

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: P731227 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-70-7F-HEG**

Issue Date: 11/16/2023

Test Information

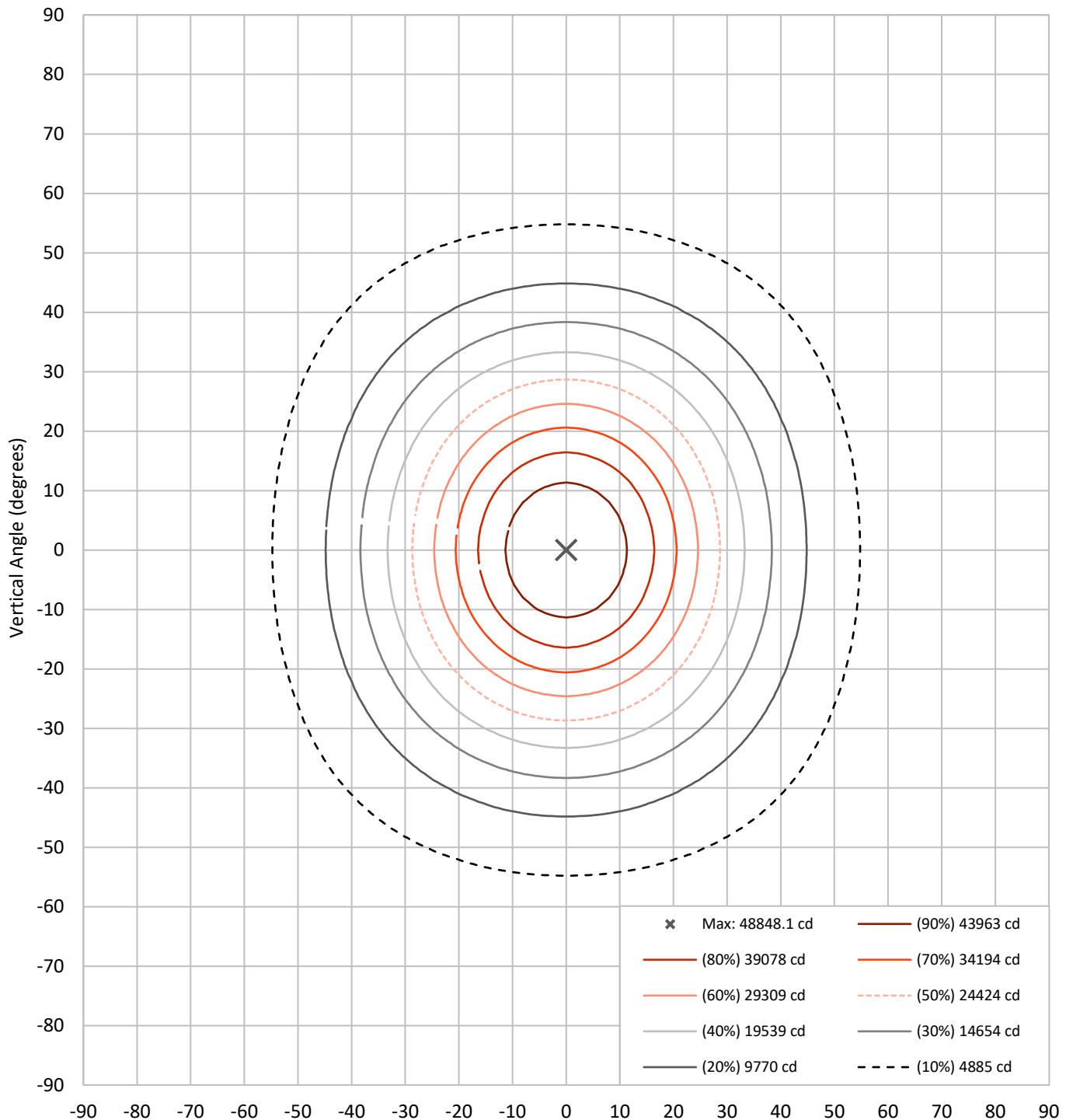
Test Method: LM-79-08
Report Number: P731227 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-08-0320N-57-70-7F-HEG
Description: EPHEBUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 7F BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	55115.5 lumens	Max Intensity:	48848.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	159.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	57.4°H x 57.4°V	Field Angle (10%):	109.4°H x 109.4°V
Beam Lumens:	27144.4 lumens	Field Lumens:	50001.6 lumens
Beam Efficiency:	49.2%	Field Efficiency:	90.7%
Input Watts (W):	345.8		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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Iso-Candela Plot





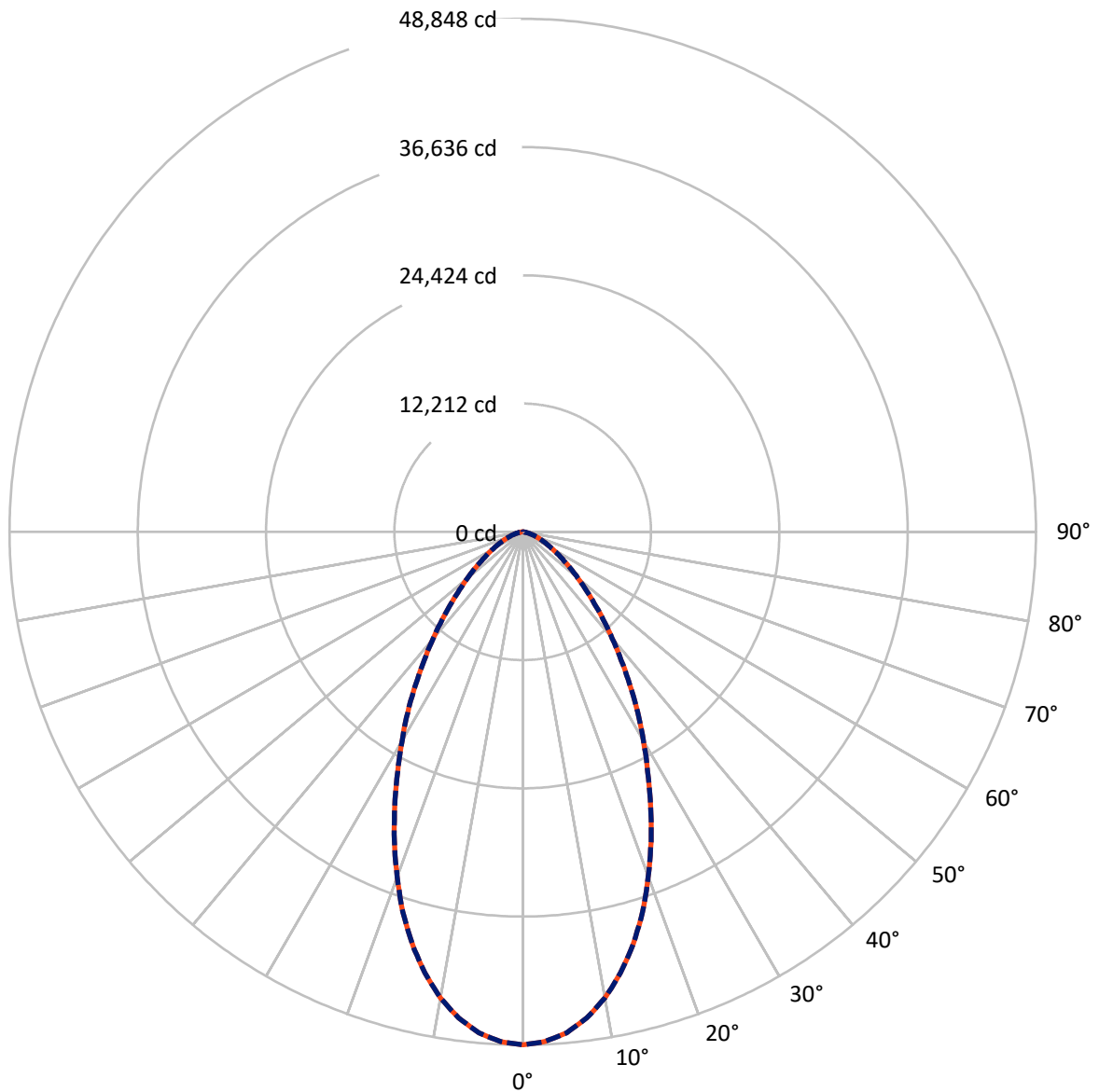
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Lumen Table

90																				
80	0.6	7.5		25.3			46.3			55.5			46.3			25.3		7.5		0.6
70																				
60	3.6	4.9	12.2	23.0	36.2	49.7	61.1	67.4	67.4	61.1	49.7	36.2	23.0	12.2	4.9	3.6				
50		9.1	22.9	43.9	71.3	102.1	129.7	146.1	146.1	129.7	102.1	71.3	43.9	22.9	9.1					
40	8.4	14.0	35.8	72.0	124.9	189.8	252.2	291.1	291.1	252.2	189.8	124.9	72.0	35.8	14.0	8.4				
30		19.1	50.4	108.2	201.0	324.2	449.5	530.3	530.3	449.5	324.2	201.0	108.2	50.4	19.1					
20	12.7	23.7	65.3	149.0	293.7	497.2	710.1	851.9	851.9	710.1	497.2	293.7	149.0	65.3	23.7	12.7				
10		27.4	78.1	186.1	382.8	667.3	979.8	1190.4	1190.4	979.8	667.3	382.8	186.1	78.1	27.4					
0	14.3	29.3	85.3	208.4	438.3	777.0	1155.2	1401.6	1401.6	1155.2	777.0	438.3	208.4	85.3	29.3	14.3				
-10		29.3	85.3	208.4	438.3	777.0	1155.2	1401.6	1401.6	1155.2	777.0	438.3	208.4	85.3	29.3					
-20	12.7	27.4	78.1	186.1	382.8	667.3	979.8	1190.4	1190.4	979.8	667.3	382.8	186.1	78.1	27.4	12.7				
-30		23.7	65.3	149.0	293.7	497.2	710.1	851.9	851.9	710.1	497.2	293.7	149.0	65.3	23.7					
-40	8.4	19.1	50.4	108.2	201.0	324.2	449.5	530.3	530.3	449.5	324.2	201.0	108.2	50.4	19.1	8.4				
-50		14.0	35.8	72.0	124.9	189.8	252.2	291.1	291.1	252.2	189.8	124.9	72.0	35.8	14.0					
-60	3.6	9.1	22.9	43.9	71.3	102.1	129.7	146.1	146.1	129.7	102.1	71.3	43.9	22.9	9.1	3.6				
-70		4.9	12.2	23.0	36.2	49.7	61.1	67.4	67.4	61.1	49.7	36.2	23.0	12.2	4.9					
-80																				
-90	0.6	7.5		25.3			46.3			55.5			46.3			25.3		7.5		0.6

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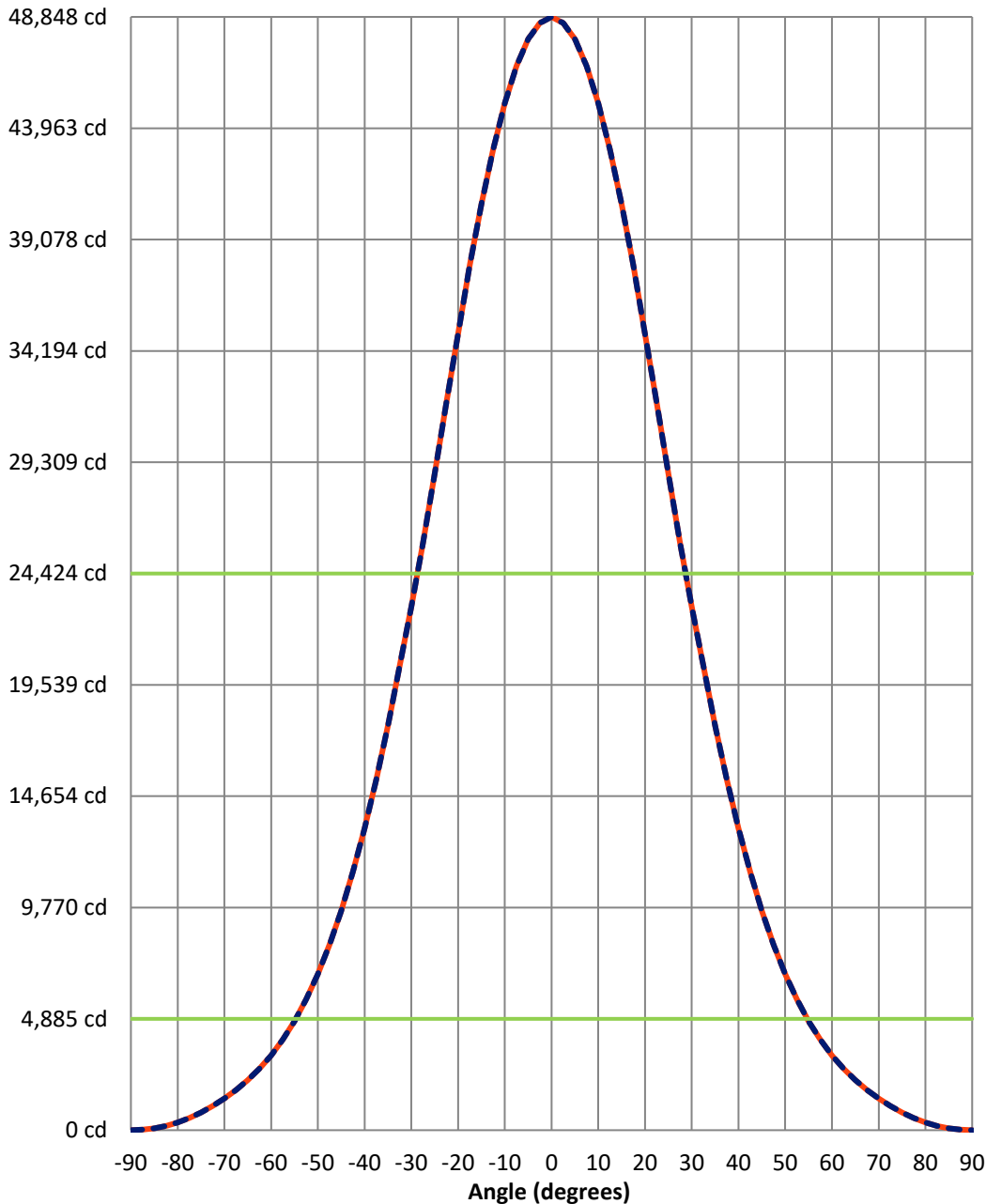
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 57.4°
V Angle: 57.4°
Lumens: 27144.4
Efficiency: 49.2%

Field:
H Angle: 109.4°
V Angle: 109.4°
Lumens: 50001.6
Efficiency: 90.7%

Spill:
Lumens: 5113.9
Efficiency: 9.3%

— 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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	1.1	2.2	3.2	4.3	5.4	6.4	7.5	8.5	9.5	10.5
85°	0.0	2.2	4.3	6.5	8.6	10.7	12.8	14.9	16.9	19.0	20.9
82.5°	0.0	3.2	6.5	9.7	12.9	16.1	19.2	22.3	26.1	33.0	39.8
80°	0.0	4.3	8.6	12.9	17.1	21.4	26.5	36.0	45.3	54.5	63.5
77.5°	0.0	5.4	10.7	16.1	21.4	29.0	40.9	52.7	64.4	75.9	91.8
75°	0.0	6.4	12.8	19.2	26.5	40.9	55.2	69.3	84.7	109.8	134.4
72.5°	0.0	7.5	14.9	22.3	36.0	52.7	69.3	89.3	118.8	147.9	176.6
70°	0.0	8.5	16.9	26.1	45.3	64.4	84.7	118.8	152.5	186.1	234.4
67.5°	0.0	9.5	19.0	33.0	54.5	75.9	109.8	147.9	186.1	241.2	295.4
65°	0.0	10.5	20.9	39.8	63.5	91.8	134.4	176.6	234.4	295.4	360.5
62.5°	0.0	11.4	22.9	46.5	72.4	111.9	158.5	214.3	281.9	351.8	436.4
60°	0.0	12.4	24.8	53.0	81.1	131.6	182.1	255.0	328.4	418.9	510.8
57.5°	0.0	13.3	29.0	59.3	96.1	150.8	215.0	294.8	384.2	484.6	594.6
55°	0.0	14.2	33.1	65.5	111.1	169.6	248.3	333.6	441.1	551.8	681.5
52.5°	0.0	15.1	37.1	71.5	125.6	189.2	280.6	380.9	496.5	627.9	766.1
50°	0.0	15.9	40.9	77.3	139.7	215.2	311.9	427.9	553.7	701.8	862.8
47.5°	0.0	16.8	44.7	83.9	153.3	240.4	343.3	473.2	617.2	773.3	958.1
45°	0.0	17.5	48.2	93.7	166.3	264.6	380.7	516.9	678.3	855.6	1050.1
42.5°	0.0	18.3	51.7	103.1	178.8	287.8	416.5	564.2	737.0	934.9	1148.9
40°	0.0	19.0	54.9	112.0	193.6	309.9	450.8	613.2	796.7	1010.8	1245.2
37.5°	0.0	19.7	58.0	120.5	210.4	330.9	483.3	659.7	860.7	1085.8	1337.0
35°	0.0	20.3	61.0	128.5	226.3	354.5	514.1	703.7	921.3	1163.8	1428.7
32.5°	0.0	20.9	63.7	136.1	241.2	378.6	544.9	745.2	978.4	1237.3	1522.1
30°	0.0	21.5	66.3	143.1	255.1	401.0	578.0	785.8	1031.8	1306.2	1609.7
27.5°	0.0	22.0	68.7	149.6	268.1	421.9	608.7	829.0	1084.0	1370.2	1691.2
25°	0.0	22.5	70.9	155.6	280.0	441.1	637.0	868.8	1136.1	1434.5	1766.9
22.5°	0.0	22.9	72.8	161.1	290.8	458.6	662.8	905.1	1183.7	1495.8	1847.1
20°	0.0	23.3	74.6	166.0	300.5	474.3	686.1	937.8	1226.5	1551.1	1919.4
17.5°	0.0	23.7	76.2	170.4	309.2	488.3	706.7	966.9	1264.6	1600.3	1983.8
15°	0.0	24.0	77.6	174.2	316.7	500.5	724.7	992.2	1297.8	1643.2	2040.0
12.5°	0.0	24.2	78.8	177.4	323.1	510.8	739.9	1013.7	1326.1	1679.6	2087.8
10°	0.0	24.4	79.8	180.1	328.4	519.3	752.5	1031.4	1349.3	1709.6	2127.1
7.5°	0.0	24.6	80.5	182.1	332.5	526.0	762.3	1045.2	1367.4	1733.1	2157.8
5°	0.0	24.7	81.1	183.6	335.4	530.7	769.3	1055.1	1380.4	1749.8	2179.8
2.5°	0.0	24.8	81.4	184.5	337.2	533.5	773.5	1061.0	1388.2	1759.9	2193.1
0°	0.0	24.8	81.5	184.8	337.8	534.5	774.9	1063.0	1390.8	1763.3	2197.5
-2.5°	0.0	24.8	81.4	184.5	337.2	533.5	773.5	1061.0	1388.2	1759.9	2193.1
-5°	0.0	24.7	81.1	183.6	335.4	530.7	769.3	1055.1	1380.4	1749.8	2179.8
-7.5°	0.0	24.6	80.5	182.1	332.5	526.0	762.3	1045.2	1367.4	1733.1	2157.8
-10°	0.0	24.4	79.8	180.1	328.4	519.3	752.5	1031.4	1349.3	1709.6	2127.1
-12.5°	0.0	24.2	78.8	177.4	323.1	510.8	739.9	1013.7	1326.1	1679.6	2087.8
-15°	0.0	24.0	77.6	174.2	316.7	500.5	724.7	992.2	1297.8	1643.2	2040.0
-17.5°	0.0	23.7	76.2	170.4	309.2	488.3	706.7	966.9	1264.6	1600.3	1983.8
-20°	0.0	23.3	74.6	166.0	300.5	474.3	686.1	937.8	1226.5	1551.1	1919.4



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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°	0.0	22.9	72.8	161.1	290.8	458.6	662.8	905.1	1183.7	1495.8	1847.1
-25°	0.0	22.5	70.9	155.6	280.0	441.1	637.0	868.8	1136.1	1434.5	1766.9
-27.5°	0.0	22.0	68.7	149.6	268.1	421.9	608.7	829.0	1084.0	1370.2	1691.2
-30°	0.0	21.5	66.3	143.1	255.1	401.0	578.0	785.8	1031.8	1306.2	1609.7
-32.5°	0.0	20.9	63.7	136.1	241.2	378.6	544.9	745.2	978.4	1237.3	1522.1
-35°	0.0	20.3	61.0	128.5	226.3	354.5	514.1	703.7	921.3	1163.8	1428.7
-37.5°	0.0	19.7	58.0	120.5	210.4	330.9	483.3	659.7	860.7	1085.8	1337.0
-40°	0.0	19.0	54.9	112.0	193.6	309.9	450.8	613.2	796.7	1010.8	1245.2
-42.5°	0.0	18.3	51.7	103.1	178.8	287.8	416.5	564.2	737.0	934.9	1148.9
-45°	0.0	17.5	48.2	93.7	166.3	264.6	380.7	516.9	678.3	855.6	1050.1
-47.5°	0.0	16.8	44.7	83.9	153.3	240.4	343.3	473.2	617.2	773.3	958.1
-50°	0.0	15.9	40.9	77.3	139.7	215.2	311.9	427.9	553.7	701.8	862.8
-52.5°	0.0	15.1	37.1	71.5	125.6	189.2	280.6	380.9	496.5	627.9	766.1
-55°	0.0	14.2	33.1	65.5	111.1	169.6	248.3	333.6	441.1	551.8	681.5
-57.5°	0.0	13.3	29.0	59.3	96.1	150.8	215.0	294.8	384.2	484.6	594.6
-60°	0.0	12.4	24.8	53.0	81.1	131.6	182.1	255.0	328.4	418.9	510.8
-62.5°	0.0	11.4	22.9	46.5	72.4	111.9	158.5	214.3	281.9	351.8	436.4
-65°	0.0	10.5	20.9	39.8	63.5	91.8	134.4	176.6	234.4	295.4	360.5
-67.5°	0.0	9.5	19.0	33.0	54.5	75.9	109.8	147.9	186.1	241.2	295.4
-70°	0.0	8.5	16.9	26.1	45.3	64.4	84.7	118.8	152.5	186.1	234.4
-72.5°	0.0	7.5	14.9	22.3	36.0	52.7	69.3	89.3	118.8	147.9	176.6
-75°	0.0	6.4	12.8	19.2	26.5	40.9	55.2	69.3	84.7	109.8	134.4
-77.5°	0.0	5.4	10.7	16.1	21.4	29.0	40.9	52.7	64.4	75.9	91.8
-80°	0.0	4.3	8.6	12.9	17.1	21.4	26.5	36.0	45.3	54.5	63.5
-82.5°	0.0	3.2	6.5	9.7	12.9	16.1	19.2	22.3	26.1	33.0	39.8
-85°	0.0	2.2	4.3	6.5	8.6	10.7	12.8	14.9	16.9	19.0	20.9
-87.5°	0.0	1.1	2.2	3.2	4.3	5.4	6.4	7.5	8.5	9.5	10.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.4	12.4	13.3	14.2	15.1	15.9	16.8	17.5	18.3	19.0	19.7
85°	22.9	24.8	29.0	33.1	37.1	40.9	44.7	48.2	51.7	54.9	58.0
82.5°	46.5	53.0	59.3	65.5	71.5	77.3	83.9	93.7	103.1	112.0	120.5
80°	72.4	81.1	96.1	111.1	125.6	139.7	153.3	166.3	178.8	193.6	210.4
77.5°	111.9	131.6	150.8	169.6	189.2	215.2	240.4	264.6	287.8	309.9	330.9
75°	158.5	182.1	215.0	248.3	280.6	311.9	343.3	380.7	416.5	450.8	483.3
72.5°	214.3	255.0	294.8	333.6	380.9	427.9	473.2	516.9	564.2	613.2	659.7
70°	281.9	328.4	384.2	441.1	496.5	553.7	617.2	678.3	737.0	796.7	860.7
67.5°	351.8	418.9	484.6	551.8	627.9	701.8	773.3	855.6	934.9	1010.8	1085.8
65°	436.4	510.8	594.6	681.5	766.1	862.8	958.1	1050.1	1148.9	1245.2	1337.0
62.5°	519.6	616.1	713.8	816.1	927.7	1036.0	1151.8	1267.1	1378.1	1497.3	1612.7
60°	616.1	724.7	842.2	966.9	1092.0	1226.5	1357.0	1495.8	1633.9	1766.9	1914.5
57.5°	713.8	842.2	980.0	1122.0	1271.8	1421.2	1582.1	1737.9	1908.7	2076.8	2243.9
55°	816.1	966.9	1122.0	1286.9	1455.9	1634.4	1815.3	2011.2	2200.9	2411.2	2612.5
52.5°	927.7	1092.0	1271.8	1455.9	1651.9	1856.3	2073.3	2297.2	2532.3	2767.7	3017.6
50°	1036.0	1226.5	1421.2	1634.4	1856.3	2094.1	2345.7	2605.7	2881.2	3160.6	3461.8
47.5°	1151.8	1357.0	1582.1	1815.3	2073.3	2345.7	2630.3	2938.4	3247.3	3603.7	3952.6
45°	1267.1	1495.8	1737.9	2011.2	2297.2	2605.7	2938.4	3276.3	3675.2	4073.1	4497.8
42.5°	1378.1	1633.9	1908.7	2200.9	2532.3	2881.2	3247.3	3675.2	4114.6	4582.2	5086.4
40°	1497.3	1766.9	2076.8	2411.2	2767.7	3160.6	3603.7	4073.1	4582.2	5138.4	5715.6
37.5°	1612.7	1914.5	2243.9	2612.5	3017.6	3461.8	3952.6	4497.8	5086.4	5715.6	6409.1
35°	1722.3	2054.8	2420.7	2820.2	3256.0	3773.5	4330.4	4931.5	5609.9	6347.2	7123.1
32.5°	1836.1	2187.4	2588.1	3029.4	3526.6	4082.8	4693.6	5400.3	6162.8	6975.2	7881.6
30°	1949.3	2329.7	2752.4	3226.4	3786.0	4402.3	5090.7	5859.3	6706.5	7655.2	8672.6
27.5°	2054.8	2464.0	2921.5	3439.5	4036.0	4702.0	5480.1	6337.6	7283.3	8320.9	9458.1
25°	2152.2	2588.1	3078.0	3647.0	4293.3	5022.1	5856.8	6784.0	7845.4	9010.5	10290.2
22.5°	2248.1	2702.1	3221.4	3837.3	4529.7	5331.2	6238.8	7256.2	8398.0	9655.3	11089.2
20°	2341.1	2820.2	3367.3	4014.4	4744.2	5612.1	6586.6	7696.8	8941.9	10337.0	11874.5
17.5°	2423.9	2925.5	3508.0	4190.2	4968.3	5880.6	6907.1	8092.6	9431.4	10951.9	12609.0
15°	2496.2	3017.6	3631.1	4344.1	5171.0	6132.9	7228.3	8484.1	9902.8	11512.3	13262.6
12.5°	2557.8	3096.0	3736.1	4475.6	5344.2	6348.7	7503.5	8826.0	10334.4	12030.3	13896.7
10°	2608.5	3160.6	3822.6	4583.9	5487.2	6526.9	7731.1	9109.2	10692.4	12460.8	14424.7
7.5°	2648.1	3211.1	3890.2	4668.7	5599.1	6666.7	7909.6	9331.6	10973.9	12799.8	14841.4
5°	2676.4	3247.3	3938.8	4729.6	5679.5	6767.0	8038.0	9491.6	11176.7	13044.4	15142.4
2.5°	2693.5	3269.0	3968.0	4766.2	5727.8	6827.5	8115.4	9588.1	11299.1	13192.1	15324.4
0°	2699.2	3276.3	3977.7	4778.4	5744.0	6847.7	8141.2	9620.4	11340.0	13241.5	15385.3
-2.5°	2693.5	3269.0	3968.0	4766.2	5727.8	6827.5	8115.4	9588.1	11299.1	13192.1	15324.4
-5°	2676.4	3247.3	3938.8	4729.6	5679.5	6767.0	8038.0	9491.6	11176.7	13044.4	15142.4
-7.5°	2648.1	3211.1	3890.2	4668.7	5599.1	6666.7	7909.6	9331.6	10973.9	12799.8	14841.4
-10°	2608.5	3160.6	3822.6	4583.9	5487.2	6526.9	7731.1	9109.2	10692.4	12460.8	14424.7
-12.5°	2557.8	3096.0	3736.1	4475.6	5344.2	6348.7	7503.5	8826.0	10334.4	12030.3	13896.7
-15°	2496.2	3017.6	3631.1	4344.1	5171.0	6132.9	7228.3	8484.1	9902.8	11512.3	13262.6
-17.5°	2423.9	2925.5	3508.0	4190.2	4968.3	5880.6	6907.1	8092.6	9431.4	10951.9	12609.0
-20°	2341.1	2820.2	3367.3	4014.4	4744.2	5612.1	6586.6	7696.8	8941.9	10337.0	11874.5



REPORT NUMBER: P731227 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-7F-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2248.1	2702.1	3221.4	3837.3	4529.7	5331.2	6238.8	7256.2	8398.0	9655.3	11089.2
-25°	2152.2	2588.1	3078.0	3647.0	4293.3	5022.1	5856.8	6784.0	7845.4	9010.5	10290.2
-27.5°	2054.8	2464.0	2921.5	3439.5	4036.0	4702.0	5480.1	6337.6	7283.3	8320.9	9458.1
-30°	1949.3	2329.7	2752.4	3226.4	3786.0	4402.3	5090.7	5859.3	6706.5	7655.2	8672.6
-32.5°	1836.1	2187.4	2588.1	3029.4	3526.6	4082.8	4693.6	5400.3	6162.8	6975.2	7881.6
-35°	1722.3	2054.8	2420.7	2820.2	3256.0	3773.5	4330.4	4931.5	5609.9	6347.2	7123.1
-37.5°	1612.7	1914.5	2243.9	2612.5	3017.6	3461.8	3952.6	4497.8	5086.4	5715.6	6409.1
-40°	1497.3	1766.9	2076.8	2411.2	2767.7	3160.6	3603.7	4073.1	4582.2	5138.4	5715.6
-42.5°	1378.1	1633.9	1908.7	2200.9	2532.3	2881.2	3247.3	3675.2	4114.6	4582.2	5086.4
-45°	1267.1	1495.8	1737.9	2011.2	2297.2	2605.7	2938.4	3276.3	3675.2	4073.1	4497.8
-47.5°	1151.8	1357.0	1582.1	1815.3	2073.3	2345.7	2630.3	2938.4	3247.3	3603.7	3952.6
-50°	1036.0	1226.5	1421.2	1634.4	1856.3	2094.1	2345.7	2605.7	2881.2	3160.6	3461.8
-52.5°	927.7	1092.0	1271.8	1455.9	1651.9	1856.3	2073.3	2297.2	2532.3	2767.7	3017.6
-55°	816.1	966.9	1122.0	1286.9	1455.9	1634.4	1815.3	2011.2	2200.9	2411.2	2612.5
-57.5°	713.8	842.2	980.0	1122.0	1271.8	1421.2	1582.1	1737.9	1908.7	2076.8	2243.9
-60°	616.1	724.7	842.2	966.9	1092.0	1226.5	1357.0	1495.8	1633.9	1766.9	1914.5
-62.5°	519.6	616.1	713.8	816.1	927.7	1036.0	1151.8	1267.1	1378.1	1497.3	1612.7
-65°	436.4	510.8	594.6	681.5	766.1	862.8	958.1	1050.1	1148.9	1245.2	1337.0
-67.5°	351.8	418.9	484.6	551.8	627.9	701.8	773.3	855.6	934.9	1010.8	1085.8
-70°	281.9	328.4	384.2	441.1	496.5	553.7	617.2	678.3	737.0	796.7	860.7
-72.5°	214.3	255.0	294.8	333.6	380.9	427.9	473.2	516.9	564.2	613.2	659.7
-75°	158.5	182.1	215.0	248.3	280.6	311.9	343.3	380.7	416.5	450.8	483.3
-77.5°	111.9	131.6	150.8	169.6	189.2	215.2	240.4	264.6	287.8	309.9	330.9
-80°	72.4	81.1	96.1	111.1	125.6	139.7	153.3	166.3	178.8	193.6	210.4
-82.5°	46.5	53.0	59.3	65.5	71.5	77.3	83.9	93.7	103.1	112.0	120.5
-85°	22.9	24.8	29.0	33.1	37.1	40.9	44.7	48.2	51.7	54.9	58.0
-87.5°	11.4	12.4	13.3	14.2	15.1	15.9	16.8	17.5	18.3	19.0	19.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731227 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-7F-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.3	20.9	21.5	22.0	22.5	22.9	23.3	23.7	24.0	24.2	24.4
85°	61.0	63.7	66.3	68.7	70.9	72.8	74.6	76.2	77.6	78.8	79.8
82.5°	128.5	136.1	143.1	149.6	155.6	161.1	166.0	170.4	174.2	177.4	180.1
80°	226.3	241.2	255.1	268.1	280.0	290.8	300.5	309.2	316.7	323.1	328.4
77.5°	354.5	378.6	401.0	421.9	441.1	458.6	474.3	488.3	500.5	510.8	519.3
75°	514.1	544.9	578.0	608.7	637.0	662.8	686.1	706.7	724.7	739.9	752.5
72.5°	703.7	745.2	785.8	829.0	868.8	905.1	937.8	966.9	992.2	1013.7	1031.4
70°	921.3	978.4	1031.8	1084.0	1136.1	1183.7	1226.5	1264.6	1297.8	1326.1	1349.3
67.5°	1163.8	1237.3	1306.2	1370.2	1434.5	1495.8	1551.1	1600.3	1643.2	1679.6	1709.6
65°	1428.7	1522.1	1609.7	1691.2	1766.9	1847.1	1919.4	1983.8	2040.0	2087.8	2127.1
62.5°	1722.3	1836.1	1949.3	2054.8	2152.2	2248.1	2341.1	2423.9	2496.2	2557.8	2608.5
60°	2054.8	2187.4	2329.7	2464.0	2588.1	2702.1	2820.2	2925.5	3017.6	3096.0	3160.6
57.5°	2420.7	2588.1	2752.4	2921.5	3078.0	3221.4	3367.3	3508.0	3631.1	3736.1	3822.6
55°	2820.2	3029.4	3226.4	3439.5	3647.0	3837.3	4014.4	4190.2	4344.1	4475.6	4583.9
52.5°	3256.0	3526.6	3786.0	4036.0	4293.3	4529.7	4744.2	4968.3	5171.0	5344.2	5487.2
50°	3773.5	4082.8	4402.3	4702.0	5022.1	5331.2	5612.1	5880.6	6132.9	6348.7	6526.9
47.5°	4330.4	4693.6	5090.7	5480.1	5856.8	6238.8	6586.6	6907.1	7228.3	7503.5	7731.1
45°	4931.5	5400.3	5859.3	6337.6	6784.0	7256.2	7696.8	8092.6	8484.1	8826.0	9109.2
42.5°	5609.9	6162.8	6706.5	7283.3	7845.4	8398.0	8941.9	9431.4	9902.8	10334.4	10692.4
40°	6347.2	6975.2	7655.2	8320.9	9010.5	9655.3	10337.0	10951.9	11512.3	12030.3	12460.8
37.5°	7123.1	7881.6	8672.6	9458.1	10290.2	11089.2	11874.5	12609.0	13262.6	13896.7	14424.7
35°	7957.6	8850.4	9748.8	10722.2	11672.1	12619.9	13525.8	14419.9	15215.1	15957.5	16592.1
32.5°	8850.4	9855.3	10940.9	12044.2	13128.3	14259.1	15318.8	16377.0	17327.9	18196.5	18961.1
30°	9748.8	10940.9	12169.3	13404.6	14707.9	15990.8	17248.0	18465.8	19604.7	20597.8	21430.2
27.5°	10722.2	12044.2	13404.6	14859.1	16335.8	17786.1	19278.4	20649.2	21880.4	22960.4	23942.5
25°	11672.1	13128.3	14707.9	16335.8	17985.4	19692.6	21291.4	22767.3	24192.8	25464.1	26610.9
22.5°	12619.9	14259.1	15990.8	17786.1	19692.6	21508.5	23240.7	24957.3	26589.3	28101.6	29409.3
20°	13525.8	15318.8	17248.0	19278.4	21291.4	23240.7	25216.6	27181.4	29038.7	30737.3	32195.8
17.5°	14419.9	16377.0	18465.8	20649.2	22767.3	24957.3	27181.4	29363.3	31425.8	33253.5	34837.4
15°	15215.1	17327.9	19604.7	21880.4	24192.8	26589.3	29038.7	31425.8	33616.3	35615.9	37391.6
12.5°	15957.5	18196.5	20597.8	22960.4	25464.1	28101.6	30737.3	33253.5	35615.9	37822.8	39602.9
10°	16592.1	18961.1	21430.2	23942.5	26610.9	29409.3	32195.8	34837.4	37391.6	39602.9	41544.1
7.5°	17094.0	19567.6	22092.6	24727.6	27553.1	30480.0	33356.6	36147.8	38774.3	41092.8	43040.5
5°	17457.2	20007.4	22574.4	25300.6	28243.8	31269.4	34219.0	37131.9	39779.2	42168.0	44159.8
2.5°	17677.1	20274.0	22867.0	25649.5	28665.7	31753.7	34751.1	37744.1	40412.0	42809.1	44829.5
0°	17750.7	20363.4	22965.2	25766.7	28807.6	31917.0	34931.1	37952.1	40628.4	43020.6	45060.1
-2.5°	17677.1	20274.0	22867.0	25649.5	28665.7	31753.7	34751.1	37744.1	40412.0	42809.1	44829.5
-5°	17457.2	20007.4	22574.4	25300.6	28243.8	31269.4	34219.0	37131.9	39779.2	42168.0	44159.8
-7.5°	17094.0	19567.6	22092.6	24727.6	27553.1	30480.0	33356.6	36147.8	38774.3	41092.8	43040.5
-10°	16592.1	18961.1	21430.2	23942.5	26610.9	29409.3	32195.8	34837.4	37391.6	39602.9	41544.1
-12.5°	15957.5	18196.5	20597.8	22960.4	25464.1	28101.6	30737.3	33253.5	35615.9	37822.8	39602.9
-15°	15215.1	17327.9	19604.7	21880.4	24192.8	26589.3	29038.7	31425.8	33616.3	35615.9	37391.6
-17.5°	14419.9	16377.0	18465.8	20649.2	22767.3	24957.3	27181.4	29363.3	31425.8	33253.5	34837.4
-20°	13525.8	15318.8	17248.0	19278.4	21291.4	23240.7	25216.6	27181.4	29038.7	30737.3	32195.8



REPORT NUMBER: P731227 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-7F-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	12619.9	14259.1	15990.8	17786.1	19692.6	21508.5	23240.7	24957.3	26589.3	28101.6	29409.3
-25°	11672.1	13128.3	14707.9	16335.8	17985.4	19692.6	21291.4	22767.3	24192.8	25464.1	26610.9
-27.5°	10722.2	12044.2	13404.6	14859.1	16335.8	17786.1	19278.4	20649.2	21880.4	22960.4	23942.5
-30°	9748.8	10940.9	12169.3	13404.6	14707.9	15990.8	17248.0	18465.8	19604.7	20597.8	21430.2
-32.5°	8850.4	9855.3	10940.9	12044.2	13128.3	14259.1	15318.8	16377.0	17327.9	18196.5	18961.1
-35°	7957.6	8850.4	9748.8	10722.2	11672.1	12619.9	13525.8	14419.9	15215.1	15957.5	16592.1
-37.5°	7123.1	7881.6	8672.6	9458.1	10290.2	11089.2	11874.5	12609.0	13262.6	13896.7	14424.7
-40°	6347.2	6975.2	7655.2	8320.9	9010.5	9655.3	10337.0	10951.9	11512.3	12030.3	12460.8
-42.5°	5609.9	6162.8	6706.5	7283.3	7845.4	8398.0	8941.9	9431.4	9902.8	10334.4	10692.4
-45°	4931.5	5400.3	5859.3	6337.6	6784.0	7256.2	7696.8	8092.6	8484.1	8826.0	9109.2
-47.5°	4330.4	4693.6	5090.7	5480.1	5856.8	6238.8	6586.6	6907.1	7228.3	7503.5	7731.1
-50°	3773.5	4082.8	4402.3	4702.0	5022.1	5331.2	5612.1	5880.6	6132.9	6348.7	6526.9
-52.5°	3256.0	3526.6	3786.0	4036.0	4293.3	4529.7	4744.2	4968.3	5171.0	5344.2	5487.2
-55°	2820.2	3029.4	3226.4	3439.5	3647.0	3837.3	4014.4	4190.2	4344.1	4475.6	4583.9
-57.5°	2420.7	2588.1	2752.4	2921.5	3078.0	3221.4	3367.3	3508.0	3631.1	3736.1	3822.6
-60°	2054.8	2187.4	2329.7	2464.0	2588.1	2702.1	2820.2	2925.5	3017.6	3096.0	3160.6
-62.5°	1722.3	1836.1	1949.3	2054.8	2152.2	2248.1	2341.1	2423.9	2496.2	2557.8	2608.5
-65°	1428.7	1522.1	1609.7	1691.2	1766.9	1847.1	1919.4	1983.8	2040.0	2087.8	2127.1
-67.5°	1163.8	1237.3	1306.2	1370.2	1434.5	1495.8	1551.1	1600.3	1643.2	1679.6	1709.6
-70°	921.3	978.4	1031.8	1084.0	1136.1	1183.7	1226.5	1264.6	1297.8	1326.1	1349.3
-72.5°	703.7	745.2	785.8	829.0	868.8	905.1	937.8	966.9	992.2	1013.7	1031.4
-75°	514.1	544.9	578.0	608.7	637.0	662.8	686.1	706.7	724.7	739.9	752.5
-77.5°	354.5	378.6	401.0	421.9	441.1	458.6	474.3	488.3	500.5	510.8	519.3
-80°	226.3	241.2	255.1	268.1	280.0	290.8	300.5	309.2	316.7	323.1	328.4
-82.5°	128.5	136.1	143.1	149.6	155.6	161.1	166.0	170.4	174.2	177.4	180.1
-85°	61.0	63.7	66.3	68.7	70.9	72.8	74.6	76.2	77.6	78.8	79.8
-87.5°	20.3	20.9	21.5	22.0	22.5	22.9	23.3	23.7	24.0	24.2	24.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731227 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-7F-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.6	24.7	24.8	24.8	24.8	24.7	24.6	24.4	24.2	24.0	23.7
85°	80.5	81.1	81.4	81.5	81.4	81.1	80.5	79.8	78.8	77.6	76.2
82.5°	182.1	183.6	184.5	184.8	184.5	183.6	182.1	180.1	177.4	174.2	170.4
80°	332.5	335.4	337.2	337.8	337.2	335.4	332.5	328.4	323.1	316.7	309.2
77.5°	526.0	530.7	533.5	534.5	533.5	530.7	526.0	519.3	510.8	500.5	488.3
75°	762.3	769.3	773.5	774.9	773.5	769.3	762.3	752.5	739.9	724.7	706.7
72.5°	1045.2	1055.1	1061.0	1063.0	1061.0	1055.1	1045.2	1031.4	1013.7	992.2	966.9
70°	1367.4	1380.4	1388.2	1390.8	1388.2	1380.4	1367.4	1349.3	1326.1	1297.8	1264.6
67.5°	1733.1	1749.8	1759.9	1763.3	1759.9	1749.8	1733.1	1709.6	1679.6	1643.2	1600.3
65°	2157.8	2179.8	2193.1	2197.5	2193.1	2179.8	2157.8	2127.1	2087.8	2040.0	1983.8
62.5°	2648.1	2676.4	2693.5	2699.2	2693.5	2676.4	2648.1	2608.5	2557.8	2496.2	2423.9
60°	3211.1	3247.3	3269.0	3276.3	3269.0	3247.3	3211.1	3160.6	3096.0	3017.6	2925.5
57.5°	3890.2	3938.8	3968.0	3977.7	3968.0	3938.8	3890.2	3822.6	3736.1	3631.1	3508.0
55°	4668.7	4729.6	4766.2	4778.4	4766.2	4729.6	4668.7	4583.9	4475.6	4344.1	4190.2
52.5°	5599.1	5679.5	5727.8	5744.0	5727.8	5679.5	5599.1	5487.2	5344.2	5171.0	4968.3
50°	6666.7	6767.0	6827.5	6847.7	6827.5	6767.0	6666.7	6526.9	6348.7	6132.9	5880.6
47.5°	7909.6	8038.0	8115.4	8141.2	8115.4	8038.0	7909.6	7731.1	7503.5	7228.3	6907.1
45°	9331.6	9491.6	9588.1	9620.4	9588.1	9491.6	9331.6	9109.2	8826.0	8484.1	8092.6
42.5°	10973.9	11176.7	11299.1	11340.0	11299.1	11176.7	10973.9	10692.4	10334.4	9902.8	9431.4
40°	12799.8	13044.4	13192.1	13241.5	13192.1	13044.4	12799.8	12460.8	12030.3	11512.3	10951.9
37.5°	14841.4	15142.4	15324.4	15385.3	15324.4	15142.4	14841.4	14424.7	13896.7	13262.6	12609.0
35°	17094.0	17457.2	17677.1	17750.7	17677.1	17457.2	17094.0	16592.1	15957.5	15215.1	14419.9
32.5°	19567.6	20007.4	20274.0	20363.4	20274.0	20007.4	19567.6	18961.1	18196.5	17327.9	16377.0
30°	22092.6	22574.4	22867.0	22965.2	22867.0	22574.4	22092.6	21430.2	20597.8	19604.7	18465.8
27.5°	24727.6	25300.6	25649.5	25766.7	25649.5	25300.6	24727.6	23942.5	22960.4	21880.4	20649.2
25°	27553.1	28243.8	28665.7	28807.6	28665.7	28243.8	27553.1	26610.9	25464.1	24192.8	22767.3
22.5°	30480.0	31269.4	31753.7	31917.0	31753.7	31269.4	30480.0	29409.3	28101.6	26589.3	24957.3
20°	33356.6	34219.0	34751.1	34931.1	34751.1	34219.0	33356.6	32195.8	30737.3	29038.7	27181.4
17.5°	36147.8	37131.9	37744.1	37952.1	37744.1	37131.9	36147.8	34837.4	33253.5	31425.8	29363.3
15°	38774.3	39779.2	40412.0	40628.4	40412.0	39779.2	38774.3	37391.6	35615.9	33616.3	31425.8
12.5°	41092.8	42168.0	42809.1	43020.6	42809.1	42168.0	41092.8	39602.9	37822.8	35615.9	33253.5
10°	43040.5	44159.8	44829.5	45060.1	44829.5	44159.8	43040.5	41544.1	39602.9	37391.6	34837.4
7.5°	44612.4	45752.4	46460.8	46688.9	46460.8	45752.4	44612.4	43040.5	41092.8	38774.3	36147.8
5°	45752.4	46933.9	47619.7	47873.5	47619.7	46933.9	45752.4	44159.8	42168.0	39779.2	37131.9
2.5°	46460.8	47619.7	48334.0	48576.4	48334.0	47619.7	46460.8	44829.5	42809.1	40412.0	37744.1
0°	46688.9	47873.5	48576.4	48848.1	48576.4	47873.5	46688.9	45060.1	43020.6	40628.4	37952.1
-2.5°	46460.8	47619.7	48334.0	48576.4	48334.0	47619.7	46460.8	44829.5	42809.1	40412.0	37744.1
-5°	45752.4	46933.9	47619.7	47873.5	47619.7	46933.9	45752.4	44159.8	42168.0	39779.2	37131.9
-7.5°	44612.4	45752.4	46460.8	46688.9	46460.8	45752.4	44612.4	43040.5	41092.8	38774.3	36147.8
-10°	43040.5	44159.8	44829.5	45060.1	44829.5	44159.8	43040.5	41544.1	39602.9	37391.6	34837.4
-12.5°	41092.8	42168.0	42809.1	43020.6	42809.1	42168.0	41092.8	39602.9	37822.8	35615.9	33253.5
-15°	38774.3	39779.2	40412.0	40628.4	40412.0	39779.2	38774.3	37391.6	35615.9	33616.3	31425.8
-17.5°	36147.8	37131.9	37744.1	37952.1	37744.1	37131.9	36147.8	34837.4	33253.5	31425.8	29363.3
-20°	33356.6	34219.0	34751.1	34931.1	34751.1	34219.0	33356.6	32195.8	30737.3	29038.7	27181.4



REPORT NUMBER: P731227 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-7F-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	30480.0	31269.4	31753.7	31917.0	31753.7	31269.4	30480.0	29409.3	28101.6	26589.3	24957.3
-25°	27553.1	28243.8	28665.7	28807.6	28665.7	28243.8	27553.1	26610.9	25464.1	24192.8	22767.3
-27.5°	24727.6	25300.6	25649.5	25766.7	25649.5	25300.6	24727.6	23942.5	22960.4	21880.4	20649.2
-30°	22092.6	22574.4	22867.0	22965.2	22867.0	22574.4	22092.6	21430.2	20597.8	19604.7	18465.8
-32.5°	19567.6	20007.4	20274.0	20363.4	20274.0	20007.4	19567.6	18961.1	18196.5	17327.9	16377.0
-35°	17094.0	17457.2	17677.1	17750.7	17677.1	17457.2	17094.0	16592.1	15957.5	15215.1	14419.9
-37.5°	14841.4	15142.4	15324.4	15385.3	15324.4	15142.4	14841.4	14424.7	13896.7	13262.6	12609.0
-40°	12799.8	13044.4	13192.1	13241.5	13192.1	13044.4	12799.8	12460.8	12030.3	11512.3	10951.9
-42.5°	10973.9	11176.7	11299.1	11340.0	11299.1	11176.7	10973.9	10692.4	10334.4	9902.8	9431.4
-45°	9331.6	9491.6	9588.1	9620.4	9588.1	9491.6	9331.6	9109.2	8826.0	8484.1	8092.6
-47.5°	7909.6	8038.0	8115.4	8141.2	8115.4	8038.0	7909.6	7731.1	7503.5	7228.3	6907.1
-50°	6666.7	6767.0	6827.5	6847.7	6827.5	6767.0	6666.7	6526.9	6348.7	6132.9	5880.6
-52.5°	5599.1	5679.5	5727.8	5744.0	5727.8	5679.5	5599.1	5487.2	5344.2	5171.0	4968.3
-55°	4668.7	4729.6	4766.2	4778.4	4766.2	4729.6	4668.7	4583.9	4475.6	4344.1	4190.2
-57.5°	3890.2	3938.8	3968.0	3977.7	3968.0	3938.8	3890.2	3822.6	3736.1	3631.1	3508.0
-60°	3211.1	3247.3	3269.0	3276.3	3269.0	3247.3	3211.1	3160.6	3096.0	3017.6	2925.5
-62.5°	2648.1	2676.4	2693.5	2699.2	2693.5	2676.4	2648.1	2608.5	2557.8	2496.2	2423.9
-65°	2157.8	2179.8	2193.1	2197.5	2193.1	2179.8	2157.8	2127.1	2087.8	2040.0	1983.8
-67.5°	1733.1	1749.8	1759.9	1763.3	1759.9	1749.8	1733.1	1709.6	1679.6	1643.2	1600.3
-70°	1367.4	1380.4	1388.2	1390.8	1388.2	1380.4	1367.4	1349.3	1326.1	1297.8	1264.6
-72.5°	1045.2	1055.1	1061.0	1063.0	1061.0	1055.1	1045.2	1031.4	1013.7	992.2	966.9
-75°	762.3	769.3	773.5	774.9	773.5	769.3	762.3	752.5	739.9	724.7	706.7
-77.5°	526.0	530.7	533.5	534.5	533.5	530.7	526.0	519.3	510.8	500.5	488.3
-80°	332.5	335.4	337.2	337.8	337.2	335.4	332.5	328.4	323.1	316.7	309.2
-82.5°	182.1	183.6	184.5	184.8	184.5	183.6	182.1	180.1	177.4	174.2	170.4
-85°	80.5	81.1	81.4	81.5	81.4	81.1	80.5	79.8	78.8	77.6	76.2
-87.5°	24.6	24.7	24.8	24.8	24.8	24.7	24.6	24.4	24.2	24.0	23.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.3	22.9	22.5	22.0	21.5	20.9	20.3	19.7	19.0	18.3	17.5
85°	74.6	72.8	70.9	68.7	66.3	63.7	61.0	58.0	54.9	51.7	48.2
82.5°	166.0	161.1	155.6	149.6	143.1	136.1	128.5	120.5	112.0	103.1	93.7
80°	300.5	290.8	280.0	268.1	255.1	241.2	226.3	210.4	193.6	178.8	166.3
77.5°	474.3	458.6	441.1	421.9	401.0	378.6	354.5	330.9	309.9	287.8	264.6
75°	686.1	662.8	637.0	608.7	578.0	544.9	514.1	483.3	450.8	416.5	380.7
72.5°	937.8	905.1	868.8	829.0	785.8	745.2	703.7	659.7	613.2	564.2	516.9
70°	1226.5	1183.7	1136.1	1084.0	1031.8	978.4	921.3	860.7	796.7	737.0	678.3
67.5°	1551.1	1495.8	1434.5	1370.2	1306.2	1237.3	1163.8	1085.8	1010.8	934.9	855.6
65°	1919.4	1847.1	1766.9	1691.2	1609.7	1522.1	1428.7	1337.0	1245.2	1148.9	1050.1
62.5°	2341.1	2248.1	2152.2	2054.8	1949.3	1836.1	1722.3	1612.7	1497.3	1378.1	1267.1
60°	2820.2	2702.1	2588.1	2464.0	2329.7	2187.4	2054.8	1914.5	1766.9	1633.9	1495.8
57.5°	3367.3	3221.4	3078.0	2921.5	2752.4	2588.1	2420.7	2243.9	2076.8	1908.7	1737.9
55°	4014.4	3837.3	3647.0	3439.5	3226.4	3029.4	2820.2	2612.5	2411.2	2200.9	2011.2
52.5°	4744.2	4529.7	4293.3	4036.0	3786.0	3526.6	3256.0	3017.6	2767.7	2532.3	2297.2
50°	5612.1	5331.2	5022.1	4702.0	4402.3	4082.8	3773.5	3461.8	3160.6	2881.2	2605.7
47.5°	6586.6	6238.8	5856.8	5480.1	5090.7	4693.6	4330.4	3952.6	3603.7	3247.3	2938.4
45°	7696.8	7256.2	6784.0	6337.6	5859.3	5400.3	4931.5	4497.8	4073.1	3675.2	3276.3
42.5°	8941.9	8398.0	7845.4	7283.3	6706.5	6162.8	5609.9	5086.4	4582.2	4114.6	3675.2
40°	10337.0	9655.3	9010.5	8320.9	7655.2	6975.2	6347.2	5715.6	5138.4	4582.2	4073.1
37.5°	11874.5	11089.2	10290.2	9458.1	8672.6	7881.6	7123.1	6409.1	5715.6	5086.4	4497.8
35°	13525.8	12619.9	11672.1	10722.2	9748.8	8850.4	7957.6	7123.1	6347.2	5609.9	4931.5
32.5°	15318.8	14259.1	13128.3	12044.2	10940.9	9855.3	8850.4	7881.6	6975.2	6162.8	5400.3
30°	17248.0	15990.8	14707.9	13404.6	12169.3	10940.9	9748.8	8672.6	7655.2	6706.5	5859.3
27.5°	19278.4	17786.1	16335.8	14859.1	13404.6	12044.2	10722.2	9458.1	8320.9	7283.3	6337.6
25°	21291.4	19692.6	17985.4	16335.8	14707.9	13128.3	11672.1	10290.2	9010.5	7845.4	6784.0
22.5°	23240.7	21508.5	19692.6	17786.1	15990.8	14259.1	12619.9	11089.2	9655.3	8398.0	7256.2
20°	25216.6	23240.7	21291.4	19278.4	17248.0	15318.8	13525.8	11874.5	10337.0	8941.9	7696.8
17.5°	27181.4	24957.3	22767.3	20649.2	18465.8	16377.0	14419.9	12609.0	10951.9	9431.4	8092.6
15°	29038.7	26589.3	24192.8	21880.4	19604.7	17327.9	15215.1	13262.6	11512.3	9902.8	8484.1
12.5°	30737.3	28101.6	25464.1	22960.4	20597.8	18196.5	15957.5	13896.7	12030.3	10334.4	8826.0
10°	32195.8	29409.3	26610.9	23942.5	21430.2	18961.1	16592.1	14424.7	12460.8	10692.4	9109.2
7.5°	33356.6	30480.0	27553.1	24727.6	22092.6	19567.6	17094.0	14841.4	12799.8	10973.9	9331.6
5°	34219.0	31269.4	28243.8	25300.6	22574.4	20007.4	17457.2	15142.4	13044.4	11176.7	9491.6
2.5°	34751.1	31753.7	28665.7	25649.5	22867.0	20274.0	17677.1	15324.4	13192.1	11299.1	9588.1
0°	34931.1	31917.0	28807.6	25766.7	22965.2	20363.4	17750.7	15385.3	13241.5	11340.0	9620.4
-2.5°	34751.1	31753.7	28665.7	25649.5	22867.0	20274.0	17677.1	15324.4	13192.1	11299.1	9588.1
-5°	34219.0	31269.4	28243.8	25300.6	22574.4	20007.4	17457.2	15142.4	13044.4	11176.7	9491.6
-7.5°	33356.6	30480.0	27553.1	24727.6	22092.6	19567.6	17094.0	14841.4	12799.8	10973.9	9331.6
-10°	32195.8	29409.3	26610.9	23942.5	21430.2	18961.1	16592.1	14424.7	12460.8	10692.4	9109.2
-12.5°	30737.3	28101.6	25464.1	22960.4	20597.8	18196.5	15957.5	13896.7	12030.3	10334.4	8826.0
-15°	29038.7	26589.3	24192.8	21880.4	19604.7	17327.9	15215.1	13262.6	11512.3	9902.8	8484.1
-17.5°	27181.4	24957.3	22767.3	20649.2	18465.8	16377.0	14419.9	12609.0	10951.9	9431.4	8092.6
-20°	25216.6	23240.7	21291.4	19278.4	17248.0	15318.8	13525.8	11874.5	10337.0	8941.9	7696.8



REPORT NUMBER: P731227 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-7F-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	23240.7	21508.5	19692.6	17786.1	15990.8	14259.1	12619.9	11089.2	9655.3	8398.0	7256.2
-25°	21291.4	19692.6	17985.4	16335.8	14707.9	13128.3	11672.1	10290.2	9010.5	7845.4	6784.0
-27.5°	19278.4	17786.1	16335.8	14859.1	13404.6	12044.2	10722.2	9458.1	8320.9	7283.3	6337.6
-30°	17248.0	15990.8	14707.9	13404.6	12169.3	10940.9	9748.8	8672.6	7655.2	6706.5	5859.3
-32.5°	15318.8	14259.1	13128.3	12044.2	10940.9	9855.3	8850.4	7881.6	6975.2	6162.8	5400.3
-35°	13525.8	12619.9	11672.1	10722.2	9748.8	8850.4	7957.6	7123.1	6347.2	5609.9	4931.5
-37.5°	11874.5	11089.2	10290.2	9458.1	8672.6	7881.6	7123.1	6409.1	5715.6	5086.4	4497.8
-40°	10337.0	9655.3	9010.5	8320.9	7655.2	6975.2	6347.2	5715.6	5138.4	4582.2	4073.1
-42.5°	8941.9	8398.0	7845.4	7283.3	6706.5	6162.8	5609.9	5086.4	4582.2	4114.6	3675.2
-45°	7696.8	7256.2	6784.0	6337.6	5859.3	5400.3	4931.5	4497.8	4073.1	3675.2	3276.3
-47.5°	6586.6	6238.8	5856.8	5480.1	5090.7	4693.6	4330.4	3952.6	3603.7	3247.3	2938.4
-50°	5612.1	5331.2	5022.1	4702.0	4402.3	4082.8	3773.5	3461.8	3160.6	2881.2	2605.7
-52.5°	4744.2	4529.7	4293.3	4036.0	3786.0	3526.6	3256.0	3017.6	2767.7	2532.3	2297.2
-55°	4014.4	3837.3	3647.0	3439.5	3226.4	3029.4	2820.2	2612.5	2411.2	2200.9	2011.2
-57.5°	3367.3	3221.4	3078.0	2921.5	2752.4	2588.1	2420.7	2243.9	2076.8	1908.7	1737.9
-60°	2820.2	2702.1	2588.1	2464.0	2329.7	2187.4	2054.8	1914.5	1766.9	1633.9	1495.8
-62.5°	2341.1	2248.1	2152.2	2054.8	1949.3	1836.1	1722.3	1612.7	1497.3	1378.1	1267.1
-65°	1919.4	1847.1	1766.9	1691.2	1609.7	1522.1	1428.7	1337.0	1245.2	1148.9	1050.1
-67.5°	1551.1	1495.8	1434.5	1370.2	1306.2	1237.3	1163.8	1085.8	1010.8	934.9	855.6
-70°	1226.5	1183.7	1136.1	1084.0	1031.8	978.4	921.3	860.7	796.7	737.0	678.3
-72.5°	937.8	905.1	868.8	829.0	785.8	745.2	703.7	659.7	613.2	564.2	516.9
-75°	686.1	662.8	637.0	608.7	578.0	544.9	514.1	483.3	450.8	416.5	380.7
-77.5°	474.3	458.6	441.1	421.9	401.0	378.6	354.5	330.9	309.9	287.8	264.6
-80°	300.5	290.8	280.0	268.1	255.1	241.2	226.3	210.4	193.6	178.8	166.3
-82.5°	166.0	161.1	155.6	149.6	143.1	136.1	128.5	120.5	112.0	103.1	93.7
-85°	74.6	72.8	70.9	68.7	66.3	63.7	61.0	58.0	54.9	51.7	48.2
-87.5°	23.3	22.9	22.5	22.0	21.5	20.9	20.3	19.7	19.0	18.3	17.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731227 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-7F-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.8	15.9	15.1	14.2	13.3	12.4	11.4	10.5	9.5	8.5	7.5
85°	44.7	40.9	37.1	33.1	29.0	24.8	22.9	20.9	19.0	16.9	14.9
82.5°	83.9	77.3	71.5	65.5	59.3	53.0	46.5	39.8	33.0	26.1	22.3
80°	153.3	139.7	125.6	111.1	96.1	81.1	72.4	63.5	54.5	45.3	36.0
77.5°	240.4	215.2	189.2	169.6	150.8	131.6	111.9	91.8	75.9	64.4	52.7
75°	343.3	311.9	280.6	248.3	215.0	182.1	158.5	134.4	109.8	84.7	69.3
72.5°	473.2	427.9	380.9	333.6	294.8	255.0	214.3	176.6	147.9	118.8	89.3
70°	617.2	553.7	496.5	441.1	384.2	328.4	281.9	234.4	186.1	152.5	118.8
67.5°	773.3	701.8	627.9	551.8	484.6	418.9	351.8	295.4	241.2	186.1	147.9
65°	958.1	862.8	766.1	681.5	594.6	510.8	436.4	360.5	295.4	234.4	176.6
62.5°	1151.8	1036.0	927.7	816.1	713.8	616.1	519.6	436.4	351.8	281.9	214.3
60°	1357.0	1226.5	1092.0	966.9	842.2	724.7	616.1	510.8	418.9	328.4	255.0
57.5°	1582.1	1421.2	1271.8	1122.0	980.0	842.2	713.8	594.6	484.6	384.2	294.8
55°	1815.3	1634.4	1455.9	1286.9	1122.0	966.9	816.1	681.5	551.8	441.1	333.6
52.5°	2073.3	1856.3	1651.9	1455.9	1271.8	1092.0	927.7	766.1	627.9	496.5	380.9
50°	2345.7	2094.1	1856.3	1634.4	1421.2	1226.5	1036.0	862.8	701.8	553.7	427.9
47.5°	2630.3	2345.7	2073.3	1815.3	1582.1	1357.0	1151.8	958.1	773.3	617.2	473.2
45°	2938.4	2605.7	2297.2	2011.2	1737.9	1495.8	1267.1	1050.1	855.6	678.3	516.9
42.5°	3247.3	2881.2	2532.3	2200.9	1908.7	1633.9	1378.1	1148.9	934.9	737.0	564.2
40°	3603.7	3160.6	2767.7	2411.2	2076.8	1766.9	1497.3	1245.2	1010.8	796.7	613.2
37.5°	3952.6	3461.8	3017.6	2612.5	2243.9	1914.5	1612.7	1337.0	1085.8	860.7	659.7
35°	4330.4	3773.5	3256.0	2820.2	2420.7	2054.8	1722.3	1428.7	1163.8	921.3	703.7
32.5°	4693.6	4082.8	3526.6	3029.4	2588.1	2187.4	1836.1	1522.1	1237.3	978.4	745.2
30°	5090.7	4402.3	3786.0	3226.4	2752.4	2329.7	1949.3	1609.7	1306.2	1031.8	785.8
27.5°	5480.1	4702.0	4036.0	3439.5	2921.5	2464.0	2054.8	1691.2	1370.2	1084.0	829.0
25°	5856.8	5022.1	4293.3	3647.0	3078.0	2588.1	2152.2	1766.9	1434.5	1136.1	868.8
22.5°	6238.8	5331.2	4529.7	3837.3	3221.4	2702.1	2248.1	1847.1	1495.8	1183.7	905.1
20°	6586.6	5612.1	4744.2	4014.4	3367.3	2820.2	2341.1	1919.4	1551.1	1226.5	937.8
17.5°	6907.1	5880.6	4968.3	4190.2	3508.0	2925.5	2423.9	1983.8	1600.3	1264.6	966.9
15°	7228.3	6132.9	5171.0	4344.1	3631.1	3017.6	2496.2	2040.0	1643.2	1297.8	992.2
12.5°	7503.5	6348.7	5344.2	4475.6	3736.1	3096.0	2557.8	2087.8	1679.6	1326.1	1013.7
10°	7731.1	6526.9	5487.2	4583.9	3822.6	3160.6	2608.5	2127.1	1709.6	1349.3	1031.4
7.5°	7909.6	6666.7	5599.1	4668.7	3890.2	3211.1	2648.1	2157.8	1733.1	1367.4	1045.2
5°	8038.0	6767.0	5679.5	4729.6	3938.8	3247.3	2676.4	2179.8	1749.8	1380.4	1055.1
2.5°	8115.4	6827.5	5727.8	4766.2	3968.0	3269.0	2693.5	2193.1	1759.9	1388.2	1061.0
0°	8141.2	6847.7	5744.0	4778.4	3977.7	3276.3	2699.2	2197.5	1763.3	1390.8	1063.0
-2.5°	8115.4	6827.5	5727.8	4766.2	3968.0	3269.0	2693.5	2193.1	1759.9	1388.2	1061.0
-5°	8038.0	6767.0	5679.5	4729.6	3938.8	3247.3	2676.4	2179.8	1749.8	1380.4	1055.1
-7.5°	7909.6	6666.7	5599.1	4668.7	3890.2	3211.1	2648.1	2157.8	1733.1	1367.4	1045.2
-10°	7731.1	6526.9	5487.2	4583.9	3822.6	3160.6	2608.5	2127.1	1709.6	1349.3	1031.4
-12.5°	7503.5	6348.7	5344.2	4475.6	3736.1	3096.0	2557.8	2087.8	1679.6	1326.1	1013.7
-15°	7228.3	6132.9	5171.0	4344.1	3631.1	3017.6	2496.2	2040.0	1643.2	1297.8	992.2
-17.5°	6907.1	5880.6	4968.3	4190.2	3508.0	2925.5	2423.9	1983.8	1600.3	1264.6	966.9
-20°	6586.6	5612.1	4744.2	4014.4	3367.3	2820.2	2341.1	1919.4	1551.1	1226.5	937.8



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	6238.8	5331.2	4529.7	3837.3	3221.4	2702.1	2248.1	1847.1	1495.8	1183.7	905.1
-25°	5856.8	5022.1	4293.3	3647.0	3078.0	2588.1	2152.2	1766.9	1434.5	1136.1	868.8
-27.5°	5480.1	4702.0	4036.0	3439.5	2921.5	2464.0	2054.8	1691.2	1370.2	1084.0	829.0
-30°	5090.7	4402.3	3786.0	3226.4	2752.4	2329.7	1949.3	1609.7	1306.2	1031.8	785.8
-32.5°	4693.6	4082.8	3526.6	3029.4	2588.1	2187.4	1836.1	1522.1	1237.3	978.4	745.2
-35°	4330.4	3773.5	3256.0	2820.2	2420.7	2054.8	1722.3	1428.7	1163.8	921.3	703.7
-37.5°	3952.6	3461.8	3017.6	2612.5	2243.9	1914.5	1612.7	1337.0	1085.8	860.7	659.7
-40°	3603.7	3160.6	2767.7	2411.2	2076.8	1766.9	1497.3	1245.2	1010.8	796.7	613.2
-42.5°	3247.3	2881.2	2532.3	2200.9	1908.7	1633.9	1378.1	1148.9	934.9	737.0	564.2
-45°	2938.4	2605.7	2297.2	2011.2	1737.9	1495.8	1267.1	1050.1	855.6	678.3	516.9
-47.5°	2630.3	2345.7	2073.3	1815.3	1582.1	1357.0	1151.8	958.1	773.3	617.2	473.2
-50°	2345.7	2094.1	1856.3	1634.4	1421.2	1226.5	1036.0	862.8	701.8	553.7	427.9
-52.5°	2073.3	1856.3	1651.9	1455.9	1271.8	1092.0	927.7	766.1	627.9	496.5	380.9
-55°	1815.3	1634.4	1455.9	1286.9	1122.0	966.9	816.1	681.5	551.8	441.1	333.6
-57.5°	1582.1	1421.2	1271.8	1122.0	980.0	842.2	713.8	594.6	484.6	384.2	294.8
-60°	1357.0	1226.5	1092.0	966.9	842.2	724.7	616.1	510.8	418.9	328.4	255.0
-62.5°	1151.8	1036.0	927.7	816.1	713.8	616.1	519.6	436.4	351.8	281.9	214.3
-65°	958.1	862.8	766.1	681.5	594.6	510.8	436.4	360.5	295.4	234.4	176.6
-67.5°	773.3	701.8	627.9	551.8	484.6	418.9	351.8	295.4	241.2	186.1	147.9
-70°	617.2	553.7	496.5	441.1	384.2	328.4	281.9	234.4	186.1	152.5	118.8
-72.5°	473.2	427.9	380.9	333.6	294.8	255.0	214.3	176.6	147.9	118.8	89.3
-75°	343.3	311.9	280.6	248.3	215.0	182.1	158.5	134.4	109.8	84.7	69.3
-77.5°	240.4	215.2	189.2	169.6	150.8	131.6	111.9	91.8	75.9	64.4	52.7
-80°	153.3	139.7	125.6	111.1	96.1	81.1	72.4	63.5	54.5	45.3	36.0
-82.5°	83.9	77.3	71.5	65.5	59.3	53.0	46.5	39.8	33.0	26.1	22.3
-85°	44.7	40.9	37.1	33.1	29.0	24.8	22.9	20.9	19.0	16.9	14.9
-87.5°	16.8	15.9	15.1	14.2	13.3	12.4	11.4	10.5	9.5	8.5	7.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	5.4	4.3	3.2	2.2	1.1	0.0
85°	12.8	10.7	8.6	6.5	4.3	2.2	0.0
82.5°	19.2	16.1	12.9	9.7	6.5	3.2	0.0
80°	26.5	21.4	17.1	12.9	8.6	4.3	0.0
77.5°	40.9	29.0	21.4	16.1	10.7	5.4	0.0
75°	55.2	40.9	26.5	19.2	12.8	6.4	0.0
72.5°	69.3	52.7	36.0	22.3	14.9	7.5	0.0
70°	84.7	64.4	45.3	26.1	16.9	8.5	0.0
67.5°	109.8	75.9	54.5	33.0	19.0	9.5	0.0
65°	134.4	91.8	63.5	39.8	20.9	10.5	0.0
62.5°	158.5	111.9	72.4	46.5	22.9	11.4	0.0
60°	182.1	131.6	81.1	53.0	24.8	12.4	0.0
57.5°	215.0	150.8	96.1	59.3	29.0	13.3	0.0
55°	248.3	169.6	111.1	65.5	33.1	14.2	0.0
52.5°	280.6	189.2	125.6	71.5	37.1	15.1	0.0
50°	311.9	215.2	139.7	77.3	40.9	15.9	0.0
47.5°	343.3	240.4	153.3	83.9	44.7	16.8	0.0
45°	380.7	264.6	166.3	93.7	48.2	17.5	0.0
42.5°	416.5	287.8	178.8	103.1	51.7	18.3	0.0
40°	450.8	309.9	193.6	112.0	54.9	19.0	0.0
37.5°	483.3	330.9	210.4	120.5	58.0	19.7	0.0
35°	514.1	354.5	226.3	128.5	61.0	20.3	0.0
32.5°	544.9	378.6	241.2	136.1	63.7	20.9	0.0
30°	578.0	401.0	255.1	143.1	66.3	21.5	0.0
27.5°	608.7	421.9	268.1	149.6	68.7	22.0	0.0
25°	637.0	441.1	280.0	155.6	70.9	22.5	0.0
22.5°	662.8	458.6	290.8	161.1	72.8	22.9	0.0
20°	686.1	474.3	300.5	166.0	74.6	23.3	0.0
17.5°	706.7	488.3	309.2	170.4	76.2	23.7	0.0
15°	724.7	500.5	316.7	174.2	77.6	24.0	0.0
12.5°	739.9	510.8	323.1	177.4	78.8	24.2	0.0
10°	752.5	519.3	328.4	180.1	79.8	24.4	0.0
7.5°	762.3	526.0	332.5	182.1	80.5	24.6	0.0
5°	769.3	530.7	335.4	183.6	81.1	24.7	0.0
2.5°	773.5	533.5	337.2	184.5	81.4	24.8	0.0
0°	774.9	534.5	337.8	184.8	81.5	24.8	0.0
-2.5°	773.5	533.5	337.2	184.5	81.4	24.8	0.0
-5°	769.3	530.7	335.4	183.6	81.1	24.7	0.0
-7.5°	762.3	526.0	332.5	182.1	80.5	24.6	0.0
-10°	752.5	519.3	328.4	180.1	79.8	24.4	0.0
-12.5°	739.9	510.8	323.1	177.4	78.8	24.2	0.0
-15°	724.7	500.5	316.7	174.2	77.6	24.0	0.0
-17.5°	706.7	488.3	309.2	170.4	76.2	23.7	0.0
-20°	686.1	474.3	300.5	166.0	74.6	23.3	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	662.8	458.6	290.8	161.1	72.8	22.9	0.0
-25°	637.0	441.1	280.0	155.6	70.9	22.5	0.0
-27.5°	608.7	421.9	268.1	149.6	68.7	22.0	0.0
-30°	578.0	401.0	255.1	143.1	66.3	21.5	0.0
-32.5°	544.9	378.6	241.2	136.1	63.7	20.9	0.0
-35°	514.1	354.5	226.3	128.5	61.0	20.3	0.0
-37.5°	483.3	330.9	210.4	120.5	58.0	19.7	0.0
-40°	450.8	309.9	193.6	112.0	54.9	19.0	0.0
-42.5°	416.5	287.8	178.8	103.1	51.7	18.3	0.0
-45°	380.7	264.6	166.3	93.7	48.2	17.5	0.0
-47.5°	343.3	240.4	153.3	83.9	44.7	16.8	0.0
-50°	311.9	215.2	139.7	77.3	40.9	15.9	0.0
-52.5°	280.6	189.2	125.6	71.5	37.1	15.1	0.0
-55°	248.3	169.6	111.1	65.5	33.1	14.2	0.0
-57.5°	215.0	150.8	96.1	59.3	29.0	13.3	0.0
-60°	182.1	131.6	81.1	53.0	24.8	12.4	0.0
-62.5°	158.5	111.9	72.4	46.5	22.9	11.4	0.0
-65°	134.4	91.8	63.5	39.8	20.9	10.5	0.0
-67.5°	109.8	75.9	54.5	33.0	19.0	9.5	0.0
-70°	84.7	64.4	45.3	26.1	16.9	8.5	0.0
-72.5°	69.3	52.7	36.0	22.3	14.9	7.5	0.0
-75°	55.2	40.9	26.5	19.2	12.8	6.4	0.0
-77.5°	40.9	29.0	21.4	16.1	10.7	5.4	0.0
-80°	26.5	21.4	17.1	12.9	8.6	4.3	0.0
-82.5°	19.2	16.1	12.9	9.7	6.5	3.2	0.0
-85°	12.8	10.7	8.6	6.5	4.3	2.2	0.0
-87.5°	6.4	5.4	4.3	3.2	2.2	1.1	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(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

