

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: P731204 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-80-1S-HEG**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731204 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-61)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-40-80-1S-HEG
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 1S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

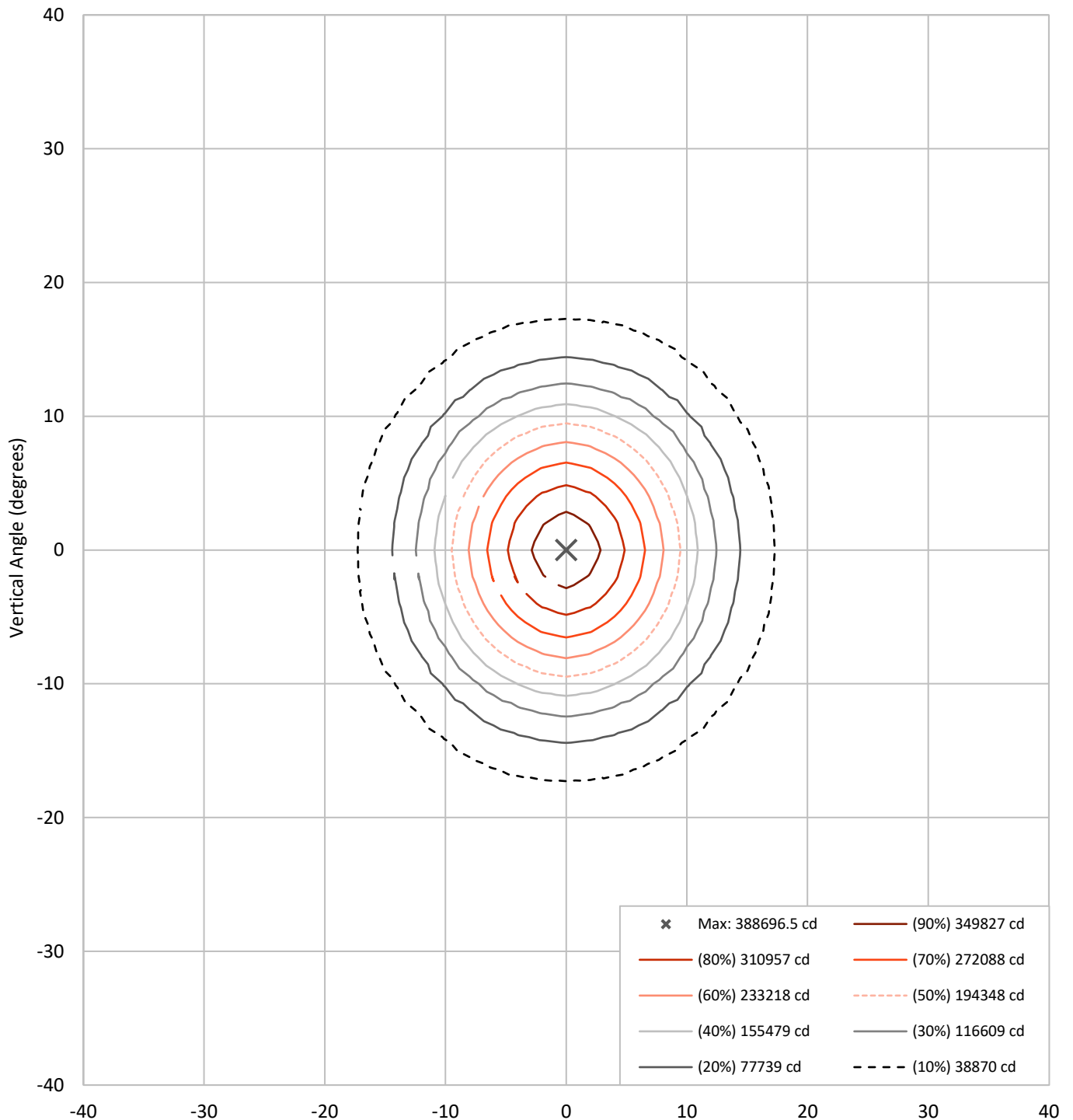
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	52655 lumens	Max Intensity:	388696.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	153.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	19°H x 19°V	Field Angle (10%):	34.3°H x 34.3°V
Beam Lumens:	22695 lumens	Field Lumens:	41809.1 lumens
Beam Efficiency:	43.1%	Field Efficiency:	79.4%

Input Watts (W): 343.2
Input Voltage (V): NR
Input Current (A_{in}): 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





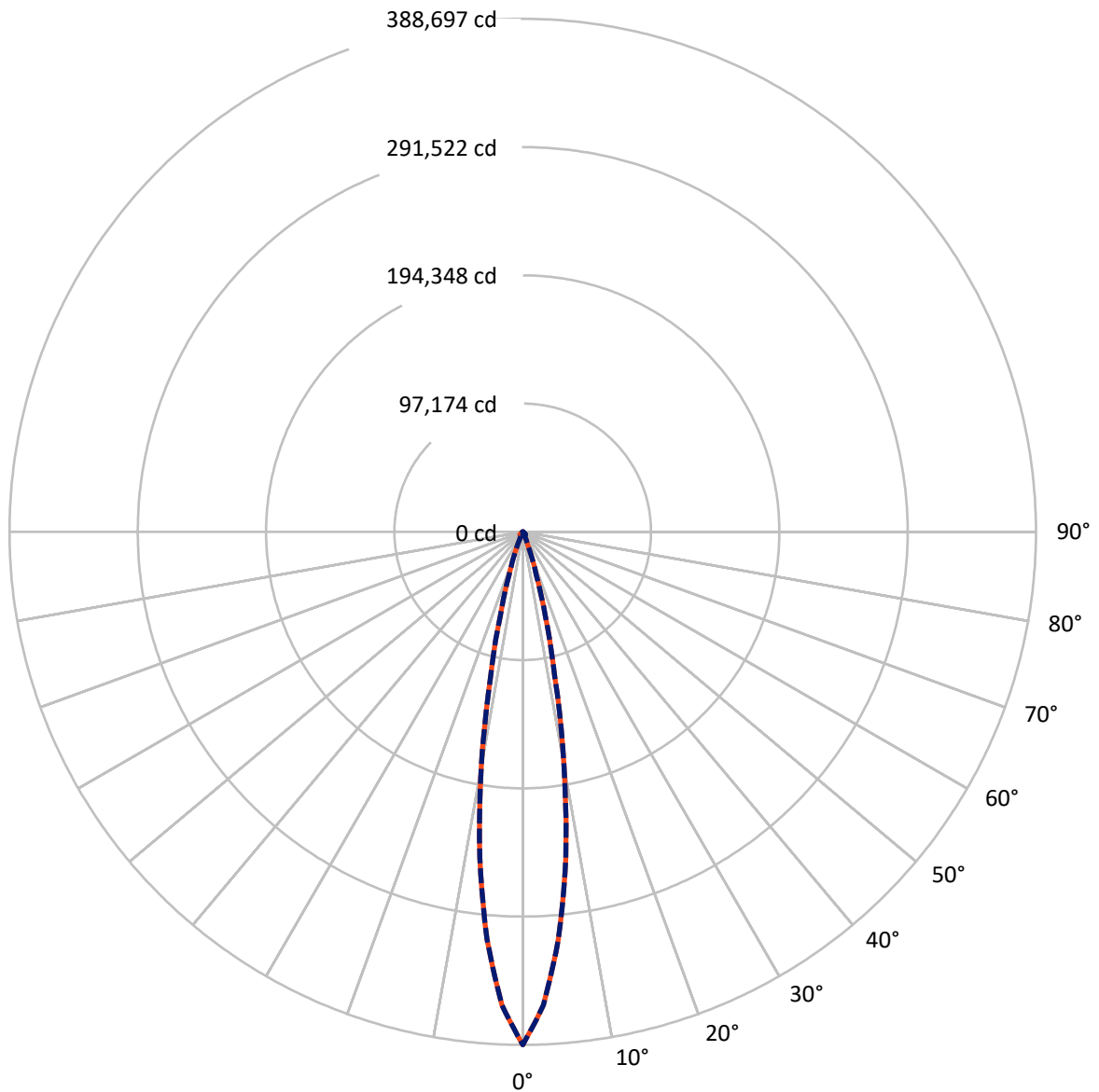
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Lumen Table

90	0.1		0.5		1.8		4.6		6.0		4.6		1.8		0.5		0.1
80	0.1		0.5		1.8		4.6		6.0		4.6		1.8		0.5		0.1
70	0.2	0.3	1.1	3.3	6.6	10.3	13.3	15.0	15.0	13.3	10.3	6.6	3.3	1.1	0.3	0.2	
60		0.8	3.9	9.5	16.4	22.2	26.0	28.0	28.0	26.0	22.2	16.4	9.5	3.9	0.8		
50	0.6	2.0	7.8	16.3	23.7	40.2	63.4	76.1	76.1	63.4	40.2	23.7	16.3	7.8	2.0	0.6	
40		3.5	11.6	20.5	48.6	83.1	91.8	92.0	92.0	91.8	83.1	48.6	20.5	11.6	3.5		
30	1.3	4.9	14.1	31.7	75.2	83.3	91.5	158.7	158.7	91.5	83.3	75.2	31.7	14.1	4.9	1.3	
20		6.0	15.5	47.1	77.8	86.0	502.8	1877.6	1877.6	502.8	86.0	77.8	47.1	15.5	6.0		
10	1.7	6.5	16.2	54.6	75.5	145.9	1832.1	7210.1	7210.1	1832.1	145.9	75.5	54.6	16.2	6.5	1.7	
0		6.5	16.2	54.6	75.5	145.9	1832.1	7210.1	7210.1	1832.1	145.9	75.5	54.6	16.2	6.5		
-10	1.3	6.0	15.5	47.1	77.8	86.0	502.8	1877.6	1877.6	502.8	86.0	77.8	47.1	15.5	6.0	1.3	
-20		4.9	14.1	31.7	75.2	83.3	91.5	158.7	158.7	91.5	83.3	75.2	31.7	14.1	4.9		
-30	0.6	3.5	11.6	20.5	48.6	83.1	91.8	92.0	92.0	91.8	83.1	48.6	20.5	11.6	3.5	0.6	
-40		2.0	7.8	16.3	23.7	40.2	63.4	76.1	76.1	63.4	40.2	23.7	16.3	7.8	2.0		
-50	0.2	0.8	3.9	9.5	16.4	22.2	26.0	28.0	28.0	26.0	22.2	16.4	9.5	3.9	0.8	0.2	
-60		0.3	1.1	3.3	6.6	10.3	13.3	15.0	15.0	13.3	10.3	6.6	3.3	1.1	0.3		
-70	0.1	0.5		1.8		4.6		6.0		4.6		1.8		0.5		0.1	
-80		0.5		1.8		4.6		6.0		4.6		1.8		0.5			
-90	0.1		0.5		1.8		4.6		6.0		4.6		1.8		0.5		0.1

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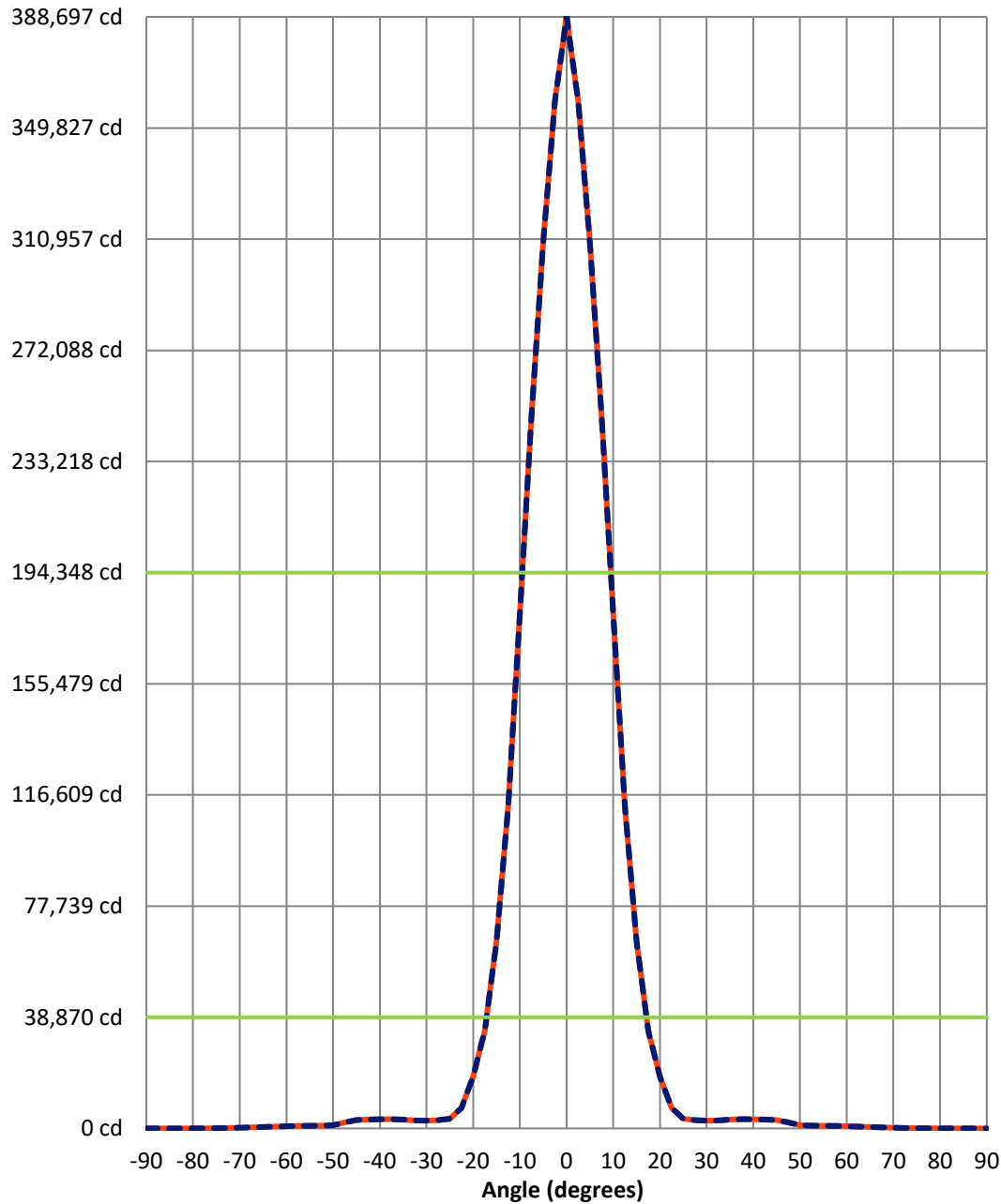
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 19°
 V Angle: 19°
 Lumens: 22695
 Efficiency: 43.1%

Field:
 H Angle: 34.3°
 V Angle: 34.3°
 Lumens: 41809.1
 Efficiency: 79.4%

Spill:
 Lumens: 10845.9
 Efficiency: 20.6%

— 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	0.2	0.3	0.5	0.6	0.8	1.0	1.1	1.3	1.4	1.6
85°	0.0	0.3	0.6	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1
82.5°	0.0	0.5	1.0	1.4	1.9	2.4	2.9	3.3	3.8	4.1	4.4
80°	0.0	0.6	1.3	1.9	2.6	3.2	3.8	4.3	4.7	5.2	5.6
77.5°	0.0	0.8	1.6	2.4	3.2	3.9	4.5	5.1	5.7	6.2	7.1
75°	0.0	1.0	1.9	2.9	3.8	4.5	5.2	5.9	6.7	8.0	9.4
72.5°	0.0	1.1	2.2	3.3	4.3	5.1	5.9	6.9	8.5	10.1	11.7
70°	0.0	1.3	2.5	3.8	4.7	5.7	6.7	8.5	10.3	12.2	14.2
67.5°	0.0	1.4	2.8	4.1	5.2	6.2	8.0	10.1	12.2	14.5	16.8
65°	0.0	1.6	3.1	4.4	5.6	7.1	9.4	11.7	14.2	16.8	19.9
62.5°	0.0	1.7	3.4	4.8	6.1	8.1	10.7	13.4	16.2	19.4	24.2
60°	0.0	1.8	3.7	5.1	6.5	9.2	12.0	15.1	18.2	23.2	28.5
57.5°	0.0	2.0	3.9	5.4	7.3	10.3	13.4	16.8	21.2	27.0	39.1
55°	0.0	2.1	4.1	5.7	8.1	11.3	14.8	18.4	24.5	32.5	52.5
52.5°	0.0	2.3	4.3	6.0	8.9	12.3	16.2	21.1	27.6	44.3	65.6
50°	0.0	2.4	4.5	6.3	9.7	13.4	17.5	23.7	32.8	55.7	90.3
47.5°	0.0	2.5	4.7	6.6	10.4	14.5	18.9	26.3	42.6	66.8	115.5
45°	0.0	2.6	4.9	7.2	11.1	15.5	21.0	28.8	52.1	88.4	139.9
42.5°	0.0	2.7	5.0	7.7	11.8	16.5	23.1	34.4	61.1	109.4	170.4
40°	0.0	2.8	5.2	8.2	12.5	17.4	25.0	42.0	72.8	129.5	200.8
37.5°	0.0	2.9	5.3	8.6	13.2	18.3	26.9	49.2	89.7	150.5	229.7
35°	0.0	3.0	5.5	9.0	13.9	19.6	28.6	56.0	105.8	175.1	258.2
32.5°	0.0	3.1	5.6	9.5	14.5	20.9	31.4	62.4	120.9	198.3	286.7
30°	0.0	3.2	5.7	9.8	15.1	22.2	36.5	69.9	135.0	220.0	313.4
27.5°	0.0	3.3	5.9	10.2	15.6	23.4	41.3	81.3	149.9	240.2	338.2
25°	0.0	3.4	6.0	10.5	16.1	24.5	45.7	91.9	166.4	260.0	361.3
22.5°	0.0	3.4	6.1	10.8	16.6	25.5	49.7	101.5	181.4	278.7	386.6
20°	0.0	3.5	6.2	11.1	17.0	26.4	53.3	110.1	194.9	295.5	409.4
17.5°	0.0	3.5	6.2	11.3	17.4	27.2	56.4	117.8	206.9	310.5	429.7
15°	0.0	3.6	6.3	11.5	17.7	27.9	59.2	124.5	217.4	323.6	447.4
12.5°	0.0	3.6	6.4	11.7	18.0	28.5	61.6	130.2	226.3	334.7	462.4
10°	0.0	3.6	6.4	11.8	18.2	28.9	63.5	134.9	233.6	343.9	474.8
7.5°	0.0	3.7	6.5	12.0	18.4	29.3	65.0	138.6	239.3	351.0	484.5
5°	0.0	3.7	6.5	12.0	18.5	29.6	66.1	141.2	243.4	356.1	491.4
2.5°	0.0	3.7	6.5	12.1	18.6	29.7	66.8	142.8	245.9	359.2	495.6
0°	0.0	3.7	6.5	12.1	18.6	29.7	66.8	142.8	245.9	359.2	495.6
-2.5°	0.0	3.7	6.5	12.1	18.6	29.7	66.8	142.8	245.9	359.2	495.6
-5°	0.0	3.7	6.5	12.0	18.5	29.6	66.1	141.2	243.4	356.1	491.4
-7.5°	0.0	3.7	6.5	12.0	18.4	29.3	65.0	138.6	239.3	351.0	484.5
-10°	0.0	3.6	6.4	11.8	18.2	28.9	63.5	134.9	233.6	343.9	474.8
-12.5°	0.0	3.6	6.4	11.7	18.0	28.5	61.6	130.2	226.3	334.7	462.4
-15°	0.0	3.6	6.3	11.5	17.7	27.9	59.2	124.5	217.4	323.6	447.4
-17.5°	0.0	3.5	6.2	11.3	17.4	27.2	56.4	117.8	206.9	310.5	429.7
-20°	0.0	3.5	6.2	11.1	17.0	26.4	53.3	110.1	194.9	295.5	409.4



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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	3.4	6.1	10.8	16.6	25.5	49.7	101.5	181.4	278.7	386.6
-25°	0.0	3.4	6.0	10.5	16.1	24.5	45.7	91.9	166.4	260.0	361.3
-27.5°	0.0	3.3	5.9	10.2	15.6	23.4	41.3	81.3	149.9	240.2	338.2
-30°	0.0	3.2	5.7	9.8	15.1	22.2	36.5	69.9	135.0	220.0	313.4
-32.5°	0.0	3.1	5.6	9.5	14.5	20.9	31.4	62.4	120.9	198.3	286.7
-35°	0.0	3.0	5.5	9.0	13.9	19.6	28.6	56.0	105.8	175.1	258.2
-37.5°	0.0	2.9	5.3	8.6	13.2	18.3	26.9	49.2	89.7	150.5	229.7
-40°	0.0	2.8	5.2	8.2	12.5	17.4	25.0	42.0	72.8	129.5	200.8
-42.5°	0.0	2.7	5.0	7.7	11.8	16.5	23.1	34.4	61.1	109.4	170.4
-45°	0.0	2.6	4.9	7.2	11.1	15.5	21.0	28.8	52.1	88.4	139.9
-47.5°	0.0	2.5	4.7	6.6	10.4	14.5	18.9	26.3	42.6	66.8	115.5
-50°	0.0	2.4	4.5	6.3	9.7	13.4	17.5	23.7	32.8	55.7	90.3
-52.5°	0.0	2.3	4.3	6.0	8.9	12.3	16.2	21.1	27.6	44.3	65.6
-55°	0.0	2.1	4.1	5.7	8.1	11.3	14.8	18.4	24.5	32.5	52.5
-57.5°	0.0	2.0	3.9	5.4	7.3	10.3	13.4	16.8	21.2	27.0	39.1
-60°	0.0	1.8	3.7	5.1	6.5	9.2	12.0	15.1	18.2	23.2	28.5
-62.5°	0.0	1.7	3.4	4.8	6.1	8.1	10.7	13.4	16.2	19.4	24.2
-65°	0.0	1.6	3.1	4.4	5.6	7.1	9.4	11.7	14.2	16.8	19.9
-67.5°	0.0	1.4	2.8	4.1	5.2	6.2	8.0	10.1	12.2	14.5	16.8
-70°	0.0	1.3	2.5	3.8	4.7	5.7	6.7	8.5	10.3	12.2	14.2
-72.5°	0.0	1.1	2.2	3.3	4.3	5.1	5.9	6.9	8.5	10.1	11.7
-75°	0.0	1.0	1.9	2.9	3.8	4.5	5.2	5.9	6.7	8.0	9.4
-77.5°	0.0	0.8	1.6	2.4	3.2	3.9	4.5	5.1	5.7	6.2	7.1
-80°	0.0	0.6	1.3	1.9	2.6	3.2	3.8	4.3	4.7	5.2	5.6
-82.5°	0.0	0.5	1.0	1.4	1.9	2.4	2.9	3.3	3.8	4.1	4.4
-85°	0.0	0.3	0.6	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1
-87.5°	0.0	0.2	0.3	0.5	0.6	0.8	1.0	1.1	1.3	1.4	1.6
-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°	1.7	1.8	2.0	2.1	2.3	2.4	2.5	2.6	2.7	2.8	2.9
85°	3.4	3.7	3.9	4.1	4.3	4.5	4.7	4.9	5.0	5.2	5.3
82.5°	4.8	5.1	5.4	5.7	6.0	6.3	6.6	7.2	7.7	8.2	8.6
80°	6.1	6.5	7.3	8.1	8.9	9.7	10.4	11.1	11.8	12.5	13.2
77.5°	8.1	9.2	10.3	11.3	12.3	13.4	14.5	15.5	16.5	17.4	18.3
75°	10.7	12.0	13.4	14.8	16.2	17.5	18.9	21.0	23.1	25.0	26.9
72.5°	13.4	15.1	16.8	18.4	21.1	23.7	26.3	28.8	34.4	42.0	49.2
70°	16.2	18.2	21.2	24.5	27.6	32.8	42.6	52.1	61.1	72.8	89.7
67.5°	19.4	23.2	27.0	32.5	44.3	55.7	66.8	88.4	109.4	129.5	150.5
65°	24.2	28.5	39.1	52.5	65.6	90.3	115.5	139.9	170.4	200.8	229.7
62.5°	29.0	42.4	57.6	77.9	107.5	136.2	171.3	207.7	242.7	279.2	314.3
60°	42.4	59.2	84.8	117.8	152.4	194.9	236.1	278.7	320.8	361.3	407.8
57.5°	57.6	84.8	121.3	161.9	209.1	256.0	305.0	352.4	406.0	459.0	510.1
55°	77.9	117.8	161.9	213.9	266.5	320.9	376.6	438.3	498.0	557.3	614.1
52.5°	107.5	152.4	209.1	266.5	326.2	389.5	457.9	525.1	591.4	654.1	710.9
50°	136.2	194.9	256.0	320.9	389.5	464.4	538.8	612.1	679.9	743.5	800.1
47.5°	171.3	236.1	305.0	376.6	457.9	538.8	619.1	692.9	763.2	823.2	880.2
45°	207.7	278.7	352.4	438.3	525.1	612.1	692.9	769.8	834.9	888.7	908.5
42.5°	242.7	320.8	406.0	498.0	591.4	679.9	763.2	834.9	890.7	912.4	937.5
40°	279.2	361.3	459.0	557.3	654.1	743.5	823.2	888.7	912.4	940.3	970.3
37.5°	314.3	407.8	510.1	614.1	710.9	800.1	880.2	908.5	937.5	970.3	1060.4
35°	347.7	452.0	559.9	666.0	765.2	851.0	900.7	929.5	964.8	1052.1	1327.3
32.5°	383.1	493.8	607.2	713.6	810.7	889.2	917.6	953.9	1027.6	1215.3	1901.5
30°	418.8	534.3	650.6	758.5	853.0	904.0	937.8	987.2	1100.0	1730.1	2396.0
27.5°	452.0	572.2	689.1	796.4	887.0	917.9	958.1	1050.9	1448.5	2198.8	2836.4
25°	482.7	607.2	724.7	830.3	899.0	934.2	986.8	1110.3	1874.1	2585.4	2994.8
22.5°	511.3	639.1	757.3	861.4	909.9	950.3	1037.7	1428.0	2242.0	2930.9	3075.3
20°	537.5	666.0	784.7	886.0	919.9	964.9	1084.0	1761.6	2547.0	2999.5	3129.8
17.5°	560.8	690.0	807.6	894.2	931.4	990.0	1163.8	2061.2	2821.4	3061.4	3170.1
15°	581.2	710.9	827.7	901.3	942.0	1023.6	1406.9	2290.3	2955.8	3109.9	3205.1
12.5°	598.6	728.8	844.9	907.4	951.0	1052.3	1615.3	2482.0	2999.3	3138.4	3214.7
10°	612.9	743.5	859.0	912.5	958.4	1076.1	1787.5	2640.8	3035.3	3162.0	3222.7
7.5°	624.1	755.0	870.0	916.4	964.3	1094.7	1922.7	2765.5	3063.6	3180.6	3229.1
5°	632.1	763.2	877.9	919.2	968.4	1108.1	2019.9	2855.2	3084.1	3194.0	3233.6
2.5°	636.9	768.1	882.7	920.9	971.0	1116.1	2078.4	2909.3	3096.4	3202.1	3236.4
0°	638.5	769.8	884.3	921.5	971.8	1118.8	2098.0	2927.4	3100.5	3204.8	3237.3
-2.5°	636.9	768.1	882.7	920.9	971.0	1116.1	2078.4	2909.3	3096.4	3202.1	3236.4
-5°	632.1	763.2	877.9	919.2	968.4	1108.1	2019.9	2855.2	3084.1	3194.0	3233.6
-7.5°	624.1	755.0	870.0	916.4	964.3	1094.7	1922.7	2765.5	3063.6	3180.6	3229.1
-10°	612.9	743.5	859.0	912.5	958.4	1076.1	1787.5	2640.8	3035.3	3162.0	3222.7
-12.5°	598.6	728.8	844.9	907.4	951.0	1052.3	1615.3	2482.0	2999.3	3138.4	3214.7
-15°	581.2	710.9	827.7	901.3	942.0	1023.6	1406.9	2290.3	2955.8	3109.9	3205.1
-17.5°	560.8	690.0	807.6	894.2	931.4	990.0	1163.8	2061.2	2821.4	3061.4	3170.1
-20°	537.5	666.0	784.7	886.0	919.9	964.9	1084.0	1761.6	2547.0	2999.5	3129.8



REPORT NUMBER: P731204 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	511.3	639.1	757.3	861.4	909.9	950.3	1037.7	1428.0	2242.0	2930.9	3075.3
-25°	482.7	607.2	724.7	830.3	899.0	934.2	986.8	1110.3	1874.1	2585.4	2994.8
-27.5°	452.0	572.2	689.1	796.4	887.0	917.9	958.1	1050.9	1448.5	2198.8	2836.4
-30°	418.8	534.3	650.6	758.5	853.0	904.0	937.8	987.2	1100.0	1730.1	2396.0
-32.5°	383.1	493.8	607.2	713.6	810.7	889.2	917.6	953.9	1027.6	1215.3	1901.5
-35°	347.7	452.0	559.9	666.0	765.2	851.0	900.7	929.5	964.8	1052.1	1327.3
-37.5°	314.3	407.8	510.1	614.1	710.9	800.1	880.2	908.5	937.5	970.3	1060.4
-40°	279.2	361.3	459.0	557.3	654.1	743.5	823.2	888.7	912.4	940.3	970.3
-42.5°	242.7	320.8	406.0	498.0	591.4	679.9	763.2	834.9	890.7	912.4	937.5
-45°	207.7	278.7	352.4	438.3	525.1	612.1	692.9	769.8	834.9	888.7	908.5
-47.5°	171.3	236.1	305.0	376.6	457.9	538.8	619.1	692.9	763.2	823.2	880.2
-50°	136.2	194.9	256.0	320.9	389.5	464.4	538.8	612.1	679.9	743.5	800.1
-52.5°	107.5	152.4	209.1	266.5	326.2	389.5	457.9	525.1	591.4	654.1	710.9
-55°	77.9	117.8	161.9	213.9	266.5	320.9	376.6	438.3	498.0	557.3	614.1
-57.5°	57.6	84.8	121.3	161.9	209.1	256.0	305.0	352.4	406.0	459.0	510.1
-60°	42.4	59.2	84.8	117.8	152.4	194.9	236.1	278.7	320.8	361.3	407.8
-62.5°	29.0	42.4	57.6	77.9	107.5	136.2	171.3	207.7	242.7	279.2	314.3
-65°	24.2	28.5	39.1	52.5	65.6	90.3	115.5	139.9	170.4	200.8	229.7
-67.5°	19.4	23.2	27.0	32.5	44.3	55.7	66.8	88.4	109.4	129.5	150.5
-70°	16.2	18.2	21.2	24.5	27.6	32.8	42.6	52.1	61.1	72.8	89.7
-72.5°	13.4	15.1	16.8	18.4	21.1	23.7	26.3	28.8	34.4	42.0	49.2
-75°	10.7	12.0	13.4	14.8	16.2	17.5	18.9	21.0	23.1	25.0	26.9
-77.5°	8.1	9.2	10.3	11.3	12.3	13.4	14.5	15.5	16.5	17.4	18.3
-80°	6.1	6.5	7.3	8.1	8.9	9.7	10.4	11.1	11.8	12.5	13.2
-82.5°	4.8	5.1	5.4	5.7	6.0	6.3	6.6	7.2	7.7	8.2	8.6
-85°	3.4	3.7	3.9	4.1	4.3	4.5	4.7	4.9	5.0	5.2	5.3
-87.5°	1.7	1.8	2.0	2.1	2.3	2.4	2.5	2.6	2.7	2.8	2.9
-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: P731204 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-1S-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°	3.0	3.1	3.2	3.3	3.4	3.4	3.5	3.5	3.6	3.6	3.6
85°	5.5	5.6	5.7	5.9	6.0	6.1	6.2	6.2	6.3	6.4	6.4
82.5°	9.0	9.5	9.8	10.2	10.5	10.8	11.1	11.3	11.5	11.7	11.8
80°	13.9	14.5	15.1	15.6	16.1	16.6	17.0	17.4	17.7	18.0	18.2
77.5°	19.6	20.9	22.2	23.4	24.5	25.5	26.4	27.2	27.9	28.5	28.9
75°	28.6	31.4	36.5	41.3	45.7	49.7	53.3	56.4	59.2	61.6	63.5
72.5°	56.0	62.4	69.9	81.3	91.9	101.5	110.1	117.8	124.5	130.2	134.9
70°	105.8	120.9	135.0	149.9	166.4	181.4	194.9	206.9	217.4	226.3	233.6
67.5°	175.1	198.3	220.0	240.2	260.0	278.7	295.5	310.5	323.6	334.7	343.9
65°	258.2	286.7	313.4	338.2	361.3	386.6	409.4	429.7	447.4	462.4	474.8
62.5°	347.7	383.1	418.8	452.0	482.7	511.3	537.5	560.8	581.2	598.6	612.9
60°	452.0	493.8	534.3	572.2	607.2	639.1	666.0	690.0	710.9	728.8	743.5
57.5°	559.9	607.2	650.6	689.1	724.7	757.3	784.7	807.6	827.7	844.9	859.0
55°	666.0	713.6	758.5	796.4	830.3	861.4	886.0	894.2	901.3	907.4	912.5
52.5°	765.2	810.7	853.0	887.0	899.0	909.9	919.9	931.4	942.0	951.0	958.4
50°	851.0	889.2	904.0	917.9	934.2	950.3	964.9	990.0	1023.6	1052.3	1076.1
47.5°	900.7	917.6	937.8	958.1	986.8	1037.7	1084.0	1163.8	1406.9	1615.3	1787.5
45°	929.5	953.9	987.2	1050.9	1110.3	1428.0	1761.6	2061.2	2290.3	2482.0	2640.8
42.5°	964.8	1027.6	1100.0	1448.5	1874.1	2242.0	2547.0	2821.4	2955.8	2999.3	3035.3
40°	1052.1	1215.3	1730.1	2198.8	2585.4	2930.9	2999.5	3061.4	3109.9	3138.4	3162.0
37.5°	1327.3	1901.5	2396.0	2836.4	2994.8	3075.3	3129.8	3170.1	3205.1	3214.7	3222.7
35°	1959.0	2495.7	2940.3	3038.3	3118.7	3170.7	3209.1	3222.7	3234.7	3200.1	3158.9
32.5°	2495.7	2951.0	3060.3	3139.1	3198.6	3220.2	3236.3	3172.9	3111.2	3033.2	2946.6
30°	2940.3	3060.3	3146.0	3207.3	3227.0	3198.0	3116.3	3002.7	2873.7	2781.0	2756.9
27.5°	3038.3	3139.1	3207.3	3229.3	3175.6	3079.7	2910.7	2779.5	2743.8	2712.5	2776.7
25°	3118.7	3198.6	3227.0	3175.6	3057.1	2863.8	2760.9	2718.1	2793.2	2876.8	3033.1
22.5°	3170.7	3220.2	3198.0	3079.7	2863.8	2754.6	2730.5	2843.5	3029.6	3274.0	4122.8
20°	3209.1	3236.3	3116.3	2910.7	2760.9	2730.5	2860.5	3125.3	3670.3	5744.4	8198.7
17.5°	3222.7	3172.9	3002.7	2779.5	2718.1	2843.5	3125.3	4066.7	6585.1	12044.7	17804.4
15°	3234.7	3111.2	2873.7	2743.8	2793.2	3029.6	3670.3	6585.1	13363.9	21797.1	31266.2
12.5°	3200.1	3033.2	2781.0	2712.5	2876.8	3274.0	5744.4	12044.7	21797.1	33566.1	53500.9
10°	3158.9	2946.6	2756.9	2776.7	3033.1	4122.8	8198.7	17804.4	31266.2	53500.9	80565.9
7.5°	3126.3	2877.9	2737.7	2828.3	3185.4	5430.3	12419.7	24633.7	43841.0	73119.4	113126.9
5°	3102.8	2828.1	2723.7	2866.0	3297.0	6394.2	15555.5	29881.4	55556.3	92921.9	146286.2
2.5°	3088.5	2797.9	2715.2	2889.0	3365.2	6985.5	17490.6	33146.1	62932.5	107199.3	171093.6
0°	3083.7	2787.8	2712.4	2896.7	3388.1	7184.9	18145.1	34255.4	65455.9	112616.8	179954.8
-2.5°	3088.5	2797.9	2715.2	2889.0	3365.2	6985.5	17490.6	33146.1	62932.5	107199.3	171093.6
-5°	3102.8	2828.1	2723.7	2866.0	3297.0	6394.2	15555.5	29881.4	55556.3	92921.9	146286.2
-7.5°	3126.3	2877.9	2737.7	2828.3	3185.4	5430.3	12419.7	24633.7	43841.0	73119.4	113126.9
-10°	3158.9	2946.6	2756.9	2776.7	3033.1	4122.8	8198.7	17804.4	31266.2	53500.9	80565.9
-12.5°	3200.1	3033.2	2781.0	2712.5	2876.8	3274.0	5744.4	12044.7	21797.1	33566.1	53500.9
-15°	3234.7	3111.2	2873.7	2743.8	2793.2	3029.6	3670.3	6585.1	13363.9	21797.1	31266.2
-17.5°	3222.7	3172.9	3002.7	2779.5	2718.1	2843.5	3125.3	4066.7	6585.1	12044.7	17804.4
-20°	3209.1	3236.3	3116.3	2910.7	2760.9	2730.5	2860.5	3125.3	3670.3	5744.4	8198.7



REPORT NUMBER: P731204 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3170.7	3220.2	3198.0	3079.7	2863.8	2754.6	2730.5	2843.5	3029.6	3274.0	4122.8
-25°	3118.7	3198.6	3227.0	3175.6	3057.1	2863.8	2760.9	2718.1	2793.2	2876.8	3033.1
-27.5°	3038.3	3139.1	3207.3	3229.3	3175.6	3079.7	2910.7	2779.5	2743.8	2712.5	2776.7
-30°	2940.3	3060.3	3146.0	3207.3	3227.0	3198.0	3116.3	3002.7	2873.7	2781.0	2756.9
-32.5°	2495.7	2951.0	3060.3	3139.1	3198.6	3220.2	3236.3	3172.9	3111.2	3033.2	2946.6
-35°	1959.0	2495.7	2940.3	3038.3	3118.7	3170.7	3209.1	3222.7	3234.7	3200.1	3158.9
-37.5°	1327.3	1901.5	2396.0	2836.4	2994.8	3075.3	3129.8	3170.1	3205.1	3214.7	3222.7
-40°	1052.1	1215.3	1730.1	2198.8	2585.4	2930.9	2999.5	3061.4	3109.9	3138.4	3162.0
-42.5°	964.8	1027.6	1100.0	1448.5	1874.1	2242.0	2547.0	2821.4	2955.8	2999.3	3035.3
-45°	929.5	953.9	987.2	1050.9	1110.3	1428.0	1761.6	2061.2	2290.3	2482.0	2640.8
-47.5°	900.7	917.6	937.8	958.1	986.8	1037.7	1084.0	1163.8	1406.9	1615.3	1787.5
-50°	851.0	889.2	904.0	917.9	934.2	950.3	964.9	990.0	1023.6	1052.3	1076.1
-52.5°	765.2	810.7	853.0	887.0	899.0	909.9	919.9	931.4	942.0	951.0	958.4
-55°	666.0	713.6	758.5	796.4	830.3	861.4	886.0	894.2	901.3	907.4	912.5
-57.5°	559.9	607.2	650.6	689.1	724.7	757.3	784.7	807.6	827.7	844.9	859.0
-60°	452.0	493.8	534.3	572.2	607.2	639.1	666.0	690.0	710.9	728.8	743.5
-62.5°	347.7	383.1	418.8	452.0	482.7	511.3	537.5	560.8	581.2	598.6	612.9
-65°	258.2	286.7	313.4	338.2	361.3	386.6	409.4	429.7	447.4	462.4	474.8
-67.5°	175.1	198.3	220.0	240.2	260.0	278.7	295.5	310.5	323.6	334.7	343.9
-70°	105.8	120.9	135.0	149.9	166.4	181.4	194.9	206.9	217.4	226.3	233.6
-72.5°	56.0	62.4	69.9	81.3	91.9	101.5	110.1	117.8	124.5	130.2	134.9
-75°	28.6	31.4	36.5	41.3	45.7	49.7	53.3	56.4	59.2	61.6	63.5
-77.5°	19.6	20.9	22.2	23.4	24.5	25.5	26.4	27.2	27.9	28.5	28.9
-80°	13.9	14.5	15.1	15.6	16.1	16.6	17.0	17.4	17.7	18.0	18.2
-82.5°	9.0	9.5	9.8	10.2	10.5	10.8	11.1	11.3	11.5	11.7	11.8
-85°	5.5	5.6	5.7	5.9	6.0	6.1	6.2	6.2	6.3	6.4	6.4
-87.5°	3.0	3.1	3.2	3.3	3.4	3.4	3.5	3.5	3.6	3.6	3.6
-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: P731204 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-1S-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°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.5
85°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.4	6.4	6.3	6.2
82.5°	12.0	12.0	12.1	12.1	12.1	12.0	12.0	11.8	11.7	11.5	11.3
80°	18.4	18.5	18.6	18.6	18.6	18.5	18.4	18.2	18.0	17.7	17.4
77.5°	29.3	29.6	29.7	29.8	29.7	29.6	29.3	28.9	28.5	27.9	27.2
75°	65.0	66.1	66.8	67.0	66.8	66.1	65.0	63.5	61.6	59.2	56.4
72.5°	138.6	141.2	142.8	143.3	142.8	141.2	138.6	134.9	130.2	124.5	117.8
70°	239.3	243.4	245.9	246.7	245.9	243.4	239.3	233.6	226.3	217.4	206.9
67.5°	351.0	356.1	359.2	360.2	359.2	356.1	351.0	343.9	334.7	323.6	310.5
65°	484.5	491.4	495.6	497.0	495.6	491.4	484.5	474.8	462.4	447.4	429.7
62.5°	624.1	632.1	636.9	638.5	636.9	632.1	624.1	612.9	598.6	581.2	560.8
60°	755.0	763.2	768.1	769.8	768.1	763.2	755.0	743.5	728.8	710.9	690.0
57.5°	870.0	877.9	882.7	884.3	882.7	877.9	870.0	859.0	844.9	827.7	807.6
55°	916.4	919.2	920.9	921.5	920.9	919.2	916.4	912.5	907.4	901.3	894.2
52.5°	964.3	968.4	971.0	971.8	971.0	968.4	964.3	958.4	951.0	942.0	931.4
50°	1094.7	1108.1	1116.1	1118.8	1116.1	1108.1	1094.7	1076.1	1052.3	1023.6	990.0
47.5°	1922.7	2019.9	2078.4	2098.0	2078.4	2019.9	1922.7	1787.5	1615.3	1406.9	1163.8
45°	2765.5	2855.2	2909.3	2927.4	2909.3	2855.2	2765.5	2640.8	2482.0	2290.3	2061.2
42.5°	3063.6	3084.1	3096.4	3100.5	3096.4	3084.1	3063.6	3035.3	2999.3	2955.8	2821.4
40°	3180.6	3194.0	3202.1	3204.8	3202.1	3194.0	3180.6	3162.0	3138.4	3109.9	3061.4
37.5°	3229.1	3233.6	3236.4	3237.3	3236.4	3233.6	3229.1	3222.7	3214.7	3205.1	3170.1
35°	3126.3	3102.8	3088.5	3083.7	3088.5	3102.8	3126.3	3158.9	3200.1	3234.7	3222.7
32.5°	2877.9	2828.1	2797.9	2787.8	2797.9	2828.1	2877.9	2946.6	3033.2	3111.2	3172.9
30°	2737.7	2723.7	2715.2	2712.4	2715.2	2723.7	2737.7	2756.9	2781.0	2873.7	3002.7
27.5°	2828.3	2866.0	2889.0	2896.7	2889.0	2866.0	2828.3	2776.7	2712.5	2743.8	2779.5
25°	3185.4	3297.0	3365.2	3388.1	3365.2	3297.0	3185.4	3033.1	2876.8	2793.2	2718.1
22.5°	5430.3	6394.2	6985.5	7184.9	6985.5	6394.2	5430.3	4122.8	3274.0	3029.6	2843.5
20°	12419.7	15555.5	17490.6	18145.1	17490.6	15555.5	12419.7	8198.7	5744.4	3670.3	3125.3
17.5°	24633.7	29881.4	33146.1	34255.4	33146.1	29881.4	24633.7	17804.4	12044.7	6585.1	4066.7
15°	43841.0	55556.3	62932.5	65455.9	62932.5	55556.3	43841.0	31266.2	21797.1	13363.9	6585.1
12.5°	73119.4	92921.9	107199.3	112616.8	107199.3	92921.9	73119.4	53500.9	33566.1	21797.1	12044.7
10°	113126.9	146286.2	171093.6	179954.8	171093.6	146286.2	113126.9	80565.9	53500.9	31266.2	17804.4
7.5°	162754.3	207321.5	238637.1	249299.1	238637.1	207321.5	162754.3	113126.9	73119.4	43841.0	24633.7
5°	207321.5	260753.8	296492.6	309713.3	296492.6	260753.8	207321.5	146286.2	92921.9	55556.3	29881.4
2.5°	238637.1	296492.6	338899.4	359007.2	338899.4	296492.6	238637.1	171093.6	107199.3	62932.5	33146.1
0°	249299.1	309713.3	359007.2	388696.5	359007.2	309713.3	249299.1	179954.8	112616.8	65455.9	34255.4
-2.5°	238637.1	296492.6	338899.4	359007.2	338899.4	296492.6	238637.1	171093.6	107199.3	62932.5	33146.1
-5°	207321.5	260753.8	296492.6	309713.3	296492.6	260753.8	207321.5	146286.2	92921.9	55556.3	29881.4
-7.5°	162754.3	207321.5	238637.1	249299.1	238637.1	207321.5	162754.3	113126.9	73119.4	43841.0	24633.7
-10°	113126.9	146286.2	171093.6	179954.8	171093.6	146286.2	113126.9	80565.9	53500.9	31266.2	17804.4
-12.5°	73119.4	92921.9	107199.3	112616.8	107199.3	92921.9	73119.4	53500.9	33566.1	21797.1	12044.7
-15°	43841.0	55556.3	62932.5	65455.9	62932.5	55556.3	43841.0	31266.2	21797.1	13363.9	6585.1
-17.5°	24633.7	29881.4	33146.1	34255.4	33146.1	29881.4	24633.7	17804.4	12044.7	6585.1	4066.7
-20°	12419.7	15555.5	17490.6	18145.1	17490.6	15555.5	12419.7	8198.7	5744.4	3670.3	3125.3



REPORT NUMBER: P731204 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	5430.3	6394.2	6985.5	7184.9	6985.5	6394.2	5430.3	4122.8	3274.0	3029.6	2843.5
-25°	3185.4	3297.0	3365.2	3388.1	3365.2	3297.0	3185.4	3033.1	2876.8	2793.2	2718.1
-27.5°	2828.3	2866.0	2889.0	2896.7	2889.0	2866.0	2828.3	2776.7	2712.5	2743.8	2779.5
-30°	2737.7	2723.7	2715.2	2712.4	2715.2	2723.7	2737.7	2756.9	2781.0	2873.7	3002.7
-32.5°	2877.9	2828.1	2797.9	2787.8	2797.9	2828.1	2877.9	2946.6	3033.2	3111.2	3172.9
-35°	3126.3	3102.8	3088.5	3083.7	3088.5	3102.8	3126.3	3158.9	3200.1	3234.7	3222.7
-37.5°	3229.1	3233.6	3236.4	3237.3	3236.4	3233.6	3229.1	3222.7	3214.7	3205.1	3170.1
-40°	3180.6	3194.0	3202.1	3204.8	3202.1	3194.0	3180.6	3162.0	3138.4	3109.9	3061.4
-42.5°	3063.6	3084.1	3096.4	3100.5	3096.4	3084.1	3063.6	3035.3	2999.3	2955.8	2821.4
-45°	2765.5	2855.2	2909.3	2927.4	2909.3	2855.2	2765.5	2640.8	2482.0	2290.3	2061.2
-47.5°	1922.7	2019.9	2078.4	2098.0	2078.4	2019.9	1922.7	1787.5	1615.3	1406.9	1163.8
-50°	1094.7	1108.1	1116.1	1118.8	1116.1	1108.1	1094.7	1076.1	1052.3	1023.6	990.0
-52.5°	964.3	968.4	971.0	971.8	971.0	968.4	964.3	958.4	951.0	942.0	931.4
-55°	916.4	919.2	920.9	921.5	920.9	919.2	916.4	912.5	907.4	901.3	894.2
-57.5°	870.0	877.9	882.7	884.3	882.7	877.9	870.0	859.0	844.9	827.7	807.6
-60°	755.0	763.2	768.1	769.8	768.1	763.2	755.0	743.5	728.8	710.9	690.0
-62.5°	624.1	632.1	636.9	638.5	636.9	632.1	624.1	612.9	598.6	581.2	560.8
-65°	484.5	491.4	495.6	497.0	495.6	491.4	484.5	474.8	462.4	447.4	429.7
-67.5°	351.0	356.1	359.2	360.2	359.2	356.1	351.0	343.9	334.7	323.6	310.5
-70°	239.3	243.4	245.9	246.7	245.9	243.4	239.3	233.6	226.3	217.4	206.9
-72.5°	138.6	141.2	142.8	143.3	142.8	141.2	138.6	134.9	130.2	124.5	117.8
-75°	65.0	66.1	66.8	67.0	66.8	66.1	65.0	63.5	61.6	59.2	56.4
-77.5°	29.3	29.6	29.7	29.8	29.7	29.6	29.3	28.9	28.5	27.9	27.2
-80°	18.4	18.5	18.6	18.6	18.6	18.5	18.4	18.2	18.0	17.7	17.4
-82.5°	12.0	12.0	12.1	12.1	12.1	12.0	12.0	11.8	11.7	11.5	11.3
-85°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.4	6.4	6.3	6.2
-87.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.5
-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: P731204 (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°
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°	3.5	3.4	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6
85°	6.2	6.1	6.0	5.9	5.7	5.6	5.5	5.3	5.2	5.0	4.9
82.5°	11.1	10.8	10.5	10.2	9.8	9.5	9.0	8.6	8.2	7.7	7.2
80°	17.0	16.6	16.1	15.6	15.1	14.5	13.9	13.2	12.5	11.8	11.1
77.5°	26.4	25.5	24.5	23.4	22.2	20.9	19.6	18.3	17.4	16.5	15.5
75°	53.3	49.7	45.7	41.3	36.5	31.4	28.6	26.9	25.0	23.1	21.0
72.5°	110.1	101.5	91.9	81.3	69.9	62.4	56.0	49.2	42.0	34.4	28.8
70°	194.9	181.4	166.4	149.9	135.0	120.9	105.8	89.7	72.8	61.1	52.1
67.5°	295.5	278.7	260.0	240.2	220.0	198.3	175.1	150.5	129.5	109.4	88.4
65°	409.4	386.6	361.3	338.2	313.4	286.7	258.2	229.7	200.8	170.4	139.9
62.5°	537.5	511.3	482.7	452.0	418.8	383.1	347.7	314.3	279.2	242.7	207.7
60°	666.0	639.1	607.2	572.2	534.3	493.8	452.0	407.8	361.3	320.8	278.7
57.5°	784.7	757.3	724.7	689.1	650.6	607.2	559.9	510.1	459.0	406.0	352.4
55°	886.0	861.4	830.3	796.4	758.5	713.6	666.0	614.1	557.3	498.0	438.3
52.5°	919.9	909.9	899.0	887.0	853.0	810.7	765.2	710.9	654.1	591.4	525.1
50°	964.9	950.3	934.2	917.9	904.0	889.2	851.0	800.1	743.5	679.9	612.1
47.5°	1084.0	1037.7	986.8	958.1	937.8	917.6	900.7	880.2	823.2	763.2	692.9
45°	1761.6	1428.0	1110.3	1050.9	987.2	953.9	929.5	908.5	888.7	834.9	769.8
42.5°	2547.0	2242.0	1874.1	1448.5	1100.0	1027.6	964.8	937.5	912.4	890.7	834.9
40°	2999.5	2930.9	2585.4	2198.8	1730.1	1215.3	1052.1	970.3	940.3	912.4	888.7
37.5°	3129.8	3075.3	2994.8	2836.4	2396.0	1901.5	1327.3	1060.4	970.3	937.5	908.5
35°	3209.1	3170.7	3118.7	3038.3	2940.3	2495.7	1959.0	1327.3	1052.1	964.8	929.5
32.5°	3236.3	3220.2	3198.6	3139.1	3060.3	2951.0	2495.7	1901.5	1215.3	1027.6	953.9
30°	3116.3	3198.0	3227.0	3207.3	3146.0	3060.3	2940.3	2396.0	1730.1	1100.0	987.2
27.5°	2910.7	3079.7	3175.6	3229.3	3207.3	3139.1	3038.3	2836.4	2198.8	1448.5	1050.9
25°	2760.9	2863.8	3057.1	3175.6	3227.0	3198.6	3118.7	2994.8	2585.4	1874.1	1110.3
22.5°	2730.5	2754.6	2863.8	3079.7	3198.0	3220.2	3170.7	3075.3	2930.9	2242.0	1428.0
20°	2860.5	2730.5	2760.9	2910.7	3116.3	3236.3	3209.1	3129.8	2999.5	2547.0	1761.6
17.5°	3125.3	2843.5	2718.1	2779.5	3002.7	3172.9	3222.7	3170.1	3061.4	2821.4	2061.2
15°	3670.3	3029.6	2793.2	2743.8	2873.7	3111.2	3234.7	3205.1	3109.9	2955.8	2290.3
12.5°	5744.4	3274.0	2876.8	2712.5	2781.0	3033.2	3200.1	3214.7	3138.4	2999.3	2482.0
10°	8198.7	4122.8	3033.1	2776.7	2756.9	2946.6	3158.9	3222.7	3162.0	3035.3	2640.8
7.5°	12419.7	5430.3	3185.4	2828.3	2737.7	2877.9	3126.3	3229.1	3180.6	3063.6	2765.5
5°	15555.5	6394.2	3297.0	2866.0	2723.7	2828.1	3102.8	3233.6	3194.0	3084.1	2855.2
2.5°	17490.6	6985.5	3365.2	2889.0	2715.2	2797.9	3088.5	3236.4	3202.1	3096.4	2909.3
0°	18145.1	7184.9	3388.1	2896.7	2712.4	2787.8	3083.7	3237.3	3204.8	3100.5	2927.4
-2.5°	17490.6	6985.5	3365.2	2889.0	2715.2	2797.9	3088.5	3236.4	3202.1	3096.4	2909.3
-5°	15555.5	6394.2	3297.0	2866.0	2723.7	2828.1	3102.8	3233.6	3194.0	3084.1	2855.2
-7.5°	12419.7	5430.3	3185.4	2828.3	2737.7	2877.9	3126.3	3229.1	3180.6	3063.6	2765.5
-10°	8198.7	4122.8	3033.1	2776.7	2756.9	2946.6	3158.9	3222.7	3162.0	3035.3	2640.8
-12.5°	5744.4	3274.0	2876.8	2712.5	2781.0	3033.2	3200.1	3214.7	3138.4	2999.3	2482.0
-15°	3670.3	3029.6	2793.2	2743.8	2873.7	3111.2	3234.7	3205.1	3109.9	2955.8	2290.3
-17.5°	3125.3	2843.5	2718.1	2779.5	3002.7	3172.9	3222.7	3170.1	3061.4	2821.4	2061.2
-20°	2860.5	2730.5	2760.9	2910.7	3116.3	3236.3	3209.1	3129.8	2999.5	2547.0	1761.6



REPORT NUMBER: P731204 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	2730.5	2754.6	2863.8	3079.7	3198.0	3220.2	3170.7	3075.3	2930.9	2242.0	1428.0
-25°	2760.9	2863.8	3057.1	3175.6	3227.0	3198.6	3118.7	2994.8	2585.4	1874.1	1110.3
-27.5°	2910.7	3079.7	3175.6	3229.3	3207.3	3139.1	3038.3	2836.4	2198.8	1448.5	1050.9
-30°	3116.3	3198.0	3227.0	3207.3	3146.0	3060.3	2940.3	2396.0	1730.1	1100.0	987.2
-32.5°	3236.3	3220.2	3198.6	3139.1	3060.3	2951.0	2495.7	1901.5	1215.3	1027.6	953.9
-35°	3209.1	3170.7	3118.7	3038.3	2940.3	2495.7	1959.0	1327.3	1052.1	964.8	929.5
-37.5°	3129.8	3075.3	2994.8	2836.4	2396.0	1901.5	1327.3	1060.4	970.3	937.5	908.5
-40°	2999.5	2930.9	2585.4	2198.8	1730.1	1215.3	1052.1	970.3	940.3	912.4	888.7
-42.5°	2547.0	2242.0	1874.1	1448.5	1100.0	1027.6	964.8	937.5	912.4	890.7	834.9
-45°	1761.6	1428.0	1110.3	1050.9	987.2	953.9	929.5	908.5	888.7	834.9	769.8
-47.5°	1084.0	1037.7	986.8	958.1	937.8	917.6	900.7	880.2	823.2	763.2	692.9
-50°	964.9	950.3	934.2	917.9	904.0	889.2	851.0	800.1	743.5	679.9	612.1
-52.5°	919.9	909.9	899.0	887.0	853.0	810.7	765.2	710.9	654.1	591.4	525.1
-55°	886.0	861.4	830.3	796.4	758.5	713.6	666.0	614.1	557.3	498.0	438.3
-57.5°	784.7	757.3	724.7	689.1	650.6	607.2	559.9	510.1	459.0	406.0	352.4
-60°	666.0	639.1	607.2	572.2	534.3	493.8	452.0	407.8	361.3	320.8	278.7
-62.5°	537.5	511.3	482.7	452.0	418.8	383.1	347.7	314.3	279.2	242.7	207.7
-65°	409.4	386.6	361.3	338.2	313.4	286.7	258.2	229.7	200.8	170.4	139.9
-67.5°	295.5	278.7	260.0	240.2	220.0	198.3	175.1	150.5	129.5	109.4	88.4
-70°	194.9	181.4	166.4	149.9	135.0	120.9	105.8	89.7	72.8	61.1	52.1
-72.5°	110.1	101.5	91.9	81.3	69.9	62.4	56.0	49.2	42.0	34.4	28.8
-75°	53.3	49.7	45.7	41.3	36.5	31.4	28.6	26.9	25.0	23.1	21.0
-77.5°	26.4	25.5	24.5	23.4	22.2	20.9	19.6	18.3	17.4	16.5	15.5
-80°	17.0	16.6	16.1	15.6	15.1	14.5	13.9	13.2	12.5	11.8	11.1
-82.5°	11.1	10.8	10.5	10.2	9.8	9.5	9.0	8.6	8.2	7.7	7.2
-85°	6.2	6.1	6.0	5.9	5.7	5.6	5.5	5.3	5.2	5.0	4.9
-87.5°	3.5	3.4	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6
-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: P731204 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-1S-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°	2.5	2.4	2.3	2.1	2.0	1.8	1.7	1.6	1.4	1.3	1.1
85°	4.7	4.5	4.3	4.1	3.9	3.7	3.4	3.1	2.8	2.5	2.2
82.5°	6.6	6.3	6.0	5.7	5.4	5.1	4.8	4.4	4.1	3.8	3.3
80°	10.4	9.7	8.9	8.1	7.3	6.5	6.1	5.6	5.2	4.7	4.3
77.5°	14.5	13.4	12.3	11.3	10.3	9.2	8.1	7.1	6.2	5.7	5.1
75°	18.9	17.5	16.2	14.8	13.4	12.0	10.7	9.4	8.0	6.7	5.9
72.5°	26.3	23.7	21.1	18.4	16.8	15.1	13.4	11.7	10.1	8.5	6.9
70°	42.6	32.8	27.6	24.5	21.2	18.2	16.2	14.2	12.2	10.3	8.5
67.5°	66.8	55.7	44.3	32.5	27.0	23.2	19.4	16.8	14.5	12.2	10.1
65°	115.5	90.3	65.6	52.5	39.1	28.5	24.2	19.9	16.8	14.2	11.7
62.5°	171.3	136.2	107.5	77.9	57.6	42.4	29.0	24.2	19.4	16.2	13.4
60°	236.1	194.9	152.4	117.8	84.8	59.2	42.4	28.5	23.2	18.2	15.1
57.5°	305.0	256.0	209.1	161.9	121.3	84.8	57.6	39.1	27.0	21.2	16.8
55°	376.6	320.9	266.5	213.9	161.9	117.8	77.9	52.5	32.5	24.5	18.4
52.5°	457.9	389.5	326.2	266.5	209.1	152.4	107.5	65.6	44.3	27.6	21.1
50°	538.8	464.4	389.5	320.9	256.0	194.9	136.2	90.3	55.7	32.8	23.7
47.5°	619.1	538.8	457.9	376.6	305.0	236.1	171.3	115.5	66.8	42.6	26.3
45°	692.9	612.1	525.1	438.3	352.4	278.7	207.7	139.9	88.4	52.1	28.8
42.5°	763.2	679.9	591.4	498.0	406.0	320.8	242.7	170.4	109.4	61.1	34.4
40°	823.2	743.5	654.1	557.3	459.0	361.3	279.2	200.8	129.5	72.8	42.0
37.5°	880.2	800.1	710.9	614.1	510.1	407.8	314.3	229.7	150.5	89.7	49.2
35°	900.7	851.0	765.2	666.0	559.9	452.0	347.7	258.2	175.1	105.8	56.0
32.5°	917.6	889.2	810.7	713.6	607.2	493.8	383.1	286.7	198.3	120.9	62.4
30°	937.8	904.0	853.0	758.5	650.6	534.3	418.8	313.4	220.0	135.0	69.9
27.5°	958.1	917.9	887.0	796.4	689.1	572.2	452.0	338.2	240.2	149.9	81.3
25°	986.8	934.2	899.0	830.3	724.7	607.2	482.7	361.3	260.0	166.4	91.9
22.5°	1037.7	950.3	909.9	861.4	757.3	639.1	511.3	386.6	278.7	181.4	101.5
20°	1084.0	964.9	919.9	886.0	784.7	666.0	537.5	409.4	295.5	194.9	110.1
17.5°	1163.8	990.0	931.4	894.2	807.6	690.0	560.8	429.7	310.5	206.9	117.8
15°	1406.9	1023.6	942.0	901.3	827.7	710.9	581.2	447.4	323.6	217.4	124.5
12.5°	1615.3	1052.3	951.0	907.4	844.9	728.8	598.6	462.4	334.7	226.3	130.2
10°	1787.5	1076.1	958.4	912.5	859.0	743.5	612.9	474.8	343.9	233.6	134.9
7.5°	1922.7	1094.7	964.3	916.4	870.0	755.0	624.1	484.5	351.0	239.3	138.6
5°	2019.9	1108.1	968.4	919.2	877.9	763.2	632.1	491.4	356.1	243.4	141.2
2.5°	2078.4	1116.1	971.0	920.9	882.7	768.1	636.9	495.6	359.2	245.9	142.8
0°	2098.0	1118.8	971.8	921.5	884.3	769.8	638.5	497.0	360.2	246.7	143.3
-2.5°	2078.4	1116.1	971.0	920.9	882.7	768.1	636.9	495.6	359.2	245.9	142.8
-5°	2019.9	1108.1	968.4	919.2	877.9	763.2	632.1	491.4	356.1	243.4	141.2
-7.5°	1922.7	1094.7	964.3	916.4	870.0	755.0	624.1	484.5	351.0	239.3	138.6
-10°	1787.5	1076.1	958.4	912.5	859.0	743.5	612.9	474.8	343.9	233.6	134.9
-12.5°	1615.3	1052.3	951.0	907.4	844.9	728.8	598.6	462.4	334.7	226.3	130.2
-15°	1406.9	1023.6	942.0	901.3	827.7	710.9	581.2	447.4	323.6	217.4	124.5
-17.5°	1163.8	990.0	931.4	894.2	807.6	690.0	560.8	429.7	310.5	206.9	117.8
-20°	1084.0	964.9	919.9	886.0	784.7	666.0	537.5	409.4	295.5	194.9	110.1



REPORT NUMBER: P731204 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1037.7	950.3	909.9	861.4	757.3	639.1	511.3	386.6	278.7	181.4	101.5
-25°	986.8	934.2	899.0	830.3	724.7	607.2	482.7	361.3	260.0	166.4	91.9
-27.5°	958.1	917.9	887.0	796.4	689.1	572.2	452.0	338.2	240.2	149.9	81.3
-30°	937.8	904.0	853.0	758.5	650.6	534.3	418.8	313.4	220.0	135.0	69.9
-32.5°	917.6	889.2	810.7	713.6	607.2	493.8	383.1	286.7	198.3	120.9	62.4
-35°	900.7	851.0	765.2	666.0	559.9	452.0	347.7	258.2	175.1	105.8	56.0
-37.5°	880.2	800.1	710.9	614.1	510.1	407.8	314.3	229.7	150.5	89.7	49.2
-40°	823.2	743.5	654.1	557.3	459.0	361.3	279.2	200.8	129.5	72.8	42.0
-42.5°	763.2	679.9	591.4	498.0	406.0	320.8	242.7	170.4	109.4	61.1	34.4
-45°	692.9	612.1	525.1	438.3	352.4	278.7	207.7	139.9	88.4	52.1	28.8
-47.5°	619.1	538.8	457.9	376.6	305.0	236.1	171.3	115.5	66.8	42.6	26.3
-50°	538.8	464.4	389.5	320.9	256.0	194.9	136.2	90.3	55.7	32.8	23.7
-52.5°	457.9	389.5	326.2	266.5	209.1	152.4	107.5	65.6	44.3	27.6	21.1
-55°	376.6	320.9	266.5	213.9	161.9	117.8	77.9	52.5	32.5	24.5	18.4
-57.5°	305.0	256.0	209.1	161.9	121.3	84.8	57.6	39.1	27.0	21.2	16.8
-60°	236.1	194.9	152.4	117.8	84.8	59.2	42.4	28.5	23.2	18.2	15.1
-62.5°	171.3	136.2	107.5	77.9	57.6	42.4	29.0	24.2	19.4	16.2	13.4
-65°	115.5	90.3	65.6	52.5	39.1	28.5	24.2	19.9	16.8	14.2	11.7
-67.5°	66.8	55.7	44.3	32.5	27.0	23.2	19.4	16.8	14.5	12.2	10.1
-70°	42.6	32.8	27.6	24.5	21.2	18.2	16.2	14.2	12.2	10.3	8.5
-72.5°	26.3	23.7	21.1	18.4	16.8	15.1	13.4	11.7	10.1	8.5	6.9
-75°	18.9	17.5	16.2	14.8	13.4	12.0	10.7	9.4	8.0	6.7	5.9
-77.5°	14.5	13.4	12.3	11.3	10.3	9.2	8.1	7.1	6.2	5.7	5.1
-80°	10.4	9.7	8.9	8.1	7.3	6.5	6.1	5.6	5.2	4.7	4.3
-82.5°	6.6	6.3	6.0	5.7	5.4	5.1	4.8	4.4	4.1	3.8	3.3
-85°	4.7	4.5	4.3	4.1	3.9	3.7	3.4	3.1	2.8	2.5	2.2
-87.5°	2.5	2.4	2.3	2.1	2.0	1.8	1.7	1.6	1.4	1.3	1.1
-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):

	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°	1.0	0.8	0.6	0.5	0.3	0.2	0.0
85°	1.9	1.6	1.3	1.0	0.6	0.3	0.0
82.5°	2.9	2.4	1.9	1.4	1.0	0.5	0.0
80°	3.8	3.2	2.6	1.9	1.3	0.6	0.0
77.5°	4.5	3.9	3.2	2.4	1.6	0.8	0.0
75°	5.2	4.5	3.8	2.9	1.9	1.0	0.0
72.5°	5.9	5.1	4.3	3.3	2.2	1.1	0.0
70°	6.7	5.7	4.7	3.8	2.5	1.3	0.0
67.5°	8.0	6.2	5.2	4.1	2.8	1.4	0.0
65°	9.4	7.1	5.6	4.4	3.1	1.6	0.0
62.5°	10.7	8.1	6.1	4.8	3.4	1.7	0.0
60°	12.0	9.2	6.5	5.1	3.7	1.8	0.0
57.5°	13.4	10.3	7.3	5.4	3.9	2.0	0.0
55°	14.8	11.3	8.1	5.7	4.1	2.1	0.0
52.5°	16.2	12.3	8.9	6.0	4.3	2.3	0.0
50°	17.5	13.4	9.7	6.3	4.5	2.4	0.0
47.5°	18.9	14.5	10.4	6.6	4.7	2.5	0.0
45°	21.0	15.5	11.1	7.2	4.9	2.6	0.0
42.5°	23.1	16.5	11.8	7.7	5.0	2.7	0.0
40°	25.0	17.4	12.5	8.2	5.2	2.8	0.0
37.5°	26.9	18.3	13.2	8.6	5.3	2.9	0.0
35°	28.6	19.6	13.9	9.0	5.5	3.0	0.0
32.5°	31.4	20.9	14.5	9.5	5.6	3.1	0.0
30°	36.5	22.2	15.1	9.8	5.7	3.2	0.0
27.5°	41.3	23.4	15.6	10.2	5.9	3.3	0.0
25°	45.7	24.5	16.1	10.5	6.0	3.4	0.0
22.5°	49.7	25.5	16.6	10.8	6.1	3.4	0.0
20°	53.3	26.4	17.0	11.1	6.2	3.5	0.0
17.5°	56.4	27.2	17.4	11.3	6.2	3.5	0.0
15°	59.2	27.9	17.7	11.5	6.3	3.6	0.0
12.5°	61.6	28.5	18.0	11.7	6.4	3.6	0.0
10°	63.5	28.9	18.2	11.8	6.4	3.6	0.0
7.5°	65.0	29.3	18.4	12.0	6.5	3.7	0.0
5°	66.1	29.6	18.5	12.0	6.5	3.7	0.0
2.5°	66.8	29.7	18.6	12.1	6.5	3.7	0.0
0°	67.0	29.8	18.6	12.1	6.5	3.7	0.0
-2.5°	66.8	29.7	18.6	12.1	6.5	3.7	0.0
-5°	66.1	29.6	18.5	12.0	6.5	3.7	0.0
-7.5°	65.0	29.3	18.4	12.0	6.5	3.7	0.0
-10°	63.5	28.9	18.2	11.8	6.4	3.6	0.0
-12.5°	61.6	28.5	18.0	11.7	6.4	3.6	0.0
-15°	59.2	27.9	17.7	11.5	6.3	3.6	0.0
-17.5°	56.4	27.2	17.4	11.3	6.2	3.5	0.0
-20°	53.3	26.4	17.0	11.1	6.2	3.5	0.0



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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	49.7	25.5	16.6	10.8	6.1	3.4	0.0
-25°	45.7	24.5	16.1	10.5	6.0	3.4	0.0
-27.5°	41.3	23.4	15.6	10.2	5.9	3.3	0.0
-30°	36.5	22.2	15.1	9.8	5.7	3.2	0.0
-32.5°	31.4	20.9	14.5	9.5	5.6	3.1	0.0
-35°	28.6	19.6	13.9	9.0	5.5	3.0	0.0
-37.5°	26.9	18.3	13.2	8.6	5.3	2.9	0.0
-40°	25.0	17.4	12.5	8.2	5.2	2.8	0.0
-42.5°	23.1	16.5	11.8	7.7	5.0	2.7	0.0
-45°	21.0	15.5	11.1	7.2	4.9	2.6	0.0
-47.5°	18.9	14.5	10.4	6.6	4.7	2.5	0.0
-50°	17.5	13.4	9.7	6.3	4.5	2.4	0.0
-52.5°	16.2	12.3	8.9	6.0	4.3	2.3	0.0
-55°	14.8	11.3	8.1	5.7	4.1	2.1	0.0
-57.5°	13.4	10.3	7.3	5.4	3.9	2.0	0.0
-60°	12.0	9.2	6.5	5.1	3.7	1.8	0.0
-62.5°	10.7	8.1	6.1	4.8	3.4	1.7	0.0
-65°	9.4	7.1	5.6	4.4	3.1	1.6	0.0
-67.5°	8.0	6.2	5.2	4.1	2.8	1.4	0.0
-70°	6.7	5.7	4.7	3.8	2.5	1.3	0.0
-72.5°	5.9	5.1	4.3	3.3	2.2	1.1	0.0
-75°	5.2	4.5	3.8	2.9	1.9	1.0	0.0
-77.5°	4.5	3.9	3.2	2.4	1.6	0.8	0.0
-80°	3.8	3.2	2.6	1.9	1.3	0.6	0.0
-82.5°	2.9	2.4	1.9	1.4	1.0	0.5	0.0
-85°	1.9	1.6	1.3	1.0	0.6	0.3	0.0
-87.5°	1.0	0.8	0.6	0.5	0.3	0.2	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

