

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: P731333 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-80-1S-VHE**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731333 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-133-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-40-80-1S-VHE  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 1S BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

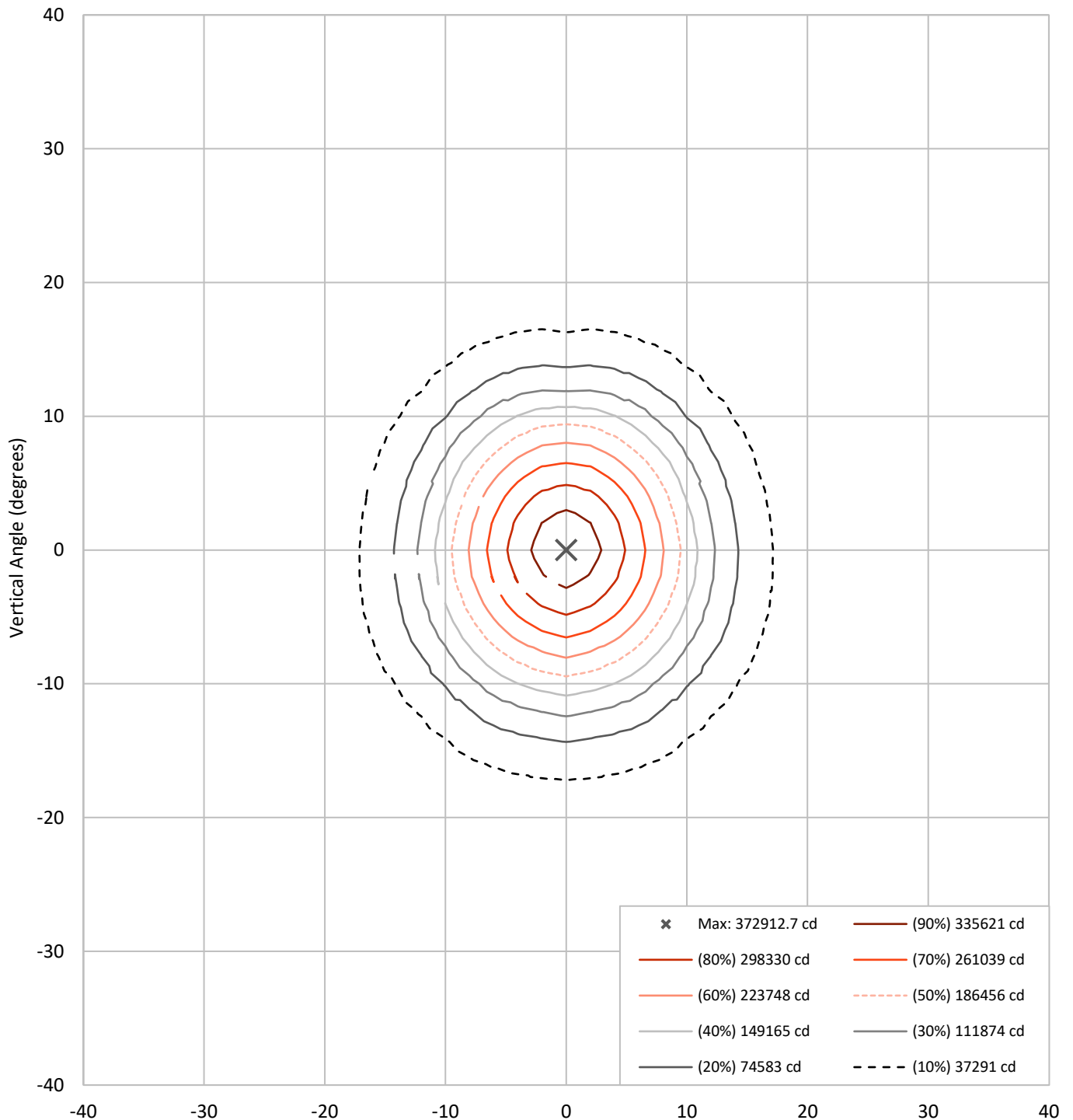
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	49153.5 lumens	Max Intensity:	372912.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	143.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	19°H x 18.9°V	Field Angle (10%):	34°H x 33.3°V
Beam Lumens:	21788.9 lumens	Field Lumens:	39685.1 lumens
Beam Efficiency:	44.3%	Field Efficiency:	80.7%

Input Watts (W): 343.2  
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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CATALOG NUMBER: EPH-LS-08-0320N-40-80-1S-VHE

### Iso-Candela Plot





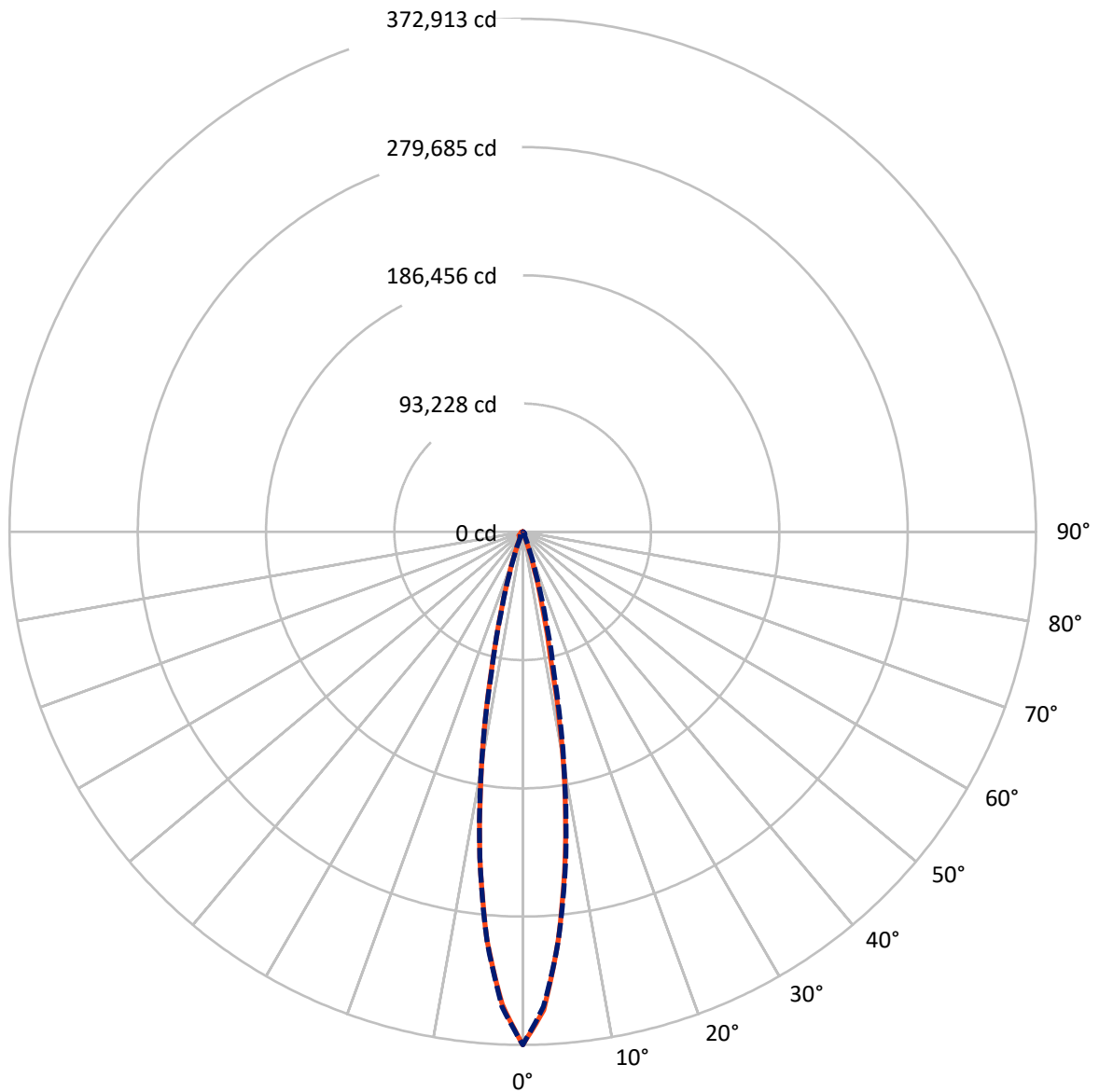
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### Lumen Table

90	0.2		0.7		1.2		1.7		1.9		1.7		1.2		0.7		0.2	
80	0.2		0.7		1.2		1.7		1.9		1.7		1.2		0.7		0.2	
70	0.2	0.1	0.2	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.2	0.1	0.2		
60		0.3	0.6	0.7	0.6	0.5	0.7	0.7	0.7	0.7	0.5	0.6	0.7	0.6	0.3			
50	0.7	0.8	1.8	3.6	5.5	9.6	14.6	16.1	16.1	14.6	9.6	5.5	3.6	1.8	0.8	0.7		
40		1.9	5.3	9.6	20.1	32.9	36.8	38.6	38.6	36.8	32.9	20.1	9.6	5.3	1.9			
30	1.6	3.2	8.7	17.8	42.3	44.9	54.4	90.1	90.1	54.4	44.9	42.3	17.8	8.7	3.2	1.6		
20		4.3	11.1	31.7	56.0	66.1	411.9	1641.4	1641.4	411.9	66.1	56.0	31.7	11.1	4.3			
10	2.4	5.3	13.1	41.9	62.5	123.4	1664.2	6924.1	6924.1	1664.2	123.4	62.5	41.9	13.1	5.3	2.4		
0		5.9	14.6	44.7	69.5	138.0	1749.6	6890.7	6890.7	1749.6	138.0	69.5	44.7	14.6	5.9			
-10	2.8	6.1	15.7	44.2	77.0	94.9	485.8	1778.5	1778.5	485.8	94.9	77.0	44.2	15.7	6.1	2.8		
-20		5.9	15.9	34.2	78.4	96.1	104.8	162.8	162.8	104.8	96.1	78.4	34.2	15.9	5.9			
-30	2.6	5.3	14.8	27.3	57.5	96.5	108.5	109.7	109.7	108.5	96.5	57.5	27.3	14.8	5.3	2.6		
-40		4.4	12.1	23.8	35.6	53.8	79.7	99.4	99.4	79.7	53.8	35.6	23.8	12.1	4.4			
-50	2.2	3.4	8.8	17.4	27.7	36.1	42.1	45.9	45.9	42.1	36.1	27.7	17.4	8.8	3.4	2.2		
-60		2.7	5.8	10.6	16.7	22.5	27.4	30.7	30.7	27.4	22.5	16.7	10.6	5.8	2.7			
-70	1.5	10.4	24.8	38.9	46.4	38.9	24.8	10.4	1.5									
-80		10.4	24.8	38.9	46.4	38.9	24.8	10.4										
-90	1.5		10.4		24.8		38.9		46.4		38.9		24.8		10.4		1.5	

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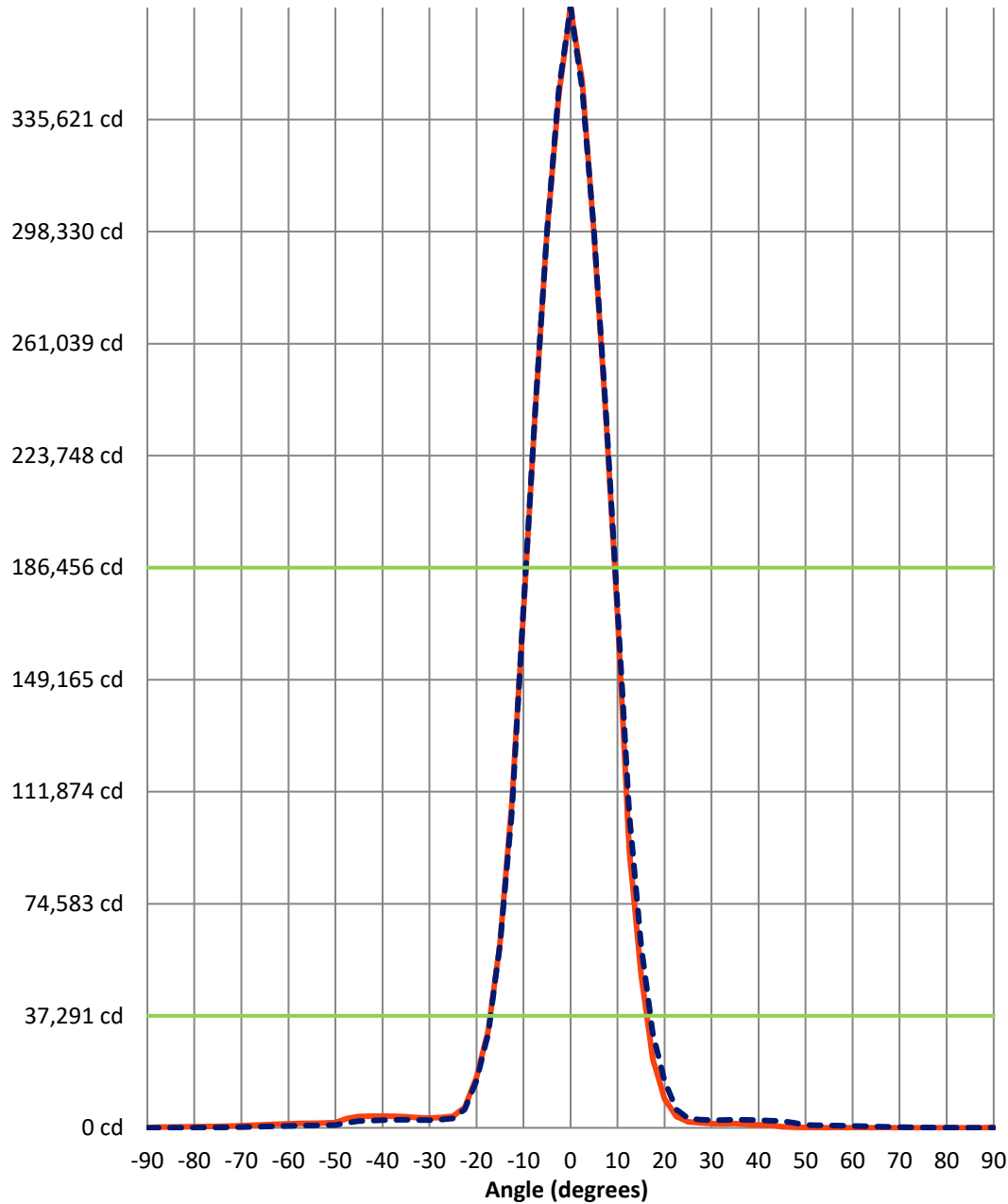
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
H Angle: 19°  
V Angle: 18.9°  
Lumens: 21788.9  
Efficiency: 44.3%

**Field:**  
H Angle: 34°  
V Angle: 33.3°  
Lumens: 39685.1  
Efficiency: 80.7%

**Spill:**  
Lumens: 9468.4  
Efficiency: 19.3%

— 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°	5.3	14.2	23.1	34.7	46.2	57.8	69.4	77.7	85.9	94.2	102.4
87.5°	5.3	4.6	3.8	3.8	3.7	3.7	3.6	3.6	3.6	3.6	3.6
85°	5.3	4.8	3.9	3.9	3.9	3.8	3.6	3.6	3.6	3.6	3.6
82.5°	5.3	4.9	4.1	4.1	4.0	3.9	3.6	3.6	3.6	3.7	3.6
80°	5.3	5.1	4.2	4.3	4.2	4.0	3.7	3.9	3.9	3.9	3.6
77.5°	5.3	5.2	4.4	4.4	4.4	4.3	4.2	4.3	4.2	4.1	3.8
75°	5.3	5.4	4.6	4.6	4.6	4.9	4.7	4.7	4.6	4.6	4.3
72.5°	5.3	5.6	4.8	4.8	5.3	5.5	5.2	5.2	5.5	5.4	4.9
70°	5.3	5.8	5.0	5.1	5.9	6.2	5.9	6.2	6.4	6.2	5.8
67.5°	5.3	5.9	5.2	5.7	6.6	6.9	7.1	7.2	7.4	7.6	7.0
65°	5.3	6.1	5.5	6.2	7.3	7.8	8.3	8.2	9.0	9.1	8.6
62.5°	5.3	6.3	5.7	6.8	8.0	9.2	9.6	9.8	10.7	10.9	10.9
60°	5.3	6.5	6.0	7.5	8.7	10.5	11.0	11.6	12.6	13.5	13.4
57.5°	5.3	6.6	6.6	8.1	9.9	11.9	13.2	13.6	15.1	16.3	17.8
55°	5.3	6.8	7.2	8.7	11.2	13.4	15.6	16.0	17.9	19.8	23.3
52.5°	5.3	7.0	7.9	9.3	12.5	15.0	18.1	19.4	20.8	25.8	29.4
50°	5.3	7.2	8.6	9.9	13.8	17.4	20.8	23.1	24.8	32.1	39.0
47.5°	5.3	7.4	9.2	10.6	15.2	19.8	23.7	27.1	31.0	38.9	49.8
45°	5.3	7.6	10.0	11.7	16.5	22.3	27.4	31.4	38.7	49.4	61.2
42.5°	5.3	7.8	10.7	12.7	17.9	24.9	31.3	37.4	46.8	60.4	78.2
40°	5.3	8.0	11.4	14.1	19.6	27.5	35.4	44.7	56.2	72.0	97.4
37.5°	5.3	8.2	12.2	15.6	21.7	30.1	39.6	52.1	68.0	87.1	117.8
35°	5.3	8.4	12.9	17.2	23.7	33.3	43.9	59.7	80.0	106.0	140.8
32.5°	5.3	8.6	13.7	18.9	25.8	36.8	48.9	67.4	92.2	124.5	164.7
30°	5.3	8.7	14.5	20.5	27.8	40.2	55.2	75.8	104.6	142.6	187.6
27.5°	5.3	8.9	15.3	22.2	30.7	43.7	61.4	86.0	118.1	160.3	209.5
25°	5.3	9.1	16.1	23.9	33.6	47.2	67.6	96.1	133.0	178.5	230.4
22.5°	5.3	9.3	16.9	25.6	36.5	50.8	73.7	106.0	147.3	196.2	253.4
20°	5.3	9.5	17.6	27.2	39.4	55.1	79.6	115.8	161.0	213.0	275.1
17.5°	5.3	9.7	18.4	28.9	42.3	59.1	85.6	125.3	174.0	228.6	295.6
15°	5.3	9.8	19.2	30.5	45.0	63.1	91.3	134.1	186.4	243.2	314.6
12.5°	5.3	10.0	19.9	32.1	47.7	66.8	96.8	141.7	197.6	256.7	332.1
10°	5.3	10.2	20.6	33.6	50.3	70.4	101.9	148.7	207.8	271.5	350.2
7.5°	5.3	10.3	21.3	35.1	52.8	73.8	106.6	155.1	217.2	285.8	371.2
5°	5.3	10.4	21.9	36.6	55.2	77.0	110.9	160.7	225.9	299.4	391.0
2.5°	5.3	10.6	22.5	37.9	57.5	80.0	114.9	165.7	233.6	311.9	409.1
0°	5.3	10.7	23.1	39.2	59.6	82.8	118.4	170.0	240.3	323.1	425.5
-2.5°	5.3	11.2	24.4	41.3	62.3	86.2	122.6	175.8	248.2	331.8	434.6
-5°	5.3	11.7	25.6	43.2	64.8	89.4	126.4	180.9	254.8	338.9	441.7
-7.5°	5.3	12.2	26.7	45.1	67.1	92.4	129.7	185.1	260.2	344.5	446.6
-10°	5.3	12.7	27.8	46.8	69.3	95.1	132.6	188.5	264.2	348.6	449.5
-12.5°	5.3	13.2	28.8	48.4	71.3	97.5	135.0	190.9	266.9	351.4	452.6
-15°	5.3	13.6	29.8	49.9	73.2	99.7	136.9	192.4	268.4	353.9	454.3
-17.5°	5.3	14.0	30.7	51.3	74.8	101.6	138.4	193.6	268.9	354.6	453.6
-20°	5.3	14.4	31.5	52.5	76.3	103.2	139.6	194.1	268.0	353.6	450.3



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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-1S-VHE

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	5.3	14.8	32.2	53.6	77.6	104.6	140.8	193.6	265.6	350.6	444.5
-25°	5.3	15.1	32.8	54.6	78.7	105.9	141.4	192.0	261.7	345.9	436.2
-27.5°	5.3	15.5	33.3	55.4	79.7	106.9	141.4	189.3	256.4	339.6	429.1
-30°	5.3	15.8	33.8	56.0	80.5	107.7	140.8	185.4	251.4	332.2	420.0
-32.5°	5.3	16.0	34.1	56.5	81.1	108.1	139.5	183.3	246.1	323.1	408.7
-35°	5.3	16.3	34.4	56.8	81.5	108.1	139.1	181.3	239.4	312.3	395.3
-37.5°	5.3	16.5	34.5	57.0	81.7	108.0	138.8	178.5	231.3	299.8	381.4
-40°	5.3	16.7	34.6	57.0	81.6	108.0	138.1	175.0	221.9	288.2	365.6
-42.5°	5.3	16.8	34.5	56.9	81.4	107.7	136.9	170.7	215.0	275.7	347.2
-45°	5.3	17.0	34.4	56.6	81.0	107.0	135.3	166.9	209.2	261.4	327.1
-47.5°	5.3	17.1	34.2	56.1	80.3	106.1	133.3	164.5	202.3	245.7	309.1
-50°	5.3	17.1	33.8	55.5	79.4	104.8	131.6	161.6	194.1	236.1	289.3
-52.5°	5.3	17.1	33.4	54.8	78.3	103.3	129.6	158.1	188.1	225.3	268.7
-55°	5.3	17.1	32.8	54.0	77.0	101.5	127.3	154.2	182.9	213.4	254.9
-57.5°	5.3	17.1	32.2	52.9	75.4	99.4	124.6	150.9	177.2	205.4	239.8
-60°	5.3	17.1	31.5	51.8	73.7	97.1	121.6	146.9	171.3	198.2	226.1
-62.5°	5.3	17.0	31.2	50.5	71.8	94.4	118.2	142.4	165.9	190.5	217.3
-65°	5.3	16.8	30.7	49.0	69.7	91.5	114.5	137.5	160.0	183.3	207.8
-67.5°	5.3	16.7	30.3	47.4	67.4	88.4	110.5	132.2	153.8	176.0	198.8
-70°	5.3	16.5	29.7	45.7	64.9	85.0	106.1	126.5	146.9	168.1	189.7
-72.5°	5.3	16.3	29.1	44.6	62.2	81.4	101.5	120.5	139.6	159.4	180.0
-75°	5.3	16.1	28.4	43.4	59.4	77.6	96.5	114.1	131.9	150.2	169.3
-77.5°	5.3	15.8	27.6	42.2	57.3	73.6	91.3	107.4	123.7	140.6	158.1
-80°	5.3	15.5	26.8	40.8	55.4	70.3	85.9	100.4	115.2	130.4	146.2
-82.5°	5.3	15.2	26.0	39.4	53.2	67.4	81.9	93.9	106.4	119.9	133.9
-85°	5.3	14.9	25.0	37.9	51.0	64.3	77.9	88.6	99.6	110.8	122.3
-87.5°	5.3	14.6	24.1	36.3	48.7	61.1	73.7	83.2	92.8	102.6	112.5
-90°	5.3	4.5	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6





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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°	110.2	118.0	125.7	133.5	139.3	145.1	150.9	156.7	161.6	166.5	171.3
87.5°	3.4	3.2	2.9	2.7	2.7	2.7	2.7	2.7	2.5	2.3	2.0
85°	3.4	3.2	2.9	2.7	2.7	2.7	2.7	2.7	2.5	2.3	2.0
82.5°	3.4	3.2	2.9	2.7	2.7	2.7	2.7	2.7	2.5	2.4	2.3
80°	3.4	3.2	3.1	3.0	3.0	3.0	2.9	2.7	2.7	2.7	2.7
77.5°	3.7	3.6	3.6	3.5	3.4	3.3	3.2	3.2	3.2	3.1	3.0
75°	4.1	4.1	4.0	3.7	3.5	3.5	3.6	3.6	3.5	3.2	3.0
72.5°	4.7	4.6	4.4	3.9	3.8	3.9	3.8	3.7	3.9	4.4	4.9
70°	5.4	5.2	5.1	4.7	4.3	4.5	5.2	5.9	6.5	7.6	9.1
67.5°	6.3	6.5	6.4	5.9	5.8	6.7	7.5	10.3	13.5	15.2	15.8
65°	7.9	8.1	8.5	8.6	8.0	10.5	13.7	17.5	20.9	21.6	21.1
62.5°	9.8	10.8	11.5	12.2	13.2	15.6	19.4	23.1	26.9	25.8	22.3
60°	13.6	14.1	16.2	18.3	19.0	20.3	24.4	26.5	27.7	27.0	21.0
57.5°	18.2	19.2	22.7	25.1	25.8	24.2	25.8	27.1	27.0	23.8	18.2
55°	24.7	26.0	30.3	33.4	33.2	27.3	27.0	28.3	26.3	23.1	18.0
52.5°	34.1	34.9	39.5	42.9	41.7	35.6	31.3	33.4	33.1	28.9	24.6
50°	44.3	48.3	50.0	54.8	54.5	49.6	41.4	45.5	52.7	51.4	45.2
47.5°	58.9	64.0	64.2	70.0	72.6	76.9	70.0	78.7	89.3	111.0	104.1
45°	76.4	84.9	85.5	90.9	104.3	120.5	127.0	126.5	180.2	199.6	213.8
42.5°	95.7	109.4	115.1	114.8	158.0	182.6	196.5	240.9	281.7	294.1	300.8
40°	120.2	136.6	149.1	177.0	221.8	255.7	290.8	338.2	360.6	362.8	362.9
37.5°	147.0	170.9	191.1	238.6	295.7	333.4	377.0	397.4	412.9	413.7	431.2
35°	175.8	208.0	245.3	298.2	361.1	403.9	429.1	447.5	456.0	475.3	560.4
32.5°	208.8	247.6	296.3	355.2	415.2	458.9	473.9	489.8	510.3	567.8	817.7
30°	242.0	292.2	344.7	408.1	469.0	499.7	515.6	535.6	567.8	792.1	1138.3
27.5°	270.3	334.0	391.3	457.4	519.6	540.8	559.2	589.1	726.1	1040.7	1521.8
25°	297.3	367.3	434.3	506.1	557.5	581.0	604.1	644.7	912.0	1410.6	1739.0
22.5°	324.3	400.8	473.4	554.2	595.3	619.7	655.2	806.8	1180.7	1780.2	1934.5
20°	352.1	434.4	512.2	593.0	631.7	657.0	705.8	990.5	1509.1	1937.9	2080.9
17.5°	379.3	466.7	548.7	620.5	660.5	696.4	773.7	1175.2	1804.7	2093.5	2193.0
15°	405.7	497.6	581.9	647.0	689.2	738.8	933.1	1420.8	1996.4	2233.1	2327.7
12.5°	431.0	526.9	611.8	672.4	718.0	780.9	1099.9	1663.6	2124.8	2343.1	2433.6
10°	455.0	554.4	638.7	696.7	746.3	822.0	1268.1	1868.7	2230.8	2417.4	2486.5
7.5°	477.6	578.2	662.7	719.7	774.0	861.6	1431.2	2037.8	2314.4	2480.5	2523.0
5°	497.3	597.6	685.0	744.4	801.8	896.7	1570.9	2173.1	2379.2	2533.0	2560.7
2.5°	514.3	614.3	705.1	768.2	828.7	924.7	1638.4	2228.0	2387.5	2556.2	2599.9
0°	528.7	628.4	722.8	790.4	853.6	948.9	1677.0	2256.5	2377.5	2562.7	2641.0
-2.5°	540.5	647.6	748.0	813.8	877.5	971.8	1674.2	2278.5	2402.5	2621.6	2798.9
-5°	549.8	663.8	770.3	835.4	899.3	991.4	1644.1	2272.2	2436.6	2673.7	2896.2
-7.5°	556.5	676.4	789.0	855.8	920.8	1013.9	1622.6	2299.4	2535.9	2735.6	2935.6
-10°	560.9	684.8	800.5	874.8	942.5	1036.0	1576.4	2288.0	2628.8	2797.7	2973.5
-12.5°	566.0	689.5	807.8	891.3	961.4	1053.5	1494.8	2233.3	2714.8	2864.6	3010.5
-15°	568.2	691.1	811.7	905.2	977.3	1065.9	1376.4	2132.2	2772.2	2901.0	3034.2
-17.5°	567.2	689.6	812.1	916.4	990.1	1073.1	1219.9	1944.8	2682.0	2915.3	3056.2
-20°	563.0	685.0	808.8	924.6	999.6	1082.1	1194.7	1729.3	2435.5	2904.6	3072.0



REPORT NUMBER: P731333 (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°	555.7	677.4	801.3	920.0	1010.3	1093.4	1195.9	1505.9	2144.7	2868.4	3073.2
-25°	546.1	666.7	789.7	915.1	1019.8	1101.1	1192.3	1310.8	1856.7	2555.5	3042.5
-27.5°	534.6	652.2	778.3	905.6	1027.3	1106.1	1193.2	1301.5	1602.8	2194.0	2925.5
-30°	520.1	636.1	762.3	890.9	1016.8	1111.5	1193.4	1280.1	1391.3	1867.9	2498.5
-32.5°	503.8	616.4	741.3	869.2	997.1	1115.1	1186.5	1265.0	1360.6	1531.9	2070.4
-35°	487.2	596.1	715.6	842.4	972.2	1093.8	1180.7	1250.9	1329.3	1433.4	1679.3
-37.5°	471.1	572.4	685.4	810.2	937.6	1055.5	1169.8	1239.2	1311.0	1384.3	1486.6
-40°	452.2	545.4	654.7	772.8	892.6	1010.2	1123.5	1227.2	1293.2	1356.7	1423.0
-42.5°	430.6	521.2	621.6	729.5	842.6	956.8	1071.9	1180.9	1273.6	1330.4	1390.8
-45°	407.2	494.1	586.0	685.4	788.1	898.5	1009.5	1120.6	1219.7	1308.2	1362.2
-47.5°	381.0	464.1	552.0	637.9	733.6	835.2	942.2	1046.7	1148.7	1242.9	1334.8
-50°	353.7	431.5	512.5	592.8	678.3	771.1	869.3	968.4	1066.3	1162.1	1252.5
-52.5°	329.3	395.7	470.6	546.9	624.6	707.3	794.6	884.2	978.0	1071.2	1155.3
-55°	302.9	363.5	426.0	497.9	571.7	646.1	719.1	799.9	883.6	971.4	1049.9
-57.5°	281.7	330.2	385.0	446.0	515.2	585.1	649.4	714.4	788.9	866.7	935.0
-60°	262.8	301.1	345.7	398.7	455.5	518.7	579.2	639.2	699.3	758.7	823.2
-62.5°	244.6	277.8	312.8	353.0	403.2	451.8	505.0	560.5	616.0	669.3	720.8
-65°	233.5	256.7	286.5	319.3	352.1	394.4	437.5	480.1	529.1	577.3	624.4
-67.5°	221.6	243.5	265.7	289.8	320.0	347.7	375.3	413.9	452.0	488.1	525.2
-70°	210.5	229.9	250.5	271.4	291.7	312.2	337.5	362.5	387.0	413.6	445.5
-72.5°	199.0	217.0	235.5	254.3	272.5	289.5	306.6	323.7	343.8	365.4	386.4
-75°	186.7	203.6	220.5	237.7	253.5	268.5	283.8	299.3	314.5	329.6	344.8
-77.5°	173.7	188.9	204.4	220.2	234.2	247.5	260.9	274.5	287.9	301.0	314.2
-80°	160.1	173.8	187.6	201.6	213.7	225.4	237.3	249.1	260.8	272.4	283.9
-82.5°	145.9	157.9	170.0	182.3	192.7	202.7	212.8	222.9	232.8	242.6	252.5
-85°	132.1	141.7	152.0	162.5	171.1	179.7	188.3	196.8	205.0	213.2	221.4
-87.5°	121.2	129.9	138.6	147.2	154.0	160.8	167.5	174.2	180.5	186.8	193.2
-90°	3.4	3.2	2.9	2.7	2.7	2.7	2.7	2.7	2.5	2.3	2.0



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	176.2	179.6	182.9	186.3	189.6	192.5	195.4	198.3	201.2	203.0	204.8
87.5°	1.8	1.8	1.7	1.7	1.7	1.5	1.3	1.1	0.9	0.9	0.9
85°	1.8	1.8	1.8	1.8	1.8	1.6	1.4	1.1	0.9	0.9	0.9
82.5°	2.2	2.2	2.1	2.0	1.8	1.8	1.7	1.7	1.7	1.7	1.8
80°	2.7	2.5	2.3	2.1	1.8	1.8	1.8	1.8	1.8	1.8	1.8
77.5°	2.8	2.5	2.3	2.1	1.8	1.8	1.8	1.8	1.8	1.8	1.8
75°	2.8	2.7	2.8	2.8	2.7	2.7	2.7	2.6	2.5	2.4	2.2
72.5°	5.3	5.5	5.4	5.6	5.6	5.8	6.0	6.1	6.1	6.2	6.2
70°	10.0	10.4	10.6	10.5	9.9	9.3	9.1	8.8	8.6	8.8	9.3
67.5°	15.3	14.2	13.6	12.9	11.5	10.3	9.5	8.8	8.0	7.6	7.5
65°	18.9	14.9	13.0	11.5	10.4	9.0	7.8	6.7	5.7	5.2	4.9
62.5°	18.0	12.8	10.1	8.5	7.1	5.9	4.9	4.1	3.6	3.3	3.3
60°	15.4	10.0	7.0	5.7	4.3	2.8	2.7	2.5	2.3	2.1	2.3
57.5°	13.7	9.0	5.5	5.4	4.7	3.4	2.9	2.9	2.5	1.8	2.1
55°	15.3	12.9	9.0	9.2	9.0	7.5	6.4	7.7	7.4	5.8	6.4
52.5°	23.0	26.3	21.5	19.9	27.2	27.0	21.1	28.8	33.0	32.3	33.0
50°	54.0	60.9	68.3	62.5	76.8	85.3	83.4	93.5	103.8	103.5	106.8
47.5°	127.8	147.1	149.1	153.0	169.3	189.9	206.8	218.6	224.7	222.1	223.9
45°	228.7	233.0	243.0	265.1	292.8	326.1	351.5	366.2	415.9	451.1	471.7
42.5°	303.1	316.6	341.1	399.5	442.2	540.5	659.4	705.6	764.0	793.6	795.5
40°	377.7	412.2	513.3	619.6	850.5	1022.1	1032.4	1105.2	1138.7	1101.7	1096.2
37.5°	501.0	629.0	802.8	1048.5	1155.9	1202.5	1228.1	1237.4	1244.1	1238.0	1234.8
35°	743.9	966.6	1137.2	1217.3	1265.9	1267.4	1273.3	1272.5	1264.5	1260.4	1251.6
32.5°	1102.2	1314.7	1319.9	1313.7	1323.8	1318.0	1306.8	1301.7	1284.5	1274.1	1277.6
30°	1471.7	1472.9	1451.9	1403.3	1378.9	1371.4	1355.3	1342.1	1325.7	1328.2	1385.0
27.5°	1618.3	1600.3	1571.1	1529.0	1447.4	1431.4	1418.5	1412.9	1481.2	1543.6	1599.3
25°	1782.4	1735.8	1719.7	1683.1	1599.1	1506.2	1547.1	1611.3	1700.7	1793.7	1883.4
22.5°	1924.2	1890.6	1880.2	1866.6	1729.6	1689.6	1745.7	1851.4	1973.4	2134.9	2596.4
20°	2064.0	2027.7	2015.8	1947.5	1875.6	1885.5	1989.7	2174.0	2515.2	3741.3	5238.6
17.5°	2181.5	2143.9	2103.3	2023.6	2000.7	2100.7	2309.0	2956.3	4567.0	8591.6	12682.0
15°	2291.0	2241.7	2172.6	2120.2	2163.5	2349.6	2865.7	5071.4	10288.4	17043.7	25560.9
12.5°	2388.3	2312.8	2216.1	2188.9	2320.6	2634.0	4657.8	9951.4	17931.8	27555.5	47550.7
10°	2456.0	2358.1	2273.8	2320.7	2529.9	3371.2	6702.8	14919.4	26725.5	48250.3	73143.8
7.5°	2485.1	2396.5	2347.4	2448.0	2727.4	4329.4	10090.3	20633.7	37746.9	66690.2	106408.3
5°	2518.1	2456.9	2429.6	2574.1	2917.7	5110.1	12526.5	25442.4	49532.8	84009.1	135155.9
2.5°	2584.7	2526.5	2507.5	2684.8	3084.2	5838.0	14430.2	29180.9	57341.1	98460.7	160667.0
0°	2702.4	2581.3	2566.2	2739.8	3151.0	6169.4	15679.4	31435.4	61055.0	104644.2	173219.0
-2.5°	2795.8	2651.6	2622.8	2777.6	3180.5	6007.0	15552.7	31357.7	59539.8	102577.5	165247.9
-5°	2877.3	2732.6	2692.8	2836.7	3245.2	6001.0	14728.8	28772.5	53277.2	90136.6	139264.2
-7.5°	2949.9	2824.7	2765.9	2880.3	3253.8	5374.0	11913.2	23688.8	42585.9	70373.6	107788.9
-10°	3026.3	2930.2	2850.0	2926.6	3217.6	4275.9	7969.8	17075.8	30327.9	51034.1	76708.0
-12.5°	3113.7	3065.3	2947.3	2958.5	3168.6	3608.2	5890.5	11921.5	21055.5	32148.2	50758.2
-15°	3187.9	3185.6	3086.9	3055.6	3160.0	3441.9	4109.7	6620.3	12772.2	20665.5	29871.6
-17.5°	3203.3	3282.2	3244.4	3148.5	3154.7	3312.7	3587.9	4387.2	6415.6	11370.6	16848.2
-20°	3213.3	3381.8	3385.7	3307.9	3239.6	3222.0	3347.8	3580.9	4034.2	5708.6	7912.7



REPORT NUMBER: P731333 (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°	3228.5	3388.7	3502.6	3481.1	3347.1	3268.7	3240.6	3328.8	3482.3	3698.3	4413.5
-25°	3235.7	3385.2	3548.3	3593.1	3536.9	3393.4	3286.2	3226.3	3280.5	3349.1	3489.0
-27.5°	3204.9	3379.8	3538.0	3670.6	3686.7	3592.9	3435.2	3307.3	3257.5	3210.5	3268.0
-30°	3153.6	3349.1	3514.5	3677.5	3742.8	3712.8	3630.2	3526.4	3405.1	3310.8	3277.7
-32.5°	2733.7	3303.0	3472.4	3613.7	3721.3	3752.1	3752.9	3697.3	3645.5	3572.8	3487.7
-35°	2252.3	2883.7	3434.8	3506.0	3604.6	3706.5	3782.2	3784.8	3778.7	3744.2	3708.3
-37.5°	1750.8	2339.3	2869.3	3293.5	3442.7	3562.6	3692.2	3779.7	3834.7	3824.8	3818.2
-40°	1524.3	1709.8	2205.6	2638.1	3000.9	3342.3	3482.6	3640.0	3766.5	3810.5	3840.2
-42.5°	1454.3	1533.7	1614.4	1942.1	2315.9	2644.7	2953.9	3248.8	3512.1	3661.2	3765.0
-45°	1415.9	1460.1	1509.5	1582.5	1645.6	1917.9	2195.0	2464.1	2792.5	3094.8	3357.0
-47.5°	1380.5	1415.0	1453.2	1490.8	1525.8	1575.3	1618.1	1694.5	1940.6	2188.6	2437.5
-50°	1323.3	1380.3	1412.1	1440.1	1464.9	1487.9	1507.7	1542.2	1583.0	1618.6	1654.6
-52.5°	1227.7	1292.0	1352.9	1399.1	1418.6	1437.6	1457.1	1483.3	1507.4	1529.5	1546.5
-55°	1120.6	1185.6	1247.1	1293.9	1335.9	1374.6	1409.1	1432.2	1454.8	1476.6	1493.1
-57.5°	1002.8	1069.0	1129.2	1174.1	1216.1	1255.1	1293.1	1329.5	1362.9	1392.9	1418.6
-60°	883.5	939.4	993.7	1041.2	1084.5	1123.6	1161.1	1197.0	1229.8	1259.4	1285.0
-62.5°	771.4	823.2	866.2	905.0	942.3	978.4	1016.3	1051.3	1083.1	1112.1	1138.7
-65°	670.4	715.1	747.6	778.0	806.7	837.7	871.1	901.9	929.9	956.0	980.0
-67.5°	566.5	605.2	633.8	660.1	684.6	709.3	736.0	760.8	783.8	805.7	826.2
-70°	476.3	503.3	523.2	543.4	565.2	587.4	610.4	631.3	650.2	668.1	684.6
-72.5°	406.9	423.5	437.5	454.7	470.3	486.8	503.9	519.7	534.2	548.2	561.4
-75°	360.0	372.1	383.5	394.2	404.2	416.0	428.3	439.9	450.9	461.1	470.9
-77.5°	327.3	336.8	344.6	352.0	359.1	368.3	377.9	387.3	396.4	404.2	411.3
-80°	295.4	303.0	309.7	316.1	322.3	330.3	338.3	346.2	353.9	360.9	367.6
-82.5°	262.3	268.5	274.2	279.7	285.0	291.8	298.4	304.9	311.2	317.0	322.6
-85°	229.4	234.2	238.6	243.0	247.1	252.6	258.0	263.4	268.6	272.3	275.9
-87.5°	199.5	203.0	206.4	209.7	213.0	216.9	220.9	224.8	228.7	231.2	233.7
-90°	1.8	1.6	1.4	1.1	0.9	0.9	0.9	0.9	0.9	0.9	0.9



REPORT NUMBER: P731333 (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°	206.5	208.3	207.9	207.4	207.9	208.3	206.5	204.8	203.0	201.2	198.3
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
75°	2.0	1.8	1.8	1.8	1.8	1.8	2.0	2.2	2.4	2.5	2.6
72.5°	6.2	6.1	6.2	6.2	6.2	6.1	6.2	6.2	6.2	6.1	6.1
70°	9.9	10.5	10.7	10.7	10.7	10.5	9.9	9.3	8.8	8.6	8.8
67.5°	7.3	7.2	6.7	6.2	6.7	7.2	7.3	7.5	7.6	8.0	8.8
65°	4.7	4.6	4.5	4.5	4.5	4.6	4.7	4.9	5.2	5.7	6.7
62.5°	3.4	3.6	3.6	3.6	3.6	3.6	3.4	3.3	3.3	3.6	4.1
60°	2.5	2.7	2.7	2.7	2.7	2.7	2.5	2.3	2.1	2.3	2.5
57.5°	2.4	2.6	2.7	2.7	2.7	2.6	2.4	2.1	1.8	2.5	2.9
55°	6.8	6.9	6.7	6.2	6.7	6.9	6.8	6.4	5.8	7.4	7.7
52.5°	32.5	30.0	26.1	21.4	26.1	30.0	32.5	33.0	32.3	33.0	28.8
50°	113.0	116.0	113.3	105.0	113.3	116.0	113.0	106.8	103.5	103.8	93.5
47.5°	232.7	235.2	227.1	208.3	227.1	235.2	232.7	223.9	222.1	224.7	218.6
45°	487.1	483.3	441.4	354.3	441.4	483.3	487.1	471.7	451.1	415.9	366.2
42.5°	840.0	877.5	899.5	899.9	899.5	877.5	840.0	795.5	793.6	764.0	705.6
40°	1087.3	1043.4	995.5	988.0	995.5	1043.4	1087.3	1096.2	1101.7	1138.7	1105.2
37.5°	1227.3	1236.6	1231.3	1127.8	1231.3	1236.6	1227.3	1234.8	1238.0	1244.1	1237.4
35°	1271.9	1341.5	1413.1	1427.8	1413.1	1341.5	1271.9	1251.6	1260.4	1264.5	1272.5
32.5°	1293.5	1317.3	1323.8	1326.3	1323.8	1317.3	1293.5	1277.6	1274.1	1284.5	1301.7
30°	1411.2	1426.8	1424.5	1421.5	1424.5	1426.8	1411.2	1385.0	1328.2	1325.7	1342.1
27.5°	1625.6	1651.4	1662.8	1670.8	1662.8	1651.4	1625.6	1599.3	1543.6	1481.2	1412.9
25°	1932.5	1971.9	1998.9	2010.8	1998.9	1971.9	1932.5	1883.4	1793.7	1700.7	1611.3
22.5°	3129.3	3402.4	3672.6	3812.4	3672.6	3402.4	3129.3	2596.4	2134.9	1973.4	1851.4
20°	7812.1	8991.9	9530.8	9688.1	9530.8	8991.9	7812.1	5238.6	3741.3	2515.2	2174.0
17.5°	18192.6	22665.1	25656.5	23035.4	25656.5	22665.1	18192.6	12682.0	8591.6	4567.0	2956.3
15°	37236.0	48563.2	54901.6	51334.9	54901.6	48563.2	37236.0	25560.9	17043.7	10288.4	5071.4
12.5°	67088.6	84766.4	96639.5	92724.2	96639.5	84766.4	67088.6	47550.7	27555.5	17931.8	9951.4
10°	105596.0	141143.4	164813.0	170664.3	164813.0	141143.4	105596.0	73143.8	48250.3	26725.5	14919.4
7.5°	153240.0	197252.5	231993.7	237370.8	231993.7	197252.5	153240.0	106408.3	66690.2	37746.9	20633.7
5°	199849.9	251801.0	287948.5	297332.7	287948.5	251801.0	199849.9	135155.9	84009.1	49532.8	25442.4
2.5°	228779.4	285323.9	328865.5	348044.6	328865.5	285323.9	228779.4	160667.0	98460.7	57341.1	29180.9
0°	239105.2	298158.7	345401.4	372912.7	345401.4	298158.7	239105.2	173219.0	104644.2	61055.0	31435.4
-2.5°	231099.4	284578.0	324459.2	343584.1	324459.2	284578.0	231099.4	165247.9	102577.5	59539.8	31357.7
-5°	196831.4	249966.2	282414.3	297993.2	282414.3	249966.2	196831.4	139264.2	90136.6	53277.2	28772.5
-7.5°	153806.2	196334.2	224353.8	238527.0	224353.8	196334.2	153806.2	107788.9	70373.6	42585.9	23688.8
-10°	107618.2	141358.5	160246.0	171810.8	160246.0	141358.5	107618.2	76708.0	51034.1	30327.9	17075.8
-12.5°	70021.7	89660.5	100238.8	107648.3	100238.8	89660.5	70021.7	50758.2	32148.2	21055.5	11921.5
-15°	42507.3	52078.5	57821.6	61421.8	57821.6	52078.5	42507.3	29871.6	20665.5	12772.2	6620.3
-17.5°	23725.1	27836.0	30746.9	32357.6	30746.9	27836.0	23725.1	16848.2	11370.6	6415.6	4387.2
-20°	11772.5	14373.1	16081.2	16798.3	16081.2	14373.1	11772.5	7912.7	5708.6	4034.2	3580.9



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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°	5433.1	6127.7	6587.7	6806.7	6587.7	6127.7	5433.1	4413.5	3698.3	3482.3	3328.8
-25°	3624.9	3734.0	3814.0	3848.9	3814.0	3734.0	3624.9	3489.0	3349.1	3280.5	3226.3
-27.5°	3320.2	3378.0	3425.9	3444.8	3425.9	3378.0	3320.2	3268.0	3210.5	3257.5	3307.3
-30°	3252.3	3254.9	3268.5	3268.5	3268.5	3254.9	3252.3	3277.7	3310.8	3405.1	3526.4
-32.5°	3423.3	3385.7	3369.3	3386.9	3369.3	3385.7	3423.3	3487.7	3572.8	3645.5	3697.3
-35°	3684.4	3674.3	3675.1	3694.0	3675.1	3674.3	3684.4	3708.3	3744.2	3778.7	3784.8
-37.5°	3819.9	3827.8	3836.8	3839.1	3836.8	3827.8	3819.9	3818.2	3824.8	3834.7	3779.7
-40°	3857.5	3873.1	3884.8	3888.9	3884.8	3873.1	3857.5	3840.2	3810.5	3766.5	3640.0
-42.5°	3810.9	3841.9	3858.3	3862.2	3858.3	3841.9	3810.9	3765.0	3661.2	3512.1	3248.8
-45°	3547.4	3685.6	3763.7	3784.8	3763.7	3685.6	3547.4	3357.0	3094.8	2792.5	2464.1
-47.5°	2679.7	2896.5	3047.5	3117.2	3047.5	2896.5	2679.7	2437.5	2188.6	1940.6	1694.5
-50°	1692.4	1728.1	1754.8	1771.3	1754.8	1728.1	1692.4	1654.6	1618.6	1583.0	1542.2
-52.5°	1561.3	1574.4	1582.1	1585.3	1582.1	1574.4	1561.3	1546.5	1529.5	1507.4	1483.3
-55°	1507.3	1519.5	1524.8	1525.7	1524.8	1519.5	1507.3	1493.1	1476.6	1454.8	1432.2
-57.5°	1440.7	1459.2	1467.4	1468.7	1467.4	1459.2	1440.7	1418.6	1392.9	1362.9	1329.5
-60°	1306.8	1324.7	1333.6	1337.0	1333.6	1324.7	1306.8	1285.0	1259.4	1229.8	1197.0
-62.5°	1161.8	1181.3	1187.2	1186.5	1187.2	1181.3	1161.8	1138.7	1112.1	1083.1	1051.3
-65°	1001.0	1018.9	1024.0	1023.6	1024.0	1018.9	1001.0	980.0	956.0	929.9	901.9
-67.5°	844.4	860.2	865.6	867.0	865.6	860.2	844.4	826.2	805.7	783.8	760.8
-70°	699.1	711.5	714.7	714.8	714.7	711.5	699.1	684.6	668.1	650.2	631.3
-72.5°	573.4	584.1	586.0	585.7	586.0	584.1	573.4	561.4	548.2	534.2	519.7
-75°	480.0	488.5	488.8	487.8	488.8	488.5	480.0	470.9	461.1	450.9	439.9
-77.5°	418.1	424.4	425.7	426.4	425.7	424.4	418.1	411.3	404.2	396.4	387.3
-80°	374.0	380.1	379.9	379.2	379.9	380.1	374.0	367.6	360.9	353.9	346.2
-82.5°	328.0	333.1	333.2	332.9	333.2	333.1	328.0	322.6	317.0	311.2	304.9
-85°	279.4	282.7	282.6	282.2	282.6	282.7	279.4	275.9	272.3	268.6	263.4
-87.5°	236.1	238.5	238.6	238.6	238.6	238.5	236.1	233.7	231.2	228.7	224.8
-90°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	195.4	192.5	189.6	186.3	182.9	179.6	176.2	171.3	166.5	161.6	156.7
87.5°	1.3	1.5	1.7	1.7	1.7	1.8	1.8	2.0	2.3	2.5	2.7
85°	1.4	1.6	1.8	1.8	1.8	1.8	1.8	2.0	2.3	2.5	2.7
82.5°	1.7	1.8	1.8	2.0	2.1	2.2	2.2	2.3	2.4	2.5	2.7
80°	1.8	1.8	1.8	2.1	2.3	2.5	2.7	2.7	2.7	2.7	2.7
77.5°	1.8	1.8	1.8	2.1	2.3	2.5	2.8	3.0	3.1	3.2	3.2
75°	2.7	2.7	2.7	2.8	2.8	2.7	2.8	3.0	3.2	3.5	3.6
72.5°	6.0	5.8	5.6	5.6	5.4	5.5	5.3	4.9	4.4	3.9	3.7
70°	9.1	9.3	9.9	10.5	10.6	10.4	10.0	9.1	7.6	6.5	5.9
67.5°	9.5	10.3	11.5	12.9	13.6	14.2	15.3	15.8	15.2	13.5	10.3
65°	7.8	9.0	10.4	11.5	13.0	14.9	18.9	21.1	21.6	20.9	17.5
62.5°	4.9	5.9	7.1	8.5	10.1	12.8	18.0	22.3	25.8	26.9	23.1
60°	2.7	2.8	4.3	5.7	7.0	10.0	15.4	21.0	27.0	27.7	26.5
57.5°	2.9	3.4	4.7	5.4	5.5	9.0	13.7	18.2	23.8	27.0	27.1
55°	6.4	7.5	9.0	9.2	9.0	12.9	15.3	18.0	23.1	26.3	28.3
52.5°	21.1	27.0	27.2	19.9	21.5	26.3	23.0	24.6	28.9	33.1	33.4
50°	83.4	85.3	76.8	62.5	68.3	60.9	54.0	45.2	51.4	52.7	45.5
47.5°	206.8	189.9	169.3	153.0	149.1	147.1	127.8	104.1	111.0	89.3	78.7
45°	351.5	326.1	292.8	265.1	243.0	233.0	228.7	213.8	199.6	180.2	126.5
42.5°	659.4	540.5	442.2	399.5	341.1	316.6	303.1	300.8	294.1	281.7	240.9
40°	1032.4	1022.1	850.5	619.6	513.3	412.2	377.7	362.9	362.8	360.6	338.2
37.5°	1228.1	1202.5	1155.9	1048.5	802.8	629.0	501.0	431.2	413.7	412.9	397.4
35°	1273.3	1267.4	1265.9	1217.3	1137.2	966.6	743.9	560.4	475.3	456.0	447.5
32.5°	1306.8	1318.0	1323.8	1313.7	1319.9	1314.7	1102.2	817.7	567.8	510.3	489.8
30°	1355.3	1371.4	1378.9	1403.3	1451.9	1472.9	1471.7	1138.3	792.1	567.8	535.6
27.5°	1418.5	1431.4	1447.4	1529.0	1571.1	1600.3	1618.3	1521.8	1040.7	726.1	589.1
25°	1547.1	1506.2	1599.1	1683.1	1719.7	1735.8	1782.4	1739.0	1410.6	912.0	644.7
22.5°	1745.7	1689.6	1729.6	1866.6	1880.2	1890.6	1924.2	1934.5	1780.2	1180.7	806.8
20°	1989.7	1885.5	1875.6	1947.5	2015.8	2027.7	2064.0	2080.9	1937.9	1509.1	990.5
17.5°	2309.0	2100.7	2000.7	2023.6	2103.3	2143.9	2181.5	2193.0	2093.5	1804.7	1175.2
15°	2865.7	2349.6	2163.5	2120.2	2172.6	2241.7	2291.0	2327.7	2233.1	1996.4	1420.8
12.5°	4657.8	2634.0	2320.6	2188.9	2216.1	2312.8	2388.3	2433.6	2343.1	2124.8	1663.6
10°	6702.8	3371.2	2529.9	2320.7	2273.8	2358.1	2456.0	2486.5	2417.4	2230.8	1868.7
7.5°	10090.3	4329.4	2727.4	2448.0	2347.4	2396.5	2485.1	2523.0	2480.5	2314.4	2037.8
5°	12526.5	5110.1	2917.7	2574.1	2429.6	2456.9	2518.1	2560.7	2533.0	2379.2	2173.1
2.5°	14430.2	5838.0	3084.2	2684.8	2507.5	2526.5	2584.7	2599.9	2556.2	2387.5	2228.0
0°	15679.4	6169.4	3151.0	2739.8	2566.2	2581.3	2702.4	2641.0	2562.7	2377.5	2256.5
-2.5°	15552.7	6007.0	3180.5	2777.6	2622.8	2651.6	2795.8	2798.9	2621.6	2402.5	2278.5
-5°	14728.8	6001.0	3245.2	2836.7	2692.8	2732.6	2877.3	2896.2	2673.7	2436.6	2272.2
-7.5°	11913.2	5374.0	3253.8	2880.3	2765.9	2824.7	2949.9	2935.6	2735.6	2535.9	2299.4
-10°	7969.8	4275.9	3217.6	2926.6	2850.0	2930.2	3026.3	2973.5	2797.7	2628.8	2288.0
-12.5°	5890.5	3608.2	3168.6	2958.5	2947.3	3065.3	3113.7	3010.5	2864.6	2714.8	2233.3
-15°	4109.7	3441.9	3160.0	3055.6	3086.9	3185.6	3187.9	3034.2	2901.0	2772.2	2132.2
-17.5°	3587.9	3312.7	3154.7	3148.5	3244.4	3282.2	3203.3	3056.2	2915.3	2682.0	1944.8
-20°	3347.8	3222.0	3239.6	3307.9	3385.7	3381.8	3213.3	3072.0	2904.6	2435.5	1729.3



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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°	3240.6	3268.7	3347.1	3481.1	3502.6	3388.7	3228.5	3073.2	2868.4	2144.7	1505.9
-25°	3286.2	3393.4	3536.9	3593.1	3548.3	3385.2	3235.7	3042.5	2555.5	1856.7	1310.8
-27.5°	3435.2	3592.9	3686.7	3670.6	3538.0	3379.8	3204.9	2925.5	2194.0	1602.8	1301.5
-30°	3630.2	3712.8	3742.8	3677.5	3514.5	3349.1	3153.6	2498.5	1867.9	1391.3	1280.1
-32.5°	3752.9	3752.1	3721.3	3613.7	3472.4	3303.0	2733.7	2070.4	1531.9	1360.6	1265.0
-35°	3782.2	3706.5	3604.6	3506.0	3434.8	2883.7	2252.3	1679.3	1433.4	1329.3	1250.9
-37.5°	3692.2	3562.6	3442.7	3293.5	2869.3	2339.3	1750.8	1486.6	1384.3	1311.0	1239.2
-40°	3482.6	3342.3	3000.9	2638.1	2205.6	1709.8	1524.3	1423.0	1356.7	1293.2	1227.2
-42.5°	2953.9	2644.7	2315.9	1942.1	1614.4	1533.7	1454.3	1390.8	1330.4	1273.6	1180.9
-45°	2195.0	1917.9	1645.6	1582.5	1509.5	1460.1	1415.9	1362.2	1308.2	1219.7	1120.6
-47.5°	1618.1	1575.3	1525.8	1490.8	1453.2	1415.0	1380.5	1334.8	1242.9	1148.7	1046.7
-50°	1507.7	1487.9	1464.9	1440.1	1412.1	1380.3	1323.3	1252.5	1162.1	1066.3	968.4
-52.5°	1457.1	1437.6	1418.6	1399.1	1352.9	1292.0	1227.7	1155.3	1071.2	978.0	884.2
-55°	1409.1	1374.6	1335.9	1293.9	1247.1	1185.6	1120.6	1049.9	971.4	883.6	799.9
-57.5°	1293.1	1255.1	1216.1	1174.1	1129.2	1069.0	1002.8	935.0	866.7	788.9	714.4
-60°	1161.1	1123.6	1084.5	1041.2	993.7	939.4	883.5	823.2	758.7	699.3	639.2
-62.5°	1016.3	978.4	942.3	905.0	866.2	823.2	771.4	720.8	669.3	616.0	560.5
-65°	871.1	837.7	806.7	778.0	747.6	715.1	670.4	624.4	577.3	529.1	480.1
-67.5°	736.0	709.3	684.6	660.1	633.8	605.2	566.5	525.2	488.1	452.0	413.9
-70°	610.4	587.4	565.2	543.4	523.2	503.3	476.3	445.5	413.6	387.0	362.5
-72.5°	503.9	486.8	470.3	454.7	437.5	423.5	406.9	386.4	365.4	343.8	323.7
-75°	428.3	416.0	404.2	394.2	383.5	372.1	360.0	344.8	329.6	314.5	299.3
-77.5°	377.9	368.3	359.1	352.0	344.6	336.8	327.3	314.2	301.0	287.9	274.5
-80°	338.3	330.3	322.3	316.1	309.7	303.0	295.4	283.9	272.4	260.8	249.1
-82.5°	298.4	291.8	285.0	279.7	274.2	268.5	262.3	252.5	242.6	232.8	222.9
-85°	258.0	252.6	247.1	243.0	238.6	234.2	229.4	221.4	213.2	205.0	196.8
-87.5°	220.9	216.9	213.0	209.7	206.4	203.0	199.5	193.2	186.8	180.5	174.2
-90°	0.9	0.9	0.9	1.1	1.4	1.6	1.8	2.0	2.3	2.5	2.7





REPORT NUMBER: P731333 (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°	150.9	145.1	139.3	133.5	125.7	118.0	110.2	102.4	94.2	85.9	77.7
87.5°	2.7	2.7	2.7	2.7	2.9	3.2	3.4	3.6	3.6	3.6	3.6
85°	2.7	2.7	2.7	2.7	2.9	3.2	3.4	3.6	3.6	3.6	3.6
82.5°	2.7	2.7	2.7	2.7	2.9	3.2	3.4	3.6	3.7	3.6	3.6
80°	2.9	3.0	3.0	3.0	3.1	3.2	3.4	3.6	3.9	3.9	3.9
77.5°	3.2	3.3	3.4	3.5	3.6	3.6	3.7	3.8	4.1	4.2	4.3
75°	3.6	3.5	3.5	3.7	4.0	4.1	4.1	4.3	4.6	4.6	4.7
72.5°	3.8	3.9	3.8	3.9	4.4	4.6	4.7	4.9	5.4	5.5	5.2
70°	5.2	4.5	4.3	4.7	5.1	5.2	5.4	5.8	6.2	6.4	6.2
67.5°	7.5	6.7	5.8	5.9	6.4	6.5	6.3	7.0	7.6	7.4	7.2
65°	13.7	10.5	8.0	8.6	8.5	8.1	7.9	8.6	9.1	9.0	8.2
62.5°	19.4	15.6	13.2	12.2	11.5	10.8	9.8	10.9	10.9	10.7	9.8
60°	24.4	20.3	19.0	18.3	16.2	14.1	13.6	13.4	13.5	12.6	11.6
57.5°	25.8	24.2	25.8	25.1	22.7	19.2	18.2	17.8	16.3	15.1	13.6
55°	27.0	27.3	33.2	33.4	30.3	26.0	24.7	23.3	19.8	17.9	16.0
52.5°	31.3	35.6	41.7	42.9	39.5	34.9	34.1	29.4	25.8	20.8	19.4
50°	41.4	49.6	54.5	54.8	50.0	48.3	44.3	39.0	32.1	24.8	23.1
47.5°	70.0	76.9	72.6	70.0	64.2	64.0	58.9	49.8	38.9	31.0	27.1
45°	127.0	120.5	104.3	90.9	85.5	84.9	76.4	61.2	49.4	38.7	31.4
42.5°	196.5	182.6	158.0	114.8	115.1	109.4	95.7	78.2	60.4	46.8	37.4
40°	290.8	255.7	221.8	177.0	149.1	136.6	120.2	97.4	72.0	56.2	44.7
37.5°	377.0	333.4	295.7	238.6	191.1	170.9	147.0	117.8	87.1	68.0	52.1
35°	429.1	403.9	361.1	298.2	245.3	208.0	175.8	140.8	106.0	80.0	59.7
32.5°	473.9	458.9	415.2	355.2	296.3	247.6	208.8	164.7	124.5	92.2	67.4
30°	515.6	499.7	469.0	408.1	344.7	292.2	242.0	187.6	142.6	104.6	75.8
27.5°	559.2	540.8	519.6	457.4	391.3	334.0	270.3	209.5	160.3	118.1	86.0
25°	604.1	581.0	557.5	506.1	434.3	367.3	297.3	230.4	178.5	133.0	96.1
22.5°	655.2	619.7	595.3	554.2	473.4	400.8	324.3	253.4	196.2	147.3	106.0
20°	705.8	657.0	631.7	593.0	512.2	434.4	352.1	275.1	213.0	161.0	115.8
17.5°	773.7	696.4	660.5	620.5	548.7	466.7	379.3	295.6	228.6	174.0	125.3
15°	933.1	738.8	689.2	647.0	581.9	497.6	405.7	314.6	243.2	186.4	134.1
12.5°	1099.9	780.9	718.0	672.4	611.8	526.9	431.0	332.1	256.7	197.6	141.7
10°	1268.1	822.0	746.3	696.7	638.7	554.4	455.0	350.2	271.5	207.8	148.7
7.5°	1431.2	861.6	774.0	719.7	662.7	578.2	477.6	371.2	285.8	217.2	155.1
5°	1570.9	896.7	801.8	744.4	685.0	597.6	497.3	391.0	299.4	225.9	160.7
2.5°	1638.4	924.7	828.7	768.2	705.1	614.3	514.3	409.1	311.9	233.6	165.7
0°	1677.0	948.9	853.6	790.4	722.8	628.4	528.7	425.5	323.1	240.3	170.0
-2.5°	1674.2	971.8	877.5	813.8	748.0	647.6	540.5	434.6	331.8	248.2	175.8
-5°	1644.1	991.4	899.3	835.4	770.3	663.8	549.8	441.7	338.9	254.8	180.9
-7.5°	1622.6	1013.9	920.8	855.8	789.0	676.4	556.5	446.6	344.5	260.2	185.1
-10°	1576.4	1036.0	942.5	874.8	800.5	684.8	560.9	449.5	348.6	264.2	188.5
-12.5°	1494.8	1053.5	961.4	891.3	807.8	689.5	566.0	452.6	351.4	266.9	190.9
-15°	1376.4	1065.9	977.3	905.2	811.7	691.1	568.2	454.3	353.9	268.4	192.4
-17.5°	1219.9	1073.1	990.1	916.4	812.1	689.6	567.2	453.6	354.6	268.9	193.6
-20°	1194.7	1082.1	999.6	924.6	808.8	685.0	563.0	450.3	353.6	268.0	194.1



REPORT NUMBER: P731333 (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°	1195.9	1093.4	1010.3	920.0	801.3	677.4	555.7	444.5	350.6	265.6	193.6
-25°	1192.3	1101.1	1019.8	915.1	789.7	666.7	546.1	436.2	345.9	261.7	192.0
-27.5°	1193.2	1106.1	1027.3	905.6	778.3	652.2	534.6	429.1	339.6	256.4	189.3
-30°	1193.4	1111.5	1016.8	890.9	762.3	636.1	520.1	420.0	332.2	251.4	185.4
-32.5°	1186.5	1115.1	997.1	869.2	741.3	616.4	503.8	408.7	323.1	246.1	183.3
-35°	1180.7	1093.8	972.2	842.4	715.6	596.1	487.2	395.3	312.3	239.4	181.3
-37.5°	1169.8	1055.5	937.6	810.2	685.4	572.4	471.1	381.4	299.8	231.3	178.5
-40°	1123.5	1010.2	892.6	772.8	654.7	545.4	452.2	365.6	288.2	221.9	175.0
-42.5°	1071.9	956.8	842.6	729.5	621.6	521.2	430.6	347.2	275.7	215.0	170.7
-45°	1009.5	898.5	788.1	685.4	586.0	494.1	407.2	327.1	261.4	209.2	166.9
-47.5°	942.2	835.2	733.6	637.9	552.0	464.1	381.0	309.1	245.7	202.3	164.5
-50°	869.3	771.1	678.3	592.8	512.5	431.5	353.7	289.3	236.1	194.1	161.6
-52.5°	794.6	707.3	624.6	546.9	470.6	395.7	329.3	268.7	225.3	188.1	158.1
-55°	719.1	646.1	571.7	497.9	426.0	363.5	302.9	254.9	213.4	182.9	154.2
-57.5°	649.4	585.1	515.2	446.0	385.0	330.2	281.7	239.8	205.4	177.2	150.9
-60°	579.2	518.7	455.5	398.7	345.7	301.1	262.8	226.1	198.2	171.3	146.9
-62.5°	505.0	451.8	403.2	353.0	312.8	277.8	244.6	217.3	190.5	165.9	142.4
-65°	437.5	394.4	352.1	319.3	286.5	256.7	233.5	207.8	183.3	160.0	137.5
-67.5°	375.3	347.7	320.0	289.8	265.7	243.5	221.6	198.8	176.0	153.8	132.2
-70°	337.5	312.2	291.7	271.4	250.5	229.9	210.5	189.7	168.1	146.9	126.5
-72.5°	306.6	289.5	272.5	254.3	235.5	217.0	199.0	180.0	159.4	139.6	120.5
-75°	283.8	268.5	253.5	237.7	220.5	203.6	186.7	169.3	150.2	131.9	114.1
-77.5°	260.9	247.5	234.2	220.2	204.4	188.9	173.7	158.1	140.6	123.7	107.4
-80°	237.3	225.4	213.7	201.6	187.6	173.8	160.1	146.2	130.4	115.2	100.4
-82.5°	212.8	202.7	192.7	182.3	170.0	157.9	145.9	133.9	119.9	106.4	93.9
-85°	188.3	179.7	171.1	162.5	152.0	141.7	132.1	122.3	110.8	99.6	88.6
-87.5°	167.5	160.8	154.0	147.2	138.6	129.9	121.2	112.5	102.6	92.8	83.2
-90°	2.7	2.7	2.7	2.7	2.9	3.2	3.4	3.6	3.6	3.6	3.6



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	69.4	57.8	46.2	34.7	23.1	14.2	5.3
87.5°	3.6	3.7	3.7	3.8	3.8	4.6	5.3
85°	3.6	3.8	3.9	3.9	3.9	4.8	5.3
82.5°	3.6	3.9	4.0	4.1	4.1	4.9	5.3
80°	3.7	4.0	4.2	4.3	4.2	5.1	5.3
77.5°	4.2	4.3	4.4	4.4	4.4	5.2	5.3
75°	4.7	4.9	4.6	4.6	4.6	5.4	5.3
72.5°	5.2	5.5	5.3	4.8	4.8	5.6	5.3
70°	5.9	6.2	5.9	5.1	5.0	5.8	5.3
67.5°	7.1	6.9	6.6	5.7	5.2	5.9	5.3
65°	8.3	7.8	7.3	6.2	5.5	6.1	5.3
62.5°	9.6	9.2	8.0	6.8	5.7	6.3	5.3
60°	11.0	10.5	8.7	7.5	6.0	6.5	5.3
57.5°	13.2	11.9	9.9	8.1	6.6	6.6	5.3
55°	15.6	13.4	11.2	8.7	7.2	6.8	5.3
52.5°	18.1	15.0	12.5	9.3	7.9	7.0	5.3
50°	20.8	17.4	13.8	9.9	8.6	7.2	5.3
47.5°	23.7	19.8	15.2	10.6	9.2	7.4	5.3
45°	27.4	22.3	16.5	11.7	10.0	7.6	5.3
42.5°	31.3	24.9	17.9	12.7	10.7	7.8	5.3
40°	35.4	27.5	19.6	14.1	11.4	8.0	5.3
37.5°	39.6	30.1	21.7	15.6	12.2	8.2	5.3
35°	43.9	33.3	23.7	17.2	12.9	8.4	5.3
32.5°	48.9	36.8	25.8	18.9	13.7	8.6	5.3
30°	55.2	40.2	27.8	20.5	14.5	8.7	5.3
27.5°	61.4	43.7	30.7	22.2	15.3	8.9	5.3
25°	67.6	47.2	33.6	23.9	16.1	9.1	5.3
22.5°	73.7	50.8	36.5	25.6	16.9	9.3	5.3
20°	79.6	55.1	39.4	27.2	17.6	9.5	5.3
17.5°	85.6	59.1	42.3	28.9	18.4	9.7	5.3
15°	91.3	63.1	45.0	30.5	19.2	9.8	5.3
12.5°	96.8	66.8	47.7	32.1	19.9	10.0	5.3
10°	101.9	70.4	50.3	33.6	20.6	10.2	5.3
7.5°	106.6	73.8	52.8	35.1	21.3	10.3	5.3
5°	110.9	77.0	55.2	36.6	21.9	10.4	5.3
2.5°	114.9	80.0	57.5	37.9	22.5	10.6	5.3
0°	118.4	82.8	59.6	39.2	23.1	10.7	5.3
-2.5°	122.6	86.2	62.3	41.3	24.4	11.2	5.3
-5°	126.4	89.4	64.8	43.2	25.6	11.7	5.3
-7.5°	129.7	92.4	67.1	45.1	26.7	12.2	5.3
-10°	132.6	95.1	69.3	46.8	27.8	12.7	5.3
-12.5°	135.0	97.5	71.3	48.4	28.8	13.2	5.3
-15°	136.9	99.7	73.2	49.9	29.8	13.6	5.3
-17.5°	138.4	101.6	74.8	51.3	30.7	14.0	5.3
-20°	139.6	103.2	76.3	52.5	31.5	14.4	5.3



REPORT NUMBER: P731333 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-1S-VHE

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	140.8	104.6	77.6	53.6	32.2	14.8	5.3
-25°	141.4	105.9	78.7	54.6	32.8	15.1	5.3
-27.5°	141.4	106.9	79.7	55.4	33.3	15.5	5.3
-30°	140.8	107.7	80.5	56.0	33.8	15.8	5.3
-32.5°	139.5	108.1	81.1	56.5	34.1	16.0	5.3
-35°	139.1	108.1	81.5	56.8	34.4	16.3	5.3
-37.5°	138.8	108.0	81.7	57.0	34.5	16.5	5.3
-40°	138.1	108.0	81.6	57.0	34.6	16.7	5.3
-42.5°	136.9	107.7	81.4	56.9	34.5	16.8	5.3
-45°	135.3	107.0	81.0	56.6	34.4	17.0	5.3
-47.5°	133.3	106.1	80.3	56.1	34.2	17.1	5.3
-50°	131.6	104.8	79.4	55.5	33.8	17.1	5.3
-52.5°	129.6	103.3	78.3	54.8	33.4	17.1	5.3
-55°	127.3	101.5	77.0	54.0	32.8	17.1	5.3
-57.5°	124.6	99.4	75.4	52.9	32.2	17.1	5.3
-60°	121.6	97.1	73.7	51.8	31.5	17.1	5.3
-62.5°	118.2	94.4	71.8	50.5	31.2	17.0	5.3
-65°	114.5	91.5	69.7	49.0	30.7	16.8	5.3
-67.5°	110.5	88.4	67.4	47.4	30.3	16.7	5.3
-70°	106.1	85.0	64.9	45.7	29.7	16.5	5.3
-72.5°	101.5	81.4	62.2	44.6	29.1	16.3	5.3
-75°	96.5	77.6	59.4	43.4	28.4	16.1	5.3
-77.5°	91.3	73.6	57.3	42.2	27.6	15.8	5.3
-80°	85.9	70.3	55.4	40.8	26.8	15.5	5.3
-82.5°	81.9	67.4	53.2	39.4	26.0	15.2	5.3
-85°	77.9	64.3	51.0	37.9	25.0	14.9	5.3
-87.5°	73.7	61.1	48.7	36.3	24.1	14.6	5.3
-90°	3.6	3.6	3.6	3.6	3.6	4.5	5.3

(END OF 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

