

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: P731309 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-70-1S-VHE**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731309 (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-40-70-1S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 1S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

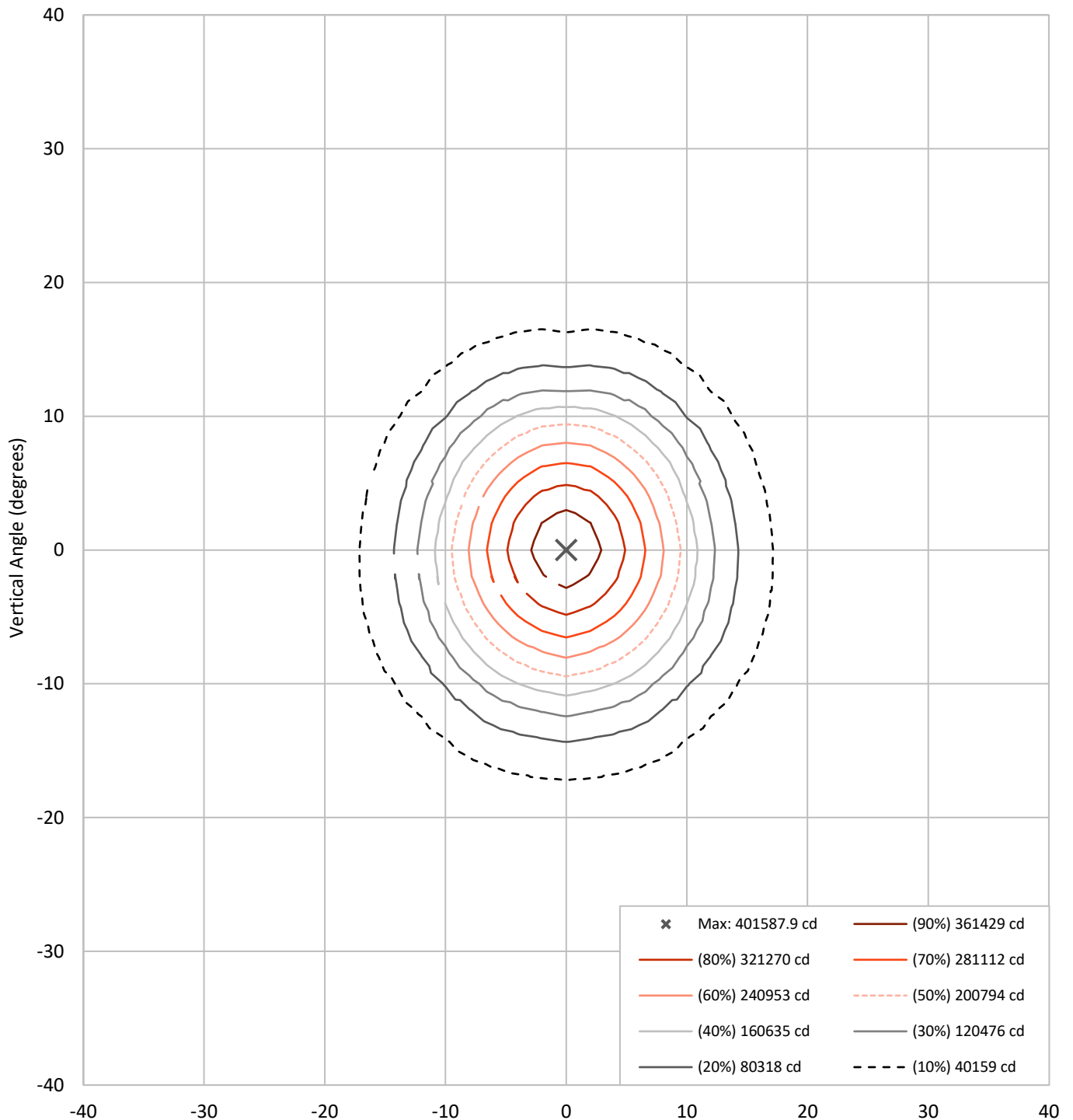
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	52933.1 lumens	Max Intensity:	401587.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	154.2 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:	23464.4 lumens	Field Lumens:	42736.7 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





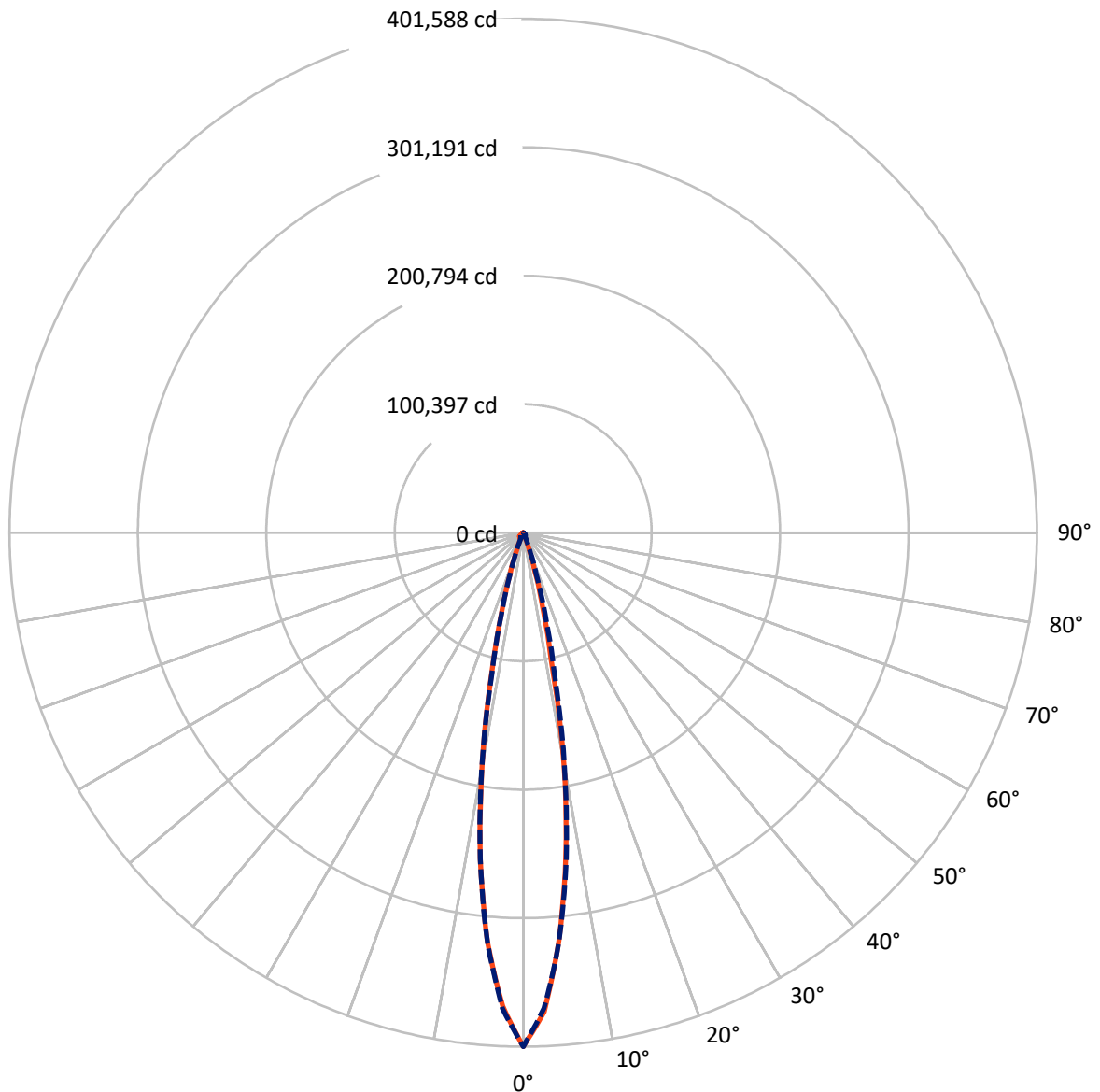
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Lumen Table

90	0.2	0.7	1.3	1.8	2.0	1.8	1.3	0.7	0.2										
80	0.2	0.7	1.3	1.8	2.0	1.8	1.3	0.7	0.2										
70	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			
60		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				
50	0.7	0.9	2.0	3.8	6.0	10.3	15.7	17.4	17.4	15.7	10.3	6.0	3.8	2.0	0.9	0.7			
40		2.0	5.7	10.3	21.7	35.4	39.7	41.6	41.6	39.7	35.4	21.7	10.3	5.7	2.0				
30	1.7	3.4	9.3	19.1	45.6	48.3	58.6	97.1	97.1	58.6	48.3	45.6	19.1	9.3	3.4	1.7			
20		4.6	12.0	34.1	60.3	71.2	443.6	1767.6	1767.6	443.6	71.2	60.3	34.1	12.0	4.6				
10	2.6	5.7	14.1	45.1	67.3	132.9	1792.2	7456.5	7456.5	1792.2	132.9	67.3	45.1	14.1	5.7	2.6			
0		6.3	15.7	48.2	74.9	148.6	1884.2	7420.6	7420.6	1884.2	148.6	74.9	48.2	15.7	6.3				
-10	3.0	6.6	16.9	47.6	82.9	102.2	523.1	1915.2	1915.2	523.1	102.2	82.9	47.6	16.9	6.6	3.0			
-20		6.4	17.1	36.8	84.5	103.5	112.9	175.3	175.3	112.9	103.5	84.5	36.8	17.1	6.4				
-30	2.8	5.7	15.9	29.4	61.9	104.0	116.8	118.2	118.2	116.8	104.0	61.9	29.4	15.9	5.7	2.8			
-40		4.8	13.1	25.7	38.3	57.9	85.9	107.1	107.1	85.9	57.9	38.3	25.7	13.1	4.8				
-50	2.4	3.7	9.5	18.7	29.8	38.9	45.3	49.4	49.4	45.3	38.9	29.8	18.7	9.5	3.7	2.4			
-60		2.9	6.2	11.4	18.0	24.2	29.5	33.1	33.1	29.5	24.2	18.0	11.4	6.2	2.9				
-70	1.6	11.2	26.7	41.9	50.0	41.9	26.7	11.2	1.6							1.6			
-80		11.2	26.7	41.9	50.0	41.9	26.7	11.2	1.6										
-90	1.6	11.2	26.7	41.9	50.0	41.9	26.7	11.2	1.6										

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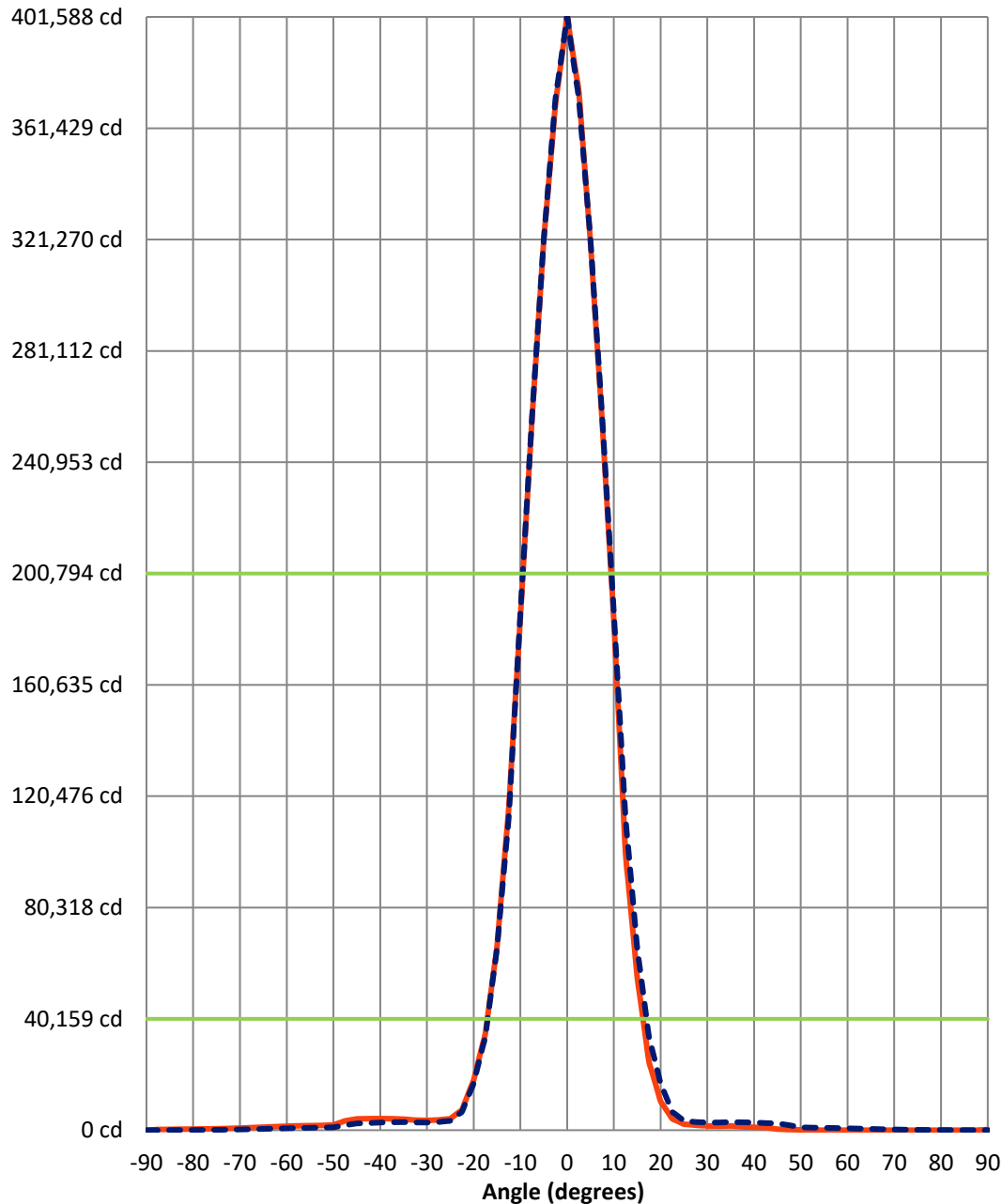
Luminous Intensity Polar Plot



— 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: 23464.4
 Efficiency: 44.3%

Field:
 H Angle: 34°
 V Angle: 33.3°
 Lumens: 42736.7
 Efficiency: 80.7%

Spill:
 Lumens: 10196.4
 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°	5.8	15.3	24.9	37.4	49.8	62.3	74.8	83.7	92.5	101.4	110.2
87.5°	5.8	5.0	4.0	4.0	4.0	3.9	3.8	3.8	3.8	3.8	3.8
85°	5.8	5.1	4.2	4.2	4.1	4.0	3.8	3.8	3.8	3.8	3.8
82.5°	5.8	5.3	4.3	4.4	4.3	4.1	3.8	3.8	3.8	3.9	3.8
80°	5.8	5.5	4.5	4.6	4.5	4.3	3.9	4.1	4.2	4.1	3.8
77.5°	5.8	5.7	4.7	4.8	4.7	4.6	4.5	4.6	4.6	4.3	4.0
75°	5.8	5.8	5.0	5.0	5.0	5.3	5.1	5.1	5.0	5.0	4.6
72.5°	5.8	6.0	5.2	5.2	5.7	6.0	5.7	5.7	5.9	5.8	5.2
70°	5.8	6.2	5.4	5.5	6.4	6.7	6.4	6.7	6.9	6.6	6.3
67.5°	5.8	6.4	5.7	6.1	7.1	7.4	7.7	7.8	7.9	8.2	7.6
65°	5.8	6.6	6.0	6.8	7.8	8.5	9.0	8.9	9.7	9.8	9.3
62.5°	5.8	6.8	6.3	7.4	8.6	9.9	10.4	10.5	11.6	11.8	11.8
60°	5.8	7.0	6.6	8.1	9.4	11.3	11.9	12.5	13.6	14.6	14.5
57.5°	5.8	7.2	7.2	8.7	10.7	12.8	14.2	14.6	16.3	17.5	19.1
55°	5.8	7.4	7.9	9.4	12.1	14.4	16.8	17.3	19.3	21.3	25.1
52.5°	5.8	7.6	8.6	10.0	13.4	16.2	19.5	20.9	22.5	27.8	31.6
50°	5.8	7.8	9.3	10.7	14.9	18.7	22.4	24.9	26.7	34.6	42.0
47.5°	5.8	8.0	10.0	11.4	16.3	21.3	25.5	29.2	33.4	41.9	53.6
45°	5.8	8.2	10.7	12.5	17.8	24.0	29.6	33.8	41.7	53.2	65.9
42.5°	5.8	8.4	11.5	13.6	19.2	26.8	33.8	40.3	50.4	65.0	84.3
40°	5.8	8.6	12.3	15.1	21.1	29.6	38.2	48.1	60.5	77.6	104.9
37.5°	5.8	8.8	13.1	16.8	23.3	32.5	42.7	56.1	73.2	93.8	126.9
35°	5.8	9.0	13.9	18.5	25.5	35.9	47.4	64.3	86.1	114.2	151.6
32.5°	5.8	9.2	14.8	20.3	27.7	39.6	52.8	72.5	99.3	134.1	177.4
30°	5.8	9.4	15.6	22.1	29.9	43.4	59.5	81.5	112.7	153.6	202.1
27.5°	5.8	9.6	16.5	23.9	33.0	47.1	66.2	92.5	127.2	172.6	225.6
25°	5.8	9.8	17.3	25.7	36.2	50.8	72.8	103.4	143.2	192.2	248.1
22.5°	5.8	10.0	18.2	27.5	39.3	54.8	79.3	114.1	158.6	211.3	272.9
20°	5.8	10.2	19.0	29.3	42.4	59.3	85.7	124.6	173.4	229.3	296.3
17.5°	5.8	10.4	19.8	31.1	45.5	63.7	92.1	134.9	187.4	246.2	318.3
15°	5.8	10.6	20.6	32.8	48.5	67.9	98.3	144.3	200.7	261.9	338.8
12.5°	5.8	10.8	21.4	34.5	51.4	72.0	104.2	152.6	212.8	276.4	357.7
10°	5.8	10.9	22.2	36.2	54.2	75.8	109.6	160.1	223.8	292.3	377.1
7.5°	5.8	11.1	22.9	37.8	56.9	79.5	114.7	167.0	234.0	307.8	399.8
5°	5.8	11.2	23.6	39.4	59.5	82.9	119.4	173.1	243.3	322.4	421.0
2.5°	5.8	11.4	24.3	40.8	61.9	86.1	123.7	178.5	251.6	335.9	440.6
0°	5.8	11.5	24.9	42.2	64.2	89.1	127.5	183.1	258.8	348.0	458.2
-2.5°	5.8	12.1	26.3	44.4	67.1	92.8	132.0	189.4	267.3	357.3	468.0
-5°	5.8	12.6	27.6	46.5	69.8	96.3	136.1	194.8	274.4	365.0	475.6
-7.5°	5.8	13.1	28.8	48.5	72.3	99.5	139.7	199.4	280.2	371.0	481.0
-10°	5.8	13.7	30.0	50.4	74.7	102.4	142.8	203.0	284.6	375.4	484.1
-12.5°	5.8	14.2	31.1	52.2	76.8	105.0	145.4	205.6	287.4	378.4	487.4
-15°	5.8	14.6	32.1	53.8	78.8	107.4	147.5	207.3	289.1	381.1	489.3
-17.5°	5.8	15.1	33.0	55.3	80.6	109.5	149.1	208.5	289.6	381.9	488.5
-20°	5.8	15.5	33.9	56.6	82.2	111.2	150.4	209.1	288.6	380.8	485.0



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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°	5.8	15.9	34.7	57.8	83.6	112.7	151.7	208.5	286.0	377.6	478.7
-25°	5.8	16.3	35.3	58.8	84.8	114.1	152.3	206.8	281.9	372.5	469.7
-27.5°	5.8	16.7	35.9	59.6	85.8	115.2	152.3	203.8	276.1	365.7	462.1
-30°	5.8	17.0	36.4	60.3	86.7	116.0	151.6	199.7	270.8	357.8	452.3
-32.5°	5.8	17.3	36.8	60.9	87.4	116.4	150.3	197.4	265.1	347.9	440.1
-35°	5.8	17.5	37.0	61.3	87.8	116.4	149.8	195.3	257.9	336.3	425.7
-37.5°	5.8	17.8	37.2	61.5	88.0	116.3	149.5	192.3	249.1	322.8	410.7
-40°	5.8	18.0	37.3	61.5	87.9	116.3	148.7	188.5	238.9	310.4	393.7
-42.5°	5.8	18.1	37.2	61.3	87.7	116.0	147.5	183.8	231.6	296.9	373.9
-45°	5.8	18.3	37.1	61.0	87.2	115.3	145.8	179.8	225.3	281.5	352.2
-47.5°	5.8	18.4	36.8	60.5	86.5	114.2	143.6	177.2	217.9	264.6	332.9
-50°	5.8	18.5	36.4	59.9	85.6	112.9	141.7	174.0	209.0	254.3	311.6
-52.5°	5.8	18.5	36.0	59.1	84.4	111.2	139.6	170.3	202.6	242.7	289.4
-55°	5.8	18.5	35.4	58.2	82.9	109.3	137.1	166.1	197.0	229.8	274.5
-57.5°	5.8	18.5	34.7	57.1	81.3	107.1	134.2	162.6	190.9	221.2	258.2
-60°	5.8	18.4	33.9	55.8	79.4	104.5	130.9	158.2	184.5	213.5	243.5
-62.5°	5.8	18.3	33.6	54.4	77.3	101.7	127.3	153.3	178.7	205.2	234.0
-65°	5.8	18.2	33.1	52.8	75.1	98.6	123.3	148.1	172.4	197.4	223.8
-67.5°	5.8	18.0	32.6	51.1	72.6	95.2	119.0	142.3	165.6	189.5	214.1
-70°	5.8	17.8	32.0	49.3	69.9	91.6	114.3	136.2	158.2	181.0	204.3
-72.5°	5.8	17.6	31.3	48.0	67.1	87.7	109.3	129.7	150.3	171.7	193.9
-75°	5.8	17.3	30.6	46.8	64.0	83.6	104.0	122.9	142.0	161.8	182.3
-77.5°	5.8	17.1	29.8	45.4	61.8	79.3	98.4	115.7	133.2	151.4	170.2
-80°	5.8	16.8	28.9	44.0	59.7	75.8	92.6	108.1	124.0	140.5	157.4
-82.5°	5.8	16.5	28.0	42.5	57.4	72.6	88.2	101.2	114.6	129.2	144.2
-85°	5.8	16.1	27.0	40.9	55.0	69.3	83.9	95.5	107.3	119.4	131.7
-87.5°	5.8	15.7	26.0	39.2	52.5	65.9	79.4	89.6	100.0	110.4	121.1
-90°	5.8	4.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8



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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°	118.6	127.0	135.4	143.8	150.0	156.3	162.5	168.7	174.0	179.3	184.5
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	5.6	6.3	7.0	8.2	9.8
67.5°	6.8	7.0	6.8	6.3	6.2	7.2	8.1	11.1	14.5	16.3	17.0
65°	8.5	8.6	9.1	9.2	8.6	11.3	14.8	18.8	22.5	23.3	22.7
62.5°	10.5	11.6	12.4	13.2	14.2	16.9	20.9	24.9	29.0	27.8	24.0
60°	14.6	15.2	17.4	19.7	20.5	21.9	26.3	28.5	29.8	29.1	22.6
57.5°	19.6	20.7	24.4	27.0	27.8	26.2	27.8	29.2	29.1	25.6	19.6
55°	26.6	28.0	32.6	35.9	35.8	29.5	29.1	30.5	28.3	24.9	19.3
52.5°	36.7	37.4	42.6	46.2	44.9	38.4	33.8	35.9	35.6	31.1	26.4
50°	47.7	52.0	53.9	59.0	58.7	53.4	44.6	49.0	56.7	55.3	48.6
47.5°	63.4	69.0	69.2	75.4	78.2	82.8	75.3	84.7	96.1	119.5	112.0
45°	82.3	91.5	92.2	97.9	112.4	129.8	136.8	136.2	194.1	214.9	230.2
42.5°	103.1	117.8	124.0	123.6	170.1	196.6	211.6	259.4	303.4	316.7	323.9
40°	129.5	147.2	160.6	190.6	238.8	275.4	313.2	364.2	388.2	390.6	390.7
37.5°	158.4	184.1	205.8	256.9	318.4	359.0	406.0	427.9	444.6	445.5	464.4
35°	189.4	224.0	264.1	321.1	388.9	434.9	462.1	481.9	491.0	511.9	603.6
32.5°	224.9	266.6	319.0	382.5	447.2	494.1	510.3	527.5	549.6	611.5	880.6
30°	260.7	314.7	371.2	439.5	505.1	538.1	555.2	576.8	611.5	853.0	1225.8
27.5°	291.1	359.7	421.3	492.6	559.5	582.4	602.3	634.5	781.9	1120.7	1638.8
25°	320.2	395.5	467.7	545.0	600.4	625.7	650.6	694.3	982.1	1519.1	1872.7
22.5°	349.3	431.6	509.8	596.8	641.1	667.3	705.6	868.9	1271.5	1917.0	2083.3
20°	379.2	467.7	551.6	638.7	680.2	707.5	760.1	1066.6	1625.1	2086.9	2240.9
17.5°	408.5	502.5	590.9	668.2	711.3	749.9	833.1	1265.5	1943.5	2254.4	2361.6
15°	436.9	535.8	626.6	696.7	742.2	795.6	1004.8	1530.0	2150.0	2404.8	2506.6
12.5°	464.2	567.4	658.9	724.1	773.2	840.9	1184.4	1791.6	2288.3	2523.3	2620.7
10°	489.9	597.0	687.9	750.3	803.7	885.2	1365.6	2012.3	2402.4	2603.3	2677.7
7.5°	514.3	622.6	713.8	775.0	833.6	927.8	1541.2	2194.5	2492.4	2671.3	2717.0
5°	535.6	643.5	737.7	801.6	863.5	965.6	1691.7	2340.2	2562.2	2727.8	2757.6
2.5°	553.9	661.5	759.3	827.3	892.4	995.7	1764.4	2399.4	2571.1	2752.7	2799.8
0°	569.4	676.7	778.4	851.2	919.3	1021.8	1805.9	2430.0	2560.3	2759.7	2844.1
-2.5°	582.1	697.4	805.6	876.3	945.0	1046.5	1802.9	2453.7	2587.3	2823.2	3014.1
-5°	592.1	714.8	829.5	899.7	968.5	1067.7	1770.6	2446.9	2624.0	2879.4	3118.9
-7.5°	599.3	728.4	849.8	921.6	991.6	1091.8	1747.4	2476.2	2731.0	2946.0	3161.4
-10°	604.1	737.5	862.1	942.0	1015.0	1115.7	1697.6	2463.9	2831.0	3012.8	3202.1
-12.5°	609.6	742.5	870.0	959.9	1035.3	1134.5	1609.8	2405.1	2923.5	3084.9	3242.0
-15°	611.8	744.2	874.2	974.9	1052.4	1147.9	1482.2	2296.1	2985.4	3124.1	3267.5
-17.5°	610.8	742.6	874.5	986.9	1066.2	1155.6	1313.7	2094.3	2888.2	3139.5	3291.2
-20°	606.3	737.7	871.1	995.7	1076.5	1165.2	1286.6	1862.3	2622.8	3127.9	3308.3



REPORT NUMBER: P731309 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	598.4	729.5	863.0	990.8	1088.0	1177.5	1287.9	1621.7	2309.6	3089.0	3309.6
-25°	588.1	717.9	850.4	985.4	1098.2	1185.8	1284.0	1411.6	1999.5	2752.0	3276.5
-27.5°	575.7	702.3	838.1	975.3	1106.3	1191.2	1285.0	1401.7	1726.0	2362.7	3150.5
-30°	560.1	684.9	820.9	959.5	1094.9	1196.9	1285.2	1378.6	1498.3	2011.6	2690.6
-32.5°	542.5	663.7	798.3	936.1	1073.8	1200.8	1277.8	1362.3	1465.3	1649.6	2229.6
-35°	524.7	641.9	770.6	907.1	1047.0	1177.9	1271.4	1347.1	1431.5	1543.6	1808.4
-37.5°	507.4	616.4	738.1	872.5	1009.7	1136.7	1259.7	1334.5	1411.8	1490.7	1600.8
-40°	487.0	587.3	705.1	832.2	961.2	1087.9	1209.9	1321.6	1392.7	1461.1	1532.4
-42.5°	463.7	561.3	669.3	785.6	907.3	1030.4	1154.4	1271.7	1371.5	1432.7	1497.8
-45°	438.6	532.0	631.0	738.1	848.7	967.6	1087.1	1206.8	1313.4	1408.8	1467.0
-47.5°	410.3	499.7	594.4	687.0	790.1	899.5	1014.6	1127.2	1237.1	1338.4	1437.5
-50°	380.9	464.6	551.9	638.4	730.4	830.4	936.2	1042.9	1148.3	1251.4	1348.8
-52.5°	354.7	426.2	506.8	588.9	672.6	761.7	855.7	952.3	1053.3	1153.5	1244.1
-55°	326.3	391.5	458.8	536.2	615.7	695.8	774.4	861.4	951.6	1046.1	1130.6
-57.5°	303.3	355.6	414.6	480.3	554.8	630.2	699.4	769.3	849.6	933.4	1006.9
-60°	283.1	324.3	372.3	429.3	490.5	558.6	623.7	688.4	753.1	817.1	886.5
-62.5°	263.4	299.2	336.9	380.1	434.2	486.5	543.9	603.6	663.4	720.7	776.2
-65°	251.5	276.5	308.5	343.8	379.2	424.7	471.2	517.1	569.8	621.6	672.4
-67.5°	238.7	262.2	286.1	312.1	344.5	374.4	404.2	445.7	486.8	525.7	565.6
-70°	226.6	247.6	269.8	292.3	314.1	336.2	363.4	390.3	416.8	445.4	479.7
-72.5°	214.4	233.8	253.6	273.9	293.5	311.8	330.2	348.6	370.2	393.5	416.2
-75°	201.1	219.3	237.5	255.9	273.0	289.2	305.7	322.4	338.7	355.0	371.3
-77.5°	187.0	203.4	220.2	237.2	252.2	266.5	281.0	295.7	310.0	324.2	338.3
-80°	172.4	187.1	202.0	217.1	230.1	242.8	255.5	268.3	280.9	293.4	305.8
-82.5°	157.1	170.0	183.1	196.3	207.4	218.3	229.1	240.0	250.6	261.3	271.9
-85°	142.2	152.6	163.7	174.9	184.3	193.5	202.7	211.9	220.8	229.6	238.4
-87.5°	130.5	139.9	149.2	158.6	165.9	173.1	180.4	187.6	194.4	201.2	208.0
-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°	189.8	193.4	197.0	200.6	204.2	207.3	210.4	213.5	216.6	218.5	220.5
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	6.5	6.6	6.6	6.7	6.7
70°	10.8	11.1	11.4	11.3	10.6	10.1	9.8	9.5	9.2	9.5	10.0
67.5°	16.4	15.3	14.7	13.9	12.4	11.0	10.3	9.5	8.6	8.2	8.1
65°	20.4	16.1	14.0	12.4	11.1	9.7	8.4	7.2	6.2	5.5	5.3
62.5°	19.3	13.8	10.9	9.2	7.6	6.3	5.2	4.4	3.8	3.5	3.5
60°	16.5	10.8	7.6	6.1	4.6	3.1	2.9	2.7	2.5	2.3	2.4
57.5°	14.8	9.7	6.0	5.8	5.0	3.6	3.1	3.1	2.7	1.9	2.2
55°	16.4	13.9	9.7	9.9	9.7	8.1	6.9	8.3	8.0	6.2	6.8
52.5°	24.7	28.3	23.1	21.4	29.3	29.0	22.7	31.0	35.6	34.8	35.5
50°	58.1	65.6	73.5	67.4	82.7	91.8	89.9	100.7	111.7	111.5	115.0
47.5°	137.6	158.4	160.6	164.8	182.3	204.6	222.7	235.4	241.9	239.2	241.1
45°	246.3	250.9	261.7	285.5	315.3	351.2	378.5	394.4	447.8	485.8	508.0
42.5°	326.4	341.0	367.3	430.2	476.2	582.1	710.1	759.8	822.7	854.6	856.6
40°	406.7	443.8	552.8	667.2	915.8	1100.7	1111.7	1190.1	1226.2	1186.5	1180.5
37.5°	539.5	677.4	864.5	1129.1	1244.7	1294.9	1322.6	1332.6	1339.9	1333.2	1329.8
35°	801.1	1041.0	1224.7	1310.9	1363.2	1364.8	1371.3	1370.4	1361.8	1357.3	1347.8
32.5°	1187.0	1415.8	1421.4	1414.7	1425.6	1419.4	1407.4	1401.8	1383.3	1372.1	1375.9
30°	1584.9	1586.2	1563.6	1511.1	1484.9	1476.9	1459.6	1445.3	1427.7	1430.3	1491.5
27.5°	1742.7	1723.4	1691.8	1646.6	1558.7	1541.5	1527.6	1521.5	1595.1	1662.3	1722.3
25°	1919.4	1869.3	1851.9	1812.5	1722.1	1622.1	1666.1	1735.2	1831.4	1931.6	2028.2
22.5°	2072.2	2036.0	2024.8	2010.2	1862.7	1819.6	1879.9	1993.7	2125.0	2299.1	2796.0
20°	2222.7	2183.6	2170.8	2097.2	2019.9	2030.5	2142.7	2341.1	2708.6	4029.0	5641.5
17.5°	2349.3	2308.8	2265.0	2179.2	2154.6	2262.2	2486.5	3183.7	4918.2	9252.2	13657.2
15°	2467.2	2414.0	2339.6	2283.3	2329.9	2530.3	3086.0	5461.4	11079.6	18354.3	27526.4
12.5°	2572.0	2490.6	2386.5	2357.3	2499.0	2836.5	5016.0	10716.6	19310.6	29674.3	51207.1
10°	2644.9	2539.4	2448.7	2499.1	2724.4	3630.4	7218.1	16066.7	28780.6	51960.5	78768.1
7.5°	2676.3	2580.8	2527.9	2636.2	2937.1	4662.3	10866.2	22220.3	40649.4	71818.3	114590.5
5°	2711.8	2645.9	2616.4	2772.1	3142.0	5503.1	13489.7	27398.8	53341.6	90468.9	145548.8
2.5°	2783.5	2720.8	2700.2	2891.3	3321.3	6286.9	15539.9	31424.8	61750.4	106031.8	173021.5
0°	2910.2	2779.8	2763.5	2950.5	3393.3	6643.8	16885.1	33852.7	65749.9	112690.8	186538.6
-2.5°	3010.8	2855.5	2824.5	2991.2	3425.1	6469.0	16748.7	33769.0	64118.1	110465.2	177954.7
-5°	3098.6	2942.8	2900.0	3054.8	3494.7	6462.5	15861.3	30984.9	57374.0	97067.6	149972.9
-7.5°	3176.7	3042.0	2978.6	3101.8	3503.9	5787.3	12829.2	25510.3	45860.5	75785.0	116077.4
-10°	3259.0	3155.6	3069.2	3151.6	3465.0	4604.7	8582.6	18388.9	32659.9	54958.4	82606.4
-12.5°	3353.2	3301.0	3174.0	3186.0	3412.3	3885.7	6343.4	12838.1	22674.6	34620.2	54661.3
-15°	3433.0	3430.6	3324.4	3290.5	3403.0	3706.6	4425.7	7129.4	13754.4	22254.6	32168.5
-17.5°	3449.7	3534.6	3493.9	3390.6	3397.2	3567.4	3863.8	4724.5	6909.0	12245.0	18143.7
-20°	3460.4	3641.9	3646.1	3562.3	3488.7	3469.7	3605.2	3856.3	4344.4	6147.6	8521.1



REPORT NUMBER: P731309 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3476.8	3649.3	3772.0	3748.8	3604.5	3520.1	3489.7	3584.8	3750.0	3982.7	4752.8
-25°	3484.6	3645.6	3821.2	3869.4	3808.8	3654.4	3538.8	3474.4	3532.8	3606.6	3757.3
-27.5°	3451.3	3639.8	3810.1	3952.8	3970.2	3869.2	3699.3	3561.6	3508.0	3457.3	3519.3
-30°	3396.1	3606.6	3784.7	3960.3	4030.5	3998.2	3909.3	3797.5	3666.9	3565.4	3529.8
-32.5°	2944.0	3557.0	3739.4	3891.6	4007.4	4040.5	4041.5	3981.6	3925.8	3847.5	3755.8
-35°	2425.5	3105.5	3699.0	3775.6	3881.8	3991.5	4073.0	4075.8	4069.2	4032.1	3993.5
-37.5°	1885.4	2519.1	3089.9	3546.8	3707.5	3836.6	3976.1	4070.4	4129.6	4118.9	4111.8
-40°	1641.5	1841.2	2375.2	2841.0	3231.7	3599.3	3750.5	3919.9	4056.1	4103.6	4135.5
-42.5°	1566.2	1651.6	1738.5	2091.5	2494.0	2848.1	3181.1	3498.6	3782.2	3942.8	4054.6
-45°	1524.9	1572.4	1625.6	1704.2	1772.2	2065.4	2363.7	2653.5	3007.2	3332.8	3615.2
-47.5°	1486.6	1523.8	1565.0	1605.4	1643.1	1696.4	1742.5	1824.8	2089.8	2356.9	2625.0
-50°	1425.1	1486.5	1520.7	1550.9	1577.5	1602.2	1623.6	1660.7	1704.8	1743.1	1781.9
-52.5°	1322.1	1391.3	1457.0	1506.7	1527.7	1548.2	1569.2	1597.3	1623.4	1647.2	1665.5
-55°	1206.7	1276.8	1343.0	1393.4	1438.7	1480.3	1517.5	1542.4	1566.7	1590.1	1607.9
-57.5°	1079.9	1151.3	1216.0	1264.4	1309.6	1351.6	1392.5	1431.7	1467.7	1500.1	1527.7
-60°	951.4	1011.7	1070.2	1121.3	1167.9	1210.0	1250.4	1289.1	1324.4	1356.2	1383.9
-62.5°	830.8	886.6	932.9	974.7	1014.8	1053.6	1094.5	1132.1	1166.3	1197.6	1226.3
-65°	722.0	770.1	805.1	837.9	868.8	902.1	938.1	971.2	1001.4	1029.4	1055.3
-67.5°	610.1	651.7	682.5	710.9	737.2	763.8	792.6	819.3	844.0	867.6	889.7
-70°	512.9	542.0	563.4	585.2	608.6	632.6	657.3	679.8	700.1	719.4	737.2
-72.5°	438.2	456.1	471.1	489.7	506.4	524.3	542.7	559.7	575.3	590.4	604.6
-75°	387.7	400.8	413.0	424.5	435.2	448.0	461.3	473.8	485.6	496.6	507.1
-77.5°	352.4	362.6	371.1	379.1	386.7	396.6	407.0	417.1	426.9	435.2	442.9
-80°	318.1	326.3	333.5	340.5	347.2	355.7	364.4	372.9	381.1	388.7	395.9
-82.5°	282.5	289.2	295.3	301.2	306.9	314.2	321.4	328.4	335.1	341.4	347.4
-85°	247.1	252.1	256.9	261.6	266.1	272.0	277.9	283.6	289.2	293.3	297.1
-87.5°	214.9	218.6	222.3	225.9	229.4	233.6	237.9	242.1	246.2	248.9	251.6
-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: P731309 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	222.4	224.3	223.8	223.3	223.8	224.3	222.4	220.5	218.5	216.6	213.5
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	6.7	6.6	6.6
70°	10.7	11.3	11.5	11.5	11.5	11.3	10.7	10.0	9.5	9.2	9.5
67.5°	8.0	7.8	7.3	6.7	7.3	7.8	8.0	8.1	8.2	8.6	9.5
65°	5.1	4.9	4.8	4.8	4.8	4.9	5.1	5.3	5.5	6.2	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	7.5	7.2	6.7	7.2	7.5	7.3	6.8	6.2	8.0	8.3
52.5°	34.9	32.2	28.1	23.0	28.1	32.2	34.9	35.5	34.8	35.6	31.0
50°	121.6	124.9	122.0	113.1	122.0	124.9	121.6	115.0	111.5	111.7	100.7
47.5°	250.6	253.3	244.6	224.3	244.6	253.3	250.6	241.1	239.2	241.9	235.4
45°	524.6	520.5	475.4	381.5	475.4	520.5	524.6	508.0	485.8	447.8	394.4
42.5°	904.6	944.9	968.6	969.1	968.6	944.9	904.6	856.6	854.6	822.7	759.8
40°	1170.9	1123.6	1072.0	1064.0	1072.0	1123.6	1170.9	1180.5	1186.5	1226.2	1190.1
37.5°	1321.7	1331.6	1325.9	1214.5	1325.9	1331.6	1321.7	1329.8	1333.2	1339.9	1332.6
35°	1369.7	1444.6	1521.7	1537.5	1521.7	1444.6	1369.7	1347.8	1357.3	1361.8	1370.4
32.5°	1392.9	1418.7	1425.7	1428.3	1425.7	1418.7	1392.9	1375.9	1372.1	1383.3	1401.8
30°	1519.8	1536.5	1534.1	1530.8	1534.1	1536.5	1519.8	1491.5	1430.3	1427.7	1445.3
27.5°	1750.6	1778.4	1790.8	1799.2	1790.8	1778.4	1750.6	1722.3	1662.3	1595.1	1521.5
25°	2081.0	2123.5	2152.7	2165.4	2152.7	2123.5	2081.0	2028.2	1931.6	1831.4	1735.2
22.5°	3369.9	3664.0	3955.0	4105.5	3955.0	3664.0	3369.9	2796.0	2299.1	2125.0	1993.7
20°	8412.8	9683.3	10263.6	10433.0	10263.6	9683.3	8412.8	5641.5	4029.0	2708.6	2341.1
17.5°	19591.5	24407.9	27629.4	24806.7	27629.4	24407.9	19591.5	13657.2	9252.2	4918.2	3183.7
15°	40099.3	52297.5	59123.3	55282.4	59123.3	52297.5	40099.3	27526.4	18354.3	11079.6	5461.4
12.5°	72247.4	91284.6	104070.6	99854.2	104070.6	91284.6	72247.4	51207.1	29674.3	19310.6	10716.6
10°	113715.8	151996.6	177486.2	183787.6	177486.2	151996.6	113715.8	78768.1	51960.5	28780.6	16066.7
7.5°	165023.4	212420.2	249832.9	255623.4	249832.9	212420.2	165023.4	114590.5	71818.3	40649.4	22220.3
5°	215217.4	271163.2	310090.3	320196.1	310090.3	271163.2	215217.4	145548.8	90468.9	53341.6	27398.8
2.5°	246371.4	307263.9	354153.7	374807.5	354153.7	307263.9	246371.4	173021.5	106031.8	61750.4	31424.8
0°	257491.2	321085.7	371961.0	401587.9	371961.0	321085.7	257491.2	186538.6	112690.8	65749.9	33852.7
-2.5°	248869.8	306460.6	349408.5	370004.1	349408.5	306460.6	248869.8	177954.7	110465.2	64118.1	33769.0
-5°	211966.8	269187.4	304130.5	320907.4	304130.5	269187.4	211966.8	149972.9	97067.6	57374.0	30984.9
-7.5°	165633.2	211431.3	241605.5	256868.5	241605.5	211431.3	165633.2	116077.4	75785.0	45860.5	25510.3
-10°	115893.5	152228.3	172568.1	185022.2	172568.1	152228.3	115893.5	82606.4	54958.4	32659.9	18388.9
-12.5°	75406.0	96555.1	107946.7	115925.9	107946.7	96555.1	75406.0	54661.3	34620.2	22674.6	12838.1
-15°	45775.9	56083.1	62267.9	66144.8	62267.9	56083.1	45775.9	32168.5	22254.6	13754.4	7129.4
-17.5°	25549.4	29976.5	33111.2	34845.7	33111.2	29976.5	25549.4	18143.7	12245.0	6909.0	4724.5
-20°	12677.7	15478.2	17317.8	18090.0	17317.8	15478.2	12677.7	8521.1	6147.6	4344.4	3856.3



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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°	5850.8	6598.9	7094.2	7330.1	7094.2	6598.9	5850.8	4752.8	3982.7	3750.0	3584.8
-25°	3903.7	4021.1	4107.3	4144.8	4107.3	4021.1	3903.7	3757.3	3606.6	3532.8	3474.4
-27.5°	3575.5	3637.7	3689.3	3709.6	3689.3	3637.7	3575.5	3519.3	3457.3	3508.0	3561.6
-30°	3502.4	3505.2	3519.7	3519.9	3519.7	3505.2	3502.4	3529.8	3565.4	3666.9	3797.5
-32.5°	3686.5	3646.1	3628.4	3647.3	3628.4	3646.1	3686.5	3755.8	3847.5	3925.8	3981.6
-35°	3967.7	3956.8	3957.7	3978.0	3957.7	3956.8	3967.7	3993.5	4032.1	4069.2	4075.8
-37.5°	4113.7	4122.2	4131.9	4134.3	4131.9	4122.2	4113.7	4111.8	4118.9	4129.6	4070.4
-40°	4154.1	4170.9	4183.6	4188.0	4183.6	4170.9	4154.1	4135.5	4103.6	4056.1	3919.9
-42.5°	4103.9	4137.3	4155.0	4159.2	4155.0	4137.3	4103.9	4054.6	3942.8	3782.2	3498.6
-45°	3820.2	3969.0	4053.1	4075.8	4053.1	3969.0	3820.2	3615.2	3332.8	3007.2	2653.5
-47.5°	2885.8	3119.3	3281.8	3356.9	3281.8	3119.3	2885.8	2625.0	2356.9	2089.8	1824.8
-50°	1822.5	1861.0	1889.7	1907.5	1889.7	1861.0	1822.5	1781.9	1743.1	1704.8	1660.7
-52.5°	1681.4	1695.5	1703.8	1707.2	1703.8	1695.5	1681.4	1665.5	1647.2	1623.4	1597.3
-55°	1623.2	1636.3	1642.1	1643.0	1642.1	1636.3	1623.2	1607.9	1590.1	1566.7	1542.4
-57.5°	1551.5	1571.4	1580.2	1581.6	1580.2	1571.4	1551.5	1527.7	1500.1	1467.7	1431.7
-60°	1407.3	1426.6	1436.1	1439.8	1436.1	1426.6	1407.3	1383.9	1356.2	1324.4	1289.1
-62.5°	1251.1	1272.1	1278.5	1277.8	1278.5	1272.1	1251.1	1226.3	1197.6	1166.3	1132.1
-65°	1078.0	1097.2	1102.7	1102.3	1102.7	1097.2	1078.0	1055.3	1029.4	1001.4	971.2
-67.5°	909.3	926.3	932.1	933.6	932.1	926.3	909.3	889.7	867.6	844.0	819.3
-70°	752.8	766.2	769.6	769.7	769.6	766.2	752.8	737.2	719.4	700.1	679.8
-72.5°	617.5	629.1	631.0	630.7	631.0	629.1	617.5	604.6	590.4	575.3	559.7
-75°	516.9	526.1	526.4	525.3	526.4	526.1	516.9	507.1	496.6	485.6	473.8
-77.5°	450.2	457.0	458.4	459.2	458.4	457.0	450.2	442.9	435.2	426.9	417.1
-80°	402.8	409.3	409.1	408.3	409.1	409.3	402.8	395.9	388.7	381.1	372.9
-82.5°	353.2	358.8	358.8	358.5	358.8	358.8	353.2	347.4	341.4	335.1	328.4
-85°	300.9	304.4	304.3	303.9	304.3	304.4	300.9	297.1	293.3	289.2	283.6
-87.5°	254.2	256.8	256.9	256.9	256.9	256.8	254.2	251.6	248.9	246.2	242.1
-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°	210.4	207.3	204.2	200.6	197.0	193.4	189.8	184.5	179.3	174.0	168.7
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°	6.5	6.2	6.0	6.0	5.8	5.9	5.7	5.2	4.7	4.2	3.9
70°	9.8	10.1	10.6	11.3	11.4	11.1	10.8	9.8	8.2	7.0	6.3
67.5°	10.3	11.0	12.4	13.9	14.7	15.3	16.4	17.0	16.3	14.5	11.1
65°	8.4	9.7	11.1	12.4	14.0	16.1	20.4	22.7	23.3	22.5	18.8
62.5°	5.2	6.3	7.6	9.2	10.9	13.8	19.3	24.0	27.8	29.0	24.9
60°	2.9	3.1	4.6	6.1	7.6	10.8	16.5	22.6	29.1	29.8	28.5
57.5°	3.1	3.6	5.0	5.8	6.0	9.7	14.8	19.6	25.6	29.1	29.2
55°	6.9	8.1	9.7	9.9	9.7	13.9	16.4	19.3	24.9	28.3	30.5
52.5°	22.7	29.0	29.3	21.4	23.1	28.3	24.7	26.4	31.1	35.6	35.9
50°	89.9	91.8	82.7	67.4	73.5	65.6	58.1	48.6	55.3	56.7	49.0
47.5°	222.7	204.6	182.3	164.8	160.6	158.4	137.6	112.0	119.5	96.1	84.7
45°	378.5	351.2	315.3	285.5	261.7	250.9	246.3	230.2	214.9	194.1	136.2
42.5°	710.1	582.1	476.2	430.2	367.3	341.0	326.4	323.9	316.7	303.4	259.4
40°	1111.7	1100.7	915.8	667.2	552.8	443.8	406.7	390.7	390.6	388.2	364.2
37.5°	1322.6	1294.9	1244.7	1129.1	864.5	677.4	539.5	464.4	445.5	444.6	427.9
35°	1371.3	1364.8	1363.2	1310.9	1224.7	1041.0	801.1	603.6	511.9	491.0	481.9
32.5°	1407.4	1419.4	1425.6	1414.7	1421.4	1415.8	1187.0	880.6	611.5	549.6	527.5
30°	1459.6	1476.9	1484.9	1511.1	1563.6	1586.2	1584.9	1225.8	853.0	611.5	576.8
27.5°	1527.6	1541.5	1558.7	1646.6	1691.8	1723.4	1742.7	1638.8	1120.7	781.9	634.5
25°	1666.1	1622.1	1722.1	1812.5	1851.9	1869.3	1919.4	1872.7	1519.1	982.1	694.3
22.5°	1879.9	1819.6	1862.7	2010.2	2024.8	2036.0	2072.2	2083.3	1917.0	1271.5	868.9
20°	2142.7	2030.5	2019.9	2097.2	2170.8	2183.6	2222.7	2240.9	2086.9	1625.1	1066.6
17.5°	2486.5	2262.2	2154.6	2179.2	2265.0	2308.8	2349.3	2361.6	2254.4	1943.5	1265.5
15°	3086.0	2530.3	2329.9	2283.3	2339.6	2414.0	2467.2	2506.6	2404.8	2150.0	1530.0
12.5°	5016.0	2836.5	2499.0	2357.3	2386.5	2490.6	2572.0	2620.7	2523.3	2288.3	1791.6
10°	7218.1	3630.4	2724.4	2499.1	2448.7	2539.4	2644.9	2677.7	2603.3	2402.4	2012.3
7.5°	10866.2	4662.3	2937.1	2636.2	2527.9	2580.8	2676.3	2717.0	2671.3	2492.4	2194.5
5°	13489.7	5503.1	3142.0	2772.1	2616.4	2645.9	2711.8	2757.6	2727.8	2562.2	2340.2
2.5°	15539.9	6286.9	3321.3	2891.3	2700.2	2720.8	2783.5	2799.8	2752.7	2571.1	2399.4
0°	16885.1	6643.8	3393.3	2950.5	2763.5	2779.8	2910.2	2844.1	2759.7	2560.3	2430.0
-2.5°	16748.7	6469.0	3425.1	2991.2	2824.5	2855.5	3010.8	3014.1	2823.2	2587.3	2453.7
-5°	15861.3	6462.5	3494.7	3054.8	2900.0	2942.8	3098.6	3118.9	2879.4	2624.0	2446.9
-7.5°	12829.2	5787.3	3503.9	3101.8	2978.6	3042.0	3176.7	3161.4	2946.0	2731.0	2476.2
-10°	8582.6	4604.7	3465.0	3151.6	3069.2	3155.6	3259.0	3202.1	3012.8	2831.0	2463.9
-12.5°	6343.4	3885.7	3412.3	3186.0	3174.0	3301.0	3353.2	3242.0	3084.9	2923.5	2405.1
-15°	4425.7	3706.6	3403.0	3290.5	3324.4	3430.6	3433.0	3267.5	3124.1	2985.4	2296.1
-17.5°	3863.8	3567.4	3397.2	3390.6	3493.9	3534.6	3449.7	3291.2	3139.5	2888.2	2094.3
-20°	3605.2	3469.7	3488.7	3562.3	3646.1	3641.9	3460.4	3308.3	3127.9	2622.8	1862.3



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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°	3489.7	3520.1	3604.5	3748.8	3772.0	3649.3	3476.8	3309.6	3089.0	2309.6	1621.7
-25°	3538.8	3654.4	3808.8	3869.4	3821.2	3645.6	3484.6	3276.5	2752.0	1999.5	1411.6
-27.5°	3699.3	3869.2	3970.2	3952.8	3810.1	3639.8	3451.3	3150.5	2362.7	1726.0	1401.7
-30°	3909.3	3998.2	4030.5	3960.3	3784.7	3606.6	3396.1	2690.6	2011.6	1498.3	1378.6
-32.5°	4041.5	4040.5	4007.4	3891.6	3739.4	3557.0	2944.0	2229.6	1649.6	1465.3	1362.3
-35°	4073.0	3991.5	3881.8	3775.6	3699.0	3105.5	2425.5	1808.4	1543.6	1431.5	1347.1
-37.5°	3976.1	3836.6	3707.5	3546.8	3089.9	2519.1	1885.4	1600.8	1490.7	1411.8	1334.5
-40°	3750.5	3599.3	3231.7	2841.0	2375.2	1841.2	1641.5	1532.4	1461.1	1392.7	1321.6
-42.5°	3181.1	2848.1	2494.0	2091.5	1738.5	1651.6	1566.2	1497.8	1432.7	1371.5	1271.7
-45°	2363.7	2065.4	1772.2	1704.2	1625.6	1572.4	1524.9	1467.0	1408.8	1313.4	1206.8
-47.5°	1742.5	1696.4	1643.1	1605.4	1565.0	1523.8	1486.6	1437.5	1338.4	1237.1	1127.2
-50°	1623.6	1602.2	1577.5	1550.9	1520.7	1486.5	1425.1	1348.8	1251.4	1148.3	1042.9
-52.5°	1569.2	1548.2	1527.7	1506.7	1457.0	1391.3	1322.1	1244.1	1153.5	1053.3	952.3
-55°	1517.5	1480.3	1438.7	1393.4	1343.0	1276.8	1206.7	1130.6	1046.1	951.6	861.4
-57.5°	1392.5	1351.6	1309.6	1264.4	1216.0	1151.3	1079.9	1006.9	933.4	849.6	769.3
-60°	1250.4	1210.0	1167.9	1121.3	1070.2	1011.7	951.4	886.5	817.1	753.1	688.4
-62.5°	1094.5	1053.6	1014.8	974.7	932.9	886.6	830.8	776.2	720.7	663.4	603.6
-65°	938.1	902.1	868.8	837.9	805.1	770.1	722.0	672.4	621.6	569.8	517.1
-67.5°	792.6	763.8	737.2	710.9	682.5	651.7	610.1	565.6	525.7	486.8	445.7
-70°	657.3	632.6	608.6	585.2	563.4	542.0	512.9	479.7	445.4	416.8	390.3
-72.5°	542.7	524.3	506.4	489.7	471.1	456.1	438.2	416.2	393.5	370.2	348.6
-75°	461.3	448.0	435.2	424.5	413.0	400.8	387.7	371.3	355.0	338.7	322.4
-77.5°	407.0	396.6	386.7	379.1	371.1	362.6	352.4	338.3	324.2	310.0	295.7
-80°	364.4	355.7	347.2	340.5	333.5	326.3	318.1	305.8	293.4	280.9	268.3
-82.5°	321.4	314.2	306.9	301.2	295.3	289.2	282.5	271.9	261.3	250.6	240.0
-85°	277.9	272.0	266.1	261.6	256.9	252.1	247.1	238.4	229.6	220.8	211.9
-87.5°	237.9	233.6	229.4	225.9	222.3	218.6	214.9	208.0	201.2	194.4	187.6
-90°	1.0	1.0	1.0	1.2	1.5	1.7	1.9	2.2	2.4	2.7	2.9



REPORT NUMBER: P731309 (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°	162.5	156.3	150.0	143.8	135.4	127.0	118.6	110.2	101.4	92.5	83.7
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	4.6	4.6
75°	3.8	3.7	3.7	4.0	4.3	4.4	4.4	4.6	5.0	5.0	5.1
72.5°	4.1	4.1	4.0	4.2	4.7	5.0	5.0	5.2	5.8	5.9	5.7
70°	5.6	4.8	4.5	5.0	5.5	5.6	5.8	6.3	6.6	6.9	6.7
67.5°	8.1	7.2	6.2	6.3	6.8	7.0	6.8	7.6	8.2	7.9	7.8
65°	14.8	11.3	8.6	9.2	9.1	8.6	8.5	9.3	9.8	9.7	8.9
62.5°	20.9	16.9	14.2	13.2	12.4	11.6	10.5	11.8	11.8	11.6	10.5
60°	26.3	21.9	20.5	19.7	17.4	15.2	14.6	14.5	14.6	13.6	12.5
57.5°	27.8	26.2	27.8	27.0	24.4	20.7	19.6	19.1	17.5	16.3	14.6
55°	29.1	29.5	35.8	35.9	32.6	28.0	26.6	25.1	21.3	19.3	17.3
52.5°	33.8	38.4	44.9	46.2	42.6	37.4	36.7	31.6	27.8	22.5	20.9
50°	44.6	53.4	58.7	59.0	53.9	52.0	47.7	42.0	34.6	26.7	24.9
47.5°	75.3	82.8	78.2	75.4	69.2	69.0	63.4	53.6	41.9	33.4	29.2
45°	136.8	129.8	112.4	97.9	92.2	91.5	82.3	65.9	53.2	41.7	33.8
42.5°	211.6	196.6	170.1	123.6	124.0	117.8	103.1	84.3	65.0	50.4	40.3
40°	313.2	275.4	238.8	190.6	160.6	147.2	129.5	104.9	77.6	60.5	48.1
37.5°	406.0	359.0	318.4	256.9	205.8	184.1	158.4	126.9	93.8	73.2	56.1
35°	462.1	434.9	388.9	321.1	264.1	224.0	189.4	151.6	114.2	86.1	64.3
32.5°	510.3	494.1	447.2	382.5	319.0	266.6	224.9	177.4	134.1	99.3	72.5
30°	555.2	538.1	505.1	439.5	371.2	314.7	260.7	202.1	153.6	112.7	81.5
27.5°	602.3	582.4	559.5	492.6	421.3	359.7	291.1	225.6	172.6	127.2	92.5
25°	650.6	625.7	600.4	545.0	467.7	395.5	320.2	248.1	192.2	143.2	103.4
22.5°	705.6	667.3	641.1	596.8	509.8	431.6	349.3	272.9	211.3	158.6	114.1
20°	760.1	707.5	680.2	638.7	551.6	467.7	379.2	296.3	229.3	173.4	124.6
17.5°	833.1	749.9	711.3	668.2	590.9	502.5	408.5	318.3	246.2	187.4	134.9
15°	1004.8	795.6	742.2	696.7	626.6	535.8	436.9	338.8	261.9	200.7	144.3
12.5°	1184.4	840.9	773.2	724.1	658.9	567.4	464.2	357.7	276.4	212.8	152.6
10°	1365.6	885.2	803.7	750.3	687.9	597.0	489.9	377.1	292.3	223.8	160.1
7.5°	1541.2	927.8	833.6	775.0	713.8	622.6	514.3	399.8	307.8	234.0	167.0
5°	1691.7	965.6	863.5	801.6	737.7	643.5	535.6	421.0	322.4	243.3	173.1
2.5°	1764.4	995.7	892.4	827.3	759.3	661.5	553.9	440.6	335.9	251.6	178.5
0°	1805.9	1021.8	919.3	851.2	778.4	676.7	569.4	458.2	348.0	258.8	183.1
-2.5°	1802.9	1046.5	945.0	876.3	805.6	697.4	582.1	468.0	357.3	267.3	189.4
-5°	1770.6	1067.7	968.5	899.7	829.5	714.8	592.1	475.6	365.0	274.4	194.8
-7.5°	1747.4	1091.8	991.6	921.6	849.8	728.4	599.3	481.0	371.0	280.2	199.4
-10°	1697.6	1115.7	1015.0	942.0	862.1	737.5	604.1	484.1	375.4	284.6	203.0
-12.5°	1609.8	1134.5	1035.3	959.9	870.0	742.5	609.6	487.4	378.4	287.4	205.6
-15°	1482.2	1147.9	1052.4	974.9	874.2	744.2	611.8	489.3	381.1	289.1	207.3
-17.5°	1313.7	1155.6	1066.2	986.9	874.5	742.6	610.8	488.5	381.9	289.6	208.5
-20°	1286.6	1165.2	1076.5	995.7	871.1	737.7	606.3	485.0	380.8	288.6	209.1



REPORT NUMBER: P731309 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1287.9	1177.5	1088.0	990.8	863.0	729.5	598.4	478.7	377.6	286.0	208.5
-25°	1284.0	1185.8	1098.2	985.4	850.4	717.9	588.1	469.7	372.5	281.9	206.8
-27.5°	1285.0	1191.2	1106.3	975.3	838.1	702.3	575.7	462.1	365.7	276.1	203.8
-30°	1285.2	1196.9	1094.9	959.5	820.9	684.9	560.1	452.3	357.8	270.8	199.7
-32.5°	1277.8	1200.8	1073.8	936.1	798.3	663.7	542.5	440.1	347.9	265.1	197.4
-35°	1271.4	1177.9	1047.0	907.1	770.6	641.9	524.7	425.7	336.3	257.9	195.3
-37.5°	1259.7	1136.7	1009.7	872.5	738.1	616.4	507.4	410.7	322.8	249.1	192.3
-40°	1209.9	1087.9	961.2	832.2	705.1	587.3	487.0	393.7	310.4	238.9	188.5
-42.5°	1154.4	1030.4	907.3	785.6	669.3	561.3	463.7	373.9	296.9	231.6	183.8
-45°	1087.1	967.6	848.7	738.1	631.0	532.0	438.6	352.2	281.5	225.3	179.8
-47.5°	1014.6	899.5	790.1	687.0	594.4	499.7	410.3	332.9	264.6	217.9	177.2
-50°	936.2	830.4	730.4	638.4	551.9	464.6	380.9	311.6	254.3	209.0	174.0
-52.5°	855.7	761.7	672.6	588.9	506.8	426.2	354.7	289.4	242.7	202.6	170.3
-55°	774.4	695.8	615.7	536.2	458.8	391.5	326.3	274.5	229.8	197.0	166.1
-57.5°	699.4	630.2	554.8	480.3	414.6	355.6	303.3	258.2	221.2	190.9	162.6
-60°	623.7	558.6	490.5	429.3	372.3	324.3	283.1	243.5	213.5	184.5	158.2
-62.5°	543.9	486.5	434.2	380.1	336.9	299.2	263.4	234.0	205.2	178.7	153.3
-65°	471.2	424.7	379.2	343.8	308.5	276.5	251.5	223.8	197.4	172.4	148.1
-67.5°	404.2	374.4	344.5	312.1	286.1	262.2	238.7	214.1	189.5	165.6	142.3
-70°	363.4	336.2	314.1	292.3	269.8	247.6	226.6	204.3	181.0	158.2	136.2
-72.5°	330.2	311.8	293.5	273.9	253.6	233.8	214.4	193.9	171.7	150.3	129.7
-75°	305.7	289.2	273.0	255.9	237.5	219.3	201.1	182.3	161.8	142.0	122.9
-77.5°	281.0	266.5	252.2	237.2	220.2	203.4	187.0	170.2	151.4	133.2	115.7
-80°	255.5	242.8	230.1	217.1	202.0	187.1	172.4	157.4	140.5	124.0	108.1
-82.5°	229.1	218.3	207.4	196.3	183.1	170.0	157.1	144.2	129.2	114.6	101.2
-85°	202.7	193.5	184.3	174.9	163.7	152.6	142.2	131.7	119.4	107.3	95.5
-87.5°	180.4	173.1	165.9	158.6	149.2	139.9	130.5	121.1	110.4	100.0	89.6
-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: P731309 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	74.8	62.3	49.8	37.4	24.9	15.3	5.8
87.5°	3.8	3.9	4.0	4.0	4.0	5.0	5.8
85°	3.8	4.0	4.1	4.2	4.2	5.1	5.8
82.5°	3.8	4.1	4.3	4.4	4.3	5.3	5.8
80°	3.9	4.3	4.5	4.6	4.5	5.5	5.8
77.5°	4.5	4.6	4.7	4.8	4.7	5.7	5.8
75°	5.1	5.3	5.0	5.0	5.0	5.8	5.8
72.5°	5.7	6.0	5.7	5.2	5.2	6.0	5.8
70°	6.4	6.7	6.4	5.5	5.4	6.2	5.8
67.5°	7.7	7.4	7.1	6.1	5.7	6.4	5.8
65°	9.0	8.5	7.8	6.8	6.0	6.6	5.8
62.5°	10.4	9.9	8.6	7.4	6.3	6.8	5.8
60°	11.9	11.3	9.4	8.1	6.6	7.0	5.8
57.5°	14.2	12.8	10.7	8.7	7.2	7.2	5.8
55°	16.8	14.4	12.1	9.4	7.9	7.4	5.8
52.5°	19.5	16.2	13.4	10.0	8.6	7.6	5.8
50°	22.4	18.7	14.9	10.7	9.3	7.8	5.8
47.5°	25.5	21.3	16.3	11.4	10.0	8.0	5.8
45°	29.6	24.0	17.8	12.5	10.7	8.2	5.8
42.5°	33.8	26.8	19.2	13.6	11.5	8.4	5.8
40°	38.2	29.6	21.1	15.1	12.3	8.6	5.8
37.5°	42.7	32.5	23.3	16.8	13.1	8.8	5.8
35°	47.4	35.9	25.5	18.5	13.9	9.0	5.8
32.5°	52.8	39.6	27.7	20.3	14.8	9.2	5.8
30°	59.5	43.4	29.9	22.1	15.6	9.4	5.8
27.5°	66.2	47.1	33.0	23.9	16.5	9.6	5.8
25°	72.8	50.8	36.2	25.7	17.3	9.8	5.8
22.5°	79.3	54.8	39.3	27.5	18.2	10.0	5.8
20°	85.7	59.3	42.4	29.3	19.0	10.2	5.8
17.5°	92.1	63.7	45.5	31.1	19.8	10.4	5.8
15°	98.3	67.9	48.5	32.8	20.6	10.6	5.8
12.5°	104.2	72.0	51.4	34.5	21.4	10.8	5.8
10°	109.6	75.8	54.2	36.2	22.2	10.9	5.8
7.5°	114.7	79.5	56.9	37.8	22.9	11.1	5.8
5°	119.4	82.9	59.5	39.4	23.6	11.2	5.8
2.5°	123.7	86.1	61.9	40.8	24.3	11.4	5.8
0°	127.5	89.1	64.2	42.2	24.9	11.5	5.8
-2.5°	132.0	92.8	67.1	44.4	26.3	12.1	5.8
-5°	136.1	96.3	69.8	46.5	27.6	12.6	5.8
-7.5°	139.7	99.5	72.3	48.5	28.8	13.1	5.8
-10°	142.8	102.4	74.7	50.4	30.0	13.7	5.8
-12.5°	145.4	105.0	76.8	52.2	31.1	14.2	5.8
-15°	147.5	107.4	78.8	53.8	32.1	14.6	5.8
-17.5°	149.1	109.5	80.6	55.3	33.0	15.1	5.8
-20°	150.4	111.2	82.2	56.6	33.9	15.5	5.8



REPORT NUMBER: P731309 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	151.7	112.7	83.6	57.8	34.7	15.9	5.8
-25°	152.3	114.1	84.8	58.8	35.3	16.3	5.8
-27.5°	152.3	115.2	85.8	59.6	35.9	16.7	5.8
-30°	151.6	116.0	86.7	60.3	36.4	17.0	5.8
-32.5°	150.3	116.4	87.4	60.9	36.8	17.3	5.8
-35°	149.8	116.4	87.8	61.3	37.0	17.5	5.8
-37.5°	149.5	116.3	88.0	61.5	37.2	17.8	5.8
-40°	148.7	116.3	87.9	61.5	37.3	18.0	5.8
-42.5°	147.5	116.0	87.7	61.3	37.2	18.1	5.8
-45°	145.8	115.3	87.2	61.0	37.1	18.3	5.8
-47.5°	143.6	114.2	86.5	60.5	36.8	18.4	5.8
-50°	141.7	112.9	85.6	59.9	36.4	18.5	5.8
-52.5°	139.6	111.2	84.4	59.1	36.0	18.5	5.8
-55°	137.1	109.3	82.9	58.2	35.4	18.5	5.8
-57.5°	134.2	107.1	81.3	57.1	34.7	18.5	5.8
-60°	130.9	104.5	79.4	55.8	33.9	18.4	5.8
-62.5°	127.3	101.7	77.3	54.4	33.6	18.3	5.8
-65°	123.3	98.6	75.1	52.8	33.1	18.2	5.8
-67.5°	119.0	95.2	72.6	51.1	32.6	18.0	5.8
-70°	114.3	91.6	69.9	49.3	32.0	17.8	5.8
-72.5°	109.3	87.7	67.1	48.0	31.3	17.6	5.8
-75°	104.0	83.6	64.0	46.8	30.6	17.3	5.8
-77.5°	98.4	79.3	61.8	45.4	29.8	17.1	5.8
-80°	92.6	75.8	59.7	44.0	28.9	16.8	5.8
-82.5°	88.2	72.6	57.4	42.5	28.0	16.5	5.8
-85°	83.9	69.3	55.0	40.9	27.0	16.1	5.8
-87.5°	79.4	65.9	52.5	39.2	26.0	15.7	5.8
-90°	3.8	3.8	3.8	3.8	3.8	4.8	5.8

(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

