

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: P731232 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-80-5S-HEG**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731232 (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-57-80-5S-HEG
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 5S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

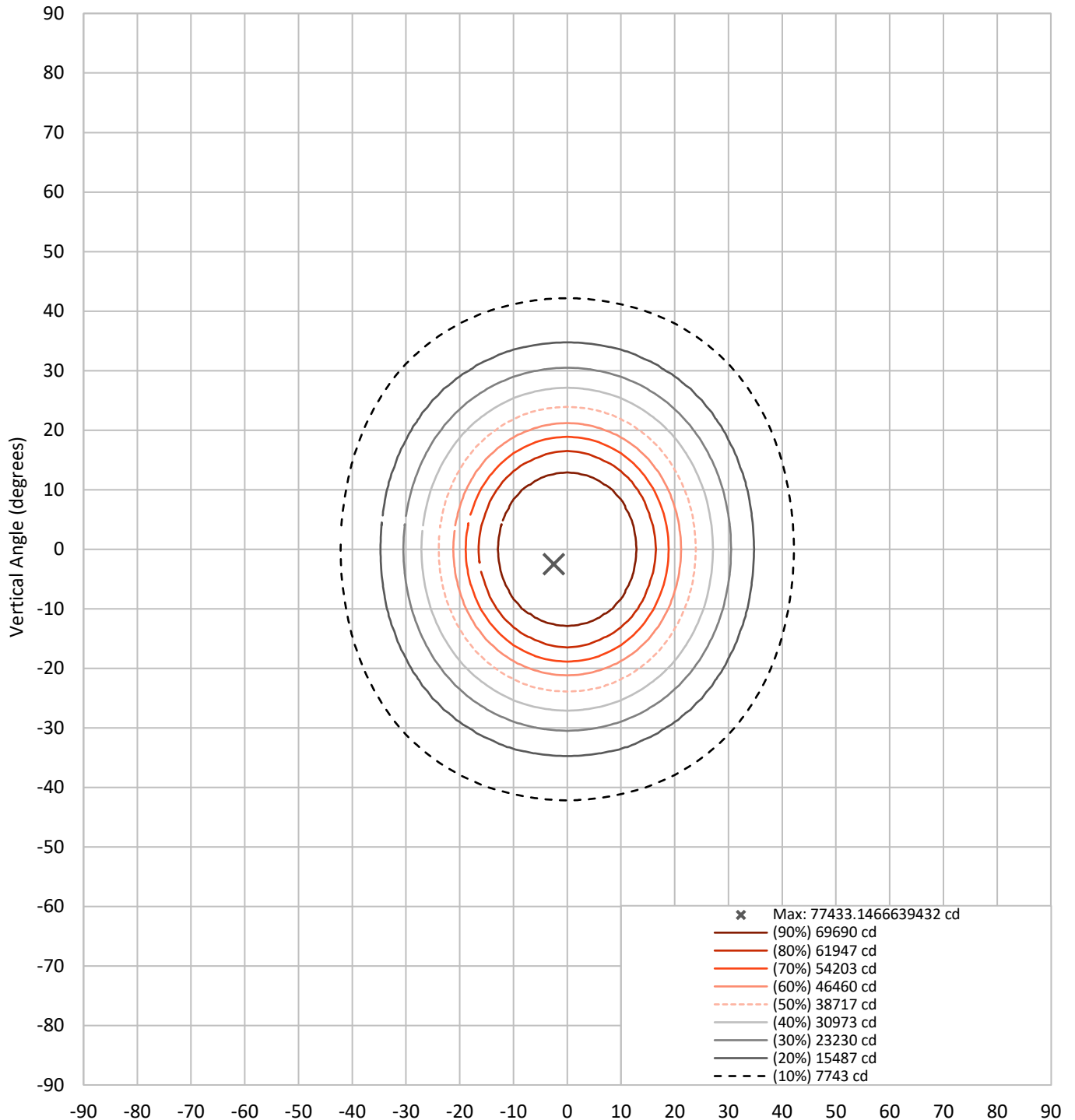
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	56599 lumens	Max Intensity:	77433.1 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x -2.5°V
Efficacy:	163.7 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:	31752 lumens	Field Lumens:	52736.2 lumens
Beam Efficiency:	56.1%	Field Efficiency:	93.2%

Input Watts (W): 345.8
Input Voltage (V): NR
Input Current (A_{in}): 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





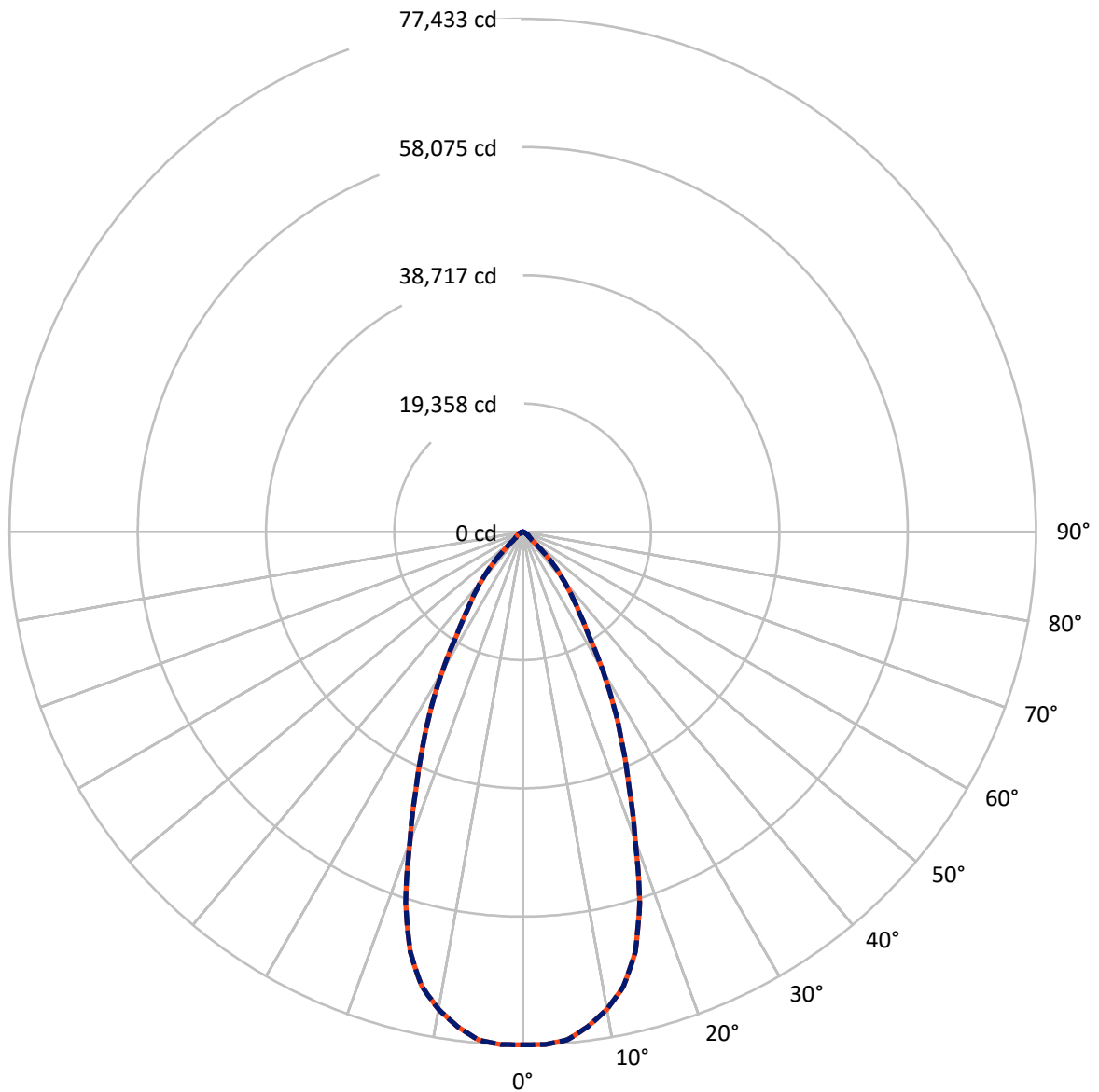
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Lumen Table

90																
80	0.1	0.5		1.8		3.8		4.9		3.8		1.8		0.5		0.1
70																
60	0.2	0.3	1.0	2.5	5.0	8.2	11.1	12.7	12.7	11.1	8.2	5.0	2.5	1.0	0.3	0.2
50		0.7	2.9	7.8	15.2	23.2	29.3	32.5	32.5	29.3	23.2	15.2	7.8	2.9	0.7	
40	0.6	1.5	6.4	16.2	27.9	50.4	102.6	144.4	144.4	102.6	50.4	27.9	16.2	6.4	1.5	0.6
30		2.7	10.8	24.2	70.3	212.6	359.0	460.0	460.0	359.0	212.6	70.3	24.2	10.8	2.7	
20	1.1	4.0	14.9	39.8	193.2	439.6	786.7	1055.9	1055.9	786.7	439.6	193.2	39.8	14.9	4.0	1.1
10		5.0	17.6	76.9	306.4	740.3	1375.8	1874.3	1874.3	1375.8	740.3	306.4	76.9	17.6	5.0	
0	1.3	5.6	18.9	105.1	381.3	964.6	1819.7	2271.5	2271.5	1819.7	964.6	381.3	105.1	18.9	5.6	1.3
-10		5.6	18.9	105.1	381.3	964.6	1819.7	2271.5	2271.5	1819.7	964.6	381.3	105.1	18.9	5.6	
-20	1.1	5.0	17.6	76.9	306.4	740.3	1375.8	1874.3	1874.3	1375.8	740.3	306.4	76.9	17.6	5.0	1.1
-30		4.0	14.9	39.8	193.2	439.6	786.7	1055.9	1055.9	786.7	439.6	193.2	39.8	14.9	4.0	
-40	0.6	2.7	10.8	24.2	70.3	212.6	359.0	460.0	460.0	359.0	212.6	70.3	24.2	10.8	2.7	0.6
-50		1.5	6.4	16.2	27.9	50.4	102.6	144.4	144.4	102.6	50.4	27.9	16.2	6.4	1.5	
-60	0.2	0.7	2.9	7.8	15.2	23.2	29.3	32.5	32.5	29.3	23.2	15.2	7.8	2.9	0.7	0.2
-70		0.3	1.0	2.5	5.0	8.2	11.1	12.7	12.7	11.1	8.2	5.0	2.5	1.0	0.3	
-80																
-90	0.1	0.5		1.8		3.8		4.9		3.8		1.8		0.5		0.1

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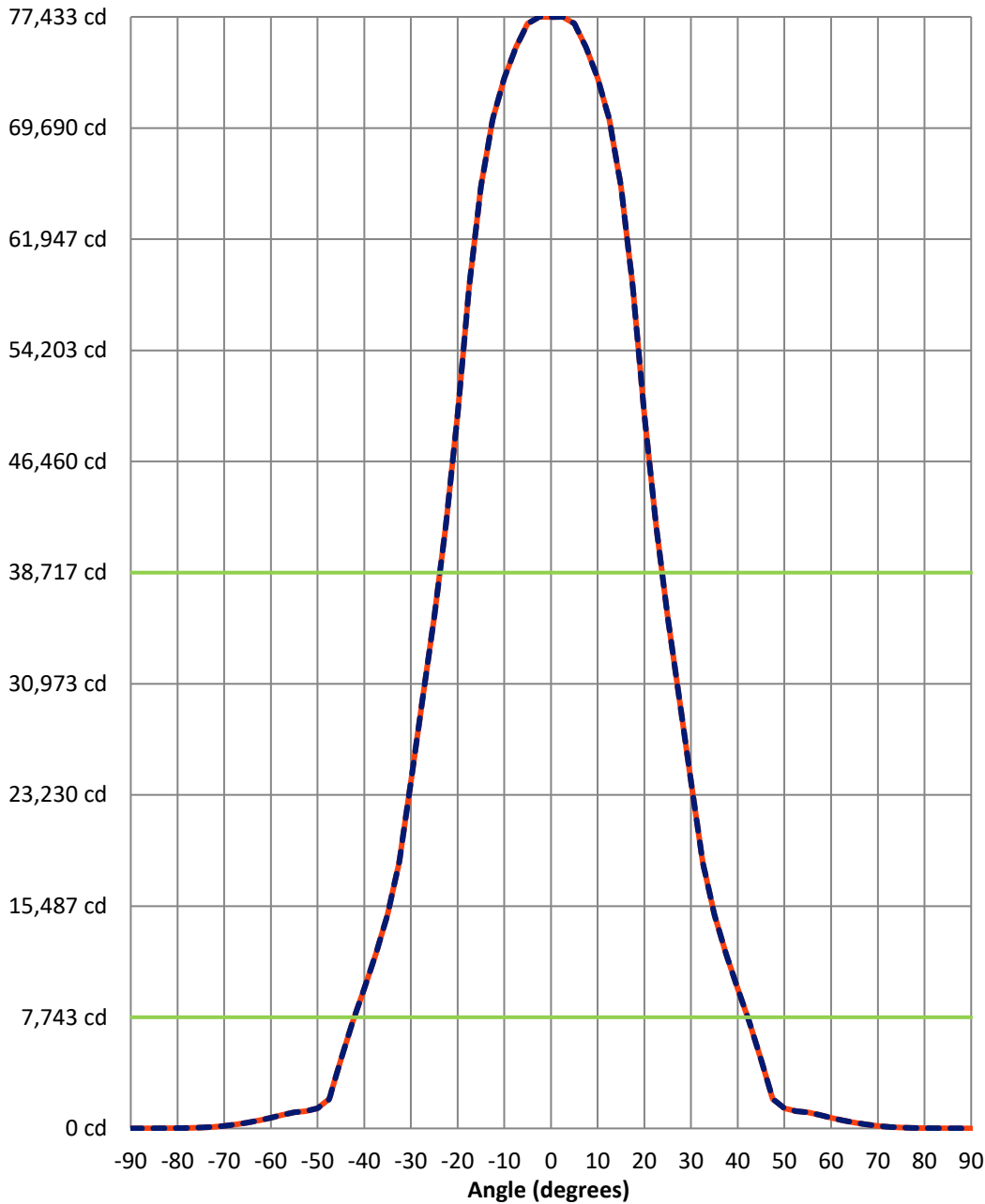
Luminous Intensity Polar Plot



— 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: 31752
 Efficiency: 56.1%

Field:
 H Angle: 84.3°
 V Angle: 84.3°
 Lumens: 52736.2
 Efficiency: 93.2%

Spill:
 Lumens: 3862.8
 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	0.8	1.0	1.1	1.3	1.5	1.6
85°	0.0	0.3	0.7	1.0	1.3	1.6	2.0	2.3	2.6	2.9	3.2
82.5°	0.0	0.5	1.0	1.5	2.0	2.5	2.9	3.4	3.9	4.3	4.8
80°	0.0	0.7	1.3	2.0	2.6	3.3	3.9	4.5	5.1	5.7	6.3
77.5°	0.0	0.8	1.6	2.5	3.3	4.1	4.9	5.6	6.4	7.1	8.0
75°	0.0	1.0	2.0	2.9	3.9	4.9	5.8	6.7	7.6	8.8	9.9
72.5°	0.0	1.1	2.3	3.4	4.5	5.6	6.7	7.9	9.2	10.5	11.8
70°	0.0	1.3	2.6	3.9	5.1	6.4	7.6	9.2	10.7	12.3	14.3
67.5°	0.0	1.5	2.9	4.3	5.7	7.1	8.8	10.5	12.3	14.6	17.0
65°	0.0	1.6	3.2	4.8	6.3	8.0	9.9	11.8	14.3	17.0	20.5
62.5°	0.0	1.8	3.5	5.2	6.9	8.9	11.0	13.5	16.4	19.9	26.3
60°	0.0	1.9	3.8	5.6	7.5	9.8	12.1	15.2	18.4	25.0	32.0
57.5°	0.0	2.0	4.1	6.1	8.2	10.7	13.5	16.9	22.3	30.0	40.6
55°	0.0	2.2	4.3	6.5	8.8	11.5	14.9	18.6	26.7	35.8	50.5
52.5°	0.0	2.3	4.6	6.8	9.5	12.4	16.3	22.1	30.9	44.4	60.1
50°	0.0	2.4	4.9	7.2	10.1	13.5	17.7	25.7	36.0	52.8	73.2
47.5°	0.0	2.6	5.1	7.6	10.8	14.6	19.2	29.1	43.2	60.9	86.2
45°	0.0	2.7	5.3	8.1	11.4	15.6	22.1	32.5	50.1	72.2	98.8
42.5°	0.0	2.8	5.6	8.5	11.9	16.6	24.8	37.2	56.8	83.0	120.3
40°	0.0	2.9	5.8	8.9	12.6	17.6	27.4	42.7	64.1	93.4	142.3
37.5°	0.0	3.0	6.0	9.3	13.3	18.5	29.9	48.0	72.9	105.8	163.4
35°	0.0	3.1	6.2	9.6	14.0	20.1	32.2	53.0	81.2	123.7	186.1
32.5°	0.0	3.2	6.3	10.0	14.6	21.9	35.0	57.7	89.0	140.5	211.8
30°	0.0	3.3	6.5	10.3	15.2	23.6	38.7	62.6	96.3	156.3	235.9
27.5°	0.0	3.4	6.7	10.6	15.8	25.2	42.2	68.5	105.4	171.0	258.4
25°	0.0	3.4	6.8	10.9	16.3	26.7	45.4	74.0	117.4	187.7	279.3
22.5°	0.0	3.5	6.9	11.1	16.8	28.0	48.4	79.0	128.2	204.6	302.9
20°	0.0	3.6	7.1	11.3	17.2	29.2	51.0	83.4	138.1	219.8	324.2
17.5°	0.0	3.6	7.2	11.5	17.6	30.3	53.4	87.4	146.8	233.3	343.1
15°	0.0	3.7	7.2	11.7	17.9	31.2	55.4	90.9	154.4	245.1	359.6
12.5°	0.0	3.7	7.3	11.9	18.2	32.0	57.1	93.8	160.9	255.2	373.7
10°	0.0	3.7	7.4	12.0	18.4	32.6	58.6	96.3	166.2	263.4	385.3
7.5°	0.0	3.8	7.4	12.1	18.6	33.1	59.7	98.2	170.3	269.9	394.3
5°	0.0	3.8	7.5	12.1	18.7	33.5	60.5	99.5	173.3	274.5	400.8
2.5°	0.0	3.8	7.5	12.2	18.8	33.7	60.9	100.3	175.1	277.3	404.7
0°	0.0	3.8	7.5	12.2	18.8	33.8	61.1	100.6	175.7	278.2	406.0
-2.5°	0.0	3.8	7.5	12.2	18.8	33.7	60.9	100.3	175.1	277.3	404.7
-5°	0.0	3.8	7.5	12.1	18.7	33.5	60.5	99.5	173.3	274.5	400.8
-7.5°	0.0	3.8	7.4	12.1	18.6	33.1	59.7	98.2	170.3	269.9	394.3
-10°	0.0	3.7	7.4	12.0	18.4	32.6	58.6	96.3	166.2	263.4	385.3
-12.5°	0.0	3.7	7.3	11.9	18.2	32.0	57.1	93.8	160.9	255.2	373.7
-15°	0.0	3.7	7.2	11.7	17.9	31.2	55.4	90.9	154.4	245.1	359.6
-17.5°	0.0	3.6	7.2	11.5	17.6	30.3	53.4	87.4	146.8	233.3	343.1
-20°	0.0	3.6	7.1	11.3	17.2	29.2	51.0	83.4	138.1	219.8	324.2



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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	3.5	6.9	11.1	16.8	28.0	48.4	79.0	128.2	204.6	302.9
-25°	0.0	3.4	6.8	10.9	16.3	26.7	45.4	74.0	117.4	187.7	279.3
-27.5°	0.0	3.4	6.7	10.6	15.8	25.2	42.2	68.5	105.4	171.0	258.4
-30°	0.0	3.3	6.5	10.3	15.2	23.6	38.7	62.6	96.3	156.3	235.9
-32.5°	0.0	3.2	6.3	10.0	14.6	21.9	35.0	57.7	89.0	140.5	211.8
-35°	0.0	3.1	6.2	9.6	14.0	20.1	32.2	53.0	81.2	123.7	186.1
-37.5°	0.0	3.0	6.0	9.3	13.3	18.5	29.9	48.0	72.9	105.8	163.4
-40°	0.0	2.9	5.8	8.9	12.6	17.6	27.4	42.7	64.1	93.4	142.3
-42.5°	0.0	2.8	5.6	8.5	11.9	16.6	24.8	37.2	56.8	83.0	120.3
-45°	0.0	2.7	5.3	8.1	11.4	15.6	22.1	32.5	50.1	72.2	98.8
-47.5°	0.0	2.6	5.1	7.6	10.8	14.6	19.2	29.1	43.2	60.9	86.2
-50°	0.0	2.4	4.9	7.2	10.1	13.5	17.7	25.7	36.0	52.8	73.2
-52.5°	0.0	2.3	4.6	6.8	9.5	12.4	16.3	22.1	30.9	44.4	60.1
-55°	0.0	2.2	4.3	6.5	8.8	11.5	14.9	18.6	26.7	35.8	50.5
-57.5°	0.0	2.0	4.1	6.1	8.2	10.7	13.5	16.9	22.3	30.0	40.6
-60°	0.0	1.9	3.8	5.6	7.5	9.8	12.1	15.2	18.4	25.0	32.0
-62.5°	0.0	1.8	3.5	5.2	6.9	8.9	11.0	13.5	16.4	19.9	26.3
-65°	0.0	1.6	3.2	4.8	6.3	8.0	9.9	11.8	14.3	17.0	20.5
-67.5°	0.0	1.5	2.9	4.3	5.7	7.1	8.8	10.5	12.3	14.6	17.0
-70°	0.0	1.3	2.6	3.9	5.1	6.4	7.6	9.2	10.7	12.3	14.3
-72.5°	0.0	1.1	2.3	3.4	4.5	5.6	6.7	7.9	9.2	10.5	11.8
-75°	0.0	1.0	2.0	2.9	3.9	4.9	5.8	6.7	7.6	8.8	9.9
-77.5°	0.0	0.8	1.6	2.5	3.3	4.1	4.9	5.6	6.4	7.1	8.0
-80°	0.0	0.7	1.3	2.0	2.6	3.3	3.9	4.5	5.1	5.7	6.3
-82.5°	0.0	0.5	1.0	1.5	2.0	2.5	2.9	3.4	3.9	4.3	4.8
-85°	0.0	0.3	0.7	1.0	1.3	1.6	2.0	2.3	2.6	2.9	3.2
-87.5°	0.0	0.2	0.3	0.5	0.7	0.8	1.0	1.1	1.3	1.5	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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 CATALOG NUMBER: EPH-LS-08-0320N-57-80-5S-HEG

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	1.9	2.0	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0
85°	3.5	3.8	4.1	4.3	4.6	4.9	5.1	5.3	5.6	5.8	6.0
82.5°	5.2	5.6	6.1	6.5	6.8	7.2	7.6	8.1	8.5	8.9	9.3
80°	6.9	7.5	8.2	8.8	9.5	10.1	10.8	11.4	11.9	12.6	13.3
77.5°	8.9	9.8	10.7	11.5	12.4	13.5	14.6	15.6	16.6	17.6	18.5
75°	11.0	12.1	13.5	14.9	16.3	17.7	19.2	22.1	24.8	27.4	29.9
72.5°	13.5	15.2	16.9	18.6	22.1	25.7	29.1	32.5	37.2	42.7	48.0
70°	16.4	18.4	22.3	26.7	30.9	36.0	43.2	50.1	56.8	64.1	72.9
67.5°	19.9	25.0	30.0	35.8	44.4	52.8	60.9	72.2	83.0	93.4	105.8
65°	26.3	32.0	40.6	50.5	60.1	73.2	86.2	98.8	120.3	142.3	163.4
62.5°	32.7	43.1	54.2	66.8	82.0	96.9	120.9	147.4	172.8	205.0	236.8
60°	43.1	55.4	70.3	87.4	107.2	138.1	168.0	204.6	242.6	279.3	322.7
57.5°	54.2	70.3	89.2	114.1	148.4	184.1	228.4	271.2	321.0	370.5	420.4
55°	66.8	87.4	114.1	151.9	193.6	242.7	293.5	351.2	407.1	472.4	535.0
52.5°	82.0	107.2	148.4	193.6	247.5	305.6	369.4	437.0	510.1	583.4	661.5
50°	96.9	138.1	184.1	242.7	305.6	375.6	452.1	532.9	618.9	706.2	796.6
47.5°	120.9	168.0	228.4	293.5	369.4	452.1	540.6	636.8	733.3	838.0	940.0
45°	147.4	204.6	271.2	351.2	437.0	532.9	636.8	742.4	858.9	968.3	1062.0
42.5°	172.8	242.6	321.0	407.1	510.1	618.9	733.3	858.9	977.5	1080.6	1149.1
40°	205.0	279.3	370.5	472.4	583.4	706.2	838.0	968.3	1080.6	1153.3	1200.6
37.5°	236.8	322.7	420.4	535.0	661.5	796.6	940.0	1062.0	1149.1	1200.6	1326.3
35°	266.9	364.0	475.4	599.8	736.0	887.6	1025.1	1136.4	1191.9	1314.8	1548.0
32.5°	299.6	403.0	527.4	665.2	815.5	970.5	1105.2	1174.8	1280.6	1472.6	1934.3
30°	333.0	447.1	578.6	726.8	891.3	1041.0	1149.4	1224.3	1381.5	1819.0	3065.8
27.5°	364.0	488.9	631.5	790.1	960.2	1107.0	1181.3	1313.1	1629.5	2404.5	4542.9
25°	392.7	527.4	680.4	850.7	1016.9	1143.8	1223.8	1395.9	1915.8	3701.2	5865.4
22.5°	421.7	562.9	725.2	906.3	1069.0	1169.1	1294.7	1615.7	2549.4	4901.1	7078.8
20°	450.6	599.8	769.0	955.4	1116.4	1192.1	1359.3	1840.2	3572.2	5936.4	8116.4
17.5°	476.4	632.7	810.1	994.2	1139.4	1228.3	1438.0	2041.7	4492.7	6870.4	9018.8
15°	498.9	661.5	846.0	1028.1	1156.0	1275.1	1601.6	2711.3	5277.0	7671.3	9819.8
12.5°	518.0	686.0	876.7	1057.1	1170.2	1315.1	1741.7	3354.3	5932.5	8307.8	10539.2
10°	533.8	706.2	902.0	1081.0	1181.9	1348.2	1857.6	3886.8	6476.1	8836.7	11138.2
7.5°	546.1	722.0	921.8	1099.7	1191.0	1374.1	1948.6	4305.0	6903.7	9253.3	11611.0
5°	554.9	733.3	935.9	1113.1	1197.6	1392.7	2013.9	4606.0	7211.7	9553.7	11952.5
2.5°	560.2	740.1	944.5	1121.2	1201.6	1404.0	2053.3	4787.5	7397.6	9735.2	12158.9
0°	562.0	742.4	947.3	1123.9	1202.9	1407.7	2066.5	4848.1	7459.7	9795.9	12228.0
-2.5°	560.2	740.1	944.5	1121.2	1201.6	1404.0	2053.3	4787.5	7397.6	9735.2	12158.9
-5°	554.9	733.3	935.9	1113.1	1197.6	1392.7	2013.9	4606.0	7211.7	9553.7	11952.5
-7.5°	546.1	722.0	921.8	1099.7	1191.0	1374.1	1948.6	4305.0	6903.7	9253.3	11611.0
-10°	533.8	706.2	902.0	1081.0	1181.9	1348.2	1857.6	3886.8	6476.1	8836.7	11138.2
-12.5°	518.0	686.0	876.7	1057.1	1170.2	1315.1	1741.7	3354.3	5932.5	8307.8	10539.2
-15°	498.9	661.5	846.0	1028.1	1156.0	1275.1	1601.6	2711.3	5277.0	7671.3	9819.8
-17.5°	476.4	632.7	810.1	994.2	1139.4	1228.3	1438.0	2041.7	4492.7	6870.4	9018.8
-20°	450.6	599.8	769.0	955.4	1116.4	1192.1	1359.3	1840.2	3572.2	5936.4	8116.4



REPORT NUMBER: P731232 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	421.7	562.9	725.2	906.3	1069.0	1169.1	1294.7	1615.7	2549.4	4901.1	7078.8
-25°	392.7	527.4	680.4	850.7	1016.9	1143.8	1223.8	1395.9	1915.8	3701.2	5865.4
-27.5°	364.0	488.9	631.5	790.1	960.2	1107.0	1181.3	1313.1	1629.5	2404.5	4542.9
-30°	333.0	447.1	578.6	726.8	891.3	1041.0	1149.4	1224.3	1381.5	1819.0	3065.8
-32.5°	299.6	403.0	527.4	665.2	815.5	970.5	1105.2	1174.8	1280.6	1472.6	1934.3
-35°	266.9	364.0	475.4	599.8	736.0	887.6	1025.1	1136.4	1191.9	1314.8	1548.0
-37.5°	236.8	322.7	420.4	535.0	661.5	796.6	940.0	1062.0	1149.1	1200.6	1326.3
-40°	205.0	279.3	370.5	472.4	583.4	706.2	838.0	968.3	1080.6	1153.3	1200.6
-42.5°	172.8	242.6	321.0	407.1	510.1	618.9	733.3	858.9	977.5	1080.6	1149.1
-45°	147.4	204.6	271.2	351.2	437.0	532.9	636.8	742.4	858.9	968.3	1062.0
-47.5°	120.9	168.0	228.4	293.5	369.4	452.1	540.6	636.8	733.3	838.0	940.0
-50°	96.9	138.1	184.1	242.7	305.6	375.6	452.1	532.9	618.9	706.2	796.6
-52.5°	82.0	107.2	148.4	193.6	247.5	305.6	369.4	437.0	510.1	583.4	661.5
-55°	66.8	87.4	114.1	151.9	193.6	242.7	293.5	351.2	407.1	472.4	535.0
-57.5°	54.2	70.3	89.2	114.1	148.4	184.1	228.4	271.2	321.0	370.5	420.4
-60°	43.1	55.4	70.3	87.4	107.2	138.1	168.0	204.6	242.6	279.3	322.7
-62.5°	32.7	43.1	54.2	66.8	82.0	96.9	120.9	147.4	172.8	205.0	236.8
-65°	26.3	32.0	40.6	50.5	60.1	73.2	86.2	98.8	120.3	142.3	163.4
-67.5°	19.9	25.0	30.0	35.8	44.4	52.8	60.9	72.2	83.0	93.4	105.8
-70°	16.4	18.4	22.3	26.7	30.9	36.0	43.2	50.1	56.8	64.1	72.9
-72.5°	13.5	15.2	16.9	18.6	22.1	25.7	29.1	32.5	37.2	42.7	48.0
-75°	11.0	12.1	13.5	14.9	16.3	17.7	19.2	22.1	24.8	27.4	29.9
-77.5°	8.9	9.8	10.7	11.5	12.4	13.5	14.6	15.6	16.6	17.6	18.5
-80°	6.9	7.5	8.2	8.8	9.5	10.1	10.8	11.4	11.9	12.6	13.3
-82.5°	5.2	5.6	6.1	6.5	6.8	7.2	7.6	8.1	8.5	8.9	9.3
-85°	3.5	3.8	4.1	4.3	4.6	4.9	5.1	5.3	5.6	5.8	6.0
-87.5°	1.8	1.9	2.0	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0
-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: P731232 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-5S-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°	3.1	3.2	3.3	3.4	3.4	3.5	3.6	3.6	3.7	3.7	3.7
85°	6.2	6.3	6.5	6.7	6.8	6.9	7.1	7.2	7.2	7.3	7.4
82.5°	9.6	10.0	10.3	10.6	10.9	11.1	11.3	11.5	11.7	11.9	12.0
80°	14.0	14.6	15.2	15.8	16.3	16.8	17.2	17.6	17.9	18.2	18.4
77.5°	20.1	21.9	23.6	25.2	26.7	28.0	29.2	30.3	31.2	32.0	32.6
75°	32.2	35.0	38.7	42.2	45.4	48.4	51.0	53.4	55.4	57.1	58.6
72.5°	53.0	57.7	62.6	68.5	74.0	79.0	83.4	87.4	90.9	93.8	96.3
70°	81.2	89.0	96.3	105.4	117.4	128.2	138.1	146.8	154.4	160.9	166.2
67.5°	123.7	140.5	156.3	171.0	187.7	204.6	219.8	233.3	245.1	255.2	263.4
65°	186.1	211.8	235.9	258.4	279.3	302.9	324.2	343.1	359.6	373.7	385.3
62.5°	266.9	299.6	333.0	364.0	392.7	421.7	450.6	476.4	498.9	518.0	533.8
60°	364.0	403.0	447.1	488.9	527.4	562.9	599.8	632.7	661.5	686.0	706.2
57.5°	475.4	527.4	578.6	631.5	680.4	725.2	769.0	810.1	846.0	876.7	902.0
55°	599.8	665.2	726.8	790.1	850.7	906.3	955.4	994.2	1028.1	1057.1	1081.0
52.5°	736.0	815.5	891.3	960.2	1016.9	1069.0	1116.4	1139.4	1156.0	1170.2	1181.9
50°	887.6	970.5	1041.0	1107.0	1143.8	1169.1	1192.1	1228.3	1275.1	1315.1	1348.2
47.5°	1025.1	1105.2	1149.4	1181.3	1223.8	1294.7	1359.3	1438.0	1601.6	1741.7	1857.6
45°	1136.4	1174.8	1224.3	1313.1	1395.9	1615.7	1840.2	2041.7	2711.3	3354.3	3886.8
42.5°	1191.9	1280.6	1381.5	1629.5	1915.8	2549.4	3572.2	4492.7	5277.0	5932.5	6476.1
40°	1314.8	1472.6	1819.0	2404.5	3701.2	4901.1	5936.4	6870.4	7671.3	8307.8	8836.7
37.5°	1548.0	1934.3	3065.8	4542.9	5865.4	7078.8	8116.4	9018.8	9819.8	10539.2	11138.2
35°	1973.0	3400.2	5043.1	6521.4	7867.7	9032.2	10118.4	11132.8	12034.9	12895.4	13635.6
32.5°	3400.2	5204.9	6853.6	8324.9	9656.8	10950.3	12152.6	13384.8	14493.8	15618.0	16700.2
30°	5043.1	6853.6	8478.6	9980.9	11459.5	12934.3	14400.6	15999.1	17611.1	19196.7	21014.1
27.5°	6521.4	8324.9	9980.9	11631.0	13336.7	15037.1	17149.2	19309.0	21997.2	24355.2	26385.4
25°	7867.7	9656.8	11459.5	13336.7	15319.2	17735.4	20711.1	23933.6	26902.7	29530.1	31749.8
22.5°	9032.2	10950.3	12934.3	15037.1	17735.4	21185.1	24935.0	28482.7	31709.0	34564.9	37156.4
20°	10118.4	12152.6	14400.6	17149.2	20711.1	24935.0	29018.6	32827.2	36381.4	39933.4	43121.4
17.5°	11132.8	13384.8	15999.1	19309.0	23933.6	28482.7	32827.2	37060.3	41373.1	45856.7	49953.2
15°	12034.9	14493.8	17611.1	21997.2	26902.7	31709.0	36381.4	41373.1	46795.0	52263.8	57626.6
12.5°	12895.4	15618.0	19196.7	24355.2	29530.1	34564.9	39933.4	45856.7	52263.8	58929.1	63537.2
10°	13635.6	16700.2	21014.1	26385.4	31749.8	37156.4	43121.4	49953.2	57626.6	63537.2	67969.1
7.5°	14221.0	17558.5	22460.6	28008.1	33529.2	39395.4	46123.4	53870.3	61420.2	67076.1	70658.6
5°	14644.7	18181.0	23512.4	29192.2	34833.4	41046.1	48353.7	56842.3	63987.6	69134.8	72290.2
2.5°	14901.1	18558.4	24151.4	29913.3	35630.2	42058.8	49730.0	58691.3	65604.1	70275.3	73166.6
0°	14987.0	18684.9	24365.7	30155.5	35898.2	42400.3	50195.5	59319.5	66157.1	70625.6	73466.4
-2.5°	14901.1	18558.4	24151.4	29913.3	35630.2	42058.8	49730.0	58691.3	65604.1	70275.3	73166.6
-5°	14644.7	18181.0	23512.4	29192.2	34833.4	41046.1	48353.7	56842.3	63987.6	69134.8	72290.2
-7.5°	14221.0	17558.5	22460.6	28008.1	33529.2	39395.4	46123.4	53870.3	61420.2	67076.1	70658.6
-10°	13635.6	16700.2	21014.1	26385.4	31749.8	37156.4	43121.4	49953.2	57626.6	63537.2	67969.1
-12.5°	12895.4	15618.0	19196.7	24355.2	29530.1	34564.9	39933.4	45856.7	52263.8	58929.1	63537.2
-15°	12034.9	14493.8	17611.1	21997.2	26902.7	31709.0	36381.4	41373.1	46795.0	52263.8	57626.6
-17.5°	11132.8	13384.8	15999.1	19309.0	23933.6	28482.7	32827.2	37060.3	41373.1	45856.7	49953.2
-20°	10118.4	12152.6	14400.6	17149.2	20711.1	24935.0	29018.6	32827.2	36381.4	39933.4	43121.4



REPORT NUMBER: P731232 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	9032.2	10950.3	12934.3	15037.1	17735.4	21185.1	24935.0	28482.7	31709.0	34564.9	37156.4
-25°	7867.7	9656.8	11459.5	13336.7	15319.2	17735.4	20711.1	23933.6	26902.7	29530.1	31749.8
-27.5°	6521.4	8324.9	9980.9	11631.0	13336.7	15037.1	17149.2	19309.0	21997.2	24355.2	26385.4
-30°	5043.1	6853.6	8478.6	9980.9	11459.5	12934.3	14400.6	15999.1	17611.1	19196.7	21014.1
-32.5°	3400.2	5204.9	6853.6	8324.9	9656.8	10950.3	12152.6	13384.8	14493.8	15618.0	16700.2
-35°	1973.0	3400.2	5043.1	6521.4	7867.7	9032.2	10118.4	11132.8	12034.9	12895.4	13635.6
-37.5°	1548.0	1934.3	3065.8	4542.9	5865.4	7078.8	8116.4	9018.8	9819.8	10539.2	11138.2
-40°	1314.8	1472.6	1819.0	2404.5	3701.2	4901.1	5936.4	6870.4	7671.3	8307.8	8836.7
-42.5°	1191.9	1280.6	1381.5	1629.5	1915.8	2549.4	3572.2	4492.7	5277.0	5932.5	6476.1
-45°	1136.4	1174.8	1224.3	1313.1	1395.9	1615.7	1840.2	2041.7	2711.3	3354.3	3886.8
-47.5°	1025.1	1105.2	1149.4	1181.3	1223.8	1294.7	1359.3	1438.0	1601.6	1741.7	1857.6
-50°	887.6	970.5	1041.0	1107.0	1143.8	1169.1	1192.1	1228.3	1275.1	1315.1	1348.2
-52.5°	736.0	815.5	891.3	960.2	1016.9	1069.0	1116.4	1139.4	1156.0	1170.2	1181.9
-55°	599.8	665.2	726.8	790.1	850.7	906.3	955.4	994.2	1028.1	1057.1	1081.0
-57.5°	475.4	527.4	578.6	631.5	680.4	725.2	769.0	810.1	846.0	876.7	902.0
-60°	364.0	403.0	447.1	488.9	527.4	562.9	599.8	632.7	661.5	686.0	706.2
-62.5°	266.9	299.6	333.0	364.0	392.7	421.7	450.6	476.4	498.9	518.0	533.8
-65°	186.1	211.8	235.9	258.4	279.3	302.9	324.2	343.1	359.6	373.7	385.3
-67.5°	123.7	140.5	156.3	171.0	187.7	204.6	219.8	233.3	245.1	255.2	263.4
-70°	81.2	89.0	96.3	105.4	117.4	128.2	138.1	146.8	154.4	160.9	166.2
-72.5°	53.0	57.7	62.6	68.5	74.0	79.0	83.4	87.4	90.9	93.8	96.3
-75°	32.2	35.0	38.7	42.2	45.4	48.4	51.0	53.4	55.4	57.1	58.6
-77.5°	20.1	21.9	23.6	25.2	26.7	28.0	29.2	30.3	31.2	32.0	32.6
-80°	14.0	14.6	15.2	15.8	16.3	16.8	17.2	17.6	17.9	18.2	18.4
-82.5°	9.6	10.0	10.3	10.6	10.9	11.1	11.3	11.5	11.7	11.9	12.0
-85°	6.2	6.3	6.5	6.7	6.8	6.9	7.1	7.2	7.2	7.3	7.4
-87.5°	3.1	3.2	3.3	3.4	3.4	3.5	3.6	3.6	3.7	3.7	3.7
-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: P731232 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-5S-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°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.7	3.7	3.7	3.6
85°	7.4	7.5	7.5	7.5	7.5	7.5	7.4	7.4	7.3	7.2	7.2
82.5°	12.1	12.1	12.2	12.2	12.2	12.1	12.1	12.0	11.9	11.7	11.5
80°	18.6	18.7	18.8	18.8	18.8	18.7	18.6	18.4	18.2	17.9	17.6
77.5°	33.1	33.5	33.7	33.8	33.7	33.5	33.1	32.6	32.0	31.2	30.3
75°	59.7	60.5	60.9	61.1	60.9	60.5	59.7	58.6	57.1	55.4	53.4
72.5°	98.2	99.5	100.3	100.6	100.3	99.5	98.2	96.3	93.8	90.9	87.4
70°	170.3	173.3	175.1	175.7	175.1	173.3	170.3	166.2	160.9	154.4	146.8
67.5°	269.9	274.5	277.3	278.2	277.3	274.5	269.9	263.4	255.2	245.1	233.3
65°	394.3	400.8	404.7	406.0	404.7	400.8	394.3	385.3	373.7	359.6	343.1
62.5°	546.1	554.9	560.2	562.0	560.2	554.9	546.1	533.8	518.0	498.9	476.4
60°	722.0	733.3	740.1	742.4	740.1	733.3	722.0	706.2	686.0	661.5	632.7
57.5°	921.8	935.9	944.5	947.3	944.5	935.9	921.8	902.0	876.7	846.0	810.1
55°	1099.7	1113.1	1121.2	1123.9	1121.2	1113.1	1099.7	1081.0	1057.1	1028.1	994.2
52.5°	1191.0	1197.6	1201.6	1202.9	1201.6	1197.6	1191.0	1181.9	1170.2	1156.0	1139.4
50°	1374.1	1392.7	1404.0	1407.7	1404.0	1392.7	1374.1	1348.2	1315.1	1275.1	1228.3
47.5°	1948.6	2013.9	2053.3	2066.5	2053.3	2013.9	1948.6	1857.6	1741.7	1601.6	1438.0
45°	4305.0	4606.0	4787.5	4848.1	4787.5	4606.0	4305.0	3886.8	3354.3	2711.3	2041.7
42.5°	6903.7	7211.7	7397.6	7459.7	7397.6	7211.7	6903.7	6476.1	5932.5	5277.0	4492.7
40°	9253.3	9553.7	9735.2	9795.9	9735.2	9553.7	9253.3	8836.7	8307.8	7671.3	6870.4
37.5°	11611.0	11952.5	12158.9	12228.0	12158.9	11952.5	11611.0	11138.2	10539.2	9819.8	9018.8
35°	14221.0	14644.7	14901.1	14987.0	14901.1	14644.7	14221.0	13635.6	12895.4	12034.9	11132.8
32.5°	17558.5	18181.0	18558.4	18684.9	18558.4	18181.0	17558.5	16700.2	15618.0	14493.8	13384.8
30°	22460.6	23512.4	24151.4	24365.7	24151.4	23512.4	22460.6	21014.1	19196.7	17611.1	15999.1
27.5°	28008.1	29192.2	29913.3	30155.5	29913.3	29192.2	28008.1	26385.4	24355.2	21997.2	19309.0
25°	33529.2	34833.4	35630.2	35898.2	35630.2	34833.4	33529.2	31749.8	29530.1	26902.7	23933.6
22.5°	39395.4	41046.1	42058.8	42400.3	42058.8	41046.1	39395.4	37156.4	34564.9	31709.0	28482.7
20°	46123.4	48353.7	49730.0	50195.5	49730.0	48353.7	46123.4	43121.4	39933.4	36381.4	32827.2
17.5°	53870.3	56842.3	58691.3	59319.5	58691.3	56842.3	53870.3	49953.2	45856.7	41373.1	37060.3
15°	61420.2	63987.6	65604.1	66157.1	65604.1	63987.6	61420.2	57626.6	52263.8	46795.0	41373.1
12.5°	67076.1	69134.8	70275.3	70625.6	70275.3	69134.8	67076.1	63537.2	58929.1	52263.8	45856.7
10°	70658.6	72290.2	73166.6	73466.4	73166.6	72290.2	70658.6	67969.1	63537.2	57626.6	49953.2
7.5°	72884.5	74403.4	75315.8	75637.3	75315.8	74403.4	72884.5	70658.6	67076.1	61420.2	53870.3
5°	74403.4	75982.6	76962.3	77261.1	76962.3	75982.6	74403.4	72290.2	69134.8	63987.6	56842.3
2.5°	75315.8	76962.3	77433.1	77417.1	77433.1	76962.3	75315.8	73166.6	70275.3	65604.1	58691.3
0°	75637.3	77261.1	77417.1	77118.3	77417.1	77261.1	75637.3	73466.4	70625.6	66157.1	59319.5
-2.5°	75315.8	76962.3	77433.1	77417.1	77433.1	76962.3	75315.8	73166.6	70275.3	65604.1	58691.3
-5°	74403.4	75982.6	76962.3	77261.1	76962.3	75982.6	74403.4	72290.2	69134.8	63987.6	56842.3
-7.5°	72884.5	74403.4	75315.8	75637.3	75315.8	74403.4	72884.5	70658.6	67076.1	61420.2	53870.3
-10°	70658.6	72290.2	73166.6	73466.4	73166.6	72290.2	70658.6	67969.1	63537.2	57626.6	49953.2
-12.5°	67076.1	69134.8	70275.3	70625.6	70275.3	69134.8	67076.1	63537.2	58929.1	52263.8	45856.7
-15°	61420.2	63987.6	65604.1	66157.1	65604.1	63987.6	61420.2	57626.6	52263.8	46795.0	41373.1
-17.5°	53870.3	56842.3	58691.3	59319.5	58691.3	56842.3	53870.3	49953.2	45856.7	41373.1	37060.3
-20°	46123.4	48353.7	49730.0	50195.5	49730.0	48353.7	46123.4	43121.4	39933.4	36381.4	32827.2



REPORT NUMBER: P731232 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	39395.4	41046.1	42058.8	42400.3	42058.8	41046.1	39395.4	37156.4	34564.9	31709.0	28482.7
-25°	33529.2	34833.4	35630.2	35898.2	35630.2	34833.4	33529.2	31749.8	29530.1	26902.7	23933.6
-27.5°	28008.1	29192.2	29913.3	30155.5	29913.3	29192.2	28008.1	26385.4	24355.2	21997.2	19309.0
-30°	22460.6	23512.4	24151.4	24365.7	24151.4	23512.4	22460.6	21014.1	19196.7	17611.1	15999.1
-32.5°	17558.5	18181.0	18558.4	18684.9	18558.4	18181.0	17558.5	16700.2	15618.0	14493.8	13384.8
-35°	14221.0	14644.7	14901.1	14987.0	14901.1	14644.7	14221.0	13635.6	12895.4	12034.9	11132.8
-37.5°	11611.0	11952.5	12158.9	12228.0	12158.9	11952.5	11611.0	11138.2	10539.2	9819.8	9018.8
-40°	9253.3	9553.7	9735.2	9795.9	9735.2	9553.7	9253.3	8836.7	8307.8	7671.3	6870.4
-42.5°	6903.7	7211.7	7397.6	7459.7	7397.6	7211.7	6903.7	6476.1	5932.5	5277.0	4492.7
-45°	4305.0	4606.0	4787.5	4848.1	4787.5	4606.0	4305.0	3886.8	3354.3	2711.3	2041.7
-47.5°	1948.6	2013.9	2053.3	2066.5	2053.3	2013.9	1948.6	1857.6	1741.7	1601.6	1438.0
-50°	1374.1	1392.7	1404.0	1407.7	1404.0	1392.7	1374.1	1348.2	1315.1	1275.1	1228.3
-52.5°	1191.0	1197.6	1201.6	1202.9	1201.6	1197.6	1191.0	1181.9	1170.2	1156.0	1139.4
-55°	1099.7	1113.1	1121.2	1123.9	1121.2	1113.1	1099.7	1081.0	1057.1	1028.1	994.2
-57.5°	921.8	935.9	944.5	947.3	944.5	935.9	921.8	902.0	876.7	846.0	810.1
-60°	722.0	733.3	740.1	742.4	740.1	733.3	722.0	706.2	686.0	661.5	632.7
-62.5°	546.1	554.9	560.2	562.0	560.2	554.9	546.1	533.8	518.0	498.9	476.4
-65°	394.3	400.8	404.7	406.0	404.7	400.8	394.3	385.3	373.7	359.6	343.1
-67.5°	269.9	274.5	277.3	278.2	277.3	274.5	269.9	263.4	255.2	245.1	233.3
-70°	170.3	173.3	175.1	175.7	175.1	173.3	170.3	166.2	160.9	154.4	146.8
-72.5°	98.2	99.5	100.3	100.6	100.3	99.5	98.2	96.3	93.8	90.9	87.4
-75°	59.7	60.5	60.9	61.1	60.9	60.5	59.7	58.6	57.1	55.4	53.4
-77.5°	33.1	33.5	33.7	33.8	33.7	33.5	33.1	32.6	32.0	31.2	30.3
-80°	18.6	18.7	18.8	18.8	18.8	18.7	18.6	18.4	18.2	17.9	17.6
-82.5°	12.1	12.1	12.2	12.2	12.2	12.1	12.1	12.0	11.9	11.7	11.5
-85°	7.4	7.5	7.5	7.5	7.5	7.5	7.4	7.4	7.3	7.2	7.2
-87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.7	3.7	3.7	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



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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°	3.6	3.5	3.4	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7
85°	7.1	6.9	6.8	6.7	6.5	6.3	6.2	6.0	5.8	5.6	5.3
82.5°	11.3	11.1	10.9	10.6	10.3	10.0	9.6	9.3	8.9	8.5	8.1
80°	17.2	16.8	16.3	15.8	15.2	14.6	14.0	13.3	12.6	11.9	11.4
77.5°	29.2	28.0	26.7	25.2	23.6	21.9	20.1	18.5	17.6	16.6	15.6
75°	51.0	48.4	45.4	42.2	38.7	35.0	32.2	29.9	27.4	24.8	22.1
72.5°	83.4	79.0	74.0	68.5	62.6	57.7	53.0	48.0	42.7	37.2	32.5
70°	138.1	128.2	117.4	105.4	96.3	89.0	81.2	72.9	64.1	56.8	50.1
67.5°	219.8	204.6	187.7	171.0	156.3	140.5	123.7	105.8	93.4	83.0	72.2
65°	324.2	302.9	279.3	258.4	235.9	211.8	186.1	163.4	142.3	120.3	98.8
62.5°	450.6	421.7	392.7	364.0	333.0	299.6	266.9	236.8	205.0	172.8	147.4
60°	599.8	562.9	527.4	488.9	447.1	403.0	364.0	322.7	279.3	242.6	204.6
57.5°	769.0	725.2	680.4	631.5	578.6	527.4	475.4	420.4	370.5	321.0	271.2
55°	955.4	906.3	850.7	790.1	726.8	665.2	599.8	535.0	472.4	407.1	351.2
52.5°	1116.4	1069.0	1016.9	960.2	891.3	815.5	736.0	661.5	583.4	510.1	437.0
50°	1192.1	1169.1	1143.8	1107.0	1041.0	970.5	887.6	796.6	706.2	618.9	532.9
47.5°	1359.3	1294.7	1223.8	1181.3	1149.4	1105.2	1025.1	940.0	838.0	733.3	636.8
45°	1840.2	1615.7	1395.9	1313.1	1224.3	1174.8	1136.4	1062.0	968.3	858.9	742.4
42.5°	3572.2	2549.4	1915.8	1629.5	1381.5	1280.6	1191.9	1149.1	1080.6	977.5	858.9
40°	5936.4	4901.1	3701.2	2404.5	1819.0	1472.6	1314.8	1200.6	1153.3	1080.6	968.3
37.5°	8116.4	7078.8	5865.4	4542.9	3065.8	1934.3	1548.0	1326.3	1200.6	1149.1	1062.0
35°	10118.4	9032.2	7867.7	6521.4	5043.1	3400.2	1973.0	1548.0	1314.8	1191.9	1136.4
32.5°	12152.6	10950.3	9656.8	8324.9	6853.6	5204.9	3400.2	1934.3	1472.6	1280.6	1174.8
30°	14400.6	12934.3	11459.5	9980.9	8478.6	6853.6	5043.1	3065.8	1819.0	1381.5	1224.3
27.5°	17149.2	15037.1	13336.7	11631.0	9980.9	8324.9	6521.4	4542.9	2404.5	1629.5	1313.1
25°	20711.1	17735.4	15319.2	13336.7	11459.5	9656.8	7867.7	5865.4	3701.2	1915.8	1395.9
22.5°	24935.0	21185.1	17735.4	15037.1	12934.3	10950.3	9032.2	7078.8	4901.1	2549.4	1615.7
20°	29018.6	24935.0	20711.1	17149.2	14400.6	12152.6	10118.4	8116.4	5936.4	3572.2	1840.2
17.5°	32827.2	28482.7	23933.6	19309.0	15999.1	13384.8	11132.8	9018.8	6870.4	4492.7	2041.7
15°	36381.4	31709.0	26902.7	21997.2	17611.1	14493.8	12034.9	9819.8	7671.3	5277.0	2711.3
12.5°	39933.4	34564.9	29530.1	24355.2	19196.7	15618.0	12895.4	10539.2	8307.8	5932.5	3354.3
10°	43121.4	37156.4	31749.8	26385.4	21014.1	16700.2	13635.6	11138.2	8836.7	6476.1	3886.8
7.5°	46123.4	39395.4	33529.2	28008.1	22460.6	17558.5	14221.0	11611.0	9253.3	6903.7	4305.0
5°	48353.7	41046.1	34833.4	29192.2	23512.4	18181.0	14644.7	11952.5	9553.7	7211.7	4606.0
2.5°	49730.0	42058.8	35630.2	29913.3	24151.4	18558.4	14901.1	12158.9	9735.2	7397.6	4787.5
0°	50195.5	42400.3	35898.2	30155.5	24365.7	18684.9	14987.0	12228.0	9795.9	7459.7	4848.1
-2.5°	49730.0	42058.8	35630.2	29913.3	24151.4	18558.4	14901.1	12158.9	9735.2	7397.6	4787.5
-5°	48353.7	41046.1	34833.4	29192.2	23512.4	18181.0	14644.7	11952.5	9553.7	7211.7	4606.0
-7.5°	46123.4	39395.4	33529.2	28008.1	22460.6	17558.5	14221.0	11611.0	9253.3	6903.7	4305.0
-10°	43121.4	37156.4	31749.8	26385.4	21014.1	16700.2	13635.6	11138.2	8836.7	6476.1	3886.8
-12.5°	39933.4	34564.9	29530.1	24355.2	19196.7	15618.0	12895.4	10539.2	8307.8	5932.5	3354.3
-15°	36381.4	31709.0	26902.7	21997.2	17611.1	14493.8	12034.9	9819.8	7671.3	5277.0	2711.3
-17.5°	32827.2	28482.7	23933.6	19309.0	15999.1	13384.8	11132.8	9018.8	6870.4	4492.7	2041.7
-20°	29018.6	24935.0	20711.1	17149.2	14400.6	12152.6	10118.4	8116.4	5936.4	3572.2	1840.2



REPORT NUMBER: P731232 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	24935.0	21185.1	17735.4	15037.1	12934.3	10950.3	9032.2	7078.8	4901.1	2549.4	1615.7
-25°	20711.1	17735.4	15319.2	13336.7	11459.5	9656.8	7867.7	5865.4	3701.2	1915.8	1395.9
-27.5°	17149.2	15037.1	13336.7	11631.0	9980.9	8324.9	6521.4	4542.9	2404.5	1629.5	1313.1
-30°	14400.6	12934.3	11459.5	9980.9	8478.6	6853.6	5043.1	3065.8	1819.0	1381.5	1224.3
-32.5°	12152.6	10950.3	9656.8	8324.9	6853.6	5204.9	3400.2	1934.3	1472.6	1280.6	1174.8
-35°	10118.4	9032.2	7867.7	6521.4	5043.1	3400.2	1973.0	1548.0	1314.8	1191.9	1136.4
-37.5°	8116.4	7078.8	5865.4	4542.9	3065.8	1934.3	1548.0	1326.3	1200.6	1149.1	1062.0
-40°	5936.4	4901.1	3701.2	2404.5	1819.0	1472.6	1314.8	1200.6	1153.3	1080.6	968.3
-42.5°	3572.2	2549.4	1915.8	1629.5	1381.5	1280.6	1191.9	1149.1	1080.6	977.5	858.9
-45°	1840.2	1615.7	1395.9	1313.1	1224.3	1174.8	1136.4	1062.0	968.3	858.9	742.4
-47.5°	1359.3	1294.7	1223.8	1181.3	1149.4	1105.2	1025.1	940.0	838.0	733.3	636.8
-50°	1192.1	1169.1	1143.8	1107.0	1041.0	970.5	887.6	796.6	706.2	618.9	532.9
-52.5°	1116.4	1069.0	1016.9	960.2	891.3	815.5	736.0	661.5	583.4	510.1	437.0
-55°	955.4	906.3	850.7	790.1	726.8	665.2	599.8	535.0	472.4	407.1	351.2
-57.5°	769.0	725.2	680.4	631.5	578.6	527.4	475.4	420.4	370.5	321.0	271.2
-60°	599.8	562.9	527.4	488.9	447.1	403.0	364.0	322.7	279.3	242.6	204.6
-62.5°	450.6	421.7	392.7	364.0	333.0	299.6	266.9	236.8	205.0	172.8	147.4
-65°	324.2	302.9	279.3	258.4	235.9	211.8	186.1	163.4	142.3	120.3	98.8
-67.5°	219.8	204.6	187.7	171.0	156.3	140.5	123.7	105.8	93.4	83.0	72.2
-70°	138.1	128.2	117.4	105.4	96.3	89.0	81.2	72.9	64.1	56.8	50.1
-72.5°	83.4	79.0	74.0	68.5	62.6	57.7	53.0	48.0	42.7	37.2	32.5
-75°	51.0	48.4	45.4	42.2	38.7	35.0	32.2	29.9	27.4	24.8	22.1
-77.5°	29.2	28.0	26.7	25.2	23.6	21.9	20.1	18.5	17.6	16.6	15.6
-80°	17.2	16.8	16.3	15.8	15.2	14.6	14.0	13.3	12.6	11.9	11.4
-82.5°	11.3	11.1	10.9	10.6	10.3	10.0	9.6	9.3	8.9	8.5	8.1
-85°	7.1	6.9	6.8	6.7	6.5	6.3	6.2	6.0	5.8	5.6	5.3
-87.5°	3.6	3.5	3.4	3.4	3.3	3.2	3.1	3.0	2.9	2.8	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: P731232 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-5S-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°	2.6	2.4	2.3	2.2	2.0	1.9	1.8	1.6	1.5	1.3	1.1
85°	5.1	4.9	4.6	4.3	4.1	3.8	3.5	3.2	2.9	2.6	2.3
82.5°	7.6	7.2	6.8	6.5	6.1	5.6	5.2	4.8	4.3	3.9	3.4
80°	10.8	10.1	9.5	8.8	8.2	7.5	6.9	6.3	5.7	5.1	4.5
77.5°	14.6	13.5	12.4	11.5	10.7	9.8	8.9	8.0	7.1	6.4	5.6
75°	19.2	17.7	16.3	14.9	13.5	12.1	11.0	9.9	8.8	7.6	6.7
72.5°	29.1	25.7	22.1	18.6	16.9	15.2	13.5	11.8	10.5	9.2	7.9
70°	43.2	36.0	30.9	26.7	22.3	18.4	16.4	14.3	12.3	10.7	9.2
67.5°	60.9	52.8	44.4	35.8	30.0	25.0	19.9	17.0	14.6	12.3	10.5
65°	86.2	73.2	60.1	50.5	40.6	32.0	26.3	20.5	17.0	14.3	11.8
62.5°	120.9	96.9	82.0	66.8	54.2	43.1	32.7	26.3	19.9	16.4	13.5
60°	168.0	138.1	107.2	87.4	70.3	55.4	43.1	32.0	25.0	18.4	15.2
57.5°	228.4	184.1	148.4	114.1	89.2	70.3	54.2	40.6	30.0	22.3	16.9
55°	293.5	242.7	193.6	151.9	114.1	87.4	66.8	50.5	35.8	26.7	18.6
52.5°	369.4	305.6	247.5	193.6	148.4	107.2	82.0	60.1	44.4	30.9	22.1
50°	452.1	375.6	305.6	242.7	184.1	138.1	96.9	73.2	52.8	36.0	25.7
47.5°	540.6	452.1	369.4	293.5	228.4	168.0	120.9	86.2	60.9	43.2	29.1
45°	636.8	532.9	437.0	351.2	271.2	204.6	147.4	98.8	72.2	50.1	32.5
42.5°	733.3	618.9	510.1	407.1	321.0	242.6	172.8	120.3	83.0	56.8	37.2
40°	838.0	706.2	583.4	472.4	370.5	279.3	205.0	142.3	93.4	64.1	42.7
37.5°	940.0	796.6	661.5	535.0	420.4	322.7	236.8	163.4	105.8	72.9	48.0
35°	1025.1	887.6	736.0	599.8	475.4	364.0	266.9	186.1	123.7	81.2	53.0
32.5°	1105.2	970.5	815.5	665.2	527.4	403.0	299.6	211.8	140.5	89.0	57.7
30°	1149.4	1041.0	891.3	726.8	578.6	447.1	333.0	235.9	156.3	96.3	62.6
27.5°	1181.3	1107.0	960.2	790.1	631.5	488.9	364.0	258.4	171.0	105.4	68.5
25°	1223.8	1143.8	1016.9	850.7	680.4	527.4	392.7	279.3	187.7	117.4	74.0
22.5°	1294.7	1169.1	1069.0	906.3	725.2	562.9	421.7	302.9	204.6	128.2	79.0
20°	1359.3	1192.1	1116.4	955.4	769.0	599.8	450.6	324.2	219.8	138.1	83.4
17.5°	1438.0	1228.3	1139.4	994.2	810.1	632.7	476.4	343.1	233.3	146.8	87.4
15°	1601.6	1275.1	1156.0	1028.1	846.0	661.5	498.9	359.6	245.1	154.4	90.9
12.5°	1741.7	1315.1	1170.2	1057.1	876.7	686.0	518.0	373.7	255.2	160.9	93.8
10°	1857.6	1348.2	1181.9	1081.0	902.0	706.2	533.8	385.3	263.4	166.2	96.3
7.5°	1948.6	1374.1	1191.0	1099.7	921.8	722.0	546.1	394.3	269.9	170.3	98.2
5°	2013.9	1392.7	1197.6	1113.1	935.9	733.3	554.9	400.8	274.5	173.3	99.5
2.5°	2053.3	1404.0	1201.6	1121.2	944.5	740.1	560.2	404.7	277.3	175.1	100.3
0°	2066.5	1407.7	1202.9	1123.9	947.3	742.4	562.0	406.0	278.2	175.7	100.6
-2.5°	2053.3	1404.0	1201.6	1121.2	944.5	740.1	560.2	404.7	277.3	175.1	100.3
-5°	2013.9	1392.7	1197.6	1113.1	935.9	733.3	554.9	400.8	274.5	173.3	99.5
-7.5°	1948.6	1374.1	1191.0	1099.7	921.8	722.0	546.1	394.3	269.9	170.3	98.2
-10°	1857.6	1348.2	1181.9	1081.0	902.0	706.2	533.8	385.3	263.4	166.2	96.3
-12.5°	1741.7	1315.1	1170.2	1057.1	876.7	686.0	518.0	373.7	255.2	160.9	93.8
-15°	1601.6	1275.1	1156.0	1028.1	846.0	661.5	498.9	359.6	245.1	154.4	90.9
-17.5°	1438.0	1228.3	1139.4	994.2	810.1	632.7	476.4	343.1	233.3	146.8	87.4
-20°	1359.3	1192.1	1116.4	955.4	769.0	599.8	450.6	324.2	219.8	138.1	83.4



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1294.7	1169.1	1069.0	906.3	725.2	562.9	421.7	302.9	204.6	128.2	79.0
-25°	1223.8	1143.8	1016.9	850.7	680.4	527.4	392.7	279.3	187.7	117.4	74.0
-27.5°	1181.3	1107.0	960.2	790.1	631.5	488.9	364.0	258.4	171.0	105.4	68.5
-30°	1149.4	1041.0	891.3	726.8	578.6	447.1	333.0	235.9	156.3	96.3	62.6
-32.5°	1105.2	970.5	815.5	665.2	527.4	403.0	299.6	211.8	140.5	89.0	57.7
-35°	1025.1	887.6	736.0	599.8	475.4	364.0	266.9	186.1	123.7	81.2	53.0
-37.5°	940.0	796.6	661.5	535.0	420.4	322.7	236.8	163.4	105.8	72.9	48.0
-40°	838.0	706.2	583.4	472.4	370.5	279.3	205.0	142.3	93.4	64.1	42.7
-42.5°	733.3	618.9	510.1	407.1	321.0	242.6	172.8	120.3	83.0	56.8	37.2
-45°	636.8	532.9	437.0	351.2	271.2	204.6	147.4	98.8	72.2	50.1	32.5
-47.5°	540.6	452.1	369.4	293.5	228.4	168.0	120.9	86.2	60.9	43.2	29.1
-50°	452.1	375.6	305.6	242.7	184.1	138.1	96.9	73.2	52.8	36.0	25.7
-52.5°	369.4	305.6	247.5	193.6	148.4	107.2	82.0	60.1	44.4	30.9	22.1
-55°	293.5	242.7	193.6	151.9	114.1	87.4	66.8	50.5	35.8	26.7	18.6
-57.5°	228.4	184.1	148.4	114.1	89.2	70.3	54.2	40.6	30.0	22.3	16.9
-60°	168.0	138.1	107.2	87.4	70.3	55.4	43.1	32.0	25.0	18.4	15.2
-62.5°	120.9	96.9	82.0	66.8	54.2	43.1	32.7	26.3	19.9	16.4	13.5
-65°	86.2	73.2	60.1	50.5	40.6	32.0	26.3	20.5	17.0	14.3	11.8
-67.5°	60.9	52.8	44.4	35.8	30.0	25.0	19.9	17.0	14.6	12.3	10.5
-70°	43.2	36.0	30.9	26.7	22.3	18.4	16.4	14.3	12.3	10.7	9.2
-72.5°	29.1	25.7	22.1	18.6	16.9	15.2	13.5	11.8	10.5	9.2	7.9
-75°	19.2	17.7	16.3	14.9	13.5	12.1	11.0	9.9	8.8	7.6	6.7
-77.5°	14.6	13.5	12.4	11.5	10.7	9.8	8.9	8.0	7.1	6.4	5.6
-80°	10.8	10.1	9.5	8.8	8.2	7.5	6.9	6.3	5.7	5.1	4.5
-82.5°	7.6	7.2	6.8	6.5	6.1	5.6	5.2	4.8	4.3	3.9	3.4
-85°	5.1	4.9	4.6	4.3	4.1	3.8	3.5	3.2	2.9	2.6	2.3
-87.5°	2.6	2.4	2.3	2.2	2.0	1.9	1.8	1.6	1.5	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	0.7	0.5	0.3	0.2	0.0
85°	2.0	1.6	1.3	1.0	0.7	0.3	0.0
82.5°	2.9	2.5	2.0	1.5	1.0	0.5	0.0
80°	3.9	3.3	2.6	2.0	1.3	0.7	0.0
77.5°	4.9	4.1	3.3	2.5	1.6	0.8	0.0
75°	5.8	4.9	3.9	2.9	2.0	1.0	0.0
72.5°	6.7	5.6	4.5	3.4	2.3	1.1	0.0
70°	7.6	6.4	5.1	3.9	2.6	1.3	0.0
67.5°	8.8	7.1	5.7	4.3	2.9	1.5	0.0
65°	9.9	8.0	6.3	4.8	3.2	1.6	0.0
62.5°	11.0	8.9	6.9	5.2	3.5	1.8	0.0
60°	12.1	9.8	7.5	5.6	3.8	1.9	0.0
57.5°	13.5	10.7	8.2	6.1	4.1	2.0	0.0
55°	14.9	11.5	8.8	6.5	4.3	2.2	0.0
52.5°	16.3	12.4	9.5	6.8	4.6	2.3	0.0
50°	17.7	13.5	10.1	7.2	4.9	2.4	0.0
47.5°	19.2	14.6	10.8	7.6	5.1	2.6	0.0
45°	22.1	15.6	11.4	8.1	5.3	2.7	0.0
42.5°	24.8	16.6	11.9	8.5	5.6	2.8	0.0
40°	27.4	17.6	12.6	8.9	5.8	2.9	0.0
37.5°	29.9	18.5	13.3	9.3	6.0	3.0	0.0
35°	32.2	20.1	14.0	9.6	6.2	3.1	0.0
32.5°	35.0	21.9	14.6	10.0	6.3	3.2	0.0
30°	38.7	23.6	15.2	10.3	6.5	3.3	0.0
27.5°	42.2	25.2	15.8	10.6	6.7	3.4	0.0
25°	45.4	26.7	16.3	10.9	6.8	3.4	0.0
22.5°	48.4	28.0	16.8	11.1	6.9	3.5	0.0
20°	51.0	29.2	17.2	11.3	7.1	3.6	0.0
17.5°	53.4	30.3	17.6	11.5	7.2	3.6	0.0
15°	55.4	31.2	17.9	11.7	7.2	3.7	0.0
12.5°	57.1	32.0	18.2	11.9	7.3	3.7	0.0
10°	58.6	32.6	18.4	12.0	7.4	3.7	0.0
7.5°	59.7	33.1	18.6	12.1	7.4	3.8	0.0
5°	60.5	33.5	18.7	12.1	7.5	3.8	0.0
2.5°	60.9	33.7	18.8	12.2	7.5	3.8	0.0
0°	61.1	33.8	18.8	12.2	7.5	3.8	0.0
-2.5°	60.9	33.7	18.8	12.2	7.5	3.8	0.0
-5°	60.5	33.5	18.7	12.1	7.5	3.8	0.0
-7.5°	59.7	33.1	18.6	12.1	7.4	3.8	0.0
-10°	58.6	32.6	18.4	12.0	7.4	3.7	0.0
-12.5°	57.1	32.0	18.2	11.9	7.3	3.7	0.0
-15°	55.4	31.2	17.9	11.7	7.2	3.7	0.0
-17.5°	53.4	30.3	17.6	11.5	7.2	3.6	0.0
-20°	51.0	29.2	17.2	11.3	7.1	3.6	0.0



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 CATALOG NUMBER: EPH-LS-08-0320N-57-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	48.4	28.0	16.8	11.1	6.9	3.5	0.0
-25°	45.4	26.7	16.3	10.9	6.8	3.4	0.0
-27.5°	42.2	25.2	15.8	10.6	6.7	3.4	0.0
-30°	38.7	23.6	15.2	10.3	6.5	3.3	0.0
-32.5°	35.0	21.9	14.6	10.0	6.3	3.2	0.0
-35°	32.2	20.1	14.0	9.6	6.2	3.1	0.0
-37.5°	29.9	18.5	13.3	9.3	6.0	3.0	0.0
-40°	27.4	17.6	12.6	8.9	5.8	2.9	0.0
-42.5°	24.8	16.6	11.9	8.5	5.6	2.8	0.0
-45°	22.1	15.6	11.4	8.1	5.3	2.7	0.0
-47.5°	19.2	14.6	10.8	7.6	5.1	2.6	0.0
-50°	17.7	13.5	10.1	7.2	4.9	2.4	0.0
-52.5°	16.3	12.4	9.5	6.8	4.6	2.3	0.0
-55°	14.9	11.5	8.8	6.5	4.3	2.2	0.0
-57.5°	13.5	10.7	8.2	6.1	4.1	2.0	0.0
-60°	12.1	9.8	7.5	5.6	3.8	1.9	0.0
-62.5°	11.0	8.9	6.9	5.2	3.5	1.8	0.0
-65°	9.9	8.0	6.3	4.8	3.2	1.6	0.0
-67.5°	8.8	7.1	5.7	4.3	2.9	1.5	0.0
-70°	7.6	6.4	5.1	3.9	2.6	1.3	0.0
-72.5°	6.7	5.6	4.5	3.4	2.3	1.1	0.0
-75°	5.8	4.9	3.9	2.9	2.0	1.0	0.0
-77.5°	4.9	4.1	3.3	2.5	1.6	0.8	0.0
-80°	3.9	3.3	2.6	2.0	1.3	0.7	0.0
-82.5°	2.9	2.5	2.0	1.5	1.0	0.5	0.0
-85°	2.0	1.6	1.3	1.0	0.7	0.3	0.0
-87.5°	1.0	0.8	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

