

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: P731209 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-80-7F-HEG**

Issue Date: 11/16/2023

Test Information

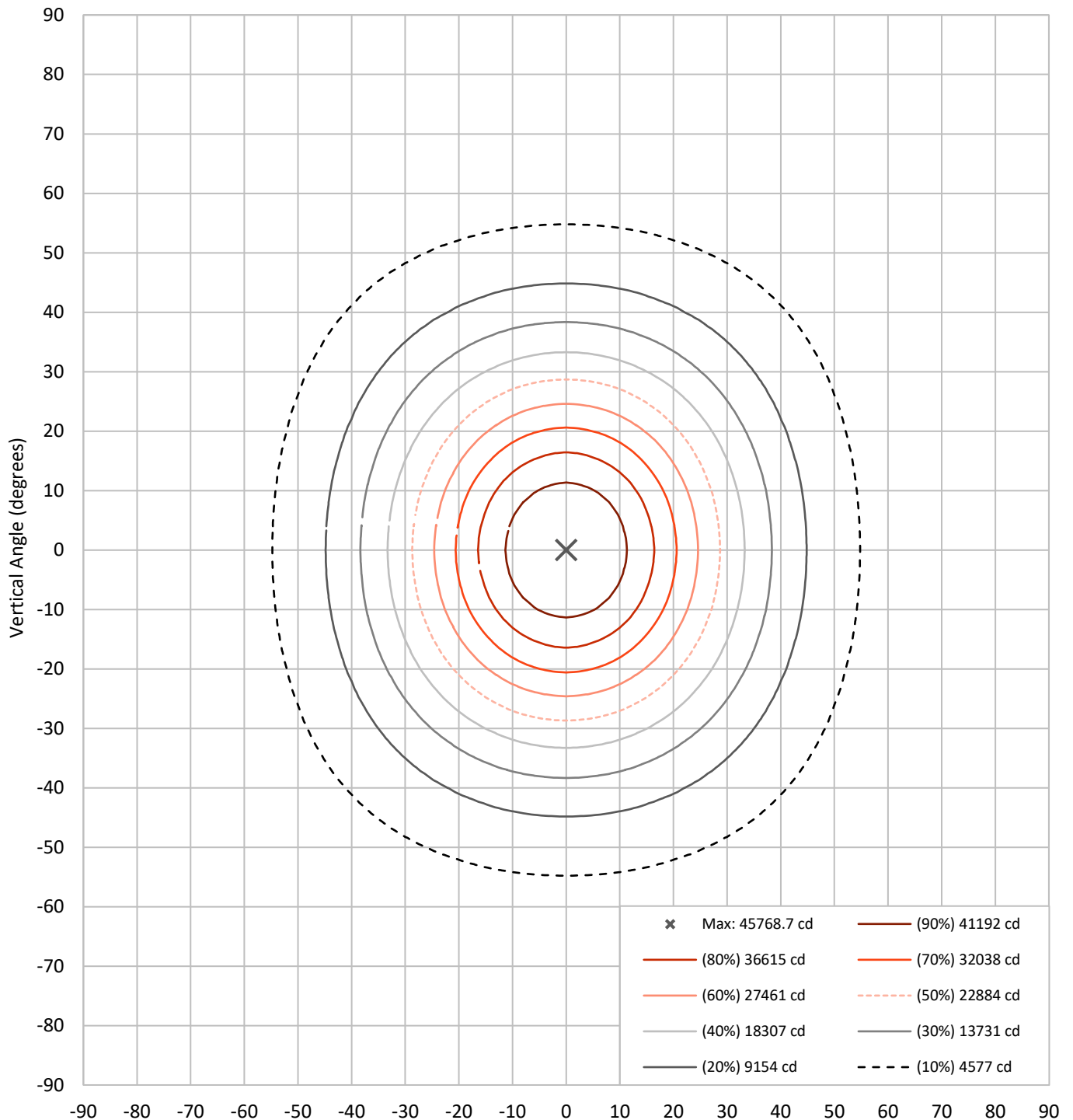
Test Method: LM-79-08
Report Number: P731209 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-08-0320N-40-80-7F-HEG
Description: EPHEBUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 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:	51641 lumens	Max Intensity:	45768.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	149.3 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:	25433.2 lumens	Field Lumens:	46849.5 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





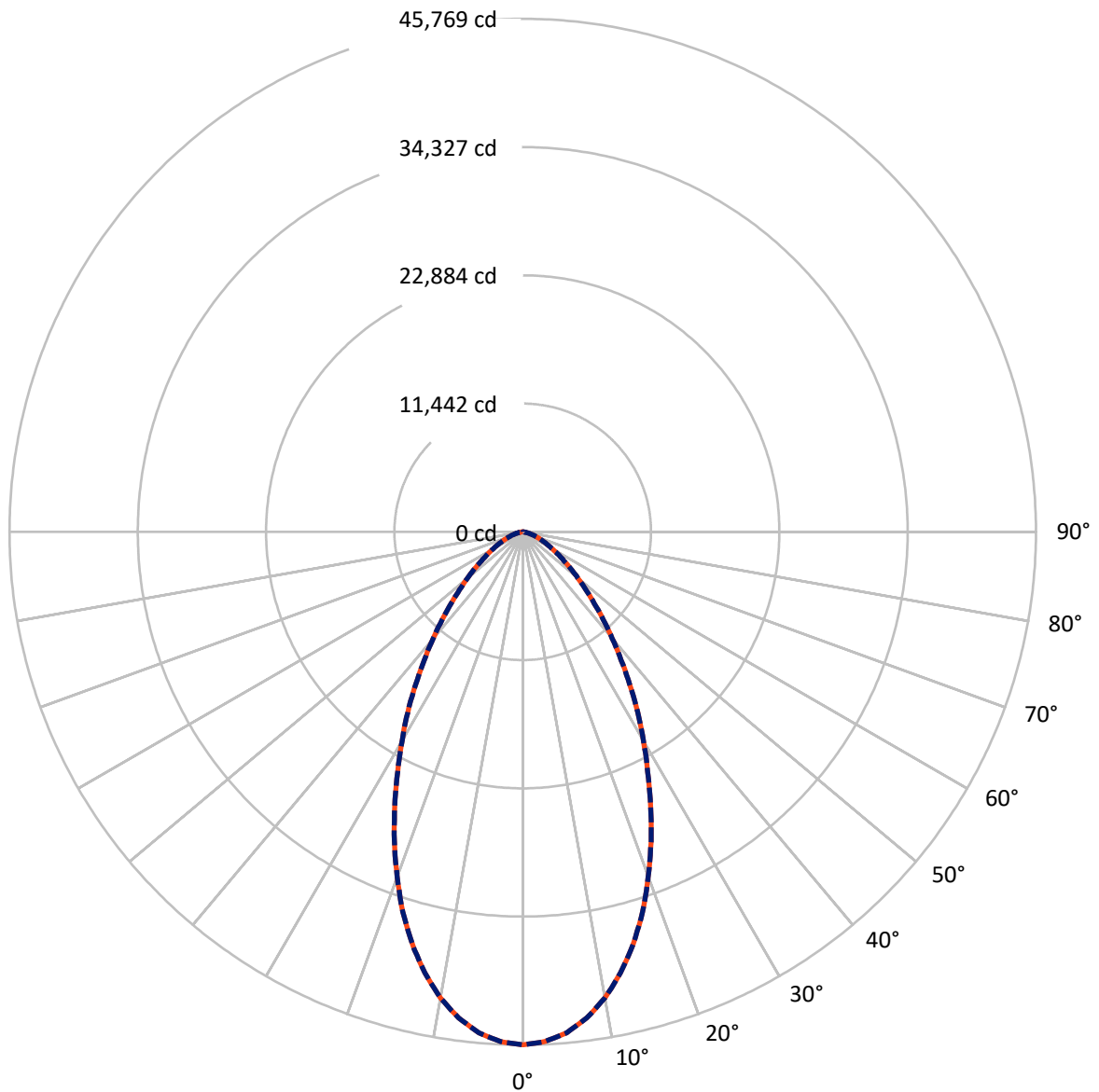
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Lumen Table

90															90				
80	0.6	7.0		23.7		43.4		52.0		43.4		23.7		7.0	0.6				
70															70				
60	3.4	4.6	11.4	21.6	33.9	46.6	57.2	63.1	63.1	57.2	46.6	33.9	21.6	11.4	4.6	3.4			
50		8.5	21.4	41.1	66.9	95.6	121.6	136.9	136.9	121.6	95.6	66.9	41.1	21.4	8.5				
40	7.8	13.1	33.5	67.5	117.0	177.8	236.3	272.7	272.7	236.3	177.8	117.0	67.5	33.5	13.1	7.8			
30		17.9	47.2	101.4	188.3	303.7	421.2	496.9	496.9	421.2	303.7	188.3	101.4	47.2	17.9				
20	11.9	22.2	61.2	139.6	275.2	465.9	665.3	798.2	798.2	665.3	465.9	275.2	139.6	61.2	22.2	11.9			
10		25.6	73.1	174.4	358.7	625.3	918.0	1115.4	1115.4	918.0	625.3	358.7	174.4	73.1	25.6				
0	13.4	27.4	79.9	195.3	410.7	728.0	1082.4	1313.2	1313.2	1082.4	728.0	410.7	195.3	79.9	27.4	13.4			
-10		27.4	79.9	195.3	410.7	728.0	1082.4	1313.2	1313.2	1082.4	728.0	410.7	195.3	79.9	27.4				
-20	11.9	25.6	73.1	174.4	358.7	625.3	918.0	1115.4	1115.4	918.0	625.3	358.7	174.4	73.1	25.6	11.9			
-30		22.2	61.2	139.6	275.2	465.9	665.3	798.2	798.2	665.3	465.9	275.2	139.6	61.2	22.2				
-40	7.8	17.9	47.2	101.4	188.3	303.7	421.2	496.9	496.9	421.2	303.7	188.3	101.4	47.2	17.9	7.8			
-50		13.1	33.5	67.5	117.0	177.8	236.3	272.7	272.7	236.3	177.8	117.0	67.5	33.5	13.1				
-60	3.4	8.5	21.4	41.1	66.9	95.6	121.6	136.9	136.9	121.6	95.6	66.9	41.1	21.4	8.5	3.4			
-70		4.6	11.4	21.6	33.9	46.6	57.2	63.1	63.1	57.2	46.6	33.9	21.6	11.4	4.6				
-80															-80				
-90	0.6	7.0		23.7		43.4		52.0		43.4		23.7		7.0	0.6				
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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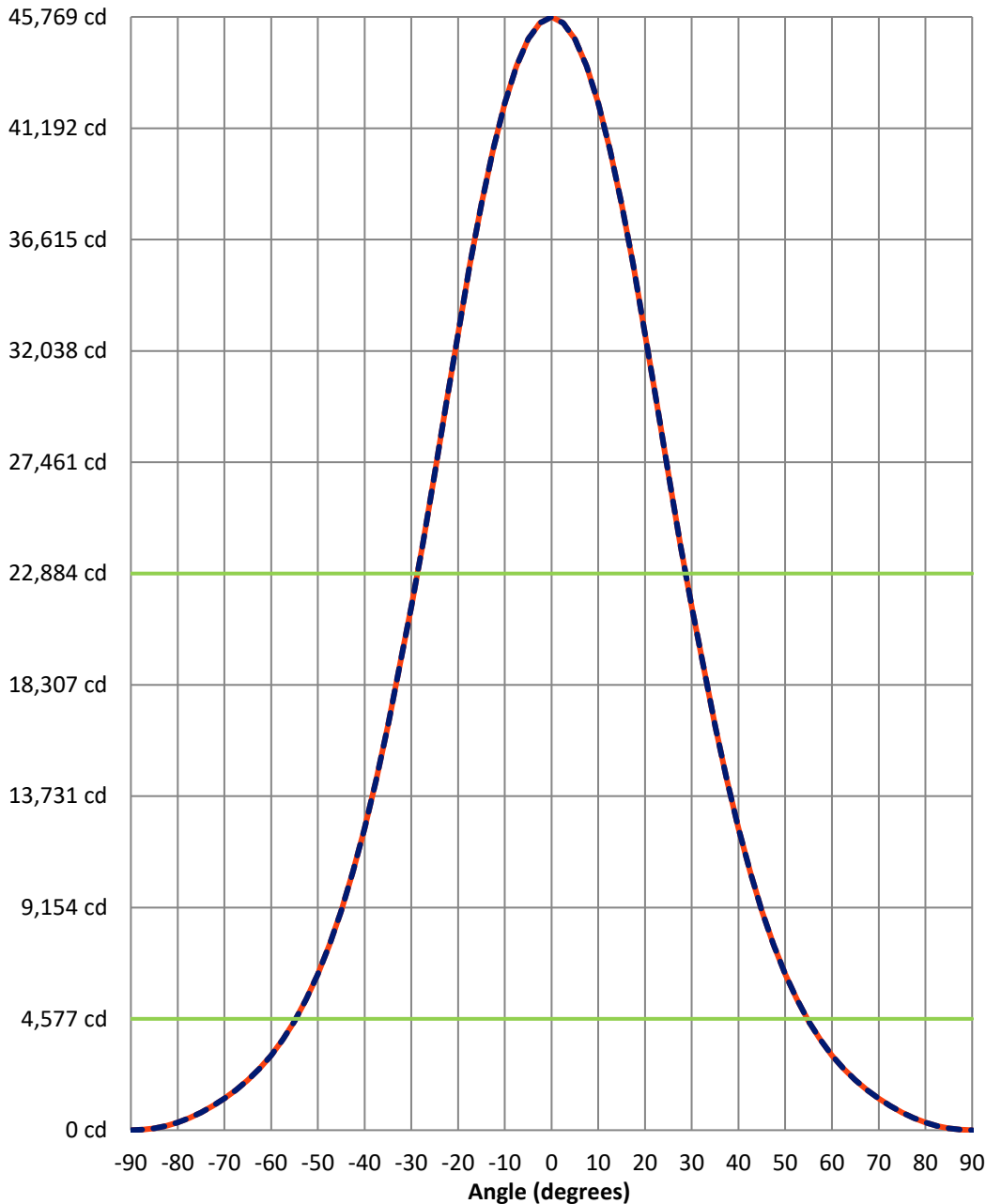
Luminous Intensity Polar Plot



— 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: 25433.2
 Efficiency: 49.2%

Field:
 H Angle: 109.4°
 V Angle: 109.4°
 Lumens: 46849.5
 Efficiency: 90.7%

Spill:
 Lumens: 4791.5
 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	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	8.9	9.8
85°	0.0	2.0	4.1	6.1	8.1	10.1	12.0	14.0	15.9	17.8	19.7
82.5°	0.0	3.0	6.1	9.1	12.1	15.1	18.0	21.0	24.5	31.0	37.3
80°	0.0	4.0	8.1	12.1	16.1	20.1	24.9	33.8	42.5	51.1	59.5
77.5°	0.0	5.0	10.1	15.1	20.1	27.2	38.4	49.4	60.3	71.0	85.9
75°	0.0	6.0	12.0	18.0	24.9	38.4	51.7	64.9	79.3	102.8	125.8
72.5°	0.0	7.0	14.0	21.0	33.8	49.4	64.9	83.6	111.3	138.6	165.4
70°	0.0	8.0	15.9	24.5	42.5	60.3	79.3	111.3	142.8	174.3	219.6
67.5°	0.0	8.9	17.8	31.0	51.1	71.0	102.8	138.6	174.3	225.9	276.8
65°	0.0	9.8	19.7	37.3	59.5	85.9	125.8	165.4	219.6	276.8	337.8
62.5°	0.0	10.8	21.5	43.6	67.8	104.8	148.5	200.7	264.1	329.6	408.9
60°	0.0	11.6	23.3	49.6	75.9	123.3	170.6	238.9	307.7	392.5	478.6
57.5°	0.0	12.5	27.2	55.6	90.0	141.3	201.4	276.2	359.9	454.0	557.1
55°	0.0	13.4	31.0	61.3	104.0	158.8	232.6	312.6	413.3	517.0	638.5
52.5°	0.0	14.2	34.8	66.9	117.7	177.2	262.9	356.9	465.2	588.3	717.7
50°	0.0	15.0	38.4	72.3	130.8	201.6	292.2	400.9	518.8	657.5	808.4
47.5°	0.0	15.7	41.9	78.6	143.6	225.2	321.7	443.4	578.3	724.5	897.7
45°	0.0	16.5	45.2	87.7	155.8	247.9	356.7	484.3	635.5	801.6	983.9
42.5°	0.0	17.2	48.4	96.5	167.5	269.6	390.3	528.6	690.5	875.9	1076.4
40°	0.0	17.8	51.5	104.9	181.4	290.3	422.3	574.5	746.4	947.1	1166.7
37.5°	0.0	18.5	54.4	112.8	197.1	310.0	452.8	618.1	806.4	1017.4	1252.7
35°	0.0	19.1	57.1	120.4	212.0	332.2	481.7	659.3	863.2	1090.4	1338.6
32.5°	0.0	19.6	59.7	127.4	226.0	354.7	510.6	698.2	916.7	1159.3	1426.2
30°	0.0	20.2	62.1	134.0	239.0	375.7	541.6	736.3	966.8	1223.8	1508.2
27.5°	0.0	20.7	64.3	140.1	251.1	395.3	570.3	776.7	1015.7	1283.8	1584.6
25°	0.0	21.1	66.3	145.8	262.3	413.3	596.8	814.0	1064.5	1344.1	1655.6
22.5°	0.0	21.5	68.2	150.9	272.4	429.6	621.0	848.0	1109.1	1401.5	1730.7
20°	0.0	21.9	69.9	155.5	281.6	444.4	642.8	878.7	1149.2	1453.3	1798.4
17.5°	0.0	22.2	71.4	159.6	289.7	457.5	662.1	905.9	1184.9	1499.4	1858.7
15°	0.0	22.5	72.7	163.2	296.8	468.9	678.9	929.6	1216.0	1539.6	1911.3
12.5°	0.0	22.7	73.8	166.2	302.8	478.6	693.2	949.8	1242.5	1573.8	1956.1
10°	0.0	22.9	74.7	168.7	307.7	486.6	705.0	966.4	1264.2	1601.9	1993.0
7.5°	0.0	23.1	75.4	170.6	311.5	492.8	714.2	979.3	1281.2	1623.9	2021.8
5°	0.0	23.2	75.9	172.0	314.3	497.2	720.7	988.6	1293.4	1639.6	2042.4
2.5°	0.0	23.3	76.2	172.8	315.9	499.9	724.7	994.1	1300.7	1649.0	2054.8
0°	0.0	23.3	76.3	173.1	316.5	500.8	726.0	996.0	1303.1	1652.2	2058.9
-2.5°	0.0	23.3	76.2	172.8	315.9	499.9	724.7	994.1	1300.7	1649.0	2054.8
-5°	0.0	23.2	75.9	172.0	314.3	497.2	720.7	988.6	1293.4	1639.6	2042.4
-7.5°	0.0	23.1	75.4	170.6	311.5	492.8	714.2	979.3	1281.2	1623.9	2021.8
-10°	0.0	22.9	74.7	168.7	307.7	486.6	705.0	966.4	1264.2	1601.9	1993.0
-12.5°	0.0	22.7	73.8	166.2	302.8	478.6	693.2	949.8	1242.5	1573.8	1956.1
-15°	0.0	22.5	72.7	163.2	296.8	468.9	678.9	929.6	1216.0	1539.6	1911.3
-17.5°	0.0	22.2	71.4	159.6	289.7	457.5	662.1	905.9	1184.9	1499.4	1858.7
-20°	0.0	21.9	69.9	155.5	281.6	444.4	642.8	878.7	1149.2	1453.3	1798.4



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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	21.5	68.2	150.9	272.4	429.6	621.0	848.0	1109.1	1401.5	1730.7
-25°	0.0	21.1	66.3	145.8	262.3	413.3	596.8	814.0	1064.5	1344.1	1655.6
-27.5°	0.0	20.7	64.3	140.1	251.1	395.3	570.3	776.7	1015.7	1283.8	1584.6
-30°	0.0	20.2	62.1	134.0	239.0	375.7	541.6	736.3	966.8	1223.8	1508.2
-32.5°	0.0	19.6	59.7	127.4	226.0	354.7	510.6	698.2	916.7	1159.3	1426.2
-35°	0.0	19.1	57.1	120.4	212.0	332.2	481.7	659.3	863.2	1090.4	1338.6
-37.5°	0.0	18.5	54.4	112.8	197.1	310.0	452.8	618.1	806.4	1017.4	1252.7
-40°	0.0	17.8	51.5	104.9	181.4	290.3	422.3	574.5	746.4	947.1	1166.7
-42.5°	0.0	17.2	48.4	96.5	167.5	269.6	390.3	528.6	690.5	875.9	1076.4
-45°	0.0	16.5	45.2	87.7	155.8	247.9	356.7	484.3	635.5	801.6	983.9
-47.5°	0.0	15.7	41.9	78.6	143.6	225.2	321.7	443.4	578.3	724.5	897.7
-50°	0.0	15.0	38.4	72.3	130.8	201.6	292.2	400.9	518.8	657.5	808.4
-52.5°	0.0	14.2	34.8	66.9	117.7	177.2	262.9	356.9	465.2	588.3	717.7
-55°	0.0	13.4	31.0	61.3	104.0	158.8	232.6	312.6	413.3	517.0	638.5
-57.5°	0.0	12.5	27.2	55.6	90.0	141.3	201.4	276.2	359.9	454.0	557.1
-60°	0.0	11.6	23.3	49.6	75.9	123.3	170.6	238.9	307.7	392.5	478.6
-62.5°	0.0	10.8	21.5	43.6	67.8	104.8	148.5	200.7	264.1	329.6	408.9
-65°	0.0	9.8	19.7	37.3	59.5	85.9	125.8	165.4	219.6	276.8	337.8
-67.5°	0.0	8.9	17.8	31.0	51.1	71.0	102.8	138.6	174.3	225.9	276.8
-70°	0.0	8.0	15.9	24.5	42.5	60.3	79.3	111.3	142.8	174.3	219.6
-72.5°	0.0	7.0	14.0	21.0	33.8	49.4	64.9	83.6	111.3	138.6	165.4
-75°	0.0	6.0	12.0	18.0	24.9	38.4	51.7	64.9	79.3	102.8	125.8
-77.5°	0.0	5.0	10.1	15.1	20.1	27.2	38.4	49.4	60.3	71.0	85.9
-80°	0.0	4.0	8.1	12.1	16.1	20.1	24.9	33.8	42.5	51.1	59.5
-82.5°	0.0	3.0	6.1	9.1	12.1	15.1	18.0	21.0	24.5	31.0	37.3
-85°	0.0	2.0	4.1	6.1	8.1	10.1	12.0	14.0	15.9	17.8	19.7
-87.5°	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	8.9	9.8
-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°	10.8	11.6	12.5	13.4	14.2	15.0	15.7	16.5	17.2	17.8	18.5
85°	21.5	23.3	27.2	31.0	34.8	38.4	41.9	45.2	48.4	51.5	54.4
82.5°	43.6	49.6	55.6	61.3	66.9	72.3	78.6	87.7	96.5	104.9	112.8
80°	67.8	75.9	90.0	104.0	117.7	130.8	143.6	155.8	167.5	181.4	197.1
77.5°	104.8	123.3	141.3	158.8	177.2	201.6	225.2	247.9	269.6	290.3	310.0
75°	148.5	170.6	201.4	232.6	262.9	292.2	321.7	356.7	390.3	422.3	452.8
72.5°	200.7	238.9	276.2	312.6	356.9	400.9	443.4	484.3	528.6	574.5	618.1
70°	264.1	307.7	359.9	413.3	465.2	518.8	578.3	635.5	690.5	746.4	806.4
67.5°	329.6	392.5	454.0	517.0	588.3	657.5	724.5	801.6	875.9	947.1	1017.4
65°	408.9	478.6	557.1	638.5	717.7	808.4	897.7	983.9	1076.4	1166.7	1252.7
62.5°	486.8	577.2	668.8	764.7	869.2	970.7	1079.2	1187.2	1291.2	1402.9	1511.1
60°	577.2	678.9	789.1	905.9	1023.1	1149.2	1271.5	1401.5	1530.9	1655.6	1793.8
57.5°	668.8	789.1	918.2	1051.2	1191.6	1331.6	1482.4	1628.4	1788.4	1945.9	2102.3
55°	764.7	905.9	1051.2	1205.7	1364.1	1531.4	1700.9	1884.4	2062.1	2259.1	2447.8
52.5°	869.2	1023.1	1191.6	1364.1	1547.8	1739.3	1942.6	2152.3	2372.6	2593.2	2827.3
50°	970.7	1149.2	1331.6	1531.4	1739.3	1962.0	2197.7	2441.4	2699.6	2961.4	3243.5
47.5°	1079.2	1271.5	1482.4	1700.9	1942.6	2197.7	2464.4	2753.2	3042.6	3376.5	3703.4
45°	1187.2	1401.5	1628.4	1884.4	2152.3	2441.4	2753.2	3069.8	3443.5	3816.3	4214.3
42.5°	1291.2	1530.9	1788.4	2062.1	2372.6	2699.6	3042.6	3443.5	3855.2	4293.4	4765.8
40°	1402.9	1655.6	1945.9	2259.1	2593.2	2961.4	3376.5	3816.3	4293.4	4814.5	5355.3
37.5°	1511.1	1793.8	2102.3	2447.8	2827.3	3243.5	3703.4	4214.3	4765.8	5355.3	6005.1
35°	1613.8	1925.2	2268.0	2642.4	3050.7	3535.6	4057.4	4620.6	5256.2	5947.1	6674.1
32.5°	1720.4	2049.4	2424.9	2838.5	3304.3	3825.4	4397.8	5059.9	5774.3	6535.4	7384.7
30°	1826.4	2182.8	2578.9	3023.1	3547.3	4124.8	4769.8	5490.0	6283.7	7172.7	8125.9
27.5°	1925.2	2308.6	2737.3	3222.7	3781.6	4405.6	5134.6	5938.1	6824.1	7796.4	8861.8
25°	2016.5	2424.9	2884.0	3417.1	4022.7	4705.6	5487.6	6356.3	7350.8	8442.5	9641.5
22.5°	2106.3	2531.7	3018.3	3595.4	4244.1	4995.2	5845.5	6798.7	7868.6	9046.6	10390.2
20°	2193.4	2642.4	3155.1	3761.3	4445.1	5258.3	6171.4	7211.6	8378.2	9685.4	11126.0
17.5°	2271.0	2741.1	3286.9	3926.0	4655.2	5509.9	6471.7	7582.4	8836.8	10261.6	11814.1
15°	2338.8	2827.3	3402.2	4070.3	4845.1	5746.2	6772.6	7949.3	9278.5	10786.6	12426.5
12.5°	2396.5	2900.8	3500.6	4193.4	5007.3	5948.4	7030.5	8269.7	9682.9	11272.0	13020.6
10°	2444.0	2961.4	3581.6	4295.0	5141.3	6115.5	7243.7	8534.9	10018.4	11675.2	13515.3
7.5°	2481.1	3008.7	3645.0	4374.4	5246.1	6246.4	7411.0	8743.3	10282.2	11992.9	13905.8
5°	2507.7	3042.6	3690.4	4431.4	5321.4	6340.4	7531.3	8893.3	10472.2	12222.0	14187.8
2.5°	2523.7	3063.0	3717.8	4465.7	5366.8	6397.1	7603.8	8983.7	10586.9	12360.4	14358.3
0°	2529.0	3069.8	3726.9	4477.2	5381.9	6416.0	7628.0	9013.9	10625.2	12406.7	14415.4
-2.5°	2523.7	3063.0	3717.8	4465.7	5366.8	6397.1	7603.8	8983.7	10586.9	12360.4	14358.3
-5°	2507.7	3042.6	3690.4	4431.4	5321.4	6340.4	7531.3	8893.3	10472.2	12222.0	14187.8
-7.5°	2481.1	3008.7	3645.0	4374.4	5246.1	6246.4	7411.0	8743.3	10282.2	11992.9	13905.8
-10°	2444.0	2961.4	3581.6	4295.0	5141.3	6115.5	7243.7	8534.9	10018.4	11675.2	13515.3
-12.5°	2396.5	2900.8	3500.6	4193.4	5007.3	5948.4	7030.5	8269.7	9682.9	11272.0	13020.6
-15°	2338.8	2827.3	3402.2	4070.3	4845.1	5746.2	6772.6	7949.3	9278.5	10786.6	12426.5
-17.5°	2271.0	2741.1	3286.9	3926.0	4655.2	5509.9	6471.7	7582.4	8836.8	10261.6	11814.1
-20°	2193.4	2642.4	3155.1	3761.3	4445.1	5258.3	6171.4	7211.6	8378.2	9685.4	11126.0



REPORT NUMBER: P731209 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-7F-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2106.3	2531.7	3018.3	3595.4	4244.1	4995.2	5845.5	6798.7	7868.6	9046.6	10390.2
-25°	2016.5	2424.9	2884.0	3417.1	4022.7	4705.6	5487.6	6356.3	7350.8	8442.5	9641.5
-27.5°	1925.2	2308.6	2737.3	3222.7	3781.6	4405.6	5134.6	5938.1	6824.1	7796.4	8861.8
-30°	1826.4	2182.8	2578.9	3023.1	3547.3	4124.8	4769.8	5490.0	6283.7	7172.7	8125.9
-32.5°	1720.4	2049.4	2424.9	2838.5	3304.3	3825.4	4397.8	5059.9	5774.3	6535.4	7384.7
-35°	1613.8	1925.2	2268.0	2642.4	3050.7	3535.6	4057.4	4620.6	5256.2	5947.1	6674.1
-37.5°	1511.1	1793.8	2102.3	2447.8	2827.3	3243.5	3703.4	4214.3	4765.8	5355.3	6005.1
-40°	1402.9	1655.6	1945.9	2259.1	2593.2	2961.4	3376.5	3816.3	4293.4	4814.5	5355.3
-42.5°	1291.2	1530.9	1788.4	2062.1	2372.6	2699.6	3042.6	3443.5	3855.2	4293.4	4765.8
-45°	1187.2	1401.5	1628.4	1884.4	2152.3	2441.4	2753.2	3069.8	3443.5	3816.3	4214.3
-47.5°	1079.2	1271.5	1482.4	1700.9	1942.6	2197.7	2464.4	2753.2	3042.6	3376.5	3703.4
-50°	970.7	1149.2	1331.6	1531.4	1739.3	1962.0	2197.7	2441.4	2699.6	2961.4	3243.5
-52.5°	869.2	1023.1	1191.6	1364.1	1547.8	1739.3	1942.6	2152.3	2372.6	2593.2	2827.3
-55°	764.7	905.9	1051.2	1205.7	1364.1	1531.4	1700.9	1884.4	2062.1	2259.1	2447.8
-57.5°	668.8	789.1	918.2	1051.2	1191.6	1331.6	1482.4	1628.4	1788.4	1945.9	2102.3
-60°	577.2	678.9	789.1	905.9	1023.1	1149.2	1271.5	1401.5	1530.9	1655.6	1793.8
-62.5°	486.8	577.2	668.8	764.7	869.2	970.7	1079.2	1187.2	1291.2	1402.9	1511.1
-65°	408.9	478.6	557.1	638.5	717.7	808.4	897.7	983.9	1076.4	1166.7	1252.7
-67.5°	329.6	392.5	454.0	517.0	588.3	657.5	724.5	801.6	875.9	947.1	1017.4
-70°	264.1	307.7	359.9	413.3	465.2	518.8	578.3	635.5	690.5	746.4	806.4
-72.5°	200.7	238.9	276.2	312.6	356.9	400.9	443.4	484.3	528.6	574.5	618.1
-75°	148.5	170.6	201.4	232.6	262.9	292.2	321.7	356.7	390.3	422.3	452.8
-77.5°	104.8	123.3	141.3	158.8	177.2	201.6	225.2	247.9	269.6	290.3	310.0
-80°	67.8	75.9	90.0	104.0	117.7	130.8	143.6	155.8	167.5	181.4	197.1
-82.5°	43.6	49.6	55.6	61.3	66.9	72.3	78.6	87.7	96.5	104.9	112.8
-85°	21.5	23.3	27.2	31.0	34.8	38.4	41.9	45.2	48.4	51.5	54.4
-87.5°	10.8	11.6	12.5	13.4	14.2	15.0	15.7	16.5	17.2	17.8	18.5
-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):

	-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°	19.1	19.6	20.2	20.7	21.1	21.5	21.9	22.2	22.5	22.7	22.9
85°	57.1	59.7	62.1	64.3	66.3	68.2	69.9	71.4	72.7	73.8	74.7
82.5°	120.4	127.4	134.0	140.1	145.8	150.9	155.5	159.6	163.2	166.2	168.7
80°	212.0	226.0	239.0	251.1	262.3	272.4	281.6	289.7	296.8	302.8	307.7
77.5°	332.2	354.7	375.7	395.3	413.3	429.6	444.4	457.5	468.9	478.6	486.6
75°	481.7	510.6	541.6	570.3	596.8	621.0	642.8	662.1	678.9	693.2	705.0
72.5°	659.3	698.2	736.3	776.7	814.0	848.0	878.7	905.9	929.6	949.8	966.4
70°	863.2	916.7	966.8	1015.7	1064.5	1109.1	1149.2	1184.9	1216.0	1242.5	1264.2
67.5°	1090.4	1159.3	1223.8	1283.8	1344.1	1401.5	1453.3	1499.4	1539.6	1573.8	1601.9
65°	1338.6	1426.2	1508.2	1584.6	1655.6	1730.7	1798.4	1858.7	1911.3	1956.1	1993.0
62.5°	1613.8	1720.4	1826.4	1925.2	2016.5	2106.3	2193.4	2271.0	2338.8	2396.5	2444.0
60°	1925.2	2049.4	2182.8	2308.6	2424.9	2531.7	2642.4	2741.1	2827.3	2900.8	2961.4
57.5°	2268.0	2424.9	2578.9	2737.3	2884.0	3018.3	3155.1	3286.9	3402.2	3500.6	3581.6
55°	2642.4	2838.5	3023.1	3222.7	3417.1	3595.4	3761.3	3926.0	4070.3	4193.4	4295.0
52.5°	3050.7	3304.3	3547.3	3781.6	4022.7	4244.1	4445.1	4655.2	4845.1	5007.3	5141.3
50°	3535.6	3825.4	4124.8	4405.6	4705.6	4995.2	5258.3	5509.9	5746.2	5948.4	6115.5
47.5°	4057.4	4397.8	4769.8	5134.6	5487.6	5845.5	6171.4	6471.7	6772.6	7030.5	7243.7
45°	4620.6	5059.9	5490.0	5938.1	6356.3	6798.7	7211.6	7582.4	7949.3	8269.7	8534.9
42.5°	5256.2	5774.3	6283.7	6824.1	7350.8	7868.6	8378.2	8836.8	9278.5	9682.9	10018.4
40°	5947.1	6535.4	7172.7	7796.4	8442.5	9046.6	9685.4	10261.6	10786.6	11272.0	11675.2
37.5°	6674.1	7384.7	8125.9	8861.8	9641.5	10390.2	11126.0	11814.1	12426.5	13020.6	13515.3
35°	7455.9	8292.5	9134.2	10046.3	10936.3	11824.3	12673.1	13510.8	14256.0	14951.6	15546.1
32.5°	8292.5	9234.0	10251.3	11284.9	12300.6	13360.2	14353.1	15344.6	16235.5	17049.4	17765.8
30°	9134.2	10251.3	11402.2	12559.5	13780.7	14982.7	16160.6	17301.7	18368.9	19299.3	20079.2
27.5°	10046.3	11284.9	12559.5	13922.4	15306.0	16664.9	18063.1	19347.5	20501.1	21513.0	22433.1
25°	10936.3	12300.6	13780.7	15306.0	16851.6	18451.2	19949.2	21332.1	22667.6	23858.8	24933.3
22.5°	11824.3	13360.2	14982.7	16664.9	18451.2	20152.6	21775.6	23384.0	24913.0	26330.0	27555.3
20°	12673.1	14353.1	16160.6	18063.1	19949.2	21775.6	23626.9	25467.8	27208.0	28799.6	30166.2
17.5°	13510.8	15344.6	17301.7	19347.5	21332.1	23384.0	25467.8	27512.2	29444.7	31157.2	32641.2
15°	14256.0	16235.5	18368.9	20501.1	22667.6	24913.0	27208.0	29444.7	31497.1	33370.7	35034.4
12.5°	14951.6	17049.4	19299.3	21513.0	23858.8	26330.0	28799.6	31157.2	33370.7	35438.5	37106.4
10°	15546.1	17765.8	20079.2	22433.1	24933.3	27555.3	30166.2	32641.2	35034.4	37106.4	38925.1
7.5°	16016.4	18334.0	20699.9	23168.8	25816.1	28558.6	31253.8	33869.1	36330.0	38502.3	40327.2
5°	16356.7	18746.1	21151.3	23705.6	26463.2	29298.2	32061.8	34791.1	37271.6	39509.7	41376.0
2.5°	16562.7	18996.0	21425.5	24032.5	26858.5	29752.0	32560.4	35364.7	37864.4	40110.3	42003.4
0°	16631.7	19079.7	21517.5	24142.3	26991.5	29905.0	32729.0	35559.6	38067.2	40308.6	42219.5
-2.5°	16562.7	18996.0	21425.5	24032.5	26858.5	29752.0	32560.4	35364.7	37864.4	40110.3	42003.4
-5°	16356.7	18746.1	21151.3	23705.6	26463.2	29298.2	32061.8	34791.1	37271.6	39509.7	41376.0
-7.5°	16016.4	18334.0	20699.9	23168.8	25816.1	28558.6	31253.8	33869.1	36330.0	38502.3	40327.2
-10°	15546.1	17765.8	20079.2	22433.1	24933.3	27555.3	30166.2	32641.2	35034.4	37106.4	38925.1
-12.5°	14951.6	17049.4	19299.3	21513.0	23858.8	26330.0	28799.6	31157.2	33370.7	35438.5	37106.4
-15°	14256.0	16235.5	18368.9	20501.1	22667.6	24913.0	27208.0	29444.7	31497.1	33370.7	35034.4
-17.5°	13510.8	15344.6	17301.7	19347.5	21332.1	23384.0	25467.8	27512.2	29444.7	31157.2	32641.2
-20°	12673.1	14353.1	16160.6	18063.1	19949.2	21775.6	23626.9	25467.8	27208.0	28799.6	30166.2



REPORT NUMBER: P731209 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-7F-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	11824.3	13360.2	14982.7	16664.9	18451.2	20152.6	21775.6	23384.0	24913.0	26330.0	27555.3
-25°	10936.3	12300.6	13780.7	15306.0	16851.6	18451.2	19949.2	21332.1	22667.6	23858.8	24933.3
-27.5°	10046.3	11284.9	12559.5	13922.4	15306.0	16664.9	18063.1	19347.5	20501.1	21513.0	22433.1
-30°	9134.2	10251.3	11402.2	12559.5	13780.7	14982.7	16160.6	17301.7	18368.9	19299.3	20079.2
-32.5°	8292.5	9234.0	10251.3	11284.9	12300.6	13360.2	14353.1	15344.6	16235.5	17049.4	17765.8
-35°	7455.9	8292.5	9134.2	10046.3	10936.3	11824.3	12673.1	13510.8	14256.0	14951.6	15546.1
-37.5°	6674.1	7384.7	8125.9	8861.8	9641.5	10390.2	11126.0	11814.1	12426.5	13020.6	13515.3
-40°	5947.1	6535.4	7172.7	7796.4	8442.5	9046.6	9685.4	10261.6	10786.6	11272.0	11675.2
-42.5°	5256.2	5774.3	6283.7	6824.1	7350.8	7868.6	8378.2	8836.8	9278.5	9682.9	10018.4
-45°	4620.6	5059.9	5490.0	5938.1	6356.3	6798.7	7211.6	7582.4	7949.3	8269.7	8534.9
-47.5°	4057.4	4397.8	4769.8	5134.6	5487.6	5845.5	6171.4	6471.7	6772.6	7030.5	7243.7
-50°	3535.6	3825.4	4124.8	4405.6	4705.6	4995.2	5258.3	5509.9	5746.2	5948.4	6115.5
-52.5°	3050.7	3304.3	3547.3	3781.6	4022.7	4244.1	4445.1	4655.2	4845.1	5007.3	5141.3
-55°	2642.4	2838.5	3023.1	3222.7	3417.1	3595.4	3761.3	3926.0	4070.3	4193.4	4295.0
-57.5°	2268.0	2424.9	2578.9	2737.3	2884.0	3018.3	3155.1	3286.9	3402.2	3500.6	3581.6
-60°	1925.2	2049.4	2182.8	2308.6	2424.9	2531.7	2642.4	2741.1	2827.3	2900.8	2961.4
-62.5°	1613.8	1720.4	1826.4	1925.2	2016.5	2106.3	2193.4	2271.0	2338.8	2396.5	2444.0
-65°	1338.6	1426.2	1508.2	1584.6	1655.6	1730.7	1798.4	1858.7	1911.3	1956.1	1993.0
-67.5°	1090.4	1159.3	1223.8	1283.8	1344.1	1401.5	1453.3	1499.4	1539.6	1573.8	1601.9
-70°	863.2	916.7	966.8	1015.7	1064.5	1109.1	1149.2	1184.9	1216.0	1242.5	1264.2
-72.5°	659.3	698.2	736.3	776.7	814.0	848.0	878.7	905.9	929.6	949.8	966.4
-75°	481.7	510.6	541.6	570.3	596.8	621.0	642.8	662.1	678.9	693.2	705.0
-77.5°	332.2	354.7	375.7	395.3	413.3	429.6	444.4	457.5	468.9	478.6	486.6
-80°	212.0	226.0	239.0	251.1	262.3	272.4	281.6	289.7	296.8	302.8	307.7
-82.5°	120.4	127.4	134.0	140.1	145.8	150.9	155.5	159.6	163.2	166.2	168.7
-85°	57.1	59.7	62.1	64.3	66.3	68.2	69.9	71.4	72.7	73.8	74.7
-87.5°	19.1	19.6	20.2	20.7	21.1	21.5	21.9	22.2	22.5	22.7	22.9
-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: P731209 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-7F-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°	23.1	23.2	23.3	23.3	23.3	23.2	23.1	22.9	22.7	22.5	22.2
85°	75.4	75.9	76.2	76.3	76.2	75.9	75.4	74.7	73.8	72.7	71.4
82.5°	170.6	172.0	172.8	173.1	172.8	172.0	170.6	168.7	166.2	163.2	159.6
80°	311.5	314.3	315.9	316.5	315.9	314.3	311.5	307.7	302.8	296.8	289.7
77.5°	492.8	497.2	499.9	500.8	499.9	497.2	492.8	486.6	478.6	468.9	457.5
75°	714.2	720.7	724.7	726.0	724.7	720.7	714.2	705.0	693.2	678.9	662.1
72.5°	979.3	988.6	994.1	996.0	994.1	988.6	979.3	966.4	949.8	929.6	905.9
70°	1281.2	1293.4	1300.7	1303.1	1300.7	1293.4	1281.2	1264.2	1242.5	1216.0	1184.9
67.5°	1623.9	1639.6	1649.0	1652.2	1649.0	1639.6	1623.9	1601.9	1573.8	1539.6	1499.4
65°	2021.8	2042.4	2054.8	2058.9	2054.8	2042.4	2021.8	1993.0	1956.1	1911.3	1858.7
62.5°	2481.1	2507.7	2523.7	2529.0	2523.7	2507.7	2481.1	2444.0	2396.5	2338.8	2271.0
60°	3008.7	3042.6	3063.0	3069.8	3063.0	3042.6	3008.7	2961.4	2900.8	2827.3	2741.1
57.5°	3645.0	3690.4	3717.8	3726.9	3717.8	3690.4	3645.0	3581.6	3500.6	3402.2	3286.9
55°	4374.4	4431.4	4465.7	4477.2	4465.7	4431.4	4374.4	4295.0	4193.4	4070.3	3926.0
52.5°	5246.1	5321.4	5366.8	5381.9	5366.8	5321.4	5246.1	5141.3	5007.3	4845.1	4655.2
50°	6246.4	6340.4	6397.1	6416.0	6397.1	6340.4	6246.4	6115.5	5948.4	5746.2	5509.9
47.5°	7411.0	7531.3	7603.8	7628.0	7603.8	7531.3	7411.0	7243.7	7030.5	6772.6	6471.7
45°	8743.3	8893.3	8983.7	9013.9	8983.7	8893.3	8743.3	8534.9	8269.7	7949.3	7582.4
42.5°	10282.2	10472.2	10586.9	10625.2	10586.9	10472.2	10282.2	10018.4	9682.9	9278.5	8836.8
40°	11992.9	12222.0	12360.4	12406.7	12360.4	12222.0	11992.9	11675.2	11272.0	10786.6	10261.6
37.5°	13905.8	14187.8	14358.3	14415.4	14358.3	14187.8	13905.8	13515.3	13020.6	12426.5	11814.1
35°	16016.4	16356.7	16562.7	16631.7	16562.7	16356.7	16016.4	15546.1	14951.6	14256.0	13510.8
32.5°	18334.0	18746.1	18996.0	19079.7	18996.0	18746.1	18334.0	17765.8	17049.4	16235.5	15344.6
30°	20699.9	21151.3	21425.5	21517.5	21425.5	21151.3	20699.9	20079.2	19299.3	18368.9	17301.7
27.5°	23168.8	23705.6	24032.5	24142.3	24032.5	23705.6	23168.8	22433.1	21513.0	20501.1	19347.5
25°	25816.1	26463.2	26858.5	26991.5	26858.5	26463.2	25816.1	24933.3	23858.8	22667.6	21332.1
22.5°	28558.6	29298.2	29752.0	29905.0	29752.0	29298.2	28558.6	27555.3	26330.0	24913.0	23384.0
20°	31253.8	32061.8	32560.4	32729.0	32560.4	32061.8	31253.8	30166.2	28799.6	27208.0	25467.8
17.5°	33869.1	34791.1	35364.7	35559.6	35364.7	34791.1	33869.1	32641.2	31157.2	29444.7	27512.2
15°	36330.0	37271.6	37864.4	38067.2	37864.4	37271.6	36330.0	35034.4	33370.7	31497.1	29444.7
12.5°	38502.3	39509.7	40110.3	40308.6	40110.3	39509.7	38502.3	37106.4	35438.5	33370.7	31157.2
10°	40327.2	41376.0	42003.4	42219.5	42003.4	41376.0	40327.2	38925.1	37106.4	35034.4	32641.2
7.5°	41800.1	42868.1	43531.9	43745.6	43531.9	42868.1	41800.1	40327.2	38502.3	36330.0	33869.1
5°	42868.1	43975.1	44617.7	44855.6	44617.7	43975.1	42868.1	41376.0	39509.7	37271.6	34791.1
2.5°	43531.9	44617.7	45286.9	45514.1	45286.9	44617.7	43531.9	42003.4	40110.3	37864.4	35364.7
0°	43745.6	44855.6	45514.1	45768.7	45514.1	44855.6	43745.6	42219.5	40308.6	38067.2	35559.6
-2.5°	43531.9	44617.7	45286.9	45514.1	45286.9	44617.7	43531.9	42003.4	40110.3	37864.4	35364.7
-5°	42868.1	43975.1	44617.7	44855.6	44617.7	43975.1	42868.1	41376.0	39509.7	37271.6	34791.1
-7.5°	41800.1	42868.1	43531.9	43745.6	43531.9	42868.1	41800.1	40327.2	38502.3	36330.0	33869.1
-10°	40327.2	41376.0	42003.4	42219.5	42003.4	41376.0	40327.2	38925.1	37106.4	35034.4	32641.2
-12.5°	38502.3	39509.7	40110.3	40308.6	40110.3	39509.7	38502.3	37106.4	35438.5	33370.7	31157.2
-15°	36330.0	37271.6	37864.4	38067.2	37864.4	37271.6	36330.0	35034.4	33370.7	31497.1	29444.7
-17.5°	33869.1	34791.1	35364.7	35559.6	35364.7	34791.1	33869.1	32641.2	31157.2	29444.7	27512.2
-20°	31253.8	32061.8	32560.4	32729.0	32560.4	32061.8	31253.8	30166.2	28799.6	27208.0	25467.8



REPORT NUMBER: P731209 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	28558.6	29298.2	29752.0	29905.0	29752.0	29298.2	28558.6	27555.3	26330.0	24913.0	23384.0
-25°	25816.1	26463.2	26858.5	26991.5	26858.5	26463.2	25816.1	24933.3	23858.8	22667.6	21332.1
-27.5°	23168.8	23705.6	24032.5	24142.3	24032.5	23705.6	23168.8	22433.1	21513.0	20501.1	19347.5
-30°	20699.9	21151.3	21425.5	21517.5	21425.5	21151.3	20699.9	20079.2	19299.3	18368.9	17301.7
-32.5°	18334.0	18746.1	18996.0	19079.7	18996.0	18746.1	18334.0	17765.8	17049.4	16235.5	15344.6
-35°	16016.4	16356.7	16562.7	16631.7	16562.7	16356.7	16016.4	15546.1	14951.6	14256.0	13510.8
-37.5°	13905.8	14187.8	14358.3	14415.4	14358.3	14187.8	13905.8	13515.3	13020.6	12426.5	11814.1
-40°	11992.9	12222.0	12360.4	12406.7	12360.4	12222.0	11992.9	11675.2	11272.0	10786.6	10261.6
-42.5°	10282.2	10472.2	10586.9	10625.2	10586.9	10472.2	10282.2	10018.4	9682.9	9278.5	8836.8
-45°	8743.3	8893.3	8983.7	9013.9	8983.7	8893.3	8743.3	8534.9	8269.7	7949.3	7582.4
-47.5°	7411.0	7531.3	7603.8	7628.0	7603.8	7531.3	7411.0	7243.7	7030.5	6772.6	6471.7
-50°	6246.4	6340.4	6397.1	6416.0	6397.1	6340.4	6246.4	6115.5	5948.4	5746.2	5509.9
-52.5°	5246.1	5321.4	5366.8	5381.9	5366.8	5321.4	5246.1	5141.3	5007.3	4845.1	4655.2
-55°	4374.4	4431.4	4465.7	4477.2	4465.7	4431.4	4374.4	4295.0	4193.4	4070.3	3926.0
-57.5°	3645.0	3690.4	3717.8	3726.9	3717.8	3690.4	3645.0	3581.6	3500.6	3402.2	3286.9
-60°	3008.7	3042.6	3063.0	3069.8	3063.0	3042.6	3008.7	2961.4	2900.8	2827.3	2741.1
-62.5°	2481.1	2507.7	2523.7	2529.0	2523.7	2507.7	2481.1	2444.0	2396.5	2338.8	2271.0
-65°	2021.8	2042.4	2054.8	2058.9	2054.8	2042.4	2021.8	1993.0	1956.1	1911.3	1858.7
-67.5°	1623.9	1639.6	1649.0	1652.2	1649.0	1639.6	1623.9	1601.9	1573.8	1539.6	1499.4
-70°	1281.2	1293.4	1300.7	1303.1	1300.7	1293.4	1281.2	1264.2	1242.5	1216.0	1184.9
-72.5°	979.3	988.6	994.1	996.0	994.1	988.6	979.3	966.4	949.8	929.6	905.9
-75°	714.2	720.7	724.7	726.0	724.7	720.7	714.2	705.0	693.2	678.9	662.1
-77.5°	492.8	497.2	499.9	500.8	499.9	497.2	492.8	486.6	478.6	468.9	457.5
-80°	311.5	314.3	315.9	316.5	315.9	314.3	311.5	307.7	302.8	296.8	289.7
-82.5°	170.6	172.0	172.8	173.1	172.8	172.0	170.6	168.7	166.2	163.2	159.6
-85°	75.4	75.9	76.2	76.3	76.2	75.9	75.4	74.7	73.8	72.7	71.4
-87.5°	23.1	23.2	23.3	23.3	23.3	23.2	23.1	22.9	22.7	22.5	22.2
-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°	21.9	21.5	21.1	20.7	20.2	19.6	19.1	18.5	17.8	17.2	16.5
85°	69.9	68.2	66.3	64.3	62.1	59.7	57.1	54.4	51.5	48.4	45.2
82.5°	155.5	150.9	145.8	140.1	134.0	127.4	120.4	112.8	104.9	96.5	87.7
80°	281.6	272.4	262.3	251.1	239.0	226.0	212.0	197.1	181.4	167.5	155.8
77.5°	444.4	429.6	413.3	395.3	375.7	354.7	332.2	310.0	290.3	269.6	247.9
75°	642.8	621.0	596.8	570.3	541.6	510.6	481.7	452.8	422.3	390.3	356.7
72.5°	878.7	848.0	814.0	776.7	736.3	698.2	659.3	618.1	574.5	528.6	484.3
70°	1149.2	1109.1	1064.5	1015.7	966.8	916.7	863.2	806.4	746.4	690.5	635.5
67.5°	1453.3	1401.5	1344.1	1283.8	1223.8	1159.3	1090.4	1017.4	947.1	875.9	801.6
65°	1798.4	1730.7	1655.6	1584.6	1508.2	1426.2	1338.6	1252.7	1166.7	1076.4	983.9
62.5°	2193.4	2106.3	2016.5	1925.2	1826.4	1720.4	1613.8	1511.1	1402.9	1291.2	1187.2
60°	2642.4	2531.7	2424.9	2308.6	2182.8	2049.4	1925.2	1793.8	1655.6	1530.9	1401.5
57.5°	3155.1	3018.3	2884.0	2737.3	2578.9	2424.9	2268.0	2102.3	1945.9	1788.4	1628.4
55°	3761.3	3595.4	3417.1	3222.7	3023.1	2838.5	2642.4	2447.8	2259.1	2062.1	1884.4
52.5°	4445.1	4244.1	4022.7	3781.6	3547.3	3304.3	3050.7	2827.3	2593.2	2372.6	2152.3
50°	5258.3	4995.2	4705.6	4405.6	4124.8	3825.4	3535.6	3243.5	2961.4	2699.6	2441.4
47.5°	6171.4	5845.5	5487.6	5134.6	4769.8	4397.8	4057.4	3703.4	3376.5	3042.6	2753.2
45°	7211.6	6798.7	6356.3	5938.1	5490.0	5059.9	4620.6	4214.3	3816.3	3443.5	3069.8
42.5°	8378.2	7868.6	7350.8	6824.1	6283.7	5774.3	5256.2	4765.8	4293.4	3855.2	3443.5
40°	9685.4	9046.6	8442.5	7796.4	7172.7	6535.4	5947.1	5355.3	4814.5	4293.4	3816.3
37.5°	11126.0	10390.2	9641.5	8861.8	8125.9	7384.7	6674.1	6005.1	5355.3	4765.8	4214.3
35°	12673.1	11824.3	10936.3	10046.3	9134.2	8292.5	7455.9	6674.1	5947.1	5256.2	4620.6
32.5°	14353.1	13360.2	12300.6	11284.9	10251.3	9234.0	8292.5	7384.7	6535.4	5774.3	5059.9
30°	16160.6	14982.7	13780.7	12559.5	11402.2	10251.3	9134.2	8125.9	7172.7	6283.7	5490.0
27.5°	18063.1	16664.9	15306.0	13922.4	12559.5	11284.9	10046.3	8861.8	7796.4	6824.1	5938.1
25°	19949.2	18451.2	16851.6	15306.0	13780.7	12300.6	10936.3	9641.5	8442.5	7350.8	6356.3
22.5°	21775.6	20152.6	18451.2	16664.9	14982.7	13360.2	11824.3	10390.2	9046.6	7868.6	6798.7
20°	23626.9	21775.6	19949.2	18063.1	16160.6	14353.1	12673.1	11126.0	9685.4	8378.2	7211.6
17.5°	25467.8	23384.0	21332.1	19347.5	17301.7	15344.6	13510.8	11814.1	10261.6	8836.8	7582.4
15°	27208.0	24913.0	22667.6	20501.1	18368.9	16235.5	14256.0	12426.5	10786.6	9278.5	7949.3
12.5°	28799.6	26330.0	23858.8	21513.0	19299.3	17049.4	14951.6	13020.6	11272.0	9682.9	8269.7
10°	30166.2	27555.3	24933.3	22433.1	20079.2	17765.8	15546.1	13515.3	11675.2	10018.4	8534.9
7.5°	31253.8	28558.6	25816.1	23168.8	20699.9	18334.0	16016.4	13905.8	11992.9	10282.2	8743.3
5°	32061.8	29298.2	26463.2	23705.6	21151.3	18746.1	16356.7	14187.8	12222.0	10472.2	8893.3
2.5°	32560.4	29752.0	26858.5	24032.5	21425.5	18996.0	16562.7	14358.3	12360.4	10586.9	8983.7
0°	32729.0	29905.0	26991.5	24142.3	21517.5	19079.7	16631.7	14415.4	12406.7	10625.2	9013.9
-2.5°	32560.4	29752.0	26858.5	24032.5	21425.5	18996.0	16562.7	14358.3	12360.4	10586.9	8983.7
-5°	32061.8	29298.2	26463.2	23705.6	21151.3	18746.1	16356.7	14187.8	12222.0	10472.2	8893.3
-7.5°	31253.8	28558.6	25816.1	23168.8	20699.9	18334.0	16016.4	13905.8	11992.9	10282.2	8743.3
-10°	30166.2	27555.3	24933.3	22433.1	20079.2	17765.8	15546.1	13515.3	11675.2	10018.4	8534.9
-12.5°	28799.6	26330.0	23858.8	21513.0	19299.3	17049.4	14951.6	13020.6	11272.0	9682.9	8269.7
-15°	27208.0	24913.0	22667.6	20501.1	18368.9	16235.5	14256.0	12426.5	10786.6	9278.5	7949.3
-17.5°	25467.8	23384.0	21332.1	19347.5	17301.7	15344.6	13510.8	11814.1	10261.6	8836.8	7582.4
-20°	23626.9	21775.6	19949.2	18063.1	16160.6	14353.1	12673.1	11126.0	9685.4	8378.2	7211.6



REPORT NUMBER: P731209 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	21775.6	20152.6	18451.2	16664.9	14982.7	13360.2	11824.3	10390.2	9046.6	7868.6	6798.7
-25°	19949.2	18451.2	16851.6	15306.0	13780.7	12300.6	10936.3	9641.5	8442.5	7350.8	6356.3
-27.5°	18063.1	16664.9	15306.0	13922.4	12559.5	11284.9	10046.3	8861.8	7796.4	6824.1	5938.1
-30°	16160.6	14982.7	13780.7	12559.5	11402.2	10251.3	9134.2	8125.9	7172.7	6283.7	5490.0
-32.5°	14353.1	13360.2	12300.6	11284.9	10251.3	9234.0	8292.5	7384.7	6535.4	5774.3	5059.9
-35°	12673.1	11824.3	10936.3	10046.3	9134.2	8292.5	7455.9	6674.1	5947.1	5256.2	4620.6
-37.5°	11126.0	10390.2	9641.5	8861.8	8125.9	7384.7	6674.1	6005.1	5355.3	4765.8	4214.3
-40°	9685.4	9046.6	8442.5	7796.4	7172.7	6535.4	5947.1	5355.3	4814.5	4293.4	3816.3
-42.5°	8378.2	7868.6	7350.8	6824.1	6283.7	5774.3	5256.2	4765.8	4293.4	3855.2	3443.5
-45°	7211.6	6798.7	6356.3	5938.1	5490.0	5059.9	4620.6	4214.3	3816.3	3443.5	3069.8
-47.5°	6171.4	5845.5	5487.6	5134.6	4769.8	4397.8	4057.4	3703.4	3376.5	3042.6	2753.2
-50°	5258.3	4995.2	4705.6	4405.6	4124.8	3825.4	3535.6	3243.5	2961.4	2699.6	2441.4
-52.5°	4445.1	4244.1	4022.7	3781.6	3547.3	3304.3	3050.7	2827.3	2593.2	2372.6	2152.3
-55°	3761.3	3595.4	3417.1	3222.7	3023.1	2838.5	2642.4	2447.8	2259.1	2062.1	1884.4
-57.5°	3155.1	3018.3	2884.0	2737.3	2578.9	2424.9	2268.0	2102.3	1945.9	1788.4	1628.4
-60°	2642.4	2531.7	2424.9	2308.6	2182.8	2049.4	1925.2	1793.8	1655.6	1530.9	1401.5
-62.5°	2193.4	2106.3	2016.5	1925.2	1826.4	1720.4	1613.8	1511.1	1402.9	1291.2	1187.2
-65°	1798.4	1730.7	1655.6	1584.6	1508.2	1426.2	1338.6	1252.7	1166.7	1076.4	983.9
-67.5°	1453.3	1401.5	1344.1	1283.8	1223.8	1159.3	1090.4	1017.4	947.1	875.9	801.6
-70°	1149.2	1109.1	1064.5	1015.7	966.8	916.7	863.2	806.4	746.4	690.5	635.5
-72.5°	878.7	848.0	814.0	776.7	736.3	698.2	659.3	618.1	574.5	528.6	484.3
-75°	642.8	621.0	596.8	570.3	541.6	510.6	481.7	452.8	422.3	390.3	356.7
-77.5°	444.4	429.6	413.3	395.3	375.7	354.7	332.2	310.0	290.3	269.6	247.9
-80°	281.6	272.4	262.3	251.1	239.0	226.0	212.0	197.1	181.4	167.5	155.8
-82.5°	155.5	150.9	145.8	140.1	134.0	127.4	120.4	112.8	104.9	96.5	87.7
-85°	69.9	68.2	66.3	64.3	62.1	59.7	57.1	54.4	51.5	48.4	45.2
-87.5°	21.9	21.5	21.1	20.7	20.2	19.6	19.1	18.5	17.8	17.2	16.5
-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: P731209 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-7F-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°	15.7	15.0	14.2	13.4	12.5	11.6	10.8	9.8	8.9	8.0	7.0
85°	41.9	38.4	34.8	31.0	27.2	23.3	21.5	19.7	17.8	15.9	14.0
82.5°	78.6	72.3	66.9	61.3	55.6	49.6	43.6	37.3	31.0	24.5	21.0
80°	143.6	130.8	117.7	104.0	90.0	75.9	67.8	59.5	51.1	42.5	33.8
77.5°	225.2	201.6	177.2	158.8	141.3	123.3	104.8	85.9	71.0	60.3	49.4
75°	321.7	292.2	262.9	232.6	201.4	170.6	148.5	125.8	102.8	79.3	64.9
72.5°	443.4	400.9	356.9	312.6	276.2	238.9	200.7	165.4	138.6	111.3	83.6
70°	578.3	518.8	465.2	413.3	359.9	307.7	264.1	219.6	174.3	142.8	111.3
67.5°	724.5	657.5	588.3	517.0	454.0	392.5	329.6	276.8	225.9	174.3	138.6
65°	897.7	808.4	717.7	638.5	557.1	478.6	408.9	337.8	276.8	219.6	165.4
62.5°	1079.2	970.7	869.2	764.7	668.8	577.2	486.8	408.9	329.6	264.1	200.7
60°	1271.5	1149.2	1023.1	905.9	789.1	678.9	577.2	478.6	392.5	307.7	238.9
57.5°	1482.4	1331.6	1191.6	1051.2	918.2	789.1	668.8	557.1	454.0	359.9	276.2
55°	1700.9	1531.4	1364.1	1205.7	1051.2	905.9	764.7	638.5	517.0	413.3	312.6
52.5°	1942.6	1739.3	1547.8	1364.1	1191.6	1023.1	869.2	717.7	588.3	465.2	356.9
50°	2197.7	1962.0	1739.3	1531.4	1331.6	1149.2	970.7	808.4	657.5	518.8	400.9
47.5°	2464.4	2197.7	1942.6	1700.9	1482.4	1271.5	1079.2	897.7	724.5	578.3	443.4
45°	2753.2	2441.4	2152.3	1884.4	1628.4	1401.5	1187.2	983.9	801.6	635.5	484.3
42.5°	3042.6	2699.6	2372.6	2062.1	1788.4	1530.9	1291.2	1076.4	875.9	690.5	528.6
40°	3376.5	2961.4	2593.2	2259.1	1945.9	1655.6	1402.9	1166.7	947.1	746.4	574.5
37.5°	3703.4	3243.5	2827.3	2447.8	2102.3	1793.8	1511.1	1252.7	1017.4	806.4	618.1
35°	4057.4	3535.6	3050.7	2642.4	2268.0	1925.2	1613.8	1338.6	1090.4	863.2	659.3
32.5°	4397.8	3825.4	3304.3	2838.5	2424.9	2049.4	1720.4	1426.2	1159.3	916.7	698.2
30°	4769.8	4124.8	3547.3	3023.1	2578.9	2182.8	1826.4	1508.2	1223.8	966.8	736.3
27.5°	5134.6	4405.6	3781.6	3222.7	2737.3	2308.6	1925.2	1584.6	1283.8	1015.7	776.7
25°	5487.6	4705.6	4022.7	3417.1	2884.0	2424.9	2016.5	1655.6	1344.1	1064.5	814.0
22.5°	5845.5	4995.2	4244.1	3595.4	3018.3	2531.7	2106.3	1730.7	1401.5	1109.1	848.0
20°	6171.4	5258.3	4445.1	3761.3	3155.1	2642.4	2193.4	1798.4	1453.3	1149.2	878.7
17.5°	6471.7	5509.9	4655.2	3926.0	3286.9	2741.1	2271.0	1858.7	1499.4	1184.9	905.9
15°	6772.6	5746.2	4845.1	4070.3	3402.2	2827.3	2338.8	1911.3	1539.6	1216.0	929.6
12.5°	7030.5	5948.4	5007.3	4193.4	3500.6	2900.8	2396.5	1956.1	1573.8	1242.5	949.8
10°	7243.7	6115.5	5141.3	4295.0	3581.6	2961.4	2444.0	1993.0	1601.9	1264.2	966.4
7.5°	7411.0	6246.4	5246.1	4374.4	3645.0	3008.7	2481.1	2021.8	1623.9	1281.2	979.3
5°	7531.3	6340.4	5321.4	4431.4	3690.4	3042.6	2507.7	2042.4	1639.6	1293.4	988.6
2.5°	7603.8	6397.1	5366.8	4465.7	3717.8	3063.0	2523.7	2054.8	1649.0	1300.7	994.1
0°	7628.0	6416.0	5381.9	4477.2	3726.9	3069.8	2529.0	2058.9	1652.2	1303.1	996.0
-2.5°	7603.8	6397.1	5366.8	4465.7	3717.8	3063.0	2523.7	2054.8	1649.0	1300.7	994.1
-5°	7531.3	6340.4	5321.4	4431.4	3690.4	3042.6	2507.7	2042.4	1639.6	1293.4	988.6
-7.5°	7411.0	6246.4	5246.1	4374.4	3645.0	3008.7	2481.1	2021.8	1623.9	1281.2	979.3
-10°	7243.7	6115.5	5141.3	4295.0	3581.6	2961.4	2444.0	1993.0	1601.9	1264.2	966.4
-12.5°	7030.5	5948.4	5007.3	4193.4	3500.6	2900.8	2396.5	1956.1	1573.8	1242.5	949.8
-15°	6772.6	5746.2	4845.1	4070.3	3402.2	2827.3	2338.8	1911.3	1539.6	1216.0	929.6
-17.5°	6471.7	5509.9	4655.2	3926.0	3286.9	2741.1	2271.0	1858.7	1499.4	1184.9	905.9
-20°	6171.4	5258.3	4445.1	3761.3	3155.1	2642.4	2193.4	1798.4	1453.3	1149.2	878.7



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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-7F-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	5845.5	4995.2	4244.1	3595.4	3018.3	2531.7	2106.3	1730.7	1401.5	1109.1	848.0
-25°	5487.6	4705.6	4022.7	3417.1	2884.0	2424.9	2016.5	1655.6	1344.1	1064.5	814.0
-27.5°	5134.6	4405.6	3781.6	3222.7	2737.3	2308.6	1925.2	1584.6	1283.8	1015.7	776.7
-30°	4769.8	4124.8	3547.3	3023.1	2578.9	2182.8	1826.4	1508.2	1223.8	966.8	736.3
-32.5°	4397.8	3825.4	3304.3	2838.5	2424.9	2049.4	1720.4	1426.2	1159.3	916.7	698.2
-35°	4057.4	3535.6	3050.7	2642.4	2268.0	1925.2	1613.8	1338.6	1090.4	863.2	659.3
-37.5°	3703.4	3243.5	2827.3	2447.8	2102.3	1793.8	1511.1	1252.7	1017.4	806.4	618.1
-40°	3376.5	2961.4	2593.2	2259.1	1945.9	1655.6	1402.9	1166.7	947.1	746.4	574.5
-42.5°	3042.6	2699.6	2372.6	2062.1	1788.4	1530.9	1291.2	1076.4	875.9	690.5	528.6
-45°	2753.2	2441.4	2152.3	1884.4	1628.4	1401.5	1187.2	983.9	801.6	635.5	484.3
-47.5°	2464.4	2197.7	1942.6	1700.9	1482.4	1271.5	1079.2	897.7	724.5	578.3	443.4
-50°	2197.7	1962.0	1739.3	1531.4	1331.6	1149.2	970.7	808.4	657.5	518.8	400.9
-52.5°	1942.6	1739.3	1547.8	1364.1	1191.6	1023.1	869.2	717.7	588.3	465.2	356.9
-55°	1700.9	1531.4	1364.1	1205.7	1051.2	905.9	764.7	638.5	517.0	413.3	312.6
-57.5°	1482.4	1331.6	1191.6	1051.2	918.2	789.1	668.8	557.1	454.0	359.9	276.2
-60°	1271.5	1149.2	1023.1	905.9	789.1	678.9	577.2	478.6	392.5	307.7	238.9
-62.5°	1079.2	970.7	869.2	764.7	668.8	577.2	486.8	408.9	329.6	264.1	200.7
-65°	897.7	808.4	717.7	638.5	557.1	478.6	408.9	337.8	276.8	219.6	165.4
-67.5°	724.5	657.5	588.3	517.0	454.0	392.5	329.6	276.8	225.9	174.3	138.6
-70°	578.3	518.8	465.2	413.3	359.9	307.7	264.1	219.6	174.3	142.8	111.3
-72.5°	443.4	400.9	356.9	312.6	276.2	238.9	200.7	165.4	138.6	111.3	83.6
-75°	321.7	292.2	262.9	232.6	201.4	170.6	148.5	125.8	102.8	79.3	64.9
-77.5°	225.2	201.6	177.2	158.8	141.3	123.3	104.8	85.9	71.0	60.3	49.4
-80°	143.6	130.8	117.7	104.0	90.0	75.9	67.8	59.5	51.1	42.5	33.8
-82.5°	78.6	72.3	66.9	61.3	55.6	49.6	43.6	37.3	31.0	24.5	21.0
-85°	41.9	38.4	34.8	31.0	27.2	23.3	21.5	19.7	17.8	15.9	14.0
-87.5°	15.7	15.0	14.2	13.4	12.5	11.6	10.8	9.8	8.9	8.0	7.0
-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°	6.0	5.0	4.0	3.0	2.0	1.0	0.0
85°	12.0	10.1	8.1	6.1	4.1	2.0	0.0
82.5°	18.0	15.1	12.1	9.1	6.1	3.0	0.0
80°	24.9	20.1	16.1	12.1	8.1	4.0	0.0
77.5°	38.4	27.2	20.1	15.1	10.1	5.0	0.0
75°	51.7	38.4	24.9	18.0	12.0	6.0	0.0
72.5°	64.9	49.4	33.8	21.0	14.0	7.0	0.0
70°	79.3	60.3	42.5	24.5	15.9	8.0	0.0
67.5°	102.8	71.0	51.1	31.0	17.8	8.9	0.0
65°	125.8	85.9	59.5	37.3	19.7	9.8	0.0
62.5°	148.5	104.8	67.8	43.6	21.5	10.8	0.0
60°	170.6	123.3	75.9	49.6	23.3	11.6	0.0
57.5°	201.4	141.3	90.0	55.6	27.2	12.5	0.0
55°	232.6	158.8	104.0	61.3	31.0	13.4	0.0
52.5°	262.9	177.2	117.7	66.9	34.8	14.2	0.0
50°	292.2	201.6	130.8	72.3	38.4	15.0	0.0
47.5°	321.7	225.2	143.6	78.6	41.9	15.7	0.0
45°	356.7	247.9	155.8	87.7	45.2	16.5	0.0
42.5°	390.3	269.6	167.5	96.5	48.4	17.2	0.0
40°	422.3	290.3	181.4	104.9	51.5	17.8	0.0
37.5°	452.8	310.0	197.1	112.8	54.4	18.5	0.0
35°	481.7	332.2	212.0	120.4	57.1	19.1	0.0
32.5°	510.6	354.7	226.0	127.4	59.7	19.6	0.0
30°	541.6	375.7	239.0	134.0	62.1	20.2	0.0
27.5°	570.3	395.3	251.1	140.1	64.3	20.7	0.0
25°	596.8	413.3	262.3	145.8	66.3	21.1	0.0
22.5°	621.0	429.6	272.4	150.9	68.2	21.5	0.0
20°	642.8	444.4	281.6	155.5	69.9	21.9	0.0
17.5°	662.1	457.5	289.7	159.6	71.4	22.2	0.0
15°	678.9	468.9	296.8	163.2	72.7	22.5	0.0
12.5°	693.2	478.6	302.8	166.2	73.8	22.7	0.0
10°	705.0	486.6	307.7	168.7	74.7	22.9	0.0
7.5°	714.2	492.8	311.5	170.6	75.4	23.1	0.0
5°	720.7	497.2	314.3	172.0	75.9	23.2	0.0
2.5°	724.7	499.9	315.9	172.8	76.2	23.3	0.0
0°	726.0	500.8	316.5	173.1	76.3	23.3	0.0
-2.5°	724.7	499.9	315.9	172.8	76.2	23.3	0.0
-5°	720.7	497.2	314.3	172.0	75.9	23.2	0.0
-7.5°	714.2	492.8	311.5	170.6	75.4	23.1	0.0
-10°	705.0	486.6	307.7	168.7	74.7	22.9	0.0
-12.5°	693.2	478.6	302.8	166.2	73.8	22.7	0.0
-15°	678.9	468.9	296.8	163.2	72.7	22.5	0.0
-17.5°	662.1	457.5	289.7	159.6	71.4	22.2	0.0
-20°	642.8	444.4	281.6	155.5	69.9	21.9	0.0



REPORT NUMBER: P731209 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-7F-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	621.0	429.6	272.4	150.9	68.2	21.5	0.0
-25°	596.8	413.3	262.3	145.8	66.3	21.1	0.0
-27.5°	570.3	395.3	251.1	140.1	64.3	20.7	0.0
-30°	541.6	375.7	239.0	134.0	62.1	20.2	0.0
-32.5°	510.6	354.7	226.0	127.4	59.7	19.6	0.0
-35°	481.7	332.2	212.0	120.4	57.1	19.1	0.0
-37.5°	452.8	310.0	197.1	112.8	54.4	18.5	0.0
-40°	422.3	290.3	181.4	104.9	51.5	17.8	0.0
-42.5°	390.3	269.6	167.5	96.5	48.4	17.2	0.0
-45°	356.7	247.9	155.8	87.7	45.2	16.5	0.0
-47.5°	321.7	225.2	143.6	78.6	41.9	15.7	0.0
-50°	292.2	201.6	130.8	72.3	38.4	15.0	0.0
-52.5°	262.9	177.2	117.7	66.9	34.8	14.2	0.0
-55°	232.6	158.8	104.0	61.3	31.0	13.4	0.0
-57.5°	201.4	141.3	90.0	55.6	27.2	12.5	0.0
-60°	170.6	123.3	75.9	49.6	23.3	11.6	0.0
-62.5°	148.5	104.8	67.8	43.6	21.5	10.8	0.0
-65°	125.8	85.9	59.5	37.3	19.7	9.8	0.0
-67.5°	102.8	71.0	51.1	31.0	17.8	8.9	0.0
-70°	79.3	60.3	42.5	24.5	15.9	8.0	0.0
-72.5°	64.9	49.4	33.8	21.0	14.0	7.0	0.0
-75°	51.7	38.4	24.9	18.0	12.0	6.0	0.0
-77.5°	38.4	27.2	20.1	15.1	10.1	5.0	0.0
-80°	24.9	20.1	16.1	12.1	8.1	4.0	0.0
-82.5°	18.0	15.1	12.1	9.1	6.1	3.0	0.0
-85°	12.0	10.1	8.1	6.1	4.1	2.0	0.0
-87.5°	6.0	5.0	4.0	3.0	2.0	1.0	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

