

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: P735974 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-40-80-4S-VHE-S**

Issue Date: 1/29/2024

Test Information

Test Method: LM-79-08
Report Number: P735974 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320L-40-80-4S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 4S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

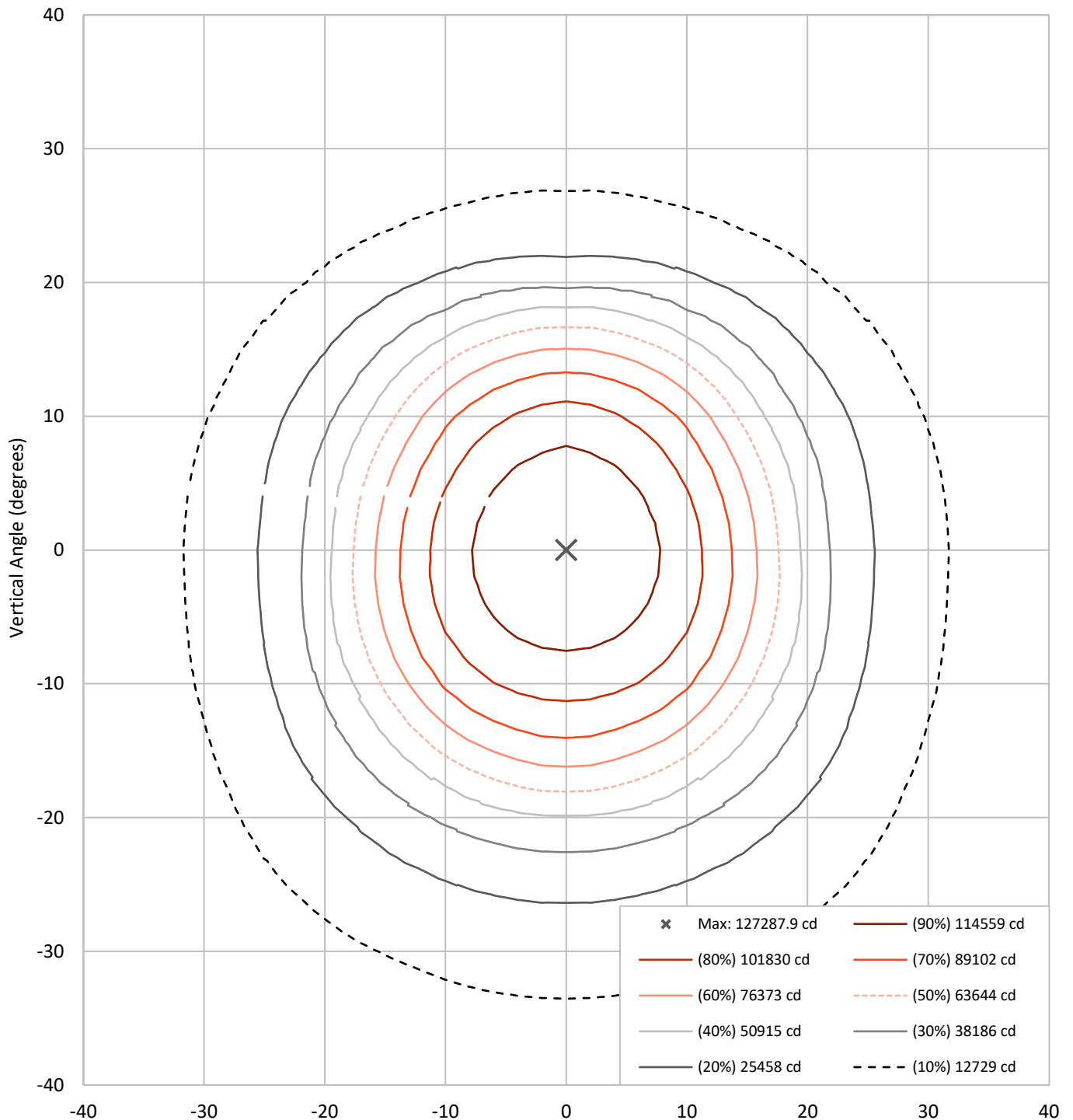
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	52801.6 lumens	Max Intensity:	127287.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	153.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	35.2°H x 34.7°V	Field Angle (10%):	63.4°H x 60.3°V
Beam Lumens:	28340.2 lumens	Field Lumens:	46117.9 lumens
Beam Efficiency:	53.7%	Field Efficiency:	87.3%

Input Watts (W): 344.2
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





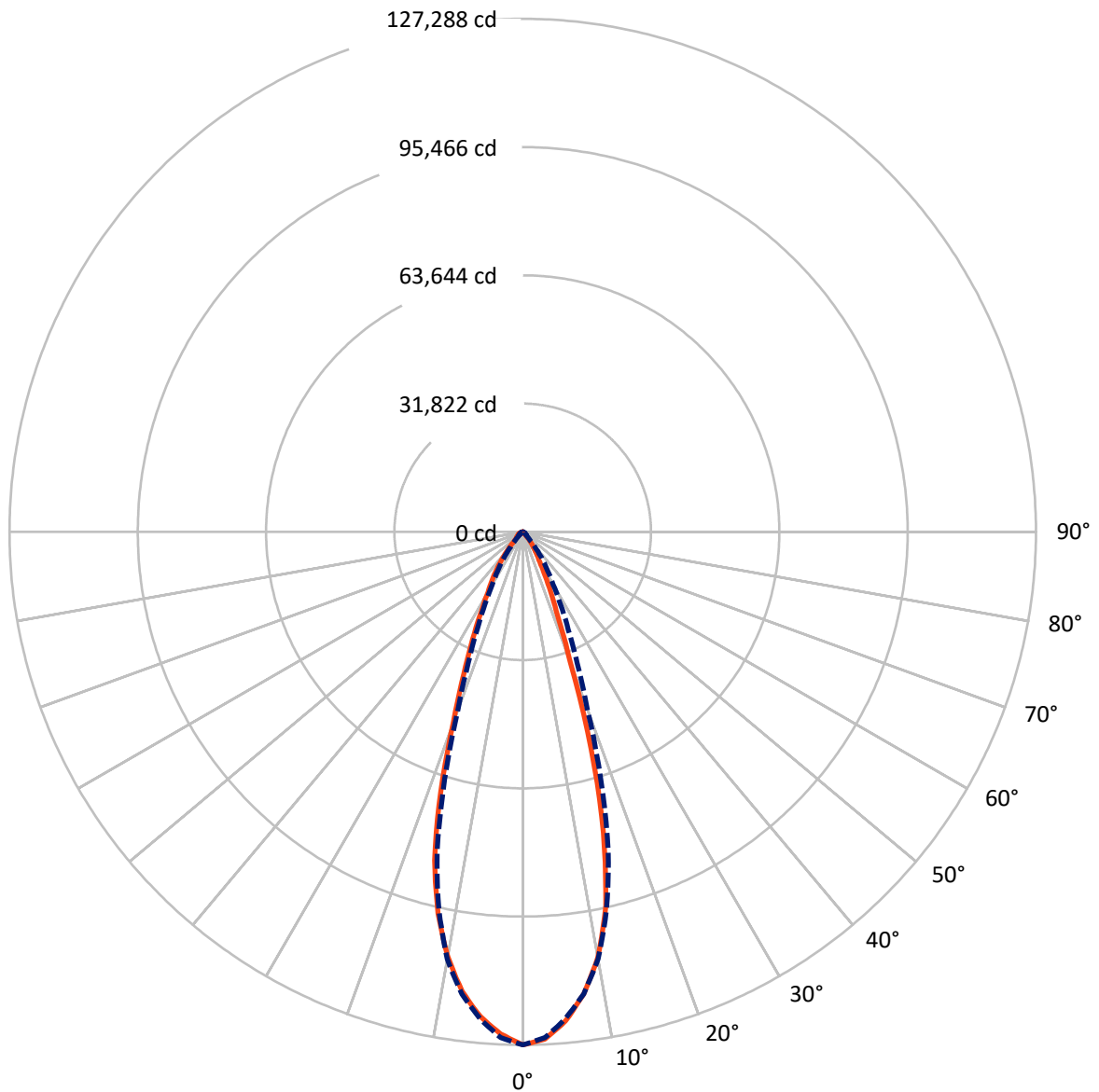
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Lumen Table

90	0.2		0.6		1.0		1.4		1.6		1.4		1.0		0.6		0.2	
80	0.2		0.1	0.1	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.1	0.1	0.2	
70	0.2		0.2	0.4	0.7	0.7	0.5	0.6	0.7	0.7	0.6	0.5	0.7	0.7	0.4	0.2	0.2	
60	0.5		0.7	1.5	3.0	5.5	8.8	12.8	16.5	16.5	12.8	8.8	5.5	3.0	1.5	0.7	0.5	
50	0.5		1.6	5.0	9.6	15.8	36.5	81.5	132.0	132.0	81.5	36.5	15.8	9.6	5.0	1.6	0.5	
40	1.2		2.8	8.4	16.2	51.0	156.8	342.1	518.7	518.7	342.1	156.8	51.0	16.2	8.4	2.8	1.2	
30	1.2		3.7	11.0	26.0	132.6	439.9	1175.3	2088.4	2088.4	1175.3	439.9	132.6	26.0	11.0	3.7	1.2	
20	1.7		4.6	12.9	36.0	207.6	722.0	2136.8	3421.7	3421.7	2136.8	722.0	207.6	36.0	12.9	4.6	1.7	
10	1.7		5.1	14.3	40.3	222.5	758.3	2240.2	3448.8	3448.8	2240.2	758.3	222.5	40.3	14.3	5.1	1.7	
0	2.0		5.3	15.1	37.1	177.6	560.1	1410.1	2316.7	2316.7	1410.1	560.1	177.6	37.1	15.1	5.3	2.0	
-10	2.0		4.9	15.1	31.8	97.7	311.1	610.7	882.0	882.0	610.7	311.1	97.7	31.8	15.1	4.9	2.0	
-20	1.8		4.2	13.6	26.6	46.9	115.4	232.6	321.5	321.5	232.6	115.4	46.9	26.6	13.6	4.2	1.8	
-30	1.8		3.3	10.2	21.3	33.6	46.6	63.5	81.4	81.4	63.5	46.6	33.6	21.3	10.2	3.3	1.8	
-40	1.6		2.5	6.3	13.8	23.9	32.2	38.9	43.6	43.6	38.9	32.2	23.9	13.8	6.3	2.5	1.6	
-50	1.6		1.8	3.7	7.0	12.0	17.0	21.6	24.7	24.7	21.6	17.0	12.0	7.0	3.7	1.8	1.6	
-60	1.6		1.8	3.7	7.0	12.0	17.0	21.6	24.7	24.7	21.6	17.0	12.0	7.0	3.7	1.8	1.6	
-70	1.6		1.8	3.7	7.0	12.0	17.0	21.6	24.7	24.7	21.6	17.0	12.0	7.0	3.7	1.8	1.6	
-80	1.1		6.7		15.1		24.4		29.9		24.4		15.1		6.7		1.1	
-90	1.1		6.7		15.1		24.4		29.9		24.4		15.1		6.7		1.1	

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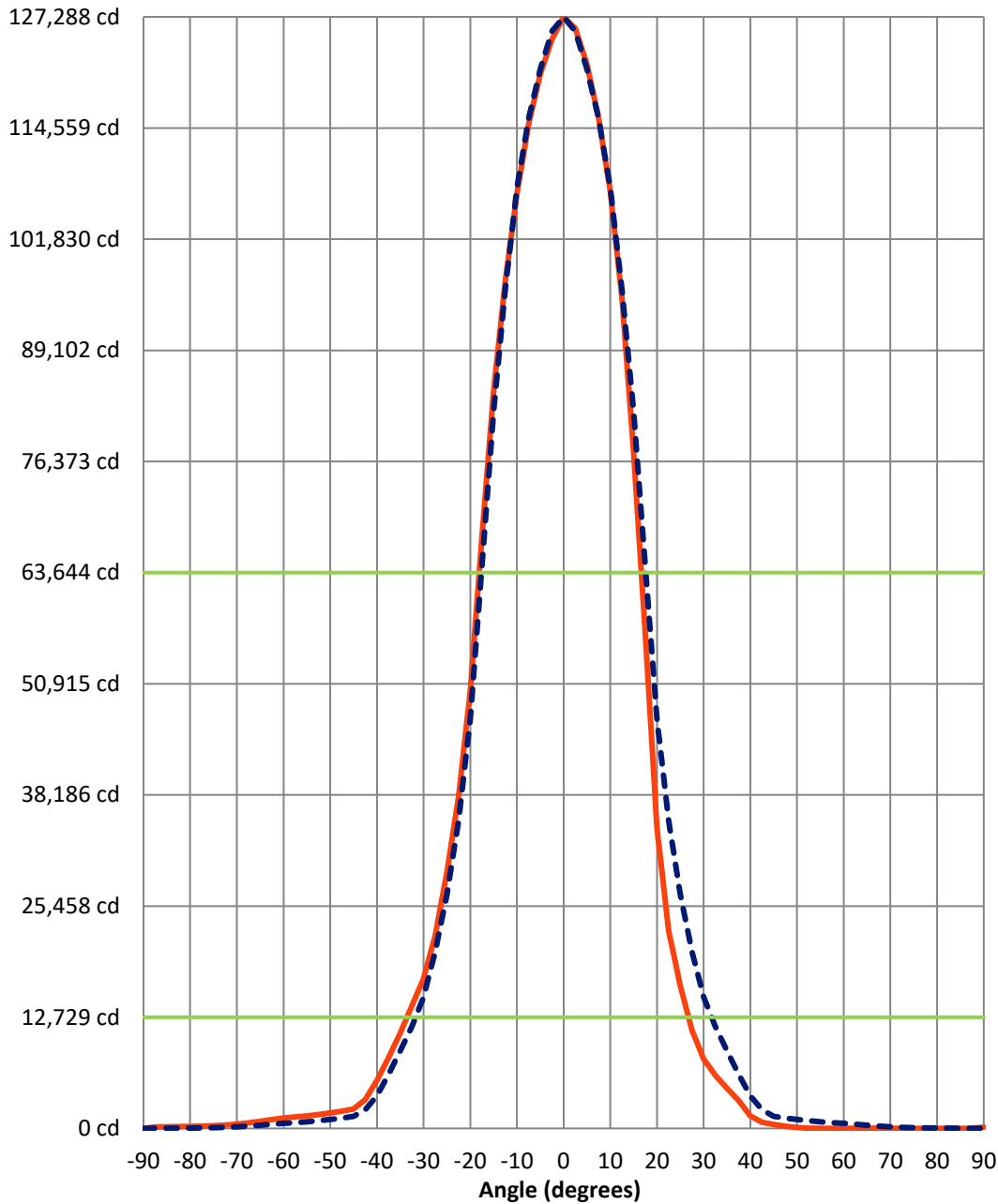
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 35.2°
 V Angle: 34.7°
 Lumens: 28340.2
 Efficiency: 53.7%

Field:
 H Angle: 63.4°
 V Angle: 60.3°
 Lumens: 46117.9
 Efficiency: 87.3%

Spill:
 Lumens: 6683.6
 Efficiency: 12.7%

— 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	10.7	15.7	25.8	35.9	45.0	54.2	61.4	68.6	73.4	78.1
87.5°	5.7	5.2	4.5	4.6	4.6	4.6	4.6	4.3	4.0	4.0	4.1
85°	5.7	5.3	4.6	4.7	4.9	4.8	4.7	4.5	4.2	4.3	4.3
82.5°	5.7	5.4	4.8	4.9	5.1	5.0	4.9	4.7	4.4	4.5	4.6
80°	5.7	5.5	4.9	5.1	5.3	5.2	5.1	5.0	4.9	4.9	4.8
77.5°	5.7	5.6	5.0	5.2	5.5	5.5	5.4	5.4	5.4	5.3	5.1
75°	5.7	5.7	5.2	5.4	5.7	5.8	5.8	5.8	5.8	5.6	5.2
72.5°	5.7	5.8	5.3	5.6	6.0	6.0	6.1	6.2	6.1	5.7	5.3
70°	5.7	6.0	5.5	5.7	6.2	6.3	6.5	6.5	6.4	6.0	5.8
67.5°	5.7	6.1	5.6	6.0	6.4	6.6	6.9	6.9	6.7	6.5	6.4
65°	5.7	6.2	5.8	6.2	6.7	7.0	7.4	7.3	7.4	7.1	7.2
62.5°	5.7	6.3	6.0	6.5	6.9	7.6	7.9	8.1	8.3	7.9	8.5
60°	5.7	6.5	6.2	6.7	7.2	8.2	8.5	9.2	9.3	10.0	10.2
57.5°	5.7	6.6	6.5	7.0	7.9	8.8	9.7	10.4	11.6	12.4	13.8
55°	5.7	6.7	6.9	7.3	8.6	9.5	11.0	11.7	14.3	15.6	18.5
52.5°	5.7	6.9	7.3	7.6	9.3	10.3	12.4	14.5	17.3	21.1	23.6
50°	5.7	7.0	7.7	7.8	10.1	11.7	13.8	17.6	21.2	26.9	30.5
47.5°	5.7	7.1	8.1	8.2	10.9	13.2	15.5	20.8	27.0	33.2	38.4
45°	5.7	7.3	8.6	8.8	11.8	14.8	18.4	24.1	33.1	40.9	46.8
42.5°	5.7	7.4	9.1	9.5	12.6	16.4	21.3	28.8	39.5	49.0	60.3
40°	5.7	7.5	9.6	10.4	13.7	18.1	24.4	34.5	46.5	57.5	76.0
37.5°	5.7	7.7	10.1	11.5	15.1	19.8	27.6	40.3	54.6	68.5	92.9
35°	5.7	7.8	10.6	12.6	16.4	22.2	30.9	46.3	63.0	84.3	113.5
32.5°	5.7	7.9	11.2	13.8	17.7	24.7	34.6	52.2	71.7	100.3	137.0
30°	5.7	8.1	11.7	14.9	19.1	27.3	39.4	58.3	80.7	116.7	159.4
27.5°	5.7	8.2	12.3	16.0	20.9	29.7	44.1	64.9	90.6	133.4	180.6
25°	5.7	8.3	12.9	17.2	22.8	32.2	48.6	71.2	102.0	150.7	200.8
22.5°	5.7	8.4	13.4	18.3	24.6	34.7	53.0	77.2	112.7	164.2	221.4
20°	5.7	8.6	14.0	19.5	26.4	37.6	57.2	82.9	122.6	176.8	238.1
17.5°	5.7	8.7	14.6	20.6	28.1	40.4	61.5	88.2	131.7	188.4	253.7
15°	5.7	8.8	15.2	21.7	29.8	43.1	65.8	93.5	140.0	199.1	268.4
12.5°	5.7	8.9	15.8	22.8	31.4	45.7	69.8	98.9	148.4	208.8	282.0
10°	5.7	9.0	16.3	23.8	32.9	48.1	73.6	104.0	156.7	221.3	296.9
7.5°	5.7	9.1	16.8	24.9	34.4	50.5	77.1	108.7	164.1	233.6	316.2
5°	5.7	9.2	17.4	25.9	35.8	52.7	80.2	113.0	170.8	245.1	334.3
2.5°	5.7	9.3	17.8	26.8	37.1	54.8	83.1	116.9	176.6	255.4	351.0
0°	5.7	9.4	18.3	27.7	38.4	56.7	85.6	120.3	181.4	264.5	365.9
-2.5°	5.7	9.7	19.0	28.9	40.2	59.0	88.6	124.4	187.8	271.9	373.4
-5°	5.7	10.1	19.7	30.0	41.9	61.1	91.1	128.0	193.0	277.8	378.8
-7.5°	5.7	10.4	20.3	31.1	43.5	63.0	93.4	131.1	197.2	282.2	382.3
-10°	5.7	10.7	20.9	32.0	45.0	64.7	95.2	133.6	200.0	284.9	383.7
-12.5°	5.7	11.0	21.4	33.0	46.4	66.2	96.7	135.4	201.5	285.9	385.4
-15°	5.7	11.3	21.9	33.8	47.6	67.5	97.7	136.6	201.3	284.6	385.3
-17.5°	5.7	11.6	22.4	34.6	48.7	68.6	98.4	137.4	199.3	281.5	382.1
-20°	5.7	11.8	22.8	35.2	49.7	69.5	98.9	137.8	196.2	276.4	375.5



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 CATALOG NUMBER: EPH-LS-08-0320L-40-80-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	5.7	12.1	23.2	35.8	50.6	70.2	99.3	137.6	191.8	269.4	365.7
-25°	5.7	12.3	23.5	36.3	51.3	71.0	99.4	136.8	186.2	260.3	355.5
-27.5°	5.7	12.5	23.8	36.8	51.8	71.7	99.0	135.4	179.5	252.6	346.7
-30°	5.7	12.7	24.0	37.1	52.3	72.2	98.1	133.4	175.5	245.4	335.3
-32.5°	5.7	12.8	24.2	37.3	53.0	72.5	96.8	131.6	173.1	236.3	321.0
-35°	5.7	13.0	24.3	37.4	53.5	72.4	96.3	129.7	169.8	225.3	303.7
-37.5°	5.7	13.1	24.4	37.5	53.9	72.5	96.0	127.0	165.5	212.4	287.2
-40°	5.7	13.2	24.5	37.4	54.2	72.8	95.4	123.7	160.3	204.1	271.1
-42.5°	5.7	13.3	24.5	37.4	54.3	72.9	94.4	119.7	155.2	197.2	253.1
-45°	5.7	13.3	24.4	37.4	54.4	72.8	92.9	116.2	149.7	189.2	234.8
-47.5°	5.7	13.3	24.3	37.4	54.4	72.6	91.2	114.2	143.4	179.8	224.1
-50°	5.7	13.3	24.2	37.4	54.1	72.1	90.3	111.8	136.2	171.5	211.9
-52.5°	5.7	13.3	24.0	37.4	53.8	71.5	89.3	109.0	131.5	162.1	197.9
-55°	5.7	13.3	23.7	37.2	53.2	70.6	88.1	106.0	127.5	151.7	184.4
-57.5°	5.7	13.2	23.4	36.9	52.5	69.5	86.7	104.3	123.1	145.1	170.0
-60°	5.7	13.1	23.1	36.6	51.7	68.2	85.1	102.2	118.6	139.2	157.2
-62.5°	5.7	13.0	22.7	36.1	51.0	66.8	83.2	99.7	115.5	132.5	149.0
-65°	5.7	12.9	22.3	35.6	50.1	65.1	81.0	96.8	112.0	127.0	140.5
-67.5°	5.7	12.8	21.9	35.0	49.2	63.4	78.7	93.6	108.1	121.9	133.8
-70°	5.7	12.6	21.4	34.2	48.1	61.7	76.1	90.2	104.1	116.5	127.7
-72.5°	5.7	12.4	20.8	33.4	46.9	59.9	73.5	86.6	99.8	111.1	121.5
-75°	5.7	12.2	20.2	32.6	45.5	57.8	70.7	82.9	95.3	105.5	115.0
-77.5°	5.7	12.0	19.5	31.6	44.1	55.6	67.7	79.0	90.6	99.7	108.3
-80°	5.7	11.8	18.8	30.6	42.7	53.6	64.5	75.0	85.6	93.8	101.6
-82.5°	5.7	11.5	18.1	29.5	41.1	51.6	62.0	71.2	80.5	87.7	94.8
-85°	5.7	11.3	17.3	28.3	39.5	49.5	59.5	68.0	76.6	82.6	88.6
-87.5°	5.7	11.0	16.5	27.1	37.7	47.3	56.9	64.8	72.7	78.0	83.4
-90°	5.7	5.1	4.4	4.4	4.4	4.4	4.4	4.1	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°	81.6	85.0	88.2	91.3	95.1	98.9	102.7	106.4	110.5	114.6	118.7
87.5°	3.8	3.5	3.5	3.5	3.2	2.9	2.7	2.5	2.5	2.5	2.4
85°	4.1	3.8	3.8	3.8	3.5	3.3	3.0	2.8	2.8	2.8	2.7
82.5°	4.4	4.1	4.0	3.8	3.7	3.8	3.5	3.2	3.2	3.1	2.9
80°	4.6	4.4	4.2	4.0	3.9	3.8	3.7	3.7	3.5	3.2	3.2
77.5°	4.8	4.5	4.3	4.3	4.2	3.9	3.8	3.8	3.7	3.7	3.5
75°	4.8	4.5	4.5	4.4	4.2	3.9	3.8	3.9	4.0	3.9	3.7
72.5°	5.0	4.9	4.7	4.5	4.4	4.2	4.2	4.3	4.7	5.0	5.3
70°	5.6	5.3	5.2	5.0	4.8	4.8	5.3	6.4	7.4	7.9	8.9
67.5°	6.2	6.0	5.9	5.7	5.7	6.2	6.9	9.3	11.3	12.7	14.2
65°	6.9	6.8	6.8	6.8	6.9	8.8	10.9	13.2	16.8	18.8	18.8
62.5°	7.7	8.7	8.3	8.8	10.6	12.6	15.8	19.9	24.4	26.2	25.0
60°	10.9	11.4	11.6	13.0	14.8	17.0	21.4	26.4	31.6	34.7	30.0
57.5°	15.0	15.7	16.9	17.7	19.6	21.0	26.1	32.2	35.5	37.6	32.3
55°	20.2	21.1	22.9	23.2	24.9	25.5	29.8	34.0	36.8	37.4	31.7
52.5°	26.7	27.8	30.3	30.7	30.8	31.3	31.9	36.5	38.8	38.2	33.0
50°	33.7	37.6	39.0	40.4	38.5	39.3	37.2	42.6	47.1	45.9	47.5
47.5°	44.1	49.0	50.9	53.6	52.2	56.5	55.0	65.2	68.7	89.0	93.6
45°	56.6	65.2	67.9	73.9	80.0	85.0	101.4	102.8	145.7	163.6	197.3
42.5°	71.6	85.1	96.1	98.4	127.6	143.2	166.0	203.5	241.1	275.6	298.6
40°	93.9	107.9	131.5	158.9	190.0	223.5	253.9	297.4	333.9	361.0	377.3
37.5°	119.3	145.9	178.0	227.6	269.5	303.7	338.2	375.8	410.1	434.0	465.1
35°	147.1	186.0	245.5	297.0	342.0	374.2	407.9	447.8	480.2	518.7	557.0
32.5°	181.0	226.9	301.5	357.1	393.7	431.8	470.7	512.6	559.1	606.5	655.6
30°	214.4	272.9	345.8	403.7	439.1	483.4	530.7	579.9	640.8	700.5	766.9
27.5°	240.8	312.4	381.8	441.6	482.8	535.3	593.0	657.2	729.6	802.7	890.8
25°	264.3	341.8	418.0	481.4	533.8	591.9	659.8	736.9	823.0	925.7	1202.7
22.5°	287.2	370.4	458.0	524.0	582.9	648.7	730.5	820.4	921.8	1058.2	1548.3
20°	310.7	402.9	496.3	559.5	627.8	701.5	797.3	901.7	1027.4	1349.7	2072.5
17.5°	334.9	436.3	529.0	590.7	662.6	752.5	863.9	981.6	1134.8	1622.6	2729.0
15°	358.5	467.9	555.1	618.2	697.5	802.1	926.6	1070.8	1325.0	2003.5	3386.9
12.5°	381.1	496.2	574.6	641.9	732.0	848.9	984.7	1146.6	1548.5	2517.6	4104.4
10°	402.3	521.3	591.4	664.5	765.7	892.9	1036.8	1213.3	1743.6	2928.3	4672.5
7.5°	425.3	542.8	606.7	686.0	796.8	933.1	1079.7	1264.6	1889.0	3243.3	5094.4
5°	446.1	560.2	624.4	711.1	827.6	969.4	1116.4	1307.6	1988.3	3442.9	5387.2
2.5°	464.3	574.2	640.8	735.0	856.6	1001.2	1149.7	1350.7	2076.8	3611.6	5757.8
0°	479.8	585.0	655.5	756.3	881.6	1027.7	1176.9	1385.4	2136.0	3725.3	6187.5
-2.5°	489.3	601.2	680.1	778.6	902.3	1046.5	1201.5	1422.4	2196.0	3971.0	6351.1
-5°	496.1	614.3	702.1	798.2	919.0	1060.2	1219.6	1448.6	2221.7	4038.6	6303.4
-7.5°	500.1	623.9	721.0	815.3	933.9	1076.1	1248.0	1483.7	2233.4	3872.0	6033.3
-10°	502.2	631.9	733.4	829.4	947.8	1090.7	1270.1	1506.4	2185.4	3647.3	5722.6
-12.5°	507.6	638.7	743.2	839.9	957.0	1101.3	1287.3	1523.4	2076.1	3338.5	5295.4
-15°	509.0	642.2	751.5	847.1	966.6	1116.7	1300.4	1526.4	1918.3	2939.5	4750.0
-17.5°	506.2	642.4	757.2	852.7	971.4	1122.6	1304.5	1518.0	1800.4	2649.6	4201.3
-20°	498.8	634.8	758.9	853.3	969.6	1125.0	1306.6	1514.3	1771.6	2353.2	3535.9



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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°	486.8	623.0	752.8	852.4	975.9	1126.1	1300.6	1492.0	1709.3	1995.6	2873.5
-25°	474.0	606.2	736.9	855.4	977.1	1120.8	1275.2	1450.8	1651.6	1875.5	2400.8
-27.5°	460.1	586.5	720.5	851.6	971.2	1101.2	1244.5	1409.2	1574.4	1755.3	1979.1
-30°	443.4	565.1	698.5	837.7	957.1	1078.5	1210.7	1343.8	1492.0	1654.8	1844.3
-32.5°	423.3	540.0	671.4	808.9	938.4	1052.2	1162.7	1282.3	1414.5	1558.0	1714.8
-35°	401.4	514.5	639.5	773.8	915.6	1020.2	1116.2	1219.6	1336.7	1467.8	1613.5
-37.5°	379.3	485.1	602.1	733.0	871.0	980.4	1066.9	1163.4	1266.5	1378.8	1514.2
-40°	354.1	451.2	563.1	686.8	809.1	927.4	1022.4	1109.9	1200.6	1303.3	1413.9
-42.5°	327.1	418.2	520.4	632.5	743.6	856.3	975.4	1061.4	1142.5	1229.7	1326.6
-45°	304.5	381.8	474.2	573.9	674.1	783.3	898.1	1013.1	1087.1	1162.6	1245.2
-47.5°	278.3	344.9	429.4	512.5	604.9	707.8	816.6	923.2	1028.3	1101.8	1171.3
-50°	253.3	313.6	378.2	454.6	536.9	632.0	731.7	829.1	927.7	1027.2	1106.4
-52.5°	236.1	280.1	336.1	396.5	472.6	556.6	644.0	730.9	823.5	918.4	1009.8
-55°	217.6	255.3	295.1	346.5	409.2	484.0	556.7	634.5	714.0	801.6	890.6
-57.5°	199.9	231.1	262.4	301.4	354.2	411.4	475.1	539.0	611.0	684.4	760.6
-60°	182.4	208.0	234.6	265.7	302.0	350.3	396.5	452.1	511.9	572.2	640.0
-62.5°	165.6	186.5	208.7	235.0	265.3	293.8	331.9	375.1	418.3	471.7	526.5
-65°	155.8	167.4	184.8	207.6	231.2	256.4	281.2	307.6	345.2	385.1	424.1
-67.5°	145.3	156.0	166.9	180.9	201.7	221.3	241.3	264.5	288.4	314.3	342.7
-70°	137.5	145.0	154.6	165.7	176.4	188.4	206.1	224.6	243.0	263.1	285.4
-72.5°	130.1	137.0	144.3	152.1	161.5	170.6	179.9	189.9	204.4	222.1	238.6
-75°	122.6	129.0	135.6	142.4	149.6	156.4	163.8	172.8	182.8	193.6	203.7
-77.5°	115.0	120.9	126.9	132.8	139.3	146.0	152.3	158.8	166.6	174.9	182.9
-80°	107.5	112.8	118.3	123.8	129.5	135.3	140.9	146.3	153.0	160.2	167.3
-82.5°	100.1	105.1	109.9	114.7	119.6	124.4	129.5	134.6	140.7	147.0	153.0
-85°	93.1	97.5	101.5	105.6	110.1	114.5	118.8	123.1	128.8	134.4	139.6
-87.5°	87.3	91.3	94.7	98.2	102.2	106.1	109.8	113.5	118.3	123.2	127.6
-90°	3.5	3.1	3.1	3.1	2.8	2.5	2.5	2.5	2.5	2.5	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°	122.8	125.7	128.5	130.4	132.2	135.1	137.9	142.0	146.1	149.6	153.0
87.5°	2.4	2.2	1.9	1.9	1.8	1.9	1.9	1.6	1.3	1.3	1.3
85°	2.5	2.4	2.3	2.4	2.4	2.2	1.9	1.9	1.9	1.9	1.9
82.5°	2.8	2.7	2.5	2.5	2.5	2.4	2.4	2.2	1.9	1.9	1.9
80°	3.1	2.9	2.8	2.7	2.5	2.5	2.5	2.2	1.9	1.9	1.9
77.5°	3.2	3.2	3.1	2.9	2.6	2.5	2.5	2.2	1.9	1.9	1.9
75°	3.7	3.7	3.6	3.5	3.4	3.5	3.7	3.6	3.5	3.3	3.0
72.5°	5.7	5.7	5.5	5.9	6.2	6.5	6.7	6.9	7.1	7.6	8.1
70°	10.0	10.8	10.8	10.8	10.8	10.4	10.1	10.0	10.1	10.2	10.4
67.5°	15.1	15.8	16.0	16.2	14.7	13.8	13.4	13.5	14.0	15.2	16.8
65°	19.3	18.1	17.1	15.9	16.1	16.0	15.3	14.9	15.4	16.1	16.9
62.5°	22.9	18.2	15.2	13.7	14.0	14.5	13.1	12.0	11.6	11.4	11.5
60°	24.6	17.2	12.1	10.3	9.2	8.6	7.7	6.6	6.2	6.1	6.3
57.5°	24.9	16.4	9.7	7.6	5.8	4.5	3.8	3.3	3.3	3.2	3.1
55°	24.1	16.5	9.3	8.5	7.8	7.2	6.2	6.0	5.7	5.7	6.1
52.5°	25.0	23.2	18.9	18.4	22.4	22.6	19.4	23.9	26.9	29.3	30.4
50°	49.4	47.5	60.0	60.0	72.6	83.5	80.3	86.6	97.6	107.1	112.9
47.5°	115.5	124.5	143.3	160.1	179.1	203.1	213.8	221.4	230.9	243.7	252.3
45°	215.1	237.5	261.9	289.2	320.9	349.1	365.5	381.3	391.7	403.1	416.6
42.5°	319.3	346.2	382.3	414.9	449.3	482.1	508.0	530.9	575.4	638.8	689.3
40°	408.6	439.1	481.1	524.5	565.0	606.6	721.0	818.5	939.9	1121.1	1281.8
37.5°	497.2	532.5	579.3	632.6	754.9	878.7	1128.5	1398.2	1632.0	1894.1	2158.8
35°	593.8	640.2	702.8	881.9	1108.3	1438.4	1796.6	2197.2	2537.3	2903.3	3439.5
32.5°	707.9	788.9	991.2	1316.8	1722.8	2191.7	2636.0	3139.6	3564.4	4236.8	5055.7
30°	854.9	1108.8	1497.4	1946.9	2494.7	3088.3	3645.3	4461.1	5414.1	6257.8	6954.5
27.5°	1209.5	1700.0	2242.5	2812.1	3498.2	4217.4	5385.3	6441.1	7466.5	8377.5	9435.9
25°	1739.0	2526.0	3453.1	4216.7	5149.0	6448.8	7769.4	8932.2	10490.7	11861.4	13399.1
22.5°	2488.0	3608.6	4802.8	5917.7	7349.3	8977.3	10754.1	12896.6	15061.6	17466.5	19606.0
20°	3219.0	4636.7	6149.1	7754.2	9587.7	11623.1	14527.4	18004.5	21340.7	25129.5	28324.3
17.5°	4192.5	5906.3	7694.9	9735.3	12092.5	15224.0	19510.9	24265.3	29424.3	35081.9	40313.7
15°	5182.5	7028.8	9107.1	11718.4	15052.7	19308.7	24777.7	31250.0	38794.5	47111.5	57222.7
12.5°	5993.8	8012.7	10442.9	13733.7	18094.6	23786.4	30412.4	38203.7	48546.9	61091.1	72838.6
10°	6687.0	9107.8	12178.7	16073.4	21202.9	27628.3	35155.5	44801.5	58734.4	73266.5	86158.2
7.5°	7401.1	10264.8	13517.1	17739.8	23572.1	30865.5	40134.5	52730.9	68060.7	82965.8	94788.0
5°	8074.5	11053.9	14361.6	18873.1	25180.3	33013.4	43530.1	58872.6	75554.7	90153.3	101260.2
2.5°	8602.0	11450.7	14806.3	19717.1	26049.6	34180.8	45658.7	62670.4	80170.0	94557.6	105946.9
0°	8875.7	11665.9	15053.1	20245.0	26770.6	35252.1	46879.0	64346.4	82047.4	96058.3	107666.9
-2.5°	8815.1	11562.0	14900.3	19837.6	26605.8	35446.0	47893.7	65219.8	82370.7	96570.2	107510.7
-5°	8687.7	11398.4	14690.6	19337.1	26015.8	34958.7	46791.9	62721.1	79285.0	93850.4	104486.3
-7.5°	8450.4	11124.4	14272.2	18604.9	25037.8	33506.4	44184.7	58026.6	73916.9	88510.4	98806.8
-10°	8101.2	10701.1	13671.9	17612.3	23389.6	31167.9	40246.4	51055.9	65920.6	79564.7	91005.3
-12.5°	7604.8	10102.3	12839.1	16225.1	21399.0	28253.7	36080.2	45061.6	55685.6	68844.4	79568.2
-15°	6973.2	9322.0	11865.0	15059.9	19386.1	25002.6	31601.3	38568.7	46711.7	55794.9	66247.8
-17.5°	6198.0	8404.4	10772.5	13526.9	17025.6	21737.9	26957.8	32394.4	38272.0	44956.5	51097.6
-20°	5273.7	7291.8	9523.5	12085.4	15083.4	18487.1	22281.6	26676.7	31232.6	36003.5	40224.5



REPORT NUMBER: P735974 (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°	4335.0	6176.1	8302.8	10542.9	13148.6	15746.6	18295.3	21563.1	25081.4	28535.3	31677.2
-25°	3391.9	5017.2	6994.5	9095.6	11187.0	13309.2	15378.5	17407.7	19939.5	22162.6	24468.6
-27.5°	2694.1	3910.0	5570.3	7403.9	9226.3	10997.1	12786.2	14481.2	16077.8	17420.4	18975.1
-30°	2118.8	2939.5	4222.1	5664.9	7259.5	8819.8	10361.4	11793.3	13050.6	14156.1	15235.7
-32.5°	1915.7	2250.8	3013.0	4109.4	5367.4	6736.3	8024.9	9254.8	10291.3	11318.6	12286.0
-35°	1772.1	1956.6	2205.8	2890.7	3710.0	4799.3	5809.4	6830.1	7700.6	8726.7	9520.0
-37.5°	1654.4	1796.5	1954.1	2115.6	2613.8	3159.2	3886.5	4651.6	5324.1	6184.8	6885.2
-40°	1540.5	1666.3	1789.4	1912.2	2044.7	2166.4	2599.4	2993.9	3450.1	4038.8	4542.5
-42.5°	1430.3	1541.1	1647.8	1747.6	1840.2	1920.1	2007.2	2090.6	2337.0	2637.0	2867.5
-45°	1331.4	1425.6	1514.9	1599.3	1669.8	1733.8	1800.9	1870.8	1962.3	2045.6	2114.3
-47.5°	1247.3	1321.8	1395.0	1463.7	1517.9	1572.5	1625.9	1686.2	1757.5	1827.4	1885.9
-50°	1171.3	1235.7	1291.3	1340.0	1385.0	1431.2	1473.8	1527.3	1584.7	1642.5	1690.9
-52.5°	1098.5	1155.8	1202.2	1239.3	1273.6	1311.2	1347.9	1390.6	1437.2	1485.8	1524.2
-55°	976.1	1048.9	1116.3	1151.1	1178.0	1209.1	1240.1	1274.7	1314.1	1354.9	1385.4
-57.5°	840.8	912.7	976.2	1021.4	1066.0	1111.6	1145.7	1172.8	1208.4	1243.3	1269.6
-60°	705.0	765.3	821.3	867.0	913.5	959.1	997.5	1032.9	1076.9	1116.9	1149.4
-62.5°	578.5	631.2	674.5	711.5	751.2	790.8	827.4	862.2	902.2	938.1	968.6
-65°	463.6	507.8	539.8	568.9	600.4	633.3	662.2	691.1	723.2	752.0	777.0
-67.5°	374.9	404.2	424.1	442.7	467.7	493.2	515.9	538.9	563.5	585.3	604.2
-70°	306.9	325.2	337.5	351.6	369.5	385.9	400.7	417.5	435.6	452.3	467.4
-72.5°	254.4	267.0	276.2	287.5	298.8	309.2	318.6	330.7	343.8	356.7	369.0
-75°	213.1	221.3	230.0	238.2	246.0	253.5	260.5	270.2	280.3	290.0	299.3
-77.5°	191.2	197.3	202.2	206.7	211.0	215.9	220.7	228.8	237.7	245.2	252.2
-80°	174.2	179.0	183.0	186.5	189.7	193.7	197.7	204.4	211.3	217.6	223.7
-82.5°	159.0	163.1	166.8	170.0	173.1	176.5	179.8	185.7	191.7	197.1	202.3
-85°	144.8	148.3	151.7	154.5	157.3	160.5	163.5	168.7	173.8	178.6	183.3
-87.5°	132.0	135.2	138.3	140.4	142.5	145.5	148.5	153.1	157.7	161.8	166.0
-90°	1.9	1.9	1.9	1.6	1.3	1.3	1.3	1.3	1.3	1.0	0.6



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	154.9	156.8	157.1	157.4	157.1	156.8	154.9	153.0	149.6	146.1	142.0
87.5°	0.9	0.6	0.9	1.3	0.9	0.6	0.9	1.3	1.3	1.3	1.6
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.2
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.2
77.5°	1.6	1.3	1.6	1.9	1.6	1.3	1.6	1.9	1.9	1.9	2.2
75°	2.8	2.5	2.2	1.9	2.2	2.5	2.8	3.0	3.3	3.5	3.6
72.5°	8.4	8.6	9.0	9.4	9.0	8.6	8.4	8.1	7.6	7.1	6.9
70°	10.1	9.5	9.4	9.4	9.4	9.5	10.1	10.4	10.2	10.1	10.0
67.5°	18.1	19.0	19.4	19.5	19.4	19.0	18.1	16.8	15.2	14.0	13.5
65°	17.6	18.2	18.3	18.3	18.3	18.2	17.6	16.9	16.1	15.4	14.9
62.5°	11.7	12.1	12.3	12.6	12.3	12.1	11.7	11.5	11.4	11.6	12.0
60°	6.6	7.0	7.3	7.6	7.3	7.0	6.6	6.3	6.1	6.2	6.6
57.5°	3.1	3.2	3.4	3.8	3.4	3.2	3.1	3.1	3.2	3.3	3.3
55°	6.3	6.7	6.8	6.9	6.8	6.7	6.3	6.1	5.7	5.7	6.0
52.5°	29.8	28.4	27.3	26.4	27.3	28.4	29.8	30.4	29.3	26.9	23.9
50°	115.4	112.5	109.4	106.4	109.4	112.5	115.4	112.9	107.1	97.6	86.6
47.5°	257.4	255.1	250.4	244.3	250.4	255.1	257.4	252.3	243.7	230.9	221.4
45°	435.1	447.7	453.3	450.2	453.3	447.7	435.1	416.6	403.1	391.7	381.3
42.5°	706.5	717.6	718.6	702.1	718.6	717.6	706.5	689.3	638.8	575.4	530.9
40°	1398.1	1494.9	1528.1	1428.2	1528.1	1494.9	1398.1	1281.8	1121.1	939.9	818.5
37.5°	2477.8	2858.5	3176.0	3188.2	3176.0	2858.5	2477.8	2158.8	1894.1	1632.0	1398.2
35°	4015.7	4407.4	4596.7	4588.7	4596.7	4407.4	4015.7	3439.5	2903.3	2537.3	2197.2
32.5°	5644.2	5940.9	6130.5	6084.8	6130.5	5940.9	5644.2	5055.7	4236.8	3564.4	3139.6
30°	7452.1	7727.4	7948.3	7945.0	7948.3	7727.4	7452.1	6954.5	6257.8	5414.1	4461.1
27.5°	10297.3	10864.6	11315.4	11239.0	11315.4	10864.6	10297.3	9435.9	8377.5	7466.5	6441.1
25°	14696.1	15733.6	16467.2	16316.3	16467.2	15733.6	14696.1	13399.1	11861.4	10490.7	8932.2
22.5°	21194.2	22525.3	23081.8	22640.4	23081.8	22525.3	21194.2	19606.0	17466.5	15061.6	12896.6
20°	31367.9	33835.6	35369.8	34454.9	35369.8	33835.6	31367.9	28324.3	25129.5	21340.7	18004.5
17.5°	47085.2	52438.6	56668.5	56551.9	56668.5	52438.6	47085.2	40313.7	35081.9	29424.3	24265.3
15°	66026.0	72119.3	76811.1	77353.6	76811.1	72119.3	66026.0	57222.7	47111.5	38794.5	31250.0
12.5°	82985.6	89182.4	93773.8	95094.9	93773.8	89182.4	82985.6	72838.6	61091.1	48546.9	38203.7
10°	95072.6	101256.6	105700.6	107267.7	105700.6	101256.6	95072.6	86158.2	73266.5	58734.4	44801.5
7.5°	103939.5	110648.6	113979.8	115682.5	113979.8	110648.6	103939.5	94788.0	82965.8	68060.7	52730.9
5°	110319.8	116555.1	119777.8	121841.0	119777.8	116555.1	110319.8	101260.2	90153.3	75554.7	58872.6
2.5°	114341.8	120228.5	124098.5	125949.2	124098.5	120228.5	114341.8	105946.9	94557.6	80170.0	62670.4
0°	115640.0	121291.2	125629.0	127287.9	125629.0	121291.2	115640.0	107666.9	96058.3	82047.4	64346.4
-2.5°	115036.1	120572.0	124031.7	124702.3	124031.7	120572.0	115036.1	107510.7	96570.2	82370.7	65219.8
-5°	111893.8	116996.1	120190.7	120715.7	120190.7	116996.1	111893.8	104486.3	93850.4	79285.0	62721.1
-7.5°	106476.7	111566.3	114206.9	114984.4	114206.9	111566.3	106476.7	98806.8	88510.4	73916.9	58026.6
-10°	98622.2	103539.5	106361.6	107030.9	106361.6	103539.5	98622.2	91005.3	79564.7	65920.6	51055.9
-12.5°	87904.6	93150.3	96308.9	97004.8	96308.9	93150.3	87904.6	79568.2	68844.4	55685.6	45061.6
-15°	74007.1	79403.0	83435.2	84410.7	83435.2	79403.0	74007.1	66247.8	55794.9	46711.7	38568.7
-17.5°	57987.4	63387.1	67010.4	67702.1	67010.4	63387.1	57987.4	51097.6	44956.5	38272.0	32394.4
-20°	44190.2	47663.0	49707.9	50064.1	49707.9	47663.0	44190.2	40224.5	36003.5	31232.6	26676.7



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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°	34244.8	36578.8	37823.8	37999.5	37823.8	36578.8	34244.8	31677.2	28535.3	25081.4	21563.1
-25°	26536.4	28232.3	29159.6	29314.0	29159.6	28232.3	26536.4	24468.6	22162.6	19939.5	17407.7
-27.5°	20375.4	21428.9	22291.7	22112.1	22291.7	21428.9	20375.4	18975.1	17420.4	16077.8	14481.2
-30°	16122.8	16798.5	17308.1	17174.6	17308.1	16798.5	16122.8	15235.7	14156.1	13050.6	11793.3
-32.5°	13049.2	13578.6	13936.8	14032.3	13936.8	13578.6	13049.2	12286.0	11318.6	10291.3	9254.8
-35°	10142.5	10575.0	10823.3	10919.7	10823.3	10575.0	10142.5	9520.0	8726.7	7700.6	6830.1
-37.5°	7405.1	7784.5	8021.3	8103.7	8021.3	7784.5	7405.1	6885.2	6184.8	5324.1	4651.6
-40°	4928.2	5220.6	5414.6	5489.8	5414.6	5220.6	4928.2	4542.5	4038.8	3450.1	2993.9
-42.5°	3047.1	3183.9	3270.6	3297.8	3270.6	3183.9	3047.1	2867.5	2637.0	2337.0	2090.6
-45°	2167.4	2205.2	2226.9	2231.0	2226.9	2205.2	2167.4	2114.3	2045.6	1962.3	1870.8
-47.5°	1931.5	1961.3	1976.6	1977.3	1976.6	1961.3	1931.5	1885.9	1827.4	1757.5	1686.2
-50°	1730.8	1758.4	1772.3	1773.2	1772.3	1758.4	1730.8	1690.9	1642.5	1584.7	1527.3
-52.5°	1555.7	1577.7	1587.9	1588.1	1587.9	1577.7	1555.7	1524.2	1485.8	1437.2	1390.6
-55°	1410.4	1427.5	1433.8	1432.6	1433.8	1427.5	1410.4	1385.4	1354.9	1314.1	1274.7
-57.5°	1291.4	1308.2	1313.4	1311.7	1313.4	1308.2	1291.4	1269.6	1243.3	1208.4	1172.8
-60°	1174.8	1192.7	1199.5	1199.0	1199.5	1192.7	1174.8	1149.4	1116.9	1076.9	1032.9
-62.5°	990.4	1004.1	1011.5	1013.8	1011.5	1004.1	990.4	968.6	938.1	902.2	862.2
-65°	794.2	805.1	811.0	812.9	811.0	805.1	794.2	777.0	752.0	723.2	691.1
-67.5°	616.5	624.3	628.1	629.1	628.1	624.3	616.5	604.2	585.3	563.5	538.9
-70°	476.8	483.2	486.3	487.4	486.3	483.2	476.8	467.4	452.3	435.6	417.5
-72.5°	376.0	381.2	383.3	384.1	383.3	381.2	376.0	369.0	356.7	343.8	330.7
-75°	303.6	306.7	308.0	308.6	308.0	306.7	303.6	299.3	290.0	280.3	270.2
-77.5°	256.1	259.4	260.5	261.3	260.5	259.4	256.1	252.2	245.2	237.7	228.8
-80°	226.5	228.8	229.8	230.5	229.8	228.8	226.5	223.7	217.6	211.3	204.4
-82.5°	205.7	208.8	209.0	209.1	209.0	208.8	205.7	202.3	197.1	191.7	185.7
-85°	185.8	188.1	188.6	188.9	188.6	188.1	185.8	183.3	178.6	173.8	168.7
-87.5°	168.3	170.5	170.6	170.6	170.6	170.5	168.3	166.0	161.8	157.7	153.1
-90°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.0	1.3	1.3



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	137.9	135.1	132.2	130.4	128.5	125.7	122.8	118.7	114.6	110.5	106.4
87.5°	1.9	1.9	1.8	1.9	1.9	2.2	2.4	2.4	2.5	2.5	2.5
85°	1.9	2.2	2.4	2.4	2.3	2.4	2.5	2.7	2.8	2.8	2.8
82.5°	2.4	2.4	2.5	2.5	2.5	2.7	2.8	2.9	3.1	3.2	3.2
80°	2.5	2.5	2.5	2.7	2.8	2.9	3.1	3.2	3.2	3.5	3.7
77.5°	2.5	2.5	2.6	2.9	3.1	3.2	3.2	3.5	3.7	3.7	3.8
75°	3.7	3.5	3.4	3.5	3.6	3.7	3.7	3.7	3.9	4.0	3.9
72.5°	6.7	6.5	6.2	5.9	5.5	5.7	5.7	5.3	5.0	4.7	4.3
70°	10.1	10.4	10.8	10.8	10.8	10.8	10.0	8.9	7.9	7.4	6.4
67.5°	13.4	13.8	14.7	16.2	16.0	15.8	15.1	14.2	12.7	11.3	9.3
65°	15.3	16.0	16.1	15.9	17.1	18.1	19.3	18.8	18.8	16.8	13.2
62.5°	13.1	14.5	14.0	13.7	15.2	18.2	22.9	25.0	26.2	24.4	19.9
60°	7.7	8.6	9.2	10.3	12.1	17.2	24.6	30.0	34.7	31.6	26.4
57.5°	3.8	4.5	5.8	7.6	9.7	16.4	24.9	32.3	37.6	35.5	32.2
55°	6.2	7.2	7.8	8.5	9.3	16.5	24.1	31.7	37.4	36.8	34.0
52.5°	19.4	22.6	22.4	18.4	18.9	23.2	25.0	33.0	38.2	38.8	36.5
50°	80.3	83.5	72.6	60.0	60.0	47.5	49.4	47.5	45.9	47.1	42.6
47.5°	213.8	203.1	179.1	160.1	143.3	124.5	115.5	93.6	89.0	68.7	65.2
45°	365.5	349.1	320.9	289.2	261.9	237.5	215.1	197.3	163.6	145.7	102.8
42.5°	508.0	482.1	449.3	414.9	382.3	346.2	319.3	298.6	275.6	241.1	203.5
40°	721.0	606.6	565.0	524.5	481.1	439.1	408.6	377.3	361.0	333.9	297.4
37.5°	1128.5	878.7	754.9	632.6	579.3	532.5	497.2	465.1	434.0	410.1	375.8
35°	1796.6	1438.4	1108.3	881.9	702.8	640.2	593.8	557.0	518.7	480.2	447.8
32.5°	2636.0	2191.7	1722.8	1316.8	991.2	788.9	707.9	655.6	606.5	559.1	512.6
30°	3645.3	3088.3	2494.7	1946.9	1497.4	1108.8	854.9	766.9	700.5	640.8	579.9
27.5°	5385.3	4217.4	3498.2	2812.1	2242.5	1700.0	1209.5	890.8	802.7	729.6	657.2
25°	7769.4	6448.8	5149.0	4216.7	3453.1	2526.0	1739.0	1202.7	925.7	823.0	736.9
22.5°	10754.1	8977.3	7349.3	5917.7	4802.8	3608.6	2488.0	1548.3	1058.2	921.8	820.4
20°	14527.4	11623.1	9587.7	7754.2	6149.1	4636.7	3219.0	2072.5	1349.7	1027.4	901.7
17.5°	19510.9	15224.0	12092.5	9735.3	7694.9	5906.3	4192.5	2729.0	1622.6	1134.8	981.6
15°	24777.7	19308.7	15052.7	11718.4	9107.1	7028.8	5182.5	3386.9	2003.5	1325.0	1070.8
12.5°	30412.4	23786.4	18094.6	13733.7	10442.9	8012.7	5993.8	4104.4	2517.6	1548.5	1146.6
10°	35155.5	27628.3	21202.9	16073.4	12178.7	9107.8	6687.0	4672.5	2928.3	1743.6	1213.3
7.5°	40134.5	30865.5	23572.1	17739.8	13517.1	10264.8	7401.1	5094.4	3243.3	1889.0	1264.6
5°	43530.1	33013.4	25180.3	18873.1	14361.6	11053.9	8074.5	5387.2	3442.9	1988.3	1307.6
2.5°	45658.7	34180.8	26049.6	19717.1	14806.3	11450.7	8602.0	5757.8	3611.6	2076.8	1350.7
0°	46879.0	35252.1	26770.6	20245.0	15053.1	11665.9	8875.7	6187.5	3725.3	2136.0	1385.4
-2.5°	47893.7	35446.0	26605.8	19837.6	14900.3	11562.0	8815.1	6351.1	3971.0	2196.0	1422.4
-5°	46791.9	34958.7	26015.8	19337.1	14690.6	11398.4	8687.7	6303.4	4038.6	2221.7	1448.6
-7.5°	44184.7	33506.4	25037.8	18604.9	14272.2	11124.4	8450.4	6033.3	3872.0	2233.4	1483.7
-10°	40246.4	31167.9	23389.6	17612.3	13671.9	10701.1	8101.2	5722.6	3647.3	2185.4	1506.4
-12.5°	36080.2	28253.7	21399.0	16225.1	12839.1	10102.3	7604.8	5295.4	3338.5	2076.1	1523.4
-15°	31601.3	25002.6	19386.1	15059.9	11865.0	9322.0	6973.2	4750.0	2939.5	1918.3	1526.4
-17.5°	26957.8	21737.9	17025.6	13526.9	10772.5	8404.4	6198.0	4201.3	2649.6	1800.4	1518.0
-20°	22281.6	18487.1	15083.4	12085.4	9523.5	7291.8	5273.7	3535.9	2353.2	1771.6	1514.3



REPORT NUMBER: P735974 (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°	18295.3	15746.6	13148.6	10542.9	8302.8	6176.1	4335.0	2873.5	1995.6	1709.3	1492.0
-25°	15378.5	13309.2	11187.0	9095.6	6994.5	5017.2	3391.9	2400.8	1875.5	1651.6	1450.8
-27.5°	12786.2	10997.1	9226.3	7403.9	5570.3	3910.0	2694.1	1979.1	1755.3	1574.4	1409.2
-30°	10361.4	8819.8	7259.5	5664.9	4222.1	2939.5	2118.8	1844.3	1654.8	1492.0	1343.8
-32.5°	8024.9	6736.3	5367.4	4109.4	3013.0	2250.8	1915.7	1714.8	1558.0	1414.5	1282.3
-35°	5809.4	4799.3	3710.0	2890.7	2205.8	1956.6	1772.1	1613.5	1467.8	1336.7	1219.6
-37.5°	3886.5	3159.2	2613.8	2115.6	1954.1	1796.5	1654.4	1514.2	1378.8	1266.5	1163.4
-40°	2599.4	2166.4	2044.7	1912.2	1789.4	1666.3	1540.5	1413.9	1303.3	1200.6	1109.9
-42.5°	2007.2	1920.1	1840.2	1747.6	1647.8	1541.1	1430.3	1326.6	1229.7	1142.5	1061.4
-45°	1800.9	1733.8	1669.8	1599.3	1514.9	1425.6	1331.4	1245.2	1162.6	1087.1	1013.1
-47.5°	1625.9	1572.5	1517.9	1463.7	1395.0	1321.8	1247.3	1171.3	1101.8	1028.3	923.2
-50°	1473.8	1431.2	1385.0	1340.0	1291.3	1235.7	1171.3	1106.4	1027.2	927.7	829.1
-52.5°	1347.9	1311.2	1273.6	1239.3	1202.2	1155.8	1098.5	1009.8	918.4	823.5	730.9
-55°	1240.1	1209.1	1178.0	1151.1	1116.3	1048.9	976.1	890.6	801.6	714.0	634.5
-57.5°	1145.7	1111.6	1066.0	1021.4	976.2	912.7	840.8	760.6	684.4	611.0	539.0
-60°	997.5	959.1	913.5	867.0	821.3	765.3	705.0	640.0	572.2	511.9	452.1
-62.5°	827.4	790.8	751.2	711.5	674.5	631.2	578.5	526.5	471.7	418.3	375.1
-65°	662.2	633.3	600.4	568.9	539.8	507.8	463.6	424.1	385.1	345.2	307.6
-67.5°	515.9	493.2	467.7	442.7	424.1	404.2	374.9	342.7	314.3	288.4	264.5
-70°	400.7	385.9	369.5	351.6	337.5	325.2	306.9	285.4	263.1	243.0	224.6
-72.5°	318.6	309.2	298.8	287.5	276.2	267.0	254.4	238.6	222.1	204.4	189.9
-75°	260.5	253.5	246.0	238.2	230.0	221.3	213.1	203.7	193.6	182.8	172.8
-77.5°	220.7	215.9	211.0	206.7	202.2	197.3	191.2	182.9	174.9	166.6	158.8
-80°	197.7	193.7	189.7	186.5	183.0	179.0	174.2	167.3	160.2	153.0	146.3
-82.5°	179.8	176.5	173.1	170.0	166.8	163.1	159.0	153.0	147.0	140.7	134.6
-85°	163.5	160.5	157.3	154.5	151.7	148.3	144.8	139.6	134.4	128.8	123.1
-87.5°	148.5	145.5	142.5	140.4	138.3	135.2	132.0	127.6	123.2	118.3	113.5
-90°	1.3	1.3	1.3	1.6	1.9	1.9	1.9	2.2	2.5	2.5	2.5



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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°	102.7	98.9	95.1	91.3	88.2	85.0	81.6	78.1	73.4	68.6	61.4
87.5°	2.7	2.9	3.2	3.5	3.5	3.5	3.8	4.1	4.0	4.0	4.3
85°	3.0	3.3	3.5	3.8	3.8	3.8	4.1	4.3	4.3	4.2	4.5
82.5°	3.5	3.8	3.7	3.8	4.0	4.1	4.4	4.6	4.5	4.4	4.7
80°	3.7	3.8	3.9	4.0	4.2	4.4	4.6	4.8	4.9	4.9	5.0
77.5°	3.8	3.9	4.2	4.3	4.3	4.5	4.8	5.1	5.3	5.4	5.4
75°	3.8	3.9	4.2	4.4	4.5	4.5	4.8	5.2	5.6	5.8	5.8
72.5°	4.2	4.2	4.4	4.5	4.7	4.9	5.0	5.3	5.7	6.1	6.2
70°	5.3	4.8	4.8	5.0	5.2	5.3	5.6	5.8	6.0	6.4	6.5
67.5°	6.9	6.2	5.7	5.7	5.9	6.0	6.2	6.4	6.5	6.7	6.9
65°	10.9	8.8	6.9	6.8	6.8	6.8	6.9	7.2	7.1	7.4	7.3
62.5°	15.8	12.6	10.6	8.8	8.3	8.7	7.7	8.5	7.9	8.3	8.1
60°	21.4	17.0	14.8	13.0	11.6	11.4	10.9	10.2	10.0	9.3	9.2
57.5°	26.1	21.0	19.6	17.7	16.9	15.7	15.0	13.8	12.4	11.6	10.4
55°	29.8	25.5	24.9	23.2	22.9	21.1	20.2	18.5	15.6	14.3	11.7
52.5°	31.9	31.3	30.8	30.7	30.3	27.8	26.7	23.6	21.1	17.3	14.5
50°	37.2	39.3	38.5	40.4	39.0	37.6	33.7	30.5	26.9	21.2	17.6
47.5°	55.0	56.5	52.2	53.6	50.9	49.0	44.1	38.4	33.2	27.0	20.8
45°	101.4	85.0	80.0	73.9	67.9	65.2	56.6	46.8	40.9	33.1	24.1
42.5°	166.0	143.2	127.6	98.4	96.1	85.1	71.6	60.3	49.0	39.5	28.8
40°	253.9	223.5	190.0	158.9	131.5	107.9	93.9	76.0	57.5	46.5	34.5
37.5°	338.2	303.7	269.5	227.6	178.0	145.9	119.3	92.9	68.5	54.6	40.3
35°	407.9	374.2	342.0	297.0	245.5	186.0	147.1	113.5	84.3	63.0	46.3
32.5°	470.7	431.8	393.7	357.1	301.5	226.9	181.0	137.0	100.3	71.7	52.2
30°	530.7	483.4	439.1	403.7	345.8	272.9	214.4	159.4	116.7	80.7	58.3
27.5°	593.0	535.3	482.8	441.6	381.8	312.4	240.8	180.6	133.4	90.6	64.9
25°	659.8	591.9	533.8	481.4	418.0	341.8	264.3	200.8	150.7	102.0	71.2
22.5°	730.5	648.7	582.9	524.0	458.0	370.4	287.2	221.4	164.2	112.7	77.2
20°	797.3	701.5	627.8	559.5	496.3	402.9	310.7	238.1	176.8	122.6	82.9
17.5°	863.9	752.5	662.6	590.7	529.0	436.3	334.9	253.7	188.4	131.7	88.2
15°	926.6	802.1	697.5	618.2	555.1	467.9	358.5	268.4	199.1	140.0	93.5
12.5°	984.7	848.9	732.0	641.9	574.6	496.2	381.1	282.0	208.8	148.4	98.9
10°	1036.8	892.9	765.7	664.5	591.4	521.3	402.3	296.9	221.3	156.7	104.0
7.5°	1079.7	933.1	796.8	686.0	606.7	542.8	425.3	316.2	233.6	164.1	108.7
5°	1116.4	969.4	827.6	711.1	624.4	560.2	446.1	334.3	245.1	170.8	113.0
2.5°	1149.7	1001.2	856.6	735.0	640.8	574.2	464.3	351.0	255.4	176.6	116.9
0°	1176.9	1027.7	881.6	756.3	655.5	585.0	479.8	365.9	264.5	181.4	120.3
-2.5°	1201.5	1046.5	902.3	778.6	680.1	601.2	489.3	373.4	271.9	187.8	124.4
-5°	1219.6	1060.2	919.0	798.2	702.1	614.3	496.1	378.8	277.8	193.0	128.0
-7.5°	1248.0	1076.1	933.9	815.3	721.0	623.9	500.1	382.3	282.2	197.2	131.1
-10°	1270.1	1090.7	947.8	829.4	733.4	631.9	502.2	383.7	284.9	200.0	133.6
-12.5°	1287.3	1101.3	957.0	839.9	743.2	638.7	507.6	385.4	285.9	201.5	135.4
-15°	1300.4	1116.7	966.6	847.1	751.5	642.2	509.0	385.3	284.6	201.3	136.6
-17.5°	1304.5	1122.6	971.4	852.7	757.2	642.4	506.2	382.1	281.5	199.3	137.4
-20°	1306.6	1125.0	969.6	853.3	758.9	634.8	498.8	375.5	276.4	196.2	137.8



REPORT NUMBER: P735974 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1300.6	1126.1	975.9	852.4	752.8	623.0	486.8	365.7	269.4	191.8	137.6
-25°	1275.2	1120.8	977.1	855.4	736.9	606.2	474.0	355.5	260.3	186.2	136.8
-27.5°	1244.5	1101.2	971.2	851.6	720.5	586.5	460.1	346.7	252.6	179.5	135.4
-30°	1210.7	1078.5	957.1	837.7	698.5	565.1	443.4	335.3	245.4	175.5	133.4
-32.5°	1162.7	1052.2	938.4	808.9	671.4	540.0	423.3	321.0	236.3	173.1	131.6
-35°	1116.2	1020.2	915.6	773.8	639.5	514.5	401.4	303.7	225.3	169.8	129.7
-37.5°	1066.9	980.4	871.0	733.0	602.1	485.1	379.3	287.2	212.4	165.5	127.0
-40°	1022.4	927.4	809.1	686.8	563.1	451.2	354.1	271.1	204.1	160.3	123.7
-42.5°	975.4	856.3	743.6	632.5	520.4	418.2	327.1	253.1	197.2	155.2	119.7
-45°	898.1	783.3	674.1	573.9	474.2	381.8	304.5	234.8	189.2	149.7	116.2
-47.5°	816.6	707.8	604.9	512.5	429.4	344.9	278.3	224.1	179.8	143.4	114.2
-50°	731.7	632.0	536.9	454.6	378.2	313.6	253.3	211.9	171.5	136.2	111.8
-52.5°	644.0	556.6	472.6	396.5	336.1	280.1	236.1	197.9	162.1	131.5	109.0
-55°	556.7	484.0	409.2	346.5	295.1	255.3	217.6	184.4	151.7	127.5	106.0
-57.5°	475.1	411.4	354.2	301.4	262.4	231.1	199.9	170.0	145.1	123.1	104.3
-60°	396.5	350.3	302.0	265.7	234.6	208.0	182.4	157.2	139.2	118.6	102.2
-62.5°	331.9	293.8	265.3	235.0	208.7	186.5	165.6	149.0	132.5	115.5	99.7
-65°	281.2	256.4	231.2	207.6	184.8	167.4	155.8	140.5	127.0	112.0	96.8
-67.5°	241.3	221.3	201.7	180.9	166.9	156.0	145.3	133.8	121.9	108.1	93.6
-70°	206.1	188.4	176.4	165.7	154.6	145.0	137.5	127.7	116.5	104.1	90.2
-72.5°	179.9	170.6	161.5	152.1	144.3	137.0	130.1	121.5	111.1	99.8	86.6
-75°	163.8	156.4	149.6	142.4	135.6	129.0	122.6	115.0	105.5	95.3	82.9
-77.5°	152.3	146.0	139.3	132.8	126.9	120.9	115.0	108.3	99.7	90.6	79.0
-80°	140.9	135.3	129.5	123.8	118.3	112.8	107.5	101.6	93.8	85.6	75.0
-82.5°	129.5	124.4	119.6	114.7	109.9	105.1	100.1	94.8	87.7	80.5	71.2
-85°	118.8	114.5	110.1	105.6	101.5	97.5	93.1	88.6	82.6	76.6	68.0
-87.5°	109.8	106.1	102.2	98.2	94.7	91.3	87.3	83.4	78.0	72.7	64.8
-90°	2.5	2.5	2.8	3.1	3.1	3.1	3.5	3.8	3.8	3.8	4.1



REPORT NUMBER: P735974 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	54.2	45.0	35.9	25.8	15.7	10.7	5.7
87.5°	4.6	4.6	4.6	4.6	4.5	5.2	5.7
85°	4.7	4.8	4.9	4.7	4.6	5.3	5.7
82.5°	4.9	5.0	5.1	4.9	4.8	5.4	5.7
80°	5.1	5.2	5.3	5.1	4.9	5.5	5.7
77.5°	5.4	5.5	5.5	5.2	5.0	5.6	5.7
75°	5.8	5.8	5.7	5.4	5.2	5.7	5.7
72.5°	6.1	6.0	6.0	5.6	5.3	5.8	5.7
70°	6.5	6.3	6.2	5.7	5.5	6.0	5.7
67.5°	6.9	6.6	6.4	6.0	5.6	6.1	5.7
65°	7.4	7.0	6.7	6.2	5.8	6.2	5.7
62.5°	7.9	7.6	6.9	6.5	6.0	6.3	5.7
60°	8.5	8.2	7.2	6.7	6.2	6.5	5.7
57.5°	9.7	8.8	7.9	7.0	6.5	6.6	5.7
55°	11.0	9.5	8.6	7.3	6.9	6.7	5.7
52.5°	12.4	10.3	9.3	7.6	7.3	6.9	5.7
50°	13.8	11.7	10.1	7.8	7.7	7.0	5.7
47.5°	15.5	13.2	10.9	8.2	8.1	7.1	5.7
45°	18.4	14.8	11.8	8.8	8.6	7.3	5.7
42.5°	21.3	16.4	12.6	9.5	9.1	7.4	5.7
40°	24.4	18.1	13.7	10.4	9.6	7.5	5.7
37.5°	27.6	19.8	15.1	11.5	10.1	7.7	5.7
35°	30.9	22.2	16.4	12.6	10.6	7.8	5.7
32.5°	34.6	24.7	17.7	13.8	11.2	7.9	5.7
30°	39.4	27.3	19.1	14.9	11.7	8.1	5.7
27.5°	44.1	29.7	20.9	16.0	12.3	8.2	5.7
25°	48.6	32.2	22.8	17.2	12.9	8.3	5.7
22.5°	53.0	34.7	24.6	18.3	13.4	8.4	5.7
20°	57.2	37.6	26.4	19.5	14.0	8.6	5.7
17.5°	61.5	40.4	28.1	20.6	14.6	8.7	5.7
15°	65.8	43.1	29.8	21.7	15.2	8.8	5.7
12.5°	69.8	45.7	31.4	22.8	15.8	8.9	5.7
10°	73.6	48.1	32.9	23.8	16.3	9.0	5.7
7.5°	77.1	50.5	34.4	24.9	16.8	9.1	5.7
5°	80.2	52.7	35.8	25.9	17.4	9.2	5.7
2.5°	83.1	54.8	37.1	26.8	17.8	9.3	5.7
0°	85.6	56.7	38.4	27.7	18.3	9.4	5.7
-2.5°	88.6	59.0	40.2	28.9	19.0	9.7	5.7
-5°	91.1	61.1	41.9	30.0	19.7	10.1	5.7
-7.5°	93.4	63.0	43.5	31.1	20.3	10.4	5.7
-10°	95.2	64.7	45.0	32.0	20.9	10.7	5.7
-12.5°	96.7	66.2	46.4	33.0	21.4	11.0	5.7
-15°	97.7	67.5	47.6	33.8	21.9	11.3	5.7
-17.5°	98.4	68.6	48.7	34.6	22.4	11.6	5.7
-20°	98.9	69.5	49.7	35.2	22.8	11.8	5.7



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	99.3	70.2	50.6	35.8	23.2	12.1	5.7
-25°	99.4	71.0	51.3	36.3	23.5	12.3	5.7
-27.5°	99.0	71.7	51.8	36.8	23.8	12.5	5.7
-30°	98.1	72.2	52.3	37.1	24.0	12.7	5.7
-32.5°	96.8	72.5	53.0	37.3	24.2	12.8	5.7
-35°	96.3	72.4	53.5	37.4	24.3	13.0	5.7
-37.5°	96.0	72.5	53.9	37.5	24.4	13.1	5.7
-40°	95.4	72.8	54.2	37.4	24.5	13.2	5.7
-42.5°	94.4	72.9	54.3	37.4	24.5	13.3	5.7
-45°	92.9	72.8	54.4	37.4	24.4	13.3	5.7
-47.5°	91.2	72.6	54.4	37.4	24.3	13.3	5.7
-50°	90.3	72.1	54.1	37.4	24.2	13.3	5.7
-52.5°	89.3	71.5	53.8	37.4	24.0	13.3	5.7
-55°	88.1	70.6	53.2	37.2	23.7	13.3	5.7
-57.5°	86.7	69.5	52.5	36.9	23.4	13.2	5.7
-60°	85.1	68.2	51.7	36.6	23.1	13.1	5.7
-62.5°	83.2	66.8	51.0	36.1	22.7	13.0	5.7
-65°	81.0	65.1	50.1	35.6	22.3	12.9	5.7
-67.5°	78.7	63.4	49.2	35.0	21.9	12.8	5.7
-70°	76.1	61.7	48.1	34.2	21.4	12.6	5.7
-72.5°	73.5	59.9	46.9	33.4	20.8	12.4	5.7
-75°	70.7	57.8	45.5	32.6	20.2	12.2	5.7
-77.5°	67.7	55.6	44.1	31.6	19.5	12.0	5.7
-80°	64.5	53.6	42.7	30.6	18.8	11.8	5.7
-82.5°	62.0	51.6	41.1	29.5	18.1	11.5	5.7
-85°	59.5	49.5	39.5	28.3	17.3	11.3	5.7
-87.5°	56.9	47.3	37.7	27.1	16.5	11.0	5.7
-90°	4.4	4.4	4.4	4.4	4.4	5.1	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

