

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: P731236 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-70-3S-HEG**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731236 (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: EPHESUS  
Catalog Number: EPH-LS-08-0530N-40-70-3S-HEG  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 3S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

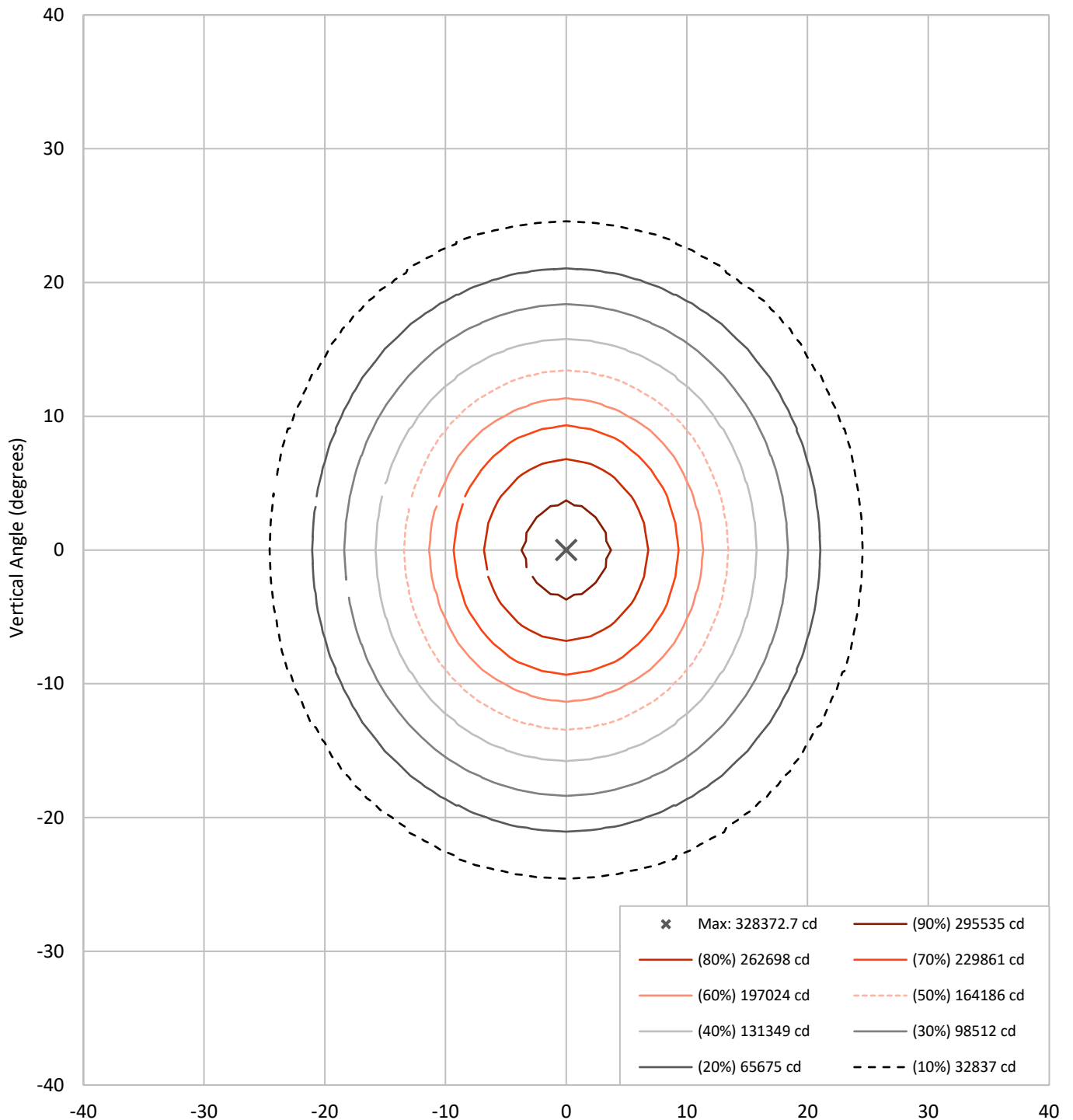
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	88689.1 lumens	Max Intensity:	328372.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	158.4 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:	38454.2 lumens	Field Lumens:	73620.7 lumens
Beam Efficiency:	43.4%	Field Efficiency:	83.0%

Input Watts (W): 559.9  
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





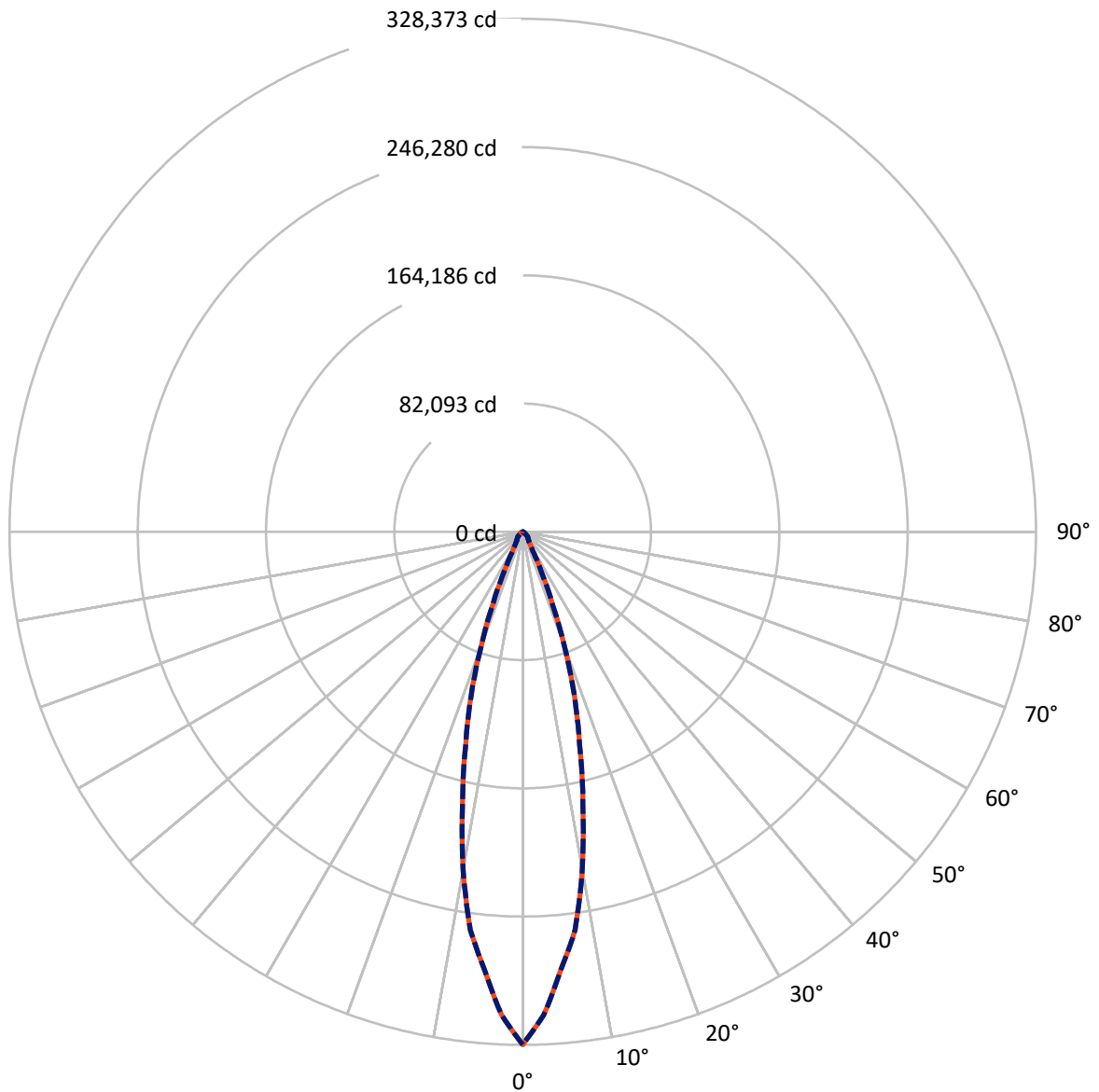
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### Lumen Table

90																
80	0.1	0.8		3.1		8.0		10.7		8.0		3.1		0.8		0.1
70																
60	0.4	0.5	1.9	5.9	11.6	17.6	22.5	25.2	25.2	22.5	17.6	11.6	5.9	1.9	0.5	0.4
50		1.5	6.9	16.2	27.7	39.6	49.1	54.2	54.2	49.1	39.6	27.7	16.2	6.9	1.5	
40	1.0	3.6	13.2	28.1	46.4	73.1	104.7	122.8	122.8	104.7	73.1	46.4	28.1	13.2	3.6	1.0
30		6.2	19.6	40.2	82.0	135.0	173.7	204.0	204.0	173.7	135.0	82.0	40.2	19.6	6.2	
20	2.4	8.4	25.3	57.5	122.2	193.5	447.4	920.2	920.2	447.4	193.5	122.2	57.5	25.3	8.4	2.4
10		10.1	29.5	77.5	147.8	422.4	1957.4	3919.8	3919.8	1957.4	422.4	147.8	77.5	29.5	10.1	
0	3.0	11.0	31.6	88.0	168.6	847.1	3812.5	7519.0	7519.0	3812.5	847.1	168.6	88.0	31.6	11.0	3.0
-10		11.0	31.6	88.0	168.6	847.1	3812.5	7519.0	7519.0	3812.5	847.1	168.6	88.0	31.6	11.0	
-20	2.4	10.1	29.5	77.5	147.8	422.4	1957.4	3919.8	3919.8	1957.4	422.4	147.8	77.5	29.5	10.1	2.4
-30		8.4	25.3	57.5	122.2	193.5	447.4	920.2	920.2	447.4	193.5	122.2	57.5	25.3	8.4	
-40	1.0	6.2	19.6	40.2	82.0	135.0	173.7	204.0	204.0	173.7	135.0	82.0	40.2	19.6	6.2	1.0
-50		3.6	13.2	28.1	46.4	73.1	104.7	122.8	122.8	104.7	73.1	46.4	28.1	13.2	3.6	
-60	0.4	1.5	6.9	16.2	27.7	39.6	49.1	54.2	54.2	49.1	39.6	27.7	16.2	6.9	1.5	0.4
-70		0.5	1.9	5.9	11.6	17.6	22.5	25.2	25.2	22.5	17.6	11.6	5.9	1.9	0.5	
-80																
-90	0.1	0.8		3.1		8.0		10.7		8.0		3.1		0.8		0.1

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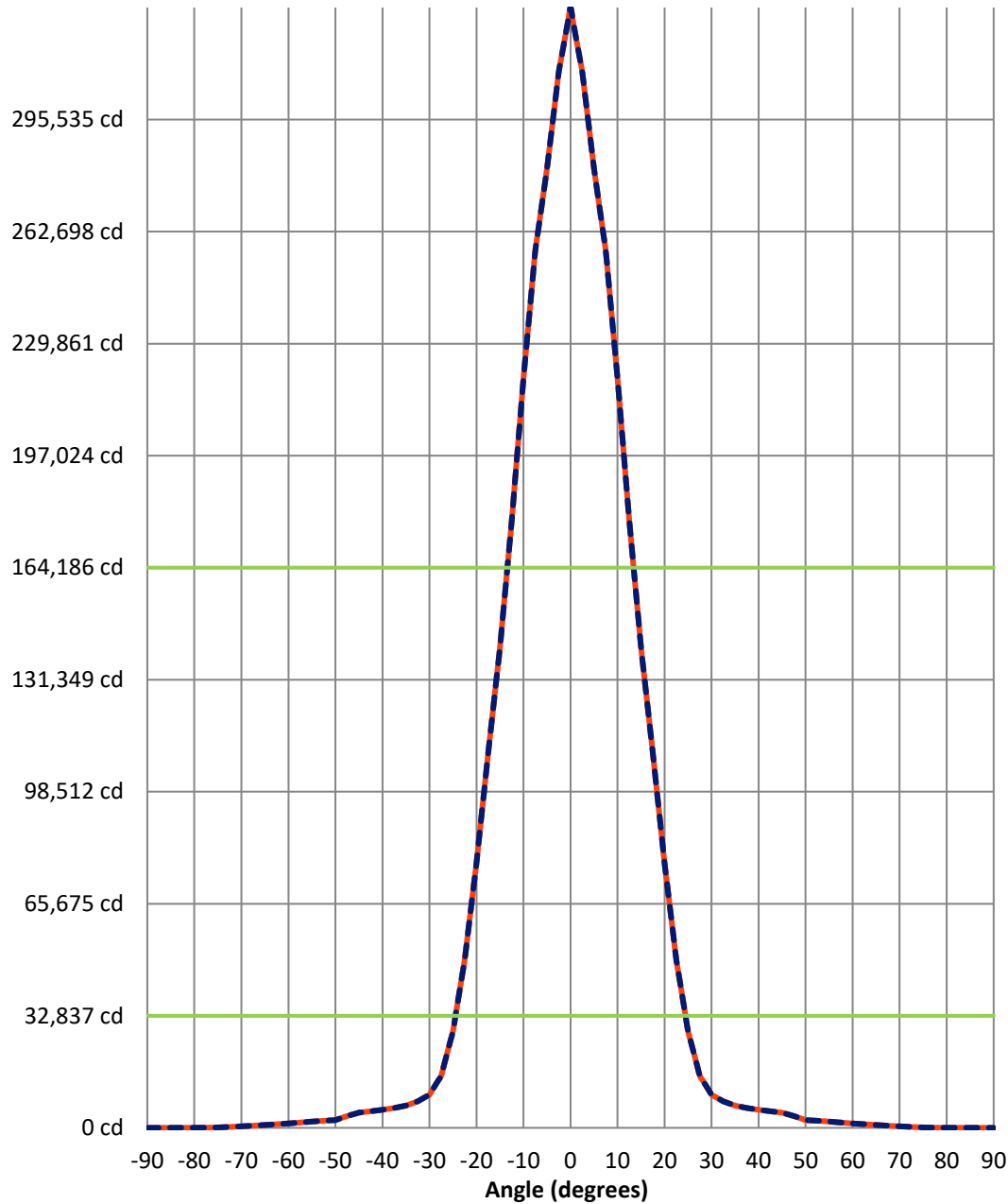
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
H Angle: 26.9°  
V Angle: 26.9°  
Lumens: 38454.2  
Efficiency: 43.4%

**Field:**  
H Angle: 48.9°  
V Angle: 48.9°  
Lumens: 73620.7  
Efficiency: 83.0%

**Spill:**  
Lumens: 15068.4  
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	0.5	0.8	1.0	1.3	1.6	1.8	2.1	2.3	2.5
85°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.6	5.1
82.5°	0.0	0.8	1.6	2.3	3.1	3.9	4.6	5.4	6.1	6.6	7.2
80°	0.0	1.0	2.1	3.1	4.1	5.2	6.1	6.9	7.6	8.3	9.0
77.5°	0.0	1.3	2.6	3.9	5.2	6.3	7.3	8.2	9.1	10.0	11.1
75°	0.0	1.6	3.1	4.6	6.1	7.3	8.4	9.5	10.6	12.5	14.2
72.5°	0.0	1.8	3.6	5.4	6.9	8.2	9.5	11.0	13.1	15.2	17.3
70°	0.0	2.1	4.1	6.1	7.6	9.1	10.6	13.1	15.6	18.0	21.3
67.5°	0.0	2.3	4.6	6.6	8.3	10.0	12.5	15.2	18.0	21.8	25.5
65°	0.0	2.5	5.1	7.2	9.0	11.1	14.2	17.3	21.3	25.5	30.8
62.5°	0.0	2.8	5.5	7.7	9.7	12.6	16.0	19.9	24.6	29.9	38.8
60°	0.0	3.0	6.0	8.2	10.4	14.0	17.7	22.7	27.8	37.0	46.7
57.5°	0.0	3.2	6.3	8.7	11.5	15.4	20.0	25.5	33.3	43.9	67.1
55°	0.0	3.4	6.6	9.2	12.5	16.8	22.3	28.1	39.3	54.3	93.0
52.5°	0.0	3.7	7.0	9.6	13.6	18.2	24.5	33.0	45.2	77.1	118.3
50°	0.0	3.9	7.3	10.1	14.6	20.0	26.6	37.9	54.9	99.1	164.2
47.5°	0.0	4.1	7.5	10.6	15.6	21.7	29.0	42.7	73.9	120.4	211.1
45°	0.0	4.2	7.8	11.3	16.6	23.4	32.9	47.3	92.1	160.6	256.3
42.5°	0.0	4.4	8.1	12.0	17.5	25.0	36.7	58.1	109.6	199.6	309.6
40°	0.0	4.6	8.3	12.6	18.5	26.5	40.3	72.7	131.6	237.0	362.2
37.5°	0.0	4.8	8.6	13.2	19.7	27.9	43.8	86.5	163.1	275.2	412.3
35°	0.0	4.9	8.8	13.8	20.7	30.2	47.0	99.7	192.9	317.7	459.5
32.5°	0.0	5.1	9.0	14.4	21.8	32.7	52.3	112.0	221.0	357.9	503.2
30°	0.0	5.2	9.2	14.9	22.7	35.1	62.2	126.3	247.4	395.5	544.3
27.5°	0.0	5.3	9.4	15.3	23.6	37.3	71.3	147.5	274.2	430.5	582.5
25°	0.0	5.4	9.6	15.8	24.4	39.3	79.8	167.1	302.6	462.2	618.2
22.5°	0.0	5.5	9.7	16.2	25.2	41.2	87.5	185.0	328.6	490.9	658.9
20°	0.0	5.6	9.9	16.5	25.8	42.8	94.4	201.1	352.0	516.8	695.7
17.5°	0.0	5.7	10.0	16.9	26.4	44.3	100.6	215.4	372.8	539.9	728.5
15°	0.0	5.8	10.1	17.1	27.0	45.6	105.9	227.8	390.9	560.0	757.1
12.5°	0.0	5.9	10.2	17.4	27.4	46.7	110.5	238.4	406.4	577.1	781.4
10°	0.0	5.9	10.3	17.6	27.8	47.6	114.2	247.1	419.0	591.2	801.4
7.5°	0.0	5.9	10.3	17.7	28.0	48.3	117.1	253.9	428.9	602.1	817.0
5°	0.0	6.0	10.4	17.8	28.2	48.8	119.2	258.8	436.0	610.0	828.2
2.5°	0.0	6.0	10.4	17.9	28.4	49.1	120.5	261.7	440.3	614.7	835.0
0°	0.0	6.0	10.4	17.9	28.4	49.1	120.5	261.7	440.3	614.7	835.0
-2.5°	0.0	6.0	10.4	17.9	28.4	49.1	120.5	261.7	440.3	614.7	835.0
-5°	0.0	6.0	10.4	17.8	28.2	48.8	119.2	258.8	436.0	610.0	828.2
-7.5°	0.0	5.9	10.3	17.7	28.0	48.3	117.1	253.9	428.9	602.1	817.0
-10°	0.0	5.9	10.3	17.6	27.8	47.6	114.2	247.1	419.0	591.2	801.4
-12.5°	0.0	5.9	10.2	17.4	27.4	46.7	110.5	238.4	406.4	577.1	781.4
-15°	0.0	5.8	10.1	17.1	27.0	45.6	105.9	227.8	390.9	560.0	757.1
-17.5°	0.0	5.7	10.0	16.9	26.4	44.3	100.6	215.4	372.8	539.9	728.5
-20°	0.0	5.6	9.9	16.5	25.8	42.8	94.4	201.1	352.0	516.8	695.7



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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	5.5	9.7	16.2	25.2	41.2	87.5	185.0	328.6	490.9	658.9
-25°	0.0	5.4	9.6	15.8	24.4	39.3	79.8	167.1	302.6	462.2	618.2
-27.5°	0.0	5.3	9.4	15.3	23.6	37.3	71.3	147.5	274.2	430.5	582.5
-30°	0.0	5.2	9.2	14.9	22.7	35.1	62.2	126.3	247.4	395.5	544.3
-32.5°	0.0	5.1	9.0	14.4	21.8	32.7	52.3	112.0	221.0	357.9	503.2
-35°	0.0	4.9	8.8	13.8	20.7	30.2	47.0	99.7	192.9	317.7	459.5
-37.5°	0.0	4.8	8.6	13.2	19.7	27.9	43.8	86.5	163.1	275.2	412.3
-40°	0.0	4.6	8.3	12.6	18.5	26.5	40.3	72.7	131.6	237.0	362.2
-42.5°	0.0	4.4	8.1	12.0	17.5	25.0	36.7	58.1	109.6	199.6	309.6
-45°	0.0	4.2	7.8	11.3	16.6	23.4	32.9	47.3	92.1	160.6	256.3
-47.5°	0.0	4.1	7.5	10.6	15.6	21.7	29.0	42.7	73.9	120.4	211.1
-50°	0.0	3.9	7.3	10.1	14.6	20.0	26.6	37.9	54.9	99.1	164.2
-52.5°	0.0	3.7	7.0	9.6	13.6	18.2	24.5	33.0	45.2	77.1	118.3
-55°	0.0	3.4	6.6	9.2	12.5	16.8	22.3	28.1	39.3	54.3	93.0
-57.5°	0.0	3.2	6.3	8.7	11.5	15.4	20.0	25.5	33.3	43.9	67.1
-60°	0.0	3.0	6.0	8.2	10.4	14.0	17.7	22.7	27.8	37.0	46.7
-62.5°	0.0	2.8	5.5	7.7	9.7	12.6	16.0	19.9	24.6	29.9	38.8
-65°	0.0	2.5	5.1	7.2	9.0	11.1	14.2	17.3	21.3	25.5	30.8
-67.5°	0.0	2.3	4.6	6.6	8.3	10.0	12.5	15.2	18.0	21.8	25.5
-70°	0.0	2.1	4.1	6.1	7.6	9.1	10.6	13.1	15.6	18.0	21.3
-72.5°	0.0	1.8	3.6	5.4	6.9	8.2	9.5	11.0	13.1	15.2	17.3
-75°	0.0	1.6	3.1	4.6	6.1	7.3	8.4	9.5	10.6	12.5	14.2
-77.5°	0.0	1.3	2.6	3.9	5.2	6.3	7.3	8.2	9.1	10.0	11.1
-80°	0.0	1.0	2.1	3.1	4.1	5.2	6.1	6.9	7.6	8.3	9.0
-82.5°	0.0	0.8	1.6	2.3	3.1	3.9	4.6	5.4	6.1	6.6	7.2
-85°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.6	5.1
-87.5°	0.0	0.3	0.5	0.8	1.0	1.3	1.6	1.8	2.1	2.3	2.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	-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	3.2	3.4	3.7	3.9	4.1	4.2	4.4	4.6	4.8
85°	5.5	6.0	6.3	6.6	7.0	7.3	7.5	7.8	8.1	8.3	8.6
82.5°	7.7	8.2	8.7	9.2	9.6	10.1	10.6	11.3	12.0	12.6	13.2
80°	9.7	10.4	11.5	12.5	13.6	14.6	15.6	16.6	17.5	18.5	19.7
77.5°	12.6	14.0	15.4	16.8	18.2	20.0	21.7	23.4	25.0	26.5	27.9
75°	16.0	17.7	20.0	22.3	24.5	26.6	29.0	32.9	36.7	40.3	43.8
72.5°	19.9	22.7	25.5	28.1	33.0	37.9	42.7	47.3	58.1	72.7	86.5
70°	24.6	27.8	33.3	39.3	45.2	54.9	73.9	92.1	109.6	131.6	163.1
67.5°	29.9	37.0	43.9	54.3	77.1	99.1	120.4	160.6	199.6	237.0	275.2
65°	38.8	46.7	67.1	93.0	118.3	164.2	211.1	256.3	309.6	362.2	412.3
62.5°	47.6	73.5	102.7	141.2	196.1	249.4	311.2	374.2	434.8	491.6	545.7
60°	73.5	105.9	154.0	215.4	278.5	352.0	423.3	490.9	555.7	618.2	693.2
57.5°	102.7	154.0	221.8	294.9	376.7	456.0	531.4	604.4	690.3	775.8	858.0
55°	141.2	215.4	294.9	385.0	472.2	555.9	642.7	742.4	838.7	933.2	1023.7
52.5°	196.1	278.5	376.7	472.2	564.1	663.6	774.0	882.0	987.6	1088.6	1183.6
50°	249.4	352.0	456.0	555.9	663.6	784.6	903.8	1020.6	1131.8	1237.9	1353.7
47.5°	311.2	423.3	531.4	642.7	774.0	903.8	1031.6	1153.5	1270.9	1408.7	1543.8
45°	374.2	490.9	604.4	742.4	882.0	1020.6	1153.5	1281.9	1436.4	1587.3	1737.7
42.5°	434.8	555.7	690.3	838.7	987.6	1131.8	1270.9	1436.4	1602.0	1767.6	1912.3
40°	491.6	618.2	775.8	933.2	1088.6	1237.9	1408.7	1587.3	1767.6	1925.0	2066.0
37.5°	545.7	693.2	858.0	1023.7	1183.6	1353.7	1543.8	1737.7	1912.3	2066.0	2190.7
35°	597.1	764.6	937.5	1108.6	1274.2	1474.4	1678.4	1874.5	2040.1	2179.8	2523.3
32.5°	653.4	832.0	1012.7	1188.1	1378.8	1590.7	1807.1	1989.0	2147.1	2386.3	3225.1
30°	710.9	896.6	1082.8	1263.0	1479.3	1703.9	1913.4	2093.3	2243.4	3015.6	3819.7
27.5°	764.6	956.9	1147.1	1345.1	1574.2	1810.0	2008.4	2178.1	2671.4	3585.2	4343.5
25°	814.1	1012.7	1206.5	1425.4	1665.3	1896.6	2092.9	2257.1	3191.6	4045.0	4609.2
22.5°	859.9	1063.7	1261.0	1499.2	1749.0	1972.1	2160.6	2646.4	3636.5	4459.9	4797.1
20°	901.7	1108.6	1317.2	1566.5	1825.0	2040.7	2222.2	3054.1	3999.3	4620.2	4976.9
17.5°	938.9	1148.6	1371.6	1628.8	1883.5	2097.1	2323.4	3420.3	4325.7	4764.8	5142.9
15°	971.4	1183.6	1419.3	1683.3	1933.0	2141.8	2620.6	3694.0	4518.1	4895.0	5291.1
12.5°	999.1	1213.4	1459.9	1729.8	1975.3	2180.0	2875.3	3922.0	4619.6	5012.1	5446.9
10°	1021.8	1237.9	1493.4	1768.2	2010.2	2211.6	3085.8	4110.8	4703.8	5109.4	5576.7
7.5°	1039.6	1257.1	1519.6	1798.2	2037.5	2236.3	3251.0	4259.1	4770.0	5186.1	5679.1
5°	1052.4	1270.9	1538.4	1819.8	2057.1	2254.1	3369.8	4365.8	4817.7	5241.3	5753.0
2.5°	1060.0	1279.1	1549.7	1832.8	2069.0	2264.8	3441.4	4430.2	4846.5	5274.7	5797.7
0°	1062.6	1281.9	1553.5	1837.1	2072.9	2268.4	3465.3	4451.7	4856.1	5285.9	5812.7
-2.5°	1060.0	1279.1	1549.7	1832.8	2069.0	2264.8	3441.4	4430.2	4846.5	5274.7	5797.7
-5°	1052.4	1270.9	1538.4	1819.8	2057.1	2254.1	3369.8	4365.8	4817.7	5241.3	5753.0
-7.5°	1039.6	1257.1	1519.6	1798.2	2037.5	2236.3	3251.0	4259.1	4770.0	5186.1	5679.1
-10°	1021.8	1237.9	1493.4	1768.2	2010.2	2211.6	3085.8	4110.8	4703.8	5109.4	5576.7
-12.5°	999.1	1213.4	1459.9	1729.8	1975.3	2180.0	2875.3	3922.0	4619.6	5012.1	5446.9
-15°	971.4	1183.6	1419.3	1683.3	1933.0	2141.8	2620.6	3694.0	4518.1	4895.0	5291.1
-17.5°	938.9	1148.6	1371.6	1628.8	1883.5	2097.1	2323.4	3420.3	4325.7	4764.8	5142.9
-20°	901.7	1108.6	1317.2	1566.5	1825.0	2040.7	2222.2	3054.1	3999.3	4620.2	4976.9



REPORT NUMBER: P731236 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	859.9	1063.7	1261.0	1499.2	1749.0	1972.1	2160.6	2646.4	3636.5	4459.9	4797.1
-25°	814.1	1012.7	1206.5	1425.4	1665.3	1896.6	2092.9	2257.1	3191.6	4045.0	4609.2
-27.5°	764.6	956.9	1147.1	1345.1	1574.2	1810.0	2008.4	2178.1	2671.4	3585.2	4343.5
-30°	710.9	896.6	1082.8	1263.0	1479.3	1703.9	1913.4	2093.3	2243.4	3015.6	3819.7
-32.5°	653.4	832.0	1012.7	1188.1	1378.8	1590.7	1807.1	1989.0	2147.1	2386.3	3225.1
-35°	597.1	764.6	937.5	1108.6	1274.2	1474.4	1678.4	1874.5	2040.1	2179.8	2523.3
-37.5°	545.7	693.2	858.0	1023.7	1183.6	1353.7	1543.8	1737.7	1912.3	2066.0	2190.7
-40°	491.6	618.2	775.8	933.2	1088.6	1237.9	1408.7	1587.3	1767.6	1925.0	2066.0
-42.5°	434.8	555.7	690.3	838.7	987.6	1131.8	1270.9	1436.4	1602.0	1767.6	1912.3
-45°	374.2	490.9	604.4	742.4	882.0	1020.6	1153.5	1281.9	1436.4	1587.3	1737.7
-47.5°	311.2	423.3	531.4	642.7	774.0	903.8	1031.6	1153.5	1270.9	1408.7	1543.8
-50°	249.4	352.0	456.0	555.9	663.6	784.6	903.8	1020.6	1131.8	1237.9	1353.7
-52.5°	196.1	278.5	376.7	472.2	564.1	663.6	774.0	882.0	987.6	1088.6	1183.6
-55°	141.2	215.4	294.9	385.0	472.2	555.9	642.7	742.4	838.7	933.2	1023.7
-57.5°	102.7	154.0	221.8	294.9	376.7	456.0	531.4	604.4	690.3	775.8	858.0
-60°	73.5	105.9	154.0	215.4	278.5	352.0	423.3	490.9	555.7	618.2	693.2
-62.5°	47.6	73.5	102.7	141.2	196.1	249.4	311.2	374.2	434.8	491.6	545.7
-65°	38.8	46.7	67.1	93.0	118.3	164.2	211.1	256.3	309.6	362.2	412.3
-67.5°	29.9	37.0	43.9	54.3	77.1	99.1	120.4	160.6	199.6	237.0	275.2
-70°	24.6	27.8	33.3	39.3	45.2	54.9	73.9	92.1	109.6	131.6	163.1
-72.5°	19.9	22.7	25.5	28.1	33.0	37.9	42.7	47.3	58.1	72.7	86.5
-75°	16.0	17.7	20.0	22.3	24.5	26.6	29.0	32.9	36.7	40.3	43.8
-77.5°	12.6	14.0	15.4	16.8	18.2	20.0	21.7	23.4	25.0	26.5	27.9
-80°	9.7	10.4	11.5	12.5	13.6	14.6	15.6	16.6	17.5	18.5	19.7
-82.5°	7.7	8.2	8.7	9.2	9.6	10.1	10.6	11.3	12.0	12.6	13.2
-85°	5.5	6.0	6.3	6.6	7.0	7.3	7.5	7.8	8.1	8.3	8.6
-87.5°	2.8	3.0	3.2	3.4	3.7	3.9	4.1	4.2	4.4	4.6	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



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 CATALOG NUMBER: EPH-LS-08-0530N-40-70-3S-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°	4.9	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	5.9
85°	8.8	9.0	9.2	9.4	9.6	9.7	9.9	10.0	10.1	10.2	10.3
82.5°	13.8	14.4	14.9	15.3	15.8	16.2	16.5	16.9	17.1	17.4	17.6
80°	20.7	21.8	22.7	23.6	24.4	25.2	25.8	26.4	27.0	27.4	27.8
77.5°	30.2	32.7	35.1	37.3	39.3	41.2	42.8	44.3	45.6	46.7	47.6
75°	47.0	52.3	62.2	71.3	79.8	87.5	94.4	100.6	105.9	110.5	114.2
72.5°	99.7	112.0	126.3	147.5	167.1	185.0	201.1	215.4	227.8	238.4	247.1
70°	192.9	221.0	247.4	274.2	302.6	328.6	352.0	372.8	390.9	406.4	419.0
67.5°	317.7	357.9	395.5	430.5	462.2	490.9	516.8	539.9	560.0	577.1	591.2
65°	459.5	503.2	544.3	582.5	618.2	658.9	695.7	728.5	757.1	781.4	801.4
62.5°	597.1	653.4	710.9	764.6	814.1	859.9	901.7	938.9	971.4	999.1	1021.8
60°	764.6	832.0	896.6	956.9	1012.7	1063.7	1108.6	1148.6	1183.6	1213.4	1237.9
57.5°	937.5	1012.7	1082.8	1147.1	1206.5	1261.0	1317.2	1371.6	1419.3	1459.9	1493.4
55°	1108.6	1188.1	1263.0	1345.1	1425.4	1499.2	1566.5	1628.8	1683.3	1729.8	1768.2
52.5°	1274.2	1378.8	1479.3	1574.2	1665.3	1749.0	1825.0	1883.5	1933.0	1975.3	2010.2
50°	1474.4	1590.7	1703.9	1810.0	1896.6	1972.1	2040.7	2097.1	2141.8	2180.0	2211.6
47.5°	1678.4	1807.1	1913.4	2008.4	2092.9	2160.6	2222.2	2323.4	2620.6	2875.3	3085.8
45°	1874.5	1989.0	2093.3	2178.1	2257.1	2646.4	3054.1	3420.3	3694.0	3922.0	4110.8
42.5°	2040.1	2147.1	2243.4	2671.4	3191.6	3636.5	3999.3	4325.7	4518.1	4619.6	4703.8
40°	2179.8	2386.3	3015.6	3585.2	4045.0	4459.9	4620.2	4764.8	4895.0	5012.1	5109.4
37.5°	2523.3	3225.1	3819.7	4343.5	4609.2	4797.1	4976.9	5142.9	5291.1	5446.9	5576.7
35°	3295.4	3938.3	4481.9	4710.8	4931.2	5145.4	5355.8	5575.5	5770.9	5982.0	6169.8
32.5°	3938.3	4506.9	4762.2	5015.3	5260.3	5536.0	5796.4	6106.2	6387.6	6725.6	7090.7
30°	4481.9	4762.2	5043.6	5326.0	5646.3	5991.9	6363.9	6854.2	7398.0	7935.9	8559.4
27.5°	4710.8	5015.3	5326.0	5683.4	6094.0	6529.6	7242.2	7974.4	8896.7	9705.7	11651.1
25°	4931.2	5260.3	5646.3	6094.0	6624.8	7440.0	8455.4	9561.0	12148.4	14674.5	18894.3
22.5°	5145.4	5536.0	5991.9	6529.6	7440.0	8618.1	10256.7	13667.6	18801.7	25283.8	32370.3
20°	5355.8	5796.4	6363.9	7242.2	8455.4	10256.7	14182.8	21339.8	29869.4	41331.9	51913.1
17.5°	5575.5	6106.2	6854.2	7974.4	9561.0	13667.6	21339.8	32060.3	45978.0	61854.1	76741.5
15°	5770.9	6387.6	7398.0	8896.7	12148.4	18801.7	29869.4	45978.0	65263.9	84945.5	103934.4
12.5°	5982.0	6725.6	7935.9	9705.7	14674.5	25283.8	41331.9	61854.1	84945.5	108546.4	128980.1
10°	6169.8	7090.7	8559.4	11651.1	18894.3	32370.3	51913.1	76741.5	103934.4	128980.1	153356.4
7.5°	6318.4	7380.3	9055.7	13211.2	22933.0	39595.8	62823.2	90633.9	119417.7	147175.5	178343.7
5°	6425.9	7590.3	9416.6	14349.7	25893.3	44922.7	70928.7	101157.3	131014.8	163372.6	199023.6
2.5°	6490.9	7717.6	9635.8	15043.0	27701.7	48190.7	75930.3	107704.2	138316.6	174241.9	214202.2
0°	6512.7	7760.3	9709.3	15275.8	28310.1	49292.6	77622.1	109928.7	140814.5	177990.7	219664.8
-2.5°	6490.9	7717.6	9635.8	15043.0	27701.7	48190.7	75930.3	107704.2	138316.6	174241.9	214202.2
-5°	6425.9	7590.3	9416.6	14349.7	25893.3	44922.7	70928.7	101157.3	131014.8	163372.6	199023.6
-7.5°	6318.4	7380.3	9055.7	13211.2	22933.0	39595.8	62823.2	90633.9	119417.7	147175.5	178343.7
-10°	6169.8	7090.7	8559.4	11651.1	18894.3	32370.3	51913.1	76741.5	103934.4	128980.1	153356.4
-12.5°	5982.0	6725.6	7935.9	9705.7	14674.5	25283.8	41331.9	61854.1	84945.5	108546.4	128980.1
-15°	5770.9	6387.6	7398.0	8896.7	12148.4	18801.7	29869.4	45978.0	65263.9	84945.5	103934.4
-17.5°	5575.5	6106.2	6854.2	7974.4	9561.0	13667.6	21339.8	32060.3	45978.0	61854.1	76741.5
-20°	5355.8	5796.4	6363.9	7242.2	8455.4	10256.7	14182.8	21339.8	29869.4	41331.9	51913.1



REPORT NUMBER: P731236 (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°	5145.4	5536.0	5991.9	6529.6	7440.0	8618.1	10256.7	13667.6	18801.7	25283.8	32370.3
-25°	4931.2	5260.3	5646.3	6094.0	6624.8	7440.0	8455.4	9561.0	12148.4	14674.5	18894.3
-27.5°	4710.8	5015.3	5326.0	5683.4	6094.0	6529.6	7242.2	7974.4	8896.7	9705.7	11651.1
-30°	4481.9	4762.2	5043.6	5326.0	5646.3	5991.9	6363.9	6854.2	7398.0	7935.9	8559.4
-32.5°	3938.3	4506.9	4762.2	5015.3	5260.3	5536.0	5796.4	6106.2	6387.6	6725.6	7090.7
-35°	3295.4	3938.3	4481.9	4710.8	4931.2	5145.4	5355.8	5575.5	5770.9	5982.0	6169.8
-37.5°	2523.3	3225.1	3819.7	4343.5	4609.2	4797.1	4976.9	5142.9	5291.1	5446.9	5576.7
-40°	2179.8	2386.3	3015.6	3585.2	4045.0	4459.9	4620.2	4764.8	4895.0	5012.1	5109.4
-42.5°	2040.1	2147.1	2243.4	2671.4	3191.6	3636.5	3999.3	4325.7	4518.1	4619.6	4703.8
-45°	1874.5	1989.0	2093.3	2178.1	2257.1	2646.4	3054.1	3420.3	3694.0	3922.0	4110.8
-47.5°	1678.4	1807.1	1913.4	2008.4	2092.9	2160.6	2222.2	2323.4	2620.6	2875.3	3085.8
-50°	1474.4	1590.7	1703.9	1810.0	1896.6	1972.1	2040.7	2097.1	2141.8	2180.0	2211.6
-52.5°	1274.2	1378.8	1479.3	1574.2	1665.3	1749.0	1825.0	1883.5	1933.0	1975.3	2010.2
-55°	1108.6	1188.1	1263.0	1345.1	1425.4	1499.2	1566.5	1628.8	1683.3	1729.8	1768.2
-57.5°	937.5	1012.7	1082.8	1147.1	1206.5	1261.0	1317.2	1371.6	1419.3	1459.9	1493.4
-60°	764.6	832.0	896.6	956.9	1012.7	1063.7	1108.6	1148.6	1183.6	1213.4	1237.9
-62.5°	597.1	653.4	710.9	764.6	814.1	859.9	901.7	938.9	971.4	999.1	1021.8
-65°	459.5	503.2	544.3	582.5	618.2	658.9	695.7	728.5	757.1	781.4	801.4
-67.5°	317.7	357.9	395.5	430.5	462.2	490.9	516.8	539.9	560.0	577.1	591.2
-70°	192.9	221.0	247.4	274.2	302.6	328.6	352.0	372.8	390.9	406.4	419.0
-72.5°	99.7	112.0	126.3	147.5	167.1	185.0	201.1	215.4	227.8	238.4	247.1
-75°	47.0	52.3	62.2	71.3	79.8	87.5	94.4	100.6	105.9	110.5	114.2
-77.5°	30.2	32.7	35.1	37.3	39.3	41.2	42.8	44.3	45.6	46.7	47.6
-80°	20.7	21.8	22.7	23.6	24.4	25.2	25.8	26.4	27.0	27.4	27.8
-82.5°	13.8	14.4	14.9	15.3	15.8	16.2	16.5	16.9	17.1	17.4	17.6
-85°	8.8	9.0	9.2	9.4	9.6	9.7	9.9	10.0	10.1	10.2	10.3
-87.5°	4.9	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	5.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731236 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-3S-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°	5.9	6.0	6.0	6.0	6.0	6.0	5.9	5.9	5.9	5.8	5.7
85°	10.3	10.4	10.4	10.4	10.4	10.4	10.3	10.3	10.2	10.1	10.0
82.5°	17.7	17.8	17.9	17.9	17.9	17.8	17.7	17.6	17.4	17.1	16.9
80°	28.0	28.2	28.4	28.4	28.4	28.2	28.0	27.8	27.4	27.0	26.4
77.5°	48.3	48.8	49.1	49.2	49.1	48.8	48.3	47.6	46.7	45.6	44.3
75°	117.1	119.2	120.5	120.9	120.5	119.2	117.1	114.2	110.5	105.9	100.6
72.5°	253.9	258.8	261.7	262.7	261.7	258.8	253.9	247.1	238.4	227.8	215.4
70°	428.9	436.0	440.3	441.7	440.3	436.0	428.9	419.0	406.4	390.9	372.8
67.5°	602.1	610.0	614.7	616.3	614.7	610.0	602.1	591.2	577.1	560.0	539.9
65°	817.0	828.2	835.0	837.2	835.0	828.2	817.0	801.4	781.4	757.1	728.5
62.5°	1039.6	1052.4	1060.0	1062.6	1060.0	1052.4	1039.6	1021.8	999.1	971.4	938.9
60°	1257.1	1270.9	1279.1	1281.9	1279.1	1270.9	1257.1	1237.9	1213.4	1183.6	1148.6
57.5°	1519.6	1538.4	1549.7	1553.5	1549.7	1538.4	1519.6	1493.4	1459.9	1419.3	1371.6
55°	1798.2	1819.8	1832.8	1837.1	1832.8	1819.8	1798.2	1768.2	1729.8	1683.3	1628.8
52.5°	2037.5	2057.1	2069.0	2072.9	2069.0	2057.1	2037.5	2010.2	1975.3	1933.0	1883.5
50°	2236.3	2254.1	2264.8	2268.4	2264.8	2254.1	2236.3	2211.6	2180.0	2141.8	2097.1
47.5°	3251.0	3369.8	3441.4	3465.3	3441.4	3369.8	3251.0	3085.8	2875.3	2620.6	2323.4
45°	4259.1	4365.8	4430.2	4451.7	4430.2	4365.8	4259.1	4110.8	3922.0	3694.0	3420.3
42.5°	4770.0	4817.7	4846.5	4856.1	4846.5	4817.7	4770.0	4703.8	4619.6	4518.1	4325.7
40°	5186.1	5241.3	5274.7	5285.9	5274.7	5241.3	5186.1	5109.4	5012.1	4895.0	4764.8
37.5°	5679.1	5753.0	5797.7	5812.7	5797.7	5753.0	5679.1	5576.7	5446.9	5291.1	5142.9
35°	6318.4	6425.9	6490.9	6512.7	6490.9	6425.9	6318.4	6169.8	5982.0	5770.9	5575.5
32.5°	7380.3	7590.3	7717.6	7760.3	7717.6	7590.3	7380.3	7090.7	6725.6	6387.6	6106.2
30°	9055.7	9416.6	9635.8	9709.3	9635.8	9416.6	9055.7	8559.4	7935.9	7398.0	6854.2
27.5°	13211.2	14349.7	15043.0	15275.8	15043.0	14349.7	13211.2	11651.1	9705.7	8896.7	7974.4
25°	22933.0	25893.3	27701.7	28310.1	27701.7	25893.3	22933.0	18894.3	14674.5	12148.4	9561.0
22.5°	39595.8	44922.7	48190.7	49292.6	48190.7	44922.7	39595.8	32370.3	25283.8	18801.7	13667.6
20°	62823.2	70928.7	75930.3	77622.1	75930.3	70928.7	62823.2	51913.1	41331.9	29869.4	21339.8
17.5°	90633.9	101157.3	107704.2	109928.7	107704.2	101157.3	90633.9	76741.5	61854.1	45978.0	32060.3
15°	119417.7	131014.8	138316.6	140814.5	138316.6	131014.8	119417.7	103934.4	84945.5	65263.9	45978.0
12.5°	147175.5	163372.6	174241.9	177990.7	174241.9	163372.6	147175.5	128980.1	108546.4	84945.5	61854.1
10°	178343.7	199023.6	214202.2	219664.8	214202.2	199023.6	178343.7	153356.4	128980.1	103934.4	76741.5
7.5°	209061.3	236978.6	252421.1	257005.9	252421.1	236978.6	209061.3	178343.7	147175.5	119417.7	90633.9
5°	236978.6	261931.4	276214.6	281156.0	276214.6	261931.4	236978.6	199023.6	163372.6	131014.8	101157.3
2.5°	252421.1	276214.6	296040.9	309494.4	296040.9	276214.6	252421.1	214202.2	174241.9	138316.6	107704.2
0°	257005.9	281156.0	309494.4	328372.7	309494.4	281156.0	257005.9	219664.8	177990.7	140814.5	109928.7
-2.5°	252421.1	276214.6	296040.9	309494.4	296040.9	276214.6	252421.1	214202.2	174241.9	138316.6	107704.2
-5°	236978.6	261931.4	276214.6	281156.0	276214.6	261931.4	236978.6	199023.6	163372.6	131014.8	101157.3
-7.5°	209061.3	236978.6	252421.1	257005.9	252421.1	236978.6	209061.3	178343.7	147175.5	119417.7	90633.9
-10°	178343.7	199023.6	214202.2	219664.8	214202.2	199023.6	178343.7	153356.4	128980.1	103934.4	76741.5
-12.5°	147175.5	163372.6	174241.9	177990.7	174241.9	163372.6	147175.5	128980.1	108546.4	84945.5	61854.1
-15°	119417.7	131014.8	138316.6	140814.5	138316.6	131014.8	119417.7	103934.4	84945.5	65263.9	45978.0
-17.5°	90633.9	101157.3	107704.2	109928.7	107704.2	101157.3	90633.9	76741.5	61854.1	45978.0	32060.3
-20°	62823.2	70928.7	75930.3	77622.1	75930.3	70928.7	62823.2	51913.1	41331.9	29869.4	21339.8



REPORT NUMBER: P731236 (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°	39595.8	44922.7	48190.7	49292.6	48190.7	44922.7	39595.8	32370.3	25283.8	18801.7	13667.6
-25°	22933.0	25893.3	27701.7	28310.1	27701.7	25893.3	22933.0	18894.3	14674.5	12148.4	9561.0
-27.5°	13211.2	14349.7	15043.0	15275.8	15043.0	14349.7	13211.2	11651.1	9705.7	8896.7	7974.4
-30°	9055.7	9416.6	9635.8	9709.3	9635.8	9416.6	9055.7	8559.4	7935.9	7398.0	6854.2
-32.5°	7380.3	7590.3	7717.6	7760.3	7717.6	7590.3	7380.3	7090.7	6725.6	6387.6	6106.2
-35°	6318.4	6425.9	6490.9	6512.7	6490.9	6425.9	6318.4	6169.8	5982.0	5770.9	5575.5
-37.5°	5679.1	5753.0	5797.7	5812.7	5797.7	5753.0	5679.1	5576.7	5446.9	5291.1	5142.9
-40°	5186.1	5241.3	5274.7	5285.9	5274.7	5241.3	5186.1	5109.4	5012.1	4895.0	4764.8
-42.5°	4770.0	4817.7	4846.5	4856.1	4846.5	4817.7	4770.0	4703.8	4619.6	4518.1	4325.7
-45°	4259.1	4365.8	4430.2	4451.7	4430.2	4365.8	4259.1	4110.8	3922.0	3694.0	3420.3
-47.5°	3251.0	3369.8	3441.4	3465.3	3441.4	3369.8	3251.0	3085.8	2875.3	2620.6	2323.4
-50°	2236.3	2254.1	2264.8	2268.4	2264.8	2254.1	2236.3	2211.6	2180.0	2141.8	2097.1
-52.5°	2037.5	2057.1	2069.0	2072.9	2069.0	2057.1	2037.5	2010.2	1975.3	1933.0	1883.5
-55°	1798.2	1819.8	1832.8	1837.1	1832.8	1819.8	1798.2	1768.2	1729.8	1683.3	1628.8
-57.5°	1519.6	1538.4	1549.7	1553.5	1549.7	1538.4	1519.6	1493.4	1459.9	1419.3	1371.6
-60°	1257.1	1270.9	1279.1	1281.9	1279.1	1270.9	1257.1	1237.9	1213.4	1183.6	1148.6
-62.5°	1039.6	1052.4	1060.0	1062.6	1060.0	1052.4	1039.6	1021.8	999.1	971.4	938.9
-65°	817.0	828.2	835.0	837.2	835.0	828.2	817.0	801.4	781.4	757.1	728.5
-67.5°	602.1	610.0	614.7	616.3	614.7	610.0	602.1	591.2	577.1	560.0	539.9
-70°	428.9	436.0	440.3	441.7	440.3	436.0	428.9	419.0	406.4	390.9	372.8
-72.5°	253.9	258.8	261.7	262.7	261.7	258.8	253.9	247.1	238.4	227.8	215.4
-75°	117.1	119.2	120.5	120.9	120.5	119.2	117.1	114.2	110.5	105.9	100.6
-77.5°	48.3	48.8	49.1	49.2	49.1	48.8	48.3	47.6	46.7	45.6	44.3
-80°	28.0	28.2	28.4	28.4	28.4	28.2	28.0	27.8	27.4	27.0	26.4
-82.5°	17.7	17.8	17.9	17.9	17.9	17.8	17.7	17.6	17.4	17.1	16.9
-85°	10.3	10.4	10.4	10.4	10.4	10.4	10.3	10.3	10.2	10.1	10.0
-87.5°	5.9	6.0	6.0	6.0	6.0	6.0	5.9	5.9	5.9	5.8	5.7
-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°	5.6	5.5	5.4	5.3	5.2	5.1	4.9	4.8	4.6	4.4	4.2
85°	9.9	9.7	9.6	9.4	9.2	9.0	8.8	8.6	8.3	8.1	7.8
82.5°	16.5	16.2	15.8	15.3	14.9	14.4	13.8	13.2	12.6	12.0	11.3
80°	25.8	25.2	24.4	23.6	22.7	21.8	20.7	19.7	18.5	17.5	16.6
77.5°	42.8	41.2	39.3	37.3	35.1	32.7	30.2	27.9	26.5	25.0	23.4
75°	94.4	87.5	79.8	71.3	62.2	52.3	47.0	43.8	40.3	36.7	32.9
72.5°	201.1	185.0	167.1	147.5	126.3	112.0	99.7	86.5	72.7	58.1	47.3
70°	352.0	328.6	302.6	274.2	247.4	221.0	192.9	163.1	131.6	109.6	92.1
67.5°	516.8	490.9	462.2	430.5	395.5	357.9	317.7	275.2	237.0	199.6	160.6
65°	695.7	658.9	618.2	582.5	544.3	503.2	459.5	412.3	362.2	309.6	256.3
62.5°	901.7	859.9	814.1	764.6	710.9	653.4	597.1	545.7	491.6	434.8	374.2
60°	1108.6	1063.7	1012.7	956.9	896.6	832.0	764.6	693.2	618.2	555.7	490.9
57.5°	1317.2	1261.0	1206.5	1147.1	1082.8	1012.7	937.5	858.0	775.8	690.3	604.4
55°	1566.5	1499.2	1425.4	1345.1	1263.0	1188.1	1108.6	1023.7	933.2	838.7	742.4
52.5°	1825.0	1749.0	1665.3	1574.2	1479.3	1378.8	1274.2	1183.6	1088.6	987.6	882.0
50°	2040.7	1972.1	1896.6	1810.0	1703.9	1590.7	1474.4	1353.7	1237.9	1131.8	1020.6
47.5°	2222.2	2160.6	2092.9	2008.4	1913.4	1807.1	1678.4	1543.8	1408.7	1270.9	1153.5
45°	3054.1	2646.4	2257.1	2178.1	2093.3	1989.0	1874.5	1737.7	1587.3	1436.4	1281.9
42.5°	3999.3	3636.5	3191.6	2671.4	2243.4	2147.1	2040.1	1912.3	1767.6	1602.0	1436.4
40°	4620.2	4459.9	4045.0	3585.2	3015.6	2386.3	2179.8	2066.0	1925.0	1767.6	1587.3
37.5°	4976.9	4797.1	4609.2	4343.5	3819.7	3225.1	2523.3	2190.7	2066.0	1912.3	1737.7
35°	5355.8	5145.4	4931.2	4710.8	4481.9	3938.3	3295.4	2523.3	2179.8	2040.1	1874.5
32.5°	5796.4	5536.0	5260.3	5015.3	4762.2	4506.9	3938.3	3225.1	2386.3	2147.1	1989.0
30°	6363.9	5991.9	5646.3	5326.0	5043.6	4762.2	4481.9	3819.7	3015.6	2243.4	2093.3
27.5°	7242.2	6529.6	6094.0	5683.4	5326.0	5015.3	4710.8	4343.5	3585.2	2671.4	2178.1
25°	8455.4	7440.0	6624.8	6094.0	5646.3	5260.3	4931.2	4609.2	4045.0	3191.6	2257.1
22.5°	10256.7	8618.1	7440.0	6529.6	5991.9	5536.0	5145.4	4797.1	4459.9	3636.5	2646.4
20°	14182.8	10256.7	8455.4	7242.2	6363.9	5796.4	5355.8	4976.9	4620.2	3999.3	3054.1
17.5°	21339.8	13667.6	9561.0	7974.4	6854.2	6106.2	5575.5	5142.9	4764.8	4325.7	3420.3
15°	29869.4	18801.7	12148.4	8896.7	7398.0	6387.6	5770.9	5291.1	4895.0	4518.1	3694.0
12.5°	41331.9	25283.8	14674.5	9705.7	7935.9	6725.6	5982.0	5446.9	5012.1	4619.6	3922.0
10°	51913.1	32370.3	18894.3	11651.1	8559.4	7090.7	6169.8	5576.7	5109.4	4703.8	4110.8
7.5°	62823.2	39595.8	22933.0	13211.2	9055.7	7380.3	6318.4	5679.1	5186.1	4770.0	4259.1
5°	70928.7	44922.7	25893.3	14349.7	9416.6	7590.3	6425.9	5753.0	5241.3	4817.7	4365.8
2.5°	75930.3	48190.7	27701.7	15043.0	9635.8	7717.6	6490.9	5797.7	5274.7	4846.5	4430.2
0°	77622.1	49292.6	28310.1	15275.8	9709.3	7760.3	6512.7	5812.7	5285.9	4856.1	4451.7
-2.5°	75930.3	48190.7	27701.7	15043.0	9635.8	7717.6	6490.9	5797.7	5274.7	4846.5	4430.2
-5°	70928.7	44922.7	25893.3	14349.7	9416.6	7590.3	6425.9	5753.0	5241.3	4817.7	4365.8
-7.5°	62823.2	39595.8	22933.0	13211.2	9055.7	7380.3	6318.4	5679.1	5186.1	4770.0	4259.1
-10°	51913.1	32370.3	18894.3	11651.1	8559.4	7090.7	6169.8	5576.7	5109.4	4703.8	4110.8
-12.5°	41331.9	25283.8	14674.5	9705.7	7935.9	6725.6	5982.0	5446.9	5012.1	4619.6	3922.0
-15°	29869.4	18801.7	12148.4	8896.7	7398.0	6387.6	5770.9	5291.1	4895.0	4518.1	3694.0
-17.5°	21339.8	13667.6	9561.0	7974.4	6854.2	6106.2	5575.5	5142.9	4764.8	4325.7	3420.3
-20°	14182.8	10256.7	8455.4	7242.2	6363.9	5796.4	5355.8	4976.9	4620.2	3999.3	3054.1



REPORT NUMBER: P731236 (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°	10256.7	8618.1	7440.0	6529.6	5991.9	5536.0	5145.4	4797.1	4459.9	3636.5	2646.4
-25°	8455.4	7440.0	6624.8	6094.0	5646.3	5260.3	4931.2	4609.2	4045.0	3191.6	2257.1
-27.5°	7242.2	6529.6	6094.0	5683.4	5326.0	5015.3	4710.8	4343.5	3585.2	2671.4	2178.1
-30°	6363.9	5991.9	5646.3	5326.0	5043.6	4762.2	4481.9	3819.7	3015.6	2243.4	2093.3
-32.5°	5796.4	5536.0	5260.3	5015.3	4762.2	4506.9	3938.3	3225.1	2386.3	2147.1	1989.0
-35°	5355.8	5145.4	4931.2	4710.8	4481.9	3938.3	3295.4	2523.3	2179.8	2040.1	1874.5
-37.5°	4976.9	4797.1	4609.2	4343.5	3819.7	3225.1	2523.3	2190.7	2066.0	1912.3	1737.7
-40°	4620.2	4459.9	4045.0	3585.2	3015.6	2386.3	2179.8	2066.0	1925.0	1767.6	1587.3
-42.5°	3999.3	3636.5	3191.6	2671.4	2243.4	2147.1	2040.1	1912.3	1767.6	1602.0	1436.4
-45°	3054.1	2646.4	2257.1	2178.1	2093.3	1989.0	1874.5	1737.7	1587.3	1436.4	1281.9
-47.5°	2222.2	2160.6	2092.9	2008.4	1913.4	1807.1	1678.4	1543.8	1408.7	1270.9	1153.5
-50°	2040.7	1972.1	1896.6	1810.0	1703.9	1590.7	1474.4	1353.7	1237.9	1131.8	1020.6
-52.5°	1825.0	1749.0	1665.3	1574.2	1479.3	1378.8	1274.2	1183.6	1088.6	987.6	882.0
-55°	1566.5	1499.2	1425.4	1345.1	1263.0	1188.1	1108.6	1023.7	933.2	838.7	742.4
-57.5°	1317.2	1261.0	1206.5	1147.1	1082.8	1012.7	937.5	858.0	775.8	690.3	604.4
-60°	1108.6	1063.7	1012.7	956.9	896.6	832.0	764.6	693.2	618.2	555.7	490.9
-62.5°	901.7	859.9	814.1	764.6	710.9	653.4	597.1	545.7	491.6	434.8	374.2
-65°	695.7	658.9	618.2	582.5	544.3	503.2	459.5	412.3	362.2	309.6	256.3
-67.5°	516.8	490.9	462.2	430.5	395.5	357.9	317.7	275.2	237.0	199.6	160.6
-70°	352.0	328.6	302.6	274.2	247.4	221.0	192.9	163.1	131.6	109.6	92.1
-72.5°	201.1	185.0	167.1	147.5	126.3	112.0	99.7	86.5	72.7	58.1	47.3
-75°	94.4	87.5	79.8	71.3	62.2	52.3	47.0	43.8	40.3	36.7	32.9
-77.5°	42.8	41.2	39.3	37.3	35.1	32.7	30.2	27.9	26.5	25.0	23.4
-80°	25.8	25.2	24.4	23.6	22.7	21.8	20.7	19.7	18.5	17.5	16.6
-82.5°	16.5	16.2	15.8	15.3	14.9	14.4	13.8	13.2	12.6	12.0	11.3
-85°	9.9	9.7	9.6	9.4	9.2	9.0	8.8	8.6	8.3	8.1	7.8
-87.5°	5.6	5.5	5.4	5.3	5.2	5.1	4.9	4.8	4.6	4.4	4.2
-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: P731236 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-3S-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	3.4	3.2	3.0	2.8	2.5	2.3	2.1	1.8
85°	7.5	7.3	7.0	6.6	6.3	6.0	5.5	5.1	4.6	4.1	3.6
82.5°	10.6	10.1	9.6	9.2	8.7	8.2	7.7	7.2	6.6	6.1	5.4
80°	15.6	14.6	13.6	12.5	11.5	10.4	9.7	9.0	8.3	7.6	6.9
77.5°	21.7	20.0	18.2	16.8	15.4	14.0	12.6	11.1	10.0	9.1	8.2
75°	29.0	26.6	24.5	22.3	20.0	17.7	16.0	14.2	12.5	10.6	9.5
72.5°	42.7	37.9	33.0	28.1	25.5	22.7	19.9	17.3	15.2	13.1	11.0
70°	73.9	54.9	45.2	39.3	33.3	27.8	24.6	21.3	18.0	15.6	13.1
67.5°	120.4	99.1	77.1	54.3	43.9	37.0	29.9	25.5	21.8	18.0	15.2
65°	211.1	164.2	118.3	93.0	67.1	46.7	38.8	30.8	25.5	21.3	17.3
62.5°	311.2	249.4	196.1	141.2	102.7	73.5	47.6	38.8	29.9	24.6	19.9
60°	423.3	352.0	278.5	215.4	154.0	105.9	73.5	46.7	37.0	27.8	22.7
57.5°	531.4	456.0	376.7	294.9	221.8	154.0	102.7	67.1	43.9	33.3	25.5
55°	642.7	555.9	472.2	385.0	294.9	215.4	141.2	93.0	54.3	39.3	28.1
52.5°	774.0	663.6	564.1	472.2	376.7	278.5	196.1	118.3	77.1	45.2	33.0
50°	903.8	784.6	663.6	555.9	456.0	352.0	249.4	164.2	99.1	54.9	37.9
47.5°	1031.6	903.8	774.0	642.7	531.4	423.3	311.2	211.1	120.4	73.9	42.7
45°	1153.5	1020.6	882.0	742.4	604.4	490.9	374.2	256.3	160.6	92.1	47.3
42.5°	1270.9	1131.8	987.6	838.7	690.3	555.7	434.8	309.6	199.6	109.6	58.1
40°	1408.7	1237.9	1088.6	933.2	775.8	618.2	491.6	362.2	237.0	131.6	72.7
37.5°	1543.8	1353.7	1183.6	1023.7	858.0	693.2	545.7	412.3	275.2	163.1	86.5
35°	1678.4	1474.4	1274.2	1108.6	937.5	764.6	597.1	459.5	317.7	192.9	99.7
32.5°	1807.1	1590.7	1378.8	1188.1	1012.7	832.0	653.4	503.2	357.9	221.0	112.0
30°	1913.4	1703.9	1479.3	1263.0	1082.8	896.6	710.9	544.3	395.5	247.4	126.3
27.5°	2008.4	1810.0	1574.2	1345.1	1147.1	956.9	764.6	582.5	430.5	274.2	147.5
25°	2092.9	1896.6	1665.3	1425.4	1206.5	1012.7	814.1	618.2	462.2	302.6	167.1
22.5°	2160.6	1972.1	1749.0	1499.2	1261.0	1063.7	859.9	658.9	490.9	328.6	185.0
20°	2222.2	2040.7	1825.0	1566.5	1317.2	1108.6	901.7	695.7	516.8	352.0	201.1
17.5°	2323.4	2097.1	1883.5	1628.8	1371.6	1148.6	938.9	728.5	539.9	372.8	215.4
15°	2620.6	2141.8	1933.0	1683.3	1419.3	1183.6	971.4	757.1	560.0	390.9	227.8
12.5°	2875.3	2180.0	1975.3	1729.8	1459.9	1213.4	999.1	781.4	577.1	406.4	238.4
10°	3085.8	2211.6	2010.2	1768.2	1493.4	1237.9	1021.8	801.4	591.2	419.0	247.1
7.5°	3251.0	2236.3	2037.5	1798.2	1519.6	1257.1	1039.6	817.0	602.1	428.9	253.9
5°	3369.8	2254.1	2057.1	1819.8	1538.4	1270.9	1052.4	828.2	610.0	436.0	258.8
2.5°	3441.4	2264.8	2069.0	1832.8	1549.7	1279.1	1060.0	835.0	614.7	440.3	261.7
0°	3465.3	2268.4	2072.9	1837.1	1553.5	1281.9	1062.6	837.2	616.3	441.7	262.7
-2.5°	3441.4	2264.8	2069.0	1832.8	1549.7	1279.1	1060.0	835.0	614.7	440.3	261.7
-5°	3369.8	2254.1	2057.1	1819.8	1538.4	1270.9	1052.4	828.2	610.0	436.0	258.8
-7.5°	3251.0	2236.3	2037.5	1798.2	1519.6	1257.1	1039.6	817.0	602.1	428.9	253.9
-10°	3085.8	2211.6	2010.2	1768.2	1493.4	1237.9	1021.8	801.4	591.2	419.0	247.1
-12.5°	2875.3	2180.0	1975.3	1729.8	1459.9	1213.4	999.1	781.4	577.1	406.4	238.4
-15°	2620.6	2141.8	1933.0	1683.3	1419.3	1183.6	971.4	757.1	560.0	390.9	227.8
-17.5°	2323.4	2097.1	1883.5	1628.8	1371.6	1148.6	938.9	728.5	539.9	372.8	215.4
-20°	2222.2	2040.7	1825.0	1566.5	1317.2	1108.6	901.7	695.7	516.8	352.0	201.1



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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°	2160.6	1972.1	1749.0	1499.2	1261.0	1063.7	859.9	658.9	490.9	328.6	185.0
-25°	2092.9	1896.6	1665.3	1425.4	1206.5	1012.7	814.1	618.2	462.2	302.6	167.1
-27.5°	2008.4	1810.0	1574.2	1345.1	1147.1	956.9	764.6	582.5	430.5	274.2	147.5
-30°	1913.4	1703.9	1479.3	1263.0	1082.8	896.6	710.9	544.3	395.5	247.4	126.3
-32.5°	1807.1	1590.7	1378.8	1188.1	1012.7	832.0	653.4	503.2	357.9	221.0	112.0
-35°	1678.4	1474.4	1274.2	1108.6	937.5	764.6	597.1	459.5	317.7	192.9	99.7
-37.5°	1543.8	1353.7	1183.6	1023.7	858.0	693.2	545.7	412.3	275.2	163.1	86.5
-40°	1408.7	1237.9	1088.6	933.2	775.8	618.2	491.6	362.2	237.0	131.6	72.7
-42.5°	1270.9	1131.8	987.6	838.7	690.3	555.7	434.8	309.6	199.6	109.6	58.1
-45°	1153.5	1020.6	882.0	742.4	604.4	490.9	374.2	256.3	160.6	92.1	47.3
-47.5°	1031.6	903.8	774.0	642.7	531.4	423.3	311.2	211.1	120.4	73.9	42.7
-50°	903.8	784.6	663.6	555.9	456.0	352.0	249.4	164.2	99.1	54.9	37.9
-52.5°	774.0	663.6	564.1	472.2	376.7	278.5	196.1	118.3	77.1	45.2	33.0
-55°	642.7	555.9	472.2	385.0	294.9	215.4	141.2	93.0	54.3	39.3	28.1
-57.5°	531.4	456.0	376.7	294.9	221.8	154.0	102.7	67.1	43.9	33.3	25.5
-60°	423.3	352.0	278.5	215.4	154.0	105.9	73.5	46.7	37.0	27.8	22.7
-62.5°	311.2	249.4	196.1	141.2	102.7	73.5	47.6	38.8	29.9	24.6	19.9
-65°	211.1	164.2	118.3	93.0	67.1	46.7	38.8	30.8	25.5	21.3	17.3
-67.5°	120.4	99.1	77.1	54.3	43.9	37.0	29.9	25.5	21.8	18.0	15.2
-70°	73.9	54.9	45.2	39.3	33.3	27.8	24.6	21.3	18.0	15.6	13.1
-72.5°	42.7	37.9	33.0	28.1	25.5	22.7	19.9	17.3	15.2	13.1	11.0
-75°	29.0	26.6	24.5	22.3	20.0	17.7	16.0	14.2	12.5	10.6	9.5
-77.5°	21.7	20.0	18.2	16.8	15.4	14.0	12.6	11.1	10.0	9.1	8.2
-80°	15.6	14.6	13.6	12.5	11.5	10.4	9.7	9.0	8.3	7.6	6.9
-82.5°	10.6	10.1	9.6	9.2	8.7	8.2	7.7	7.2	6.6	6.1	5.4
-85°	7.5	7.3	7.0	6.6	6.3	6.0	5.5	5.1	4.6	4.1	3.6
-87.5°	4.1	3.9	3.7	3.4	3.2	3.0	2.8	2.5	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	1.0	0.8	0.5	0.3	0.0
85°	3.1	2.6	2.1	1.6	1.0	0.5	0.0
82.5°	4.6	3.9	3.1	2.3	1.6	0.8	0.0
80°	6.1	5.2	4.1	3.1	2.1	1.0	0.0
77.5°	7.3	6.3	5.2	3.9	2.6	1.3	0.0
75°	8.4	7.3	6.1	4.6	3.1	1.6	0.0
72.5°	9.5	8.2	6.9	5.4	3.6	1.8	0.0
70°	10.6	9.1	7.6	6.1	4.1	2.1	0.0
67.5°	12.5	10.0	8.3	6.6	4.6	2.3	0.0
65°	14.2	11.1	9.0	7.2	5.1	2.5	0.0
62.5°	16.0	12.6	9.7	7.7	5.5	2.8	0.0
60°	17.7	14.0	10.4	8.2	6.0	3.0	0.0
57.5°	20.0	15.4	11.5	8.7	6.3	3.2	0.0
55°	22.3	16.8	12.5	9.2	6.6	3.4	0.0
52.5°	24.5	18.2	13.6	9.6	7.0	3.7	0.0
50°	26.6	20.0	14.6	10.1	7.3	3.9	0.0
47.5°	29.0	21.7	15.6	10.6	7.5	4.1	0.0
45°	32.9	23.4	16.6	11.3	7.8	4.2	0.0
42.5°	36.7	25.0	17.5	12.0	8.1	4.4	0.0
40°	40.3	26.5	18.5	12.6	8.3	4.6	0.0
37.5°	43.8	27.9	19.7	13.2	8.6	4.8	0.0
35°	47.0	30.2	20.7	13.8	8.8	4.9	0.0
32.5°	52.3	32.7	21.8	14.4	9.0	5.1	0.0
30°	62.2	35.1	22.7	14.9	9.2	5.2	0.0
27.5°	71.3	37.3	23.6	15.3	9.4	5.3	0.0
25°	79.8	39.3	24.4	15.8	9.6	5.4	0.0
22.5°	87.5	41.2	25.2	16.2	9.7	5.5	0.0
20°	94.4	42.8	25.8	16.5	9.9	5.6	0.0
17.5°	100.6	44.3	26.4	16.9	10.0	5.7	0.0
15°	105.9	45.6	27.0	17.1	10.1	5.8	0.0
12.5°	110.5	46.7	27.4	17.4	10.2	5.9	0.0
10°	114.2	47.6	27.8	17.6	10.3	5.9	0.0
7.5°	117.1	48.3	28.0	17.7	10.3	5.9	0.0
5°	119.2	48.8	28.2	17.8	10.4	6.0	0.0
2.5°	120.5	49.1	28.4	17.9	10.4	6.0	0.0
0°	120.9	49.2	28.4	17.9	10.4	6.0	0.0
-2.5°	120.5	49.1	28.4	17.9	10.4	6.0	0.0
-5°	119.2	48.8	28.2	17.8	10.4	6.0	0.0
-7.5°	117.1	48.3	28.0	17.7	10.3	5.9	0.0
-10°	114.2	47.6	27.8	17.6	10.3	5.9	0.0
-12.5°	110.5	46.7	27.4	17.4	10.2	5.9	0.0
-15°	105.9	45.6	27.0	17.1	10.1	5.8	0.0
-17.5°	100.6	44.3	26.4	16.9	10.0	5.7	0.0
-20°	94.4	42.8	25.8	16.5	9.9	5.6	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	87.5	41.2	25.2	16.2	9.7	5.5	0.0
-25°	79.8	39.3	24.4	15.8	9.6	5.4	0.0
-27.5°	71.3	37.3	23.6	15.3	9.4	5.3	0.0
-30°	62.2	35.1	22.7	14.9	9.2	5.2	0.0
-32.5°	52.3	32.7	21.8	14.4	9.0	5.1	0.0
-35°	47.0	30.2	20.7	13.8	8.8	4.9	0.0
-37.5°	43.8	27.9	19.7	13.2	8.6	4.8	0.0
-40°	40.3	26.5	18.5	12.6	8.3	4.6	0.0
-42.5°	36.7	25.0	17.5	12.0	8.1	4.4	0.0
-45°	32.9	23.4	16.6	11.3	7.8	4.2	0.0
-47.5°	29.0	21.7	15.6	10.6	7.5	4.1	0.0
-50°	26.6	20.0	14.6	10.1	7.3	3.9	0.0
-52.5°	24.5	18.2	13.6	9.6	7.0	3.7	0.0
-55°	22.3	16.8	12.5	9.2	6.6	3.4	0.0
-57.5°	20.0	15.4	11.5	8.7	6.3	3.2	0.0
-60°	17.7	14.0	10.4	8.2	6.0	3.0	0.0
-62.5°	16.0	12.6	9.7	7.7	5.5	2.8	0.0
-65°	14.2	11.1	9.0	7.2	5.1	2.5	0.0
-67.5°	12.5	10.0	8.3	6.6	4.6	2.3	0.0
-70°	10.6	9.1	7.6	6.1	4.1	2.1	0.0
-72.5°	9.5	8.2	6.9	5.4	3.6	1.8	0.0
-75°	8.4	7.3	6.1	4.6	3.1	1.6	0.0
-77.5°	7.3	6.3	5.2	3.9	2.6	1.3	0.0
-80°	6.1	5.2	4.1	3.1	2.1	1.0	0.0
-82.5°	4.6	3.9	3.1	2.3	1.6	0.8	0.0
-85°	3.1	2.6	2.1	1.6	1.0	0.5	0.0
-87.5°	1.6	1.3	1.0	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

