

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: P731413 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-70-3S-VHE**

Issue Date: 11/16/2023

Test Information

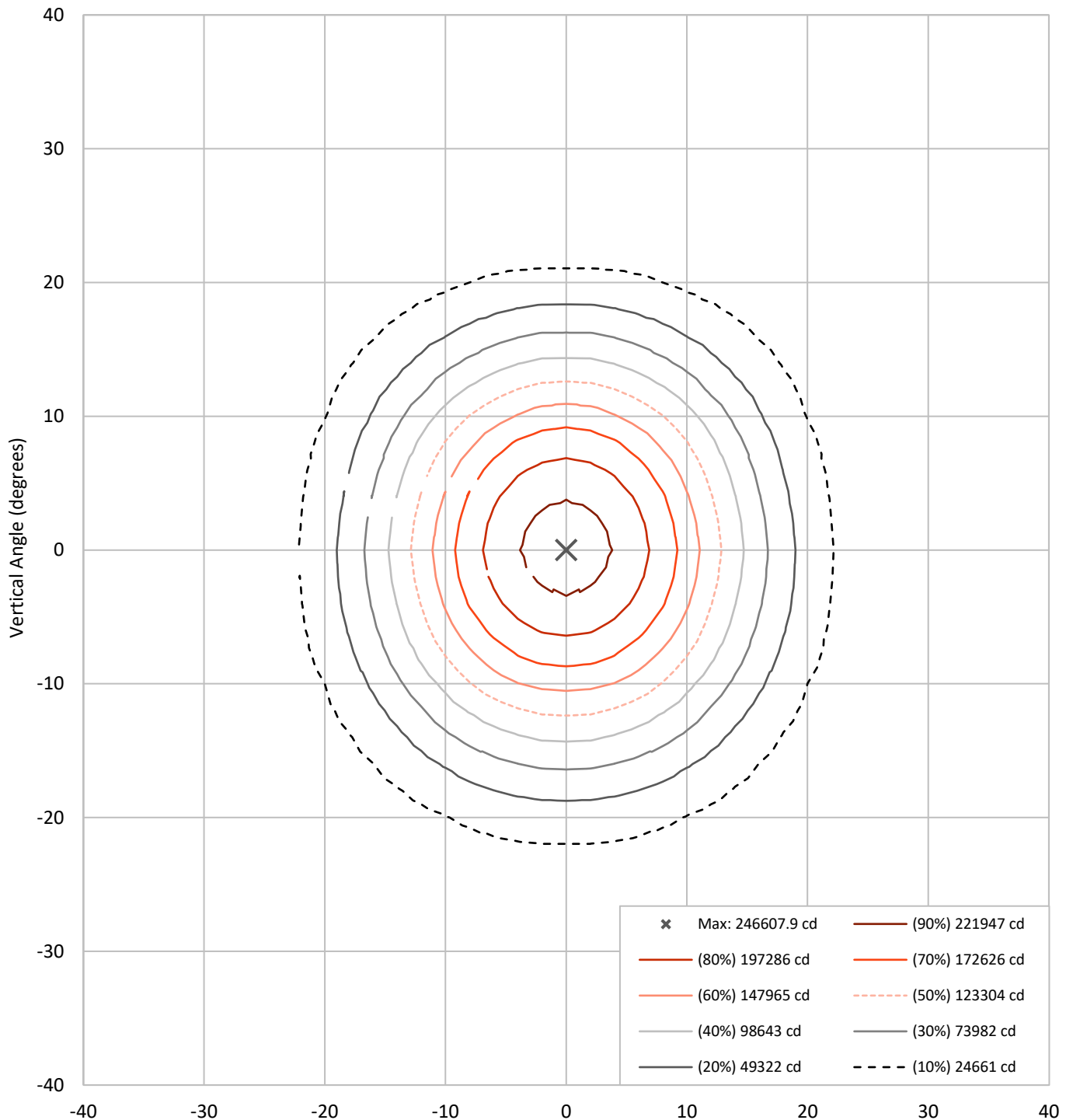
Test Method: LM-79-08
Report Number: P731413 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-57-70-3S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 3S 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:	55405.5 lumens	Max Intensity:	246607.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	160.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	25.7°H x 24.9°V	Field Angle (10%):	44.2°H x 43°V
Beam Lumens:	26509.2 lumens	Field Lumens:	46450.6 lumens
Beam Efficiency:	47.8%	Field Efficiency:	83.8%
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





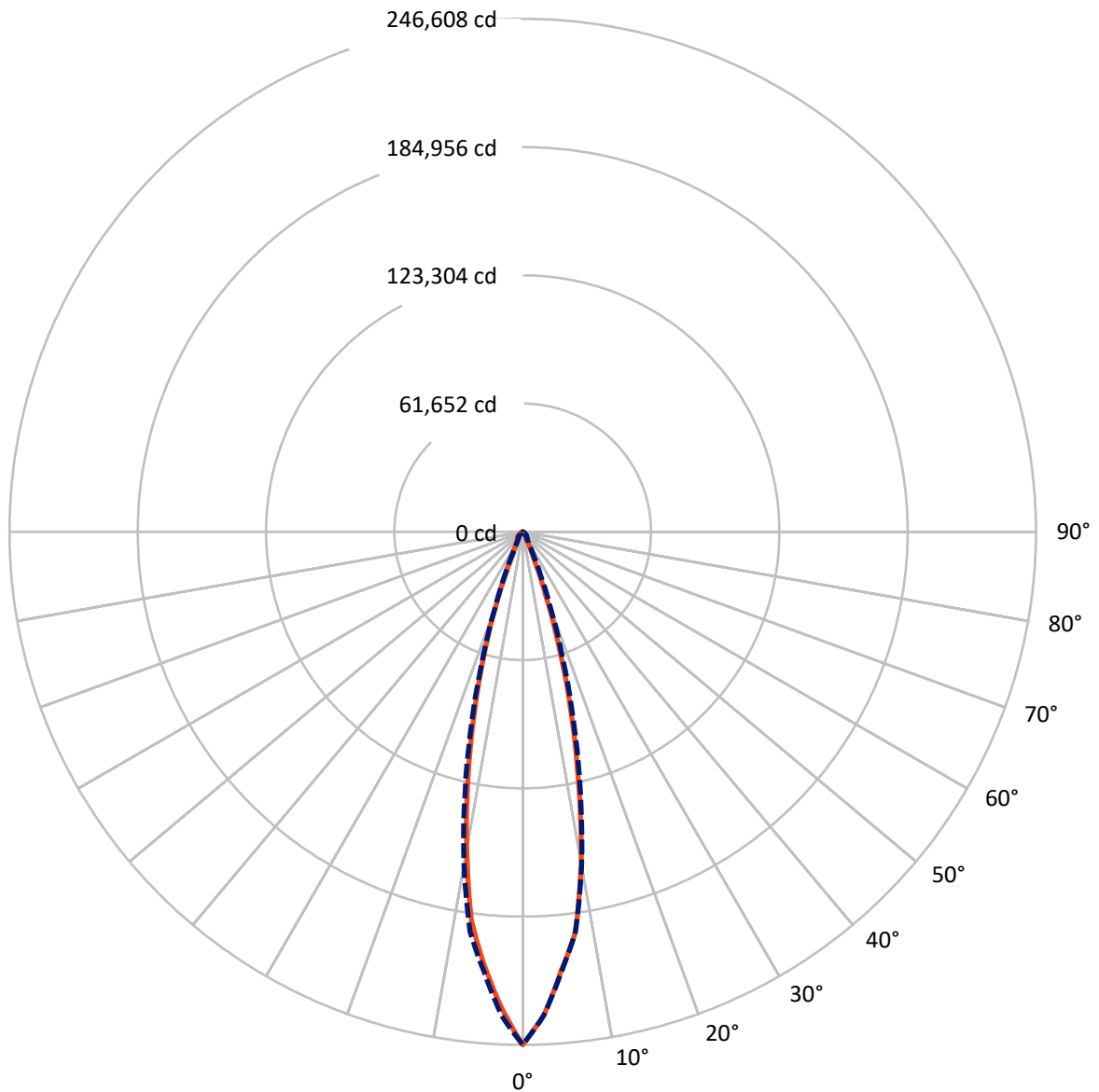
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Lumen Table

90	0.1		0.4		0.9		1.3		1.6		1.3		0.9		0.4		0.1	
80	0.1		0.4		0.9		1.3		1.6		1.3		0.9		0.4		0.1	
70	0.2	0.1	0.1	0.4	0.5	0.4	0.3	0.3	0.3	0.3	0.4	0.5	0.4	0.1	0.1	0.2		
60		0.3	0.5	0.7	0.6	0.6	0.8	0.9	0.9	0.8	0.6	0.6	0.7	0.5	0.3			
50	0.5	0.8	1.9	3.9	7.2	12.2	17.4	19.7	19.7	17.4	12.2	7.2	3.9	1.9	0.8	0.5		
40		1.9	5.9	12.1	22.8	37.9	45.8	53.7	53.7	45.8	37.9	22.8	12.1	5.9	1.9			
30	1.3	3.2	9.9	21.7	48.6	62.5	135.0	295.2	295.2	135.0	62.5	48.6	21.7	9.9	3.2	1.3		
20		4.2	13.0	35.3	69.7	168.6	1015.5	2455.1	2455.1	1015.5	168.6	69.7	35.3	13.0	4.2			
10	1.9	5.1	15.1	44.9	84.5	374.2	2466.5	5617.9	5617.9	2466.5	374.2	84.5	44.9	15.1	5.1	1.9		
0		5.7	16.6	47.5	93.6	385.7	2481.4	5559.6	5559.6	2481.4	385.7	93.6	47.5	16.6	5.7			
-10	2.0	5.7	17.1	45.9	93.2	206.8	1058.9	2478.0	2478.0	1058.9	206.8	93.2	45.9	17.1	5.7	2.0		
-20		5.3	16.3	36.3	83.9	126.7	219.5	417.4	417.4	219.5	126.7	83.9	36.3	16.3	5.3			
-30	1.7	4.5	14.0	29.0	58.0	101.3	125.1	138.8	138.8	125.1	101.3	58.0	29.0	14.0	4.5	1.7		
-40		3.5	10.7	22.5	36.7	54.1	79.4	98.9	98.9	79.4	54.1	36.7	22.5	10.7	3.5			
-50	1.4	2.3	6.9	14.7	24.7	33.6	40.8	45.3	45.3	40.8	33.6	24.7	14.7	6.9	2.3	1.4		
-60		1.7	3.7	7.6	12.9	17.7	22.4	25.2	25.2	22.4	17.7	12.9	7.6	3.7	1.7			
-70	1.0	1.7	3.7	7.6	12.9	17.7	22.4	25.2	25.2	22.4	17.7	12.9	7.6	3.7	1.7	1.0		
-80		1.0	6.1	14.0	22.9	28.1	22.9	14.0	6.1	1.0								
-90	1.0		6.1		14.0		22.9		28.1		22.9		14.0		6.1		1.0	

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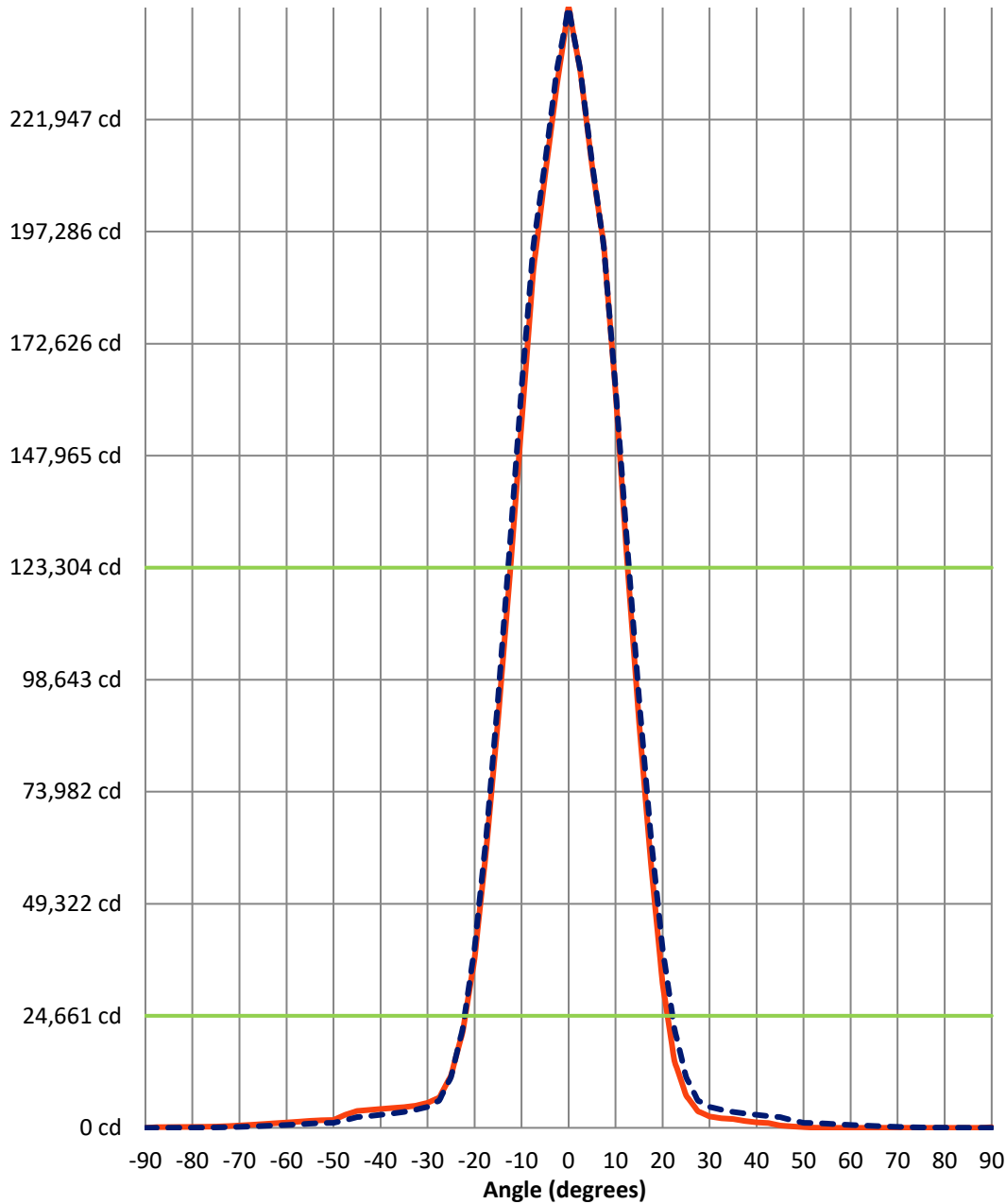
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 25.7°
 V Angle: 24.9°
 Lumens: 26509.2
 Efficiency: 47.8%

Field:
 H Angle: 44.2°
 V Angle: 43°
 Lumens: 46450.6
 Efficiency: 83.8%

Spill:
 Lumens: 8954.8
 Efficiency: 16.2%

— 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°	2.0	8.2	14.5	23.4	32.3	39.9	47.5	53.2	58.8	63.4	68.0
87.5°	2.0	2.2	2.1	2.2	2.2	2.2	2.2	1.9	1.7	1.7	1.6
85°	2.0	2.3	2.2	2.3	2.5	2.4	2.3	2.2	2.2	2.1	1.9
82.5°	2.0	2.5	2.3	2.5	2.7	2.6	2.5	2.5	2.6	2.4	2.2
80°	2.0	2.6	2.5	2.7	2.9	2.8	2.7	2.8	2.9	2.7	2.5
77.5°	2.0	2.8	2.6	2.8	3.1	3.1	3.1	3.1	3.1	3.0	2.7
75°	2.0	3.0	2.8	3.0	3.4	3.5	3.5	3.5	3.4	3.3	3.1
72.5°	2.0	3.1	2.9	3.2	3.7	3.9	3.9	3.9	4.0	3.8	3.5
70°	2.0	3.3	3.1	3.4	4.1	4.3	4.3	4.6	4.5	4.3	4.4
67.5°	2.0	3.4	3.3	3.8	4.5	4.7	5.1	5.3	5.2	5.5	5.5
65°	2.0	3.6	3.5	4.2	4.9	5.3	6.0	6.0	6.6	6.7	6.7
62.5°	2.0	3.8	3.7	4.6	5.4	6.2	6.8	7.3	8.1	8.1	8.1
60°	2.0	4.0	3.9	5.0	5.8	7.1	7.8	8.9	9.6	9.8	9.7
57.5°	2.0	4.1	4.4	5.4	6.7	8.1	9.3	10.5	11.7	11.9	13.1
55°	2.0	4.3	4.8	5.8	7.6	9.0	10.8	12.2	14.1	14.9	17.8
52.5°	2.0	4.5	5.3	6.3	8.5	10.1	12.4	14.6	16.7	20.5	22.8
50°	2.0	4.7	5.8	6.7	9.5	11.6	14.0	17.3	20.4	26.6	32.0
47.5°	2.0	4.8	6.3	7.2	10.5	13.1	15.7	20.0	26.6	33.2	43.1
45°	2.0	5.0	6.8	8.0	11.5	14.7	18.2	22.8	33.0	44.5	55.4
42.5°	2.0	5.2	7.3	8.8	12.5	16.4	20.7	27.5	39.8	56.8	74.2
40°	2.0	5.4	7.8	9.7	13.7	18.1	23.4	33.6	48.3	69.8	95.5
37.5°	2.0	5.6	8.3	10.8	15.0	19.8	26.4	39.8	60.3	85.4	118.2
35°	2.0	5.8	8.9	11.9	16.3	22.0	29.4	46.1	72.7	105.4	143.7
32.5°	2.0	5.9	9.4	13.0	17.7	24.4	33.3	52.8	85.6	125.5	168.9
30°	2.0	6.1	9.9	14.1	19.0	26.9	38.8	60.5	98.9	145.7	192.5
27.5°	2.0	6.3	10.5	15.2	20.7	29.3	44.2	70.5	112.4	165.8	214.5
25°	2.0	6.5	11.0	16.3	22.4	31.7	49.5	80.1	126.0	184.7	234.9
22.5°	2.0	6.6	11.6	17.3	24.1	34.1	54.6	89.0	138.5	197.5	257.2
20°	2.0	6.8	12.1	18.4	25.8	36.6	59.7	97.4	149.8	209.3	275.2
17.5°	2.0	7.0	12.6	19.4	27.4	39.0	64.3	105.1	159.9	220.3	292.0
15°	2.0	7.1	13.1	20.4	29.0	41.3	68.6	112.0	168.9	230.2	308.0
12.5°	2.0	7.3	13.6	21.4	30.5	43.4	72.6	118.2	177.9	239.1	323.0
10°	2.0	7.4	14.1	22.3	31.9	45.5	76.2	123.8	187.3	252.3	339.2
7.5°	2.0	7.6	14.6	23.3	33.3	47.4	79.5	128.7	195.8	265.6	359.6
5°	2.0	7.7	15.0	24.1	34.6	49.1	82.4	132.9	203.5	278.1	378.4
2.5°	2.0	7.8	15.4	24.9	35.8	50.7	85.0	136.5	210.3	289.6	395.5
0°	2.0	7.9	15.8	25.7	37.0	52.2	87.1	139.3	215.9	299.7	410.6
-2.5°	2.0	8.2	16.5	26.8	38.6	54.4	89.9	144.0	222.3	306.6	417.6
-5°	2.0	8.5	17.2	27.9	40.2	56.4	92.3	147.9	227.3	312.0	422.4
-7.5°	2.0	8.8	17.8	29.0	41.6	58.3	94.2	151.0	231.0	315.9	425.0
-10°	2.0	9.1	18.4	29.9	43.0	60.0	95.7	153.1	233.4	318.2	425.3
-12.5°	2.0	9.4	19.0	30.8	44.2	61.5	96.8	154.3	234.2	318.9	424.4
-15°	2.0	9.7	19.5	31.6	45.3	62.8	97.3	154.4	232.8	316.9	421.1
-17.5°	2.0	9.9	20.0	32.3	46.3	64.0	97.4	153.0	229.0	313.2	414.9
-20°	2.0	10.1	20.4	33.0	47.2	64.9	97.0	150.4	223.9	307.6	405.6



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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°	2.0	10.3	20.8	33.6	48.0	65.6	96.3	146.9	217.4	300.3	393.4
-25°	2.0	10.5	21.2	34.1	48.6	66.3	95.0	142.5	209.6	291.1	380.7
-27.5°	2.0	10.7	21.5	34.5	49.1	66.8	93.2	137.1	200.4	282.8	371.5
-30°	2.0	10.8	21.8	34.8	49.5	67.2	91.0	130.9	193.0	273.7	360.5
-32.5°	2.0	10.9	22.0	35.0	50.0	67.3	88.2	126.8	186.6	263.0	347.3
-35°	2.0	11.1	22.1	35.1	50.4	67.3	87.2	123.3	178.6	250.8	332.0
-37.5°	2.0	11.1	22.3	35.1	50.6	67.2	86.9	119.3	168.9	237.2	315.8
-40°	2.0	11.2	22.3	35.1	50.7	67.4	86.4	114.5	157.6	224.0	297.6
-42.5°	2.0	11.2	22.3	35.0	50.7	67.4	85.6	108.9	149.1	208.1	276.4
-45°	2.0	11.3	22.3	35.0	50.7	67.2	84.6	104.7	141.7	190.4	253.2
-47.5°	2.0	11.3	22.2	34.8	50.5	66.8	83.2	103.0	133.3	171.4	231.6
-50°	2.0	11.2	22.1	34.7	50.1	66.3	82.3	101.0	123.3	160.1	208.2
-52.5°	2.0	11.2	21.9	34.6	49.6	65.6	81.2	98.6	117.9	147.8	184.1
-55°	2.0	11.1	21.7	34.4	49.0	64.7	80.0	95.9	114.3	134.8	168.7
-57.5°	2.0	11.1	21.4	34.0	48.2	63.5	78.5	94.1	110.3	128.3	152.6
-60°	2.0	10.9	21.1	33.6	47.3	62.2	76.8	91.8	106.4	123.4	139.3
-62.5°	2.0	10.8	20.7	33.2	46.6	60.7	75.0	89.2	103.2	118.0	132.6
-65°	2.0	10.7	20.4	32.6	45.8	59.1	73.0	86.4	99.7	113.2	125.6
-67.5°	2.0	10.5	20.0	31.9	44.8	57.5	70.8	83.6	96.0	108.4	119.7
-70°	2.0	10.3	19.5	31.2	43.8	55.9	68.5	80.6	92.3	103.4	114.2
-72.5°	2.0	10.1	19.0	30.5	42.6	54.1	66.1	77.4	88.5	98.6	108.5
-75°	2.0	9.9	18.5	29.6	41.3	52.2	63.5	73.9	84.4	93.5	102.5
-77.5°	2.0	9.7	17.9	28.8	40.0	50.2	60.7	70.3	80.0	88.3	96.3
-80°	2.0	9.4	17.3	27.8	38.7	48.2	57.8	66.5	75.4	82.8	90.0
-82.5°	2.0	9.1	16.6	26.8	37.2	46.2	55.3	62.9	70.6	77.2	83.7
-85°	2.0	8.9	15.9	25.7	35.6	44.2	52.8	59.7	66.7	72.3	77.9
-87.5°	2.0	8.6	15.2	24.6	34.0	42.1	50.2	56.5	62.8	67.9	73.0
-90°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.7	1.3	1.3	1.3



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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°	71.7	75.3	78.6	81.9	84.9	87.8	91.8	95.7	98.7	101.7	104.7
87.5°	1.6	1.6	1.7	1.7	1.5	1.3	1.3	1.3	1.2	1.2	1.2
85°	1.9	2.0	2.0	2.0	1.7	1.5	1.5	1.6	1.6	1.7	1.5
82.5°	2.2	2.3	2.2	2.0	1.9	2.0	2.0	2.0	2.0	2.0	1.8
80°	2.5	2.6	2.4	2.2	2.3	2.3	2.2	2.0	2.0	2.0	2.1
77.5°	2.7	2.6	2.5	2.5	2.6	2.7	2.7	2.7	2.7	2.6	2.6
75°	2.9	2.7	2.8	2.7	2.7	3.1	3.3	3.3	3.2	3.1	3.1
72.5°	3.5	3.5	3.3	2.9	3.0	3.3	3.3	3.3	4.1	5.5	6.6
70°	4.3	4.3	4.1	3.8	3.7	3.9	5.0	6.8	8.9	10.7	12.5
67.5°	5.3	5.1	4.8	4.8	5.5	6.6	8.0	12.6	17.5	19.2	19.4
65°	6.2	6.1	6.1	6.9	7.8	11.1	15.4	21.0	25.7	25.3	23.4
62.5°	7.3	8.2	8.2	9.8	13.1	17.1	22.0	26.8	31.0	29.0	24.2
60°	10.5	11.1	12.6	15.6	19.0	22.9	28.0	29.6	30.6	29.9	23.5
57.5°	14.4	16.1	19.3	22.0	26.0	27.8	28.2	27.9	29.7	28.5	22.0
55°	20.2	23.1	27.3	30.2	32.5	29.0	28.7	30.5	30.3	27.7	21.4
52.5°	28.8	31.9	37.7	39.8	38.0	35.3	34.3	36.0	34.7	31.2	27.0
50°	38.2	45.6	49.4	51.2	47.8	47.4	44.0	46.2	48.1	46.4	52.2
47.5°	52.4	61.4	64.3	67.4	65.7	71.8	68.7	80.0	80.9	114.0	123.9
45°	69.7	81.7	85.1	93.0	101.8	112.3	130.6	135.4	190.0	223.3	262.6
42.5°	90.4	105.6	119.2	123.8	163.0	184.3	211.7	262.4	313.2	355.0	384.3
40°	117.2	132.6	161.4	195.8	237.5	273.7	326.0	384.7	433.1	465.3	480.3
37.5°	146.6	176.7	214.5	270.1	320.9	366.9	433.6	492.5	535.4	565.1	568.9
35°	178.2	221.0	282.8	339.2	391.6	453.9	520.2	587.8	623.0	635.8	690.4
32.5°	215.1	264.1	337.3	398.6	457.6	528.2	598.7	657.1	688.2	724.3	909.0
30°	250.0	309.4	382.3	447.3	520.4	600.8	668.2	723.3	744.8	934.5	1233.2
27.5°	277.8	348.7	421.8	500.3	584.1	676.1	744.1	779.9	902.9	1183.7	1615.5
25°	303.7	380.0	461.7	559.8	655.2	746.3	815.4	838.4	1094.2	1570.3	1892.1
22.5°	329.1	410.5	505.8	622.7	720.4	805.5	863.3	1001.9	1368.5	1971.4	2138.5
20°	354.4	446.7	553.7	670.3	778.0	857.4	901.9	1174.3	1701.6	2125.5	2313.6
17.5°	378.9	483.1	597.6	710.3	818.9	899.4	956.8	1319.8	1965.4	2263.8	2448.9
15°	402.8	514.2	631.5	747.9	858.7	936.2	1092.0	1533.1	2129.3	2431.2	2626.7
12.5°	425.6	540.7	656.5	780.4	897.1	971.9	1232.2	1791.7	2300.3	2596.0	2807.3
10°	447.2	563.1	678.2	810.2	932.9	1003.0	1363.9	2033.3	2456.8	2713.3	2904.8
7.5°	468.9	583.2	697.9	837.0	966.6	1031.4	1475.2	2165.5	2518.2	2790.8	2973.6
5°	488.0	601.8	721.2	870.2	999.3	1057.5	1569.2	2254.4	2537.7	2829.5	3023.2
2.5°	504.4	617.3	741.5	901.1	1028.7	1081.1	1633.2	2322.2	2561.2	2857.1	3084.7
0°	518.2	629.8	758.6	927.6	1053.7	1102.5	1675.6	2358.8	2576.0	2869.2	3153.0
-2.5°	528.3	646.4	785.9	950.1	1074.2	1124.9	1688.9	2374.5	2597.6	2935.8	3306.3
-5°	535.8	659.8	808.7	968.0	1090.8	1145.6	1679.4	2359.9	2623.5	2997.3	3403.8
-7.5°	540.4	669.4	826.3	981.3	1104.7	1168.8	1650.7	2343.1	2704.4	3074.4	3452.8
-10°	542.6	674.3	829.0	986.3	1115.9	1192.1	1601.8	2286.2	2762.9	3103.9	3456.8
-12.5°	544.5	675.4	825.7	985.4	1122.8	1213.4	1540.2	2217.9	2816.7	3115.0	3431.8
-15°	542.9	673.3	818.4	979.3	1131.7	1240.3	1461.5	2091.2	2840.8	3103.4	3384.8
-17.5°	537.4	668.1	808.4	971.4	1137.3	1265.4	1358.3	1896.0	2711.6	3067.6	3349.0
-20°	528.1	658.8	794.0	956.3	1134.2	1276.2	1355.7	1753.1	2441.0	2997.2	3295.8



REPORT NUMBER: P731413 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	515.7	645.5	776.8	936.2	1116.4	1271.7	1374.6	1595.6	2134.4	2894.0	3215.6
-25°	501.2	628.7	759.2	914.5	1091.5	1263.2	1385.0	1450.6	1880.9	2544.6	3088.2
-27.5°	484.5	608.7	739.0	885.6	1059.0	1237.8	1368.1	1454.6	1674.9	2145.0	2894.7
-30°	464.8	585.6	713.0	852.1	1019.1	1189.8	1339.2	1449.3	1513.7	1872.3	2475.0
-32.5°	442.5	559.0	683.4	819.9	974.1	1138.2	1296.1	1415.2	1503.5	1620.9	2080.0
-35°	421.1	531.8	650.6	783.8	925.9	1080.0	1228.2	1368.8	1479.4	1555.1	1741.7
-37.5°	402.3	502.1	616.3	744.5	881.3	1013.2	1154.8	1299.7	1426.5	1531.1	1597.2
-40°	380.7	470.1	580.9	702.1	824.0	945.7	1078.0	1216.3	1356.1	1470.9	1571.7
-42.5°	356.6	443.2	542.4	652.6	764.7	879.7	997.4	1128.5	1260.2	1391.1	1497.3
-45°	329.9	413.1	501.3	600.4	702.0	810.5	922.1	1035.4	1159.9	1283.5	1399.7
-47.5°	299.7	379.7	463.8	544.8	639.1	738.6	842.8	949.6	1056.2	1169.7	1282.0
-50°	268.3	342.6	420.2	494.3	574.9	665.5	761.1	860.6	961.2	1056.4	1155.2
-52.5°	239.2	302.1	373.0	444.2	514.9	592.0	678.4	768.2	861.3	954.0	1037.5
-55°	207.8	264.3	323.3	390.4	458.0	524.7	594.9	676.1	755.2	840.5	922.5
-57.5°	184.3	225.9	277.5	333.3	396.7	461.1	523.3	584.5	653.4	724.7	797.1
-60°	165.6	194.7	234.2	281.8	331.7	391.1	452.2	508.7	560.8	613.9	679.4
-62.5°	148.2	172.2	199.6	232.7	276.1	320.3	372.9	426.8	477.4	525.9	574.7
-65°	139.8	152.3	173.1	197.8	222.6	260.3	300.6	341.8	388.2	432.7	478.1
-67.5°	130.9	142.8	154.3	167.8	190.1	212.1	233.9	270.2	306.5	339.2	372.2
-70°	124.1	133.4	143.8	153.8	163.9	176.8	196.6	217.0	236.6	258.4	286.1
-72.5°	117.4	125.8	134.1	142.3	151.4	160.7	170.1	180.1	194.5	211.3	226.4
-75°	110.5	117.8	125.2	132.5	140.1	147.7	155.7	164.5	173.5	182.5	190.5
-77.5°	103.6	110.4	116.7	122.8	129.3	136.2	143.3	150.5	157.8	165.2	171.5
-80°	96.5	102.9	108.4	113.8	119.3	125.0	131.1	137.3	143.5	149.7	155.2
-82.5°	89.2	94.7	99.6	104.5	109.2	113.9	119.2	124.6	130.0	135.4	140.0
-85°	82.2	86.4	90.6	94.8	99.0	103.1	107.8	112.6	117.1	121.6	125.5
-87.5°	77.0	80.9	84.4	87.9	91.2	94.6	98.6	102.7	106.2	109.7	113.0
-90°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.0	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	107.6	109.6	111.6	113.3	114.9	117.2	119.5	122.8	126.1	130.1	134.0
87.5°	1.2	1.2	1.2	1.0	0.7	0.7	0.7	0.7	0.7	1.0	1.3
85°	1.3	1.3	1.3	1.5	1.7	1.8	1.8	1.9	1.9	2.0	2.0
82.5°	1.6	1.7	1.7	1.9	2.0	2.0	2.0	2.0	2.0	2.3	2.6
80°	2.2	2.2	2.3	2.3	2.4	2.2	2.0	2.0	2.0	2.3	2.6
77.5°	2.7	2.7	2.6	2.5	2.3	2.1	2.0	2.0	2.0	2.0	2.0
75°	3.2	3.3	3.5	3.7	4.0	4.1	3.8	3.9	4.1	4.0	3.9
72.5°	7.3	7.5	7.5	8.3	9.2	9.5	9.7	10.3	11.1	12.1	13.2
70°	14.2	15.6	16.2	16.3	15.7	15.2	14.9	14.8	15.1	15.8	16.7
67.5°	20.4	21.0	20.8	20.5	19.3	17.8	16.1	15.2	15.6	16.4	17.4
65°	23.1	21.3	20.0	19.4	18.3	16.5	14.0	12.3	11.9	11.6	11.6
62.5°	20.8	17.5	15.9	15.1	13.5	11.9	9.6	7.8	7.2	6.7	6.6
60°	18.1	14.0	11.6	10.4	8.7	6.7	5.5	4.2	3.8	3.5	3.6
57.5°	15.7	11.7	8.8	8.2	6.7	5.2	4.2	3.1	2.8	2.6	2.7
55°	16.2	14.2	11.9	10.6	8.8	8.0	7.1	6.4	5.8	5.9	6.4
52.5°	22.9	24.6	21.7	20.9	26.0	26.1	21.5	28.5	32.8	36.1	37.0
50°	59.1	58.7	78.0	74.8	92.6	107.2	107.7	116.6	133.5	145.1	151.3
47.5°	157.0	174.6	197.1	220.7	239.2	262.3	285.6	303.1	307.4	307.8	310.9
45°	295.6	320.7	354.6	379.4	414.4	435.9	453.8	470.0	507.4	541.8	582.0
42.5°	412.7	440.2	475.3	525.8	562.6	660.9	811.2	848.1	853.5	884.1	928.6
40°	505.2	541.3	619.2	729.7	965.3	1176.5	1214.6	1246.3	1260.3	1243.4	1273.6
37.5°	617.1	701.7	877.1	1179.5	1291.1	1348.6	1389.1	1413.4	1442.9	1470.2	1485.0
35°	803.1	1038.5	1192.3	1353.8	1426.8	1456.0	1485.7	1515.6	1538.8	1569.0	1593.1
32.5°	1184.7	1446.8	1462.2	1502.1	1540.2	1578.1	1605.8	1634.3	1659.1	1698.2	1780.3
30°	1569.0	1626.2	1640.2	1643.8	1678.6	1724.0	1748.1	1805.6	1883.3	1972.5	2162.1
27.5°	1773.7	1813.0	1821.2	1825.2	1841.3	1895.1	1994.7	2073.3	2259.8	2486.1	2973.6
25°	2022.9	2050.9	2080.5	2079.2	2103.8	2199.1	2393.8	2559.7	3189.9	3779.5	5050.0
22.5°	2260.6	2345.2	2387.3	2443.8	2527.3	2700.5	3042.2	4002.1	5607.0	7655.2	10204.9
20°	2425.8	2539.7	2653.0	2810.6	3012.2	3371.7	4439.3	7311.7	10742.0	15719.5	19894.4
17.5°	2592.5	2721.1	2921.6	3164.6	3503.3	4710.3	7840.1	12717.4	19761.8	28598.5	36351.8
15°	2809.8	2962.4	3230.9	3577.9	4524.2	7100.7	12321.7	21196.3	31905.2	44327.1	57357.6
12.5°	2957.8	3168.0	3487.2	3935.4	5488.6	10314.1	18720.5	30886.6	45625.7	61277.6	82048.4
10°	3067.2	3318.6	3752.1	4681.3	7497.7	13861.1	23962.9	39146.0	59352.9	83207.5	106954.8
7.5°	3159.0	3497.5	4041.8	5212.7	9231.1	17253.8	30130.5	48584.9	72493.0	101236.7	128852.7
5°	3241.6	3690.3	4320.7	5785.5	10784.3	19710.2	34232.1	55634.0	83319.8	114712.7	145202.7
2.5°	3350.7	3870.8	4501.5	5943.1	11406.0	21071.3	37482.0	61326.0	91050.0	124073.2	157246.4
0°	3502.3	3988.2	4612.1	6044.0	11212.6	21924.1	39473.8	64182.6	94437.6	128004.7	162797.9
-2.5°	3621.5	4055.9	4676.5	5962.8	11118.1	21523.0	38574.9	62517.4	91121.1	123556.7	158263.2
-5°	3698.5	4104.4	4704.7	5993.1	10879.5	19990.1	35919.9	58154.5	84367.2	113646.6	145739.7
-7.5°	3743.6	4122.1	4675.4	5802.0	9795.9	17901.8	31194.0	50112.7	73627.6	100721.1	127243.9
-10°	3770.6	4110.6	4614.2	5531.7	8239.7	14548.4	24627.0	40661.0	61035.3	82867.0	104561.7
-12.5°	3780.7	4086.3	4527.9	5144.5	6606.3	11389.6	19604.0	30983.4	46107.4	64016.0	83132.6
-15°	3760.9	4051.0	4444.4	4978.3	5950.9	8538.2	13679.3	21418.6	32691.6	46364.7	60217.6
-17.5°	3687.0	4014.6	4320.9	4730.8	5303.2	6523.4	9652.4	14620.0	21494.5	30532.3	38524.6
-20°	3589.1	3945.8	4208.1	4570.4	5019.8	5578.3	6581.8	9613.5	13468.2	18700.5	23916.9



REPORT NUMBER: P731413 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-VHE

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3502.0	3828.3	4158.1	4406.7	4758.8	5125.9	5579.0	6446.3	8383.2	10995.5	14302.3
-25°	3421.6	3720.3	4058.7	4327.6	4526.2	4785.7	5069.6	5373.4	6031.4	6648.2	8243.6
-27.5°	3308.4	3617.9	3911.3	4198.4	4389.8	4507.5	4701.0	4889.8	5165.3	5410.4	5878.9
-30°	3176.8	3479.6	3758.8	4019.6	4215.6	4339.5	4435.4	4565.2	4711.1	4859.4	5060.7
-32.5°	2707.6	3317.0	3577.0	3812.4	4014.6	4160.2	4261.8	4347.1	4431.2	4526.2	4632.3
-35°	2193.5	2795.5	3382.0	3565.6	3756.7	3949.5	4100.1	4180.5	4253.9	4320.3	4385.2
-37.5°	1783.4	2208.1	2734.5	3234.9	3467.1	3661.8	3842.8	3983.4	4086.1	4148.4	4206.8
-40°	1622.9	1730.5	2135.4	2547.4	2943.6	3303.3	3487.4	3695.2	3864.1	3955.7	4019.2
-42.5°	1584.5	1634.0	1671.8	1932.8	2248.0	2551.3	2886.9	3220.0	3481.5	3655.8	3785.4
-45°	1500.5	1571.6	1628.0	1651.3	1665.6	1886.7	2146.6	2401.0	2694.6	2997.9	3273.2
-47.5°	1381.4	1473.9	1537.5	1587.4	1617.2	1626.6	1644.9	1701.9	1915.0	2139.2	2352.6
-50°	1248.6	1333.3	1409.6	1479.0	1520.2	1553.7	1585.7	1616.4	1642.4	1675.1	1704.7
-52.5°	1114.8	1192.5	1261.1	1321.9	1376.6	1429.4	1480.2	1518.1	1555.1	1594.9	1627.3
-55°	995.7	1058.6	1116.1	1169.5	1218.9	1263.5	1309.3	1358.3	1409.1	1458.7	1497.2
-57.5°	868.3	928.5	983.0	1028.3	1068.0	1101.2	1143.3	1189.3	1237.0	1281.2	1314.7
-60°	739.9	793.1	842.9	886.8	924.5	955.4	994.3	1033.2	1075.8	1113.6	1143.4
-62.5°	617.8	662.7	705.1	743.4	777.6	809.1	843.6	878.3	918.3	953.5	982.1
-65°	516.4	551.2	580.2	607.4	628.6	655.8	689.2	721.2	756.0	786.5	812.0
-67.5°	406.6	438.7	465.3	489.0	507.7	527.1	551.8	577.3	604.3	628.5	649.8
-70°	310.7	332.3	349.5	367.2	386.3	404.9	424.7	446.5	469.1	489.1	506.7
-72.5°	239.7	250.4	260.5	274.9	287.7	300.6	313.1	328.7	345.5	360.7	374.4
-75°	198.0	204.6	212.3	219.2	225.1	232.0	238.9	249.1	260.1	270.5	280.4
-77.5°	177.7	182.5	186.3	189.5	192.2	196.4	200.9	208.4	216.6	225.4	234.2
-80°	160.4	164.0	167.3	170.1	172.6	176.1	179.7	186.3	193.2	200.6	208.0
-82.5°	144.4	147.3	149.9	152.5	154.9	157.9	160.8	166.6	172.5	178.8	185.0
-85°	129.4	131.9	134.1	136.2	138.3	140.8	143.2	148.2	153.3	158.5	163.8
-87.5°	116.3	118.5	120.7	122.5	124.4	126.6	128.8	133.2	137.6	142.0	146.4
-90°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7



REPORT NUMBER: P731413 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	134.4	134.7	135.0	135.3	135.0	134.7	134.4	134.0	130.1	126.1	122.8
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.0	0.7	0.7
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9
82.5°	2.3	2.0	2.3	2.6	2.3	2.0	2.3	2.6	2.3	2.0	2.0
80°	2.3	2.0	2.3	2.6	2.3	2.0	2.3	2.6	2.3	2.0	2.0
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
75°	3.3	2.6	2.3	2.0	2.3	2.6	3.3	3.9	4.0	4.1	3.9
72.5°	13.6	13.6	13.8	13.9	13.8	13.6	13.6	13.2	12.1	11.1	10.3
70°	17.2	17.6	17.8	17.8	17.8	17.6	17.2	16.7	15.8	15.1	14.8
67.5°	17.6	17.3	16.9	16.5	16.9	17.3	17.6	17.4	16.4	15.6	15.2
65°	11.0	10.3	9.1	7.9	9.1	10.3	11.0	11.6	11.6	11.9	12.3
62.5°	6.4	6.1	5.9	5.9	5.9	6.1	6.4	6.6	6.7	7.2	7.8
60°	3.8	4.0	4.0	4.0	4.0	4.0	3.8	3.6	3.5	3.8	4.2
57.5°	2.8	3.2	3.6	4.0	3.6	3.2	2.8	2.7	2.6	2.8	3.1
55°	6.8	7.5	7.8	7.9	7.8	7.5	6.8	6.4	5.9	5.8	6.4
52.5°	35.7	33.9	32.3	31.0	32.3	33.9	35.7	37.0	36.1	32.8	28.5
50°	154.1	158.1	160.0	159.8	160.0	158.1	154.1	151.3	145.1	133.5	116.6
47.5°	317.4	319.6	317.8	312.9	317.8	319.6	317.4	310.9	307.8	307.4	303.1
45°	631.0	603.7	555.1	512.3	555.1	603.7	631.0	582.0	541.8	507.4	470.0
42.5°	987.8	1020.5	1045.1	1056.3	1045.1	1020.5	987.8	928.6	884.1	853.5	848.1
40°	1239.6	1204.6	1197.6	1202.9	1197.6	1204.6	1239.6	1273.6	1243.4	1260.3	1246.3
37.5°	1488.7	1520.5	1544.0	1505.9	1544.0	1520.5	1488.7	1485.0	1470.2	1442.9	1413.4
35°	1649.3	1762.2	1894.8	1935.0	1894.8	1762.2	1649.3	1593.1	1569.0	1538.8	1515.6
32.5°	1917.7	2037.0	2088.7	2101.4	2088.7	2037.0	1917.7	1780.3	1698.2	1659.1	1634.3
30°	2344.9	2464.0	2485.5	2502.8	2485.5	2464.0	2344.9	2162.1	1972.5	1883.3	1805.6
27.5°	3297.1	3563.6	3626.8	3671.3	3626.8	3563.6	3297.1	2973.6	2486.1	2259.8	2073.3
25°	6053.0	6746.2	7199.0	7155.1	7199.0	6746.2	6053.0	5050.0	3779.5	3189.9	2559.7
22.5°	12759.7	14120.5	14846.6	14833.7	14846.6	14120.5	12759.7	10204.9	7655.2	5607.0	4002.1
20°	25842.1	29868.7	32048.1	31799.8	32048.1	29868.7	25842.1	19894.4	15719.5	10742.0	7311.7
17.5°	45060.4	52837.3	58270.6	58493.1	58270.6	52837.3	45060.4	36351.8	28598.5	19761.8	12717.4
15°	69676.8	81215.9	89361.8	89360.8	89361.8	81215.9	69676.8	57357.6	44327.1	31905.2	21196.3
12.5°	99636.4	113429.5	122749.6	124147.3	122749.6	113429.5	99636.4	82048.4	61277.6	45625.7	30886.6
10°	128389.7	144013.1	158103.1	161982.6	158103.1	144013.1	128389.7	106954.8	83207.5	59352.9	39146.0
7.5°	152727.1	177303.8	190138.5	194180.9	190138.5	177303.8	152727.1	128852.7	101236.7	72493.0	48584.9
5°	176615.7	197889.0	208664.8	211784.4	208664.8	197889.0	176615.7	145202.7	114712.7	83319.8	55634.0
2.5°	189181.9	208708.6	223854.2	232637.7	223854.2	208708.6	189181.9	157246.4	124073.2	91050.0	61326.0
0°	193909.8	212461.7	232773.4	246607.9	232773.4	212461.7	193909.8	162797.9	128004.7	94437.6	64182.6
-2.5°	189180.8	207132.1	222100.4	229387.9	222100.4	207132.1	189180.8	158263.2	123556.7	91121.1	62517.4
-5°	174845.8	195960.5	206858.6	209617.6	206858.6	195960.5	174845.8	145739.7	113646.6	84367.2	58154.5
-7.5°	151950.7	172257.6	185619.5	188629.0	185619.5	172257.6	151950.7	127243.9	100721.1	73627.6	50112.7
-10°	126461.7	143807.3	152821.6	155050.6	152821.6	143807.3	126461.7	104561.7	82867.0	61035.3	40661.0
-12.5°	98263.6	110984.0	120185.7	121434.7	120185.7	110984.0	98263.6	83132.6	64016.0	46107.4	30983.4
-15°	73142.0	81554.7	88973.1	89825.6	88973.1	81554.7	73142.0	60217.6	46364.7	32691.6	21418.6
-17.5°	49001.4	55966.3	60117.2	61314.8	60117.2	55966.3	49001.4	38524.6	30532.3	21494.5	14620.0
-20°	29359.9	34343.8	37110.0	37214.0	37110.0	34343.8	29359.9	23916.9	18700.5	13468.2	9613.5



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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°	17033.2	19806.3	21269.9	21241.5	21269.9	19806.3	17033.2	14302.3	10995.5	8383.2	6446.3
-25°	9823.4	11037.6	11522.1	11539.4	11522.1	11037.6	9823.4	8243.6	6648.2	6031.4	5373.4
-27.5°	6255.0	6533.7	6645.4	6663.3	6645.4	6533.7	6255.0	5878.9	5410.4	5165.3	4889.8
-30°	5244.3	5407.3	5482.3	5503.3	5482.3	5407.3	5244.3	5060.7	4859.4	4711.1	4565.2
-32.5°	4731.9	4821.8	4882.3	4873.5	4882.3	4821.8	4731.9	4632.3	4526.2	4431.2	4347.1
-35°	4448.7	4504.2	4538.3	4554.6	4538.3	4504.2	4448.7	4385.2	4320.3	4253.9	4180.5
-37.5°	4265.0	4314.7	4346.9	4356.6	4346.9	4314.7	4265.0	4206.8	4148.4	4086.1	3983.4
-40°	4073.9	4115.3	4141.7	4151.2	4141.7	4115.3	4073.9	4019.2	3955.7	3864.1	3695.2
-42.5°	3867.6	3912.0	3933.2	3933.4	3933.2	3912.0	3867.6	3785.4	3655.8	3481.5	3220.0
-45°	3499.1	3635.9	3704.5	3707.6	3704.5	3635.9	3499.1	3273.2	2997.9	2694.6	2401.0
-47.5°	2546.7	2682.0	2790.7	2871.1	2790.7	2682.0	2546.7	2352.6	2139.2	1915.0	1701.9
-50°	1730.6	1739.5	1740.1	1732.3	1740.1	1739.5	1730.6	1704.7	1675.1	1642.4	1616.4
-52.5°	1652.5	1661.7	1668.5	1672.3	1668.5	1661.7	1652.5	1627.3	1594.9	1555.1	1518.1
-55°	1525.7	1537.3	1542.1	1540.2	1542.1	1537.3	1525.7	1497.2	1458.7	1409.1	1358.3
-57.5°	1337.2	1344.9	1348.5	1347.4	1348.5	1344.9	1337.2	1314.7	1281.2	1237.0	1189.3
-60°	1161.7	1167.4	1170.7	1170.5	1170.7	1167.4	1161.7	1143.4	1113.6	1075.8	1033.2
-62.5°	998.1	1003.2	1006.9	1007.4	1006.9	1003.2	998.1	982.1	953.5	918.3	878.3
-65°	824.7	828.6	831.0	830.5	831.0	828.6	824.7	812.0	786.5	756.0	721.2
-67.5°	659.2	662.0	664.2	664.1	664.2	662.0	659.2	649.8	628.5	604.3	577.3
-70°	512.3	512.6	513.7	513.0	513.7	512.6	512.3	506.7	489.1	469.1	446.5
-72.5°	377.6	377.2	377.0	375.6	377.0	377.2	377.6	374.4	360.7	345.5	328.7
-75°	281.3	280.3	279.3	277.9	279.3	280.3	281.3	280.4	270.5	260.1	249.1
-77.5°	235.2	235.2	233.6	231.7	233.6	235.2	235.2	234.2	225.4	216.6	208.4
-80°	208.5	208.3	207.5	206.6	207.5	208.3	208.5	208.0	200.6	193.2	186.3
-82.5°	185.6	186.0	185.8	185.5	185.8	186.0	185.6	185.0	178.8	172.5	166.6
-85°	164.4	164.9	164.7	164.4	164.7	164.9	164.4	163.8	158.5	153.3	148.2
-87.5°	146.8	147.2	147.2	147.2	147.2	147.2	146.8	146.4	142.0	137.6	133.2
-90°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	119.5	117.2	114.9	113.3	111.6	109.6	107.6	104.7	101.7	98.7	95.7
87.5°	0.7	0.7	0.7	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.3
85°	1.8	1.8	1.7	1.5	1.3	1.3	1.3	1.5	1.7	1.6	1.6
82.5°	2.0	2.0	2.0	1.9	1.7	1.7	1.6	1.8	2.0	2.0	2.0
80°	2.0	2.2	2.4	2.3	2.3	2.2	2.2	2.1	2.0	2.0	2.0
77.5°	2.0	2.1	2.3	2.5	2.6	2.7	2.7	2.6	2.6	2.7	2.7
75°	3.8	4.1	4.0	3.7	3.5	3.3	3.2	3.1	3.1	3.2	3.3
72.5°	9.7	9.5	9.2	8.3	7.5	7.5	7.3	6.6	5.5	4.1	3.3
70°	14.9	15.2	15.7	16.3	16.2	15.6	14.2	12.5	10.7	8.9	6.8
67.5°	16.1	17.8	19.3	20.5	20.8	21.0	20.4	19.4	19.2	17.5	12.6
65°	14.0	16.5	18.3	19.4	20.0	21.3	23.1	23.4	25.3	25.7	21.0
62.5°	9.6	11.9	13.5	15.1	15.9	17.5	20.8	24.2	29.0	31.0	26.8
60°	5.5	6.7	8.7	10.4	11.6	14.0	18.1	23.5	29.9	30.6	29.6
57.5°	4.2	5.2	6.7	8.2	8.8	11.7	15.7	22.0	28.5	29.7	27.9
55°	7.1	8.0	8.8	10.6	11.9	14.2	16.2	21.4	27.7	30.3	30.5
52.5°	21.5	26.1	26.0	20.9	21.7	24.6	22.9	27.0	31.2	34.7	36.0
50°	107.7	107.2	92.6	74.8	78.0	58.7	59.1	52.2	46.4	48.1	46.2
47.5°	285.6	262.3	239.2	220.7	197.1	174.6	157.0	123.9	114.0	80.9	80.0
45°	453.8	435.9	414.4	379.4	354.6	320.7	295.6	262.6	223.3	190.0	135.4
42.5°	811.2	660.9	562.6	525.8	475.3	440.2	412.7	384.3	355.0	313.2	262.4
40°	1214.6	1176.5	965.3	729.7	619.2	541.3	505.2	480.3	465.3	433.1	384.7
37.5°	1389.1	1348.6	1291.1	1179.5	877.1	701.7	617.1	568.9	565.1	535.4	492.5
35°	1485.7	1456.0	1426.8	1353.8	1192.3	1038.5	803.1	690.4	635.8	623.0	587.8
32.5°	1605.8	1578.1	1540.2	1502.1	1462.2	1446.8	1184.7	909.0	724.3	688.2	657.1
30°	1748.1	1724.0	1678.6	1643.8	1640.2	1626.2	1569.0	1233.2	934.5	744.8	723.3
27.5°	1994.7	1895.1	1841.3	1825.2	1821.2	1813.0	1773.7	1615.5	1183.7	902.9	779.9
25°	2393.8	2199.1	2103.8	2079.2	2080.5	2050.9	2022.9	1892.1	1570.3	1094.2	838.4
22.5°	3042.2	2700.5	2527.3	2443.8	2387.3	2345.2	2260.6	2138.5	1971.4	1368.5	1001.9
20°	4439.3	3371.7	3012.2	2810.6	2653.0	2539.7	2425.8	2313.6	2125.5	1701.6	1174.3
17.5°	7840.1	4710.3	3503.3	3164.6	2921.6	2721.1	2592.5	2448.9	2263.8	1965.4	1319.8
15°	12321.7	7100.7	4524.2	3577.9	3230.9	2962.4	2809.8	2626.7	2431.2	2129.3	1533.1
12.5°	18720.5	10314.1	5488.6	3935.4	3487.2	3168.0	2957.8	2807.3	2596.0	2300.3	1791.7
10°	23962.9	13861.1	7497.7	4681.3	3752.1	3318.6	3067.2	2904.8	2713.3	2456.8	2033.3
7.5°	30130.5	17253.8	9231.1	5212.7	4041.8	3497.5	3159.0	2973.6	2790.8	2518.2	2165.5
5°	34232.1	19710.2	10784.3	5785.5	4320.7	3690.3	3241.6	3023.2	2829.5	2537.7	2254.4
2.5°	37482.0	21071.3	11406.0	5943.1	4501.5	3870.8	3350.7	3084.7	2857.1	2561.2	2322.2
0°	39473.8	21924.1	11212.6	6044.0	4612.1	3988.2	3502.3	3153.0	2869.2	2576.0	2358.8
-2.5°	38574.9	21523.0	11118.1	5962.8	4676.5	4055.9	3621.5	3306.3	2935.8	2597.6	2374.5
-5°	35919.9	19990.1	10879.5	5993.1	4704.7	4104.4	3698.5	3403.8	2997.3	2623.5	2359.9
-7.5°	31194.0	17901.8	9795.9	5802.0	4675.4	4122.1	3743.6	3452.8	3074.4	2704.4	2343.1
-10°	24627.0	14548.4	8239.7	5531.7	4614.2	4110.6	3770.6	3456.8	3103.9	2762.9	2286.2
-12.5°	19604.0	11389.6	6606.3	5144.5	4527.9	4086.3	3780.7	3431.8	3115.0	2816.7	2217.9
-15°	13679.3	8538.2	5950.9	4978.3	4444.4	4051.0	3760.9	3384.8	3103.4	2840.8	2091.2
-17.5°	9652.4	6523.4	5303.2	4730.8	4320.9	4014.6	3687.0	3349.0	3067.6	2711.6	1896.0
-20°	6581.8	5578.3	5019.8	4570.4	4208.1	3945.8	3589.1	3295.8	2997.2	2441.0	1753.1



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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°	5579.0	5125.9	4758.8	4406.7	4158.1	3828.3	3502.0	3215.6	2894.0	2134.4	1595.6
-25°	5069.6	4785.7	4526.2	4327.6	4058.7	3720.3	3421.6	3088.2	2544.6	1880.9	1450.6
-27.5°	4701.0	4507.5	4389.8	4198.4	3911.3	3617.9	3308.4	2894.7	2145.0	1674.9	1454.6
-30°	4435.4	4339.5	4215.6	4019.6	3758.8	3479.6	3176.8	2475.0	1872.3	1513.7	1449.3
-32.5°	4261.8	4160.2	4014.6	3812.4	3577.0	3317.0	2707.6	2080.0	1620.9	1503.5	1415.2
-35°	4100.1	3949.5	3756.7	3565.6	3382.0	2795.5	2193.5	1741.7	1555.1	1479.4	1368.8
-37.5°	3842.8	3661.8	3467.1	3234.9	2734.5	2208.1	1783.4	1597.2	1531.1	1426.5	1299.7
-40°	3487.4	3303.3	2943.6	2547.4	2135.4	1730.5	1622.9	1571.7	1470.9	1356.1	1216.3
-42.5°	2886.9	2551.3	2248.0	1932.8	1671.8	1634.0	1584.5	1497.3	1391.1	1260.2	1128.5
-45°	2146.6	1886.7	1665.6	1651.3	1628.0	1571.6	1500.5	1399.7	1283.5	1159.9	1035.4
-47.5°	1644.9	1626.6	1617.2	1587.4	1537.5	1473.9	1381.4	1282.0	1169.7	1056.2	949.6
-50°	1585.7	1553.7	1520.2	1479.0	1409.6	1333.3	1248.6	1155.2	1056.4	961.2	860.6
-52.5°	1480.2	1429.4	1376.6	1321.9	1261.1	1192.5	1114.8	1037.5	954.0	861.3	768.2
-55°	1309.3	1263.5	1218.9	1169.5	1116.1	1058.6	995.7	922.5	840.5	755.2	676.1
-57.5°	1143.3	1101.2	1068.0	1028.3	983.0	928.5	868.3	797.1	724.7	653.4	584.5
-60°	994.3	955.4	924.5	886.8	842.9	793.1	739.9	679.4	613.9	560.8	508.7
-62.5°	843.6	809.1	777.6	743.4	705.1	662.7	617.8	574.7	525.9	477.4	426.8
-65°	689.2	655.8	628.6	607.4	580.2	551.2	516.4	478.1	432.7	388.2	341.8
-67.5°	551.8	527.1	507.7	489.0	465.3	438.7	406.6	372.2	339.2	306.5	270.2
-70°	424.7	404.9	386.3	367.2	349.5	332.3	310.7	286.1	258.4	236.6	217.0
-72.5°	313.1	300.6	287.7	274.9	260.5	250.4	239.7	226.4	211.3	194.5	180.1
-75°	238.9	232.0	225.1	219.2	212.3	204.6	198.0	190.5	182.5	173.5	164.5
-77.5°	200.9	196.4	192.2	189.5	186.3	182.5	177.7	171.5	165.2	157.8	150.5
-80°	179.7	176.1	172.6	170.1	167.3	164.0	160.4	155.2	149.7	143.5	137.3
-82.5°	160.8	157.9	154.9	152.5	149.9	147.3	144.4	140.0	135.4	130.0	124.6
-85°	143.2	140.8	138.3	136.2	134.1	131.9	129.4	125.5	121.6	117.1	112.6
-87.5°	128.8	126.6	124.4	122.5	120.7	118.5	116.3	113.0	109.7	106.2	102.7
-90°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.3



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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°	91.8	87.8	84.9	81.9	78.6	75.3	71.7	68.0	63.4	58.8	53.2
87.5°	1.3	1.3	1.5	1.7	1.7	1.6	1.6	1.6	1.7	1.7	1.9
85°	1.5	1.5	1.7	2.0	2.0	2.0	1.9	1.9	2.1	2.2	2.2
82.5°	2.0	2.0	1.9	2.0	2.2	2.3	2.2	2.2	2.4	2.6	2.5
80°	2.2	2.3	2.3	2.2	2.4	2.6	2.5	2.5	2.7	2.9	2.8
77.5°	2.7	2.7	2.6	2.5	2.5	2.6	2.7	2.7	3.0	3.1	3.1
75°	3.3	3.1	2.7	2.7	2.8	2.7	2.9	3.1	3.3	3.4	3.5
72.5°	3.3	3.3	3.0	2.9	3.3	3.5	3.5	3.5	3.8	4.0	3.9
70°	5.0	3.9	3.7	3.8	4.1	4.3	4.3	4.4	4.3	4.5	4.6
67.5°	8.0	6.6	5.5	4.8	4.8	5.1	5.3	5.5	5.5	5.2	5.3
65°	15.4	11.1	7.8	6.9	6.1	6.1	6.2	6.7	6.7	6.6	6.0
62.5°	22.0	17.1	13.1	9.8	8.2	8.2	7.3	8.1	8.1	8.1	7.3
60°	28.0	22.9	19.0	15.6	12.6	11.1	10.5	9.7	9.8	9.6	8.9
57.5°	28.2	27.8	26.0	22.0	19.3	16.1	14.4	13.1	11.9	11.7	10.5
55°	28.7	29.0	32.5	30.2	27.3	23.1	20.2	17.8	14.9	14.1	12.2
52.5°	34.3	35.3	38.0	39.8	37.7	31.9	28.8	22.8	20.5	16.7	14.6
50°	44.0	47.4	47.8	51.2	49.4	45.6	38.2	32.0	26.6	20.4	17.3
47.5°	68.7	71.8	65.7	67.4	64.3	61.4	52.4	43.1	33.2	26.6	20.0
45°	130.6	112.3	101.8	93.0	85.1	81.7	69.7	55.4	44.5	33.0	22.8
42.5°	211.7	184.3	163.0	123.8	119.2	105.6	90.4	74.2	56.8	39.8	27.5
40°	326.0	273.7	237.5	195.8	161.4	132.6	117.2	95.5	69.8	48.3	33.6
37.5°	433.6	366.9	320.9	270.1	214.5	176.7	146.6	118.2	85.4	60.3	39.8
35°	520.2	453.9	391.6	339.2	282.8	221.0	178.2	143.7	105.4	72.7	46.1
32.5°	598.7	528.2	457.6	398.6	337.3	264.1	215.1	168.9	125.5	85.6	52.8
30°	668.2	600.8	520.4	447.3	382.3	309.4	250.0	192.5	145.7	98.9	60.5
27.5°	744.1	676.1	584.1	500.3	421.8	348.7	277.8	214.5	165.8	112.4	70.5
25°	815.4	746.3	655.2	559.8	461.7	380.0	303.7	234.9	184.7	126.0	80.1
22.5°	863.3	805.5	720.4	622.7	505.8	410.5	329.1	257.2	197.5	138.5	89.0
20°	901.9	857.4	778.0	670.3	553.7	446.7	354.4	275.2	209.3	149.8	97.4
17.5°	956.8	899.4	818.9	710.3	597.6	483.1	378.9	292.0	220.3	159.9	105.1
15°	1092.0	936.2	858.7	747.9	631.5	514.2	402.8	308.0	230.2	168.9	112.0
12.5°	1232.2	971.9	897.1	780.4	656.5	540.7	425.6	323.0	239.1	177.9	118.2
10°	1363.9	1003.0	932.9	810.2	678.2	563.1	447.2	339.2	252.3	187.3	123.8
7.5°	1475.2	1031.4	966.6	837.0	697.9	583.2	468.9	359.6	265.6	195.8	128.7
5°	1569.2	1057.5	999.3	870.2	721.2	601.8	488.0	378.4	278.1	203.5	132.9
2.5°	1633.2	1081.1	1028.7	901.1	741.5	617.3	504.4	395.5	289.6	210.3	136.5
0°	1675.6	1102.5	1053.7	927.6	758.6	629.8	518.2	410.6	299.7	215.9	139.3
-2.5°	1688.9	1124.9	1074.2	950.1	785.9	646.4	528.3	417.6	306.6	222.3	144.0
-5°	1679.4	1145.6	1090.8	968.0	808.7	659.8	535.8	422.4	312.0	227.3	147.9
-7.5°	1650.7	1168.8	1104.7	981.3	826.3	669.4	540.4	425.0	315.9	231.0	151.0
-10°	1601.8	1192.1	1115.9	986.3	829.0	674.3	542.6	425.3	318.2	233.4	153.1
-12.5°	1540.2	1213.4	1122.8	985.4	825.7	675.4	544.5	424.4	318.9	234.2	154.3
-15°	1461.5	1240.3	1131.7	979.3	818.4	673.3	542.9	421.1	316.9	232.8	154.4
-17.5°	1358.3	1265.4	1137.3	971.4	808.4	668.1	537.4	414.9	313.2	229.0	153.0
-20°	1355.7	1276.2	1134.2	956.3	794.0	658.8	528.1	405.6	307.6	223.9	150.4



REPORT NUMBER: P731413 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1374.6	1271.7	1116.4	936.2	776.8	645.5	515.7	393.4	300.3	217.4	146.9
-25°	1385.0	1263.2	1091.5	914.5	759.2	628.7	501.2	380.7	291.1	209.6	142.5
-27.5°	1368.1	1237.8	1059.0	885.6	739.0	608.7	484.5	371.5	282.8	200.4	137.1
-30°	1339.2	1189.8	1019.1	852.1	713.0	585.6	464.8	360.5	273.7	193.0	130.9
-32.5°	1296.1	1138.2	974.1	819.9	683.4	559.0	442.5	347.3	263.0	186.6	126.8
-35°	1228.2	1080.0	925.9	783.8	650.6	531.8	421.1	332.0	250.8	178.6	123.3
-37.5°	1154.8	1013.2	881.3	744.5	616.3	502.1	402.3	315.8	237.2	168.9	119.3
-40°	1078.0	945.7	824.0	702.1	580.9	470.1	380.7	297.6	224.0	157.6	114.5
-42.5°	997.4	879.7	764.7	652.6	542.4	443.2	356.6	276.4	208.1	149.1	108.9
-45°	922.1	810.5	702.0	600.4	501.3	413.1	329.9	253.2	190.4	141.7	104.7
-47.5°	842.8	738.6	639.1	544.8	463.8	379.7	299.7	231.6	171.4	133.3	103.0
-50°	761.1	665.5	574.9	494.3	420.2	342.6	268.3	208.2	160.1	123.3	101.0
-52.5°	678.4	592.0	514.9	444.2	373.0	302.1	239.2	184.1	147.8	117.9	98.6
-55°	594.9	524.7	458.0	390.4	323.3	264.3	207.8	168.7	134.8	114.3	95.9
-57.5°	523.3	461.1	396.7	333.3	277.5	225.9	184.3	152.6	128.3	110.3	94.1
-60°	452.2	391.1	331.7	281.8	234.2	194.7	165.6	139.3	123.4	106.4	91.8
-62.5°	372.9	320.3	276.1	232.7	199.6	172.2	148.2	132.6	118.0	103.2	89.2
-65°	300.6	260.3	222.6	197.8	173.1	152.3	139.8	125.6	113.2	99.7	86.4
-67.5°	233.9	212.1	190.1	167.8	154.3	142.8	130.9	119.7	108.4	96.0	83.6
-70°	196.6	176.8	163.9	153.8	143.8	133.4	124.1	114.2	103.4	92.3	80.6
-72.5°	170.1	160.7	151.4	142.3	134.1	125.8	117.4	108.5	98.6	88.5	77.4
-75°	155.7	147.7	140.1	132.5	125.2	117.8	110.5	102.5	93.5	84.4	73.9
-77.5°	143.3	136.2	129.3	122.8	116.7	110.4	103.6	96.3	88.3	80.0	70.3
-80°	131.1	125.0	119.3	113.8	108.4	102.9	96.5	90.0	82.8	75.4	66.5
-82.5°	119.2	113.9	109.2	104.5	99.6	94.7	89.2	83.7	77.2	70.6	62.9
-85°	107.8	103.1	99.0	94.8	90.6	86.4	82.2	77.9	72.3	66.7	59.7
-87.5°	98.6	94.6	91.2	87.9	84.4	80.9	77.0	73.0	67.9	62.8	56.5
-90°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.7



REPORT NUMBER: P731413 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	47.5	39.9	32.3	23.4	14.5	8.2	2.0
87.5°	2.2	2.2	2.2	2.2	2.1	2.2	2.0
85°	2.3	2.4	2.5	2.3	2.2	2.3	2.0
82.5°	2.5	2.6	2.7	2.5	2.3	2.5	2.0
80°	2.7	2.8	2.9	2.7	2.5	2.6	2.0
77.5°	3.1	3.1	3.1	2.8	2.6	2.8	2.0
75°	3.5	3.5	3.4	3.0	2.8	3.0	2.0
72.5°	3.9	3.9	3.7	3.2	2.9	3.1	2.0
70°	4.3	4.3	4.1	3.4	3.1	3.3	2.0
67.5°	5.1	4.7	4.5	3.8	3.3	3.4	2.0
65°	6.0	5.3	4.9	4.2	3.5	3.6	2.0
62.5°	6.8	6.2	5.4	4.6	3.7	3.8	2.0
60°	7.8	7.1	5.8	5.0	3.9	4.0	2.0
57.5°	9.3	8.1	6.7	5.4	4.4	4.1	2.0
55°	10.8	9.0	7.6	5.8	4.8	4.3	2.0
52.5°	12.4	10.1	8.5	6.3	5.3	4.5	2.0
50°	14.0	11.6	9.5	6.7	5.8	4.7	2.0
47.5°	15.7	13.1	10.5	7.2	6.3	4.8	2.0
45°	18.2	14.7	11.5	8.0	6.8	5.0	2.0
42.5°	20.7	16.4	12.5	8.8	7.3	5.2	2.0
40°	23.4	18.1	13.7	9.7	7.8	5.4	2.0
37.5°	26.4	19.8	15.0	10.8	8.3	5.6	2.0
35°	29.4	22.0	16.3	11.9	8.9	5.8	2.0
32.5°	33.3	24.4	17.7	13.0	9.4	5.9	2.0
30°	38.8	26.9	19.0	14.1	9.9	6.1	2.0
27.5°	44.2	29.3	20.7	15.2	10.5	6.3	2.0
25°	49.5	31.7	22.4	16.3	11.0	6.5	2.0
22.5°	54.6	34.1	24.1	17.3	11.6	6.6	2.0
20°	59.7	36.6	25.8	18.4	12.1	6.8	2.0
17.5°	64.3	39.0	27.4	19.4	12.6	7.0	2.0
15°	68.6	41.3	29.0	20.4	13.1	7.1	2.0
12.5°	72.6	43.4	30.5	21.4	13.6	7.3	2.0
10°	76.2	45.5	31.9	22.3	14.1	7.4	2.0
7.5°	79.5	47.4	33.3	23.3	14.6	7.6	2.0
5°	82.4	49.1	34.6	24.1	15.0	7.7	2.0
2.5°	85.0	50.7	35.8	24.9	15.4	7.8	2.0
0°	87.1	52.2	37.0	25.7	15.8	7.9	2.0
-2.5°	89.9	54.4	38.6	26.8	16.5	8.2	2.0
-5°	92.3	56.4	40.2	27.9	17.2	8.5	2.0
-7.5°	94.2	58.3	41.6	29.0	17.8	8.8	2.0
-10°	95.7	60.0	43.0	29.9	18.4	9.1	2.0
-12.5°	96.8	61.5	44.2	30.8	19.0	9.4	2.0
-15°	97.3	62.8	45.3	31.6	19.5	9.7	2.0
-17.5°	97.4	64.0	46.3	32.3	20.0	9.9	2.0
-20°	97.0	64.9	47.2	33.0	20.4	10.1	2.0



REPORT NUMBER: P731413 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	96.3	65.6	48.0	33.6	20.8	10.3	2.0
-25°	95.0	66.3	48.6	34.1	21.2	10.5	2.0
-27.5°	93.2	66.8	49.1	34.5	21.5	10.7	2.0
-30°	91.0	67.2	49.5	34.8	21.8	10.8	2.0
-32.5°	88.2	67.3	50.0	35.0	22.0	10.9	2.0
-35°	87.2	67.3	50.4	35.1	22.1	11.1	2.0
-37.5°	86.9	67.2	50.6	35.1	22.3	11.1	2.0
-40°	86.4	67.4	50.7	35.1	22.3	11.2	2.0
-42.5°	85.6	67.4	50.7	35.0	22.3	11.2	2.0
-45°	84.6	67.2	50.7	35.0	22.3	11.3	2.0
-47.5°	83.2	66.8	50.5	34.8	22.2	11.3	2.0
-50°	82.3	66.3	50.1	34.7	22.1	11.2	2.0
-52.5°	81.2	65.6	49.6	34.6	21.9	11.2	2.0
-55°	80.0	64.7	49.0	34.4	21.7	11.1	2.0
-57.5°	78.5	63.5	48.2	34.0	21.4	11.1	2.0
-60°	76.8	62.2	47.3	33.6	21.1	10.9	2.0
-62.5°	75.0	60.7	46.6	33.2	20.7	10.8	2.0
-65°	73.0	59.1	45.8	32.6	20.4	10.7	2.0
-67.5°	70.8	57.5	44.8	31.9	20.0	10.5	2.0
-70°	68.5	55.9	43.8	31.2	19.5	10.3	2.0
-72.5°	66.1	54.1	42.6	30.5	19.0	10.1	2.0
-75°	63.5	52.2	41.3	29.6	18.5	9.9	2.0
-77.5°	60.7	50.2	40.0	28.8	17.9	9.7	2.0
-80°	57.8	48.2	38.7	27.8	17.3	9.4	2.0
-82.5°	55.3	46.2	37.2	26.8	16.6	9.1	2.0
-85°	52.8	44.2	35.6	25.7	15.9	8.9	2.0
-87.5°	50.2	42.1	34.0	24.6	15.2	8.6	2.0
-90°	2.0	2.0	2.0	2.0	2.0	2.0	2.0

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

