

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: P731639 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-80-7F-CV2**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731639 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-43)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680N-40-80-7F-CV2  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 7F BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

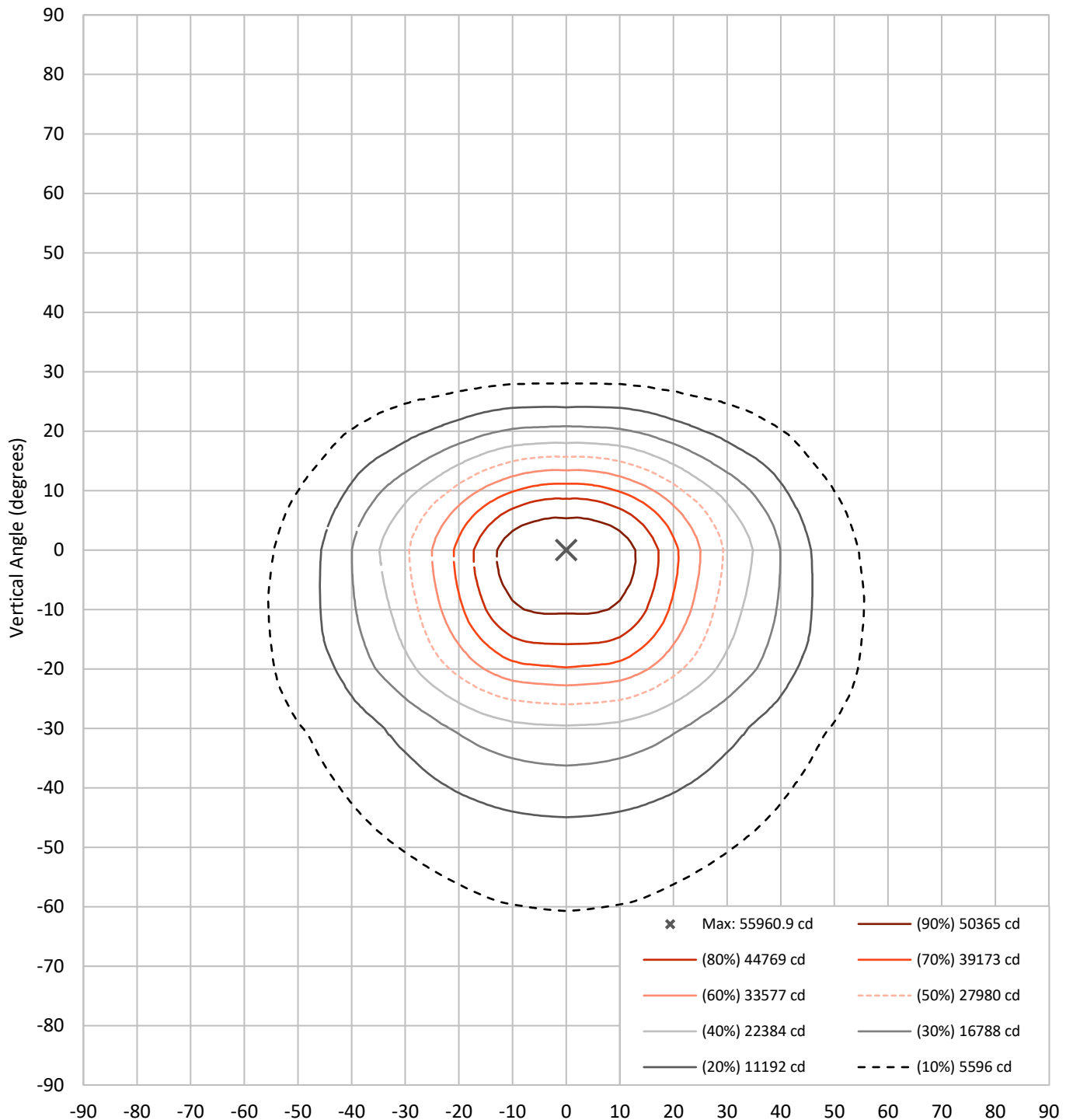
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	48959.2 lumens	Max Intensity:	55960.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	70.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	58.6°H x 41.6°V	Field Angle (10%):	109°H x 88.8°V
Beam Lumens:	23734.9 lumens	Field Lumens:	44466.5 lumens
Beam Efficiency:	48.5%	Field Efficiency:	90.8%

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





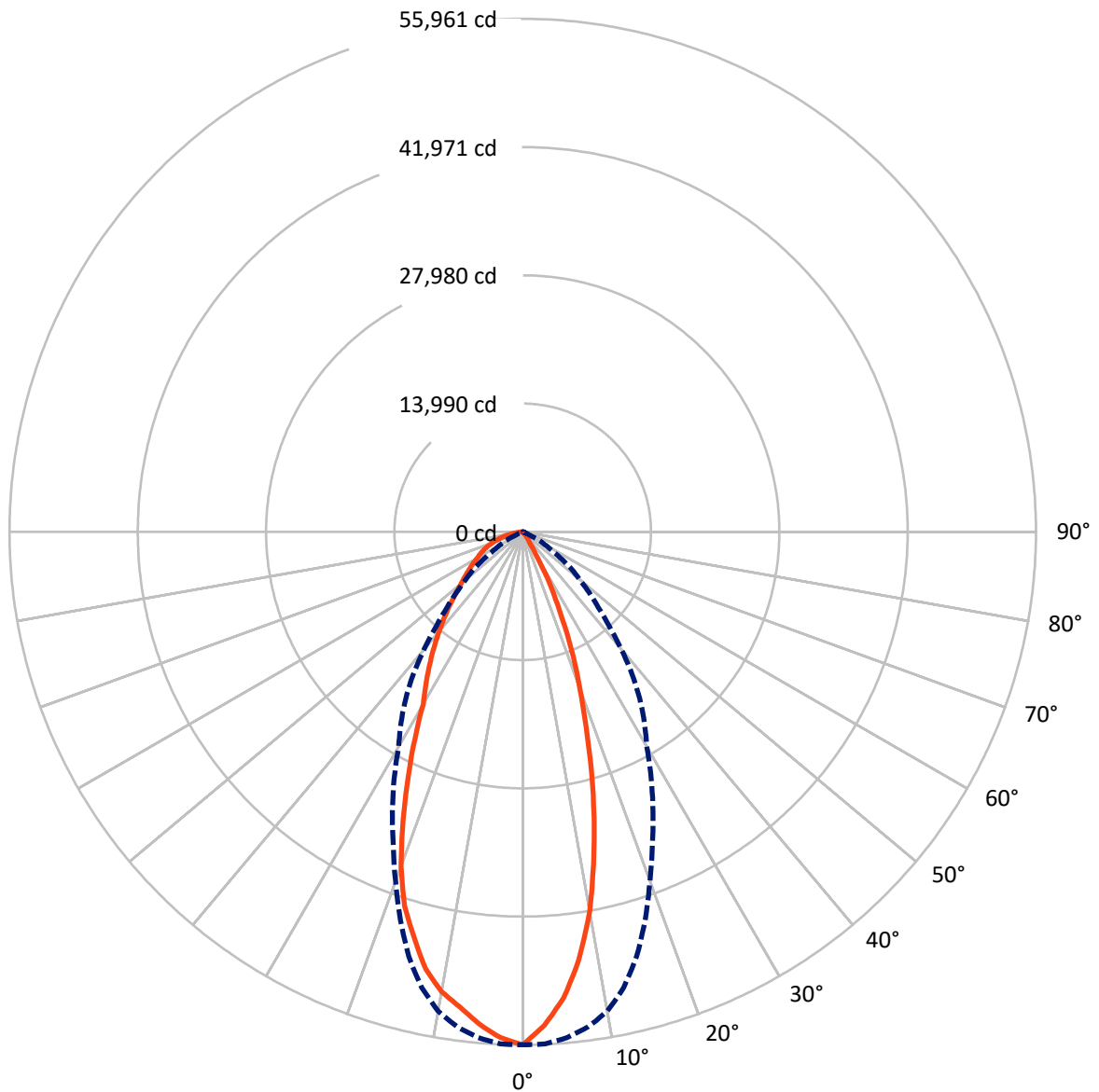
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### Lumen Table

90	0.4	2.4	5.8	4.2	3.3	4.2	5.8	2.4	0.4							
80	0.4	2.4	5.8	4.2	3.3	4.2	5.8	2.4	0.4							
70	0.5	0.7	1.6	2.4	1.8	0.9	0.7	0.6	0.6	0.7	0.9	1.8	2.4	1.6	0.7	0.5
60		0.7	1.1	1.2	1.0	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.2	1.1	0.7	
50	0.7	0.7	1.4	2.4	3.3	4.2	5.1	5.7	5.7	5.1	4.2	3.3	2.4	1.4	0.7	0.7
40		1.1	5.1	11.8	19.3	25.3	33.4	38.1	38.1	33.4	25.3	19.3	11.8	5.1	1.1	
30	1.2	2.9	18.2	53.5	110.8	179.3	260.0	303.4	303.4	260.0	179.3	110.8	53.5	18.2	2.9	1.2
20		6.8	44.8	133.5	294.5	497.2	733.4	887.0	887.0	733.4	497.2	294.5	133.5	44.8	6.8	
10	2.9	13.2	78.8	227.2	491.4	832.7	1242.2	1499.5	1499.5	1242.2	832.7	491.4	227.2	78.8	13.2	2.9
0		21.6	101.2	261.4	536.3	908.9	1368.6	1615.6	1615.6	1368.6	908.9	536.3	261.4	101.2	21.6	
-10	6.8	25.2	101.1	244.8	475.4	790.2	1164.7	1369.5	1369.5	1164.7	790.2	475.4	244.8	101.1	25.2	6.8
-20		23.9	83.1	184.4	346.6	552.8	770.7	889.2	889.2	770.7	552.8	346.6	184.4	83.1	23.9	
-30	7.9	21.6	60.9	127.3	226.5	348.8	463.8	528.8	528.8	463.8	348.8	226.5	127.3	60.9	21.6	7.9
-40		17.5	44.5	89.6	155.4	231.6	297.2	335.3	335.3	297.2	231.6	155.4	89.6	44.5	17.5	
-50	5.3	13.1	31.2	60.1	100.8	147.5	189.5	212.6	212.6	189.5	147.5	100.8	60.1	31.2	13.1	5.3
-60		8.9	21.6	41.1	66.6	96.0	124.0	139.3	139.3	124.0	96.0	66.6	41.1	21.6	8.9	
-70	1.5	1.5	20.5	73.1	139.9	172.0	139.9	73.1	20.5	1.5						
-80		1.5	20.5	73.1	139.9	172.0	139.9	73.1	20.5	1.5						
-90	1.5	20.5	73.1	139.9	172.0	139.9	73.1	20.5	1.5							

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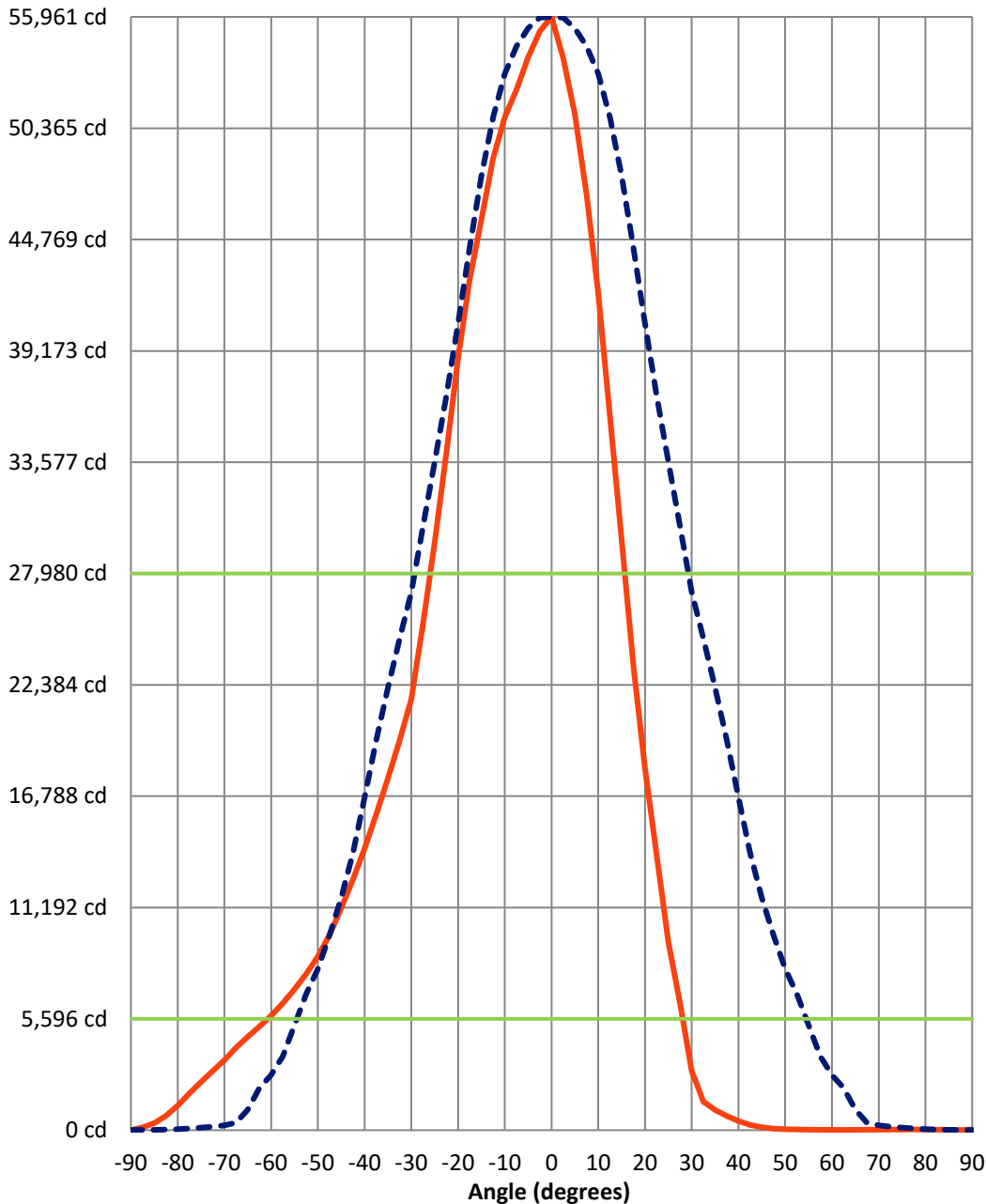
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 58.6°  
 V Angle: 41.6°  
 Lumens: 23734.9  
 Efficiency: 48.5%

**Field:**  
 H Angle: 109°  
 V Angle: 88.8°  
 Lumens: 44466.5  
 Efficiency: 90.8%

**Spill:**  
 Lumens: 4492.7  
 Efficiency: 9.2%

— 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°	7.9	8.9	9.8	10.3	10.8	11.3	11.8	12.3	12.8	13.3	13.8
87.5°	7.9	8.2	8.6	9.1	9.8	10.5	11.4	11.7	11.9	12.0	12.0
85°	7.9	8.5	9.3	10.3	11.6	13.2	15.0	15.6	15.9	16.2	16.2
82.5°	7.9	8.8	9.9	11.5	13.5	15.8	18.5	19.4	20.0	21.3	23.9
80°	7.9	9.1	10.6	12.7	15.3	18.3	21.5	22.1	24.2	28.0	33.5
77.5°	7.9	9.4	11.3	13.8	17.0	20.0	21.9	24.0	28.1	34.3	40.8
75°	7.9	9.7	11.9	15.0	18.5	20.1	22.3	25.7	31.5	36.7	42.0
72.5°	7.9	9.9	12.5	16.1	18.4	20.2	22.6	27.0	32.3	37.7	43.1
70°	7.9	10.2	13.2	16.9	18.2	20.2	22.9	27.7	33.2	38.6	44.7
67.5°	7.9	10.5	13.8	16.7	18.1	20.2	23.7	28.3	33.9	40.2	46.5
65°	7.9	10.8	14.3	16.4	17.9	20.5	24.4	28.9	35.2	41.6	48.7
62.5°	7.9	11.0	14.9	16.2	17.7	21.2	25.1	29.7	36.4	43.3	52.3
60°	7.9	11.3	15.4	15.9	17.4	21.8	25.9	30.7	37.5	46.2	55.6
57.5°	7.9	11.5	15.3	15.6	17.9	22.5	27.1	31.7	39.5	48.9	57.3
55°	7.9	11.7	15.2	15.3	18.4	23.1	28.3	33.0	41.6	51.0	58.2
52.5°	7.9	11.9	15.2	15.0	18.9	23.8	29.6	35.3	43.4	52.1	59.2
50°	7.9	12.2	15.1	14.7	19.4	24.9	30.8	37.6	45.0	53.1	57.6
47.5°	7.9	12.4	15.1	14.5	19.9	26.0	32.2	39.9	46.0	54.2	55.8
45°	7.9	12.5	15.1	14.8	20.3	27.0	34.2	42.2	48.4	53.0	54.4
42.5°	7.9	12.7	15.1	15.1	20.7	28.1	36.2	44.7	51.2	51.9	52.8
40°	7.9	12.9	15.1	15.7	21.3	29.1	38.2	47.4	53.9	51.4	51.6
37.5°	7.9	13.0	15.2	16.5	22.1	30.2	40.1	50.3	56.3	54.4	51.1
35°	7.9	13.2	15.3	17.3	22.8	31.5	41.9	53.3	59.3	58.8	54.9
32.5°	7.9	13.3	15.4	18.2	23.5	32.9	43.9	56.6	63.0	64.4	70.5
30°	7.9	13.4	15.5	19.1	24.2	34.3	46.5	59.9	67.4	71.1	86.5
27.5°	7.9	13.5	15.6	20.0	26.1	35.5	49.0	63.3	72.6	79.0	102.8
25°	7.9	13.6	15.8	20.9	28.3	36.8	51.6	67.0	78.8	91.1	121.1
22.5°	7.9	13.7	15.9	21.9	30.6	39.0	54.1	70.9	85.7	104.9	179.5
20°	7.9	13.7	16.1	22.8	32.9	43.9	56.6	75.0	93.0	118.7	241.4
17.5°	7.9	13.8	16.3	23.7	35.3	49.0	63.2	79.3	100.7	132.3	305.6
15°	7.9	13.8	16.5	24.7	37.7	54.4	72.4	88.0	108.7	145.6	370.8
12.5°	7.9	13.9	16.7	25.6	40.1	59.9	81.8	102.4	125.2	158.5	435.6
10°	7.9	13.9	16.9	26.4	42.4	65.4	91.3	117.1	148.8	197.4	521.0
7.5°	7.9	13.9	17.1	27.3	44.8	70.9	100.7	131.9	172.9	241.5	653.8
5°	7.9	13.9	17.3	28.1	47.0	76.3	110.0	146.6	196.9	286.1	786.0
2.5°	7.9	13.8	17.5	28.8	49.1	81.5	119.1	161.0	220.6	330.4	913.3
0°	7.9	13.8	17.7	29.5	51.1	86.5	127.7	174.9	243.6	373.3	1031.5
-2.5°	7.9	14.0	19.0	33.9	61.0	105.0	160.8	229.6	329.7	512.5	1214.1
-5°	7.9	14.3	20.2	38.1	70.7	123.0	193.0	282.8	413.5	646.7	1380.9
-7.5°	7.9	14.5	21.5	42.2	80.0	140.2	223.8	333.9	493.5	773.4	1529.6
-10°	7.9	14.7	22.6	46.0	88.7	156.4	252.8	382.0	568.6	890.1	1658.0
-12.5°	7.9	14.9	23.7	49.6	96.8	171.4	279.6	426.5	637.5	990.3	1706.6
-15°	7.9	15.1	24.8	52.9	104.3	185.1	303.7	466.6	697.9	1051.6	1714.2
-17.5°	7.9	15.2	25.7	55.8	110.9	197.2	324.9	504.8	749.9	1104.0	1711.4
-20°	7.9	15.3	26.6	58.3	116.5	207.5	345.6	540.5	795.0	1147.1	1699.6



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 CATALOG NUMBER: EPH-LS-08-0680N-40-80-7F-CV2

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	7.9	15.4	27.4	60.4	121.2	216.0	367.5	571.0	832.4	1180.6	1679.8
-25°	7.9	15.5	28.0	62.0	124.8	227.2	385.7	595.9	861.9	1204.1	1653.1
-27.5°	7.9	15.6	28.6	63.1	127.3	237.8	400.0	614.9	883.0	1223.5	1669.9
-30°	7.9	15.6	29.0	63.7	129.0	245.8	410.0	627.7	900.6	1244.0	1676.6
-32.5°	7.9	15.6	29.3	63.7	132.9	251.0	415.6	637.6	912.9	1253.0	1670.7
-35°	7.9	15.6	29.5	63.2	135.3	253.3	420.1	642.4	916.7	1250.4	1652.2
-37.5°	7.9	15.5	29.6	62.1	136.1	253.9	421.7	640.9	911.6	1236.0	1571.5
-40°	7.9	15.4	29.5	60.4	135.2	254.1	419.0	633.1	897.7	1218.6	1490.7
-42.5°	7.9	15.3	29.3	58.7	134.0	251.5	411.9	618.9	879.8	1159.9	1404.8
-45°	7.9	15.2	28.9	57.7	132.7	246.4	400.4	601.3	855.9	1092.4	1316.1
-47.5°	7.9	15.0	28.4	55.9	130.0	238.6	384.6	581.8	823.1	1021.7	1237.1
-50°	7.9	14.8	27.8	55.3	126.0	228.2	369.9	556.5	765.5	956.9	1154.5
-52.5°	7.9	14.6	27.0	54.7	120.5	215.2	352.4	525.5	711.5	889.4	1069.7
-55°	7.9	14.4	26.1	53.5	113.8	204.2	331.4	489.9	657.4	819.1	991.9
-57.5°	7.9	14.1	25.1	51.6	105.7	192.1	306.9	457.5	600.7	753.2	911.5
-60°	7.9	13.8	23.9	49.1	96.6	177.9	280.0	416.9	543.5	686.5	831.3
-62.5°	7.9	13.5	23.1	46.0	90.2	162.0	257.3	372.2	490.2	617.3	754.1
-65°	7.9	13.1	22.1	42.4	82.7	144.3	232.2	328.2	434.2	550.3	674.2
-67.5°	7.9	12.8	21.1	38.3	74.2	127.6	204.8	289.5	375.6	481.5	593.7
-70°	7.9	12.4	20.0	33.8	64.9	111.9	175.3	249.0	325.3	409.9	510.8
-72.5°	7.9	12.0	18.9	30.8	54.8	95.0	149.0	206.7	273.1	346.6	427.1
-75°	7.9	11.6	17.7	28.2	44.1	76.9	121.9	168.3	219.0	281.3	349.5
-77.5°	7.9	11.1	16.4	25.5	38.0	58.0	93.4	130.8	171.7	217.0	269.6
-80°	7.9	10.7	15.2	22.6	32.8	45.8	63.8	92.3	124.2	159.5	198.1
-82.5°	7.9	10.2	13.9	19.6	27.5	37.4	49.5	61.0	75.7	100.9	128.6
-85°	7.9	9.8	12.5	16.5	22.0	28.8	37.1	44.9	53.6	63.1	73.3
-87.5°	7.9	9.3	11.2	13.4	16.4	20.1	24.5	28.7	33.3	38.3	43.6
-90°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9





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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°	14.3	14.8	15.2	15.7	16.2	16.7	17.2	17.7	18.7	19.7	20.6
87.5°	12.6	13.3	13.9	14.6	13.4	11.9	10.4	8.7	9.1	9.6	10.2
85°	17.4	18.6	20.3	21.6	20.6	19.8	19.2	18.8	19.8	20.7	21.4
82.5°	26.3	28.0	29.1	29.6	30.2	31.1	32.8	36.3	38.5	39.8	40.4
80°	36.2	37.5	38.6	41.3	46.0	51.5	57.9	64.9	66.8	66.5	65.2
77.5°	42.3	44.8	49.4	56.1	63.8	71.7	80.4	89.9	92.3	91.2	89.3
75°	45.9	51.4	59.0	68.6	78.6	89.2	100.5	110.8	113.3	110.0	105.9
72.5°	49.0	57.1	67.3	79.7	91.4	102.2	113.7	125.6	130.2	124.7	117.4
70°	51.8	62.0	74.4	87.8	101.0	112.6	123.8	136.7	145.0	134.6	118.6
67.5°	54.3	67.0	80.6	94.3	105.7	117.2	130.7	136.2	139.3	122.6	105.5
65°	58.0	71.6	83.8	95.3	107.1	112.7	117.2	121.4	119.7	100.9	82.7
62.5°	61.6	72.7	84.0	93.3	97.0	100.4	99.8	95.8	89.7	78.0	63.9
60°	62.9	72.4	80.6	84.5	85.8	82.7	78.1	74.4	69.2	59.2	49.8
57.5°	63.6	69.2	73.7	74.9	71.3	66.5	64.7	59.5	55.6	49.3	40.8
55°	63.1	63.9	66.2	63.5	60.7	58.8	56.0	54.3	49.0	43.0	36.7
52.5°	60.5	59.5	57.5	56.3	57.1	56.7	55.7	52.9	48.0	42.0	38.6
50°	58.1	54.6	51.4	55.8	59.8	63.1	58.0	54.9	54.7	52.0	46.3
47.5°	55.1	50.5	53.3	60.0	71.4	75.6	68.5	68.3	70.6	76.1	69.3
45°	52.4	54.1	58.5	75.3	89.2	95.6	96.7	89.1	107.9	114.2	112.2
42.5°	50.4	61.6	81.8	93.5	115.9	129.7	135.2	146.4	157.5	171.2	174.7
40°	57.8	71.5	116.8	136.8	150.7	174.2	202.7	221.3	224.8	245.5	254.8
37.5°	67.4	111.3	164.6	199.2	198.3	239.2	281.9	326.6	351.8	332.0	377.7
35°	78.3	158.1	233.6	284.1	296.8	322.2	397.4	483.0	565.7	517.2	540.8
32.5°	110.7	211.7	314.3	391.5	466.5	483.6	530.2	762.1	912.2	914.7	793.9
30°	163.6	287.1	410.6	515.9	689.4	769.0	843.3	1131.5	1383.9	1546.4	1580.9
27.5°	230.0	373.4	528.2	717.9	963.7	1107.3	1348.3	1657.7	2054.9	2352.3	2557.8
25°	304.6	506.7	656.8	973.3	1291.2	1554.9	1893.2	2319.1	2876.1	3352.8	3797.8
22.5°	400.5	661.5	860.9	1259.4	1654.0	2038.9	2508.7	3120.9	3829.8	4449.6	5080.2
20°	521.2	837.3	1127.0	1612.3	2066.6	2529.8	3132.6	3983.9	4881.2	5757.6	6575.9
17.5°	651.8	1022.6	1425.0	2015.6	2630.2	3154.0	3785.2	4880.2	5988.6	7192.1	8383.9
15°	789.4	1214.6	1720.4	2455.6	3235.4	3948.5	4783.3	5898.9	7216.9	8760.5	10298.0
12.5°	930.7	1410.1	2010.3	2921.2	3866.6	4757.6	5820.5	7093.4	8606.5	10437.1	12301.5
10°	1072.2	1605.7	2291.4	3400.3	4511.5	5570.5	6831.6	8246.6	9976.7	12033.7	14142.7
7.5°	1328.5	1862.8	2583.0	3879.6	5156.9	6375.4	7807.5	9350.6	11274.3	13561.1	15867.8
5°	1602.3	2179.4	2980.7	4382.4	5766.3	7081.7	8685.1	10395.2	12489.2	14999.5	17500.7
2.5°	1868.3	2484.0	3360.2	4851.9	6326.6	7620.4	9275.3	11073.4	13291.2	16003.8	18741.2
0°	2118.1	2774.4	3717.5	5277.6	6841.6	8107.0	9798.7	11677.1	13924.9	16722.8	19603.3
-2.5°	2343.7	3039.8	4018.2	5538.0	7000.6	8227.4	9931.1	11814.8	14038.1	16725.4	19388.3
-5°	2542.1	3287.2	4290.7	5755.4	7119.4	8307.3	9994.0	11870.4	14050.6	16605.1	19091.4
-7.5°	2711.0	3514.9	4533.1	5911.8	7182.7	8371.3	10007.3	11850.6	13976.5	16386.5	18740.9
-10°	2823.8	3608.8	4548.3	5871.1	7165.4	8397.0	9961.5	11755.7	13802.6	16076.3	18306.3
-12.5°	2751.0	3574.0	4494.3	5780.7	7105.6	8363.7	9854.9	11589.3	13532.4	15692.0	17793.1
-15°	2668.4	3516.4	4406.2	5638.8	7003.5	8267.4	9690.6	11355.1	13068.8	15062.7	17135.9
-17.5°	2580.3	3434.9	4282.9	5444.3	6859.6	8104.9	9386.4	10737.7	12310.0	14265.6	16313.5
-20°	2490.8	3328.8	4123.5	5196.1	6662.1	7691.7	8740.6	9996.9	11487.7	13308.3	15358.3



REPORT NUMBER: P731639 (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°	2403.5	3197.4	3955.5	4978.0	6135.7	7107.3	8055.1	9185.5	10539.5	12187.0	13983.4
-25°	2337.7	3061.3	3792.8	4621.5	5582.5	6513.6	7319.5	8321.6	9553.3	10962.5	12383.8
-27.5°	2286.6	2940.5	3562.4	4269.7	5062.5	5915.1	6630.8	7491.2	8650.9	9779.6	10876.6
-30°	2232.3	2780.7	3329.2	3945.3	4646.1	5353.1	5974.0	6813.7	7845.6	8819.5	9692.7
-32.5°	2127.3	2611.8	3124.8	3680.2	4267.8	4850.3	5500.1	6295.7	7158.0	7995.5	8696.0
-35°	2003.0	2453.3	2928.0	3418.2	3914.7	4477.8	5125.0	5807.4	6537.2	7294.3	8092.5
-37.5°	1898.7	2288.3	2725.6	3175.5	3633.9	4158.4	4737.5	5364.0	6011.0	6688.1	7469.5
-40°	1786.6	2117.2	2533.2	2950.0	3371.9	3843.8	4376.0	4931.8	5511.6	6152.8	6829.2
-42.5°	1669.8	1984.7	2340.9	2720.0	3115.8	3538.5	4001.5	4518.2	5051.1	5614.4	6218.5
-45°	1569.3	1845.3	2151.2	2504.3	2856.4	3230.3	3648.6	4098.9	4599.0	5100.4	5626.3
-47.5°	1463.6	1706.8	1990.8	2285.3	2608.7	2940.1	3290.3	3714.4	4146.4	4606.1	5061.7
-50°	1358.1	1585.8	1824.1	2095.5	2372.9	2663.4	2970.6	3349.6	3746.0	4132.6	4532.0
-52.5°	1263.6	1459.8	1683.5	1914.0	2161.1	2413.1	2697.9	3027.9	3377.0	3721.2	4076.9
-55°	1165.6	1349.5	1546.4	1754.0	1966.2	2190.2	2452.4	2746.3	3033.4	3353.7	3672.1
-57.5°	1072.9	1242.6	1421.7	1604.8	1795.4	1989.1	2241.4	2485.7	2752.4	3018.3	3294.4
-60°	982.3	1139.4	1303.7	1469.8	1635.0	1829.2	2043.4	2270.8	2497.8	2723.9	2982.1
-62.5°	890.6	1040.8	1190.4	1341.1	1494.6	1674.7	1878.8	2079.3	2272.7	2488.0	2707.1
-65°	803.1	940.1	1081.4	1220.6	1356.8	1531.4	1715.4	1905.0	2093.1	2273.8	2459.9
-67.5°	712.2	837.0	967.4	1101.3	1232.3	1383.7	1548.1	1720.7	1896.2	2062.5	2233.1
-70°	616.8	729.4	846.8	968.4	1095.4	1230.3	1370.9	1522.0	1677.4	1824.4	1972.8
-72.5°	517.3	614.9	718.9	828.8	939.3	1055.1	1178.2	1308.1	1435.2	1558.4	1686.6
-75°	420.7	497.1	584.1	676.7	770.8	868.5	971.4	1077.4	1179.5	1279.5	1382.6
-77.5°	325.7	386.3	452.2	523.1	593.6	669.5	749.9	834.5	913.9	991.8	1070.8
-80°	234.9	273.0	321.1	373.7	426.7	480.9	536.5	593.2	643.9	697.3	754.8
-82.5°	154.7	182.0	210.7	240.7	270.8	301.9	335.7	375.7	409.2	442.4	475.8
-85°	81.7	90.2	107.5	125.7	143.4	161.7	180.7	200.2	217.6	234.2	249.9
-87.5°	48.0	52.5	57.2	61.9	65.8	69.7	73.6	77.4	82.7	88.1	93.5
-90°	7.9	7.9	7.9	7.9	7.4	6.9	6.4	5.9	5.9	5.9	5.9



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	21.6	22.6	23.6	24.5	25.5	26.0	26.5	27.0	27.5	28.0	28.5
87.5°	10.7	10.5	10.1	9.8	9.4	11.7	14.1	16.5	19.1	17.3	15.5
85°	21.8	21.8	21.6	21.4	21.0	24.3	27.6	31.0	34.3	31.3	28.2
82.5°	40.3	39.5	38.1	36.1	33.7	33.4	32.8	31.7	30.2	28.8	27.6
80°	63.3	60.4	56.6	52.0	46.8	44.0	41.2	38.2	34.9	33.9	33.1
77.5°	85.7	80.0	73.3	66.0	58.1	53.2	48.9	44.2	39.3	38.0	37.1
75°	101.3	94.1	84.1	73.5	62.5	55.1	49.6	44.1	38.7	36.8	35.7
72.5°	108.4	97.8	85.6	71.5	57.9	49.1	43.6	38.6	33.9	32.0	31.1
70°	103.0	88.0	74.0	60.6	48.0	39.5	35.5	32.2	29.4	27.9	27.1
67.5°	87.8	72.5	59.2	47.4	37.7	31.3	29.1	27.1	25.4	24.4	24.0
65°	68.0	56.2	46.0	37.6	30.9	26.6	24.9	23.2	21.6	20.6	20.2
62.5°	51.5	42.4	35.8	30.5	26.4	23.4	22.1	21.0	20.1	19.5	19.0
60°	41.2	33.5	29.4	26.6	24.1	21.9	21.6	21.4	21.1	20.8	20.0
57.5°	35.3	30.6	27.5	26.8	25.7	24.3	23.9	23.8	22.9	21.5	20.8
55°	33.7	32.6	31.2	31.8	31.8	30.6	28.9	27.6	26.5	25.4	25.5
52.5°	37.6	40.1	41.4	41.4	39.4	36.4	33.0	33.5	34.2	34.7	35.3
50°	50.2	53.3	53.2	49.0	48.6	46.9	42.9	44.8	47.3	47.9	48.3
47.5°	69.6	72.7	74.7	67.0	68.4	72.6	68.2	66.9	75.2	78.9	80.7
45°	101.5	114.0	117.6	119.9	116.6	127.4	127.5	122.4	138.6	147.4	150.4
42.5°	169.3	190.3	206.9	211.7	207.8	221.2	231.6	230.8	251.1	265.5	269.3
40°	283.3	303.0	326.8	335.6	339.5	351.9	377.9	394.7	415.1	437.7	449.1
37.5°	429.5	460.4	465.3	483.6	506.4	517.9	557.6	591.4	619.2	661.4	688.5
35°	643.7	725.6	637.3	679.2	737.2	743.9	779.9	858.1	877.6	951.5	992.4
32.5°	1038.9	1191.4	1171.4	1029.6	1154.3	1295.7	1138.2	1418.4	1393.3	1472.2	1572.5
30°	1639.6	2083.1	2132.2	1924.9	2271.0	2458.8	2428.7	2707.9	2886.9	2864.7	3212.0
27.5°	2925.1	3280.7	3442.2	3740.0	3927.0	4203.9	4691.5	4975.6	5486.4	5754.5	6076.0
25°	4316.4	4736.8	5255.8	5767.9	6156.9	6770.7	7454.9	7992.9	8716.0	9169.7	9500.3
22.5°	5820.4	6563.0	7285.4	7998.8	8784.1	9629.4	10436.7	11368.9	12249.0	12898.8	13390.1
20°	7469.2	8496.9	9518.7	10498.0	11477.7	12608.1	13607.7	14728.0	15809.1	16748.9	17396.2
17.5°	9507.4	10582.0	11886.8	13197.3	14466.5	15866.3	17342.7	18598.9	20114.9	21367.0	22308.7
15°	11727.3	13073.0	14497.1	16136.2	17850.3	19582.2	21373.0	23219.9	24945.6	26546.4	27745.5
12.5°	14019.6	15694.6	17429.9	19244.8	21232.3	23387.7	25638.0	27836.2	29970.0	31729.6	33374.6
10°	16221.5	18314.9	20328.4	22455.0	24743.9	27155.1	29790.3	32408.7	34888.8	37056.2	38826.4
7.5°	18150.9	20423.6	22746.6	25354.3	28071.0	30773.1	33628.1	36565.3	39388.0	41886.2	43955.9
5°	19964.6	22335.6	24689.0	27494.5	30492.0	33592.7	36825.2	40124.7	43172.1	45996.5	48288.6
2.5°	21378.7	23872.5	26292.4	29368.6	32531.7	35689.5	38985.6	42593.0	45992.4	49062.7	51311.6
0°	22242.1	24704.0	27042.2	30343.2	33596.9	36911.6	40546.6	44385.9	47965.9	50907.2	53098.1
-2.5°	21943.5	24345.5	26882.1	30124.6	33564.4	36879.7	40556.8	44431.5	47988.1	50977.1	53116.5
-5°	21533.5	23888.3	26455.6	29700.0	33057.2	36368.6	39994.0	43804.3	47297.4	50237.9	52264.0
-7.5°	21029.4	23302.3	25805.7	28952.2	32290.6	35606.0	39135.1	42740.3	46081.0	49003.8	50910.5
-10°	20433.4	22588.2	25064.7	28091.1	31404.1	34600.0	37953.3	41523.9	44876.6	47534.7	49581.1
-12.5°	19815.2	21914.4	24214.3	27077.6	30249.2	33220.5	36422.0	39860.5	42814.2	45532.6	47330.9
-15°	19107.1	21120.4	23276.9	25916.1	28790.6	31571.7	34352.7	37385.0	40080.2	42497.3	44408.2
-17.5°	18287.7	20195.1	22087.8	24460.9	27213.1	29697.1	32132.0	34772.4	37168.5	39387.7	41042.0
-20°	17155.9	18725.5	20544.1	22814.4	25198.5	27293.7	29515.4	31733.4	33866.5	35745.1	37145.9



REPORT NUMBER: P731639 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-7F-CV2

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	15534.6	17062.0	18746.7	20603.6	22598.3	24522.8	26424.5	28239.3	29974.8	31538.0	32665.6
-25°	13808.9	15204.0	16724.7	18268.2	19861.0	21585.0	23253.0	24750.9	26178.0	27385.9	28314.7
-27.5°	12094.4	13413.6	14743.2	15988.8	17262.8	18702.8	20162.7	21416.9	22625.6	23571.8	24295.8
-30°	10562.9	11973.2	13144.0	13991.4	15226.1	16489.4	17435.9	18577.0	19529.2	20133.0	20911.2
-32.5°	9718.9	10782.7	11844.2	12715.5	13696.5	14805.0	15701.3	16633.5	17437.1	18086.0	18575.3
-35°	8949.1	9883.8	10780.7	11677.2	12553.0	13443.5	14269.6	15056.5	15769.3	16343.1	16796.5
-37.5°	8257.4	9066.5	9878.5	10651.8	11438.6	12182.8	12892.0	13570.8	14170.1	14687.3	15114.6
-40°	7559.2	8281.9	8996.0	9695.3	10383.4	10990.9	11600.7	12161.5	12667.3	13125.0	13498.6
-42.5°	6858.1	7503.0	8128.4	8762.8	9373.4	9900.7	10404.1	10867.7	11301.4	11691.5	12013.9
-45°	6168.7	6738.3	7289.4	7852.7	8367.5	8848.1	9287.0	9677.3	10050.0	10378.7	10649.7
-47.5°	5547.5	6011.3	6503.1	6983.9	7430.8	7863.6	8247.5	8591.1	8918.0	9196.4	9417.5
-50°	4970.1	5393.6	5808.2	6197.7	6615.3	6994.7	7319.6	7636.2	7933.5	8181.9	8368.4
-52.5°	4427.2	4818.0	5190.8	5554.2	5916.5	6254.1	6565.7	6855.3	7115.0	7342.7	7504.3
-55°	3997.5	4316.8	4618.7	4968.4	5301.0	5601.2	5880.2	6161.2	6411.6	6632.8	6767.8
-57.5°	3590.6	3878.8	4166.2	4468.5	4761.0	5043.0	5307.9	5554.2	5784.9	5991.8	6108.1
-60°	3227.5	3460.1	3733.5	4012.4	4277.5	4529.2	4777.9	5009.0	5223.3	5403.4	5506.2
-62.5°	2923.4	3144.3	3375.6	3608.5	3838.0	4072.2	4297.9	4512.5	4716.0	4880.1	4979.9
-65°	2655.1	2855.2	3057.4	3263.7	3472.8	3679.0	3871.1	4059.7	4243.6	4384.2	4474.2
-67.5°	2402.7	2574.8	2744.7	2920.3	3100.4	3278.3	3447.8	3614.9	3778.6	3892.0	3962.5
-70°	2126.0	2278.0	2424.3	2572.1	2719.2	2863.7	3003.8	3143.5	3281.5	3372.6	3432.9
-72.5°	1819.3	1946.2	2065.0	2183.1	2303.3	2422.2	2537.3	2649.3	2757.4	2828.0	2880.1
-75°	1488.1	1584.9	1677.2	1770.3	1863.5	1960.1	2055.2	2146.4	2233.3	2286.1	2326.7
-77.5°	1151.0	1219.5	1284.5	1350.0	1415.5	1490.3	1566.1	1639.6	1710.4	1747.7	1775.6
-80°	812.8	860.9	905.3	947.7	988.0	1035.8	1083.8	1130.3	1174.9	1196.3	1212.0
-82.5°	509.2	537.3	563.7	588.8	612.3	637.9	662.2	684.7	705.6	715.8	723.5
-85°	264.9	277.1	288.4	298.9	308.5	320.3	331.4	341.8	351.3	354.5	356.5
-87.5°	98.8	102.5	106.1	109.5	112.8	117.2	121.6	125.8	130.0	131.1	132.0
-90°	5.9	5.9	5.9	5.9	5.9	5.4	4.9	4.4	3.9	3.9	3.9



REPORT NUMBER: P731639 (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°
90°	29.0	29.5	29.5	29.5	29.5	29.5	29.0	28.5	28.0	27.5	27.0
87.5°	13.7	11.8	10.8	9.8	10.8	11.8	13.7	15.5	17.3	19.1	16.5
85°	24.9	21.6	20.6	19.6	20.6	21.6	24.9	28.2	31.3	34.3	31.0
82.5°	26.5	25.5	25.5	25.5	25.5	25.5	26.5	27.6	28.8	30.2	31.7
80°	32.2	31.3	31.4	31.4	31.4	31.3	32.2	33.1	33.9	34.9	38.2
77.5°	36.3	35.4	35.4	35.4	35.4	35.4	36.3	37.1	38.0	39.3	44.2
75°	34.6	33.5	33.4	33.4	33.4	33.5	34.6	35.7	36.8	38.7	44.1
72.5°	30.3	29.7	29.5	29.5	29.5	29.7	30.3	31.1	32.0	33.9	38.6
70°	26.4	25.7	25.5	25.5	25.5	25.7	26.4	27.1	27.9	29.4	32.2
67.5°	23.8	23.7	23.6	23.6	23.6	23.7	23.8	24.0	24.4	25.4	27.1
65°	20.0	19.8	19.6	19.6	19.6	19.8	20.0	20.2	20.6	21.6	23.2
62.5°	18.5	17.9	16.9	15.7	16.9	17.9	18.5	19.0	19.5	20.1	21.0
60°	19.0	18.0	17.7	17.7	17.7	18.0	19.0	20.0	20.8	21.1	21.4
57.5°	20.2	19.7	19.6	19.6	19.6	19.7	20.2	20.8	21.5	22.9	23.8
55°	25.5	25.4	25.4	25.5	25.4	25.4	25.5	25.5	25.4	26.5	27.6
52.5°	35.5	35.2	35.2	35.4	35.2	35.2	35.5	35.3	34.7	34.2	33.5
50°	48.7	48.7	48.2	47.2	48.2	48.7	48.7	48.3	47.9	47.3	44.8
47.5°	81.9	80.7	79.3	78.6	79.3	80.7	81.9	80.7	78.9	75.2	66.9
45°	153.9	152.8	150.6	149.3	150.6	152.8	153.9	150.4	147.4	138.6	122.4
42.5°	275.6	273.4	268.2	265.3	268.2	273.4	275.6	269.3	265.5	251.1	230.8
40°	462.0	464.4	460.4	457.8	460.4	464.4	462.0	449.1	437.7	415.1	394.7
37.5°	710.1	720.5	719.1	715.2	719.1	720.5	710.1	688.5	661.4	619.2	591.4
35°	1011.2	1022.7	1016.8	1015.8	1016.8	1022.7	1011.2	992.4	951.5	877.6	858.1
32.5°	1497.2	1480.3	1416.9	1434.3	1416.9	1480.3	1497.2	1572.5	1472.2	1393.3	1418.4
30°	3235.4	3297.6	3120.3	2978.7	3120.3	3297.6	3235.4	3212.0	2864.7	2886.9	2707.9
27.5°	6107.8	6242.0	6216.9	6362.2	6216.9	6242.0	6107.8	6076.0	5754.5	5486.4	4975.6
25°	9630.1	9719.0	9724.7	9462.7	9724.7	9719.0	9630.1	9500.3	9169.7	8716.0	7992.9
22.5°	13572.0	13657.9	13814.5	13814.9	13814.5	13657.9	13572.0	13390.1	12898.8	12249.0	11368.9
20°	17846.1	17861.8	18161.1	18182.7	18161.1	17861.8	17846.1	17396.2	16748.9	15809.1	14728.0
17.5°	22971.6	23220.8	23625.3	23389.6	23625.3	23220.8	22971.6	22308.7	21367.0	20114.9	18598.9
15°	28880.1	29437.0	29869.4	29675.1	29869.4	29437.0	28880.1	27745.5	26546.4	24945.6	23219.9
12.5°	34682.6	35560.4	35978.3	35876.2	35978.3	35560.4	34682.6	33374.6	31729.6	29970.0	27836.2
10°	40205.8	41441.4	41885.2	42041.9	41885.2	41441.4	40205.8	38826.4	37056.2	34888.8	32408.7
7.5°	45500.7	46632.9	47305.9	47024.7	47305.9	46632.9	45500.7	43955.9	41886.2	39388.0	36565.3
5°	49750.3	50706.6	51250.2	51056.6	51250.2	50706.6	49750.3	48288.6	45996.5	43172.1	40124.7
2.5°	52759.9	53652.9	54124.1	53887.0	54124.1	53652.9	52759.9	51311.6	49062.7	45992.4	42593.0
0°	54479.3	55389.1	55922.5	55960.9	55922.5	55389.1	54479.3	53098.1	50907.2	47965.9	44385.9
-2.5°	54412.2	55054.9	55429.8	55238.8	55429.8	55054.9	54412.2	53116.5	50977.1	47988.1	44431.5
-5°	53273.1	53815.8	54010.5	53927.2	54010.5	53815.8	53273.1	52264.0	50237.9	47297.4	43804.3
-7.5°	51867.8	52267.9	52401.7	52302.3	52401.7	52267.9	51867.8	50910.5	49003.8	46081.0	42740.3
-10°	50508.1	50908.0	50975.9	50919.1	50975.9	50908.0	50508.1	49581.1	47534.7	44876.6	41523.9
-12.5°	48528.7	48962.1	48976.2	48844.2	48976.2	48962.1	48528.7	47330.9	45532.6	42814.2	39860.5
-15°	45441.3	45795.7	45852.9	45779.0	45852.9	45795.7	45441.3	44408.2	42497.3	40080.2	37385.0
-17.5°	42009.7	42244.4	42498.7	42782.6	42498.7	42244.4	42009.7	41042.0	39387.7	37168.5	34772.4
-20°	37889.6	38170.3	38470.4	38788.1	38470.4	38170.3	37889.6	37145.9	35745.1	33866.5	31733.4



REPORT NUMBER: P731639 (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°	33259.0	33574.5	33882.2	34043.0	33882.2	33574.5	33259.0	32665.6	31538.0	29974.8	28239.3
-25°	28779.8	29163.9	29406.9	29553.3	29406.9	29163.9	28779.8	28314.7	27385.9	26178.0	24750.9
-27.5°	24673.5	25128.9	25353.1	25448.7	25353.1	25128.9	24673.5	24295.8	23571.8	22625.6	21416.9
-30°	21215.0	21494.6	21533.3	21678.2	21533.3	21494.6	21215.0	20911.2	20133.0	19529.2	18577.0
-32.5°	18934.9	19245.5	19434.3	19593.5	19434.3	19245.5	18934.9	18575.3	18086.0	17437.1	16633.5
-35°	17148.5	17429.9	17615.1	17691.5	17615.1	17429.9	17148.5	16796.5	16343.1	15769.3	15056.5
-37.5°	15436.3	15648.9	15778.3	15881.9	15778.3	15648.9	15436.3	15114.6	14687.3	14170.1	13570.8
-40°	13785.4	13996.3	14124.3	14158.7	14124.3	13996.3	13785.4	13498.6	13125.0	12667.3	12161.5
-42.5°	12244.6	12407.0	12518.4	12594.7	12518.4	12407.0	12244.6	12013.9	11691.5	11301.4	10867.7
-45°	10849.4	10992.5	11091.7	11152.5	11091.7	10992.5	10849.4	10649.7	10378.7	10050.0	9677.3
-47.5°	9580.3	9695.4	9774.4	9820.3	9774.4	9695.4	9580.3	9417.5	9196.4	8918.0	8591.1
-50°	8507.6	8610.5	8683.5	8727.9	8683.5	8610.5	8507.6	8368.4	8181.9	7933.5	7636.2
-52.5°	7630.5	7730.5	7804.0	7851.5	7804.0	7730.5	7630.5	7504.3	7342.7	7115.0	6855.3
-55°	6879.9	6971.8	7038.3	7081.3	7038.3	6971.8	6879.9	6767.8	6632.8	6411.6	6161.2
-57.5°	6206.9	6288.0	6344.4	6379.9	6344.4	6288.0	6206.9	6108.1	5991.8	5784.9	5554.2
-60°	5593.9	5667.0	5718.8	5755.0	5718.8	5667.0	5593.9	5506.2	5403.4	5223.3	5009.0
-62.5°	5068.3	5145.2	5186.3	5208.8	5186.3	5145.2	5068.3	4979.9	4880.1	4716.0	4512.5
-65°	4556.9	4631.1	4671.1	4694.0	4671.1	4631.1	4556.9	4474.2	4384.2	4243.6	4059.7
-67.5°	4024.8	4078.2	4118.9	4149.8	4118.9	4078.2	4024.8	3962.5	3892.0	3778.6	3614.9
-70°	3484.8	3528.0	3529.4	3517.1	3529.4	3528.0	3484.8	3432.9	3372.6	3281.5	3143.5
-72.5°	2925.3	2963.2	2973.1	2972.8	2973.1	2963.2	2925.3	2880.1	2828.0	2757.4	2649.3
-75°	2361.6	2390.7	2410.2	2422.7	2410.2	2390.7	2361.6	2326.7	2286.1	2233.3	2146.4
-77.5°	1798.3	1815.8	1832.1	1843.0	1832.1	1815.8	1798.3	1775.6	1747.7	1710.4	1639.6
-80°	1224.0	1232.1	1234.0	1232.0	1234.0	1232.1	1224.0	1212.0	1196.3	1174.9	1130.3
-82.5°	729.1	732.5	728.9	723.1	728.9	732.5	729.1	723.5	715.8	705.6	684.7
-85°	357.7	357.9	357.2	355.6	357.2	357.9	357.7	356.5	354.5	351.3	341.8
-87.5°	132.7	133.2	135.4	137.5	135.4	133.2	132.7	132.0	131.1	130.0	125.8
-90°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.4



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	26.5	26.0	25.5	24.5	23.6	22.6	21.6	20.6	19.7	18.7	17.7
87.5°	14.1	11.7	9.4	9.8	10.1	10.5	10.7	10.2	9.6	9.1	8.7
85°	27.6	24.3	21.0	21.4	21.6	21.8	21.8	21.4	20.7	19.8	18.8
82.5°	32.8	33.4	33.7	36.1	38.1	39.5	40.3	40.4	39.8	38.5	36.3
80°	41.2	44.0	46.8	52.0	56.6	60.4	63.3	65.2	66.5	66.8	64.9
77.5°	48.9	53.2	58.1	66.0	73.3	80.0	85.7	89.3	91.2	92.3	89.9
75°	49.6	55.1	62.5	73.5	84.1	94.1	101.3	105.9	110.0	113.3	110.8
72.5°	43.6	49.1	57.9	71.5	85.6	97.8	108.4	117.4	124.7	130.2	125.6
70°	35.5	39.5	48.0	60.6	74.0	88.0	103.0	118.6	134.6	145.0	136.7
67.5°	29.1	31.3	37.7	47.4	59.2	72.5	87.8	105.5	122.6	139.3	136.2
65°	24.9	26.6	30.9	37.6	46.0	56.2	68.0	82.7	100.9	119.7	121.4
62.5°	22.1	23.4	26.4	30.5	35.8	42.4	51.5	63.9	78.0	89.7	95.8
60°	21.6	21.9	24.1	26.6	29.4	33.5	41.2	49.8	59.2	69.2	74.4
57.5°	23.9	24.3	25.7	26.8	27.5	30.6	35.3	40.8	49.3	55.6	59.5
55°	28.9	30.6	31.8	31.8	31.2	32.6	33.7	36.7	43.0	49.0	54.3
52.5°	33.0	36.4	39.4	41.4	41.4	40.1	37.6	38.6	42.0	48.0	52.9
50°	42.9	46.9	48.6	49.0	53.2	53.3	50.2	46.3	52.0	54.7	54.9
47.5°	68.2	72.6	68.4	67.0	74.7	72.7	69.6	69.3	76.1	70.6	68.3
45°	127.5	127.4	116.6	119.9	117.6	114.0	101.5	112.2	114.2	107.9	89.1
42.5°	231.6	221.2	207.8	211.7	206.9	190.3	169.3	174.7	171.2	157.5	146.4
40°	377.9	351.9	339.5	335.6	326.8	303.0	283.3	254.8	245.5	224.8	221.3
37.5°	557.6	517.9	506.4	483.6	465.3	460.4	429.5	377.7	332.0	351.8	326.6
35°	779.9	743.9	737.2	679.2	637.3	725.6	643.7	540.8	517.2	565.7	483.0
32.5°	1138.2	1295.7	1154.3	1029.6	1171.4	1191.4	1038.9	793.9	914.7	912.2	762.1
30°	2428.7	2458.8	2271.0	1924.9	2132.2	2083.1	1639.6	1580.9	1546.4	1383.9	1131.5
27.5°	4691.5	4203.9	3927.0	3740.0	3442.2	3280.7	2925.1	2557.8	2352.3	2054.9	1657.7
25°	7454.9	6770.7	6156.9	5767.9	5255.8	4736.8	4316.4	3797.8	3352.8	2876.1	2319.1
22.5°	10436.7	9629.4	8784.1	7998.8	7285.4	6563.0	5820.4	5080.2	4449.6	3829.8	3120.9
20°	13607.7	12608.1	11477.7	10498.0	9518.7	8496.9	7469.2	6575.9	5757.6	4881.2	3983.9
17.5°	17342.7	15866.3	14466.5	13197.3	11886.8	10582.0	9507.4	8383.9	7192.1	5988.6	4880.2
15°	21373.0	19582.2	17850.3	16136.2	14497.1	13073.0	11727.3	10298.0	8760.5	7216.9	5898.9
12.5°	25638.0	23387.7	21232.3	19244.8	17429.9	15694.6	14019.6	12301.5	10437.1	8606.5	7093.4
10°	29790.3	27155.1	24743.9	22455.0	20328.4	18314.9	16221.5	14142.7	12033.7	9976.7	8246.6
7.5°	33628.1	30773.1	28071.0	25354.3	22746.6	20423.6	18150.9	15867.8	13561.1	11274.3	9350.6
5°	36825.2	33592.7	30492.0	27494.5	24689.0	22335.6	19964.6	17500.7	14999.5	12489.2	10395.2
2.5°	38985.6	35689.5	32531.7	29368.6	26292.4	23872.5	21378.7	18741.2	16003.8	13291.2	11073.4
0°	40546.6	36911.6	33596.9	30343.2	27042.2	24704.0	22242.1	19603.3	16722.8	13924.9	11677.1
-2.5°	40556.8	36879.7	33564.4	30124.6	26882.1	24345.5	21943.5	19388.3	16725.4	14038.1	11814.8
-5°	39994.0	36368.6	33057.2	29700.0	26455.6	23888.3	21533.5	19091.4	16605.1	14050.6	11870.4
-7.5°	39135.1	35606.0	32290.6	28952.2	25805.7	23302.3	21029.4	18740.9	16386.5	13976.5	11850.6
-10°	37953.3	34600.0	31404.1	28091.1	25064.7	22588.2	20433.4	18306.3	16076.3	13802.6	11755.7
-12.5°	36422.0	33220.5	30249.2	27077.6	24214.3	21914.4	19815.2	17793.1	15692.0	13532.4	11589.3
-15°	34352.7	31571.7	28790.6	25916.1	23276.9	21120.4	19107.1	17135.9	15062.7	13068.8	11355.1
-17.5°	32132.0	29697.1	27213.1	24460.9	22087.8	20195.1	18287.7	16313.5	14265.6	12310.0	10737.7
-20°	29515.4	27293.7	25198.5	22814.4	20544.1	18725.5	17155.9	15358.3	13308.3	11487.7	9996.9



REPORT NUMBER: P731639 (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°	26424.5	24522.8	22598.3	20603.6	18746.7	17062.0	15534.6	13983.4	12187.0	10539.5	9185.5
-25°	23253.0	21585.0	19861.0	18268.2	16724.7	15204.0	13808.9	12383.8	10962.5	9553.3	8321.6
-27.5°	20162.7	18702.8	17262.8	15988.8	14743.2	13413.6	12094.4	10876.6	9779.6	8650.9	7491.2
-30°	17435.9	16489.4	15226.1	13991.4	13144.0	11973.2	10562.9	9692.7	8819.5	7845.6	6813.7
-32.5°	15701.3	14805.0	13696.5	12715.5	11844.2	10782.7	9718.9	8696.0	7995.5	7158.0	6295.7
-35°	14269.6	13443.5	12553.0	11677.2	10780.7	9883.8	8949.1	8092.5	7294.3	6537.2	5807.4
-37.5°	12892.0	12182.8	11438.6	10651.8	9878.5	9066.5	8257.4	7469.5	6688.1	6011.0	5364.0
-40°	11600.7	10990.9	10383.4	9695.3	8996.0	8281.9	7559.2	6829.2	6152.8	5511.6	4931.8
-42.5°	10404.1	9900.7	9373.4	8762.8	8128.4	7503.0	6858.1	6218.5	5614.4	5051.1	4518.2
-45°	9287.0	8848.1	8367.5	7852.7	7289.4	6738.3	6168.7	5626.3	5100.4	4599.0	4098.9
-47.5°	8247.5	7863.6	7430.8	6983.9	6503.1	6011.3	5547.5	5061.7	4606.1	4146.4	3714.4
-50°	7319.6	6994.7	6615.3	6197.7	5808.2	5393.6	4970.1	4532.0	4132.6	3746.0	3349.6
-52.5°	6565.7	6254.1	5916.5	5554.2	5190.8	4818.0	4427.2	4076.9	3721.2	3377.0	3027.9
-55°	5880.2	5601.2	5301.0	4968.4	4618.7	4316.8	3997.5	3672.1	3353.7	3033.4	2746.3
-57.5°	5307.9	5043.0	4761.0	4468.5	4166.2	3878.8	3590.6	3294.4	3018.3	2752.4	2485.7
-60°	4777.9	4529.2	4277.5	4012.4	3733.5	3460.1	3227.5	2982.1	2723.9	2497.8	2270.8
-62.5°	4297.9	4072.2	3838.0	3608.5	3375.6	3144.3	2923.4	2707.1	2488.0	2272.7	2079.3
-65°	3871.1	3679.0	3472.8	3263.7	3057.4	2855.2	2655.1	2459.9	2273.8	2093.1	1905.0
-67.5°	3447.8	3278.3	3100.4	2920.3	2744.7	2574.8	2402.7	2233.1	2062.5	1896.2	1720.7
-70°	3003.8	2863.7	2719.2	2572.1	2424.3	2278.0	2126.0	1972.8	1824.4	1677.4	1522.0
-72.5°	2537.3	2422.2	2303.3	2183.1	2065.0	1946.2	1819.3	1686.6	1558.4	1435.2	1308.1
-75°	2055.2	1960.1	1863.5	1770.3	1677.2	1584.9	1488.1	1382.6	1279.5	1179.5	1077.4
-77.5°	1566.1	1490.3	1415.5	1350.0	1284.5	1219.5	1151.0	1070.8	991.8	913.9	834.5
-80°	1083.8	1035.8	988.0	947.7	905.3	860.9	812.8	754.8	697.3	643.9	593.2
-82.5°	662.2	637.9	612.3	588.8	563.7	537.3	509.2	475.8	442.4	409.2	375.7
-85°	331.4	320.3	308.5	298.9	288.4	277.1	264.9	249.9	234.2	217.6	200.2
-87.5°	121.6	117.2	112.8	109.5	106.1	102.5	98.8	93.5	88.1	82.7	77.4
-90°	4.9	5.4	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9





REPORT NUMBER: P731639 (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°	17.2	16.7	16.2	15.7	15.2	14.8	14.3	13.8	13.3	12.8	12.3
87.5°	10.4	11.9	13.4	14.6	13.9	13.3	12.6	12.0	12.0	11.9	11.7
85°	19.2	19.8	20.6	21.6	20.3	18.6	17.4	16.2	16.2	15.9	15.6
82.5°	32.8	31.1	30.2	29.6	29.1	28.0	26.3	23.9	21.3	20.0	19.4
80°	57.9	51.5	46.0	41.3	38.6	37.5	36.2	33.5	28.0	24.2	22.1
77.5°	80.4	71.7	63.8	56.1	49.4	44.8	42.3	40.8	34.3	28.1	24.0
75°	100.5	89.2	78.6	68.6	59.0	51.4	45.9	42.0	36.7	31.5	25.7
72.5°	113.7	102.2	91.4	79.7	67.3	57.1	49.0	43.1	37.7	32.3	27.0
70°	123.8	112.6	101.0	87.8	74.4	62.0	51.8	44.7	38.6	33.2	27.7
67.5°	130.7	117.2	105.7	94.3	80.6	67.0	54.3	46.5	40.2	33.9	28.3
65°	117.2	112.7	107.1	95.3	83.8	71.6	58.0	48.7	41.6	35.2	28.9
62.5°	99.8	100.4	97.0	93.3	84.0	72.7	61.6	52.3	43.3	36.4	29.7
60°	78.1	82.7	85.8	84.5	80.6	72.4	62.9	55.6	46.2	37.5	30.7
57.5°	64.7	66.5	71.3	74.9	73.7	69.2	63.6	57.3	48.9	39.5	31.7
55°	56.0	58.8	60.7	63.5	66.2	63.9	63.1	58.2	51.0	41.6	33.0
52.5°	55.7	56.7	57.1	56.3	57.5	59.5	60.5	59.2	52.1	43.4	35.3
50°	58.0	63.1	59.8	55.8	51.4	54.6	58.1	57.6	53.1	45.0	37.6
47.5°	68.5	75.6	71.4	60.0	53.3	50.5	55.1	55.8	54.2	46.0	39.9
45°	96.7	95.6	89.2	75.3	58.5	54.1	52.4	54.4	53.0	48.4	42.2
42.5°	135.2	129.7	115.9	93.5	81.8	61.6	50.4	52.8	51.9	51.2	44.7
40°	202.7	174.2	150.7	136.8	116.8	71.5	57.8	51.6	51.4	53.9	47.4
37.5°	281.9	239.2	198.3	199.2	164.6	111.3	67.4	51.1	54.4	56.3	50.3
35°	397.4	322.2	296.8	284.1	233.6	158.1	78.3	54.9	58.8	59.3	53.3
32.5°	530.2	483.6	466.5	391.5	314.3	211.7	110.7	70.5	64.4	63.0	56.6
30°	843.3	769.0	689.4	515.9	410.6	287.1	163.6	86.5	71.1	67.4	59.9
27.5°	1348.3	1107.3	963.7	717.9	528.2	373.4	230.0	102.8	79.0	72.6	63.3
25°	1893.2	1554.9	1291.2	973.3	656.8	506.7	304.6	121.1	91.1	78.8	67.0
22.5°	2508.7	2038.9	1654.0	1259.4	860.9	661.5	400.5	179.5	104.9	85.7	70.9
20°	3132.6	2529.8	2066.6	1612.3	1127.0	837.3	521.2	241.4	118.7	93.0	75.0
17.5°	3785.2	3154.0	2630.2	2015.6	1425.0	1022.6	651.8	305.6	132.3	100.7	79.3
15°	4783.3	3948.5	3235.4	2455.6	1720.4	1214.6	789.4	370.8	145.6	108.7	88.0
12.5°	5820.5	4757.6	3866.6	2921.2	2010.3	1410.1	930.7	435.6	158.5	125.2	102.4
10°	6831.6	5570.5	4511.5	3400.3	2291.4	1605.7	1072.2	521.0	197.4	148.8	117.1
7.5°	7807.5	6375.4	5156.9	3879.6	2583.0	1862.8	1328.5	653.8	241.5	172.9	131.9
5°	8685.1	7081.7	5766.3	4382.4	2980.7	2179.4	1602.3	786.0	286.1	196.9	146.6
2.5°	9275.3	7620.4	6326.6	4851.9	3360.2	2484.0	1868.3	913.3	330.4	220.6	161.0
0°	9798.7	8107.0	6841.6	5277.6	3717.5	2774.4	2118.1	1031.5	373.3	243.6	174.9
-2.5°	9931.1	8227.4	7000.6	5538.0	4018.2	3039.8	2343.7	1214.1	512.5	329.7	229.6
-5°	9994.0	8307.3	7119.4	5755.4	4290.7	3287.2	2542.1	1380.9	646.7	413.5	282.8
-7.5°	10007.3	8371.3	7182.7	5911.8	4533.1	3514.9	2711.0	1529.6	773.4	493.5	333.9
-10°	9961.5	8397.0	7165.4	5871.1	4548.3	3608.8	2823.8	1658.0	890.1	568.6	382.0
-12.5°	9854.9	8363.7	7105.6	5780.7	4494.3	3574.0	2751.0	1706.6	990.3	637.5	426.5
-15°	9690.6	8267.4	7003.5	5638.8	4406.2	3516.4	2668.4	1714.2	1051.6	697.9	466.6
-17.5°	9386.4	8104.9	6859.6	5444.3	4282.9	3434.9	2580.3	1711.4	1104.0	749.9	504.8
-20°	8740.6	7691.7	6662.1	5196.1	4123.5	3328.8	2490.8	1699.6	1147.1	795.0	540.5



REPORT NUMBER: P731639 (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°	8055.1	7107.3	6135.7	4978.0	3955.5	3197.4	2403.5	1679.8	1180.6	832.4	571.0
-25°	7319.5	6513.6	5582.5	4621.5	3792.8	3061.3	2337.7	1653.1	1204.1	861.9	595.9
-27.5°	6630.8	5915.1	5062.5	4269.7	3562.4	2940.5	2286.6	1669.9	1223.5	883.0	614.9
-30°	5974.0	5353.1	4646.1	3945.3	3329.2	2780.7	2232.3	1676.6	1244.0	900.6	627.7
-32.5°	5500.1	4850.3	4267.8	3680.2	3124.8	2611.8	2127.3	1670.7	1253.0	912.9	637.6
-35°	5125.0	4477.8	3914.7	3418.2	2928.0	2453.3	2003.0	1652.2	1250.4	916.7	642.4
-37.5°	4737.5	4158.4	3633.9	3175.5	2725.6	2288.3	1898.7	1571.5	1236.0	911.6	640.9
-40°	4376.0	3843.8	3371.9	2950.0	2533.2	2117.2	1786.6	1490.7	1218.6	897.7	633.1
-42.5°	4001.5	3538.5	3115.8	2720.0	2340.9	1984.7	1669.8	1404.8	1159.9	879.8	618.9
-45°	3648.6	3230.3	2856.4	2504.3	2151.2	1845.3	1569.3	1316.1	1092.4	855.9	601.3
-47.5°	3290.3	2940.1	2608.7	2285.3	1990.8	1706.8	1463.6	1237.1	1021.7	823.1	581.8
-50°	2970.6	2663.4	2372.9	2095.5	1824.1	1585.8	1358.1	1154.5	956.9	765.5	556.5
-52.5°	2697.9	2413.1	2161.1	1914.0	1683.5	1459.8	1263.6	1069.7	889.4	711.5	525.5
-55°	2452.4	2190.2	1966.2	1754.0	1546.4	1349.5	1165.6	991.9	819.1	657.4	489.9
-57.5°	2241.4	1989.1	1795.4	1604.8	1421.7	1242.6	1072.9	911.5	753.2	600.7	457.5
-60°	2043.4	1829.2	1635.0	1469.8	1303.7	1139.4	982.3	831.3	686.5	543.5	416.9
-62.5°	1878.8	1674.7	1494.6	1341.1	1190.4	1040.8	890.6	754.1	617.3	490.2	372.2
-65°	1715.4	1531.4	1356.8	1220.6	1081.4	940.1	803.1	674.2	550.3	434.2	328.2
-67.5°	1548.1	1383.7	1232.3	1101.3	967.4	837.0	712.2	593.7	481.5	375.6	289.5
-70°	1370.9	1230.3	1095.4	968.4	846.8	729.4	616.8	510.8	409.9	325.3	249.0
-72.5°	1178.2	1055.1	939.3	828.8	718.9	614.9	517.3	427.1	346.6	273.1	206.7
-75°	971.4	868.5	770.8	676.7	584.1	497.1	420.7	349.5	281.3	219.0	168.3
-77.5°	749.9	669.5	593.6	523.1	452.2	386.3	325.7	269.6	217.0	171.7	130.8
-80°	536.5	480.9	426.7	373.7	321.1	273.0	234.9	198.1	159.5	124.2	92.3
-82.5°	335.7	301.9	270.8	240.7	210.7	182.0	154.7	128.6	100.9	75.7	61.0
-85°	180.7	161.7	143.4	125.7	107.5	90.2	81.7	73.3	63.1	53.6	44.9
-87.5°	73.6	69.7	65.8	61.9	57.2	52.5	48.0	43.6	38.3	33.3	28.7
-90°	6.4	6.9	7.4	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9



REPORT NUMBER: P731639 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	11.8	11.3	10.8	10.3	9.8	8.9	7.9
87.5°	11.4	10.5	9.8	9.1	8.6	8.2	7.9
85°	15.0	13.2	11.6	10.3	9.3	8.5	7.9
82.5°	18.5	15.8	13.5	11.5	9.9	8.8	7.9
80°	21.5	18.3	15.3	12.7	10.6	9.1	7.9
77.5°	21.9	20.0	17.0	13.8	11.3	9.4	7.9
75°	22.3	20.1	18.5	15.0	11.9	9.7	7.9
72.5°	22.6	20.2	18.4	16.1	12.5	9.9	7.9
70°	22.9	20.2	18.2	16.9	13.2	10.2	7.9
67.5°	23.7	20.2	18.1	16.7	13.8	10.5	7.9
65°	24.4	20.5	17.9	16.4	14.3	10.8	7.9
62.5°	25.1	21.2	17.7	16.2	14.9	11.0	7.9
60°	25.9	21.8	17.4	15.9	15.4	11.3	7.9
57.5°	27.1	22.5	17.9	15.6	15.3	11.5	7.9
55°	28.3	23.1	18.4	15.3	15.2	11.7	7.9
52.5°	29.6	23.8	18.9	15.0	15.2	11.9	7.9
50°	30.8	24.9	19.4	14.7	15.1	12.2	7.9
47.5°	32.2	26.0	19.9	14.5	15.1	12.4	7.9
45°	34.2	27.0	20.3	14.8	15.1	12.5	7.9
42.5°	36.2	28.1	20.7	15.1	15.1	12.7	7.9
40°	38.2	29.1	21.3	15.7	15.1	12.9	7.9
37.5°	40.1	30.2	22.1	16.5	15.2	13.0	7.9
35°	41.9	31.5	22.8	17.3	15.3	13.2	7.9
32.5°	43.9	32.9	23.5	18.2	15.4	13.3	7.9
30°	46.5	34.3	24.2	19.1	15.5	13.4	7.9
27.5°	49.0	35.5	26.1	20.0	15.6	13.5	7.9
25°	51.6	36.8	28.3	20.9	15.8	13.6	7.9
22.5°	54.1	39.0	30.6	21.9	15.9	13.7	7.9
20°	56.6	43.9	32.9	22.8	16.1	13.7	7.9
17.5°	63.2	49.0	35.3	23.7	16.3	13.8	7.9
15°	72.4	54.4	37.7	24.7	16.5	13.8	7.9
12.5°	81.8	59.9	40.1	25.6	16.7	13.9	7.9
10°	91.3	65.4	42.4	26.4	16.9	13.9	7.9
7.5°	100.7	70.9	44.8	27.3	17.1	13.9	7.9
5°	110.0	76.3	47.0	28.1	17.3	13.9	7.9
2.5°	119.1	81.5	49.1	28.8	17.5	13.8	7.9
0°	127.7	86.5	51.1	29.5	17.7	13.8	7.9
-2.5°	160.8	105.0	61.0	33.9	19.0	14.0	7.9
-5°	193.0	123.0	70.7	38.1	20.2	14.3	7.9
-7.5°	223.8	140.2	80.0	42.2	21.5	14.5	7.9
-10°	252.8	156.4	88.7	46.0	22.6	14.7	7.9
-12.5°	279.6	171.4	96.8	49.6	23.7	14.9	7.9
-15°	303.7	185.1	104.3	52.9	24.8	15.1	7.9
-17.5°	324.9	197.2	110.9	55.8	25.7	15.2	7.9
-20°	345.6	207.5	116.5	58.3	26.6	15.3	7.9



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	367.5	216.0	121.2	60.4	27.4	15.4	7.9
-25°	385.7	227.2	124.8	62.0	28.0	15.5	7.9
-27.5°	400.0	237.8	127.3	63.1	28.6	15.6	7.9
-30°	410.0	245.8	129.0	63.7	29.0	15.6	7.9
-32.5°	415.6	251.0	132.9	63.7	29.3	15.6	7.9
-35°	420.1	253.3	135.3	63.2	29.5	15.6	7.9
-37.5°	421.7	253.9	136.1	62.1	29.6	15.5	7.9
-40°	419.0	254.1	135.2	60.4	29.5	15.4	7.9
-42.5°	411.9	251.5	134.0	58.7	29.3	15.3	7.9
-45°	400.4	246.4	132.7	57.7	28.9	15.2	7.9
-47.5°	384.6	238.6	130.0	55.9	28.4	15.0	7.9
-50°	369.9	228.2	126.0	55.3	27.8	14.8	7.9
-52.5°	352.4	215.2	120.5	54.7	27.0	14.6	7.9
-55°	331.4	204.2	113.8	53.5	26.1	14.4	7.9
-57.5°	306.9	192.1	105.7	51.6	25.1	14.1	7.9
-60°	280.0	177.9	96.6	49.1	23.9	13.8	7.9
-62.5°	257.3	162.0	90.2	46.0	23.1	13.5	7.9
-65°	232.2	144.3	82.7	42.4	22.1	13.1	7.9
-67.5°	204.8	127.6	74.2	38.3	21.1	12.8	7.9
-70°	175.3	111.9	64.9	33.8	20.0	12.4	7.9
-72.5°	149.0	95.0	54.8	30.8	18.9	12.0	7.9
-75°	121.9	76.9	44.1	28.2	17.7	11.6	7.9
-77.5°	93.4	58.0	38.0	25.5	16.4	11.1	7.9
-80°	63.8	45.8	32.8	22.6	15.2	10.7	7.9
-82.5°	49.5	37.4	27.5	19.6	13.9	10.2	7.9
-85°	37.1	28.8	22.0	16.5	12.5	9.8	7.9
-87.5°	24.5	20.1	16.4	13.4	11.2	9.3	7.9
-90°	7.9	7.9	7.9	7.9	7.9	7.9	7.9

(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

