

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: P731276 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-80-1S-HEG**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731276 (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-08-0680N-40-80-1S-HEG  
Description: EPHEBUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 1S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

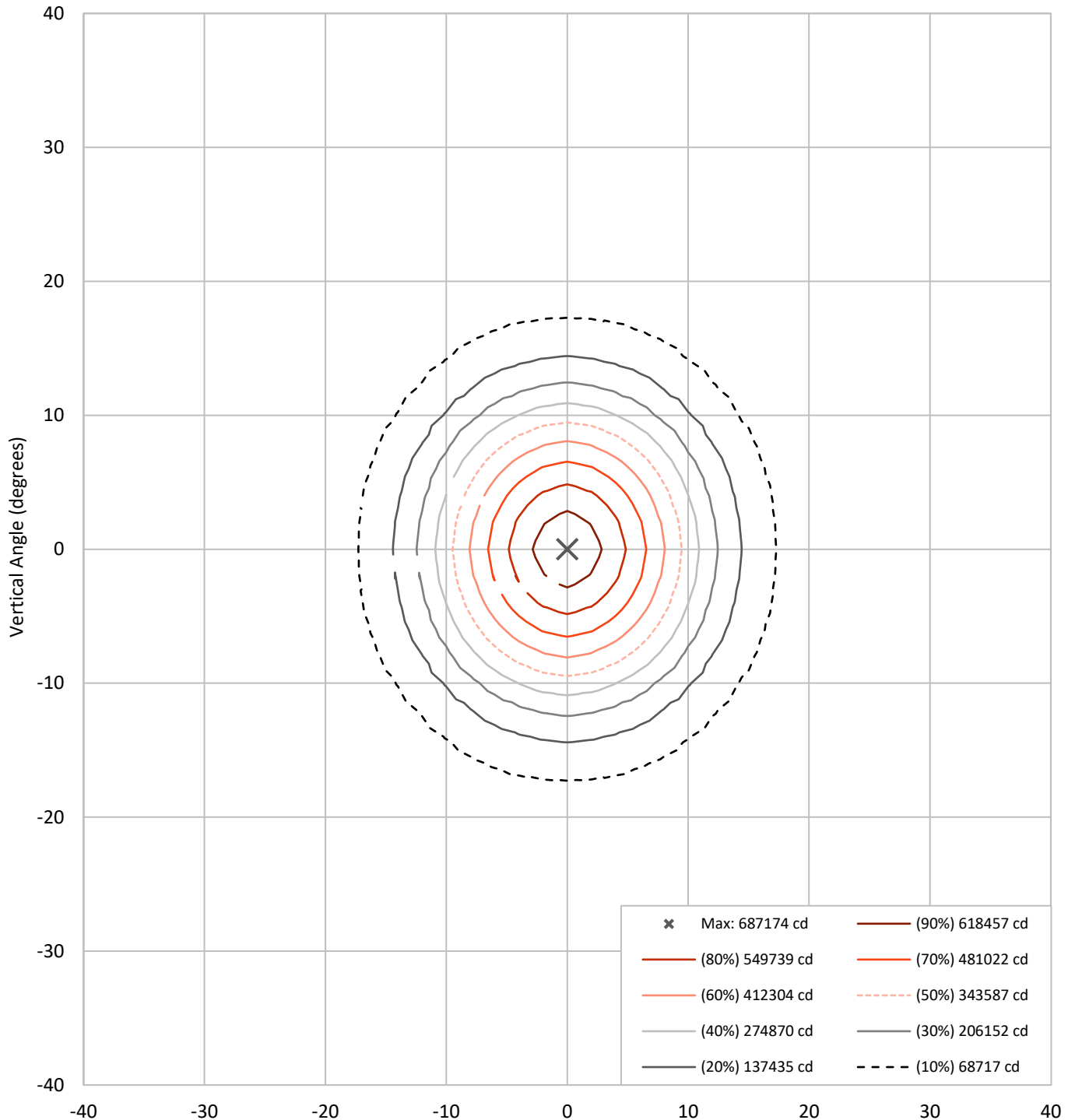
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	93088.5 lumens	Max Intensity:	687174 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	128.5 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:	40122.3 lumens	Field Lumens:	73914 lumens
Beam Efficiency:	43.1%	Field Efficiency:	79.4%

Input Watts (W): 724.3  
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





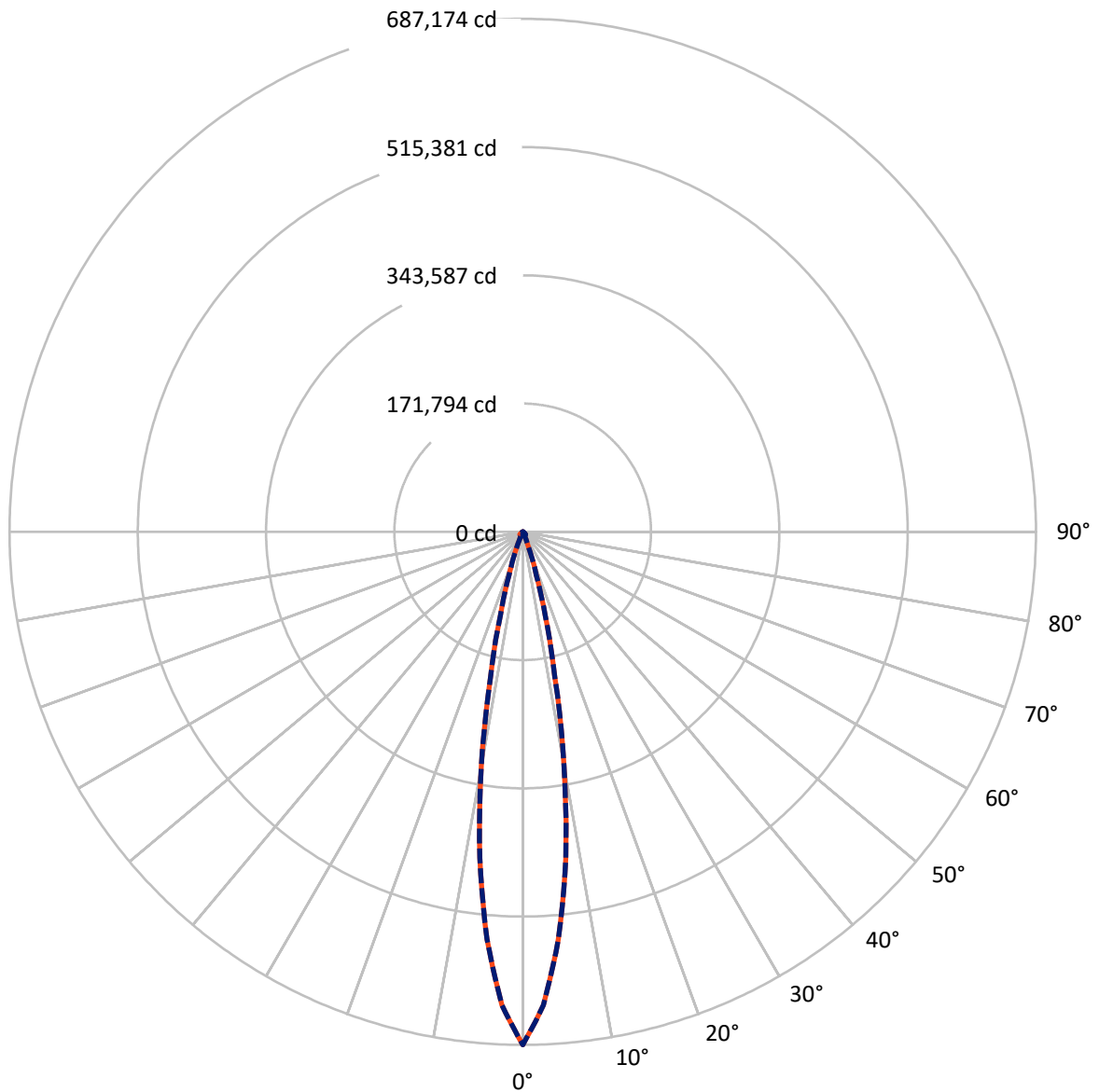
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### Lumen Table

90	0.1		0.9		3.2		8.1		10.7		8.1		3.2		0.9		0.1	
80	0.1		0.9		3.2		8.1		10.7		8.1		3.2		0.9		0.1	
70	0.4	0.5	1.9	5.8	11.7	18.2	23.5	26.5	26.5	23.5	18.2	11.7	5.8	1.9	0.5	0.4		
60		1.5	6.8	16.9	29.0	39.2	45.9	49.5	49.5	45.9	39.2	29.0	16.9	6.8	1.5			
50	1.1	3.6	13.8	28.8	42.0	71.1	112.0	134.6	134.6	112.0	71.1	42.0	28.8	13.8	3.6	1.1		
40		6.2	20.5	36.3	85.9	147.0	162.4	162.7	162.7	162.4	147.0	85.9	36.3	20.5	6.2			
30	2.3	8.7	25.0	56.1	133.0	147.3	161.8	280.5	280.5	161.8	147.3	133.0	56.1	25.0	8.7	2.3		
20		10.6	27.4	83.2	137.6	152.0	888.9	3319.4	3319.4	888.9	152.0	137.6	83.2	27.4	10.6			
10	3.0	11.6	28.7	96.6	133.5	258.0	3239.0	12746.7	12746.7	3239.0	258.0	133.5	96.6	28.7	11.6	3.0		
0		11.6	28.7	96.6	133.5	258.0	3239.0	12746.7	12746.7	3239.0	258.0	133.5	96.6	28.7	11.6			
-10	2.3	10.6	27.4	83.2	137.6	152.0	888.9	3319.4	3319.4	888.9	152.0	137.6	83.2	27.4	10.6	2.3		
-20		8.7	25.0	56.1	133.0	147.3	161.8	280.5	280.5	161.8	147.3	133.0	56.1	25.0	8.7			
-30	1.1	6.2	20.5	36.3	85.9	147.0	162.4	162.7	162.7	162.4	147.0	85.9	36.3	20.5	6.2	1.1		
-40		3.6	13.8	28.8	42.0	71.1	112.0	134.6	134.6	112.0	71.1	42.0	28.8	13.8	3.6			
-50	0.4	1.5	6.8	16.9	29.0	39.2	45.9	49.5	49.5	45.9	39.2	29.0	16.9	6.8	1.5	0.4		
-60		0.5	1.9	5.8	11.7	18.2	23.5	26.5	26.5	23.5	18.2	11.7	5.8	1.9	0.5			
-70	0.1		0.9		3.2		8.1		10.7		8.1		3.2		0.9		0.1	
-80	0.1		0.9		3.2		8.1		10.7		8.1		3.2		0.9		0.1	
-90	0.1		0.9		3.2		8.1		10.7		8.1		3.2		0.9		0.1	

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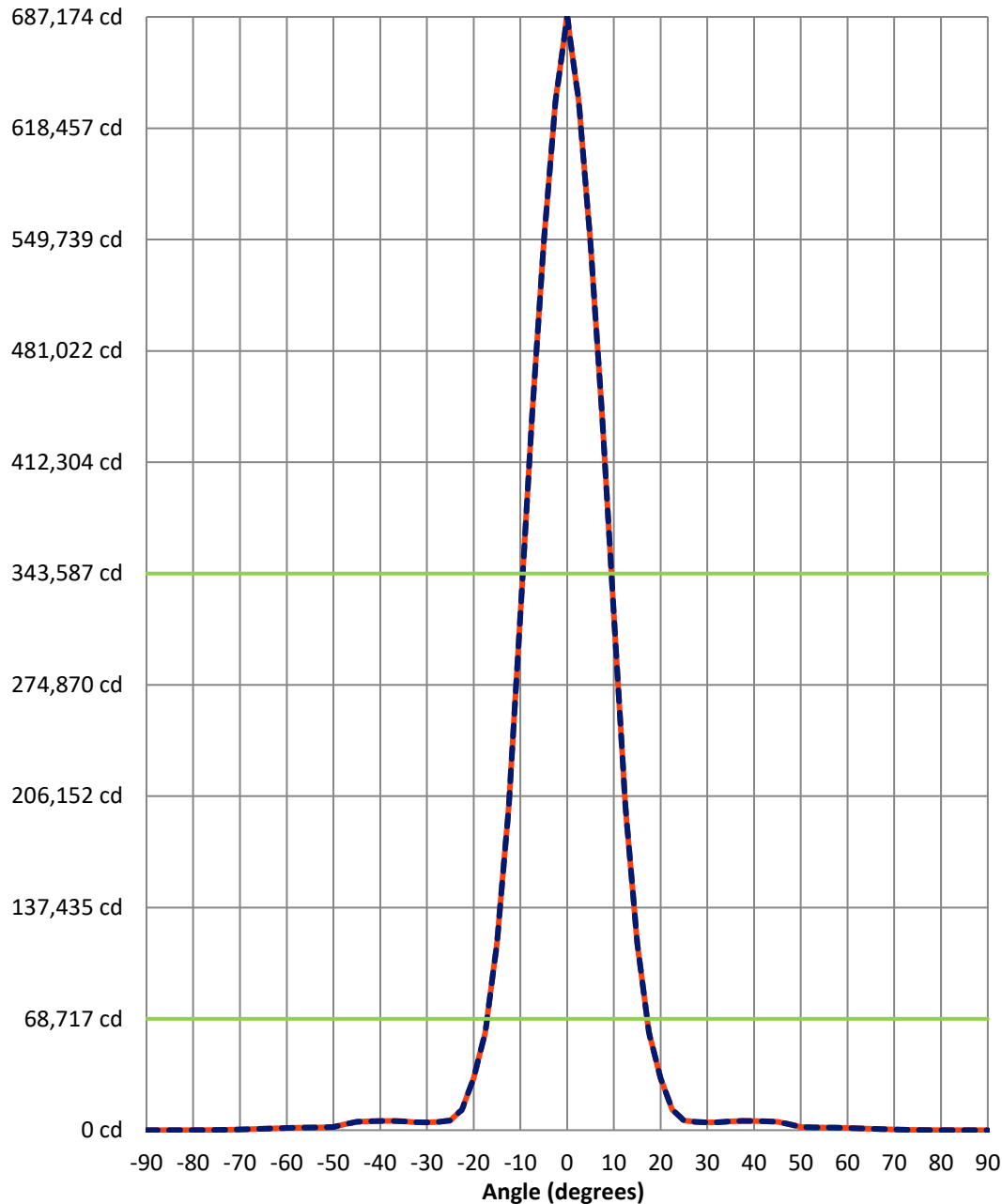
### Luminous Intensity Polar Plot



— 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: 40122.3  
 Efficiency: 43.1%

**Field:**  
 H Angle: 34.3°  
 V Angle: 34.3°  
 Lumens: 73914  
 Efficiency: 79.4%

**Spill:**  
 Lumens: 19174.4  
 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	0.6	0.9	1.1	1.4	1.7	2.0	2.3	2.5	2.8
85°	0.0	0.6	1.1	1.7	2.3	2.9	3.4	4.0	4.5	5.0	5.6
82.5°	0.0	0.9	1.7	2.6	3.4	4.3	5.1	5.9	6.7	7.3	7.9
80°	0.0	1.1	2.3	3.4	4.6	5.7	6.7	7.6	8.4	9.2	9.9
77.5°	0.0	1.4	2.9	4.3	5.7	7.0	8.0	9.0	10.0	11.0	12.5
75°	0.0	1.7	3.4	5.1	6.7	8.0	9.2	10.4	11.8	14.2	16.6
72.5°	0.0	2.0	4.0	5.9	7.6	9.0	10.4	12.2	15.1	17.9	20.6
70°	0.0	2.3	4.5	6.7	8.4	10.0	11.8	15.1	18.3	21.5	25.1
67.5°	0.0	2.5	5.0	7.3	9.2	11.0	14.2	17.9	21.5	25.6	29.7
65°	0.0	2.8	5.6	7.9	9.9	12.5	16.6	20.6	25.1	29.7	35.2
62.5°	0.0	3.0	6.1	8.5	10.7	14.4	18.9	23.6	28.7	34.3	42.8
60°	0.0	3.3	6.6	9.0	11.5	16.3	21.1	26.7	32.2	41.1	50.3
57.5°	0.0	3.5	7.0	9.6	12.9	18.1	23.7	29.7	37.6	47.7	69.1
55°	0.0	3.8	7.3	10.1	14.3	19.9	26.2	32.6	43.3	57.4	92.9
52.5°	0.0	4.0	7.7	10.6	15.7	21.7	28.6	37.2	48.9	78.3	116.1
50°	0.0	4.2	8.0	11.1	17.1	23.7	31.0	42.0	58.0	98.5	159.7
47.5°	0.0	4.5	8.3	11.7	18.4	25.6	33.5	46.5	75.3	118.1	204.3
45°	0.0	4.7	8.6	12.7	19.6	27.4	37.2	50.9	92.1	156.3	247.3
42.5°	0.0	4.9	8.9	13.6	20.8	29.1	40.8	60.8	108.1	193.4	301.3
40°	0.0	5.1	9.2	14.4	22.1	30.8	44.3	74.2	128.7	228.9	354.9
37.5°	0.0	5.2	9.5	15.2	23.3	32.4	47.5	87.0	158.7	266.1	406.1
35°	0.0	5.4	9.7	16.0	24.5	34.6	50.6	99.0	187.0	309.6	456.5
32.5°	0.0	5.6	10.0	16.7	25.6	37.0	55.6	110.4	213.8	350.6	506.8
30°	0.0	5.7	10.2	17.4	26.7	39.3	64.6	123.6	238.8	388.9	554.0
27.5°	0.0	5.9	10.4	18.0	27.7	41.4	73.0	143.8	265.1	424.6	598.0
25°	0.0	6.0	10.6	18.6	28.6	43.3	80.8	162.5	294.2	459.7	638.8
22.5°	0.0	6.1	10.8	19.1	29.4	45.1	87.8	179.5	320.7	492.7	683.5
20°	0.0	6.2	10.9	19.6	30.1	46.6	94.2	194.8	344.5	522.5	723.8
17.5°	0.0	6.3	11.0	20.0	30.8	48.0	99.8	208.4	365.8	549.0	759.6
15°	0.0	6.4	11.2	20.4	31.3	49.3	104.7	220.2	384.3	572.1	790.9
12.5°	0.0	6.4	11.3	20.7	31.8	50.3	108.9	230.3	400.0	591.7	817.6
10°	0.0	6.5	11.4	20.9	32.2	51.2	112.4	238.6	413.0	607.9	839.5
7.5°	0.0	6.5	11.4	21.1	32.5	51.8	115.0	245.1	423.1	620.5	856.6
5°	0.0	6.6	11.5	21.3	32.7	52.3	117.0	249.7	430.3	629.6	868.9
2.5°	0.0	6.6	11.5	21.4	32.9	52.6	118.1	252.5	434.6	635.0	876.2
0°	0.0	6.6	11.5	21.4	32.9	52.6	118.1	252.5	434.6	635.0	876.2
-2.5°	0.0	6.6	11.5	21.4	32.9	52.6	118.1	252.5	434.6	635.0	876.2
-5°	0.0	6.6	11.5	21.3	32.7	52.3	117.0	249.7	430.3	629.6	868.9
-7.5°	0.0	6.5	11.4	21.1	32.5	51.8	115.0	245.1	423.1	620.5	856.6
-10°	0.0	6.5	11.4	20.9	32.2	51.2	112.4	238.6	413.0	607.9	839.5
-12.5°	0.0	6.4	11.3	20.7	31.8	50.3	108.9	230.3	400.0	591.7	817.6
-15°	0.0	6.4	11.2	20.4	31.3	49.3	104.7	220.2	384.3	572.1	790.9
-17.5°	0.0	6.3	11.0	20.0	30.8	48.0	99.8	208.4	365.8	549.0	759.6
-20°	0.0	6.2	10.9	19.6	30.1	46.6	94.2	194.8	344.5	522.5	723.8



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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	6.1	10.8	19.1	29.4	45.1	87.8	179.5	320.7	492.7	683.5
-25°	0.0	6.0	10.6	18.6	28.6	43.3	80.8	162.5	294.2	459.7	638.8
-27.5°	0.0	5.9	10.4	18.0	27.7	41.4	73.0	143.8	265.1	424.6	598.0
-30°	0.0	5.7	10.2	17.4	26.7	39.3	64.6	123.6	238.8	388.9	554.0
-32.5°	0.0	5.6	10.0	16.7	25.6	37.0	55.6	110.4	213.8	350.6	506.8
-35°	0.0	5.4	9.7	16.0	24.5	34.6	50.6	99.0	187.0	309.6	456.5
-37.5°	0.0	5.2	9.5	15.2	23.3	32.4	47.5	87.0	158.7	266.1	406.1
-40°	0.0	5.1	9.2	14.4	22.1	30.8	44.3	74.2	128.7	228.9	354.9
-42.5°	0.0	4.9	8.9	13.6	20.8	29.1	40.8	60.8	108.1	193.4	301.3
-45°	0.0	4.7	8.6	12.7	19.6	27.4	37.2	50.9	92.1	156.3	247.3
-47.5°	0.0	4.5	8.3	11.7	18.4	25.6	33.5	46.5	75.3	118.1	204.3
-50°	0.0	4.2	8.0	11.1	17.1	23.7	31.0	42.0	58.0	98.5	159.7
-52.5°	0.0	4.0	7.7	10.6	15.7	21.7	28.6	37.2	48.9	78.3	116.1
-55°	0.0	3.8	7.3	10.1	14.3	19.9	26.2	32.6	43.3	57.4	92.9
-57.5°	0.0	3.5	7.0	9.6	12.9	18.1	23.7	29.7	37.6	47.7	69.1
-60°	0.0	3.3	6.6	9.0	11.5	16.3	21.1	26.7	32.2	41.1	50.3
-62.5°	0.0	3.0	6.1	8.5	10.7	14.4	18.9	23.6	28.7	34.3	42.8
-65°	0.0	2.8	5.6	7.9	9.9	12.5	16.6	20.6	25.1	29.7	35.2
-67.5°	0.0	2.5	5.0	7.3	9.2	11.0	14.2	17.9	21.5	25.6	29.7
-70°	0.0	2.3	4.5	6.7	8.4	10.0	11.8	15.1	18.3	21.5	25.1
-72.5°	0.0	2.0	4.0	5.9	7.6	9.0	10.4	12.2	15.1	17.9	20.6
-75°	0.0	1.7	3.4	5.1	6.7	8.0	9.2	10.4	11.8	14.2	16.6
-77.5°	0.0	1.4	2.9	4.3	5.7	7.0	8.0	9.0	10.0	11.0	12.5
-80°	0.0	1.1	2.3	3.4	4.6	5.7	6.7	7.6	8.4	9.2	9.9
-82.5°	0.0	0.9	1.7	2.6	3.4	4.3	5.1	5.9	6.7	7.3	7.9
-85°	0.0	0.6	1.1	1.7	2.3	2.9	3.4	4.0	4.5	5.0	5.6
-87.5°	0.0	0.3	0.6	0.9	1.1	1.4	1.7	2.0	2.3	2.5	2.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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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°	3.0	3.3	3.5	3.8	4.0	4.2	4.5	4.7	4.9	5.1	5.2
85°	6.1	6.6	7.0	7.3	7.7	8.0	8.3	8.6	8.9	9.2	9.5
82.5°	8.5	9.0	9.6	10.1	10.6	11.1	11.7	12.7	13.6	14.4	15.2
80°	10.7	11.5	12.9	14.3	15.7	17.1	18.4	19.6	20.8	22.1	23.3
77.5°	14.4	16.3	18.1	19.9	21.7	23.7	25.6	27.4	29.1	30.8	32.4
75°	18.9	21.1	23.7	26.2	28.6	31.0	33.5	37.2	40.8	44.3	47.5
72.5°	23.6	26.7	29.7	32.6	37.2	42.0	46.5	50.9	60.8	74.2	87.0
70°	28.7	32.2	37.6	43.3	48.9	58.0	75.3	92.1	108.1	128.7	158.7
67.5°	34.3	41.1	47.7	57.4	78.3	98.5	118.1	156.3	193.4	228.9	266.1
65°	42.8	50.3	69.1	92.9	116.1	159.7	204.3	247.3	301.3	354.9	406.1
62.5°	51.2	75.0	101.8	137.8	190.0	240.8	302.9	367.2	429.0	493.5	555.7
60°	75.0	104.7	150.0	208.4	269.5	344.5	417.3	492.7	567.1	638.8	721.0
57.5°	101.8	150.0	214.5	286.3	369.7	452.5	539.2	623.1	717.8	811.5	901.8
55°	137.8	208.4	286.3	378.2	471.2	567.3	665.8	774.9	880.4	985.3	1085.7
52.5°	190.0	269.5	369.7	471.2	576.8	688.6	809.5	928.4	1045.7	1156.4	1256.9
50°	240.8	344.5	452.5	567.3	688.6	821.1	952.6	1082.3	1202.1	1314.4	1414.4
47.5°	302.9	417.3	539.2	665.8	809.5	952.6	1094.5	1225.1	1349.2	1455.4	1556.1
45°	367.2	492.7	623.1	774.9	928.4	1082.3	1225.1	1360.9	1476.0	1571.1	1606.0
42.5°	429.0	567.1	717.8	880.4	1045.7	1202.1	1349.2	1476.0	1574.6	1613.0	1657.5
40°	493.5	638.8	811.5	985.3	1156.4	1314.4	1455.4	1571.1	1613.0	1662.2	1715.4
37.5°	555.7	721.0	901.8	1085.7	1256.9	1414.4	1556.1	1606.0	1657.5	1715.4	1874.7
35°	614.7	799.2	990.0	1177.6	1352.7	1504.4	1592.3	1643.2	1705.7	1860.1	2346.6
32.5°	677.4	873.1	1073.5	1261.7	1433.1	1571.9	1622.1	1686.4	1816.7	2148.6	3361.6
30°	740.4	944.6	1150.3	1340.9	1508.0	1598.2	1657.9	1745.2	1944.7	3058.7	4235.9
27.5°	799.2	1011.6	1218.3	1408.0	1568.1	1622.8	1693.7	1857.8	2560.9	3887.3	5014.4
25°	853.5	1073.5	1281.2	1467.9	1589.2	1651.5	1744.6	1963.0	3313.2	4570.8	5294.5
22.5°	903.9	1130.0	1338.8	1522.8	1608.7	1680.0	1834.6	2524.7	3963.6	5181.5	5436.8
20°	950.3	1177.6	1387.2	1566.3	1626.3	1705.9	1916.5	3114.4	4502.8	5302.9	5533.2
17.5°	991.6	1219.9	1427.8	1580.8	1646.6	1750.2	2057.5	3644.0	4988.0	5412.3	5604.4
15°	1027.6	1256.9	1463.3	1593.4	1665.2	1809.6	2487.4	4049.0	5225.6	5498.1	5666.3
12.5°	1058.4	1288.4	1493.6	1604.2	1681.2	1860.4	2855.7	4387.9	5302.4	5548.3	5683.3
10°	1083.6	1314.4	1518.5	1613.1	1694.4	1902.4	3160.3	4668.6	5366.1	5590.0	5697.5
7.5°	1103.4	1334.7	1538.1	1620.1	1704.7	1935.4	3399.2	4889.0	5416.2	5622.9	5708.7
5°	1117.5	1349.2	1552.1	1625.1	1712.1	1959.0	3571.0	5047.7	5452.3	5646.6	5716.8
2.5°	1126.1	1358.0	1560.5	1628.1	1716.5	1973.2	3674.5	5143.3	5474.1	5660.9	5721.7
0°	1128.9	1360.9	1563.3	1629.1	1718.0	1978.0	3709.1	5175.3	5481.4	5665.7	5723.3
-2.5°	1126.1	1358.0	1560.5	1628.1	1716.5	1973.2	3674.5	5143.3	5474.1	5660.9	5721.7
-5°	1117.5	1349.2	1552.1	1625.1	1712.1	1959.0	3571.0	5047.7	5452.3	5646.6	5716.8
-7.5°	1103.4	1334.7	1538.1	1620.1	1704.7	1935.4	3399.2	4889.0	5416.2	5622.9	5708.7
-10°	1083.6	1314.4	1518.5	1613.1	1694.4	1902.4	3160.3	4668.6	5366.1	5590.0	5697.5
-12.5°	1058.4	1288.4	1493.6	1604.2	1681.2	1860.4	2855.7	4387.9	5302.4	5548.3	5683.3
-15°	1027.6	1256.9	1463.3	1593.4	1665.2	1809.6	2487.4	4049.0	5225.6	5498.1	5666.3
-17.5°	991.6	1219.9	1427.8	1580.8	1646.6	1750.2	2057.5	3644.0	4988.0	5412.3	5604.4
-20°	950.3	1177.6	1387.2	1566.3	1626.3	1705.9	1916.5	3114.4	4502.8	5302.9	5533.2



REPORT NUMBER: P731276 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	903.9	1130.0	1338.8	1522.8	1608.7	1680.0	1834.6	2524.7	3963.6	5181.5	5436.8
-25°	853.5	1073.5	1281.2	1467.9	1589.2	1651.5	1744.6	1963.0	3313.2	4570.8	5294.5
-27.5°	799.2	1011.6	1218.3	1408.0	1568.1	1622.8	1693.7	1857.8	2560.9	3887.3	5014.4
-30°	740.4	944.6	1150.3	1340.9	1508.0	1598.2	1657.9	1745.2	1944.7	3058.7	4235.9
-32.5°	677.4	873.1	1073.5	1261.7	1433.1	1571.9	1622.1	1686.4	1816.7	2148.6	3361.6
-35°	614.7	799.2	990.0	1177.6	1352.7	1504.4	1592.3	1643.2	1705.7	1860.1	2346.6
-37.5°	555.7	721.0	901.8	1085.7	1256.9	1414.4	1556.1	1606.0	1657.5	1715.4	1874.7
-40°	493.5	638.8	811.5	985.3	1156.4	1314.4	1455.4	1571.1	1613.0	1662.2	1715.4
-42.5°	429.0	567.1	717.8	880.4	1045.7	1202.1	1349.2	1476.0	1574.6	1613.0	1657.5
-45°	367.2	492.7	623.1	774.9	928.4	1082.3	1225.1	1360.9	1476.0	1571.1	1606.0
-47.5°	302.9	417.3	539.2	665.8	809.5	952.6	1094.5	1225.1	1349.2	1455.4	1556.1
-50°	240.8	344.5	452.5	567.3	688.6	821.1	952.6	1082.3	1202.1	1314.4	1414.4
-52.5°	190.0	269.5	369.7	471.2	576.8	688.6	809.5	928.4	1045.7	1156.4	1256.9
-55°	137.8	208.4	286.3	378.2	471.2	567.3	665.8	774.9	880.4	985.3	1085.7
-57.5°	101.8	150.0	214.5	286.3	369.7	452.5	539.2	623.1	717.8	811.5	901.8
-60°	75.0	104.7	150.0	208.4	269.5	344.5	417.3	492.7	567.1	638.8	721.0
-62.5°	51.2	75.0	101.8	137.8	190.0	240.8	302.9	367.2	429.0	493.5	555.7
-65°	42.8	50.3	69.1	92.9	116.1	159.7	204.3	247.3	301.3	354.9	406.1
-67.5°	34.3	41.1	47.7	57.4	78.3	98.5	118.1	156.3	193.4	228.9	266.1
-70°	28.7	32.2	37.6	43.3	48.9	58.0	75.3	92.1	108.1	128.7	158.7
-72.5°	23.6	26.7	29.7	32.6	37.2	42.0	46.5	50.9	60.8	74.2	87.0
-75°	18.9	21.1	23.7	26.2	28.6	31.0	33.5	37.2	40.8	44.3	47.5
-77.5°	14.4	16.3	18.1	19.9	21.7	23.7	25.6	27.4	29.1	30.8	32.4
-80°	10.7	11.5	12.9	14.3	15.7	17.1	18.4	19.6	20.8	22.1	23.3
-82.5°	8.5	9.0	9.6	10.1	10.6	11.1	11.7	12.7	13.6	14.4	15.2
-85°	6.1	6.6	7.0	7.3	7.7	8.0	8.3	8.6	8.9	9.2	9.5
-87.5°	3.0	3.3	3.5	3.8	4.0	4.2	4.5	4.7	4.9	5.1	5.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: EPH-LS-08-0680N-40-80-1S-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°	5.4	5.6	5.7	5.9	6.0	6.1	6.2	6.3	6.4	6.4	6.5
85°	9.7	10.0	10.2	10.4	10.6	10.8	10.9	11.0	11.2	11.3	11.4
82.5°	16.0	16.7	17.4	18.0	18.6	19.1	19.6	20.0	20.4	20.7	20.9
80°	24.5	25.6	26.7	27.7	28.6	29.4	30.1	30.8	31.3	31.8	32.2
77.5°	34.6	37.0	39.3	41.4	43.3	45.1	46.6	48.0	49.3	50.3	51.2
75°	50.6	55.6	64.6	73.0	80.8	87.8	94.2	99.8	104.7	108.9	112.4
72.5°	99.0	110.4	123.6	143.8	162.5	179.5	194.8	208.4	220.2	230.3	238.6
70°	187.0	213.8	238.8	265.1	294.2	320.7	344.5	365.8	384.3	400.0	413.0
67.5°	309.6	350.6	388.9	424.6	459.7	492.7	522.5	549.0	572.1	591.7	607.9
65°	456.5	506.8	554.0	598.0	638.8	683.5	723.8	759.6	790.9	817.6	839.5
62.5°	614.7	677.4	740.4	799.2	853.5	903.9	950.3	991.6	1027.6	1058.4	1083.6
60°	799.2	873.1	944.6	1011.6	1073.5	1130.0	1177.6	1219.9	1256.9	1288.4	1314.4
57.5°	990.0	1073.5	1150.3	1218.3	1281.2	1338.8	1387.2	1427.8	1463.3	1493.6	1518.5
55°	1177.6	1261.7	1340.9	1408.0	1467.9	1522.8	1566.3	1580.8	1593.4	1604.2	1613.1
52.5°	1352.7	1433.1	1508.0	1568.1	1589.2	1608.7	1626.3	1646.6	1665.2	1681.2	1694.4
50°	1504.4	1571.9	1598.2	1622.8	1651.5	1680.0	1705.9	1750.2	1809.6	1860.4	1902.4
47.5°	1592.3	1622.1	1657.9	1693.7	1744.6	1834.6	1916.5	2057.5	2487.4	2855.7	3160.3
45°	1643.2	1686.4	1745.2	1857.8	1963.0	2524.7	3114.4	3644.0	4049.0	4387.9	4668.6
42.5°	1705.7	1816.7	1944.7	2560.9	3313.2	3963.6	4502.8	4988.0	5225.6	5302.4	5366.1
40°	1860.1	2148.6	3058.7	3887.3	4570.8	5181.5	5302.9	5412.3	5498.1	5548.3	5590.0
37.5°	2346.6	3361.6	4235.9	5014.4	5294.5	5436.8	5533.2	5604.4	5666.3	5683.3	5697.5
35°	3463.3	4412.1	5198.2	5371.4	5513.6	5605.4	5673.3	5697.4	5718.7	5657.6	5584.7
32.5°	4412.1	5217.1	5410.4	5549.7	5654.7	5693.0	5721.5	5609.4	5500.2	5362.4	5209.3
30°	5198.2	5410.4	5561.8	5670.1	5705.1	5653.8	5509.4	5308.5	5080.4	4916.4	4873.8
27.5°	5371.4	5549.7	5670.1	5709.2	5614.2	5444.6	5145.7	4913.8	4850.7	4795.4	4908.8
25°	5513.6	5654.7	5705.1	5614.2	5404.7	5062.8	4880.9	4805.3	4938.0	5085.8	5362.2
22.5°	5605.4	5693.0	5653.8	5444.6	5062.8	4869.8	4827.2	5026.9	5356.0	5788.1	7288.7
20°	5673.3	5721.5	5509.4	5145.7	4880.9	4827.2	5057.0	5525.2	6488.6	10155.5	14494.5
17.5°	5697.4	5609.4	5308.5	4913.8	4805.3	5026.9	5525.2	7189.5	11641.7	21293.7	31476.2
15°	5718.7	5500.2	5080.4	4850.7	4938.0	5356.0	6488.6	11641.7	23625.9	38534.8	55275.3
12.5°	5657.6	5362.4	4916.4	4795.4	5085.8	5788.1	10155.5	21293.7	38534.8	59341.3	94583.8
10°	5584.7	5209.3	4873.8	4908.8	5362.2	7288.7	14494.5	31476.2	55275.3	94583.8	142431.9
7.5°	5527.1	5087.8	4839.9	5000.2	5631.4	9600.1	21956.6	43549.7	77506.3	129267.2	199996.3
5°	5485.4	4999.7	4815.2	5066.8	5828.7	11304.2	27500.5	52827.1	98217.6	164276.0	258618.3
2.5°	5460.2	4946.3	4800.2	5107.4	5949.2	12349.6	30921.4	58598.8	111258.0	189517.0	302475.2
0°	5451.7	4928.4	4795.2	5121.0	5989.8	12702.1	32078.5	60559.9	115719.0	199094.6	318140.9
-2.5°	5460.2	4946.3	4800.2	5107.4	5949.2	12349.6	30921.4	58598.8	111258.0	189517.0	302475.2
-5°	5485.4	4999.7	4815.2	5066.8	5828.7	11304.2	27500.5	52827.1	98217.6	164276.0	258618.3
-7.5°	5527.1	5087.8	4839.9	5000.2	5631.4	9600.1	21956.6	43549.7	77506.3	129267.2	199996.3
-10°	5584.7	5209.3	4873.8	4908.8	5362.2	7288.7	14494.5	31476.2	55275.3	94583.8	142431.9
-12.5°	5657.6	5362.4	4916.4	4795.4	5085.8	5788.1	10155.5	21293.7	38534.8	59341.3	94583.8
-15°	5718.7	5500.2	5080.4	4850.7	4938.0	5356.0	6488.6	11641.7	23625.9	38534.8	55275.3
-17.5°	5697.4	5609.4	5308.5	4913.8	4805.3	5026.9	5525.2	7189.5	11641.7	21293.7	31476.2
-20°	5673.3	5721.5	5509.4	5145.7	4880.9	4827.2	5057.0	5525.2	6488.6	10155.5	14494.5



REPORT NUMBER: P731276 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	5605.4	5693.0	5653.8	5444.6	5062.8	4869.8	4827.2	5026.9	5356.0	5788.1	7288.7
-25°	5513.6	5654.7	5705.1	5614.2	5404.7	5062.8	4880.9	4805.3	4938.0	5085.8	5362.2
-27.5°	5371.4	5549.7	5670.1	5709.2	5614.2	5444.6	5145.7	4913.8	4850.7	4795.4	4908.8
-30°	5198.2	5410.4	5561.8	5670.1	5705.1	5653.8	5509.4	5308.5	5080.4	4916.4	4873.8
-32.5°	4412.1	5217.1	5410.4	5549.7	5654.7	5693.0	5721.5	5609.4	5500.2	5362.4	5209.3
-35°	3463.3	4412.1	5198.2	5371.4	5513.6	5605.4	5673.3	5697.4	5718.7	5657.6	5584.7
-37.5°	2346.6	3361.6	4235.9	5014.4	5294.5	5436.8	5533.2	5604.4	5666.3	5683.3	5697.5
-40°	1860.1	2148.6	3058.7	3887.3	4570.8	5181.5	5302.9	5412.3	5498.1	5548.3	5590.0
-42.5°	1705.7	1816.7	1944.7	2560.9	3313.2	3963.6	4502.8	4988.0	5225.6	5302.4	5366.1
-45°	1643.2	1686.4	1745.2	1857.8	1963.0	2524.7	3114.4	3644.0	4049.0	4387.9	4668.6
-47.5°	1592.3	1622.1	1657.9	1693.7	1744.6	1834.6	1916.5	2057.5	2487.4	2855.7	3160.3
-50°	1504.4	1571.9	1598.2	1622.8	1651.5	1680.0	1705.9	1750.2	1809.6	1860.4	1902.4
-52.5°	1352.7	1433.1	1508.0	1568.1	1589.2	1608.7	1626.3	1646.6	1665.2	1681.2	1694.4
-55°	1177.6	1261.7	1340.9	1408.0	1467.9	1522.8	1566.3	1580.8	1593.4	1604.2	1613.1
-57.5°	990.0	1073.5	1150.3	1218.3	1281.2	1338.8	1387.2	1427.8	1463.3	1493.6	1518.5
-60°	799.2	873.1	944.6	1011.6	1073.5	1130.0	1177.6	1219.9	1256.9	1288.4	1314.4
-62.5°	614.7	677.4	740.4	799.2	853.5	903.9	950.3	991.6	1027.6	1058.4	1083.6
-65°	456.5	506.8	554.0	598.0	638.8	683.5	723.8	759.6	790.9	817.6	839.5
-67.5°	309.6	350.6	388.9	424.6	459.7	492.7	522.5	549.0	572.1	591.7	607.9
-70°	187.0	213.8	238.8	265.1	294.2	320.7	344.5	365.8	384.3	400.0	413.0
-72.5°	99.0	110.4	123.6	143.8	162.5	179.5	194.8	208.4	220.2	230.3	238.6
-75°	50.6	55.6	64.6	73.0	80.8	87.8	94.2	99.8	104.7	108.9	112.4
-77.5°	34.6	37.0	39.3	41.4	43.3	45.1	46.6	48.0	49.3	50.3	51.2
-80°	24.5	25.6	26.7	27.7	28.6	29.4	30.1	30.8	31.3	31.8	32.2
-82.5°	16.0	16.7	17.4	18.0	18.6	19.1	19.6	20.0	20.4	20.7	20.9
-85°	9.7	10.0	10.2	10.4	10.6	10.8	10.9	11.0	11.2	11.3	11.4
-87.5°	5.4	5.6	5.7	5.9	6.0	6.1	6.2	6.3	6.4	6.4	6.5
-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: P731276 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-1S-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°	6.5	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.4	6.4	6.3
85°	11.4	11.5	11.5	11.5	11.5	11.5	11.4	11.4	11.3	11.2	11.0
82.5°	21.1	21.3	21.4	21.4	21.4	21.3	21.1	20.9	20.7	20.4	20.0
80°	32.5	32.7	32.9	32.9	32.9	32.7	32.5	32.2	31.8	31.3	30.8
77.5°	51.8	52.3	52.6	52.7	52.6	52.3	51.8	51.2	50.3	49.3	48.0
75°	115.0	117.0	118.1	118.5	118.1	117.0	115.0	112.4	108.9	104.7	99.8
72.5°	245.1	249.7	252.5	253.4	252.5	249.7	245.1	238.6	230.3	220.2	208.4
70°	423.1	430.3	434.6	436.1	434.6	430.3	423.1	413.0	400.0	384.3	365.8
67.5°	620.5	629.6	635.0	636.8	635.0	629.6	620.5	607.9	591.7	572.1	549.0
65°	856.6	868.9	876.2	878.7	876.2	868.9	856.6	839.5	817.6	790.9	759.6
62.5°	1103.4	1117.5	1126.1	1128.9	1126.1	1117.5	1103.4	1083.6	1058.4	1027.6	991.6
60°	1334.7	1349.2	1358.0	1360.9	1358.0	1349.2	1334.7	1314.4	1288.4	1256.9	1219.9
57.5°	1538.1	1552.1	1560.5	1563.3	1560.5	1552.1	1538.1	1518.5	1493.6	1463.3	1427.8
55°	1620.1	1625.1	1628.1	1629.1	1628.1	1625.1	1620.1	1613.1	1604.2	1593.4	1580.8
52.5°	1704.7	1712.1	1716.5	1718.0	1716.5	1712.1	1704.7	1694.4	1681.2	1665.2	1646.6
50°	1935.4	1959.0	1973.2	1978.0	1973.2	1959.0	1935.4	1902.4	1860.4	1809.6	1750.2
47.5°	3399.2	3571.0	3674.5	3709.1	3674.5	3571.0	3399.2	3160.3	2855.7	2487.4	2057.5
45°	4889.0	5047.7	5143.3	5175.3	5143.3	5047.7	4889.0	4668.6	4387.9	4049.0	3644.0
42.5°	5416.2	5452.3	5474.1	5481.4	5474.1	5452.3	5416.2	5366.1	5302.4	5225.6	4988.0
40°	5622.9	5646.6	5660.9	5665.7	5660.9	5646.6	5622.9	5590.0	5548.3	5498.1	5412.3
37.5°	5708.7	5716.8	5721.7	5723.3	5721.7	5716.8	5708.7	5697.5	5683.3	5666.3	5604.4
35°	5527.1	5485.4	5460.2	5451.7	5460.2	5485.4	5527.1	5584.7	5657.6	5718.7	5697.4
32.5°	5087.8	4999.7	4946.3	4928.4	4946.3	4999.7	5087.8	5209.3	5362.4	5500.2	5609.4
30°	4839.9	4815.2	4800.2	4795.2	4800.2	4815.2	4839.9	4873.8	4916.4	5080.4	5308.5
27.5°	5000.2	5066.8	5107.4	5121.0	5107.4	5066.8	5000.2	4908.8	4795.4	4850.7	4913.8
25°	5631.4	5828.7	5949.2	5989.8	5949.2	5828.7	5631.4	5362.2	5085.8	4938.0	4805.3
22.5°	9600.1	11304.2	12349.6	12702.1	12349.6	11304.2	9600.1	7288.7	5788.1	5356.0	5026.9
20°	21956.6	27500.5	30921.4	32078.5	30921.4	27500.5	21956.6	14494.5	10155.5	6488.6	5525.2
17.5°	43549.7	52827.1	58598.8	60559.9	58598.8	52827.1	43549.7	31476.2	21293.7	11641.7	7189.5
15°	77506.3	98217.6	111258.0	115719.0	111258.0	98217.6	77506.3	55275.3	38534.8	23625.9	11641.7
12.5°	129267.2	164276.0	189517.0	199094.6	189517.0	164276.0	129267.2	94583.8	59341.3	38534.8	21293.7
10°	199996.3	258618.3	302475.2	318140.9	302475.2	258618.3	199996.3	142431.9	94583.8	55275.3	31476.2
7.5°	287732.3	366522.4	421884.8	440734.2	421884.8	366522.4	287732.3	199996.3	129267.2	77506.3	43549.7
5°	366522.4	460984.9	524167.3	547540.1	524167.3	460984.9	366522.4	258618.3	164276.0	98217.6	52827.1
2.5°	421884.8	524167.3	599137.9	634686.4	599137.9	524167.3	421884.8	302475.2	189517.0	111258.0	58598.8
0°	440734.2	547540.1	634686.4	687174.0	634686.4	547540.1	440734.2	318140.9	199094.6	115719.0	60559.9
-2.5°	421884.8	524167.3	599137.9	634686.4	599137.9	524167.3	421884.8	302475.2	189517.0	111258.0	58598.8
-5°	366522.4	460984.9	524167.3	547540.1	524167.3	460984.9	366522.4	258618.3	164276.0	98217.6	52827.1
-7.5°	287732.3	366522.4	421884.8	440734.2	421884.8	366522.4	287732.3	199996.3	129267.2	77506.3	43549.7
-10°	199996.3	258618.3	302475.2	318140.9	302475.2	258618.3	199996.3	142431.9	94583.8	55275.3	31476.2
-12.5°	129267.2	164276.0	189517.0	199094.6	189517.0	164276.0	129267.2	94583.8	59341.3	38534.8	21293.7
-15°	77506.3	98217.6	111258.0	115719.0	111258.0	98217.6	77506.3	55275.3	38534.8	23625.9	11641.7
-17.5°	43549.7	52827.1	58598.8	60559.9	58598.8	52827.1	43549.7	31476.2	21293.7	11641.7	7189.5
-20°	21956.6	27500.5	30921.4	32078.5	30921.4	27500.5	21956.6	14494.5	10155.5	6488.6	5525.2



REPORT NUMBER: P731276 (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°	9600.1	11304.2	12349.6	12702.1	12349.6	11304.2	9600.1	7288.7	5788.1	5356.0	5026.9
-25°	5631.4	5828.7	5949.2	5989.8	5949.2	5828.7	5631.4	5362.2	5085.8	4938.0	4805.3
-27.5°	5000.2	5066.8	5107.4	5121.0	5107.4	5066.8	5000.2	4908.8	4795.4	4850.7	4913.8
-30°	4839.9	4815.2	4800.2	4795.2	4800.2	4815.2	4839.9	4873.8	4916.4	5080.4	5308.5
-32.5°	5087.8	4999.7	4946.3	4928.4	4946.3	4999.7	5087.8	5209.3	5362.4	5500.2	5609.4
-35°	5527.1	5485.4	5460.2	5451.7	5460.2	5485.4	5527.1	5584.7	5657.6	5718.7	5697.4
-37.5°	5708.7	5716.8	5721.7	5723.3	5721.7	5716.8	5708.7	5697.5	5683.3	5666.3	5604.4
-40°	5622.9	5646.6	5660.9	5665.7	5660.9	5646.6	5622.9	5590.0	5548.3	5498.1	5412.3
-42.5°	5416.2	5452.3	5474.1	5481.4	5474.1	5452.3	5416.2	5366.1	5302.4	5225.6	4988.0
-45°	4889.0	5047.7	5143.3	5175.3	5143.3	5047.7	4889.0	4668.6	4387.9	4049.0	3644.0
-47.5°	3399.2	3571.0	3674.5	3709.1	3674.5	3571.0	3399.2	3160.3	2855.7	2487.4	2057.5
-50°	1935.4	1959.0	1973.2	1978.0	1973.2	1959.0	1935.4	1902.4	1860.4	1809.6	1750.2
-52.5°	1704.7	1712.1	1716.5	1718.0	1716.5	1712.1	1704.7	1694.4	1681.2	1665.2	1646.6
-55°	1620.1	1625.1	1628.1	1629.1	1628.1	1625.1	1620.1	1613.1	1604.2	1593.4	1580.8
-57.5°	1538.1	1552.1	1560.5	1563.3	1560.5	1552.1	1538.1	1518.5	1493.6	1463.3	1427.8
-60°	1334.7	1349.2	1358.0	1360.9	1358.0	1349.2	1334.7	1314.4	1288.4	1256.9	1219.9
-62.5°	1103.4	1117.5	1126.1	1128.9	1126.1	1117.5	1103.4	1083.6	1058.4	1027.6	991.6
-65°	856.6	868.9	876.2	878.7	876.2	868.9	856.6	839.5	817.6	790.9	759.6
-67.5°	620.5	629.6	635.0	636.8	635.0	629.6	620.5	607.9	591.7	572.1	549.0
-70°	423.1	430.3	434.6	436.1	434.6	430.3	423.1	413.0	400.0	384.3	365.8
-72.5°	245.1	249.7	252.5	253.4	252.5	249.7	245.1	238.6	230.3	220.2	208.4
-75°	115.0	117.0	118.1	118.5	118.1	117.0	115.0	112.4	108.9	104.7	99.8
-77.5°	51.8	52.3	52.6	52.7	52.6	52.3	51.8	51.2	50.3	49.3	48.0
-80°	32.5	32.7	32.9	32.9	32.9	32.7	32.5	32.2	31.8	31.3	30.8
-82.5°	21.1	21.3	21.4	21.4	21.4	21.3	21.1	20.9	20.7	20.4	20.0
-85°	11.4	11.5	11.5	11.5	11.5	11.5	11.4	11.4	11.3	11.2	11.0
-87.5°	6.5	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.4	6.4	6.3
-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°	6.2	6.1	6.0	5.9	5.7	5.6	5.4	5.2	5.1	4.9	4.7
85°	10.9	10.8	10.6	10.4	10.2	10.0	9.7	9.5	9.2	8.9	8.6
82.5°	19.6	19.1	18.6	18.0	17.4	16.7	16.0	15.2	14.4	13.6	12.7
80°	30.1	29.4	28.6	27.7	26.7	25.6	24.5	23.3	22.1	20.8	19.6
77.5°	46.6	45.1	43.3	41.4	39.3	37.0	34.6	32.4	30.8	29.1	27.4
75°	94.2	87.8	80.8	73.0	64.6	55.6	50.6	47.5	44.3	40.8	37.2
72.5°	194.8	179.5	162.5	143.8	123.6	110.4	99.0	87.0	74.2	60.8	50.9
70°	344.5	320.7	294.2	265.1	238.8	213.8	187.0	158.7	128.7	108.1	92.1
67.5°	522.5	492.7	459.7	424.6	388.9	350.6	309.6	266.1	228.9	193.4	156.3
65°	723.8	683.5	638.8	598.0	554.0	506.8	456.5	406.1	354.9	301.3	247.3
62.5°	950.3	903.9	853.5	799.2	740.4	677.4	614.7	555.7	493.5	429.0	367.2
60°	1177.6	1130.0	1073.5	1011.6	944.6	873.1	799.2	721.0	638.8	567.1	492.7
57.5°	1387.2	1338.8	1281.2	1218.3	1150.3	1073.5	990.0	901.8	811.5	717.8	623.1
55°	1566.3	1522.8	1467.9	1408.0	1340.9	1261.7	1177.6	1085.7	985.3	880.4	774.9
52.5°	1626.3	1608.7	1589.2	1568.1	1508.0	1433.1	1352.7	1256.9	1156.4	1045.7	928.4
50°	1705.9	1680.0	1651.5	1622.8	1598.2	1571.9	1504.4	1414.4	1314.4	1202.1	1082.3
47.5°	1916.5	1834.6	1744.6	1693.7	1657.9	1622.1	1592.3	1556.1	1455.4	1349.2	1225.1
45°	3114.4	2524.7	1963.0	1857.8	1745.2	1686.4	1643.2	1606.0	1571.1	1476.0	1360.9
42.5°	4502.8	3963.6	3313.2	2560.9	1944.7	1816.7	1705.7	1657.5	1613.0	1574.6	1476.0
40°	5302.9	5181.5	4570.8	3887.3	3058.7	2148.6	1860.1	1715.4	1662.2	1613.0	1571.1
37.5°	5533.2	5436.8	5294.5	5014.4	4235.9	3361.6	2346.6	1874.7	1715.4	1657.5	1606.0
35°	5673.3	5605.4	5513.6	5371.4	5198.2	4412.1	3463.3	2346.6	1860.1	1705.7	1643.2
32.5°	5721.5	5693.0	5654.7	5549.7	5410.4	5217.1	4412.1	3361.6	2148.6	1816.7	1686.4
30°	5509.4	5653.8	5705.1	5670.1	5561.8	5410.4	5198.2	4235.9	3058.7	1944.7	1745.2
27.5°	5145.7	5444.6	5614.2	5709.2	5670.1	5549.7	5371.4	5014.4	3887.3	2560.9	1857.8
25°	4880.9	5062.8	5404.7	5614.2	5705.1	5654.7	5513.6	5294.5	4570.8	3313.2	1963.0
22.5°	4827.2	4869.8	5062.8	5444.6	5653.8	5693.0	5605.4	5436.8	5181.5	3963.6	2524.7
20°	5057.0	4827.2	4880.9	5145.7	5509.4	5721.5	5673.3	5533.2	5302.9	4502.8	3114.4
17.5°	5525.2	5026.9	4805.3	4913.8	5308.5	5609.4	5697.4	5604.4	5412.3	4988.0	3644.0
15°	6488.6	5356.0	4938.0	4850.7	5080.4	5500.2	5718.7	5666.3	5498.1	5225.6	4049.0
12.5°	10155.5	5788.1	5085.8	4795.4	4916.4	5362.4	5657.6	5683.3	5548.3	5302.4	4387.9
10°	14494.5	7288.7	5362.2	4908.8	4873.8	5209.3	5584.7	5697.5	5590.0	5366.1	4668.6
7.5°	21956.6	9600.1	5631.4	5000.2	4839.9	5087.8	5527.1	5708.7	5622.9	5416.2	4889.0
5°	27500.5	11304.2	5828.7	5066.8	4815.2	4999.7	5485.4	5716.8	5646.6	5452.3	5047.7
2.5°	30921.4	12349.6	5949.2	5107.4	4800.2	4946.3	5460.2	5721.7	5660.9	5474.1	5143.3
0°	32078.5	12702.1	5989.8	5121.0	4795.2	4928.4	5451.7	5723.3	5665.7	5481.4	5175.3
-2.5°	30921.4	12349.6	5949.2	5107.4	4800.2	4946.3	5460.2	5721.7	5660.9	5474.1	5143.3
-5°	27500.5	11304.2	5828.7	5066.8	4815.2	4999.7	5485.4	5716.8	5646.6	5452.3	5047.7
-7.5°	21956.6	9600.1	5631.4	5000.2	4839.9	5087.8	5527.1	5708.7	5622.9	5416.2	4889.0
-10°	14494.5	7288.7	5362.2	4908.8	4873.8	5209.3	5584.7	5697.5	5590.0	5366.1	4668.6
-12.5°	10155.5	5788.1	5085.8	4795.4	4916.4	5362.4	5657.6	5683.3	5548.3	5302.4	4387.9
-15°	6488.6	5356.0	4938.0	4850.7	5080.4	5500.2	5718.7	5666.3	5498.1	5225.6	4049.0
-17.5°	5525.2	5026.9	4805.3	4913.8	5308.5	5609.4	5697.4	5604.4	5412.3	4988.0	3644.0
-20°	5057.0	4827.2	4880.9	5145.7	5509.4	5721.5	5673.3	5533.2	5302.9	4502.8	3114.4



REPORT NUMBER: P731276 (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°	4827.2	4869.8	5062.8	5444.6	5653.8	5693.0	5605.4	5436.8	5181.5	3963.6	2524.7
-25°	4880.9	5062.8	5404.7	5614.2	5705.1	5654.7	5513.6	5294.5	4570.8	3313.2	1963.0
-27.5°	5145.7	5444.6	5614.2	5709.2	5670.1	5549.7	5371.4	5014.4	3887.3	2560.9	1857.8
-30°	5509.4	5653.8	5705.1	5670.1	5561.8	5410.4	5198.2	4235.9	3058.7	1944.7	1745.2
-32.5°	5721.5	5693.0	5654.7	5549.7	5410.4	5217.1	4412.1	3361.6	2148.6	1816.7	1686.4
-35°	5673.3	5605.4	5513.6	5371.4	5198.2	4412.1	3463.3	2346.6	1860.1	1705.7	1643.2
-37.5°	5533.2	5436.8	5294.5	5014.4	4235.9	3361.6	2346.6	1874.7	1715.4	1657.5	1606.0
-40°	5302.9	5181.5	4570.8	3887.3	3058.7	2148.6	1860.1	1715.4	1662.2	1613.0	1571.1
-42.5°	4502.8	3963.6	3313.2	2560.9	1944.7	1816.7	1705.7	1657.5	1613.0	1574.6	1476.0
-45°	3114.4	2524.7	1963.0	1857.8	1745.2	1686.4	1643.2	1606.0	1571.1	1476.0	1360.9
-47.5°	1916.5	1834.6	1744.6	1693.7	1657.9	1622.1	1592.3	1556.1	1455.4	1349.2	1225.1
-50°	1705.9	1680.0	1651.5	1622.8	1598.2	1571.9	1504.4	1414.4	1314.4	1202.1	1082.3
-52.5°	1626.3	1608.7	1589.2	1568.1	1508.0	1433.1	1352.7	1256.9	1156.4	1045.7	928.4
-55°	1566.3	1522.8	1467.9	1408.0	1340.9	1261.7	1177.6	1085.7	985.3	880.4	774.9
-57.5°	1387.2	1338.8	1281.2	1218.3	1150.3	1073.5	990.0	901.8	811.5	717.8	623.1
-60°	1177.6	1130.0	1073.5	1011.6	944.6	873.1	799.2	721.0	638.8	567.1	492.7
-62.5°	950.3	903.9	853.5	799.2	740.4	677.4	614.7	555.7	493.5	429.0	367.2
-65°	723.8	683.5	638.8	598.0	554.0	506.8	456.5	406.1	354.9	301.3	247.3
-67.5°	522.5	492.7	459.7	424.6	388.9	350.6	309.6	266.1	228.9	193.4	156.3
-70°	344.5	320.7	294.2	265.1	238.8	213.8	187.0	158.7	128.7	108.1	92.1
-72.5°	194.8	179.5	162.5	143.8	123.6	110.4	99.0	87.0	74.2	60.8	50.9
-75°	94.2	87.8	80.8	73.0	64.6	55.6	50.6	47.5	44.3	40.8	37.2
-77.5°	46.6	45.1	43.3	41.4	39.3	37.0	34.6	32.4	30.8	29.1	27.4
-80°	30.1	29.4	28.6	27.7	26.7	25.6	24.5	23.3	22.1	20.8	19.6
-82.5°	19.6	19.1	18.6	18.0	17.4	16.7	16.0	15.2	14.4	13.6	12.7
-85°	10.9	10.8	10.6	10.4	10.2	10.0	9.7	9.5	9.2	8.9	8.6
-87.5°	6.2	6.1	6.0	5.9	5.7	5.6	5.4	5.2	5.1	4.9	4.7
-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: P731276 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-1S-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°	4.5	4.2	4.0	3.8	3.5	3.3	3.0	2.8	2.5	2.3	2.0
85°	8.3	8.0	7.7	7.3	7.0	6.6	6.1	5.6	5.0	4.5	4.0
82.5°	11.7	11.1	10.6	10.1	9.6	9.0	8.5	7.9	7.3	6.7	5.9
80°	18.4	17.1	15.7	14.3	12.9	11.5	10.7	9.9	9.2	8.4	7.6
77.5°	25.6	23.7	21.7	19.9	18.1	16.3	14.4	12.5	11.0	10.0	9.0
75°	33.5	31.0	28.6	26.2	23.7	21.1	18.9	16.6	14.2	11.8	10.4
72.5°	46.5	42.0	37.2	32.6	29.7	26.7	23.6	20.6	17.9	15.1	12.2
70°	75.3	58.0	48.9	43.3	37.6	32.2	28.7	25.1	21.5	18.3	15.1
67.5°	118.1	98.5	78.3	57.4	47.7	41.1	34.3	29.7	25.6	21.5	17.9
65°	204.3	159.7	116.1	92.9	69.1	50.3	42.8	35.2	29.7	25.1	20.6
62.5°	302.9	240.8	190.0	137.8	101.8	75.0	51.2	42.8	34.3	28.7	23.6
60°	417.3	344.5	269.5	208.4	150.0	104.7	75.0	50.3	41.1	32.2	26.7
57.5°	539.2	452.5	369.7	286.3	214.5	150.0	101.8	69.1	47.7	37.6	29.7
55°	665.8	567.3	471.2	378.2	286.3	208.4	137.8	92.9	57.4	43.3	32.6
52.5°	809.5	688.6	576.8	471.2	369.7	269.5	190.0	116.1	78.3	48.9	37.2
50°	952.6	821.1	688.6	567.3	452.5	344.5	240.8	159.7	98.5	58.0	42.0
47.5°	1094.5	952.6	809.5	665.8	539.2	417.3	302.9	204.3	118.1	75.3	46.5
45°	1225.1	1082.3	928.4	774.9	623.1	492.7	367.2	247.3	156.3	92.1	50.9
42.5°	1349.2	1202.1	1045.7	880.4	717.8	567.1	429.0	301.3	193.4	108.1	60.8
40°	1455.4	1314.4	1156.4	985.3	811.5	638.8	493.5	354.9	228.9	128.7	74.2
37.5°	1556.1	1414.4	1256.9	1085.7	901.8	721.0	555.7	406.1	266.1	158.7	87.0
35°	1592.3	1504.4	1352.7	1177.6	990.0	799.2	614.7	456.5	309.6	187.0	99.0
32.5°	1622.1	1571.9	1433.1	1261.7	1073.5	873.1	677.4	506.8	350.6	213.8	110.4
30°	1657.9	1598.2	1508.0	1340.9	1150.3	944.6	740.4	554.0	388.9	238.8	123.6
27.5°	1693.7	1622.8	1568.1	1408.0	1218.3	1011.6	799.2	598.0	424.6	265.1	143.8
25°	1744.6	1651.5	1589.2	1467.9	1281.2	1073.5	853.5	638.8	459.7	294.2	162.5
22.5°	1834.6	1680.0	1608.7	1522.8	1338.8	1130.0	903.9	683.5	492.7	320.7	179.5
20°	1916.5	1705.9	1626.3	1566.3	1387.2	1177.6	950.3	723.8	522.5	344.5	194.8
17.5°	2057.5	1750.2	1646.6	1580.8	1427.8	1219.9	991.6	759.6	549.0	365.8	208.4
15°	2487.4	1809.6	1665.2	1593.4	1463.3	1256.9	1027.6	790.9	572.1	384.3	220.2
12.5°	2855.7	1860.4	1681.2	1604.2	1493.6	1288.4	1058.4	817.6	591.7	400.0	230.3
10°	3160.3	1902.4	1694.4	1613.1	1518.5	1314.4	1083.6	839.5	607.9	413.0	238.6
7.5°	3399.2	1935.4	1704.7	1620.1	1538.1	1334.7	1103.4	856.6	620.5	423.1	245.1
5°	3571.0	1959.0	1712.1	1625.1	1552.1	1349.2	1117.5	868.9	629.6	430.3	249.7
2.5°	3674.5	1973.2	1716.5	1628.1	1560.5	1358.0	1126.1	876.2	635.0	434.6	252.5
0°	3709.1	1978.0	1718.0	1629.1	1563.3	1360.9	1128.9	878.7	636.8	436.1	253.4
-2.5°	3674.5	1973.2	1716.5	1628.1	1560.5	1358.0	1126.1	876.2	635.0	434.6	252.5
-5°	3571.0	1959.0	1712.1	1625.1	1552.1	1349.2	1117.5	868.9	629.6	430.3	249.7
-7.5°	3399.2	1935.4	1704.7	1620.1	1538.1	1334.7	1103.4	856.6	620.5	423.1	245.1
-10°	3160.3	1902.4	1694.4	1613.1	1518.5	1314.4	1083.6	839.5	607.9	413.0	238.6
-12.5°	2855.7	1860.4	1681.2	1604.2	1493.6	1288.4	1058.4	817.6	591.7	400.0	230.3
-15°	2487.4	1809.6	1665.2	1593.4	1463.3	1256.9	1027.6	790.9	572.1	384.3	220.2
-17.5°	2057.5	1750.2	1646.6	1580.8	1427.8	1219.9	991.6	759.6	549.0	365.8	208.4
-20°	1916.5	1705.9	1626.3	1566.3	1387.2	1177.6	950.3	723.8	522.5	344.5	194.8



REPORT NUMBER: P731276 (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°	1834.6	1680.0	1608.7	1522.8	1338.8	1130.0	903.9	683.5	492.7	320.7	179.5
-25°	1744.6	1651.5	1589.2	1467.9	1281.2	1073.5	853.5	638.8	459.7	294.2	162.5
-27.5°	1693.7	1622.8	1568.1	1408.0	1218.3	1011.6	799.2	598.0	424.6	265.1	143.8
-30°	1657.9	1598.2	1508.0	1340.9	1150.3	944.6	740.4	554.0	388.9	238.8	123.6
-32.5°	1622.1	1571.9	1433.1	1261.7	1073.5	873.1	677.4	506.8	350.6	213.8	110.4
-35°	1592.3	1504.4	1352.7	1177.6	990.0	799.2	614.7	456.5	309.6	187.0	99.0
-37.5°	1556.1	1414.4	1256.9	1085.7	901.8	721.0	555.7	406.1	266.1	158.7	87.0
-40°	1455.4	1314.4	1156.4	985.3	811.5	638.8	493.5	354.9	228.9	128.7	74.2
-42.5°	1349.2	1202.1	1045.7	880.4	717.8	567.1	429.0	301.3	193.4	108.1	60.8
-45°	1225.1	1082.3	928.4	774.9	623.1	492.7	367.2	247.3	156.3	92.1	50.9
-47.5°	1094.5	952.6	809.5	665.8	539.2	417.3	302.9	204.3	118.1	75.3	46.5
-50°	952.6	821.1	688.6	567.3	452.5	344.5	240.8	159.7	98.5	58.0	42.0
-52.5°	809.5	688.6	576.8	471.2	369.7	269.5	190.0	116.1	78.3	48.9	37.2
-55°	665.8	567.3	471.2	378.2	286.3	208.4	137.8	92.9	57.4	43.3	32.6
-57.5°	539.2	452.5	369.7	286.3	214.5	150.0	101.8	69.1	47.7	37.6	29.7
-60°	417.3	344.5	269.5	208.4	150.0	104.7	75.0	50.3	41.1	32.2	26.7
-62.5°	302.9	240.8	190.0	137.8	101.8	75.0	51.2	42.8	34.3	28.7	23.6
-65°	204.3	159.7	116.1	92.9	69.1	50.3	42.8	35.2	29.7	25.1	20.6
-67.5°	118.1	98.5	78.3	57.4	47.7	41.1	34.3	29.7	25.6	21.5	17.9
-70°	75.3	58.0	48.9	43.3	37.6	32.2	28.7	25.1	21.5	18.3	15.1
-72.5°	46.5	42.0	37.2	32.6	29.7	26.7	23.6	20.6	17.9	15.1	12.2
-75°	33.5	31.0	28.6	26.2	23.7	21.1	18.9	16.6	14.2	11.8	10.4
-77.5°	25.6	23.7	21.7	19.9	18.1	16.3	14.4	12.5	11.0	10.0	9.0
-80°	18.4	17.1	15.7	14.3	12.9	11.5	10.7	9.9	9.2	8.4	7.6
-82.5°	11.7	11.1	10.6	10.1	9.6	9.0	8.5	7.9	7.3	6.7	5.9
-85°	8.3	8.0	7.7	7.3	7.0	6.6	6.1	5.6	5.0	4.5	4.0
-87.5°	4.5	4.2	4.0	3.8	3.5	3.3	3.0	2.8	2.5	2.3	2.0
-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):**

	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°	1.7	1.4	1.1	0.9	0.6	0.3	0.0
85°	3.4	2.9	2.3	1.7	1.1	0.6	0.0
82.5°	5.1	4.3	3.4	2.6	1.7	0.9	0.0
80°	6.7	5.7	4.6	3.4	2.3	1.1	0.0
77.5°	8.0	7.0	5.7	4.3	2.9	1.4	0.0
75°	9.2	8.0	6.7	5.1	3.4	1.7	0.0
72.5°	10.4	9.0	7.6	5.9	4.0	2.0	0.0
70°	11.8	10.0	8.4	6.7	4.5	2.3	0.0
67.5°	14.2	11.0	9.2	7.3	5.0	2.5	0.0
65°	16.6	12.5	9.9	7.9	5.6	2.8	0.0
62.5°	18.9	14.4	10.7	8.5	6.1	3.0	0.0
60°	21.1	16.3	11.5	9.0	6.6	3.3	0.0
57.5°	23.7	18.1	12.9	9.6	7.0	3.5	0.0
55°	26.2	19.9	14.3	10.1	7.3	3.8	0.0
52.5°	28.6	21.7	15.7	10.6	7.7	4.0	0.0
50°	31.0	23.7	17.1	11.1	8.0	4.2	0.0
47.5°	33.5	25.6	18.4	11.7	8.3	4.5	0.0
45°	37.2	27.4	19.6	12.7	8.6	4.7	0.0
42.5°	40.8	29.1	20.8	13.6	8.9	4.9	0.0
40°	44.3	30.8	22.1	14.4	9.2	5.1	0.0
37.5°	47.5	32.4	23.3	15.2	9.5	5.2	0.0
35°	50.6	34.6	24.5	16.0	9.7	5.4	0.0
32.5°	55.6	37.0	25.6	16.7	10.0	5.6	0.0
30°	64.6	39.3	26.7	17.4	10.2	5.7	0.0
27.5°	73.0	41.4	27.7	18.0	10.4	5.9	0.0
25°	80.8	43.3	28.6	18.6	10.6	6.0	0.0
22.5°	87.8	45.1	29.4	19.1	10.8	6.1	0.0
20°	94.2	46.6	30.1	19.6	10.9	6.2	0.0
17.5°	99.8	48.0	30.8	20.0	11.0	6.3	0.0
15°	104.7	49.3	31.3	20.4	11.2	6.4	0.0
12.5°	108.9	50.3	31.8	20.7	11.3	6.4	0.0
10°	112.4	51.2	32.2	20.9	11.4	6.5	0.0
7.5°	115.0	51.8	32.5	21.1	11.4	6.5	0.0
5°	117.0	52.3	32.7	21.3	11.5	6.6	0.0
2.5°	118.1	52.6	32.9	21.4	11.5	6.6	0.0
0°	118.5	52.7	32.9	21.4	11.5	6.6	0.0
-2.5°	118.1	52.6	32.9	21.4	11.5	6.6	0.0
-5°	117.0	52.3	32.7	21.3	11.5	6.6	0.0
-7.5°	115.0	51.8	32.5	21.1	11.4	6.5	0.0
-10°	112.4	51.2	32.2	20.9	11.4	6.5	0.0
-12.5°	108.9	50.3	31.8	20.7	11.3	6.4	0.0
-15°	104.7	49.3	31.3	20.4	11.2	6.4	0.0
-17.5°	99.8	48.0	30.8	20.0	11.0	6.3	0.0
-20°	94.2	46.6	30.1	19.6	10.9	6.2	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	87.8	45.1	29.4	19.1	10.8	6.1	0.0
-25°	80.8	43.3	28.6	18.6	10.6	6.0	0.0
-27.5°	73.0	41.4	27.7	18.0	10.4	5.9	0.0
-30°	64.6	39.3	26.7	17.4	10.2	5.7	0.0
-32.5°	55.6	37.0	25.6	16.7	10.0	5.6	0.0
-35°	50.6	34.6	24.5	16.0	9.7	5.4	0.0
-37.5°	47.5	32.4	23.3	15.2	9.5	5.2	0.0
-40°	44.3	30.8	22.1	14.4	9.2	5.1	0.0
-42.5°	40.8	29.1	20.8	13.6	8.9	4.9	0.0
-45°	37.2	27.4	19.6	12.7	8.6	4.7	0.0
-47.5°	33.5	25.6	18.4	11.7	8.3	4.5	0.0
-50°	31.0	23.7	17.1	11.1	8.0	4.2	0.0
-52.5°	28.6	21.7	15.7	10.6	7.7	4.0	0.0
-55°	26.2	19.9	14.3	10.1	7.3	3.8	0.0
-57.5°	23.7	18.1	12.9	9.6	7.0	3.5	0.0
-60°	21.1	16.3	11.5	9.0	6.6	3.3	0.0
-62.5°	18.9	14.4	10.7	8.5	6.1	3.0	0.0
-65°	16.6	12.5	9.9	7.9	5.6	2.8	0.0
-67.5°	14.2	11.0	9.2	7.3	5.0	2.5	0.0
-70°	11.8	10.0	8.4	6.7	4.5	2.3	0.0
-72.5°	10.4	9.0	7.6	5.9	4.0	2.0	0.0
-75°	9.2	8.0	6.7	5.1	3.4	1.7	0.0
-77.5°	8.0	7.0	5.7	4.3	2.9	1.4	0.0
-80°	6.7	5.7	4.6	3.4	2.3	1.1	0.0
-82.5°	5.1	4.3	3.4	2.6	1.7	0.9	0.0
-85°	3.4	2.9	2.3	1.7	1.1	0.6	0.0
-87.5°	1.7	1.4	1.1	0.9	0.6	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

