

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: P731265 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-57-80-2S-HEG**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731265 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-08-0530N-57-80-2S-HEG
Description: EPHEBUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 2S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

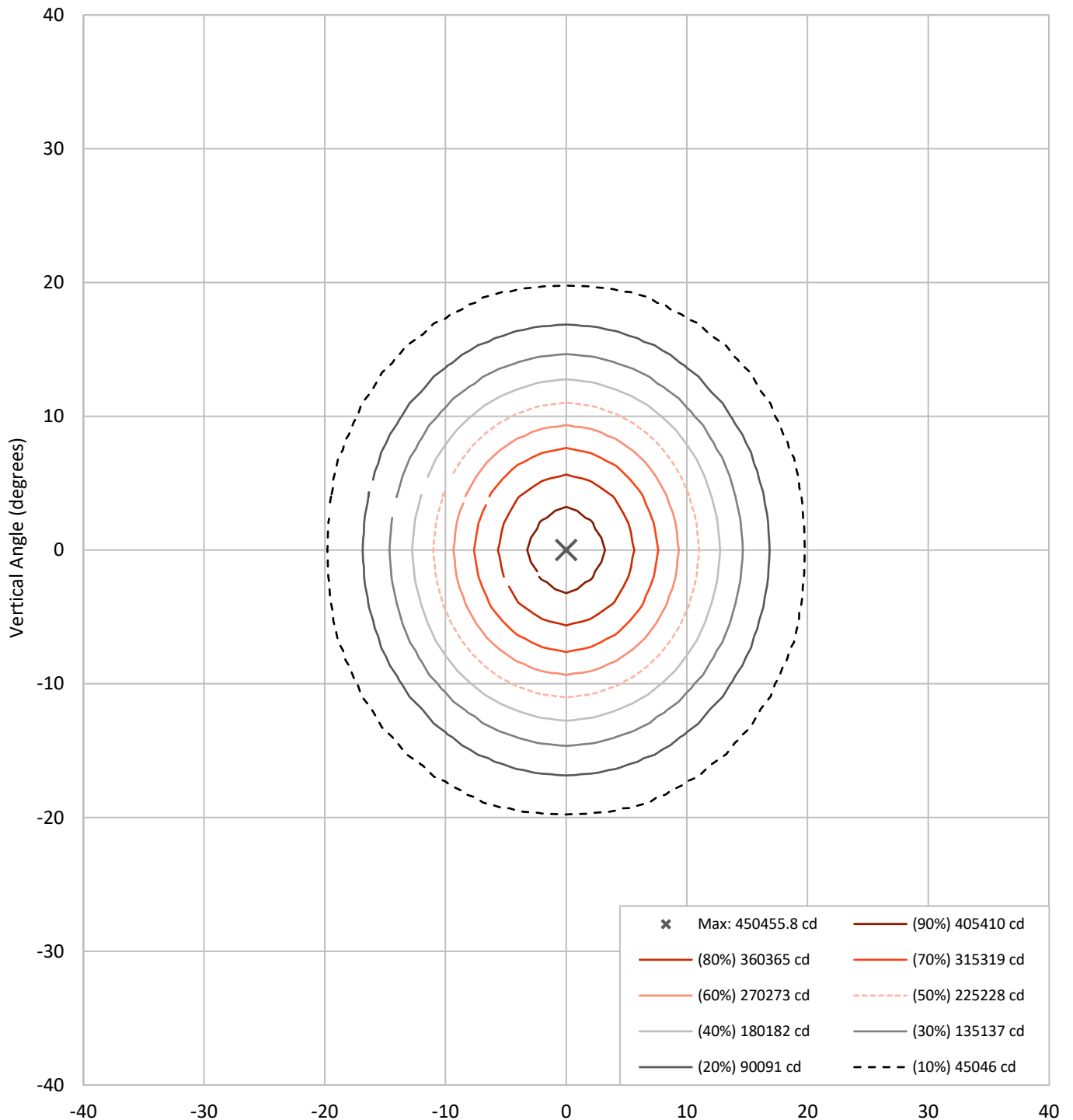
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	81141.3 lumens	Max Intensity:	450455.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	144.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	22°H x 22°V	Field Angle (10%):	39.6°H x 39.6°V
Beam Lumens:	35861.8 lumens	Field Lumens:	66603.9 lumens
Beam Efficiency:	44.2%	Field Efficiency:	82.1%

Input Watts (W): 561.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Candela Plot





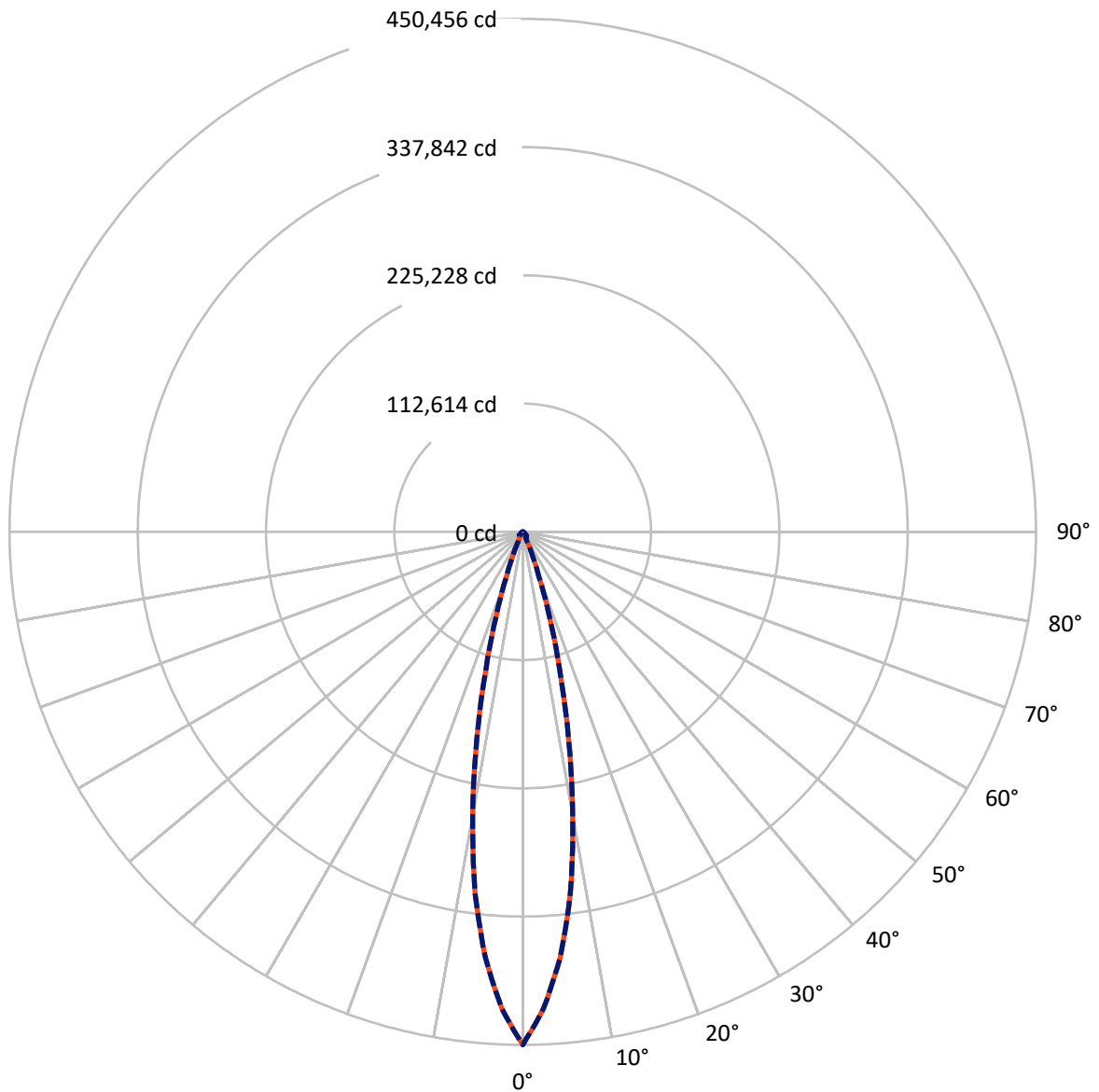
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Lumen Table

90	0.1		0.8		2.9		7.1		9.4		7.1		2.9		0.8		0.1	
80	0.4		0.4	1.7	5.1	10.2	15.6	20.1	22.6	22.6	20.1	15.6	10.2	5.1	1.7	0.4	0.4	
70	0.4		1.3	6.0	14.4	25.0	34.7	41.3	44.8	44.8	41.3	34.7	25.0	14.4	6.0	1.3	0.4	
60	0.9		3.2	11.8	25.1	38.2	61.9	94.7	113.4	113.4	94.7	61.9	38.2	25.1	11.8	3.2	0.9	
50	0.9		5.4	17.6	33.0	72.9	125.2	146.7	154.2	154.2	146.7	125.2	72.9	33.0	17.6	5.4	0.9	
40	2.1		7.5	22.2	48.8	113.3	141.0	192.7	393.3	393.3	192.7	141.0	113.3	48.8	22.2	7.5	2.1	
30	2.1		9.1	24.7	70.3	124.5	181.4	1147.6	3400.6	3400.6	1147.6	181.4	124.5	70.3	24.7	9.1	2.1	
20	2.6		9.9	25.9	81.4	126.9	362.6	3314.2	9320.6	9320.6	3314.2	362.6	126.9	81.4	25.9	9.9	2.6	
10	2.6		9.9	25.9	81.4	126.9	362.6	3314.2	9320.6	9320.6	3314.2	362.6	126.9	81.4	25.9	9.9	2.6	
0	2.6		9.9	25.9	81.4	126.9	362.6	3314.2	9320.6	9320.6	3314.2	362.6	126.9	81.4	25.9	9.9	2.6	
-10	2.1		9.1	24.7	70.3	124.5	181.4	1147.6	3400.6	3400.6	1147.6	181.4	124.5	70.3	24.7	9.1	2.1	
-20	2.1		7.5	22.2	48.8	113.3	141.0	192.7	393.3	393.3	192.7	141.0	113.3	48.8	22.2	7.5	2.1	
-30	0.9		5.4	17.6	33.0	72.9	125.2	146.7	154.2	154.2	146.7	125.2	72.9	33.0	17.6	5.4	0.9	
-40	0.9		3.2	11.8	25.1	38.2	61.9	94.7	113.4	113.4	94.7	61.9	38.2	25.1	11.8	3.2	0.9	
-50	0.4		1.3	6.0	14.4	25.0	34.7	41.3	44.8	44.8	41.3	34.7	25.0	14.4	6.0	1.3	0.4	
-60	0.4		0.4	1.7	5.1	10.2	15.6	20.1	22.6	22.6	20.1	15.6	10.2	5.1	1.7	0.4	0.4	
-70	0.4		0.4	1.7	5.1	10.2	15.6	20.1	22.6	22.6	20.1	15.6	10.2	5.1	1.7	0.4	0.4	
-80	0.1		0.8		2.9		7.1		9.4		7.1		2.9		0.8		0.1	
-90	0.1		0.8		2.9		7.1		9.4		7.1		2.9		0.8		0.1	

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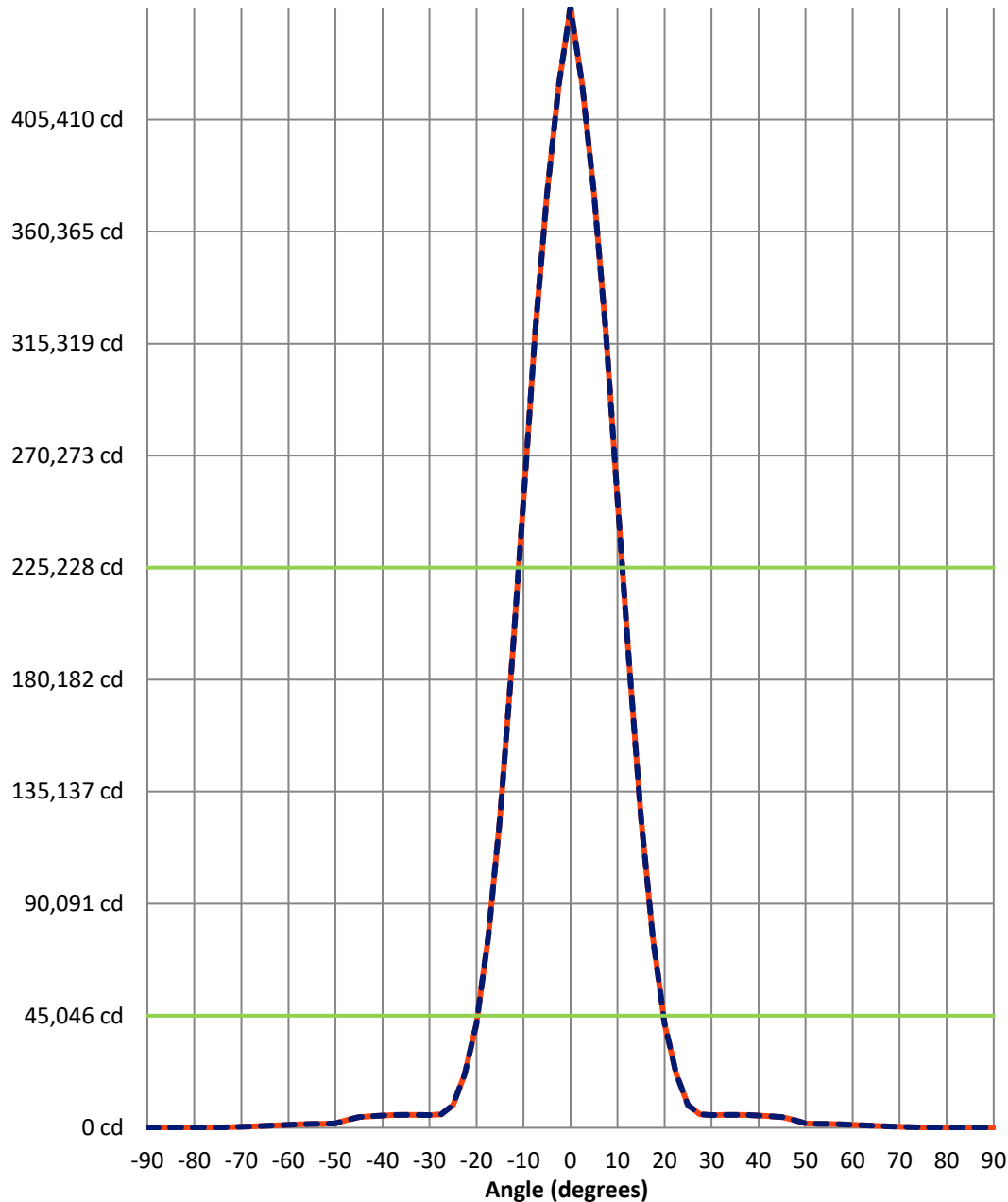
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 22°
 V Angle: 22°
 Lumens: 35861.8
 Efficiency: 44.2%

Field:
 H Angle: 39.6°
 V Angle: 39.6°
 Lumens: 66603.9
 Efficiency: 82.1%

Spill:
 Lumens: 14537.4
 Efficiency: 17.9%

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



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.4	0.7	1.1	1.5	1.8	2.2	2.5	2.9	3.2	3.5
85°	0.0	0.7	1.5	2.2	2.9	3.6	4.3	5.0	5.7	6.4	7.1
82.5°	0.0	1.1	2.2	3.3	4.4	5.4	6.5	7.6	8.5	9.0	9.5
80°	0.0	1.5	2.9	4.4	5.8	7.2	8.5	9.2	9.9	10.6	11.3
77.5°	0.0	1.8	3.6	5.4	7.2	8.7	9.6	10.5	11.3	12.2	13.2
75°	0.0	2.2	4.3	6.5	8.5	9.6	10.7	11.7	12.8	14.1	15.5
72.5°	0.0	2.5	5.0	7.6	9.2	10.5	11.7	13.0	14.6	16.2	17.8
70°	0.0	2.9	5.7	8.5	9.9	11.3	12.8	14.6	16.4	18.3	21.4
67.5°	0.0	3.2	6.4	9.0	10.6	12.2	14.1	16.2	18.3	21.8	25.3
65°	0.0	3.5	7.1	9.5	11.3	13.2	15.5	17.8	21.4	25.3	29.9
62.5°	0.0	3.9	7.7	10.0	11.9	14.2	16.8	20.1	24.4	29.2	36.4
60°	0.0	4.2	8.4	10.5	12.6	15.3	18.1	22.7	27.4	34.9	42.8
57.5°	0.0	4.5	8.7	11.0	13.4	16.4	20.1	25.2	32.0	40.5	59.2
55°	0.0	4.8	9.0	11.4	14.2	17.4	22.3	27.7	36.8	48.9	80.0
52.5°	0.0	5.1	9.3	11.9	15.0	18.5	24.3	31.7	41.6	67.1	100.2
50°	0.0	5.4	9.6	12.3	15.8	20.1	26.3	35.7	49.4	84.8	140.3
47.5°	0.0	5.7	9.9	12.7	16.5	21.8	28.5	39.6	64.6	101.9	181.6
45°	0.0	5.9	10.1	13.3	17.2	23.3	31.7	43.3	79.2	137.2	221.4
42.5°	0.0	6.2	10.4	13.8	17.9	24.8	34.7	51.9	93.2	171.5	267.8
40°	0.0	6.4	10.6	14.3	18.8	26.2	37.6	63.6	111.7	204.4	313.5
37.5°	0.0	6.7	10.9	14.7	19.8	27.6	40.4	74.7	139.4	237.8	357.1
35°	0.0	6.9	11.1	15.1	20.9	29.4	43.1	85.3	165.7	274.9	399.3
32.5°	0.0	7.1	11.3	15.6	21.8	31.5	47.3	95.2	190.4	309.7	440.4
30°	0.0	7.3	11.5	15.9	22.7	33.4	55.2	107.0	213.5	342.4	478.9
27.5°	0.0	7.5	11.6	16.3	23.5	35.2	62.6	125.7	237.0	372.8	514.8
25°	0.0	7.6	11.8	16.6	24.3	36.8	69.3	143.0	261.7	401.8	548.2
22.5°	0.0	7.8	12.0	16.9	25.0	38.3	75.5	158.7	284.3	428.8	585.7
20°	0.0	7.9	12.1	17.2	25.6	39.7	81.1	172.8	304.6	453.1	619.6
17.5°	0.0	8.0	12.2	17.4	26.2	40.9	86.0	185.4	322.7	474.8	649.7
15°	0.0	8.1	12.3	17.6	26.7	41.9	90.3	196.3	338.5	493.6	676.0
12.5°	0.0	8.2	12.4	17.8	27.1	42.8	93.9	205.7	351.9	509.7	698.4
10°	0.0	8.3	12.5	17.9	27.4	43.5	96.9	213.3	362.9	522.9	716.8
7.5°	0.0	8.3	12.5	18.1	27.7	44.1	99.3	219.3	371.5	533.2	731.1
5°	0.0	8.4	12.6	18.1	27.8	44.5	101.0	223.6	377.7	540.6	741.4
2.5°	0.0	8.4	12.6	18.2	28.0	44.7	102.0	226.1	381.4	545.0	747.6
0°	0.0	8.4	12.6	18.2	28.0	44.7	102.0	226.1	381.4	545.0	747.6
-2.5°	0.0	8.4	12.6	18.2	28.0	44.7	102.0	226.1	381.4	545.0	747.6
-5°	0.0	8.4	12.6	18.1	27.8	44.5	101.0	223.6	377.7	540.6	741.4
-7.5°	0.0	8.3	12.5	18.1	27.7	44.1	99.3	219.3	371.5	533.2	731.1
-10°	0.0	8.3	12.5	17.9	27.4	43.5	96.9	213.3	362.9	522.9	716.8
-12.5°	0.0	8.2	12.4	17.8	27.1	42.8	93.9	205.7	351.9	509.7	698.4
-15°	0.0	8.1	12.3	17.6	26.7	41.9	90.3	196.3	338.5	493.6	676.0
-17.5°	0.0	8.0	12.2	17.4	26.2	40.9	86.0	185.4	322.7	474.8	649.7
-20°	0.0	7.9	12.1	17.2	25.6	39.7	81.1	172.8	304.6	453.1	619.6



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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	7.8	12.0	16.9	25.0	38.3	75.5	158.7	284.3	428.8	585.7
-25°	0.0	7.6	11.8	16.6	24.3	36.8	69.3	143.0	261.7	401.8	548.2
-27.5°	0.0	7.5	11.6	16.3	23.5	35.2	62.6	125.7	237.0	372.8	514.8
-30°	0.0	7.3	11.5	15.9	22.7	33.4	55.2	107.0	213.5	342.4	478.9
-32.5°	0.0	7.1	11.3	15.6	21.8	31.5	47.3	95.2	190.4	309.7	440.4
-35°	0.0	6.9	11.1	15.1	20.9	29.4	43.1	85.3	165.7	274.9	399.3
-37.5°	0.0	6.7	10.9	14.7	19.8	27.6	40.4	74.7	139.4	237.8	357.1
-40°	0.0	6.4	10.6	14.3	18.8	26.2	37.6	63.6	111.7	204.4	313.5
-42.5°	0.0	6.2	10.4	13.8	17.9	24.8	34.7	51.9	93.2	171.5	267.8
-45°	0.0	5.9	10.1	13.3	17.2	23.3	31.7	43.3	79.2	137.2	221.4
-47.5°	0.0	5.7	9.9	12.7	16.5	21.8	28.5	39.6	64.6	101.9	181.6
-50°	0.0	5.4	9.6	12.3	15.8	20.1	26.3	35.7	49.4	84.8	140.3
-52.5°	0.0	5.1	9.3	11.9	15.0	18.5	24.3	31.7	41.6	67.1	100.2
-55°	0.0	4.8	9.0	11.4	14.2	17.4	22.3	27.7	36.8	48.9	80.0
-57.5°	0.0	4.5	8.7	11.0	13.4	16.4	20.1	25.2	32.0	40.5	59.2
-60°	0.0	4.2	8.4	10.5	12.6	15.3	18.1	22.7	27.4	34.9	42.8
-62.5°	0.0	3.9	7.7	10.0	11.9	14.2	16.8	20.1	24.4	29.2	36.4
-65°	0.0	3.5	7.1	9.5	11.3	13.2	15.5	17.8	21.4	25.3	29.9
-67.5°	0.0	3.2	6.4	9.0	10.6	12.2	14.1	16.2	18.3	21.8	25.3
-70°	0.0	2.9	5.7	8.5	9.9	11.3	12.8	14.6	16.4	18.3	21.4
-72.5°	0.0	2.5	5.0	7.6	9.2	10.5	11.7	13.0	14.6	16.2	17.8
-75°	0.0	2.2	4.3	6.5	8.5	9.6	10.7	11.7	12.8	14.1	15.5
-77.5°	0.0	1.8	3.6	5.4	7.2	8.7	9.6	10.5	11.3	12.2	13.2
-80°	0.0	1.5	2.9	4.4	5.8	7.2	8.5	9.2	9.9	10.6	11.3
-82.5°	0.0	1.1	2.2	3.3	4.4	5.4	6.5	7.6	8.5	9.0	9.5
-85°	0.0	0.7	1.5	2.2	2.9	3.6	4.3	5.0	5.7	6.4	7.1
-87.5°	0.0	0.4	0.7	1.1	1.5	1.8	2.2	2.5	2.9	3.2	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):

	-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°	3.9	4.2	4.5	4.8	5.1	5.4	5.7	5.9	6.2	6.4	6.7
85°	7.7	8.4	8.7	9.0	9.3	9.6	9.9	10.1	10.4	10.6	10.9
82.5°	10.0	10.5	11.0	11.4	11.9	12.3	12.7	13.3	13.8	14.3	14.7
80°	11.9	12.6	13.4	14.2	15.0	15.8	16.5	17.2	17.9	18.8	19.8
77.5°	14.2	15.3	16.4	17.4	18.5	20.1	21.8	23.3	24.8	26.2	27.6
75°	16.8	18.1	20.1	22.3	24.3	26.3	28.5	31.7	34.7	37.6	40.4
72.5°	20.1	22.7	25.2	27.7	31.7	35.7	39.6	43.3	51.9	63.6	74.7
70°	24.4	27.4	32.0	36.8	41.6	49.4	64.6	79.2	93.2	111.7	139.4
67.5°	29.2	34.9	40.5	48.9	67.1	84.8	101.9	137.2	171.5	204.4	237.8
65°	36.4	42.8	59.2	80.0	100.2	140.3	181.6	221.4	267.8	313.5	357.1
62.5°	43.5	64.3	87.7	120.2	168.4	215.3	269.1	323.9	376.6	429.5	480.2
60°	64.3	90.3	131.4	185.4	240.7	304.6	366.6	428.8	489.6	548.2	617.3
57.5°	87.7	131.4	191.1	255.0	326.1	396.0	466.8	535.3	614.5	693.2	769.2
55°	120.2	185.4	255.0	333.3	411.2	489.8	570.8	662.5	751.1	839.8	924.7
52.5°	168.4	240.7	326.1	411.2	497.5	590.0	691.6	791.7	890.9	985.4	1073.4
50°	215.3	304.6	396.0	489.8	590.0	701.3	812.2	921.9	1025.4	1123.8	1222.3
47.5°	269.1	366.6	466.8	570.8	691.6	812.2	932.2	1045.5	1154.3	1266.5	1375.3
45°	323.9	428.8	535.3	662.5	791.7	921.9	1045.5	1164.5	1288.8	1401.3	1482.3
42.5°	376.6	489.6	614.5	751.1	890.9	1025.4	1154.3	1288.8	1409.2	1498.4	1550.1
40°	429.5	548.2	693.2	839.8	985.4	1123.8	1266.5	1401.3	1498.4	1552.5	1579.4
37.5°	480.2	617.3	769.2	924.7	1073.4	1222.3	1375.3	1482.3	1550.1	1579.4	1681.2
35°	528.5	682.9	843.8	1003.9	1157.3	1319.4	1450.4	1542.9	1574.5	1671.8	2043.4
32.5°	580.6	745.0	914.4	1077.6	1242.5	1403.1	1519.6	1564.7	1644.0	1884.4	2858.5
30°	633.6	805.5	980.0	1146.9	1323.3	1464.1	1550.3	1598.1	1726.1	2615.2	3543.3
27.5°	682.9	862.1	1039.6	1215.4	1394.2	1521.2	1568.4	1670.4	2215.5	3274.7	4143.0
25°	728.5	914.4	1094.7	1280.0	1443.3	1547.1	1597.7	1737.8	2819.6	3801.2	4397.9
22.5°	771.0	962.3	1145.2	1339.4	1488.4	1561.5	1655.4	2186.4	3333.6	4273.7	4554.1
20°	810.3	1003.9	1192.9	1390.1	1529.3	1574.6	1708.0	2659.9	3748.9	4407.0	4682.4
17.5°	845.2	1041.0	1236.7	1423.6	1544.6	1601.3	1811.3	3085.2	4122.6	4527.3	4791.2
15°	875.7	1073.4	1275.1	1453.0	1554.1	1639.4	2156.5	3399.3	4322.1	4628.7	4887.2
12.5°	901.6	1101.0	1307.8	1478.0	1562.1	1672.0	2452.2	3660.4	4406.5	4705.5	4955.1
10°	923.0	1123.8	1334.8	1498.7	1568.8	1699.0	2696.8	3876.6	4476.5	4769.2	5011.7
7.5°	939.7	1141.5	1355.8	1514.9	1574.0	1720.1	2888.6	4046.4	4531.6	4819.5	5056.4
5°	951.7	1154.3	1371.0	1526.5	1577.7	1735.2	3026.6	4168.6	4571.3	4855.7	5088.7
2.5°	958.9	1161.9	1380.1	1533.5	1579.9	1744.3	3109.7	4242.3	4595.2	4877.6	5108.2
0°	961.3	1164.5	1383.1	1535.8	1580.7	1747.4	3137.5	4266.9	4603.2	4884.9	5114.7
-2.5°	958.9	1161.9	1380.1	1533.5	1579.9	1744.3	3109.7	4242.3	4595.2	4877.6	5108.2
-5°	951.7	1154.3	1371.0	1526.5	1577.7	1735.2	3026.6	4168.6	4571.3	4855.7	5088.7
-7.5°	939.7	1141.5	1355.8	1514.9	1574.0	1720.1	2888.6	4046.4	4531.6	4819.5	5056.4
-10°	923.0	1123.8	1334.8	1498.7	1568.8	1699.0	2696.8	3876.6	4476.5	4769.2	5011.7
-12.5°	901.6	1101.0	1307.8	1478.0	1562.1	1672.0	2452.2	3660.4	4406.5	4705.5	4955.1
-15°	875.7	1073.4	1275.1	1453.0	1554.1	1639.4	2156.5	3399.3	4322.1	4628.7	4887.2
-17.5°	845.2	1041.0	1236.7	1423.6	1544.6	1601.3	1811.3	3085.2	4122.6	4527.3	4791.2
-20°	810.3	1003.9	1192.9	1390.1	1529.3	1574.6	1708.0	2659.9	3748.9	4407.0	4682.4



REPORT NUMBER: P731265 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	771.0	962.3	1145.2	1339.4	1488.4	1561.5	1655.4	2186.4	3333.6	4273.7	4554.1
-25°	728.5	914.4	1094.7	1280.0	1443.3	1547.1	1597.7	1737.8	2819.6	3801.2	4397.9
-27.5°	682.9	862.1	1039.6	1215.4	1394.2	1521.2	1568.4	1670.4	2215.5	3274.7	4143.0
-30°	633.6	805.5	980.0	1146.9	1323.3	1464.1	1550.3	1598.1	1726.1	2615.2	3543.3
-32.5°	580.6	745.0	914.4	1077.6	1242.5	1403.1	1519.6	1564.7	1644.0	1884.4	2858.5
-35°	528.5	682.9	843.8	1003.9	1157.3	1319.4	1450.4	1542.9	1574.5	1671.8	2043.4
-37.5°	480.2	617.3	769.2	924.7	1073.4	1222.3	1375.3	1482.3	1550.1	1579.4	1681.2
-40°	429.5	548.2	693.2	839.8	985.4	1123.8	1266.5	1401.3	1498.4	1552.5	1579.4
-42.5°	376.6	489.6	614.5	751.1	890.9	1025.4	1154.3	1288.8	1409.2	1498.4	1550.1
-45°	323.9	428.8	535.3	662.5	791.7	921.9	1045.5	1164.5	1288.8	1401.3	1482.3
-47.5°	269.1	366.6	466.8	570.8	691.6	812.2	932.2	1045.5	1154.3	1266.5	1375.3
-50°	215.3	304.6	396.0	489.8	590.0	701.3	812.2	921.9	1025.4	1123.8	1222.3
-52.5°	168.4	240.7	326.1	411.2	497.5	590.0	691.6	791.7	890.9	985.4	1073.4
-55°	120.2	185.4	255.0	333.3	411.2	489.8	570.8	662.5	751.1	839.8	924.7
-57.5°	87.7	131.4	191.1	255.0	326.1	396.0	466.8	535.3	614.5	693.2	769.2
-60°	64.3	90.3	131.4	185.4	240.7	304.6	366.6	428.8	489.6	548.2	617.3
-62.5°	43.5	64.3	87.7	120.2	168.4	215.3	269.1	323.9	376.6	429.5	480.2
-65°	36.4	42.8	59.2	80.0	100.2	140.3	181.6	221.4	267.8	313.5	357.1
-67.5°	29.2	34.9	40.5	48.9	67.1	84.8	101.9	137.2	171.5	204.4	237.8
-70°	24.4	27.4	32.0	36.8	41.6	49.4	64.6	79.2	93.2	111.7	139.4
-72.5°	20.1	22.7	25.2	27.7	31.7	35.7	39.6	43.3	51.9	63.6	74.7
-75°	16.8	18.1	20.1	22.3	24.3	26.3	28.5	31.7	34.7	37.6	40.4
-77.5°	14.2	15.3	16.4	17.4	18.5	20.1	21.8	23.3	24.8	26.2	27.6
-80°	11.9	12.6	13.4	14.2	15.0	15.8	16.5	17.2	17.9	18.8	19.8
-82.5°	10.0	10.5	11.0	11.4	11.9	12.3	12.7	13.3	13.8	14.3	14.7
-85°	7.7	8.4	8.7	9.0	9.3	9.6	9.9	10.1	10.4	10.6	10.9
-87.5°	3.9	4.2	4.5	4.8	5.1	5.4	5.7	5.9	6.2	6.4	6.7
-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: P731265 (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°	6.9	7.1	7.3	7.5	7.6	7.8	7.9	8.0	8.1	8.2	8.3
85°	11.1	11.3	11.5	11.6	11.8	12.0	12.1	12.2	12.3	12.4	12.5
82.5°	15.1	15.6	15.9	16.3	16.6	16.9	17.2	17.4	17.6	17.8	17.9
80°	20.9	21.8	22.7	23.5	24.3	25.0	25.6	26.2	26.7	27.1	27.4
77.5°	29.4	31.5	33.4	35.2	36.8	38.3	39.7	40.9	41.9	42.8	43.5
75°	43.1	47.3	55.2	62.6	69.3	75.5	81.1	86.0	90.3	93.9	96.9
72.5°	85.3	95.2	107.0	125.7	143.0	158.7	172.8	185.4	196.3	205.7	213.3
70°	165.7	190.4	213.5	237.0	261.7	284.3	304.6	322.7	338.5	351.9	362.9
67.5°	274.9	309.7	342.4	372.8	401.8	428.8	453.1	474.8	493.6	509.7	522.9
65°	399.3	440.4	478.9	514.8	548.2	585.7	619.6	649.7	676.0	698.4	716.8
62.5°	528.5	580.6	633.6	682.9	728.5	771.0	810.3	845.2	875.7	901.6	923.0
60°	682.9	745.0	805.5	862.1	914.4	962.3	1003.9	1041.0	1073.4	1101.0	1123.8
57.5°	843.8	914.4	980.0	1039.6	1094.7	1145.2	1192.9	1236.7	1275.1	1307.8	1334.8
55°	1003.9	1077.6	1146.9	1215.4	1280.0	1339.4	1390.1	1423.6	1453.0	1478.0	1498.7
52.5°	1157.3	1242.5	1323.3	1394.2	1443.3	1488.4	1529.3	1544.6	1554.1	1562.1	1568.8
50°	1319.4	1403.1	1464.1	1521.2	1547.1	1561.5	1574.6	1601.3	1639.4	1672.0	1699.0
47.5°	1450.4	1519.6	1550.3	1568.4	1597.7	1655.4	1708.0	1811.3	2156.5	2452.2	2696.8
45°	1542.9	1564.7	1598.1	1670.4	1737.8	2186.4	2659.9	3085.2	3399.3	3660.4	3876.6
42.5°	1574.5	1644.0	1726.1	2215.5	2819.6	3333.6	3748.9	4122.6	4322.1	4406.5	4476.5
40°	1671.8	1884.4	2615.2	3274.7	3801.2	4273.7	4407.0	4527.3	4628.7	4705.5	4769.2
37.5°	2043.4	2858.5	3543.3	4143.0	4397.9	4554.1	4682.4	4791.2	4887.2	4955.1	5011.7
35°	2940.1	3679.0	4292.0	4482.4	4652.4	4792.8	4915.4	5011.2	5096.5	5125.9	5138.3
32.5°	3679.0	4312.8	4525.2	4707.5	4868.1	4994.0	5107.6	5134.1	5152.7	5160.0	5158.4
30°	4292.0	4525.2	4726.1	4902.4	5042.1	5126.6	5151.2	5159.4	5157.0	5147.9	5121.4
27.5°	4482.4	4707.5	4902.4	5058.3	5133.3	5160.9	5157.7	5146.2	5107.1	5072.9	5187.6
25°	4652.4	4868.1	5042.1	5133.3	5160.5	5156.8	5125.8	5079.0	5217.0	5366.4	6426.7
22.5°	4792.8	4994.0	5126.6	5160.9	5156.8	5118.9	5105.1	5306.9	6400.5	8236.0	11517.1
20°	4915.4	5107.6	5151.2	5157.7	5125.8	5105.1	5337.3	7119.2	10024.0	16867.6	23504.6
17.5°	5011.2	5134.1	5159.4	5146.2	5079.0	5306.9	7119.2	11332.0	19641.5	30651.7	41355.1
15°	5096.5	5152.7	5157.0	5107.1	5217.0	6400.5	10024.0	19641.5	33103.1	49852.0	70242.0
12.5°	5125.9	5160.0	5147.9	5072.9	5366.4	8236.0	16867.6	30651.7	49852.0	75194.3	106226.8
10°	5138.3	5158.4	5121.4	5187.6	6426.7	11517.1	23504.6	41355.1	70242.0	106226.8	145074.5
7.5°	5148.1	5157.0	5100.4	5279.9	7570.3	15831.1	31348.4	55960.1	91395.7	134975.2	186539.7
5°	5155.3	5156.1	5085.1	5347.2	8408.6	19011.5	37176.0	67260.0	109382.5	161431.8	221566.0
2.5°	5159.6	5155.5	5075.8	5388.2	8920.7	20962.6	40771.9	74290.0	120707.5	179504.8	244404.3
0°	5161.0	5155.3	5072.7	5402.0	9093.0	21620.5	41988.2	76678.6	124581.7	185934.4	252412.9
-2.5°	5159.6	5155.5	5075.8	5388.2	8920.7	20962.6	40771.9	74290.0	120707.5	179504.8	244404.3
-5°	5155.3	5156.1	5085.1	5347.2	8408.6	19011.5	37176.0	67260.0	109382.5	161431.8	221566.0
-7.5°	5148.1	5157.0	5100.4	5279.9	7570.3	15831.1	31348.4	55960.1	91395.7	134975.2	186539.7
-10°	5138.3	5158.4	5121.4	5187.6	6426.7	11517.1	23504.6	41355.1	70242.0	106226.8	145074.5
-12.5°	5125.9	5160.0	5147.9	5072.9	5366.4	8236.0	16867.6	30651.7	49852.0	75194.3	106226.8
-15°	5096.5	5152.7	5157.0	5107.1	5217.0	6400.5	10024.0	19641.5	33103.1	49852.0	70242.0
-17.5°	5011.2	5134.1	5159.4	5146.2	5079.0	5306.9	7119.2	11332.0	19641.5	30651.7	41355.1
-20°	4915.4	5107.6	5151.2	5157.7	5125.8	5105.1	5337.3	7119.2	10024.0	16867.6	23504.6



REPORT NUMBER: P731265 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4792.8	4994.0	5126.6	5160.9	5156.8	5118.9	5105.1	5306.9	6400.5	8236.0	11517.1
-25°	4652.4	4868.1	5042.1	5133.3	5160.5	5156.8	5125.8	5079.0	5217.0	5366.4	6426.7
-27.5°	4482.4	4707.5	4902.4	5058.3	5133.3	5160.9	5157.7	5146.2	5107.1	5072.9	5187.6
-30°	4292.0	4525.2	4726.1	4902.4	5042.1	5126.6	5151.2	5159.4	5157.0	5147.9	5121.4
-32.5°	3679.0	4312.8	4525.2	4707.5	4868.1	4994.0	5107.6	5134.1	5152.7	5160.0	5158.4
-35°	2940.1	3679.0	4292.0	4482.4	4652.4	4792.8	4915.4	5011.2	5096.5	5125.9	5138.3
-37.5°	2043.4	2858.5	3543.3	4143.0	4397.9	4554.1	4682.4	4791.2	4887.2	4955.1	5011.7
-40°	1671.8	1884.4	2615.2	3274.7	3801.2	4273.7	4407.0	4527.3	4628.7	4705.5	4769.2
-42.5°	1574.5	1644.0	1726.1	2215.5	2819.6	3333.6	3748.9	4122.6	4322.1	4406.5	4476.5
-45°	1542.9	1564.7	1598.1	1670.4	1737.8	2186.4	2659.9	3085.2	3399.3	3660.4	3876.6
-47.5°	1450.4	1519.6	1550.3	1568.4	1597.7	1655.4	1708.0	1811.3	2156.5	2452.2	2696.8
-50°	1319.4	1403.1	1464.1	1521.2	1547.1	1561.5	1574.6	1601.3	1639.4	1672.0	1699.0
-52.5°	1157.3	1242.5	1323.3	1394.2	1443.3	1488.4	1529.3	1544.6	1554.1	1562.1	1568.8
-55°	1003.9	1077.6	1146.9	1215.4	1280.0	1339.4	1390.1	1423.6	1453.0	1478.0	1498.7
-57.5°	843.8	914.4	980.0	1039.6	1094.7	1145.2	1192.9	1236.7	1275.1	1307.8	1334.8
-60°	682.9	745.0	805.5	862.1	914.4	962.3	1003.9	1041.0	1073.4	1101.0	1123.8
-62.5°	528.5	580.6	633.6	682.9	728.5	771.0	810.3	845.2	875.7	901.6	923.0
-65°	399.3	440.4	478.9	514.8	548.2	585.7	619.6	649.7	676.0	698.4	716.8
-67.5°	274.9	309.7	342.4	372.8	401.8	428.8	453.1	474.8	493.6	509.7	522.9
-70°	165.7	190.4	213.5	237.0	261.7	284.3	304.6	322.7	338.5	351.9	362.9
-72.5°	85.3	95.2	107.0	125.7	143.0	158.7	172.8	185.4	196.3	205.7	213.3
-75°	43.1	47.3	55.2	62.6	69.3	75.5	81.1	86.0	90.3	93.9	96.9
-77.5°	29.4	31.5	33.4	35.2	36.8	38.3	39.7	40.9	41.9	42.8	43.5
-80°	20.9	21.8	22.7	23.5	24.3	25.0	25.6	26.2	26.7	27.1	27.4
-82.5°	15.1	15.6	15.9	16.3	16.6	16.9	17.2	17.4	17.6	17.8	17.9
-85°	11.1	11.3	11.5	11.6	11.8	12.0	12.1	12.2	12.3	12.4	12.5
-87.5°	6.9	7.1	7.3	7.5	7.6	7.8	7.9	8.0	8.1	8.2	8.3
-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: P731265 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-2S-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°	8.3	8.4	8.4	8.4	8.4	8.4	8.3	8.3	8.2	8.1	8.0
85°	12.5	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.4	12.3	12.2
82.5°	18.1	18.1	18.2	18.2	18.2	18.1	18.1	17.9	17.8	17.6	17.4
80°	27.7	27.8	28.0	28.0	28.0	27.8	27.7	27.4	27.1	26.7	26.2
77.5°	44.1	44.5	44.7	44.8	44.7	44.5	44.1	43.5	42.8	41.9	40.9
75°	99.3	101.0	102.0	102.3	102.0	101.0	99.3	96.9	93.9	90.3	86.0
72.5°	219.3	223.6	226.1	227.0	226.1	223.6	219.3	213.3	205.7	196.3	185.4
70°	371.5	377.7	381.4	382.6	381.4	377.7	371.5	362.9	351.9	338.5	322.7
67.5°	533.2	540.6	545.0	546.5	545.0	540.6	533.2	522.9	509.7	493.6	474.8
65°	731.1	741.4	747.6	749.7	747.6	741.4	731.1	716.8	698.4	676.0	649.7
62.5°	939.7	951.7	958.9	961.3	958.9	951.7	939.7	923.0	901.6	875.7	845.2
60°	1141.5	1154.3	1161.9	1164.5	1161.9	1154.3	1141.5	1123.8	1101.0	1073.4	1041.0
57.5°	1355.8	1371.0	1380.1	1383.1	1380.1	1371.0	1355.8	1334.8	1307.8	1275.1	1236.7
55°	1514.9	1526.5	1533.5	1535.8	1533.5	1526.5	1514.9	1498.7	1478.0	1453.0	1423.6
52.5°	1574.0	1577.7	1579.9	1580.7	1579.9	1577.7	1574.0	1568.8	1562.1	1554.1	1544.6
50°	1720.1	1735.2	1744.3	1747.4	1744.3	1735.2	1720.1	1699.0	1672.0	1639.4	1601.3
47.5°	2888.6	3026.6	3109.7	3137.5	3109.7	3026.6	2888.6	2696.8	2452.2	2156.5	1811.3
45°	4046.4	4168.6	4242.3	4266.9	4242.3	4168.6	4046.4	3876.6	3660.4	3399.3	3085.2
42.5°	4531.6	4571.3	4595.2	4603.2	4595.2	4571.3	4531.6	4476.5	4406.5	4322.1	4122.6
40°	4819.5	4855.7	4877.6	4884.9	4877.6	4855.7	4819.5	4769.2	4705.5	4628.7	4527.3
37.5°	5056.4	5088.7	5108.2	5114.7	5108.2	5088.7	5056.4	5011.7	4955.1	4887.2	4791.2
35°	5148.1	5155.3	5159.6	5161.0	5159.6	5155.3	5148.1	5138.3	5125.9	5096.5	5011.2
32.5°	5157.0	5156.1	5155.5	5155.3	5155.5	5156.1	5157.0	5158.4	5160.0	5152.7	5134.1
30°	5100.4	5085.1	5075.8	5072.0	5075.8	5085.1	5100.4	5121.4	5147.9	5157.0	5159.4
27.5°	5279.9	5347.2	5388.2	5402.0	5388.2	5347.2	5279.9	5187.6	5072.9	5107.1	5146.2
25°	7570.3	8408.6	8920.7	9093.0	8920.7	8408.6	7570.3	6426.7	5366.4	5217.0	5079.0
22.5°	15831.1	19011.5	20962.6	21620.5	20962.6	19011.5	15831.1	11517.1	8236.0	6400.5	5306.9
20°	31348.4	37176.0	40771.9	41988.2	40771.9	37176.0	31348.4	23504.6	16867.6	10024.0	7119.2
17.5°	55960.1	67260.0	74290.0	76678.6	74290.0	67260.0	55960.1	41355.1	30651.7	19641.5	11332.0
15°	91395.7	109382.5	120707.5	124581.7	120707.5	109382.5	91395.7	70242.0	49852.0	33103.1	19641.5
12.5°	134975.2	161431.8	179504.8	185934.4	179504.8	161431.8	134975.2	106226.8	75194.3	49852.0	30651.7
10°	186539.7	221566.0	244404.3	252412.9	244404.3	221566.0	186539.7	145074.5	106226.8	70242.0	41355.1
7.5°	236867.4	278451.7	309124.9	320226.3	309124.9	278451.7	236867.4	186539.7	134975.2	91395.7	55960.1
5°	278451.7	332152.9	365079.9	375488.2	365079.9	332152.9	278451.7	221566.0	161431.8	109382.5	67260.0
2.5°	309124.9	365079.9	400673.5	419129.3	400673.5	365079.9	309124.9	244404.3	179504.8	120707.5	74290.0
0°	320226.3	375488.2	419129.3	450455.8	419129.3	375488.2	320226.3	252412.9	185934.4	124581.7	76678.6
-2.5°	309124.9	365079.9	400673.5	419129.3	400673.5	365079.9	309124.9	244404.3	179504.8	120707.5	74290.0
-5°	278451.7	332152.9	365079.9	375488.2	365079.9	332152.9	278451.7	221566.0	161431.8	109382.5	67260.0
-7.5°	236867.4	278451.7	309124.9	320226.3	309124.9	278451.7	236867.4	186539.7	134975.2	91395.7	55960.1
-10°	186539.7	221566.0	244404.3	252412.9	244404.3	221566.0	186539.7	145074.5	106226.8	70242.0	41355.1
-12.5°	134975.2	161431.8	179504.8	185934.4	179504.8	161431.8	134975.2	106226.8	75194.3	49852.0	30651.7
-15°	91395.7	109382.5	120707.5	124581.7	120707.5	109382.5	91395.7	70242.0	49852.0	33103.1	19641.5
-17.5°	55960.1	67260.0	74290.0	76678.6	74290.0	67260.0	55960.1	41355.1	30651.7	19641.5	11332.0
-20°	31348.4	37176.0	40771.9	41988.2	40771.9	37176.0	31348.4	23504.6	16867.6	10024.0	7119.2



REPORT NUMBER: P731265 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	15831.1	19011.5	20962.6	21620.5	20962.6	19011.5	15831.1	11517.1	8236.0	6400.5	5306.9
-25°	7570.3	8408.6	8920.7	9093.0	8920.7	8408.6	7570.3	6426.7	5366.4	5217.0	5079.0
-27.5°	5279.9	5347.2	5388.2	5402.0	5388.2	5347.2	5279.9	5187.6	5072.9	5107.1	5146.2
-30°	5100.4	5085.1	5075.8	5072.7	5075.8	5085.1	5100.4	5121.4	5147.9	5157.0	5159.4
-32.5°	5157.0	5156.1	5155.5	5155.3	5155.5	5156.1	5157.0	5158.4	5160.0	5152.7	5134.1
-35°	5148.1	5155.3	5159.6	5161.0	5159.6	5155.3	5148.1	5138.3	5125.9	5096.5	5011.2
-37.5°	5056.4	5088.7	5108.2	5114.7	5108.2	5088.7	5056.4	5011.7	4955.1	4887.2	4791.2
-40°	4819.5	4855.7	4877.6	4884.9	4877.6	4855.7	4819.5	4769.2	4705.5	4628.7	4527.3
-42.5°	4531.6	4571.3	4595.2	4603.2	4595.2	4571.3	4531.6	4476.5	4406.5	4322.1	4122.6
-45°	4046.4	4168.6	4242.3	4266.9	4242.3	4168.6	4046.4	3876.6	3660.4	3399.3	3085.2
-47.5°	2888.6	3026.6	3109.7	3137.5	3109.7	3026.6	2888.6	2696.8	2452.2	2156.5	1811.3
-50°	1720.1	1735.2	1744.3	1747.4	1744.3	1735.2	1720.1	1699.0	1672.0	1639.4	1601.3
-52.5°	1574.0	1577.7	1579.9	1580.7	1579.9	1577.7	1574.0	1568.8	1562.1	1554.1	1544.6
-55°	1514.9	1526.5	1533.5	1535.8	1533.5	1526.5	1514.9	1498.7	1478.0	1453.0	1423.6
-57.5°	1355.8	1371.0	1380.1	1383.1	1380.1	1371.0	1355.8	1334.8	1307.8	1275.1	1236.7
-60°	1141.5	1154.3	1161.9	1164.5	1161.9	1154.3	1141.5	1123.8	1101.0	1073.4	1041.0
-62.5°	939.7	951.7	958.9	961.3	958.9	951.7	939.7	923.0	901.6	875.7	845.2
-65°	731.1	741.4	747.6	749.7	747.6	741.4	731.1	716.8	698.4	676.0	649.7
-67.5°	533.2	540.6	545.0	546.5	545.0	540.6	533.2	522.9	509.7	493.6	474.8
-70°	371.5	377.7	381.4	382.6	381.4	377.7	371.5	362.9	351.9	338.5	322.7
-72.5°	219.3	223.6	226.1	227.0	226.1	223.6	219.3	213.3	205.7	196.3	185.4
-75°	99.3	101.0	102.0	102.3	102.0	101.0	99.3	96.9	93.9	90.3	86.0
-77.5°	44.1	44.5	44.7	44.8	44.7	44.5	44.1	43.5	42.8	41.9	40.9
-80°	27.7	27.8	28.0	28.0	28.0	27.8	27.7	27.4	27.1	26.7	26.2
-82.5°	18.1	18.1	18.2	18.2	18.2	18.1	18.1	17.9	17.8	17.6	17.4
-85°	12.5	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.4	12.3	12.2
-87.5°	8.3	8.4	8.4	8.4	8.4	8.4	8.3	8.3	8.2	8.1	8.0
-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°	7.9	7.8	7.6	7.5	7.3	7.1	6.9	6.7	6.4	6.2	5.9
85°	12.1	12.0	11.8	11.6	11.5	11.3	11.1	10.9	10.6	10.4	10.1
82.5°	17.2	16.9	16.6	16.3	15.9	15.6	15.1	14.7	14.3	13.8	13.3
80°	25.6	25.0	24.3	23.5	22.7	21.8	20.9	19.8	18.8	17.9	17.2
77.5°	39.7	38.3	36.8	35.2	33.4	31.5	29.4	27.6	26.2	24.8	23.3
75°	81.1	75.5	69.3	62.6	55.2	47.3	43.1	40.4	37.6	34.7	31.7
72.5°	172.8	158.7	143.0	125.7	107.0	95.2	85.3	74.7	63.6	51.9	43.3
70°	304.6	284.3	261.7	237.0	213.5	190.4	165.7	139.4	111.7	93.2	79.2
67.5°	453.1	428.8	401.8	372.8	342.4	309.7	274.9	237.8	204.4	171.5	137.2
65°	619.6	585.7	548.2	514.8	478.9	440.4	399.3	357.1	313.5	267.8	221.4
62.5°	810.3	771.0	728.5	682.9	633.6	580.6	528.5	480.2	429.5	376.6	323.9
60°	1003.9	962.3	914.4	862.1	805.5	745.0	682.9	617.3	548.2	489.6	428.8
57.5°	1192.9	1145.2	1094.7	1039.6	980.0	914.4	843.8	769.2	693.2	614.5	535.3
55°	1390.1	1339.4	1280.0	1215.4	1146.9	1077.6	1003.9	924.7	839.8	751.1	662.5
52.5°	1529.3	1488.4	1443.3	1394.2	1323.3	1242.5	1157.3	1073.4	985.4	890.9	791.7
50°	1574.6	1561.5	1547.1	1521.2	1464.1	1403.1	1319.4	1222.3	1123.8	1025.4	921.9
47.5°	1708.0	1655.4	1597.7	1568.4	1550.3	1519.6	1450.4	1375.3	1266.5	1154.3	1045.5
45°	2659.9	2186.4	1737.8	1670.4	1598.1	1564.7	1542.9	1482.3	1401.3	1288.8	1164.5
42.5°	3748.9	3333.6	2819.6	2215.5	1726.1	1644.0	1574.5	1550.1	1498.4	1409.2	1288.8
40°	4407.0	4273.7	3801.2	3274.7	2615.2	1884.4	1671.8	1579.4	1552.5	1498.4	1401.3
37.5°	4682.4	4554.1	4397.9	4143.0	3543.3	2858.5	2043.4	1681.2	1579.4	1550.1	1482.3
35°	4915.4	4792.8	4652.4	4482.4	4292.0	3679.0	2940.1	2043.4	1671.8	1574.5	1542.9
32.5°	5107.6	4994.0	4868.1	4707.5	4525.2	4312.8	3679.0	2858.5	1884.4	1644.0	1564.7
30°	5151.2	5126.6	5042.1	4902.4	4726.1	4525.2	4292.0	3543.3	2615.2	1726.1	1598.1
27.5°	5157.7	5160.9	5133.3	5058.3	4902.4	4707.5	4482.4	4143.0	3274.7	2215.5	1670.4
25°	5125.8	5156.8	5160.5	5133.3	5042.1	4868.1	4652.4	4397.9	3801.2	2819.6	1737.8
22.5°	5105.1	5118.9	5156.8	5160.9	5126.6	4994.0	4792.8	4554.1	4273.7	3333.6	2186.4
20°	5337.3	5105.1	5125.8	5157.7	5151.2	5107.6	4915.4	4682.4	4407.0	3748.9	2659.9
17.5°	7119.2	5306.9	5079.0	5146.2	5159.4	5134.1	5011.2	4791.2	4527.3	4122.6	3085.2
15°	10024.0	6400.5	5217.0	5107.1	5157.0	5152.7	5096.5	4887.2	4628.7	4322.1	3399.3
12.5°	16867.6	8236.0	5366.4	5072.9	5147.9	5160.0	5125.9	4955.1	4705.5	4406.5	3660.4
10°	23504.6	11517.1	6426.7	5187.6	5121.4	5158.4	5138.3	5011.7	4769.2	4476.5	3876.6
7.5°	31348.4	15831.1	7570.3	5279.9	5100.4	5157.0	5148.1	5056.4	4819.5	4531.6	4046.4
5°	37176.0	19011.5	8408.6	5347.2	5085.1	5156.1	5155.3	5088.7	4855.7	4571.3	4168.6
2.5°	40771.9	20962.6	8920.7	5388.2	5075.8	5155.5	5159.6	5108.2	4877.6	4595.2	4242.3
0°	41988.2	21620.5	9093.0	5402.0	5072.7	5155.3	5161.0	5114.7	4884.9	4603.2	4266.9
-2.5°	40771.9	20962.6	8920.7	5388.2	5075.8	5155.5	5159.6	5108.2	4877.6	4595.2	4242.3
-5°	37176.0	19011.5	8408.6	5347.2	5085.1	5156.1	5155.3	5088.7	4855.7	4571.3	4168.6
-7.5°	31348.4	15831.1	7570.3	5279.9	5100.4	5157.0	5148.1	5056.4	4819.5	4531.6	4046.4
-10°	23504.6	11517.1	6426.7	5187.6	5121.4	5158.4	5138.3	5011.7	4769.2	4476.5	3876.6
-12.5°	16867.6	8236.0	5366.4	5072.9	5147.9	5160.0	5125.9	4955.1	4705.5	4406.5	3660.4
-15°	10024.0	6400.5	5217.0	5107.1	5157.0	5152.7	5096.5	4887.2	4628.7	4322.1	3399.3
-17.5°	7119.2	5306.9	5079.0	5146.2	5159.4	5134.1	5011.2	4791.2	4527.3	4122.6	3085.2
-20°	5337.3	5105.1	5125.8	5157.7	5151.2	5107.6	4915.4	4682.4	4407.0	3748.9	2659.9



REPORT NUMBER: P731265 (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°	5105.1	5118.9	5156.8	5160.9	5126.6	4994.0	4792.8	4554.1	4273.7	3333.6	2186.4
-25°	5125.8	5156.8	5160.5	5133.3	5042.1	4868.1	4652.4	4397.9	3801.2	2819.6	1737.8
-27.5°	5157.7	5160.9	5133.3	5058.3	4902.4	4707.5	4482.4	4143.0	3274.7	2215.5	1670.4
-30°	5151.2	5126.6	5042.1	4902.4	4726.1	4525.2	4292.0	3543.3	2615.2	1726.1	1598.1
-32.5°	5107.6	4994.0	4868.1	4707.5	4525.2	4312.8	3679.0	2858.5	1884.4	1644.0	1564.7
-35°	4915.4	4792.8	4652.4	4482.4	4292.0	3679.0	2940.1	2043.4	1671.8	1574.5	1542.9
-37.5°	4682.4	4554.1	4397.9	4143.0	3543.3	2858.5	2043.4	1681.2	1579.4	1550.1	1482.3
-40°	4407.0	4273.7	3801.2	3274.7	2615.2	1884.4	1671.8	1579.4	1552.5	1498.4	1401.3
-42.5°	3748.9	3333.6	2819.6	2215.5	1726.1	1644.0	1574.5	1550.1	1498.4	1409.2	1288.8
-45°	2659.9	2186.4	1737.8	1670.4	1598.1	1564.7	1542.9	1482.3	1401.3	1288.8	1164.5
-47.5°	1708.0	1655.4	1597.7	1568.4	1550.3	1519.6	1450.4	1375.3	1266.5	1154.3	1045.5
-50°	1574.6	1561.5	1547.1	1521.2	1464.1	1403.1	1319.4	1222.3	1123.8	1025.4	921.9
-52.5°	1529.3	1488.4	1443.3	1394.2	1323.3	1242.5	1157.3	1073.4	985.4	890.9	791.7
-55°	1390.1	1339.4	1280.0	1215.4	1146.9	1077.6	1003.9	924.7	839.8	751.1	662.5
-57.5°	1192.9	1145.2	1094.7	1039.6	980.0	914.4	843.8	769.2	693.2	614.5	535.3
-60°	1003.9	962.3	914.4	862.1	805.5	745.0	682.9	617.3	548.2	489.6	428.8
-62.5°	810.3	771.0	728.5	682.9	633.6	580.6	528.5	480.2	429.5	376.6	323.9
-65°	619.6	585.7	548.2	514.8	478.9	440.4	399.3	357.1	313.5	267.8	221.4
-67.5°	453.1	428.8	401.8	372.8	342.4	309.7	274.9	237.8	204.4	171.5	137.2
-70°	304.6	284.3	261.7	237.0	213.5	190.4	165.7	139.4	111.7	93.2	79.2
-72.5°	172.8	158.7	143.0	125.7	107.0	95.2	85.3	74.7	63.6	51.9	43.3
-75°	81.1	75.5	69.3	62.6	55.2	47.3	43.1	40.4	37.6	34.7	31.7
-77.5°	39.7	38.3	36.8	35.2	33.4	31.5	29.4	27.6	26.2	24.8	23.3
-80°	25.6	25.0	24.3	23.5	22.7	21.8	20.9	19.8	18.8	17.9	17.2
-82.5°	17.2	16.9	16.6	16.3	15.9	15.6	15.1	14.7	14.3	13.8	13.3
-85°	12.1	12.0	11.8	11.6	11.5	11.3	11.1	10.9	10.6	10.4	10.1
-87.5°	7.9	7.8	7.6	7.5	7.3	7.1	6.9	6.7	6.4	6.2	5.9
-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: P731265 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-2S-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°	5.7	5.4	5.1	4.8	4.5	4.2	3.9	3.5	3.2	2.9	2.5
85°	9.9	9.6	9.3	9.0	8.7	8.4	7.7	7.1	6.4	5.7	5.0
82.5°	12.7	12.3	11.9	11.4	11.0	10.5	10.0	9.5	9.0	8.5	7.6
80°	16.5	15.8	15.0	14.2	13.4	12.6	11.9	11.3	10.6	9.9	9.2
77.5°	21.8	20.1	18.5	17.4	16.4	15.3	14.2	13.2	12.2	11.3	10.5
75°	28.5	26.3	24.3	22.3	20.1	18.1	16.8	15.5	14.1	12.8	11.7
72.5°	39.6	35.7	31.7	27.7	25.2	22.7	20.1	17.8	16.2	14.6	13.0
70°	64.6	49.4	41.6	36.8	32.0	27.4	24.4	21.4	18.3	16.4	14.6
67.5°	101.9	84.8	67.1	48.9	40.5	34.9	29.2	25.3	21.8	18.3	16.2
65°	181.6	140.3	100.2	80.0	59.2	42.8	36.4	29.9	25.3	21.4	17.8
62.5°	269.1	215.3	168.4	120.2	87.7	64.3	43.5	36.4	29.2	24.4	20.1
60°	366.6	304.6	240.7	185.4	131.4	90.3	64.3	42.8	34.9	27.4	22.7
57.5°	466.8	396.0	326.1	255.0	191.1	131.4	87.7	59.2	40.5	32.0	25.2
55°	570.8	489.8	411.2	333.3	255.0	185.4	120.2	80.0	48.9	36.8	27.7
52.5°	691.6	590.0	497.5	411.2	326.1	240.7	168.4	100.2	67.1	41.6	31.7
50°	812.2	701.3	590.0	489.8	396.0	304.6	215.3	140.3	84.8	49.4	35.7
47.5°	932.2	812.2	691.6	570.8	466.8	366.6	269.1	181.6	101.9	64.6	39.6
45°	1045.5	921.9	791.7	662.5	535.3	428.8	323.9	221.4	137.2	79.2	43.3
42.5°	1154.3	1025.4	890.9	751.1	614.5	489.6	376.6	267.8	171.5	93.2	51.9
40°	1266.5	1123.8	985.4	839.8	693.2	548.2	429.5	313.5	204.4	111.7	63.6
37.5°	1375.3	1222.3	1073.4	924.7	769.2	617.3	480.2	357.1	237.8	139.4	74.7
35°	1450.4	1319.4	1157.3	1003.9	843.8	682.9	528.5	399.3	274.9	165.7	85.3
32.5°	1519.6	1403.1	1242.5	1077.6	914.4	745.0	580.6	440.4	309.7	190.4	95.2
30°	1550.3	1464.1	1323.3	1146.9	980.0	805.5	633.6	478.9	342.4	213.5	107.0
27.5°	1568.4	1521.2	1394.2	1215.4	1039.6	862.1	682.9	514.8	372.8	237.0	125.7
25°	1597.7	1547.1	1443.3	1280.0	1094.7	914.4	728.5	548.2	401.8	261.7	143.0
22.5°	1655.4	1561.5	1488.4	1339.4	1145.2	962.3	771.0	585.7	428.8	284.3	158.7
20°	1708.0	1574.6	1529.3	1390.1	1192.9	1003.9	810.3	619.6	453.1	304.6	172.8
17.5°	1811.3	1601.3	1544.6	1423.6	1236.7	1041.0	845.2	649.7	474.8	322.7	185.4
15°	2156.5	1639.4	1554.1	1453.0	1275.1	1073.4	875.7	676.0	493.6	338.5	196.3
12.5°	2452.2	1672.0	1562.1	1478.0	1307.8	1101.0	901.6	698.4	509.7	351.9	205.7
10°	2696.8	1699.0	1568.8	1498.7	1334.8	1123.8	923.0	716.8	522.9	362.9	213.3
7.5°	2888.6	1720.1	1574.0	1514.9	1355.8	1141.5	939.7	731.1	533.2	371.5	219.3
5°	3026.6	1735.2	1577.7	1526.5	1371.0	1154.3	951.7	741.4	540.6	377.7	223.6
2.5°	3109.7	1744.3	1579.9	1533.5	1380.1	1161.9	958.9	747.6	545.0	381.4	226.1
0°	3137.5	1747.4	1580.7	1535.8	1383.1	1164.5	961.3	749.7	546.5	382.6	227.0
-2.5°	3109.7	1744.3	1579.9	1533.5	1380.1	1161.9	958.9	747.6	545.0	381.4	226.1
-5°	3026.6	1735.2	1577.7	1526.5	1371.0	1154.3	951.7	741.4	540.6	377.7	223.6
-7.5°	2888.6	1720.1	1574.0	1514.9	1355.8	1141.5	939.7	731.1	533.2	371.5	219.3
-10°	2696.8	1699.0	1568.8	1498.7	1334.8	1123.8	923.0	716.8	522.9	362.9	213.3
-12.5°	2452.2	1672.0	1562.1	1478.0	1307.8	1101.0	901.6	698.4	509.7	351.9	205.7
-15°	2156.5	1639.4	1554.1	1453.0	1275.1	1073.4	875.7	676.0	493.6	338.5	196.3
-17.5°	1811.3	1601.3	1544.6	1423.6	1236.7	1041.0	845.2	649.7	474.8	322.7	185.4
-20°	1708.0	1574.6	1529.3	1390.1	1192.9	1003.9	810.3	619.6	453.1	304.6	172.8



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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°	1655.4	1561.5	1488.4	1339.4	1145.2	962.3	771.0	585.7	428.8	284.3	158.7
-25°	1597.7	1547.1	1443.3	1280.0	1094.7	914.4	728.5	548.2	401.8	261.7	143.0
-27.5°	1568.4	1521.2	1394.2	1215.4	1039.6	862.1	682.9	514.8	372.8	237.0	125.7
-30°	1550.3	1464.1	1323.3	1146.9	980.0	805.5	633.6	478.9	342.4	213.5	107.0
-32.5°	1519.6	1403.1	1242.5	1077.6	914.4	745.0	580.6	440.4	309.7	190.4	95.2
-35°	1450.4	1319.4	1157.3	1003.9	843.8	682.9	528.5	399.3	274.9	165.7	85.3
-37.5°	1375.3	1222.3	1073.4	924.7	769.2	617.3	480.2	357.1	237.8	139.4	74.7
-40°	1266.5	1123.8	985.4	839.8	693.2	548.2	429.5	313.5	204.4	111.7	63.6
-42.5°	1154.3	1025.4	890.9	751.1	614.5	489.6	376.6	267.8	171.5	93.2	51.9
-45°	1045.5	921.9	791.7	662.5	535.3	428.8	323.9	221.4	137.2	79.2	43.3
-47.5°	932.2	812.2	691.6	570.8	466.8	366.6	269.1	181.6	101.9	64.6	39.6
-50°	812.2	701.3	590.0	489.8	396.0	304.6	215.3	140.3	84.8	49.4	35.7
-52.5°	691.6	590.0	497.5	411.2	326.1	240.7	168.4	100.2	67.1	41.6	31.7
-55°	570.8	489.8	411.2	333.3	255.0	185.4	120.2	80.0	48.9	36.8	27.7
-57.5°	466.8	396.0	326.1	255.0	191.1	131.4	87.7	59.2	40.5	32.0	25.2
-60°	366.6	304.6	240.7	185.4	131.4	90.3	64.3	42.8	34.9	27.4	22.7
-62.5°	269.1	215.3	168.4	120.2	87.7	64.3	43.5	36.4	29.2	24.4	20.1
-65°	181.6	140.3	100.2	80.0	59.2	42.8	36.4	29.9	25.3	21.4	17.8
-67.5°	101.9	84.8	67.1	48.9	40.5	34.9	29.2	25.3	21.8	18.3	16.2
-70°	64.6	49.4	41.6	36.8	32.0	27.4	24.4	21.4	18.3	16.4	14.6
-72.5°	39.6	35.7	31.7	27.7	25.2	22.7	20.1	17.8	16.2	14.6	13.0
-75°	28.5	26.3	24.3	22.3	20.1	18.1	16.8	15.5	14.1	12.8	11.7
-77.5°	21.8	20.1	18.5	17.4	16.4	15.3	14.2	13.2	12.2	11.3	10.5
-80°	16.5	15.8	15.0	14.2	13.4	12.6	11.9	11.3	10.6	9.9	9.2
-82.5°	12.7	12.3	11.9	11.4	11.0	10.5	10.0	9.5	9.0	8.5	7.6
-85°	9.9	9.6	9.3	9.0	8.7	8.4	7.7	7.1	6.4	5.7	5.0
-87.5°	5.7	5.4	5.1	4.8	4.5	4.2	3.9	3.5	3.2	2.9	2.5
-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):

	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°	2.2	1.8	1.5	1.1	0.7	0.4	0.0
85°	4.3	3.6	2.9	2.2	1.5	0.7	0.0
82.5°	6.5	5.4	4.4	3.3	2.2	1.1	0.0
80°	8.5	7.2	5.8	4.4	2.9	1.5	0.0
77.5°	9.6	8.7	7.2	5.4	3.6	1.8	0.0
75°	10.7	9.6	8.5	6.5	4.3	2.2	0.0
72.5°	11.7	10.5	9.2	7.6	5.0	2.5	0.0
70°	12.8	11.3	9.9	8.5	5.7	2.9	0.0
67.5°	14.1	12.2	10.6	9.0	6.4	3.2	0.0
65°	15.5	13.2	11.3	9.5	7.1	3.5	0.0
62.5°	16.8	14.2	11.9	10.0	7.7	3.9	0.0
60°	18.1	15.3	12.6	10.5	8.4	4.2	0.0
57.5°	20.1	16.4	13.4	11.0	8.7	4.5	0.0
55°	22.3	17.4	14.2	11.4	9.0	4.8	0.0
52.5°	24.3	18.5	15.0	11.9	9.3	5.1	0.0
50°	26.3	20.1	15.8	12.3	9.6	5.4	0.0
47.5°	28.5	21.8	16.5	12.7	9.9	5.7	0.0
45°	31.7	23.3	17.2	13.3	10.1	5.9	0.0
42.5°	34.7	24.8	17.9	13.8	10.4	6.2	0.0
40°	37.6	26.2	18.8	14.3	10.6	6.4	0.0
37.5°	40.4	27.6	19.8	14.7	10.9	6.7	0.0
35°	43.1	29.4	20.9	15.1	11.1	6.9	0.0
32.5°	47.3	31.5	21.8	15.6	11.3	7.1	0.0
30°	55.2	33.4	22.7	15.9	11.5	7.3	0.0
27.5°	62.6	35.2	23.5	16.3	11.6	7.5	0.0
25°	69.3	36.8	24.3	16.6	11.8	7.6	0.0
22.5°	75.5	38.3	25.0	16.9	12.0	7.8	0.0
20°	81.1	39.7	25.6	17.2	12.1	7.9	0.0
17.5°	86.0	40.9	26.2	17.4	12.2	8.0	0.0
15°	90.3	41.9	26.7	17.6	12.3	8.1	0.0
12.5°	93.9	42.8	27.1	17.8	12.4	8.2	0.0
10°	96.9	43.5	27.4	17.9	12.5	8.3	0.0
7.5°	99.3	44.1	27.7	18.1	12.5	8.3	0.0
5°	101.0	44.5	27.8	18.1	12.6	8.4	0.0
2.5°	102.0	44.7	28.0	18.2	12.6	8.4	0.0
0°	102.3	44.8	28.0	18.2	12.6	8.4	0.0
-2.5°	102.0	44.7	28.0	18.2	12.6	8.4	0.0
-5°	101.0	44.5	27.8	18.1	12.6	8.4	0.0
-7.5°	99.3	44.1	27.7	18.1	12.5	8.3	0.0
-10°	96.9	43.5	27.4	17.9	12.5	8.3	0.0
-12.5°	93.9	42.8	27.1	17.8	12.4	8.2	0.0
-15°	90.3	41.9	26.7	17.6	12.3	8.1	0.0
-17.5°	86.0	40.9	26.2	17.4	12.2	8.0	0.0
-20°	81.1	39.7	25.6	17.2	12.1	7.9	0.0



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 CATALOG NUMBER: EPH-LS-08-0530N-57-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	75.5	38.3	25.0	16.9	12.0	7.8	0.0
-25°	69.3	36.8	24.3	16.6	11.8	7.6	0.0
-27.5°	62.6	35.2	23.5	16.3	11.6	7.5	0.0
-30°	55.2	33.4	22.7	15.9	11.5	7.3	0.0
-32.5°	47.3	31.5	21.8	15.6	11.3	7.1	0.0
-35°	43.1	29.4	20.9	15.1	11.1	6.9	0.0
-37.5°	40.4	27.6	19.8	14.7	10.9	6.7	0.0
-40°	37.6	26.2	18.8	14.3	10.6	6.4	0.0
-42.5°	34.7	24.8	17.9	13.8	10.4	6.2	0.0
-45°	31.7	23.3	17.2	13.3	10.1	5.9	0.0
-47.5°	28.5	21.8	16.5	12.7	9.9	5.7	0.0
-50°	26.3	20.1	15.8	12.3	9.6	5.4	0.0
-52.5°	24.3	18.5	15.0	11.9	9.3	5.1	0.0
-55°	22.3	17.4	14.2	11.4	9.0	4.8	0.0
-57.5°	20.1	16.4	13.4	11.0	8.7	4.5	0.0
-60°	18.1	15.3	12.6	10.5	8.4	4.2	0.0
-62.5°	16.8	14.2	11.9	10.0	7.7	3.9	0.0
-65°	15.5	13.2	11.3	9.5	7.1	3.5	0.0
-67.5°	14.1	12.2	10.6	9.0	6.4	3.2	0.0
-70°	12.8	11.3	9.9	8.5	5.7	2.9	0.0
-72.5°	11.7	10.5	9.2	7.6	5.0	2.5	0.0
-75°	10.7	9.6	8.5	6.5	4.3	2.2	0.0
-77.5°	9.6	8.7	7.2	5.4	3.6	1.8	0.0
-80°	8.5	7.2	5.8	4.4	2.9	1.5	0.0
-82.5°	6.5	5.4	4.4	3.3	2.2	1.1	0.0
-85°	4.3	3.6	2.9	2.2	1.5	0.7	0.0
-87.5°	2.2	1.8	1.5	1.1	0.7	0.4	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

