

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: P731591 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-57-80-7F-CV2**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731591 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-43)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0530N-57-80-7F-CV2
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 7F BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

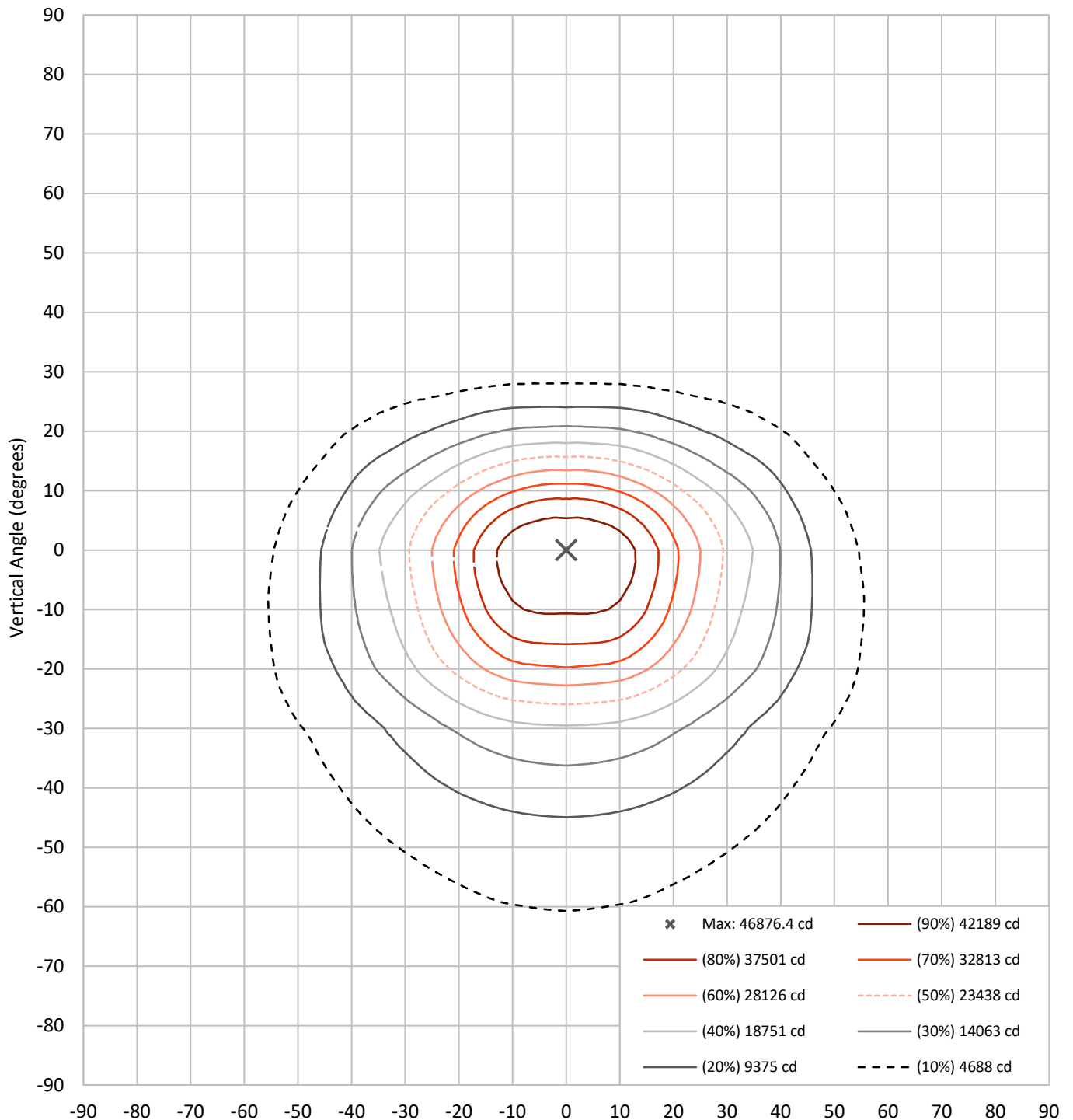
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	41011.3 lumens	Max Intensity:	46876.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	73.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	58.6°H x 41.6°V	Field Angle (10%):	109°H x 88.8°V
Beam Lumens:	19881.9 lumens	Field Lumens:	37247.9 lumens
Beam Efficiency:	48.5%	Field Efficiency:	90.8%

Input Watts (W): 559.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Candela Plot





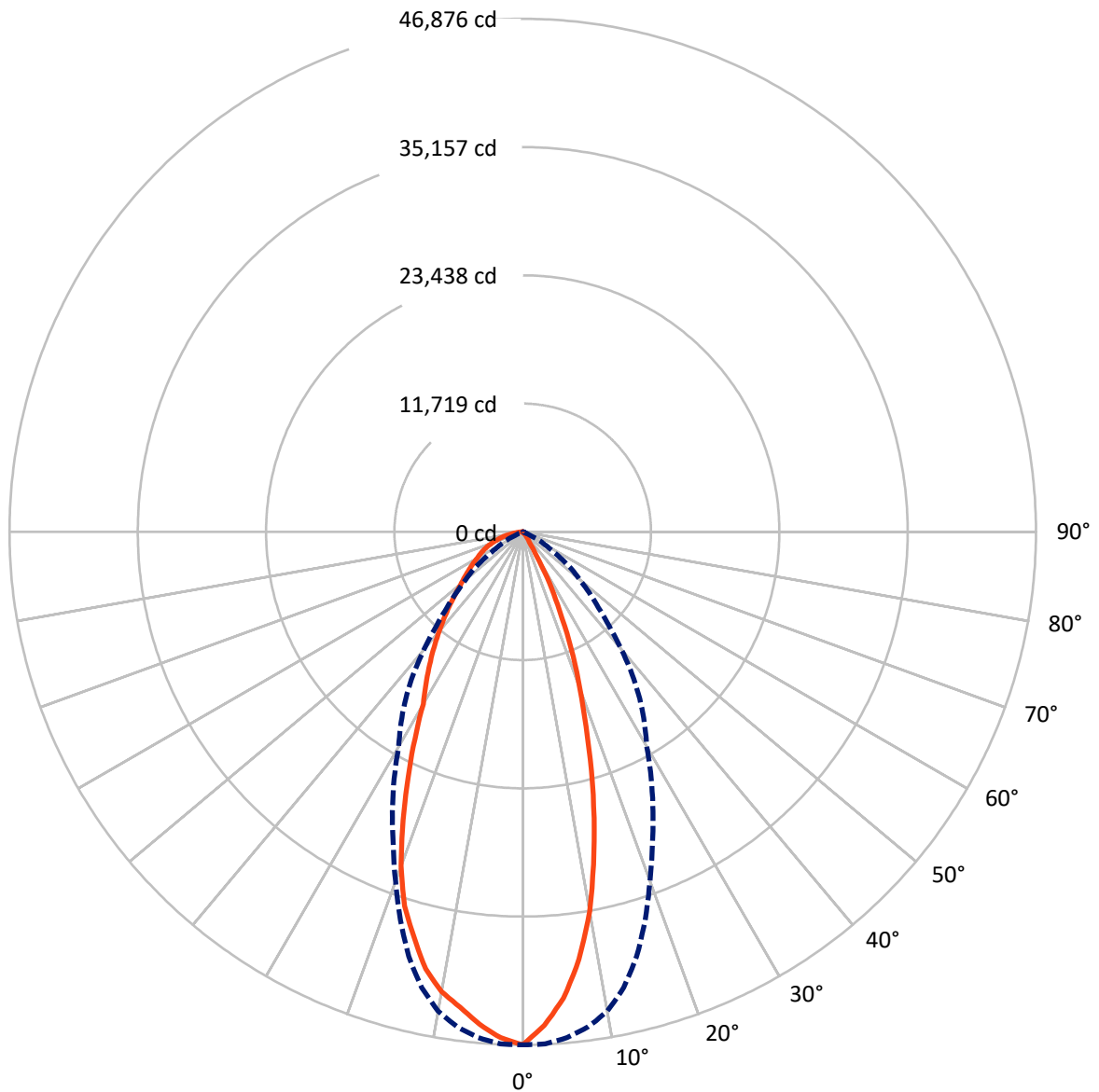
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Lumen Table

90																			
80	0.3	2.0		4.9		3.6		2.8		3.6		4.9		2.0		0.3			
70																			
60	0.4	0.6	1.3	2.0	1.5	0.8	0.6	0.5	0.5	0.6	0.8	1.5	2.0	1.3	0.6	0.4			
50		0.6	1.0	1.0	0.8	0.8	0.7	0.7	0.7	0.7	0.8	0.8	1.0	1.0	0.6				
40	0.6	0.6	1.2	2.0	2.8	3.5	4.3	4.8	4.8	4.3	3.5	2.8	2.0	1.2	0.6	0.6			
30		0.9	4.3	9.9	16.2	21.2	28.0	31.9	31.9	28.0	21.2	16.2	9.9	4.3	0.9				
20	1.0	2.4	15.3	44.8	92.8	150.2	217.8	254.2	254.2	217.8	150.2	92.8	44.8	15.3	2.4	1.0			
10		5.7	37.5	111.8	246.7	416.5	614.4	743.0	743.0	614.4	416.5	246.7	111.8	37.5	5.7				
0	2.4	11.1	66.0	190.3	411.6	697.5	1040.5	1256.1	1256.1	1040.5	697.5	411.6	190.3	66.0	11.1	2.4			
-10		18.1	84.8	219.0	449.3	761.4	1146.4	1353.4	1353.4	1146.4	761.4	449.3	219.0	84.8	18.1				
-20	5.7	21.1	84.7	205.1	398.3	661.9	975.6	1147.2	1147.2	975.6	661.9	398.3	205.1	84.7	21.1	5.7			
-30		20.0	69.6	154.5	290.3	463.0	645.5	744.8	744.8	645.5	463.0	290.3	154.5	69.6	20.0				
-40	6.6	18.1	51.0	106.6	189.7	292.2	388.5	442.9	442.9	388.5	292.2	189.7	106.6	51.0	18.1	6.6			
-50		14.7	37.2	75.0	130.1	194.0	249.0	280.9	280.9	249.0	194.0	130.1	75.0	37.2	14.7				
-60	4.4	10.9	26.1	50.3	84.4	123.5	158.7	178.1	178.1	158.7	123.5	84.4	50.3	26.1	10.9	4.4			
-70		7.5	18.1	34.4	55.8	80.4	103.9	116.7	116.7	103.9	80.4	55.8	34.4	18.1	7.5				
-80	1.2	17.1		61.2		117.2		144.0		117.2		61.2		17.1		1.2			
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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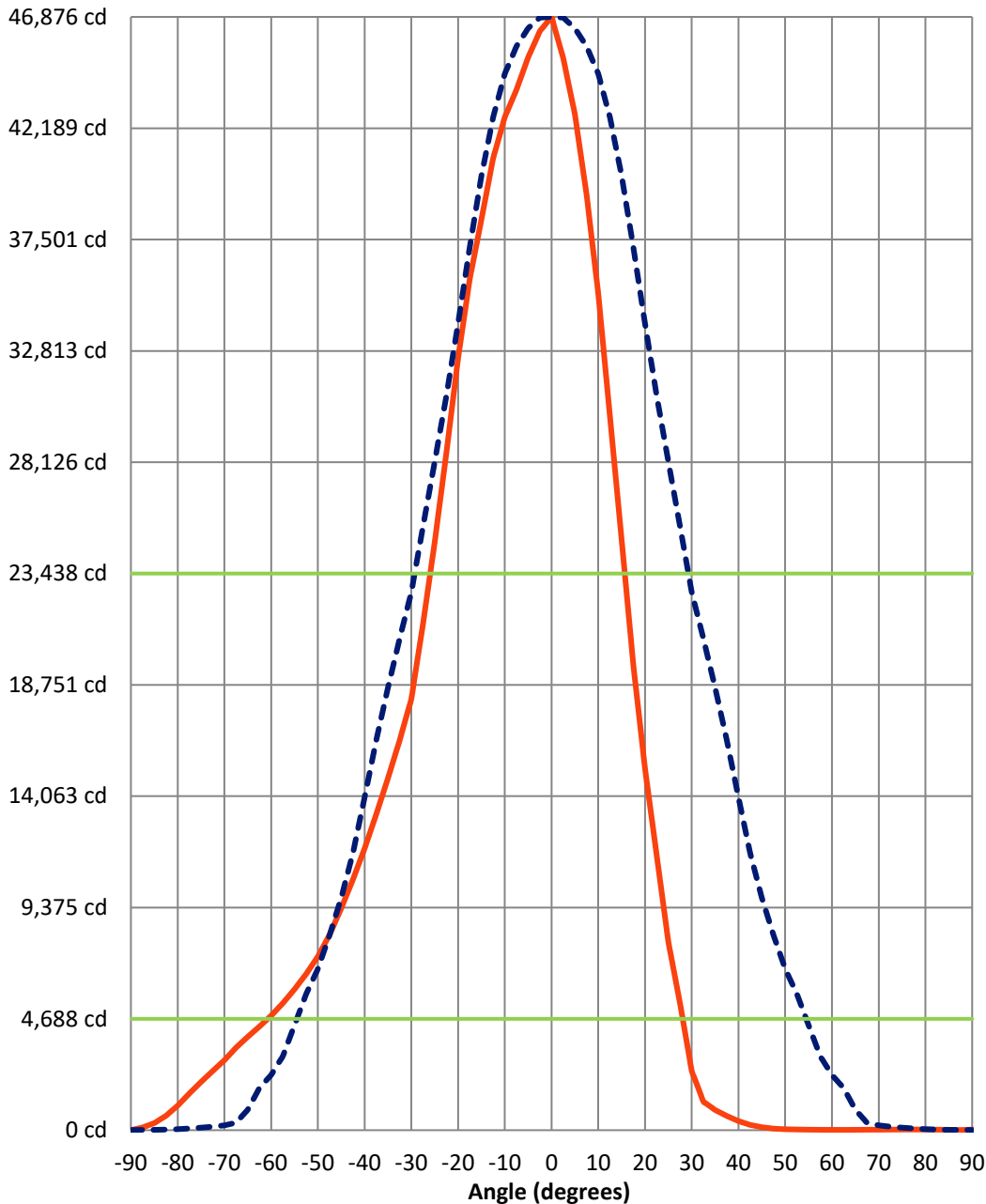
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 58.6°
 V Angle: 41.6°
 Lumens: 19881.9
 Efficiency: 48.5%

Field:
 H Angle: 109°
 V Angle: 88.8°
 Lumens: 37247.9
 Efficiency: 90.8%

Spill:
 Lumens: 3763.4
 Efficiency: 9.2%

— 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°	6.6	7.4	8.2	8.6	9.1	9.5	9.9	10.3	10.7	11.1	11.5
87.5°	6.6	6.9	7.2	7.6	8.2	8.8	9.6	9.8	10.0	10.1	10.1
85°	6.6	7.1	7.7	8.6	9.7	11.0	12.5	13.0	13.3	13.5	13.5
82.5°	6.6	7.3	8.3	9.6	11.3	13.2	15.5	16.2	16.7	17.9	20.0
80°	6.6	7.6	8.9	10.6	12.8	15.4	18.0	18.5	20.2	23.4	28.0
77.5°	6.6	7.8	9.4	11.6	14.3	16.8	18.4	20.1	23.5	28.8	34.2
75°	6.6	8.1	10.0	12.6	15.5	16.9	18.7	21.6	26.4	30.8	35.2
72.5°	6.6	8.3	10.5	13.5	15.4	16.9	18.9	22.6	27.1	31.6	36.1
70°	6.6	8.5	11.0	14.2	15.3	16.9	19.2	23.2	27.8	32.4	37.5
67.5°	6.6	8.8	11.5	14.0	15.2	16.9	19.8	23.7	28.4	33.7	38.9
65°	6.6	9.0	12.0	13.8	15.0	17.2	20.4	24.2	29.5	34.9	40.8
62.5°	6.6	9.2	12.5	13.6	14.8	17.7	21.1	24.9	30.5	36.3	43.8
60°	6.6	9.4	13.0	13.3	14.6	18.3	21.7	25.7	31.4	38.7	46.6
57.5°	6.6	9.6	12.9	13.1	15.0	18.8	22.7	26.6	33.1	41.0	48.0
55°	6.6	9.8	12.8	12.8	15.4	19.3	23.7	27.7	34.8	42.8	48.8
52.5°	6.6	10.0	12.7	12.5	15.9	19.9	24.8	29.6	36.4	43.6	49.6
50°	6.6	10.2	12.7	12.2	16.3	20.9	25.8	31.5	37.7	44.5	48.2
47.5°	6.6	10.3	12.6	12.1	16.7	21.8	27.0	33.4	38.5	45.4	46.8
45°	6.6	10.5	12.6	12.3	17.0	22.7	28.7	35.4	40.5	44.4	45.5
42.5°	6.6	10.6	12.6	12.6	17.4	23.5	30.3	37.4	42.9	43.5	44.2
40°	6.6	10.8	12.6	13.1	17.9	24.4	32.0	39.7	45.2	43.1	43.3
37.5°	6.6	10.9	12.7	13.8	18.5	25.3	33.6	42.1	47.2	45.6	42.8
35°	6.6	11.0	12.7	14.5	19.2	26.4	35.1	44.7	49.7	49.2	46.0
32.5°	6.6	11.1	12.8	15.3	19.7	27.6	36.8	47.4	52.8	53.9	59.1
30°	6.6	11.2	12.9	16.0	20.3	28.7	38.9	50.2	56.5	59.6	72.5
27.5°	6.6	11.3	13.0	16.8	21.9	29.8	41.1	53.0	60.8	66.1	86.1
25°	6.6	11.4	13.2	17.6	23.7	30.8	43.2	56.1	66.0	76.3	101.4
22.5°	6.6	11.4	13.3	18.3	25.6	32.6	45.3	59.4	71.8	87.9	150.4
20°	6.6	11.5	13.5	19.1	27.6	36.8	47.4	62.9	77.9	99.4	202.2
17.5°	6.6	11.5	13.6	19.9	29.6	41.1	52.9	66.5	84.4	110.8	256.0
15°	6.6	11.5	13.8	20.7	31.6	45.6	60.7	73.8	91.0	121.9	310.5
12.5°	6.6	11.6	14.0	21.4	33.6	50.1	68.6	85.8	104.9	132.8	364.8
10°	6.6	11.6	14.2	22.2	35.6	54.8	76.5	98.1	124.7	165.4	436.4
7.5°	6.6	11.6	14.3	22.9	37.5	59.4	84.4	110.5	144.8	202.3	547.7
5°	6.6	11.6	14.5	23.5	39.4	63.9	92.2	122.8	164.9	239.7	658.4
2.5°	6.6	11.5	14.6	24.1	41.1	68.3	99.8	134.8	184.8	276.8	765.1
0°	6.6	11.5	14.8	24.7	42.8	72.4	107.0	146.5	204.1	312.7	864.1
-2.5°	6.6	11.7	15.9	28.3	51.1	87.9	134.7	192.3	276.2	429.3	1017.0
-5°	6.6	11.9	16.9	31.9	59.2	103.0	161.7	236.9	346.4	541.7	1156.7
-7.5°	6.6	12.1	17.9	35.3	67.0	117.4	187.5	279.7	413.4	647.9	1281.3
-10°	6.6	12.3	18.9	38.5	74.3	131.0	211.8	320.0	476.3	745.5	1388.8
-12.5°	6.6	12.4	19.8	41.5	81.2	143.6	234.2	357.3	534.0	829.5	1429.6
-15°	6.6	12.6	20.7	44.2	87.4	155.0	254.4	390.9	584.6	880.8	1435.9
-17.5°	6.6	12.7	21.5	46.7	92.9	165.2	272.1	422.9	628.2	924.8	1433.6
-20°	6.6	12.8	22.3	48.8	97.7	173.9	289.5	452.8	665.9	960.9	1423.7



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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°	6.6	12.9	22.9	50.5	101.6	181.0	307.9	478.3	697.3	988.9	1407.1
-25°	6.6	13.0	23.5	51.9	104.6	190.4	323.1	499.1	722.0	1008.6	1384.8
-27.5°	6.6	13.0	23.9	52.8	106.6	199.3	335.0	515.0	739.6	1024.9	1398.8
-30°	6.6	13.0	24.3	53.3	108.0	205.9	343.4	525.7	754.4	1042.1	1404.4
-32.5°	6.6	13.0	24.6	53.3	111.3	210.3	348.2	534.0	764.7	1049.6	1399.5
-35°	6.6	13.0	24.7	52.9	113.3	212.3	351.9	538.1	767.8	1047.4	1384.0
-37.5°	6.6	13.0	24.8	52.0	114.0	212.8	353.3	536.8	763.6	1035.3	1316.4
-40°	6.6	12.9	24.7	50.5	113.2	212.9	351.0	530.3	752.0	1020.7	1248.7
-42.5°	6.6	12.8	24.5	49.2	112.2	210.7	345.1	518.5	737.0	971.6	1176.7
-45°	6.6	12.7	24.2	48.3	111.2	206.4	335.5	503.7	717.0	915.1	1102.4
-47.5°	6.6	12.6	23.8	46.8	108.9	199.9	322.2	487.4	689.5	855.8	1036.2
-50°	6.6	12.4	23.3	46.3	105.5	191.1	309.9	466.2	641.3	801.6	967.0
-52.5°	6.6	12.2	22.6	45.8	100.9	180.3	295.3	440.2	596.0	745.0	896.0
-55°	6.6	12.0	21.9	44.8	95.3	171.1	277.6	410.4	550.7	686.2	830.9
-57.5°	6.6	11.8	21.0	43.2	88.5	160.9	257.1	383.3	503.2	630.9	763.5
-60°	6.6	11.5	20.1	41.1	81.0	149.1	234.5	349.3	455.3	575.1	696.3
-62.5°	6.6	11.3	19.3	38.6	75.5	135.7	215.6	311.8	410.7	517.1	631.6
-65°	6.6	11.0	18.5	35.5	69.3	120.9	194.5	275.0	363.7	461.0	564.8
-67.5°	6.6	10.7	17.7	32.1	62.2	106.9	171.6	242.6	314.6	403.3	497.3
-70°	6.6	10.4	16.8	28.3	54.4	93.8	146.9	208.6	272.5	343.4	427.9
-72.5°	6.6	10.0	15.8	25.9	46.0	79.6	124.8	173.2	228.8	290.4	357.8
-75°	6.6	9.7	14.8	23.7	37.0	64.5	102.1	141.0	183.5	235.6	292.8
-77.5°	6.6	9.3	13.8	21.3	31.8	48.6	78.2	109.6	143.9	181.7	225.8
-80°	6.6	8.9	12.7	18.9	27.5	38.4	53.4	77.3	104.0	133.6	165.9
-82.5°	6.6	8.6	11.6	16.4	23.0	31.4	41.4	51.1	63.4	84.5	107.7
-85°	6.6	8.2	10.5	13.9	18.4	24.2	31.1	37.6	44.9	52.8	61.4
-87.5°	6.6	7.8	9.3	11.3	13.8	16.8	20.5	24.0	27.9	32.0	36.5
-90°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	11.9	12.4	12.8	13.2	13.6	14.0	14.4	14.8	15.6	16.5	17.3
87.5°	10.6	11.1	11.7	12.3	11.2	10.0	8.7	7.3	7.6	8.1	8.5
85°	14.5	15.6	17.1	18.2	17.3	16.6	16.1	15.7	16.6	17.3	17.9
82.5°	22.0	23.5	24.4	24.8	25.3	26.1	27.5	30.4	32.2	33.3	33.8
80°	30.3	31.4	32.4	34.6	38.5	43.2	48.5	54.4	56.0	55.7	54.6
77.5°	35.4	37.5	41.4	47.0	53.4	60.1	67.4	75.3	77.3	76.4	74.7
75°	38.4	43.0	49.5	57.4	65.9	74.7	84.1	92.8	94.9	92.1	88.7
72.5°	41.1	47.8	56.4	66.8	76.5	85.6	95.2	105.2	109.1	104.4	98.3
70°	43.4	51.9	62.4	73.5	84.6	94.3	103.7	114.5	121.4	112.7	99.3
67.5°	45.4	56.1	67.5	79.0	88.5	98.1	109.4	114.1	116.7	102.8	88.4
65°	48.5	60.0	70.2	79.8	89.7	94.4	98.2	101.7	100.3	84.5	69.3
62.5°	51.6	60.9	70.4	78.1	81.3	84.1	83.6	80.3	75.2	65.4	53.5
60°	52.7	60.7	67.5	70.8	72.0	69.4	65.4	62.4	58.0	49.6	41.7
57.5°	53.3	58.0	61.8	62.8	59.8	55.7	54.2	49.8	46.6	41.4	34.2
55°	52.9	53.6	55.4	53.2	50.8	49.3	46.9	45.5	41.0	36.1	30.8
52.5°	50.6	49.8	48.2	47.1	47.8	47.5	46.7	44.3	40.2	35.3	32.3
50°	48.6	45.7	43.0	46.7	50.1	52.8	48.6	46.0	45.8	43.5	38.8
47.5°	46.1	42.3	44.6	50.3	59.8	63.3	57.4	57.2	59.2	63.8	58.1
45°	43.9	45.2	49.0	63.1	74.7	80.1	81.0	74.6	90.4	95.7	94.1
42.5°	42.2	51.6	68.4	78.3	97.1	108.6	113.2	122.6	132.0	143.4	146.4
40°	48.4	59.8	97.8	114.6	126.2	145.9	169.8	185.4	188.3	205.6	213.4
37.5°	56.5	93.2	137.9	166.9	166.1	200.4	236.1	273.6	294.7	278.1	316.4
35°	65.5	132.4	195.7	237.9	248.6	269.9	332.9	404.6	473.9	433.3	453.1
32.5°	92.7	177.3	263.3	327.9	390.7	405.0	444.1	638.4	764.2	766.2	665.1
30°	137.0	240.5	343.9	432.2	577.4	644.1	706.5	947.8	1159.2	1295.4	1324.3
27.5°	192.6	312.7	442.5	601.3	807.2	927.6	1129.5	1388.6	1721.3	1970.4	2142.7
25°	255.1	424.4	550.2	815.2	1081.5	1302.5	1585.9	1942.6	2409.2	2808.5	3181.3
22.5°	335.5	554.1	721.1	1054.9	1385.5	1707.9	2101.4	2614.2	3208.0	3727.3	4255.6
20°	436.6	701.4	944.0	1350.6	1731.1	2119.1	2624.1	3337.2	4088.8	4822.9	5508.4
17.5°	546.0	856.6	1193.6	1688.4	2203.3	2642.0	3170.8	4088.0	5016.4	6024.6	7022.8
15°	661.2	1017.4	1441.1	2056.9	2710.2	3307.5	4006.9	4941.3	6045.3	7338.4	8626.2
12.5°	779.6	1181.1	1683.9	2447.0	3238.9	3985.3	4875.7	5941.9	7209.3	8742.8	10304.5
10°	898.1	1345.0	1919.4	2848.3	3779.1	4666.2	5722.6	6907.8	8357.1	10080.2	11846.7
7.5°	1112.9	1560.3	2163.6	3249.8	4319.7	5340.5	6540.1	7832.6	9444.0	11359.6	13291.8
5°	1342.2	1825.6	2496.8	3671.0	4830.2	5932.1	7275.3	8707.6	10461.7	12564.5	14659.7
2.5°	1565.1	2080.8	2814.7	4064.3	5299.6	6383.3	7769.6	9275.8	11133.5	13405.8	15698.8
0°	1774.3	2324.0	3114.0	4420.8	5731.0	6790.9	8208.0	9781.5	11664.4	14008.1	16421.0
-2.5°	1963.2	2546.3	3365.9	4638.9	5864.2	6891.7	8318.9	9896.9	11759.2	14010.3	16240.9
-5°	2129.4	2753.5	3594.2	4821.0	5963.7	6958.6	8371.6	9943.3	11769.8	13909.5	15992.2
-7.5°	2270.9	2944.3	3797.2	4952.0	6016.6	7012.3	8382.8	9926.8	11707.6	13726.4	15698.6
-10°	2365.4	3022.9	3810.0	4918.0	6002.1	7033.8	8344.4	9847.3	11561.9	13466.5	15334.6
-12.5°	2304.4	2993.8	3764.7	4842.3	5952.0	7006.0	8255.1	9707.9	11335.6	13144.6	14904.6
-15°	2235.2	2945.5	3690.9	4723.5	5866.6	6925.3	8117.5	9511.8	10947.2	12617.5	14354.1
-17.5°	2161.4	2877.3	3587.6	4560.5	5746.1	6789.1	7862.7	8994.6	10311.6	11949.8	13665.3
-20°	2086.5	2788.4	3454.2	4352.6	5580.6	6443.1	7321.7	8374.0	9622.8	11147.8	12865.1



REPORT NUMBER: P731591 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-7F-CV2

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2013.3	2678.3	3313.4	4169.9	5139.7	5953.5	6747.5	7694.4	8828.5	10208.5	11713.5
-25°	1958.2	2564.3	3177.1	3871.3	4676.3	5456.2	6131.3	6970.7	8002.4	9182.8	10373.4
-27.5°	1915.4	2463.1	2984.1	3576.6	4240.7	4954.9	5554.3	6275.1	7246.6	8192.0	9110.9
-30°	1869.9	2329.3	2788.7	3304.9	3891.9	4484.1	5004.2	5707.6	6572.0	7387.8	8119.2
-32.5°	1782.0	2187.8	2617.5	3082.8	3575.0	4062.9	4607.2	5273.6	5996.0	6697.5	7284.3
-35°	1677.8	2055.0	2452.7	2863.3	3279.3	3750.9	4293.0	4864.6	5475.9	6110.1	6778.8
-37.5°	1590.5	1916.8	2283.1	2660.0	3044.0	3483.3	3968.4	4493.2	5035.1	5602.3	6256.9
-40°	1496.6	1773.5	2121.9	2471.1	2824.5	3219.8	3665.6	4131.1	4616.8	5154.0	5720.5
-42.5°	1398.8	1662.5	1960.9	2278.4	2610.0	2964.1	3351.9	3784.7	4231.1	4702.9	5209.0
-45°	1314.5	1545.8	1801.9	2097.8	2392.7	2705.9	3056.3	3433.5	3852.4	4272.4	4712.9
-47.5°	1226.0	1429.7	1667.6	1914.3	2185.2	2462.8	2756.2	3111.5	3473.3	3858.3	4240.0
-50°	1137.6	1328.3	1528.0	1755.3	1987.6	2231.0	2488.3	2805.9	3137.9	3461.7	3796.2
-52.5°	1058.4	1222.8	1410.2	1603.3	1810.3	2021.4	2260.0	2536.3	2828.8	3117.1	3415.0
-55°	976.4	1130.4	1295.4	1469.3	1647.0	1834.7	2054.3	2300.5	2541.0	2809.3	3075.9
-57.5°	898.7	1040.8	1190.9	1344.3	1503.9	1666.2	1877.6	2082.2	2305.6	2528.3	2759.6
-60°	822.9	954.4	1092.0	1231.2	1369.6	1532.2	1711.7	1902.1	2092.3	2281.7	2498.0
-62.5°	746.1	871.9	997.2	1123.4	1252.0	1402.8	1573.8	1741.7	1903.7	2084.1	2267.6
-65°	672.7	787.5	905.9	1022.4	1136.6	1282.8	1436.9	1595.8	1753.3	1904.7	2060.6
-67.5°	596.6	701.2	810.3	922.5	1032.3	1159.1	1296.8	1441.4	1588.4	1727.7	1870.6
-70°	516.7	611.0	709.4	811.2	917.6	1030.6	1148.3	1275.0	1405.1	1528.2	1652.6
-72.5°	433.4	515.1	602.2	694.4	786.8	883.8	986.9	1095.7	1202.2	1305.4	1412.9
-75°	352.4	416.4	489.3	566.9	645.7	727.6	813.8	902.5	988.0	1071.8	1158.2
-77.5°	272.8	323.5	378.8	438.2	497.2	560.8	628.2	699.0	765.5	830.8	897.0
-80°	196.8	228.6	269.0	313.0	357.5	402.8	449.4	496.9	539.4	584.1	632.3
-82.5°	129.6	152.5	176.5	201.6	226.8	252.9	281.2	314.7	342.8	370.6	398.5
-85°	68.4	75.5	90.0	105.2	120.1	135.4	151.3	167.7	182.3	196.2	209.4
-87.5°	40.2	44.0	47.9	51.8	55.1	58.4	61.6	64.8	69.3	73.8	78.3
-90°	6.6	6.6	6.6	6.6	6.2	5.8	5.3	4.9	4.9	4.9	4.9



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	18.1	18.9	19.8	20.6	21.4	21.8	22.2	22.6	23.0	23.4	23.9
87.5°	9.0	8.8	8.5	8.2	7.9	9.8	11.8	13.9	16.0	14.6	13.1
85°	18.3	18.2	18.1	17.9	17.6	20.3	23.1	25.9	28.7	26.2	23.6
82.5°	33.7	33.1	31.9	30.3	28.3	28.0	27.5	26.5	25.3	24.1	23.1
80°	53.0	50.6	47.4	43.6	39.2	36.8	34.5	32.0	29.2	28.4	27.7
77.5°	71.8	67.0	61.3	55.2	48.7	44.6	40.9	37.0	32.9	31.8	31.1
75°	84.8	78.8	70.4	61.6	52.3	46.2	41.5	37.0	32.5	30.8	29.9
72.5°	90.8	81.9	71.7	59.8	48.5	41.1	36.5	32.3	28.4	26.8	26.0
70°	86.2	73.6	62.0	50.8	40.2	33.1	29.8	26.9	24.6	23.4	22.7
67.5°	73.5	60.7	49.6	39.8	31.6	26.2	24.4	22.7	21.3	20.5	20.2
65°	57.0	47.1	38.5	31.5	25.9	22.2	20.8	19.5	18.2	17.3	17.0
62.5°	43.2	35.5	30.0	25.6	22.1	19.6	18.6	17.7	16.9	16.4	16.0
60°	34.6	28.1	24.6	22.3	20.2	18.4	18.1	17.9	17.7	17.4	16.7
57.5°	29.6	25.6	23.0	22.4	21.6	20.4	20.0	19.9	19.2	18.0	17.5
55°	28.3	27.3	26.2	26.6	26.6	25.6	24.2	23.1	22.2	21.2	21.4
52.5°	31.5	33.6	34.7	34.7	33.0	30.5	27.7	28.1	28.6	29.0	29.6
50°	42.1	44.7	44.6	41.0	40.8	39.3	36.0	37.5	39.6	40.1	40.4
47.5°	58.4	61.0	62.6	56.2	57.3	60.8	57.1	56.1	63.0	66.1	67.6
45°	85.1	95.5	98.5	100.5	97.6	106.7	106.8	102.6	116.1	123.4	126.0
42.5°	141.8	159.3	173.2	177.3	174.0	185.3	194.0	193.3	210.3	222.4	225.6
40°	237.2	253.8	273.7	281.1	284.4	294.7	316.5	330.6	347.8	366.6	376.2
37.5°	359.7	385.7	389.8	405.0	424.2	433.8	467.1	495.4	518.7	554.0	576.7
35°	539.2	607.8	533.9	568.9	617.5	623.1	653.3	718.8	735.2	797.1	831.3
32.5°	870.3	998.0	981.2	862.4	966.9	1085.4	953.3	1188.2	1167.2	1233.2	1317.2
30°	1373.5	1744.9	1786.1	1612.4	1902.3	2059.6	2034.3	2268.3	2418.2	2399.6	2690.6
27.5°	2450.3	2748.1	2883.4	3132.9	3289.5	3521.4	3929.8	4167.8	4595.8	4820.3	5089.7
25°	3615.7	3967.9	4402.5	4831.5	5157.3	5671.5	6244.7	6695.4	7301.1	7681.1	7958.1
22.5°	4875.5	5497.6	6102.7	6700.2	7358.1	8066.2	8742.4	9523.3	10260.5	10804.8	11216.4
20°	6256.7	7117.5	7973.4	8793.8	9614.5	10561.3	11398.7	12337.1	13242.7	14030.0	14572.1
17.5°	7964.0	8864.1	9957.1	11054.8	12118.1	13290.6	14527.3	15579.7	16849.6	17898.3	18687.2
15°	9823.5	10950.8	12143.7	13516.7	14952.6	16403.3	17903.4	19450.5	20896.1	22237.0	23241.4
12.5°	11743.7	13146.8	14600.3	16120.6	17785.6	19591.1	21476.0	23317.4	25104.8	26578.7	27956.7
10°	13588.2	15341.7	17028.3	18809.7	20727.0	22746.9	24954.3	27147.6	29225.0	31040.6	32523.4
7.5°	15204.4	17108.1	19053.9	21238.3	23514.1	25777.5	28169.1	30629.4	32993.9	35086.6	36820.2
5°	16723.6	18709.7	20681.0	23031.1	25542.1	28139.4	30847.1	33611.0	36163.7	38529.6	40449.5
2.5°	17908.2	19997.2	22024.2	24600.9	27250.6	29895.8	32656.8	35678.6	38526.1	41098.0	42981.8
0°	18631.4	20693.7	22652.3	25417.3	28142.9	30919.5	33964.4	37180.5	40179.3	42643.1	44478.3
-2.5°	18381.2	20393.4	22518.2	25234.3	28115.7	30892.8	33973.0	37218.6	40197.9	42701.7	44493.7
-5°	18037.8	20010.4	22160.9	24878.6	27690.8	30464.6	33501.5	36693.3	39619.3	42082.4	43779.6
-7.5°	17615.5	19519.5	21616.4	24252.2	27048.7	29825.8	32782.0	35802.0	38600.4	41048.8	42645.9
-10°	17116.3	18921.3	20995.8	23530.9	26306.0	28983.1	31792.0	34783.1	37591.5	39818.1	41532.2
-12.5°	16598.4	18356.9	20283.4	22681.9	25338.6	27827.5	30509.4	33389.7	35863.9	38141.0	39647.3
-15°	16005.3	17691.7	19498.2	21709.0	24116.8	26446.4	28776.0	31316.0	33573.7	35598.4	37199.1
-17.5°	15318.9	16916.7	18502.1	20490.0	22795.4	24876.1	26915.8	29127.6	31134.6	32993.6	34379.4
-20°	14370.8	15685.6	17209.0	19110.8	21107.9	22862.9	24723.9	26581.9	28368.7	29942.3	31115.8



REPORT NUMBER: P731591 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-7F-CV2

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	13012.8	14292.2	15703.4	17258.8	18929.7	20541.8	22134.9	23655.0	25108.8	26418.2	27362.8
-25°	11567.2	12735.8	14009.7	15302.6	16636.8	18080.9	19478.2	20733.0	21928.4	22940.2	23718.2
-27.5°	10131.0	11236.1	12349.9	13393.3	14460.4	15666.7	16889.5	17940.1	18952.7	19745.2	20351.8
-30°	8848.1	10029.5	11010.2	11720.2	12754.3	13812.6	14605.4	15561.3	16358.9	16864.7	17516.5
-32.5°	8141.1	9032.2	9921.4	10651.3	11473.1	12401.6	13152.4	13933.3	14606.4	15150.0	15559.9
-35°	7496.3	8279.2	9030.6	9781.5	10515.2	11261.1	11953.1	12612.3	13209.3	13690.0	14069.8
-37.5°	6917.0	7594.7	8274.8	8922.6	9581.7	10205.2	10799.2	11367.8	11869.8	12303.0	12661.0
-40°	6332.0	6937.5	7535.6	8121.4	8697.8	9206.7	9717.5	10187.2	10610.9	10994.3	11307.3
-42.5°	5744.7	6285.0	6808.9	7340.3	7851.8	8293.4	8715.1	9103.5	9466.7	9793.5	10063.5
-45°	5167.3	5644.4	6106.1	6577.9	7009.2	7411.7	7779.4	8106.3	8418.5	8693.9	8920.8
-47.5°	4646.9	5035.4	5447.4	5850.2	6224.5	6587.1	6908.6	7196.5	7470.3	7703.5	7888.7
-50°	4163.3	4518.0	4865.3	5191.6	5541.4	5859.2	6131.3	6396.5	6645.6	6853.7	7009.9
-52.5°	3708.5	4035.8	4348.1	4652.5	4956.0	5238.9	5499.8	5742.4	5959.9	6150.7	6286.1
-55°	3348.5	3616.0	3869.0	4161.9	4440.5	4691.9	4925.6	5161.1	5370.8	5556.0	5669.1
-57.5°	3007.7	3249.1	3489.8	3743.1	3988.1	4224.3	4446.2	4652.6	4845.8	5019.1	5116.5
-60°	2703.5	2898.4	3127.4	3361.0	3583.1	3793.9	4002.3	4195.8	4375.4	4526.2	4612.3
-62.5°	2448.8	2633.8	2827.6	3022.7	3215.0	3411.1	3600.2	3780.0	3950.4	4087.8	4171.5
-65°	2224.1	2391.7	2561.0	2733.8	2909.0	3081.8	3242.7	3400.6	3554.7	3672.5	3747.9
-67.5°	2012.7	2156.8	2299.2	2446.2	2597.1	2746.1	2888.1	3028.1	3165.2	3260.2	3319.3
-70°	1780.9	1908.2	2030.7	2154.5	2277.7	2398.8	2516.2	2633.2	2748.8	2825.2	2875.7
-72.5°	1524.0	1630.4	1729.8	1828.7	1929.4	2029.0	2125.4	2219.3	2309.8	2368.9	2412.6
-75°	1246.6	1327.7	1404.9	1482.9	1561.0	1641.9	1721.6	1798.0	1870.7	1915.0	1948.9
-77.5°	964.2	1021.5	1076.0	1130.9	1185.7	1248.4	1311.8	1373.4	1432.6	1464.0	1487.3
-80°	680.9	721.1	758.3	793.9	827.7	867.6	907.9	946.8	984.2	1002.1	1015.3
-82.5°	426.5	450.1	472.2	493.2	512.9	534.3	554.7	573.6	591.0	599.6	606.1
-85°	221.9	232.2	241.6	250.4	258.4	268.3	277.6	286.3	294.3	296.9	298.7
-87.5°	82.8	85.9	88.8	91.7	94.4	98.2	101.8	105.4	108.9	109.8	110.6
-90°	4.9	4.9	4.9	4.9	4.9	4.5	4.1	3.7	3.3	3.3	3.3



REPORT NUMBER: P731591 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-7F-CV2

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	24.3	24.7	24.7	24.7	24.7	24.7	24.3	23.9	23.4	23.0	22.6
87.5°	11.5	9.9	9.0	8.2	9.0	9.9	11.5	13.1	14.6	16.0	13.9
85°	20.8	18.1	17.3	16.5	17.3	18.1	20.8	23.6	26.2	28.7	25.9
82.5°	22.2	21.4	21.4	21.4	21.4	21.4	22.2	23.1	24.1	25.3	26.5
80°	27.0	26.2	26.3	26.3	26.3	26.2	27.0	27.7	28.4	29.2	32.0
77.5°	30.3	29.6	29.6	29.6	29.6	29.6	30.3	31.1	31.8	32.9	37.0
75°	29.0	28.1	28.0	28.0	28.0	28.1	29.0	29.9	30.8	32.5	37.0
72.5°	25.4	24.8	24.7	24.7	24.7	24.8	25.4	26.0	26.8	28.4	32.3
70°	22.1	21.6	21.4	21.4	21.4	21.6	22.1	22.7	23.4	24.6	26.9
67.5°	20.0	19.9	19.8	19.8	19.8	19.9	20.0	20.2	20.5	21.3	22.7
65°	16.8	16.6	16.5	16.5	16.5	16.6	16.8	17.0	17.3	18.2	19.5
62.5°	15.5	15.0	14.1	13.2	14.1	15.0	15.5	16.0	16.4	16.9	17.7
60°	15.9	15.0	14.8	14.8	14.8	15.0	15.9	16.7	17.4	17.7	17.9
57.5°	17.0	16.6	16.5	16.5	16.5	16.6	17.0	17.5	18.0	19.2	19.9
55°	21.4	21.3	21.3	21.4	21.3	21.3	21.4	21.4	21.2	22.2	23.1
52.5°	29.7	29.5	29.5	29.6	29.5	29.5	29.7	29.6	29.0	28.6	28.1
50°	40.8	40.8	40.3	39.5	40.3	40.8	40.8	40.4	40.1	39.6	37.5
47.5°	68.6	67.6	66.4	65.8	66.4	67.6	68.6	67.6	66.1	63.0	56.1
45°	129.0	128.0	126.1	125.1	126.1	128.0	129.0	126.0	123.4	116.1	102.6
42.5°	230.9	229.0	224.7	222.2	224.7	229.0	230.9	225.6	222.4	210.3	193.3
40°	387.0	389.0	385.7	383.5	385.7	389.0	387.0	376.2	366.6	347.8	330.6
37.5°	594.8	603.5	602.3	599.1	602.3	603.5	594.8	576.7	554.0	518.7	495.4
35°	847.0	856.7	851.7	850.9	851.7	856.7	847.0	831.3	797.1	735.2	718.8
32.5°	1254.1	1239.9	1186.9	1201.5	1186.9	1239.9	1254.1	1317.2	1233.2	1167.2	1188.2
30°	2710.2	2762.3	2613.8	2495.2	2613.8	2762.3	2710.2	2690.6	2399.6	2418.2	2268.3
27.5°	5116.3	5228.7	5207.7	5329.4	5207.7	5228.7	5116.3	5089.7	4820.3	4595.8	4167.8
25°	8066.8	8141.2	8146.0	7926.6	8146.0	8141.2	8066.8	7958.1	7681.1	7301.1	6695.4
22.5°	11368.8	11440.7	11571.9	11572.2	11571.9	11440.7	11368.8	11216.4	10804.8	10260.5	9523.3
20°	14949.1	14962.2	15212.8	15231.0	15212.8	14962.2	14949.1	14572.1	14030.0	13242.7	12337.1
17.5°	19242.4	19451.2	19790.0	19592.6	19790.0	19451.2	19242.4	18687.2	17898.3	16849.6	15579.7
15°	24191.8	24658.3	25020.5	24857.7	25020.5	24658.3	24191.8	23241.4	22237.0	20896.1	19450.5
12.5°	29052.3	29787.7	30137.8	30052.2	30137.8	29787.7	29052.3	27956.7	26578.7	25104.8	23317.4
10°	33678.9	34713.9	35085.7	35216.9	35085.7	34713.9	33678.9	32523.4	31040.6	29225.0	27147.6
7.5°	38114.3	39062.7	39626.3	39390.9	39626.3	39062.7	38114.3	36820.2	35086.6	32993.9	30629.4
5°	41674.0	42475.0	42930.3	42768.2	42930.3	42475.0	41674.0	40449.5	38529.6	36163.7	33611.0
2.5°	44195.0	44943.1	45337.8	45139.2	45337.8	44943.1	44195.0	42981.8	41098.0	38526.1	35678.6
0°	45635.3	46397.4	46844.2	46876.4	46844.2	46397.4	45635.3	44478.3	42643.1	40179.3	37180.5
-2.5°	45579.1	46117.4	46431.5	46271.5	46431.5	46117.4	45579.1	44493.7	42701.7	40197.9	37218.6
-5°	44624.9	45079.5	45242.6	45172.9	45242.6	45079.5	44624.9	43779.6	42082.4	39619.3	36693.3
-7.5°	43447.7	43783.0	43895.0	43811.7	43895.0	43783.0	43447.7	42645.9	41048.8	38600.4	35802.0
-10°	42308.9	42643.8	42700.6	42653.0	42700.6	42643.8	42308.9	41532.2	39818.1	37591.5	34783.1
-12.5°	40650.7	41013.7	41025.5	40915.0	41025.5	41013.7	40650.7	39647.3	38141.0	35863.9	33389.7
-15°	38064.6	38361.4	38409.3	38347.4	38409.3	38361.4	38064.6	37199.1	35598.4	33573.7	31316.0
-17.5°	35190.0	35386.6	35599.6	35837.4	35599.6	35386.6	35190.0	34379.4	32993.6	31134.6	29127.6
-20°	31738.7	31973.8	32225.2	32491.3	32225.2	31973.8	31738.7	31115.8	29942.3	28368.7	26581.9



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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°	27859.9	28124.1	28381.9	28516.5	28381.9	28124.1	27859.9	27362.8	26418.2	25108.8	23655.0
-25°	24107.8	24429.6	24633.1	24755.7	24633.1	24429.6	24107.8	23718.2	22940.2	21928.4	20733.0
-27.5°	20668.1	21049.6	21237.4	21317.5	21237.4	21049.6	20668.1	20351.8	19745.2	18952.7	17940.1
-30°	17771.0	18005.3	18037.7	18159.0	18037.7	18005.3	17771.0	17516.5	16864.7	16358.9	15561.3
-32.5°	15861.0	16121.3	16279.4	16412.7	16279.4	16121.3	15861.0	15559.9	15150.0	14606.4	13933.3
-35°	14364.6	14600.4	14755.5	14819.5	14755.5	14600.4	14364.6	14069.8	13690.0	13209.3	12612.3
-37.5°	12930.4	13108.5	13217.0	13303.7	13217.0	13108.5	12930.4	12661.0	12303.0	11869.8	11367.8
-40°	11547.5	11724.2	11831.5	11860.2	11831.5	11724.2	11547.5	11307.3	10994.3	10610.9	10187.2
-42.5°	10256.9	10392.9	10486.3	10550.1	10486.3	10392.9	10256.9	10063.5	9793.5	9466.7	9103.5
-45°	9088.1	9208.0	9291.1	9342.0	9291.1	9208.0	9088.1	8920.8	8693.9	8418.5	8106.3
-47.5°	8025.1	8121.5	8187.7	8226.1	8187.7	8121.5	8025.1	7888.7	7703.5	7470.3	7196.5
-50°	7126.5	7212.7	7273.8	7311.0	7273.8	7212.7	7126.5	7009.9	6853.7	6645.6	6396.5
-52.5°	6391.8	6475.6	6537.1	6576.9	6537.1	6475.6	6391.8	6286.1	6150.7	5959.9	5742.4
-55°	5763.0	5840.0	5895.7	5931.8	5895.7	5840.0	5763.0	5669.1	5556.0	5370.8	5161.1
-57.5°	5199.2	5267.2	5314.4	5344.2	5314.4	5267.2	5199.2	5116.5	5019.1	4845.8	4652.6
-60°	4685.8	4747.0	4790.5	4820.8	4790.5	4747.0	4685.8	4612.3	4526.2	4375.4	4195.8
-62.5°	4245.5	4309.9	4344.4	4363.2	4344.4	4309.9	4245.5	4171.5	4087.8	3950.4	3780.0
-65°	3817.2	3879.3	3912.8	3932.0	3912.8	3879.3	3817.2	3747.9	3672.5	3554.7	3400.6
-67.5°	3371.4	3416.2	3450.3	3476.1	3450.3	3416.2	3371.4	3319.3	3260.2	3165.2	3028.1
-70°	2919.1	2955.3	2956.4	2946.1	2956.4	2955.3	2919.1	2875.7	2825.2	2748.8	2633.2
-72.5°	2450.4	2482.1	2490.4	2490.2	2490.4	2482.1	2450.4	2412.6	2368.9	2309.8	2219.3
-75°	1978.2	2002.6	2018.9	2029.4	2018.9	2002.6	1978.2	1948.9	1915.0	1870.7	1798.0
-77.5°	1506.4	1521.1	1534.7	1543.8	1534.7	1521.1	1506.4	1487.3	1464.0	1432.6	1373.4
-80°	1025.3	1032.2	1033.7	1032.0	1033.7	1032.2	1025.3	1015.3	1002.1	984.2	946.8
-82.5°	610.7	613.6	610.6	605.7	610.6	613.6	610.7	606.1	599.6	591.0	573.6
-85°	299.6	299.8	299.2	297.9	299.2	299.8	299.6	298.7	296.9	294.3	286.3
-87.5°	111.1	111.6	113.5	115.2	113.5	111.6	111.1	110.6	109.8	108.9	105.4
-90°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.7



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	22.2	21.8	21.4	20.6	19.8	18.9	18.1	17.3	16.5	15.6	14.8
87.5°	11.8	9.8	7.9	8.2	8.5	8.8	9.0	8.5	8.1	7.6	7.3
85°	23.1	20.3	17.6	17.9	18.1	18.2	18.3	17.9	17.3	16.6	15.7
82.5°	27.5	28.0	28.3	30.3	31.9	33.1	33.7	33.8	33.3	32.2	30.4
80°	34.5	36.8	39.2	43.6	47.4	50.6	53.0	54.6	55.7	56.0	54.4
77.5°	40.9	44.6	48.7	55.2	61.3	67.0	71.8	74.7	76.4	77.3	75.3
75°	41.5	46.2	52.3	61.6	70.4	78.8	84.8	88.7	92.1	94.9	92.8
72.5°	36.5	41.1	48.5	59.8	71.7	81.9	90.8	98.3	104.4	109.1	105.2
70°	29.8	33.1	40.2	50.8	62.0	73.6	86.2	99.3	112.7	121.4	114.5
67.5°	24.4	26.2	31.6	39.8	49.6	60.7	73.5	88.4	102.8	116.7	114.1
65°	20.8	22.2	25.9	31.5	38.5	47.1	57.0	69.3	84.5	100.3	101.7
62.5°	18.6	19.6	22.1	25.6	30.0	35.5	43.2	53.5	65.4	75.2	80.3
60°	18.1	18.4	20.2	22.3	24.6	28.1	34.6	41.7	49.6	58.0	62.4
57.5°	20.0	20.4	21.6	22.4	23.0	25.6	29.6	34.2	41.4	46.6	49.8
55°	24.2	25.6	26.6	26.6	26.2	27.3	28.3	30.8	36.1	41.0	45.5
52.5°	27.7	30.5	33.0	34.7	34.7	33.6	31.5	32.3	35.3	40.2	44.3
50°	36.0	39.3	40.8	41.0	44.6	44.7	42.1	38.8	43.5	45.8	46.0
47.5°	57.1	60.8	57.3	56.2	62.6	61.0	58.4	58.1	63.8	59.2	57.2
45°	106.8	106.7	97.6	100.5	98.5	95.5	85.1	94.1	95.7	90.4	74.6
42.5°	194.0	185.3	174.0	177.3	173.2	159.3	141.8	146.4	143.4	132.0	122.6
40°	316.5	294.7	284.4	281.1	273.7	253.8	237.2	213.4	205.6	188.3	185.4
37.5°	467.1	433.8	424.2	405.0	389.8	385.7	359.7	316.4	278.1	294.7	273.6
35°	653.3	623.1	617.5	568.9	533.9	607.8	539.2	453.1	433.3	473.9	404.6
32.5°	953.3	1085.4	966.9	862.4	981.2	998.0	870.3	665.1	766.2	764.2	638.4
30°	2034.3	2059.6	1902.3	1612.4	1786.1	1744.9	1373.5	1324.3	1295.4	1159.2	947.8
27.5°	3929.8	3521.4	3289.5	3132.9	2883.4	2748.1	2450.3	2142.7	1970.4	1721.3	1388.6
25°	6244.7	5671.5	5157.3	4831.5	4402.5	3967.9	3615.7	3181.3	2808.5	2409.2	1942.6
22.5°	8742.4	8066.2	7358.1	6700.2	6102.7	5497.6	4875.5	4255.6	3727.3	3208.0	2614.2
20°	11398.7	10561.3	9614.5	8793.8	7973.4	7117.5	6256.7	5508.4	4822.9	4088.8	3337.2
17.5°	14527.3	13290.6	12118.1	11054.8	9957.1	8864.1	7964.0	7022.8	6024.6	5016.4	4088.0
15°	17903.4	16403.3	14952.6	13516.7	12143.7	10950.8	9823.5	8626.2	7338.4	6045.3	4941.3
12.5°	21476.0	19591.1	17785.6	16120.6	14600.3	13146.8	11743.7	10304.5	8742.8	7209.3	5941.9
10°	24954.3	22746.9	20727.0	18809.7	17028.3	15341.7	13588.2	11846.7	10080.2	8357.1	6907.8
7.5°	28169.1	25777.5	23514.1	21238.3	19053.9	17108.1	15204.4	13291.8	11359.6	9444.0	7832.6
5°	30847.1	28139.4	25542.1	23031.1	20681.0	18709.7	16723.6	14659.7	12564.5	10461.7	8707.6
2.5°	32656.8	29895.8	27250.6	24600.9	22024.2	19997.2	17908.2	15698.8	13405.8	11133.5	9275.8
0°	33964.4	30919.5	28142.9	25417.3	22652.3	20693.7	18631.4	16421.0	14008.1	11664.4	9781.5
-2.5°	33973.0	30892.8	28115.7	25234.3	22518.2	20393.4	18381.2	16240.9	14010.3	11759.2	9896.9
-5°	33501.5	30464.6	27690.8	24878.6	22160.9	20010.4	18037.8	15992.2	13909.5	11769.8	9943.3
-7.5°	32782.0	29825.8	27048.7	24252.2	21616.4	19519.5	17615.5	15698.6	13726.4	11707.6	9926.8
-10°	31792.0	28983.1	26306.0	23530.9	20995.8	18921.3	17116.3	15334.6	13466.5	11561.9	9847.3
-12.5°	30509.4	27827.5	25338.6	22681.9	20283.4	18356.9	16598.4	14904.6	13144.6	11335.6	9707.9
-15°	28776.0	26446.4	24116.8	21709.0	19498.2	17691.7	16005.3	14354.1	12617.5	10947.2	9511.8
-17.5°	26915.8	24876.1	22795.4	20490.0	18502.1	16916.7	15318.9	13665.3	11949.8	10311.6	8994.6
-20°	24723.9	22862.9	21107.9	19110.8	17209.0	15685.6	14370.8	12865.1	11147.8	9622.8	8374.0



REPORT NUMBER: P731591 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	22134.9	20541.8	18929.7	17258.8	15703.4	14292.2	13012.8	11713.5	10208.5	8828.5	7694.4
-25°	19478.2	18080.9	16636.8	15302.6	14009.7	12735.8	11567.2	10373.4	9182.8	8002.4	6970.7
-27.5°	16889.5	15666.7	14460.4	13393.3	12349.9	11236.1	10131.0	9110.9	8192.0	7246.6	6275.1
-30°	14605.4	13812.6	12754.3	11720.2	11010.2	10029.5	8848.1	8119.2	7387.8	6572.0	5707.6
-32.5°	13152.4	12401.6	11473.1	10651.3	9921.4	9032.2	8141.1	7284.3	6697.5	5996.0	5273.6
-35°	11953.1	11261.1	10515.2	9781.5	9030.6	8279.2	7496.3	6778.8	6110.1	5475.9	4864.6
-37.5°	10799.2	10205.2	9581.7	8922.6	8274.8	7594.7	6917.0	6256.9	5602.3	5035.1	4493.2
-40°	9717.5	9206.7	8697.8	8121.4	7535.6	6937.5	6332.0	5720.5	5154.0	4616.8	4131.1
-42.5°	8715.1	8293.4	7851.8	7340.3	6808.9	6285.0	5744.7	5209.0	4702.9	4231.1	3784.7
-45°	7779.4	7411.7	7009.2	6577.9	6106.1	5644.4	5167.3	4712.9	4272.4	3852.4	3433.5
-47.5°	6908.6	6587.1	6224.5	5850.2	5447.4	5035.4	4646.9	4240.0	3858.3	3473.3	3111.5
-50°	6131.3	5859.2	5541.4	5191.6	4865.3	4518.0	4163.3	3796.2	3461.7	3137.9	2805.9
-52.5°	5499.8	5238.9	4956.0	4652.5	4348.1	4035.8	3708.5	3415.0	3117.1	2828.8	2536.3
-55°	4925.6	4691.9	4440.5	4161.9	3869.0	3616.0	3348.5	3075.9	2809.3	2541.0	2300.5
-57.5°	4446.2	4224.3	3988.1	3743.1	3489.8	3249.1	3007.7	2759.6	2528.3	2305.6	2082.2
-60°	4002.3	3793.9	3583.1	3361.0	3127.4	2898.4	2703.5	2498.0	2281.7	2092.3	1902.1
-62.5°	3600.2	3411.1	3215.0	3022.7	2827.6	2633.8	2448.8	2267.6	2084.1	1903.7	1741.7
-65°	3242.7	3081.8	2909.0	2733.8	2561.0	2391.7	2224.1	2060.6	1904.7	1753.3	1595.8
-67.5°	2888.1	2746.1	2597.1	2446.2	2299.2	2156.8	2012.7	1870.6	1727.7	1588.4	1441.4
-70°	2516.2	2398.8	2277.7	2154.5	2030.7	1908.2	1780.9	1652.6	1528.2	1405.1	1275.0
-72.5°	2125.4	2029.0	1929.4	1828.7	1729.8	1630.4	1524.0	1412.9	1305.4	1202.2	1095.7
-75°	1721.6	1641.9	1561.0	1482.9	1404.9	1327.7	1246.6	1158.2	1071.8	988.0	902.5
-77.5°	1311.8	1248.4	1185.7	1130.9	1076.0	1021.5	964.2	897.0	830.8	765.5	699.0
-80°	907.9	867.6	827.7	793.9	758.3	721.1	680.9	632.3	584.1	539.4	496.9
-82.5°	554.7	534.3	512.9	493.2	472.2	450.1	426.5	398.5	370.6	342.8	314.7
-85°	277.6	268.3	258.4	250.4	241.6	232.2	221.9	209.4	196.2	182.3	167.7
-87.5°	101.8	98.2	94.4	91.7	88.8	85.9	82.8	78.3	73.8	69.3	64.8
-90°	4.1	4.5	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9



REPORT NUMBER: P731591 (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°	14.4	14.0	13.6	13.2	12.8	12.4	11.9	11.5	11.1	10.7	10.3
87.5°	8.7	10.0	11.2	12.3	11.7	11.1	10.6	10.1	10.1	10.0	9.8
85°	16.1	16.6	17.3	18.2	17.1	15.6	14.5	13.5	13.5	13.3	13.0
82.5°	27.5	26.1	25.3	24.8	24.4	23.5	22.0	20.0	17.9	16.7	16.2
80°	48.5	43.2	38.5	34.6	32.4	31.4	30.3	28.0	23.4	20.2	18.5
77.5°	67.4	60.1	53.4	47.0	41.4	37.5	35.4	34.2	28.8	23.5	20.1
75°	84.1	74.7	65.9	57.4	49.5	43.0	38.4	35.2	30.8	26.4	21.6
72.5°	95.2	85.6	76.5	66.8	56.4	47.8	41.1	36.1	31.6	27.1	22.6
70°	103.7	94.3	84.6	73.5	62.4	51.9	43.4	37.5	32.4	27.8	23.2
67.5°	109.4	98.1	88.5	79.0	67.5	56.1	45.4	38.9	33.7	28.4	23.7
65°	98.2	94.4	89.7	79.8	70.2	60.0	48.5	40.8	34.9	29.5	24.2
62.5°	83.6	84.1	81.3	78.1	70.4	60.9	51.6	43.8	36.3	30.5	24.9
60°	65.4	69.4	72.0	70.8	67.5	60.7	52.7	46.6	38.7	31.4	25.7
57.5°	54.2	55.7	59.8	62.8	61.8	58.0	53.3	48.0	41.0	33.1	26.6
55°	46.9	49.3	50.8	53.2	55.4	53.6	52.9	48.8	42.8	34.8	27.7
52.5°	46.7	47.5	47.8	47.1	48.2	49.8	50.6	49.6	43.6	36.4	29.6
50°	48.6	52.8	50.1	46.7	43.0	45.7	48.6	48.2	44.5	37.7	31.5
47.5°	57.4	63.3	59.8	50.3	44.6	42.3	46.1	46.8	45.4	38.5	33.4
45°	81.0	80.1	74.7	63.1	49.0	45.2	43.9	45.5	44.4	40.5	35.4
42.5°	113.2	108.6	97.1	78.3	68.4	51.6	42.2	44.2	43.5	42.9	37.4
40°	169.8	145.9	126.2	114.6	97.8	59.8	48.4	43.3	43.1	45.2	39.7
37.5°	236.1	200.4	166.1	166.9	137.9	93.2	56.5	42.8	45.6	47.2	42.1
35°	332.9	269.9	248.6	237.9	195.7	132.4	65.5	46.0	49.2	49.7	44.7
32.5°	444.1	405.0	390.7	327.9	263.3	177.3	92.7	59.1	53.9	52.8	47.4
30°	706.5	644.1	577.4	432.2	343.9	240.5	137.0	72.5	59.6	56.5	50.2
27.5°	1129.5	927.6	807.2	601.3	442.5	312.7	192.6	86.1	66.1	60.8	53.0
25°	1585.9	1302.5	1081.5	815.2	550.2	424.4	255.1	101.4	76.3	66.0	56.1
22.5°	2101.4	1707.9	1385.5	1054.9	721.1	554.1	335.5	150.4	87.9	71.8	59.4
20°	2624.1	2119.1	1731.1	1350.6	944.0	701.4	436.6	202.2	99.4	77.9	62.9
17.5°	3170.8	2642.0	2203.3	1688.4	1193.6	856.6	546.0	256.0	110.8	84.4	66.5
15°	4006.9	3307.5	2710.2	2056.9	1441.1	1017.4	661.2	310.5	121.9	91.0	73.8
12.5°	4875.7	3985.3	3238.9	2447.0	1683.9	1181.1	779.6	364.8	132.8	104.9	85.8
10°	5722.6	4666.2	3779.1	2848.3	1919.4	1345.0	898.1	436.4	165.4	124.7	98.1
7.5°	6540.1	5340.5	4319.7	3249.8	2163.6	1560.3	1112.9	547.7	202.3	144.8	110.5
5°	7275.3	5932.1	4830.2	3671.0	2496.8	1825.6	1342.2	658.4	239.7	164.9	122.8
2.5°	7769.6	6383.3	5299.6	4064.3	2814.7	2080.8	1565.1	765.1	276.8	184.8	134.8
0°	8208.0	6790.9	5731.0	4420.8	3114.0	2324.0	1774.3	864.1	312.7	204.1	146.5
-2.5°	8318.9	6891.7	5864.2	4638.9	3365.9	2546.3	1963.2	1017.0	429.3	276.2	192.3
-5°	8371.6	6958.6	5963.7	4821.0	3594.2	2753.5	2129.4	1156.7	541.7	346.4	236.9
-7.5°	8382.8	7012.3	6016.6	4952.0	3797.2	2944.3	2270.9	1281.3	647.9	413.4	279.7
-10°	8344.4	7033.8	6002.1	4918.0	3810.0	3022.9	2365.4	1388.8	745.5	476.3	320.0
-12.5°	8255.1	7006.0	5952.0	4842.3	3764.7	2993.8	2304.4	1429.6	829.5	534.0	357.3
-15°	8117.5	6925.3	5866.6	4723.5	3690.9	2945.5	2235.2	1435.9	880.8	584.6	390.9
-17.5°	7862.7	6789.1	5746.1	4560.5	3587.6	2877.3	2161.4	1433.6	924.8	628.2	422.9
-20°	7321.7	6443.1	5580.6	4352.6	3454.2	2788.4	2086.5	1423.7	960.9	665.9	452.8



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	6747.5	5953.5	5139.7	4169.9	3313.4	2678.3	2013.3	1407.1	988.9	697.3	478.3
-25°	6131.3	5456.2	4676.3	3871.3	3177.1	2564.3	1958.2	1384.8	1008.6	722.0	499.1
-27.5°	5554.3	4954.9	4240.7	3576.6	2984.1	2463.1	1915.4	1398.8	1024.9	739.6	515.0
-30°	5004.2	4484.1	3891.9	3304.9	2788.7	2329.3	1869.9	1404.4	1042.1	754.4	525.7
-32.5°	4607.2	4062.9	3575.0	3082.8	2617.5	2187.8	1782.0	1399.5	1049.6	764.7	534.0
-35°	4293.0	3750.9	3279.3	2863.3	2452.7	2055.0	1677.8	1384.0	1047.4	767.8	538.1
-37.5°	3968.4	3483.3	3044.0	2660.0	2283.1	1916.8	1590.5	1316.4	1035.3	763.6	536.8
-40°	3665.6	3219.8	2824.5	2471.1	2121.9	1773.5	1496.6	1248.7	1020.7	752.0	530.3
-42.5°	3351.9	2964.1	2610.0	2278.4	1960.9	1662.5	1398.8	1176.7	971.6	737.0	518.5
-45°	3056.3	2705.9	2392.7	2097.8	1801.9	1545.8	1314.5	1102.4	915.1	717.0	503.7
-47.5°	2756.2	2462.8	2185.2	1914.3	1667.6	1429.7	1226.0	1036.2	855.8	689.5	487.4
-50°	2488.3	2231.0	1987.6	1755.3	1528.0	1328.3	1137.6	967.0	801.6	641.3	466.2
-52.5°	2260.0	2021.4	1810.3	1603.3	1410.2	1222.8	1058.4	896.0	745.0	596.0	440.2
-55°	2054.3	1834.7	1647.0	1469.3	1295.4	1130.4	976.4	830.9	686.2	550.7	410.4
-57.5°	1877.6	1666.2	1503.9	1344.3	1190.9	1040.8	898.7	763.5	630.9	503.2	383.3
-60°	1711.7	1532.2	1369.6	1231.2	1092.0	954.4	822.9	696.3	575.1	455.3	349.3
-62.5°	1573.8	1402.8	1252.0	1123.4	997.2	871.9	746.1	631.6	517.1	410.7	311.8
-65°	1436.9	1282.8	1136.6	1022.4	905.9	787.5	672.7	564.8	461.0	363.7	275.0
-67.5°	1296.8	1159.1	1032.3	922.5	810.3	701.2	596.6	497.3	403.3	314.6	242.6
-70°	1148.3	1030.6	917.6	811.2	709.4	611.0	516.7	427.9	343.4	272.5	208.6
-72.5°	986.9	883.8	786.8	694.4	602.2	515.1	433.4	357.8	290.4	228.8	173.2
-75°	813.8	727.6	645.7	566.9	489.3	416.4	352.4	292.8	235.6	183.5	141.0
-77.5°	628.2	560.8	497.2	438.2	378.8	323.5	272.8	225.8	181.7	143.9	109.6
-80°	449.4	402.8	357.5	313.0	269.0	228.6	196.8	165.9	133.6	104.0	77.3
-82.5°	281.2	252.9	226.8	201.6	176.5	152.5	129.6	107.7	84.5	63.4	51.1
-85°	151.3	135.4	120.1	105.2	90.0	75.5	68.4	61.4	52.8	44.9	37.6
-87.5°	61.6	58.4	55.1	51.8	47.9	44.0	40.2	36.5	32.0	27.9	24.0
-90°	5.3	5.8	6.2	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6



REPORT NUMBER: P731591 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	9.9	9.5	9.1	8.6	8.2	7.4	6.6
87.5°	9.6	8.8	8.2	7.6	7.2	6.9	6.6
85°	12.5	11.0	9.7	8.6	7.7	7.1	6.6
82.5°	15.5	13.2	11.3	9.6	8.3	7.3	6.6
80°	18.0	15.4	12.8	10.6	8.9	7.6	6.6
77.5°	18.4	16.8	14.3	11.6	9.4	7.8	6.6
75°	18.7	16.9	15.5	12.6	10.0	8.1	6.6
72.5°	18.9	16.9	15.4	13.5	10.5	8.3	6.6
70°	19.2	16.9	15.3	14.2	11.0	8.5	6.6
67.5°	19.8	16.9	15.2	14.0	11.5	8.8	6.6
65°	20.4	17.2	15.0	13.8	12.0	9.0	6.6
62.5°	21.1	17.7	14.8	13.6	12.5	9.2	6.6
60°	21.7	18.3	14.6	13.3	13.0	9.4	6.6
57.5°	22.7	18.8	15.0	13.1	12.9	9.6	6.6
55°	23.7	19.3	15.4	12.8	12.8	9.8	6.6
52.5°	24.8	19.9	15.9	12.5	12.7	10.0	6.6
50°	25.8	20.9	16.3	12.2	12.7	10.2	6.6
47.5°	27.0	21.8	16.7	12.1	12.6	10.3	6.6
45°	28.7	22.7	17.0	12.3	12.6	10.5	6.6
42.5°	30.3	23.5	17.4	12.6	12.6	10.6	6.6
40°	32.0	24.4	17.9	13.1	12.6	10.8	6.6
37.5°	33.6	25.3	18.5	13.8	12.7	10.9	6.6
35°	35.1	26.4	19.2	14.5	12.7	11.0	6.6
32.5°	36.8	27.6	19.7	15.3	12.8	11.1	6.6
30°	38.9	28.7	20.3	16.0	12.9	11.2	6.6
27.5°	41.1	29.8	21.9	16.8	13.0	11.3	6.6
25°	43.2	30.8	23.7	17.6	13.2	11.4	6.6
22.5°	45.3	32.6	25.6	18.3	13.3	11.4	6.6
20°	47.4	36.8	27.6	19.1	13.5	11.5	6.6
17.5°	52.9	41.1	29.6	19.9	13.6	11.5	6.6
15°	60.7	45.6	31.6	20.7	13.8	11.5	6.6
12.5°	68.6	50.1	33.6	21.4	14.0	11.6	6.6
10°	76.5	54.8	35.6	22.2	14.2	11.6	6.6
7.5°	84.4	59.4	37.5	22.9	14.3	11.6	6.6
5°	92.2	63.9	39.4	23.5	14.5	11.6	6.6
2.5°	99.8	68.3	41.1	24.1	14.6	11.5	6.6
0°	107.0	72.4	42.8	24.7	14.8	11.5	6.6
-2.5°	134.7	87.9	51.1	28.3	15.9	11.7	6.6
-5°	161.7	103.0	59.2	31.9	16.9	11.9	6.6
-7.5°	187.5	117.4	67.0	35.3	17.9	12.1	6.6
-10°	211.8	131.0	74.3	38.5	18.9	12.3	6.6
-12.5°	234.2	143.6	81.2	41.5	19.8	12.4	6.6
-15°	254.4	155.0	87.4	44.2	20.7	12.6	6.6
-17.5°	272.1	165.2	92.9	46.7	21.5	12.7	6.6
-20°	289.5	173.9	97.7	48.8	22.3	12.8	6.6



REPORT NUMBER: P731591 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-7F-CV2

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	307.9	181.0	101.6	50.5	22.9	12.9	6.6
-25°	323.1	190.4	104.6	51.9	23.5	13.0	6.6
-27.5°	335.0	199.3	106.6	52.8	23.9	13.0	6.6
-30°	343.4	205.9	108.0	53.3	24.3	13.0	6.6
-32.5°	348.2	210.3	111.3	53.3	24.6	13.0	6.6
-35°	351.9	212.3	113.3	52.9	24.7	13.0	6.6
-37.5°	353.3	212.8	114.0	52.0	24.8	13.0	6.6
-40°	351.0	212.9	113.2	50.5	24.7	12.9	6.6
-42.5°	345.1	210.7	112.2	49.2	24.5	12.8	6.6
-45°	335.5	206.4	111.2	48.3	24.2	12.7	6.6
-47.5°	322.2	199.9	108.9	46.8	23.8	12.6	6.6
-50°	309.9	191.1	105.5	46.3	23.3	12.4	6.6
-52.5°	295.3	180.3	100.9	45.8	22.6	12.2	6.6
-55°	277.6	171.1	95.3	44.8	21.9	12.0	6.6
-57.5°	257.1	160.9	88.5	43.2	21.0	11.8	6.6
-60°	234.5	149.1	81.0	41.1	20.1	11.5	6.6
-62.5°	215.6	135.7	75.5	38.6	19.3	11.3	6.6
-65°	194.5	120.9	69.3	35.5	18.5	11.0	6.6
-67.5°	171.6	106.9	62.2	32.1	17.7	10.7	6.6
-70°	146.9	93.8	54.4	28.3	16.8	10.4	6.6
-72.5°	124.8	79.6	46.0	25.9	15.8	10.0	6.6
-75°	102.1	64.5	37.0	23.7	14.8	9.7	6.6
-77.5°	78.2	48.6	31.8	21.3	13.8	9.3	6.6
-80°	53.4	38.4	27.5	18.9	12.7	8.9	6.6
-82.5°	41.4	31.4	23.0	16.4	11.6	8.6	6.6
-85°	31.1	24.2	18.4	13.9	10.5	8.2	6.6
-87.5°	20.5	16.8	13.8	11.3	9.3	7.8	6.6
-90°	6.6	6.6	6.6	6.6	6.6	6.6	6.6

(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

