

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: P731302 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-57-80-3S-HEG**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731302 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-LS-08-0680N-57-80-3S-HEG  
Description: EPHEBUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 5700K, 80 CRI LEDS AND 3S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

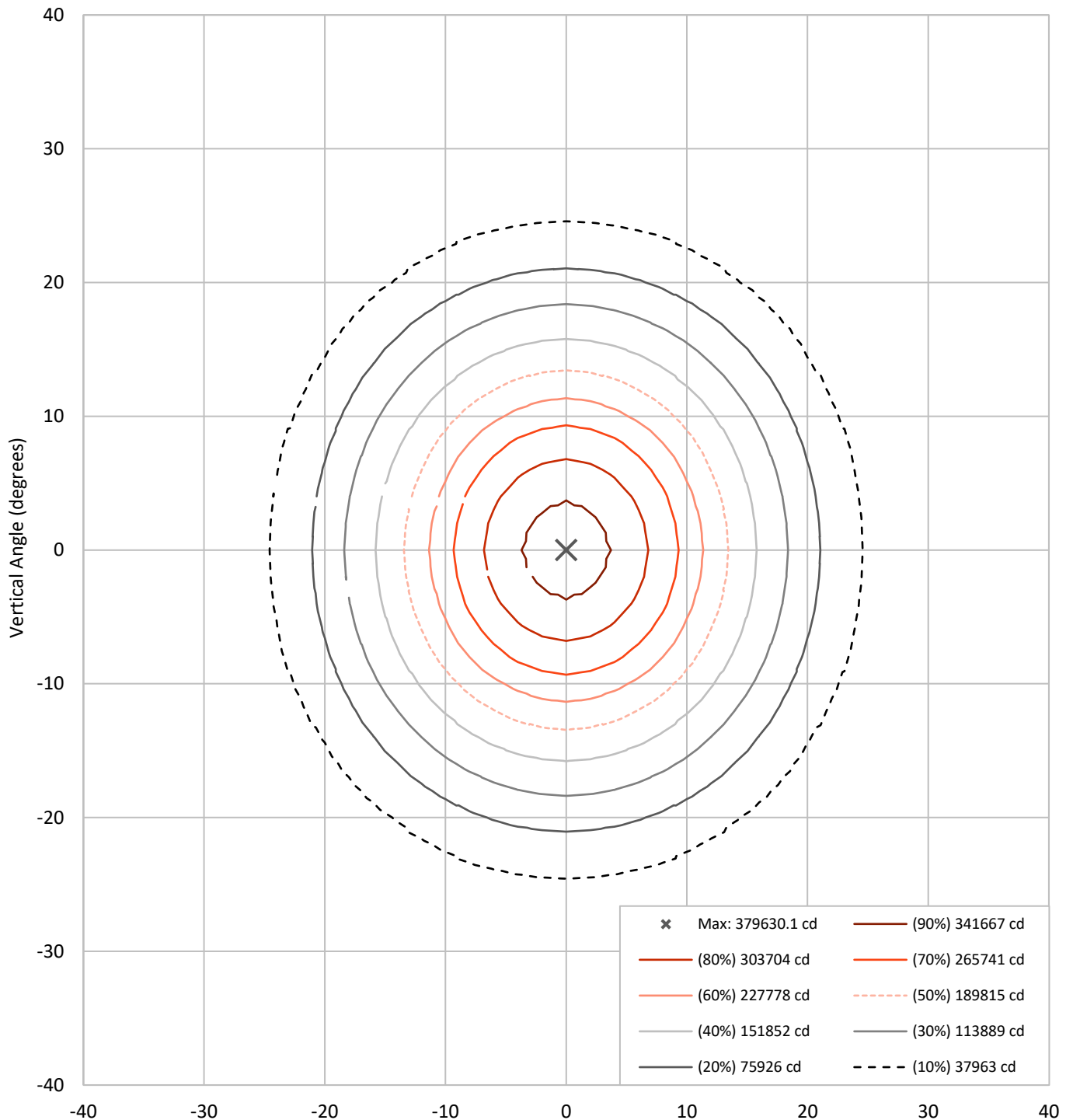
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	102533.1 lumens	Max Intensity:	379630.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	147.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	26.9°H x 26.9°V	Field Angle (10%):	48.9°H x 48.9°V
Beam Lumens:	44456.7 lumens	Field Lumens:	85112.5 lumens
Beam Efficiency:	43.4%	Field Efficiency:	83.0%

Input Watts (W): 697.2  
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





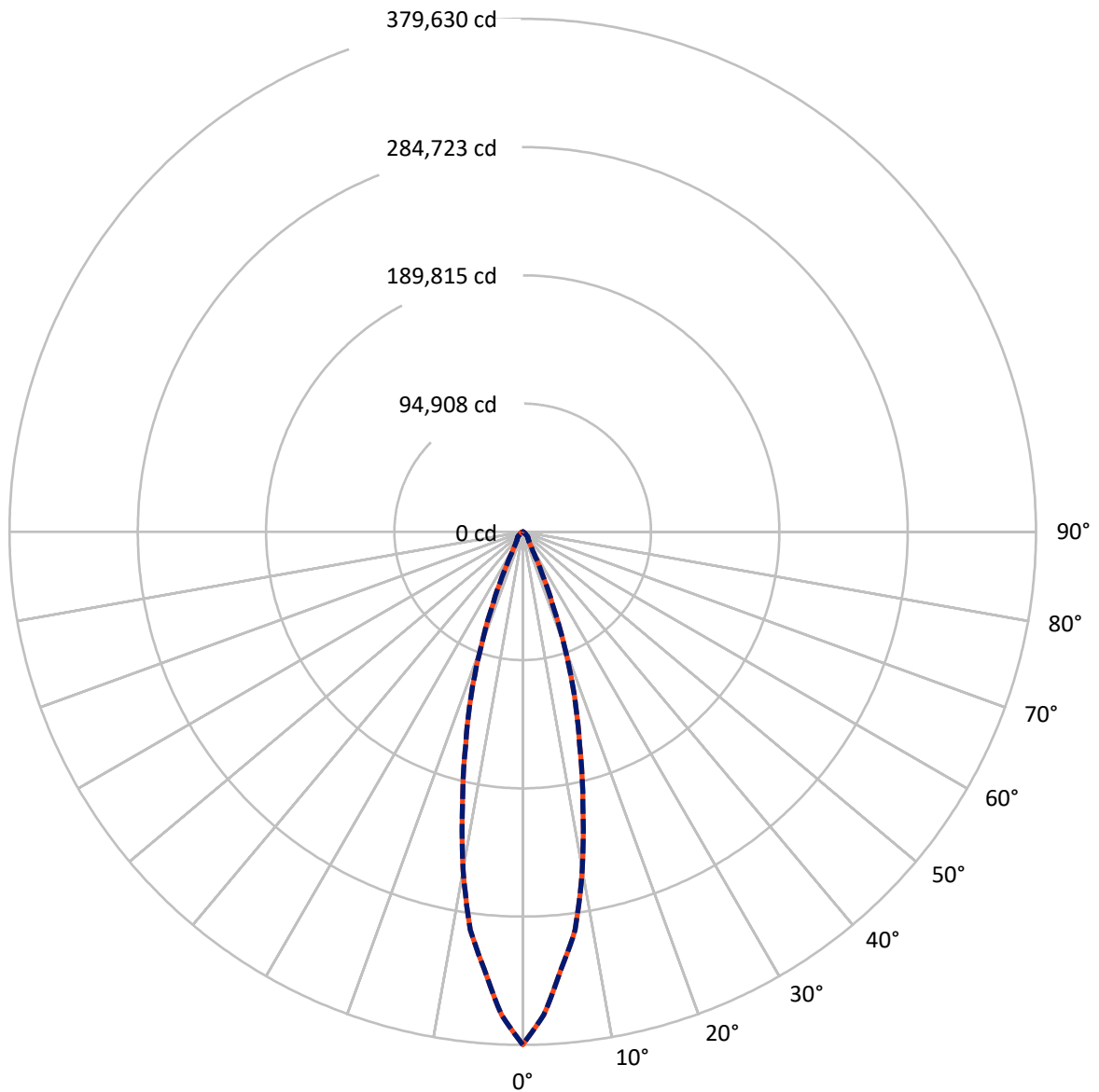
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### Lumen Table

90	0.1		0.9		3.5		9.3		12.3		9.3		3.5		0.9		0.1	
80	0.1		0.9		3.5		9.3		12.3		9.3		3.5		0.9		0.1	
70	0.4	0.5	2.3	6.8	13.4	20.3	26.0	29.2	29.2	26.0	20.3	13.4	6.8	2.3	0.5	0.4	0.4	0.4
60		1.7	7.9	18.7	32.0	45.7	56.7	62.7	62.7	56.7	45.7	32.0	18.7	7.9	1.7			
50	1.2	4.2	15.3	32.5	53.7	84.6	121.0	142.0	142.0	121.0	84.6	53.7	32.5	15.3	4.2	1.2	1.2	1.2
40		7.1	22.7	46.5	94.8	156.1	200.8	235.8	235.8	200.8	156.1	94.8	46.5	22.7	7.1			
30	2.7	9.8	29.3	66.5	141.3	223.7	517.2	1063.9	1063.9	517.2	223.7	141.3	66.5	29.3	9.8	2.7	2.7	2.7
20		11.7	34.1	89.6	170.8	488.3	2262.9	4531.6	4531.6	2262.9	488.3	170.8	89.6	34.1	11.7			
10	3.5	12.8	36.5	101.8	195.0	979.3	4407.6	8692.6	8692.6	4407.6	979.3	195.0	101.8	36.5	12.8	3.5	3.5	3.5
0		12.8	36.5	101.8	195.0	979.3	4407.6	8692.6	8692.6	4407.6	979.3	195.0	101.8	36.5	12.8			
-10	2.7	11.7	34.1	89.6	170.8	488.3	2262.9	4531.6	4531.6	2262.9	488.3	170.8	89.6	34.1	11.7	2.7	2.7	2.7
-20		9.8	29.3	66.5	141.3	223.7	517.2	1063.9	1063.9	517.2	223.7	141.3	66.5	29.3	9.8			
-30	1.2	7.1	22.7	46.5	94.8	156.1	200.8	235.8	235.8	200.8	156.1	94.8	46.5	22.7	7.1	1.2	1.2	1.2
-40		4.2	15.3	32.5	53.7	84.6	121.0	142.0	142.0	121.0	84.6	53.7	32.5	15.3	4.2			
-50	0.4	1.7	7.9	18.7	32.0	45.7	56.7	62.7	62.7	56.7	45.7	32.0	18.7	7.9	1.7	0.4	0.4	0.4
-60		0.5	2.3	6.8	13.4	20.3	26.0	29.2	29.2	26.0	20.3	13.4	6.8	2.3	0.5			
-70	0.1	0.9		3.5		9.3		12.3		9.3		3.5		0.9		0.1	0.1	0.1
-80		0.9		3.5		9.3		12.3		9.3		3.5		0.9				
-90	0.1		0.9		3.5		9.3		12.3		9.3		3.5		0.9		0.1	

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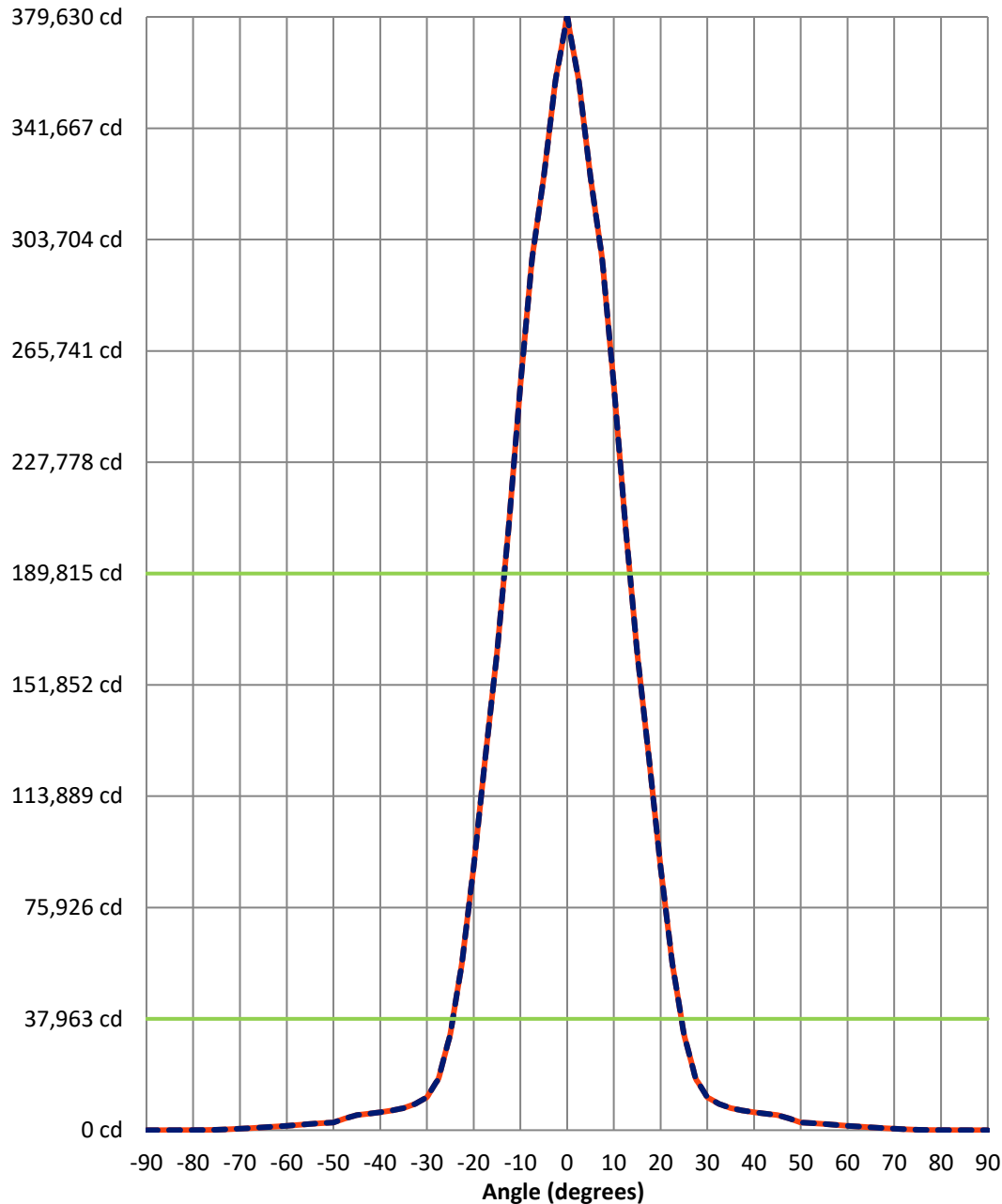
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
H Angle: 26.9°  
V Angle: 26.9°  
Lumens: 44456.7  
Efficiency: 43.4%

**Field:**  
H Angle: 48.9°  
V Angle: 48.9°  
Lumens: 85112.5  
Efficiency: 83.0%

**Spill:**  
Lumens: 17420.6  
Efficiency: 17.0%

— 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	1.2	1.5	1.8	2.1	2.4	2.6	2.9
85°	0.0	0.6	1.2	1.8	2.4	3.0	3.6	4.1	4.7	5.3	5.8
82.5°	0.0	0.9	1.8	2.7	3.6	4.5	5.3	6.2	7.0	7.7	8.3
80°	0.0	1.2	2.4	3.6	4.8	5.9	7.1	7.9	8.8	9.6	10.5
77.5°	0.0	1.5	3.0	4.5	5.9	7.3	8.4	9.5	10.5	11.6	13.0
75°	0.0	1.8	3.6	5.3	7.1	8.4	9.7	11.0	12.4	14.5	16.5
72.5°	0.0	2.1	4.1	6.2	7.9	9.5	11.0	12.7	15.2	17.6	20.0
70°	0.0	2.4	4.7	7.0	8.8	10.5	12.4	15.2	18.0	20.8	24.6
67.5°	0.0	2.6	5.3	7.7	9.6	11.6	14.5	17.6	20.8	25.2	29.4
65°	0.0	2.9	5.8	8.3	10.5	13.0	16.5	20.0	24.6	29.4	35.6
62.5°	0.0	3.2	6.4	8.9	11.3	14.6	18.5	23.0	28.4	34.5	44.9
60°	0.0	3.4	6.9	9.5	12.1	16.3	20.5	26.3	32.1	42.7	54.0
57.5°	0.0	3.7	7.3	10.1	13.3	17.9	23.1	29.4	38.5	50.8	77.6
55°	0.0	4.0	7.7	10.6	14.6	19.4	25.7	32.5	45.5	62.9	107.6
52.5°	0.0	4.2	8.0	11.2	15.8	21.0	28.3	38.1	52.2	89.1	136.8
50°	0.0	4.4	8.4	11.7	16.9	23.1	30.8	43.8	63.5	114.6	189.8
47.5°	0.0	4.7	8.7	12.3	18.1	25.1	33.5	49.4	85.4	139.2	244.0
45°	0.0	4.9	9.0	13.1	19.2	27.0	38.1	54.7	106.5	185.7	296.3
42.5°	0.0	5.1	9.4	13.9	20.2	28.8	42.4	67.2	126.7	230.8	357.9
40°	0.0	5.3	9.7	14.6	21.4	30.6	46.6	84.0	152.2	274.0	418.8
37.5°	0.0	5.5	9.9	15.3	22.7	32.3	50.6	100.1	188.6	318.1	476.7
35°	0.0	5.7	10.2	16.0	24.0	34.8	54.4	115.3	223.1	367.4	531.2
32.5°	0.0	5.8	10.5	16.6	25.2	37.8	60.5	129.6	255.6	413.8	581.9
30°	0.0	6.0	10.7	17.2	26.3	40.5	71.9	146.0	286.0	457.3	629.3
27.5°	0.0	6.1	10.9	17.8	27.3	43.1	82.5	170.6	317.0	497.7	673.5
25°	0.0	6.3	11.1	18.3	28.2	45.5	92.3	193.2	349.9	534.4	714.7
22.5°	0.0	6.4	11.3	18.7	29.1	47.6	101.2	213.9	379.9	567.6	761.9
20°	0.0	6.5	11.5	19.1	29.9	49.5	109.2	232.5	407.0	597.6	804.4
17.5°	0.0	6.6	11.6	19.5	30.5	51.2	116.3	249.0	431.0	624.2	842.2
15°	0.0	6.7	11.7	19.8	31.1	52.7	122.5	263.4	452.0	647.5	875.3
12.5°	0.0	6.7	11.9	20.1	31.6	54.0	127.7	275.7	469.8	667.3	903.4
10°	0.0	6.8	11.9	20.3	32.1	55.0	132.1	285.7	484.5	683.5	926.5
7.5°	0.0	6.8	12.0	20.5	32.4	55.9	135.4	293.6	495.9	696.2	944.6
5°	0.0	6.9	12.1	20.6	32.6	56.4	137.9	299.2	504.1	705.3	957.5
2.5°	0.0	6.9	12.1	20.7	32.8	56.8	139.3	302.6	509.1	710.8	965.3
0°	0.0	6.9	12.1	20.7	32.8	56.9	139.8	303.7	510.7	712.6	967.9
-2.5°	0.0	6.9	12.1	20.7	32.8	56.8	139.3	302.6	509.1	710.8	965.3
-5°	0.0	6.9	12.1	20.6	32.6	56.4	137.9	299.2	504.1	705.3	957.5
-7.5°	0.0	6.8	12.0	20.5	32.4	55.9	135.4	293.6	495.9	696.2	944.6
-10°	0.0	6.8	11.9	20.3	32.1	55.0	132.1	285.7	484.5	683.5	926.5
-12.5°	0.0	6.7	11.9	20.1	31.6	54.0	127.7	275.7	469.8	667.3	903.4
-15°	0.0	6.7	11.7	19.8	31.1	52.7	122.5	263.4	452.0	647.5	875.3
-17.5°	0.0	6.6	11.6	19.5	30.5	51.2	116.3	249.0	431.0	624.2	842.2
-20°	0.0	6.5	11.5	19.1	29.9	49.5	109.2	232.5	407.0	597.6	804.4



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 CATALOG NUMBER: EPH-LS-08-0680N-57-80-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	6.4	11.3	18.7	29.1	47.6	101.2	213.9	379.9	567.6	761.9
-25°	0.0	6.3	11.1	18.3	28.2	45.5	92.3	193.2	349.9	534.4	714.7
-27.5°	0.0	6.1	10.9	17.8	27.3	43.1	82.5	170.6	317.0	497.7	673.5
-30°	0.0	6.0	10.7	17.2	26.3	40.5	71.9	146.0	286.0	457.3	629.3
-32.5°	0.0	5.8	10.5	16.6	25.2	37.8	60.5	129.6	255.6	413.8	581.9
-35°	0.0	5.7	10.2	16.0	24.0	34.8	54.4	115.3	223.1	367.4	531.2
-37.5°	0.0	5.5	9.9	15.3	22.7	32.3	50.6	100.1	188.6	318.1	476.7
-40°	0.0	5.3	9.7	14.6	21.4	30.6	46.6	84.0	152.2	274.0	418.8
-42.5°	0.0	5.1	9.4	13.9	20.2	28.8	42.4	67.2	126.7	230.8	357.9
-45°	0.0	4.9	9.0	13.1	19.2	27.0	38.1	54.7	106.5	185.7	296.3
-47.5°	0.0	4.7	8.7	12.3	18.1	25.1	33.5	49.4	85.4	139.2	244.0
-50°	0.0	4.4	8.4	11.7	16.9	23.1	30.8	43.8	63.5	114.6	189.8
-52.5°	0.0	4.2	8.0	11.2	15.8	21.0	28.3	38.1	52.2	89.1	136.8
-55°	0.0	4.0	7.7	10.6	14.6	19.4	25.7	32.5	45.5	62.9	107.6
-57.5°	0.0	3.7	7.3	10.1	13.3	17.9	23.1	29.4	38.5	50.8	77.6
-60°	0.0	3.4	6.9	9.5	12.1	16.3	20.5	26.3	32.1	42.7	54.0
-62.5°	0.0	3.2	6.4	8.9	11.3	14.6	18.5	23.0	28.4	34.5	44.9
-65°	0.0	2.9	5.8	8.3	10.5	13.0	16.5	20.0	24.6	29.4	35.6
-67.5°	0.0	2.6	5.3	7.7	9.6	11.6	14.5	17.6	20.8	25.2	29.4
-70°	0.0	2.4	4.7	7.0	8.8	10.5	12.4	15.2	18.0	20.8	24.6
-72.5°	0.0	2.1	4.1	6.2	7.9	9.5	11.0	12.7	15.2	17.6	20.0
-75°	0.0	1.8	3.6	5.3	7.1	8.4	9.7	11.0	12.4	14.5	16.5
-77.5°	0.0	1.5	3.0	4.5	5.9	7.3	8.4	9.5	10.5	11.6	13.0
-80°	0.0	1.2	2.4	3.6	4.8	5.9	7.1	7.9	8.8	9.6	10.5
-82.5°	0.0	0.9	1.8	2.7	3.6	4.5	5.3	6.2	7.0	7.7	8.3
-85°	0.0	0.6	1.2	1.8	2.4	3.0	3.6	4.1	4.7	5.3	5.8
-87.5°	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.6	2.9
-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-57-80-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	3.4	3.7	4.0	4.2	4.4	4.7	4.9	5.1	5.3	5.5
85°	6.4	6.9	7.3	7.7	8.0	8.4	8.7	9.0	9.4	9.7	9.9
82.5°	8.9	9.5	10.1	10.6	11.2	11.7	12.3	13.1	13.9	14.6	15.3
80°	11.3	12.1	13.3	14.6	15.8	16.9	18.1	19.2	20.2	21.4	22.7
77.5°	14.6	16.3	17.9	19.4	21.0	23.1	25.1	27.0	28.8	30.6	32.3
75°	18.5	20.5	23.1	25.7	28.3	30.8	33.5	38.1	42.4	46.6	50.6
72.5°	23.0	26.3	29.4	32.5	38.1	43.8	49.4	54.7	67.2	84.0	100.1
70°	28.4	32.1	38.5	45.5	52.2	63.5	85.4	106.5	126.7	152.2	188.6
67.5°	34.5	42.7	50.8	62.9	89.1	114.6	139.2	185.7	230.8	274.0	318.1
65°	44.9	54.0	77.6	107.6	136.8	189.8	244.0	296.3	357.9	418.8	476.7
62.5°	55.1	85.0	118.7	163.3	226.7	288.4	359.8	432.6	502.7	568.4	631.0
60°	85.0	122.5	178.1	249.0	322.0	407.0	489.4	567.6	642.5	714.7	801.5
57.5°	118.7	178.1	256.5	340.9	435.5	527.2	614.4	698.8	798.1	896.9	992.0
55°	163.3	249.0	340.9	445.1	546.0	642.7	743.2	858.4	969.7	1078.8	1183.4
52.5°	226.7	322.0	435.5	546.0	652.2	767.3	894.9	1019.7	1141.7	1258.5	1368.3
50°	288.4	407.0	527.2	642.7	767.3	907.1	1044.8	1179.8	1308.4	1431.1	1565.0
47.5°	359.8	489.4	614.4	743.2	894.9	1044.8	1192.6	1333.5	1469.2	1628.6	1784.8
45°	432.6	567.6	698.8	858.4	1019.7	1179.8	1333.5	1482.0	1660.6	1835.1	2009.0
42.5°	502.7	642.5	798.1	969.7	1141.7	1308.4	1469.2	1660.6	1852.1	2043.6	2210.9
40°	568.4	714.7	896.9	1078.8	1258.5	1431.1	1628.6	1835.1	2043.6	2225.5	2388.5
37.5°	631.0	801.5	992.0	1183.4	1368.3	1565.0	1784.8	2009.0	2210.9	2388.5	2532.7
35°	690.4	884.0	1083.8	1281.6	1473.1	1704.6	1940.5	2167.1	2358.6	2520.0	2917.1
32.5°	755.4	961.9	1170.7	1373.5	1594.1	1839.0	2089.2	2299.5	2482.3	2758.8	3728.5
30°	822.0	1036.6	1251.8	1460.1	1710.2	1969.9	2212.1	2420.1	2593.6	3486.4	4415.9
27.5°	884.0	1106.3	1326.1	1555.1	1819.9	2092.6	2322.0	2518.1	3088.4	4144.8	5021.5
25°	941.3	1170.7	1394.9	1648.0	1925.3	2192.7	2419.6	2609.5	3689.8	4676.4	5328.7
22.5°	994.2	1229.7	1457.9	1733.2	2022.1	2280.0	2497.8	3059.5	4204.2	5156.1	5546.0
20°	1042.4	1281.6	1522.8	1811.0	2109.9	2359.3	2569.0	3530.8	4623.5	5341.5	5753.9
17.5°	1085.4	1327.9	1585.7	1883.0	2177.5	2424.5	2686.1	3954.2	5000.9	5508.7	5945.7
15°	1123.0	1368.3	1640.8	1946.1	2234.7	2476.1	3029.7	4270.6	5223.4	5659.2	6117.0
12.5°	1155.0	1402.8	1687.8	1999.9	2283.6	2520.3	3324.1	4534.2	5340.8	5794.6	6297.2
10°	1181.3	1431.1	1726.6	2044.3	2324.0	2556.8	3567.5	4752.5	5438.1	5907.0	6447.2
7.5°	1201.8	1453.3	1756.8	2079.0	2355.6	2585.4	3758.5	4923.9	5514.6	5995.6	6565.6
5°	1216.6	1469.2	1778.6	2103.9	2378.3	2606.0	3895.8	5047.3	5569.8	6059.5	6651.1
2.5°	1225.4	1478.8	1791.6	2118.9	2391.9	2618.4	3978.6	5121.7	5603.1	6098.1	6702.8
0°	1228.4	1482.0	1796.0	2123.9	2396.5	2622.5	4006.2	5146.6	5614.2	6111.0	6720.1
-2.5°	1225.4	1478.8	1791.6	2118.9	2391.9	2618.4	3978.6	5121.7	5603.1	6098.1	6702.8
-5°	1216.6	1469.2	1778.6	2103.9	2378.3	2606.0	3895.8	5047.3	5569.8	6059.5	6651.1
-7.5°	1201.8	1453.3	1756.8	2079.0	2355.6	2585.4	3758.5	4923.9	5514.6	5995.6	6565.6
-10°	1181.3	1431.1	1726.6	2044.3	2324.0	2556.8	3567.5	4752.5	5438.1	5907.0	6447.2
-12.5°	1155.0	1402.8	1687.8	1999.9	2283.6	2520.3	3324.1	4534.2	5340.8	5794.6	6297.2
-15°	1123.0	1368.3	1640.8	1946.1	2234.7	2476.1	3029.7	4270.6	5223.4	5659.2	6117.0
-17.5°	1085.4	1327.9	1585.7	1883.0	2177.5	2424.5	2686.1	3954.2	5000.9	5508.7	5945.7
-20°	1042.4	1281.6	1522.8	1811.0	2109.9	2359.3	2569.0	3530.8	4623.5	5341.5	5753.9



REPORT NUMBER: P731302 (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°	994.2	1229.7	1457.9	1733.2	2022.1	2280.0	2497.8	3059.5	4204.2	5156.1	5546.0
-25°	941.3	1170.7	1394.9	1648.0	1925.3	2192.7	2419.6	2609.5	3689.8	4676.4	5328.7
-27.5°	884.0	1106.3	1326.1	1555.1	1819.9	2092.6	2322.0	2518.1	3088.4	4144.8	5021.5
-30°	822.0	1036.6	1251.8	1460.1	1710.2	1969.9	2212.1	2420.1	2593.6	3486.4	4415.9
-32.5°	755.4	961.9	1170.7	1373.5	1594.1	1839.0	2089.2	2299.5	2482.3	2758.8	3728.5
-35°	690.4	884.0	1083.8	1281.6	1473.1	1704.6	1940.5	2167.1	2358.6	2520.0	2917.1
-37.5°	631.0	801.5	992.0	1183.4	1368.3	1565.0	1784.8	2009.0	2210.9	2388.5	2532.7
-40°	568.4	714.7	896.9	1078.8	1258.5	1431.1	1628.6	1835.1	2043.6	2225.5	2388.5
-42.5°	502.7	642.5	798.1	969.7	1141.7	1308.4	1469.2	1660.6	1852.1	2043.6	2210.9
-45°	432.6	567.6	698.8	858.4	1019.7	1179.8	1333.5	1482.0	1660.6	1835.1	2009.0
-47.5°	359.8	489.4	614.4	743.2	894.9	1044.8	1192.6	1333.5	1469.2	1628.6	1784.8
-50°	288.4	407.0	527.2	642.7	767.3	907.1	1044.8	1179.8	1308.4	1431.1	1565.0
-52.5°	226.7	322.0	435.5	546.0	652.2	767.3	894.9	1019.7	1141.7	1258.5	1368.3
-55°	163.3	249.0	340.9	445.1	546.0	642.7	743.2	858.4	969.7	1078.8	1183.4
-57.5°	118.7	178.1	256.5	340.9	435.5	527.2	614.4	698.8	798.1	896.9	992.0
-60°	85.0	122.5	178.1	249.0	322.0	407.0	489.4	567.6	642.5	714.7	801.5
-62.5°	55.1	85.0	118.7	163.3	226.7	288.4	359.8	432.6	502.7	568.4	631.0
-65°	44.9	54.0	77.6	107.6	136.8	189.8	244.0	296.3	357.9	418.8	476.7
-67.5°	34.5	42.7	50.8	62.9	89.1	114.6	139.2	185.7	230.8	274.0	318.1
-70°	28.4	32.1	38.5	45.5	52.2	63.5	85.4	106.5	126.7	152.2	188.6
-72.5°	23.0	26.3	29.4	32.5	38.1	43.8	49.4	54.7	67.2	84.0	100.1
-75°	18.5	20.5	23.1	25.7	28.3	30.8	33.5	38.1	42.4	46.6	50.6
-77.5°	14.6	16.3	17.9	19.4	21.0	23.1	25.1	27.0	28.8	30.6	32.3
-80°	11.3	12.1	13.3	14.6	15.8	16.9	18.1	19.2	20.2	21.4	22.7
-82.5°	8.9	9.5	10.1	10.6	11.2	11.7	12.3	13.1	13.9	14.6	15.3
-85°	6.4	6.9	7.3	7.7	8.0	8.4	8.7	9.0	9.4	9.7	9.9
-87.5°	3.2	3.4	3.7	4.0	4.2	4.4	4.7	4.9	5.1	5.3	5.5
-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: P731302 (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°	5.7	5.8	6.0	6.1	6.3	6.4	6.5	6.6	6.7	6.7	6.8
85°	10.2	10.5	10.7	10.9	11.1	11.3	11.5	11.6	11.7	11.9	11.9
82.5°	16.0	16.6	17.2	17.8	18.3	18.7	19.1	19.5	19.8	20.1	20.3
80°	24.0	25.2	26.3	27.3	28.2	29.1	29.9	30.5	31.1	31.6	32.1
77.5°	34.8	37.8	40.5	43.1	45.5	47.6	49.5	51.2	52.7	54.0	55.0
75°	54.4	60.5	71.9	82.5	92.3	101.2	109.2	116.3	122.5	127.7	132.1
72.5°	115.3	129.6	146.0	170.6	193.2	213.9	232.5	249.0	263.4	275.7	285.7
70°	223.1	255.6	286.0	317.0	349.9	379.9	407.0	431.0	452.0	469.8	484.5
67.5°	367.4	413.8	457.3	497.7	534.4	567.6	597.6	624.2	647.5	667.3	683.5
65°	531.2	581.9	629.3	673.5	714.7	761.9	804.4	842.2	875.3	903.4	926.5
62.5°	690.4	755.4	822.0	884.0	941.3	994.2	1042.4	1085.4	1123.0	1155.0	1181.3
60°	884.0	961.9	1036.6	1106.3	1170.7	1229.7	1281.6	1327.9	1368.3	1402.8	1431.1
57.5°	1083.8	1170.7	1251.8	1326.1	1394.9	1457.9	1522.8	1585.7	1640.8	1687.8	1726.6
55°	1281.6	1373.5	1460.1	1555.1	1648.0	1733.2	1811.0	1883.0	1946.1	1999.9	2044.3
52.5°	1473.1	1594.1	1710.2	1819.9	1925.3	2022.1	2109.9	2177.5	2234.7	2283.6	2324.0
50°	1704.6	1839.0	1969.9	2092.6	2192.7	2280.0	2359.3	2424.5	2476.1	2520.3	2556.8
47.5°	1940.5	2089.2	2212.1	2322.0	2419.6	2497.8	2569.0	2686.1	3029.7	3324.1	3567.5
45°	2167.1	2299.5	2420.1	2518.1	2609.5	3059.5	3530.8	3954.2	4270.6	4534.2	4752.5
42.5°	2358.6	2482.3	2593.6	3088.4	3689.8	4204.2	4623.5	5000.9	5223.4	5340.8	5438.1
40°	2520.0	2758.8	3486.4	4144.8	4676.4	5156.1	5341.5	5508.7	5659.2	5794.6	5907.0
37.5°	2917.1	3728.5	4415.9	5021.5	5328.7	5546.0	5753.9	5945.7	6117.0	6297.2	6447.2
35°	3809.8	4553.0	5181.5	5446.2	5701.0	5948.6	6191.8	6445.8	6671.8	6915.8	7132.9
32.5°	4553.0	5210.5	5505.7	5798.2	6081.4	6400.1	6701.2	7059.3	7384.6	7775.3	8197.4
30°	5181.5	5505.7	5830.9	6157.3	6527.6	6927.2	7357.2	7924.0	8552.8	9174.6	9895.5
27.5°	5446.2	5798.2	6157.3	6570.6	7045.2	7548.8	8372.6	9219.1	10285.4	11220.7	13469.8
25°	5701.0	6081.4	6527.6	7045.2	7658.8	8601.3	9775.3	11053.5	14044.7	16965.2	21843.7
22.5°	5948.6	6400.1	6927.2	7548.8	8601.3	9963.3	11857.7	15801.0	21736.6	29230.4	37423.1
20°	6191.8	6701.2	7357.2	8372.6	9775.3	11857.7	16396.7	24670.8	34531.8	47783.6	60016.6
17.5°	6445.8	7059.3	7924.0	9219.1	11053.5	15801.0	24670.8	37064.7	53154.9	71509.3	88720.4
15°	6671.8	7384.6	8552.8	10285.4	14044.7	21736.6	34531.8	53154.9	75451.2	98205.1	120158.0
12.5°	6915.8	7775.3	9174.6	11220.7	16965.2	29230.4	47783.6	71509.3	98205.1	125489.9	149113.2
10°	7132.9	8197.4	9895.5	13469.8	21843.7	37423.1	60016.6	88720.4	120158.0	149113.2	177294.6
7.5°	7304.6	8532.2	10469.2	15273.4	26512.7	45776.5	72629.6	104781.4	138058.2	170148.9	206182.2
5°	7428.8	8775.1	10886.4	16589.6	29935.1	51934.9	82000.3	116947.5	151465.5	188874.3	230090.2
2.5°	7504.0	8922.3	11139.9	17391.1	32025.7	55713.1	87782.7	124516.3	159907.2	201440.2	247638.1
0°	7529.2	8971.6	11224.9	17660.3	32729.1	56987.0	89738.5	127088.0	162795.0	205774.2	253953.4
-2.5°	7504.0	8922.3	11139.9	17391.1	32025.7	55713.1	87782.7	124516.3	159907.2	201440.2	247638.1
-5°	7428.8	8775.1	10886.4	16589.6	29935.1	51934.9	82000.3	116947.5	151465.5	188874.3	230090.2
-7.5°	7304.6	8532.2	10469.2	15273.4	26512.7	45776.5	72629.6	104781.4	138058.2	170148.9	206182.2
-10°	7132.9	8197.4	9895.5	13469.8	21843.7	37423.1	60016.6	88720.4	120158.0	149113.2	177294.6
-12.5°	6915.8	7775.3	9174.6	11220.7	16965.2	29230.4	47783.6	71509.3	98205.1	125489.9	149113.2
-15°	6671.8	7384.6	8552.8	10285.4	14044.7	21736.6	34531.8	53154.9	75451.2	98205.1	120158.0
-17.5°	6445.8	7059.3	7924.0	9219.1	11053.5	15801.0	24670.8	37064.7	53154.9	71509.3	88720.4
-20°	6191.8	6701.2	7357.2	8372.6	9775.3	11857.7	16396.7	24670.8	34531.8	47783.6	60016.6



REPORT NUMBER: P731302 (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°
-22.5°	5948.6	6400.1	6927.2	7548.8	8601.3	9963.3	11857.7	15801.0	21736.6	29230.4	37423.1
-25°	5701.0	6081.4	6527.6	7045.2	7658.8	8601.3	9775.3	11053.5	14044.7	16965.2	21843.7
-27.5°	5446.2	5798.2	6157.3	6570.6	7045.2	7548.8	8372.6	9219.1	10285.4	11220.7	13469.8
-30°	5181.5	5505.7	5830.9	6157.3	6527.6	6927.2	7357.2	7924.0	8552.8	9174.6	9895.5
-32.5°	4553.0	5210.5	5505.7	5798.2	6081.4	6400.1	6701.2	7059.3	7384.6	7775.3	8197.4
-35°	3809.8	4553.0	5181.5	5446.2	5701.0	5948.6	6191.8	6445.8	6671.8	6915.8	7132.9
-37.5°	2917.1	3728.5	4415.9	5021.5	5328.7	5546.0	5753.9	5945.7	6117.0	6297.2	6447.2
-40°	2520.0	2758.8	3486.4	4144.8	4676.4	5156.1	5341.5	5508.7	5659.2	5794.6	5907.0
-42.5°	2358.6	2482.3	2593.6	3088.4	3689.8	4204.2	4623.5	5000.9	5223.4	5340.8	5438.1
-45°	2167.1	2299.5	2420.1	2518.1	2609.5	3059.5	3530.8	3954.2	4270.6	4534.2	4752.5
-47.5°	1940.5	2089.2	2212.1	2322.0	2419.6	2497.8	2569.0	2686.1	3029.7	3324.1	3567.5
-50°	1704.6	1839.0	1969.9	2092.6	2192.7	2280.0	2359.3	2424.5	2476.1	2520.3	2556.8
-52.5°	1473.1	1594.1	1710.2	1819.9	1925.3	2022.1	2109.9	2177.5	2234.7	2283.6	2324.0
-55°	1281.6	1373.5	1460.1	1555.1	1648.0	1733.2	1811.0	1883.0	1946.1	1999.9	2044.3
-57.5°	1083.8	1170.7	1251.8	1326.1	1394.9	1457.9	1522.8	1585.7	1640.8	1687.8	1726.6
-60°	884.0	961.9	1036.6	1106.3	1170.7	1229.7	1281.6	1327.9	1368.3	1402.8	1431.1
-62.5°	690.4	755.4	822.0	884.0	941.3	994.2	1042.4	1085.4	1123.0	1155.0	1181.3
-65°	531.2	581.9	629.3	673.5	714.7	761.9	804.4	842.2	875.3	903.4	926.5
-67.5°	367.4	413.8	457.3	497.7	534.4	567.6	597.6	624.2	647.5	667.3	683.5
-70°	223.1	255.6	286.0	317.0	349.9	379.9	407.0	431.0	452.0	469.8	484.5
-72.5°	115.3	129.6	146.0	170.6	193.2	213.9	232.5	249.0	263.4	275.7	285.7
-75°	54.4	60.5	71.9	82.5	92.3	101.2	109.2	116.3	122.5	127.7	132.1
-77.5°	34.8	37.8	40.5	43.1	45.5	47.6	49.5	51.2	52.7	54.0	55.0
-80°	24.0	25.2	26.3	27.3	28.2	29.1	29.9	30.5	31.1	31.6	32.1
-82.5°	16.0	16.6	17.2	17.8	18.3	18.7	19.1	19.5	19.8	20.1	20.3
-85°	10.2	10.5	10.7	10.9	11.1	11.3	11.5	11.6	11.7	11.9	11.9
-87.5°	5.7	5.8	6.0	6.1	6.3	6.4	6.5	6.6	6.7	6.7	6.8
-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: P731302 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-57-80-3S-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°	6.8	6.9	6.9	6.9	6.9	6.9	6.8	6.8	6.7	6.7	6.6
85°	12.0	12.1	12.1	12.1	12.1	12.1	12.0	11.9	11.9	11.7	11.6
82.5°	20.5	20.6	20.7	20.7	20.7	20.6	20.5	20.3	20.1	19.8	19.5
80°	32.4	32.6	32.8	32.8	32.8	32.6	32.4	32.1	31.6	31.1	30.5
77.5°	55.9	56.4	56.8	56.9	56.8	56.4	55.9	55.0	54.0	52.7	51.2
75°	135.4	137.9	139.3	139.8	139.3	137.9	135.4	132.1	127.7	122.5	116.3
72.5°	293.6	299.2	302.6	303.7	302.6	299.2	293.6	285.7	275.7	263.4	249.0
70°	495.9	504.1	509.1	510.7	509.1	504.1	495.9	484.5	469.8	452.0	431.0
67.5°	696.2	705.3	710.8	712.6	710.8	705.3	696.2	683.5	667.3	647.5	624.2
65°	944.6	957.5	965.3	967.9	965.3	957.5	944.6	926.5	903.4	875.3	842.2
62.5°	1201.8	1216.6	1225.4	1228.4	1225.4	1216.6	1201.8	1181.3	1155.0	1123.0	1085.4
60°	1453.3	1469.2	1478.8	1482.0	1478.8	1469.2	1453.3	1431.1	1402.8	1368.3	1327.9
57.5°	1756.8	1778.6	1791.6	1796.0	1791.6	1778.6	1756.8	1726.6	1687.8	1640.8	1585.7
55°	2079.0	2103.9	2118.9	2123.9	2118.9	2103.9	2079.0	2044.3	1999.9	1946.1	1883.0
52.5°	2355.6	2378.3	2391.9	2396.5	2391.9	2378.3	2355.6	2324.0	2283.6	2234.7	2177.5
50°	2585.4	2606.0	2618.4	2622.5	2618.4	2606.0	2585.4	2556.8	2520.3	2476.1	2424.5
47.5°	3758.5	3895.8	3978.6	4006.2	3978.6	3895.8	3758.5	3567.5	3324.1	3029.7	2686.1
45°	4923.9	5047.3	5121.7	5146.6	5121.7	5047.3	4923.9	4752.5	4534.2	4270.6	3954.2
42.5°	5514.6	5569.8	5603.1	5614.2	5603.1	5569.8	5514.6	5438.1	5340.8	5223.4	5000.9
40°	5995.6	6059.5	6098.1	6111.0	6098.1	6059.5	5995.6	5907.0	5794.6	5659.2	5508.7
37.5°	6565.6	6651.1	6702.8	6720.1	6702.8	6651.1	6565.6	6447.2	6297.2	6117.0	5945.7
35°	7304.6	7428.8	7504.0	7529.2	7504.0	7428.8	7304.6	7132.9	6915.8	6671.8	6445.8
32.5°	8532.2	8775.1	8922.3	8971.6	8922.3	8775.1	8532.2	8197.4	7775.3	7384.6	7059.3
30°	10469.2	10886.4	11139.9	11224.9	11139.9	10886.4	10469.2	9895.5	9174.6	8552.8	7924.0
27.5°	15273.4	16589.6	17391.1	17660.3	17391.1	16589.6	15273.4	13469.8	11220.7	10285.4	9219.1
25°	26512.7	29935.1	32025.7	32729.1	32025.7	29935.1	26512.7	21843.7	16965.2	14044.7	11053.5
22.5°	45776.5	51934.9	55713.1	56987.0	55713.1	51934.9	45776.5	37423.1	29230.4	21736.6	15801.0
20°	72629.6	82000.3	87782.7	89738.5	87782.7	82000.3	72629.6	60016.6	47783.6	34531.8	24670.8
17.5°	104781.4	116947.5	124516.3	127088.0	124516.3	116947.5	104781.4	88720.4	71509.3	53154.9	37064.7
15°	138058.2	151465.5	159907.2	162795.0	159907.2	151465.5	138058.2	120158.0	98205.1	75451.2	53154.9
12.5°	170148.9	188874.3	201440.2	205774.2	201440.2	188874.3	170148.9	149113.2	125489.9	98205.1	71509.3
10°	206182.2	230090.2	247638.1	253953.4	247638.1	230090.2	206182.2	177294.6	149113.2	120158.0	88720.4
7.5°	241694.7	273969.9	291822.8	297123.2	291822.8	273969.9	241694.7	206182.2	170148.9	138058.2	104781.4
5°	273969.9	302817.6	319330.3	325043.0	319330.3	302817.6	273969.9	230090.2	188874.3	151465.5	116947.5
2.5°	291822.8	319330.3	342251.4	357804.9	342251.4	319330.3	291822.8	247638.1	201440.2	159907.2	124516.3
0°	297123.2	325043.0	357804.9	379630.1	357804.9	325043.0	297123.2	253953.4	205774.2	162795.0	127088.0
-2.5°	291822.8	319330.3	342251.4	357804.9	342251.4	319330.3	291822.8	247638.1	201440.2	159907.2	124516.3
-5°	273969.9	302817.6	319330.3	325043.0	319330.3	302817.6	273969.9	230090.2	188874.3	151465.5	116947.5
-7.5°	241694.7	273969.9	291822.8	297123.2	291822.8	273969.9	241694.7	206182.2	170148.9	138058.2	104781.4
-10°	206182.2	230090.2	247638.1	253953.4	247638.1	230090.2	206182.2	177294.6	149113.2	120158.0	88720.4
-12.5°	170148.9	188874.3	201440.2	205774.2	201440.2	188874.3	170148.9	149113.2	125489.9	98205.1	71509.3
-15°	138058.2	151465.5	159907.2	162795.0	159907.2	151465.5	138058.2	120158.0	98205.1	75451.2	53154.9
-17.5°	104781.4	116947.5	124516.3	127088.0	124516.3	116947.5	104781.4	88720.4	71509.3	53154.9	37064.7
-20°	72629.6	82000.3	87782.7	89738.5	87782.7	82000.3	72629.6	60016.6	47783.6	34531.8	24670.8



REPORT NUMBER: P731302 (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°	45776.5	51934.9	55713.1	56987.0	55713.1	51934.9	45776.5	37423.1	29230.4	21736.6	15801.0
-25°	26512.7	29935.1	32025.7	32729.1	32025.7	29935.1	26512.7	21843.7	16965.2	14044.7	11053.5
-27.5°	15273.4	16589.6	17391.1	17660.3	17391.1	16589.6	15273.4	13469.8	11220.7	10285.4	9219.1
-30°	10469.2	10886.4	11139.9	11224.9	11139.9	10886.4	10469.2	9895.5	9174.6	8552.8	7924.0
-32.5°	8532.2	8775.1	8922.3	8971.6	8922.3	8775.1	8532.2	8197.4	7775.3	7384.6	7059.3
-35°	7304.6	7428.8	7504.0	7529.2	7504.0	7428.8	7304.6	7132.9	6915.8	6671.8	6445.8
-37.5°	6565.6	6651.1	6702.8	6720.1	6702.8	6651.1	6565.6	6447.2	6297.2	6117.0	5945.7
-40°	5995.6	6059.5	6098.1	6111.0	6098.1	6059.5	5995.6	5907.0	5794.6	5659.2	5508.7
-42.5°	5514.6	5569.8	5603.1	5614.2	5603.1	5569.8	5514.6	5438.1	5340.8	5223.4	5000.9
-45°	4923.9	5047.3	5121.7	5146.6	5121.7	5047.3	4923.9	4752.5	4534.2	4270.6	3954.2
-47.5°	3758.5	3895.8	3978.6	4006.2	3978.6	3895.8	3758.5	3567.5	3324.1	3029.7	2686.1
-50°	2585.4	2606.0	2618.4	2622.5	2618.4	2606.0	2585.4	2556.8	2520.3	2476.1	2424.5
-52.5°	2355.6	2378.3	2391.9	2396.5	2391.9	2378.3	2355.6	2324.0	2283.6	2234.7	2177.5
-55°	2079.0	2103.9	2118.9	2123.9	2118.9	2103.9	2079.0	2044.3	1999.9	1946.1	1883.0
-57.5°	1756.8	1778.6	1791.6	1796.0	1791.6	1778.6	1756.8	1726.6	1687.8	1640.8	1585.7
-60°	1453.3	1469.2	1478.8	1482.0	1478.8	1469.2	1453.3	1431.1	1402.8	1368.3	1327.9
-62.5°	1201.8	1216.6	1225.4	1228.4	1225.4	1216.6	1201.8	1181.3	1155.0	1123.0	1085.4
-65°	944.6	957.5	965.3	967.9	965.3	957.5	944.6	926.5	903.4	875.3	842.2
-67.5°	696.2	705.3	710.8	712.6	710.8	705.3	696.2	683.5	667.3	647.5	624.2
-70°	495.9	504.1	509.1	510.7	509.1	504.1	495.9	484.5	469.8	452.0	431.0
-72.5°	293.6	299.2	302.6	303.7	302.6	299.2	293.6	285.7	275.7	263.4	249.0
-75°	135.4	137.9	139.3	139.8	139.3	137.9	135.4	132.1	127.7	122.5	116.3
-77.5°	55.9	56.4	56.8	56.9	56.8	56.4	55.9	55.0	54.0	52.7	51.2
-80°	32.4	32.6	32.8	32.8	32.8	32.6	32.4	32.1	31.6	31.1	30.5
-82.5°	20.5	20.6	20.7	20.7	20.7	20.6	20.5	20.3	20.1	19.8	19.5
-85°	12.0	12.1	12.1	12.1	12.1	12.1	12.0	11.9	11.9	11.7	11.6
-87.5°	6.8	6.9	6.9	6.9	6.9	6.9	6.8	6.8	6.7	6.7	6.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	6.4	6.3	6.1	6.0	5.8	5.7	5.5	5.3	5.1	4.9
85°	11.5	11.3	11.1	10.9	10.7	10.5	10.2	9.9	9.7	9.4	9.0
82.5°	19.1	18.7	18.3	17.8	17.2	16.6	16.0	15.3	14.6	13.9	13.1
80°	29.9	29.1	28.2	27.3	26.3	25.2	24.0	22.7	21.4	20.2	19.2
77.5°	49.5	47.6	45.5	43.1	40.5	37.8	34.8	32.3	30.6	28.8	27.0
75°	109.2	101.2	92.3	82.5	71.9	60.5	54.4	50.6	46.6	42.4	38.1
72.5°	232.5	213.9	193.2	170.6	146.0	129.6	115.3	100.1	84.0	67.2	54.7
70°	407.0	379.9	349.9	317.0	286.0	255.6	223.1	188.6	152.2	126.7	106.5
67.5°	597.6	567.6	534.4	497.7	457.3	413.8	367.4	318.1	274.0	230.8	185.7
65°	804.4	761.9	714.7	673.5	629.3	581.9	531.2	476.7	418.8	357.9	296.3
62.5°	1042.4	994.2	941.3	884.0	822.0	755.4	690.4	631.0	568.4	502.7	432.6
60°	1281.6	1229.7	1170.7	1106.3	1036.6	961.9	884.0	801.5	714.7	642.5	567.6
57.5°	1522.8	1457.9	1394.9	1326.1	1251.8	1170.7	1083.8	992.0	896.9	798.1	698.8
55°	1811.0	1733.2	1648.0	1555.1	1460.1	1373.5	1281.6	1183.4	1078.8	969.7	858.4
52.5°	2109.9	2022.1	1925.3	1819.9	1710.2	1594.1	1473.1	1368.3	1258.5	1141.7	1019.7
50°	2359.3	2280.0	2192.7	2092.6	1969.9	1839.0	1704.6	1565.0	1431.1	1308.4	1179.8
47.5°	2569.0	2497.8	2419.6	2322.0	2212.1	2089.2	1940.5	1784.8	1628.6	1469.2	1333.5
45°	3530.8	3059.5	2609.5	2518.1	2420.1	2299.5	2167.1	2009.0	1835.1	1660.6	1482.0
42.5°	4623.5	4204.2	3689.8	3088.4	2593.6	2482.3	2358.6	2210.9	2043.6	1852.1	1660.6
40°	5341.5	5156.1	4676.4	4144.8	3486.4	2758.8	2520.0	2388.5	2225.5	2043.6	1835.1
37.5°	5753.9	5546.0	5328.7	5021.5	4415.9	3728.5	2917.1	2532.7	2388.5	2210.9	2009.0
35°	6191.8	5948.6	5701.0	5446.2	5181.5	4553.0	3809.8	2917.1	2520.0	2358.6	2167.1
32.5°	6701.2	6400.1	6081.4	5798.2	5505.7	5210.5	4553.0	3728.5	2758.8	2482.3	2299.5
30°	7357.2	6927.2	6527.6	6157.3	5830.9	5505.7	5181.5	4415.9	3486.4	2593.6	2420.1
27.5°	8372.6	7548.8	7045.2	6570.6	6157.3	5798.2	5446.2	5021.5	4144.8	3088.4	2518.1
25°	9775.3	8601.3	7658.8	7045.2	6527.6	6081.4	5701.0	5328.7	4676.4	3689.8	2609.5
22.5°	11857.7	9963.3	8601.3	7548.8	6927.2	6400.1	5948.6	5546.0	5156.1	4204.2	3059.5
20°	16396.7	11857.7	9775.3	8372.6	7357.2	6701.2	6191.8	5753.9	5341.5	4623.5	3530.8
17.5°	24670.8	15801.0	11053.5	9219.1	7924.0	7059.3	6445.8	5945.7	5508.7	5000.9	3954.2
15°	34531.8	21736.6	14044.7	10285.4	8552.8	7384.6	6671.8	6117.0	5659.2	5223.4	4270.6
12.5°	47783.6	29230.4	16965.2	11220.7	9174.6	7775.3	6915.8	6297.2	5794.6	5340.8	4534.2
10°	60016.6	37423.1	21843.7	13469.8	9895.5	8197.4	7132.9	6447.2	5907.0	5438.1	4752.5
7.5°	72629.6	45776.5	26512.7	15273.4	10469.2	8532.2	7304.6	6565.6	5995.6	5514.6	4923.9
5°	82000.3	51934.9	29935.1	16589.6	10886.4	8775.1	7428.8	6651.1	6059.5	5569.8	5047.3
2.5°	87782.7	55713.1	32025.7	17391.1	11139.9	8922.3	7504.0	6702.8	6098.1	5603.1	5121.7
0°	89738.5	56987.0	32729.1	17660.3	11224.9	8971.6	7529.2	6720.1	6111.0	5614.2	5146.6
-2.5°	87782.7	55713.1	32025.7	17391.1	11139.9	8922.3	7504.0	6702.8	6098.1	5603.1	5121.7
-5°	82000.3	51934.9	29935.1	16589.6	10886.4	8775.1	7428.8	6651.1	6059.5	5569.8	5047.3
-7.5°	72629.6	45776.5	26512.7	15273.4	10469.2	8532.2	7304.6	6565.6	5995.6	5514.6	4923.9
-10°	60016.6	37423.1	21843.7	13469.8	9895.5	8197.4	7132.9	6447.2	5907.0	5438.1	4752.5
-12.5°	47783.6	29230.4	16965.2	11220.7	9174.6	7775.3	6915.8	6297.2	5794.6	5340.8	4534.2
-15°	34531.8	21736.6	14044.7	10285.4	8552.8	7384.6	6671.8	6117.0	5659.2	5223.4	4270.6
-17.5°	24670.8	15801.0	11053.5	9219.1	7924.0	7059.3	6445.8	5945.7	5508.7	5000.9	3954.2
-20°	16396.7	11857.7	9775.3	8372.6	7357.2	6701.2	6191.8	5753.9	5341.5	4623.5	3530.8



REPORT NUMBER: P731302 (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°	11857.7	9963.3	8601.3	7548.8	6927.2	6400.1	5948.6	5546.0	5156.1	4204.2	3059.5
-25°	9775.3	8601.3	7658.8	7045.2	6527.6	6081.4	5701.0	5328.7	4676.4	3689.8	2609.5
-27.5°	8372.6	7548.8	7045.2	6570.6	6157.3	5798.2	5446.2	5021.5	4144.8	3088.4	2518.1
-30°	7357.2	6927.2	6527.6	6157.3	5830.9	5505.7	5181.5	4415.9	3486.4	2593.6	2420.1
-32.5°	6701.2	6400.1	6081.4	5798.2	5505.7	5210.5	4553.0	3728.5	2758.8	2482.3	2299.5
-35°	6191.8	5948.6	5701.0	5446.2	5181.5	4553.0	3809.8	2917.1	2520.0	2358.6	2167.1
-37.5°	5753.9	5546.0	5328.7	5021.5	4415.9	3728.5	2917.1	2532.7	2388.5	2210.9	2009.0
-40°	5341.5	5156.1	4676.4	4144.8	3486.4	2758.8	2520.0	2388.5	2225.5	2043.6	1835.1
-42.5°	4623.5	4204.2	3689.8	3088.4	2593.6	2482.3	2358.6	2210.9	2043.6	1852.1	1660.6
-45°	3530.8	3059.5	2609.5	2518.1	2420.1	2299.5	2167.1	2009.0	1835.1	1660.6	1482.0
-47.5°	2569.0	2497.8	2419.6	2322.0	2212.1	2089.2	1940.5	1784.8	1628.6	1469.2	1333.5
-50°	2359.3	2280.0	2192.7	2092.6	1969.9	1839.0	1704.6	1565.0	1431.1	1308.4	1179.8
-52.5°	2109.9	2022.1	1925.3	1819.9	1710.2	1594.1	1473.1	1368.3	1258.5	1141.7	1019.7
-55°	1811.0	1733.2	1648.0	1555.1	1460.1	1373.5	1281.6	1183.4	1078.8	969.7	858.4
-57.5°	1522.8	1457.9	1394.9	1326.1	1251.8	1170.7	1083.8	992.0	896.9	798.1	698.8
-60°	1281.6	1229.7	1170.7	1106.3	1036.6	961.9	884.0	801.5	714.7	642.5	567.6
-62.5°	1042.4	994.2	941.3	884.0	822.0	755.4	690.4	631.0	568.4	502.7	432.6
-65°	804.4	761.9	714.7	673.5	629.3	581.9	531.2	476.7	418.8	357.9	296.3
-67.5°	597.6	567.6	534.4	497.7	457.3	413.8	367.4	318.1	274.0	230.8	185.7
-70°	407.0	379.9	349.9	317.0	286.0	255.6	223.1	188.6	152.2	126.7	106.5
-72.5°	232.5	213.9	193.2	170.6	146.0	129.6	115.3	100.1	84.0	67.2	54.7
-75°	109.2	101.2	92.3	82.5	71.9	60.5	54.4	50.6	46.6	42.4	38.1
-77.5°	49.5	47.6	45.5	43.1	40.5	37.8	34.8	32.3	30.6	28.8	27.0
-80°	29.9	29.1	28.2	27.3	26.3	25.2	24.0	22.7	21.4	20.2	19.2
-82.5°	19.1	18.7	18.3	17.8	17.2	16.6	16.0	15.3	14.6	13.9	13.1
-85°	11.5	11.3	11.1	10.9	10.7	10.5	10.2	9.9	9.7	9.4	9.0
-87.5°	6.5	6.4	6.3	6.1	6.0	5.8	5.7	5.5	5.3	5.1	4.9
-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: P731302 (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°
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°	4.7	4.4	4.2	4.0	3.7	3.4	3.2	2.9	2.6	2.4	2.1
85°	8.7	8.4	8.0	7.7	7.3	6.9	6.4	5.8	5.3	4.7	4.1
82.5°	12.3	11.7	11.2	10.6	10.1	9.5	8.9	8.3	7.7	7.0	6.2
80°	18.1	16.9	15.8	14.6	13.3	12.1	11.3	10.5	9.6	8.8	7.9
77.5°	25.1	23.1	21.0	19.4	17.9	16.3	14.6	13.0	11.6	10.5	9.5
75°	33.5	30.8	28.3	25.7	23.1	20.5	18.5	16.5	14.5	12.4	11.0
72.5°	49.4	43.8	38.1	32.5	29.4	26.3	23.0	20.0	17.6	15.2	12.7
70°	85.4	63.5	52.2	45.5	38.5	32.1	28.4	24.6	20.8	18.0	15.2
67.5°	139.2	114.6	89.1	62.9	50.8	42.7	34.5	29.4	25.2	20.8	17.6
65°	244.0	189.8	136.8	107.6	77.6	54.0	44.9	35.6	29.4	24.6	20.0
62.5°	359.8	288.4	226.7	163.3	118.7	85.0	55.1	44.9	34.5	28.4	23.0
60°	489.4	407.0	322.0	249.0	178.1	122.5	85.0	54.0	42.7	32.1	26.3
57.5°	614.4	527.2	435.5	340.9	256.5	178.1	118.7	77.6	50.8	38.5	29.4
55°	743.2	642.7	546.0	445.1	340.9	249.0	163.3	107.6	62.9	45.5	32.5
52.5°	894.9	767.3	652.2	546.0	435.5	322.0	226.7	136.8	89.1	52.2	38.1
50°	1044.8	907.1	767.3	642.7	527.2	407.0	288.4	189.8	114.6	63.5	43.8
47.5°	1192.6	1044.8	894.9	743.2	614.4	489.4	359.8	244.0	139.2	85.4	49.4
45°	1333.5	1179.8	1019.7	858.4	698.8	567.6	432.6	296.3	185.7	106.5	54.7
42.5°	1469.2	1308.4	1141.7	969.7	798.1	642.5	502.7	357.9	230.8	126.7	67.2
40°	1628.6	1431.1	1258.5	1078.8	896.9	714.7	568.4	418.8	274.0	152.2	84.0
37.5°	1784.8	1565.0	1368.3	1183.4	992.0	801.5	631.0	476.7	318.1	188.6	100.1
35°	1940.5	1704.6	1473.1	1281.6	1083.8	884.0	690.4	531.2	367.4	223.1	115.3
32.5°	2089.2	1839.0	1594.1	1373.5	1170.7	961.9	755.4	581.9	413.8	255.6	129.6
30°	2212.1	1969.9	1710.2	1460.1	1251.8	1036.6	822.0	629.3	457.3	286.0	146.0
27.5°	2322.0	2092.6	1819.9	1555.1	1326.1	1106.3	884.0	673.5	497.7	317.0	170.6
25°	2419.6	2192.7	1925.3	1648.0	1394.9	1170.7	941.3	714.7	534.4	349.9	193.2
22.5°	2497.8	2280.0	2022.1	1733.2	1457.9	1229.7	994.2	761.9	567.6	379.9	213.9
20°	2569.0	2359.3	2109.9	1811.0	1522.8	1281.6	1042.4	804.4	597.6	407.0	232.5
17.5°	2686.1	2424.5	2177.5	1883.0	1585.7	1327.9	1085.4	842.2	624.2	431.0	249.0
15°	3029.7	2476.1	2234.7	1946.1	1640.8	1368.3	1123.0	875.3	647.5	452.0	263.4
12.5°	3324.1	2520.3	2283.6	1999.9	1687.8	1402.8	1155.0	903.4	667.3	469.8	275.7
10°	3567.5	2556.8	2324.0	2044.3	1726.6	1431.1	1181.3	926.5	683.5	484.5	285.7
7.5°	3758.5	2585.4	2355.6	2079.0	1756.8	1453.3	1201.8	944.6	696.2	495.9	293.6
5°	3895.8	2606.0	2378.3	2103.9	1778.6	1469.2	1216.6	957.5	705.3	504.1	299.2
2.5°	3978.6	2618.4	2391.9	2118.9	1791.6	1478.8	1225.4	965.3	710.8	509.1	302.6
0°	4006.2	2622.5	2396.5	2123.9	1796.0	1482.0	1228.4	967.9	712.6	510.7	303.7
-2.5°	3978.6	2618.4	2391.9	2118.9	1791.6	1478.8	1225.4	965.3	710.8	509.1	302.6
-5°	3895.8	2606.0	2378.3	2103.9	1778.6	1469.2	1216.6	957.5	705.3	504.1	299.2
-7.5°	3758.5	2585.4	2355.6	2079.0	1756.8	1453.3	1201.8	944.6	696.2	495.9	293.6
-10°	3567.5	2556.8	2324.0	2044.3	1726.6	1431.1	1181.3	926.5	683.5	484.5	285.7
-12.5°	3324.1	2520.3	2283.6	1999.9	1687.8	1402.8	1155.0	903.4	667.3	469.8	275.7
-15°	3029.7	2476.1	2234.7	1946.1	1640.8	1368.3	1123.0	875.3	647.5	452.0	263.4
-17.5°	2686.1	2424.5	2177.5	1883.0	1585.7	1327.9	1085.4	842.2	624.2	431.0	249.0
-20°	2569.0	2359.3	2109.9	1811.0	1522.8	1281.6	1042.4	804.4	597.6	407.0	232.5



REPORT NUMBER: P731302 (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°	2497.8	2280.0	2022.1	1733.2	1457.9	1229.7	994.2	761.9	567.6	379.9	213.9
-25°	2419.6	2192.7	1925.3	1648.0	1394.9	1170.7	941.3	714.7	534.4	349.9	193.2
-27.5°	2322.0	2092.6	1819.9	1555.1	1326.1	1106.3	884.0	673.5	497.7	317.0	170.6
-30°	2212.1	1969.9	1710.2	1460.1	1251.8	1036.6	822.0	629.3	457.3	286.0	146.0
-32.5°	2089.2	1839.0	1594.1	1373.5	1170.7	961.9	755.4	581.9	413.8	255.6	129.6
-35°	1940.5	1704.6	1473.1	1281.6	1083.8	884.0	690.4	531.2	367.4	223.1	115.3
-37.5°	1784.8	1565.0	1368.3	1183.4	992.0	801.5	631.0	476.7	318.1	188.6	100.1
-40°	1628.6	1431.1	1258.5	1078.8	896.9	714.7	568.4	418.8	274.0	152.2	84.0
-42.5°	1469.2	1308.4	1141.7	969.7	798.1	642.5	502.7	357.9	230.8	126.7	67.2
-45°	1333.5	1179.8	1019.7	858.4	698.8	567.6	432.6	296.3	185.7	106.5	54.7
-47.5°	1192.6	1044.8	894.9	743.2	614.4	489.4	359.8	244.0	139.2	85.4	49.4
-50°	1044.8	907.1	767.3	642.7	527.2	407.0	288.4	189.8	114.6	63.5	43.8
-52.5°	894.9	767.3	652.2	546.0	435.5	322.0	226.7	136.8	89.1	52.2	38.1
-55°	743.2	642.7	546.0	445.1	340.9	249.0	163.3	107.6	62.9	45.5	32.5
-57.5°	614.4	527.2	435.5	340.9	256.5	178.1	118.7	77.6	50.8	38.5	29.4
-60°	489.4	407.0	322.0	249.0	178.1	122.5	85.0	54.0	42.7	32.1	26.3
-62.5°	359.8	288.4	226.7	163.3	118.7	85.0	55.1	44.9	34.5	28.4	23.0
-65°	244.0	189.8	136.8	107.6	77.6	54.0	44.9	35.6	29.4	24.6	20.0
-67.5°	139.2	114.6	89.1	62.9	50.8	42.7	34.5	29.4	25.2	20.8	17.6
-70°	85.4	63.5	52.2	45.5	38.5	32.1	28.4	24.6	20.8	18.0	15.2
-72.5°	49.4	43.8	38.1	32.5	29.4	26.3	23.0	20.0	17.6	15.2	12.7
-75°	33.5	30.8	28.3	25.7	23.1	20.5	18.5	16.5	14.5	12.4	11.0
-77.5°	25.1	23.1	21.0	19.4	17.9	16.3	14.6	13.0	11.6	10.5	9.5
-80°	18.1	16.9	15.8	14.6	13.3	12.1	11.3	10.5	9.6	8.8	7.9
-82.5°	12.3	11.7	11.2	10.6	10.1	9.5	8.9	8.3	7.7	7.0	6.2
-85°	8.7	8.4	8.0	7.7	7.3	6.9	6.4	5.8	5.3	4.7	4.1
-87.5°	4.7	4.4	4.2	4.0	3.7	3.4	3.2	2.9	2.6	2.4	2.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	1.5	1.2	0.9	0.6	0.3	0.0
85°	3.6	3.0	2.4	1.8	1.2	0.6	0.0
82.5°	5.3	4.5	3.6	2.7	1.8	0.9	0.0
80°	7.1	5.9	4.8	3.6	2.4	1.2	0.0
77.5°	8.4	7.3	5.9	4.5	3.0	1.5	0.0
75°	9.7	8.4	7.1	5.3	3.6	1.8	0.0
72.5°	11.0	9.5	7.9	6.2	4.1	2.1	0.0
70°	12.4	10.5	8.8	7.0	4.7	2.4	0.0
67.5°	14.5	11.6	9.6	7.7	5.3	2.6	0.0
65°	16.5	13.0	10.5	8.3	5.8	2.9	0.0
62.5°	18.5	14.6	11.3	8.9	6.4	3.2	0.0
60°	20.5	16.3	12.1	9.5	6.9	3.4	0.0
57.5°	23.1	17.9	13.3	10.1	7.3	3.7	0.0
55°	25.7	19.4	14.6	10.6	7.7	4.0	0.0
52.5°	28.3	21.0	15.8	11.2	8.0	4.2	0.0
50°	30.8	23.1	16.9	11.7	8.4	4.4	0.0
47.5°	33.5	25.1	18.1	12.3	8.7	4.7	0.0
45°	38.1	27.0	19.2	13.1	9.0	4.9	0.0
42.5°	42.4	28.8	20.2	13.9	9.4	5.1	0.0
40°	46.6	30.6	21.4	14.6	9.7	5.3	0.0
37.5°	50.6	32.3	22.7	15.3	9.9	5.5	0.0
35°	54.4	34.8	24.0	16.0	10.2	5.7	0.0
32.5°	60.5	37.8	25.2	16.6	10.5	5.8	0.0
30°	71.9	40.5	26.3	17.2	10.7	6.0	0.0
27.5°	82.5	43.1	27.3	17.8	10.9	6.1	0.0
25°	92.3	45.5	28.2	18.3	11.1	6.3	0.0
22.5°	101.2	47.6	29.1	18.7	11.3	6.4	0.0
20°	109.2	49.5	29.9	19.1	11.5	6.5	0.0
17.5°	116.3	51.2	30.5	19.5	11.6	6.6	0.0
15°	122.5	52.7	31.1	19.8	11.7	6.7	0.0
12.5°	127.7	54.0	31.6	20.1	11.9	6.7	0.0
10°	132.1	55.0	32.1	20.3	11.9	6.8	0.0
7.5°	135.4	55.9	32.4	20.5	12.0	6.8	0.0
5°	137.9	56.4	32.6	20.6	12.1	6.9	0.0
2.5°	139.3	56.8	32.8	20.7	12.1	6.9	0.0
0°	139.8	56.9	32.8	20.7	12.1	6.9	0.0
-2.5°	139.3	56.8	32.8	20.7	12.1	6.9	0.0
-5°	137.9	56.4	32.6	20.6	12.1	6.9	0.0
-7.5°	135.4	55.9	32.4	20.5	12.0	6.8	0.0
-10°	132.1	55.0	32.1	20.3	11.9	6.8	0.0
-12.5°	127.7	54.0	31.6	20.1	11.9	6.7	0.0
-15°	122.5	52.7	31.1	19.8	11.7	6.7	0.0
-17.5°	116.3	51.2	30.5	19.5	11.6	6.6	0.0
-20°	109.2	49.5	29.9	19.1	11.5	6.5	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	101.2	47.6	29.1	18.7	11.3	6.4	0.0
-25°	92.3	45.5	28.2	18.3	11.1	6.3	0.0
-27.5°	82.5	43.1	27.3	17.8	10.9	6.1	0.0
-30°	71.9	40.5	26.3	17.2	10.7	6.0	0.0
-32.5°	60.5	37.8	25.2	16.6	10.5	5.8	0.0
-35°	54.4	34.8	24.0	16.0	10.2	5.7	0.0
-37.5°	50.6	32.3	22.7	15.3	9.9	5.5	0.0
-40°	46.6	30.6	21.4	14.6	9.7	5.3	0.0
-42.5°	42.4	28.8	20.2	13.9	9.4	5.1	0.0
-45°	38.1	27.0	19.2	13.1	9.0	4.9	0.0
-47.5°	33.5	25.1	18.1	12.3	8.7	4.7	0.0
-50°	30.8	23.1	16.9	11.7	8.4	4.4	0.0
-52.5°	28.3	21.0	15.8	11.2	8.0	4.2	0.0
-55°	25.7	19.4	14.6	10.6	7.7	4.0	0.0
-57.5°	23.1	17.9	13.3	10.1	7.3	3.7	0.0
-60°	20.5	16.3	12.1	9.5	6.9	3.4	0.0
-62.5°	18.5	14.6	11.3	8.9	6.4	3.2	0.0
-65°	16.5	13.0	10.5	8.3	5.8	2.9	0.0
-67.5°	14.5	11.6	9.6	7.7	5.3	2.6	0.0
-70°	12.4	10.5	8.8	7.0	4.7	2.4	0.0
-72.5°	11.0	9.5	7.9	6.2	4.1	2.1	0.0
-75°	9.7	8.4	7.1	5.3	3.6	1.8	0.0
-77.5°	8.4	7.3	5.9	4.5	3.0	1.5	0.0
-80°	7.1	5.9	4.8	3.6	2.4	1.2	0.0
-82.5°	5.3	4.5	3.6	2.7	1.8	0.9	0.0
-85°	3.6	3.0	2.4	1.8	1.2	0.6	0.0
-87.5°	1.8	1.5	1.2	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

