

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: P731405 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-70-1S-VHE**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731405 (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-57-70-1S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 1S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

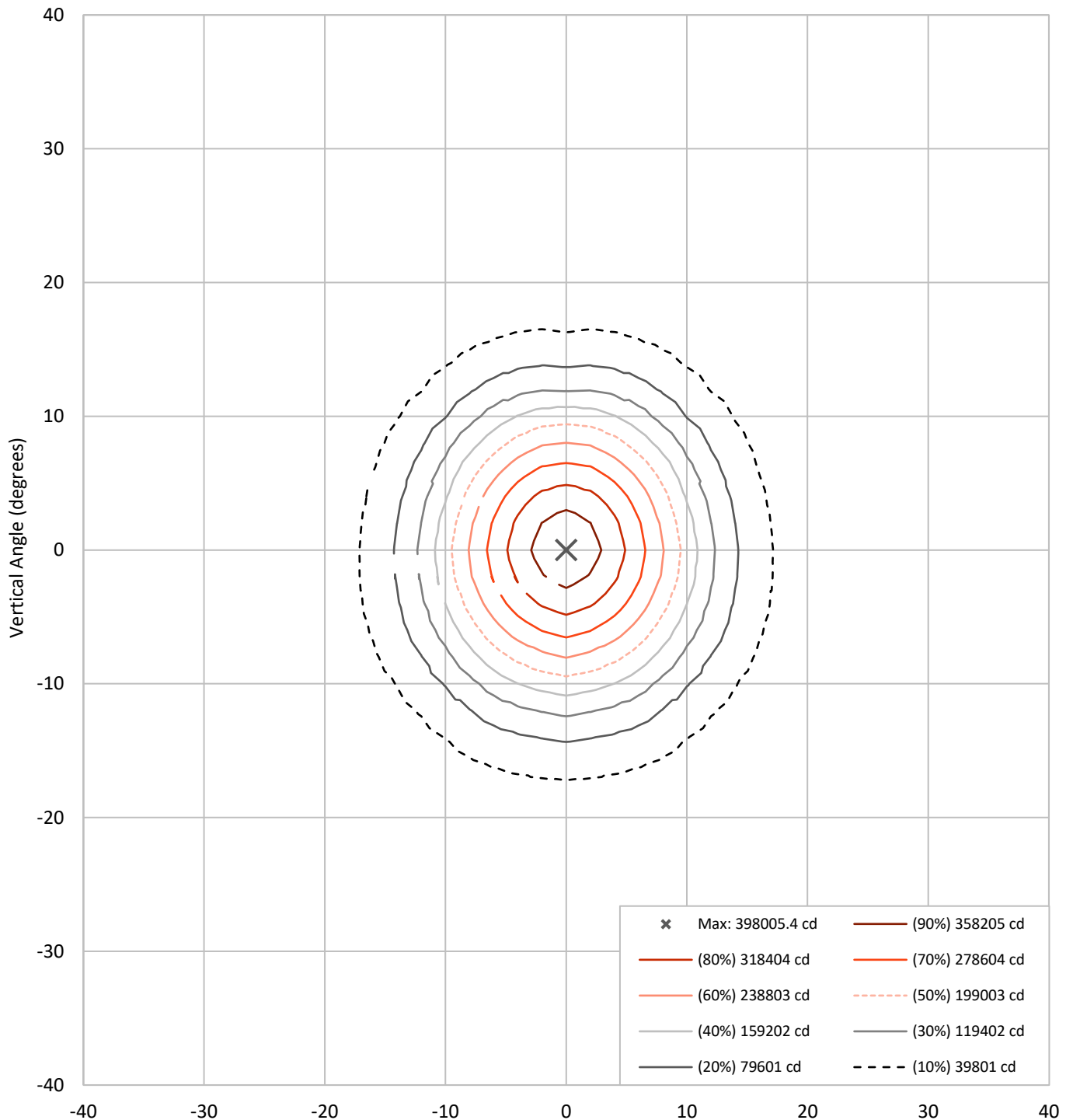
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	52461 lumens	Max Intensity:	398005.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	152.9 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:	23255 lumens	Field Lumens:	42355.4 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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Iso-Candela Plot





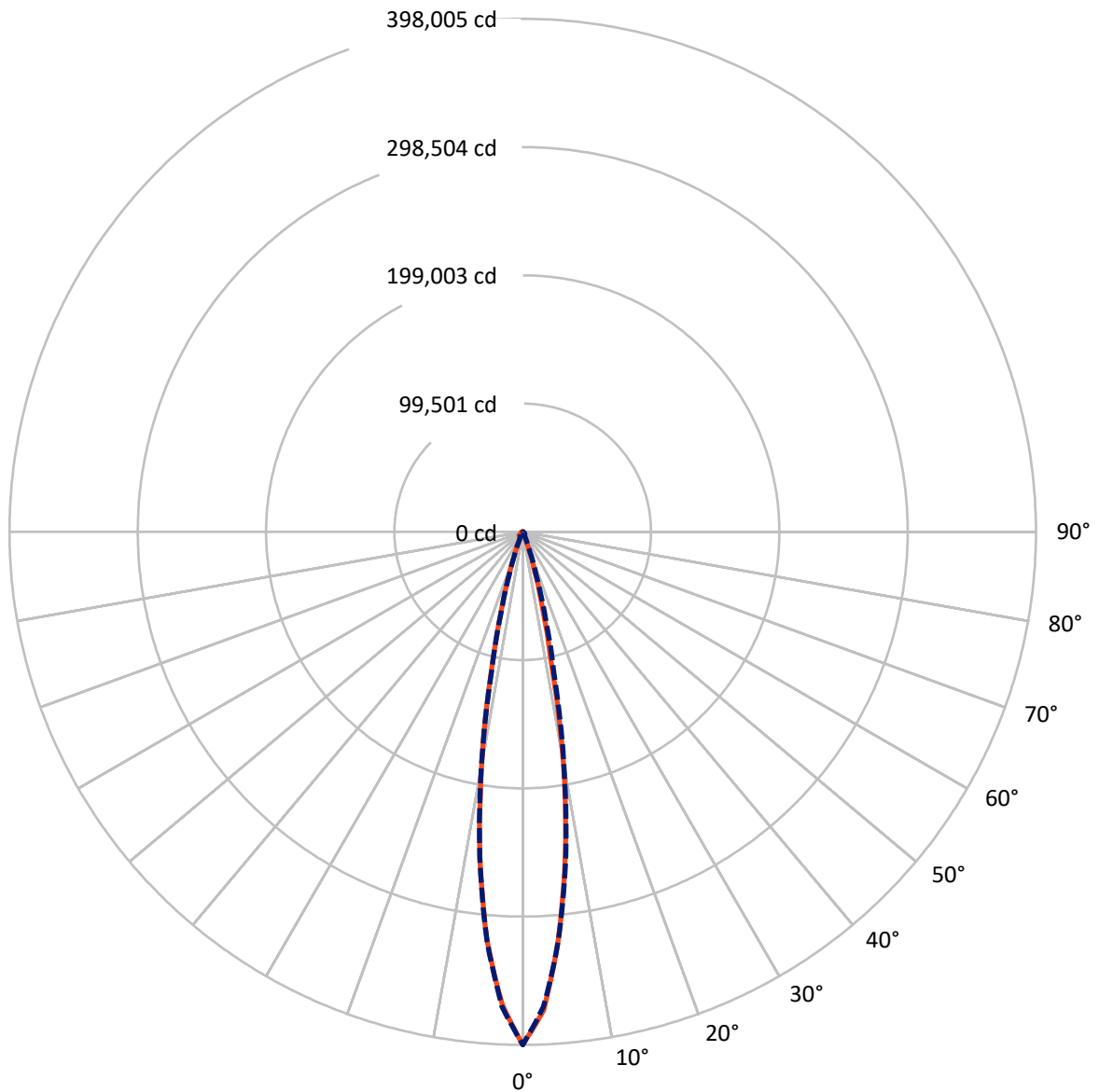
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Lumen Table

90	0.2		0.7		1.3		1.8		2.0		1.8		1.3		0.7		0.2	
80	0.2		0.1	0.2	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.2	0.1	0.2	
70	0.2		0.3	0.6	0.7	0.6	0.6	0.7	0.8	0.8	0.7	0.6	0.6	0.7	0.6	0.3	0.2	
60	0.7		0.9	2.0	3.8	5.9	10.2	15.5	17.2	17.2	15.5	10.2	5.9	3.8	2.0	0.9	0.7	
50	0.7		2.0	5.6	10.2	21.5	35.1	39.3	41.2	41.2	39.3	35.1	21.5	10.2	5.6	2.0	0.7	
40	1.7		3.4	9.2	19.0	45.2	47.9	58.1	96.2	96.2	58.1	47.9	45.2	19.0	9.2	3.4	1.7	
30	1.7		4.6	11.9	33.8	59.8	70.6	439.6	1751.8	1751.8	439.6	70.6	59.8	33.8	11.9	4.6	1.7	
20	2.5		5.6	13.9	44.7	66.7	131.7	1776.2	7390.0	7390.0	1776.2	131.7	66.7	44.7	13.9	5.6	2.5	
10	2.5		6.3	15.6	47.7	74.2	147.3	1867.3	7354.4	7354.4	1867.3	147.3	74.2	47.7	15.6	6.3	2.5	
0	3.0		6.5	16.7	47.1	82.2	101.3	518.5	1898.2	1898.2	518.5	101.3	82.2	47.1	16.7	6.5	3.0	
-10	3.0		6.3	16.9	36.5	83.7	102.5	111.9	173.7	173.7	111.9	102.5	83.7	36.5	16.9	6.3	3.0	
-20	2.8		5.7	15.8	29.1	61.3	103.0	115.8	117.1	117.1	115.8	103.0	61.3	29.1	15.8	5.7	2.8	
-30	2.8		4.7	13.0	25.4	38.0	57.4	85.1	106.1	106.1	85.1	57.4	38.0	25.4	13.0	4.7	2.8	
-40	2.4		3.7	9.4	18.5	29.6	38.5	44.9	49.0	49.0	44.9	38.5	29.6	18.5	9.4	3.7	2.4	
-50	2.4		2.9	6.1	11.3	17.9	24.0	29.3	32.8	32.8	29.3	24.0	17.9	11.3	6.1	2.9	2.4	
-60	2.4		2.9	6.1	11.3	17.9	24.0	29.3	32.8	32.8	29.3	24.0	17.9	11.3	6.1	2.9	2.4	
-70	2.4		2.9	6.1	11.3	17.9	24.0	29.3	32.8	32.8	29.3	24.0	17.9	11.3	6.1	2.9	2.4	
-80	1.6		11.1		26.4		41.5		49.6		41.5		26.4		11.1		1.6	
-90	1.6		11.1		26.4		41.5		49.6		41.5		26.4		11.1		1.6	

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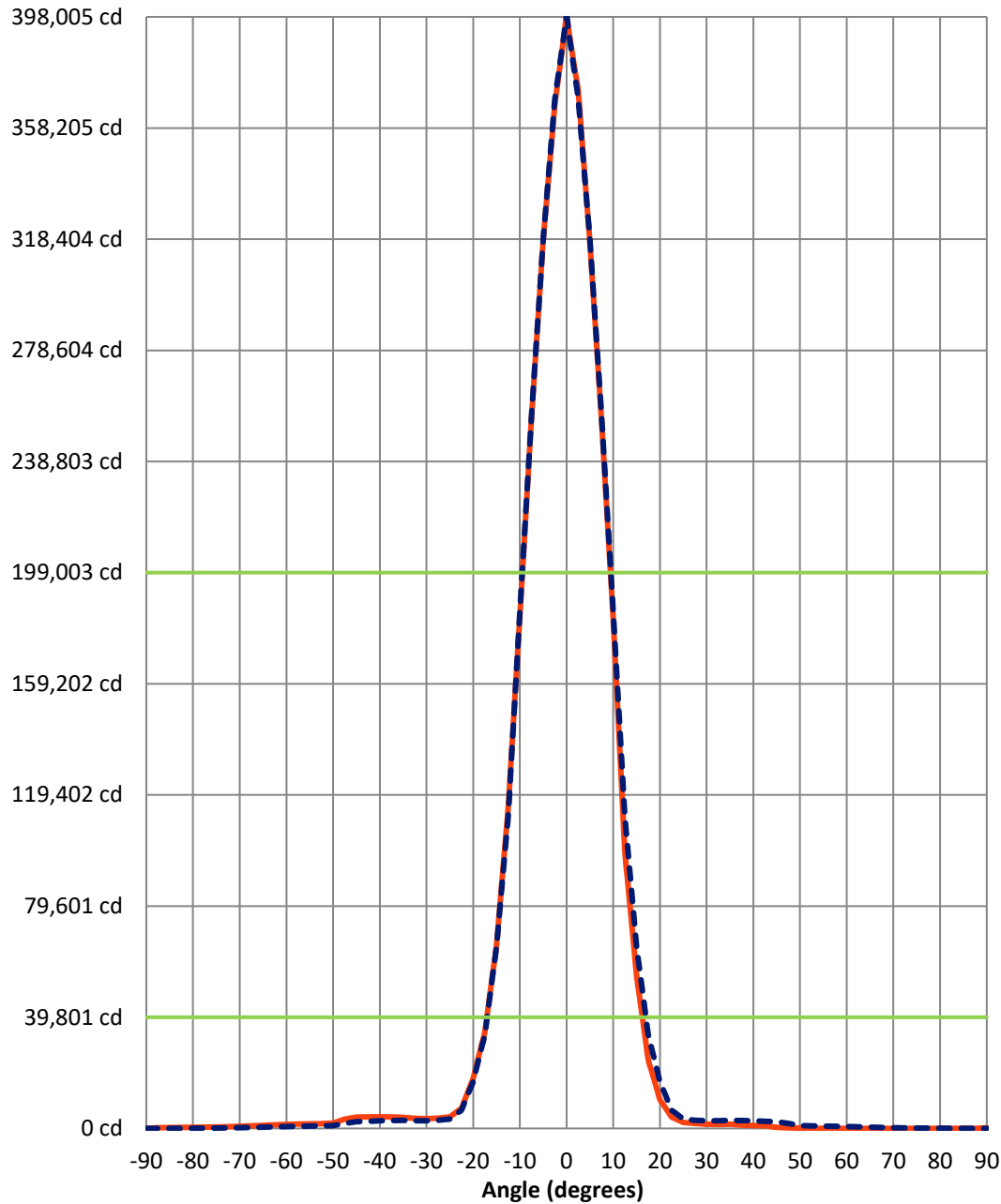
Luminous Intensity Polar Plot



— 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: 23255
Efficiency: 44.3%

Field:
H Angle: 34°
V Angle: 33.3°
Lumens: 42355.4
Efficiency: 80.7%

Spill:
Lumens: 10105.6
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°	5.7	15.2	24.7	37.0	49.4	61.7	74.1	82.9	91.7	100.5	109.3
87.5°	5.7	4.9	4.0	4.0	4.0	3.9	3.8	3.8	3.8	3.8	3.8
85°	5.7	5.1	4.1	4.2	4.1	4.0	3.8	3.8	3.8	3.8	3.8
82.5°	5.7	5.3	4.3	4.4	4.3	4.1	3.8	3.8	3.8	3.9	3.8
80°	5.7	5.4	4.5	4.6	4.5	4.2	3.9	4.1	4.2	4.1	3.8
77.5°	5.7	5.6	4.7	4.7	4.7	4.5	4.4	4.5	4.5	4.3	4.0
75°	5.7	5.8	4.9	4.9	4.9	5.2	5.0	5.0	5.0	4.9	4.6
72.5°	5.7	6.0	5.1	5.1	5.6	5.9	5.6	5.6	5.9	5.7	5.2
70°	5.7	6.1	5.4	5.4	6.3	6.6	6.3	6.6	6.8	6.6	6.3
67.5°	5.7	6.3	5.6	6.1	7.0	7.3	7.6	7.7	7.9	8.1	7.6
65°	5.7	6.5	5.9	6.7	7.8	8.4	8.9	8.8	9.6	9.8	9.3
62.5°	5.7	6.7	6.2	7.3	8.5	9.8	10.3	10.4	11.5	11.8	11.7
60°	5.7	6.9	6.5	8.0	9.3	11.2	11.8	12.4	13.5	14.5	14.4
57.5°	5.7	7.1	7.1	8.6	10.6	12.7	14.1	14.5	16.2	17.4	19.0
55°	5.7	7.3	7.8	9.3	12.0	14.3	16.7	17.2	19.2	21.2	24.9
52.5°	5.7	7.5	8.4	9.9	13.3	16.1	19.4	20.8	22.3	27.6	31.4
50°	5.7	7.7	9.2	10.6	14.8	18.6	22.2	24.7	26.5	34.3	41.7
47.5°	5.7	7.9	9.9	11.3	16.2	21.2	25.3	29.0	33.2	41.5	53.2
45°	5.7	8.1	10.6	12.4	17.7	23.8	29.3	33.5	41.4	52.7	65.4
42.5°	5.7	8.3	11.4	13.5	19.1	26.6	33.5	40.0	50.0	64.5	83.5
40°	5.7	8.5	12.2	15.0	21.0	29.4	37.8	47.7	60.0	76.9	104.0
37.5°	5.7	8.7	13.0	16.7	23.2	32.2	42.3	55.6	72.6	93.0	125.7
35°	5.7	8.9	13.8	18.4	25.4	35.6	47.0	63.7	85.4	113.2	150.2
32.5°	5.7	9.1	14.7	20.1	27.5	39.3	52.3	72.0	98.5	133.0	175.8
30°	5.7	9.3	15.5	21.9	29.7	43.0	59.0	80.9	111.7	152.3	200.2
27.5°	5.7	9.5	16.3	23.7	32.8	46.7	65.6	91.8	126.2	171.1	223.6
25°	5.7	9.7	17.2	25.5	35.9	50.4	72.2	102.5	142.0	190.5	245.9
22.5°	5.7	9.9	18.0	27.3	39.0	54.3	78.6	113.2	157.2	209.4	270.5
20°	5.7	10.1	18.8	29.0	42.1	58.8	85.0	123.6	171.8	227.3	293.7
17.5°	5.7	10.3	19.7	30.8	45.2	63.2	91.3	133.8	185.8	244.0	315.5
15°	5.7	10.5	20.5	32.5	48.1	67.4	97.5	143.1	198.9	259.6	335.7
12.5°	5.7	10.7	21.3	34.2	51.0	71.4	103.3	151.3	210.9	274.0	354.5
10°	5.7	10.8	22.0	35.9	53.8	75.2	108.7	158.8	221.8	289.7	373.7
7.5°	5.7	11.0	22.7	37.5	56.5	78.8	113.8	165.6	231.9	305.1	396.2
5°	5.7	11.1	23.4	39.0	59.0	82.2	118.4	171.6	241.1	319.6	417.2
2.5°	5.7	11.3	24.1	40.4	61.4	85.4	122.6	176.9	249.4	332.9	436.6
0°	5.7	11.4	24.7	41.8	63.7	88.4	126.4	181.5	256.5	344.9	454.1
-2.5°	5.7	12.0	26.0	44.0	66.5	92.1	130.9	187.7	264.9	354.1	463.9
-5°	5.7	12.5	27.3	46.1	69.2	95.5	134.9	193.1	272.0	361.7	471.4
-7.5°	5.7	13.0	28.6	48.1	71.7	98.6	138.4	197.6	277.7	367.7	476.7
-10°	5.7	13.5	29.7	49.9	74.0	101.5	141.5	201.2	282.0	372.1	479.8
-12.5°	5.7	14.0	30.8	51.7	76.2	104.2	144.1	203.8	284.8	375.1	483.1
-15°	5.7	14.5	31.8	53.3	78.1	106.5	146.2	205.4	286.5	377.7	484.9
-17.5°	5.7	15.0	32.8	54.7	79.9	108.5	147.7	206.6	287.0	378.5	484.1
-20°	5.7	15.4	33.6	56.1	81.5	110.2	149.1	207.2	286.0	377.4	480.7



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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	5.7	15.8	34.4	57.2	82.8	111.7	150.3	206.6	283.5	374.2	474.5
-25°	5.7	16.2	35.0	58.2	84.0	113.0	151.0	204.9	279.4	369.2	465.5
-27.5°	5.7	16.5	35.6	59.1	85.0	114.2	150.9	202.0	273.7	362.4	458.0
-30°	5.7	16.8	36.1	59.8	85.9	114.9	150.3	197.9	268.3	354.6	448.2
-32.5°	5.7	17.1	36.5	60.3	86.6	115.3	149.0	195.7	262.7	344.8	436.2
-35°	5.7	17.4	36.7	60.7	87.0	115.4	148.5	193.5	255.6	333.3	421.9
-37.5°	5.7	17.6	36.9	60.9	87.2	115.3	148.2	190.6	246.9	320.0	407.1
-40°	5.7	17.8	37.0	60.9	87.1	115.3	147.4	186.8	236.8	307.6	390.2
-42.5°	5.7	18.0	36.9	60.8	86.9	114.9	146.2	182.2	229.5	294.2	370.6
-45°	5.7	18.1	36.8	60.4	86.4	114.2	144.5	178.2	223.3	279.0	349.0
-47.5°	5.7	18.2	36.5	59.9	85.7	113.2	142.3	175.6	216.0	262.3	329.9
-50°	5.7	18.3	36.1	59.3	84.8	111.9	140.5	172.5	207.2	252.1	308.8
-52.5°	5.7	18.3	35.7	58.6	83.6	110.2	138.4	168.8	200.8	240.5	286.8
-55°	5.7	18.3	35.1	57.6	82.2	108.3	135.9	164.7	195.3	227.8	272.1
-57.5°	5.7	18.3	34.4	56.6	80.5	106.1	133.1	161.1	189.2	219.3	256.0
-60°	5.7	18.2	33.7	55.3	78.7	103.6	129.8	156.9	182.9	211.6	241.4
-62.5°	5.7	18.1	33.3	53.9	76.6	100.8	126.2	152.0	177.1	203.4	231.9
-65°	5.7	18.0	32.9	52.4	74.4	97.7	122.2	146.8	170.9	195.7	221.8
-67.5°	5.7	17.8	32.4	50.7	72.0	94.3	117.9	141.1	164.2	187.8	212.2
-70°	5.7	17.7	31.8	48.9	69.3	90.8	113.2	135.0	156.8	179.5	202.5
-72.5°	5.7	17.4	31.1	47.6	66.5	86.9	108.3	128.6	149.0	170.2	192.1
-75°	5.7	17.2	30.3	46.4	63.5	82.9	103.1	121.8	140.7	160.4	180.7
-77.5°	5.7	16.9	29.5	45.1	61.3	78.6	97.5	114.6	132.0	150.1	168.7
-80°	5.7	16.6	28.7	43.6	59.1	75.1	91.8	107.2	122.9	139.2	156.1
-82.5°	5.7	16.3	27.8	42.1	56.9	72.0	87.5	100.3	113.6	128.0	142.9
-85°	5.7	16.0	26.8	40.5	54.5	68.7	83.2	94.7	106.3	118.3	130.6
-87.5°	5.7	15.6	25.8	38.8	52.0	65.3	78.7	88.8	99.1	109.5	120.0
-90°	5.7	4.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8



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 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	117.6	125.9	134.2	142.5	148.7	154.9	161.0	167.2	172.4	177.7	182.9
87.5°	3.6	3.4	3.1	2.9	2.9	2.9	2.9	2.9	2.7	2.4	2.2
85°	3.6	3.4	3.1	2.9	2.9	2.9	2.9	2.9	2.7	2.4	2.2
82.5°	3.6	3.4	3.1	2.9	2.9	2.9	2.9	2.9	2.7	2.6	2.4
80°	3.6	3.4	3.3	3.2	3.2	3.2	3.1	2.9	2.9	2.9	2.9
77.5°	3.9	3.9	3.8	3.7	3.6	3.5	3.4	3.4	3.4	3.3	3.2
75°	4.4	4.4	4.3	4.0	3.7	3.7	3.8	3.8	3.7	3.4	3.2
72.5°	5.0	5.0	4.7	4.2	4.0	4.1	4.1	3.9	4.2	4.7	5.2
70°	5.8	5.6	5.5	5.0	4.5	4.8	5.5	6.3	6.9	8.1	9.8
67.5°	6.8	7.0	6.8	6.3	6.2	7.2	8.0	11.1	14.4	16.2	16.9
65°	8.5	8.6	9.1	9.2	8.6	11.2	14.7	18.7	22.4	23.1	22.5
62.5°	10.5	11.6	12.4	13.1	14.1	16.7	20.7	24.7	28.8	27.6	23.7
60°	14.5	15.1	17.4	19.5	20.3	21.7	26.1	28.3	29.6	28.8	22.4
57.5°	19.5	20.6	24.3	26.8	27.6	26.0	27.6	28.9	28.8	25.4	19.5
55°	26.4	27.8	32.3	35.7	35.5	29.3	28.9	30.3	28.1	24.7	19.2
52.5°	36.4	37.2	42.3	45.8	44.6	38.1	33.5	35.6	35.3	30.9	26.2
50°	47.4	51.6	53.5	58.5	58.2	53.0	44.3	48.6	56.3	54.9	48.3
47.5°	63.0	68.4	68.6	74.7	77.5	82.1	74.7	84.0	95.3	118.5	111.0
45°	81.6	90.7	91.3	97.0	111.4	128.6	135.6	135.0	192.4	213.0	228.2
42.5°	102.2	116.8	122.9	122.5	168.6	194.8	209.7	257.1	300.7	313.9	321.0
40°	128.3	145.8	159.2	188.9	236.7	272.9	310.4	361.0	384.8	387.1	387.2
37.5°	157.0	182.5	204.0	254.7	315.6	355.8	402.4	424.1	440.6	441.5	460.3
35°	187.6	222.0	261.8	318.3	385.4	431.1	458.0	477.6	486.6	507.3	598.2
32.5°	222.9	264.3	316.2	379.1	443.2	489.8	505.8	522.7	544.7	606.1	872.7
30°	258.4	311.9	367.9	435.6	500.6	533.4	550.3	571.6	606.0	845.4	1214.9
27.5°	288.5	356.5	417.6	488.2	554.6	577.2	596.9	628.8	774.9	1110.8	1624.2
25°	317.3	391.9	463.6	540.2	595.1	620.1	644.8	688.1	973.3	1505.6	1856.0
22.5°	346.2	427.8	505.3	591.5	635.4	661.4	699.3	861.2	1260.1	1900.0	2064.7
20°	375.8	463.6	546.7	633.0	674.2	701.2	753.3	1057.2	1610.6	2068.3	2220.8
17.5°	404.8	498.1	585.7	662.2	705.0	743.2	825.8	1254.3	1926.1	2234.3	2340.6
15°	433.0	531.1	621.1	690.5	735.6	788.5	995.9	1516.4	2130.8	2383.4	2484.3
12.5°	460.1	562.4	653.0	717.7	766.3	833.4	1173.9	1775.6	2267.8	2500.7	2597.4
10°	485.6	591.7	681.7	743.6	796.6	877.3	1353.4	1994.4	2380.9	2580.1	2653.8
7.5°	509.7	617.1	707.4	768.1	826.1	919.6	1527.5	2174.9	2470.1	2647.4	2692.8
5°	530.8	637.8	731.1	794.5	855.8	957.0	1676.6	2319.3	2539.4	2703.5	2733.0
2.5°	548.9	655.6	752.5	819.9	884.5	986.9	1748.6	2377.9	2548.1	2728.2	2774.8
0°	564.3	670.7	771.4	843.6	911.1	1012.7	1789.8	2408.3	2537.5	2735.1	2818.7
-2.5°	576.9	691.2	798.4	868.5	936.6	1037.2	1786.8	2431.8	2564.2	2798.0	2987.2
-5°	586.8	708.5	822.1	891.6	959.9	1058.1	1754.7	2425.0	2600.6	2853.6	3091.0
-7.5°	593.9	722.0	842.2	913.3	982.8	1082.1	1731.8	2454.1	2706.6	2919.7	3133.1
-10°	598.7	730.9	854.4	933.6	1005.9	1105.7	1682.5	2441.9	2805.7	2985.9	3173.5
-12.5°	604.1	735.9	862.2	951.3	1026.1	1124.4	1595.4	2383.6	2897.4	3057.3	3213.0
-15°	606.4	737.6	866.4	966.2	1043.1	1137.6	1469.0	2275.6	2958.8	3096.2	3238.3
-17.5°	605.3	736.0	866.7	978.1	1056.7	1145.3	1302.0	2075.6	2862.4	3111.4	3261.8
-20°	600.9	731.1	863.3	986.9	1067.0	1154.9	1275.1	1845.7	2599.4	3100.0	3278.7



REPORT NUMBER: P731405 (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°	593.1	723.0	855.2	982.0	1078.4	1167.0	1276.4	1607.2	2289.0	3061.4	3280.0
-25°	582.9	711.6	842.9	976.7	1088.4	1175.2	1272.6	1399.0	1981.7	2727.4	3247.3
-27.5°	570.6	696.1	830.7	966.6	1096.5	1180.6	1273.5	1389.1	1710.6	2341.6	3122.4
-30°	555.1	678.9	813.6	950.9	1085.2	1186.3	1273.8	1366.3	1485.0	1993.6	2666.6
-32.5°	537.6	657.9	791.2	927.7	1064.2	1190.1	1266.4	1350.2	1452.2	1635.0	2209.8
-35°	520.0	636.2	763.7	899.1	1037.6	1167.4	1260.1	1335.1	1418.8	1529.9	1792.3
-37.5°	502.9	610.9	731.6	864.8	1000.7	1126.6	1248.5	1322.5	1399.2	1477.4	1586.6
-40°	482.7	582.1	698.8	824.8	952.7	1078.2	1199.1	1309.8	1380.2	1448.0	1518.8
-42.5°	459.6	556.3	663.4	778.7	899.3	1021.2	1144.0	1260.4	1359.3	1419.9	1484.4
-45°	434.7	527.4	625.5	731.6	841.2	959.1	1077.4	1196.0	1301.7	1396.2	1453.9
-47.5°	406.6	495.3	589.2	680.9	783.1	891.5	1005.6	1117.2	1226.0	1326.5	1424.6
-50°	377.5	460.5	547.1	632.7	723.9	823.1	927.9	1033.6	1138.0	1240.3	1336.8
-52.5°	351.5	422.3	502.3	583.7	666.6	754.9	848.1	943.8	1043.9	1143.3	1233.0
-55°	323.4	388.0	454.6	531.5	610.2	689.6	767.5	853.7	943.1	1036.8	1120.6
-57.5°	300.7	352.4	410.9	476.0	549.9	624.6	693.1	762.5	842.0	925.1	997.9
-60°	280.6	321.4	369.0	425.5	486.1	553.6	618.2	682.2	746.4	809.8	878.6
-62.5°	261.1	296.6	333.9	376.7	430.3	482.1	539.0	598.3	657.5	714.3	769.3
-65°	249.3	274.1	305.8	340.8	375.8	420.9	466.9	512.4	564.7	616.1	666.4
-67.5°	236.6	260.0	283.6	309.4	341.5	371.1	400.6	441.8	482.4	521.0	560.6
-70°	224.7	245.5	267.4	289.7	311.3	333.3	360.2	386.9	413.1	441.5	475.5
-72.5°	212.5	231.7	251.4	271.4	290.9	309.1	327.3	345.6	367.0	390.1	412.5
-75°	199.3	217.3	235.3	253.7	270.5	286.6	303.0	319.6	335.8	351.9	368.0
-77.5°	185.3	201.6	218.2	235.0	250.0	264.2	278.6	293.1	307.3	321.3	335.3
-80°	170.8	185.5	200.2	215.2	228.1	240.6	253.2	265.9	278.5	290.9	303.1
-82.5°	155.7	168.5	181.5	194.6	205.6	216.4	227.1	237.8	248.4	259.0	269.5
-85°	140.9	151.2	162.3	173.4	182.7	191.8	200.9	210.0	218.8	227.6	236.3
-87.5°	129.4	138.6	147.9	157.2	164.4	171.6	178.8	185.9	192.7	199.4	206.2
-90°	3.6	3.4	3.1	2.9	2.9	2.9	2.9	2.9	2.7	2.4	2.2



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	188.1	191.7	195.3	198.8	202.4	205.5	208.6	211.6	214.7	216.6	218.5
87.5°	1.9	1.9	1.8	1.8	1.8	1.6	1.4	1.2	1.0	1.0	1.0
85°	1.9	1.9	1.9	1.9	1.9	1.7	1.5	1.2	1.0	1.0	1.0
82.5°	2.4	2.3	2.2	2.1	1.9	1.9	1.8	1.8	1.8	1.8	1.9
80°	2.9	2.7	2.4	2.2	1.9	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	3.0	2.7	2.5	2.2	2.0	1.9	1.9	1.9	1.9	1.9	1.9
75°	3.0	2.9	3.0	3.0	2.8	2.8	2.9	2.8	2.7	2.6	2.4
72.5°	5.7	5.9	5.8	6.0	6.0	6.2	6.4	6.5	6.6	6.6	6.7
70°	10.7	11.1	11.3	11.2	10.5	10.0	9.7	9.4	9.1	9.4	9.9
67.5°	16.3	15.1	14.6	13.7	12.2	11.0	10.2	9.4	8.5	8.1	8.0
65°	20.2	15.9	13.9	12.3	11.1	9.6	8.3	7.2	6.1	5.5	5.3
62.5°	19.2	13.7	10.8	9.1	7.6	6.3	5.2	4.4	3.8	3.5	3.5
60°	16.4	10.8	7.6	6.1	4.6	3.1	2.9	2.7	2.5	2.3	2.4
57.5°	14.7	9.6	5.9	5.7	5.0	3.6	3.1	3.1	2.7	1.9	2.2
55°	16.3	13.8	9.6	9.9	9.6	8.1	6.9	8.3	7.9	6.2	6.8
52.5°	24.5	28.1	22.9	21.3	29.0	28.8	22.5	30.8	35.3	34.5	35.2
50°	57.6	65.0	72.9	66.8	82.0	91.0	89.0	99.8	110.8	110.5	114.0
47.5°	136.4	157.0	159.2	163.3	180.7	202.7	220.7	233.3	239.8	237.1	239.0
45°	244.1	248.7	259.3	283.0	312.5	348.0	375.1	390.8	443.8	481.5	503.5
42.5°	323.5	337.9	364.1	426.4	472.0	576.9	703.8	753.0	815.4	847.0	849.0
40°	403.1	439.9	547.9	661.4	907.7	1090.9	1101.8	1179.5	1215.3	1175.8	1170.0
37.5°	534.7	671.4	856.8	1119.0	1233.6	1283.4	1310.7	1320.7	1327.9	1321.3	1317.9
35°	794.0	1031.7	1213.8	1299.2	1351.0	1352.6	1359.0	1358.1	1349.7	1345.2	1335.8
32.5°	1176.4	1403.2	1408.7	1402.1	1412.9	1406.7	1394.8	1389.3	1371.0	1359.9	1363.6
30°	1570.8	1572.1	1549.6	1497.6	1471.7	1463.7	1446.5	1432.4	1414.9	1417.5	1478.2
27.5°	1727.2	1708.1	1676.7	1631.9	1544.8	1527.8	1513.9	1507.9	1580.9	1647.5	1706.9
25°	1902.3	1852.6	1835.4	1796.3	1706.7	1607.6	1651.2	1719.7	1815.1	1914.3	2010.1
22.5°	2053.7	2017.8	2006.8	1992.2	1846.0	1803.3	1863.1	1975.9	2106.1	2278.6	2771.1
20°	2202.9	2164.1	2151.4	2078.5	2001.8	2012.4	2123.6	2320.2	2684.5	3993.1	5591.1
17.5°	2328.3	2288.2	2244.8	2159.7	2135.4	2242.0	2464.3	3155.3	4874.3	9169.7	13535.4
15°	2445.2	2392.5	2318.8	2262.9	2309.1	2507.7	3058.5	5412.6	10980.7	18190.6	27280.8
12.5°	2549.0	2468.4	2365.2	2336.3	2476.7	2811.2	4971.2	10621.0	19138.4	29409.6	50750.3
10°	2621.3	2516.8	2426.8	2476.8	2700.1	3598.1	7153.8	15923.4	28523.9	51497.0	78065.4
7.5°	2652.4	2557.7	2505.4	2612.8	2910.9	4620.7	10769.2	22022.1	40286.8	71177.6	113568.3
5°	2687.5	2622.3	2593.0	2747.4	3114.0	5453.9	13369.4	27154.4	52865.7	89661.9	144250.3
2.5°	2758.7	2696.5	2676.1	2865.5	3291.7	6230.8	15401.2	31144.4	61199.5	105085.9	171478.0
0°	2884.2	2755.0	2738.9	2924.1	3363.0	6584.5	16734.5	33550.7	65163.3	111685.5	184874.6
-2.5°	2983.9	2830.0	2799.3	2964.4	3394.5	6411.2	16599.3	33467.7	63546.1	109479.7	176367.1
-5°	3070.9	2916.5	2874.1	3027.5	3463.6	6404.8	15719.9	30708.6	56862.2	96201.7	148635.1
-7.5°	3148.3	3014.8	2952.0	3074.1	3472.7	5735.7	12714.8	25282.8	45451.4	75109.0	115041.9
-10°	3229.9	3127.4	3041.8	3123.5	3434.0	4563.7	8506.1	18224.8	32368.6	54468.1	81869.6
-12.5°	3323.2	3271.5	3145.7	3157.6	3381.8	3851.1	6286.9	12723.7	22472.3	34311.4	54173.7
-15°	3402.4	3400.0	3294.6	3261.1	3372.6	3673.5	4386.2	7065.9	13631.7	22056.1	31881.6
-17.5°	3418.9	3503.1	3462.7	3360.3	3366.9	3535.6	3829.4	4682.4	6847.3	12135.8	17981.9
-20°	3429.5	3609.4	3613.6	3530.5	3457.6	3438.8	3573.1	3821.9	4305.6	6092.8	8445.2



REPORT NUMBER: P731405 (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°	3445.7	3616.7	3738.3	3715.3	3572.3	3488.7	3458.6	3552.8	3716.5	3947.2	4710.4
-25°	3453.5	3613.0	3787.1	3834.9	3774.9	3621.8	3507.3	3443.3	3501.2	3574.5	3723.8
-27.5°	3420.6	3607.3	3776.1	3917.6	3934.8	3834.7	3666.4	3529.8	3476.7	3426.4	3487.9
-30°	3365.8	3574.5	3751.0	3925.0	3994.6	3962.6	3874.5	3763.6	3634.3	3533.7	3498.3
-32.5°	2917.7	3525.3	3706.1	3856.9	3971.7	4004.5	4005.4	3946.1	3890.8	3813.2	3722.4
-35°	2403.8	3077.8	3665.9	3741.9	3847.2	3955.9	4036.7	4039.4	4033.0	3996.2	3957.9
-37.5°	1868.6	2496.7	3062.3	3515.2	3674.4	3802.4	3940.7	4034.1	4092.8	4082.2	4075.1
-40°	1626.9	1824.8	2354.0	2815.6	3202.9	3567.3	3717.0	3884.9	4019.9	4066.9	4098.6
-42.5°	1552.2	1636.9	1723.0	2072.8	2471.7	2822.7	3152.7	3467.4	3748.4	3907.6	4018.4
-45°	1511.3	1558.3	1611.1	1689.0	1756.4	2047.0	2342.7	2629.9	2980.4	3303.1	3583.0
-47.5°	1473.4	1510.2	1551.0	1591.1	1628.5	1681.3	1727.0	1808.6	2071.1	2335.9	2601.5
-50°	1412.3	1473.2	1507.1	1537.0	1563.4	1588.0	1609.1	1646.0	1689.5	1727.5	1765.9
-52.5°	1310.3	1378.9	1444.0	1493.3	1514.0	1534.4	1555.2	1583.1	1608.9	1632.5	1650.6
-55°	1196.0	1265.4	1331.0	1381.0	1425.8	1467.1	1503.9	1528.6	1552.7	1575.9	1593.6
-57.5°	1070.3	1141.0	1205.2	1253.1	1298.0	1339.6	1380.1	1419.0	1454.6	1486.7	1514.0
-60°	942.9	1002.7	1060.6	1111.3	1157.5	1199.2	1239.3	1277.6	1312.6	1344.1	1371.5
-62.5°	823.4	878.7	924.5	966.0	1005.8	1044.3	1084.8	1122.1	1155.9	1186.9	1215.3
-65°	715.6	763.2	797.9	830.4	861.0	894.1	929.7	962.6	992.5	1020.3	1045.9
-67.5°	604.7	645.9	676.4	704.5	730.7	757.0	785.5	812.0	836.5	859.9	881.8
-70°	508.4	537.2	558.4	579.9	603.2	626.9	651.4	673.8	693.9	713.0	730.7
-72.5°	434.3	452.0	466.9	485.3	501.9	519.6	537.8	554.7	570.1	585.1	599.2
-75°	384.2	397.2	409.4	420.8	431.4	444.0	457.2	469.6	481.3	492.2	502.6
-77.5°	349.3	359.4	367.8	375.7	383.3	393.1	403.4	413.4	423.1	431.4	439.0
-80°	315.3	323.4	330.5	337.4	344.0	352.5	361.1	369.6	377.7	385.2	392.4
-82.5°	280.0	286.6	292.7	298.5	304.2	311.4	318.5	325.5	332.2	338.3	344.3
-85°	244.9	249.9	254.7	259.3	263.8	269.6	275.4	281.1	286.6	290.7	294.5
-87.5°	212.9	216.7	220.3	223.8	227.3	231.5	235.7	239.9	244.0	246.7	249.4
-90°	1.9	1.7	1.5	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0



REPORT NUMBER: P731405 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	220.4	222.3	221.9	221.4	221.9	222.3	220.4	218.5	216.6	214.7	211.6
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
75°	2.2	1.9	1.9	1.9	1.9	1.9	2.2	2.4	2.6	2.7	2.8
72.5°	6.7	6.6	6.7	6.7	6.7	6.6	6.7	6.7	6.6	6.6	6.5
70°	10.6	11.2	11.4	11.4	11.4	11.2	10.6	9.9	9.4	9.1	9.4
67.5°	7.9	7.7	7.2	6.7	7.2	7.7	7.9	8.0	8.1	8.5	9.4
65°	5.1	4.9	4.8	4.8	4.8	4.9	5.1	5.3	5.5	6.1	7.2
62.5°	3.6	3.8	3.8	3.8	3.8	3.8	3.6	3.5	3.5	3.8	4.4
60°	2.6	2.9	2.9	2.9	2.9	2.9	2.6	2.4	2.3	2.5	2.7
57.5°	2.5	2.8	2.9	2.9	2.9	2.8	2.5	2.2	1.9	2.7	3.1
55°	7.3	7.4	7.2	6.7	7.2	7.4	7.3	6.8	6.2	7.9	8.3
52.5°	34.7	32.0	27.9	22.8	27.9	32.0	34.7	35.2	34.5	35.3	30.8
50°	120.6	123.8	120.9	112.1	120.9	123.8	120.6	114.0	110.5	110.8	99.8
47.5°	248.3	251.1	242.4	222.3	242.4	251.1	248.3	239.0	237.1	239.8	233.3
45°	519.9	515.9	471.1	378.1	471.1	515.9	519.9	503.5	481.5	443.8	390.8
42.5°	896.5	936.5	960.1	960.5	960.1	936.5	896.5	849.0	847.0	815.4	753.0
40°	1160.4	1113.6	1062.4	1054.5	1062.4	1113.6	1160.4	1170.0	1175.8	1215.3	1179.5
37.5°	1309.9	1319.7	1314.1	1203.7	1314.1	1319.7	1309.9	1317.9	1321.3	1327.9	1320.7
35°	1357.5	1431.7	1508.1	1523.8	1508.1	1431.7	1357.5	1335.8	1345.2	1349.7	1358.1
32.5°	1380.5	1406.0	1412.9	1415.5	1412.9	1406.0	1380.5	1363.6	1359.9	1371.0	1389.3
30°	1506.2	1522.8	1520.4	1517.2	1520.4	1522.8	1506.2	1478.2	1417.5	1414.9	1432.4
27.5°	1735.0	1762.5	1774.7	1783.2	1774.7	1762.5	1735.0	1706.9	1647.5	1580.9	1507.9
25°	2062.5	2104.6	2133.4	2146.1	2133.4	2104.6	2062.5	2010.1	1914.3	1815.1	1719.7
22.5°	3339.9	3631.3	3919.8	4068.9	3919.8	3631.3	3339.9	2771.1	2278.6	2106.1	1975.9
20°	8337.7	9597.0	10172.1	10339.9	10172.1	9597.0	8337.7	5591.1	3993.1	2684.5	2320.2
17.5°	19416.7	24190.2	27382.9	24585.4	27382.9	24190.2	19416.7	13535.4	9169.7	4874.3	3155.3
15°	39741.5	51831.0	58595.9	54789.2	58595.9	51831.0	39741.5	27280.8	18190.6	10980.7	5412.6
12.5°	71602.9	90470.2	103142.2	98963.4	103142.2	90470.2	71602.9	50750.3	29409.6	19138.4	10621.0
10°	112701.4	150640.7	175903.0	182148.0	175903.0	150640.7	112701.4	78065.4	51497.0	28523.9	15923.4
7.5°	163551.3	210525.3	247604.2	253343.0	247604.2	210525.3	163551.3	113568.3	71177.6	40286.8	22022.1
5°	213297.5	268744.2	307324.1	317339.7	307324.1	268744.2	213297.5	144250.3	89661.9	52865.7	27154.4
2.5°	244173.6	304522.9	350994.3	371463.9	350994.3	304522.9	244173.6	171478.0	105085.9	61199.5	31144.4
0°	255194.1	318221.3	368642.8	398005.4	368642.8	318221.3	255194.1	184874.6	111685.5	65163.3	33550.7
-2.5°	246649.7	303726.7	346291.5	366703.3	346291.5	303726.7	246649.7	176367.1	109479.7	63546.1	33467.7
-5°	210075.9	266786.0	301417.4	318044.6	301417.4	266786.0	210075.9	148635.1	96201.7	56862.2	30708.6
-7.5°	164155.6	209545.2	239450.1	254577.0	239450.1	209545.2	164155.6	115041.9	75109.0	45451.4	25282.8
-10°	114859.6	150870.3	171028.6	183371.6	171028.6	150870.3	114859.6	81869.6	54468.1	32368.6	18224.8
-12.5°	74733.3	95693.7	106983.7	114891.8	106983.7	95693.7	74733.3	54173.7	34311.4	22472.3	12723.7
-15°	45367.6	55582.8	61712.3	65554.7	61712.3	55582.8	45367.6	31881.6	22056.1	13631.7	7065.9
-17.5°	25321.5	29709.1	32815.8	34534.9	32815.8	29709.1	25321.5	17981.9	12135.8	6847.3	4682.4
-20°	12564.6	15340.2	17163.3	17928.7	17163.3	15340.2	12564.6	8445.2	6092.8	4305.6	3821.9



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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°	5798.6	6540.1	7031.0	7264.8	7031.0	6540.1	5798.6	4710.4	3947.2	3716.5	3552.8
-25°	3868.8	3985.2	4070.7	4107.9	4070.7	3985.2	3868.8	3723.8	3574.5	3501.2	3443.3
-27.5°	3543.6	3605.2	3656.4	3676.6	3656.4	3605.2	3543.6	3487.9	3426.4	3476.7	3529.8
-30°	3471.2	3473.9	3488.3	3488.5	3488.3	3473.9	3471.2	3498.3	3533.7	3634.3	3763.6
-32.5°	3653.6	3613.6	3596.1	3614.8	3596.1	3613.6	3653.6	3722.4	3813.2	3890.8	3946.1
-35°	3932.4	3921.5	3922.4	3942.6	3922.4	3921.5	3932.4	3957.9	3996.2	4033.0	4039.4
-37.5°	4076.9	4085.4	4095.1	4097.4	4095.1	4085.4	4076.9	4075.1	4082.2	4092.8	4034.1
-40°	4117.1	4133.7	4146.2	4150.6	4146.2	4133.7	4117.1	4098.6	4066.9	4019.9	3884.9
-42.5°	4067.3	4100.4	4118.0	4122.1	4118.0	4100.4	4067.3	4018.4	3907.6	3748.4	3467.4
-45°	3786.1	3933.6	4017.0	4039.5	4017.0	3933.6	3786.1	3583.0	3303.1	2980.4	2629.9
-47.5°	2860.0	3091.4	3252.5	3326.9	3252.5	3091.4	2860.0	2601.5	2335.9	2071.1	1808.6
-50°	1806.2	1844.4	1872.9	1890.5	1872.9	1844.4	1806.2	1765.9	1727.5	1689.5	1646.0
-52.5°	1666.4	1680.4	1688.6	1692.0	1688.6	1680.4	1666.4	1650.6	1632.5	1608.9	1583.1
-55°	1608.7	1621.7	1627.4	1628.3	1627.4	1621.7	1608.7	1593.6	1575.9	1552.7	1528.6
-57.5°	1537.6	1557.4	1566.1	1567.5	1566.1	1557.4	1537.6	1514.0	1486.7	1454.6	1419.0
-60°	1394.8	1413.9	1423.3	1426.9	1423.3	1413.9	1394.8	1371.5	1344.1	1312.6	1277.6
-62.5°	1239.9	1260.7	1267.1	1266.4	1267.1	1260.7	1239.9	1215.3	1186.9	1155.9	1122.1
-65°	1068.3	1087.4	1092.9	1092.5	1092.9	1087.4	1068.3	1045.9	1020.3	992.5	962.6
-67.5°	901.2	918.0	923.8	925.3	923.8	918.0	901.2	881.8	859.9	836.5	812.0
-70°	746.2	759.5	762.8	762.9	762.8	759.5	746.2	730.7	713.0	693.9	673.8
-72.5°	612.0	623.4	625.4	625.1	625.4	623.4	612.0	599.2	585.1	570.1	554.7
-75°	512.3	521.4	521.7	520.6	521.7	521.4	512.3	502.6	492.2	481.3	469.6
-77.5°	446.2	452.9	454.4	455.1	454.4	452.9	446.2	439.0	431.4	423.1	413.4
-80°	399.2	405.7	405.5	404.7	405.5	405.7	399.2	392.4	385.2	377.7	369.6
-82.5°	350.1	355.6	355.6	355.3	355.6	355.6	350.1	344.3	338.3	332.2	325.5
-85°	298.2	301.7	301.6	301.2	301.6	301.7	298.2	294.5	290.7	286.6	281.1
-87.5°	251.9	254.5	254.6	254.6	254.6	254.5	251.9	249.4	246.7	244.0	239.9
-90°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	208.6	205.5	202.4	198.8	195.3	191.7	188.1	182.9	177.7	172.4	167.2
87.5°	1.4	1.6	1.8	1.8	1.8	1.9	1.9	2.2	2.4	2.7	2.9
85°	1.5	1.7	1.9	1.9	1.9	1.9	1.9	2.2	2.4	2.7	2.9
82.5°	1.8	1.9	1.9	2.1	2.2	2.3	2.4	2.4	2.6	2.7	2.9
80°	1.9	1.9	1.9	2.2	2.4	2.7	2.9	2.9	2.9	2.9	2.9
77.5°	1.9	1.9	2.0	2.2	2.5	2.7	3.0	3.2	3.3	3.4	3.4
75°	2.9	2.8	2.8	3.0	3.0	2.9	3.0	3.2	3.4	3.7	3.8
72.5°	6.4	6.2	6.0	6.0	5.8	5.9	5.7	5.2	4.7	4.2	3.9
70°	9.7	10.0	10.5	11.2	11.3	11.1	10.7	9.8	8.1	6.9	6.3
67.5°	10.2	11.0	12.2	13.7	14.6	15.1	16.3	16.9	16.2	14.4	11.1
65°	8.3	9.6	11.1	12.3	13.9	15.9	20.2	22.5	23.1	22.4	18.7
62.5°	5.2	6.3	7.6	9.1	10.8	13.7	19.2	23.7	27.6	28.8	24.7
60°	2.9	3.1	4.6	6.1	7.6	10.8	16.4	22.4	28.8	29.6	28.3
57.5°	3.1	3.6	5.0	5.7	5.9	9.6	14.7	19.5	25.4	28.8	28.9
55°	6.9	8.1	9.6	9.9	9.6	13.8	16.3	19.2	24.7	28.1	30.3
52.5°	22.5	28.8	29.0	21.3	22.9	28.1	24.5	26.2	30.9	35.3	35.6
50°	89.0	91.0	82.0	66.8	72.9	65.0	57.6	48.3	54.9	56.3	48.6
47.5°	220.7	202.7	180.7	163.3	159.2	157.0	136.4	111.0	118.5	95.3	84.0
45°	375.1	348.0	312.5	283.0	259.3	248.7	244.1	228.2	213.0	192.4	135.0
42.5°	703.8	576.9	472.0	426.4	364.1	337.9	323.5	321.0	313.9	300.7	257.1
40°	1101.8	1090.9	907.7	661.4	547.9	439.9	403.1	387.2	387.1	384.8	361.0
37.5°	1310.7	1283.4	1233.6	1119.0	856.8	671.4	534.7	460.3	441.5	440.6	424.1
35°	1359.0	1352.6	1351.0	1299.2	1213.8	1031.7	794.0	598.2	507.3	486.6	477.6
32.5°	1394.8	1406.7	1412.9	1402.1	1408.7	1403.2	1176.4	872.7	606.1	544.7	522.7
30°	1446.5	1463.7	1471.7	1497.6	1549.6	1572.1	1570.8	1214.9	845.4	606.0	571.6
27.5°	1513.9	1527.8	1544.8	1631.9	1676.7	1708.1	1727.2	1624.2	1110.8	774.9	628.8
25°	1651.2	1607.6	1706.7	1796.3	1835.4	1852.6	1902.3	1856.0	1505.6	973.3	688.1
22.5°	1863.1	1803.3	1846.0	1992.2	2006.8	2017.8	2053.7	2064.7	1900.0	1260.1	861.2
20°	2123.6	2012.4	2001.8	2078.5	2151.4	2164.1	2202.9	2220.8	2068.3	1610.6	1057.2
17.5°	2464.3	2242.0	2135.4	2159.7	2244.8	2288.2	2328.3	2340.6	2234.3	1926.1	1254.3
15°	3058.5	2507.7	2309.1	2262.9	2318.8	2392.5	2445.2	2484.3	2383.4	2130.8	1516.4
12.5°	4971.2	2811.2	2476.7	2336.3	2365.2	2468.4	2549.0	2597.4	2500.7	2267.8	1775.6
10°	7153.8	3598.1	2700.1	2476.8	2426.8	2516.8	2621.3	2653.8	2580.1	2380.9	1994.4
7.5°	10769.2	4620.7	2910.9	2612.8	2505.4	2557.7	2652.4	2692.8	2647.4	2470.1	2174.9
5°	13369.4	5453.9	3114.0	2747.4	2593.0	2622.3	2687.5	2733.0	2703.5	2539.4	2319.3
2.5°	15401.2	6230.8	3291.7	2865.5	2676.1	2696.5	2758.7	2774.8	2728.2	2548.1	2377.9
0°	16734.5	6584.5	3363.0	2924.1	2738.9	2755.0	2884.2	2818.7	2735.1	2537.5	2408.3
-2.5°	16599.3	6411.2	3394.5	2964.4	2799.3	2830.0	2983.9	2987.2	2798.0	2564.2	2431.8
-5°	15719.9	6404.8	3463.6	3027.5	2874.1	2916.5	3070.9	3091.0	2853.6	2600.6	2425.0
-7.5°	12714.8	5735.7	3472.7	3074.1	2952.0	3014.8	3148.3	3133.1	2919.7	2706.6	2454.1
-10°	8506.1	4563.7	3434.0	3123.5	3041.8	3127.4	3229.9	3173.5	2985.9	2805.7	2441.9
-12.5°	6286.9	3851.1	3381.8	3157.6	3145.7	3271.5	3323.2	3213.0	3057.3	2897.4	2383.6
-15°	4386.2	3673.5	3372.6	3261.1	3294.6	3400.0	3402.4	3238.3	3096.2	2958.8	2275.6
-17.5°	3829.4	3535.6	3366.9	3360.3	3462.7	3503.1	3418.9	3261.8	3111.4	2862.4	2075.6
-20°	3573.1	3438.8	3457.6	3530.5	3613.6	3609.4	3429.5	3278.7	3100.0	2599.4	1845.7



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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°	3458.6	3488.7	3572.3	3715.3	3738.3	3616.7	3445.7	3280.0	3061.4	2289.0	1607.2
-25°	3507.3	3621.8	3774.9	3834.9	3787.1	3613.0	3453.5	3247.3	2727.4	1981.7	1399.0
-27.5°	3666.4	3834.7	3934.8	3917.6	3776.1	3607.3	3420.6	3122.4	2341.6	1710.6	1389.1
-30°	3874.5	3962.6	3994.6	3925.0	3751.0	3574.5	3365.8	2666.6	1993.6	1485.0	1366.3
-32.5°	4005.4	4004.5	3971.7	3856.9	3706.1	3525.3	2917.7	2209.8	1635.0	1452.2	1350.2
-35°	4036.7	3955.9	3847.2	3741.9	3665.9	3077.8	2403.8	1792.3	1529.9	1418.8	1335.1
-37.5°	3940.7	3802.4	3674.4	3515.2	3062.3	2496.7	1868.6	1586.6	1477.4	1399.2	1322.5
-40°	3717.0	3567.3	3202.9	2815.6	2354.0	1824.8	1626.9	1518.8	1448.0	1380.2	1309.8
-42.5°	3152.7	2822.7	2471.7	2072.8	1723.0	1636.9	1552.2	1484.4	1419.9	1359.3	1260.4
-45°	2342.7	2047.0	1756.4	1689.0	1611.1	1558.3	1511.3	1453.9	1396.2	1301.7	1196.0
-47.5°	1727.0	1681.3	1628.5	1591.1	1551.0	1510.2	1473.4	1424.6	1326.5	1226.0	1117.2
-50°	1609.1	1588.0	1563.4	1537.0	1507.1	1473.2	1412.3	1336.8	1240.3	1138.0	1033.6
-52.5°	1555.2	1534.4	1514.0	1493.3	1444.0	1378.9	1310.3	1233.0	1143.3	1043.9	943.8
-55°	1503.9	1467.1	1425.8	1381.0	1331.0	1265.4	1196.0	1120.6	1036.8	943.1	853.7
-57.5°	1380.1	1339.6	1298.0	1253.1	1205.2	1141.0	1070.3	997.9	925.1	842.0	762.5
-60°	1239.3	1199.2	1157.5	1111.3	1060.6	1002.7	942.9	878.6	809.8	746.4	682.2
-62.5°	1084.8	1044.3	1005.8	966.0	924.5	878.7	823.4	769.3	714.3	657.5	598.3
-65°	929.7	894.1	861.0	830.4	797.9	763.2	715.6	666.4	616.1	564.7	512.4
-67.5°	785.5	757.0	730.7	704.5	676.4	645.9	604.7	560.6	521.0	482.4	441.8
-70°	651.4	626.9	603.2	579.9	558.4	537.2	508.4	475.5	441.5	413.1	386.9
-72.5°	537.8	519.6	501.9	485.3	466.9	452.0	434.3	412.5	390.1	367.0	345.6
-75°	457.2	444.0	431.4	420.8	409.4	397.2	384.2	368.0	351.9	335.8	319.6
-77.5°	403.4	393.1	383.3	375.7	367.8	359.4	349.3	335.3	321.3	307.3	293.1
-80°	361.1	352.5	344.0	337.4	330.5	323.4	315.3	303.1	290.9	278.5	265.9
-82.5°	318.5	311.4	304.2	298.5	292.7	286.6	280.0	269.5	259.0	248.4	237.8
-85°	275.4	269.6	263.8	259.3	254.7	249.9	244.9	236.3	227.6	218.8	210.0
-87.5°	235.7	231.5	227.3	223.8	220.3	216.7	212.9	206.2	199.4	192.7	185.9
-90°	1.0	1.0	1.0	1.2	1.5	1.7	1.9	2.2	2.4	2.7	2.9



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 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	161.0	154.9	148.7	142.5	134.2	125.9	117.6	109.3	100.5	91.7	82.9
87.5°	2.9	2.9	2.9	2.9	3.1	3.4	3.6	3.8	3.8	3.8	3.8
85°	2.9	2.9	2.9	2.9	3.1	3.4	3.6	3.8	3.8	3.8	3.8
82.5°	2.9	2.9	2.9	2.9	3.1	3.4	3.6	3.8	3.9	3.8	3.8
80°	3.1	3.2	3.2	3.2	3.3	3.4	3.6	3.8	4.1	4.2	4.1
77.5°	3.4	3.5	3.6	3.7	3.8	3.9	3.9	4.0	4.3	4.5	4.5
75°	3.8	3.7	3.7	4.0	4.3	4.4	4.4	4.6	4.9	5.0	5.0
72.5°	4.1	4.1	4.0	4.2	4.7	5.0	5.0	5.2	5.7	5.9	5.6
70°	5.5	4.8	4.5	5.0	5.5	5.6	5.8	6.3	6.6	6.8	6.6
67.5°	8.0	7.2	6.2	6.3	6.8	7.0	6.8	7.6	8.1	7.9	7.7
65°	14.7	11.2	8.6	9.2	9.1	8.6	8.5	9.3	9.8	9.6	8.8
62.5°	20.7	16.7	14.1	13.1	12.4	11.6	10.5	11.7	11.8	11.5	10.4
60°	26.1	21.7	20.3	19.5	17.4	15.1	14.5	14.4	14.5	13.5	12.4
57.5°	27.6	26.0	27.6	26.8	24.3	20.6	19.5	19.0	17.4	16.2	14.5
55°	28.9	29.3	35.5	35.7	32.3	27.8	26.4	24.9	21.2	19.2	17.2
52.5°	33.5	38.1	44.6	45.8	42.3	37.2	36.4	31.4	27.6	22.3	20.8
50°	44.3	53.0	58.2	58.5	53.5	51.6	47.4	41.7	34.3	26.5	24.7
47.5°	74.7	82.1	77.5	74.7	68.6	68.4	63.0	53.2	41.5	33.2	29.0
45°	135.6	128.6	111.4	97.0	91.3	90.7	81.6	65.4	52.7	41.4	33.5
42.5°	209.7	194.8	168.6	122.5	122.9	116.8	102.2	83.5	64.5	50.0	40.0
40°	310.4	272.9	236.7	188.9	159.2	145.8	128.3	104.0	76.9	60.0	47.7
37.5°	402.4	355.8	315.6	254.7	204.0	182.5	157.0	125.7	93.0	72.6	55.6
35°	458.0	431.1	385.4	318.3	261.8	222.0	187.6	150.2	113.2	85.4	63.7
32.5°	505.8	489.8	443.2	379.1	316.2	264.3	222.9	175.8	133.0	98.5	72.0
30°	550.3	533.4	500.6	435.6	367.9	311.9	258.4	200.2	152.3	111.7	80.9
27.5°	596.9	577.2	554.6	488.2	417.6	356.5	288.5	223.6	171.1	126.2	91.8
25°	644.8	620.1	595.1	540.2	463.6	391.9	317.3	245.9	190.5	142.0	102.5
22.5°	699.3	661.4	635.4	591.5	505.3	427.8	346.2	270.5	209.4	157.2	113.2
20°	753.3	701.2	674.2	633.0	546.7	463.6	375.8	293.7	227.3	171.8	123.6
17.5°	825.8	743.2	705.0	662.2	585.7	498.1	404.8	315.5	244.0	185.8	133.8
15°	995.9	788.5	735.6	690.5	621.1	531.1	433.0	335.7	259.6	198.9	143.1
12.5°	1173.9	833.4	766.3	717.7	653.0	562.4	460.1	354.5	274.0	210.9	151.3
10°	1353.4	877.3	796.6	743.6	681.7	591.7	485.6	373.7	289.7	221.8	158.8
7.5°	1527.5	919.6	826.1	768.1	707.4	617.1	509.7	396.2	305.1	231.9	165.6
5°	1676.6	957.0	855.8	794.5	731.1	637.8	530.8	417.2	319.6	241.1	171.6
2.5°	1748.6	986.9	884.5	819.9	752.5	655.6	548.9	436.6	332.9	249.4	176.9
0°	1789.8	1012.7	911.1	843.6	771.4	670.7	564.3	454.1	344.9	256.5	181.5
-2.5°	1786.8	1037.2	936.6	868.5	798.4	691.2	576.9	463.9	354.1	264.9	187.7
-5°	1754.7	1058.1	959.9	891.6	822.1	708.5	586.8	471.4	361.7	272.0	193.1
-7.5°	1731.8	1082.1	982.8	913.3	842.2	722.0	593.9	476.7	367.7	277.7	197.6
-10°	1682.5	1105.7	1005.9	933.6	854.4	730.9	598.7	479.8	372.1	282.0	201.2
-12.5°	1595.4	1124.4	1026.1	951.3	862.2	735.9	604.1	483.1	375.1	284.8	203.8
-15°	1469.0	1137.6	1043.1	966.2	866.4	737.6	606.4	484.9	377.7	286.5	205.4
-17.5°	1302.0	1145.3	1056.7	978.1	866.7	736.0	605.3	484.1	378.5	287.0	206.6
-20°	1275.1	1154.9	1067.0	986.9	863.3	731.1	600.9	480.7	377.4	286.0	207.2



REPORT NUMBER: P731405 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1276.4	1167.0	1078.4	982.0	855.2	723.0	593.1	474.5	374.2	283.5	206.6
-25°	1272.6	1175.2	1088.4	976.7	842.9	711.6	582.9	465.5	369.2	279.4	204.9
-27.5°	1273.5	1180.6	1096.5	966.6	830.7	696.1	570.6	458.0	362.4	273.7	202.0
-30°	1273.8	1186.3	1085.2	950.9	813.6	678.9	555.1	448.2	354.6	268.3	197.9
-32.5°	1266.4	1190.1	1064.2	927.7	791.2	657.9	537.6	436.2	344.8	262.7	195.7
-35°	1260.1	1167.4	1037.6	899.1	763.7	636.2	520.0	421.9	333.3	255.6	193.5
-37.5°	1248.5	1126.6	1000.7	864.8	731.6	610.9	502.9	407.1	320.0	246.9	190.6
-40°	1199.1	1078.2	952.7	824.8	698.8	582.1	482.7	390.2	307.6	236.8	186.8
-42.5°	1144.0	1021.2	899.3	778.7	663.4	556.3	459.6	370.6	294.2	229.5	182.2
-45°	1077.4	959.1	841.2	731.6	625.5	527.4	434.7	349.0	279.0	223.3	178.2
-47.5°	1005.6	891.5	783.1	680.9	589.2	495.3	406.6	329.9	262.3	216.0	175.6
-50°	927.9	823.1	723.9	632.7	547.1	460.5	377.5	308.8	252.1	207.2	172.5
-52.5°	848.1	754.9	666.6	583.7	502.3	422.3	351.5	286.8	240.5	200.8	168.8
-55°	767.5	689.6	610.2	531.5	454.6	388.0	323.4	272.1	227.8	195.3	164.7
-57.5°	693.1	624.6	549.9	476.0	410.9	352.4	300.7	256.0	219.3	189.2	161.1
-60°	618.2	553.6	486.1	425.5	369.0	321.4	280.6	241.4	211.6	182.9	156.9
-62.5°	539.0	482.1	430.3	376.7	333.9	296.6	261.1	231.9	203.4	177.1	152.0
-65°	466.9	420.9	375.8	340.8	305.8	274.1	249.3	221.8	195.7	170.9	146.8
-67.5°	400.6	371.1	341.5	309.4	283.6	260.0	236.6	212.2	187.8	164.2	141.1
-70°	360.2	333.3	311.3	289.7	267.4	245.5	224.7	202.5	179.5	156.8	135.0
-72.5°	327.3	309.1	290.9	271.4	251.4	231.7	212.5	192.1	170.2	149.0	128.6
-75°	303.0	286.6	270.5	253.7	235.3	217.3	199.3	180.7	160.4	140.7	121.8
-77.5°	278.6	264.2	250.0	235.0	218.2	201.6	185.3	168.7	150.1	132.0	114.6
-80°	253.2	240.6	228.1	215.2	200.2	185.5	170.8	156.1	139.2	122.9	107.2
-82.5°	227.1	216.4	205.6	194.6	181.5	168.5	155.7	142.9	128.0	113.6	100.3
-85°	200.9	191.8	182.7	173.4	162.3	151.2	140.9	130.6	118.3	106.3	94.7
-87.5°	178.8	171.6	164.4	157.2	147.9	138.6	129.4	120.0	109.5	99.1	88.8
-90°	2.9	2.9	2.9	2.9	3.1	3.4	3.6	3.8	3.8	3.8	3.8



REPORT NUMBER: P731405 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	74.1	61.7	49.4	37.0	24.7	15.2	5.7
87.5°	3.8	3.9	4.0	4.0	4.0	4.9	5.7
85°	3.8	4.0	4.1	4.2	4.1	5.1	5.7
82.5°	3.8	4.1	4.3	4.4	4.3	5.3	5.7
80°	3.9	4.2	4.5	4.6	4.5	5.4	5.7
77.5°	4.4	4.5	4.7	4.7	4.7	5.6	5.7
75°	5.0	5.2	4.9	4.9	4.9	5.8	5.7
72.5°	5.6	5.9	5.6	5.1	5.1	6.0	5.7
70°	6.3	6.6	6.3	5.4	5.4	6.1	5.7
67.5°	7.6	7.3	7.0	6.1	5.6	6.3	5.7
65°	8.9	8.4	7.8	6.7	5.9	6.5	5.7
62.5°	10.3	9.8	8.5	7.3	6.2	6.7	5.7
60°	11.8	11.2	9.3	8.0	6.5	6.9	5.7
57.5°	14.1	12.7	10.6	8.6	7.1	7.1	5.7
55°	16.7	14.3	12.0	9.3	7.8	7.3	5.7
52.5°	19.4	16.1	13.3	9.9	8.4	7.5	5.7
50°	22.2	18.6	14.8	10.6	9.2	7.7	5.7
47.5°	25.3	21.2	16.2	11.3	9.9	7.9	5.7
45°	29.3	23.8	17.7	12.4	10.6	8.1	5.7
42.5°	33.5	26.6	19.1	13.5	11.4	8.3	5.7
40°	37.8	29.4	21.0	15.0	12.2	8.5	5.7
37.5°	42.3	32.2	23.2	16.7	13.0	8.7	5.7
35°	47.0	35.6	25.4	18.4	13.8	8.9	5.7
32.5°	52.3	39.3	27.5	20.1	14.7	9.1	5.7
30°	59.0	43.0	29.7	21.9	15.5	9.3	5.7
27.5°	65.6	46.7	32.8	23.7	16.3	9.5	5.7
25°	72.2	50.4	35.9	25.5	17.2	9.7	5.7
22.5°	78.6	54.3	39.0	27.3	18.0	9.9	5.7
20°	85.0	58.8	42.1	29.0	18.8	10.1	5.7
17.5°	91.3	63.2	45.2	30.8	19.7	10.3	5.7
15°	97.5	67.4	48.1	32.5	20.5	10.5	5.7
12.5°	103.3	71.4	51.0	34.2	21.3	10.7	5.7
10°	108.7	75.2	53.8	35.9	22.0	10.8	5.7
7.5°	113.8	78.8	56.5	37.5	22.7	11.0	5.7
5°	118.4	82.2	59.0	39.0	23.4	11.1	5.7
2.5°	122.6	85.4	61.4	40.4	24.1	11.3	5.7
0°	126.4	88.4	63.7	41.8	24.7	11.4	5.7
-2.5°	130.9	92.1	66.5	44.0	26.0	12.0	5.7
-5°	134.9	95.5	69.2	46.1	27.3	12.5	5.7
-7.5°	138.4	98.6	71.7	48.1	28.6	13.0	5.7
-10°	141.5	101.5	74.0	49.9	29.7	13.5	5.7
-12.5°	144.1	104.2	76.2	51.7	30.8	14.0	5.7
-15°	146.2	106.5	78.1	53.3	31.8	14.5	5.7
-17.5°	147.7	108.5	79.9	54.7	32.8	15.0	5.7
-20°	149.1	110.2	81.5	56.1	33.6	15.4	5.7



REPORT NUMBER: P731405 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	150.3	111.7	82.8	57.2	34.4	15.8	5.7
-25°	151.0	113.0	84.0	58.2	35.0	16.2	5.7
-27.5°	150.9	114.2	85.0	59.1	35.6	16.5	5.7
-30°	150.3	114.9	85.9	59.8	36.1	16.8	5.7
-32.5°	149.0	115.3	86.6	60.3	36.5	17.1	5.7
-35°	148.5	115.4	87.0	60.7	36.7	17.4	5.7
-37.5°	148.2	115.3	87.2	60.9	36.9	17.6	5.7
-40°	147.4	115.3	87.1	60.9	37.0	17.8	5.7
-42.5°	146.2	114.9	86.9	60.8	36.9	18.0	5.7
-45°	144.5	114.2	86.4	60.4	36.8	18.1	5.7
-47.5°	142.3	113.2	85.7	59.9	36.5	18.2	5.7
-50°	140.5	111.9	84.8	59.3	36.1	18.3	5.7
-52.5°	138.4	110.2	83.6	58.6	35.7	18.3	5.7
-55°	135.9	108.3	82.2	57.6	35.1	18.3	5.7
-57.5°	133.1	106.1	80.5	56.6	34.4	18.3	5.7
-60°	129.8	103.6	78.7	55.3	33.7	18.2	5.7
-62.5°	126.2	100.8	76.6	53.9	33.3	18.1	5.7
-65°	122.2	97.7	74.4	52.4	32.9	18.0	5.7
-67.5°	117.9	94.3	72.0	50.7	32.4	17.8	5.7
-70°	113.2	90.8	69.3	48.9	31.8	17.7	5.7
-72.5°	108.3	86.9	66.5	47.6	31.1	17.4	5.7
-75°	103.1	82.9	63.5	46.4	30.3	17.2	5.7
-77.5°	97.5	78.6	61.3	45.1	29.5	16.9	5.7
-80°	91.8	75.1	59.1	43.6	28.7	16.6	5.7
-82.5°	87.5	72.0	56.9	42.1	27.8	16.3	5.7
-85°	83.2	68.7	54.5	40.5	26.8	16.0	5.7
-87.5°	78.7	65.3	52.0	38.8	25.8	15.6	5.7
-90°	3.8	3.8	3.8	3.8	3.8	4.8	5.7

(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

