

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: P731461 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-70-3S-VHE**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731461 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0530N-40-70-3S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 3S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

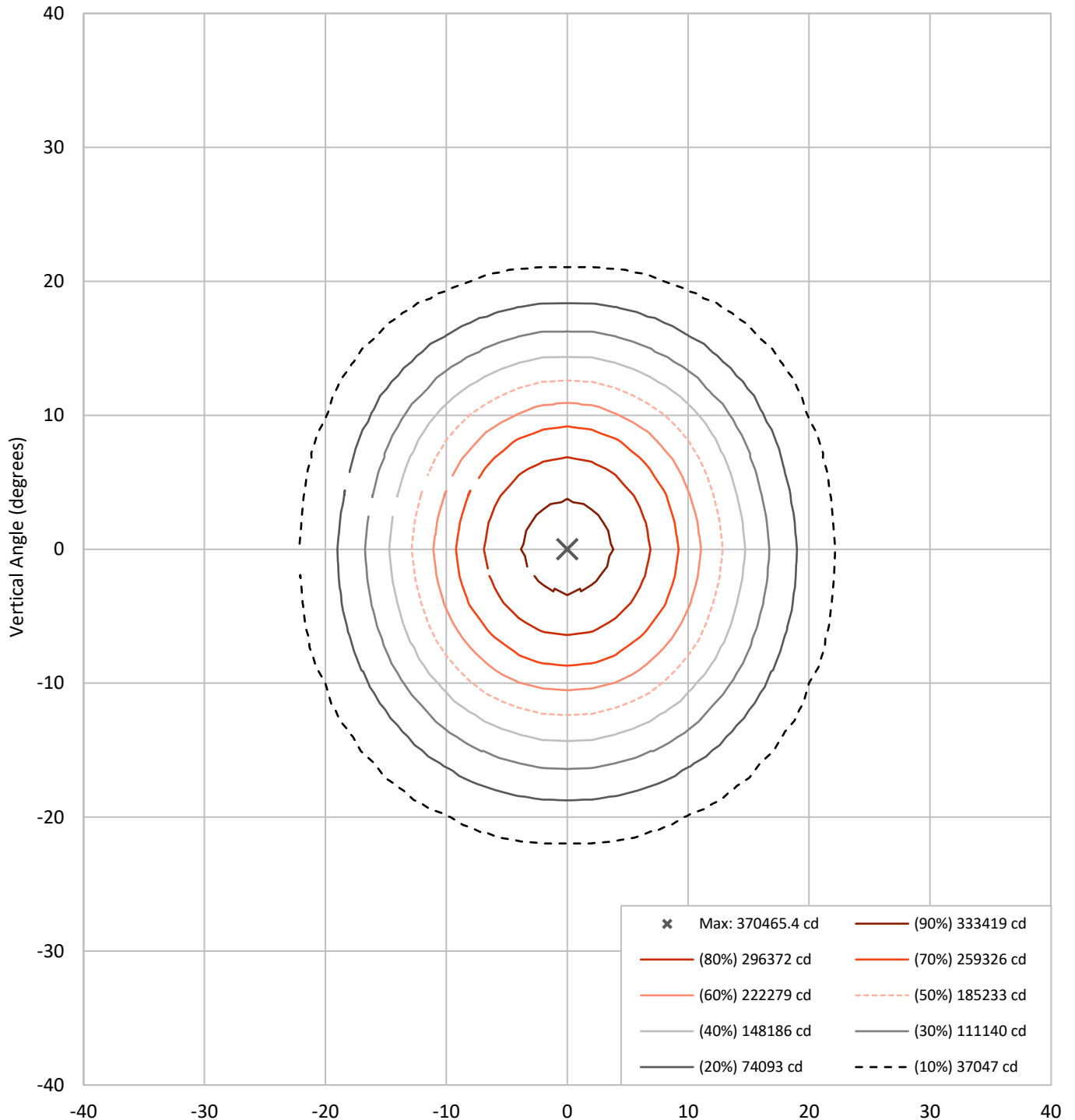
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	83232.6 lumens	Max Intensity:	370465.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	148.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	25.7°H x 24.9°V	Field Angle (10%):	44.2°H x 43°V
Beam Lumens:	39823.3 lumens	Field Lumens:	69780.2 lumens
Beam Efficiency:	47.8%	Field Efficiency:	83.8%

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





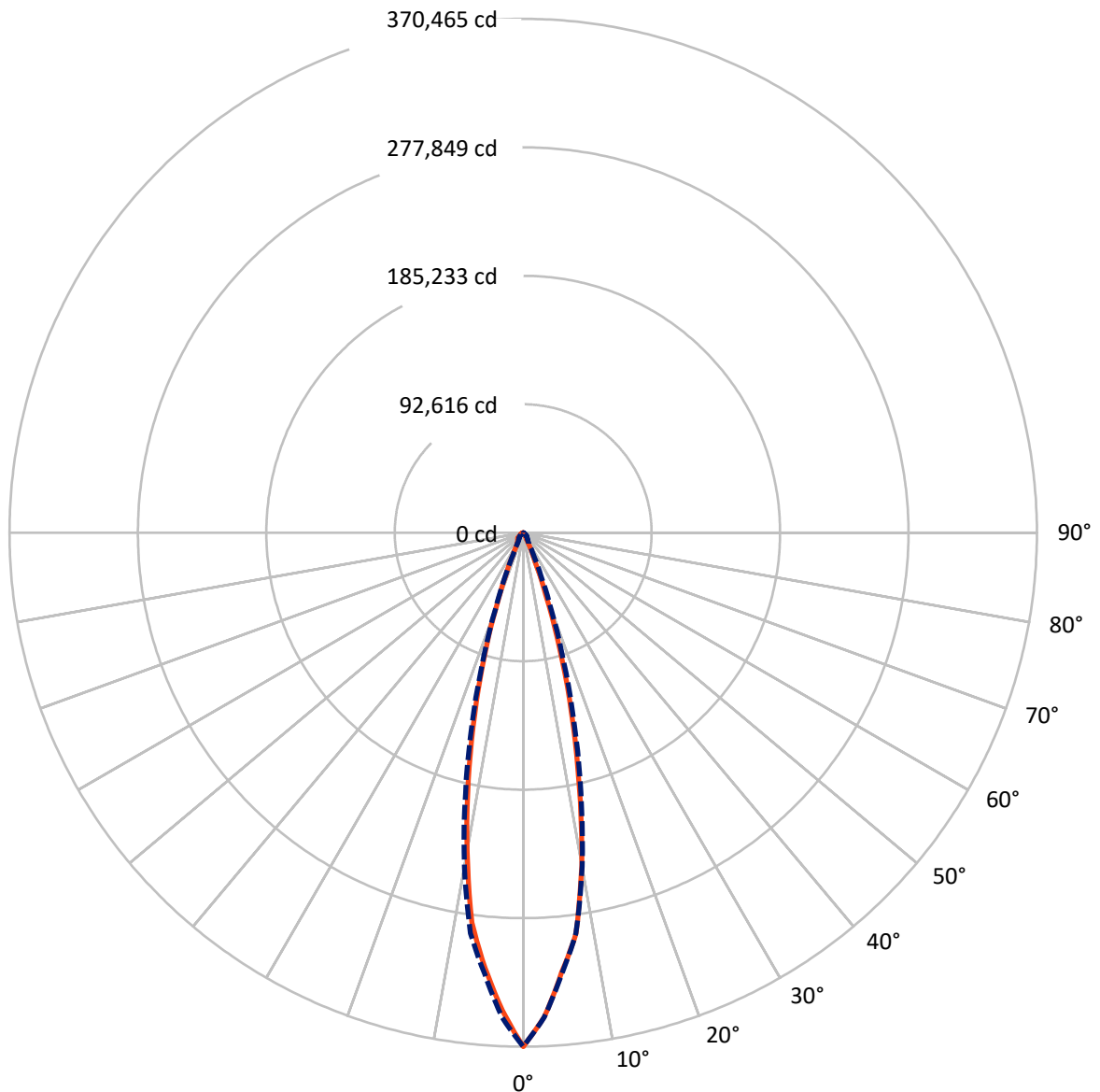
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Lumen Table

90	0.2		0.7		1.3		2.0		2.3		2.0		1.3		0.7		0.2		
80	0.2		0.1	0.2	0.6	0.8	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.8	0.6	0.2	0.1	0.2	
70	0.2		0.4	0.8	1.1	0.9	0.9	1.2	1.4	1.4	1.2	0.9	0.9	1.1	0.8	0.4	0.2		
60	0.8		1.2	2.8	5.8	10.8	18.4	26.1	29.6	29.6	26.1	18.4	10.8	5.8	2.8	1.2	0.8		
50	0.8		2.9	8.8	18.2	34.3	56.9	68.8	80.7	80.7	68.8	56.9	34.3	18.2	8.8	2.9	0.8		
40	1.9		4.8	14.8	32.6	73.0	93.9	202.8	443.5	443.5	202.8	93.9	73.0	32.6	14.8	4.8	1.9		
30	1.9		6.4	19.6	53.0	104.7	253.3	1525.5	3688.1	3688.1	1525.5	253.3	104.7	53.0	19.6	6.4	1.9		
20	2.8		7.7	22.6	67.5	126.9	562.2	3705.2	8439.4	8439.4	3705.2	562.2	126.9	67.5	22.6	7.7	2.8		
10	2.8		8.5	24.9	71.4	140.6	579.4	3727.7	8351.8	8351.8	3727.7	579.4	140.6	71.4	24.9	8.5	2.8		
0	3.0		8.6	25.7	69.0	140.1	310.6	1590.7	3722.5	3722.5	1590.7	310.6	140.1	69.0	25.7	8.6	3.0		
-10	3.0		7.9	24.5	54.6	126.0	190.3	329.7	627.0	627.0	329.7	190.3	126.0	54.6	24.5	7.9	3.0		
-20	2.6		6.7	21.0	43.6	87.1	152.2	187.9	208.5	208.5	187.9	152.2	87.1	43.6	21.0	6.7	2.6		
-30	2.6		5.2	16.0	33.8	55.1	81.3	119.3	148.6	148.6	119.3	81.3	55.1	33.8	16.0	5.2	2.6		
-40	2.1		3.5	10.4	22.1	37.1	50.5	61.3	68.0	68.0	61.3	50.5	37.1	22.1	10.4	3.5	2.1		
-50	2.1		2.5	5.5	11.4	19.3	26.6	33.6	37.9	37.9	33.6	26.6	19.3	11.4	5.5	2.5	2.1		
-60	2.1		2.5	5.5	11.4	19.3	26.6	33.6	37.9	37.9	33.6	26.6	19.3	11.4	5.5	2.5	2.1		
-70	2.1		2.5	5.5	11.4	19.3	26.6	33.6	37.9	37.9	33.6	26.6	19.3	11.4	5.5	2.5	2.1		
-80	1.5		9.1		21.1		34.4		42.2		34.4		21.1		9.1		1.5		
-90	1.5		9.1		21.1		34.4		42.2		34.4		21.1		9.1		1.5		

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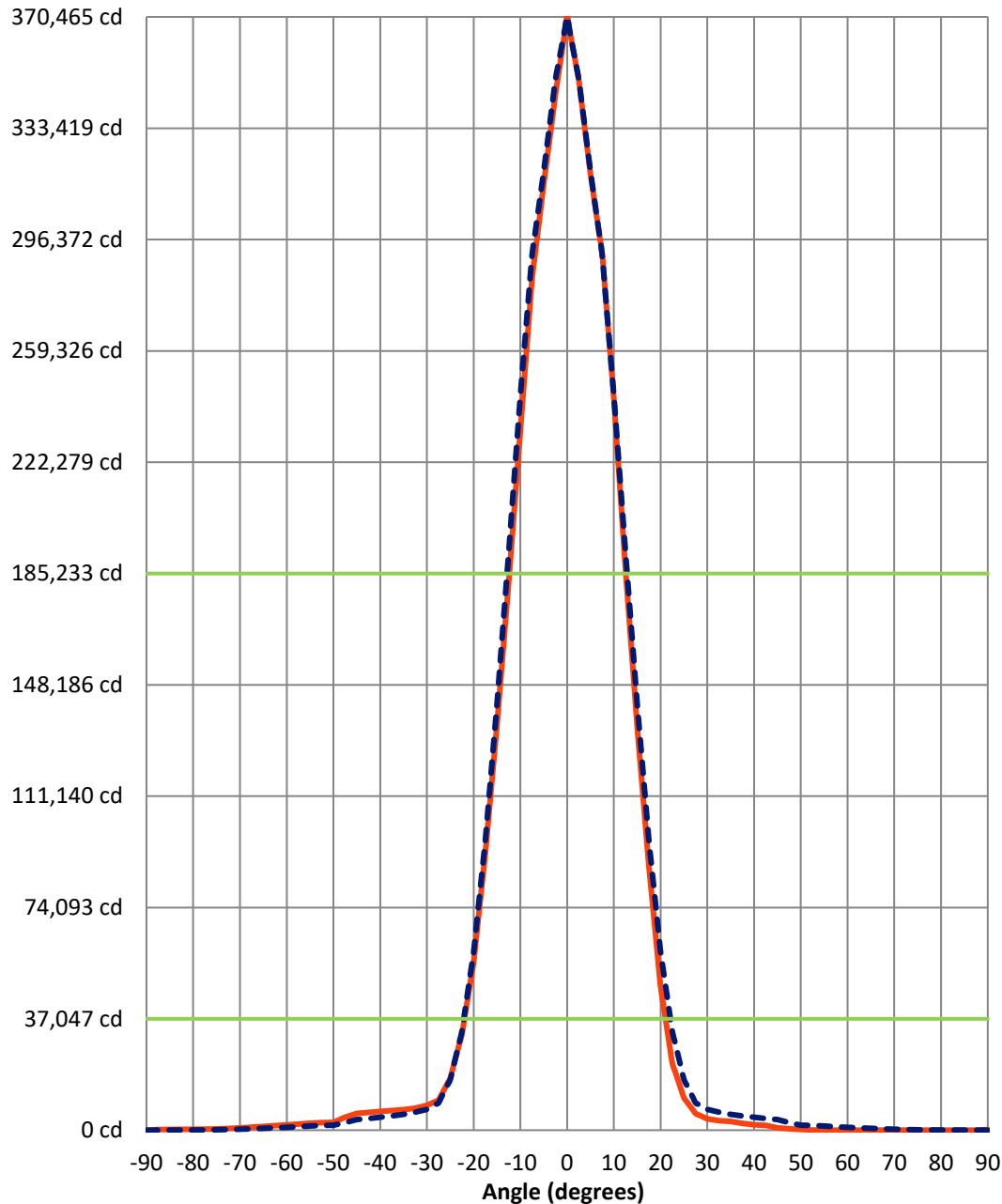
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 25.7°
 V Angle: 24.9°
 Lumens: 39823.3
 Efficiency: 47.8%

Field:
 H Angle: 44.2°
 V Angle: 43°
 Lumens: 69780.2
 Efficiency: 83.8%

Spill:
 Lumens: 13452.4
 Efficiency: 16.2%

— Vertical Distribution through 0-Deg
 - - Horizontal Distribution through 0-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	3.0	12.4	21.8	35.2	48.6	60.0	71.4	79.9	88.3	95.3	102.2
87.5°	3.0	3.2	3.2	3.3	3.3	3.3	3.3	3.0	2.7	2.6	2.4
85°	3.0	3.5	3.4	3.5	3.7	3.7	3.5	3.4	3.4	3.2	2.9
82.5°	3.0	3.7	3.5	3.8	4.0	4.0	3.8	3.9	4.0	3.7	3.3
80°	3.0	4.0	3.7	4.0	4.4	4.3	4.1	4.3	4.4	4.1	3.8
77.5°	3.0	4.2	3.9	4.3	4.7	4.7	4.7	4.8	4.8	4.5	4.2
75°	3.0	4.4	4.2	4.5	5.1	5.3	5.2	5.3	5.2	5.1	4.7
72.5°	3.0	4.7	4.4	4.8	5.6	5.9	5.8	5.9	6.0	5.7	5.3
70°	3.0	4.9	4.6	5.1	6.2	6.4	6.5	6.9	6.8	6.5	6.6
67.5°	3.0	5.2	4.9	5.7	6.8	7.0	7.7	7.9	7.8	8.2	8.3
65°	3.0	5.4	5.2	6.3	7.4	8.0	8.9	9.1	9.9	10.1	10.1
62.5°	3.0	5.7	5.6	6.9	8.0	9.3	10.3	11.0	12.1	12.2	12.2
60°	3.0	6.0	5.9	7.5	8.7	10.7	11.7	13.3	14.5	14.8	14.5
57.5°	3.0	6.2	6.6	8.1	10.0	12.1	13.9	15.8	17.7	17.9	19.7
55°	3.0	6.5	7.3	8.7	11.4	13.6	16.3	18.4	21.2	22.4	26.6
52.5°	3.0	6.8	8.0	9.4	12.8	15.2	18.6	22.0	25.1	30.8	34.2
50°	3.0	7.0	8.7	10.0	14.2	17.4	21.0	26.0	30.7	40.0	48.0
47.5°	3.0	7.3	9.4	10.8	15.7	19.7	23.6	30.1	39.9	49.9	64.7
45°	3.0	7.6	10.2	12.0	17.2	22.1	27.3	34.3	49.7	66.9	83.2
42.5°	3.0	7.8	10.9	13.1	18.8	24.6	31.1	41.4	59.8	85.3	111.5
40°	3.0	8.1	11.7	14.6	20.6	27.1	35.2	50.5	72.6	105.0	143.4
37.5°	3.0	8.4	12.5	16.2	22.6	29.8	39.7	59.8	90.6	128.3	177.6
35°	3.0	8.7	13.3	17.9	24.6	33.1	44.3	69.3	109.3	158.4	215.8
32.5°	3.0	8.9	14.1	19.5	26.6	36.7	50.0	79.3	128.7	188.6	253.8
30°	3.0	9.2	14.9	21.2	28.6	40.4	58.3	90.8	148.6	218.9	289.2
27.5°	3.0	9.5	15.8	22.8	31.1	44.0	66.4	106.0	168.8	249.1	322.2
25°	3.0	9.7	16.6	24.4	33.7	47.6	74.3	120.3	189.3	277.5	352.9
22.5°	3.0	10.0	17.4	26.1	36.3	51.3	82.1	133.7	208.1	296.7	386.4
20°	3.0	10.3	18.2	27.7	38.8	55.0	89.7	146.2	225.0	314.5	413.4
17.5°	3.0	10.5	19.0	29.2	41.2	58.6	96.7	157.8	240.2	330.9	438.7
15°	3.0	10.7	19.7	30.7	43.5	62.0	103.1	168.3	253.7	345.8	462.7
12.5°	3.0	11.0	20.5	32.2	45.8	65.2	109.1	177.6	267.3	359.1	485.1
10°	3.0	11.2	21.2	33.6	47.9	68.3	114.5	185.9	281.3	379.0	509.6
7.5°	3.0	11.4	21.9	35.0	50.0	71.1	119.5	193.3	294.2	399.0	540.2
5°	3.0	11.6	22.6	36.3	51.9	73.7	123.9	199.7	305.7	417.8	568.5
2.5°	3.0	11.7	23.2	37.5	53.8	76.1	127.7	205.0	315.8	435.0	594.2
0°	3.0	11.9	23.8	38.7	55.5	78.3	130.9	209.3	324.3	450.3	616.9
-2.5°	3.0	12.4	24.9	40.4	58.0	81.6	135.1	216.4	333.8	460.7	627.4
-5°	3.0	12.9	25.9	42.0	60.3	84.7	138.7	222.3	341.4	468.7	634.6
-7.5°	3.0	13.3	26.8	43.6	62.5	87.5	141.6	226.9	347.0	474.5	638.4
-10°	3.0	13.7	27.7	45.0	64.5	90.1	143.8	230.1	350.5	478.1	639.0
-12.5°	3.0	14.1	28.6	46.3	66.4	92.3	145.3	231.8	351.8	479.1	637.5
-15°	3.0	14.5	29.4	47.5	68.1	94.4	146.2	232.0	349.7	476.1	632.6
-17.5°	3.0	14.9	30.1	48.6	69.6	96.1	146.3	229.9	344.1	470.5	623.3
-20°	3.0	15.2	30.8	49.6	71.0	97.5	145.7	226.0	336.3	462.2	609.3



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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°	3.0	15.5	31.4	50.5	72.1	98.6	144.6	220.7	326.6	451.2	591.1
-25°	3.0	15.8	31.9	51.2	73.1	99.6	142.7	214.0	314.8	437.4	571.9
-27.5°	3.0	16.1	32.4	51.8	73.8	100.4	140.0	205.9	301.0	424.9	558.2
-30°	3.0	16.3	32.8	52.3	74.4	100.9	136.6	196.5	289.8	411.1	541.6
-32.5°	3.0	16.5	33.1	52.6	75.1	101.2	132.5	190.4	280.3	395.1	521.8
-35°	3.0	16.6	33.3	52.8	75.7	101.1	131.0	185.1	268.3	376.8	498.8
-37.5°	3.0	16.8	33.5	52.8	76.0	101.0	130.5	179.2	253.7	356.4	474.5
-40°	3.0	16.8	33.6	52.8	76.2	101.2	129.8	172.0	236.7	336.5	447.0
-42.5°	3.0	16.9	33.6	52.6	76.2	101.2	128.6	163.6	224.0	312.6	415.3
-45°	3.0	16.9	33.5	52.6	76.1	100.9	127.0	157.2	212.9	286.0	380.4
-47.5°	3.0	16.9	33.4	52.3	75.8	100.3	125.0	154.7	200.2	257.5	347.9
-50°	3.0	16.9	33.2	52.2	75.3	99.6	123.6	151.7	185.2	240.4	312.8
-52.5°	3.0	16.8	32.9	52.0	74.5	98.6	122.0	148.0	177.1	222.1	276.5
-55°	3.0	16.7	32.6	51.6	73.6	97.1	120.1	144.0	171.6	202.5	253.5
-57.5°	3.0	16.6	32.1	51.2	72.4	95.3	117.8	141.3	165.7	192.6	229.3
-60°	3.0	16.5	31.6	50.6	71.1	93.4	115.3	137.9	159.8	185.3	209.2
-62.5°	3.0	16.3	31.2	49.8	70.0	91.2	112.6	134.0	155.0	177.3	199.2
-65°	3.0	16.0	30.6	49.0	68.8	88.8	109.6	129.8	149.8	170.0	188.6
-67.5°	3.0	15.8	30.0	48.0	67.3	86.4	106.4	125.6	144.2	162.8	179.7
-70°	3.0	15.5	29.3	46.9	65.7	83.9	102.9	121.0	138.7	155.4	171.5
-72.5°	3.0	15.2	28.6	45.7	64.0	81.3	99.3	116.2	132.9	148.2	163.0
-75°	3.0	14.9	27.8	44.5	62.1	78.4	95.4	111.1	126.8	140.5	154.0
-77.5°	3.0	14.5	26.9	43.2	60.1	75.3	91.2	105.6	120.2	132.6	144.7
-80°	3.0	14.1	26.0	41.8	58.1	72.4	86.9	99.9	113.2	124.4	135.3
-82.5°	3.0	13.7	25.0	40.3	55.9	69.5	83.1	94.5	106.0	115.9	125.8
-85°	3.0	13.3	24.0	38.7	53.6	66.4	79.4	89.7	100.2	108.6	117.0
-87.5°	3.0	12.9	22.9	37.0	51.1	63.3	75.5	84.9	94.3	102.0	109.7
-90°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.5	2.0	2.0	2.0



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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°	107.7	113.1	118.1	123.0	127.5	131.9	137.9	143.8	148.3	152.7	157.2
87.5°	2.5	2.5	2.5	2.6	2.3	2.0	2.0	2.0	1.9	1.8	1.8
85°	2.9	3.0	3.0	3.0	2.6	2.3	2.4	2.4	2.5	2.5	2.3
82.5°	3.4	3.5	3.3	3.0	2.9	2.9	3.0	3.0	3.0	3.0	2.7
80°	3.8	4.0	3.6	3.3	3.4	3.6	3.4	3.1	3.0	3.1	3.2
77.5°	4.2	4.1	3.9	3.9	4.0	4.2	4.1	4.1	4.1	3.9	4.0
75°	4.5	4.2	4.3	4.2	4.2	4.7	5.0	5.0	4.8	4.7	4.7
72.5°	5.2	5.2	5.1	4.5	4.6	5.0	5.0	5.0	6.2	8.2	9.9
70°	6.5	6.4	6.1	5.7	5.5	5.9	7.5	10.3	13.3	16.1	18.8
67.5°	7.8	7.7	7.2	7.2	8.3	9.9	12.0	19.0	26.3	28.8	29.3
65°	9.3	9.0	9.1	10.3	11.7	16.7	23.1	31.5	38.5	38.0	35.1
62.5°	11.0	12.3	12.3	14.8	19.7	25.7	33.1	40.3	46.6	43.5	36.3
60°	15.7	16.6	18.9	23.4	28.5	34.4	42.1	44.5	46.0	44.9	35.2
57.5°	21.6	24.2	28.9	33.2	39.2	41.9	42.5	42.1	44.7	42.9	33.2
55°	30.2	34.6	41.0	45.4	48.9	43.7	43.1	45.8	45.5	41.7	32.2
52.5°	43.2	47.9	56.7	59.9	57.1	53.0	51.5	54.1	52.1	46.9	40.6
50°	57.3	68.5	74.3	76.9	71.8	71.3	66.1	69.3	72.2	69.6	78.4
47.5°	78.8	92.3	96.6	101.2	98.7	107.8	103.2	120.2	121.4	171.3	186.2
45°	104.7	122.8	127.7	139.7	152.9	168.7	196.2	203.4	285.4	335.4	394.5
42.5°	135.9	158.6	179.1	185.9	244.8	276.8	318.0	394.3	470.6	533.4	577.3
40°	176.0	199.2	242.5	294.1	356.8	411.2	489.7	578.0	650.7	699.0	721.6
37.5°	220.3	265.5	322.2	405.8	482.0	551.1	651.4	739.8	804.3	848.9	854.6
35°	267.7	332.0	424.9	509.6	588.2	681.8	781.4	883.1	935.9	955.2	1037.1
32.5°	323.1	396.8	506.8	598.8	687.3	793.4	899.3	987.1	1033.8	1088.1	1365.5
30°	375.5	464.8	574.2	672.0	781.7	902.6	1003.8	1086.6	1118.9	1403.9	1852.6
27.5°	417.3	523.8	633.6	751.6	877.5	1015.8	1117.8	1171.6	1356.4	1778.1	2426.8
25°	456.3	570.8	693.6	840.9	984.2	1121.2	1225.0	1259.4	1643.8	2359.0	2842.4
22.5°	494.4	616.8	759.8	935.4	1082.2	1210.1	1296.8	1505.0	2055.9	2961.6	3212.6
20°	532.5	671.0	831.7	1006.8	1168.8	1288.1	1354.8	1764.1	2556.3	3193.1	3475.5
17.5°	569.2	725.7	897.7	1067.0	1230.2	1351.2	1437.4	1982.6	2952.6	3400.9	3678.9
15°	605.0	772.4	948.6	1123.4	1289.9	1406.4	1640.5	2303.1	3198.8	3652.2	3945.8
12.5°	639.3	812.3	986.2	1172.4	1347.7	1460.1	1851.2	2691.6	3455.7	3899.8	4217.2
10°	671.7	845.9	1018.8	1217.0	1401.5	1506.9	2048.9	3054.5	3690.7	4076.1	4363.8
7.5°	704.3	876.1	1048.3	1257.4	1452.1	1549.4	2216.1	3253.1	3783.0	4192.5	4467.1
5°	733.1	904.1	1083.3	1307.2	1501.2	1588.5	2357.2	3386.7	3812.2	4250.7	4541.5
2.5°	757.8	927.3	1113.8	1353.6	1545.4	1624.0	2453.4	3488.6	3847.6	4292.0	4634.0
0°	778.5	946.1	1139.5	1393.4	1582.9	1656.2	2517.1	3543.6	3869.9	4310.2	4736.7
-2.5°	793.7	971.1	1180.5	1427.2	1613.7	1689.8	2537.1	3567.2	3902.3	4410.3	4967.0
-5°	804.9	991.2	1214.9	1454.0	1638.7	1720.8	2522.8	3545.2	3941.1	4502.6	5113.3
-7.5°	811.9	1005.6	1241.3	1474.1	1659.6	1755.7	2479.8	3519.9	4062.6	4618.5	5186.9
-10°	815.2	1013.1	1245.4	1481.6	1676.3	1790.7	2406.3	3434.4	4150.4	4662.8	5193.0
-12.5°	818.0	1014.6	1240.5	1480.3	1686.7	1822.8	2313.8	3331.9	4231.3	4679.4	5155.4
-15°	815.5	1011.5	1229.5	1471.1	1700.0	1863.2	2195.5	3141.5	4267.5	4661.9	5084.7
-17.5°	807.3	1003.8	1214.4	1459.3	1708.5	1900.9	2040.5	2848.2	4073.5	4608.2	5030.9
-20°	793.3	989.7	1192.8	1436.5	1703.9	1917.2	2036.6	2633.6	3667.0	4502.5	4951.0



REPORT NUMBER: P731461 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-3S-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	774.7	969.8	1167.0	1406.3	1677.1	1910.4	2065.0	2397.0	3206.4	4347.5	4830.6
-25°	753.0	944.5	1140.5	1373.8	1639.7	1897.6	2080.6	2179.1	2825.7	3822.6	4639.2
-27.5°	727.9	914.5	1110.3	1330.4	1590.8	1859.4	2055.2	2185.2	2516.1	3222.3	4348.5
-30°	698.2	879.7	1071.2	1280.1	1531.0	1787.4	2011.7	2177.2	2273.9	2812.6	3718.1
-32.5°	664.7	839.7	1026.7	1231.8	1463.4	1709.8	1947.0	2126.0	2258.6	2434.9	3124.6
-35°	632.6	798.9	977.4	1177.4	1390.9	1622.4	1845.0	2056.3	2222.5	2336.1	2616.4
-37.5°	604.4	754.3	925.8	1118.4	1324.0	1522.1	1734.8	1952.5	2143.0	2300.1	2399.3
-40°	572.0	706.3	872.7	1054.7	1237.8	1420.7	1619.3	1827.2	2037.1	2209.7	2360.9
-42.5°	535.7	665.8	814.8	980.5	1148.7	1321.5	1498.3	1695.2	1893.1	2089.8	2249.3
-45°	495.6	620.6	753.0	902.0	1054.6	1217.6	1385.2	1555.4	1742.5	1928.2	2102.7
-47.5°	450.3	570.4	696.7	818.3	960.0	1109.6	1266.1	1426.6	1586.7	1757.2	1925.8
-50°	403.1	514.7	631.1	742.5	863.6	999.8	1143.5	1292.8	1444.0	1587.0	1735.3
-52.5°	359.4	453.8	560.4	667.2	773.5	889.3	1019.1	1154.1	1293.9	1433.2	1558.6
-55°	312.1	397.1	485.6	586.4	688.1	788.2	893.6	1015.7	1134.5	1262.6	1385.9
-57.5°	276.9	339.3	416.9	500.7	595.9	692.8	786.1	878.0	981.6	1088.7	1197.4
-60°	248.7	292.5	351.9	423.3	498.2	587.6	679.4	764.3	842.4	922.2	1020.6
-62.5°	222.6	258.6	299.9	349.6	414.8	481.2	560.1	641.1	717.1	790.0	863.3
-65°	210.0	228.9	260.1	297.1	334.5	391.1	451.5	513.5	583.2	650.1	718.2
-67.5°	196.7	214.6	231.8	252.1	285.6	318.7	351.4	405.9	460.4	509.7	559.3
-70°	186.4	200.5	216.0	231.1	246.3	265.7	295.4	325.9	355.5	388.1	429.7
-72.5°	176.4	188.9	201.5	213.7	227.4	241.4	255.6	270.5	292.2	317.4	340.1
-75°	166.1	177.0	188.0	199.0	210.4	221.9	234.0	247.1	260.6	274.1	286.2
-77.5°	155.6	165.9	175.3	184.5	194.2	204.5	215.2	226.0	237.1	248.3	257.7
-80°	144.9	154.6	162.9	170.9	179.3	187.8	196.9	206.2	215.5	224.9	233.2
-82.5°	134.0	142.3	149.7	156.9	164.1	171.2	179.2	187.2	195.3	203.3	210.3
-85°	123.4	129.7	136.1	142.4	148.7	154.9	162.0	169.1	175.9	182.6	188.6
-87.5°	115.6	121.4	126.8	132.0	137.0	142.1	148.2	154.3	159.6	164.8	169.7
-90°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	161.7	164.7	167.6	170.1	172.6	176.1	179.5	184.5	189.4	195.4	201.3
87.5°	1.8	1.8	1.9	1.4	1.0	1.0	1.0	1.0	1.0	1.5	2.0
85°	2.0	2.0	2.0	2.3	2.6	2.7	2.8	2.8	2.9	2.9	3.0
82.5°	2.5	2.5	2.6	2.8	3.0	3.0	3.0	3.0	3.0	3.4	3.9
80°	3.3	3.4	3.5	3.5	3.6	3.4	3.0	3.0	3.0	3.5	4.0
77.5°	4.1	4.1	4.0	3.8	3.5	3.2	3.0	3.0	3.0	3.1	3.1
75°	4.9	5.0	5.3	5.6	6.0	6.1	5.7	5.8	6.1	6.0	5.8
72.5°	10.9	11.2	11.2	12.5	13.7	14.2	14.5	15.5	16.6	18.2	19.9
70°	21.3	23.5	24.4	24.4	23.5	22.9	22.4	22.3	22.7	23.7	25.0
67.5°	30.7	31.7	31.2	30.8	29.0	26.8	24.3	22.9	23.5	24.6	26.2
65°	34.7	32.0	30.0	29.3	27.6	24.8	21.1	18.5	17.9	17.5	17.4
62.5°	31.2	26.3	24.0	22.7	20.2	17.9	14.4	11.7	10.7	10.1	9.9
60°	27.2	21.1	17.4	15.6	13.0	10.1	8.3	6.4	5.7	5.3	5.5
57.5°	23.7	17.5	13.2	12.4	10.0	7.9	6.3	4.7	4.3	4.0	4.1
55°	24.3	21.3	17.8	16.0	13.3	12.1	10.6	9.6	8.8	9.0	9.5
52.5°	34.4	37.0	32.6	31.4	39.1	39.2	32.3	42.9	49.3	54.1	55.5
50°	88.8	88.2	117.2	112.3	139.1	161.0	161.9	175.2	200.6	217.9	227.3
47.5°	235.8	262.4	296.2	331.6	359.4	394.0	429.1	455.3	461.7	462.4	467.0
45°	444.0	481.8	532.6	569.9	622.4	654.8	681.7	706.0	762.2	813.9	874.2
42.5°	620.0	661.3	714.0	789.8	845.1	992.7	1218.7	1274.2	1282.1	1328.1	1394.9
40°	759.0	813.1	930.2	1096.2	1450.1	1767.4	1824.6	1872.3	1893.3	1867.8	1913.2
37.5°	927.2	1054.1	1317.7	1771.8	1939.5	2026.0	2086.7	2123.3	2167.6	2208.6	2230.8
35°	1206.4	1560.1	1791.1	2033.7	2143.4	2187.2	2231.8	2276.8	2311.6	2357.0	2393.3
32.5°	1779.6	2173.4	2196.6	2256.6	2313.7	2370.7	2412.3	2455.2	2492.4	2551.1	2674.4
30°	2357.1	2443.0	2464.0	2469.4	2521.6	2589.8	2626.0	2712.5	2829.2	2963.2	3248.1
27.5°	2664.6	2723.6	2735.9	2741.8	2766.1	2846.8	2996.5	3114.5	3394.7	3734.8	4467.1
25°	3038.9	3080.9	3125.5	3123.6	3160.5	3303.5	3596.1	3845.3	4791.9	5677.8	7586.3
22.5°	3396.0	3523.1	3586.4	3671.2	3796.5	4056.7	4570.1	6012.1	8423.1	11500.0	15330.3
20°	3644.2	3815.1	3985.5	4222.2	4525.1	5065.1	6668.8	10983.9	16137.1	23614.5	29886.1
17.5°	3894.6	4087.7	4388.9	4754.1	5262.8	7076.0	11777.8	19104.6	29687.1	42962.0	54609.4
15°	4221.1	4450.2	4853.6	5374.9	6796.4	10666.9	18510.2	31842.1	47929.5	66590.3	86165.2
12.5°	4443.4	4759.1	5238.7	5911.9	8245.3	15494.3	28122.8	46399.2	68540.9	92054.0	123256.8
10°	4607.7	4985.3	5636.6	7032.5	11263.4	20822.8	35998.2	58807.0	89162.5	124998.1	160672.3
7.5°	4745.6	5254.1	6071.9	7830.8	13867.4	25919.4	45263.4	72986.5	108902.2	152082.3	193568.3
5°	4869.6	5543.7	6490.7	8691.3	16200.6	29609.6	51425.0	83575.9	125166.7	172326.6	218130.0
2.5°	5033.5	5814.9	6762.4	8928.1	17134.6	31654.3	56307.2	92126.7	136779.4	186388.4	236222.6
0°	5261.3	5991.2	6928.4	9079.6	16844.1	32935.4	59299.4	96418.0	141868.4	192294.5	244562.3
-2.5°	5440.3	6092.8	7025.2	8957.5	16702.0	32332.9	57949.0	93916.5	136886.1	185612.3	237750.2
-5°	5556.1	6165.7	7067.6	9003.1	16343.7	30030.1	53960.5	87362.4	126740.2	170724.9	218936.7
-7.5°	5623.8	6192.4	7023.6	8716.0	14715.8	26892.8	46861.0	75281.5	110606.6	151307.7	191151.5
-10°	5664.3	6175.1	6931.6	8309.9	12378.1	21855.3	36995.7	61082.8	91690.0	124486.5	157077.2
-12.5°	5679.6	6138.6	6802.0	7728.3	9924.3	17110.0	29450.0	46544.6	69264.6	96167.6	124885.5
-15°	5649.8	6085.7	6676.6	7478.6	8939.7	12826.5	20549.7	32176.1	49110.8	69651.2	90461.6
-17.5°	5538.8	6030.9	6491.0	7106.8	7966.7	9799.7	14500.3	21962.8	32290.0	45867.0	57873.4
-20°	5391.8	5927.7	6321.6	6865.8	7541.1	8380.0	9887.5	14441.8	20232.5	28092.8	35929.1



REPORT NUMBER: P731461 (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°	5260.9	5751.2	6246.5	6620.0	7148.9	7700.3	8381.1	9683.9	12593.6	16517.9	21485.6
-25°	5140.1	5588.9	6097.2	6501.1	6799.5	7189.3	7615.8	8072.2	9060.6	9987.3	12383.9
-27.5°	4970.0	5435.0	5875.8	6307.0	6594.5	6771.4	7062.0	7345.7	7759.6	8127.7	8831.6
-30°	4772.3	5227.1	5646.6	6038.3	6332.9	6518.9	6663.1	6858.1	7077.2	7300.0	7602.5
-32.5°	4067.4	4983.0	5373.4	5727.1	6030.9	6249.7	6402.3	6530.4	6656.8	6799.5	6958.9
-35°	3295.2	4199.5	5080.6	5356.4	5643.4	5933.1	6159.3	6280.2	6390.3	6490.2	6587.7
-37.5°	2679.2	3317.2	4108.0	4859.5	5208.3	5500.9	5772.8	5984.0	6138.3	6231.9	6319.7
-40°	2438.1	2599.7	3207.9	3826.8	4421.9	4962.3	5238.8	5551.1	5804.8	5942.3	6037.8
-42.5°	2380.4	2454.6	2511.4	2903.5	3377.0	3832.6	4336.8	4837.3	5230.1	5491.9	5686.6
-45°	2254.1	2360.9	2445.7	2480.6	2502.1	2834.2	3224.7	3606.9	4047.9	4503.5	4917.2
-47.5°	2075.2	2214.1	2309.8	2384.7	2429.4	2443.5	2471.0	2556.7	2876.9	3213.6	3534.2
-50°	1875.7	2003.0	2117.6	2221.8	2283.7	2334.0	2382.1	2428.2	2467.3	2516.5	2560.9
-52.5°	1674.7	1791.4	1894.5	1985.9	2068.0	2147.3	2223.5	2280.5	2336.2	2395.9	2444.6
-55°	1495.8	1590.4	1676.7	1757.0	1831.1	1898.0	1967.0	2040.6	2116.8	2191.3	2249.1
-57.5°	1304.4	1394.9	1476.7	1544.7	1604.4	1654.3	1717.6	1786.6	1858.3	1924.6	1975.0
-60°	1111.4	1191.4	1266.3	1332.2	1388.8	1435.3	1493.8	1552.2	1616.1	1672.9	1717.7
-62.5°	928.2	995.6	1059.2	1116.8	1168.2	1215.4	1267.3	1319.4	1379.5	1432.4	1475.3
-65°	775.8	828.1	871.7	912.5	944.3	985.1	1035.3	1083.4	1135.7	1181.5	1219.7
-67.5°	610.9	659.1	699.0	734.6	762.6	791.8	829.0	867.3	907.8	944.2	976.3
-70°	466.8	499.2	525.1	551.7	580.4	608.2	638.0	670.7	704.8	734.8	761.2
-72.5°	360.0	376.1	391.2	412.9	432.1	451.5	470.4	493.8	519.1	541.9	562.5
-75°	297.5	307.4	319.0	329.2	338.2	348.5	358.9	374.1	390.7	406.4	421.1
-77.5°	266.9	274.1	279.9	284.7	288.9	295.1	301.8	313.1	325.3	338.6	351.8
-80°	241.0	246.4	251.3	255.6	259.3	264.5	269.8	279.8	290.2	301.4	312.6
-82.5°	217.0	221.3	225.2	229.0	232.7	237.1	241.5	250.3	259.3	268.6	277.9
-85°	194.4	198.1	201.6	204.7	207.7	211.5	215.2	222.7	230.3	238.1	246.0
-87.5°	174.6	178.0	181.3	184.1	186.9	190.2	193.5	200.1	206.7	213.3	219.9
-90°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



REPORT NUMBER: P731461 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-3S-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	201.8	202.3	202.8	203.3	202.8	202.3	201.8	201.3	195.4	189.4	184.5
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.0	1.0
85°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.8
82.5°	3.5	3.0	3.5	4.0	3.5	3.0	3.5	3.9	3.4	3.0	3.0
80°	3.5	3.0	3.5	4.0	3.5	3.0	3.5	4.0	3.5	3.0	3.0
77.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.1	3.1	3.0	3.0
75°	5.0	4.0	3.5	3.0	3.5	4.0	5.0	5.8	6.0	6.1	5.8
72.5°	20.4	20.4	20.7	20.8	20.7	20.4	20.4	19.9	18.2	16.6	15.5
70°	25.9	26.5	26.8	26.8	26.8	26.5	25.9	25.0	23.7	22.7	22.3
67.5°	26.4	25.9	25.4	24.8	25.4	25.9	26.4	26.2	24.6	23.5	22.9
65°	16.5	15.4	13.7	11.9	13.7	15.4	16.5	17.4	17.5	17.9	18.5
62.5°	9.6	9.2	9.0	8.9	9.0	9.2	9.6	9.9	10.1	10.7	11.7
60°	5.7	6.0	6.0	6.0	6.0	6.0	5.7	5.5	5.3	5.7	6.4
57.5°	4.4	4.9	5.4	6.0	5.4	4.9	4.4	4.1	4.0	4.3	4.7
55°	10.1	11.3	11.8	11.9	11.8	11.3	10.1	9.5	9.0	8.8	9.6
52.5°	53.6	50.9	48.5	46.6	48.5	50.9	53.6	55.5	54.1	49.3	42.9
50°	231.5	237.5	240.4	240.0	240.4	237.5	231.5	227.3	217.9	200.6	175.2
47.5°	476.8	480.2	477.4	470.1	477.4	480.2	476.8	467.0	462.4	461.7	455.3
45°	948.0	906.9	834.0	769.6	834.0	906.9	948.0	874.2	813.9	762.2	706.0
42.5°	1483.9	1533.0	1569.9	1586.8	1569.9	1533.0	1483.9	1394.9	1328.1	1282.1	1274.2
40°	1862.2	1809.7	1799.0	1807.0	1799.0	1809.7	1862.2	1913.2	1867.8	1893.3	1872.3
37.5°	2236.5	2284.2	2319.6	2262.2	2319.6	2284.2	2236.5	2230.8	2208.6	2167.6	2123.3
35°	2477.6	2647.3	2846.5	2906.9	2846.5	2647.3	2477.6	2393.3	2357.0	2311.6	2276.8
32.5°	2880.9	3060.1	3137.8	3156.8	3137.8	3060.1	2880.9	2674.4	2551.1	2492.4	2455.2
30°	3522.6	3701.6	3733.8	3759.8	3733.8	3701.6	3522.6	3248.1	2963.2	2829.2	2712.5
27.5°	4953.0	5353.4	5448.4	5515.2	5448.4	5353.4	4953.0	4467.1	3734.8	3394.7	3114.5
25°	9093.0	10134.5	10814.7	10748.7	10814.7	10134.5	9093.0	7586.3	5677.8	4791.9	3845.3
22.5°	19168.2	21212.4	22303.2	22283.9	22303.2	21212.4	19168.2	15330.3	11500.0	8423.1	6012.1
20°	38821.2	44870.1	48144.1	47771.1	48144.1	44870.1	38821.2	29886.1	23614.5	16137.1	10983.9
17.5°	67691.8	79374.7	87536.7	87871.0	87536.7	79374.7	67691.8	54609.4	42962.0	29687.1	19104.6
15°	104671.7	122006.2	134243.3	134241.8	134243.3	122006.2	104671.7	86165.2	66590.3	47929.5	31842.1
12.5°	149678.3	170398.8	184400.0	186499.7	184400.0	170398.8	149678.3	123256.8	92054.0	68540.9	46399.2
10°	192872.8	216342.9	237509.6	243337.5	237509.6	216342.9	192872.8	160672.3	124998.1	89162.5	58807.0
7.5°	229433.5	266353.7	285634.6	291707.2	285634.6	266353.7	229433.5	193568.3	152082.3	108902.2	72986.5
5°	265320.1	297277.7	313465.5	318152.0	313465.5	297277.7	265320.1	218130.0	172326.6	125166.7	83575.9
2.5°	284197.5	313531.4	336283.8	349478.8	336283.8	313531.4	284197.5	236222.6	186388.4	136779.4	92126.7
0°	291300.1	319169.5	349682.6	370465.4	349682.6	319169.5	291300.1	244562.3	192294.5	141868.4	96418.0
-2.5°	284196.0	311163.1	333649.2	344596.8	333649.2	311163.1	284196.0	237750.2	185612.3	136886.1	93916.5
-5°	262661.2	294380.5	310752.3	314897.0	310752.3	294380.5	262661.2	218936.7	170724.9	126740.2	87362.4
-7.5°	228267.1	258773.1	278845.8	283367.0	278845.8	258773.1	228267.1	191151.5	151307.7	110606.6	75281.5
-10°	189976.4	216033.8	229575.4	232924.0	229575.4	216033.8	189976.4	157077.2	124486.5	91690.0	61082.8
-12.5°	147615.9	166725.1	180548.4	182424.5	180548.4	166725.1	147615.9	124885.5	96167.6	69264.6	46544.6
-15°	109877.3	122515.1	133659.4	134940.0	133659.4	122515.1	109877.3	90461.6	69651.2	49110.8	32176.1
-17.5°	73612.1	84075.2	90310.7	92109.8	90310.7	84075.2	73612.1	57873.4	45867.0	32290.0	21962.8
-20°	44105.8	51592.9	55748.4	55904.6	55748.4	51592.9	44105.8	35929.1	28092.8	20232.5	14441.8



REPORT NUMBER: P731461 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	25588.1	29753.9	31952.6	31909.9	31952.6	29753.9	25588.1	21485.6	16517.9	12593.6	9683.9
-25°	14757.1	16581.2	17309.1	17335.0	17309.1	16581.2	14757.1	12383.9	9987.3	9060.6	8072.2
-27.5°	9396.5	9815.3	9982.9	10009.8	9982.9	9815.3	9396.5	8831.6	8127.7	7759.6	7345.7
-30°	7878.2	8123.1	8235.8	8267.3	8235.8	8123.1	7878.2	7602.5	7300.0	7077.2	6858.1
-32.5°	7108.5	7243.5	7334.5	7321.2	7334.5	7243.5	7108.5	6958.9	6799.5	6656.8	6530.4
-35°	6683.0	6766.6	6817.7	6842.2	6817.7	6766.6	6683.0	6587.7	6490.2	6390.3	6280.2
-37.5°	6407.1	6481.8	6530.2	6544.6	6530.2	6481.8	6407.1	6319.7	6231.9	6138.3	5984.0
-40°	6120.0	6182.1	6221.9	6236.2	6221.9	6182.1	6120.0	6037.8	5942.3	5804.8	5551.1
-42.5°	5810.0	5876.8	5908.6	5908.9	5908.6	5876.8	5810.0	5686.6	5491.9	5230.1	4837.3
-45°	5256.5	5462.0	5565.0	5569.7	5565.0	5462.0	5256.5	4917.2	4503.5	4047.9	3606.9
-47.5°	3825.9	4029.0	4192.3	4313.2	4192.3	4029.0	3825.9	3534.2	3213.6	2876.9	2556.7
-50°	2599.8	2613.2	2614.0	2602.4	2614.0	2613.2	2599.8	2560.9	2516.5	2467.3	2428.2
-52.5°	2482.5	2496.4	2506.5	2512.1	2506.5	2496.4	2482.5	2444.6	2395.9	2336.2	2280.5
-55°	2291.9	2309.4	2316.6	2313.8	2316.6	2309.4	2291.9	2249.1	2191.3	2116.8	2040.6
-57.5°	2008.8	2020.4	2025.8	2024.2	2025.8	2020.4	2008.8	1975.0	1924.6	1858.3	1786.6
-60°	1745.1	1753.7	1758.7	1758.4	1758.7	1753.7	1745.1	1717.7	1672.9	1616.1	1552.2
-62.5°	1499.4	1507.1	1512.6	1513.4	1512.6	1507.1	1499.4	1475.3	1432.4	1379.5	1319.4
-65°	1238.9	1244.7	1248.4	1247.6	1248.4	1244.7	1238.9	1219.7	1181.5	1135.7	1083.4
-67.5°	990.3	994.4	997.8	997.7	997.8	994.4	990.3	976.3	944.2	907.8	867.3
-70°	769.6	770.0	771.6	770.6	771.6	770.0	769.6	761.2	734.8	704.8	670.7
-72.5°	567.3	566.8	566.4	564.3	566.4	566.8	567.3	562.5	541.9	519.1	493.8
-75°	422.6	421.1	419.7	417.5	419.7	421.1	422.6	421.1	406.4	390.7	374.1
-77.5°	353.4	353.4	351.0	348.1	351.0	353.4	353.4	351.8	338.6	325.3	313.1
-80°	313.2	312.9	311.8	310.4	311.8	312.9	313.2	312.6	301.4	290.2	279.8
-82.5°	278.9	279.3	279.1	278.7	279.1	279.3	278.9	277.9	268.6	259.3	250.3
-85°	246.9	247.7	247.4	246.9	247.4	247.7	246.9	246.0	238.1	230.3	222.7
-87.5°	220.5	221.1	221.2	221.2	221.2	221.1	220.5	219.9	213.3	206.7	200.1
-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°	179.5	176.1	172.6	170.1	167.6	164.7	161.7	157.2	152.7	148.3	143.8
87.5°	1.0	1.0	1.0	1.4	1.9	1.8	1.8	1.8	1.8	1.9	2.0
85°	2.8	2.7	2.6	2.3	2.0	2.0	2.0	2.3	2.5	2.5	2.4
82.5°	3.0	3.0	3.0	2.8	2.6	2.5	2.5	2.7	3.0	3.0	3.0
80°	3.0	3.4	3.6	3.5	3.5	3.4	3.3	3.2	3.1	3.0	3.1
77.5°	3.0	3.2	3.5	3.8	4.0	4.1	4.1	4.0	3.9	4.1	4.1
75°	5.7	6.1	6.0	5.6	5.3	5.0	4.9	4.7	4.7	4.8	5.0
72.5°	14.5	14.2	13.7	12.5	11.2	11.2	10.9	9.9	8.2	6.2	5.0
70°	22.4	22.9	23.5	24.4	24.4	23.5	21.3	18.8	16.1	13.3	10.3
67.5°	24.3	26.8	29.0	30.8	31.2	31.7	30.7	29.3	28.8	26.3	19.0
65°	21.1	24.8	27.6	29.3	30.0	32.0	34.7	35.1	38.0	38.5	31.5
62.5°	14.4	17.9	20.2	22.7	24.0	26.3	31.2	36.3	43.5	46.6	40.3
60°	8.3	10.1	13.0	15.6	17.4	21.1	27.2	35.2	44.9	46.0	44.5
57.5°	6.3	7.9	10.0	12.4	13.2	17.5	23.7	33.2	42.9	44.7	42.1
55°	10.6	12.1	13.3	16.0	17.8	21.3	24.3	32.2	41.7	45.5	45.8
52.5°	32.3	39.2	39.1	31.4	32.6	37.0	34.4	40.6	46.9	52.1	54.1
50°	161.9	161.0	139.1	112.3	117.2	88.2	88.8	78.4	69.6	72.2	69.3
47.5°	429.1	394.0	359.4	331.6	296.2	262.4	235.8	186.2	171.3	121.4	120.2
45°	681.7	654.8	622.4	569.9	532.6	481.8	444.0	394.5	335.4	285.4	203.4
42.5°	1218.7	992.7	845.1	789.8	714.0	661.3	620.0	577.3	533.4	470.6	394.3
40°	1824.6	1767.4	1450.1	1096.2	930.2	813.1	759.0	721.6	699.0	650.7	578.0
37.5°	2086.7	2026.0	1939.5	1771.8	1317.7	1054.1	927.2	854.6	848.9	804.3	739.8
35°	2231.8	2187.2	2143.4	2033.7	1791.1	1560.1	1206.4	1037.1	955.2	935.9	883.1
32.5°	2412.3	2370.7	2313.7	2256.6	2196.6	2173.4	1779.6	1365.5	1088.1	1033.8	987.1
30°	2626.0	2589.8	2521.6	2469.4	2464.0	2443.0	2357.1	1852.6	1403.9	1118.9	1086.6
27.5°	2996.5	2846.8	2766.1	2741.8	2735.9	2723.6	2664.6	2426.8	1778.1	1356.4	1171.6
25°	3596.1	3303.5	3160.5	3123.6	3125.5	3080.9	3038.9	2842.4	2359.0	1643.8	1259.4
22.5°	4570.1	4056.7	3796.5	3671.2	3586.4	3523.1	3396.0	3212.6	2961.6	2055.9	1505.0
20°	6668.8	5065.1	4525.1	4222.2	3985.5	3815.1	3644.2	3475.5	3193.1	2556.3	1764.1
17.5°	11777.8	7076.0	5262.8	4754.1	4388.9	4087.7	3894.6	3678.9	3400.9	2952.6	1982.6
15°	18510.2	10666.9	6796.4	5374.9	4853.6	4450.2	4221.1	3945.8	3652.2	3198.8	2303.1
12.5°	28122.8	15494.3	8245.3	5911.9	5238.7	4759.1	4443.4	4217.2	3899.8	3455.7	2691.6
10°	35998.2	20822.8	11263.4	7032.5	5636.6	4985.3	4607.7	4363.8	4076.1	3690.7	3054.5
7.5°	45263.4	25919.4	13867.4	7830.8	6071.9	5254.1	4745.6	4467.1	4192.5	3783.0	3253.1
5°	51425.0	29609.6	16200.6	8691.3	6490.7	5543.7	4869.6	4541.5	4250.7	3812.2	3386.7
2.5°	56307.2	31654.3	17134.6	8928.1	6762.4	5814.9	5033.5	4634.0	4292.0	3847.6	3488.6
0°	59299.4	32935.4	16844.1	9079.6	6928.4	5991.2	5261.3	4736.7	4310.2	3869.9	3543.6
-2.5°	57949.0	32332.9	16702.0	8957.5	7025.2	6092.8	5440.3	4967.0	4410.3	3902.3	3567.2
-5°	53960.5	30030.1	16343.7	9003.1	7067.6	6165.7	5556.1	5113.3	4502.6	3941.1	3545.2
-7.5°	46861.0	26892.8	14715.8	8716.0	7023.6	6192.4	5623.8	5186.9	4618.5	4062.6	3519.9
-10°	36995.7	21855.3	12378.1	8309.9	6931.6	6175.1	5664.3	5193.0	4662.8	4150.4	3434.4
-12.5°	29450.0	17110.0	9924.3	7728.3	6802.0	6138.6	5679.6	5155.4	4679.4	4231.3	3331.9
-15°	20549.7	12826.5	8939.7	7478.6	6676.6	6085.7	5649.8	5084.7	4661.9	4267.5	3141.5
-17.5°	14500.3	9799.7	7966.7	7106.8	6491.0	6030.9	5538.8	5030.9	4608.2	4073.5	2848.2
-20°	9887.5	8380.0	7541.1	6865.8	6321.6	5927.7	5391.8	4951.0	4502.5	3667.0	2633.6



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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°	8381.1	7700.3	7148.9	6620.0	6246.5	5751.2	5260.9	4830.6	4347.5	3206.4	2397.0
-25°	7615.8	7189.3	6799.5	6501.1	6097.2	5588.9	5140.1	4639.2	3822.6	2825.7	2179.1
-27.5°	7062.0	6771.4	6594.5	6307.0	5875.8	5435.0	4970.0	4348.5	3222.3	2516.1	2185.2
-30°	6663.1	6518.9	6332.9	6038.3	5646.6	5227.1	4772.3	3718.1	2812.6	2273.9	2177.2
-32.5°	6402.3	6249.7	6030.9	5727.1	5373.4	4983.0	4067.4	3124.6	2434.9	2258.6	2126.0
-35°	6159.3	5933.1	5643.4	5356.4	5080.6	4199.5	3295.2	2616.4	2336.1	2222.5	2056.3
-37.5°	5772.8	5500.9	5208.3	4859.5	4108.0	3317.2	2679.2	2399.3	2300.1	2143.0	1952.5
-40°	5238.8	4962.3	4421.9	3826.8	3207.9	2599.7	2438.1	2360.9	2209.7	2037.1	1827.2
-42.5°	4336.8	3832.6	3377.0	2903.5	2511.4	2454.6	2380.4	2249.3	2089.8	1893.1	1695.2
-45°	3224.7	2834.2	2502.1	2480.6	2445.7	2360.9	2254.1	2102.7	1928.2	1742.5	1555.4
-47.5°	2471.0	2443.5	2429.4	2384.7	2309.8	2214.1	2075.2	1925.8	1757.2	1586.7	1426.6
-50°	2382.1	2334.0	2283.7	2221.8	2117.6	2003.0	1875.7	1735.3	1587.0	1444.0	1292.8
-52.5°	2223.5	2147.3	2068.0	1985.9	1894.5	1791.4	1674.7	1558.6	1433.2	1293.9	1154.1
-55°	1967.0	1898.0	1831.1	1757.0	1676.7	1590.4	1495.8	1385.9	1262.6	1134.5	1015.7
-57.5°	1717.6	1654.3	1604.4	1544.7	1476.7	1394.9	1304.4	1197.4	1088.7	981.6	878.0
-60°	1493.8	1435.3	1388.8	1332.2	1266.3	1191.4	1111.4	1020.6	922.2	842.4	764.3
-62.5°	1267.3	1215.4	1168.2	1116.8	1059.2	995.6	928.2	863.3	790.0	717.1	641.1
-65°	1035.3	985.1	944.3	912.5	871.7	828.1	775.8	718.2	650.1	583.2	513.5
-67.5°	829.0	791.8	762.6	734.6	699.0	659.1	610.9	559.3	509.7	460.4	405.9
-70°	638.0	608.2	580.4	551.7	525.1	499.2	466.8	429.7	388.1	355.5	325.9
-72.5°	470.4	451.5	432.1	412.9	391.2	376.1	360.0	340.1	317.4	292.2	270.5
-75°	358.9	348.5	338.2	329.2	319.0	307.4	297.5	286.2	274.1	260.6	247.1
-77.5°	301.8	295.1	288.9	284.7	279.9	274.1	266.9	257.7	248.3	237.1	226.0
-80°	269.8	264.5	259.3	255.6	251.3	246.4	241.0	233.2	224.9	215.5	206.2
-82.5°	241.5	237.1	232.7	229.0	225.2	221.3	217.0	210.3	203.3	195.3	187.2
-85°	215.2	211.5	207.7	204.7	201.6	198.1	194.4	188.6	182.6	175.9	169.1
-87.5°	193.5	190.2	186.9	184.1	181.3	178.0	174.6	169.7	164.8	159.6	154.3
-90°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	2.0



REPORT NUMBER: P731461 (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°	137.9	131.9	127.5	123.0	118.1	113.1	107.7	102.2	95.3	88.3	79.9
87.5°	2.0	2.0	2.3	2.6	2.5	2.5	2.5	2.4	2.6	2.7	3.0
85°	2.4	2.3	2.6	3.0	3.0	3.0	2.9	2.9	3.2	3.4	3.4
82.5°	3.0	2.9	2.9	3.0	3.3	3.5	3.4	3.3	3.7	4.0	3.9
80°	3.4	3.6	3.4	3.3	3.6	4.0	3.8	3.8	4.1	4.4	4.3
77.5°	4.1	4.2	4.0	3.9	3.9	4.1	4.2	4.2	4.5	4.8	4.8
75°	5.0	4.7	4.2	4.2	4.3	4.2	4.5	4.7	5.1	5.2	5.3
72.5°	5.0	5.0	4.6	4.5	5.1	5.2	5.2	5.3	5.7	6.0	5.9
70°	7.5	5.9	5.5	5.7	6.1	6.4	6.5	6.6	6.5	6.8	6.9
67.5°	12.0	9.9	8.3	7.2	7.2	7.7	7.8	8.3	8.2	7.8	7.9
65°	23.1	16.7	11.7	10.3	9.1	9.0	9.3	10.1	10.1	9.9	9.1
62.5°	33.1	25.7	19.7	14.8	12.3	12.3	11.0	12.2	12.2	12.1	11.0
60°	42.1	34.4	28.5	23.4	18.9	16.6	15.7	14.5	14.8	14.5	13.3
57.5°	42.5	41.9	39.2	33.2	28.9	24.2	21.6	19.7	17.9	17.7	15.8
55°	43.1	43.7	48.9	45.4	41.0	34.6	30.2	26.6	22.4	21.2	18.4
52.5°	51.5	53.0	57.1	59.9	56.7	47.9	43.2	34.2	30.8	25.1	22.0
50°	66.1	71.3	71.8	76.9	74.3	68.5	57.3	48.0	40.0	30.7	26.0
47.5°	103.2	107.8	98.7	101.2	96.6	92.3	78.8	64.7	49.9	39.9	30.1
45°	196.2	168.7	152.9	139.7	127.7	122.8	104.7	83.2	66.9	49.7	34.3
42.5°	318.0	276.8	244.8	185.9	179.1	158.6	135.9	111.5	85.3	59.8	41.4
40°	489.7	411.2	356.8	294.1	242.5	199.2	176.0	143.4	105.0	72.6	50.5
37.5°	651.4	551.1	482.0	405.8	322.2	265.5	220.3	177.6	128.3	90.6	59.8
35°	781.4	681.8	588.2	509.6	424.9	332.0	267.7	215.8	158.4	109.3	69.3
32.5°	899.3	793.4	687.3	598.8	506.8	396.8	323.1	253.8	188.6	128.7	79.3
30°	1003.8	902.6	781.7	672.0	574.2	464.8	375.5	289.2	218.9	148.6	90.8
27.5°	1117.8	1015.8	877.5	751.6	633.6	523.8	417.3	322.2	249.1	168.8	106.0
25°	1225.0	1121.2	984.2	840.9	693.6	570.8	456.3	352.9	277.5	189.3	120.3
22.5°	1296.8	1210.1	1082.2	935.4	759.8	616.8	494.4	386.4	296.7	208.1	133.7
20°	1354.8	1288.1	1168.8	1006.8	831.7	671.0	532.5	413.4	314.5	225.0	146.2
17.5°	1437.4	1351.2	1230.2	1067.0	897.7	725.7	569.2	438.7	330.9	240.2	157.8
15°	1640.5	1406.4	1289.9	1123.4	948.6	772.4	605.0	462.7	345.8	253.7	168.3
12.5°	1851.2	1460.1	1347.7	1172.4	986.2	812.3	639.3	485.1	359.1	267.3	177.6
10°	2048.9	1506.9	1401.5	1217.0	1018.8	845.9	671.7	509.6	379.0	281.3	185.9
7.5°	2216.1	1549.4	1452.1	1257.4	1048.3	876.1	704.3	540.2	399.0	294.2	193.3
5°	2357.2	1588.5	1501.2	1307.2	1083.3	904.1	733.1	568.5	417.8	305.7	199.7
2.5°	2453.4	1624.0	1545.4	1353.6	1113.8	927.3	757.8	594.2	435.0	315.8	205.0
0°	2517.1	1656.2	1582.9	1393.4	1139.5	946.1	778.5	616.9	450.3	324.3	209.3
-2.5°	2537.1	1689.8	1613.7	1427.2	1180.5	971.1	793.7	627.4	460.7	333.8	216.4
-5°	2522.8	1720.8	1638.7	1454.0	1214.9	991.2	804.9	634.6	468.7	341.4	222.3
-7.5°	2479.8	1755.7	1659.6	1474.1	1241.3	1005.6	811.9	638.4	474.5	347.0	226.9
-10°	2406.3	1790.7	1676.3	1481.6	1245.4	1013.1	815.2	639.0	478.1	350.5	230.1
-12.5°	2313.8	1822.8	1686.7	1480.3	1240.5	1014.6	818.0	637.5	479.1	351.8	231.8
-15°	2195.5	1863.2	1700.0	1471.1	1229.5	1011.5	815.5	632.6	476.1	349.7	232.0
-17.5°	2040.5	1900.9	1708.5	1459.3	1214.4	1003.8	807.3	623.3	470.5	344.1	229.9
-20°	2036.6	1917.2	1703.9	1436.5	1192.8	989.7	793.3	609.3	462.2	336.3	226.0



REPORT NUMBER: P731461 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-3S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2065.0	1910.4	1677.1	1406.3	1167.0	969.8	774.7	591.1	451.2	326.6	220.7
-25°	2080.6	1897.6	1639.7	1373.8	1140.5	944.5	753.0	571.9	437.4	314.8	214.0
-27.5°	2055.2	1859.4	1590.8	1330.4	1110.3	914.5	727.9	558.2	424.9	301.0	205.9
-30°	2011.7	1787.4	1531.0	1280.1	1071.2	879.7	698.2	541.6	411.1	289.8	196.5
-32.5°	1947.0	1709.8	1463.4	1231.8	1026.7	839.7	664.7	521.8	395.1	280.3	190.4
-35°	1845.0	1622.4	1390.9	1177.4	977.4	798.9	632.6	498.8	376.8	268.3	185.1
-37.5°	1734.8	1522.1	1324.0	1118.4	925.8	754.3	604.4	474.5	356.4	253.7	179.2
-40°	1619.3	1420.7	1237.8	1054.7	872.7	706.3	572.0	447.0	336.5	236.7	172.0
-42.5°	1498.3	1321.5	1148.7	980.5	814.8	665.8	535.7	415.3	312.6	224.0	163.6
-45°	1385.2	1217.6	1054.6	902.0	753.0	620.6	495.6	380.4	286.0	212.9	157.2
-47.5°	1266.1	1109.6	960.0	818.3	696.7	570.4	450.3	347.9	257.5	200.2	154.7
-50°	1143.5	999.8	863.6	742.5	631.1	514.7	403.1	312.8	240.4	185.2	151.7
-52.5°	1019.1	889.3	773.5	667.2	560.4	453.8	359.4	276.5	222.1	177.1	148.0
-55°	893.6	788.2	688.1	586.4	485.6	397.1	312.1	253.5	202.5	171.6	144.0
-57.5°	786.1	692.8	595.9	500.7	416.9	339.3	276.9	229.3	192.6	165.7	141.3
-60°	679.4	587.6	498.2	423.3	351.9	292.5	248.7	209.2	185.3	159.8	137.9
-62.5°	560.1	481.2	414.8	349.6	299.9	258.6	222.6	199.2	177.3	155.0	134.0
-65°	451.5	391.1	334.5	297.1	260.1	228.9	210.0	188.6	170.0	149.8	129.8
-67.5°	351.4	318.7	285.6	252.1	231.8	214.6	196.7	179.7	162.8	144.2	125.6
-70°	295.4	265.7	246.3	231.1	216.0	200.5	186.4	171.5	155.4	138.7	121.0
-72.5°	255.6	241.4	227.4	213.7	201.5	188.9	176.4	163.0	148.2	132.9	116.2
-75°	234.0	221.9	210.4	199.0	188.0	177.0	166.1	154.0	140.5	126.8	111.1
-77.5°	215.2	204.5	194.2	184.5	175.3	165.9	155.6	144.7	132.6	120.2	105.6
-80°	196.9	187.8	179.3	170.9	162.9	154.6	144.9	135.3	124.4	113.2	99.9
-82.5°	179.2	171.2	164.1	156.9	149.7	142.3	134.0	125.8	115.9	106.0	94.5
-85°	162.0	154.9	148.7	142.4	136.1	129.7	123.4	117.0	108.6	100.2	89.7
-87.5°	148.2	142.1	137.0	132.0	126.8	121.4	115.6	109.7	102.0	94.3	84.9
-90°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.5



REPORT NUMBER: P731461 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	71.4	60.0	48.6	35.2	21.8	12.4	3.0
87.5°	3.3	3.3	3.3	3.3	3.2	3.2	3.0
85°	3.5	3.7	3.7	3.5	3.4	3.5	3.0
82.5°	3.8	4.0	4.0	3.8	3.5	3.7	3.0
80°	4.1	4.3	4.4	4.0	3.7	4.0	3.0
77.5°	4.7	4.7	4.7	4.3	3.9	4.2	3.0
75°	5.2	5.3	5.1	4.5	4.2	4.4	3.0
72.5°	5.8	5.9	5.6	4.8	4.4	4.7	3.0
70°	6.5	6.4	6.2	5.1	4.6	4.9	3.0
67.5°	7.7	7.0	6.8	5.7	4.9	5.2	3.0
65°	8.9	8.0	7.4	6.3	5.2	5.4	3.0
62.5°	10.3	9.3	8.0	6.9	5.6	5.7	3.0
60°	11.7	10.7	8.7	7.5	5.9	6.0	3.0
57.5°	13.9	12.1	10.0	8.1	6.6	6.2	3.0
55°	16.3	13.6	11.4	8.7	7.3	6.5	3.0
52.5°	18.6	15.2	12.8	9.4	8.0	6.8	3.0
50°	21.0	17.4	14.2	10.0	8.7	7.0	3.0
47.5°	23.6	19.7	15.7	10.8	9.4	7.3	3.0
45°	27.3	22.1	17.2	12.0	10.2	7.6	3.0
42.5°	31.1	24.6	18.8	13.1	10.9	7.8	3.0
40°	35.2	27.1	20.6	14.6	11.7	8.1	3.0
37.5°	39.7	29.8	22.6	16.2	12.5	8.4	3.0
35°	44.3	33.1	24.6	17.9	13.3	8.7	3.0
32.5°	50.0	36.7	26.6	19.5	14.1	8.9	3.0
30°	58.3	40.4	28.6	21.2	14.9	9.2	3.0
27.5°	66.4	44.0	31.1	22.8	15.8	9.5	3.0
25°	74.3	47.6	33.7	24.4	16.6	9.7	3.0
22.5°	82.1	51.3	36.3	26.1	17.4	10.0	3.0
20°	89.7	55.0	38.8	27.7	18.2	10.3	3.0
17.5°	96.7	58.6	41.2	29.2	19.0	10.5	3.0
15°	103.1	62.0	43.5	30.7	19.7	10.7	3.0
12.5°	109.1	65.2	45.8	32.2	20.5	11.0	3.0
10°	114.5	68.3	47.9	33.6	21.2	11.2	3.0
7.5°	119.5	71.1	50.0	35.0	21.9	11.4	3.0
5°	123.9	73.7	51.9	36.3	22.6	11.6	3.0
2.5°	127.7	76.1	53.8	37.5	23.2	11.7	3.0
0°	130.9	78.3	55.5	38.7	23.8	11.9	3.0
-2.5°	135.1	81.6	58.0	40.4	24.9	12.4	3.0
-5°	138.7	84.7	60.3	42.0	25.9	12.9	3.0
-7.5°	141.6	87.5	62.5	43.6	26.8	13.3	3.0
-10°	143.8	90.1	64.5	45.0	27.7	13.7	3.0
-12.5°	145.3	92.3	66.4	46.3	28.6	14.1	3.0
-15°	146.2	94.4	68.1	47.5	29.4	14.5	3.0
-17.5°	146.3	96.1	69.6	48.6	30.1	14.9	3.0
-20°	145.7	97.5	71.0	49.6	30.8	15.2	3.0



REPORT NUMBER: P731461 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-3S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	144.6	98.6	72.1	50.5	31.4	15.5	3.0
-25°	142.7	99.6	73.1	51.2	31.9	15.8	3.0
-27.5°	140.0	100.4	73.8	51.8	32.4	16.1	3.0
-30°	136.6	100.9	74.4	52.3	32.8	16.3	3.0
-32.5°	132.5	101.2	75.1	52.6	33.1	16.5	3.0
-35°	131.0	101.1	75.7	52.8	33.3	16.6	3.0
-37.5°	130.5	101.0	76.0	52.8	33.5	16.8	3.0
-40°	129.8	101.2	76.2	52.8	33.6	16.8	3.0
-42.5°	128.6	101.2	76.2	52.6	33.6	16.9	3.0
-45°	127.0	100.9	76.1	52.6	33.5	16.9	3.0
-47.5°	125.0	100.3	75.8	52.3	33.4	16.9	3.0
-50°	123.6	99.6	75.3	52.2	33.2	16.9	3.0
-52.5°	122.0	98.6	74.5	52.0	32.9	16.8	3.0
-55°	120.1	97.1	73.6	51.6	32.6	16.7	3.0
-57.5°	117.8	95.3	72.4	51.2	32.1	16.6	3.0
-60°	115.3	93.4	71.1	50.6	31.6	16.5	3.0
-62.5°	112.6	91.2	70.0	49.8	31.2	16.3	3.0
-65°	109.6	88.8	68.8	49.0	30.6	16.0	3.0
-67.5°	106.4	86.4	67.3	48.0	30.0	15.8	3.0
-70°	102.9	83.9	65.7	46.9	29.3	15.5	3.0
-72.5°	99.3	81.3	64.0	45.7	28.6	15.2	3.0
-75°	95.4	78.4	62.1	44.5	27.8	14.9	3.0
-77.5°	91.2	75.3	60.1	43.2	26.9	14.5	3.0
-80°	86.9	72.4	58.1	41.8	26.0	14.1	3.0
-82.5°	83.1	69.5	55.9	40.3	25.0	13.7	3.0
-85°	79.4	66.4	53.6	38.7	24.0	13.3	3.0
-87.5°	75.5	63.3	51.1	37.0	22.9	12.9	3.0
-90°	3.0	3.0	3.0	3.0	3.0	3.0	3.0

(END OF REPORT)

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

Scaled Data Report



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

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

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

Scaled Data Report

