

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: P731613 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-70-5S-VHE**

Issue Date: 11/16/2023

Test Information

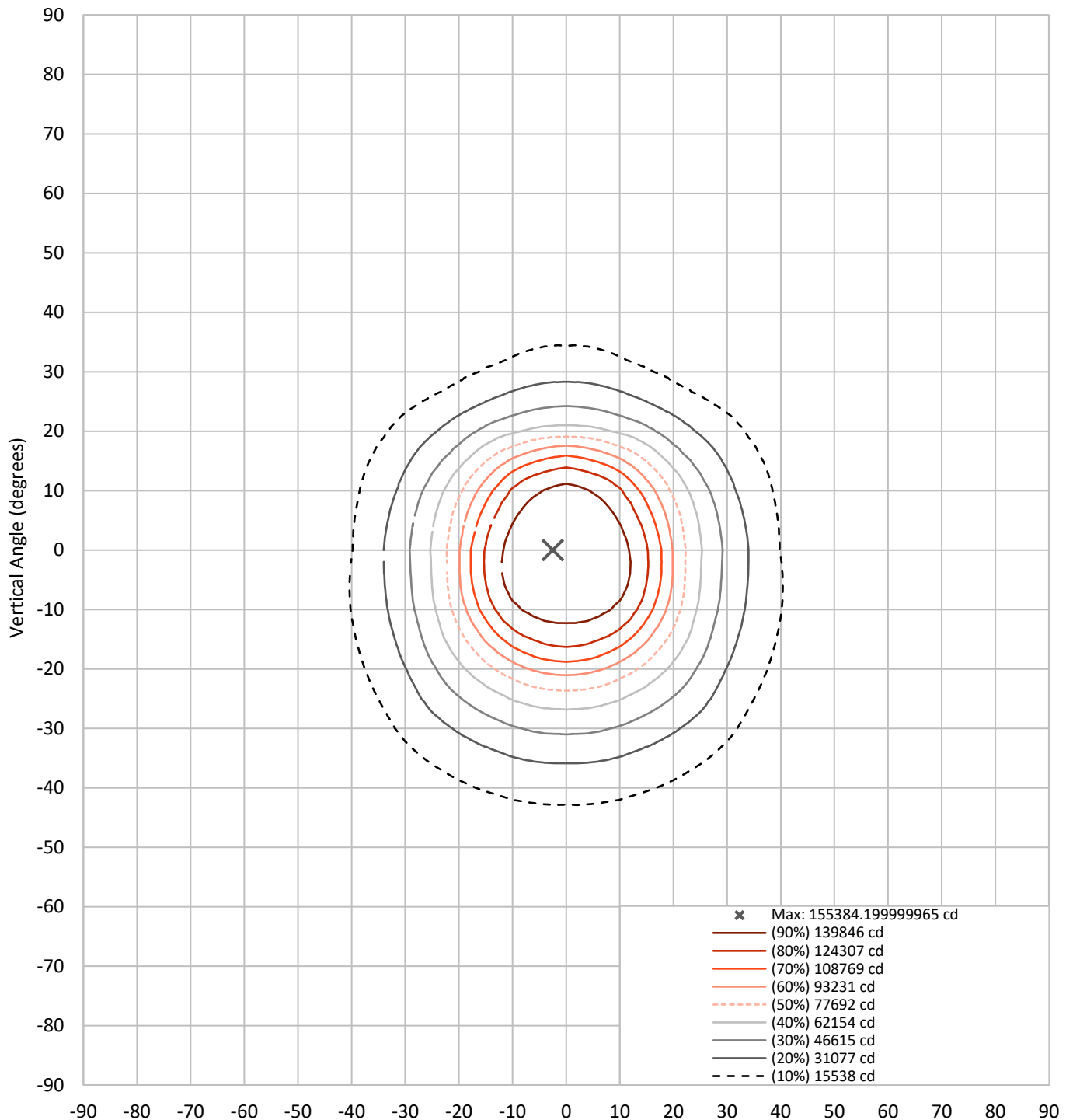
Test Method: LM-79-08
Report Number: P731613 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-5)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680N-40-70-5S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 5S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	101176.2 lumens	Max Intensity:	155384.2 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	145.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	44.5°H x 42.5°V	Field Angle (10%):	79.6°H x 77.3°V
Beam Lumens:	55555.3 lumens	Field Lumens:	92968.5 lumens
Beam Efficiency:	54.9%	Field Efficiency:	91.9%
Input Watts (W):	697.2		
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





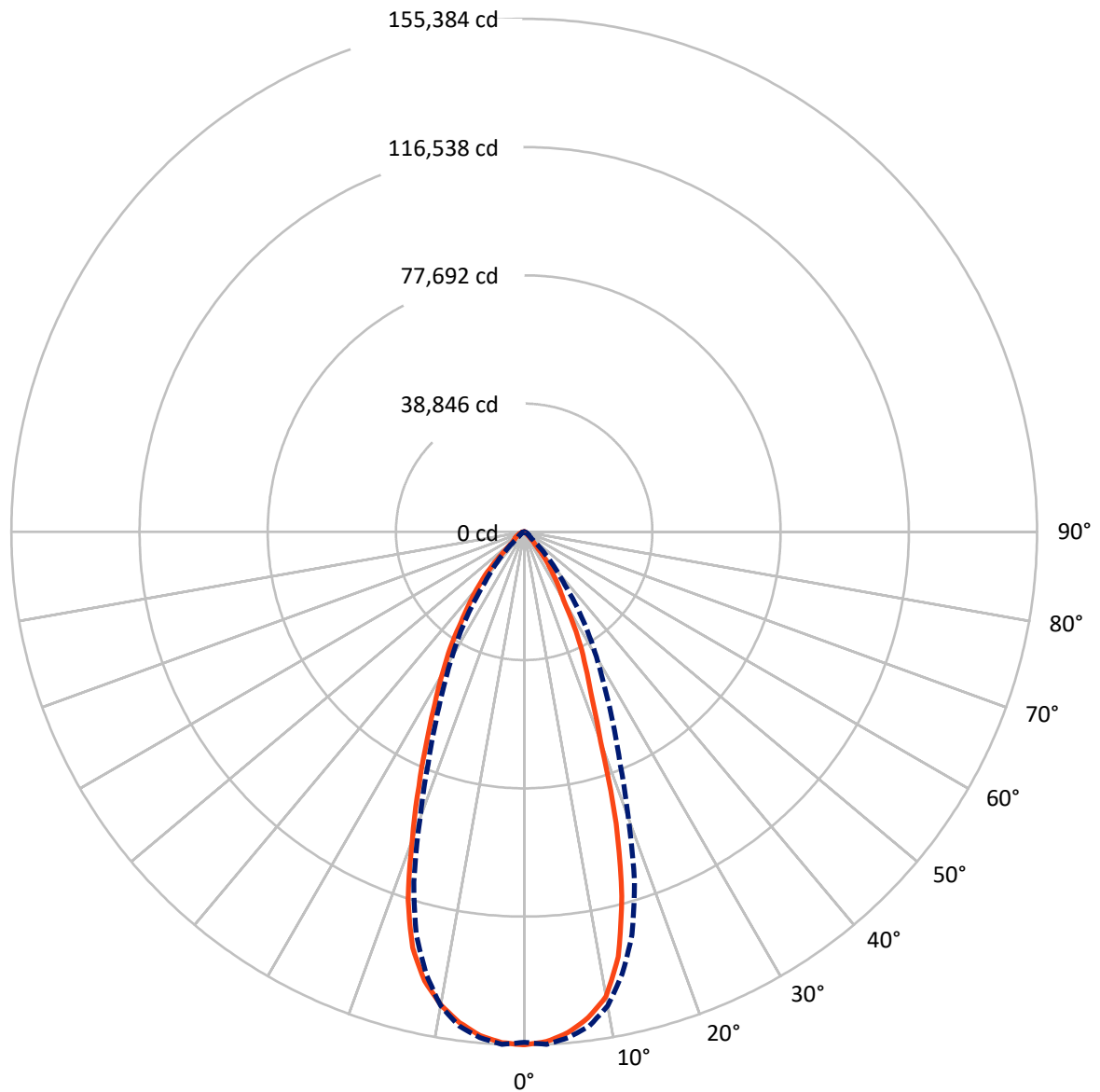
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Lumen Table

90	0.4	1.5	2.5	3.4	3.9	3.4	2.5	1.5	0.4							
80	0.4	0.2	0.3	0.6	0.8	0.8	0.9	1.0	1.0	0.9	0.8	0.8	0.6	0.3	0.2	0.4
70	0.4	0.5	0.9	1.4	1.5	1.1	1.3	1.5	1.5	1.3	1.1	1.5	1.4	0.9	0.5	0.4
60	1.2	1.4	3.0	6.1	10.9	22.2	49.1	66.2	66.2	49.1	22.2	10.9	6.1	3.0	1.4	1.2
50	1.2	3.1	10.0	20.5	52.0	154.4	286.0	421.4	421.4	286.0	154.4	52.0	20.5	10.0	3.1	1.2
40	2.5	5.2	17.5	44.5	214.2	506.3	930.8	1278.0	1278.0	930.8	506.3	214.2	44.5	17.5	5.2	2.5
30	2.5	7.2	23.3	100.7	467.8	1156.5	2250.1	3215.7	3215.7	2250.1	1156.5	467.8	100.7	23.3	7.2	2.5
20	3.7	8.9	27.5	152.8	658.6	1679.3	3369.0	4469.1	4469.1	3369.0	1679.3	658.6	152.8	27.5	8.9	3.7
10	3.7	9.9	30.6	162.9	709.6	1761.0	3574.1	4539.0	4539.0	3574.1	1761.0	709.6	162.9	30.6	9.9	3.7
0	4.4	10.2	32.2	134.3	604.2	1471.7	2772.4	3743.4	3743.4	2772.4	1471.7	604.2	134.3	32.2	10.2	4.4
-10	4.4	9.8	32.2	83.4	391.8	974.4	1620.4	2100.5	2100.5	1620.4	974.4	391.8	83.4	32.2	9.8	4.4
-20	4.4	8.8	28.2	60.1	159.5	474.0	797.6	1013.3	1013.3	797.6	474.0	159.5	60.1	28.2	8.8	4.4
-30	4.4	7.3	20.9	45.5	77.0	125.8	235.3	329.9	329.9	235.3	125.8	77.0	45.5	20.9	7.3	4.4
-40	4.0	6.0	13.9	28.5	50.4	70.5	86.8	99.3	99.3	86.8	70.5	50.4	28.5	13.9	6.0	4.0
-50	4.0	4.8	9.2	16.1	26.1	35.7	45.4	52.3	52.3	45.4	35.7	26.1	16.1	9.2	4.8	4.0
-60	4.0	4.8	9.2	16.1	26.1	35.7	45.4	52.3	52.3	45.4	35.7	26.1	16.1	9.2	4.8	4.0
-70	4.0	4.8	9.2	16.1	26.1	35.7	45.4	52.3	52.3	45.4	35.7	26.1	16.1	9.2	4.8	4.0
-80	2.9	17.7	39.1	61.5	75.3	61.5	39.1	17.7	2.9							
-90	2.9	17.7	39.1	61.5	75.3	61.5	39.1	17.7	2.9							

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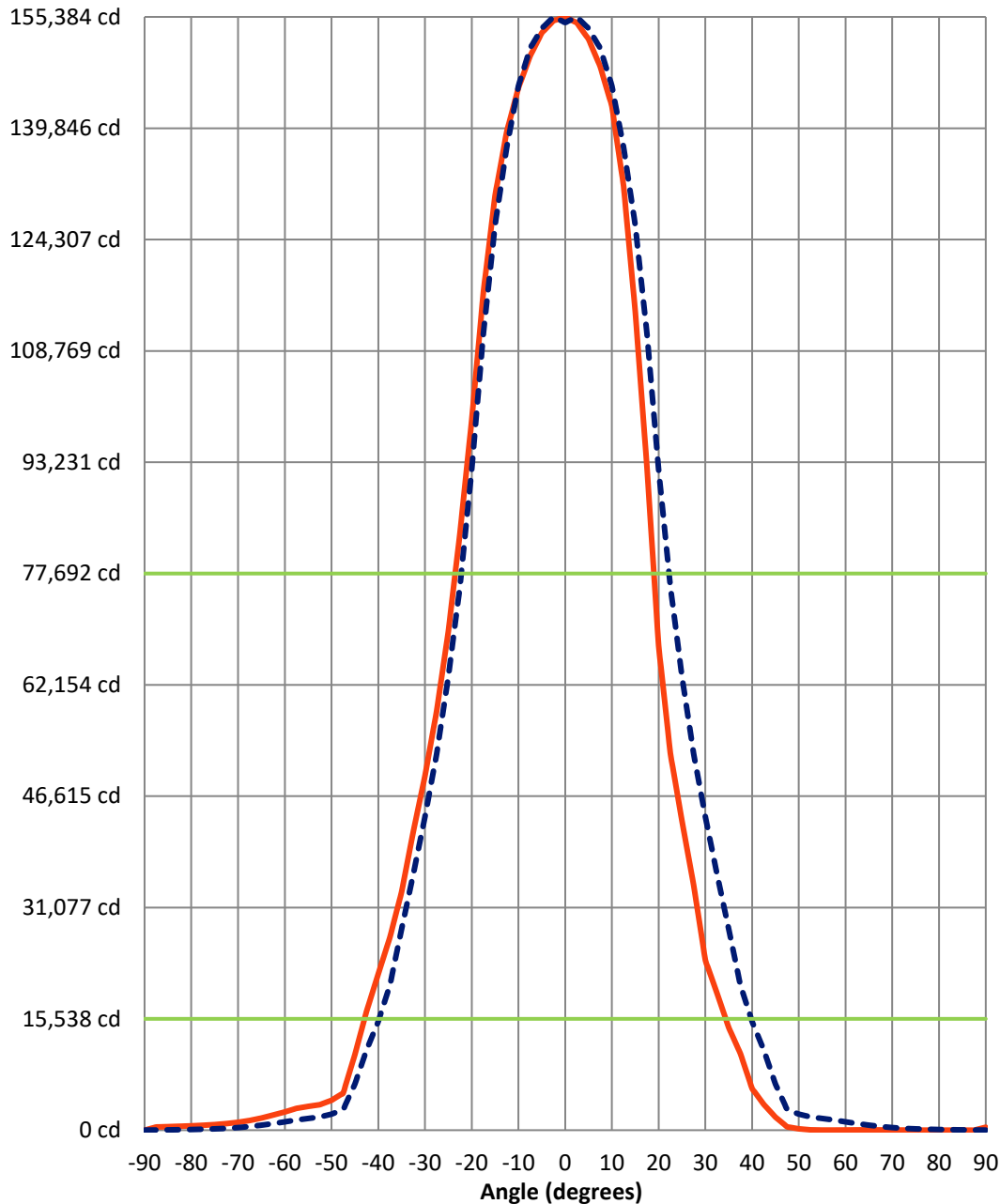
Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 44.5°
 V Angle: 42.5°
 Lumens: 55555.3
 Efficiency: 54.9%

Field:
 H Angle: 79.6°
 V Angle: 77.3°
 Lumens: 92968.5
 Efficiency: 91.9%

Spill:
 Lumens: 8207.7
 Efficiency: 8.1%

— Vertical Distribution through -2.5-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°	13.4	26.2	39.1	64.7	90.4	114.2	138.0	157.6	177.1	191.1	205.1
87.5°	13.4	12.5	11.3	11.4	11.4	11.5	11.6	11.1	10.6	10.5	10.3
85°	13.4	12.7	11.7	11.8	11.8	12.0	12.2	11.9	11.5	11.2	10.8
82.5°	13.4	13.0	12.0	12.2	12.3	12.6	12.9	12.6	12.3	11.9	11.4
80°	13.4	13.3	12.3	12.6	12.7	13.1	13.5	13.4	13.2	12.7	12.0
77.5°	13.4	13.6	12.7	13.0	13.1	13.7	14.2	14.1	14.1	13.5	12.6
75°	13.4	13.9	13.1	13.4	13.6	14.5	14.9	14.9	14.9	14.1	13.2
72.5°	13.4	14.1	13.5	13.8	14.5	15.4	15.6	15.7	15.5	14.7	13.8
70°	13.4	14.4	13.9	14.3	15.4	16.2	16.4	16.6	16.2	15.3	15.0
67.5°	13.4	14.7	14.3	15.0	16.3	17.1	17.5	17.5	17.0	16.7	16.3
65°	13.4	15.0	14.7	15.7	17.1	18.1	18.6	18.6	18.6	18.1	18.1
62.5°	13.4	15.3	15.2	16.4	18.0	19.1	19.7	20.2	20.4	20.1	21.1
60°	13.4	15.6	15.7	17.2	18.9	20.2	20.8	22.0	22.3	24.2	24.5
57.5°	13.4	15.9	16.5	17.9	20.1	21.2	23.2	24.1	27.4	29.4	31.2
55°	13.4	16.2	17.3	18.6	21.5	22.3	25.8	26.7	34.0	36.4	40.2
52.5°	13.4	16.5	18.2	19.3	22.9	23.7	28.8	33.6	41.4	47.4	50.3
50°	13.4	16.8	19.1	20.0	24.4	27.1	31.9	41.1	50.3	59.1	65.0
47.5°	13.4	17.1	20.1	20.8	26.1	30.6	35.8	48.8	61.8	71.5	81.4
45°	13.4	17.4	21.1	22.2	27.8	34.4	42.6	56.5	73.4	87.4	98.8
42.5°	13.4	17.7	22.2	23.5	29.7	38.3	49.3	66.0	85.4	103.9	125.1
40°	13.4	18.0	23.3	25.6	32.2	42.4	56.6	76.8	98.8	121.0	154.3
37.5°	13.4	18.3	24.5	28.0	35.4	46.6	64.3	87.8	114.3	141.5	185.1
35°	13.4	18.6	25.7	30.5	38.7	52.2	72.1	98.9	130.2	169.3	220.7
32.5°	13.4	18.9	26.9	33.0	42.0	58.5	80.6	110.6	146.5	197.7	261.2
30°	13.4	19.2	28.1	35.6	45.3	64.7	90.4	123.0	163.2	226.6	301.0
27.5°	13.4	19.5	29.4	38.3	49.8	70.8	100.0	136.4	181.9	255.7	339.9
25°	13.4	19.7	30.7	40.9	54.3	76.8	109.4	149.4	203.5	287.0	378.2
22.5°	13.4	20.0	32.0	43.6	58.7	82.9	118.5	161.8	223.9	314.0	418.5
20°	13.4	20.3	33.3	46.3	63.1	89.6	127.3	173.6	243.0	339.5	452.3
17.5°	13.4	20.5	34.6	48.9	67.3	95.9	136.1	184.7	260.9	363.5	484.1
15°	13.4	20.8	35.9	51.5	71.4	102.0	144.6	195.6	277.4	385.8	514.4
12.5°	13.4	21.0	37.1	54.1	75.4	107.8	152.6	206.3	294.0	406.4	542.7
10°	13.4	21.2	38.3	56.7	79.2	113.3	160.1	216.3	310.5	430.7	572.7
7.5°	13.4	21.5	39.5	59.1	82.9	118.5	167.0	225.7	325.8	454.2	608.5
5°	13.4	21.6	40.6	61.5	86.4	123.3	173.4	234.3	339.7	476.0	642.2
2.5°	13.4	21.8	41.7	63.7	89.7	127.8	179.2	242.1	352.0	495.6	673.2
0°	13.4	22.0	42.7	65.9	92.8	131.9	184.4	249.1	362.7	512.9	700.9
-2.5°	13.4	22.8	44.5	68.8	97.1	137.9	192.3	259.2	375.1	527.5	715.2
-5°	13.4	23.7	46.3	71.6	101.2	143.5	199.5	268.4	385.6	539.2	725.8
-7.5°	13.4	24.5	47.9	74.2	105.0	148.7	206.0	276.6	394.2	548.1	732.7
-10°	13.4	25.2	49.5	76.6	108.6	153.4	211.8	283.7	400.7	554.1	736.0
-12.5°	13.4	26.0	51.0	78.9	111.9	157.6	216.8	289.7	405.1	557.2	741.1
-15°	13.4	26.7	52.3	81.1	114.9	161.3	221.0	294.5	407.6	558.1	743.8
-17.5°	13.4	27.4	53.6	83.0	117.6	164.4	224.4	298.6	408.2	555.7	740.7
-20°	13.4	28.0	54.7	84.8	120.0	167.0	227.5	302.1	406.7	550.0	731.5



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 CATALOG NUMBER: EPH-LS-08-0680N-40-70-5S-VHE

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	13.4	28.6	55.7	86.3	122.1	169.0	230.7	304.5	403.1	540.9	716.8
-25°	13.4	29.2	56.6	87.7	123.8	171.4	232.9	305.8	397.3	528.4	704.0
-27.5°	13.4	29.7	57.4	88.9	125.1	173.6	234.3	306.1	389.5	520.0	694.6
-30°	13.4	30.2	58.1	89.8	126.2	175.3	234.7	305.2	386.2	513.2	680.0
-32.5°	13.4	30.6	58.6	90.6	128.4	176.4	234.3	304.4	385.9	502.9	659.7
-35°	13.4	31.0	59.0	91.2	130.1	176.9	234.3	303.3	383.7	489.1	633.7
-37.5°	13.4	31.3	59.3	91.5	131.6	177.5	234.3	301.5	379.6	471.7	610.2
-40°	13.4	31.5	59.4	91.6	132.6	178.8	233.6	298.3	373.6	461.2	587.5
-42.5°	13.4	31.8	59.4	91.9	133.6	179.7	232.2	293.9	367.7	452.5	560.8
-45°	13.4	31.9	59.3	92.4	134.3	180.2	230.2	289.7	361.2	441.4	532.9
-47.5°	13.4	32.0	59.1	92.6	134.6	180.2	227.4	286.3	353.1	427.9	517.3
-50°	13.4	32.1	58.7	92.7	134.4	179.7	226.4	281.8	342.8	415.7	498.8
-52.5°	13.4	32.1	58.2	92.5	133.8	178.9	225.1	276.4	334.1	401.2	476.5
-55°	13.4	32.0	57.5	92.1	132.7	177.3	223.3	270.4	325.5	384.6	454.2
-57.5°	13.4	31.9	56.8	91.4	131.2	175.1	220.9	267.3	315.8	371.5	429.7
-60°	13.4	31.7	55.9	90.5	129.3	172.4	217.8	263.1	306.0	358.6	406.4
-62.5°	13.4	31.5	55.1	89.3	127.5	169.3	213.7	257.9	299.7	343.7	387.8
-65°	13.4	31.2	54.2	87.8	125.3	165.6	209.0	251.9	292.7	332.1	368.0
-67.5°	13.4	30.9	53.2	86.2	122.8	161.7	203.7	244.7	284.8	321.1	352.7
-70°	13.4	30.6	52.0	84.3	119.9	157.3	197.9	236.8	275.2	309.4	338.9
-72.5°	13.4	30.2	50.8	82.4	116.7	152.4	191.0	228.3	264.8	296.1	324.2
-75°	13.4	29.7	49.4	80.4	113.2	147.1	183.3	218.3	253.7	282.3	308.7
-77.5°	13.4	29.2	47.9	78.3	109.9	141.2	175.1	207.5	240.6	267.4	292.6
-80°	13.4	28.7	46.3	75.9	106.5	136.0	166.3	196.1	226.6	250.5	273.8
-82.5°	13.4	28.1	44.6	73.4	102.8	130.9	159.5	185.4	212.2	233.1	253.9
-85°	13.4	27.5	42.8	70.7	98.9	125.6	152.6	176.4	200.7	218.2	235.6
-87.5°	13.4	26.9	41.0	67.8	94.7	120.0	145.4	167.1	189.1	204.8	220.5
-90°	13.4	12.2	11.0	11.0	11.0	11.0	11.0	10.4	9.8	9.8	9.8



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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°	213.7	222.2	230.2	238.1	247.9	257.7	268.1	278.4	289.4	300.4	310.8
87.5°	9.7	9.2	9.2	9.2	8.7	8.1	7.7	7.3	6.7	6.1	6.0
85°	10.3	9.8	9.9	9.8	9.3	8.9	8.4	7.8	7.3	6.8	6.8
82.5°	11.1	11.0	10.6	9.9	9.7	9.7	9.2	8.6	8.1	7.7	7.5
80°	11.9	12.2	11.3	10.3	10.1	9.9	9.3	8.6	8.5	8.5	8.1
77.5°	12.4	12.3	11.6	11.0	10.6	10.2	9.8	9.3	9.1	8.6	8.5
75°	12.8	12.4	12.0	11.3	10.9	10.8	10.7	10.3	10.0	10.0	10.1
72.5°	13.5	13.2	12.5	11.6	11.3	11.5	11.6	11.2	11.5	12.0	12.0
70°	14.6	14.1	13.3	12.4	12.0	12.4	13.0	13.8	14.8	15.0	16.1
67.5°	15.8	15.3	14.1	13.5	13.2	13.9	14.7	17.7	20.5	22.1	23.8
65°	17.5	16.7	15.6	15.4	14.7	17.7	20.2	23.3	29.1	32.0	31.8
62.5°	19.6	19.9	18.4	18.8	21.2	23.9	28.3	35.0	41.8	44.4	42.1
60°	24.9	24.2	24.3	25.9	28.6	31.9	38.7	46.9	54.8	59.1	52.7
57.5°	31.9	31.7	33.5	34.6	38.2	39.3	48.4	58.6	65.4	70.5	62.1
55°	41.8	42.2	45.7	46.8	49.5	49.4	57.2	66.9	73.8	76.1	67.4
52.5°	55.5	56.1	62.6	63.5	62.6	63.5	66.4	76.7	82.5	82.6	75.0
50°	70.5	78.3	82.4	85.0	80.3	83.2	80.5	92.0	100.7	99.8	102.7
47.5°	92.8	103.3	109.1	113.3	109.8	118.9	116.9	134.6	140.6	174.2	179.5
45°	119.2	135.9	143.7	153.1	163.7	174.7	203.0	203.1	282.5	313.8	396.1
42.5°	148.8	173.8	195.4	199.3	251.9	282.6	321.3	400.8	478.3	575.6	612.7
40°	188.0	215.9	259.8	309.5	367.9	434.6	506.7	603.2	705.0	755.3	761.7
37.5°	231.5	283.9	345.2	435.3	525.1	612.6	704.0	798.4	871.7	890.3	958.7
35°	278.2	355.0	469.5	573.0	677.4	798.3	879.6	966.6	1010.6	1087.7	1219.2
32.5°	337.0	428.0	570.4	704.9	821.0	952.6	1030.5	1097.1	1200.4	1334.0	1624.6
30°	398.4	510.5	654.4	809.8	952.7	1063.1	1151.7	1235.3	1397.1	1720.0	2716.1
27.5°	449.5	581.3	732.6	905.8	1068.9	1169.6	1270.0	1415.9	1705.1	2370.6	4259.8
25°	495.3	638.4	809.2	1010.3	1170.0	1280.8	1411.7	1617.6	2071.4	3877.5	6298.5
22.5°	540.1	694.7	896.7	1120.2	1272.6	1390.2	1588.3	1960.3	2911.2	5450.4	8360.0
20°	586.3	766.7	991.7	1222.3	1370.7	1487.1	1742.6	2293.1	4239.6	7143.6	10179.2
17.5°	634.7	839.3	1084.3	1294.8	1433.7	1588.8	1905.4	2566.1	5348.6	8725.0	12123.0
15°	682.0	909.0	1163.3	1357.4	1491.4	1698.4	2124.0	3371.3	6521.3	10490.7	14201.3
12.5°	727.3	972.2	1224.6	1406.5	1548.3	1800.6	2303.6	4258.2	7931.2	12130.3	16008.1
10°	770.0	1028.9	1276.2	1452.9	1610.1	1909.6	2476.5	5126.6	9165.6	13195.8	17123.2
7.5°	814.0	1076.1	1319.8	1497.2	1669.8	2012.4	2666.9	5801.2	10087.2	14015.3	17984.9
5°	853.7	1112.4	1361.7	1546.8	1731.2	2103.6	2820.8	6316.9	10778.7	14692.5	18752.3
2.5°	888.5	1141.0	1397.4	1593.5	1791.2	2179.9	2865.2	6460.3	11103.6	15056.8	19507.1
0°	918.3	1162.5	1426.2	1635.0	1845.1	2241.9	2876.9	6435.2	11184.0	15167.2	20242.1
-2.5°	935.2	1190.3	1477.9	1694.6	1893.4	2292.0	2937.8	6444.7	11252.0	15940.3	21187.2
-5°	947.0	1211.1	1520.2	1747.4	1936.1	2327.2	2971.7	6298.2	11160.1	16347.3	21463.5
-7.5°	953.6	1224.3	1551.4	1791.3	1974.9	2352.7	2990.8	6059.9	11165.2	16365.8	21116.1
-10°	957.1	1236.7	1566.1	1816.1	2008.2	2365.0	2981.6	5650.8	10721.9	15922.8	20543.6
-12.5°	968.6	1248.3	1571.2	1834.3	2034.8	2367.8	2995.2	5250.4	9890.5	15116.3	19725.3
-15°	973.1	1251.3	1568.3	1849.4	2077.8	2396.7	2995.6	4628.5	8811.2	14093.0	18696.3
-17.5°	970.1	1245.6	1559.4	1871.2	2117.5	2399.1	2927.6	3812.7	7578.3	12637.2	17341.4
-20°	959.5	1232.7	1539.9	1882.0	2140.2	2419.0	2907.7	3680.2	6370.1	10817.0	15696.3



REPORT NUMBER: P731613 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-5S-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	944.2	1212.7	1512.0	1858.2	2166.0	2462.5	2880.4	3504.0	4949.4	8737.7	13659.7
-25°	925.9	1190.6	1482.1	1830.9	2178.0	2490.3	2796.0	3268.7	4115.2	6958.6	11139.0
-27.5°	906.8	1159.2	1450.1	1785.5	2170.8	2477.0	2746.3	3138.4	3736.5	4982.0	8512.6
-30°	882.5	1121.5	1403.2	1726.6	2106.5	2436.1	2716.0	2969.7	3378.2	4126.7	6245.9
-32.5°	852.8	1077.2	1350.9	1659.7	2009.5	2387.1	2645.9	2866.4	3177.5	3636.2	4505.8
-35°	819.3	1038.2	1292.8	1575.1	1894.6	2264.1	2540.5	2773.8	2983.9	3337.1	3893.1
-37.5°	785.1	989.9	1217.9	1485.7	1789.8	2091.6	2417.7	2650.2	2862.0	3083.6	3479.6
-40°	745.2	930.0	1143.6	1391.2	1649.1	1922.9	2225.4	2516.7	2725.9	2956.8	3194.3
-42.5°	701.5	873.2	1064.0	1278.7	1510.2	1756.4	2024.8	2316.6	2597.0	2817.8	3036.1
-45°	666.3	811.7	979.3	1170.5	1369.7	1588.8	1833.6	2089.1	2386.9	2672.7	2874.6
-47.5°	623.7	750.6	905.1	1056.6	1237.0	1432.3	1641.5	1883.5	2133.2	2414.7	2690.8
-50°	582.9	699.2	818.1	954.8	1107.8	1279.5	1465.9	1679.1	1909.9	2140.6	2391.0
-52.5°	555.1	644.0	745.3	853.1	986.8	1134.0	1299.2	1480.1	1682.5	1884.1	2101.2
-55°	524.5	601.5	674.2	765.6	870.7	998.4	1141.8	1299.9	1454.3	1638.3	1822.7
-57.5°	494.6	558.5	616.8	687.0	774.8	868.6	998.9	1130.5	1264.6	1407.1	1562.9
-60°	464.4	516.6	567.7	624.4	688.4	771.5	862.1	972.1	1081.6	1195.5	1333.4
-62.5°	434.1	476.7	520.5	569.4	623.8	679.9	754.0	834.1	910.9	1014.5	1124.5
-65°	409.8	439.1	475.3	518.3	562.2	613.5	665.2	715.4	782.7	861.3	941.0
-67.5°	383.6	411.2	437.8	468.0	507.6	550.0	592.6	637.6	683.3	737.3	795.5
-70°	364.6	384.1	407.7	432.7	458.7	489.3	527.3	564.7	603.2	648.2	694.6
-72.5°	346.6	364.5	382.2	399.6	423.1	448.5	473.6	498.7	530.7	569.1	606.1
-75°	328.2	344.6	360.8	376.7	394.3	413.3	433.0	455.6	480.5	507.1	532.8
-77.5°	309.3	323.9	338.6	353.2	369.4	386.2	403.4	420.7	440.3	460.9	480.9
-80°	289.1	302.8	315.9	329.0	343.6	358.5	373.9	389.3	406.6	424.5	441.1
-82.5°	266.9	278.9	291.3	303.4	316.9	330.3	343.9	357.5	372.7	388.2	402.4
-85°	245.6	254.9	265.8	276.6	288.8	301.0	313.2	325.3	339.3	353.2	365.5
-87.5°	229.7	238.6	247.5	256.3	266.8	277.2	287.7	298.2	310.4	322.7	333.4
-90°	9.2	8.5	8.5	8.5	7.9	7.3	7.3	7.3	6.7	6.1	5.5



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	321.1	327.9	334.6	340.1	345.6	352.9	360.2	370.0	379.8	389.6	399.3
87.5°	5.9	5.4	4.9	4.8	4.8	4.8	4.8	4.2	3.7	3.7	3.7
85°	6.9	6.7	6.7	6.3	5.9	5.9	6.0	5.9	5.9	5.4	4.9
82.5°	7.3	7.3	7.3	6.7	6.1	6.1	6.1	6.1	6.1	5.5	4.9
80°	7.7	7.6	7.3	7.1	6.9	6.6	6.2	5.7	5.1	5.0	4.9
77.5°	8.6	8.3	7.8	7.6	7.4	6.8	6.2	5.6	5.0	4.9	4.9
75°	9.9	9.5	9.2	8.7	8.1	7.7	7.7	7.4	6.9	7.0	7.1
72.5°	11.8	11.6	11.6	11.9	11.8	12.2	12.8	13.3	13.8	14.8	15.9
70°	17.6	18.8	19.3	19.7	19.6	19.4	19.4	19.7	20.3	20.9	21.4
67.5°	25.7	27.6	28.7	29.1	27.2	26.1	26.2	26.8	27.8	29.5	31.9
65°	33.6	33.1	32.1	31.4	31.7	31.9	31.7	32.1	33.7	36.2	39.4
62.5°	39.4	34.1	30.9	29.4	30.5	32.4	31.1	30.0	31.4	33.0	34.5
60°	45.1	35.2	28.2	26.0	25.6	26.4	24.3	22.3	22.9	23.4	24.3
57.5°	50.4	37.7	26.2	22.3	18.7	16.9	16.3	15.6	15.2	14.8	14.9
55°	55.2	41.0	25.6	22.7	20.2	19.6	18.0	17.1	16.4	16.1	16.5
52.5°	61.2	52.8	42.1	39.1	44.0	44.4	39.2	46.6	52.3	54.8	55.9
50°	100.2	89.7	107.7	106.0	127.1	141.9	136.7	153.2	177.9	193.4	199.9
47.5°	220.1	220.5	256.0	287.4	313.5	347.6	373.8	399.0	434.2	456.1	465.9
45°	417.5	453.0	490.1	544.2	596.0	659.1	735.0	794.7	1034.2	1272.8	1489.7
42.5°	639.1	678.1	732.4	850.1	989.9	1313.6	1892.5	2215.6	2619.0	3057.9	3226.4
40°	823.5	880.1	1029.3	1360.6	2167.7	2936.1	3780.3	4494.0	5125.8	5489.3	5793.1
37.5°	1051.3	1186.4	1865.7	2803.7	3807.1	4770.2	5639.5	6393.8	7048.5	7579.5	8105.1
35°	1383.2	2280.5	3284.1	4503.7	5570.2	6462.4	7363.1	8227.4	8970.0	9763.1	10941.7
32.5°	2622.3	3794.9	5085.9	6179.0	7221.5	8347.2	9293.6	10676.6	11759.7	13205.7	15415.7
30°	4208.9	5680.7	6851.2	7944.6	9281.4	10796.1	12376.4	14491.8	16702.2	19008.0	21381.0
27.5°	6246.1	7732.6	8966.6	10425.1	12190.1	14206.0	17227.3	20209.0	23379.0	26262.4	28454.0
25°	8701.6	10275.9	12385.3	14501.5	17027.3	20472.3	23866.7	27520.0	30698.2	33527.9	36695.5
22.5°	11002.9	13583.6	16369.1	19563.8	23677.0	27562.4	31759.3	35456.3	39444.9	43478.0	46597.2
20°	12945.8	16307.7	20303.6	24909.1	29468.3	33869.6	38753.6	44646.6	50584.6	55889.5	59739.1
17.5°	15566.6	19824.3	24798.2	30272.5	35180.8	40635.1	47432.5	55089.4	63409.9	70771.9	76609.2
15°	18430.1	23402.0	29026.0	34761.9	40971.7	48280.3	57020.9	66799.5	76977.1	87300.2	96917.5
12.5°	20376.8	26201.8	32343.3	39163.5	46908.8	56708.0	67321.4	78161.5	89792.4	102636.7	113792.9
10°	22041.1	28503.3	35912.7	43845.9	52745.7	63279.6	74249.0	87415.6	101933.6	114582.2	126531.5
7.5°	23687.2	31280.6	39020.5	47280.7	57058.6	68499.8	81482.1	95642.5	110417.2	124165.5	133937.2
5°	25635.0	33513.0	41252.2	49977.8	60217.5	72118.5	85811.9	102072.7	117639.4	130276.7	139090.4
2.5°	27245.6	34852.1	42776.8	51412.7	61936.7	74362.2	89224.2	107294.7	123267.8	135084.1	143059.4
0°	28065.6	35709.7	43735.9	52511.9	63300.3	75978.9	92193.8	111176.9	126273.3	137189.3	145730.2
-2.5°	28165.6	35437.0	43315.3	51971.1	62515.1	75445.1	92068.1	111275.4	127055.6	138401.2	146827.9
-5°	27874.5	35077.9	42941.1	51602.1	62003.4	75471.8	92162.3	110631.6	125879.8	137631.8	145567.8
-7.5°	27172.5	34418.3	42296.1	50829.5	61067.4	74129.6	89696.5	106437.7	122122.0	134819.8	142140.7
-10°	26144.1	33263.5	41019.8	49188.7	58843.7	70920.4	84842.2	100168.9	116018.0	128158.9	136601.5
-12.5°	24843.3	31581.3	38995.8	46718.8	55834.4	67086.0	79495.7	92329.6	105615.4	119456.8	128250.2
-15°	23350.0	29506.9	36447.4	44211.9	53224.0	62601.0	72458.5	82914.4	95059.9	106381.7	116617.4
-17.5°	21933.1	27235.8	33711.6	41276.5	48950.8	57098.4	65546.5	74083.2	83822.6	92710.0	100660.5
-20°	20152.4	24667.5	30634.2	37356.0	44487.1	51546.8	58803.3	65719.4	72789.9	80023.8	86338.1



REPORT NUMBER: P731613 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-5S-VHE

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	18053.5	22444.5	27422.6	33275.4	40121.5	46404.8	52216.6	57621.5	63288.7	68294.2	73490.6
-25°	15767.2	19989.0	24563.7	29899.1	35155.5	40851.7	45675.3	50271.7	54667.6	58598.0	62638.8
-27.5°	12959.4	17416.4	21925.8	26195.9	30533.5	34623.4	39120.8	43361.6	47027.6	50270.1	53472.7
-30°	9796.3	14526.9	18792.6	22455.7	25894.4	29305.6	32748.7	36307.3	39777.7	42730.3	45353.5
-32.5°	7227.9	11174.3	15117.1	18706.8	21716.4	24535.7	27213.4	30005.3	32432.7	34925.1	37350.8
-35°	4782.2	7571.4	10844.6	14493.8	17628.4	20000.2	22428.0	24653.9	26483.8	28416.1	30247.4
-37.5°	4024.6	4766.8	6956.5	9919.2	12822.3	15549.7	17970.9	19906.1	21590.2	23133.6	24715.2
-40°	3550.1	3973.5	4596.5	5672.9	8114.5	10513.8	13008.3	15065.2	16859.4	18338.9	19795.1
-42.5°	3238.7	3529.2	3839.6	4263.6	4681.4	5856.5	7904.1	9679.6	11362.4	13029.3	14529.6
-45°	3077.4	3240.5	3418.0	3648.5	3827.2	4145.7	4501.4	4835.5	6174.7	7622.1	8833.5
-47.5°	2883.9	3057.8	3190.4	3299.0	3385.9	3525.8	3673.7	3866.9	4176.9	4542.5	4821.6
-50°	2636.5	2847.6	2980.0	3088.8	3151.2	3205.3	3258.6	3379.7	3547.7	3747.0	3905.2
-52.5°	2316.6	2525.5	2712.9	2854.5	2923.5	2990.8	3057.7	3141.0	3236.5	3351.6	3434.2
-55°	2015.2	2189.7	2351.9	2483.9	2602.9	2711.3	2815.5	2903.7	3006.8	3116.4	3193.3
-57.5°	1729.1	1870.0	2003.1	2117.4	2220.4	2311.6	2418.2	2534.1	2665.9	2791.5	2879.8
-60°	1461.8	1573.7	1684.4	1777.3	1861.1	1935.9	2034.5	2131.7	2247.2	2350.0	2424.9
-62.5°	1222.6	1320.4	1402.2	1472.3	1535.5	1598.1	1681.0	1762.3	1857.3	1939.4	2001.7
-65°	1015.8	1097.4	1155.0	1207.0	1252.8	1306.1	1370.3	1435.4	1510.1	1574.0	1625.1
-67.5°	856.3	911.6	947.8	979.9	1017.9	1060.4	1108.8	1160.8	1218.9	1267.2	1306.3
-70°	735.8	770.3	792.2	816.2	843.9	873.3	906.1	945.3	989.4	1027.1	1059.6
-72.5°	640.4	666.7	684.9	703.4	720.1	740.2	762.2	791.5	824.2	853.6	881.0
-75°	557.7	576.5	593.4	609.5	624.1	641.0	658.7	683.3	710.1	734.4	757.3
-77.5°	502.1	516.7	528.0	538.8	549.3	563.4	577.9	597.8	618.6	638.7	658.2
-80°	457.6	468.8	478.4	486.3	493.5	505.5	518.0	534.3	550.8	568.2	585.4
-82.5°	416.3	426.1	435.3	442.8	449.7	460.6	471.7	486.2	500.9	515.4	529.6
-85°	377.6	386.6	395.2	402.4	409.4	418.2	426.9	439.5	452.2	465.3	478.3
-87.5°	344.0	352.5	360.9	366.6	372.1	379.9	387.7	398.5	409.2	420.5	431.8
-90°	4.9	4.9	4.9	4.3	3.7	3.7	3.7	3.1	2.4	2.4	2.4



REPORT NUMBER: P731613 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-5S-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	404.2	409.1	411.6	414.0	411.6	409.1	404.2	399.3	389.6	379.8	370.0
87.5°	3.0	2.4	2.4	2.4	2.4	2.4	3.0	3.7	3.7	3.7	4.2
85°	4.3	3.7	4.3	4.9	4.3	3.7	4.3	4.9	5.4	5.9	5.9
82.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	5.5	6.1	6.1
80°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	5.0	5.1	5.7
77.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	5.0	5.6
75°	6.7	6.1	6.1	6.1	6.1	6.1	6.7	7.1	7.0	6.9	7.4
72.5°	16.5	16.8	17.6	18.3	17.6	16.8	16.5	15.9	14.8	13.8	13.3
70°	21.7	21.8	22.0	22.0	22.0	21.8	21.7	21.4	20.9	20.3	19.7
67.5°	33.2	33.8	35.2	36.6	35.2	33.8	33.2	31.9	29.5	27.8	26.8
65°	41.6	43.4	43.9	44.0	43.9	43.4	41.6	39.4	36.2	33.7	32.1
62.5°	36.1	37.7	38.0	37.9	38.0	37.7	36.1	34.5	33.0	31.4	30.0
60°	25.1	25.8	26.3	26.9	26.3	25.8	25.1	24.3	23.4	22.9	22.3
57.5°	15.2	16.0	16.0	15.9	16.0	16.0	15.2	14.9	14.8	15.2	15.6
55°	16.7	17.0	16.6	15.9	16.6	17.0	16.7	16.5	16.1	16.4	17.1
52.5°	54.4	51.7	48.9	46.4	48.9	51.7	54.4	55.9	54.8	52.3	46.6
50°	197.8	194.5	189.7	184.4	189.7	194.5	197.8	199.9	193.4	177.9	153.2
47.5°	474.8	475.8	471.2	462.8	471.2	475.8	474.8	465.9	456.1	434.2	399.0
45°	1678.9	1770.2	1819.4	1853.6	1819.4	1770.2	1678.9	1489.7	1272.8	1034.2	794.7
42.5°	3373.8	3501.9	3599.2	3619.3	3599.2	3501.9	3373.8	3226.4	3057.9	2619.0	2215.6
40°	6153.3	6174.8	5817.7	5278.8	5817.7	6174.8	6153.3	5793.1	5489.3	5125.8	4494.0
37.5°	8731.5	9632.4	10679.1	11213.3	10679.1	9632.4	8731.5	8105.1	7579.5	7048.5	6393.8
35°	12531.8	13887.1	14326.7	14338.1	14326.7	13887.1	12531.8	10941.7	9763.1	8970.0	8227.4
32.5°	17408.7	18510.6	19098.9	18939.2	19098.9	18510.6	17408.7	15415.7	13205.7	11759.7	10676.6
30°	22763.8	23722.6	23730.3	23409.6	23730.3	23722.6	22763.8	21381.0	19008.0	16702.2	14491.8
27.5°	30722.3	32748.2	34174.0	34558.2	34174.0	32748.2	30722.3	28454.0	26262.4	23379.0	20209.0
25°	39549.7	41775.9	43144.7	43643.1	43144.7	41775.9	39549.7	36695.5	33527.9	30698.2	27520.0
22.5°	49500.2	51664.5	52652.3	53168.9	52652.3	51664.5	49500.2	46597.2	43478.0	39444.9	35456.3
20°	63408.7	66486.1	67646.1	68141.9	67646.1	66486.1	63408.7	59739.1	55889.5	50584.6	44646.6
17.5°	82674.5	88752.3	92552.5	94504.1	92552.5	88752.3	82674.5	76609.2	70771.9	63409.9	55089.4
15°	104035.2	110205.4	114263.1	116696.3	114263.1	110205.4	104035.2	96917.5	87300.2	76977.1	66799.5
12.5°	122360.1	127860.5	131779.8	134109.7	131779.8	127860.5	122360.1	113792.9	102636.7	89792.4	78161.5
10°	134116.1	138833.3	142899.4	144885.2	142899.4	138833.3	134116.1	126531.5	114582.2	101933.6	87415.6
7.5°	140760.2	146245.2	148449.3	149807.5	148449.3	146245.2	140760.2	133937.2	124165.5	110417.2	95642.5
5°	145909.6	150244.1	152278.8	153271.7	152278.8	150244.1	145909.6	139090.4	130276.7	117639.4	102072.7
2.5°	149347.1	153110.0	154548.9	155350.0	154548.9	153110.0	149347.1	143059.4	135084.1	123267.8	107294.7
0°	150996.8	153771.1	155384.2	154597.8	155384.2	153771.1	150996.8	145730.2	137189.3	126273.3	111176.9
-2.5°	151008.3	153645.4	154844.5	154260.8	154844.5	153645.4	151008.3	146827.9	138401.2	127055.6	111275.4
-5°	149716.4	151684.4	153145.0	152677.0	153145.0	151684.4	149716.4	145567.8	137631.8	125879.8	110631.6
-7.5°	146232.3	148848.0	149917.8	149969.8	149917.8	148848.0	146232.3	142140.7	134819.8	122122.0	106437.7
-10°	141439.5	144339.5	145478.4	145594.7	145478.4	144339.5	141439.5	136601.5	128158.9	116018.0	100168.9
-12.5°	134316.1	137718.0	139357.1	139649.2	139357.1	137718.0	134316.1	128250.2	119456.8	105615.4	92329.6
-15°	123257.9	127843.3	130431.4	131339.6	130431.4	127843.3	123257.9	116617.4	106381.7	95059.9	82914.4
-17.5°	108224.9	113703.4	116930.8	118068.8	116930.8	113703.4	108224.9	100660.5	92710.0	83822.6	74083.2
-20°	92544.0	96605.6	99093.5	100118.7	99093.5	96605.6	92544.0	86338.1	80023.8	72789.9	65719.4



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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°	78280.7	81555.4	83403.9	84225.0	83403.9	81555.4	78280.7	73490.6	68294.2	63288.7	57621.5
-25°	65910.0	68668.1	69616.1	70150.6	69616.1	68668.1	65910.0	62638.8	58598.0	54667.6	50271.7
-27.5°	55802.4	57990.3	58500.9	58972.7	58500.9	57990.3	55802.4	53472.7	50270.1	47027.6	43361.6
-30°	47285.4	49189.3	49449.7	49972.0	49449.7	49189.3	47285.4	45353.5	42730.3	39777.7	36307.3
-32.5°	39320.4	41015.7	41665.2	41765.1	41665.2	41015.7	39320.4	37350.8	34925.1	32432.7	30005.3
-35°	31693.2	32810.6	33252.7	33279.7	33252.7	32810.6	31693.2	30247.4	28416.1	26483.8	24653.9
-37.5°	25696.4	26408.8	26920.8	26779.8	26920.8	26408.8	25696.4	24715.2	23133.6	21590.2	19906.1
-40°	20611.0	21327.7	21795.7	21681.7	21795.7	21327.7	20611.0	19795.1	18338.9	16859.4	15065.2
-42.5°	15357.2	16145.3	16587.6	16465.2	16587.6	16145.3	15357.2	14529.6	13029.3	11362.4	9679.6
-45°	9524.1	10218.8	10544.8	10346.3	10544.8	10218.8	9524.1	8833.5	7622.1	6174.7	4835.5
-47.5°	4968.7	5126.8	5177.4	5106.6	5177.4	5126.8	4968.7	4821.6	4542.5	4176.9	3866.9
-50°	4028.6	4127.8	4170.4	4157.8	4170.4	4127.8	4028.6	3905.2	3747.0	3547.7	3379.7
-52.5°	3499.0	3544.8	3560.0	3550.9	3560.0	3544.8	3499.0	3434.2	3351.6	3236.5	3141.0
-55°	3258.3	3303.8	3319.5	3314.0	3319.5	3303.8	3258.3	3193.3	3116.4	3006.8	2903.7
-57.5°	2953.1	3008.9	3043.5	3061.3	3043.5	3008.9	2953.1	2879.8	2791.5	2665.9	2534.1
-60°	2485.3	2530.0	2542.8	2536.2	2542.8	2530.0	2485.3	2424.9	2350.0	2247.2	2131.7
-62.5°	2050.6	2087.3	2114.7	2133.3	2114.7	2087.3	2050.6	2001.7	1939.4	1857.3	1762.3
-65°	1662.5	1689.0	1694.6	1690.0	1694.6	1689.0	1662.5	1625.1	1574.0	1510.1	1435.4
-67.5°	1333.7	1353.4	1356.1	1351.8	1356.1	1353.4	1333.7	1306.3	1267.2	1218.9	1160.8
-70°	1081.4	1097.9	1100.2	1097.8	1100.2	1097.9	1081.4	1059.6	1027.1	989.4	945.3
-72.5°	896.9	909.0	918.2	925.6	918.2	909.0	896.9	881.0	853.6	824.2	791.5
-75°	768.8	777.5	779.7	780.3	779.7	777.5	768.8	757.3	734.4	710.1	683.3
-77.5°	668.4	677.1	683.3	688.7	683.3	677.1	668.4	658.2	638.7	618.6	597.8
-80°	593.1	599.8	604.8	609.3	604.8	599.8	593.1	585.4	568.2	550.8	534.3
-82.5°	537.0	543.9	548.1	551.9	548.1	543.9	537.0	529.6	515.4	500.9	486.2
-85°	483.9	489.3	493.2	497.0	493.2	489.3	483.9	478.3	465.3	452.2	439.5
-87.5°	436.9	441.9	444.4	446.9	444.4	441.9	436.9	431.8	420.5	409.2	398.5
-90°	1.8	1.2	1.2	1.2	1.2	1.2	1.8	2.4	2.4	2.4	3.1



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	360.2	352.9	345.6	340.1	334.6	327.9	321.1	310.8	300.4	289.4	278.4
87.5°	4.8	4.8	4.8	4.8	4.9	5.4	5.9	6.0	6.1	6.7	7.3
85°	6.0	5.9	5.9	6.3	6.7	6.7	6.9	6.8	6.8	7.3	7.8
82.5°	6.1	6.1	6.1	6.7	7.3	7.3	7.3	7.5	7.7	8.1	8.6
80°	6.2	6.6	6.9	7.1	7.3	7.6	7.7	8.1	8.5	8.5	8.6
77.5°	6.2	6.8	7.4	7.6	7.8	8.3	8.6	8.5	8.6	9.1	9.3
75°	7.7	7.7	8.1	8.7	9.2	9.5	9.9	10.1	10.0	10.0	10.3
72.5°	12.8	12.2	11.8	11.9	11.6	11.6	11.8	12.0	12.0	11.5	11.2
70°	19.4	19.4	19.6	19.7	19.3	18.8	17.6	16.1	15.0	14.8	13.8
67.5°	26.2	26.1	27.2	29.1	28.7	27.6	25.7	23.8	22.1	20.5	17.7
65°	31.7	31.9	31.7	31.4	32.1	33.1	33.6	31.8	32.0	29.1	23.3
62.5°	31.1	32.4	30.5	29.4	30.9	34.1	39.4	42.1	44.4	41.8	35.0
60°	24.3	26.4	25.6	26.0	28.2	35.2	45.1	52.7	59.1	54.8	46.9
57.5°	16.3	16.9	18.7	22.3	26.2	37.7	50.4	62.1	70.5	65.4	58.6
55°	18.0	19.6	20.2	22.7	25.6	41.0	55.2	67.4	76.1	73.8	66.9
52.5°	39.2	44.4	44.0	39.1	42.1	52.8	61.2	75.0	82.6	82.5	76.7
50°	136.7	141.9	127.1	106.0	107.7	89.7	100.2	102.7	99.8	100.7	92.0
47.5°	373.8	347.6	313.5	287.4	256.0	220.5	220.1	179.5	174.2	140.6	134.6
45°	735.0	659.1	596.0	544.2	490.1	453.0	417.5	396.1	313.8	282.5	203.1
42.5°	1892.5	1313.6	989.9	850.1	732.4	678.1	639.1	612.7	575.6	478.3	400.8
40°	3780.3	2936.1	2167.7	1360.6	1029.3	880.1	823.5	761.7	755.3	705.0	603.2
37.5°	5639.5	4770.2	3807.1	2803.7	1865.7	1186.4	1051.3	958.7	890.3	871.7	798.4
35°	7363.1	6462.4	5570.2	4503.7	3284.1	2280.5	1383.2	1219.2	1087.7	1010.6	966.6
32.5°	9293.6	8347.2	7221.5	6179.0	5085.9	3794.9	2622.3	1624.6	1334.0	1200.4	1097.1
30°	12376.4	10796.1	9281.4	7944.6	6851.2	5680.7	4208.9	2716.1	1720.0	1397.1	1235.3
27.5°	17227.3	14206.0	12190.1	10425.1	8966.6	7732.6	6246.1	4259.8	2370.6	1705.1	1415.9
25°	23866.7	20472.3	17027.3	14501.5	12385.3	10275.9	8701.6	6298.5	3877.5	2071.4	1617.6
22.5°	31759.3	27562.4	23677.0	19563.8	16369.1	13583.6	11002.9	8360.0	5450.4	2911.2	1960.3
20°	38753.6	33869.6	29468.3	24909.1	20303.6	16307.7	12945.8	10179.2	7143.6	4239.6	2293.1
17.5°	47432.5	40635.1	35180.8	30272.5	24798.2	19824.3	15566.6	12123.0	8725.0	5348.6	2566.1
15°	57020.9	48280.3	40971.7	34761.9	29026.0	23402.0	18430.1	14201.3	10490.7	6521.3	3371.3
12.5°	67321.4	56708.0	46908.8	39163.5	32343.3	26201.8	20376.8	16008.1	12130.3	7931.2	4258.2
10°	74249.0	63279.6	52745.7	43845.9	35912.7	28503.3	22041.1	17123.2	13195.8	9165.6	5126.6
7.5°	81482.1	68499.8	57058.6	47280.7	39020.5	31280.6	23687.2	17984.9	14015.3	10087.2	5801.2
5°	85811.9	72118.5	60217.5	49977.8	41252.2	33513.0	25635.0	18752.3	14692.5	10778.7	6316.9
2.5°	89224.2	74362.2	61936.7	51412.7	42776.8	34852.1	27245.6	19507.1	15056.8	11103.6	6460.3
0°	92193.8	75978.9	63300.3	52511.9	43735.9	35709.7	28065.6	20242.1	15167.2	11184.0	6435.2
-2.5°	92068.1	75445.1	62515.1	51971.1	43315.3	35437.0	28165.6	21187.2	15940.3	11252.0	6444.7
-5°	92162.3	75471.8	62003.4	51602.1	42941.1	35077.9	27874.5	21463.5	16347.3	11160.1	6298.2
-7.5°	89696.5	74129.6	61067.4	50829.5	42296.1	34418.3	27172.5	21116.1	16365.8	11165.2	6059.9
-10°	84842.2	70920.4	58843.7	49188.7	41019.8	33263.5	26144.1	20543.6	15922.8	10721.9	5650.8
-12.5°	79495.7	67086.0	55834.4	46718.8	38995.8	31581.3	24843.3	19725.3	15116.3	9890.5	5250.4
-15°	72458.5	62601.0	53224.0	44211.9	36447.4	29506.9	23350.0	18696.3	14093.0	8811.2	4628.5
-17.5°	65546.5	57098.4	48950.8	41276.5	33711.6	27235.8	21933.1	17341.4	12637.2	7578.3	3812.7
-20°	58803.3	51546.8	44487.1	37356.0	30634.2	24667.5	20152.4	15696.3	10817.0	6370.1	3680.2



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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°	52216.6	46404.8	40121.5	33275.4	27422.6	22444.5	18053.5	13659.7	8737.7	4949.4	3504.0
-25°	45675.3	40851.7	35155.5	29899.1	24563.7	19989.0	15767.2	11139.0	6958.6	4115.2	3268.7
-27.5°	39120.8	34623.4	30533.5	26195.9	21925.8	17416.4	12959.4	8512.6	4982.0	3736.5	3138.4
-30°	32748.7	29305.6	25894.4	22455.7	18792.6	14526.9	9796.3	6245.9	4126.7	3378.2	2969.7
-32.5°	27213.4	24535.7	21716.4	18706.8	15117.1	11174.3	7227.9	4505.8	3636.2	3177.5	2866.4
-35°	22428.0	20000.2	17628.4	14493.8	10844.6	7571.4	4782.2	3893.1	3337.1	2983.9	2773.8
-37.5°	17970.9	15549.7	12822.3	9919.2	6956.5	4766.8	4024.6	3479.6	3083.6	2862.0	2650.2
-40°	13008.3	10513.8	8114.5	5672.9	4596.5	3973.5	3550.1	3194.3	2956.8	2725.9	2516.7
-42.5°	7904.1	5856.5	4681.4	4263.6	3839.6	3529.2	3238.7	3036.1	2817.8	2597.0	2316.6
-45°	4501.4	4145.7	3827.2	3648.5	3418.0	3240.5	3077.4	2874.6	2672.7	2386.9	2089.1
-47.5°	3673.7	3525.8	3385.9	3299.0	3190.4	3057.8	2883.9	2690.8	2414.7	2133.2	1883.5
-50°	3258.6	3205.3	3151.2	3088.8	2980.0	2847.6	2636.5	2391.0	2140.6	1909.9	1679.1
-52.5°	3057.7	2990.8	2923.5	2854.5	2712.9	2525.5	2316.6	2101.2	1884.1	1682.5	1480.1
-55°	2815.5	2711.3	2602.9	2483.9	2351.9	2189.7	2015.2	1822.7	1638.3	1454.3	1299.9
-57.5°	2418.2	2311.6	2220.4	2117.4	2003.1	1870.0	1729.1	1562.9	1407.1	1264.6	1130.5
-60°	2034.5	1935.9	1861.1	1777.3	1684.4	1573.7	1461.8	1333.4	1195.5	1081.6	972.1
-62.5°	1681.0	1598.1	1535.5	1472.3	1402.2	1320.4	1222.6	1124.5	1014.5	910.9	834.1
-65°	1370.3	1306.1	1252.8	1207.0	1155.0	1097.4	1015.8	941.0	861.3	782.7	715.4
-67.5°	1108.8	1060.4	1017.9	979.9	947.8	911.6	856.3	795.5	737.3	683.3	637.6
-70°	906.1	873.3	843.9	816.2	792.2	770.3	735.8	694.6	648.2	603.2	564.7
-72.5°	762.2	740.2	720.1	703.4	684.9	666.7	640.4	606.1	569.1	530.7	498.7
-75°	658.7	641.0	624.1	609.5	593.4	576.5	557.7	532.8	507.1	480.5	455.6
-77.5°	577.9	563.4	549.3	538.8	528.0	516.7	502.1	480.9	460.9	440.3	420.7
-80°	518.0	505.5	493.5	486.3	478.4	468.8	457.6	441.1	424.5	406.6	389.3
-82.5°	471.7	460.6	449.7	442.8	435.3	426.1	416.3	402.4	388.2	372.7	357.5
-85°	426.9	418.2	409.4	402.4	395.2	386.6	377.6	365.5	353.2	339.3	325.3
-87.5°	387.7	379.9	372.1	366.6	360.9	352.5	344.0	333.4	322.7	310.4	298.2
-90°	3.7	3.7	3.7	4.3	4.9	4.9	4.9	5.5	6.1	6.7	7.3



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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°	268.1	257.7	247.9	238.1	230.2	222.2	213.7	205.1	191.1	177.1	157.6
87.5°	7.7	8.1	8.7	9.2	9.2	9.2	9.7	10.3	10.5	10.6	11.1
85°	8.4	8.9	9.3	9.8	9.9	9.8	10.3	10.8	11.2	11.5	11.9
82.5°	9.2	9.7	9.7	9.9	10.6	11.0	11.1	11.4	11.9	12.3	12.6
80°	9.3	9.9	10.1	10.3	11.3	12.2	11.9	12.0	12.7	13.2	13.4
77.5°	9.8	10.2	10.6	11.0	11.6	12.3	12.4	12.6	13.5	14.1	14.1
75°	10.7	10.8	10.9	11.3	12.0	12.4	12.8	13.2	14.1	14.9	14.9
72.5°	11.6	11.5	11.3	11.6	12.5	13.2	13.5	13.8	14.7	15.5	15.7
70°	13.0	12.4	12.0	12.4	13.3	14.1	14.6	15.0	15.3	16.2	16.6
67.5°	14.7	13.9	13.2	13.5	14.1	15.3	15.8	16.3	16.7	17.0	17.5
65°	20.2	17.7	14.7	15.4	15.6	16.7	17.5	18.1	18.1	18.6	18.6
62.5°	28.3	23.9	21.2	18.8	18.4	19.9	19.6	21.1	20.1	20.4	20.2
60°	38.7	31.9	28.6	25.9	24.3	24.2	24.9	24.5	24.2	22.3	22.0
57.5°	48.4	39.3	38.2	34.6	33.5	31.7	31.9	31.2	29.4	27.4	24.1
55°	57.2	49.4	49.5	46.8	45.7	42.2	41.8	40.2	36.4	34.0	26.7
52.5°	66.4	63.5	62.6	63.5	62.6	56.1	55.5	50.3	47.4	41.4	33.6
50°	80.5	83.2	80.3	85.0	82.4	78.3	70.5	65.0	59.1	50.3	41.1
47.5°	116.9	118.9	109.8	113.3	109.1	103.3	92.8	81.4	71.5	61.8	48.8
45°	203.0	174.7	163.7	153.1	143.7	135.9	119.2	98.8	87.4	73.4	56.5
42.5°	321.3	282.6	251.9	199.3	195.4	173.8	148.8	125.1	103.9	85.4	66.0
40°	506.7	434.6	367.9	309.5	259.8	215.9	188.0	154.3	121.0	98.8	76.8
37.5°	704.0	612.6	525.1	435.3	345.2	283.9	231.5	185.1	141.5	114.3	87.8
35°	879.6	798.3	677.4	573.0	469.5	355.0	278.2	220.7	169.3	130.2	98.9
32.5°	1030.5	952.6	821.0	704.9	570.4	428.0	337.0	261.2	197.7	146.5	110.6
30°	1151.7	1063.1	952.7	809.8	654.4	510.5	398.4	301.0	226.6	163.2	123.0
27.5°	1270.0	1169.6	1068.9	905.8	732.6	581.3	449.5	339.9	255.7	181.9	136.4
25°	1411.7	1280.8	1170.0	1010.3	809.2	638.4	495.3	378.2	287.0	203.5	149.4
22.5°	1588.3	1390.2	1272.6	1120.2	896.7	694.7	540.1	418.5	314.0	223.9	161.8
20°	1742.6	1487.1	1370.7	1222.3	991.7	766.7	586.3	452.3	339.5	243.0	173.6
17.5°	1905.4	1588.8	1433.7	1294.8	1084.3	839.3	634.7	484.1	363.5	260.9	184.7
15°	2124.0	1698.4	1491.4	1357.4	1163.3	909.0	682.0	514.4	385.8	277.4	195.6
12.5°	2303.6	1800.6	1548.3	1406.5	1224.6	972.2	727.3	542.7	406.4	294.0	206.3
10°	2476.5	1909.6	1610.1	1452.9	1276.2	1028.9	770.0	572.7	430.7	310.5	216.3
7.5°	2666.9	2012.4	1669.8	1497.2	1319.8	1076.1	814.0	608.5	454.2	325.8	225.7
5°	2820.8	2103.6	1731.2	1546.8	1361.7	1112.4	853.7	642.2	476.0	339.7	234.3
2.5°	2865.2	2179.9	1791.2	1593.5	1397.4	1141.0	888.5	673.2	495.6	352.0	242.1
0°	2876.9	2241.9	1845.1	1635.0	1426.2	1162.5	918.3	700.9	512.9	362.7	249.1
-2.5°	2937.8	2292.0	1893.4	1694.6	1477.9	1190.3	935.2	715.2	527.5	375.1	259.2
-5°	2971.7	2327.2	1936.1	1747.4	1520.2	1211.1	947.0	725.8	539.2	385.6	268.4
-7.5°	2990.8	2352.7	1974.9	1791.3	1551.4	1224.3	953.6	732.7	548.1	394.2	276.6
-10°	2981.6	2365.0	2008.2	1816.1	1566.1	1236.7	957.1	736.0	554.1	400.7	283.7
-12.5°	2995.2	2367.8	2034.8	1834.3	1571.2	1248.3	968.6	741.1	557.2	405.1	289.7
-15°	2995.6	2396.7	2077.8	1849.4	1568.3	1251.3	973.1	743.8	558.1	407.6	294.5
-17.5°	2927.6	2399.1	2117.5	1871.2	1559.4	1245.6	970.1	740.7	555.7	408.2	298.6
-20°	2907.7	2419.0	2140.2	1882.0	1539.9	1232.7	959.5	731.5	550.0	406.7	302.1



REPORT NUMBER: P731613 (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°	2880.4	2462.5	2166.0	1858.2	1512.0	1212.7	944.2	716.8	540.9	403.1	304.5
-25°	2796.0	2490.3	2178.0	1830.9	1482.1	1190.6	925.9	704.0	528.4	397.3	305.8
-27.5°	2746.3	2477.0	2170.8	1785.5	1450.1	1159.2	906.8	694.6	520.0	389.5	306.1
-30°	2716.0	2436.1	2106.5	1726.6	1403.2	1121.5	882.5	680.0	513.2	386.2	305.2
-32.5°	2645.9	2387.1	2009.5	1659.7	1350.9	1077.2	852.8	659.7	502.9	385.9	304.4
-35°	2540.5	2264.1	1894.6	1575.1	1292.8	1038.2	819.3	633.7	489.1	383.7	303.3
-37.5°	2417.7	2091.6	1789.8	1485.7	1217.9	989.9	785.1	610.2	471.7	379.6	301.5
-40°	2225.4	1922.9	1649.1	1391.2	1143.6	930.0	745.2	587.5	461.2	373.6	298.3
-42.5°	2024.8	1756.4	1510.2	1278.7	1064.0	873.2	701.5	560.8	452.5	367.7	293.9
-45°	1833.6	1588.8	1369.7	1170.5	979.3	811.7	666.3	532.9	441.4	361.2	289.7
-47.5°	1641.5	1432.3	1237.0	1056.6	905.1	750.6	623.7	517.3	427.9	353.1	286.3
-50°	1465.9	1279.5	1107.8	954.8	818.1	699.2	582.9	498.8	415.7	342.8	281.8
-52.5°	1299.2	1134.0	986.8	853.1	745.3	644.0	555.1	476.5	401.2	334.1	276.4
-55°	1141.8	998.4	870.7	765.6	674.2	601.5	524.5	454.2	384.6	325.5	270.4
-57.5°	998.9	868.6	774.8	687.0	616.8	558.5	494.6	429.7	371.5	315.8	267.3
-60°	862.1	771.5	688.4	624.4	567.7	516.6	464.4	406.4	358.6	306.0	263.1
-62.5°	754.0	679.9	623.8	569.4	520.5	476.7	434.1	387.8	343.7	299.7	257.9
-65°	665.2	613.5	562.2	518.3	475.3	439.1	409.8	368.0	332.1	292.7	251.9
-67.5°	592.6	550.0	507.6	468.0	437.8	411.2	383.6	352.7	321.1	284.8	244.7
-70°	527.3	489.3	458.7	432.7	407.7	384.1	364.6	338.9	309.4	275.2	236.8
-72.5°	473.6	448.5	423.1	399.6	382.2	364.5	346.6	324.2	296.1	264.8	228.3
-75°	433.0	413.3	394.3	376.7	360.8	344.6	328.2	308.7	282.3	253.7	218.3
-77.5°	403.4	386.2	369.4	353.2	338.6	323.9	309.3	292.6	267.4	240.6	207.5
-80°	373.9	358.5	343.6	329.0	315.9	302.8	289.1	273.8	250.5	226.6	196.1
-82.5°	343.9	330.3	316.9	303.4	291.3	278.9	266.9	253.9	233.1	212.2	185.4
-85°	313.2	301.0	288.8	276.6	265.8	254.9	245.6	235.6	218.2	200.7	176.4
-87.5°	287.7	277.2	266.8	256.3	247.5	238.6	229.7	220.5	204.8	189.1	167.1
-90°	7.3	7.3	7.9	8.5	8.5	8.5	9.2	9.8	9.8	9.8	10.4



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	138.0	114.2	90.4	64.7	39.1	26.2	13.4
87.5°	11.6	11.5	11.4	11.4	11.3	12.5	13.4
85°	12.2	12.0	11.8	11.8	11.7	12.7	13.4
82.5°	12.9	12.6	12.3	12.2	12.0	13.0	13.4
80°	13.5	13.1	12.7	12.6	12.3	13.3	13.4
77.5°	14.2	13.7	13.1	13.0	12.7	13.6	13.4
75°	14.9	14.5	13.6	13.4	13.1	13.9	13.4
72.5°	15.6	15.4	14.5	13.8	13.5	14.1	13.4
70°	16.4	16.2	15.4	14.3	13.9	14.4	13.4
67.5°	17.5	17.1	16.3	15.0	14.3	14.7	13.4
65°	18.6	18.1	17.1	15.7	14.7	15.0	13.4
62.5°	19.7	19.1	18.0	16.4	15.2	15.3	13.4
60°	20.8	20.2	18.9	17.2	15.7	15.6	13.4
57.5°	23.2	21.2	20.1	17.9	16.5	15.9	13.4
55°	25.8	22.3	21.5	18.6	17.3	16.2	13.4
52.5°	28.8	23.7	22.9	19.3	18.2	16.5	13.4
50°	31.9	27.1	24.4	20.0	19.1	16.8	13.4
47.5°	35.8	30.6	26.1	20.8	20.1	17.1	13.4
45°	42.6	34.4	27.8	22.2	21.1	17.4	13.4
42.5°	49.3	38.3	29.7	23.5	22.2	17.7	13.4
40°	56.6	42.4	32.2	25.6	23.3	18.0	13.4
37.5°	64.3	46.6	35.4	28.0	24.5	18.3	13.4
35°	72.1	52.2	38.7	30.5	25.7	18.6	13.4
32.5°	80.6	58.5	42.0	33.0	26.9	18.9	13.4
30°	90.4	64.7	45.3	35.6	28.1	19.2	13.4
27.5°	100.0	70.8	49.8	38.3	29.4	19.5	13.4
25°	109.4	76.8	54.3	40.9	30.7	19.7	13.4
22.5°	118.5	82.9	58.7	43.6	32.0	20.0	13.4
20°	127.3	89.6	63.1	46.3	33.3	20.3	13.4
17.5°	136.1	95.9	67.3	48.9	34.6	20.5	13.4
15°	144.6	102.0	71.4	51.5	35.9	20.8	13.4
12.5°	152.6	107.8	75.4	54.1	37.1	21.0	13.4
10°	160.1	113.3	79.2	56.7	38.3	21.2	13.4
7.5°	167.0	118.5	82.9	59.1	39.5	21.5	13.4
5°	173.4	123.3	86.4	61.5	40.6	21.6	13.4
2.5°	179.2	127.8	89.7	63.7	41.7	21.8	13.4
0°	184.4	131.9	92.8	65.9	42.7	22.0	13.4
-2.5°	192.3	137.9	97.1	68.8	44.5	22.8	13.4
-5°	199.5	143.5	101.2	71.6	46.3	23.7	13.4
-7.5°	206.0	148.7	105.0	74.2	47.9	24.5	13.4
-10°	211.8	153.4	108.6	76.6	49.5	25.2	13.4
-12.5°	216.8	157.6	111.9	78.9	51.0	26.0	13.4
-15°	221.0	161.3	114.9	81.1	52.3	26.7	13.4
-17.5°	224.4	164.4	117.6	83.0	53.6	27.4	13.4
-20°	227.5	167.0	120.0	84.8	54.7	28.0	13.4



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 CATALOG NUMBER: EPH-LS-08-0680N-40-70-5S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	230.7	169.0	122.1	86.3	55.7	28.6	13.4
-25°	232.9	171.4	123.8	87.7	56.6	29.2	13.4
-27.5°	234.3	173.6	125.1	88.9	57.4	29.7	13.4
-30°	234.7	175.3	126.2	89.8	58.1	30.2	13.4
-32.5°	234.3	176.4	128.4	90.6	58.6	30.6	13.4
-35°	234.3	176.9	130.1	91.2	59.0	31.0	13.4
-37.5°	234.3	177.5	131.6	91.5	59.3	31.3	13.4
-40°	233.6	178.8	132.6	91.6	59.4	31.5	13.4
-42.5°	232.2	179.7	133.6	91.9	59.4	31.8	13.4
-45°	230.2	180.2	134.3	92.4	59.3	31.9	13.4
-47.5°	227.4	180.2	134.6	92.6	59.1	32.0	13.4
-50°	226.4	179.7	134.4	92.7	58.7	32.1	13.4
-52.5°	225.1	178.9	133.8	92.5	58.2	32.1	13.4
-55°	223.3	177.3	132.7	92.1	57.5	32.0	13.4
-57.5°	220.9	175.1	131.2	91.4	56.8	31.9	13.4
-60°	217.8	172.4	129.3	90.5	55.9	31.7	13.4
-62.5°	213.7	169.3	127.5	89.3	55.1	31.5	13.4
-65°	209.0	165.6	125.3	87.8	54.2	31.2	13.4
-67.5°	203.7	161.7	122.8	86.2	53.2	30.9	13.4
-70°	197.9	157.3	119.9	84.3	52.0	30.6	13.4
-72.5°	191.0	152.4	116.7	82.4	50.8	30.2	13.4
-75°	183.3	147.1	113.2	80.4	49.4	29.7	13.4
-77.5°	175.1	141.2	109.9	78.3	47.9	29.2	13.4
-80°	166.3	136.0	106.5	75.9	46.3	28.7	13.4
-82.5°	159.5	130.9	102.8	73.4	44.6	28.1	13.4
-85°	152.6	125.6	98.9	70.7	42.8	27.5	13.4
-87.5°	145.4	120.0	94.7	67.8	41.0	26.9	13.4
-90°	11.0	11.0	11.0	11.0	11.0	12.2	13.4

(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

