

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: P731477 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-80-1S-VHE**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731477 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-133-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0530N-40-80-1S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 1S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

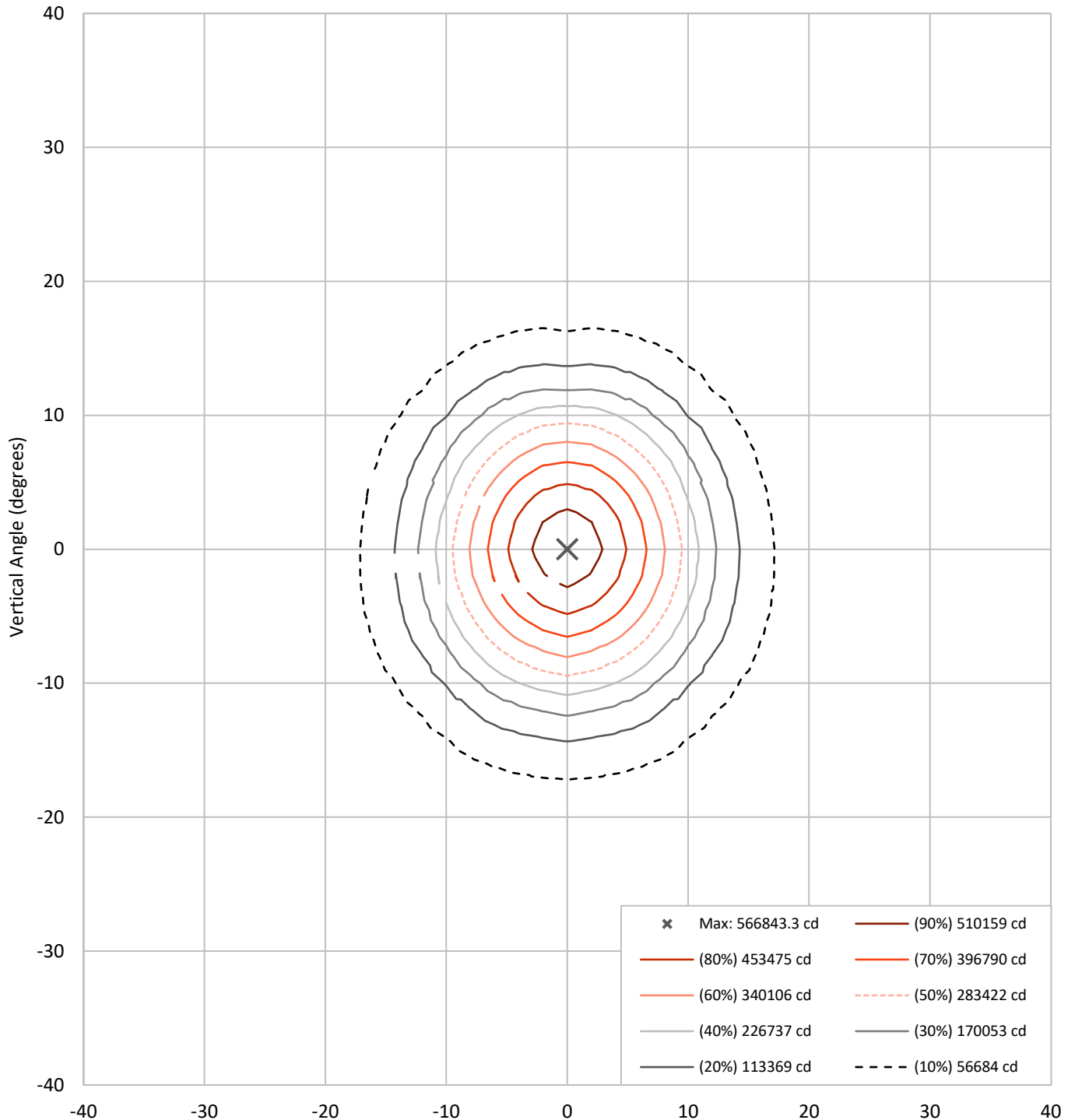
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	74715.4 lumens	Max Intensity:	566843.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	129.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	19°H x 18.9°V	Field Angle (10%):	34°H x 33.3°V
Beam Lumens:	33120.1 lumens	Field Lumens:	60323.1 lumens
Beam Efficiency:	44.3%	Field Efficiency:	80.7%

Input Watts (W): 577.1
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





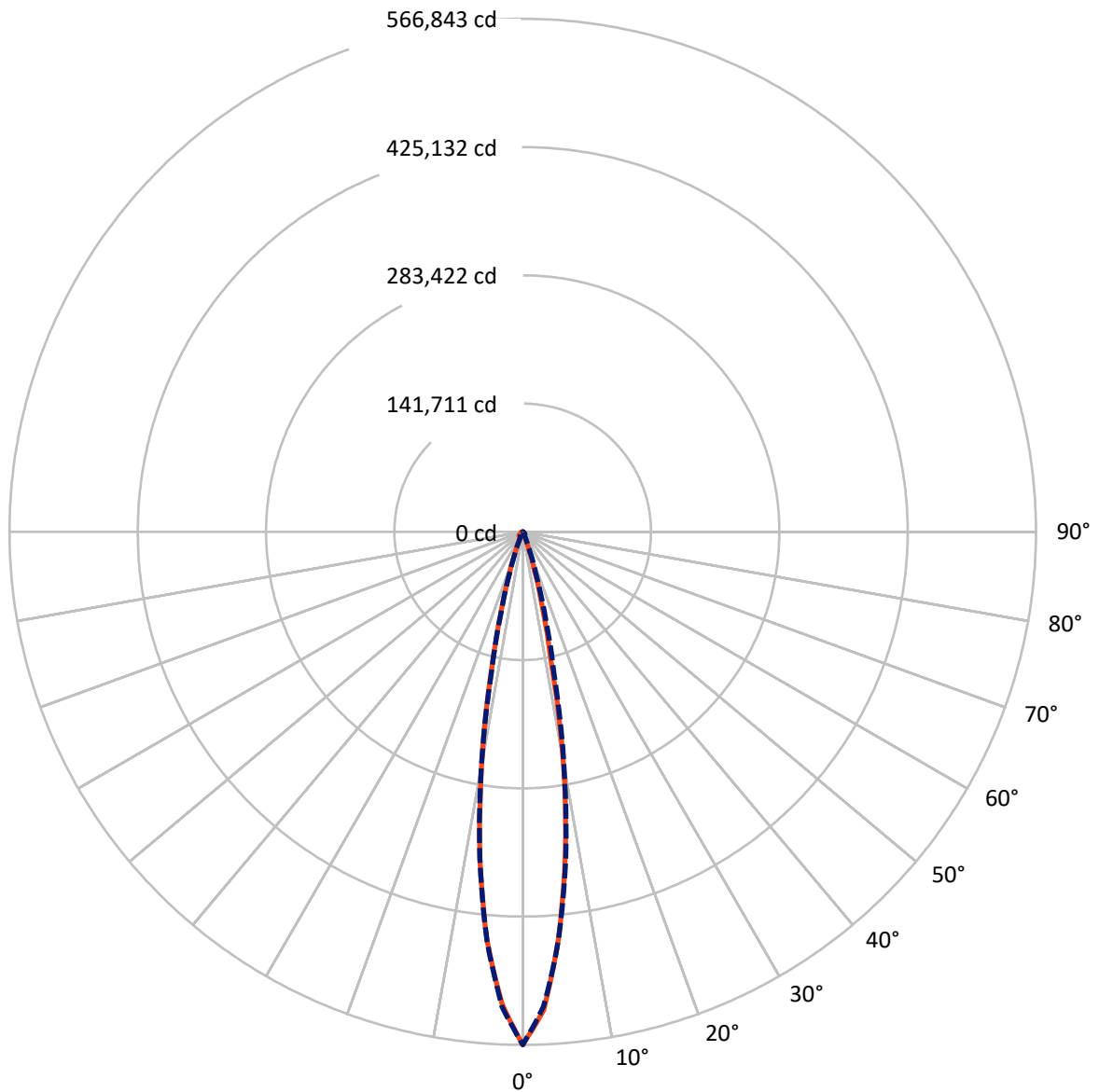
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Lumen Table

90	0.2	1.0	1.9	2.6	2.9	2.6	1.9	1.0	0.2										
80	0.2	1.0	1.9	2.6	2.9	2.6	1.9	1.0	0.2										
70	0.3	0.2	0.3	0.5	0.6	0.4	0.3	0.2	0.2	0.3	0.4	0.6	0.5	0.3	0.2	0.3			
60		0.5	0.9	1.0	0.8	0.8	1.0	1.1	1.1	1.0	0.8	0.8	1.0	0.9	0.5				
50	1.1	1.3	2.8	5.4	8.4	14.6	22.1	24.5	24.5	22.1	14.6	8.4	5.4	2.8	1.3	1.1			
40		2.9	8.0	14.6	30.6	50.0	56.0	58.7	58.7	56.0	50.0	30.6	14.6	8.0	2.9				
30	2.4	4.8	13.1	27.0	64.3	68.2	82.8	137.0	137.0	82.8	68.2	64.3	27.0	13.1	4.8	2.4			
20		6.5	16.9	48.1	85.2	100.5	626.1	2495.0	2495.0	626.1	100.5	85.2	48.1	16.9	6.5				
10	3.6	8.0	19.9	63.7	95.0	187.5	2529.7	10524.9	10524.9	2529.7	187.5	95.0	63.7	19.9	8.0	3.6			
0		8.9	22.2	68.0	105.7	209.7	2659.5	10474.2	10474.2	2659.5	209.7	105.7	68.0	22.2	8.9				
-10	4.2	9.3	23.8	67.1	117.1	144.2	738.4	2703.4	2703.4	738.4	144.2	117.1	67.1	23.8	9.3	4.2			
-20		9.0	24.1	51.9	119.2	146.0	159.3	247.4	247.4	159.3	146.0	119.2	51.9	24.1	9.0				
-30	4.0	8.1	22.5	41.4	87.4	146.8	164.9	166.8	166.8	164.9	146.8	87.4	41.4	22.5	8.1	4.0			
-40		6.7	18.4	36.2	54.1	81.8	121.2	151.1	151.1	121.2	81.8	54.1	36.2	18.4	6.7				
-50	3.4	5.2	13.4	26.4	42.1	54.9	63.9	69.8	69.8	63.9	54.9	42.1	26.4	13.4	5.2	3.4			
-60		4.1	8.8	16.1	25.4	34.2	41.7	46.7	46.7	41.7	34.2	25.4	16.1	8.8	4.1				
-70	2.3	15.7	37.6	59.2	70.6	59.2	37.6	15.7	2.3						2.3				
-80		15.7	37.6	59.2	70.6	59.2	37.6	15.7	2.3										
-90	2.3	15.7	37.6	59.2	70.6	59.2	37.6	15.7	2.3										

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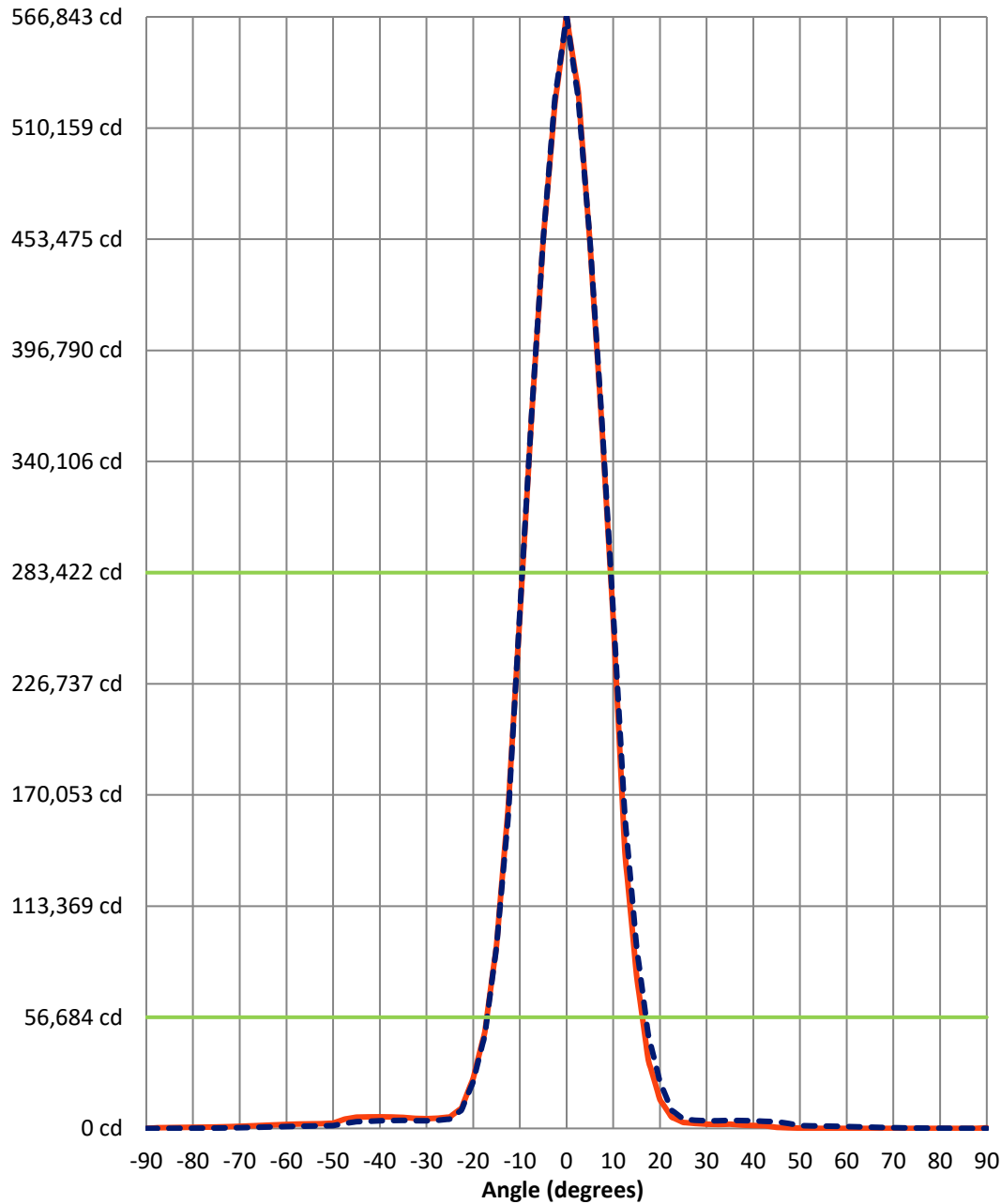
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 19°
V Angle: 18.9°
Lumens: 33120.1
Efficiency: 44.3%

Field:
H Angle: 34°
V Angle: 33.3°
Lumens: 60323.1
Efficiency: 80.7%

Spill:
Lumens: 14392.3
Efficiency: 19.3%

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



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	8.1	21.6	35.2	52.8	70.3	87.9	105.5	118.0	130.6	143.1	155.6
87.5°	8.1	7.0	5.6	5.7	5.6	5.5	5.4	5.4	5.4	5.4	5.4
85°	8.1	7.2	5.9	5.9	5.9	5.7	5.4	5.4	5.4	5.4	5.4
82.5°	8.1	7.5	6.1	6.2	6.1	5.9	5.4	5.4	5.4	5.5	5.4
80°	8.1	7.7	6.4	6.5	6.4	6.0	5.5	5.8	5.9	5.8	5.5
77.5°	8.1	8.0	6.7	6.7	6.6	6.5	6.3	6.4	6.4	6.1	5.7
75°	8.1	8.2	7.0	7.0	7.0	7.4	7.1	7.1	7.0	7.0	6.5
72.5°	8.1	8.5	7.3	7.3	8.0	8.4	8.0	8.0	8.3	8.1	7.3
70°	8.1	8.7	7.6	7.7	9.0	9.4	9.0	9.4	9.7	9.3	8.9
67.5°	8.1	9.0	8.0	8.6	10.0	10.4	10.8	10.9	11.2	11.5	10.7
65°	8.1	9.3	8.4	9.5	11.0	11.9	12.6	12.5	13.7	13.9	13.1
62.5°	8.1	9.5	8.8	10.4	12.1	13.9	14.6	14.8	16.3	16.7	16.6
60°	8.1	9.8	9.2	11.3	13.2	16.0	16.7	17.6	19.2	20.6	20.5
57.5°	8.1	10.1	10.1	12.2	15.0	18.1	20.0	20.6	23.0	24.8	27.0
55°	8.1	10.4	11.0	13.2	17.0	20.3	23.7	24.4	27.2	30.1	35.5
52.5°	8.1	10.7	12.0	14.1	19.0	22.8	27.5	29.5	31.7	39.2	44.7
50°	8.1	10.9	13.0	15.0	21.0	26.4	31.6	35.1	37.7	48.9	59.4
47.5°	8.1	11.2	14.1	16.1	23.0	30.1	36.0	41.2	47.2	59.2	75.7
45°	8.1	11.5	15.1	17.7	25.1	33.9	41.7	47.7	58.9	75.1	93.0
42.5°	8.1	11.8	16.2	19.2	27.2	37.8	47.7	56.9	71.2	91.8	118.9
40°	8.1	12.1	17.4	21.3	29.8	41.8	53.8	67.9	85.5	109.5	148.1
37.5°	8.1	12.4	18.5	23.7	32.9	45.9	60.2	79.2	103.4	132.4	179.1
35°	8.1	12.7	19.7	26.2	36.0	50.7	66.8	90.8	121.6	161.2	214.0
32.5°	8.1	13.0	20.9	28.6	39.1	55.9	74.4	102.5	140.2	189.3	250.4
30°	8.1	13.3	22.0	31.2	42.2	61.2	83.9	115.2	159.0	216.9	285.2
27.5°	8.1	13.6	23.2	33.7	46.6	66.5	93.4	130.7	179.6	243.7	318.4
25°	8.1	13.8	24.5	36.2	51.1	71.7	102.8	146.0	202.2	271.3	350.2
22.5°	8.1	14.1	25.7	38.8	55.6	77.3	112.0	161.1	223.9	298.3	385.2
20°	8.1	14.4	26.8	41.3	59.9	83.8	121.0	176.0	244.7	323.7	418.2
17.5°	8.1	14.6	28.0	43.8	64.3	89.9	130.1	190.5	264.5	347.5	449.3
15°	8.1	14.9	29.2	46.3	68.5	95.9	138.8	203.8	283.3	369.7	478.1
12.5°	8.1	15.1	30.3	48.7	72.6	101.6	147.1	215.4	300.3	390.2	504.8
10°	8.1	15.4	31.4	51.1	76.6	107.0	154.8	226.0	315.8	412.6	532.3
7.5°	8.1	15.6	32.4	53.3	80.4	112.2	162.0	235.7	330.2	434.5	564.2
5°	8.1	15.8	33.4	55.5	84.0	117.0	168.6	244.3	343.4	455.1	594.2
2.5°	8.1	16.0	34.3	57.6	87.5	121.6	174.6	251.9	355.1	474.1	621.8
0°	8.1	16.2	35.2	59.5	90.7	125.8	180.0	258.4	365.3	491.1	646.7
-2.5°	8.1	17.0	37.1	62.6	94.7	131.0	186.4	267.2	377.2	504.3	660.6
-5°	8.1	17.8	38.9	65.6	98.6	135.9	192.1	274.9	387.4	515.1	671.3
-7.5°	8.1	18.5	40.7	68.4	102.1	140.4	197.2	281.4	395.6	523.7	678.8
-10°	8.1	19.2	42.3	71.1	105.4	144.5	201.5	286.5	401.7	529.9	683.3
-12.5°	8.1	19.9	43.9	73.6	108.4	148.2	205.2	290.2	405.7	534.2	687.9
-15°	8.1	20.6	45.3	75.8	111.2	151.6	208.1	292.5	408.0	538.0	690.5
-17.5°	8.1	21.3	46.7	77.9	113.7	154.5	210.3	294.2	408.8	539.1	689.4
-20°	8.1	21.9	47.9	79.8	116.0	156.9	212.3	295.1	407.3	537.4	684.5



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 CATALOG NUMBER: EPH-LS-08-0530N-40-80-1S-VHE

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	8.1	22.5	48.9	81.5	118.0	159.0	214.0	294.3	403.7	533.0	675.7
-25°	8.1	23.0	49.9	82.9	119.7	160.9	214.9	291.8	397.8	525.8	663.0
-27.5°	8.1	23.5	50.7	84.1	121.1	162.5	214.9	287.7	389.7	516.2	652.2
-30°	8.1	24.0	51.4	85.1	122.3	163.6	214.0	281.8	382.2	505.0	638.4
-32.5°	8.1	24.4	51.9	85.9	123.2	164.2	212.1	278.7	374.1	491.1	621.2
-35°	8.1	24.7	52.3	86.4	123.9	164.3	211.4	275.6	364.0	474.7	600.8
-37.5°	8.1	25.1	52.5	86.7	124.1	164.2	211.0	271.4	351.7	455.7	579.8
-40°	8.1	25.4	52.6	86.7	124.1	164.2	209.9	266.0	337.3	438.1	555.7
-42.5°	8.1	25.6	52.5	86.5	123.7	163.6	208.1	259.4	326.9	419.0	527.8
-45°	8.1	25.8	52.3	86.0	123.1	162.7	205.7	253.7	318.0	397.4	497.1
-47.5°	8.1	25.9	51.9	85.3	122.1	161.2	202.6	250.1	307.6	373.6	469.8
-50°	8.1	26.0	51.4	84.4	120.7	159.3	200.0	245.6	295.0	359.0	439.8
-52.5°	8.1	26.1	50.8	83.3	119.0	157.0	197.1	240.3	286.0	342.6	408.5
-55°	8.1	26.1	49.9	82.0	117.0	154.2	193.5	234.5	278.1	324.4	387.5
-57.5°	8.1	26.0	49.0	80.5	114.6	151.1	189.4	229.5	269.4	312.3	364.5
-60°	8.1	25.9	47.9	78.7	112.0	147.5	184.8	223.4	260.4	301.4	343.7
-62.5°	8.1	25.8	47.4	76.7	109.1	143.5	179.7	216.5	252.2	289.6	330.3
-65°	8.1	25.6	46.8	74.6	105.9	139.1	174.0	209.0	243.3	278.7	315.9
-67.5°	8.1	25.4	46.1	72.2	102.4	134.3	167.9	200.9	233.7	267.5	302.2
-70°	8.1	25.1	45.2	69.6	98.7	129.2	161.3	192.3	223.2	255.5	288.4
-72.5°	8.1	24.8	44.3	67.8	94.6	123.8	154.2	183.1	212.1	242.3	273.6
-75°	8.1	24.5	43.2	66.0	90.3	118.0	146.7	173.4	200.4	228.4	257.3
-77.5°	8.1	24.1	42.1	64.2	87.2	111.9	138.9	163.2	188.0	213.7	240.3
-80°	8.1	23.7	40.8	62.1	84.2	106.9	130.6	152.6	175.0	198.2	222.2
-82.5°	8.1	23.2	39.5	60.0	81.0	102.5	124.5	142.7	161.7	182.3	203.5
-85°	8.1	22.7	38.2	57.7	77.6	97.8	118.4	134.7	151.4	168.5	185.9
-87.5°	8.1	22.2	36.7	55.3	74.0	93.0	112.1	126.5	141.1	155.9	170.9
-90°	8.1	6.8	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4



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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°	167.5	179.3	191.2	203.0	211.8	220.6	229.3	238.1	245.6	253.0	260.5
87.5°	5.1	4.8	4.4	4.1	4.1	4.1	4.1	4.1	3.8	3.4	3.1
85°	5.1	4.8	4.4	4.1	4.1	4.1	4.1	4.1	3.8	3.4	3.1
82.5°	5.1	4.8	4.5	4.1	4.1	4.1	4.1	4.1	3.9	3.6	3.5
80°	5.1	4.8	4.7	4.5	4.5	4.5	4.4	4.1	4.1	4.1	4.2
77.5°	5.6	5.5	5.4	5.3	5.2	4.9	4.8	4.8	4.8	4.7	4.5
75°	6.2	6.2	6.1	5.6	5.3	5.3	5.4	5.4	5.2	4.9	4.6
72.5°	7.1	7.0	6.6	5.9	5.7	5.8	5.8	5.6	5.9	6.7	7.4
70°	8.2	8.0	7.8	7.2	6.4	6.8	7.9	8.9	9.9	11.5	13.9
67.5°	9.6	10.0	9.6	9.0	8.9	10.2	11.4	15.7	20.4	23.0	24.0
65°	12.0	12.3	12.9	13.1	12.2	16.0	20.9	26.6	31.8	32.8	32.0
62.5°	14.9	16.5	17.5	18.6	20.1	23.8	29.5	35.1	40.9	39.2	33.8
60°	20.7	21.5	24.7	27.8	28.9	30.9	37.1	40.2	42.1	41.0	31.9
57.5°	27.7	29.3	34.6	38.2	39.3	36.9	39.2	41.2	41.0	36.1	27.7
55°	37.6	39.5	46.0	50.7	50.5	41.6	41.1	43.0	40.0	35.1	27.3
52.5°	51.8	53.0	60.1	65.2	63.4	54.2	47.7	50.7	50.2	43.9	37.3
50°	67.4	73.4	76.1	83.3	82.8	75.4	63.0	69.1	80.0	78.1	68.7
47.5°	89.6	97.4	97.7	106.4	110.3	116.8	106.3	119.5	135.7	168.7	158.2
45°	116.2	129.1	130.1	138.2	158.6	183.1	193.0	192.3	274.0	303.4	324.9
42.5°	145.5	166.3	175.0	174.4	240.1	277.5	298.7	366.2	428.2	447.0	457.1
40°	182.7	207.7	226.7	269.0	337.1	388.7	442.1	514.1	548.0	551.3	551.5
37.5°	223.6	259.9	290.4	362.7	449.4	506.8	573.1	604.0	627.5	628.8	655.4
35°	267.2	316.1	372.8	453.3	548.9	613.9	652.3	680.3	693.1	722.5	851.9
32.5°	317.5	376.3	450.3	539.9	631.2	697.5	720.4	744.5	775.7	863.1	1242.9
30°	368.0	444.2	523.9	620.4	712.9	759.6	783.8	814.1	863.1	1204.0	1730.3
27.5°	410.8	507.7	594.7	695.3	789.8	822.1	850.1	895.6	1103.7	1582.0	2313.2
25°	451.9	558.2	660.2	769.2	847.5	883.2	918.4	980.0	1386.3	2144.2	2643.3
22.5°	493.0	609.3	719.6	842.4	904.9	942.0	996.0	1226.5	1794.7	2705.9	2940.6
20°	535.2	660.2	778.6	901.5	960.1	998.7	1072.9	1505.6	2293.9	2945.6	3163.0
17.5°	576.5	709.4	834.1	943.1	1004.0	1058.5	1176.0	1786.3	2743.3	3182.2	3333.5
15°	616.7	756.4	884.5	983.4	1047.7	1123.0	1418.3	2159.7	3034.8	3394.5	3538.1
12.5°	655.2	800.9	930.1	1022.1	1091.3	1186.9	1671.8	2528.8	3229.9	3561.6	3699.2
10°	691.6	842.7	970.9	1059.0	1134.5	1249.5	1927.5	2840.4	3391.0	3674.6	3779.5
7.5°	725.9	878.9	1007.5	1093.9	1176.5	1309.6	2175.5	3097.5	3518.0	3770.5	3835.1
5°	756.0	908.4	1041.2	1131.5	1218.8	1363.0	2387.8	3303.2	3616.6	3850.3	3892.3
2.5°	781.8	933.8	1071.8	1167.8	1259.6	1405.5	2490.4	3386.7	3629.1	3885.4	3951.9
0°	803.7	955.2	1098.7	1201.5	1297.5	1442.3	2549.1	3429.9	3613.9	3895.3	4014.4
-2.5°	821.6	984.4	1137.1	1237.0	1333.8	1477.2	2544.8	3463.3	3651.9	3984.9	4254.4
-5°	835.7	1009.0	1170.9	1269.8	1367.0	1507.0	2499.1	3453.7	3703.8	4064.2	4402.3
-7.5°	845.9	1028.3	1199.4	1300.8	1399.7	1541.1	2466.5	3495.2	3854.8	4158.3	4462.3
-10°	852.6	1041.0	1216.8	1329.7	1432.7	1574.8	2396.2	3477.8	3995.9	4252.6	4519.8
-12.5°	860.4	1048.1	1228.0	1354.8	1461.4	1601.3	2272.2	3394.7	4126.6	4354.3	4576.1
-15°	863.6	1050.5	1233.9	1376.0	1485.6	1620.2	2092.2	3240.9	4213.9	4409.6	4612.1
-17.5°	862.1	1048.2	1234.4	1393.0	1505.0	1631.2	1854.4	2956.1	4076.7	4431.4	4645.6
-20°	855.8	1041.3	1229.5	1405.4	1519.6	1644.7	1816.1	2628.6	3702.1	4415.1	4669.6



REPORT NUMBER: P731477 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-1S-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	844.6	1029.7	1218.1	1398.4	1535.8	1662.1	1817.9	2289.0	3260.0	4360.1	4671.5
-25°	830.1	1013.4	1200.4	1390.9	1550.1	1673.8	1812.4	1992.5	2822.3	3884.5	4624.8
-27.5°	812.6	991.4	1183.1	1376.6	1561.6	1681.4	1813.7	1978.4	2436.3	3335.0	4446.9
-30°	790.6	966.8	1158.8	1354.3	1545.5	1689.5	1814.1	1945.8	2114.8	2839.3	3797.8
-32.5°	765.7	936.8	1126.8	1321.2	1515.6	1695.0	1803.6	1922.9	2068.2	2328.5	3147.2
-35°	740.6	906.0	1087.7	1280.5	1477.7	1662.6	1794.7	1901.4	2020.6	2178.9	2552.6
-37.5°	716.2	870.0	1041.9	1231.6	1425.2	1604.4	1778.1	1883.6	1992.7	2104.1	2259.6
-40°	687.4	829.0	995.2	1174.7	1356.8	1535.5	1707.8	1865.4	1965.7	2062.2	2163.0
-42.5°	654.5	792.3	944.8	1108.9	1280.8	1454.4	1629.4	1795.0	1935.9	2022.2	2114.1
-45°	619.0	751.0	890.7	1041.9	1198.0	1365.8	1534.4	1703.4	1853.9	1988.5	2070.7
-47.5°	579.1	705.4	839.0	969.7	1115.2	1269.6	1432.1	1591.0	1746.1	1889.2	2029.0
-50°	537.6	655.8	779.1	901.1	1031.0	1172.1	1321.4	1472.0	1620.8	1766.4	1903.8
-52.5°	500.6	601.5	715.3	831.3	949.4	1075.1	1207.8	1344.1	1486.7	1628.3	1756.1
-55°	460.5	552.5	647.5	756.8	869.0	982.2	1093.1	1215.9	1343.2	1476.6	1595.9
-57.5°	428.2	501.9	585.2	677.9	783.1	889.5	987.2	1086.0	1199.2	1317.5	1421.2
-60°	399.6	457.7	525.5	605.9	692.3	788.4	880.4	971.6	1063.1	1153.4	1251.4
-62.5°	371.8	422.4	475.5	536.5	612.9	686.6	767.6	852.0	936.4	1017.3	1095.7
-65°	355.0	390.3	435.5	485.4	535.2	599.5	665.0	729.8	804.2	877.4	949.1
-67.5°	336.9	370.2	403.9	440.6	486.4	528.6	570.5	629.1	687.1	742.0	798.4
-70°	319.9	349.5	380.8	412.6	443.3	474.6	513.0	551.0	588.4	628.7	677.2
-72.5°	302.6	329.9	357.9	386.5	414.2	440.1	466.1	492.1	522.6	555.5	587.5
-75°	283.8	309.5	335.2	361.2	385.3	408.2	431.4	455.0	478.1	501.1	524.1
-77.5°	263.9	287.1	310.7	334.8	356.1	376.2	396.6	417.3	437.6	457.6	477.5
-80°	243.3	264.1	285.1	306.4	324.8	342.6	360.6	378.7	396.5	414.2	431.6
-82.5°	221.7	239.9	258.4	277.1	292.8	308.1	323.4	338.7	353.8	368.8	383.8
-85°	200.7	215.3	231.0	246.9	260.1	273.1	286.1	299.1	311.6	324.1	336.5
-87.5°	184.2	197.4	210.6	223.8	234.1	244.4	254.6	264.8	274.4	284.0	293.6
-90°	5.1	4.8	4.4	4.1	4.1	4.1	4.1	4.1	3.8	3.4	3.1



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	267.9	273.0	278.1	283.1	288.2	292.6	297.0	301.4	305.8	308.5	311.2
87.5°	2.7	2.6	2.6	2.6	2.6	2.3	2.0	1.7	1.4	1.4	1.4
85°	2.7	2.7	2.7	2.7	2.7	2.4	2.1	1.7	1.4	1.4	1.4
82.5°	3.4	3.3	3.1	2.9	2.7	2.6	2.6	2.6	2.6	2.6	2.6
80°	4.1	3.8	3.5	3.1	2.7	2.7	2.7	2.7	2.7	2.7	2.7
77.5°	4.2	3.8	3.5	3.1	2.8	2.7	2.7	2.7	2.7	2.7	2.7
75°	4.2	4.1	4.3	4.3	4.0	4.0	4.0	4.0	3.9	3.6	3.4
72.5°	8.1	8.4	8.3	8.5	8.5	8.8	9.1	9.3	9.3	9.4	9.5
70°	15.2	15.7	16.1	15.9	14.9	14.2	13.8	13.4	13.0	13.3	14.1
67.5°	23.2	21.5	20.7	19.6	17.4	15.6	14.5	13.3	12.1	11.5	11.4
65°	28.7	22.7	19.7	17.5	15.7	13.7	11.8	10.2	8.7	7.8	7.4
62.5°	27.3	19.4	15.4	13.0	10.8	9.0	7.4	6.3	5.4	5.0	5.0
60°	23.3	15.3	10.7	8.7	6.5	4.3	4.0	3.8	3.5	3.2	3.5
57.5°	20.8	13.7	8.3	8.2	7.1	5.1	4.5	4.5	3.8	2.7	3.1
55°	23.2	19.6	13.6	14.0	13.7	11.5	9.8	11.7	11.3	8.8	9.7
52.5°	34.9	39.9	32.6	30.2	41.3	40.9	32.0	43.7	50.2	49.2	50.2
50°	82.0	92.6	103.8	95.0	116.7	129.6	126.8	142.1	157.7	157.4	162.3
47.5°	194.2	223.5	226.7	232.6	257.3	288.7	314.3	332.2	341.4	337.6	340.3
45°	347.6	354.1	369.3	403.0	445.0	495.6	534.2	556.6	632.1	685.7	717.1
42.5°	460.7	481.3	518.5	607.2	672.2	821.6	1002.3	1072.4	1161.3	1206.3	1209.1
40°	574.1	626.5	780.3	941.9	1292.7	1553.6	1569.2	1679.8	1730.8	1674.6	1666.3
37.5°	761.5	956.2	1220.3	1593.7	1756.9	1827.8	1866.8	1880.9	1891.2	1881.8	1877.0
35°	1130.8	1469.4	1728.6	1850.4	1924.1	1926.4	1935.5	1934.3	1922.2	1915.9	1902.5
32.5°	1675.5	1998.4	2006.3	1996.8	2012.2	2003.5	1986.6	1978.7	1952.5	1936.7	1942.1
30°	2237.1	2238.9	2207.0	2133.0	2096.0	2084.7	2060.1	2040.0	2015.1	2018.8	2105.3
27.5°	2459.9	2432.6	2388.0	2324.2	2200.1	2175.8	2156.1	2147.6	2251.5	2346.4	2431.0
25°	2709.3	2638.5	2614.0	2558.3	2430.7	2289.5	2351.6	2449.3	2585.0	2726.4	2862.8
22.5°	2924.8	2873.8	2858.1	2837.3	2629.1	2568.2	2653.4	2814.1	2999.6	3245.2	3946.6
20°	3137.4	3082.2	3064.1	2960.2	2851.0	2866.0	3024.4	3304.6	3823.3	5687.0	7962.9
17.5°	3316.0	3258.9	3197.1	3075.9	3041.2	3193.0	3509.7	4493.8	6942.0	13059.6	19277.2
15°	3482.4	3407.4	3302.4	3222.9	3288.6	3571.5	4355.9	7708.7	15638.9	25907.2	38853.6
12.5°	3630.4	3515.5	3368.6	3327.3	3527.4	4003.7	7080.1	15126.5	27257.1	41885.4	72279.0
10°	3733.3	3584.4	3456.3	3527.5	3845.5	5124.4	10188.5	22678.2	40624.0	73342.5	111181.6
7.5°	3777.5	3642.8	3568.2	3721.1	4145.8	6580.9	15337.7	31364.0	57376.9	101371.9	161745.1
5°	3827.7	3734.7	3693.1	3912.8	4435.0	7767.6	19040.8	38673.6	75291.9	127697.4	205442.8
2.5°	3929.0	3840.4	3811.5	4081.1	4688.0	8874.0	21934.6	44356.2	87161.0	149664.5	244220.7
0°	4107.8	3923.8	3900.8	4164.6	4789.7	9377.8	23833.4	47783.2	92806.3	159063.6	263300.2
-2.5°	4249.7	4030.6	3986.8	4222.0	4834.5	9130.9	23640.8	47665.2	90503.1	155922.2	251183.8
-5°	4373.6	4153.7	4093.3	4311.9	4932.8	9121.7	22388.4	43735.5	80983.8	137011.5	211687.6
-7.5°	4483.9	4293.8	4204.2	4378.2	4945.8	8168.8	18108.5	36008.0	64732.3	106970.9	163843.8
-10°	4600.1	4454.1	4332.1	4448.5	4890.8	6499.6	12114.4	25956.0	46099.7	77574.0	116599.4
-12.5°	4733.0	4659.4	4480.1	4497.1	4816.4	5484.7	8953.8	18121.1	32005.3	48866.7	77154.7
-15°	4845.7	4842.3	4692.3	4644.6	4803.3	5231.8	6246.9	10063.2	19414.3	31412.5	45406.0
-17.5°	4869.2	4989.1	4931.6	4785.8	4795.2	5035.4	5453.8	6668.7	9752.0	17283.9	25609.9
-20°	4884.3	5140.5	5146.5	5028.1	4924.4	4897.5	5088.8	5443.2	6132.1	8677.4	12027.7



REPORT NUMBER: P731477 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-1S-VHE

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4907.4	5150.9	5324.1	5291.4	5087.7	4968.6	4925.8	5060.0	5293.2	5621.6	6708.6
-25°	4918.4	5145.7	5393.6	5461.6	5376.2	5158.2	4995.1	4904.0	4986.5	5090.7	5303.3
-27.5°	4871.5	5137.5	5378.0	5579.4	5604.0	5461.4	5221.7	5027.2	4951.6	4880.0	4967.6
-30°	4793.6	5090.7	5342.1	5590.0	5689.2	5643.5	5518.0	5360.2	5176.0	5032.7	4982.3
-32.5°	4155.4	5020.7	5278.2	5493.0	5656.5	5703.3	5704.6	5620.1	5541.3	5430.7	5301.4
-35°	3423.6	4383.4	5221.1	5329.3	5479.2	5634.0	5749.0	5753.0	5743.7	5691.3	5636.8
-37.5°	2661.3	3555.8	4361.4	5006.3	5233.1	5415.4	5612.3	5745.3	5828.9	5813.9	5803.8
-40°	2317.0	2598.9	3352.6	4010.0	4561.5	5080.5	5293.8	5532.9	5725.2	5792.1	5837.3
-42.5°	2210.6	2331.3	2454.0	2952.1	3520.3	4020.1	4490.1	4938.2	5338.5	5565.2	5723.0
-45°	2152.3	2219.4	2294.6	2405.5	2501.4	2915.3	3336.4	3745.4	4244.7	4704.3	5102.8
-47.5°	2098.4	2150.8	2209.0	2266.1	2319.3	2394.5	2459.6	2575.7	2949.7	3326.8	3705.1
-50°	2011.5	2098.2	2146.4	2189.0	2226.7	2261.6	2291.7	2344.2	2406.3	2460.4	2515.1
-52.5°	1866.2	1963.9	2056.6	2126.8	2156.3	2185.3	2214.9	2254.7	2291.4	2325.0	2350.9
-55°	1703.3	1802.2	1895.7	1966.9	2030.7	2089.5	2141.9	2177.1	2211.4	2244.5	2269.7
-57.5°	1524.2	1625.0	1716.4	1784.7	1848.6	1907.9	1965.5	2020.9	2071.7	2117.4	2156.3
-60°	1342.9	1428.0	1510.5	1582.7	1648.5	1707.9	1765.0	1819.5	1869.4	1914.3	1953.3
-62.5°	1172.6	1251.4	1316.7	1375.7	1432.4	1487.2	1544.9	1598.0	1646.3	1690.4	1730.8
-65°	1019.0	1086.9	1136.4	1182.6	1226.3	1273.3	1324.1	1370.9	1413.5	1453.1	1489.7
-67.5°	861.1	919.9	963.3	1003.3	1040.6	1078.1	1118.7	1156.5	1191.3	1224.6	1255.8
-70°	724.0	765.0	795.3	825.9	859.0	892.8	927.8	959.6	988.2	1015.5	1040.6
-72.5°	618.5	643.7	665.0	691.2	714.8	740.0	766.0	790.0	812.0	833.3	853.4
-75°	547.2	565.7	583.0	599.2	614.4	632.4	651.1	668.8	685.4	701.0	715.7
-77.5°	497.5	511.9	523.8	535.1	545.8	559.8	574.5	588.7	602.6	614.3	625.2
-80°	449.0	460.5	470.7	480.5	490.0	502.0	514.3	526.3	538.0	548.6	558.8
-82.5°	398.7	408.2	416.8	425.2	433.2	443.5	453.6	463.5	473.0	481.8	490.3
-85°	348.8	355.9	362.7	369.3	375.7	384.0	392.2	400.3	408.2	413.9	419.4
-87.5°	303.3	308.6	313.7	318.8	323.7	329.7	335.7	341.7	347.6	351.4	355.2
-90°	2.7	2.4	2.1	1.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4



REPORT NUMBER: P731477 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-1S-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	313.9	316.6	316.0	315.3	316.0	316.6	313.9	311.2	308.5	305.8	301.4
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.7
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.7
82.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.6	2.6	2.6	2.6
80°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
75°	3.1	2.7	2.7	2.7	2.7	2.7	3.1	3.4	3.6	3.9	4.0
72.5°	9.5	9.3	9.5	9.5	9.5	9.3	9.5	9.5	9.4	9.3	9.3
70°	15.0	15.9	16.1	16.2	16.1	15.9	15.0	14.1	13.3	13.0	13.4
67.5°	11.2	11.0	10.3	9.5	10.3	11.0	11.2	11.4	11.5	12.1	13.3
65°	7.2	7.0	6.8	6.8	6.8	7.0	7.2	7.4	7.8	8.7	10.2
62.5°	5.1	5.4	5.4	5.4	5.4	5.4	5.1	5.0	5.0	5.4	6.3
60°	3.7	4.1	4.1	4.1	4.1	4.1	3.7	3.5	3.2	3.5	3.8
57.5°	3.6	4.0	4.1	4.1	4.1	4.0	3.6	3.1	2.7	3.8	4.5
55°	10.3	10.5	10.2	9.5	10.2	10.5	10.3	9.7	8.8	11.3	11.7
52.5°	49.3	45.5	39.6	32.5	39.6	45.5	49.3	50.2	49.2	50.2	43.7
50°	171.7	176.3	172.2	159.7	172.2	176.3	171.7	162.3	157.4	157.7	142.1
47.5°	353.7	357.6	345.3	316.6	345.3	357.6	353.7	340.3	337.6	341.4	332.2
45°	740.4	734.7	670.9	538.5	670.9	734.7	740.4	717.1	685.7	632.1	556.6
42.5°	1276.9	1333.8	1367.3	1367.9	1367.3	1333.8	1276.9	1209.1	1206.3	1161.3	1072.4
40°	1652.7	1586.0	1513.2	1501.9	1513.2	1586.0	1652.7	1666.3	1674.6	1730.8	1679.8
37.5°	1865.6	1879.6	1871.6	1714.3	1871.6	1879.6	1865.6	1877.0	1881.8	1891.2	1880.9
35°	1933.4	2039.1	2147.9	2170.2	2147.9	2039.1	1933.4	1902.5	1915.9	1922.2	1934.3
32.5°	1966.2	2002.4	2012.2	2016.0	2012.2	2002.4	1966.2	1942.1	1936.7	1952.5	1978.7
30°	2145.1	2168.8	2165.4	2160.8	2165.4	2168.8	2145.1	2105.3	2018.8	2015.1	2040.0
27.5°	2471.0	2510.1	2527.7	2539.6	2527.7	2510.1	2471.0	2431.0	2346.4	2251.5	2147.6
25°	2937.4	2997.3	3038.4	3056.5	3038.4	2997.3	2937.4	2862.8	2726.4	2585.0	2449.3
22.5°	4756.7	5171.8	5582.6	5795.0	5582.6	5171.8	4756.7	3946.6	3245.2	2999.6	2814.1
20°	11874.6	13668.1	14487.1	14726.3	14487.1	13668.1	11874.6	7962.9	5687.0	3823.3	3304.6
17.5°	27653.4	34451.9	38999.0	35014.8	38999.0	34451.9	27653.4	19277.2	13059.6	6942.0	4493.8
15°	56600.4	73818.2	83452.8	78031.3	83452.8	73818.2	56600.4	38853.6	25907.2	15638.9	7708.7
12.5°	101977.5	128848.7	146896.2	140944.7	146896.2	128848.7	101977.5	72279.0	41885.4	27257.1	15126.5
10°	160510.5	214544.0	250522.8	259417.1	250522.8	214544.0	160510.5	111181.6	73342.5	40624.0	22678.2
7.5°	232931.4	299832.3	352640.4	360813.7	352640.4	299832.3	232931.4	161745.1	101371.9	57376.9	31364.0
5°	303780.4	382748.3	437694.0	451958.5	437694.0	382748.3	303780.4	205442.8	127697.4	75291.9	38673.6
2.5°	347754.5	433704.6	499889.8	529042.7	499889.8	433704.6	347754.5	244220.7	149664.5	87161.0	44356.2
0°	363450.0	453214.1	525024.9	566843.3	525024.9	453214.1	363450.0	263300.2	159063.6	92806.3	47783.2
-2.5°	351281.0	432570.7	493191.8	522262.7	493191.8	432570.7	351281.0	251183.8	155922.2	90503.1	47665.2
-5°	299192.2	379959.4	429281.8	452962.4	429281.8	379959.4	299192.2	211687.6	137011.5	80983.8	43735.5
-7.5°	233792.1	298436.3	341027.3	362571.2	341027.3	298436.3	233792.1	163843.8	106970.9	64732.3	36008.0
-10°	163584.3	214871.0	243580.8	261159.8	243580.8	214871.0	163584.3	116599.4	77574.0	46099.7	25956.0
-12.5°	106436.0	136287.9	152367.3	163630.0	152367.3	136287.9	106436.0	77154.7	48866.7	32005.3	18121.1
-15°	64613.0	79161.5	87891.4	93363.7	87891.4	79161.5	64613.0	45406.0	31412.5	19414.3	10063.2
-17.5°	36063.1	42311.9	46736.6	49185.0	46736.6	42311.9	36063.1	25609.9	17283.9	9752.0	6668.7
-20°	17894.6	21847.6	24444.1	25534.2	24444.1	21847.6	17894.6	12027.7	8677.4	6132.1	5443.2



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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°	8258.5	9314.4	10013.5	10346.5	10013.5	9314.4	8258.5	6708.6	5621.6	5293.2	5060.0
-25°	5510.0	5675.7	5797.5	5850.5	5797.5	5675.7	5510.0	5303.3	5090.7	4986.5	4904.0
-27.5°	5046.8	5134.6	5207.4	5236.2	5207.4	5134.6	5046.8	4967.6	4880.0	4951.6	5027.2
-30°	4943.7	4947.6	4968.2	4968.3	4968.2	4947.6	4943.7	4982.3	5032.7	5176.0	5360.2
-32.5°	5203.5	5146.4	5121.6	5148.2	5121.6	5146.4	5203.5	5301.4	5430.7	5541.3	5620.1
-35°	5600.4	5585.1	5586.3	5615.0	5586.3	5585.1	5600.4	5636.8	5691.3	5743.7	5753.0
-37.5°	5806.4	5818.5	5832.2	5835.6	5832.2	5818.5	5806.4	5803.8	5813.9	5828.9	5745.3
-40°	5863.6	5887.2	5905.1	5911.3	5905.1	5887.2	5863.6	5837.3	5792.1	5725.2	5532.9
-42.5°	5792.7	5839.8	5864.8	5870.8	5864.8	5839.8	5792.7	5723.0	5565.2	5338.5	4938.2
-45°	5392.3	5602.3	5721.0	5753.0	5721.0	5602.3	5392.3	5102.8	4704.3	4244.7	3745.4
-47.5°	4073.2	4402.8	4632.3	4738.3	4632.3	4402.8	4073.2	3705.1	3326.8	2949.7	2575.7
-50°	2572.4	2626.8	2667.3	2692.5	2667.3	2626.8	2572.4	2515.1	2460.4	2406.3	2344.2
-52.5°	2373.3	2393.2	2404.8	2409.7	2404.8	2393.2	2373.3	2350.9	2325.0	2291.4	2254.7
-55°	2291.2	2309.7	2317.8	2319.1	2317.8	2309.7	2291.2	2269.7	2244.5	2211.4	2177.1
-57.5°	2189.9	2218.0	2230.4	2232.5	2230.4	2218.0	2189.9	2156.3	2117.4	2071.7	2020.9
-60°	1986.4	2013.7	2027.1	2032.2	2027.1	2013.7	1986.4	1953.3	1914.3	1869.4	1819.5
-62.5°	1765.9	1795.5	1804.6	1803.6	1804.6	1795.5	1765.9	1730.8	1690.4	1646.3	1598.0
-65°	1521.6	1548.7	1556.5	1556.0	1556.5	1548.7	1521.6	1489.7	1453.1	1413.5	1370.9
-67.5°	1283.5	1307.5	1315.7	1317.8	1315.7	1307.5	1283.5	1255.8	1224.6	1191.3	1156.5
-70°	1062.7	1081.6	1086.4	1086.5	1086.4	1081.6	1062.7	1040.6	1015.5	988.2	959.6
-72.5°	871.6	887.9	890.7	890.3	890.7	887.9	871.6	853.4	833.3	812.0	790.0
-75°	729.6	742.5	743.0	741.5	743.0	742.5	729.6	715.7	701.0	685.4	668.8
-77.5°	635.4	645.0	647.0	648.1	647.0	645.0	635.4	625.2	614.3	602.6	588.7
-80°	568.5	577.8	577.5	576.4	577.5	577.8	568.5	558.8	548.6	538.0	526.3
-82.5°	498.5	506.4	506.5	506.0	506.5	506.4	498.5	490.3	481.8	473.0	463.5
-85°	424.7	429.8	429.5	428.9	429.5	429.8	424.7	419.4	413.9	408.2	400.3
-87.5°	358.8	362.4	362.6	362.6	362.6	362.4	358.8	355.2	351.4	347.6	341.7
-90°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	297.0	292.6	288.2	283.1	278.1	273.0	267.9	260.5	253.0	245.6	238.1
87.5°	2.0	2.3	2.6	2.6	2.6	2.6	2.7	3.1	3.4	3.8	4.1
85°	2.1	2.4	2.7	2.7	2.7	2.7	2.7	3.1	3.4	3.8	4.1
82.5°	2.6	2.6	2.7	2.9	3.1	3.3	3.4	3.5	3.6	3.9	4.1
80°	2.7	2.7	2.7	3.1	3.5	3.8	4.1	4.2	4.1	4.1	4.1
77.5°	2.7	2.7	2.8	3.1	3.5	3.8	4.2	4.5	4.7	4.8	4.8
75°	4.0	4.0	4.0	4.3	4.3	4.1	4.2	4.6	4.9	5.2	5.4
72.5°	9.1	8.8	8.5	8.5	8.3	8.4	8.1	7.4	6.7	5.9	5.6
70°	13.8	14.2	14.9	15.9	16.1	15.7	15.2	13.9	11.5	9.9	8.9
67.5°	14.5	15.6	17.4	19.6	20.7	21.5	23.2	24.0	23.0	20.4	15.7
65°	11.8	13.7	15.7	17.5	19.7	22.7	28.7	32.0	32.8	31.8	26.6
62.5°	7.4	9.0	10.8	13.0	15.4	19.4	27.3	33.8	39.2	40.9	35.1
60°	4.0	4.3	6.5	8.7	10.7	15.3	23.3	31.9	41.0	42.1	40.2
57.5°	4.5	5.1	7.1	8.2	8.3	13.7	20.8	27.7	36.1	41.0	41.2
55°	9.8	11.5	13.7	14.0	13.6	19.6	23.2	27.3	35.1	40.0	43.0
52.5°	32.0	40.9	41.3	30.2	32.6	39.9	34.9	37.3	43.9	50.2	50.7
50°	126.8	129.6	116.7	95.0	103.8	92.6	82.0	68.7	78.1	80.0	69.1
47.5°	314.3	288.7	257.3	232.6	226.7	223.5	194.2	158.2	168.7	135.7	119.5
45°	534.2	495.6	445.0	403.0	369.3	354.1	347.6	324.9	303.4	274.0	192.3
42.5°	1002.3	821.6	672.2	607.2	518.5	481.3	460.7	457.1	447.0	428.2	366.2
40°	1569.2	1553.6	1292.7	941.9	780.3	626.5	574.1	551.5	551.3	548.0	514.1
37.5°	1866.8	1827.8	1756.9	1593.7	1220.3	956.2	761.5	655.4	628.8	627.5	604.0
35°	1935.5	1926.4	1924.1	1850.4	1728.6	1469.4	1130.8	851.9	722.5	693.1	680.3
32.5°	1986.6	2003.5	2012.2	1996.8	2006.3	1998.4	1675.5	1242.9	863.1	775.7	744.5
30°	2060.1	2084.7	2096.0	2133.0	2207.0	2238.9	2237.1	1730.3	1204.0	863.1	814.1
27.5°	2156.1	2175.8	2200.1	2324.2	2388.0	2432.6	2459.9	2313.2	1582.0	1103.7	895.6
25°	2351.6	2289.5	2430.7	2558.3	2614.0	2638.5	2709.3	2643.3	2144.2	1386.3	980.0
22.5°	2653.4	2568.2	2629.1	2837.3	2858.1	2873.8	2924.8	2940.6	2705.9	1794.7	1226.5
20°	3024.4	2866.0	2851.0	2960.2	3064.1	3082.2	3137.4	3163.0	2945.6	2293.9	1505.6
17.5°	3509.7	3193.0	3041.2	3075.9	3197.1	3258.9	3316.0	3333.5	3182.2	2743.3	1786.3
15°	4355.9	3571.5	3288.6	3222.9	3302.4	3407.4	3482.4	3538.1	3394.5	3034.8	2159.7
12.5°	7080.1	4003.7	3527.4	3327.3	3368.6	3515.5	3630.4	3699.2	3561.6	3229.9	2528.8
10°	10188.5	5124.4	3845.5	3527.5	3456.3	3584.4	3733.3	3779.5	3674.6	3391.0	2840.4
7.5°	15337.7	6580.9	4145.8	3721.1	3568.2	3642.8	3777.5	3835.1	3770.5	3518.0	3097.5
5°	19040.8	7767.6	4435.0	3912.8	3693.1	3734.7	3827.7	3892.3	3850.3	3616.6	3303.2
2.5°	21934.6	8874.0	4688.0	4081.1	3811.5	3840.4	3929.0	3951.9	3885.4	3629.1	3386.7
0°	23833.4	9377.8	4789.7	4164.6	3900.8	3923.8	4107.8	4014.4	3895.3	3613.9	3429.9
-2.5°	23640.8	9130.9	4834.5	4222.0	3986.8	4030.6	4249.7	4254.4	3984.9	3651.9	3463.3
-5°	22388.4	9121.7	4932.8	4311.9	4093.3	4153.7	4373.6	4402.3	4064.2	3703.8	3453.7
-7.5°	18108.5	8168.8	4945.8	4378.2	4204.2	4293.8	4483.9	4462.3	4158.3	3854.8	3495.2
-10°	12114.4	6499.6	4890.8	4448.5	4332.1	4454.1	4600.1	4519.8	4252.6	3995.9	3477.8
-12.5°	8953.8	5484.7	4816.4	4497.1	4480.1	4659.4	4733.0	4576.1	4354.3	4126.6	3394.7
-15°	6246.9	5231.8	4803.3	4644.6	4692.3	4842.3	4845.7	4612.1	4409.6	4213.9	3240.9
-17.5°	5453.8	5035.4	4795.2	4785.8	4931.6	4989.1	4869.2	4645.6	4431.4	4076.7	2956.1
-20°	5088.8	4897.5	4924.4	5028.1	5146.5	5140.5	4884.3	4669.6	4415.1	3702.1	2628.6



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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°	4925.8	4968.6	5087.7	5291.4	5324.1	5150.9	4907.4	4671.5	4360.1	3260.0	2289.0
-25°	4995.1	5158.2	5376.2	5461.6	5393.6	5145.7	4918.4	4624.8	3884.5	2822.3	1992.5
-27.5°	5221.7	5461.4	5604.0	5579.4	5378.0	5137.5	4871.5	4446.9	3335.0	2436.3	1978.4
-30°	5518.0	5643.5	5689.2	5590.0	5342.1	5090.7	4793.6	3797.8	2839.3	2114.8	1945.8
-32.5°	5704.6	5703.3	5656.5	5493.0	5278.2	5020.7	4155.4	3147.2	2328.5	2068.2	1922.9
-35°	5749.0	5634.0	5479.2	5329.3	5221.1	4383.4	3423.6	2552.6	2178.9	2020.6	1901.4
-37.5°	5612.3	5415.4	5233.1	5006.3	4361.4	3555.8	2661.3	2259.6	2104.1	1992.7	1883.6
-40°	5293.8	5080.5	4561.5	4010.0	3352.6	2598.9	2317.0	2163.0	2062.2	1965.7	1865.4
-42.5°	4490.1	4020.1	3520.3	2952.1	2454.0	2331.3	2210.6	2114.1	2022.2	1935.9	1795.0
-45°	3336.4	2915.3	2501.4	2405.5	2294.6	2219.4	2152.3	2070.7	1988.5	1853.9	1703.4
-47.5°	2459.6	2394.5	2319.3	2266.1	2209.0	2150.8	2098.4	2029.0	1889.2	1746.1	1591.0
-50°	2291.7	2261.6	2226.7	2189.0	2146.4	2098.2	2011.5	1903.8	1766.4	1620.8	1472.0
-52.5°	2214.9	2185.3	2156.3	2126.8	2056.6	1963.9	1866.2	1756.1	1628.3	1486.7	1344.1
-55°	2141.9	2089.5	2030.7	1966.9	1895.7	1802.2	1703.3	1595.9	1476.6	1343.2	1215.9
-57.5°	1965.5	1907.9	1848.6	1784.7	1716.4	1625.0	1524.2	1421.2	1317.5	1199.2	1086.0
-60°	1765.0	1707.9	1648.5	1582.7	1510.5	1428.0	1342.9	1251.4	1153.4	1063.1	971.6
-62.5°	1544.9	1487.2	1432.4	1375.7	1316.7	1251.4	1172.6	1095.7	1017.3	936.4	852.0
-65°	1324.1	1273.3	1226.3	1182.6	1136.4	1086.9	1019.0	949.1	877.4	804.2	729.8
-67.5°	1118.7	1078.1	1040.6	1003.3	963.3	919.9	861.1	798.4	742.0	687.1	629.1
-70°	927.8	892.8	859.0	825.9	795.3	765.0	724.0	677.2	628.7	588.4	551.0
-72.5°	766.0	740.0	714.8	691.2	665.0	643.7	618.5	587.5	555.5	522.6	492.1
-75°	651.1	632.4	614.4	599.2	583.0	565.7	547.2	524.1	501.1	478.1	455.0
-77.5°	574.5	559.8	545.8	535.1	523.8	511.9	497.5	477.5	457.6	437.6	417.3
-80°	514.3	502.0	490.0	480.5	470.7	460.5	449.0	431.6	414.2	396.5	378.7
-82.5°	453.6	443.5	433.2	425.2	416.8	408.2	398.7	383.8	368.8	353.8	338.7
-85°	392.2	384.0	375.7	369.3	362.7	355.9	348.8	336.5	324.1	311.6	299.1
-87.5°	335.7	329.7	323.7	318.8	313.7	308.6	303.3	293.6	284.0	274.4	264.8
-90°	1.4	1.4	1.4	1.7	2.1	2.4	2.7	3.1	3.4	3.8	4.1



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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°	229.3	220.6	211.8	203.0	191.2	179.3	167.5	155.6	143.1	130.6	118.0
87.5°	4.1	4.1	4.1	4.1	4.4	4.8	5.1	5.4	5.4	5.4	5.4
85°	4.1	4.1	4.1	4.1	4.4	4.8	5.1	5.4	5.4	5.4	5.4
82.5°	4.1	4.1	4.1	4.1	4.5	4.8	5.1	5.4	5.5	5.4	5.4
80°	4.4	4.5	4.5	4.5	4.7	4.8	5.1	5.5	5.8	5.9	5.8
77.5°	4.8	4.9	5.2	5.3	5.4	5.5	5.6	5.7	6.1	6.4	6.4
75°	5.4	5.3	5.3	5.6	6.1	6.2	6.2	6.5	7.0	7.0	7.1
72.5°	5.8	5.8	5.7	5.9	6.6	7.0	7.1	7.3	8.1	8.3	8.0
70°	7.9	6.8	6.4	7.2	7.8	8.0	8.2	8.9	9.3	9.7	9.4
67.5°	11.4	10.2	8.9	9.0	9.6	10.0	9.6	10.7	11.5	11.2	10.9
65°	20.9	16.0	12.2	13.1	12.9	12.3	12.0	13.1	13.9	13.7	12.5
62.5°	29.5	23.8	20.1	18.6	17.5	16.5	14.9	16.6	16.7	16.3	14.8
60°	37.1	30.9	28.9	27.8	24.7	21.5	20.7	20.5	20.6	19.2	17.6
57.5°	39.2	36.9	39.3	38.2	34.6	29.3	27.7	27.0	24.8	23.0	20.6
55°	41.1	41.6	50.5	50.7	46.0	39.5	37.6	35.5	30.1	27.2	24.4
52.5°	47.7	54.2	63.4	65.2	60.1	53.0	51.8	44.7	39.2	31.7	29.5
50°	63.0	75.4	82.8	83.3	76.1	73.4	67.4	59.4	48.9	37.7	35.1
47.5°	106.3	116.8	110.3	106.4	97.7	97.4	89.6	75.7	59.2	47.2	41.2
45°	193.0	183.1	158.6	138.2	130.1	129.1	116.2	93.0	75.1	58.9	47.7
42.5°	298.7	277.5	240.1	174.4	175.0	166.3	145.5	118.9	91.8	71.2	56.9
40°	442.1	388.7	337.1	269.0	226.7	207.7	182.7	148.1	109.5	85.5	67.9
37.5°	573.1	506.8	449.4	362.7	290.4	259.9	223.6	179.1	132.4	103.4	79.2
35°	652.3	613.9	548.9	453.3	372.8	316.1	267.2	214.0	161.2	121.6	90.8
32.5°	720.4	697.5	631.2	539.9	450.3	376.3	317.5	250.4	189.3	140.2	102.5
30°	783.8	759.6	712.9	620.4	523.9	444.2	368.0	285.2	216.9	159.0	115.2
27.5°	850.1	822.1	789.8	695.3	594.7	507.7	410.8	318.4	243.7	179.6	130.7
25°	918.4	883.2	847.5	769.2	660.2	558.2	451.9	350.2	271.3	202.2	146.0
22.5°	996.0	942.0	904.9	842.4	719.6	609.3	493.0	385.2	298.3	223.9	161.1
20°	1072.9	998.7	960.1	901.5	778.6	660.2	535.2	418.2	323.7	244.7	176.0
17.5°	1176.0	1058.5	1004.0	943.1	834.1	709.4	576.5	449.3	347.5	264.5	190.5
15°	1418.3	1123.0	1047.7	983.4	884.5	756.4	616.7	478.1	369.7	283.3	203.8
12.5°	1671.8	1186.9	1091.3	1022.1	930.1	800.9	655.2	504.8	390.2	300.3	215.4
10°	1927.5	1249.5	1134.5	1059.0	970.9	842.7	691.6	532.3	412.6	315.8	226.0
7.5°	2175.5	1309.6	1176.5	1093.9	1007.5	878.9	725.9	564.2	434.5	330.2	235.7
5°	2387.8	1363.0	1218.8	1131.5	1041.2	908.4	756.0	594.2	455.1	343.4	244.3
2.5°	2490.4	1405.5	1259.6	1167.8	1071.8	933.8	781.8	621.8	474.1	355.1	251.9
0°	2549.1	1442.3	1297.5	1201.5	1098.7	955.2	803.7	646.7	491.1	365.3	258.4
-2.5°	2544.8	1477.2	1333.8	1237.0	1137.1	984.4	821.6	660.6	504.3	377.2	267.2
-5°	2499.1	1507.0	1367.0	1269.8	1170.9	1009.0	835.7	671.3	515.1	387.4	274.9
-7.5°	2466.5	1541.1	1399.7	1300.8	1199.4	1028.3	845.9	678.8	523.7	395.6	281.4
-10°	2396.2	1574.8	1432.7	1329.7	1216.8	1041.0	852.6	683.3	529.9	401.7	286.5
-12.5°	2272.2	1601.3	1461.4	1354.8	1228.0	1048.1	860.4	687.9	534.2	405.7	290.2
-15°	2092.2	1620.2	1485.6	1376.0	1233.9	1050.5	863.6	690.5	538.0	408.0	292.5
-17.5°	1854.4	1631.2	1505.0	1393.0	1234.4	1048.2	862.1	689.4	539.1	408.8	294.2
-20°	1816.1	1644.7	1519.6	1405.4	1229.5	1041.3	855.8	684.5	537.4	407.3	295.1



REPORT NUMBER: P731477 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-1S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1817.9	1662.1	1535.8	1398.4	1218.1	1029.7	844.6	675.7	533.0	403.7	294.3
-25°	1812.4	1673.8	1550.1	1390.9	1200.4	1013.4	830.1	663.0	525.8	397.8	291.8
-27.5°	1813.7	1681.4	1561.6	1376.6	1183.1	991.4	812.6	652.2	516.2	389.7	287.7
-30°	1814.1	1689.5	1545.5	1354.3	1158.8	966.8	790.6	638.4	505.0	382.2	281.8
-32.5°	1803.6	1695.0	1515.6	1321.2	1126.8	936.8	765.7	621.2	491.1	374.1	278.7
-35°	1794.7	1662.6	1477.7	1280.5	1087.7	906.0	740.6	600.8	474.7	364.0	275.6
-37.5°	1778.1	1604.4	1425.2	1231.6	1041.9	870.0	716.2	579.8	455.7	351.7	271.4
-40°	1707.8	1535.5	1356.8	1174.7	995.2	829.0	687.4	555.7	438.1	337.3	266.0
-42.5°	1629.4	1454.4	1280.8	1108.9	944.8	792.3	654.5	527.8	419.0	326.9	259.4
-45°	1534.4	1365.8	1198.0	1041.9	890.7	751.0	619.0	497.1	397.4	318.0	253.7
-47.5°	1432.1	1269.6	1115.2	969.7	839.0	705.4	579.1	469.8	373.6	307.6	250.1
-50°	1321.4	1172.1	1031.0	901.1	779.1	655.8	537.6	439.8	359.0	295.0	245.6
-52.5°	1207.8	1075.1	949.4	831.3	715.3	601.5	500.6	408.5	342.6	286.0	240.3
-55°	1093.1	982.2	869.0	756.8	647.5	552.5	460.5	387.5	324.4	278.1	234.5
-57.5°	987.2	889.5	783.1	677.9	585.2	501.9	428.2	364.5	312.3	269.4	229.5
-60°	880.4	788.4	692.3	605.9	525.5	457.7	399.6	343.7	301.4	260.4	223.4
-62.5°	767.6	686.6	612.9	536.5	475.5	422.4	371.8	330.3	289.6	252.2	216.5
-65°	665.0	599.5	535.2	485.4	435.5	390.3	355.0	315.9	278.7	243.3	209.0
-67.5°	570.5	528.6	486.4	440.6	403.9	370.2	336.9	302.2	267.5	233.7	200.9
-70°	513.0	474.6	443.3	412.6	380.8	349.5	319.9	288.4	255.5	223.2	192.3
-72.5°	466.1	440.1	414.2	386.5	357.9	329.9	302.6	273.6	242.3	212.1	183.1
-75°	431.4	408.2	385.3	361.2	335.2	309.5	283.8	257.3	228.4	200.4	173.4
-77.5°	396.6	376.2	356.1	334.8	310.7	287.1	263.9	240.3	213.7	188.0	163.2
-80°	360.6	342.6	324.8	306.4	285.1	264.1	243.3	222.2	198.2	175.0	152.6
-82.5°	323.4	308.1	292.8	277.1	258.4	239.9	221.7	203.5	182.3	161.7	142.7
-85°	286.1	273.1	260.1	246.9	231.0	215.3	200.7	185.9	168.5	151.4	134.7
-87.5°	254.6	244.4	234.1	223.8	210.6	197.4	184.2	170.9	155.9	141.1	126.5
-90°	4.1	4.1	4.1	4.1	4.4	4.8	5.1	5.4	5.4	5.4	5.4



REPORT NUMBER: P731477 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	105.5	87.9	70.3	52.8	35.2	21.6	8.1
87.5°	5.4	5.5	5.6	5.7	5.6	7.0	8.1
85°	5.4	5.7	5.9	5.9	5.9	7.2	8.1
82.5°	5.4	5.9	6.1	6.2	6.1	7.5	8.1
80°	5.5	6.0	6.4	6.5	6.4	7.7	8.1
77.5°	6.3	6.5	6.6	6.7	6.7	8.0	8.1
75°	7.1	7.4	7.0	7.0	7.0	8.2	8.1
72.5°	8.0	8.4	8.0	7.3	7.3	8.5	8.1
70°	9.0	9.4	9.0	7.7	7.6	8.7	8.1
67.5°	10.8	10.4	10.0	8.6	8.0	9.0	8.1
65°	12.6	11.9	11.0	9.5	8.4	9.3	8.1
62.5°	14.6	13.9	12.1	10.4	8.8	9.5	8.1
60°	16.7	16.0	13.2	11.3	9.2	9.8	8.1
57.5°	20.0	18.1	15.0	12.2	10.1	10.1	8.1
55°	23.7	20.3	17.0	13.2	11.0	10.4	8.1
52.5°	27.5	22.8	19.0	14.1	12.0	10.7	8.1
50°	31.6	26.4	21.0	15.0	13.0	10.9	8.1
47.5°	36.0	30.1	23.0	16.1	14.1	11.2	8.1
45°	41.7	33.9	25.1	17.7	15.1	11.5	8.1
42.5°	47.7	37.8	27.2	19.2	16.2	11.8	8.1
40°	53.8	41.8	29.8	21.3	17.4	12.1	8.1
37.5°	60.2	45.9	32.9	23.7	18.5	12.4	8.1
35°	66.8	50.7	36.0	26.2	19.7	12.7	8.1
32.5°	74.4	55.9	39.1	28.6	20.9	13.0	8.1
30°	83.9	61.2	42.2	31.2	22.0	13.3	8.1
27.5°	93.4	66.5	46.6	33.7	23.2	13.6	8.1
25°	102.8	71.7	51.1	36.2	24.5	13.8	8.1
22.5°	112.0	77.3	55.6	38.8	25.7	14.1	8.1
20°	121.0	83.8	59.9	41.3	26.8	14.4	8.1
17.5°	130.1	89.9	64.3	43.8	28.0	14.6	8.1
15°	138.8	95.9	68.5	46.3	29.2	14.9	8.1
12.5°	147.1	101.6	72.6	48.7	30.3	15.1	8.1
10°	154.8	107.0	76.6	51.1	31.4	15.4	8.1
7.5°	162.0	112.2	80.4	53.3	32.4	15.6	8.1
5°	168.6	117.0	84.0	55.5	33.4	15.8	8.1
2.5°	174.6	121.6	87.5	57.6	34.3	16.0	8.1
0°	180.0	125.8	90.7	59.5	35.2	16.2	8.1
-2.5°	186.4	131.0	94.7	62.6	37.1	17.0	8.1
-5°	192.1	135.9	98.6	65.6	38.9	17.8	8.1
-7.5°	197.2	140.4	102.1	68.4	40.7	18.5	8.1
-10°	201.5	144.5	105.4	71.1	42.3	19.2	8.1
-12.5°	205.2	148.2	108.4	73.6	43.9	19.9	8.1
-15°	208.1	151.6	111.2	75.8	45.3	20.6	8.1
-17.5°	210.3	154.5	113.7	77.9	46.7	21.3	8.1
-20°	212.3	156.9	116.0	79.8	47.9	21.9	8.1



REPORT NUMBER: P731477 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-1S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	214.0	159.0	118.0	81.5	48.9	22.5	8.1
-25°	214.9	160.9	119.7	82.9	49.9	23.0	8.1
-27.5°	214.9	162.5	121.1	84.1	50.7	23.5	8.1
-30°	214.0	163.6	122.3	85.1	51.4	24.0	8.1
-32.5°	212.1	164.2	123.2	85.9	51.9	24.4	8.1
-35°	211.4	164.3	123.9	86.4	52.3	24.7	8.1
-37.5°	211.0	164.2	124.1	86.7	52.5	25.1	8.1
-40°	209.9	164.2	124.1	86.7	52.6	25.4	8.1
-42.5°	208.1	163.6	123.7	86.5	52.5	25.6	8.1
-45°	205.7	162.7	123.1	86.0	52.3	25.8	8.1
-47.5°	202.6	161.2	122.1	85.3	51.9	25.9	8.1
-50°	200.0	159.3	120.7	84.4	51.4	26.0	8.1
-52.5°	197.1	157.0	119.0	83.3	50.8	26.1	8.1
-55°	193.5	154.2	117.0	82.0	49.9	26.1	8.1
-57.5°	189.4	151.1	114.6	80.5	49.0	26.0	8.1
-60°	184.8	147.5	112.0	78.7	47.9	25.9	8.1
-62.5°	179.7	143.5	109.1	76.7	47.4	25.8	8.1
-65°	174.0	139.1	105.9	74.6	46.8	25.6	8.1
-67.5°	167.9	134.3	102.4	72.2	46.1	25.4	8.1
-70°	161.3	129.2	98.7	69.6	45.2	25.1	8.1
-72.5°	154.2	123.8	94.6	67.8	44.3	24.8	8.1
-75°	146.7	118.0	90.3	66.0	43.2	24.5	8.1
-77.5°	138.9	111.9	87.2	64.2	42.1	24.1	8.1
-80°	130.6	106.9	84.2	62.1	40.8	23.7	8.1
-82.5°	124.5	102.5	81.0	60.0	39.5	23.2	8.1
-85°	118.4	97.8	77.6	57.7	38.2	22.7	8.1
-87.5°	112.1	93.0	74.0	55.3	36.7	22.2	8.1
-90°	5.4	5.4	5.4	5.4	5.4	6.8	8.1

(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

