6	6956.0	4845.6	2564.7	1738.1	1400.5
25°	22091.1	18917.3	16340.0	14225.3	12223.1	10300.3	8392.0	6256.3	3947.9	2043.5	1488.9
22.5°	26596.5	22596.7	18917.3	16039.2	13796.1	11679.9	9634.0	7550.5	5227.7	2719.3	1723.4
20°	30952.2	26596.5	22091.1	18292.0	15360.2	12962.2	10792.6	8657.3	6332.0	3810.3	1962.8
17.5°	35014.5	30380.6	25528.3	20595.7	17065.2	14276.6	11874.5	9619.7	7328.2	4792.1	2177.8
15°	38805.6	33821.8	28695.2	23463.0	18784.7	15459.6	12836.8	10474.1	8182.5	5628.6	2892.0
12.5°	42594.3	36868.0	31497.7	25978.0	20475.9	16658.7	13754.7	11241.4	8861.4	6327.8	3577.9
10°	45994.7	39632.2	33865.3	28143.5	22414.4	17813.0	14544.2	11880.3	9425.5	6907.7	4145.8
7.5°	49196.8	42020.5	35763.3	29874.3	23957.2	18728.6	15168.7	12384.6	9869.8	7363.8	4591.9
5°	51575.7	43781.2	37154.4	31137.4	25079.1	19392.6	15620.6	12748.8	10190.3	7692.3	4912.9
2.5°	53043.7	44861.4	38004.3	31906.5	25760.6	19795.1	15894.1	12969.0	10383.9	7890.5	5106.5
0°	53540.2	45225.6	38290.2	32164.8	25989.2	19930.0	15985.7	13042.7	10448.6	7956.8	5171.2
-2.5°	53043.7	44861.4	38004.3	31906.5	25760.6	19795.1	15894.1	12969.0	10383.9	7890.5	5106.5
-5°	51575.7	43781.2	37154.4	31137.4	25079.1	19392.6	15620.6	12748.8	10190.3	7692.3	4912.9
-7.5°	49196.8	42020.5	35763.3	29874.3	23957.2	18728.6	15168.7	12384.6	9869.8	7363.8	4591.9
-10°	45994.7	39632.2	33865.3	28143.5	22414.4	17813.0	14544.2	11880.3	9425.5	6907.7	4145.8
-12.5°	42594.3	36868.0	31497.7	25978.0	20475.9	16658.7	13754.7	11241.4	8861.4	6327.8	3577.9
-15°	38805.6	33821.8	28695.2	23463.0	18784.7	15459.6	12836.8	10474.1	8182.5	5628.6	2892.0
-17.5°	35014.5	30380.6	25528.3	20595.7	17065.2	14276.6	11874.5	9619.7	7328.2	4792.1	2177.8
-20°	30952.2	26596.5	22091.1	18292.0	15360.2	12962.2	10792.6	8657.3	6332.0	3810.3	1962.8



REPORT NUMBER: P731202 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	26596.5	22596.7	18917.3	16039.2	13796.1	11679.9	9634.0	7550.5	5227.7	2719.3	1723.4
-25°	22091.1	18917.3	16340.0	14225.3	12223.1	10300.3	8392.0	6256.3	3947.9	2043.5	1488.9
-27.5°	18292.0	16039.2	14225.3	12406.0	10645.9	8879.6	6956.0	4845.6	2564.7	1738.1	1400.5
-30°	15360.2	13796.1	12223.1	10645.9	9043.6	7310.3	5379.2	3270.1	1940.2	1473.5	1305.8
-32.5°	12962.2	11679.9	10300.3	8879.6	7310.3	5551.7	3626.8	2063.2	1570.7	1365.9	1253.0
-35°	10792.6	9634.0	8392.0	6956.0	5379.2	3626.8	2104.4	1651.1	1402.4	1271.3	1212.1
-37.5°	8657.3	7550.5	6256.3	4845.6	3270.1	2063.2	1651.1	1414.7	1280.5	1225.7	1132.8
-40°	6332.0	5227.7	3947.9	2564.7	1940.2	1570.7	1402.4	1280.5	1230.2	1152.6	1032.8
-42.5°	3810.3	2719.3	2043.5	1738.1	1473.5	1365.9	1271.3	1225.7	1152.6	1042.6	916.2
-45°	1962.8	1723.4	1488.9	1400.5	1305.8	1253.0	1212.1	1132.8	1032.8	916.2	791.9
-47.5°	1449.8	1381.0	1305.3	1260.0	1226.0	1178.9	1093.4	1002.6	893.9	782.2	679.2
-50°	1271.5	1247.0	1220.1	1180.8	1110.3	1035.1	946.8	849.7	753.3	660.1	568.4
-52.5°	1190.8	1140.3	1084.7	1024.1	950.7	869.9	785.1	705.6	622.3	544.0	466.1
-55°	1019.0	966.7	907.4	842.8	775.3	709.6	639.8	570.7	503.9	434.1	374.5
-57.5°	820.3	773.6	725.7	673.5	617.2	562.5	507.0	448.4	395.1	342.3	289.2
-60°	639.8	600.4	562.5	521.4	476.9	429.8	388.2	344.2	297.8	258.7	218.2
-62.5°	480.6	449.8	418.8	388.2	355.1	319.6	284.7	252.5	218.7	184.3	157.2
-65°	345.7	323.0	297.8	275.5	251.6	225.9	198.5	174.3	151.8	128.3	105.4
-67.5°	234.4	218.2	200.2	182.4	166.7	149.9	131.9	112.9	99.7	88.6	77.0
-70°	147.3	136.8	125.2	112.4	102.7	94.9	86.6	77.7	68.4	60.6	53.5
-72.5°	89.0	84.2	78.9	73.1	66.8	61.6	56.6	51.3	45.6	39.7	34.7
-75°	54.4	51.6	48.5	45.1	41.4	37.4	34.4	31.9	29.2	26.4	23.5
-77.5°	31.2	29.9	28.5	26.9	25.2	23.3	21.4	19.7	18.7	17.7	16.6
-80°	18.3	17.8	17.4	16.8	16.2	15.6	14.9	14.2	13.4	12.7	12.1
-82.5°	12.1	11.9	11.6	11.3	11.0	10.6	10.3	9.9	9.5	9.0	8.6
-85°	7.5	7.4	7.2	7.1	6.9	6.7	6.6	6.3	6.1	5.9	5.7
-87.5°	3.8	3.7	3.6	3.5	3.5	3.4	3.3	3.2	3.1	2.9	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: P731202 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-5S-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°	2.7	2.6	2.4	2.3	2.1	2.0	1.8	1.7	1.5	1.4	1.2
85°	5.4	5.1	4.9	4.6	4.3	4.0	3.7	3.4	3.1	2.7	2.4
82.5°	8.1	7.7	7.3	6.9	6.4	6.0	5.5	5.1	4.6	4.1	3.6
80°	11.5	10.8	10.1	9.4	8.7	8.0	7.4	6.7	6.1	5.4	4.8
77.5°	15.5	14.4	13.2	12.3	11.4	10.4	9.5	8.5	7.6	6.8	6.0
75°	20.5	18.8	17.4	15.9	14.4	12.9	11.7	10.6	9.4	8.2	7.1
72.5°	31.1	27.4	23.5	19.8	18.0	16.2	14.3	12.6	11.2	9.8	8.4
70°	46.1	38.4	33.0	28.5	23.8	19.6	17.4	15.3	13.1	11.4	9.8
67.5°	65.0	56.4	47.4	38.2	32.0	26.6	21.1	18.1	15.6	13.1	11.2
65°	92.0	78.0	64.1	53.9	43.4	34.2	28.1	21.9	18.1	15.3	12.6
62.5°	129.0	103.4	87.5	71.2	57.8	46.0	34.9	28.1	21.1	17.4	14.3
60°	179.2	147.3	114.4	93.3	75.0	59.1	46.0	34.2	26.6	19.6	16.2
57.5°	243.5	196.3	158.3	121.7	95.2	75.0	57.8	43.4	32.0	23.8	18.0
55°	313.0	258.9	206.5	162.0	121.7	93.3	71.2	53.9	38.2	28.5	19.8
52.5°	394.0	325.9	264.0	206.5	158.3	114.4	87.5	64.1	47.4	33.0	23.5
50°	482.1	400.5	325.9	258.9	196.3	147.3	103.4	78.0	56.4	38.4	27.4
47.5°	576.5	482.1	394.0	313.0	243.5	179.2	129.0	92.0	65.0	46.1	31.1
45°	679.2	568.4	466.1	374.5	289.2	218.2	157.2	105.4	77.0	53.5	34.7
42.5°	782.2	660.1	544.0	434.1	342.3	258.7	184.3	128.3	88.6	60.6	39.7
40°	893.9	753.3	622.3	503.9	395.1	297.8	218.7	151.8	99.7	68.4	45.6
37.5°	1002.6	849.7	705.6	570.7	448.4	344.2	252.5	174.3	112.9	77.7	51.3
35°	1093.4	946.8	785.1	639.8	507.0	388.2	284.7	198.5	131.9	86.6	56.6
32.5°	1178.9	1035.1	869.9	709.6	562.5	429.8	319.6	225.9	149.9	94.9	61.6
30°	1226.0	1110.3	950.7	775.3	617.2	476.9	355.1	251.6	166.7	102.7	66.8
27.5°	1260.0	1180.8	1024.1	842.8	673.5	521.4	388.2	275.5	182.4	112.4	73.1
25°	1305.3	1220.1	1084.7	907.4	725.7	562.5	418.8	297.8	200.2	125.2	78.9
22.5°	1381.0	1247.0	1140.3	966.7	773.6	600.4	449.8	323.0	218.2	136.8	84.2
20°	1449.8	1271.5	1190.8	1019.0	820.3	639.8	480.6	345.7	234.4	147.3	89.0
17.5°	1533.8	1310.0	1215.4	1060.4	864.1	674.9	508.1	365.9	248.9	156.6	93.3
15°	1708.3	1360.0	1233.0	1096.6	902.4	705.6	532.1	383.5	261.4	164.7	97.0
12.5°	1857.8	1402.7	1248.1	1127.5	935.1	731.8	552.5	398.6	272.2	171.6	100.1
10°	1981.4	1438.0	1260.6	1153.0	962.1	753.3	569.3	410.9	281.0	177.3	102.7
7.5°	2078.4	1465.7	1270.4	1173.0	983.2	770.1	582.4	420.5	287.8	181.7	104.7
5°	2148.1	1485.5	1277.4	1187.3	998.3	782.2	591.8	427.5	292.8	184.9	106.1
2.5°	2190.2	1497.5	1281.6	1195.9	1007.4	789.5	597.5	431.6	295.7	186.8	107.0
0°	2204.2	1501.5	1283.0	1198.8	1010.4	791.9	599.4	433.0	296.7	187.4	107.3
-2.5°	2190.2	1497.5	1281.6	1195.9	1007.4	789.5	597.5	431.6	295.7	186.8	107.0
-5°	2148.1	1485.5	1277.4	1187.3	998.3	782.2	591.8	427.5	292.8	184.9	106.1
-7.5°	2078.4	1465.7	1270.4	1173.0	983.2	770.1	582.4	420.5	287.8	181.7	104.7
-10°	1981.4	1438.0	1260.6	1153.0	962.1	753.3	569.3	410.9	281.0	177.3	102.7
-12.5°	1857.8	1402.7	1248.1	1127.5	935.1	731.8	552.5	398.6	272.2	171.6	100.1
-15°	1708.3	1360.0	1233.0	1096.6	902.4	705.6	532.1	383.5	261.4	164.7	97.0
-17.5°	1533.8	1310.0	1215.4	1060.4	864.1	674.9	508.1	365.9	248.9	156.6	93.3
-20°	1449.8	1271.5	1190.8	1019.0	820.3	639.8	480.6	345.7	234.4	147.3	89.0



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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°	1381.0	1247.0	1140.3	966.7	773.6	600.4	449.8	323.0	218.2	136.8	84.2
-25°	1305.3	1220.1	1084.7	907.4	725.7	562.5	418.8	297.8	200.2	125.2	78.9
-27.5°	1260.0	1180.8	1024.1	842.8	673.5	521.4	388.2	275.5	182.4	112.4	73.1
-30°	1226.0	1110.3	950.7	775.3	617.2	476.9	355.1	251.6	166.7	102.7	66.8
-32.5°	1178.9	1035.1	869.9	709.6	562.5	429.8	319.6	225.9	149.9	94.9	61.6
-35°	1093.4	946.8	785.1	639.8	507.0	388.2	284.7	198.5	131.9	86.6	56.6
-37.5°	1002.6	849.7	705.6	570.7	448.4	344.2	252.5	174.3	112.9	77.7	51.3
-40°	893.9	753.3	622.3	503.9	395.1	297.8	218.7	151.8	99.7	68.4	45.6
-42.5°	782.2	660.1	544.0	434.1	342.3	258.7	184.3	128.3	88.6	60.6	39.7
-45°	679.2	568.4	466.1	374.5	289.2	218.2	157.2	105.4	77.0	53.5	34.7
-47.5°	576.5	482.1	394.0	313.0	243.5	179.2	129.0	92.0	65.0	46.1	31.1
-50°	482.1	400.5	325.9	258.9	196.3	147.3	103.4	78.0	56.4	38.4	27.4
-52.5°	394.0	325.9	264.0	206.5	158.3	114.4	87.5	64.1	47.4	33.0	23.5
-55°	313.0	258.9	206.5	162.0	121.7	93.3	71.2	53.9	38.2	28.5	19.8
-57.5°	243.5	196.3	158.3	121.7	95.2	75.0	57.8	43.4	32.0	23.8	18.0
-60°	179.2	147.3	114.4	93.3	75.0	59.1	46.0	34.2	26.6	19.6	16.2
-62.5°	129.0	103.4	87.5	71.2	57.8	46.0	34.9	28.1	21.1	17.4	14.3
-65°	92.0	78.0	64.1	53.9	43.4	34.2	28.1	21.9	18.1	15.3	12.6
-67.5°	65.0	56.4	47.4	38.2	32.0	26.6	21.1	18.1	15.6	13.1	11.2
-70°	46.1	38.4	33.0	28.5	23.8	19.6	17.4	15.3	13.1	11.4	9.8
-72.5°	31.1	27.4	23.5	19.8	18.0	16.2	14.3	12.6	11.2	9.8	8.4
-75°	20.5	18.8	17.4	15.9	14.4	12.9	11.7	10.6	9.4	8.2	7.1
-77.5°	15.5	14.4	13.2	12.3	11.4	10.4	9.5	8.5	7.6	6.8	6.0
-80°	11.5	10.8	10.1	9.4	8.7	8.0	7.4	6.7	6.1	5.4	4.8
-82.5°	8.1	7.7	7.3	6.9	6.4	6.0	5.5	5.1	4.6	4.1	3.6
-85°	5.4	5.1	4.9	4.6	4.3	4.0	3.7	3.4	3.1	2.7	2.4
-87.5°	2.7	2.6	2.4	2.3	2.1	2.0	1.8	1.7	1.5	1.4	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):

	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	0.9	0.7	0.5	0.3	0.2	0.0
85°	2.1	1.7	1.4	1.0	0.7	0.3	0.0
82.5°	3.1	2.6	2.1	1.6	1.0	0.5	0.0
80°	4.1	3.4	2.8	2.1	1.4	0.7	0.0
77.5°	5.1	4.3	3.4	2.6	1.7	0.9	0.0
75°	6.1	5.1	4.1	3.1	2.1	1.0	0.0
72.5°	7.1	6.0	4.8	3.6	2.4	1.2	0.0
70°	8.2	6.8	5.4	4.1	2.7	1.4	0.0
67.5°	9.4	7.6	6.1	4.6	3.1	1.5	0.0
65°	10.6	8.5	6.7	5.1	3.4	1.7	0.0
62.5°	11.7	9.5	7.4	5.5	3.7	1.8	0.0
60°	12.9	10.4	8.0	6.0	4.0	2.0	0.0
57.5°	14.4	11.4	8.7	6.4	4.3	2.1	0.0
55°	15.9	12.3	9.4	6.9	4.6	2.3	0.0
52.5°	17.4	13.2	10.1	7.3	4.9	2.4	0.0
50°	18.8	14.4	10.8	7.7	5.1	2.6	0.0
47.5°	20.5	15.5	11.5	8.1	5.4	2.7	0.0
45°	23.5	16.6	12.1	8.6	5.7	2.8	0.0
42.5°	26.4	17.7	12.7	9.0	5.9	2.9	0.0
40°	29.2	18.7	13.4	9.5	6.1	3.1	0.0
37.5°	31.9	19.7	14.2	9.9	6.3	3.2	0.0
35°	34.4	21.4	14.9	10.3	6.6	3.3	0.0
32.5°	37.4	23.3	15.6	10.6	6.7	3.4	0.0
30°	41.4	25.2	16.2	11.0	6.9	3.5	0.0
27.5°	45.1	26.9	16.8	11.3	7.1	3.5	0.0
25°	48.5	28.5	17.4	11.6	7.2	3.6	0.0
22.5°	51.6	29.9	17.8	11.9	7.4	3.7	0.0
20°	54.4	31.2	18.3	12.1	7.5	3.8	0.0
17.5°	56.9	32.3	18.7	12.3	7.6	3.8	0.0
15°	59.1	33.3	19.0	12.5	7.7	3.9	0.0
12.5°	61.0	34.2	19.3	12.6	7.8	3.9	0.0
10°	62.5	34.9	19.6	12.8	7.9	3.9	0.0
7.5°	63.7	35.4	19.8	12.9	7.9	4.0	0.0
5°	64.5	35.8	19.9	12.9	8.0	4.0	0.0
2.5°	65.0	36.0	20.0	13.0	8.0	4.0	0.0
0°	65.2	36.1	20.0	13.0	8.0	4.0	0.0
-2.5°	65.0	36.0	20.0	13.0	8.0	4.0	0.0
-5°	64.5	35.8	19.9	12.9	8.0	4.0	0.0
-7.5°	63.7	35.4	19.8	12.9	7.9	4.0	0.0
-10°	62.5	34.9	19.6	12.8	7.9	3.9	0.0
-12.5°	61.0	34.2	19.3	12.6	7.8	3.9	0.0
-15°	59.1	33.3	19.0	12.5	7.7	3.9	0.0
-17.5°	56.9	32.3	18.7	12.3	7.6	3.8	0.0
-20°	54.4	31.2	18.3	12.1	7.5	3.8	0.0



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	51.6	29.9	17.8	11.9	7.4	3.7	0.0
-25°	48.5	28.5	17.4	11.6	7.2	3.6	0.0
-27.5°	45.1	26.9	16.8	11.3	7.1	3.5	0.0
-30°	41.4	25.2	16.2	11.0	6.9	3.5	0.0
-32.5°	37.4	23.3	15.6	10.6	6.7	3.4	0.0
-35°	34.4	21.4	14.9	10.3	6.6	3.3	0.0
-37.5°	31.9	19.7	14.2	9.9	6.3	3.2	0.0
-40°	29.2	18.7	13.4	9.5	6.1	3.1	0.0
-42.5°	26.4	17.7	12.7	9.0	5.9	2.9	0.0
-45°	23.5	16.6	12.1	8.6	5.7	2.8	0.0
-47.5°	20.5	15.5	11.5	8.1	5.4	2.7	0.0
-50°	18.8	14.4	10.8	7.7	5.1	2.6	0.0
-52.5°	17.4	13.2	10.1	7.3	4.9	2.4	0.0
-55°	15.9	12.3	9.4	6.9	4.6	2.3	0.0
-57.5°	14.4	11.4	8.7	6.4	4.3	2.1	0.0
-60°	12.9	10.4	8.0	6.0	4.0	2.0	0.0
-62.5°	11.7	9.5	7.4	5.5	3.7	1.8	0.0
-65°	10.6	8.5	6.7	5.1	3.4	1.7	0.0
-67.5°	9.4	7.6	6.1	4.6	3.1	1.5	0.0
-70°	8.2	6.8	5.4	4.1	2.7	1.4	0.0
-72.5°	7.1	6.0	4.8	3.6	2.4	1.2	0.0
-75°	6.1	5.1	4.1	3.1	2.1	1.0	0.0
-77.5°	5.1	4.3	3.4	2.6	1.7	0.9	0.0
-80°	4.1	3.4	2.8	2.1	1.4	0.7	0.0
-82.5°	3.1	2.6	2.1	1.6	1.0	0.5	0.0
-85°	2.1	1.7	1.4	1.0	0.7	0.3	0.0
-87.5°	1.0	0.9	0.7	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

