

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: P731274 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731274 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-5)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-08-0680N-40-70-5S-HEG
Description: EPHEBUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 5S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

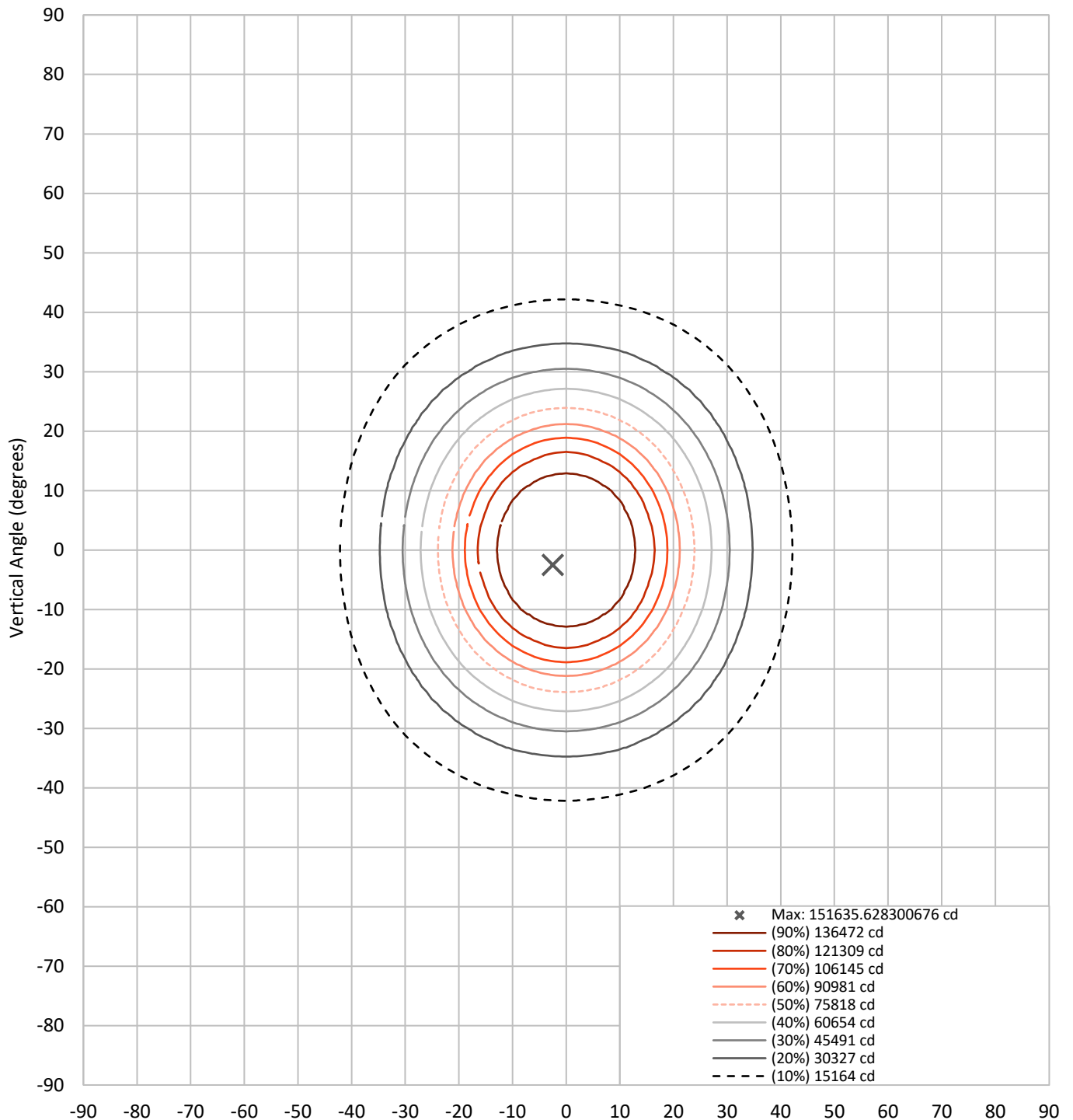
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	110836.5 lumens	Max Intensity:	151635.6 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x -2.5°V
Efficacy:	159.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	47.6°H x 47.6°V	Field Angle (10%):	84.3°H x 84.3°V
Beam Lumens:	62179.2 lumens	Field Lumens:	103272.1 lumens
Beam Efficiency:	56.1%	Field Efficiency:	93.2%

Input Watts (W): 697.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Candela Plot





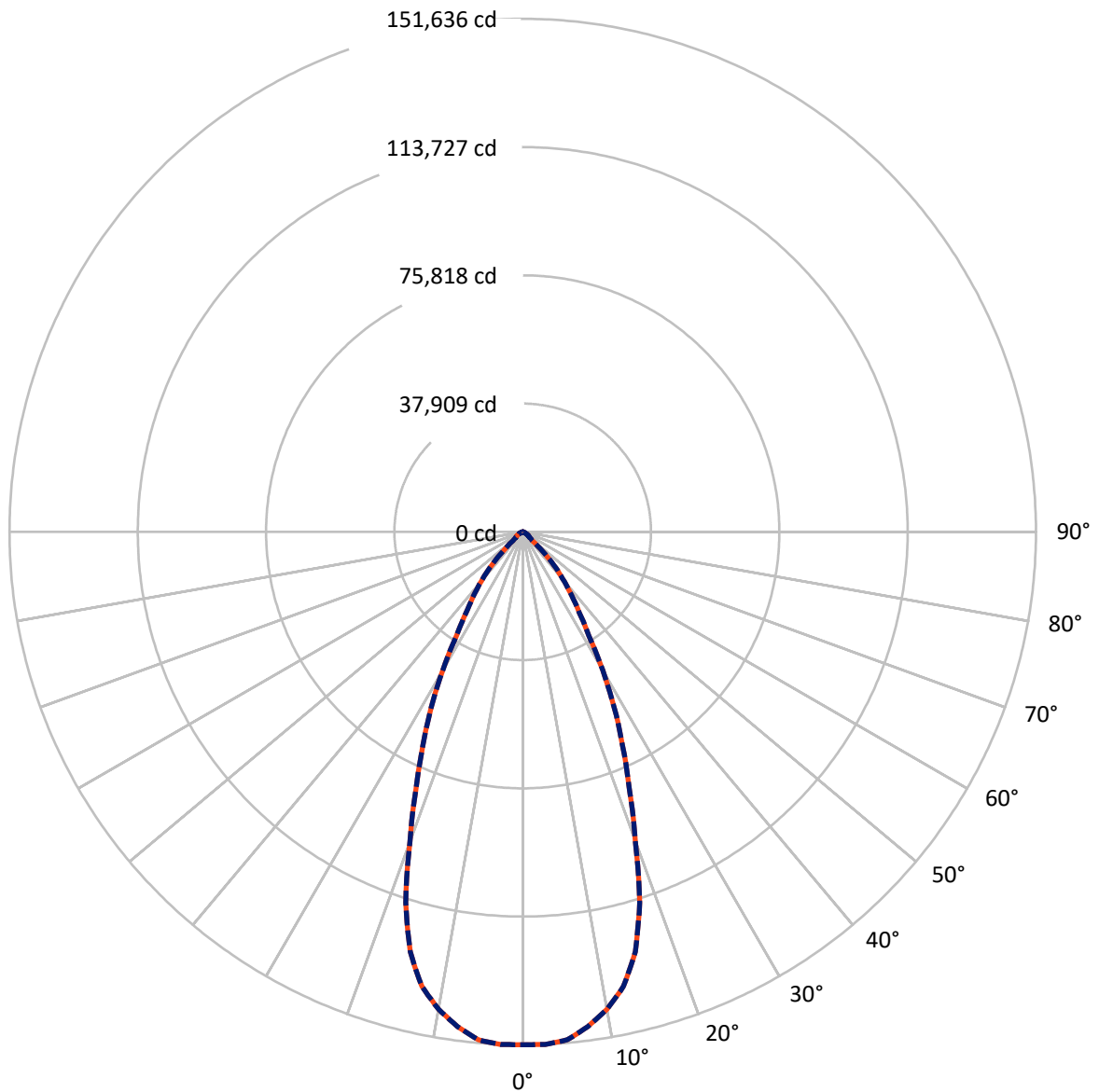
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Lumen Table

90																
80	0.1	1.0		3.5		7.5		9.5		7.5		3.5		1.0		0.1
70																
60	0.5	0.6	1.9	4.8	9.8	16.0	21.6	24.9	24.9	21.6	16.0	9.8	4.8	1.9	0.6	0.5
50		1.4	5.6	15.3	29.8	45.5	57.4	63.7	63.7	57.4	45.5	29.8	15.3	5.6	1.4	
40	1.1	3.0	12.5	31.7	54.7	98.6	200.9	282.8	282.8	200.9	98.6	54.7	31.7	12.5	3.0	1.1
30		5.3	21.1	47.4	137.6	416.4	703.1	900.8	900.8	703.1	416.4	137.6	47.4	21.1	5.3	
20	2.1	7.7	29.2	77.9	378.4	860.8	1540.5	2067.7	2067.7	1540.5	860.8	378.4	77.9	29.2	7.7	2.1
10		9.8	34.5	150.6	600.1	1449.8	2694.1	3670.5	3670.5	2694.1	1449.8	600.1	150.6	34.5	9.8	
0	2.6	11.0	37.1	205.8	746.7	1889.0	3563.6	4448.3	4448.3	3563.6	1889.0	746.7	205.8	37.1	11.0	2.6
-10		11.0	37.1	205.8	746.7	1889.0	3563.6	4448.3	4448.3	3563.6	1889.0	746.7	205.8	37.1	11.0	
-20	2.1	9.8	34.5	150.6	600.1	1449.8	2694.1	3670.5	3670.5	2694.1	1449.8	600.1	150.6	34.5	9.8	2.1
-30		7.7	29.2	77.9	378.4	860.8	1540.5	2067.7	2067.7	1540.5	860.8	378.4	77.9	29.2	7.7	
-40	1.1	5.3	21.1	47.4	137.6	416.4	703.1	900.8	900.8	703.1	416.4	137.6	47.4	21.1	5.3	1.1
-50		3.0	12.5	31.7	54.7	98.6	200.9	282.8	282.8	200.9	98.6	54.7	31.7	12.5	3.0	
-60	0.5	1.4	5.6	15.3	29.8	45.5	57.4	63.7	63.7	57.4	45.5	29.8	15.3	5.6	1.4	0.5
-70		0.6	1.9	4.8	9.8	16.0	21.6	24.9	24.9	21.6	16.0	9.8	4.8	1.9	0.6	
-80																
-90	0.1	1.0		3.5		7.5		9.5		7.5		3.5		1.0		0.1

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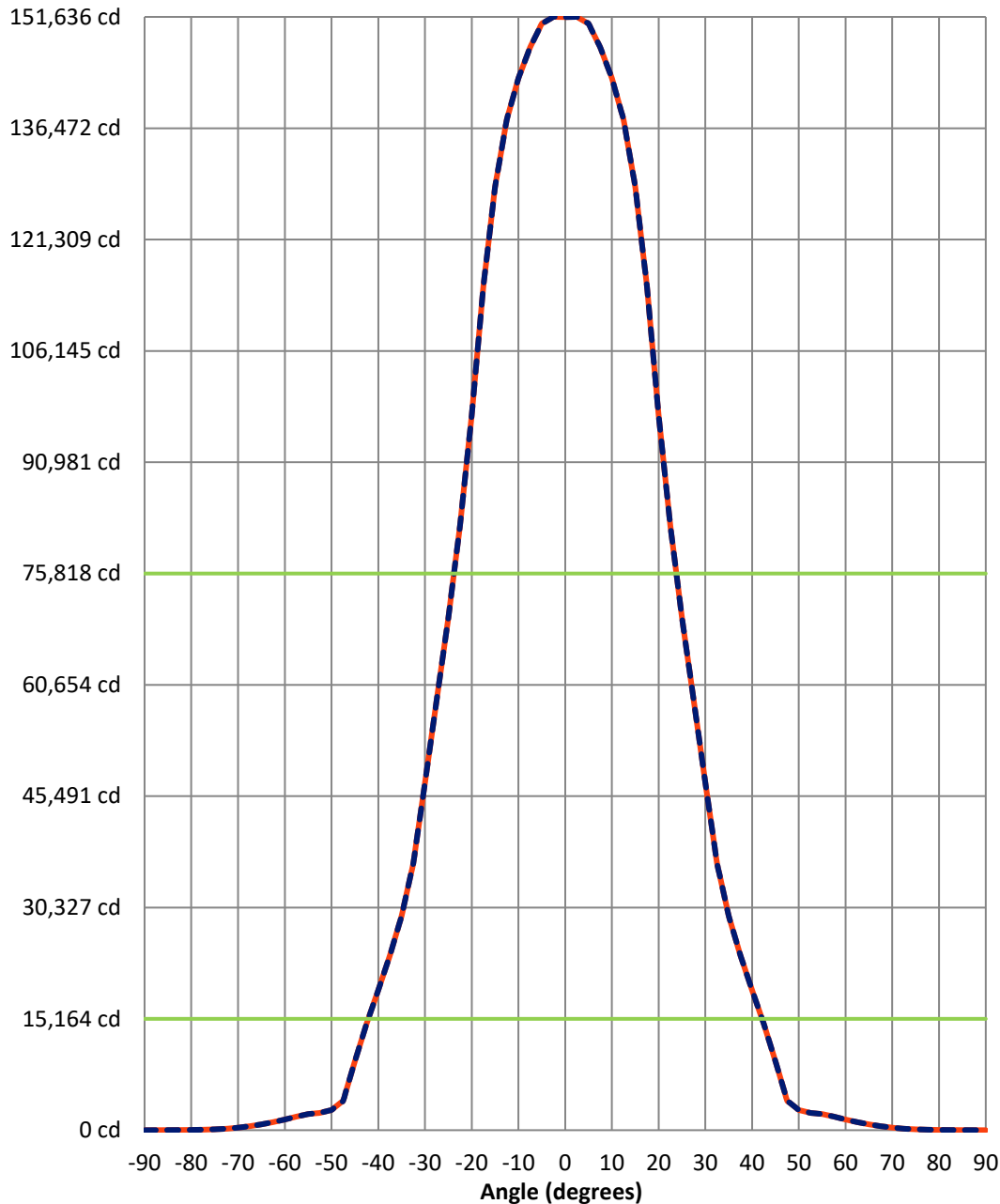
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 47.6°
 V Angle: 47.6°
 Lumens: 62179.2
 Efficiency: 56.1%

Field:
 H Angle: 84.3°
 V Angle: 84.3°
 Lumens: 103272.1
 Efficiency: 93.2%

Spill:
 Lumens: 7564.3
 Efficiency: 6.8%

- Vertical Distribution through -2.5-Deg
- - - Horizontal Distribution through -2.5-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	0.3	0.6	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1
85°	0.0	0.6	1.3	1.9	2.6	3.2	3.8	4.4	5.1	5.7	6.2
82.5°	0.0	1.0	1.9	2.9	3.8	4.8	5.7	6.7	7.6	8.5	9.3
80°	0.0	1.3	2.6	3.8	5.1	6.4	7.6	8.8	10.0	11.2	12.4
77.5°	0.0	1.6	3.2	4.8	6.4	7.9	9.5	11.0	12.5	14.0	15.6
75°	0.0	1.9	3.8	5.7	7.6	9.5	11.3	13.1	15.0	17.2	19.4
72.5°	0.0	2.2	4.4	6.7	8.8	11.0	13.1	15.4	18.0	20.6	23.2
70°	0.0	2.5	5.1	7.6	10.0	12.5	15.0	18.0	21.0	24.0	28.1
67.5°	0.0	2.8	5.7	8.5	11.2	14.0	17.2	20.6	24.0	28.7	33.2
65°	0.0	3.1	6.2	9.3	12.4	15.6	19.4	23.2	28.1	33.2	40.2
62.5°	0.0	3.4	6.8	10.2	13.5	17.4	21.6	26.4	32.1	38.9	51.6
60°	0.0	3.7	7.4	11.0	14.6	19.2	23.7	29.8	36.0	49.0	62.7
57.5°	0.0	4.0	7.9	11.8	16.0	20.9	26.4	33.2	43.8	58.8	79.6
55°	0.0	4.2	8.5	12.6	17.3	22.5	29.3	36.4	52.3	70.1	98.9
52.5°	0.0	4.5	9.0	13.4	18.6	24.3	32.0	43.3	60.6	87.0	117.6
50°	0.0	4.8	9.5	14.2	19.9	26.5	34.6	50.3	70.6	103.4	143.2
47.5°	0.0	5.0	10.0	14.9	21.1	28.6	37.6	57.1	84.6	119.2	168.8
45°	0.0	5.2	10.4	15.8	22.3	30.6	43.2	63.7	98.2	141.2	193.4
42.5°	0.0	5.5	10.9	16.6	23.4	32.6	48.6	72.9	111.2	162.5	235.5
40°	0.0	5.7	11.3	17.4	24.6	34.4	53.7	83.7	125.4	182.9	278.7
37.5°	0.0	5.9	11.7	18.2	26.1	36.2	58.6	94.1	142.6	207.2	320.0
35°	0.0	6.1	12.1	18.9	27.4	39.3	63.2	103.8	158.9	242.2	364.5
32.5°	0.0	6.2	12.4	19.6	28.7	42.9	68.6	113.0	174.2	275.2	414.8
30°	0.0	6.4	12.7	20.2	29.8	46.3	75.9	122.5	188.5	306.1	462.0
27.5°	0.0	6.6	13.0	20.8	30.9	49.4	82.8	134.1	206.3	334.9	505.9
25°	0.0	6.7	13.3	21.3	31.9	52.3	89.0	144.8	229.7	367.6	546.8
22.5°	0.0	6.8	13.6	21.8	32.8	54.9	94.8	154.5	251.1	400.7	593.0
20°	0.0	7.0	13.8	22.2	33.7	57.3	99.9	163.3	270.3	430.4	634.7
17.5°	0.0	7.1	14.0	22.6	34.4	59.4	104.5	171.1	287.4	456.9	671.8
15°	0.0	7.1	14.2	23.0	35.0	61.2	108.5	177.9	302.4	480.0	704.2
12.5°	0.0	7.2	14.4	23.2	35.6	62.7	111.8	183.7	315.0	499.7	731.8
10°	0.0	7.3	14.5	23.5	36.0	64.0	114.6	188.4	325.5	515.8	754.4
7.5°	0.0	7.3	14.6	23.7	36.4	65.0	116.8	192.1	333.6	528.4	772.1
5°	0.0	7.4	14.6	23.8	36.6	65.7	118.4	194.8	339.4	537.5	784.8
2.5°	0.0	7.4	14.7	23.9	36.8	66.2	119.3	196.4	342.9	542.9	792.5
0°	0.0	7.4	14.7	23.9	36.8	66.3	119.6	196.9	344.1	544.7	795.0
-2.5°	0.0	7.4	14.7	23.9	36.8	66.3	119.6	196.9	344.1	544.7	795.0
-5°	0.0	7.4	14.6	23.8	36.6	65.7	118.4	194.8	339.4	537.5	784.8
-7.5°	0.0	7.3	14.6	23.7	36.4	65.0	116.8	192.1	333.6	528.4	772.1
-10°	0.0	7.3	14.5	23.5	36.0	64.0	114.6	188.4	325.5	515.8	754.4
-12.5°	0.0	7.2	14.4	23.2	35.6	62.7	111.8	183.7	315.0	499.7	731.8
-15°	0.0	7.1	14.2	23.0	35.0	61.2	108.5	177.9	302.4	480.0	704.2
-17.5°	0.0	7.1	14.0	22.6	34.4	59.4	104.5	171.1	287.4	456.9	671.8
-20°	0.0	7.0	13.8	22.2	33.7	57.3	99.9	163.3	270.3	430.4	634.7



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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	6.8	13.6	21.8	32.8	54.9	94.8	154.5	251.1	400.7	593.0
-25°	0.0	6.7	13.3	21.3	31.9	52.3	89.0	144.8	229.7	367.6	546.8
-27.5°	0.0	6.6	13.0	20.8	30.9	49.4	82.8	134.1	206.3	334.9	505.9
-30°	0.0	6.4	12.7	20.2	29.8	46.3	75.9	122.5	188.5	306.1	462.0
-32.5°	0.0	6.2	12.4	19.6	28.7	42.9	68.6	113.0	174.2	275.2	414.8
-35°	0.0	6.1	12.1	18.9	27.4	39.3	63.2	103.8	158.9	242.2	364.5
-37.5°	0.0	5.9	11.7	18.2	26.1	36.2	58.6	94.1	142.6	207.2	320.0
-40°	0.0	5.7	11.3	17.4	24.6	34.4	53.7	83.7	125.4	182.9	278.7
-42.5°	0.0	5.5	10.9	16.6	23.4	32.6	48.6	72.9	111.2	162.5	235.5
-45°	0.0	5.2	10.4	15.8	22.3	30.6	43.2	63.7	98.2	141.2	193.4
-47.5°	0.0	5.0	10.0	14.9	21.1	28.6	37.6	57.1	84.6	119.2	168.8
-50°	0.0	4.8	9.5	14.2	19.9	26.5	34.6	50.3	70.6	103.4	143.2
-52.5°	0.0	4.5	9.0	13.4	18.6	24.3	32.0	43.3	60.6	87.0	117.6
-55°	0.0	4.2	8.5	12.6	17.3	22.5	29.3	36.4	52.3	70.1	98.9
-57.5°	0.0	4.0	7.9	11.8	16.0	20.9	26.4	33.2	43.8	58.8	79.6
-60°	0.0	3.7	7.4	11.0	14.6	19.2	23.7	29.8	36.0	49.0	62.7
-62.5°	0.0	3.4	6.8	10.2	13.5	17.4	21.6	26.4	32.1	38.9	51.6
-65°	0.0	3.1	6.2	9.3	12.4	15.6	19.4	23.2	28.1	33.2	40.2
-67.5°	0.0	2.8	5.7	8.5	11.2	14.0	17.2	20.6	24.0	28.7	33.2
-70°	0.0	2.5	5.1	7.6	10.0	12.5	15.0	18.0	21.0	24.0	28.1
-72.5°	0.0	2.2	4.4	6.7	8.8	11.0	13.1	15.4	18.0	20.6	23.2
-75°	0.0	1.9	3.8	5.7	7.6	9.5	11.3	13.1	15.0	17.2	19.4
-77.5°	0.0	1.6	3.2	4.8	6.4	7.9	9.5	11.0	12.5	14.0	15.6
-80°	0.0	1.3	2.6	3.8	5.1	6.4	7.6	8.8	10.0	11.2	12.4
-82.5°	0.0	1.0	1.9	2.9	3.8	4.8	5.7	6.7	7.6	8.5	9.3
-85°	0.0	0.6	1.3	1.9	2.6	3.2	3.8	4.4	5.1	5.7	6.2
-87.5°	0.0	0.3	0.6	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1
-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°	3.4	3.7	4.0	4.2	4.5	4.8	5.0	5.2	5.5	5.7	5.9
85°	6.8	7.4	7.9	8.5	9.0	9.5	10.0	10.4	10.9	11.3	11.7
82.5°	10.2	11.0	11.8	12.6	13.4	14.2	14.9	15.8	16.6	17.4	18.2
80°	13.5	14.6	16.0	17.3	18.6	19.9	21.1	22.3	23.4	24.6	26.1
77.5°	17.4	19.2	20.9	22.5	24.3	26.5	28.6	30.6	32.6	34.4	36.2
75°	21.6	23.7	26.4	29.3	32.0	34.6	37.6	43.2	48.6	53.7	58.6
72.5°	26.4	29.8	33.2	36.4	43.3	50.3	57.1	63.7	72.9	83.7	94.1
70°	32.1	36.0	43.8	52.3	60.6	70.6	84.6	98.2	111.2	125.4	142.6
67.5°	38.9	49.0	58.8	70.1	87.0	103.4	119.2	141.2	162.5	182.9	207.2
65°	51.6	62.7	79.6	98.9	117.6	143.2	168.8	193.4	235.5	278.7	320.0
62.5°	64.1	84.4	106.1	130.7	160.6	189.7	236.8	288.6	338.4	401.5	463.6
60°	84.4	108.5	137.7	171.1	209.9	270.3	328.9	400.7	475.0	546.8	631.9
57.5°	106.1	137.7	174.6	223.4	290.6	360.5	447.1	531.0	628.5	725.4	823.2
55°	130.7	171.1	223.4	297.4	379.1	475.3	574.7	687.6	797.1	925.1	1047.7
52.5°	160.6	209.9	290.6	379.1	484.7	598.3	723.4	855.7	998.9	1142.5	1295.4
50°	189.7	270.3	360.5	475.3	598.3	735.4	885.2	1043.6	1211.9	1383.0	1559.9
47.5°	236.8	328.9	447.1	574.7	723.4	885.2	1058.5	1246.9	1436.0	1641.1	1840.6
45°	288.6	400.7	531.0	687.6	855.7	1043.6	1246.9	1453.8	1682.0	1896.2	2079.8
42.5°	338.4	475.0	628.5	797.1	998.9	1211.9	1436.0	1682.0	1914.2	2116.2	2250.3
40°	401.5	546.8	725.4	925.1	1142.5	1383.0	1641.1	1896.2	2116.2	2258.6	2351.1
37.5°	463.6	631.9	823.2	1047.7	1295.4	1559.9	1840.6	2079.8	2250.3	2351.1	2597.3
35°	522.6	712.7	930.9	1174.6	1441.4	1738.2	2007.4	2225.5	2334.1	2574.8	3031.4
32.5°	586.7	789.2	1032.8	1302.7	1597.0	1900.4	2164.4	2300.6	2507.8	2883.8	3787.9
30°	651.9	875.5	1133.1	1423.3	1745.3	2038.5	2251.0	2397.5	2705.4	3562.1	6003.8
27.5°	712.7	957.3	1236.6	1547.2	1880.2	2168.0	2313.3	2571.3	3191.1	4708.7	8896.3
25°	768.9	1032.8	1332.4	1665.8	1991.4	2240.0	2396.6	2733.5	3751.8	7248.1	11486.1
22.5°	825.8	1102.2	1420.2	1774.7	2093.5	2289.5	2535.4	3164.1	4992.4	9597.8	13862.2
20°	882.4	1174.6	1505.9	1870.9	2186.2	2334.5	2661.8	3603.6	6995.4	11625.1	15894.2
17.5°	932.8	1239.1	1586.3	1946.8	2231.4	2405.2	2816.0	3998.3	8798.0	13454.0	17661.3
15°	976.9	1295.4	1656.7	2013.3	2263.9	2496.9	3136.3	5309.5	10333.8	15022.6	19230.0
12.5°	1014.4	1343.4	1716.8	2070.1	2291.6	2575.3	3410.8	6568.8	11617.5	16269.0	20638.6
10°	1045.2	1383.0	1766.3	2117.0	2314.5	2640.1	3637.8	7611.5	12682.1	17304.7	21811.7
7.5°	1069.4	1413.9	1805.0	2153.6	2332.4	2690.9	3815.8	8430.5	13519.3	18120.5	22737.4
5°	1086.6	1436.0	1832.7	2179.9	2345.3	2727.4	3943.9	9019.8	14122.5	18708.9	23406.1
2.5°	1097.0	1449.4	1849.4	2195.7	2353.0	2749.4	4021.0	9375.2	14486.4	19064.2	23810.4
0°	1100.5	1453.8	1855.0	2201.0	2355.6	2756.7	4046.8	9494.0	14608.1	19183.1	23945.7
-2.5°	1097.0	1449.4	1849.4	2195.7	2353.0	2749.4	4021.0	9375.2	14486.4	19064.2	23810.4
-5°	1086.6	1436.0	1832.7	2179.9	2345.3	2727.4	3943.9	9019.8	14122.5	18708.9	23406.1
-7.5°	1069.4	1413.9	1805.0	2153.6	2332.4	2690.9	3815.8	8430.5	13519.3	18120.5	22737.4
-10°	1045.2	1383.0	1766.3	2117.0	2314.5	2640.1	3637.8	7611.5	12682.1	17304.7	21811.7
-12.5°	1014.4	1343.4	1716.8	2070.1	2291.6	2575.3	3410.8	6568.8	11617.5	16269.0	20638.6
-15°	976.9	1295.4	1656.7	2013.3	2263.9	2496.9	3136.3	5309.5	10333.8	15022.6	19230.0
-17.5°	932.8	1239.1	1586.3	1946.8	2231.4	2405.2	2816.0	3998.3	8798.0	13454.0	17661.3
-20°	882.4	1174.6	1505.9	1870.9	2186.2	2334.5	2661.8	3603.6	6995.4	11625.1	15894.2



REPORT NUMBER: P731274 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	825.8	1102.2	1420.2	1774.7	2093.5	2289.5	2535.4	3164.1	4992.4	9597.8	13862.2
-25°	768.9	1032.8	1332.4	1665.8	1991.4	2240.0	2396.6	2733.5	3751.8	7248.1	11486.1
-27.5°	712.7	957.3	1236.6	1547.2	1880.2	2168.0	2313.3	2571.3	3191.1	4708.7	8896.3
-30°	651.9	875.5	1133.1	1423.3	1745.3	2038.5	2251.0	2397.5	2705.4	3562.1	6003.8
-32.5°	586.7	789.2	1032.8	1302.7	1597.0	1900.4	2164.4	2300.6	2507.8	2883.8	3787.9
-35°	522.6	712.7	930.9	1174.6	1441.4	1738.2	2007.4	2225.5	2334.1	2574.8	3031.4
-37.5°	463.6	631.9	823.2	1047.7	1295.4	1559.9	1840.6	2079.8	2250.3	2351.1	2597.3
-40°	401.5	546.8	725.4	925.1	1142.5	1383.0	1641.1	1896.2	2116.2	2258.6	2351.1
-42.5°	338.4	475.0	628.5	797.1	998.9	1211.9	1436.0	1682.0	1914.2	2116.2	2250.3
-45°	288.6	400.7	531.0	687.6	855.7	1043.6	1246.9	1453.8	1682.0	1896.2	2079.8
-47.5°	236.8	328.9	447.1	574.7	723.4	885.2	1058.5	1246.9	1436.0	1641.1	1840.6
-50°	189.7	270.3	360.5	475.3	598.3	735.4	885.2	1043.6	1211.9	1383.0	1559.9
-52.5°	160.6	209.9	290.6	379.1	484.7	598.3	723.4	855.7	998.9	1142.5	1295.4
-55°	130.7	171.1	223.4	297.4	379.1	475.3	574.7	687.6	797.1	925.1	1047.7
-57.5°	106.1	137.7	174.6	223.4	290.6	360.5	447.1	531.0	628.5	725.4	823.2
-60°	84.4	108.5	137.7	171.1	209.9	270.3	328.9	400.7	475.0	546.8	631.9
-62.5°	64.1	84.4	106.1	130.7	160.6	189.7	236.8	288.6	338.4	401.5	463.6
-65°	51.6	62.7	79.6	98.9	117.6	143.2	168.8	193.4	235.5	278.7	320.0
-67.5°	38.9	49.0	58.8	70.1	87.0	103.4	119.2	141.2	162.5	182.9	207.2
-70°	32.1	36.0	43.8	52.3	60.6	70.6	84.6	98.2	111.2	125.4	142.6
-72.5°	26.4	29.8	33.2	36.4	43.3	50.3	57.1	63.7	72.9	83.7	94.1
-75°	21.6	23.7	26.4	29.3	32.0	34.6	37.6	43.2	48.6	53.7	58.6
-77.5°	17.4	19.2	20.9	22.5	24.3	26.5	28.6	30.6	32.6	34.4	36.2
-80°	13.5	14.6	16.0	17.3	18.6	19.9	21.1	22.3	23.4	24.6	26.1
-82.5°	10.2	11.0	11.8	12.6	13.4	14.2	14.9	15.8	16.6	17.4	18.2
-85°	6.8	7.4	7.9	8.5	9.0	9.5	10.0	10.4	10.9	11.3	11.7
-87.5°	3.4	3.7	4.0	4.2	4.5	4.8	5.0	5.2	5.5	5.7	5.9
-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°	6.1	6.2	6.4	6.6	6.7	6.8	7.0	7.1	7.1	7.2	7.3
85°	12.1	12.4	12.7	13.0	13.3	13.6	13.8	14.0	14.2	14.4	14.5
82.5°	18.9	19.6	20.2	20.8	21.3	21.8	22.2	22.6	23.0	23.2	23.5
80°	27.4	28.7	29.8	30.9	31.9	32.8	33.7	34.4	35.0	35.6	36.0
77.5°	39.3	42.9	46.3	49.4	52.3	54.9	57.3	59.4	61.2	62.7	64.0
75°	63.2	68.6	75.9	82.8	89.0	94.8	99.9	104.5	108.5	111.8	114.6
72.5°	103.8	113.0	122.5	134.1	144.8	154.5	163.3	171.1	177.9	183.7	188.4
70°	158.9	174.2	188.5	206.3	229.7	251.1	270.3	287.4	302.4	315.0	325.5
67.5°	242.2	275.2	306.1	334.9	367.6	400.7	430.4	456.9	480.0	499.7	515.8
65°	364.5	414.8	462.0	505.9	546.8	593.0	634.7	671.8	704.2	731.8	754.4
62.5°	522.6	586.7	651.9	712.7	768.9	825.8	882.4	932.8	976.9	1014.4	1045.2
60°	712.7	789.2	875.5	957.3	1032.8	1102.2	1174.6	1239.1	1295.4	1343.4	1383.0
57.5°	930.9	1032.8	1133.1	1236.6	1332.4	1420.2	1505.9	1586.3	1656.7	1716.8	1766.3
55°	1174.6	1302.7	1423.3	1547.2	1665.8	1774.7	1870.9	1946.8	2013.3	2070.1	2117.0
52.5°	1441.4	1597.0	1745.3	1880.2	1991.4	2093.5	2186.2	2231.4	2263.9	2291.6	2314.5
50°	1738.2	1900.4	2038.5	2168.0	2240.0	2289.5	2334.5	2405.2	2496.9	2575.3	2640.1
47.5°	2007.4	2164.4	2251.0	2313.3	2396.6	2535.4	2661.8	2816.0	3136.3	3410.8	3637.8
45°	2225.5	2300.6	2397.5	2571.3	2733.5	3164.1	3603.6	3998.3	5309.5	6568.8	7611.5
42.5°	2334.1	2507.8	2705.4	3191.1	3751.8	4992.4	6995.4	8798.0	10333.8	11617.5	12682.1
40°	2574.8	2883.8	3562.1	4708.7	7248.1	9597.8	11625.1	13454.0	15022.6	16269.0	17304.7
37.5°	3031.4	3787.9	6003.8	8896.3	11486.1	13862.2	15894.2	17661.3	19230.0	20638.6	21811.7
35°	3863.6	6658.6	9875.8	12770.8	15407.1	17687.5	19814.7	21801.0	23567.7	25252.8	26702.3
32.5°	6658.6	10192.6	13421.2	16302.4	18910.8	21443.7	23798.0	26211.1	28383.0	30584.4	32703.7
30°	9875.8	13421.2	16603.5	19545.4	22440.9	25328.8	28200.4	31330.7	34487.5	37592.6	41151.6
27.5°	12770.8	16302.4	19545.4	22776.7	26116.9	29447.0	33583.0	37812.4	43076.7	47694.3	51669.9
25°	15407.1	18910.8	22440.9	26116.9	29999.3	34731.0	40558.1	46868.6	52682.9	57828.1	62174.9
22.5°	17687.5	21443.7	25328.8	29447.0	34731.0	41486.3	48829.7	55777.1	62095.0	67687.6	72762.6
20°	19814.7	23798.0	28200.4	33583.0	40558.1	48829.7	56826.5	64284.8	71244.9	78200.8	84443.7
17.5°	21801.0	26211.1	31330.7	37812.4	46868.6	55777.1	64284.8	72574.5	81020.2	89800.3	97822.3
15°	23567.7	28383.0	34487.5	43076.7	52682.9	62095.0	71244.9	81020.2	91637.6	102347.0	112848.8
12.5°	25252.8	30584.4	37592.6	47694.3	57828.1	67687.6	78200.8	89800.3	102347.0	115399.5	124423.3
10°	26702.3	32703.7	41151.6	51669.9	62174.9	72762.6	84443.7	97822.3	112848.8	124423.3	133102.5
7.5°	27848.8	34384.5	43984.0	54847.6	65659.4	77147.3	90322.5	105493.0	120277.7	131353.7	138369.1
5°	28678.4	35603.6	46043.9	57166.5	68213.5	80379.8	94690.1	111313.0	125305.4	135385.1	141564.4
2.5°	29180.6	36342.6	47295.1	58578.5	69773.8	82362.9	97385.2	114933.8	128471.0	137618.5	143280.6
0°	29348.8	36590.3	47714.8	59052.8	70298.7	83031.6	98296.8	116164.0	129553.9	138304.5	143867.6
-2.5°	29180.6	36342.6	47295.1	58578.5	69773.8	82362.9	97385.2	114933.8	128471.0	137618.5	143280.6
-5°	28678.4	35603.6	46043.9	57166.5	68213.5	80379.8	94690.1	111313.0	125305.4	135385.1	141564.4
-7.5°	27848.8	34384.5	43984.0	54847.6	65659.4	77147.3	90322.5	105493.0	120277.7	131353.7	138369.1
-10°	26702.3	32703.7	41151.6	51669.9	62174.9	72762.6	84443.7	97822.3	112848.8	124423.3	133102.5
-12.5°	25252.8	30584.4	37592.6	47694.3	57828.1	67687.6	78200.8	89800.3	102347.0	115399.5	124423.3
-15°	23567.7	28383.0	34487.5	43076.7	52682.9	62095.0	71244.9	81020.2	91637.6	102347.0	112848.8
-17.5°	21801.0	26211.1	31330.7	37812.4	46868.6	55777.1	64284.8	72574.5	81020.2	89800.3	97822.3
-20°	19814.7	23798.0	28200.4	33583.0	40558.1	48829.7	56826.5	64284.8	71244.9	78200.8	84443.7



REPORT NUMBER: P731274 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	17687.5	21443.7	25328.8	29447.0	34731.0	41486.3	48829.7	55777.1	62095.0	67687.6	72762.6
-25°	15407.1	18910.8	22440.9	26116.9	29999.3	34731.0	40558.1	46868.6	52682.9	57828.1	62174.9
-27.5°	12770.8	16302.4	19545.4	22776.7	26116.9	29447.0	33583.0	37812.4	43076.7	47694.3	51669.9
-30°	9875.8	13421.2	16603.5	19545.4	22440.9	25328.8	28200.4	31330.7	34487.5	37592.6	41151.6
-32.5°	6658.6	10192.6	13421.2	16302.4	18910.8	21443.7	23798.0	26211.1	28383.0	30584.4	32703.7
-35°	3863.6	6658.6	9875.8	12770.8	15407.1	17687.5	19814.7	21801.0	23567.7	25252.8	26702.3
-37.5°	3031.4	3787.9	6003.8	8896.3	11486.1	13862.2	15894.2	17661.3	19230.0	20638.6	21811.7
-40°	2574.8	2883.8	3562.1	4708.7	7248.1	9597.8	11625.1	13454.0	15022.6	16269.0	17304.7
-42.5°	2334.1	2507.8	2705.4	3191.1	3751.8	4992.4	6995.4	8798.0	10333.8	11617.5	12682.1
-45°	2225.5	2300.6	2397.5	2571.3	2733.5	3164.1	3603.6	3998.3	5309.5	6568.8	7611.5
-47.5°	2007.4	2164.4	2251.0	2313.3	2396.6	2535.4	2661.8	2816.0	3136.3	3410.8	3637.8
-50°	1738.2	1900.4	2038.5	2168.0	2240.0	2289.5	2334.5	2405.2	2496.9	2575.3	2640.1
-52.5°	1441.4	1597.0	1745.3	1880.2	1991.4	2093.5	2186.2	2231.4	2263.9	2291.6	2314.5
-55°	1174.6	1302.7	1423.3	1547.2	1665.8	1774.7	1870.9	1946.8	2013.3	2070.1	2117.0
-57.5°	930.9	1032.8	1133.1	1236.6	1332.4	1420.2	1505.9	1586.3	1656.7	1716.8	1766.3
-60°	712.7	789.2	875.5	957.3	1032.8	1102.2	1174.6	1239.1	1295.4	1343.4	1383.0
-62.5°	522.6	586.7	651.9	712.7	768.9	825.8	882.4	932.8	976.9	1014.4	1045.2
-65°	364.5	414.8	462.0	505.9	546.8	593.0	634.7	671.8	704.2	731.8	754.4
-67.5°	242.2	275.2	306.1	334.9	367.6	400.7	430.4	456.9	480.0	499.7	515.8
-70°	158.9	174.2	188.5	206.3	229.7	251.1	270.3	287.4	302.4	315.0	325.5
-72.5°	103.8	113.0	122.5	134.1	144.8	154.5	163.3	171.1	177.9	183.7	188.4
-75°	63.2	68.6	75.9	82.8	89.0	94.8	99.9	104.5	108.5	111.8	114.6
-77.5°	39.3	42.9	46.3	49.4	52.3	54.9	57.3	59.4	61.2	62.7	64.0
-80°	27.4	28.7	29.8	30.9	31.9	32.8	33.7	34.4	35.0	35.6	36.0
-82.5°	18.9	19.6	20.2	20.8	21.3	21.8	22.2	22.6	23.0	23.2	23.5
-85°	12.1	12.4	12.7	13.0	13.3	13.6	13.8	14.0	14.2	14.4	14.5
-87.5°	6.1	6.2	6.4	6.6	6.7	6.8	7.0	7.1	7.1	7.2	7.3
-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: P731274 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-5S-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°	7.3	7.4	7.4	7.4	7.4	7.4	7.3	7.3	7.2	7.1	7.1
85°	14.6	14.6	14.7	14.7	14.7	14.6	14.6	14.5	14.4	14.2	14.0
82.5°	23.7	23.8	23.9	23.9	23.9	23.8	23.7	23.5	23.2	23.0	22.6
80°	36.4	36.6	36.8	36.8	36.8	36.6	36.4	36.0	35.6	35.0	34.4
77.5°	65.0	65.7	66.2	66.3	66.2	65.7	65.0	64.0	62.7	61.2	59.4
75°	116.8	118.4	119.3	119.6	119.3	118.4	116.8	114.6	111.8	108.5	104.5
72.5°	192.1	194.8	196.4	196.9	196.4	194.8	192.1	188.4	183.7	177.9	171.1
70°	333.6	339.4	342.9	344.1	342.9	339.4	333.6	325.5	315.0	302.4	287.4
67.5°	528.4	537.5	542.9	544.7	542.9	537.5	528.4	515.8	499.7	480.0	456.9
65°	772.1	784.8	792.5	795.0	792.5	784.8	772.1	754.4	731.8	704.2	671.8
62.5°	1069.4	1086.6	1097.0	1100.5	1097.0	1086.6	1069.4	1045.2	1014.4	976.9	932.8
60°	1413.9	1436.0	1449.4	1453.8	1449.4	1436.0	1413.9	1383.0	1343.4	1295.4	1239.1
57.5°	1805.0	1832.7	1849.4	1855.0	1849.4	1832.7	1805.0	1766.3	1716.8	1656.7	1586.3
55°	2153.6	2179.9	2195.7	2201.0	2195.7	2179.9	2153.6	2117.0	2070.1	2013.3	1946.8
52.5°	2332.4	2345.3	2353.0	2355.6	2353.0	2345.3	2332.4	2314.5	2291.6	2263.9	2231.4
50°	2690.9	2727.4	2749.4	2756.7	2749.4	2727.4	2690.9	2640.1	2575.3	2496.9	2405.2
47.5°	3815.8	3943.9	4021.0	4046.8	4021.0	3943.9	3815.8	3637.8	3410.8	3136.3	2816.0
45°	8430.5	9019.8	9375.2	9494.0	9375.2	9019.8	8430.5	7611.5	6568.8	5309.5	3998.3
42.5°	13519.3	14122.5	14486.4	14608.1	14486.4	14122.5	13519.3	12682.1	11617.5	10333.8	8798.0
40°	18120.5	18708.9	19064.2	19183.1	19064.2	18708.9	18120.5	17304.7	16269.0	15022.6	13454.0
37.5°	22737.4	23406.1	23810.4	23945.7	23810.4	23406.1	22737.4	21811.7	20638.6	19230.0	17661.3
35°	27848.8	28678.4	29180.6	29348.8	29180.6	28678.4	27848.8	26702.3	25252.8	23567.7	21801.0
32.5°	34384.5	35603.6	36342.6	36590.3	36342.6	35603.6	34384.5	32703.7	30584.4	28383.0	26211.1
30°	43984.0	46043.9	47295.1	47714.8	47295.1	46043.9	43984.0	41151.6	37592.6	34487.5	31330.7
27.5°	54847.6	57166.5	58578.5	59052.8	58578.5	57166.5	54847.6	51669.9	47694.3	43076.7	37812.4
25°	65659.4	68213.5	69773.8	70298.7	69773.8	68213.5	65659.4	62174.9	57828.1	52682.9	46868.6
22.5°	77147.3	80379.8	82362.9	83031.6	82362.9	80379.8	77147.3	72762.6	67687.6	62095.0	55777.1
20°	90322.5	94690.1	97385.2	98296.8	97385.2	94690.1	90322.5	84443.7	78200.8	71244.9	64284.8
17.5°	105493.0	111313.0	114933.8	116164.0	114933.8	111313.0	105493.0	97822.3	89800.3	81020.2	72574.5
15°	120277.7	125305.4	128471.0	129553.9	128471.0	125305.4	120277.7	112848.8	102347.0	91637.6	81020.2
12.5°	131353.7	135385.1	137618.5	138304.5	137618.5	135385.1	131353.7	124423.3	115399.5	102347.0	89800.3
10°	138369.1	141564.4	143280.6	143867.6	143280.6	141564.4	138369.1	133102.5	124423.3	112848.8	97822.3
7.5°	142728.1	145702.4	147489.1	148118.7	147489.1	145702.4	142728.1	138369.1	131353.7	120277.7	105493.0
5°	145702.4	148795.1	150713.6	151298.7	150713.6	148795.1	145702.4	141564.4	135385.1	125305.4	111313.0
2.5°	147489.1	150713.6	151635.6	151604.2	151635.6	150713.6	147489.1	143280.6	137618.5	128471.0	114933.8
0°	148118.7	151298.7	151604.2	151019.0	151604.2	151298.7	148118.7	143867.6	138304.5	129553.9	116164.0
-2.5°	147489.1	150713.6	151635.6	151604.2	151635.6	150713.6	147489.1	143280.6	137618.5	128471.0	114933.8
-5°	145702.4	148795.1	150713.6	151298.7	150713.6	148795.1	145702.4	141564.4	135385.1	125305.4	111313.0
-7.5°	142728.1	145702.4	147489.1	148118.7	147489.1	145702.4	142728.1	138369.1	131353.7	120277.7	105493.0
-10°	138369.1	141564.4	143280.6	143867.6	143280.6	141564.4	138369.1	133102.5	124423.3	112848.8	97822.3
-12.5°	131353.7	135385.1	137618.5	138304.5	137618.5	135385.1	131353.7	124423.3	115399.5	102347.0	89800.3
-15°	120277.7	125305.4	128471.0	129553.9	128471.0	125305.4	120277.7	112848.8	102347.0	91637.6	81020.2
-17.5°	105493.0	111313.0	114933.8	116164.0	114933.8	111313.0	105493.0	97822.3	89800.3	81020.2	72574.5
-20°	90322.5	94690.1	97385.2	98296.8	97385.2	94690.1	90322.5	84443.7	78200.8	71244.9	64284.8



REPORT NUMBER: P731274 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	77147.3	80379.8	82362.9	83031.6	82362.9	80379.8	77147.3	72762.6	67687.6	62095.0	55777.1
-25°	65659.4	68213.5	69773.8	70298.7	69773.8	68213.5	65659.4	62174.9	57828.1	52682.9	46868.6
-27.5°	54847.6	57166.5	58578.5	59052.8	58578.5	57166.5	54847.6	51669.9	47694.3	43076.7	37812.4
-30°	43984.0	46043.9	47295.1	47714.8	47295.1	46043.9	43984.0	41151.6	37592.6	34487.5	31330.7
-32.5°	34384.5	35603.6	36342.6	36590.3	36342.6	35603.6	34384.5	32703.7	30584.4	28383.0	26211.1
-35°	27848.8	28678.4	29180.6	29348.8	29180.6	28678.4	27848.8	26702.3	25252.8	23567.7	21801.0
-37.5°	22737.4	23406.1	23810.4	23945.7	23810.4	23406.1	22737.4	21811.7	20638.6	19230.0	17661.3
-40°	18120.5	18708.9	19064.2	19183.1	19064.2	18708.9	18120.5	17304.7	16269.0	15022.6	13454.0
-42.5°	13519.3	14122.5	14486.4	14608.1	14486.4	14122.5	13519.3	12682.1	11617.5	10333.8	8798.0
-45°	8430.5	9019.8	9375.2	9494.0	9375.2	9019.8	8430.5	7611.5	6568.8	5309.5	3998.3
-47.5°	3815.8	3943.9	4021.0	4046.8	4021.0	3943.9	3815.8	3637.8	3410.8	3136.3	2816.0
-50°	2690.9	2727.4	2749.4	2756.7	2749.4	2727.4	2690.9	2640.1	2575.3	2496.9	2405.2
-52.5°	2332.4	2345.3	2353.0	2355.6	2353.0	2345.3	2332.4	2314.5	2291.6	2263.9	2231.4
-55°	2153.6	2179.9	2195.7	2201.0	2195.7	2179.9	2153.6	2117.0	2070.1	2013.3	1946.8
-57.5°	1805.0	1832.7	1849.4	1855.0	1849.4	1832.7	1805.0	1766.3	1716.8	1656.7	1586.3
-60°	1413.9	1436.0	1449.4	1453.8	1449.4	1436.0	1413.9	1383.0	1343.4	1295.4	1239.1
-62.5°	1069.4	1086.6	1097.0	1100.5	1097.0	1086.6	1069.4	1045.2	1014.4	976.9	932.8
-65°	772.1	784.8	792.5	795.0	792.5	784.8	772.1	754.4	731.8	704.2	671.8
-67.5°	528.4	537.5	542.9	544.7	542.9	537.5	528.4	515.8	499.7	480.0	456.9
-70°	333.6	339.4	342.9	344.1	342.9	339.4	333.6	325.5	315.0	302.4	287.4
-72.5°	192.1	194.8	196.4	196.9	196.4	194.8	192.1	188.4	183.7	177.9	171.1
-75°	116.8	118.4	119.3	119.6	119.3	118.4	116.8	114.6	111.8	108.5	104.5
-77.5°	65.0	65.7	66.2	66.3	66.2	65.7	65.0	64.0	62.7	61.2	59.4
-80°	36.4	36.6	36.8	36.8	36.8	36.6	36.4	36.0	35.6	35.0	34.4
-82.5°	23.7	23.8	23.9	23.9	23.9	23.8	23.7	23.5	23.2	23.0	22.6
-85°	14.6	14.6	14.7	14.7	14.7	14.6	14.6	14.5	14.4	14.2	14.0
-87.5°	7.3	7.4	7.4	7.4	7.4	7.4	7.3	7.3	7.2	7.1	7.1
-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°	7.0	6.8	6.7	6.6	6.4	6.2	6.1	5.9	5.7	5.5	5.2
85°	13.8	13.6	13.3	13.0	12.7	12.4	12.1	11.7	11.3	10.9	10.4
82.5°	22.2	21.8	21.3	20.8	20.2	19.6	18.9	18.2	17.4	16.6	15.8
80°	33.7	32.8	31.9	30.9	29.8	28.7	27.4	26.1	24.6	23.4	22.3
77.5°	57.3	54.9	52.3	49.4	46.3	42.9	39.3	36.2	34.4	32.6	30.6
75°	99.9	94.8	89.0	82.8	75.9	68.6	63.2	58.6	53.7	48.6	43.2
72.5°	163.3	154.5	144.8	134.1	122.5	113.0	103.8	94.1	83.7	72.9	63.7
70°	270.3	251.1	229.7	206.3	188.5	174.2	158.9	142.6	125.4	111.2	98.2
67.5°	430.4	400.7	367.6	334.9	306.1	275.2	242.2	207.2	182.9	162.5	141.2
65°	634.7	593.0	546.8	505.9	462.0	414.8	364.5	320.0	278.7	235.5	193.4
62.5°	882.4	825.8	768.9	712.7	651.9	586.7	522.6	463.6	401.5	338.4	288.6
60°	1174.6	1102.2	1032.8	957.3	875.5	789.2	712.7	631.9	546.8	475.0	400.7
57.5°	1505.9	1420.2	1332.4	1236.6	1133.1	1032.8	930.9	823.2	725.4	628.5	531.0
55°	1870.9	1774.7	1665.8	1547.2	1423.3	1302.7	1174.6	1047.7	925.1	797.1	687.6
52.5°	2186.2	2093.5	1991.4	1880.2	1745.3	1597.0	1441.4	1295.4	1142.5	998.9	855.7
50°	2334.5	2289.5	2240.0	2168.0	2038.5	1900.4	1738.2	1559.9	1383.0	1211.9	1043.6
47.5°	2661.8	2535.4	2396.6	2313.3	2251.0	2164.4	2007.4	1840.6	1641.1	1436.0	1246.9
45°	3603.6	3164.1	2733.5	2571.3	2397.5	2300.6	2225.5	2079.8	1896.2	1682.0	1453.8
42.5°	6995.4	4992.4	3751.8	3191.1	2705.4	2507.8	2334.1	2250.3	2116.2	1914.2	1682.0
40°	11625.1	9597.8	7248.1	4708.7	3562.1	2883.8	2574.8	2351.1	2258.6	2116.2	1896.2
37.5°	15894.2	13862.2	11486.1	8896.3	6003.8	3787.9	3031.4	2597.3	2351.1	2250.3	2079.8
35°	19814.7	17687.5	15407.1	12770.8	9875.8	6658.6	3863.6	3031.4	2574.8	2334.1	2225.5
32.5°	23798.0	21443.7	18910.8	16302.4	13421.2	10192.6	6658.6	3787.9	2883.8	2507.8	2300.6
30°	28200.4	25328.8	22440.9	19545.4	16603.5	13421.2	9875.8	6003.8	3562.1	2705.4	2397.5
27.5°	33583.0	29447.0	26116.9	22776.7	19545.4	16302.4	12770.8	8896.3	4708.7	3191.1	2571.3
25°	40558.1	34731.0	29999.3	26116.9	22440.9	18910.8	15407.1	11486.1	7248.1	3751.8	2733.5
22.5°	48829.7	41486.3	34731.0	29447.0	25328.8	21443.7	17687.5	13862.2	9597.8	4992.4	3164.1
20°	56826.5	48829.7	40558.1	33583.0	28200.4	23798.0	19814.7	15894.2	11625.1	6995.4	3603.6
17.5°	64284.8	55777.1	46868.6	37812.4	31330.7	26211.1	21801.0	17661.3	13454.0	8798.0	3998.3
15°	71244.9	62095.0	52682.9	43076.7	34487.5	28383.0	23567.7	19230.0	15022.6	10333.8	5309.5
12.5°	78200.8	67687.6	57828.1	47694.3	37592.6	30584.4	25252.8	20638.6	16269.0	11617.5	6568.8
10°	84443.7	72762.6	62174.9	51669.9	41151.6	32703.7	26702.3	21811.7	17304.7	12682.1	7611.5
7.5°	90322.5	77147.3	65659.4	54847.6	43984.0	34384.5	27848.8	22737.4	18120.5	13519.3	8430.5
5°	94690.1	80379.8	68213.5	57166.5	46043.9	35603.6	28678.4	23406.1	18708.9	14122.5	9019.8
2.5°	97385.2	82362.9	69773.8	58578.5	47295.1	36342.6	29180.6	23810.4	19064.2	14486.4	9375.2
0°	98296.8	83031.6	70298.7	59052.8	47714.8	36590.3	29348.8	23945.7	19183.1	14608.1	9494.0
-2.5°	97385.2	82362.9	69773.8	58578.5	47295.1	36342.6	29180.6	23810.4	19064.2	14486.4	9375.2
-5°	94690.1	80379.8	68213.5	57166.5	46043.9	35603.6	28678.4	23406.1	18708.9	14122.5	9019.8
-7.5°	90322.5	77147.3	65659.4	54847.6	43984.0	34384.5	27848.8	22737.4	18120.5	13519.3	8430.5
-10°	84443.7	72762.6	62174.9	51669.9	41151.6	32703.7	26702.3	21811.7	17304.7	12682.1	7611.5
-12.5°	78200.8	67687.6	57828.1	47694.3	37592.6	30584.4	25252.8	20638.6	16269.0	11617.5	6568.8
-15°	71244.9	62095.0	52682.9	43076.7	34487.5	28383.0	23567.7	19230.0	15022.6	10333.8	5309.5
-17.5°	64284.8	55777.1	46868.6	37812.4	31330.7	26211.1	21801.0	17661.3	13454.0	8798.0	3998.3
-20°	56826.5	48829.7	40558.1	33583.0	28200.4	23798.0	19814.7	15894.2	11625.1	6995.4	3603.6



REPORT NUMBER: P731274 (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°	48829.7	41486.3	34731.0	29447.0	25328.8	21443.7	17687.5	13862.2	9597.8	4992.4	3164.1
-25°	40558.1	34731.0	29999.3	26116.9	22440.9	18910.8	15407.1	11486.1	7248.1	3751.8	2733.5
-27.5°	33583.0	29447.0	26116.9	22776.7	19545.4	16302.4	12770.8	8896.3	4708.7	3191.1	2571.3
-30°	28200.4	25328.8	22440.9	19545.4	16603.5	13421.2	9875.8	6003.8	3562.1	2705.4	2397.5
-32.5°	23798.0	21443.7	18910.8	16302.4	13421.2	10192.6	6658.6	3787.9	2883.8	2507.8	2300.6
-35°	19814.7	17687.5	15407.1	12770.8	9875.8	6658.6	3863.6	3031.4	2574.8	2334.1	2225.5
-37.5°	15894.2	13862.2	11486.1	8896.3	6003.8	3787.9	3031.4	2597.3	2351.1	2250.3	2079.8
-40°	11625.1	9597.8	7248.1	4708.7	3562.1	2883.8	2574.8	2351.1	2258.6	2116.2	1896.2
-42.5°	6995.4	4992.4	3751.8	3191.1	2705.4	2507.8	2334.1	2250.3	2116.2	1914.2	1682.0
-45°	3603.6	3164.1	2733.5	2571.3	2397.5	2300.6	2225.5	2079.8	1896.2	1682.0	1453.8
-47.5°	2661.8	2535.4	2396.6	2313.3	2251.0	2164.4	2007.4	1840.6	1641.1	1436.0	1246.9
-50°	2334.5	2289.5	2240.0	2168.0	2038.5	1900.4	1738.2	1559.9	1383.0	1211.9	1043.6
-52.5°	2186.2	2093.5	1991.4	1880.2	1745.3	1597.0	1441.4	1295.4	1142.5	998.9	855.7
-55°	1870.9	1774.7	1665.8	1547.2	1423.3	1302.7	1174.6	1047.7	925.1	797.1	687.6
-57.5°	1505.9	1420.2	1332.4	1236.6	1133.1	1032.8	930.9	823.2	725.4	628.5	531.0
-60°	1174.6	1102.2	1032.8	957.3	875.5	789.2	712.7	631.9	546.8	475.0	400.7
-62.5°	882.4	825.8	768.9	712.7	651.9	586.7	522.6	463.6	401.5	338.4	288.6
-65°	634.7	593.0	546.8	505.9	462.0	414.8	364.5	320.0	278.7	235.5	193.4
-67.5°	430.4	400.7	367.6	334.9	306.1	275.2	242.2	207.2	182.9	162.5	141.2
-70°	270.3	251.1	229.7	206.3	188.5	174.2	158.9	142.6	125.4	111.2	98.2
-72.5°	163.3	154.5	144.8	134.1	122.5	113.0	103.8	94.1	83.7	72.9	63.7
-75°	99.9	94.8	89.0	82.8	75.9	68.6	63.2	58.6	53.7	48.6	43.2
-77.5°	57.3	54.9	52.3	49.4	46.3	42.9	39.3	36.2	34.4	32.6	30.6
-80°	33.7	32.8	31.9	30.9	29.8	28.7	27.4	26.1	24.6	23.4	22.3
-82.5°	22.2	21.8	21.3	20.8	20.2	19.6	18.9	18.2	17.4	16.6	15.8
-85°	13.8	13.6	13.3	13.0	12.7	12.4	12.1	11.7	11.3	10.9	10.4
-87.5°	7.0	6.8	6.7	6.6	6.4	6.2	6.1	5.9	5.7	5.5	5.2
-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: P731274 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-5S-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°	5.0	4.8	4.5	4.2	4.0	3.7	3.4	3.1	2.8	2.5	2.2
85°	10.0	9.5	9.0	8.5	7.9	7.4	6.8	6.2	5.7	5.1	4.4
82.5°	14.9	14.2	13.4	12.6	11.8	11.0	10.2	9.3	8.5	7.6	6.7
80°	21.1	19.9	18.6	17.3	16.0	14.6	13.5	12.4	11.2	10.0	8.8
77.5°	28.6	26.5	24.3	22.5	20.9	19.2	17.4	15.6	14.0	12.5	11.0
75°	37.6	34.6	32.0	29.3	26.4	23.7	21.6	19.4	17.2	15.0	13.1
72.5°	57.1	50.3	43.3	36.4	33.2	29.8	26.4	23.2	20.6	18.0	15.4
70°	84.6	70.6	60.6	52.3	43.8	36.0	32.1	28.1	24.0	21.0	18.0
67.5°	119.2	103.4	87.0	70.1	58.8	49.0	38.9	33.2	28.7	24.0	20.6
65°	168.8	143.2	117.6	98.9	79.6	62.7	51.6	40.2	33.2	28.1	23.2
62.5°	236.8	189.7	160.6	130.7	106.1	84.4	64.1	51.6	38.9	32.1	26.4
60°	328.9	270.3	209.9	171.1	137.7	108.5	84.4	62.7	49.0	36.0	29.8
57.5°	447.1	360.5	290.6	223.4	174.6	137.7	106.1	79.6	58.8	43.8	33.2
55°	574.7	475.3	379.1	297.4	223.4	171.1	130.7	98.9	70.1	52.3	36.4
52.5°	723.4	598.3	484.7	379.1	290.6	209.9	160.6	117.6	87.0	60.6	43.3
50°	885.2	735.4	598.3	475.3	360.5	270.3	189.7	143.2	103.4	70.6	50.3
47.5°	1058.5	885.2	723.4	574.7	447.1	328.9	236.8	168.8	119.2	84.6	57.1
45°	1246.9	1043.6	855.7	687.6	531.0	400.7	288.6	193.4	141.2	98.2	63.7
42.5°	1436.0	1211.9	998.9	797.1	628.5	475.0	338.4	235.5	162.5	111.2	72.9
40°	1641.1	1383.0	1142.5	925.1	725.4	546.8	401.5	278.7	182.9	125.4	83.7
37.5°	1840.6	1559.9	1295.4	1047.7	823.2	631.9	463.6	320.0	207.2	142.6	94.1
35°	2007.4	1738.2	1441.4	1174.6	930.9	712.7	522.6	364.5	242.2	158.9	103.8
32.5°	2164.4	1900.4	1597.0	1302.7	1032.8	789.2	586.7	414.8	275.2	174.2	113.0
30°	2251.0	2038.5	1745.3	1423.3	1133.1	875.5	651.9	462.0	306.1	188.5	122.5
27.5°	2313.3	2168.0	1880.2	1547.2	1236.6	957.3	712.7	505.9	334.9	206.3	134.1
25°	2396.6	2240.0	1991.4	1665.8	1332.4	1032.8	768.9	546.8	367.6	229.7	144.8
22.5°	2535.4	2289.5	2093.5	1774.7	1420.2	1102.2	825.8	593.0	400.7	251.1	154.5
20°	2661.8	2334.5	2186.2	1870.9	1505.9	1174.6	882.4	634.7	430.4	270.3	163.3
17.5°	2816.0	2405.2	2231.4	1946.8	1586.3	1239.1	932.8	671.8	456.9	287.4	171.1
15°	3136.3	2496.9	2263.9	2013.3	1656.7	1295.4	976.9	704.2	480.0	302.4	177.9
12.5°	3410.8	2575.3	2291.6	2070.1	1716.8	1343.4	1014.4	731.8	499.7	315.0	183.7
10°	3637.8	2640.1	2314.5	2117.0	1766.3	1383.0	1045.2	754.4	515.8	325.5	188.4
7.5°	3815.8	2690.9	2332.4	2153.6	1805.0	1413.9	1069.4	772.1	528.4	333.6	192.1
5°	3943.9	2727.4	2345.3	2179.9	1832.7	1436.0	1086.6	784.8	537.5	339.4	194.8
2.5°	4021.0	2749.4	2353.0	2195.7	1849.4	1449.4	1097.0	792.5	542.9	342.9	196.4
0°	4046.8	2756.7	2355.6	2201.0	1855.0	1453.8	1100.5	795.0	544.7	344.1	196.9
-2.5°	4021.0	2749.4	2353.0	2195.7	1849.4	1449.4	1097.0	792.5	542.9	342.9	196.4
-5°	3943.9	2727.4	2345.3	2179.9	1832.7	1436.0	1086.6	784.8	537.5	339.4	194.8
-7.5°	3815.8	2690.9	2332.4	2153.6	1805.0	1413.9	1069.4	772.1	528.4	333.6	192.1
-10°	3637.8	2640.1	2314.5	2117.0	1766.3	1383.0	1045.2	754.4	515.8	325.5	188.4
-12.5°	3410.8	2575.3	2291.6	2070.1	1716.8	1343.4	1014.4	731.8	499.7	315.0	183.7
-15°	3136.3	2496.9	2263.9	2013.3	1656.7	1295.4	976.9	704.2	480.0	302.4	177.9
-17.5°	2816.0	2405.2	2231.4	1946.8	1586.3	1239.1	932.8	671.8	456.9	287.4	171.1
-20°	2661.8	2334.5	2186.2	1870.9	1505.9	1174.6	882.4	634.7	430.4	270.3	163.3



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2535.4	2289.5	2093.5	1774.7	1420.2	1102.2	825.8	593.0	400.7	251.1	154.5
-25°	2396.6	2240.0	1991.4	1665.8	1332.4	1032.8	768.9	546.8	367.6	229.7	144.8
-27.5°	2313.3	2168.0	1880.2	1547.2	1236.6	957.3	712.7	505.9	334.9	206.3	134.1
-30°	2251.0	2038.5	1745.3	1423.3	1133.1	875.5	651.9	462.0	306.1	188.5	122.5
-32.5°	2164.4	1900.4	1597.0	1302.7	1032.8	789.2	586.7	414.8	275.2	174.2	113.0
-35°	2007.4	1738.2	1441.4	1174.6	930.9	712.7	522.6	364.5	242.2	158.9	103.8
-37.5°	1840.6	1559.9	1295.4	1047.7	823.2	631.9	463.6	320.0	207.2	142.6	94.1
-40°	1641.1	1383.0	1142.5	925.1	725.4	546.8	401.5	278.7	182.9	125.4	83.7
-42.5°	1436.0	1211.9	998.9	797.1	628.5	475.0	338.4	235.5	162.5	111.2	72.9
-45°	1246.9	1043.6	855.7	687.6	531.0	400.7	288.6	193.4	141.2	98.2	63.7
-47.5°	1058.5	885.2	723.4	574.7	447.1	328.9	236.8	168.8	119.2	84.6	57.1
-50°	885.2	735.4	598.3	475.3	360.5	270.3	189.7	143.2	103.4	70.6	50.3
-52.5°	723.4	598.3	484.7	379.1	290.6	209.9	160.6	117.6	87.0	60.6	43.3
-55°	574.7	475.3	379.1	297.4	223.4	171.1	130.7	98.9	70.1	52.3	36.4
-57.5°	447.1	360.5	290.6	223.4	174.6	137.7	106.1	79.6	58.8	43.8	33.2
-60°	328.9	270.3	209.9	171.1	137.7	108.5	84.4	62.7	49.0	36.0	29.8
-62.5°	236.8	189.7	160.6	130.7	106.1	84.4	64.1	51.6	38.9	32.1	26.4
-65°	168.8	143.2	117.6	98.9	79.6	62.7	51.6	40.2	33.2	28.1	23.2
-67.5°	119.2	103.4	87.0	70.1	58.8	49.0	38.9	33.2	28.7	24.0	20.6
-70°	84.6	70.6	60.6	52.3	43.8	36.0	32.1	28.1	24.0	21.0	18.0
-72.5°	57.1	50.3	43.3	36.4	33.2	29.8	26.4	23.2	20.6	18.0	15.4
-75°	37.6	34.6	32.0	29.3	26.4	23.7	21.6	19.4	17.2	15.0	13.1
-77.5°	28.6	26.5	24.3	22.5	20.9	19.2	17.4	15.6	14.0	12.5	11.0
-80°	21.1	19.9	18.6	17.3	16.0	14.6	13.5	12.4	11.2	10.0	8.8
-82.5°	14.9	14.2	13.4	12.6	11.8	11.0	10.2	9.3	8.5	7.6	6.7
-85°	10.0	9.5	9.0	8.5	7.9	7.4	6.8	6.2	5.7	5.1	4.4
-87.5°	5.0	4.8	4.5	4.2	4.0	3.7	3.4	3.1	2.8	2.5	2.2
-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):

	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°	1.9	1.6	1.3	1.0	0.6	0.3	0.0
85°	3.8	3.2	2.6	1.9	1.3	0.6	0.0
82.5°	5.7	4.8	3.8	2.9	1.9	1.0	0.0
80°	7.6	6.4	5.1	3.8	2.6	1.3	0.0
77.5°	9.5	7.9	6.4	4.8	3.2	1.6	0.0
75°	11.3	9.5	7.6	5.7	3.8	1.9	0.0
72.5°	13.1	11.0	8.8	6.7	4.4	2.2	0.0
70°	15.0	12.5	10.0	7.6	5.1	2.5	0.0
67.5°	17.2	14.0	11.2	8.5	5.7	2.8	0.0
65°	19.4	15.6	12.4	9.3	6.2	3.1	0.0
62.5°	21.6	17.4	13.5	10.2	6.8	3.4	0.0
60°	23.7	19.2	14.6	11.0	7.4	3.7	0.0
57.5°	26.4	20.9	16.0	11.8	7.9	4.0	0.0
55°	29.3	22.5	17.3	12.6	8.5	4.2	0.0
52.5°	32.0	24.3	18.6	13.4	9.0	4.5	0.0
50°	34.6	26.5	19.9	14.2	9.5	4.8	0.0
47.5°	37.6	28.6	21.1	14.9	10.0	5.0	0.0
45°	43.2	30.6	22.3	15.8	10.4	5.2	0.0
42.5°	48.6	32.6	23.4	16.6	10.9	5.5	0.0
40°	53.7	34.4	24.6	17.4	11.3	5.7	0.0
37.5°	58.6	36.2	26.1	18.2	11.7	5.9	0.0
35°	63.2	39.3	27.4	18.9	12.1	6.1	0.0
32.5°	68.6	42.9	28.7	19.6	12.4	6.2	0.0
30°	75.9	46.3	29.8	20.2	12.7	6.4	0.0
27.5°	82.8	49.4	30.9	20.8	13.0	6.6	0.0
25°	89.0	52.3	31.9	21.3	13.3	6.7	0.0
22.5°	94.8	54.9	32.8	21.8	13.6	6.8	0.0
20°	99.9	57.3	33.7	22.2	13.8	7.0	0.0
17.5°	104.5	59.4	34.4	22.6	14.0	7.1	0.0
15°	108.5	61.2	35.0	23.0	14.2	7.1	0.0
12.5°	111.8	62.7	35.6	23.2	14.4	7.2	0.0
10°	114.6	64.0	36.0	23.5	14.5	7.3	0.0
7.5°	116.8	65.0	36.4	23.7	14.6	7.3	0.0
5°	118.4	65.7	36.6	23.8	14.6	7.4	0.0
2.5°	119.3	66.2	36.8	23.9	14.7	7.4	0.0
0°	119.6	66.3	36.8	23.9	14.7	7.4	0.0
-2.5°	119.3	66.2	36.8	23.9	14.7	7.4	0.0
-5°	118.4	65.7	36.6	23.8	14.6	7.4	0.0
-7.5°	116.8	65.0	36.4	23.7	14.6	7.3	0.0
-10°	114.6	64.0	36.0	23.5	14.5	7.3	0.0
-12.5°	111.8	62.7	35.6	23.2	14.4	7.2	0.0
-15°	108.5	61.2	35.0	23.0	14.2	7.1	0.0
-17.5°	104.5	59.4	34.4	22.6	14.0	7.1	0.0
-20°	99.9	57.3	33.7	22.2	13.8	7.0	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	94.8	54.9	32.8	21.8	13.6	6.8	0.0
-25°	89.0	52.3	31.9	21.3	13.3	6.7	0.0
-27.5°	82.8	49.4	30.9	20.8	13.0	6.6	0.0
-30°	75.9	46.3	29.8	20.2	12.7	6.4	0.0
-32.5°	68.6	42.9	28.7	19.6	12.4	6.2	0.0
-35°	63.2	39.3	27.4	18.9	12.1	6.1	0.0
-37.5°	58.6	36.2	26.1	18.2	11.7	5.9	0.0
-40°	53.7	34.4	24.6	17.4	11.3	5.7	0.0
-42.5°	48.6	32.6	23.4	16.6	10.9	5.5	0.0
-45°	43.2	30.6	22.3	15.8	10.4	5.2	0.0
-47.5°	37.6	28.6	21.1	14.9	10.0	5.0	0.0
-50°	34.6	26.5	19.9	14.2	9.5	4.8	0.0
-52.5°	32.0	24.3	18.6	13.4	9.0	4.5	0.0
-55°	29.3	22.5	17.3	12.6	8.5	4.2	0.0
-57.5°	26.4	20.9	16.0	11.8	7.9	4.0	0.0
-60°	23.7	19.2	14.6	11.0	7.4	3.7	0.0
-62.5°	21.6	17.4	13.5	10.2	6.8	3.4	0.0
-65°	19.4	15.6	12.4	9.3	6.2	3.1	0.0
-67.5°	17.2	14.0	11.2	8.5	5.7	2.8	0.0
-70°	15.0	12.5	10.0	7.6	5.1	2.5	0.0
-72.5°	13.1	11.0	8.8	6.7	4.4	2.2	0.0
-75°	11.3	9.5	7.6	5.7	3.8	1.9	0.0
-77.5°	9.5	7.9	6.4	4.8	3.2	1.6	0.0
-80°	7.6	6.4	5.1	3.8	2.6	1.3	0.0
-82.5°	5.7	4.8	3.8	2.9	1.9	1.0	0.0
-85°	3.8	3.2	2.6	1.9	1.3	0.6	0.0
-87.5°	1.9	1.6	1.3	1.0	0.6	0.3	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

