

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: P731445 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-80-5S-VHE**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731445 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-57-80-5S-VHE  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 5700K, 80 CRI LEDS AND 5S BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

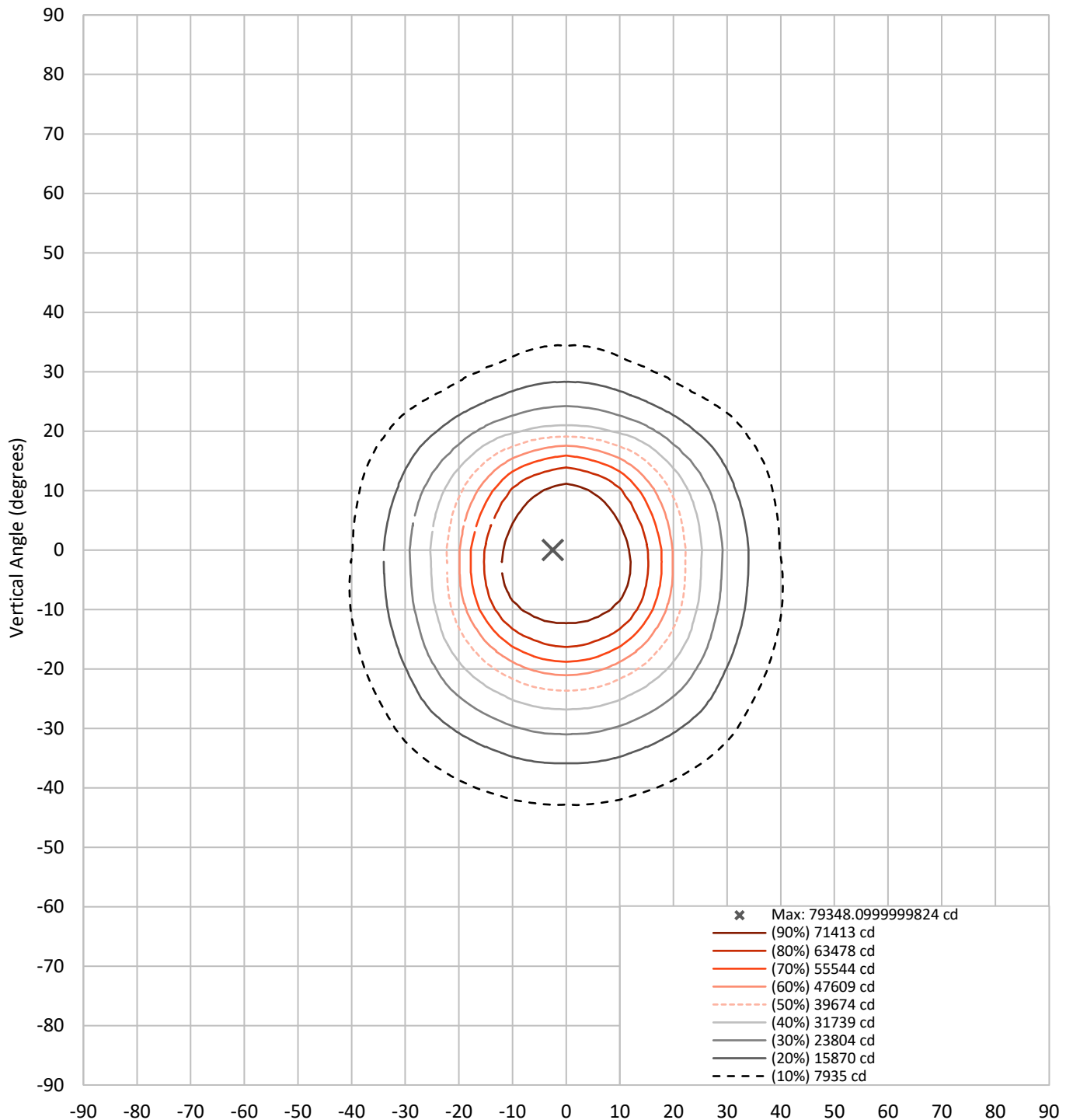
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	51666.3 lumens	Max Intensity:	79348.1 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	149.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	44.5°H x 42.5°V	Field Angle (10%):	79.6°H x 77.3°V
Beam Lumens:	28369.7 lumens	Field Lumens:	47475 lumens
Beam Efficiency:	54.9%	Field Efficiency:	91.9%

Input Watts (W): 345.8  
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





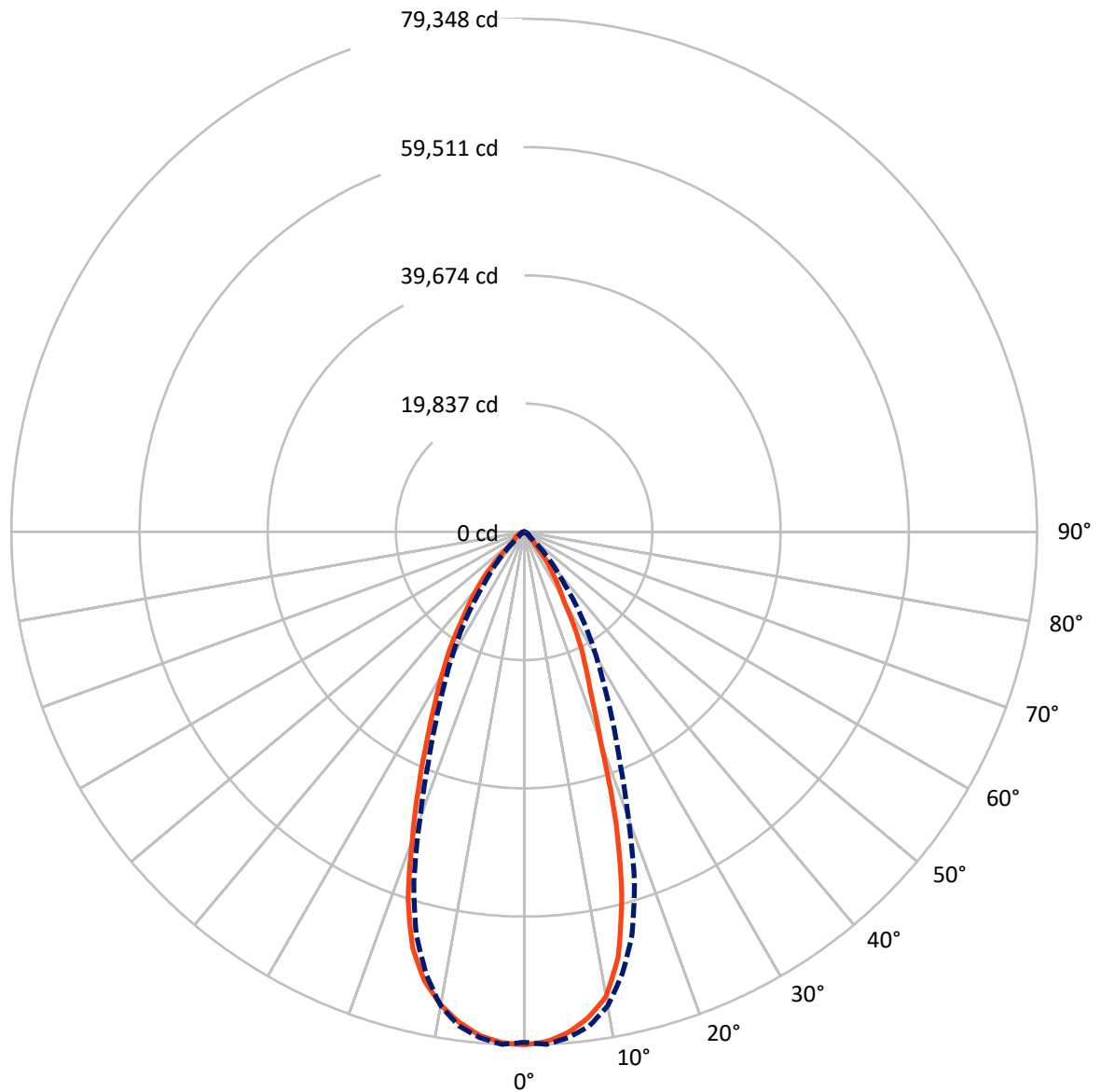
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### Lumen Table

90																
80	0.2	0.8		1.3		1.8		2.0		1.8		1.3		0.8		0.2
70																
60	0.2	0.1	0.2	0.3	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.3	0.2	0.1	0.2
50		0.3	0.4	0.7	0.8	0.6	0.7	0.7	0.7	0.7	0.6	0.8	0.7	0.4	0.3	
40	0.6	0.7	1.5	3.1	5.6	11.4	25.1	33.8	33.8	25.1	11.4	5.6	3.1	1.5	0.7	0.6
30		1.6	5.1	10.5	26.6	78.8	146.1	215.2	215.2	146.1	78.8	26.6	10.5	5.1	1.6	
20	1.3	2.7	8.9	22.7	109.4	258.6	475.3	652.6	652.6	475.3	258.6	109.4	22.7	8.9	2.7	1.3
10		3.7	11.9	51.4	238.9	590.6	1149.0	1642.1	1642.1	1149.0	590.6	238.9	51.4	11.9	3.7	
0	1.9	4.6	14.0	78.0	336.3	857.6	1720.4	2282.2	2282.2	1720.4	857.6	336.3	78.0	14.0	4.6	1.9
-10		5.1	15.6	83.2	362.4	899.3	1825.2	2317.9	2317.9	1825.2	899.3	362.4	83.2	15.6	5.1	
-20	2.2	5.2	16.5	68.6	308.5	751.5	1415.8	1911.6	1911.6	1415.8	751.5	308.5	68.6	16.5	5.2	2.2
-30		5.0	16.5	42.6	200.1	497.6	827.5	1072.6	1072.6	827.5	497.6	200.1	42.6	16.5	5.0	
-40	2.2	4.5	14.4	30.7	81.4	242.1	407.3	517.5	517.5	407.3	242.1	81.4	30.7	14.4	4.5	2.2
-50		3.7	10.7	23.2	39.3	64.2	120.2	168.4	168.4	120.2	64.2	39.3	23.2	10.7	3.7	
-60	2.0	3.1	7.1	14.5	25.7	36.0	44.3	50.7	50.7	44.3	36.0	25.7	14.5	7.1	3.1	2.0
-70		2.5	4.7	8.2	13.3	18.2	23.2	26.7	26.7	23.2	18.2	13.3	8.2	4.7	2.5	
-80																
-90	1.5	9.0		20.0		31.4		38.5		31.4		20.0		9.0		1.5

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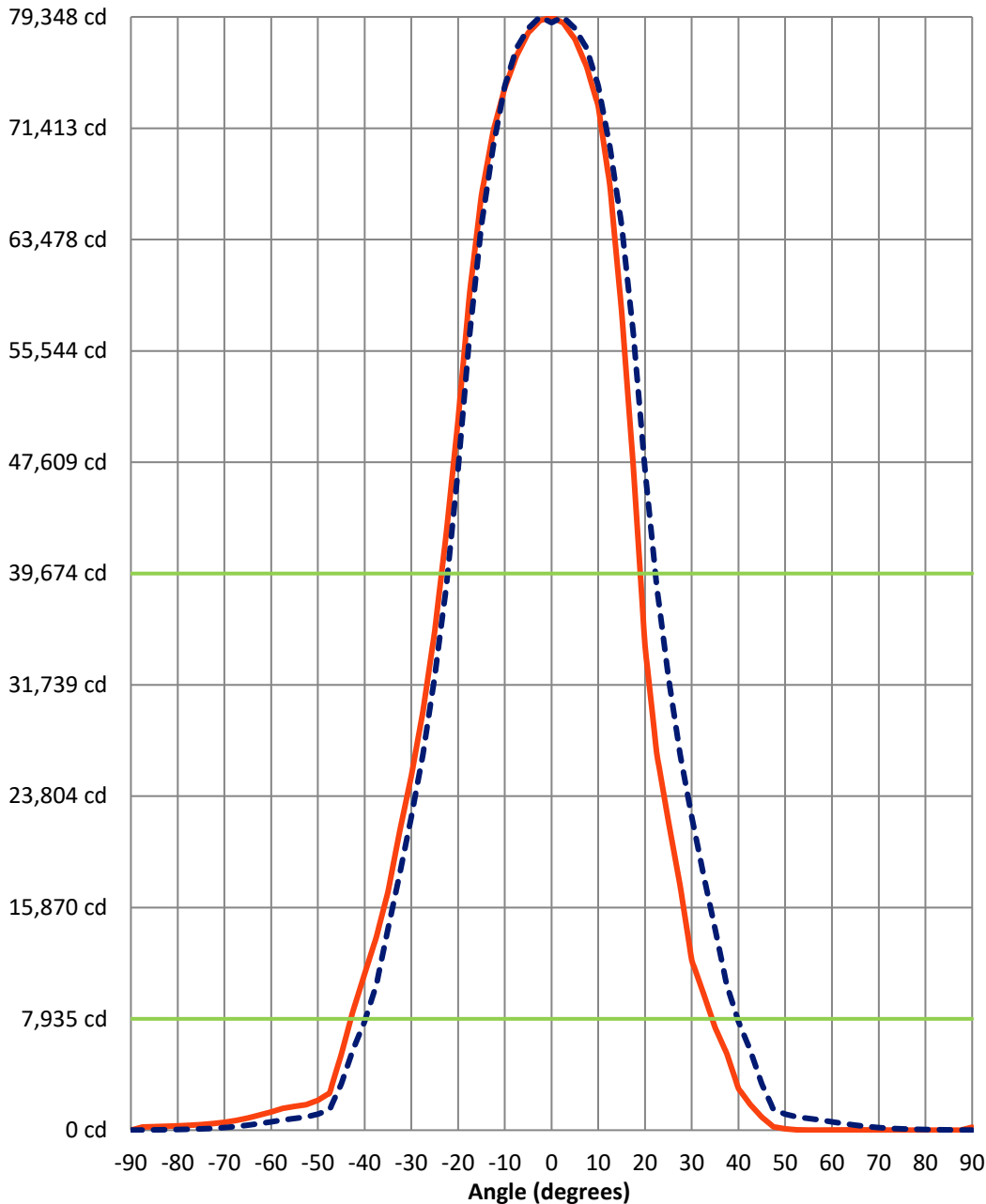
### Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg      - - - Horizontal Distribution Through 0-Deg

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 44.5°  
 V Angle: 42.5°  
 Lumens: 28369.7  
 Efficiency: 54.9%

**Field:**  
 H Angle: 79.6°  
 V Angle: 77.3°  
 Lumens: 47475  
 Efficiency: 91.9%

**Spill:**  
 Lumens: 4191.3  
 Efficiency: 8.1%

— Vertical Distribution through -2.5-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°	6.9	13.4	20.0	33.0	46.1	58.3	70.5	80.5	90.4	97.6	104.8
87.5°	6.9	6.4	5.8	5.8	5.8	5.9	5.9	5.7	5.4	5.3	5.3
85°	6.9	6.5	5.9	6.0	6.1	6.2	6.3	6.1	5.8	5.7	5.5
82.5°	6.9	6.7	6.1	6.2	6.3	6.4	6.6	6.4	6.3	6.1	5.8
80°	6.9	6.8	6.3	6.4	6.5	6.7	6.9	6.8	6.7	6.5	6.1
77.5°	6.9	6.9	6.5	6.6	6.7	7.0	7.3	7.2	7.2	6.9	6.4
75°	6.9	7.1	6.7	6.9	7.0	7.5	7.6	7.6	7.6	7.2	6.7
72.5°	6.9	7.2	6.9	7.1	7.5	7.9	8.0	8.0	7.9	7.5	7.1
70°	6.9	7.4	7.1	7.3	7.9	8.3	8.4	8.5	8.2	7.8	7.7
67.5°	6.9	7.5	7.3	7.7	8.3	8.8	8.9	9.0	8.7	8.5	8.3
65°	6.9	7.7	7.5	8.0	8.8	9.3	9.5	9.5	9.5	9.3	9.3
62.5°	6.9	7.8	7.7	8.4	9.2	9.8	10.1	10.3	10.4	10.3	10.8
60°	6.9	8.0	8.0	8.8	9.7	10.3	10.6	11.3	11.4	12.4	12.6
57.5°	6.9	8.1	8.4	9.1	10.3	10.8	11.8	12.3	14.0	15.0	16.0
55°	6.9	8.3	8.8	9.5	11.0	11.3	13.2	13.6	17.4	18.6	20.6
52.5°	6.9	8.4	9.3	9.8	11.7	12.0	14.7	17.2	21.2	24.2	25.7
50°	6.9	8.6	9.7	10.2	12.5	13.8	16.3	21.0	25.7	30.2	33.2
47.5°	6.9	8.7	10.2	10.6	13.3	15.6	18.3	24.9	31.5	36.5	41.6
45°	6.9	8.9	10.8	11.3	14.2	17.5	21.7	28.9	37.5	44.6	50.4
42.5°	6.9	9.0	11.3	12.0	15.2	19.5	25.2	33.7	43.6	53.0	63.9
40°	6.9	9.2	11.9	13.1	16.5	21.6	28.8	39.2	50.4	61.8	78.8
37.5°	6.9	9.3	12.5	14.3	18.1	23.8	32.8	44.8	58.3	72.3	94.5
35°	6.9	9.5	13.1	15.6	19.8	26.6	36.8	50.5	66.5	86.5	112.7
32.5°	6.9	9.6	13.7	16.9	21.5	29.8	41.2	56.5	74.8	101.0	133.4
30°	6.9	9.8	14.4	18.2	23.1	33.0	46.2	62.8	83.3	115.7	153.7
27.5°	6.9	9.9	15.0	19.6	25.4	36.1	51.1	69.7	92.9	130.6	173.6
25°	6.9	10.1	15.7	20.9	27.7	39.2	55.9	76.3	103.9	146.6	193.1
22.5°	6.9	10.2	16.3	22.3	30.0	42.3	60.5	82.6	114.3	160.4	213.7
20°	6.9	10.3	17.0	23.7	32.2	45.7	65.0	88.6	124.1	173.4	231.0
17.5°	6.9	10.5	17.7	25.0	34.4	49.0	69.5	94.3	133.3	185.7	247.2
15°	6.9	10.6	18.3	26.4	36.5	52.1	73.9	99.9	141.7	197.0	262.7
12.5°	6.9	10.7	18.9	27.7	38.5	55.0	77.9	105.3	150.2	207.5	277.2
10°	6.9	10.8	19.6	29.0	40.4	57.8	81.8	110.5	158.6	219.9	292.5
7.5°	6.9	10.9	20.2	30.2	42.3	60.5	85.3	115.2	166.4	231.9	310.7
5°	6.9	11.0	20.7	31.4	44.1	62.9	88.6	119.6	173.5	243.1	327.9
2.5°	6.9	11.1	21.3	32.6	45.8	65.2	91.5	123.6	179.8	253.1	343.8
0°	6.9	11.2	21.8	33.7	47.4	67.3	94.2	127.2	185.2	261.9	357.9
-2.5°	6.9	11.6	22.7	35.2	49.6	70.4	98.2	132.4	191.5	269.3	365.2
-5°	6.9	12.1	23.6	36.6	51.7	73.3	101.9	137.1	196.9	275.4	370.6
-7.5°	6.9	12.5	24.5	37.9	53.7	75.9	105.2	141.2	201.3	279.9	374.2
-10°	6.9	12.9	25.3	39.2	55.5	78.3	108.1	144.9	204.6	283.0	375.9
-12.5°	6.9	13.2	26.0	40.3	57.2	80.5	110.7	147.9	206.9	284.6	378.5
-15°	6.9	13.6	26.7	41.4	58.7	82.4	112.9	150.4	208.1	285.0	379.9
-17.5°	6.9	14.0	27.3	42.4	60.1	84.0	114.6	152.5	208.4	283.8	378.3
-20°	6.9	14.3	27.9	43.3	61.3	85.3	116.2	154.3	207.7	280.9	373.6



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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°	6.9	14.6	28.4	44.1	62.3	86.3	117.8	155.5	205.8	276.2	366.1
-25°	6.9	14.9	28.9	44.8	63.2	87.5	118.9	156.2	202.9	269.8	359.6
-27.5°	6.9	15.2	29.3	45.4	63.9	88.7	119.6	156.3	198.9	265.5	354.7
-30°	6.9	15.4	29.6	45.9	64.5	89.5	119.8	155.8	197.2	262.1	347.3
-32.5°	6.9	15.6	29.9	46.2	65.5	90.1	119.6	155.4	197.1	256.8	336.9
-35°	6.9	15.8	30.1	46.5	66.4	90.4	119.7	154.9	195.9	249.8	323.7
-37.5°	6.9	16.0	30.2	46.7	67.2	90.7	119.6	153.9	193.8	240.9	311.6
-40°	6.9	16.1	30.3	46.7	67.7	91.4	119.3	152.3	190.8	235.5	300.0
-42.5°	6.9	16.2	30.3	46.9	68.2	91.8	118.6	150.1	187.8	231.1	286.4
-45°	6.9	16.3	30.3	47.1	68.5	92.0	117.6	147.9	184.5	225.4	272.2
-47.5°	6.9	16.4	30.1	47.2	68.7	92.0	116.2	146.2	180.3	218.5	264.2
-50°	6.9	16.4	29.9	47.3	68.6	91.8	115.6	143.9	175.1	212.3	254.8
-52.5°	6.9	16.4	29.7	47.2	68.3	91.3	115.0	141.2	170.6	204.9	243.4
-55°	6.9	16.4	29.4	47.0	67.7	90.5	114.0	138.1	166.3	196.4	231.9
-57.5°	6.9	16.3	29.0	46.7	67.0	89.4	112.8	136.5	161.3	189.7	219.4
-60°	6.9	16.2	28.5	46.2	66.0	88.0	111.2	134.3	156.3	183.1	207.5
-62.5°	6.9	16.1	28.1	45.6	65.1	86.4	109.1	131.7	153.1	175.5	198.0
-65°	6.9	16.0	27.7	44.8	64.0	84.6	106.7	128.6	149.4	169.6	187.9
-67.5°	6.9	15.8	27.2	44.0	62.7	82.5	104.0	124.9	145.4	164.0	180.1
-70°	6.9	15.6	26.6	43.0	61.2	80.3	101.1	120.9	140.5	158.0	173.1
-72.5°	6.9	15.4	25.9	42.1	59.6	77.8	97.5	116.6	135.2	151.2	165.6
-75°	6.9	15.2	25.2	41.1	57.8	75.1	93.6	111.5	129.6	144.1	157.6
-77.5°	6.9	15.0	24.5	40.0	56.1	72.1	89.4	105.9	122.8	136.5	149.4
-80°	6.9	14.7	23.7	38.8	54.3	69.4	84.9	100.1	115.7	127.9	139.8
-82.5°	6.9	14.4	22.8	37.5	52.5	66.8	81.4	94.7	108.3	119.0	129.7
-85°	6.9	14.1	21.9	36.1	50.4	64.1	77.9	90.1	102.5	111.4	120.3
-87.5°	6.9	13.8	21.0	34.6	48.3	61.3	74.3	85.3	96.5	104.6	112.6
-90°	6.9	6.3	5.6	5.6	5.6	5.6	5.6	5.3	5.0	5.0	5.0





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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°	109.2	113.5	117.6	121.6	126.6	131.6	136.9	142.2	147.8	153.4	158.7
87.5°	5.0	4.7	4.7	4.7	4.4	4.2	3.9	3.7	3.4	3.1	3.0
85°	5.3	5.0	5.0	5.0	4.8	4.6	4.3	4.0	3.7	3.4	3.5
82.5°	5.7	5.6	5.4	5.0	5.0	5.0	4.7	4.4	4.2	3.9	3.8
80°	6.1	6.2	5.7	5.3	5.1	5.0	4.8	4.5	4.4	4.4	4.2
77.5°	6.3	6.2	5.9	5.6	5.4	5.2	5.0	4.8	4.7	4.5	4.4
75°	6.5	6.3	6.1	5.8	5.5	5.5	5.4	5.3	5.1	5.1	5.2
72.5°	6.9	6.7	6.4	5.9	5.7	5.9	5.9	5.7	5.9	6.1	6.1
70°	7.4	7.2	6.8	6.3	6.1	6.3	6.6	7.1	7.6	7.7	8.3
67.5°	8.1	7.8	7.2	6.9	6.7	7.1	7.5	9.0	10.5	11.3	12.1
65°	9.0	8.5	8.0	7.9	7.5	9.0	10.3	11.9	14.9	16.3	16.2
62.5°	10.1	10.2	9.4	9.6	10.9	12.2	14.4	17.9	21.3	22.7	21.5
60°	12.8	12.4	12.4	13.3	14.6	16.3	19.7	24.0	28.0	30.1	26.9
57.5°	16.3	16.2	17.1	17.7	19.5	20.0	24.7	30.0	33.4	36.0	31.7
55°	21.4	21.6	23.3	23.9	25.3	25.2	29.2	34.2	37.7	38.9	34.4
52.5°	28.3	28.7	31.9	32.4	32.0	32.4	33.9	39.2	42.1	42.2	38.3
50°	36.0	40.0	42.0	43.4	41.0	42.5	41.1	47.0	51.4	51.0	52.4
47.5°	47.4	52.7	55.7	57.9	56.1	60.7	59.7	68.7	71.8	89.0	91.7
45°	60.9	69.4	73.4	78.2	83.6	89.2	103.7	103.7	144.3	160.2	202.2
42.5°	76.0	88.8	99.8	101.7	128.6	144.3	164.1	204.7	244.2	293.9	312.9
40°	96.0	110.3	132.7	158.1	187.9	221.9	258.7	308.0	360.0	385.7	388.9
37.5°	118.2	145.0	176.3	222.3	268.1	312.9	359.5	407.7	445.1	454.7	489.5
35°	142.1	181.3	239.8	292.6	345.9	407.7	449.2	493.6	516.1	555.5	622.6
32.5°	172.1	218.6	291.3	360.0	419.3	486.5	526.2	560.2	613.0	681.3	829.6
30°	203.4	260.7	334.2	413.5	486.5	542.9	588.1	630.8	713.5	878.4	1387.0
27.5°	229.5	296.9	374.1	462.6	545.8	597.3	648.5	723.0	870.7	1210.5	2175.3
25°	253.0	326.0	413.2	515.9	597.4	654.1	720.8	826.0	1057.7	1980.1	3216.4
22.5°	275.8	354.8	457.9	572.0	649.8	709.9	811.0	1001.0	1486.6	2783.3	4269.1
20°	299.4	391.6	506.4	624.1	699.9	759.4	889.9	1171.0	2165.0	3647.9	5198.1
17.5°	324.1	428.6	553.7	661.2	732.1	811.3	973.0	1310.4	2731.3	4455.5	6190.7
15°	348.3	464.2	594.1	693.2	761.6	867.3	1084.6	1721.6	3330.1	5357.2	7252.0
12.5°	371.4	496.5	625.4	718.2	790.6	919.4	1176.3	2174.5	4050.1	6194.4	8174.6
10°	393.3	525.4	651.7	741.9	822.2	975.1	1264.6	2617.9	4680.5	6738.5	8744.1
7.5°	415.7	549.5	674.0	764.6	852.7	1027.6	1361.8	2962.4	5151.1	7157.0	9184.1
5°	435.9	568.0	695.4	789.9	884.1	1074.2	1440.5	3225.7	5504.2	7502.8	9576.0
2.5°	453.7	582.6	713.6	813.7	914.7	1113.2	1463.1	3299.0	5670.2	7688.9	9961.4
0°	468.9	593.6	728.3	834.9	942.2	1144.9	1469.1	3286.2	5711.2	7745.2	10336.8
-2.5°	477.5	607.8	754.7	865.3	966.9	1170.4	1500.2	3291.0	5745.9	8140.0	10819.4
-5°	483.6	618.5	776.3	892.3	988.7	1188.4	1517.5	3216.2	5699.0	8347.8	10960.5
-7.5°	487.0	625.2	792.2	914.8	1008.5	1201.4	1527.2	3094.5	5701.6	8357.3	10783.1
-10°	488.8	631.6	799.7	927.4	1025.5	1207.7	1522.5	2885.6	5475.2	8131.1	10490.7
-12.5°	494.7	637.4	802.3	936.7	1039.1	1209.1	1529.5	2681.1	5050.6	7719.3	10072.9
-15°	497.0	639.0	800.8	944.4	1061.0	1223.9	1529.7	2363.5	4499.5	7196.7	9547.4
-17.5°	495.4	636.0	796.3	955.5	1081.3	1225.1	1495.0	1946.9	3869.9	6453.3	8855.5
-20°	490.0	629.5	786.3	961.0	1092.9	1235.2	1484.8	1879.3	3253.0	5523.8	8015.4



REPORT NUMBER: P731445 (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°	482.2	619.3	772.1	948.9	1106.1	1257.5	1470.9	1789.3	2527.4	4461.9	6975.4
-25°	472.8	608.0	756.8	935.0	1112.2	1271.7	1427.7	1669.2	2101.4	3553.4	5688.2
-27.5°	463.1	591.9	740.5	911.8	1108.6	1264.9	1402.4	1602.6	1908.1	2544.1	4347.0
-30°	450.7	572.7	716.5	881.7	1075.7	1244.0	1386.9	1516.5	1725.1	2107.3	3189.5
-32.5°	435.5	550.1	689.8	847.5	1026.2	1219.0	1351.1	1463.7	1622.7	1856.9	2300.9
-35°	418.4	530.2	660.2	804.3	967.5	1156.2	1297.3	1416.5	1523.8	1704.1	1988.0
-37.5°	401.0	505.5	622.0	758.7	914.0	1068.1	1234.6	1353.3	1461.5	1574.6	1776.9
-40°	380.6	475.0	584.0	710.4	842.2	981.9	1136.4	1285.1	1392.0	1509.9	1631.2
-42.5°	358.3	445.9	543.4	653.0	771.2	896.9	1034.0	1182.9	1326.2	1438.9	1550.4
-45°	340.3	414.5	500.1	597.7	699.5	811.3	936.3	1066.8	1218.9	1364.8	1467.9
-47.5°	318.5	383.3	462.2	539.6	631.7	731.4	838.2	961.8	1089.3	1233.1	1374.1
-50°	297.7	357.1	417.8	487.6	565.7	653.4	748.6	857.4	975.4	1093.1	1221.0
-52.5°	283.5	328.9	380.6	435.6	503.9	579.1	663.5	755.9	859.2	962.1	1073.0
-55°	267.8	307.1	344.3	390.9	444.6	509.8	583.1	663.8	742.7	836.6	930.7
-57.5°	252.6	285.2	315.0	350.8	395.6	443.5	510.1	577.3	645.8	718.5	798.1
-60°	237.1	263.8	289.9	318.8	351.5	393.9	440.2	496.4	552.3	610.5	680.9
-62.5°	221.7	243.4	265.8	290.7	318.5	347.2	385.0	425.9	465.1	518.1	574.2
-65°	209.3	224.2	242.7	264.7	287.1	313.3	339.7	365.3	399.7	439.9	480.5
-67.5°	195.9	209.9	223.5	238.9	259.2	280.8	302.6	325.6	349.0	376.6	406.3
-70°	186.2	196.1	208.2	220.9	234.2	249.9	269.3	288.4	308.0	331.0	354.7
-72.5°	177.0	186.1	195.1	204.1	216.0	229.0	241.8	254.6	271.0	290.6	309.5
-75°	167.6	176.0	184.2	192.4	201.4	211.1	221.1	232.7	245.4	259.0	272.1
-77.5°	157.9	165.4	172.9	180.4	188.7	197.2	206.0	214.8	224.8	235.4	245.5
-80°	147.6	154.6	161.3	168.0	175.5	183.1	190.9	198.8	207.7	216.8	225.2
-82.5°	136.3	142.4	148.7	154.9	161.8	168.7	175.6	182.5	190.3	198.2	205.5
-85°	125.4	130.2	135.7	141.2	147.5	153.7	159.9	166.1	173.3	180.4	186.6
-87.5°	117.3	121.9	126.4	130.9	136.2	141.6	146.9	152.3	158.5	164.8	170.3
-90°	4.7	4.4	4.4	4.4	4.1	3.7	3.7	3.7	3.4	3.1	2.8



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	164.0	167.5	170.9	173.7	176.5	180.3	184.0	189.0	193.9	198.9	203.9
87.5°	3.0	2.8	2.5	2.5	2.4	2.5	2.5	2.2	1.9	1.9	1.9
85°	3.5	3.4	3.4	3.2	3.0	3.0	3.0	3.0	3.0	2.8	2.5
82.5°	3.7	3.7	3.7	3.4	3.1	3.1	3.1	3.1	3.1	2.8	2.5
80°	3.9	3.8	3.7	3.6	3.5	3.3	3.1	2.9	2.6	2.5	2.5
77.5°	4.5	4.3	4.0	3.9	3.7	3.5	3.2	2.8	2.5	2.5	2.5
75°	5.0	4.9	4.7	4.5	4.1	4.0	3.9	3.8	3.5	3.5	3.6
72.5°	6.0	5.9	5.9	6.1	6.1	6.3	6.6	6.8	7.0	7.5	8.1
70°	9.0	9.6	9.9	10.1	10.0	9.9	9.9	10.0	10.3	10.6	10.9
67.5°	13.1	14.1	14.6	14.9	13.9	13.4	13.4	13.7	14.2	15.1	16.3
65°	17.1	16.8	16.4	16.1	16.2	16.3	16.2	16.4	17.2	18.5	20.1
62.5°	20.1	17.4	15.8	15.0	15.5	16.5	15.8	15.3	16.0	16.9	17.7
60°	23.0	18.0	14.4	13.2	13.0	13.5	12.4	11.4	11.7	12.0	12.4
57.5°	25.7	19.2	13.3	11.3	9.5	8.6	8.3	7.9	7.7	7.6	7.6
55°	28.2	20.9	13.1	11.6	10.3	10.0	9.2	8.7	8.3	8.2	8.4
52.5°	31.2	26.9	21.5	20.0	22.5	22.7	20.0	23.8	26.7	28.0	28.5
50°	51.1	45.8	55.0	54.2	64.9	72.5	69.8	78.3	90.9	98.8	102.1
47.5°	112.4	112.6	130.7	146.8	160.1	177.5	190.9	203.8	221.8	232.9	238.0
45°	213.2	231.3	250.3	277.9	304.3	336.5	375.3	405.8	528.1	649.9	760.7
42.5°	326.3	346.3	374.0	434.1	505.5	670.8	966.4	1131.4	1337.4	1561.6	1647.6
40°	420.5	449.4	525.6	694.8	1106.9	1499.3	1930.4	2294.9	2617.5	2803.2	2958.3
37.5°	536.8	605.8	952.7	1431.7	1944.1	2435.9	2879.9	3265.0	3599.4	3870.5	4138.9
35°	706.4	1164.5	1677.0	2299.8	2844.5	3300.1	3760.0	4201.4	4580.6	4985.6	5587.4
32.5°	1339.1	1937.9	2597.1	3155.3	3687.7	4262.6	4745.8	5452.1	6005.2	6743.6	7872.1
30°	2149.3	2900.9	3498.6	4057.0	4739.6	5513.2	6320.1	7400.3	8529.1	9706.6	10918.3
27.5°	3189.6	3948.7	4578.9	5323.7	6225.0	7254.4	8797.3	10319.8	11938.7	13411.2	14530.2
25°	4443.6	5247.4	6324.6	7405.3	8695.1	10454.3	12187.7	14053.3	15676.3	17121.3	18738.8
22.5°	5618.7	6936.5	8359.0	9990.4	12090.8	14074.9	16218.1	18106.1	20142.8	22202.4	23795.2
20°	6610.9	8327.6	10368.2	12720.0	15048.2	17295.8	19789.8	22799.1	25831.4	28540.4	30506.2
17.5°	7949.2	10123.4	12663.4	15458.9	17965.3	20750.6	24221.8	28131.8	32380.7	36140.2	39121.0
15°	9411.5	11950.4	14822.4	17751.5	20922.5	24654.7	29118.1	34111.6	39308.9	44580.4	49491.6
12.5°	10405.6	13380.1	16516.3	19999.1	23954.4	28958.3	34378.1	39913.7	45853.1	52412.2	58109.2
10°	11255.4	14555.4	18339.1	22390.2	26935.0	32314.2	37915.8	44639.4	52053.1	58512.2	64614.2
7.5°	12096.0	15973.7	19926.1	24144.2	29137.4	34979.9	41609.5	48840.6	56385.4	63406.0	68396.0
5°	13090.7	17113.6	21065.7	25521.5	30750.5	36827.8	43820.4	52124.1	60073.4	66526.7	71027.5
2.5°	13913.2	17797.4	21844.3	26254.3	31628.4	37973.6	45563.0	54790.8	62947.6	68981.7	73054.3
0°	14331.9	18235.4	22334.1	26815.6	32324.7	38799.2	47079.4	56773.3	64482.4	70056.6	74418.2
-2.5°	14383.0	18096.2	22119.3	26539.4	31923.8	38526.6	47015.2	56823.6	64881.9	70675.5	74978.7
-5°	14234.3	17912.8	21928.2	26351.0	31662.5	38540.2	47063.3	56494.8	64281.4	70282.7	74335.2
-7.5°	13875.8	17575.9	21598.8	25956.4	31184.5	37854.9	45804.2	54353.2	62362.4	68846.7	72585.2
-10°	13350.7	16986.2	20947.0	25118.5	30049.0	36216.0	43325.3	51152.0	59245.4	65445.3	69756.5
-12.5°	12686.4	16127.2	19913.5	23857.3	28512.2	34257.9	40595.1	47148.8	53933.3	61001.5	65491.9
-15°	11923.9	15067.9	18612.1	22577.1	27179.2	31967.6	37001.5	42340.9	48543.0	54324.6	59551.5
-17.5°	11200.3	13908.1	17215.1	21078.2	24997.0	29157.7	33471.8	37831.1	42804.6	47343.0	51403.0
-20°	10291.0	12596.7	15643.6	19076.1	22717.6	26322.8	30028.3	33560.1	37170.7	40864.7	44089.2



REPORT NUMBER: P731445 (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°	9219.2	11461.5	14003.6	16992.3	20488.4	23696.9	26664.8	29424.9	32318.8	34874.9	37528.6
-25°	8051.6	10207.5	12543.7	15268.2	17952.4	20861.2	23324.4	25671.6	27916.4	29923.5	31987.0
-27.5°	6617.8	8893.8	11196.5	13377.1	15592.2	17680.7	19977.3	22142.9	24015.0	25670.8	27306.2
-30°	5002.5	7418.3	9596.5	11467.2	13223.2	14965.1	16723.4	18540.5	20312.8	21820.5	23160.1
-32.5°	3691.0	5706.2	7719.7	9552.8	11089.7	12529.3	13896.7	15322.4	16562.0	17834.7	19073.4
-35°	2442.0	3866.4	5537.9	7401.4	9002.1	10213.2	11453.0	12589.7	13524.2	14510.9	15446.0
-37.5°	2055.1	2434.2	3552.4	5065.3	6547.8	7940.5	9177.0	10165.2	11025.2	11813.3	12621.0
-40°	1812.9	2029.1	2347.3	2896.9	4143.7	5368.9	6642.8	7693.1	8609.4	9364.9	10108.5
-42.5°	1653.9	1802.2	1960.7	2177.2	2390.6	2990.6	4036.3	4943.0	5802.3	6653.5	7419.6
-45°	1571.5	1654.8	1745.4	1863.1	1954.4	2117.0	2298.6	2469.3	3153.2	3892.3	4510.9
-47.5°	1472.7	1561.5	1629.2	1684.7	1729.0	1800.5	1876.0	1974.7	2133.0	2319.7	2462.2
-50°	1346.3	1454.2	1521.7	1577.3	1609.2	1636.8	1664.0	1725.9	1811.7	1913.5	1994.2
-52.5°	1183.0	1289.6	1385.4	1457.7	1492.9	1527.3	1561.5	1604.0	1652.7	1711.5	1753.7
-55°	1029.0	1118.1	1201.0	1268.4	1329.2	1384.6	1437.8	1482.8	1535.4	1591.4	1630.7
-57.5°	882.9	954.9	1022.9	1081.2	1133.9	1180.5	1234.9	1294.0	1361.3	1425.5	1470.6
-60°	746.5	803.7	860.2	907.6	950.4	988.6	1038.9	1088.5	1147.5	1200.1	1238.3
-62.5°	624.3	674.3	716.1	751.9	784.1	816.1	858.4	899.9	948.4	990.4	1022.2
-65°	518.7	560.4	589.8	616.4	639.8	667.0	699.8	733.0	771.2	803.8	829.9
-67.5°	437.3	465.6	484.1	500.5	519.8	541.5	566.2	592.8	622.5	647.1	667.1
-70°	375.7	393.3	404.5	416.8	431.0	446.0	462.7	482.7	505.2	524.5	541.1
-72.5°	327.0	340.5	349.7	359.2	367.7	378.0	389.2	404.2	420.9	435.9	449.8
-75°	284.8	294.4	303.0	311.3	318.7	327.4	336.4	348.9	362.6	375.0	386.7
-77.5°	256.4	263.8	269.6	275.1	280.5	287.7	295.1	305.3	315.9	326.1	336.1
-80°	233.7	239.4	244.3	248.3	252.0	258.1	264.5	272.8	281.3	290.1	298.9
-82.5°	212.6	217.6	222.3	226.1	229.6	235.2	240.9	248.3	255.8	263.2	270.5
-85°	192.8	197.4	201.8	205.5	209.1	213.6	218.0	224.4	230.9	237.6	244.3
-87.5°	175.7	180.0	184.3	187.2	190.0	194.0	198.0	203.5	208.9	214.7	220.4
-90°	2.5	2.5	2.5	2.2	1.9	1.9	1.9	1.6	1.2	1.2	1.2



REPORT NUMBER: P731445 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-5S-VHE

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	206.4	208.9	210.2	211.4	210.2	208.9	206.4	203.9	198.9	193.9	189.0
87.5°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.9	1.9	1.9	2.2
85°	2.2	1.9	2.2	2.5	2.2	1.9	2.2	2.5	2.8	3.0	3.0
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.8	3.1	3.1
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.9
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.8
75°	3.4	3.1	3.1	3.1	3.1	3.1	3.4	3.6	3.5	3.5	3.8
72.5°	8.4	8.5	9.0	9.4	9.0	8.5	8.4	8.1	7.5	7.0	6.8
70°	11.0	11.1	11.2	11.2	11.2	11.1	11.0	10.9	10.6	10.3	10.0
67.5°	17.0	17.3	18.0	18.7	18.0	17.3	17.0	16.3	15.1	14.2	13.7
65°	21.2	22.1	22.4	22.4	22.4	22.1	21.2	20.1	18.5	17.2	16.4
62.5°	18.4	19.2	19.3	19.3	19.3	19.2	18.4	17.7	16.9	16.0	15.3
60°	12.8	13.2	13.4	13.7	13.4	13.2	12.8	12.4	12.0	11.7	11.4
57.5°	7.8	8.2	8.2	8.1	8.2	8.2	7.8	7.6	7.6	7.7	7.9
55°	8.5	8.6	8.5	8.1	8.5	8.6	8.5	8.4	8.2	8.3	8.7
52.5°	27.8	26.4	25.0	23.7	25.0	26.4	27.8	28.5	28.0	26.7	23.8
50°	101.0	99.3	96.9	94.2	96.9	99.3	101.0	102.1	98.8	90.9	78.3
47.5°	242.5	243.0	240.6	236.3	240.6	243.0	242.5	238.0	232.9	221.8	203.8
45°	857.3	903.9	929.1	946.6	929.1	903.9	857.3	760.7	649.9	528.1	405.8
42.5°	1722.8	1788.2	1838.0	1848.2	1838.0	1788.2	1722.8	1647.6	1561.6	1337.4	1131.4
40°	3142.2	3153.2	2970.9	2695.7	2970.9	3153.2	3142.2	2958.3	2803.2	2617.5	2294.9
37.5°	4458.8	4918.9	5453.4	5726.2	5453.4	4918.9	4458.8	4138.9	3870.5	3599.4	3265.0
35°	6399.4	7091.5	7316.0	7321.8	7316.0	7091.5	6399.4	5587.4	4985.6	4580.6	4201.4
32.5°	8889.9	9452.5	9753.0	9671.4	9753.0	9452.5	8889.9	7872.1	6743.6	6005.2	5452.1
30°	11624.5	12114.1	12118.0	11954.3	12118.0	12114.1	11624.5	10918.3	9706.6	8529.1	7400.3
27.5°	15688.6	16723.1	17451.2	17647.4	17451.2	16723.1	15688.6	14530.2	13411.2	11938.7	10319.8
25°	20196.4	21333.2	22032.2	22286.7	22032.2	21333.2	20196.4	18738.8	17121.3	15676.3	14053.3
22.5°	25277.6	26382.9	26887.3	27151.1	26887.3	26382.9	25277.6	23795.2	22202.4	20142.8	18106.1
20°	32380.1	33951.6	34544.0	34797.2	34544.0	33951.6	32380.1	30506.2	28540.4	25831.4	22799.1
17.5°	42218.3	45322.0	47262.6	48259.2	47262.6	45322.0	42218.3	39121.0	36140.2	32380.7	28131.8
15°	53126.3	56277.2	58349.3	59591.8	58349.3	56277.2	53126.3	49491.6	44580.4	39308.9	34111.6
12.5°	62484.0	65292.9	67294.3	68484.1	67294.3	65292.9	62484.0	58109.2	52412.2	45853.1	39913.7
10°	68487.4	70896.2	72972.6	73986.7	72972.6	70896.2	68487.4	64614.2	58512.2	52053.1	44639.4
7.5°	71880.2	74681.1	75806.7	76500.3	75806.7	74681.1	71880.2	68396.0	63406.0	56385.4	48840.6
5°	74509.8	76723.2	77762.2	78269.3	77762.2	76723.2	74509.8	71027.5	66526.7	60073.4	52124.1
2.5°	76265.1	78186.7	78921.5	79330.6	78921.5	78186.7	76265.1	73054.3	68981.7	62947.6	54790.8
0°	77107.6	78524.3	79348.1	78946.5	79348.1	78524.3	77107.6	74418.2	70056.6	64482.4	56773.3
-2.5°	77113.4	78460.1	79072.4	78774.4	79072.4	78460.1	77113.4	74978.7	70675.5	64881.9	56823.6
-5°	76453.7	77458.8	78204.5	77965.6	78204.5	77458.8	76453.7	74335.2	70282.7	64281.4	56494.8
-7.5°	74674.6	76010.3	76556.6	76583.2	76556.6	76010.3	74674.6	72585.2	68846.7	62362.4	54353.2
-10°	72227.1	73708.0	74289.6	74349.0	74289.6	73708.0	72227.1	69756.5	65445.3	59245.4	51152.0
-12.5°	68589.5	70326.7	71163.7	71312.9	71163.7	70326.7	68589.5	65491.9	61001.5	53933.3	47148.8
-15°	62942.5	65284.1	66605.7	67069.5	66605.7	65284.1	62942.5	59551.5	54324.6	48543.0	42340.9
-17.5°	55265.8	58063.5	59711.5	60292.7	59711.5	58063.5	55265.8	51403.0	47343.0	42804.6	37831.1
-20°	47258.3	49332.3	50602.8	51126.3	50602.8	49332.3	47258.3	44089.2	40864.7	37170.7	33560.1



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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°	39974.6	41646.9	42590.8	43010.1	42590.8	41646.9	39974.6	37528.6	34874.9	32318.8	29424.9
-25°	33657.4	35065.9	35549.9	35822.9	35549.9	35065.9	33657.4	31987.0	29923.5	27916.4	25671.6
-27.5°	28495.9	29613.2	29873.9	30114.8	29873.9	29613.2	28495.9	27306.2	25670.8	24015.0	22142.9
-30°	24146.6	25118.9	25251.9	25518.6	25251.9	25118.9	24146.6	23160.1	21820.5	20312.8	18540.5
-32.5°	20079.2	20945.0	21276.6	21327.6	21276.6	20945.0	20079.2	19073.4	17834.7	16562.0	15322.4
-35°	16184.4	16754.9	16980.7	16994.5	16980.7	16754.9	16184.4	15446.0	14510.9	13524.2	12589.7
-37.5°	13122.1	13485.8	13747.3	13675.3	13747.3	13485.8	13122.1	12621.0	11813.3	11025.2	10165.2
-40°	10525.2	10891.1	11130.1	11071.9	11130.1	10891.1	10525.2	10108.5	9364.9	8609.4	7693.1
-42.5°	7842.2	8244.7	8470.6	8408.1	8470.6	8244.7	7842.2	7419.6	6653.5	5802.3	4943.0
-45°	4863.6	5218.3	5384.8	5283.4	5384.8	5218.3	4863.6	4510.9	3892.3	3153.2	2469.3
-47.5°	2537.3	2618.0	2643.8	2607.7	2643.8	2618.0	2537.3	2462.2	2319.7	2133.0	1974.7
-50°	2057.2	2107.9	2129.6	2123.2	2129.6	2107.9	2057.2	1994.2	1913.5	1811.7	1725.9
-52.5°	1786.8	1810.2	1817.9	1813.3	1817.9	1810.2	1786.8	1753.7	1711.5	1652.7	1604.0
-55°	1663.9	1687.1	1695.1	1692.3	1695.1	1687.1	1663.9	1630.7	1591.4	1535.4	1482.8
-57.5°	1508.0	1536.5	1554.2	1563.3	1554.2	1536.5	1508.0	1470.6	1425.5	1361.3	1294.0
-60°	1269.1	1291.9	1298.5	1295.1	1298.5	1291.9	1269.1	1238.3	1200.1	1147.5	1088.5
-62.5°	1047.1	1065.9	1079.9	1089.4	1079.9	1065.9	1047.1	1022.2	990.4	948.4	899.9
-65°	849.0	862.5	865.4	863.0	865.4	862.5	849.0	829.9	803.8	771.2	733.0
-67.5°	681.0	691.1	692.5	690.3	692.5	691.1	681.0	667.1	647.1	622.5	592.8
-70°	552.2	560.6	561.8	560.6	561.8	560.6	552.2	541.1	524.5	505.2	482.7
-72.5°	458.0	464.2	468.9	472.7	468.9	464.2	458.0	449.8	435.9	420.9	404.2
-75°	392.6	397.1	398.2	398.5	398.2	397.1	392.6	386.7	375.0	362.6	348.9
-77.5°	341.3	345.8	348.9	351.7	348.9	345.8	341.3	336.1	326.1	315.9	305.3
-80°	302.9	306.3	308.9	311.2	308.9	306.3	302.9	298.9	290.1	281.3	272.8
-82.5°	274.2	277.7	279.9	281.8	279.9	277.7	274.2	270.5	263.2	255.8	248.3
-85°	247.1	249.8	251.8	253.8	251.8	249.8	247.1	244.3	237.6	230.9	224.4
-87.5°	223.0	225.6	226.9	228.2	226.9	225.6	223.0	220.4	214.7	208.9	203.5
-90°	0.9	0.6	0.6	0.6	0.6	0.6	0.9	1.2	1.2	1.2	1.6





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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	184.0	180.3	176.5	173.7	170.9	167.5	164.0	158.7	153.4	147.8	142.2
87.5°	2.5	2.5	2.4	2.5	2.5	2.8	3.0	3.0	3.1	3.4	3.7
85°	3.0	3.0	3.0	3.2	3.4	3.4	3.5	3.5	3.4	3.7	4.0
82.5°	3.1	3.1	3.1	3.4	3.7	3.7	3.7	3.8	3.9	4.2	4.4
80°	3.1	3.3	3.5	3.6	3.7	3.8	3.9	4.2	4.4	4.4	4.5
77.5°	3.2	3.5	3.7	3.9	4.0	4.3	4.5	4.4	4.5	4.7	4.8
75°	3.9	4.0	4.1	4.5	4.7	4.9	5.0	5.2	5.1	5.1	5.3
72.5°	6.6	6.3	6.1	6.1	5.9	5.9	6.0	6.1	6.1	5.9	5.7
70°	9.9	9.9	10.0	10.1	9.9	9.6	9.0	8.3	7.7	7.6	7.1
67.5°	13.4	13.4	13.9	14.9	14.6	14.1	13.1	12.1	11.3	10.5	9.0
65°	16.2	16.3	16.2	16.1	16.4	16.8	17.1	16.2	16.3	14.9	11.9
62.5°	15.8	16.5	15.5	15.0	15.8	17.4	20.1	21.5	22.7	21.3	17.9
60°	12.4	13.5	13.0	13.2	14.4	18.0	23.0	26.9	30.1	28.0	24.0
57.5°	8.3	8.6	9.5	11.3	13.3	19.2	25.7	31.7	36.0	33.4	30.0
55°	9.2	10.0	10.3	11.6	13.1	20.9	28.2	34.4	38.9	37.7	34.2
52.5°	20.0	22.7	22.5	20.0	21.5	26.9	31.2	38.3	42.2	42.1	39.2
50°	69.8	72.5	64.9	54.2	55.0	45.8	51.1	52.4	51.0	51.4	47.0
47.5°	190.9	177.5	160.1	146.8	130.7	112.6	112.4	91.7	89.0	71.8	68.7
45°	375.3	336.5	304.3	277.9	250.3	231.3	213.2	202.2	160.2	144.3	103.7
42.5°	966.4	670.8	505.5	434.1	374.0	346.3	326.3	312.9	293.9	244.2	204.7
40°	1930.4	1499.3	1106.9	694.8	525.6	449.4	420.5	388.9	385.7	360.0	308.0
37.5°	2879.9	2435.9	1944.1	1431.7	952.7	605.8	536.8	489.5	454.7	445.1	407.7
35°	3760.0	3300.1	2844.5	2299.8	1677.0	1164.5	706.4	622.6	555.5	516.1	493.6
32.5°	4745.8	4262.6	3687.7	3155.3	2597.1	1937.9	1339.1	829.6	681.3	613.0	560.2
30°	6320.1	5513.2	4739.6	4057.0	3498.6	2900.9	2149.3	1387.0	878.4	713.5	630.8
27.5°	8797.3	7254.4	6225.0	5323.7	4578.9	3948.7	3189.6	2175.3	1210.5	870.7	723.0
25°	12187.7	10454.3	8695.1	7405.3	6324.6	5247.4	4443.6	3216.4	1980.1	1057.7	826.0
22.5°	16218.1	14074.9	12090.8	9990.4	8359.0	6936.5	5618.7	4269.1	2783.3	1486.6	1001.0
20°	19789.8	17295.8	15048.2	12720.0	10368.2	8327.6	6610.9	5198.1	3647.9	2165.0	1171.0
17.5°	24221.8	20750.6	17965.3	15458.9	12663.4	10123.4	7949.2	6190.7	4455.5	2731.3	1310.4
15°	29118.1	24654.7	20922.5	17751.5	14822.4	11950.4	9411.5	7252.0	5357.2	3330.1	1721.6
12.5°	34378.1	28958.3	23954.4	19999.1	16516.3	13380.1	10405.6	8174.6	6194.4	4050.1	2174.5
10°	37915.8	32314.2	26935.0	22390.2	18339.1	14555.4	11255.4	8744.1	6738.5	4680.5	2617.9
7.5°	41609.5	34979.9	29137.4	24144.2	19926.1	15973.7	12096.0	9184.1	7157.0	5151.1	2962.4
5°	43820.4	36827.8	30750.5	25521.5	21065.7	17113.6	13090.7	9576.0	7502.8	5504.2	3225.7
2.5°	45563.0	37973.6	31628.4	26254.3	21844.3	17797.4	13913.2	9961.4	7688.9	5670.2	3299.0
0°	47079.4	38799.2	32324.7	26815.6	22334.1	18235.4	14331.9	10336.8	7745.2	5711.2	3286.2
-2.5°	47015.2	38526.6	31923.8	26539.4	22119.3	18096.2	14383.0	10819.4	8140.0	5745.9	3291.0
-5°	47063.3	38540.2	31662.5	26351.0	21928.2	17912.8	14234.3	10960.5	8347.8	5699.0	3216.2
-7.5°	45804.2	37854.9	31184.5	25956.4	21598.8	17575.9	13875.8	10783.1	8357.3	5701.6	3094.5
-10°	43325.3	36216.0	30049.0	25118.5	20947.0	16986.2	13350.7	10490.7	8131.1	5475.2	2885.6
-12.5°	40595.1	34257.9	28512.2	23857.3	19913.5	16127.2	12686.4	10072.9	7719.3	5050.6	2681.1
-15°	37001.5	31967.6	27179.2	22577.1	18612.1	15067.9	11923.9	9547.4	7196.7	4499.5	2363.5
-17.5°	33471.8	29157.7	24997.0	21078.2	17215.1	13908.1	11200.3	8855.5	6453.3	3869.9	1946.9
-20°	30028.3	26322.8	22717.6	19076.1	15643.6	12596.7	10291.0	8015.4	5523.8	3253.0	1879.3



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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°	26664.8	23696.9	20488.4	16992.3	14003.6	11461.5	9219.2	6975.4	4461.9	2527.4	1789.3
-25°	23324.4	20861.2	17952.4	15268.2	12543.7	10207.5	8051.6	5688.2	3553.4	2101.4	1669.2
-27.5°	19977.3	17680.7	15592.2	13377.1	11196.5	8893.8	6617.8	4347.0	2544.1	1908.1	1602.6
-30°	16723.4	14965.1	13223.2	11467.2	9596.5	7418.3	5002.5	3189.5	2107.3	1725.1	1516.5
-32.5°	13896.7	12529.3	11089.7	9552.8	7719.7	5706.2	3691.0	2300.9	1856.9	1622.7	1463.7
-35°	11453.0	10213.2	9002.1	7401.4	5537.9	3866.4	2442.0	1988.0	1704.1	1523.8	1416.5
-37.5°	9177.0	7940.5	6547.8	5065.3	3552.4	2434.2	2055.1	1776.9	1574.6	1461.5	1353.3
-40°	6642.8	5368.9	4143.7	2896.9	2347.3	2029.1	1812.9	1631.2	1509.9	1392.0	1285.1
-42.5°	4036.3	2990.6	2390.6	2177.2	1960.7	1802.2	1653.9	1550.4	1438.9	1326.2	1182.9
-45°	2298.6	2117.0	1954.4	1863.1	1745.4	1654.8	1571.5	1467.9	1364.8	1218.9	1066.8
-47.5°	1876.0	1800.5	1729.0	1684.7	1629.2	1561.5	1472.7	1374.1	1233.1	1089.3	961.8
-50°	1664.0	1636.8	1609.2	1577.3	1521.7	1454.2	1346.3	1221.0	1093.1	975.4	857.4
-52.5°	1561.5	1527.3	1492.9	1457.7	1385.4	1289.6	1183.0	1073.0	962.1	859.2	755.9
-55°	1437.8	1384.6	1329.2	1268.4	1201.0	1118.1	1029.0	930.7	836.6	742.7	663.8
-57.5°	1234.9	1180.5	1133.9	1081.2	1022.9	954.9	882.9	798.1	718.5	645.8	577.3
-60°	1038.9	988.6	950.4	907.6	860.2	803.7	746.5	680.9	610.5	552.3	496.4
-62.5°	858.4	816.1	784.1	751.9	716.1	674.3	624.3	574.2	518.1	465.1	425.9
-65°	699.8	667.0	639.8	616.4	589.8	560.4	518.7	480.5	439.9	399.7	365.3
-67.5°	566.2	541.5	519.8	500.5	484.1	465.6	437.3	406.3	376.6	349.0	325.6
-70°	462.7	446.0	431.0	416.8	404.5	393.3	375.7	354.7	331.0	308.0	288.4
-72.5°	389.2	378.0	367.7	359.2	349.7	340.5	327.0	309.5	290.6	271.0	254.6
-75°	336.4	327.4	318.7	311.3	303.0	294.4	284.8	272.1	259.0	245.4	232.7
-77.5°	295.1	287.7	280.5	275.1	269.6	263.8	256.4	245.5	235.4	224.8	214.8
-80°	264.5	258.1	252.0	248.3	244.3	239.4	233.7	225.2	216.8	207.7	198.8
-82.5°	240.9	235.2	229.6	226.1	222.3	217.6	212.6	205.5	198.2	190.3	182.5
-85°	218.0	213.6	209.1	205.5	201.8	197.4	192.8	186.6	180.4	173.3	166.1
-87.5°	198.0	194.0	190.0	187.2	184.3	180.0	175.7	170.3	164.8	158.5	152.3
-90°	1.9	1.9	1.9	2.2	2.5	2.5	2.5	2.8	3.1	3.4	3.7





REPORT NUMBER: P731445 (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°	136.9	131.6	126.6	121.6	117.6	113.5	109.2	104.8	97.6	90.4	80.5
87.5°	3.9	4.2	4.4	4.7	4.7	4.7	5.0	5.3	5.3	5.4	5.7
85°	4.3	4.6	4.8	5.0	5.0	5.0	5.3	5.5	5.7	5.8	6.1
82.5°	4.7	5.0	5.0	5.0	5.4	5.6	5.7	5.8	6.1	6.3	6.4
80°	4.8	5.0	5.1	5.3	5.7	6.2	6.1	6.1	6.5	6.7	6.8
77.5°	5.0	5.2	5.4	5.6	5.9	6.2	6.3	6.4	6.9	7.2	7.2
75°	5.4	5.5	5.5	5.8	6.1	6.3	6.5	6.7	7.2	7.6	7.6
72.5°	5.9	5.9	5.7	5.9	6.4	6.7	6.9	7.1	7.5	7.9	8.0
70°	6.6	6.3	6.1	6.3	6.8	7.2	7.4	7.7	7.8	8.2	8.5
67.5°	7.5	7.1	6.7	6.9	7.2	7.8	8.1	8.3	8.5	8.7	9.0
65°	10.3	9.0	7.5	7.9	8.0	8.5	9.0	9.3	9.3	9.5	9.5
62.5°	14.4	12.2	10.9	9.6	9.4	10.2	10.1	10.8	10.3	10.4	10.3
60°	19.7	16.3	14.6	13.3	12.4	12.4	12.8	12.6	12.4	11.4	11.3
57.5°	24.7	20.0	19.5	17.7	17.1	16.2	16.3	16.0	15.0	14.0	12.3
55°	29.2	25.2	25.3	23.9	23.3	21.6	21.4	20.6	18.6	17.4	13.6
52.5°	33.9	32.4	32.0	32.4	31.9	28.7	28.3	25.7	24.2	21.2	17.2
50°	41.1	42.5	41.0	43.4	42.0	40.0	36.0	33.2	30.2	25.7	21.0
47.5°	59.7	60.7	56.1	57.9	55.7	52.7	47.4	41.6	36.5	31.5	24.9
45°	103.7	89.2	83.6	78.2	73.4	69.4	60.9	50.4	44.6	37.5	28.9
42.5°	164.1	144.3	128.6	101.7	99.8	88.8	76.0	63.9	53.0	43.6	33.7
40°	258.7	221.9	187.9	158.1	132.7	110.3	96.0	78.8	61.8	50.4	39.2
37.5°	359.5	312.9	268.1	222.3	176.3	145.0	118.2	94.5	72.3	58.3	44.8
35°	449.2	407.7	345.9	292.6	239.8	181.3	142.1	112.7	86.5	66.5	50.5
32.5°	526.2	486.5	419.3	360.0	291.3	218.6	172.1	133.4	101.0	74.8	56.5
30°	588.1	542.9	486.5	413.5	334.2	260.7	203.4	153.7	115.7	83.3	62.8
27.5°	648.5	597.3	545.8	462.6	374.1	296.9	229.5	173.6	130.6	92.9	69.7
25°	720.8	654.1	597.4	515.9	413.2	326.0	253.0	193.1	146.6	103.9	76.3
22.5°	811.0	709.9	649.8	572.0	457.9	354.8	275.8	213.7	160.4	114.3	82.6
20°	889.9	759.4	699.9	624.1	506.4	391.6	299.4	231.0	173.4	124.1	88.6
17.5°	973.0	811.3	732.1	661.2	553.7	428.6	324.1	247.2	185.7	133.3	94.3
15°	1084.6	867.3	761.6	693.2	594.1	464.2	348.3	262.7	197.0	141.7	99.9
12.5°	1176.3	919.4	790.6	718.2	625.4	496.5	371.4	277.2	207.5	150.2	105.3
10°	1264.6	975.1	822.2	741.9	651.7	525.4	393.3	292.5	219.9	158.6	110.5
7.5°	1361.8	1027.6	852.7	764.6	674.0	549.5	415.7	310.7	231.9	166.4	115.2
5°	1440.5	1074.2	884.1	789.9	695.4	568.0	435.9	327.9	243.1	173.5	119.6
2.5°	1463.1	1113.2	914.7	813.7	713.6	582.6	453.7	343.8	253.1	179.8	123.6
0°	1469.1	1144.9	942.2	834.9	728.3	593.6	468.9	357.9	261.9	185.2	127.2
-2.5°	1500.2	1170.4	966.9	865.3	754.7	607.8	477.5	365.2	269.3	191.5	132.4
-5°	1517.5	1188.4	988.7	892.3	776.3	618.5	483.6	370.6	275.4	196.9	137.1
-7.5°	1527.2	1201.4	1008.5	914.8	792.2	625.2	487.0	374.2	279.9	201.3	141.2
-10°	1522.5	1207.7	1025.5	927.4	799.7	631.6	488.8	375.9	283.0	204.6	144.9
-12.5°	1529.5	1209.1	1039.1	936.7	802.3	637.4	494.7	378.5	284.6	206.9	147.9
-15°	1529.7	1223.9	1061.0	944.4	800.8	639.0	497.0	379.9	285.0	208.1	150.4
-17.5°	1495.0	1225.1	1081.3	955.5	796.3	636.0	495.4	378.3	283.8	208.4	152.5
-20°	1484.8	1235.2	1092.9	961.0	786.3	629.5	490.0	373.6	280.9	207.7	154.3



REPORT NUMBER: P731445 (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°	1470.9	1257.5	1106.1	948.9	772.1	619.3	482.2	366.1	276.2	205.8	155.5
-25°	1427.7	1271.7	1112.2	935.0	756.8	608.0	472.8	359.6	269.8	202.9	156.2
-27.5°	1402.4	1264.9	1108.6	911.8	740.5	591.9	463.1	354.7	265.5	198.9	156.3
-30°	1386.9	1244.0	1075.7	881.7	716.5	572.7	450.7	347.3	262.1	197.2	155.8
-32.5°	1351.1	1219.0	1026.2	847.5	689.8	550.1	435.5	336.9	256.8	197.1	155.4
-35°	1297.3	1156.2	967.5	804.3	660.2	530.2	418.4	323.7	249.8	195.9	154.9
-37.5°	1234.6	1068.1	914.0	758.7	622.0	505.5	401.0	311.6	240.9	193.8	153.9
-40°	1136.4	981.9	842.2	710.4	584.0	475.0	380.6	300.0	235.5	190.8	152.3
-42.5°	1034.0	896.9	771.2	653.0	543.4	445.9	358.3	286.4	231.1	187.8	150.1
-45°	936.3	811.3	699.5	597.7	500.1	414.5	340.3	272.2	225.4	184.5	147.9
-47.5°	838.2	731.4	631.7	539.6	462.2	383.3	318.5	264.2	218.5	180.3	146.2
-50°	748.6	653.4	565.7	487.6	417.8	357.1	297.7	254.8	212.3	175.1	143.9
-52.5°	663.5	579.1	503.9	435.6	380.6	328.9	283.5	243.4	204.9	170.6	141.2
-55°	583.1	509.8	444.6	390.9	344.3	307.1	267.8	231.9	196.4	166.3	138.1
-57.5°	510.1	443.5	395.6	350.8	315.0	285.2	252.6	219.4	189.7	161.3	136.5
-60°	440.2	393.9	351.5	318.8	289.9	263.8	237.1	207.5	183.1	156.3	134.3
-62.5°	385.0	347.2	318.5	290.7	265.8	243.4	221.7	198.0	175.5	153.1	131.7
-65°	339.7	313.3	287.1	264.7	242.7	224.2	209.3	187.9	169.6	149.4	128.6
-67.5°	302.6	280.8	259.2	238.9	223.5	209.9	195.9	180.1	164.0	145.4	124.9
-70°	269.3	249.9	234.2	220.9	208.2	196.1	186.2	173.1	158.0	140.5	120.9
-72.5°	241.8	229.0	216.0	204.1	195.1	186.1	177.0	165.6	151.2	135.2	116.6
-75°	221.1	211.1	201.4	192.4	184.2	176.0	167.6	157.6	144.1	129.6	111.5
-77.5°	206.0	197.2	188.7	180.4	172.9	165.4	157.9	149.4	136.5	122.8	105.9
-80°	190.9	183.1	175.5	168.0	161.3	154.6	147.6	139.8	127.9	115.7	100.1
-82.5°	175.6	168.7	161.8	154.9	148.7	142.4	136.3	129.7	119.0	108.3	94.7
-85°	159.9	153.7	147.5	141.2	135.7	130.2	125.4	120.3	111.4	102.5	90.1
-87.5°	146.9	141.6	136.2	130.9	126.4	121.9	117.3	112.6	104.6	96.5	85.3
-90°	3.7	3.7	4.1	4.4	4.4	4.4	4.7	5.0	5.0	5.0	5.3



REPORT NUMBER: P731445 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	70.5	58.3	46.1	33.0	20.0	13.4	6.9
87.5°	5.9	5.9	5.8	5.8	5.8	6.4	6.9
85°	6.3	6.2	6.1	6.0	5.9	6.5	6.9
82.5°	6.6	6.4	6.3	6.2	6.1	6.7	6.9
80°	6.9	6.7	6.5	6.4	6.3	6.8	6.9
77.5°	7.3	7.0	6.7	6.6	6.5	6.9	6.9
75°	7.6	7.5	7.0	6.9	6.7	7.1	6.9
72.5°	8.0	7.9	7.5	7.1	6.9	7.2	6.9
70°	8.4	8.3	7.9	7.3	7.1	7.4	6.9
67.5°	8.9	8.8	8.3	7.7	7.3	7.5	6.9
65°	9.5	9.3	8.8	8.0	7.5	7.7	6.9
62.5°	10.1	9.8	9.2	8.4	7.7	7.8	6.9
60°	10.6	10.3	9.7	8.8	8.0	8.0	6.9
57.5°	11.8	10.8	10.3	9.1	8.4	8.1	6.9
55°	13.2	11.3	11.0	9.5	8.8	8.3	6.9
52.5°	14.7	12.0	11.7	9.8	9.3	8.4	6.9
50°	16.3	13.8	12.5	10.2	9.7	8.6	6.9
47.5°	18.3	15.6	13.3	10.6	10.2	8.7	6.9
45°	21.7	17.5	14.2	11.3	10.8	8.9	6.9
42.5°	25.2	19.5	15.2	12.0	11.3	9.0	6.9
40°	28.8	21.6	16.5	13.1	11.9	9.2	6.9
37.5°	32.8	23.8	18.1	14.3	12.5	9.3	6.9
35°	36.8	26.6	19.8	15.6	13.1	9.5	6.9
32.5°	41.2	29.8	21.5	16.9	13.7	9.6	6.9
30°	46.2	33.0	23.1	18.2	14.4	9.8	6.9
27.5°	51.1	36.1	25.4	19.6	15.0	9.9	6.9
25°	55.9	39.2	27.7	20.9	15.7	10.1	6.9
22.5°	60.5	42.3	30.0	22.3	16.3	10.2	6.9
20°	65.0	45.7	32.2	23.7	17.0	10.3	6.9
17.5°	69.5	49.0	34.4	25.0	17.7	10.5	6.9
15°	73.9	52.1	36.5	26.4	18.3	10.6	6.9
12.5°	77.9	55.0	38.5	27.7	18.9	10.7	6.9
10°	81.8	57.8	40.4	29.0	19.6	10.8	6.9
7.5°	85.3	60.5	42.3	30.2	20.2	10.9	6.9
5°	88.6	62.9	44.1	31.4	20.7	11.0	6.9
2.5°	91.5	65.2	45.8	32.6	21.3	11.1	6.9
0°	94.2	67.3	47.4	33.7	21.8	11.2	6.9
-2.5°	98.2	70.4	49.6	35.2	22.7	11.6	6.9
-5°	101.9	73.3	51.7	36.6	23.6	12.1	6.9
-7.5°	105.2	75.9	53.7	37.9	24.5	12.5	6.9
-10°	108.1	78.3	55.5	39.2	25.3	12.9	6.9
-12.5°	110.7	80.5	57.2	40.3	26.0	13.2	6.9
-15°	112.9	82.4	58.7	41.4	26.7	13.6	6.9
-17.5°	114.6	84.0	60.1	42.4	27.3	14.0	6.9
-20°	116.2	85.3	61.3	43.3	27.9	14.3	6.9



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 CATALOG NUMBER: EPH-LS-08-0320N-57-80-5S-VHE

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	117.8	86.3	62.3	44.1	28.4	14.6	6.9
-25°	118.9	87.5	63.2	44.8	28.9	14.9	6.9
-27.5°	119.6	88.7	63.9	45.4	29.3	15.2	6.9
-30°	119.8	89.5	64.5	45.9	29.6	15.4	6.9
-32.5°	119.6	90.1	65.5	46.2	29.9	15.6	6.9
-35°	119.7	90.4	66.4	46.5	30.1	15.8	6.9
-37.5°	119.6	90.7	67.2	46.7	30.2	16.0	6.9
-40°	119.3	91.4	67.7	46.7	30.3	16.1	6.9
-42.5°	118.6	91.8	68.2	46.9	30.3	16.2	6.9
-45°	117.6	92.0	68.5	47.1	30.3	16.3	6.9
-47.5°	116.2	92.0	68.7	47.2	30.1	16.4	6.9
-50°	115.6	91.8	68.6	47.3	29.9	16.4	6.9
-52.5°	115.0	91.3	68.3	47.2	29.7	16.4	6.9
-55°	114.0	90.5	67.7	47.0	29.4	16.4	6.9
-57.5°	112.8	89.4	67.0	46.7	29.0	16.3	6.9
-60°	111.2	88.0	66.0	46.2	28.5	16.2	6.9
-62.5°	109.1	86.4	65.1	45.6	28.1	16.1	6.9
-65°	106.7	84.6	64.0	44.8	27.7	16.0	6.9
-67.5°	104.0	82.5	62.7	44.0	27.2	15.8	6.9
-70°	101.1	80.3	61.2	43.0	26.6	15.6	6.9
-72.5°	97.5	77.8	59.6	42.1	25.9	15.4	6.9
-75°	93.6	75.1	57.8	41.1	25.2	15.2	6.9
-77.5°	89.4	72.1	56.1	40.0	24.5	15.0	6.9
-80°	84.9	69.4	54.3	38.8	23.7	14.7	6.9
-82.5°	81.4	66.8	52.5	37.5	22.8	14.4	6.9
-85°	77.9	64.1	50.4	36.1	21.9	14.1	6.9
-87.5°	74.3	61.3	48.3	34.6	21.0	13.8	6.9
-90°	5.6	5.6	5.6	5.6	5.6	6.3	6.9

(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

