

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: P731234 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-70-1S-HEG**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731234 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-61)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-LS-08-0530N-40-70-1S-HEG  
Description: EPHEBUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 1S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

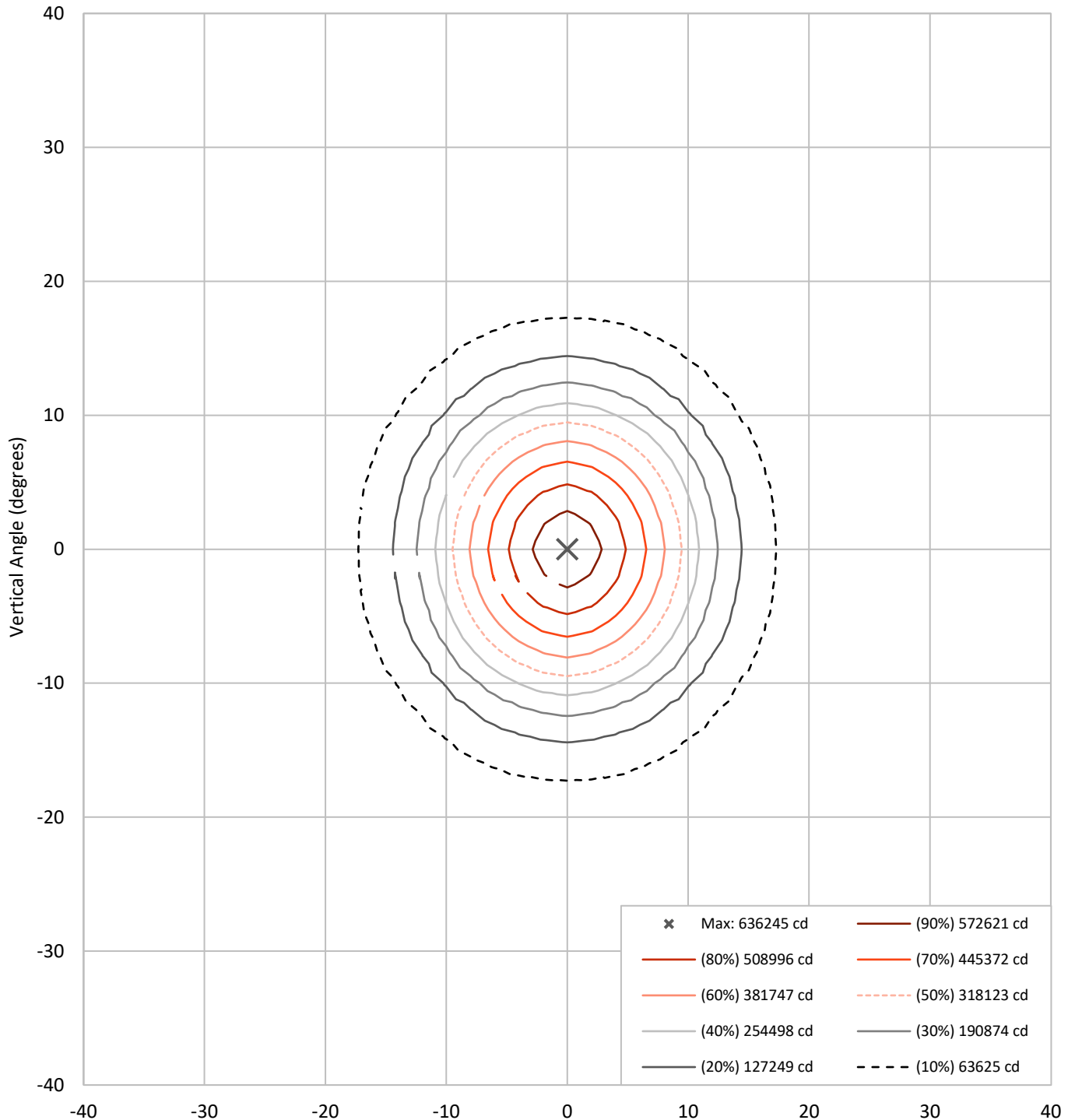
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	86189.3 lumens	Max Intensity:	636245 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	149.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	19°H x 19°V	Field Angle (10%):	34.3°H x 34.3°V
Beam Lumens:	37148.7 lumens	Field Lumens:	68436 lumens
Beam Efficiency:	43.1%	Field Efficiency:	79.4%

Input Watts (W): 577.1  
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





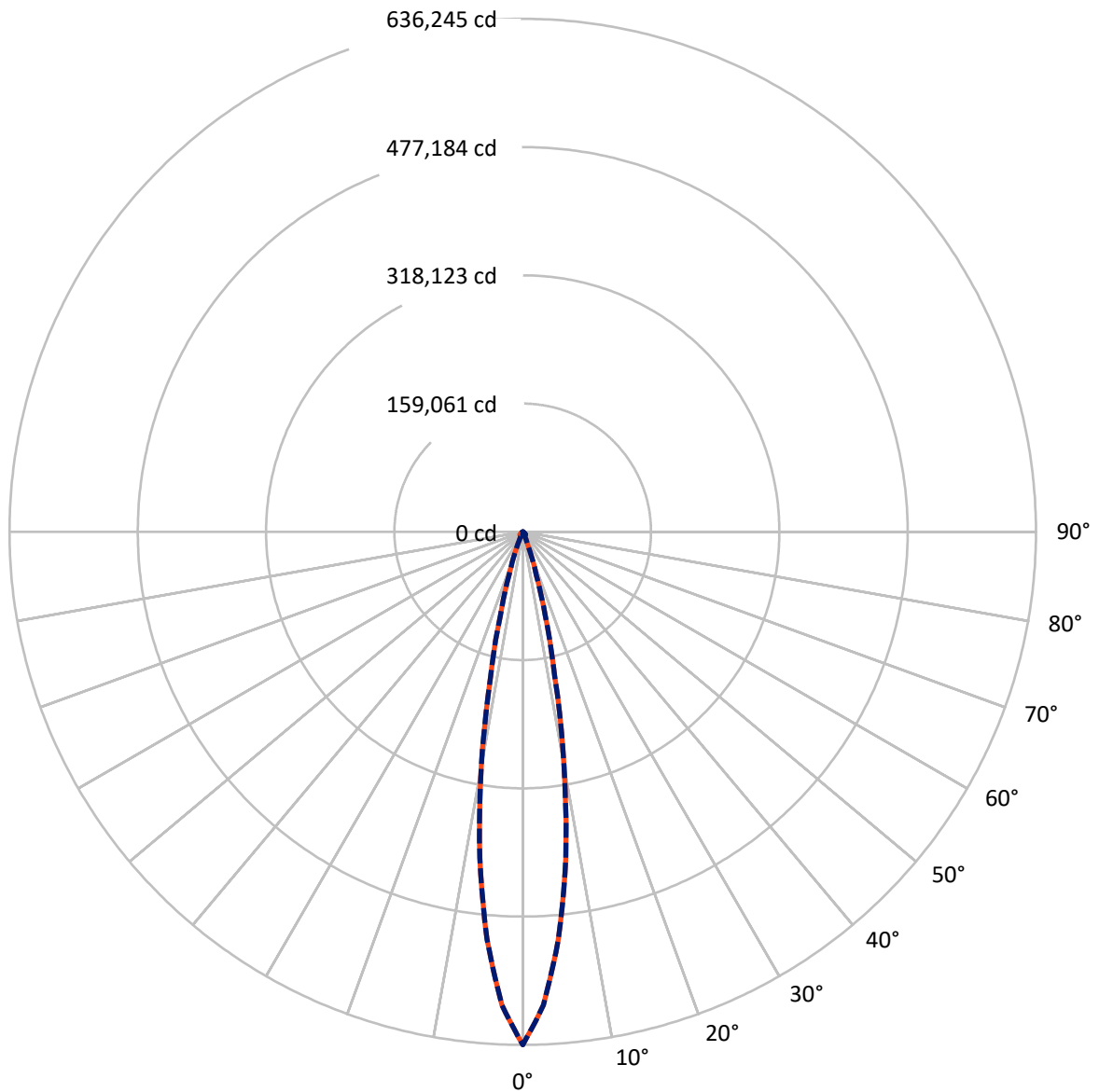
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### Lumen Table

90	0.1	0.8	3.0	7.5	9.9	7.5	3.0	0.8	0.1							
80	0.1	0.8	3.0	7.5	9.9	7.5	3.0	0.8	0.1							
70	0.4	0.5	1.8	5.4	10.8	16.8	21.8	24.5	24.5	21.8	16.8	10.8	5.4	1.8	0.5	0.4
60		1.4	6.3	15.6	26.9	36.3	42.5	45.8	45.8	42.5	36.3	26.9	15.6	6.3	1.4	
50	1.0	3.3	12.8	26.6	38.9	65.8	103.7	124.6	124.6	103.7	65.8	38.9	26.6	12.8	3.3	1.0
40		5.8	19.0	33.6	79.5	136.1	150.3	150.6	150.6	150.3	136.1	79.5	33.6	19.0	5.8	
30	2.2	8.1	23.1	52.0	123.1	136.3	149.8	259.7	259.7	149.8	136.3	123.1	52.0	23.1	8.1	2.2
20		9.8	25.4	77.0	127.4	140.7	823.1	3073.4	3073.4	823.1	140.7	127.4	77.0	25.4	9.8	
10	2.7	10.7	26.5	89.4	123.6	238.9	2998.9	11802.0	11802.0	2998.9	238.9	123.6	89.4	26.5	10.7	2.7
0		10.7	26.5	89.4	123.6	238.9	2998.9	11802.0	11802.0	2998.9	238.9	123.6	89.4	26.5	10.7	
-10	2.2	9.8	25.4	77.0	127.4	140.7	823.1	3073.4	3073.4	823.1	140.7	127.4	77.0	25.4	9.8	2.2
-20		8.1	23.1	52.0	123.1	136.3	149.8	259.7	259.7	149.8	136.3	123.1	52.0	23.1	8.1	
-30	1.0	5.8	19.0	33.6	79.5	136.1	150.3	150.6	150.6	150.3	136.1	79.5	33.6	19.0	5.8	1.0
-40		3.3	12.8	26.6	38.9	65.8	103.7	124.6	124.6	103.7	65.8	38.9	26.6	12.8	3.3	
-50	0.4	1.4	6.3	15.6	26.9	36.3	42.5	45.8	45.8	42.5	36.3	26.9	15.6	6.3	1.4	0.4
-60		0.5	1.8	5.4	10.8	16.8	21.8	24.5	24.5	21.8	16.8	10.8	5.4	1.8	0.5	
-70	0.1	0.8	3.0	7.5	9.9	7.5	3.0	0.8	0.1							
-80		0.1	0.8	3.0	7.5	9.9	7.5	3.0	0.8	0.1						
-90	0.1	0.8	3.0	7.5	9.9	7.5	3.0	0.8	0.1							

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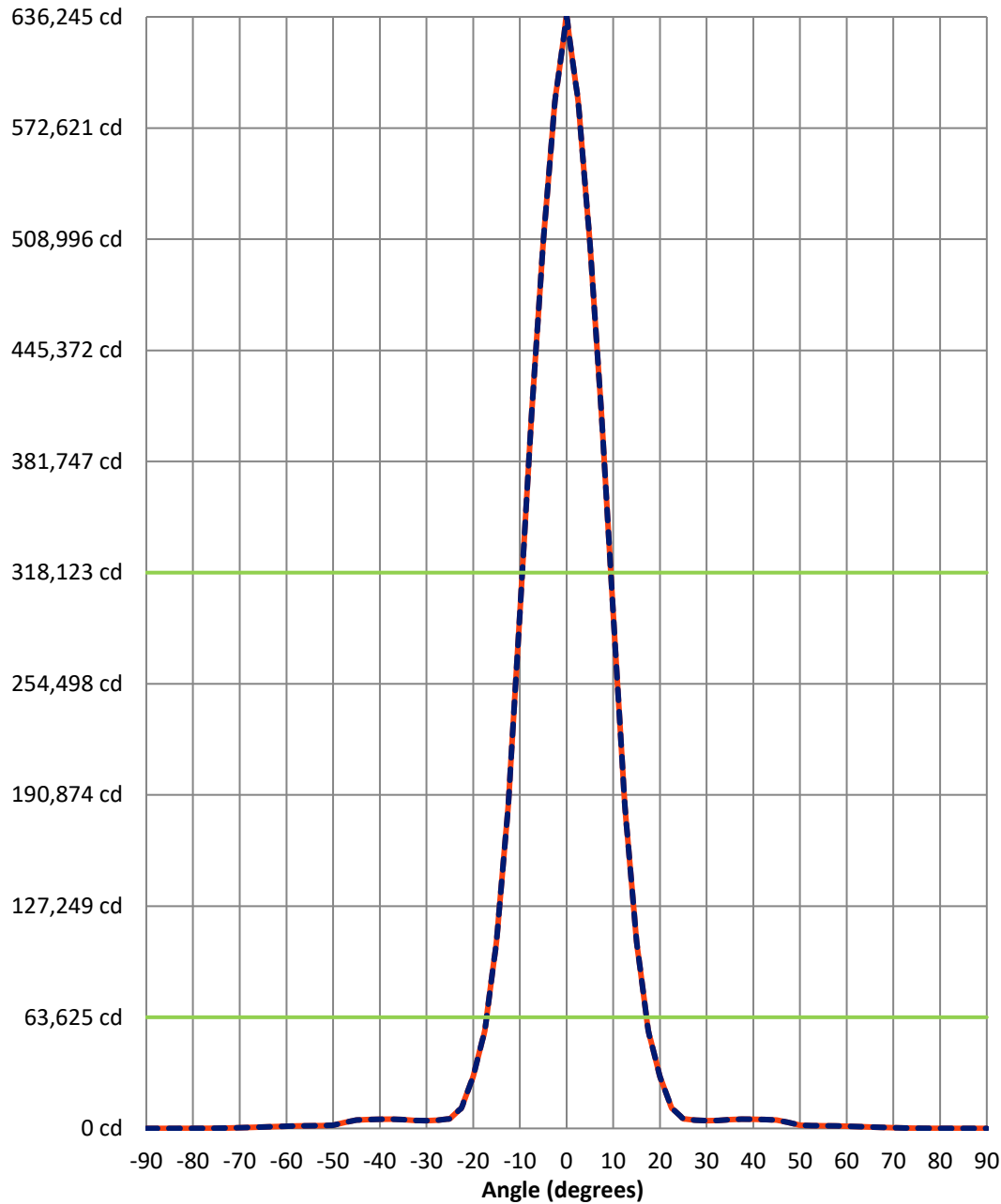
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
H Angle: 19°  
V Angle: 19°  
Lumens: 37148.7  
Efficiency: 43.1%

**Field:**  
H Angle: 34.3°  
V Angle: 34.3°  
Lumens: 68436  
Efficiency: 79.4%

**Spill:**  
Lumens: 17753.3  
Efficiency: 20.6%

— 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	0.3	0.5	0.8	1.1	1.3	1.6	1.8	2.1	2.3	2.6
85°	0.0	0.5	1.1	1.6	2.1	2.6	3.2	3.7	4.2	4.7	5.2
82.5°	0.0	0.8	1.6	2.4	3.2	4.0	4.7	5.5	6.2	6.8	7.3
80°	0.0	1.1	2.1	3.2	4.2	5.3	6.2	7.0	7.8	8.5	9.2
77.5°	0.0	1.3	2.6	4.0	5.3	6.4	7.4	8.4	9.3	10.2	11.6
75°	0.0	1.6	3.2	4.7	6.2	7.4	8.6	9.7	11.0	13.2	15.4
72.5°	0.0	1.8	3.7	5.5	7.0	8.4	9.7	11.4	14.0	16.6	19.1
70°	0.0	2.1	4.2	6.2	7.8	9.3	11.0	14.0	17.0	19.9	23.3
67.5°	0.0	2.3	4.7	6.8	8.5	10.2	13.2	16.6	19.9	23.7	27.5
65°	0.0	2.6	5.2	7.3	9.2	11.6	15.4	19.1	23.3	27.5	32.6
62.5°	0.0	2.8	5.6	7.9	10.0	13.4	17.5	21.9	26.6	31.8	39.7
60°	0.0	3.0	6.1	8.4	10.7	15.1	19.6	24.7	29.8	38.0	46.6
57.5°	0.0	3.3	6.4	8.9	12.0	16.8	21.9	27.5	34.8	44.2	64.0
55°	0.0	3.5	6.8	9.4	13.3	18.5	24.2	30.2	40.1	53.2	86.0
52.5°	0.0	3.7	7.1	9.9	14.6	20.1	26.5	34.5	45.3	72.5	107.5
50°	0.0	3.9	7.4	10.4	15.8	21.9	28.7	38.9	53.7	91.2	147.8
47.5°	0.0	4.1	7.7	10.9	17.0	23.7	31.0	43.1	69.7	109.3	189.1
45°	0.0	4.3	8.0	11.8	18.2	25.4	34.5	47.2	85.2	144.7	229.0
42.5°	0.0	4.5	8.3	12.6	19.3	27.0	37.8	56.3	100.1	179.1	278.9
40°	0.0	4.7	8.5	13.4	20.4	28.5	41.0	68.7	119.1	212.0	328.6
37.5°	0.0	4.8	8.8	14.1	21.6	30.0	44.0	80.5	146.9	246.4	376.0
35°	0.0	5.0	9.0	14.8	22.7	32.1	46.9	91.7	173.2	286.6	422.7
32.5°	0.0	5.1	9.3	15.5	23.7	34.3	51.4	102.2	197.9	324.6	469.3
30°	0.0	5.3	9.5	16.1	24.7	36.4	59.8	114.4	221.1	360.1	513.0
27.5°	0.0	5.4	9.7	16.7	25.6	38.3	67.6	133.2	245.5	393.2	553.6
25°	0.0	5.5	9.8	17.2	26.5	40.1	74.8	150.4	272.3	425.6	591.5
22.5°	0.0	5.6	10.0	17.7	27.2	41.7	81.3	166.1	296.9	456.2	632.8
20°	0.0	5.7	10.1	18.1	27.9	43.2	87.2	180.3	319.0	483.8	670.1
17.5°	0.0	5.8	10.3	18.5	28.5	44.5	92.4	192.9	338.7	508.3	703.3
15°	0.0	5.9	10.4	18.9	29.0	45.6	97.0	203.9	355.8	529.7	732.3
12.5°	0.0	6.0	10.5	19.1	29.5	46.6	100.8	213.2	370.4	547.9	757.0
10°	0.0	6.0	10.6	19.4	29.8	47.4	104.0	220.9	382.4	562.8	777.3
7.5°	0.0	6.0	10.6	19.6	30.1	48.0	106.5	226.9	391.7	574.5	793.1
5°	0.0	6.1	10.7	19.7	30.3	48.4	108.3	231.2	398.4	582.9	804.5
2.5°	0.0	6.1	10.7	19.8	30.5	48.7	109.3	233.7	402.5	587.9	811.3
0°	0.0	6.1	10.7	19.8	30.5	48.7	109.3	233.7	402.5	587.9	811.3
-2.5°	0.0	6.1	10.7	19.8	30.5	48.7	109.3	233.7	402.5	587.9	811.3
-5°	0.0	6.1	10.7	19.7	30.3	48.4	108.3	231.2	398.4	582.9	804.5
-7.5°	0.0	6.0	10.6	19.6	30.1	48.0	106.5	226.9	391.7	574.5	793.1
-10°	0.0	6.0	10.6	19.4	29.8	47.4	104.0	220.9	382.4	562.8	777.3
-12.5°	0.0	6.0	10.5	19.1	29.5	46.6	100.8	213.2	370.4	547.9	757.0
-15°	0.0	5.9	10.4	18.9	29.0	45.6	97.0	203.9	355.8	529.7	732.3
-17.5°	0.0	5.8	10.3	18.5	28.5	44.5	92.4	192.9	338.7	508.3	703.3
-20°	0.0	5.7	10.1	18.1	27.9	43.2	87.2	180.3	319.0	483.8	670.1



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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	5.6	10.0	17.7	27.2	41.7	81.3	166.1	296.9	456.2	632.8
-25°	0.0	5.5	9.8	17.2	26.5	40.1	74.8	150.4	272.3	425.6	591.5
-27.5°	0.0	5.4	9.7	16.7	25.6	38.3	67.6	133.2	245.5	393.2	553.6
-30°	0.0	5.3	9.5	16.1	24.7	36.4	59.8	114.4	221.1	360.1	513.0
-32.5°	0.0	5.1	9.3	15.5	23.7	34.3	51.4	102.2	197.9	324.6	469.3
-35°	0.0	5.0	9.0	14.8	22.7	32.1	46.9	91.7	173.2	286.6	422.7
-37.5°	0.0	4.8	8.8	14.1	21.6	30.0	44.0	80.5	146.9	246.4	376.0
-40°	0.0	4.7	8.5	13.4	20.4	28.5	41.0	68.7	119.1	212.0	328.6
-42.5°	0.0	4.5	8.3	12.6	19.3	27.0	37.8	56.3	100.1	179.1	278.9
-45°	0.0	4.3	8.0	11.8	18.2	25.4	34.5	47.2	85.2	144.7	229.0
-47.5°	0.0	4.1	7.7	10.9	17.0	23.7	31.0	43.1	69.7	109.3	189.1
-50°	0.0	3.9	7.4	10.4	15.8	21.9	28.7	38.9	53.7	91.2	147.8
-52.5°	0.0	3.7	7.1	9.9	14.6	20.1	26.5	34.5	45.3	72.5	107.5
-55°	0.0	3.5	6.8	9.4	13.3	18.5	24.2	30.2	40.1	53.2	86.0
-57.5°	0.0	3.3	6.4	8.9	12.0	16.8	21.9	27.5	34.8	44.2	64.0
-60°	0.0	3.0	6.1	8.4	10.7	15.1	19.6	24.7	29.8	38.0	46.6
-62.5°	0.0	2.8	5.6	7.9	10.0	13.4	17.5	21.9	26.6	31.8	39.7
-65°	0.0	2.6	5.2	7.3	9.2	11.6	15.4	19.1	23.3	27.5	32.6
-67.5°	0.0	2.3	4.7	6.8	8.5	10.2	13.2	16.6	19.9	23.7	27.5
-70°	0.0	2.1	4.2	6.2	7.8	9.3	11.0	14.0	17.0	19.9	23.3
-72.5°	0.0	1.8	3.7	5.5	7.0	8.4	9.7	11.4	14.0	16.6	19.1
-75°	0.0	1.6	3.2	4.7	6.2	7.4	8.6	9.7	11.0	13.2	15.4
-77.5°	0.0	1.3	2.6	4.0	5.3	6.4	7.4	8.4	9.3	10.2	11.6
-80°	0.0	1.1	2.1	3.2	4.2	5.3	6.2	7.0	7.8	8.5	9.2
-82.5°	0.0	0.8	1.6	2.4	3.2	4.0	4.7	5.5	6.2	6.8	7.3
-85°	0.0	0.5	1.1	1.6	2.1	2.6	3.2	3.7	4.2	4.7	5.2
-87.5°	0.0	0.3	0.5	0.8	1.1	1.3	1.6	1.8	2.1	2.3	2.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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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°	2.8	3.0	3.3	3.5	3.7	3.9	4.1	4.3	4.5	4.7	4.8
85°	5.6	6.1	6.4	6.8	7.1	7.4	7.7	8.0	8.3	8.5	8.8
82.5°	7.9	8.4	8.9	9.4	9.9	10.4	10.9	11.8	12.6	13.4	14.1
80°	10.0	10.7	12.0	13.3	14.6	15.8	17.0	18.2	19.3	20.4	21.6
77.5°	13.4	15.1	16.8	18.5	20.1	21.9	23.7	25.4	27.0	28.5	30.0
75°	17.5	19.6	21.9	24.2	26.5	28.7	31.0	34.5	37.8	41.0	44.0
72.5°	21.9	24.7	27.5	30.2	34.5	38.9	43.1	47.2	56.3	68.7	80.5
70°	26.6	29.8	34.8	40.1	45.3	53.7	69.7	85.2	100.1	119.1	146.9
67.5°	31.8	38.0	44.2	53.2	72.5	91.2	109.3	144.7	179.1	212.0	246.4
65°	39.7	46.6	64.0	86.0	107.5	147.8	189.1	229.0	278.9	328.6	376.0
62.5°	47.4	69.5	94.2	127.6	175.9	222.9	280.4	340.0	397.3	456.9	514.5
60°	69.5	97.0	138.9	192.9	249.6	319.0	386.4	456.2	525.1	591.5	667.6
57.5°	94.2	138.9	198.6	265.0	342.4	419.0	499.2	576.9	664.6	751.3	835.0
55°	127.6	192.9	265.0	350.2	436.3	525.3	616.4	717.5	815.2	912.2	1005.2
52.5°	175.9	249.6	342.4	436.3	534.0	637.6	749.5	859.6	968.2	1070.7	1163.7
50°	222.9	319.0	419.0	525.3	637.6	760.2	882.0	1002.0	1113.0	1216.9	1309.5
47.5°	280.4	386.4	499.2	616.4	749.5	882.0	1013.4	1134.2	1249.2	1347.5	1440.7
45°	340.0	456.2	576.9	717.5	859.6	1002.0	1134.2	1260.0	1366.6	1454.7	1487.0
42.5°	397.3	525.1	664.6	815.2	968.2	1113.0	1249.2	1366.6	1457.8	1493.5	1534.6
40°	456.9	591.5	751.3	912.2	1070.7	1216.9	1347.5	1454.7	1493.5	1539.0	1588.2
37.5°	514.5	667.6	835.0	1005.2	1163.7	1309.5	1440.7	1487.0	1534.6	1588.2	1735.7
35°	569.2	740.0	916.6	1090.2	1252.4	1392.8	1474.3	1521.4	1579.2	1722.2	2172.7
32.5°	627.2	808.4	993.9	1168.1	1326.9	1455.4	1501.9	1561.3	1682.0	1989.3	3112.5
30°	685.6	874.6	1065.0	1241.4	1396.2	1479.8	1535.0	1615.8	1800.6	2832.0	3921.9
27.5°	740.0	936.6	1127.9	1303.6	1451.8	1502.6	1568.1	1720.1	2371.1	3599.2	4642.7
25°	790.2	993.9	1186.2	1359.0	1471.4	1529.1	1615.2	1817.5	3067.7	4232.0	4902.1
22.5°	836.9	1046.3	1239.6	1409.9	1489.5	1555.5	1698.6	2337.5	3669.9	4797.5	5033.8
20°	879.9	1090.2	1284.3	1450.2	1505.8	1579.4	1774.4	2883.6	4169.0	4909.8	5123.1
17.5°	918.1	1129.4	1321.9	1463.6	1524.6	1620.4	1905.0	3373.9	4618.3	5011.1	5189.0
15°	951.5	1163.7	1354.8	1475.3	1541.8	1675.4	2303.0	3748.9	4838.2	5090.6	5246.3
12.5°	979.9	1192.9	1382.8	1485.3	1556.6	1722.5	2644.0	4062.7	4909.4	5137.1	5262.1
10°	1003.3	1216.9	1406.0	1493.6	1568.7	1761.4	2926.0	4322.6	4968.4	5175.7	5275.2
7.5°	1021.6	1235.7	1424.0	1500.0	1578.3	1791.9	3147.3	4526.7	5014.8	5206.2	5285.6
5°	1034.7	1249.2	1437.0	1504.7	1585.1	1813.8	3306.3	4673.5	5048.2	5228.1	5293.1
2.5°	1042.6	1257.3	1444.8	1507.5	1589.2	1827.0	3402.2	4762.1	5068.4	5241.4	5297.6
0°	1045.2	1260.0	1447.4	1508.4	1590.6	1831.4	3434.2	4791.7	5075.1	5245.8	5299.1
-2.5°	1042.6	1257.3	1444.8	1507.5	1589.2	1827.0	3402.2	4762.1	5068.4	5241.4	5297.6
-5°	1034.7	1249.2	1437.0	1504.7	1585.1	1813.8	3306.3	4673.5	5048.2	5228.1	5293.1
-7.5°	1021.6	1235.7	1424.0	1500.0	1578.3	1791.9	3147.3	4526.7	5014.8	5206.2	5285.6
-10°	1003.3	1216.9	1406.0	1493.6	1568.7	1761.4	2926.0	4322.6	4968.4	5175.7	5275.2
-12.5°	979.9	1192.9	1382.8	1485.3	1556.6	1722.5	2644.0	4062.7	4909.4	5137.1	5262.1
-15°	951.5	1163.7	1354.8	1475.3	1541.8	1675.4	2303.0	3748.9	4838.2	5090.6	5246.3
-17.5°	918.1	1129.4	1321.9	1463.6	1524.6	1620.4	1905.0	3373.9	4618.3	5011.1	5189.0
-20°	879.9	1090.2	1284.3	1450.2	1505.8	1579.4	1774.4	2883.6	4169.0	4909.8	5123.1



REPORT NUMBER: P731234 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	836.9	1046.3	1239.6	1409.9	1489.5	1555.5	1698.6	2337.5	3669.9	4797.5	5033.8
-25°	790.2	993.9	1186.2	1359.0	1471.4	1529.1	1615.2	1817.5	3067.7	4232.0	4902.1
-27.5°	740.0	936.6	1127.9	1303.6	1451.8	1502.6	1568.1	1720.1	2371.1	3599.2	4642.7
-30°	685.6	874.6	1065.0	1241.4	1396.2	1479.8	1535.0	1615.8	1800.6	2832.0	3921.9
-32.5°	627.2	808.4	993.9	1168.1	1326.9	1455.4	1501.9	1561.3	1682.0	1989.3	3112.5
-35°	569.2	740.0	916.6	1090.2	1252.4	1392.8	1474.3	1521.4	1579.2	1722.2	2172.7
-37.5°	514.5	667.6	835.0	1005.2	1163.7	1309.5	1440.7	1487.0	1534.6	1588.2	1735.7
-40°	456.9	591.5	751.3	912.2	1070.7	1216.9	1347.5	1454.7	1493.5	1539.0	1588.2
-42.5°	397.3	525.1	664.6	815.2	968.2	1113.0	1249.2	1366.6	1457.8	1493.5	1534.6
-45°	340.0	456.2	576.9	717.5	859.6	1002.0	1134.2	1260.0	1366.6	1454.7	1487.0
-47.5°	280.4	386.4	499.2	616.4	749.5	882.0	1013.4	1134.2	1249.2	1347.5	1440.7
-50°	222.9	319.0	419.0	525.3	637.6	760.2	882.0	1002.0	1113.0	1216.9	1309.5
-52.5°	175.9	249.6	342.4	436.3	534.0	637.6	749.5	859.6	968.2	1070.7	1163.7
-55°	127.6	192.9	265.0	350.2	436.3	525.3	616.4	717.5	815.2	912.2	1005.2
-57.5°	94.2	138.9	198.6	265.0	342.4	419.0	499.2	576.9	664.6	751.3	835.0
-60°	69.5	97.0	138.9	192.9	249.6	319.0	386.4	456.2	525.1	591.5	667.6
-62.5°	47.4	69.5	94.2	127.6	175.9	222.9	280.4	340.0	397.3	456.9	514.5
-65°	39.7	46.6	64.0	86.0	107.5	147.8	189.1	229.0	278.9	328.6	376.0
-67.5°	31.8	38.0	44.2	53.2	72.5	91.2	109.3	144.7	179.1	212.0	246.4
-70°	26.6	29.8	34.8	40.1	45.3	53.7	69.7	85.2	100.1	119.1	146.9
-72.5°	21.9	24.7	27.5	30.2	34.5	38.9	43.1	47.2	56.3	68.7	80.5
-75°	17.5	19.6	21.9	24.2	26.5	28.7	31.0	34.5	37.8	41.0	44.0
-77.5°	13.4	15.1	16.8	18.5	20.1	21.9	23.7	25.4	27.0	28.5	30.0
-80°	10.0	10.7	12.0	13.3	14.6	15.8	17.0	18.2	19.3	20.4	21.6
-82.5°	7.9	8.4	8.9	9.4	9.9	10.4	10.9	11.8	12.6	13.4	14.1
-85°	5.6	6.1	6.4	6.8	7.1	7.4	7.7	8.0	8.3	8.5	8.8
-87.5°	2.8	3.0	3.3	3.5	3.7	3.9	4.1	4.3	4.5	4.7	4.8
-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: P731234 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-1S-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°	5.0	5.1	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0
85°	9.0	9.3	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.5	10.6
82.5°	14.8	15.5	16.1	16.7	17.2	17.7	18.1	18.5	18.9	19.1	19.4
80°	22.7	23.7	24.7	25.6	26.5	27.2	27.9	28.5	29.0	29.5	29.8
77.5°	32.1	34.3	36.4	38.3	40.1	41.7	43.2	44.5	45.6	46.6	47.4
75°	46.9	51.4	59.8	67.6	74.8	81.3	87.2	92.4	97.0	100.8	104.0
72.5°	91.7	102.2	114.4	133.2	150.4	166.1	180.3	192.9	203.9	213.2	220.9
70°	173.2	197.9	221.1	245.5	272.3	296.9	319.0	338.7	355.8	370.4	382.4
67.5°	286.6	324.6	360.1	393.2	425.6	456.2	483.8	508.3	529.7	547.9	562.8
65°	422.7	469.3	513.0	553.6	591.5	632.8	670.1	703.3	732.3	757.0	777.3
62.5°	569.2	627.2	685.6	740.0	790.2	836.9	879.9	918.1	951.5	979.9	1003.3
60°	740.0	808.4	874.6	936.6	993.9	1046.3	1090.2	1129.4	1163.7	1192.9	1216.9
57.5°	916.6	993.9	1065.0	1127.9	1186.2	1239.6	1284.3	1321.9	1354.8	1382.8	1406.0
55°	1090.2	1168.1	1241.4	1303.6	1359.0	1409.9	1450.2	1463.6	1475.3	1485.3	1493.6
52.5°	1252.4	1326.9	1396.2	1451.8	1471.4	1489.5	1505.8	1524.6	1541.8	1556.6	1568.7
50°	1392.8	1455.4	1479.8	1502.6	1529.1	1555.5	1579.4	1620.4	1675.4	1722.5	1761.4
47.5°	1474.3	1501.9	1535.0	1568.1	1615.2	1698.6	1774.4	1905.0	2303.0	2644.0	2926.0
45°	1521.4	1561.3	1615.8	1720.1	1817.5	2337.5	2883.6	3373.9	3748.9	4062.7	4322.6
42.5°	1579.2	1682.0	1800.6	2371.1	3067.7	3669.9	4169.0	4618.3	4838.2	4909.4	4968.4
40°	1722.2	1989.3	2832.0	3599.2	4232.0	4797.5	4909.8	5011.1	5090.6	5137.1	5175.7
37.5°	2172.7	3112.5	3921.9	4642.7	4902.1	5033.8	5123.1	5189.0	5246.3	5262.1	5275.2
35°	3206.6	4085.1	4812.9	4973.3	5104.9	5190.0	5252.9	5275.1	5294.9	5238.3	5170.8
32.5°	4085.1	4830.4	5009.3	5138.3	5235.6	5271.1	5297.4	5193.7	5092.6	4965.0	4823.2
30°	4812.9	5009.3	5149.6	5249.9	5282.3	5234.7	5101.1	4915.1	4703.9	4552.1	4512.6
27.5°	4973.3	5138.3	5249.9	5286.0	5198.1	5041.1	4764.4	4549.6	4491.2	4440.0	4545.0
25°	5104.9	5235.6	5282.3	5198.1	5004.2	4687.6	4519.2	4449.2	4572.0	4708.8	4964.7
22.5°	5190.0	5271.1	5234.7	5041.1	4687.6	4508.9	4469.5	4654.3	4959.0	5359.1	6748.5
20°	5252.9	5297.4	5101.1	4764.4	4519.2	4469.5	4682.2	5115.7	6007.7	9402.8	13420.2
17.5°	5275.1	5193.7	4915.1	4549.6	4449.2	4654.3	5115.7	6656.7	10778.9	19715.6	29143.4
15°	5294.9	5092.6	4703.9	4491.2	4572.0	4959.0	6007.7	10778.9	21874.9	35678.9	51178.6
12.5°	5238.3	4965.0	4552.1	4440.0	4708.8	5359.1	9402.8	19715.6	35678.9	54943.2	87573.8
10°	5170.8	4823.2	4512.6	4545.0	4964.7	6748.5	13420.2	29143.4	51178.6	87573.8	131875.8
7.5°	5117.5	4710.8	4481.2	4629.5	5214.0	8888.6	20329.3	40322.0	71761.9	119686.7	185173.8
5°	5078.9	4629.2	4458.3	4691.2	5396.7	10466.4	25462.3	48911.8	90938.3	152100.9	239451.2
2.5°	5055.5	4579.8	4444.5	4728.8	5508.3	11434.3	28629.7	54255.8	103012.2	175471.2	280057.6
0°	5047.7	4563.2	4439.8	4741.4	5545.9	11760.7	29701.1	56071.5	107142.6	184338.9	294562.3
-2.5°	5055.5	4579.8	4444.5	4728.8	5508.3	11434.3	28629.7	54255.8	103012.2	175471.2	280057.6
-5°	5078.9	4629.2	4458.3	4691.2	5396.7	10466.4	25462.3	48911.8	90938.3	152100.9	239451.2
-7.5°	5117.5	4710.8	4481.2	4629.5	5214.0	8888.6	20329.3	40322.0	71761.9	119686.7	185173.8
-10°	5170.8	4823.2	4512.6	4545.0	4964.7	6748.5	13420.2	29143.4	51178.6	87573.8	131875.8
-12.5°	5238.3	4965.0	4552.1	4440.0	4708.8	5359.1	9402.8	19715.6	35678.9	54943.2	87573.8
-15°	5294.9	5092.6	4703.9	4491.2	4572.0	4959.0	6007.7	10778.9	21874.9	35678.9	51178.6
-17.5°	5275.1	5193.7	4915.1	4549.6	4449.2	4654.3	5115.7	6656.7	10778.9	19715.6	29143.4
-20°	5252.9	5297.4	5101.1	4764.4	4519.2	4469.5	4682.2	5115.7	6007.7	9402.8	13420.2



REPORT NUMBER: P731234 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	5190.0	5271.1	5234.7	5041.1	4687.6	4508.9	4469.5	4654.3	4959.0	5359.1	6748.5
-25°	5104.9	5235.6	5282.3	5198.1	5004.2	4687.6	4519.2	4449.2	4572.0	4708.8	4964.7
-27.5°	4973.3	5138.3	5249.9	5286.0	5198.1	5041.1	4764.4	4549.6	4491.2	4440.0	4545.0
-30°	4812.9	5009.3	5149.6	5249.9	5282.3	5234.7	5101.1	4915.1	4703.9	4552.1	4512.6
-32.5°	4085.1	4830.4	5009.3	5138.3	5235.6	5271.1	5297.4	5193.7	5092.6	4965.0	4823.2
-35°	3206.6	4085.1	4812.9	4973.3	5104.9	5190.0	5252.9	5275.1	5294.9	5238.3	5170.8
-37.5°	2172.7	3112.5	3921.9	4642.7	4902.1	5033.8	5123.1	5189.0	5246.3	5262.1	5275.2
-40°	1722.2	1989.3	2832.0	3599.2	4232.0	4797.5	4909.8	5011.1	5090.6	5137.1	5175.7
-42.5°	1579.2	1682.0	1800.6	2371.1	3067.7	3669.9	4169.0	4618.3	4838.2	4909.4	4968.4
-45°	1521.4	1561.3	1615.8	1720.1	1817.5	2337.5	2883.6	3373.9	3748.9	4062.7	4322.6
-47.5°	1474.3	1501.9	1535.0	1568.1	1615.2	1698.6	1774.4	1905.0	2303.0	2644.0	2926.0
-50°	1392.8	1455.4	1479.8	1502.6	1529.1	1555.5	1579.4	1620.4	1675.4	1722.5	1761.4
-52.5°	1252.4	1326.9	1396.2	1451.8	1471.4	1489.5	1505.8	1524.6	1541.8	1556.6	1568.7
-55°	1090.2	1168.1	1241.4	1303.6	1359.0	1409.9	1450.2	1463.6	1475.3	1485.3	1493.6
-57.5°	916.6	993.9	1065.0	1127.9	1186.2	1239.6	1284.3	1321.9	1354.8	1382.8	1406.0
-60°	740.0	808.4	874.6	936.6	993.9	1046.3	1090.2	1129.4	1163.7	1192.9	1216.9
-62.5°	569.2	627.2	685.6	740.0	790.2	836.9	879.9	918.1	951.5	979.9	1003.3
-65°	422.7	469.3	513.0	553.6	591.5	632.8	670.1	703.3	732.3	757.0	777.3
-67.5°	286.6	324.6	360.1	393.2	425.6	456.2	483.8	508.3	529.7	547.9	562.8
-70°	173.2	197.9	221.1	245.5	272.3	296.9	319.0	338.7	355.8	370.4	382.4
-72.5°	91.7	102.2	114.4	133.2	150.4	166.1	180.3	192.9	203.9	213.2	220.9
-75°	46.9	51.4	59.8	67.6	74.8	81.3	87.2	92.4	97.0	100.8	104.0
-77.5°	32.1	34.3	36.4	38.3	40.1	41.7	43.2	44.5	45.6	46.6	47.4
-80°	22.7	23.7	24.7	25.6	26.5	27.2	27.9	28.5	29.0	29.5	29.8
-82.5°	14.8	15.5	16.1	16.7	17.2	17.7	18.1	18.5	18.9	19.1	19.4
-85°	9.0	9.3	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.5	10.6
-87.5°	5.0	5.1	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0
-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: P731234 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-1S-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°	6.0	6.1	6.1	6.1	6.1	6.1	6.0	6.0	6.0	5.9	5.8
85°	10.6	10.7	10.7	10.7	10.7	10.7	10.6	10.6	10.5	10.4	10.3
82.5°	19.6	19.7	19.8	19.8	19.8	19.7	19.6	19.4	19.1	18.9	18.5
80°	30.1	30.3	30.5	30.5	30.5	30.3	30.1	29.8	29.5	29.0	28.5
77.5°	48.0	48.4	48.7	48.8	48.7	48.4	48.0	47.4	46.6	45.6	44.5
75°	106.5	108.3	109.3	109.7	109.3	108.3	106.5	104.0	100.8	97.0	92.4
72.5°	226.9	231.2	233.7	234.6	233.7	231.2	226.9	220.9	213.2	203.9	192.9
70°	391.7	398.4	402.5	403.8	402.5	398.4	391.7	382.4	370.4	355.8	338.7
67.5°	574.5	582.9	587.9	589.6	587.9	582.9	574.5	562.8	547.9	529.7	508.3
65°	793.1	804.5	811.3	813.6	811.3	804.5	793.1	777.3	757.0	732.3	703.3
62.5°	1021.6	1034.7	1042.6	1045.2	1042.6	1034.7	1021.6	1003.3	979.9	951.5	918.1
60°	1235.7	1249.2	1257.3	1260.0	1257.3	1249.2	1235.7	1216.9	1192.9	1163.7	1129.4
57.5°	1424.0	1437.0	1444.8	1447.4	1444.8	1437.0	1424.0	1406.0	1382.8	1354.8	1321.9
55°	1500.0	1504.7	1507.5	1508.4	1507.5	1504.7	1500.0	1493.6	1485.3	1475.3	1463.6
52.5°	1578.3	1585.1	1589.2	1590.6	1589.2	1585.1	1578.3	1568.7	1556.6	1541.8	1524.6
50°	1791.9	1813.8	1827.0	1831.4	1827.0	1813.8	1791.9	1761.4	1722.5	1675.4	1620.4
47.5°	3147.3	3306.3	3402.2	3434.2	3402.2	3306.3	3147.3	2926.0	2644.0	2303.0	1905.0
45°	4526.7	4673.5	4762.1	4791.7	4762.1	4673.5	4526.7	4322.6	4062.7	3748.9	3373.9
42.5°	5014.8	5048.2	5068.4	5075.1	5068.4	5048.2	5014.8	4968.4	4909.4	4838.2	4618.3
40°	5206.2	5228.1	5241.4	5245.8	5241.4	5228.1	5206.2	5175.7	5137.1	5090.6	5011.1
37.5°	5285.6	5293.1	5297.6	5299.1	5297.6	5293.1	5285.6	5275.2	5262.1	5246.3	5189.0
35°	5117.5	5078.9	5055.5	5047.7	5055.5	5078.9	5117.5	5170.8	5238.3	5294.9	5275.1
32.5°	4710.8	4629.2	4579.8	4563.2	4579.8	4629.2	4710.8	4823.2	4965.0	5092.6	5193.7
30°	4481.2	4458.3	4444.5	4439.8	4444.5	4458.3	4481.2	4512.6	4552.1	4703.9	4915.1
27.5°	4629.5	4691.2	4728.8	4741.4	4728.8	4691.2	4629.5	4545.0	4440.0	4491.2	4549.6
25°	5214.0	5396.7	5508.3	5545.9	5508.3	5396.7	5214.0	4964.7	4708.8	4572.0	4449.2
22.5°	8888.6	10466.4	11434.3	11760.7	11434.3	10466.4	8888.6	6748.5	5359.1	4959.0	4654.3
20°	20329.3	25462.3	28629.7	29701.1	28629.7	25462.3	20329.3	13420.2	9402.8	6007.7	5115.7
17.5°	40322.0	48911.8	54255.8	56071.5	54255.8	48911.8	40322.0	29143.4	19715.6	10778.9	6656.7
15°	71761.9	90938.3	103012.2	107142.6	103012.2	90938.3	71761.9	51178.6	35678.9	21874.9	10778.9
12.5°	119686.7	152100.9	175471.2	184338.9	175471.2	152100.9	119686.7	87573.8	54943.2	35678.9	19715.6
10°	185173.8	239451.2	280057.6	294562.3	280057.6	239451.2	185173.8	131875.8	87573.8	51178.6	29143.4
7.5°	266407.3	339358.1	390617.4	408069.8	390617.4	339358.1	266407.3	185173.8	119686.7	71761.9	40322.0
5°	339358.1	426819.6	485319.2	506959.8	485319.2	426819.6	339358.1	239451.2	152100.9	90938.3	48911.8
2.5°	390617.4	485319.2	554733.6	587647.5	554733.6	485319.2	390617.4	280057.6	175471.2	103012.2	54255.8
0°	408069.8	506959.8	587647.5	636245.0	587647.5	506959.8	408069.8	294562.3	184338.9	107142.6	56071.5
-2.5°	390617.4	485319.2	554733.6	587647.5	554733.6	485319.2	390617.4	280057.6	175471.2	103012.2	54255.8
-5°	339358.1	426819.6	485319.2	506959.8	485319.2	426819.6	339358.1	239451.2	152100.9	90938.3	48911.8
-7.5°	266407.3	339358.1	390617.4	408069.8	390617.4	339358.1	266407.3	185173.8	119686.7	71761.9	40322.0
-10°	185173.8	239451.2	280057.6	294562.3	280057.6	239451.2	185173.8	131875.8	87573.8	51178.6	29143.4
-12.5°	119686.7	152100.9	175471.2	184338.9	175471.2	152100.9	119686.7	87573.8	54943.2	35678.9	19715.6
-15°	71761.9	90938.3	103012.2	107142.6	103012.2	90938.3	71761.9	51178.6	35678.9	21874.9	10778.9
-17.5°	40322.0	48911.8	54255.8	56071.5	54255.8	48911.8	40322.0	29143.4	19715.6	10778.9	6656.7
-20°	20329.3	25462.3	28629.7	29701.1	28629.7	25462.3	20329.3	13420.2	9402.8	6007.7	5115.7



REPORT NUMBER: P731234 (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°	8888.6	10466.4	11434.3	11760.7	11434.3	10466.4	8888.6	6748.5	5359.1	4959.0	4654.3
-25°	5214.0	5396.7	5508.3	5545.9	5508.3	5396.7	5214.0	4964.7	4708.8	4572.0	4449.2
-27.5°	4629.5	4691.2	4728.8	4741.4	4728.8	4691.2	4629.5	4545.0	4440.0	4491.2	4549.6
-30°	4481.2	4458.3	4444.5	4439.8	4444.5	4458.3	4481.2	4512.6	4552.1	4703.9	4915.1
-32.5°	4710.8	4629.2	4579.8	4563.2	4579.8	4629.2	4710.8	4823.2	4965.0	5092.6	5193.7
-35°	5117.5	5078.9	5055.5	5047.7	5055.5	5078.9	5117.5	5170.8	5238.3	5294.9	5275.1
-37.5°	5285.6	5293.1	5297.6	5299.1	5297.6	5293.1	5285.6	5275.2	5262.1	5246.3	5189.0
-40°	5206.2	5228.1	5241.4	5245.8	5241.4	5228.1	5206.2	5175.7	5137.1	5090.6	5011.1
-42.5°	5014.8	5048.2	5068.4	5075.1	5068.4	5048.2	5014.8	4968.4	4909.4	4838.2	4618.3
-45°	4526.7	4673.5	4762.1	4791.7	4762.1	4673.5	4526.7	4322.6	4062.7	3748.9	3373.9
-47.5°	3147.3	3306.3	3402.2	3434.2	3402.2	3306.3	3147.3	2926.0	2644.0	2303.0	1905.0
-50°	1791.9	1813.8	1827.0	1831.4	1827.0	1813.8	1791.9	1761.4	1722.5	1675.4	1620.4
-52.5°	1578.3	1585.1	1589.2	1590.6	1589.2	1585.1	1578.3	1568.7	1556.6	1541.8	1524.6
-55°	1500.0	1504.7	1507.5	1508.4	1507.5	1504.7	1500.0	1493.6	1485.3	1475.3	1463.6
-57.5°	1424.0	1437.0	1444.8	1447.4	1444.8	1437.0	1424.0	1406.0	1382.8	1354.8	1321.9
-60°	1235.7	1249.2	1257.3	1260.0	1257.3	1249.2	1235.7	1216.9	1192.9	1163.7	1129.4
-62.5°	1021.6	1034.7	1042.6	1045.2	1042.6	1034.7	1021.6	1003.3	979.9	951.5	918.1
-65°	793.1	804.5	811.3	813.6	811.3	804.5	793.1	777.3	757.0	732.3	703.3
-67.5°	574.5	582.9	587.9	589.6	587.9	582.9	574.5	562.8	547.9	529.7	508.3
-70°	391.7	398.4	402.5	403.8	402.5	398.4	391.7	382.4	370.4	355.8	338.7
-72.5°	226.9	231.2	233.7	234.6	233.7	231.2	226.9	220.9	213.2	203.9	192.9
-75°	106.5	108.3	109.3	109.7	109.3	108.3	106.5	104.0	100.8	97.0	92.4
-77.5°	48.0	48.4	48.7	48.8	48.7	48.4	48.0	47.4	46.6	45.6	44.5
-80°	30.1	30.3	30.5	30.5	30.5	30.3	30.1	29.8	29.5	29.0	28.5
-82.5°	19.6	19.7	19.8	19.8	19.8	19.7	19.6	19.4	19.1	18.9	18.5
-85°	10.6	10.7	10.7	10.7	10.7	10.7	10.6	10.6	10.5	10.4	10.3
-87.5°	6.0	6.1	6.1	6.1	6.1	6.1	6.0	6.0	6.0	5.9	5.8
-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: P731234 (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°
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	5.6	5.5	5.4	5.3	5.1	5.0	4.8	4.7	4.5	4.3
85°	10.1	10.0	9.8	9.7	9.5	9.3	9.0	8.8	8.5	8.3	8.0
82.5°	18.1	17.7	17.2	16.7	16.1	15.5	14.8	14.1	13.4	12.6	11.8
80°	27.9	27.2	26.5	25.6	24.7	23.7	22.7	21.6	20.4	19.3	18.2
77.5°	43.2	41.7	40.1	38.3	36.4	34.3	32.1	30.0	28.5	27.0	25.4
75°	87.2	81.3	74.8	67.6	59.8	51.4	46.9	44.0	41.0	37.8	34.5
72.5°	180.3	166.1	150.4	133.2	114.4	102.2	91.7	80.5	68.7	56.3	47.2
70°	319.0	296.9	272.3	245.5	221.1	197.9	173.2	146.9	119.1	100.1	85.2
67.5°	483.8	456.2	425.6	393.2	360.1	324.6	286.6	246.4	212.0	179.1	144.7
65°	670.1	632.8	591.5	553.6	513.0	469.3	422.7	376.0	328.6	278.9	229.0
62.5°	879.9	836.9	790.2	740.0	685.6	627.2	569.2	514.5	456.9	397.3	340.0
60°	1090.2	1046.3	993.9	936.6	874.6	808.4	740.0	667.6	591.5	525.1	456.2
57.5°	1284.3	1239.6	1186.2	1127.9	1065.0	993.9	916.6	835.0	751.3	664.6	576.9
55°	1450.2	1409.9	1359.0	1303.6	1241.4	1168.1	1090.2	1005.2	912.2	815.2	717.5
52.5°	1505.8	1489.5	1471.4	1451.8	1396.2	1326.9	1252.4	1163.7	1070.7	968.2	859.6
50°	1579.4	1555.5	1529.1	1502.6	1479.8	1455.4	1392.8	1309.5	1216.9	1113.0	1002.0
47.5°	1774.4	1698.6	1615.2	1568.1	1535.0	1501.9	1474.3	1440.7	1347.5	1249.2	1134.2
45°	2883.6	2337.5	1817.5	1720.1	1615.8	1561.3	1521.4	1487.0	1454.7	1366.6	1260.0
42.5°	4169.0	3669.9	3067.7	2371.1	1800.6	1682.0	1579.2	1534.6	1493.5	1457.8	1366.6
40°	4909.8	4797.5	4232.0	3599.2	2832.0	1989.3	1722.2	1588.2	1539.0	1493.5	1454.7
37.5°	5123.1	5033.8	4902.1	4642.7	3921.9	3112.5	2172.7	1735.7	1588.2	1534.6	1487.0
35°	5252.9	5190.0	5104.9	4973.3	4812.9	4085.1	3206.6	2172.7	1722.2	1579.2	1521.4
32.5°	5297.4	5271.1	5235.6	5138.3	5009.3	4830.4	4085.1	3112.5	1989.3	1682.0	1561.3
30°	5101.1	5234.7	5282.3	5249.9	5149.6	5009.3	4812.9	3921.9	2832.0	1800.6	1615.8
27.5°	4764.4	5041.1	5198.1	5286.0	5249.9	5138.3	4973.3	4642.7	3599.2	2371.1	1720.1
25°	4519.2	4687.6	5004.2	5198.1	5282.3	5235.6	5104.9	4902.1	4232.0	3067.7	1817.5
22.5°	4469.5	4508.9	4687.6	5041.1	5234.7	5271.1	5190.0	5033.8	4797.5	3669.9	2337.5
20°	4682.2	4469.5	4519.2	4764.4	5101.1	5297.4	5252.9	5123.1	4909.8	4169.0	2883.6
17.5°	5115.7	4654.3	4449.2	4549.6	4915.1	5193.7	5275.1	5189.0	5011.1	4618.3	3373.9
15°	6007.7	4959.0	4572.0	4491.2	4703.9	5092.6	5294.9	5246.3	5090.6	4838.2	3748.9
12.5°	9402.8	5359.1	4708.8	4440.0	4552.1	4965.0	5238.3	5262.1	5137.1	4909.4	4062.7
10°	13420.2	6748.5	4964.7	4545.0	4512.6	4823.2	5170.8	5275.2	5175.7	4968.4	4322.6
7.5°	20329.3	8888.6	5214.0	4629.5	4481.2	4710.8	5117.5	5285.6	5206.2	5014.8	4526.7
5°	25462.3	10466.4	5396.7	4691.2	4458.3	4629.2	5078.9	5293.1	5228.1	5048.2	4673.5
2.5°	28629.7	11434.3	5508.3	4728.8	4444.5	4579.8	5055.5	5297.6	5241.4	5068.4	4762.1
0°	29701.1	11760.7	5545.9	4741.4	4439.8	4563.2	5047.7	5299.1	5245.8	5075.1	4791.7
-2.5°	28629.7	11434.3	5508.3	4728.8	4444.5	4579.8	5055.5	5297.6	5241.4	5068.4	4762.1
-5°	25462.3	10466.4	5396.7	4691.2	4458.3	4629.2	5078.9	5293.1	5228.1	5048.2	4673.5
-7.5°	20329.3	8888.6	5214.0	4629.5	4481.2	4710.8	5117.5	5285.6	5206.2	5014.8	4526.7
-10°	13420.2	6748.5	4964.7	4545.0	4512.6	4823.2	5170.8	5275.2	5175.7	4968.4	4322.6
-12.5°	9402.8	5359.1	4708.8	4440.0	4552.1	4965.0	5238.3	5262.1	5137.1	4909.4	4062.7
-15°	6007.7	4959.0	4572.0	4491.2	4703.9	5092.6	5294.9	5246.3	5090.6	4838.2	3748.9
-17.5°	5115.7	4654.3	4449.2	4549.6	4915.1	5193.7	5275.1	5189.0	5011.1	4618.3	3373.9
-20°	4682.2	4469.5	4519.2	4764.4	5101.1	5297.4	5252.9	5123.1	4909.8	4169.0	2883.6



REPORT NUMBER: P731234 (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°	4469.5	4508.9	4687.6	5041.1	5234.7	5271.1	5190.0	5033.8	4797.5	3669.9	2337.5
-25°	4519.2	4687.6	5004.2	5198.1	5282.3	5235.6	5104.9	4902.1	4232.0	3067.7	1817.5
-27.5°	4764.4	5041.1	5198.1	5286.0	5249.9	5138.3	4973.3	4642.7	3599.2	2371.1	1720.1
-30°	5101.1	5234.7	5282.3	5249.9	5149.6	5009.3	4812.9	3921.9	2832.0	1800.6	1615.8
-32.5°	5297.4	5271.1	5235.6	5138.3	5009.3	4830.4	4085.1	3112.5	1989.3	1682.0	1561.3
-35°	5252.9	5190.0	5104.9	4973.3	4812.9	4085.1	3206.6	2172.7	1722.2	1579.2	1521.4
-37.5°	5123.1	5033.8	4902.1	4642.7	3921.9	3112.5	2172.7	1735.7	1588.2	1534.6	1487.0
-40°	4909.8	4797.5	4232.0	3599.2	2832.0	1989.3	1722.2	1588.2	1539.0	1493.5	1454.7
-42.5°	4169.0	3669.9	3067.7	2371.1	1800.6	1682.0	1579.2	1534.6	1493.5	1457.8	1366.6
-45°	2883.6	2337.5	1817.5	1720.1	1615.8	1561.3	1521.4	1487.0	1454.7	1366.6	1260.0
-47.5°	1774.4	1698.6	1615.2	1568.1	1535.0	1501.9	1474.3	1440.7	1347.5	1249.2	1134.2
-50°	1579.4	1555.5	1529.1	1502.6	1479.8	1455.4	1392.8	1309.5	1216.9	1113.0	1002.0
-52.5°	1505.8	1489.5	1471.4	1451.8	1396.2	1326.9	1252.4	1163.7	1070.7	968.2	859.6
-55°	1450.2	1409.9	1359.0	1303.6	1241.4	1168.1	1090.2	1005.2	912.2	815.2	717.5
-57.5°	1284.3	1239.6	1186.2	1127.9	1065.0	993.9	916.6	835.0	751.3	664.6	576.9
-60°	1090.2	1046.3	993.9	936.6	874.6	808.4	740.0	667.6	591.5	525.1	456.2
-62.5°	879.9	836.9	790.2	740.0	685.6	627.2	569.2	514.5	456.9	397.3	340.0
-65°	670.1	632.8	591.5	553.6	513.0	469.3	422.7	376.0	328.6	278.9	229.0
-67.5°	483.8	456.2	425.6	393.2	360.1	324.6	286.6	246.4	212.0	179.1	144.7
-70°	319.0	296.9	272.3	245.5	221.1	197.9	173.2	146.9	119.1	100.1	85.2
-72.5°	180.3	166.1	150.4	133.2	114.4	102.2	91.7	80.5	68.7	56.3	47.2
-75°	87.2	81.3	74.8	67.6	59.8	51.4	46.9	44.0	41.0	37.8	34.5
-77.5°	43.2	41.7	40.1	38.3	36.4	34.3	32.1	30.0	28.5	27.0	25.4
-80°	27.9	27.2	26.5	25.6	24.7	23.7	22.7	21.6	20.4	19.3	18.2
-82.5°	18.1	17.7	17.2	16.7	16.1	15.5	14.8	14.1	13.4	12.6	11.8
-85°	10.1	10.0	9.8	9.7	9.5	9.3	9.0	8.8	8.5	8.3	8.0
-87.5°	5.7	5.6	5.5	5.4	5.3	5.1	5.0	4.8	4.7	4.5	4.3
-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: P731234 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-1S-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°	4.1	3.9	3.7	3.5	3.3	3.0	2.8	2.6	2.3	2.1	1.8
85°	7.7	7.4	7.1	6.8	6.4	6.1	5.6	5.2	4.7	4.2	3.7
82.5°	10.9	10.4	9.9	9.4	8.9	8.4	7.9	7.3	6.8	6.2	5.5
80°	17.0	15.8	14.6	13.3	12.0	10.7	10.0	9.2	8.5	7.8	7.0
77.5°	23.7	21.9	20.1	18.5	16.8	15.1	13.4	11.6	10.2	9.3	8.4
75°	31.0	28.7	26.5	24.2	21.9	19.6	17.5	15.4	13.2	11.0	9.7
72.5°	43.1	38.9	34.5	30.2	27.5	24.7	21.9	19.1	16.6	14.0	11.4
70°	69.7	53.7	45.3	40.1	34.8	29.8	26.6	23.3	19.9	17.0	14.0
67.5°	109.3	91.2	72.5	53.2	44.2	38.0	31.8	27.5	23.7	19.9	16.6
65°	189.1	147.8	107.5	86.0	64.0	46.6	39.7	32.6	27.5	23.3	19.1
62.5°	280.4	222.9	175.9	127.6	94.2	69.5	47.4	39.7	31.8	26.6	21.9
60°	386.4	319.0	249.6	192.9	138.9	97.0	69.5	46.6	38.0	29.8	24.7
57.5°	499.2	419.0	342.4	265.0	198.6	138.9	94.2	64.0	44.2	34.8	27.5
55°	616.4	525.3	436.3	350.2	265.0	192.9	127.6	86.0	53.2	40.1	30.2
52.5°	749.5	637.6	534.0	436.3	342.4	249.6	175.9	107.5	72.5	45.3	34.5
50°	882.0	760.2	637.6	525.3	419.0	319.0	222.9	147.8	91.2	53.7	38.9
47.5°	1013.4	882.0	749.5	616.4	499.2	386.4	280.4	189.1	109.3	69.7	43.1
45°	1134.2	1002.0	859.6	717.5	576.9	456.2	340.0	229.0	144.7	85.2	47.2
42.5°	1249.2	1113.0	968.2	815.2	664.6	525.1	397.3	278.9	179.1	100.1	56.3
40°	1347.5	1216.9	1070.7	912.2	751.3	591.5	456.9	328.6	212.0	119.1	68.7
37.5°	1440.7	1309.5	1163.7	1005.2	835.0	667.6	514.5	376.0	246.4	146.9	80.5
35°	1474.3	1392.8	1252.4	1090.2	916.6	740.0	569.2	422.7	286.6	173.2	91.7
32.5°	1501.9	1455.4	1326.9	1168.1	993.9	808.4	627.2	469.3	324.6	197.9	102.2
30°	1535.0	1479.8	1396.2	1241.4	1065.0	874.6	685.6	513.0	360.1	221.1	114.4
27.5°	1568.1	1502.6	1451.8	1303.6	1127.9	936.6	740.0	553.6	393.2	245.5	133.2
25°	1615.2	1529.1	1471.4	1359.0	1186.2	993.9	790.2	591.5	425.6	272.3	150.4
22.5°	1698.6	1555.5	1489.5	1409.9	1239.6	1046.3	836.9	632.8	456.2	296.9	166.1
20°	1774.4	1579.4	1505.8	1450.2	1284.3	1090.2	879.9	670.1	483.8	319.0	180.3
17.5°	1905.0	1620.4	1524.6	1463.6	1321.9	1129.4	918.1	703.3	508.3	338.7	192.9
15°	2303.0	1675.4	1541.8	1475.3	1354.8	1163.7	951.5	732.3	529.7	355.8	203.9
12.5°	2644.0	1722.5	1556.6	1485.3	1382.8	1192.9	979.9	757.0	547.9	370.4	213.2
10°	2926.0	1761.4	1568.7	1493.6	1406.0	1216.9	1003.3	777.3	562.8	382.4	220.9
7.5°	3147.3	1791.9	1578.3	1500.0	1424.0	1235.7	1021.6	793.1	574.5	391.7	226.9
5°	3306.3	1813.8	1585.1	1504.7	1437.0	1249.2	1034.7	804.5	582.9	398.4	231.2
2.5°	3402.2	1827.0	1589.2	1507.5	1444.8	1257.3	1042.6	811.3	587.9	402.5	233.7
0°	3434.2	1831.4	1590.6	1508.4	1447.4	1260.0	1045.2	813.6	589.6	403.8	234.6
-2.5°	3402.2	1827.0	1589.2	1507.5	1444.8	1257.3	1042.6	811.3	587.9	402.5	233.7
-5°	3306.3	1813.8	1585.1	1504.7	1437.0	1249.2	1034.7	804.5	582.9	398.4	231.2
-7.5°	3147.3	1791.9	1578.3	1500.0	1424.0	1235.7	1021.6	793.1	574.5	391.7	226.9
-10°	2926.0	1761.4	1568.7	1493.6	1406.0	1216.9	1003.3	777.3	562.8	382.4	220.9
-12.5°	2644.0	1722.5	1556.6	1485.3	1382.8	1192.9	979.9	757.0	547.9	370.4	213.2
-15°	2303.0	1675.4	1541.8	1475.3	1354.8	1163.7	951.5	732.3	529.7	355.8	203.9
-17.5°	1905.0	1620.4	1524.6	1463.6	1321.9	1129.4	918.1	703.3	508.3	338.7	192.9
-20°	1774.4	1579.4	1505.8	1450.2	1284.3	1090.2	879.9	670.1	483.8	319.0	180.3



REPORT NUMBER: P731234 (CONVERTED FROM TYPE C PHOTOMETRY)  
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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°	1698.6	1555.5	1489.5	1409.9	1239.6	1046.3	836.9	632.8	456.2	296.9	166.1
-25°	1615.2	1529.1	1471.4	1359.0	1186.2	993.9	790.2	591.5	425.6	272.3	150.4
-27.5°	1568.1	1502.6	1451.8	1303.6	1127.9	936.6	740.0	553.6	393.2	245.5	133.2
-30°	1535.0	1479.8	1396.2	1241.4	1065.0	874.6	685.6	513.0	360.1	221.1	114.4
-32.5°	1501.9	1455.4	1326.9	1168.1	993.9	808.4	627.2	469.3	324.6	197.9	102.2
-35°	1474.3	1392.8	1252.4	1090.2	916.6	740.0	569.2	422.7	286.6	173.2	91.7
-37.5°	1440.7	1309.5	1163.7	1005.2	835.0	667.6	514.5	376.0	246.4	146.9	80.5
-40°	1347.5	1216.9	1070.7	912.2	751.3	591.5	456.9	328.6	212.0	119.1	68.7
-42.5°	1249.2	1113.0	968.2	815.2	664.6	525.1	397.3	278.9	179.1	100.1	56.3
-45°	1134.2	1002.0	859.6	717.5	576.9	456.2	340.0	229.0	144.7	85.2	47.2
-47.5°	1013.4	882.0	749.5	616.4	499.2	386.4	280.4	189.1	109.3	69.7	43.1
-50°	882.0	760.2	637.6	525.3	419.0	319.0	222.9	147.8	91.2	53.7	38.9
-52.5°	749.5	637.6	534.0	436.3	342.4	249.6	175.9	107.5	72.5	45.3	34.5
-55°	616.4	525.3	436.3	350.2	265.0	192.9	127.6	86.0	53.2	40.1	30.2
-57.5°	499.2	419.0	342.4	265.0	198.6	138.9	94.2	64.0	44.2	34.8	27.5
-60°	386.4	319.0	249.6	192.9	138.9	97.0	69.5	46.6	38.0	29.8	24.7
-62.5°	280.4	222.9	175.9	127.6	94.2	69.5	47.4	39.7	31.8	26.6	21.9
-65°	189.1	147.8	107.5	86.0	64.0	46.6	39.7	32.6	27.5	23.3	19.1
-67.5°	109.3	91.2	72.5	53.2	44.2	38.0	31.8	27.5	23.7	19.9	16.6
-70°	69.7	53.7	45.3	40.1	34.8	29.8	26.6	23.3	19.9	17.0	14.0
-72.5°	43.1	38.9	34.5	30.2	27.5	24.7	21.9	19.1	16.6	14.0	11.4
-75°	31.0	28.7	26.5	24.2	21.9	19.6	17.5	15.4	13.2	11.0	9.7
-77.5°	23.7	21.9	20.1	18.5	16.8	15.1	13.4	11.6	10.2	9.3	8.4
-80°	17.0	15.8	14.6	13.3	12.0	10.7	10.0	9.2	8.5	7.8	7.0
-82.5°	10.9	10.4	9.9	9.4	8.9	8.4	7.9	7.3	6.8	6.2	5.5
-85°	7.7	7.4	7.1	6.8	6.4	6.1	5.6	5.2	4.7	4.2	3.7
-87.5°	4.1	3.9	3.7	3.5	3.3	3.0	2.8	2.6	2.3	2.1	1.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	1.3	1.1	0.8	0.5	0.3	0.0
85°	3.2	2.6	2.1	1.6	1.1	0.5	0.0
82.5°	4.7	4.0	3.2	2.4	1.6	0.8	0.0
80°	6.2	5.3	4.2	3.2	2.1	1.1	0.0
77.5°	7.4	6.4	5.3	4.0	2.6	1.3	0.0
75°	8.6	7.4	6.2	4.7	3.2	1.6	0.0
72.5°	9.7	8.4	7.0	5.5	3.7	1.8	0.0
70°	11.0	9.3	7.8	6.2	4.2	2.1	0.0
67.5°	13.2	10.2	8.5	6.8	4.7	2.3	0.0
65°	15.4	11.6	9.2	7.3	5.2	2.6	0.0
62.5°	17.5	13.4	10.0	7.9	5.6	2.8	0.0
60°	19.6	15.1	10.7	8.4	6.1	3.0	0.0
57.5°	21.9	16.8	12.0	8.9	6.4	3.3	0.0
55°	24.2	18.5	13.3	9.4	6.8	3.5	0.0
52.5°	26.5	20.1	14.6	9.9	7.1	3.7	0.0
50°	28.7	21.9	15.8	10.4	7.4	3.9	0.0
47.5°	31.0	23.7	17.0	10.9	7.7	4.1	0.0
45°	34.5	25.4	18.2	11.8	8.0	4.3	0.0
42.5°	37.8	27.0	19.3	12.6	8.3	4.5	0.0
40°	41.0	28.5	20.4	13.4	8.5	4.7	0.0
37.5°	44.0	30.0	21.6	14.1	8.8	4.8	0.0
35°	46.9	32.1	22.7	14.8	9.0	5.0	0.0
32.5°	51.4	34.3	23.7	15.5	9.3	5.1	0.0
30°	59.8	36.4	24.7	16.1	9.5	5.3	0.0
27.5°	67.6	38.3	25.6	16.7	9.7	5.4	0.0
25°	74.8	40.1	26.5	17.2	9.8	5.5	0.0
22.5°	81.3	41.7	27.2	17.7	10.0	5.6	0.0
20°	87.2	43.2	27.9	18.1	10.1	5.7	0.0
17.5°	92.4	44.5	28.5	18.5	10.3	5.8	0.0
15°	97.0	45.6	29.0	18.9	10.4	5.9	0.0
12.5°	100.8	46.6	29.5	19.1	10.5	6.0	0.0
10°	104.0	47.4	29.8	19.4	10.6	6.0	0.0
7.5°	106.5	48.0	30.1	19.6	10.6	6.0	0.0
5°	108.3	48.4	30.3	19.7	10.7	6.1	0.0
2.5°	109.3	48.7	30.5	19.8	10.7	6.1	0.0
0°	109.7	48.8	30.5	19.8	10.7	6.1	0.0
-2.5°	109.3	48.7	30.5	19.8	10.7	6.1	0.0
-5°	108.3	48.4	30.3	19.7	10.7	6.1	0.0
-7.5°	106.5	48.0	30.1	19.6	10.6	6.0	0.0
-10°	104.0	47.4	29.8	19.4	10.6	6.0	0.0
-12.5°	100.8	46.6	29.5	19.1	10.5	6.0	0.0
-15°	97.0	45.6	29.0	18.9	10.4	5.9	0.0
-17.5°	92.4	44.5	28.5	18.5	10.3	5.8	0.0
-20°	87.2	43.2	27.9	18.1	10.1	5.7	0.0



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 CATALOG NUMBER: EPH-LS-08-0530N-40-70-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	81.3	41.7	27.2	17.7	10.0	5.6	0.0
-25°	74.8	40.1	26.5	17.2	9.8	5.5	0.0
-27.5°	67.6	38.3	25.6	16.7	9.7	5.4	0.0
-30°	59.8	36.4	24.7	16.1	9.5	5.3	0.0
-32.5°	51.4	34.3	23.7	15.5	9.3	5.1	0.0
-35°	46.9	32.1	22.7	14.8	9.0	5.0	0.0
-37.5°	44.0	30.0	21.6	14.1	8.8	4.8	0.0
-40°	41.0	28.5	20.4	13.4	8.5	4.7	0.0
-42.5°	37.8	27.0	19.3	12.6	8.3	4.5	0.0
-45°	34.5	25.4	18.2	11.8	8.0	4.3	0.0
-47.5°	31.0	23.7	17.0	10.9	7.7	4.1	0.0
-50°	28.7	21.9	15.8	10.4	7.4	3.9	0.0
-52.5°	26.5	20.1	14.6	9.9	7.1	3.7	0.0
-55°	24.2	18.5	13.3	9.4	6.8	3.5	0.0
-57.5°	21.9	16.8	12.0	8.9	6.4	3.3	0.0
-60°	19.6	15.1	10.7	8.4	6.1	3.0	0.0
-62.5°	17.5	13.4	10.0	7.9	5.6	2.8	0.0
-65°	15.4	11.6	9.2	7.3	5.2	2.6	0.0
-67.5°	13.2	10.2	8.5	6.8	4.7	2.3	0.0
-70°	11.0	9.3	7.8	6.2	4.2	2.1	0.0
-72.5°	9.7	8.4	7.0	5.5	3.7	1.8	0.0
-75°	8.6	7.4	6.2	4.7	3.2	1.6	0.0
-77.5°	7.4	6.4	5.3	4.0	2.6	1.3	0.0
-80°	6.2	5.3	4.2	3.2	2.1	1.1	0.0
-82.5°	4.7	4.0	3.2	2.4	1.6	0.8	0.0
-85°	3.2	2.6	2.1	1.6	1.1	0.5	0.0
-87.5°	1.6	1.3	1.1	0.8	0.5	0.3	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

