

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: P731298 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-57-70-5S-HEG**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731298 (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-57-70-5S-HEG
Description: EPHEBUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 5S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

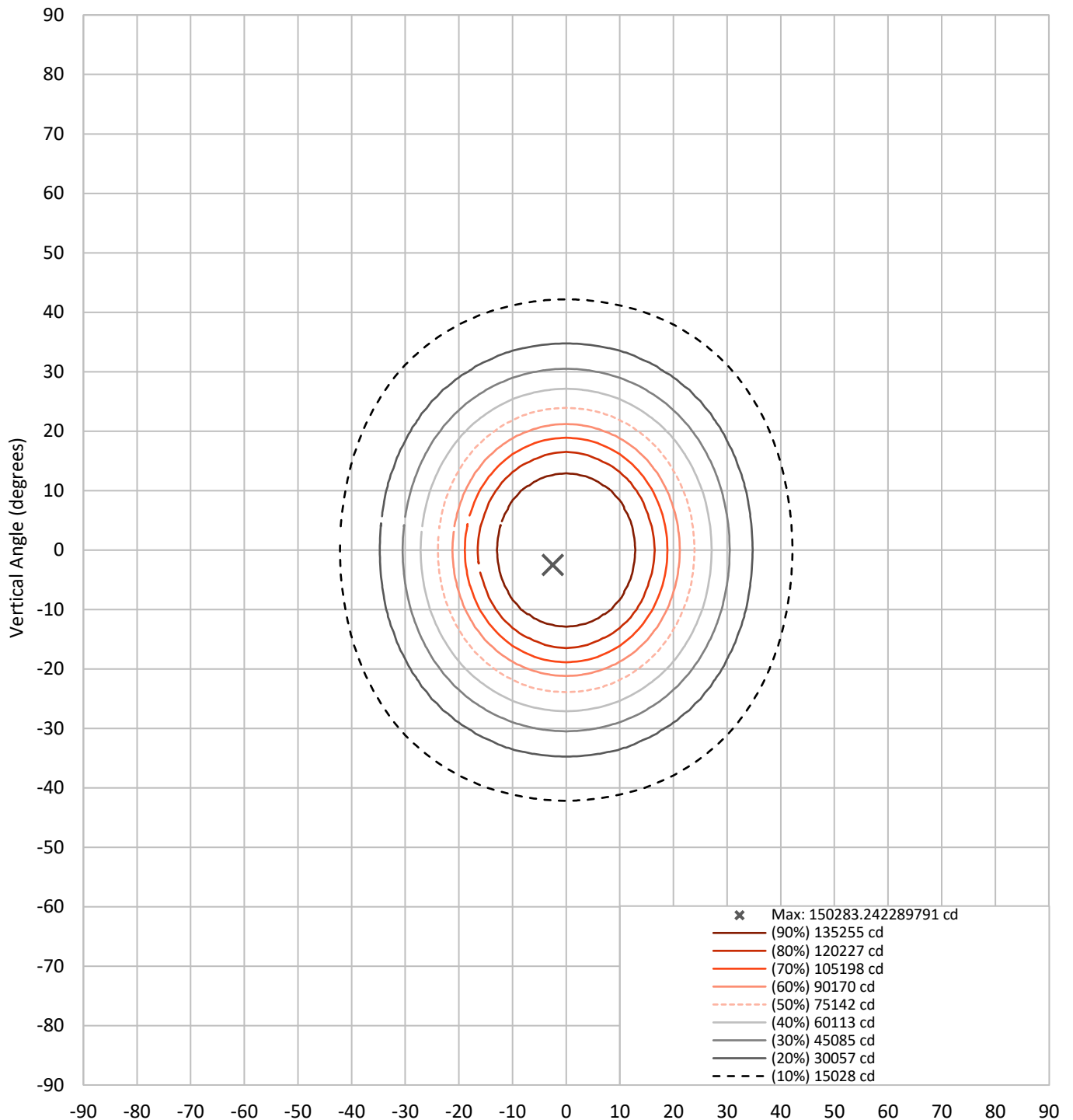
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	109848.1 lumens	Max Intensity:	150283.2 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x -2.5°V
Efficacy:	157.6 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:	61624.7 lumens	Field Lumens:	102351.1 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





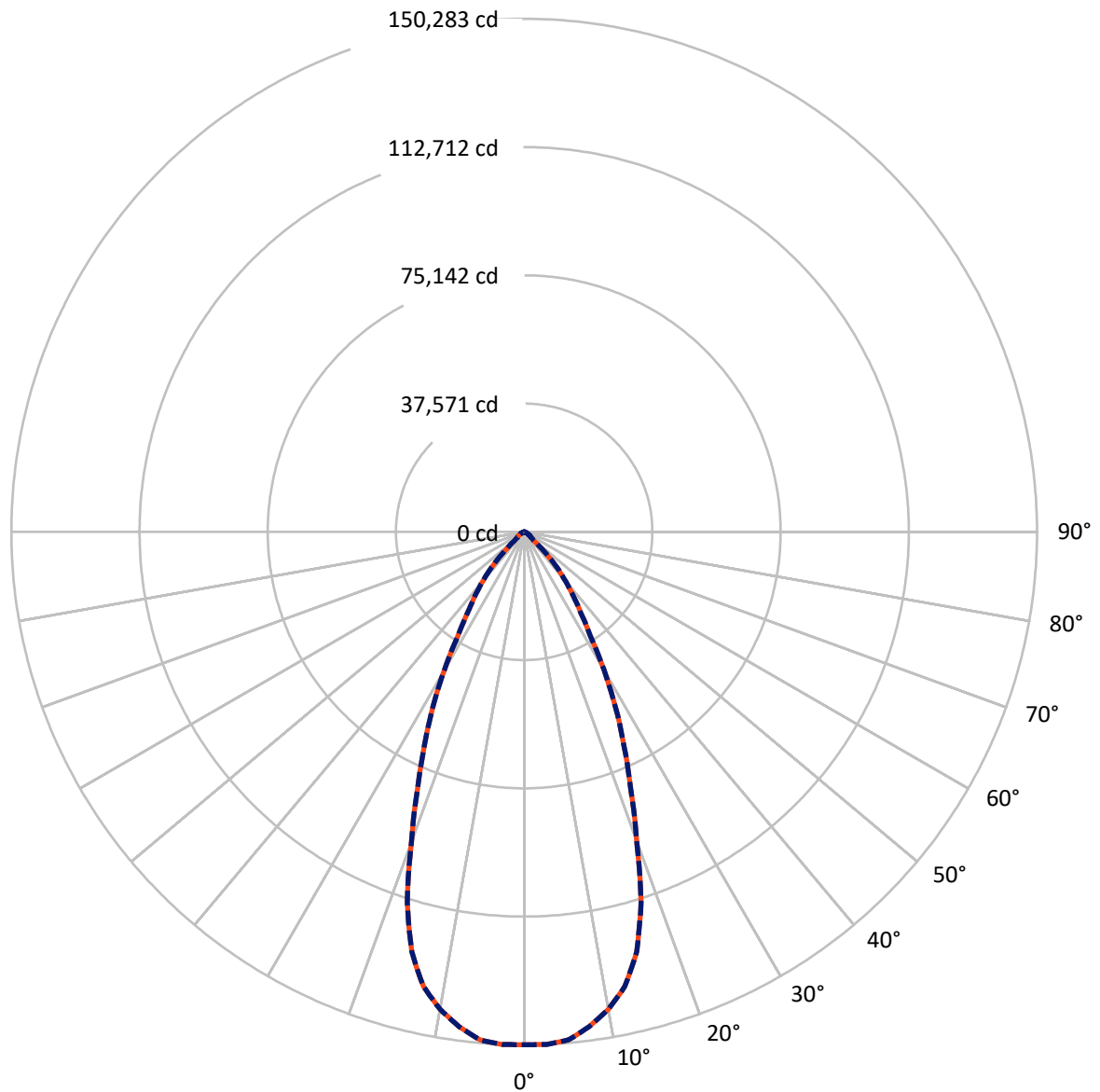
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Lumen Table

90	0.1	1.0	3.5	7.4	9.4	7.4	3.5	1.0	0.1							
80	0.1	1.0	3.5	7.4	9.4	7.4	3.5	1.0	0.1							
70	0.5	0.6	1.8	4.8	9.7	15.8	21.5	24.6	24.6	21.5	15.8	9.7	4.8	1.8	0.6	0.5
60		1.4	5.6	15.1	29.6	45.1	56.8	63.2	63.2	56.8	45.1	29.6	15.1	5.6	1.4	
50	1.1	2.9	12.4	31.4	54.2	97.7	199.1	280.3	280.3	199.1	97.7	54.2	31.4	12.4	2.9	1.1
40		5.2	21.0	46.9	136.4	412.7	696.8	892.8	892.8	696.8	412.7	136.4	46.9	21.0	5.2	
30	2.1	7.7	28.9	77.2	375.0	853.1	1526.8	2049.2	2049.2	1526.8	853.1	375.0	77.2	28.9	7.7	2.1
20		9.8	34.2	149.2	594.7	1436.9	2670.1	3637.8	3637.8	2670.1	1436.9	594.7	149.2	34.2	9.8	
10	2.5	10.9	36.8	204.0	740.1	1872.2	3531.8	4408.6	4408.6	3531.8	1872.2	740.1	204.0	36.8	10.9	2.5
0		10.9	36.8	204.0	740.1	1872.2	3531.8	4408.6	4408.6	3531.8	1872.2	740.1	204.0	36.8	10.9	
-10	2.1	9.8	34.2	149.2	594.7	1436.9	2670.1	3637.8	3637.8	2670.1	1436.9	594.7	149.2	34.2	9.8	2.1
-20		7.7	28.9	77.2	375.0	853.1	1526.8	2049.2	2049.2	1526.8	853.1	375.0	77.2	28.9	7.7	
-30	1.1	5.2	21.0	46.9	136.4	412.7	696.8	892.8	892.8	696.8	412.7	136.4	46.9	21.0	5.2	1.1
-40		2.9	12.4	31.4	54.2	97.7	199.1	280.3	280.3	199.1	97.7	54.2	31.4	12.4	2.9	
-50	0.5	1.4	5.6	15.1	29.6	45.1	56.8	63.2	63.2	56.8	45.1	29.6	15.1	5.6	1.4	0.5
-60		0.6	1.8	4.8	9.7	15.8	21.5	24.6	24.6	21.5	15.8	9.7	4.8	1.8	0.6	
-70	0.1	1.0	3.5	7.4	9.4	7.4	3.5	1.0	0.1							
-80		0.1	1.0	3.5	7.4	9.4	7.4	3.5	1.0	0.1						
-90	0.1	1.0	3.5	7.4	9.4	7.4	3.5	1.0	0.1							

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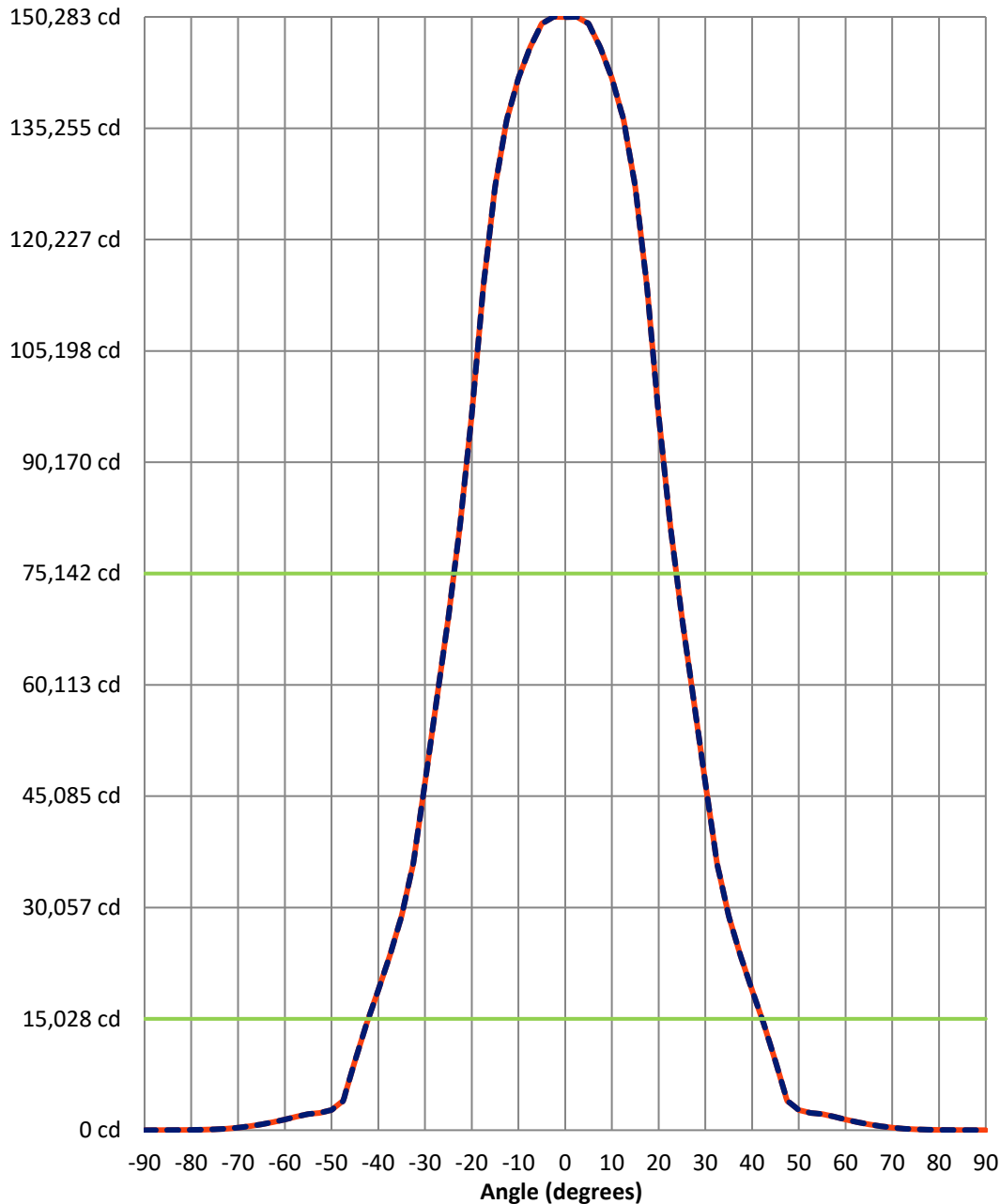
Luminous Intensity Polar Plot



— 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: 61624.7
Efficiency: 56.1%

Field:
H Angle: 84.3°
V Angle: 84.3°
Lumens: 102351.1
Efficiency: 93.2%

Spill:
Lumens: 7497
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	2.5	3.2	3.8	4.4	5.0	5.6	6.2
82.5°	0.0	1.0	1.9	2.9	3.8	4.7	5.7	6.6	7.5	8.4	9.2
80°	0.0	1.3	2.5	3.8	5.0	6.3	7.5	8.7	9.9	11.1	12.3
77.5°	0.0	1.6	3.2	4.7	6.3	7.8	9.4	10.9	12.4	13.9	15.5
75°	0.0	1.9	3.8	5.7	7.5	9.4	11.2	13.0	14.9	17.1	19.3
72.5°	0.0	2.2	4.4	6.6	8.7	10.9	13.0	15.3	17.9	20.5	23.0
70°	0.0	2.5	5.0	7.5	9.9	12.4	14.9	17.9	20.9	23.8	27.9
67.5°	0.0	2.8	5.6	8.4	11.1	13.9	17.1	20.5	23.8	28.4	33.0
65°	0.0	3.1	6.2	9.2	12.3	15.5	19.3	23.0	27.9	33.0	39.9
62.5°	0.0	3.4	6.7	10.1	13.4	17.3	21.4	26.2	31.8	38.6	51.1
60°	0.0	3.6	7.3	10.9	14.5	19.0	23.5	29.6	35.7	48.5	62.2
57.5°	0.0	3.9	7.8	11.7	15.9	20.7	26.2	32.9	43.4	58.3	78.9
55°	0.0	4.2	8.4	12.5	17.2	22.4	29.0	36.2	51.8	69.5	98.0
52.5°	0.0	4.4	8.9	13.3	18.5	24.1	31.7	42.9	60.1	86.3	116.7
50°	0.0	4.7	9.4	14.1	19.7	26.2	34.3	49.9	69.9	102.5	142.0
47.5°	0.0	4.9	9.9	14.8	20.9	28.3	37.3	56.6	83.9	118.2	167.3
45°	0.0	5.2	10.3	15.7	22.1	30.4	42.9	63.1	97.3	140.0	191.8
42.5°	0.0	5.4	10.8	16.5	23.2	32.3	48.2	72.2	110.3	161.1	233.4
40°	0.0	5.6	11.2	17.3	24.4	34.2	53.3	83.0	124.4	181.3	276.3
37.5°	0.0	5.8	11.6	18.0	25.8	35.9	58.1	93.2	141.4	205.4	317.2
35°	0.0	6.0	12.0	18.7	27.2	39.0	62.7	102.9	157.5	240.1	361.3
32.5°	0.0	6.2	12.3	19.4	28.4	42.5	68.0	112.1	172.7	272.8	411.2
30°	0.0	6.3	12.6	20.0	29.6	45.9	75.3	121.5	186.9	303.4	457.9
27.5°	0.0	6.5	12.9	20.6	30.7	49.0	82.0	133.0	204.6	331.9	501.4
25°	0.0	6.6	13.2	21.1	31.7	51.8	88.3	143.6	227.8	364.4	542.0
22.5°	0.0	6.7	13.5	21.6	32.6	54.4	93.9	153.2	248.9	397.1	587.8
20°	0.0	6.9	13.7	22.0	33.4	56.8	99.1	161.9	268.0	426.7	629.1
17.5°	0.0	7.0	13.9	22.4	34.1	58.8	103.6	169.6	284.9	452.9	665.8
15°	0.0	7.1	14.1	22.8	34.7	60.6	107.5	176.4	299.7	475.8	697.9
12.5°	0.0	7.1	14.3	23.0	35.3	62.2	110.9	182.1	312.3	495.3	725.2
10°	0.0	7.2	14.4	23.3	35.7	63.4	113.7	186.8	322.6	511.3	747.7
7.5°	0.0	7.2	14.5	23.5	36.1	64.4	115.8	190.5	330.7	523.8	765.2
5°	0.0	7.3	14.5	23.6	36.3	65.1	117.4	193.1	336.5	532.7	777.8
2.5°	0.0	7.3	14.6	23.7	36.5	65.6	118.3	194.7	339.9	538.1	785.4
0°	0.0	7.3	14.6	23.7	36.5	65.7	118.6	195.2	341.1	539.9	787.9
-2.5°	0.0	7.3	14.6	23.7	36.5	65.7	118.6	195.2	341.1	539.9	787.9
-5°	0.0	7.3	14.5	23.6	36.3	65.1	117.4	193.1	336.5	532.7	777.8
-7.5°	0.0	7.2	14.5	23.5	36.1	64.4	115.8	190.5	330.7	523.8	765.2
-10°	0.0	7.2	14.4	23.3	35.7	63.4	113.7	186.8	322.6	511.3	747.7
-12.5°	0.0	7.1	14.3	23.0	35.3	62.2	110.9	182.1	312.3	495.3	725.2
-15°	0.0	7.1	14.1	22.8	34.7	60.6	107.5	176.4	299.7	475.8	697.9
-17.5°	0.0	7.0	13.9	22.4	34.1	58.8	103.6	169.6	284.9	452.9	665.8
-20°	0.0	6.9	13.7	22.0	33.4	56.8	99.1	161.9	268.0	426.7	629.1



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 CATALOG NUMBER: EPH-LS-08-0680N-57-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	6.7	13.5	21.6	32.6	54.4	93.9	153.2	248.9	397.1	587.8
-25°	0.0	6.6	13.2	21.1	31.7	51.8	88.3	143.6	227.8	364.4	542.0
-27.5°	0.0	6.5	12.9	20.6	30.7	49.0	82.0	133.0	204.6	331.9	501.4
-30°	0.0	6.3	12.6	20.0	29.6	45.9	75.3	121.5	186.9	303.4	457.9
-32.5°	0.0	6.2	12.3	19.4	28.4	42.5	68.0	112.1	172.7	272.8	411.2
-35°	0.0	6.0	12.0	18.7	27.2	39.0	62.7	102.9	157.5	240.1	361.3
-37.5°	0.0	5.8	11.6	18.0	25.8	35.9	58.1	93.2	141.4	205.4	317.2
-40°	0.0	5.6	11.2	17.3	24.4	34.2	53.3	83.0	124.4	181.3	276.3
-42.5°	0.0	5.4	10.8	16.5	23.2	32.3	48.2	72.2	110.3	161.1	233.4
-45°	0.0	5.2	10.3	15.7	22.1	30.4	42.9	63.1	97.3	140.0	191.8
-47.5°	0.0	4.9	9.9	14.8	20.9	28.3	37.3	56.6	83.9	118.2	167.3
-50°	0.0	4.7	9.4	14.1	19.7	26.2	34.3	49.9	69.9	102.5	142.0
-52.5°	0.0	4.4	8.9	13.3	18.5	24.1	31.7	42.9	60.1	86.3	116.7
-55°	0.0	4.2	8.4	12.5	17.2	22.4	29.0	36.2	51.8	69.5	98.0
-57.5°	0.0	3.9	7.8	11.7	15.9	20.7	26.2	32.9	43.4	58.3	78.9
-60°	0.0	3.6	7.3	10.9	14.5	19.0	23.5	29.6	35.7	48.5	62.2
-62.5°	0.0	3.4	6.7	10.1	13.4	17.3	21.4	26.2	31.8	38.6	51.1
-65°	0.0	3.1	6.2	9.2	12.3	15.5	19.3	23.0	27.9	33.0	39.9
-67.5°	0.0	2.8	5.6	8.4	11.1	13.9	17.1	20.5	23.8	28.4	33.0
-70°	0.0	2.5	5.0	7.5	9.9	12.4	14.9	17.9	20.9	23.8	27.9
-72.5°	0.0	2.2	4.4	6.6	8.7	10.9	13.0	15.3	17.9	20.5	23.0
-75°	0.0	1.9	3.8	5.7	7.5	9.4	11.2	13.0	14.9	17.1	19.3
-77.5°	0.0	1.6	3.2	4.7	6.3	7.8	9.4	10.9	12.4	13.9	15.5
-80°	0.0	1.3	2.5	3.8	5.0	6.3	7.5	8.7	9.9	11.1	12.3
-82.5°	0.0	1.0	1.9	2.9	3.8	4.7	5.7	6.6	7.5	8.4	9.2
-85°	0.0	0.6	1.3	1.9	2.5	3.2	3.8	4.4	5.0	5.6	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



REPORT NUMBER: P731298 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-70-5S-HEG

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	3.6	3.9	4.2	4.4	4.7	4.9	5.2	5.4	5.6	5.8
85°	6.7	7.3	7.8	8.4	8.9	9.4	9.9	10.3	10.8	11.2	11.6
82.5°	10.1	10.9	11.7	12.5	13.3	14.1	14.8	15.7	16.5	17.3	18.0
80°	13.4	14.5	15.9	17.2	18.5	19.7	20.9	22.1	23.2	24.4	25.8
77.5°	17.3	19.0	20.7	22.4	24.1	26.2	28.3	30.4	32.3	34.2	35.9
75°	21.4	23.5	26.2	29.0	31.7	34.3	37.3	42.9	48.2	53.3	58.1
72.5°	26.2	29.6	32.9	36.2	42.9	49.9	56.6	63.1	72.2	83.0	93.2
70°	31.8	35.7	43.4	51.8	60.1	69.9	83.9	97.3	110.3	124.4	141.4
67.5°	38.6	48.5	58.3	69.5	86.3	102.5	118.2	140.0	161.1	181.3	205.4
65°	51.1	62.2	78.9	98.0	116.7	142.0	167.3	191.8	233.4	276.3	317.2
62.5°	63.5	83.7	105.2	129.6	159.2	188.0	234.7	286.1	335.5	398.0	459.5
60°	83.7	107.5	136.5	169.6	208.1	268.0	326.1	397.1	470.9	542.0	626.3
57.5°	105.2	136.5	173.1	221.4	288.1	357.4	443.2	526.3	622.9	719.0	815.9
55°	129.6	169.6	221.4	294.8	375.8	471.1	569.6	681.5	789.9	916.9	1038.4
52.5°	159.2	208.1	288.1	375.8	480.4	593.0	717.0	848.1	990.0	1132.3	1283.9
50°	188.0	268.0	357.4	471.1	593.0	728.8	877.3	1034.3	1201.2	1370.7	1546.0
47.5°	234.7	326.1	443.2	569.6	717.0	877.3	1049.1	1235.9	1423.3	1626.5	1824.3
45°	286.1	397.1	526.3	681.5	848.1	1034.3	1235.9	1440.9	1667.0	1879.3	2061.2
42.5°	335.5	470.9	622.9	789.9	990.0	1201.2	1423.3	1667.0	1897.1	2097.3	2230.2
40°	398.0	542.0	719.0	916.9	1132.3	1370.7	1626.5	1879.3	2097.3	2238.4	2330.1
37.5°	459.5	626.3	815.9	1038.4	1283.9	1546.0	1824.3	2061.2	2230.2	2330.1	2574.2
35°	518.0	706.4	922.6	1164.1	1428.6	1722.7	1989.5	2205.6	2313.3	2551.9	3004.4
32.5°	581.5	782.1	1023.6	1291.1	1582.8	1883.5	2145.0	2280.0	2485.5	2858.2	3754.1
30°	646.1	867.7	1123.0	1410.6	1729.8	2020.3	2230.9	2376.1	2681.3	3530.4	5950.2
27.5°	706.4	948.7	1225.6	1533.4	1863.5	2148.6	2292.7	2548.5	3162.7	4666.7	8816.9
25°	762.0	1023.6	1320.6	1651.0	1973.6	2220.0	2375.2	2709.3	3718.3	7183.4	11383.7
22.5°	818.4	1092.4	1407.6	1758.9	2074.8	2269.1	2512.9	3135.9	4947.9	9512.2	13738.6
20°	874.6	1164.1	1492.5	1854.2	2166.7	2313.7	2638.2	3571.5	6933.0	11521.5	15752.5
17.5°	924.5	1228.0	1572.3	1929.5	2211.5	2383.8	2790.9	3962.6	8719.6	13334.1	17503.8
15°	968.2	1283.9	1642.0	1995.4	2243.6	2474.7	3108.4	5262.1	10241.6	14888.7	19058.5
12.5°	1005.3	1331.5	1701.5	2051.6	2271.1	2552.4	3380.4	6510.2	11513.9	16124.0	20454.6
10°	1035.9	1370.7	1750.6	2098.0	2293.8	2616.6	3605.4	7543.6	12569.0	17150.4	21617.2
7.5°	1059.8	1401.3	1788.9	2134.3	2311.6	2667.0	3781.8	8355.3	13398.8	17958.9	22534.7
5°	1077.0	1423.3	1816.4	2160.4	2324.4	2703.1	3908.7	8939.4	13996.6	18542.0	23197.4
2.5°	1087.3	1436.5	1833.0	2176.1	2332.0	2724.9	3985.2	9291.6	14357.3	18894.2	23598.1
0°	1090.7	1440.9	1838.5	2181.3	2334.6	2732.2	4010.7	9409.3	14477.9	19012.0	23732.2
-2.5°	1087.3	1436.5	1833.0	2176.1	2332.0	2724.9	3985.2	9291.6	14357.3	18894.2	23598.1
-5°	1077.0	1423.3	1816.4	2160.4	2324.4	2703.1	3908.7	8939.4	13996.6	18542.0	23197.4
-7.5°	1059.8	1401.3	1788.9	2134.3	2311.6	2667.0	3781.8	8355.3	13398.8	17958.9	22534.7
-10°	1035.9	1370.7	1750.6	2098.0	2293.8	2616.6	3605.4	7543.6	12569.0	17150.4	21617.2
-12.5°	1005.3	1331.5	1701.5	2051.6	2271.1	2552.4	3380.4	6510.2	11513.9	16124.0	20454.6
-15°	968.2	1283.9	1642.0	1995.4	2243.6	2474.7	3108.4	5262.1	10241.6	14888.7	19058.5
-17.5°	924.5	1228.0	1572.3	1929.5	2211.5	2383.8	2790.9	3962.6	8719.6	13334.1	17503.8
-20°	874.6	1164.1	1492.5	1854.2	2166.7	2313.7	2638.2	3571.5	6933.0	11521.5	15752.5



REPORT NUMBER: P731298 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	818.4	1092.4	1407.6	1758.9	2074.8	2269.1	2512.9	3135.9	4947.9	9512.2	13738.6
-25°	762.0	1023.6	1320.6	1651.0	1973.6	2220.0	2375.2	2709.3	3718.3	7183.4	11383.7
-27.5°	706.4	948.7	1225.6	1533.4	1863.5	2148.6	2292.7	2548.5	3162.7	4666.7	8816.9
-30°	646.1	867.7	1123.0	1410.6	1729.8	2020.3	2230.9	2376.1	2681.3	3530.4	5950.2
-32.5°	581.5	782.1	1023.6	1291.1	1582.8	1883.5	2145.0	2280.0	2485.5	2858.2	3754.1
-35°	518.0	706.4	922.6	1164.1	1428.6	1722.7	1989.5	2205.6	2313.3	2551.9	3004.4
-37.5°	459.5	626.3	815.9	1038.4	1283.9	1546.0	1824.3	2061.2	2230.2	2330.1	2574.2
-40°	398.0	542.0	719.0	916.9	1132.3	1370.7	1626.5	1879.3	2097.3	2238.4	2330.1
-42.5°	335.5	470.9	622.9	789.9	990.0	1201.2	1423.3	1667.0	1897.1	2097.3	2230.2
-45°	286.1	397.1	526.3	681.5	848.1	1034.3	1235.9	1440.9	1667.0	1879.3	2061.2
-47.5°	234.7	326.1	443.2	569.6	717.0	877.3	1049.1	1235.9	1423.3	1626.5	1824.3
-50°	188.0	268.0	357.4	471.1	593.0	728.8	877.3	1034.3	1201.2	1370.7	1546.0
-52.5°	159.2	208.1	288.1	375.8	480.4	593.0	717.0	848.1	990.0	1132.3	1283.9
-55°	129.6	169.6	221.4	294.8	375.8	471.1	569.6	681.5	789.9	916.9	1038.4
-57.5°	105.2	136.5	173.1	221.4	288.1	357.4	443.2	526.3	622.9	719.0	815.9
-60°	83.7	107.5	136.5	169.6	208.1	268.0	326.1	397.1	470.9	542.0	626.3
-62.5°	63.5	83.7	105.2	129.6	159.2	188.0	234.7	286.1	335.5	398.0	459.5
-65°	51.1	62.2	78.9	98.0	116.7	142.0	167.3	191.8	233.4	276.3	317.2
-67.5°	38.6	48.5	58.3	69.5	86.3	102.5	118.2	140.0	161.1	181.3	205.4
-70°	31.8	35.7	43.4	51.8	60.1	69.9	83.9	97.3	110.3	124.4	141.4
-72.5°	26.2	29.6	32.9	36.2	42.9	49.9	56.6	63.1	72.2	83.0	93.2
-75°	21.4	23.5	26.2	29.0	31.7	34.3	37.3	42.9	48.2	53.3	58.1
-77.5°	17.3	19.0	20.7	22.4	24.1	26.2	28.3	30.4	32.3	34.2	35.9
-80°	13.4	14.5	15.9	17.2	18.5	19.7	20.9	22.1	23.2	24.4	25.8
-82.5°	10.1	10.9	11.7	12.5	13.3	14.1	14.8	15.7	16.5	17.3	18.0
-85°	6.7	7.3	7.8	8.4	8.9	9.4	9.9	10.3	10.8	11.2	11.6
-87.5°	3.4	3.6	3.9	4.2	4.4	4.7	4.9	5.2	5.4	5.6	5.8
-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: P731298 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-70-5S-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°	6.0	6.2	6.3	6.5	6.6	6.7	6.9	7.0	7.1	7.1	7.2
85°	12.0	12.3	12.6	12.9	13.2	13.5	13.7	13.9	14.1	14.3	14.4
82.5°	18.7	19.4	20.0	20.6	21.1	21.6	22.0	22.4	22.8	23.0	23.3
80°	27.2	28.4	29.6	30.7	31.7	32.6	33.4	34.1	34.7	35.3	35.7
77.5°	39.0	42.5	45.9	49.0	51.8	54.4	56.8	58.8	60.6	62.2	63.4
75°	62.7	68.0	75.3	82.0	88.3	93.9	99.1	103.6	107.5	110.9	113.7
72.5°	102.9	112.1	121.5	133.0	143.6	153.2	161.9	169.6	176.4	182.1	186.8
70°	157.5	172.7	186.9	204.6	227.8	248.9	268.0	284.9	299.7	312.3	322.6
67.5°	240.1	272.8	303.4	331.9	364.4	397.1	426.7	452.9	475.8	495.3	511.3
65°	361.3	411.2	457.9	501.4	542.0	587.8	629.1	665.8	697.9	725.2	747.7
62.5°	518.0	581.5	646.1	706.4	762.0	818.4	874.6	924.5	968.2	1005.3	1035.9
60°	706.4	782.1	867.7	948.7	1023.6	1092.4	1164.1	1228.0	1283.9	1331.5	1370.7
57.5°	922.6	1023.6	1123.0	1225.6	1320.6	1407.6	1492.5	1572.3	1642.0	1701.5	1750.6
55°	1164.1	1291.1	1410.6	1533.4	1651.0	1758.9	1854.2	1929.5	1995.4	2051.6	2098.0
52.5°	1428.6	1582.8	1729.8	1863.5	1973.6	2074.8	2166.7	2211.5	2243.6	2271.1	2293.8
50°	1722.7	1883.5	2020.3	2148.6	2220.0	2269.1	2313.7	2383.8	2474.7	2552.4	2616.6
47.5°	1989.5	2145.0	2230.9	2292.7	2375.2	2512.9	2638.2	2790.9	3108.4	3380.4	3605.4
45°	2205.6	2280.0	2376.1	2548.5	2709.3	3135.9	3571.5	3962.6	5262.1	6510.2	7543.6
42.5°	2313.3	2485.5	2681.3	3162.7	3718.3	4947.9	6933.0	8719.6	10241.6	11513.9	12569.0
40°	2551.9	2858.2	3530.4	4666.7	7183.4	9512.2	11521.5	13334.1	14888.7	16124.0	17150.4
37.5°	3004.4	3754.1	5950.2	8816.9	11383.7	13738.6	15752.5	17503.8	19058.5	20454.6	21617.2
35°	3829.2	6599.2	9787.7	12656.9	15269.7	17529.7	19638.0	21606.6	23357.5	25027.6	26464.1
32.5°	6599.2	10101.7	13301.6	16157.0	18742.1	21252.5	23585.8	25977.3	28129.8	30311.6	32412.0
30°	9787.7	13301.6	16455.5	19371.1	22240.8	25102.9	27948.9	31051.3	34180.0	37257.3	40784.6
27.5°	12656.9	16157.0	19371.1	22573.6	25884.0	29184.3	33283.5	37475.2	42692.5	47268.9	51209.0
25°	15269.7	18742.1	22240.8	25884.0	29731.7	34421.3	40196.3	46450.5	52213.0	57312.3	61620.3
22.5°	17529.7	21252.5	25102.9	29184.3	34421.3	41116.3	48394.2	55279.6	61541.2	67084.0	72113.7
20°	19638.0	23585.8	27948.9	33283.5	40196.3	48394.2	56319.7	63711.5	70609.6	77503.4	83690.6
17.5°	21606.6	25977.3	31051.3	37475.2	46450.5	55279.6	63711.5	71927.3	80297.6	88999.4	96949.8
15°	23357.5	28129.8	34180.0	42692.5	52213.0	61541.2	70609.6	80297.6	90820.3	101434.2	111842.4
12.5°	25027.6	30311.6	37257.3	47268.9	57312.3	67084.0	77503.4	88999.4	101434.2	114370.3	123313.7
10°	26464.1	32412.0	40784.6	51209.0	61620.3	72113.7	83690.6	96949.8	111842.4	123313.7	131915.4
7.5°	27600.4	34077.9	43591.7	54358.4	65073.8	76459.3	89516.9	104552.1	119205.1	130182.2	137135.0
5°	28422.6	35286.1	45633.2	56656.6	67605.2	79662.9	93845.6	110320.2	124187.9	134177.6	140301.7
2.5°	28920.3	36018.5	46873.2	58056.1	69151.6	81628.4	96516.6	113908.7	127325.2	136391.1	142002.7
0°	29087.0	36264.0	47289.2	58526.1	69671.8	82291.1	97420.1	115128.0	128398.5	137071.0	142584.5
-2.5°	28920.3	36018.5	46873.2	58056.1	69151.6	81628.4	96516.6	113908.7	127325.2	136391.1	142002.7
-5°	28422.6	35286.1	45633.2	56656.6	67605.2	79662.9	93845.6	110320.2	124187.9	134177.6	140301.7
-7.5°	27600.4	34077.9	43591.7	54358.4	65073.8	76459.3	89516.9	104552.1	119205.1	130182.2	137135.0
-10°	26464.1	32412.0	40784.6	51209.0	61620.3	72113.7	83690.6	96949.8	111842.4	123313.7	131915.4
-12.5°	25027.6	30311.6	37257.3	47268.9	57312.3	67084.0	77503.4	88999.4	101434.2	114370.3	123313.7
-15°	23357.5	28129.8	34180.0	42692.5	52213.0	61541.2	70609.6	80297.6	90820.3	101434.2	111842.4
-17.5°	21606.6	25977.3	31051.3	37475.2	46450.5	55279.6	63711.5	71927.3	80297.6	88999.4	96949.8
-20°	19638.0	23585.8	27948.9	33283.5	40196.3	48394.2	56319.7	63711.5	70609.6	77503.4	83690.6



REPORT NUMBER: P731298 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	17529.7	21252.5	25102.9	29184.3	34421.3	41116.3	48394.2	55279.6	61541.2	67084.0	72113.7
-25°	15269.7	18742.1	22240.8	25884.0	29731.7	34421.3	40196.3	46450.5	52213.0	57312.3	61620.3
-27.5°	12656.9	16157.0	19371.1	22573.6	25884.0	29184.3	33283.5	37475.2	42692.5	47268.9	51209.0
-30°	9787.7	13301.6	16455.5	19371.1	22240.8	25102.9	27948.9	31051.3	34180.0	37257.3	40784.6
-32.5°	6599.2	10101.7	13301.6	16157.0	18742.1	21252.5	23585.8	25977.3	28129.8	30311.6	32412.0
-35°	3829.2	6599.2	9787.7	12656.9	15269.7	17529.7	19638.0	21606.6	23357.5	25027.6	26464.1
-37.5°	3004.4	3754.1	5950.2	8816.9	11383.7	13738.6	15752.5	17503.8	19058.5	20454.6	21617.2
-40°	2551.9	2858.2	3530.4	4666.7	7183.4	9512.2	11521.5	13334.1	14888.7	16124.0	17150.4
-42.5°	2313.3	2485.5	2681.3	3162.7	3718.3	4947.9	6933.0	8719.6	10241.6	11513.9	12569.0
-45°	2205.6	2280.0	2376.1	2548.5	2709.3	3135.9	3571.5	3962.6	5262.1	6510.2	7543.6
-47.5°	1989.5	2145.0	2230.9	2292.7	2375.2	2512.9	2638.2	2790.9	3108.4	3380.4	3605.4
-50°	1722.7	1883.5	2020.3	2148.6	2220.0	2269.1	2313.7	2383.8	2474.7	2552.4	2616.6
-52.5°	1428.6	1582.8	1729.8	1863.5	1973.6	2074.8	2166.7	2211.5	2243.6	2271.1	2293.8
-55°	1164.1	1291.1	1410.6	1533.4	1651.0	1758.9	1854.2	1929.5	1995.4	2051.6	2098.0
-57.5°	922.6	1023.6	1123.0	1225.6	1320.6	1407.6	1492.5	1572.3	1642.0	1701.5	1750.6
-60°	706.4	782.1	867.7	948.7	1023.6	1092.4	1164.1	1228.0	1283.9	1331.5	1370.7
-62.5°	518.0	581.5	646.1	706.4	762.0	818.4	874.6	924.5	968.2	1005.3	1035.9
-65°	361.3	411.2	457.9	501.4	542.0	587.8	629.1	665.8	697.9	725.2	747.7
-67.5°	240.1	272.8	303.4	331.9	364.4	397.1	426.7	452.9	475.8	495.3	511.3
-70°	157.5	172.7	186.9	204.6	227.8	248.9	268.0	284.9	299.7	312.3	322.6
-72.5°	102.9	112.1	121.5	133.0	143.6	153.2	161.9	169.6	176.4	182.1	186.8
-75°	62.7	68.0	75.3	82.0	88.3	93.9	99.1	103.6	107.5	110.9	113.7
-77.5°	39.0	42.5	45.9	49.0	51.8	54.4	56.8	58.8	60.6	62.2	63.4
-80°	27.2	28.4	29.6	30.7	31.7	32.6	33.4	34.1	34.7	35.3	35.7
-82.5°	18.7	19.4	20.0	20.6	21.1	21.6	22.0	22.4	22.8	23.0	23.3
-85°	12.0	12.3	12.6	12.9	13.2	13.5	13.7	13.9	14.1	14.3	14.4
-87.5°	6.0	6.2	6.3	6.5	6.6	6.7	6.9	7.0	7.1	7.1	7.2
-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: P731298 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-70-5S-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°	7.2	7.3	7.3	7.3	7.3	7.3	7.2	7.2	7.1	7.1	7.0
85°	14.5	14.5	14.6	14.6	14.6	14.5	14.5	14.4	14.3	14.1	13.9
82.5°	23.5	23.6	23.7	23.7	23.7	23.6	23.5	23.3	23.0	22.8	22.4
80°	36.1	36.3	36.5	36.5	36.5	36.3	36.1	35.7	35.3	34.7	34.1
77.5°	64.4	65.1	65.6	65.7	65.6	65.1	64.4	63.4	62.2	60.6	58.8
75°	115.8	117.4	118.3	118.6	118.3	117.4	115.8	113.7	110.9	107.5	103.6
72.5°	190.5	193.1	194.7	195.2	194.7	193.1	190.5	186.8	182.1	176.4	169.6
70°	330.7	336.5	339.9	341.1	339.9	336.5	330.7	322.6	312.3	299.7	284.9
67.5°	523.8	532.7	538.1	539.9	538.1	532.7	523.8	511.3	495.3	475.8	452.9
65°	765.2	777.8	785.4	787.9	785.4	777.8	765.2	747.7	725.2	697.9	665.8
62.5°	1059.8	1077.0	1087.3	1090.7	1087.3	1077.0	1059.8	1035.9	1005.3	968.2	924.5
60°	1401.3	1423.3	1436.5	1440.9	1436.5	1423.3	1401.3	1370.7	1331.5	1283.9	1228.0
57.5°	1788.9	1816.4	1833.0	1838.5	1833.0	1816.4	1788.9	1750.6	1701.5	1642.0	1572.3
55°	2134.3	2160.4	2176.1	2181.3	2176.1	2160.4	2134.3	2098.0	2051.6	1995.4	1929.5
52.5°	2311.6	2324.4	2332.0	2334.6	2332.0	2324.4	2311.6	2293.8	2271.1	2243.6	2211.5
50°	2667.0	2703.1	2724.9	2732.2	2724.9	2703.1	2667.0	2616.6	2552.4	2474.7	2383.8
47.5°	3781.8	3908.7	3985.2	4010.7	3985.2	3908.7	3781.8	3605.4	3380.4	3108.4	2790.9
45°	8355.3	8939.4	9291.6	9409.3	9291.6	8939.4	8355.3	7543.6	6510.2	5262.1	3962.6
42.5°	13398.8	13996.6	14357.3	14477.9	14357.3	13996.6	13398.8	12569.0	11513.9	10241.6	8719.6
40°	17958.9	18542.0	18894.2	19012.0	18894.2	18542.0	17958.9	17150.4	16124.0	14888.7	13334.1
37.5°	22534.7	23197.4	23598.1	23732.2	23598.1	23197.4	22534.7	21617.2	20454.6	19058.5	17503.8
35°	27600.4	28422.6	28920.3	29087.0	28920.3	28422.6	27600.4	26464.1	25027.6	23357.5	21606.6
32.5°	34077.9	35286.1	36018.5	36264.0	36018.5	35286.1	34077.9	32412.0	30311.6	28129.8	25977.3
30°	43591.7	45633.2	46873.2	47289.2	46873.2	45633.2	43591.7	40784.6	37257.3	34180.0	31051.3
27.5°	54358.4	56656.6	58056.1	58526.1	58056.1	56656.6	54358.4	51209.0	47268.9	42692.5	37475.2
25°	65073.8	67605.2	69151.6	69671.8	69151.6	67605.2	65073.8	61620.3	57312.3	52213.0	46450.5
22.5°	76459.3	79662.9	81628.4	82291.1	81628.4	79662.9	76459.3	72113.7	67084.0	61541.2	55279.6
20°	89516.9	93845.6	96516.6	97420.1	96516.6	93845.6	89516.9	83690.6	77503.4	70609.6	63711.5
17.5°	104552.1	110320.2	113908.7	115128.0	113908.7	110320.2	104552.1	96949.8	88999.4	80297.6	71927.3
15°	119205.1	124187.9	127325.2	128398.5	127325.2	124187.9	119205.1	111842.4	101434.2	90820.3	80297.6
12.5°	130182.2	134177.6	136391.1	137071.0	136391.1	134177.6	130182.2	123313.7	114370.3	101434.2	88999.4
10°	137135.0	140301.7	142002.7	142584.5	142002.7	140301.7	137135.0	131915.4	123313.7	111842.4	96949.8
7.5°	141455.1	144403.0	146173.7	146797.7	146173.7	144403.0	141455.1	137135.0	130182.2	119205.1	104552.1
5°	144403.0	147468.0	149369.4	149949.3	149369.4	147468.0	144403.0	140301.7	134177.6	124187.9	110320.2
2.5°	146173.7	149369.4	150283.2	150252.1	150283.2	149369.4	146173.7	142002.7	136391.1	127325.2	113908.7
0°	146797.7	149949.3	150252.1	149672.1	150252.1	149949.3	146797.7	142584.5	137071.0	128398.5	115128.0
-2.5°	146173.7	149369.4	150283.2	150252.1	150283.2	149369.4	146173.7	142002.7	136391.1	127325.2	113908.7
-5°	144403.0	147468.0	149369.4	149949.3	149369.4	147468.0	144403.0	140301.7	134177.6	124187.9	110320.2
-7.5°	141455.1	144403.0	146173.7	146797.7	146173.7	144403.0	141455.1	137135.0	130182.2	119205.1	104552.1
-10°	137135.0	140301.7	142002.7	142584.5	142002.7	140301.7	137135.0	131915.4	123313.7	111842.4	96949.8
-12.5°	130182.2	134177.6	136391.1	137071.0	136391.1	134177.6	130182.2	123313.7	114370.3	101434.2	88999.4
-15°	119205.1	124187.9	127325.2	128398.5	127325.2	124187.9	119205.1	111842.4	101434.2	90820.3	80297.6
-17.5°	104552.1	110320.2	113908.7	115128.0	113908.7	110320.2	104552.1	96949.8	88999.4	80297.6	71927.3
-20°	89516.9	93845.6	96516.6	97420.1	96516.6	93845.6	89516.9	83690.6	77503.4	70609.6	63711.5



REPORT NUMBER: P731298 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	76459.3	79662.9	81628.4	82291.1	81628.4	79662.9	76459.3	72113.7	67084.0	61541.2	55279.6
-25°	65073.8	67605.2	69151.6	69671.8	69151.6	67605.2	65073.8	61620.3	57312.3	52213.0	46450.5
-27.5°	54358.4	56656.6	58056.1	58526.1	58056.1	56656.6	54358.4	51209.0	47268.9	42692.5	37475.2
-30°	43591.7	45633.2	46873.2	47289.2	46873.2	45633.2	43591.7	40784.6	37257.3	34180.0	31051.3
-32.5°	34077.9	35286.1	36018.5	36264.0	36018.5	35286.1	34077.9	32412.0	30311.6	28129.8	25977.3
-35°	27600.4	28422.6	28920.3	29087.0	28920.3	28422.6	27600.4	26464.1	25027.6	23357.5	21606.6
-37.5°	22534.7	23197.4	23598.1	23732.2	23598.1	23197.4	22534.7	21617.2	20454.6	19058.5	17503.8
-40°	17958.9	18542.0	18894.2	19012.0	18894.2	18542.0	17958.9	17150.4	16124.0	14888.7	13334.1
-42.5°	13398.8	13996.6	14357.3	14477.9	14357.3	13996.6	13398.8	12569.0	11513.9	10241.6	8719.6
-45°	8355.3	8939.4	9291.6	9409.3	9291.6	8939.4	8355.3	7543.6	6510.2	5262.1	3962.6
-47.5°	3781.8	3908.7	3985.2	4010.7	3985.2	3908.7	3781.8	3605.4	3380.4	3108.4	2790.9
-50°	2667.0	2703.1	2724.9	2732.2	2724.9	2703.1	2667.0	2616.6	2552.4	2474.7	2383.8
-52.5°	2311.6	2324.4	2332.0	2334.6	2332.0	2324.4	2311.6	2293.8	2271.1	2243.6	2211.5
-55°	2134.3	2160.4	2176.1	2181.3	2176.1	2160.4	2134.3	2098.0	2051.6	1995.4	1929.5
-57.5°	1788.9	1816.4	1833.0	1838.5	1833.0	1816.4	1788.9	1750.6	1701.5	1642.0	1572.3
-60°	1401.3	1423.3	1436.5	1440.9	1436.5	1423.3	1401.3	1370.7	1331.5	1283.9	1228.0
-62.5°	1059.8	1077.0	1087.3	1090.7	1087.3	1077.0	1059.8	1035.9	1005.3	968.2	924.5
-65°	765.2	777.8	785.4	787.9	785.4	777.8	765.2	747.7	725.2	697.9	665.8
-67.5°	523.8	532.7	538.1	539.9	538.1	532.7	523.8	511.3	495.3	475.8	452.9
-70°	330.7	336.5	339.9	341.1	339.9	336.5	330.7	322.6	312.3	299.7	284.9
-72.5°	190.5	193.1	194.7	195.2	194.7	193.1	190.5	186.8	182.1	176.4	169.6
-75°	115.8	117.4	118.3	118.6	118.3	117.4	115.8	113.7	110.9	107.5	103.6
-77.5°	64.4	65.1	65.6	65.7	65.6	65.1	64.4	63.4	62.2	60.6	58.8
-80°	36.1	36.3	36.5	36.5	36.5	36.3	36.1	35.7	35.3	34.7	34.1
-82.5°	23.5	23.6	23.7	23.7	23.7	23.6	23.5	23.3	23.0	22.8	22.4
-85°	14.5	14.5	14.6	14.6	14.6	14.5	14.5	14.4	14.3	14.1	13.9
-87.5°	7.2	7.3	7.3	7.3	7.3	7.3	7.2	7.2	7.1	7.1	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



REPORT NUMBER: P731298 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-70-5S-HEG

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°	6.9	6.7	6.6	6.5	6.3	6.2	6.0	5.8	5.6	5.4	5.2
85°	13.7	13.5	13.2	12.9	12.6	12.3	12.0	11.6	11.2	10.8	10.3
82.5°	22.0	21.6	21.1	20.6	20.0	19.4	18.7	18.0	17.3	16.5	15.7
80°	33.4	32.6	31.7	30.7	29.6	28.4	27.2	25.8	24.4	23.2	22.1
77.5°	56.8	54.4	51.8	49.0	45.9	42.5	39.0	35.9	34.2	32.3	30.4
75°	99.1	93.9	88.3	82.0	75.3	68.0	62.7	58.1	53.3	48.2	42.9
72.5°	161.9	153.2	143.6	133.0	121.5	112.1	102.9	93.2	83.0	72.2	63.1
70°	268.0	248.9	227.8	204.6	186.9	172.7	157.5	141.4	124.4	110.3	97.3
67.5°	426.7	397.1	364.4	331.9	303.4	272.8	240.1	205.4	181.3	161.1	140.0
65°	629.1	587.8	542.0	501.4	457.9	411.2	361.3	317.2	276.3	233.4	191.8
62.5°	874.6	818.4	762.0	706.4	646.1	581.5	518.0	459.5	398.0	335.5	286.1
60°	1164.1	1092.4	1023.6	948.7	867.7	782.1	706.4	626.3	542.0	470.9	397.1
57.5°	1492.5	1407.6	1320.6	1225.6	1123.0	1023.6	922.6	815.9	719.0	622.9	526.3
55°	1854.2	1758.9	1651.0	1533.4	1410.6	1291.1	1164.1	1038.4	916.9	789.9	681.5
52.5°	2166.7	2074.8	1973.6	1863.5	1729.8	1582.8	1428.6	1283.9	1132.3	990.0	848.1
50°	2313.7	2269.1	2220.0	2148.6	2020.3	1883.5	1722.7	1546.0	1370.7	1201.2	1034.3
47.5°	2638.2	2512.9	2375.2	2292.7	2230.9	2145.0	1989.5	1824.3	1626.5	1423.3	1235.9
45°	3571.5	3135.9	2709.3	2548.5	2376.1	2280.0	2205.6	2061.2	1879.3	1667.0	1440.9
42.5°	6933.0	4947.9	3718.3	3162.7	2681.3	2485.5	2313.3	2230.2	2097.3	1897.1	1667.0
40°	11521.5	9512.2	7183.4	4666.7	3530.4	2858.2	2551.9	2330.1	2238.4	2097.3	1879.3
37.5°	15752.5	13738.6	11383.7	8816.9	5950.2	3754.1	3004.4	2574.2	2330.1	2230.2	2061.2
35°	19638.0	17529.7	15269.7	12656.9	9787.7	6599.2	3829.2	3004.4	2551.9	2313.3	2205.6
32.5°	23585.8	21252.5	18742.1	16157.0	13301.6	10101.7	6599.2	3754.1	2858.2	2485.5	2280.0
30°	27948.9	25102.9	22240.8	19371.1	16455.5	13301.6	9787.7	5950.2	3530.4	2681.3	2376.1
27.5°	33283.5	29184.3	25884.0	22573.6	19371.1	16157.0	12656.9	8816.9	4666.7	3162.7	2548.5
25°	40196.3	34421.3	29731.7	25884.0	22240.8	18742.1	15269.7	11383.7	7183.4	3718.3	2709.3
22.5°	48394.2	41116.3	34421.3	29184.3	25102.9	21252.5	17529.7	13738.6	9512.2	4947.9	3135.9
20°	56319.7	48394.2	40196.3	33283.5	27948.9	23585.8	19638.0	15752.5	11521.5	6933.0	3571.5
17.5°	63711.5	55279.6	46450.5	37475.2	31051.3	25977.3	21606.6	17503.8	13334.1	8719.6	3962.6
15°	70609.6	61541.2	52213.0	42692.5	34180.0	28129.8	23357.5	19058.5	14888.7	10241.6	5262.1
12.5°	77503.4	67084.0	57312.3	47268.9	37257.3	30311.6	25027.6	20454.6	16124.0	11513.9	6510.2
10°	83690.6	72113.7	61620.3	51209.0	40784.6	32412.0	26464.1	21617.2	17150.4	12569.0	7543.6
7.5°	89516.9	76459.3	65073.8	54358.4	43591.7	34077.9	27600.4	22534.7	17958.9	13398.8	8355.3
5°	93845.6	79662.9	67605.2	56656.6	45633.2	35286.1	28422.6	23197.4	18542.0	13996.6	8939.4
2.5°	96516.6	81628.4	69151.6	58056.1	46873.2	36018.5	28920.3	23598.1	18894.2	14357.3	9291.6
0°	97420.1	82291.1	69671.8	58526.1	47289.2	36264.0	29087.0	23732.2	19012.0	14477.9	9409.3
-2.5°	96516.6	81628.4	69151.6	58056.1	46873.2	36018.5	28920.3	23598.1	18894.2	14357.3	9291.6
-5°	93845.6	79662.9	67605.2	56656.6	45633.2	35286.1	28422.6	23197.4	18542.0	13996.6	8939.4
-7.5°	89516.9	76459.3	65073.8	54358.4	43591.7	34077.9	27600.4	22534.7	17958.9	13398.8	8355.3
-10°	83690.6	72113.7	61620.3	51209.0	40784.6	32412.0	26464.1	21617.2	17150.4	12569.0	7543.6
-12.5°	77503.4	67084.0	57312.3	47268.9	37257.3	30311.6	25027.6	20454.6	16124.0	11513.9	6510.2
-15°	70609.6	61541.2	52213.0	42692.5	34180.0	28129.8	23357.5	19058.5	14888.7	10241.6	5262.1
-17.5°	63711.5	55279.6	46450.5	37475.2	31051.3	25977.3	21606.6	17503.8	13334.1	8719.6	3962.6
-20°	56319.7	48394.2	40196.3	33283.5	27948.9	23585.8	19638.0	15752.5	11521.5	6933.0	3571.5



REPORT NUMBER: P731298 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	48394.2	41116.3	34421.3	29184.3	25102.9	21252.5	17529.7	13738.6	9512.2	4947.9	3135.9
-25°	40196.3	34421.3	29731.7	25884.0	22240.8	18742.1	15269.7	11383.7	7183.4	3718.3	2709.3
-27.5°	33283.5	29184.3	25884.0	22573.6	19371.1	16157.0	12656.9	8816.9	4666.7	3162.7	2548.5
-30°	27948.9	25102.9	22240.8	19371.1	16455.5	13301.6	9787.7	5950.2	3530.4	2681.3	2376.1
-32.5°	23585.8	21252.5	18742.1	16157.0	13301.6	10101.7	6599.2	3754.1	2858.2	2485.5	2280.0
-35°	19638.0	17529.7	15269.7	12656.9	9787.7	6599.2	3829.2	3004.4	2551.9	2313.3	2205.6
-37.5°	15752.5	13738.6	11383.7	8816.9	5950.2	3754.1	3004.4	2574.2	2330.1	2230.2	2061.2
-40°	11521.5	9512.2	7183.4	4666.7	3530.4	2858.2	2551.9	2330.1	2238.4	2097.3	1879.3
-42.5°	6933.0	4947.9	3718.3	3162.7	2681.3	2485.5	2313.3	2230.2	2097.3	1897.1	1667.0
-45°	3571.5	3135.9	2709.3	2548.5	2376.1	2280.0	2205.6	2061.2	1879.3	1667.0	1440.9
-47.5°	2638.2	2512.9	2375.2	2292.7	2230.9	2145.0	1989.5	1824.3	1626.5	1423.3	1235.9
-50°	2313.7	2269.1	2220.0	2148.6	2020.3	1883.5	1722.7	1546.0	1370.7	1201.2	1034.3
-52.5°	2166.7	2074.8	1973.6	1863.5	1729.8	1582.8	1428.6	1283.9	1132.3	990.0	848.1
-55°	1854.2	1758.9	1651.0	1533.4	1410.6	1291.1	1164.1	1038.4	916.9	789.9	681.5
-57.5°	1492.5	1407.6	1320.6	1225.6	1123.0	1023.6	922.6	815.9	719.0	622.9	526.3
-60°	1164.1	1092.4	1023.6	948.7	867.7	782.1	706.4	626.3	542.0	470.9	397.1
-62.5°	874.6	818.4	762.0	706.4	646.1	581.5	518.0	459.5	398.0	335.5	286.1
-65°	629.1	587.8	542.0	501.4	457.9	411.2	361.3	317.2	276.3	233.4	191.8
-67.5°	426.7	397.1	364.4	331.9	303.4	272.8	240.1	205.4	181.3	161.1	140.0
-70°	268.0	248.9	227.8	204.6	186.9	172.7	157.5	141.4	124.4	110.3	97.3
-72.5°	161.9	153.2	143.6	133.0	121.5	112.1	102.9	93.2	83.0	72.2	63.1
-75°	99.1	93.9	88.3	82.0	75.3	68.0	62.7	58.1	53.3	48.2	42.9
-77.5°	56.8	54.4	51.8	49.0	45.9	42.5	39.0	35.9	34.2	32.3	30.4
-80°	33.4	32.6	31.7	30.7	29.6	28.4	27.2	25.8	24.4	23.2	22.1
-82.5°	22.0	21.6	21.1	20.6	20.0	19.4	18.7	18.0	17.3	16.5	15.7
-85°	13.7	13.5	13.2	12.9	12.6	12.3	12.0	11.6	11.2	10.8	10.3
-87.5°	6.9	6.7	6.6	6.5	6.3	6.2	6.0	5.8	5.6	5.4	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: P731298 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-70-5S-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°	4.9	4.7	4.4	4.2	3.9	3.6	3.4	3.1	2.8	2.5	2.2
85°	9.9	9.4	8.9	8.4	7.8	7.3	6.7	6.2	5.6	5.0	4.4
82.5°	14.8	14.1	13.3	12.5	11.7	10.9	10.1	9.2	8.4	7.5	6.6
80°	20.9	19.7	18.5	17.2	15.9	14.5	13.4	12.3	11.1	9.9	8.7
77.5°	28.3	26.2	24.1	22.4	20.7	19.0	17.3	15.5	13.9	12.4	10.9
75°	37.3	34.3	31.7	29.0	26.2	23.5	21.4	19.3	17.1	14.9	13.0
72.5°	56.6	49.9	42.9	36.2	32.9	29.6	26.2	23.0	20.5	17.9	15.3
70°	83.9	69.9	60.1	51.8	43.4	35.7	31.8	27.9	23.8	20.9	17.9
67.5°	118.2	102.5	86.3	69.5	58.3	48.5	38.6	33.0	28.4	23.8	20.5
65°	167.3	142.0	116.7	98.0	78.9	62.2	51.1	39.9	33.0	27.9	23.0
62.5°	234.7	188.0	159.2	129.6	105.2	83.7	63.5	51.1	38.6	31.8	26.2
60°	326.1	268.0	208.1	169.6	136.5	107.5	83.7	62.2	48.5	35.7	29.6
57.5°	443.2	357.4	288.1	221.4	173.1	136.5	105.2	78.9	58.3	43.4	32.9
55°	569.6	471.1	375.8	294.8	221.4	169.6	129.6	98.0	69.5	51.8	36.2
52.5°	717.0	593.0	480.4	375.8	288.1	208.1	159.2	116.7	86.3	60.1	42.9
50°	877.3	728.8	593.0	471.1	357.4	268.0	188.0	142.0	102.5	69.9	49.9
47.5°	1049.1	877.3	717.0	569.6	443.2	326.1	234.7	167.3	118.2	83.9	56.6
45°	1235.9	1034.3	848.1	681.5	526.3	397.1	286.1	191.8	140.0	97.3	63.1
42.5°	1423.3	1201.2	990.0	789.9	622.9	470.9	335.5	233.4	161.1	110.3	72.2
40°	1626.5	1370.7	1132.3	916.9	719.0	542.0	398.0	276.3	181.3	124.4	83.0
37.5°	1824.3	1546.0	1283.9	1038.4	815.9	626.3	459.5	317.2	205.4	141.4	93.2
35°	1989.5	1722.7	1428.6	1164.1	922.6	706.4	518.0	361.3	240.1	157.5	102.9
32.5°	2145.0	1883.5	1582.8	1291.1	1023.6	782.1	581.5	411.2	272.8	172.7	112.1
30°	2230.9	2020.3	1729.8	1410.6	1123.0	867.7	646.1	457.9	303.4	186.9	121.5
27.5°	2292.7	2148.6	1863.5	1533.4	1225.6	948.7	706.4	501.4	331.9	204.6	133.0
25°	2375.2	2220.0	1973.6	1651.0	1320.6	1023.6	762.0	542.0	364.4	227.8	143.6
22.5°	2512.9	2269.1	2074.8	1758.9	1407.6	1092.4	818.4	587.8	397.1	248.9	153.2
20°	2638.2	2313.7	2166.7	1854.2	1492.5	1164.1	874.6	629.1	426.7	268.0	161.9
17.5°	2790.9	2383.8	2211.5	1929.5	1572.3	1228.0	924.5	665.8	452.9	284.9	169.6
15°	3108.4	2474.7	2243.6	1995.4	1642.0	1283.9	968.2	697.9	475.8	299.7	176.4
12.5°	3380.4	2552.4	2271.1	2051.6	1701.5	1331.5	1005.3	725.2	495.3	312.3	182.1
10°	3605.4	2616.6	2293.8	2098.0	1750.6	1370.7	1035.9	747.7	511.3	322.6	186.8
7.5°	3781.8	2667.0	2311.6	2134.3	1788.9	1401.3	1059.8	765.2	523.8	330.7	190.5
5°	3908.7	2703.1	2324.4	2160.4	1816.4	1423.3	1077.0	777.8	532.7	336.5	193.1
2.5°	3985.2	2724.9	2332.0	2176.1	1833.0	1436.5	1087.3	785.4	538.1	339.9	194.7
0°	4010.7	2732.2	2334.6	2181.3	1838.5	1440.9	1090.7	787.9	539.9	341.1	195.2
-2.5°	3985.2	2724.9	2332.0	2176.1	1833.0	1436.5	1087.3	785.4	538.1	339.9	194.7
-5°	3908.7	2703.1	2324.4	2160.4	1816.4	1423.3	1077.0	777.8	532.7	336.5	193.1
-7.5°	3781.8	2667.0	2311.6	2134.3	1788.9	1401.3	1059.8	765.2	523.8	330.7	190.5
-10°	3605.4	2616.6	2293.8	2098.0	1750.6	1370.7	1035.9	747.7	511.3	322.6	186.8
-12.5°	3380.4	2552.4	2271.1	2051.6	1701.5	1331.5	1005.3	725.2	495.3	312.3	182.1
-15°	3108.4	2474.7	2243.6	1995.4	1642.0	1283.9	968.2	697.9	475.8	299.7	176.4
-17.5°	2790.9	2383.8	2211.5	1929.5	1572.3	1228.0	924.5	665.8	452.9	284.9	169.6
-20°	2638.2	2313.7	2166.7	1854.2	1492.5	1164.1	874.6	629.1	426.7	268.0	161.9



REPORT NUMBER: P731298 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2512.9	2269.1	2074.8	1758.9	1407.6	1092.4	818.4	587.8	397.1	248.9	153.2
-25°	2375.2	2220.0	1973.6	1651.0	1320.6	1023.6	762.0	542.0	364.4	227.8	143.6
-27.5°	2292.7	2148.6	1863.5	1533.4	1225.6	948.7	706.4	501.4	331.9	204.6	133.0
-30°	2230.9	2020.3	1729.8	1410.6	1123.0	867.7	646.1	457.9	303.4	186.9	121.5
-32.5°	2145.0	1883.5	1582.8	1291.1	1023.6	782.1	581.5	411.2	272.8	172.7	112.1
-35°	1989.5	1722.7	1428.6	1164.1	922.6	706.4	518.0	361.3	240.1	157.5	102.9
-37.5°	1824.3	1546.0	1283.9	1038.4	815.9	626.3	459.5	317.2	205.4	141.4	93.2
-40°	1626.5	1370.7	1132.3	916.9	719.0	542.0	398.0	276.3	181.3	124.4	83.0
-42.5°	1423.3	1201.2	990.0	789.9	622.9	470.9	335.5	233.4	161.1	110.3	72.2
-45°	1235.9	1034.3	848.1	681.5	526.3	397.1	286.1	191.8	140.0	97.3	63.1
-47.5°	1049.1	877.3	717.0	569.6	443.2	326.1	234.7	167.3	118.2	83.9	56.6
-50°	877.3	728.8	593.0	471.1	357.4	268.0	188.0	142.0	102.5	69.9	49.9
-52.5°	717.0	593.0	480.4	375.8	288.1	208.1	159.2	116.7	86.3	60.1	42.9
-55°	569.6	471.1	375.8	294.8	221.4	169.6	129.6	98.0	69.5	51.8	36.2
-57.5°	443.2	357.4	288.1	221.4	173.1	136.5	105.2	78.9	58.3	43.4	32.9
-60°	326.1	268.0	208.1	169.6	136.5	107.5	83.7	62.2	48.5	35.7	29.6
-62.5°	234.7	188.0	159.2	129.6	105.2	83.7	63.5	51.1	38.6	31.8	26.2
-65°	167.3	142.0	116.7	98.0	78.9	62.2	51.1	39.9	33.0	27.9	23.0
-67.5°	118.2	102.5	86.3	69.5	58.3	48.5	38.6	33.0	28.4	23.8	20.5
-70°	83.9	69.9	60.1	51.8	43.4	35.7	31.8	27.9	23.8	20.9	17.9
-72.5°	56.6	49.9	42.9	36.2	32.9	29.6	26.2	23.0	20.5	17.9	15.3
-75°	37.3	34.3	31.7	29.0	26.2	23.5	21.4	19.3	17.1	14.9	13.0
-77.5°	28.3	26.2	24.1	22.4	20.7	19.0	17.3	15.5	13.9	12.4	10.9
-80°	20.9	19.7	18.5	17.2	15.9	14.5	13.4	12.3	11.1	9.9	8.7
-82.5°	14.8	14.1	13.3	12.5	11.7	10.9	10.1	9.2	8.4	7.5	6.6
-85°	9.9	9.4	8.9	8.4	7.8	7.3	6.7	6.2	5.6	5.0	4.4
-87.5°	4.9	4.7	4.4	4.2	3.9	3.6	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



REPORT NUMBER: P731298 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-70-5S-HEG

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	2.5	1.9	1.3	0.6	0.0
82.5°	5.7	4.7	3.8	2.9	1.9	1.0	0.0
80°	7.5	6.3	5.0	3.8	2.5	1.3	0.0
77.5°	9.4	7.8	6.3	4.7	3.2	1.6	0.0
75°	11.2	9.4	7.5	5.7	3.8	1.9	0.0
72.5°	13.0	10.9	8.7	6.6	4.4	2.2	0.0
70°	14.9	12.4	9.9	7.5	5.0	2.5	0.0
67.5°	17.1	13.9	11.1	8.4	5.6	2.8	0.0
65°	19.3	15.5	12.3	9.2	6.2	3.1	0.0
62.5°	21.4	17.3	13.4	10.1	6.7	3.4	0.0
60°	23.5	19.0	14.5	10.9	7.3	3.6	0.0
57.5°	26.2	20.7	15.9	11.7	7.8	3.9	0.0
55°	29.0	22.4	17.2	12.5	8.4	4.2	0.0
52.5°	31.7	24.1	18.5	13.3	8.9	4.4	0.0
50°	34.3	26.2	19.7	14.1	9.4	4.7	0.0
47.5°	37.3	28.3	20.9	14.8	9.9	4.9	0.0
45°	42.9	30.4	22.1	15.7	10.3	5.2	0.0
42.5°	48.2	32.3	23.2	16.5	10.8	5.4	0.0
40°	53.3	34.2	24.4	17.3	11.2	5.6	0.0
37.5°	58.1	35.9	25.8	18.0	11.6	5.8	0.0
35°	62.7	39.0	27.2	18.7	12.0	6.0	0.0
32.5°	68.0	42.5	28.4	19.4	12.3	6.2	0.0
30°	75.3	45.9	29.6	20.0	12.6	6.3	0.0
27.5°	82.0	49.0	30.7	20.6	12.9	6.5	0.0
25°	88.3	51.8	31.7	21.1	13.2	6.6	0.0
22.5°	93.9	54.4	32.6	21.6	13.5	6.7	0.0
20°	99.1	56.8	33.4	22.0	13.7	6.9	0.0
17.5°	103.6	58.8	34.1	22.4	13.9	7.0	0.0
15°	107.5	60.6	34.7	22.8	14.1	7.1	0.0
12.5°	110.9	62.2	35.3	23.0	14.3	7.1	0.0
10°	113.7	63.4	35.7	23.3	14.4	7.2	0.0
7.5°	115.8	64.4	36.1	23.5	14.5	7.2	0.0
5°	117.4	65.1	36.3	23.6	14.5	7.3	0.0
2.5°	118.3	65.6	36.5	23.7	14.6	7.3	0.0
0°	118.6	65.7	36.5	23.7	14.6	7.3	0.0
-2.5°	118.3	65.6	36.5	23.7	14.6	7.3	0.0
-5°	117.4	65.1	36.3	23.6	14.5	7.3	0.0
-7.5°	115.8	64.4	36.1	23.5	14.5	7.2	0.0
-10°	113.7	63.4	35.7	23.3	14.4	7.2	0.0
-12.5°	110.9	62.2	35.3	23.0	14.3	7.1	0.0
-15°	107.5	60.6	34.7	22.8	14.1	7.1	0.0
-17.5°	103.6	58.8	34.1	22.4	13.9	7.0	0.0
-20°	99.1	56.8	33.4	22.0	13.7	6.9	0.0



REPORT NUMBER: P731298 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	93.9	54.4	32.6	21.6	13.5	6.7	0.0
-25°	88.3	51.8	31.7	21.1	13.2	6.6	0.0
-27.5°	82.0	49.0	30.7	20.6	12.9	6.5	0.0
-30°	75.3	45.9	29.6	20.0	12.6	6.3	0.0
-32.5°	68.0	42.5	28.4	19.4	12.3	6.2	0.0
-35°	62.7	39.0	27.2	18.7	12.0	6.0	0.0
-37.5°	58.1	35.9	25.8	18.0	11.6	5.8	0.0
-40°	53.3	34.2	24.4	17.3	11.2	5.6	0.0
-42.5°	48.2	32.3	23.2	16.5	10.8	5.4	0.0
-45°	42.9	30.4	22.1	15.7	10.3	5.2	0.0
-47.5°	37.3	28.3	20.9	14.8	9.9	4.9	0.0
-50°	34.3	26.2	19.7	14.1	9.4	4.7	0.0
-52.5°	31.7	24.1	18.5	13.3	8.9	4.4	0.0
-55°	29.0	22.4	17.2	12.5	8.4	4.2	0.0
-57.5°	26.2	20.7	15.9	11.7	7.8	3.9	0.0
-60°	23.5	19.0	14.5	10.9	7.3	3.6	0.0
-62.5°	21.4	17.3	13.4	10.1	6.7	3.4	0.0
-65°	19.3	15.5	12.3	9.2	6.2	3.1	0.0
-67.5°	17.1	13.9	11.1	8.4	5.6	2.8	0.0
-70°	14.9	12.4	9.9	7.5	5.0	2.5	0.0
-72.5°	13.0	10.9	8.7	6.6	4.4	2.2	0.0
-75°	11.2	9.4	7.5	5.7	3.8	1.9	0.0
-77.5°	9.4	7.8	6.3	4.7	3.2	1.6	0.0
-80°	7.5	6.3	5.0	3.8	2.5	1.3	0.0
-82.5°	5.7	4.7	3.8	2.9	1.9	1.0	0.0
-85°	3.8	3.2	2.5	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

