

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: P731296 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-57-70-3S-HEG**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731296 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-08-0680N-57-70-3S-HEG
Description: EPHEBUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 3S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

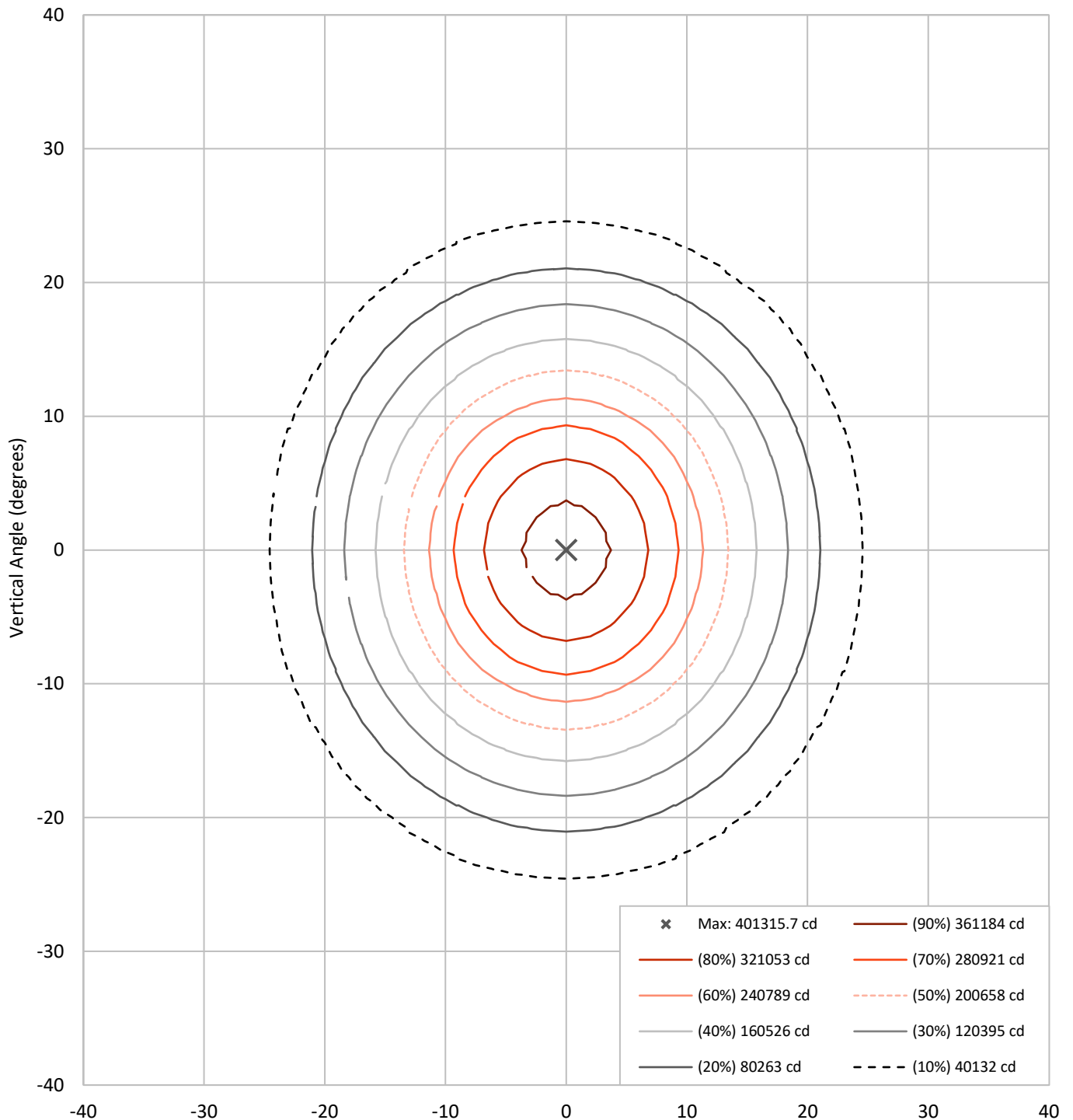
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	108390.1 lumens	Max Intensity:	401315.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	155.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	26.9°H x 26.9°V	Field Angle (10%):	48.9°H x 48.9°V
Beam Lumens:	46996.2 lumens	Field Lumens:	89974.4 lumens
Beam Efficiency:	43.4%	Field Efficiency:	83.0%

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





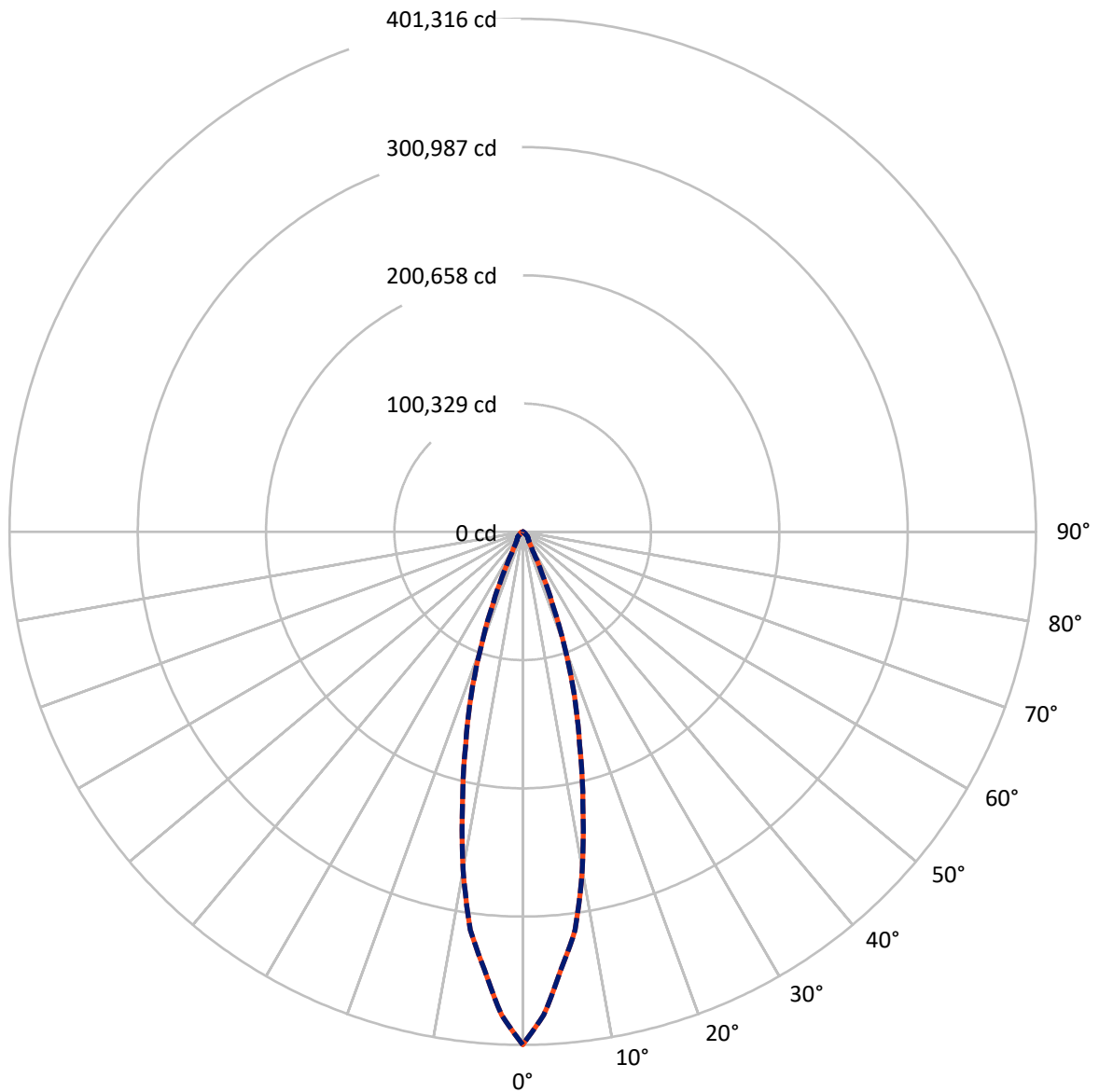
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Lumen Table

90	0.1		1.0		3.7		9.8		13.0		9.8		3.7		1.0		0.1	
80	0.1		1.0		3.7		9.8		13.0		9.8		3.7		1.0		0.1	
70	0.4	0.6	2.4	7.2	14.1	21.5	27.5	30.9	30.9	27.5	21.5	14.1	7.2	2.4	0.6	0.4		
60		1.8	8.4	19.8	33.9	48.4	60.0	66.3	66.3	60.0	48.4	33.9	19.8	8.4	1.8			
50	1.3	4.5	16.1	34.3	56.8	89.4	127.9	150.1	150.1	127.9	89.4	56.8	34.3	16.1	4.5	1.3		
40		7.5	23.9	49.1	100.2	165.0	212.3	249.3	249.3	212.3	165.0	100.2	49.1	23.9	7.5			
30	2.9	10.3	30.9	70.3	149.4	236.5	546.8	1124.6	1124.6	546.8	236.5	149.4	70.3	30.9	10.3	2.9		
20		12.4	36.0	94.7	180.6	516.2	2392.2	4790.5	4790.5	2392.2	516.2	180.6	94.7	36.0	12.4			
10	3.7	13.5	38.6	107.6	206.1	1035.2	4659.3	9189.2	9189.2	4659.3	1035.2	206.1	107.6	38.6	13.5	3.7		
0		13.5	38.6	107.6	206.1	1035.2	4659.3	9189.2	9189.2	4659.3	1035.2	206.1	107.6	38.6	13.5			
-10	2.9	12.4	36.0	94.7	180.6	516.2	2392.2	4790.5	4790.5	2392.2	516.2	180.6	94.7	36.0	12.4	2.9		
-20		10.3	30.9	70.3	149.4	236.5	546.8	1124.6	1124.6	546.8	236.5	149.4	70.3	30.9	10.3			
-30	1.3	7.5	23.9	49.1	100.2	165.0	212.3	249.3	249.3	212.3	165.0	100.2	49.1	23.9	7.5	1.3		
-40		4.5	16.1	34.3	56.8	89.4	127.9	150.1	150.1	127.9	89.4	56.8	34.3	16.1	4.5			
-50	0.4	1.8	8.4	19.8	33.9	48.4	60.0	66.3	66.3	60.0	48.4	33.9	19.8	8.4	1.8	0.4		
-60		0.6	2.4	7.2	14.1	21.5	27.5	30.9	30.9	27.5	21.5	14.1	7.2	2.4	0.6			
-70	0.1	1.0		3.7		9.8		13.0		9.8		3.7		1.0		0.1		
-80		1.0		3.7		9.8		13.0		9.8		3.7		1.0				
-90	0.1		1.0		3.7		9.8		13.0		9.8		3.7		1.0		0.1	

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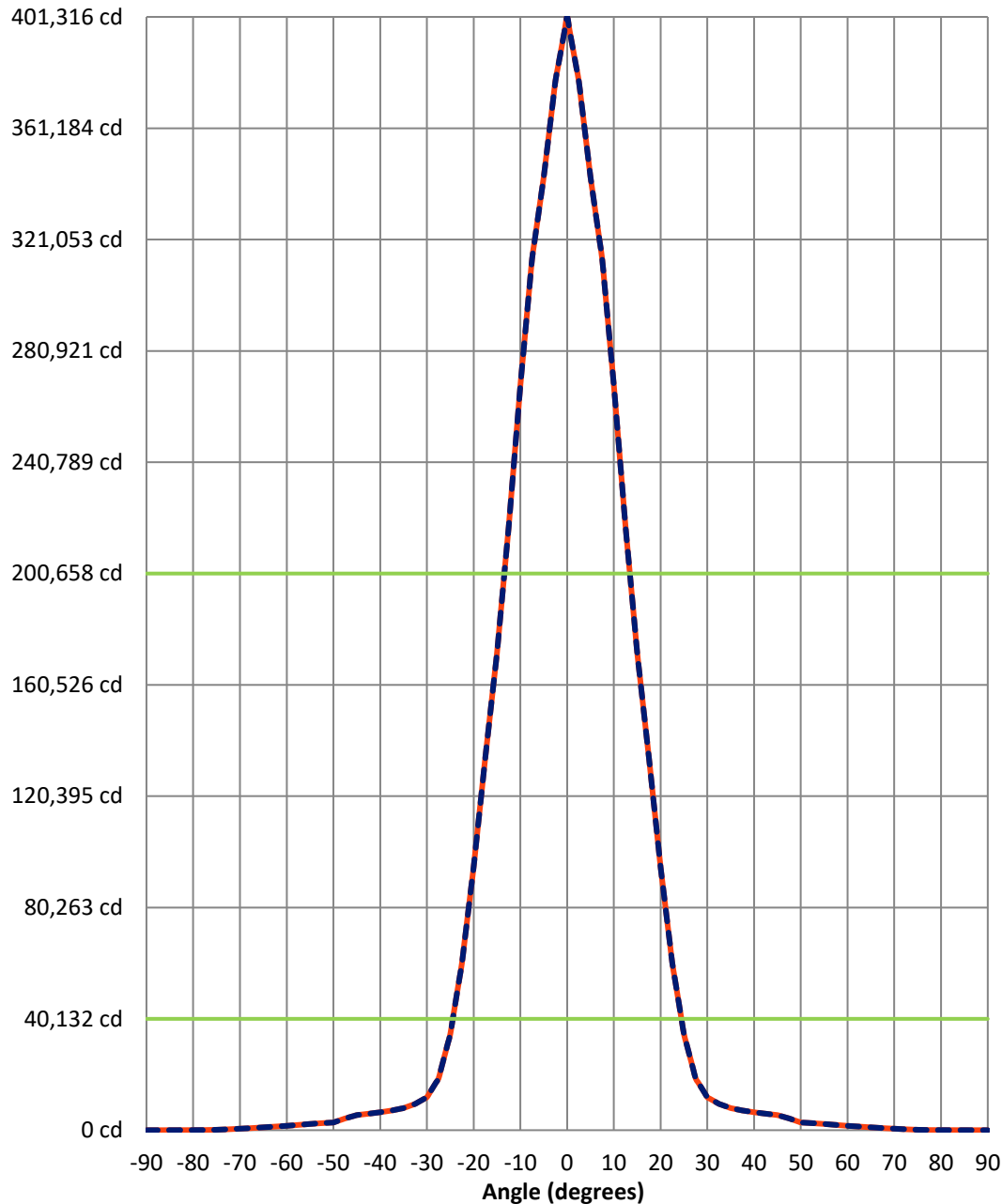
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 26.9°
 V Angle: 26.9°
 Lumens: 46996.2
 Efficiency: 43.4%

Field:
 H Angle: 48.9°
 V Angle: 48.9°
 Lumens: 89974.4
 Efficiency: 83.0%

Spill:
 Lumens: 18415.7
 Efficiency: 17.0%

- 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	0.3	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	7.4	8.1	8.8
80°	0.0	1.3	2.5	3.8	5.0	6.3	7.5	8.4	9.3	10.2	11.1
77.5°	0.0	1.6	3.2	4.7	6.3	7.7	8.9	10.0	11.1	12.3	13.7
75°	0.0	1.9	3.8	5.7	7.5	8.9	10.3	11.6	13.1	15.3	17.5
72.5°	0.0	2.2	4.4	6.6	8.4	10.0	11.6	13.5	16.1	18.7	21.2
70°	0.0	2.5	5.0	7.4	9.3	11.1	13.1	16.1	19.1	22.0	26.1
67.5°	0.0	2.8	5.6	8.1	10.2	12.3	15.3	18.7	22.0	26.6	31.2
65°	0.0	3.1	6.2	8.8	11.1	13.7	17.5	21.2	26.1	31.2	37.6
62.5°	0.0	3.4	6.7	9.4	11.9	15.5	19.6	24.4	30.0	36.5	47.5
60°	0.0	3.6	7.3	10.0	12.8	17.2	21.7	27.8	33.9	45.2	57.1
57.5°	0.0	3.9	7.7	10.6	14.1	18.9	24.4	31.1	40.7	53.7	82.1
55°	0.0	4.2	8.1	11.2	15.4	20.6	27.2	34.4	48.1	66.5	113.7
52.5°	0.0	4.4	8.5	11.8	16.7	22.3	29.9	40.3	55.3	94.2	144.5
50°	0.0	4.7	8.9	12.4	17.9	24.4	32.5	46.4	67.2	121.1	200.6
47.5°	0.0	4.9	9.2	13.0	19.1	26.5	35.4	52.3	90.3	147.1	257.9
45°	0.0	5.2	9.6	13.9	20.3	28.6	40.3	57.9	112.5	196.2	313.2
42.5°	0.0	5.4	9.9	14.7	21.4	30.5	44.9	71.0	133.9	243.9	378.3
40°	0.0	5.6	10.2	15.5	22.6	32.4	49.3	88.8	160.8	289.6	442.7
37.5°	0.0	5.8	10.5	16.2	24.0	34.1	53.6	105.8	199.3	336.2	504.0
35°	0.0	6.0	10.8	16.9	25.4	36.9	57.6	121.8	235.7	388.3	561.6
32.5°	0.0	6.2	11.1	17.6	26.6	40.0	64.0	136.9	270.1	437.4	615.1
30°	0.0	6.3	11.3	18.2	27.8	42.9	76.0	154.3	302.2	483.4	665.3
27.5°	0.0	6.5	11.6	18.8	28.9	45.6	87.2	180.3	335.0	526.2	712.0
25°	0.0	6.6	11.8	19.3	29.9	48.1	97.5	204.2	369.8	565.0	755.6
22.5°	0.0	6.7	12.0	19.8	30.8	50.4	106.9	226.0	401.6	600.1	805.4
20°	0.0	6.9	12.1	20.2	31.6	52.4	115.4	245.7	430.2	631.7	850.4
17.5°	0.0	7.0	12.3	20.6	32.3	54.2	122.9	263.2	455.6	659.9	890.4
15°	0.0	7.1	12.4	21.0	32.9	55.8	129.4	278.4	477.8	684.5	925.3
12.5°	0.0	7.1	12.5	21.2	33.5	57.1	135.0	291.4	496.7	705.4	955.0
10°	0.0	7.2	12.6	21.5	33.9	58.2	139.5	302.0	512.2	722.6	979.5
7.5°	0.0	7.2	12.7	21.7	34.3	59.1	143.1	310.3	524.3	736.0	998.5
5°	0.0	7.3	12.8	21.8	34.5	59.7	145.7	316.2	533.0	745.6	1012.2
2.5°	0.0	7.3	12.8	21.9	34.7	60.1	147.2	319.8	538.2	751.4	1020.5
0°	0.0	7.3	12.8	21.9	34.7	60.1	147.2	319.8	538.2	751.4	1020.5
-2.5°	0.0	7.3	12.8	21.9	34.7	60.1	147.2	319.8	538.2	751.4	1020.5
-5°	0.0	7.3	12.8	21.8	34.5	59.7	145.7	316.2	533.0	745.6	1012.2
-7.5°	0.0	7.2	12.7	21.7	34.3	59.1	143.1	310.3	524.3	736.0	998.5
-10°	0.0	7.2	12.6	21.5	33.9	58.2	139.5	302.0	512.2	722.6	979.5
-12.5°	0.0	7.1	12.5	21.2	33.5	57.1	135.0	291.4	496.7	705.4	955.0
-15°	0.0	7.1	12.4	21.0	32.9	55.8	129.4	278.4	477.8	684.5	925.3
-17.5°	0.0	7.0	12.3	20.6	32.3	54.2	122.9	263.2	455.6	659.9	890.4
-20°	0.0	6.9	12.1	20.2	31.6	52.4	115.4	245.7	430.2	631.7	850.4



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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	6.7	12.0	19.8	30.8	50.4	106.9	226.0	401.6	600.1	805.4
-25°	0.0	6.6	11.8	19.3	29.9	48.1	97.5	204.2	369.8	565.0	755.6
-27.5°	0.0	6.5	11.6	18.8	28.9	45.6	87.2	180.3	335.0	526.2	712.0
-30°	0.0	6.3	11.3	18.2	27.8	42.9	76.0	154.3	302.2	483.4	665.3
-32.5°	0.0	6.2	11.1	17.6	26.6	40.0	64.0	136.9	270.1	437.4	615.1
-35°	0.0	6.0	10.8	16.9	25.4	36.9	57.6	121.8	235.7	388.3	561.6
-37.5°	0.0	5.8	10.5	16.2	24.0	34.1	53.6	105.8	199.3	336.2	504.0
-40°	0.0	5.6	10.2	15.5	22.6	32.4	49.3	88.8	160.8	289.6	442.7
-42.5°	0.0	5.4	9.9	14.7	21.4	30.5	44.9	71.0	133.9	243.9	378.3
-45°	0.0	5.2	9.6	13.9	20.3	28.6	40.3	57.9	112.5	196.2	313.2
-47.5°	0.0	4.9	9.2	13.0	19.1	26.5	35.4	52.3	90.3	147.1	257.9
-50°	0.0	4.7	8.9	12.4	17.9	24.4	32.5	46.4	67.2	121.1	200.6
-52.5°	0.0	4.4	8.5	11.8	16.7	22.3	29.9	40.3	55.3	94.2	144.5
-55°	0.0	4.2	8.1	11.2	15.4	20.6	27.2	34.4	48.1	66.5	113.7
-57.5°	0.0	3.9	7.7	10.6	14.1	18.9	24.4	31.1	40.7	53.7	82.1
-60°	0.0	3.6	7.3	10.0	12.8	17.2	21.7	27.8	33.9	45.2	57.1
-62.5°	0.0	3.4	6.7	9.4	11.9	15.5	19.6	24.4	30.0	36.5	47.5
-65°	0.0	3.1	6.2	8.8	11.1	13.7	17.5	21.2	26.1	31.2	37.6
-67.5°	0.0	2.8	5.6	8.1	10.2	12.3	15.3	18.7	22.0	26.6	31.2
-70°	0.0	2.5	5.0	7.4	9.3	11.1	13.1	16.1	19.1	22.0	26.1
-72.5°	0.0	2.2	4.4	6.6	8.4	10.0	11.6	13.5	16.1	18.7	21.2
-75°	0.0	1.9	3.8	5.7	7.5	8.9	10.3	11.6	13.1	15.3	17.5
-77.5°	0.0	1.6	3.2	4.7	6.3	7.7	8.9	10.0	11.1	12.3	13.7
-80°	0.0	1.3	2.5	3.8	5.0	6.3	7.5	8.4	9.3	10.2	11.1
-82.5°	0.0	1.0	1.9	2.9	3.8	4.7	5.7	6.6	7.4	8.1	8.8
-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



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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	3.6	3.9	4.2	4.4	4.7	4.9	5.2	5.4	5.6	5.8
85°	6.7	7.3	7.7	8.1	8.5	8.9	9.2	9.6	9.9	10.2	10.5
82.5°	9.4	10.0	10.6	11.2	11.8	12.4	13.0	13.9	14.7	15.5	16.2
80°	11.9	12.8	14.1	15.4	16.7	17.9	19.1	20.3	21.4	22.6	24.0
77.5°	15.5	17.2	18.9	20.6	22.3	24.4	26.5	28.6	30.5	32.4	34.1
75°	19.6	21.7	24.4	27.2	29.9	32.5	35.4	40.3	44.9	49.3	53.6
72.5°	24.4	27.8	31.1	34.4	40.3	46.4	52.3	57.9	71.0	88.8	105.8
70°	30.0	33.9	40.7	48.1	55.3	67.2	90.3	112.5	133.9	160.8	199.3
67.5°	36.5	45.2	53.7	66.5	94.2	121.1	147.1	196.2	243.9	289.6	336.2
65°	47.5	57.1	82.1	113.7	144.5	200.6	257.9	313.2	378.3	442.7	504.0
62.5°	58.3	89.9	125.5	172.5	239.6	304.8	380.3	457.3	531.4	600.9	667.0
60°	89.9	129.4	188.2	263.2	340.3	430.2	517.4	600.1	679.2	755.6	847.3
57.5°	125.5	188.2	271.1	360.4	460.4	557.3	649.5	738.7	843.7	948.2	1048.6
55°	172.5	263.2	360.4	470.5	577.2	679.4	785.6	907.4	1025.1	1140.5	1251.0
52.5°	239.6	340.3	460.4	577.2	689.5	811.1	946.0	1077.9	1207.0	1330.4	1446.5
50°	304.8	430.2	557.3	679.4	811.1	958.9	1104.5	1247.3	1383.2	1512.9	1654.5
47.5°	380.3	517.4	649.5	785.6	946.0	1104.5	1260.8	1409.7	1553.2	1721.6	1886.7
45°	457.3	600.1	738.7	907.4	1077.9	1247.3	1409.7	1566.7	1755.5	1939.9	2123.7
42.5°	531.4	679.2	843.7	1025.1	1207.0	1383.2	1553.2	1755.5	1957.9	2160.3	2337.1
40°	600.9	755.6	948.2	1140.5	1330.4	1512.9	1721.6	1939.9	2160.3	2352.6	2524.8
37.5°	667.0	847.3	1048.6	1251.0	1446.5	1654.5	1886.7	2123.7	2337.1	2524.8	2677.3
35°	729.8	934.5	1145.7	1354.8	1557.3	1802.0	2051.3	2290.9	2493.3	2663.9	3083.8
32.5°	798.6	1016.9	1237.6	1452.0	1685.1	1944.1	2208.5	2430.8	2624.0	2916.4	3941.4
30°	868.9	1095.8	1323.3	1543.5	1807.9	2082.4	2338.4	2558.3	2741.7	3685.5	4668.1
27.5°	934.5	1169.5	1401.9	1643.9	1923.9	2212.1	2454.5	2661.9	3264.8	4381.5	5308.3
25°	995.0	1237.6	1474.6	1742.1	2035.2	2317.9	2557.7	2758.5	3900.5	4943.5	5633.1
22.5°	1051.0	1299.9	1541.2	1832.2	2137.5	2410.1	2640.5	3234.2	4444.3	5450.6	5862.8
20°	1102.0	1354.8	1609.8	1914.5	2230.4	2494.0	2715.8	3732.5	4887.6	5646.6	6082.5
17.5°	1147.5	1403.7	1676.4	1990.6	2301.9	2562.9	2839.5	4180.0	5286.6	5823.4	6285.4
15°	1187.2	1446.5	1734.6	2057.2	2362.3	2617.5	3202.7	4514.5	5521.8	5982.5	6466.4
12.5°	1221.0	1482.9	1784.3	2114.1	2414.0	2664.2	3513.9	4793.2	5645.8	6125.6	6656.9
10°	1248.8	1512.9	1825.2	2161.0	2456.7	2702.8	3771.3	5024.0	5748.7	6244.5	6815.4
7.5°	1270.5	1536.4	1857.2	2197.7	2490.1	2733.1	3973.1	5205.2	5829.7	6338.1	6940.6
5°	1286.1	1553.2	1880.2	2224.1	2514.0	2754.8	4118.3	5335.7	5888.0	6405.7	7031.0
2.5°	1295.5	1563.3	1894.0	2239.9	2528.5	2767.9	4205.8	5414.3	5923.1	6446.5	7085.6
0°	1298.6	1566.7	1898.6	2245.2	2533.3	2772.3	4235.0	5440.6	5934.9	6460.1	7103.9
-2.5°	1295.5	1563.3	1894.0	2239.9	2528.5	2767.9	4205.8	5414.3	5923.1	6446.5	7085.6
-5°	1286.1	1553.2	1880.2	2224.1	2514.0	2754.8	4118.3	5335.7	5888.0	6405.7	7031.0
-7.5°	1270.5	1536.4	1857.2	2197.7	2490.1	2733.1	3973.1	5205.2	5829.7	6338.1	6940.6
-10°	1248.8	1512.9	1825.2	2161.0	2456.7	2702.8	3771.3	5024.0	5748.7	6244.5	6815.4
-12.5°	1221.0	1482.9	1784.3	2114.1	2414.0	2664.2	3513.9	4793.2	5645.8	6125.6	6656.9
-15°	1187.2	1446.5	1734.6	2057.2	2362.3	2617.5	3202.7	4514.5	5521.8	5982.5	6466.4
-17.5°	1147.5	1403.7	1676.4	1990.6	2301.9	2562.9	2839.5	4180.0	5286.6	5823.4	6285.4
-20°	1102.0	1354.8	1609.8	1914.5	2230.4	2494.0	2715.8	3732.5	4887.6	5646.6	6082.5



REPORT NUMBER: P731296 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-70-3S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1051.0	1299.9	1541.2	1832.2	2137.5	2410.1	2640.5	3234.2	4444.3	5450.6	5862.8
-25°	995.0	1237.6	1474.6	1742.1	2035.2	2317.9	2557.7	2758.5	3900.5	4943.5	5633.1
-27.5°	934.5	1169.5	1401.9	1643.9	1923.9	2212.1	2454.5	2661.9	3264.8	4381.5	5308.3
-30°	868.9	1095.8	1323.3	1543.5	1807.9	2082.4	2338.4	2558.3	2741.7	3685.5	4668.1
-32.5°	798.6	1016.9	1237.6	1452.0	1685.1	1944.1	2208.5	2430.8	2624.0	2916.4	3941.4
-35°	729.8	934.5	1145.7	1354.8	1557.3	1802.0	2051.3	2290.9	2493.3	2663.9	3083.8
-37.5°	667.0	847.3	1048.6	1251.0	1446.5	1654.5	1886.7	2123.7	2337.1	2524.8	2677.3
-40°	600.9	755.6	948.2	1140.5	1330.4	1512.9	1721.6	1939.9	2160.3	2352.6	2524.8
-42.5°	531.4	679.2	843.7	1025.1	1207.0	1383.2	1553.2	1755.5	1957.9	2160.3	2337.1
-45°	457.3	600.1	738.7	907.4	1077.9	1247.3	1409.7	1566.7	1755.5	1939.9	2123.7
-47.5°	380.3	517.4	649.5	785.6	946.0	1104.5	1260.8	1409.7	1553.2	1721.6	1886.7
-50°	304.8	430.2	557.3	679.4	811.1	958.9	1104.5	1247.3	1383.2	1512.9	1654.5
-52.5°	239.6	340.3	460.4	577.2	689.5	811.1	946.0	1077.9	1207.0	1330.4	1446.5
-55°	172.5	263.2	360.4	470.5	577.2	679.4	785.6	907.4	1025.1	1140.5	1251.0
-57.5°	125.5	188.2	271.1	360.4	460.4	557.3	649.5	738.7	843.7	948.2	1048.6
-60°	89.9	129.4	188.2	263.2	340.3	430.2	517.4	600.1	679.2	755.6	847.3
-62.5°	58.3	89.9	125.5	172.5	239.6	304.8	380.3	457.3	531.4	600.9	667.0
-65°	47.5	57.1	82.1	113.7	144.5	200.6	257.9	313.2	378.3	442.7	504.0
-67.5°	36.5	45.2	53.7	66.5	94.2	121.1	147.1	196.2	243.9	289.6	336.2
-70°	30.0	33.9	40.7	48.1	55.3	67.2	90.3	112.5	133.9	160.8	199.3
-72.5°	24.4	27.8	31.1	34.4	40.3	46.4	52.3	57.9	71.0	88.8	105.8
-75°	19.6	21.7	24.4	27.2	29.9	32.5	35.4	40.3	44.9	49.3	53.6
-77.5°	15.5	17.2	18.9	20.6	22.3	24.4	26.5	28.6	30.5	32.4	34.1
-80°	11.9	12.8	14.1	15.4	16.7	17.9	19.1	20.3	21.4	22.6	24.0
-82.5°	9.4	10.0	10.6	11.2	11.8	12.4	13.0	13.9	14.7	15.5	16.2
-85°	6.7	7.3	7.7	8.1	8.5	8.9	9.2	9.6	9.9	10.2	10.5
-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: P731296 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	6.0	6.2	6.3	6.5	6.6	6.7	6.9	7.0	7.1	7.1	7.2
85°	10.8	11.1	11.3	11.6	11.8	12.0	12.1	12.3	12.4	12.5	12.6
82.5°	16.9	17.6	18.2	18.8	19.3	19.8	20.2	20.6	21.0	21.2	21.5
80°	25.4	26.6	27.8	28.9	29.9	30.8	31.6	32.3	32.9	33.5	33.9
77.5°	36.9	40.0	42.9	45.6	48.1	50.4	52.4	54.2	55.8	57.1	58.2
75°	57.6	64.0	76.0	87.2	97.5	106.9	115.4	122.9	129.4	135.0	139.5
72.5°	121.8	136.9	154.3	180.3	204.2	226.0	245.7	263.2	278.4	291.4	302.0
70°	235.7	270.1	302.2	335.0	369.8	401.6	430.2	455.6	477.8	496.7	512.2
67.5°	388.3	437.4	483.4	526.2	565.0	600.1	631.7	659.9	684.5	705.4	722.6
65°	561.6	615.1	665.3	712.0	755.6	805.4	850.4	890.4	925.3	955.0	979.5
62.5°	729.8	798.6	868.9	934.5	995.0	1051.0	1102.0	1147.5	1187.2	1221.0	1248.8
60°	934.5	1016.9	1095.8	1169.5	1237.6	1299.9	1354.8	1403.7	1446.5	1482.9	1512.9
57.5°	1145.7	1237.6	1323.3	1401.9	1474.6	1541.2	1609.8	1676.4	1734.6	1784.3	1825.2
55°	1354.8	1452.0	1543.5	1643.9	1742.1	1832.2	1914.5	1990.6	2057.2	2114.1	2161.0
52.5°	1557.3	1685.1	1807.9	1923.9	2035.2	2137.5	2230.4	2301.9	2362.3	2414.0	2456.7
50°	1802.0	1944.1	2082.4	2212.1	2317.9	2410.1	2494.0	2562.9	2617.5	2664.2	2702.8
47.5°	2051.3	2208.5	2338.4	2454.5	2557.7	2640.5	2715.8	2839.5	3202.7	3513.9	3771.3
45°	2290.9	2430.8	2558.3	2661.9	2758.5	3234.2	3732.5	4180.0	4514.5	4793.2	5024.0
42.5°	2493.3	2624.0	2741.7	3264.8	3900.5	4444.3	4887.6	5286.6	5521.8	5645.8	5748.7
40°	2663.9	2916.4	3685.5	4381.5	4943.5	5450.6	5646.6	5823.4	5982.5	6125.6	6244.5
37.5°	3083.8	3941.4	4668.1	5308.3	5633.1	5862.8	6082.5	6285.4	6466.4	6656.9	6815.4
35°	4027.3	4813.1	5477.5	5757.3	6026.6	6288.4	6545.5	6814.0	7052.8	7310.8	7540.3
32.5°	4813.1	5508.1	5820.2	6129.4	6428.8	6765.7	7083.9	7462.5	7806.4	8219.5	8665.7
30°	5477.5	5820.2	6164.0	6509.1	6900.5	7322.9	7777.5	8376.6	9041.3	9698.7	10460.8
27.5°	5757.3	6129.4	6509.1	6945.9	7447.6	7980.0	8850.9	9745.8	10873.0	11861.7	14239.2
25°	6026.6	6428.8	6900.5	7447.6	8096.3	9092.6	10333.7	11684.9	14847.0	17934.2	23091.4
22.5°	6288.4	6765.7	7322.9	7980.0	9092.6	10532.5	12535.1	16703.6	22978.3	30900.2	39560.9
20°	6545.5	7083.9	7777.5	8850.9	10333.7	12535.1	17333.3	26080.1	36504.4	50513.1	63444.8
17.5°	6814.0	7462.5	8376.6	9745.8	11684.9	16703.6	26080.1	39182.0	56191.2	75594.0	93788.3
15°	7052.8	7806.4	9041.3	10873.0	14847.0	22978.3	36504.4	56191.2	79761.2	103814.8	127021.8
12.5°	7310.8	8219.5	9698.7	11861.7	17934.2	30900.2	50513.1	75594.0	103814.8	132658.2	157631.0
10°	7540.3	8665.7	10460.8	14239.2	23091.4	39560.9	63444.8	93788.3	127021.8	157631.0	187422.2
7.5°	7721.8	9019.6	11067.3	16145.9	28027.2	48391.4	76778.4	110766.8	145944.4	179868.3	217960.0
5°	7853.2	9276.3	11508.3	17537.3	31645.1	54901.6	86684.4	123627.8	160117.7	199663.4	243233.7
2.5°	7932.7	9432.0	11776.2	18384.5	33855.2	58895.5	92797.0	131629.0	169041.5	212947.1	261783.9
0°	7959.3	9484.1	11866.1	18669.1	34598.7	60242.2	94864.6	134347.6	172094.3	217528.6	268460.0
-2.5°	7932.7	9432.0	11776.2	18384.5	33855.2	58895.5	92797.0	131629.0	169041.5	212947.1	261783.9
-5°	7853.2	9276.3	11508.3	17537.3	31645.1	54901.6	86684.4	123627.8	160117.7	199663.4	243233.7
-7.5°	7721.8	9019.6	11067.3	16145.9	28027.2	48391.4	76778.4	110766.8	145944.4	179868.3	217960.0
-10°	7540.3	8665.7	10460.8	14239.2	23091.4	39560.9	63444.8	93788.3	127021.8	157631.0	187422.2
-12.5°	7310.8	8219.5	9698.7	11861.7	17934.2	30900.2	50513.1	75594.0	103814.8	132658.2	157631.0
-15°	7052.8	7806.4	9041.3	10873.0	14847.0	22978.3	36504.4	56191.2	79761.2	103814.8	127021.8
-17.5°	6814.0	7462.5	8376.6	9745.8	11684.9	16703.6	26080.1	39182.0	56191.2	75594.0	93788.3
-20°	6545.5	7083.9	7777.5	8850.9	10333.7	12535.1	17333.3	26080.1	36504.4	50513.1	63444.8



REPORT NUMBER: P731296 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-70-3S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	6288.4	6765.7	7322.9	7980.0	9092.6	10532.5	12535.1	16703.6	22978.3	30900.2	39560.9
-25°	6026.6	6428.8	6900.5	7447.6	8096.3	9092.6	10333.7	11684.9	14847.0	17934.2	23091.4
-27.5°	5757.3	6129.4	6509.1	6945.9	7447.6	7980.0	8850.9	9745.8	10873.0	11861.7	14239.2
-30°	5477.5	5820.2	6164.0	6509.1	6900.5	7322.9	7777.5	8376.6	9041.3	9698.7	10460.8
-32.5°	4813.1	5508.1	5820.2	6129.4	6428.8	6765.7	7083.9	7462.5	7806.4	8219.5	8665.7
-35°	4027.3	4813.1	5477.5	5757.3	6026.6	6288.4	6545.5	6814.0	7052.8	7310.8	7540.3
-37.5°	3083.8	3941.4	4668.1	5308.3	5633.1	5862.8	6082.5	6285.4	6466.4	6656.9	6815.4
-40°	2663.9	2916.4	3685.5	4381.5	4943.5	5450.6	5646.6	5823.4	5982.5	6125.6	6244.5
-42.5°	2493.3	2624.0	2741.7	3264.8	3900.5	4444.3	4887.6	5286.6	5521.8	5645.8	5748.7
-45°	2290.9	2430.8	2558.3	2661.9	2758.5	3234.2	3732.5	4180.0	4514.5	4793.2	5024.0
-47.5°	2051.3	2208.5	2338.4	2454.5	2557.7	2640.5	2715.8	2839.5	3202.7	3513.9	3771.3
-50°	1802.0	1944.1	2082.4	2212.1	2317.9	2410.1	2494.0	2562.9	2617.5	2664.2	2702.8
-52.5°	1557.3	1685.1	1807.9	1923.9	2035.2	2137.5	2230.4	2301.9	2362.3	2414.0	2456.7
-55°	1354.8	1452.0	1543.5	1643.9	1742.1	1832.2	1914.5	1990.6	2057.2	2114.1	2161.0
-57.5°	1145.7	1237.6	1323.3	1401.9	1474.6	1541.2	1609.8	1676.4	1734.6	1784.3	1825.2
-60°	934.5	1016.9	1095.8	1169.5	1237.6	1299.9	1354.8	1403.7	1446.5	1482.9	1512.9
-62.5°	729.8	798.6	868.9	934.5	995.0	1051.0	1102.0	1147.5	1187.2	1221.0	1248.8
-65°	561.6	615.1	665.3	712.0	755.6	805.4	850.4	890.4	925.3	955.0	979.5
-67.5°	388.3	437.4	483.4	526.2	565.0	600.1	631.7	659.9	684.5	705.4	722.6
-70°	235.7	270.1	302.2	335.0	369.8	401.6	430.2	455.6	477.8	496.7	512.2
-72.5°	121.8	136.9	154.3	180.3	204.2	226.0	245.7	263.2	278.4	291.4	302.0
-75°	57.6	64.0	76.0	87.2	97.5	106.9	115.4	122.9	129.4	135.0	139.5
-77.5°	36.9	40.0	42.9	45.6	48.1	50.4	52.4	54.2	55.8	57.1	58.2
-80°	25.4	26.6	27.8	28.9	29.9	30.8	31.6	32.3	32.9	33.5	33.9
-82.5°	16.9	17.6	18.2	18.8	19.3	19.8	20.2	20.6	21.0	21.2	21.5
-85°	10.8	11.1	11.3	11.6	11.8	12.0	12.1	12.3	12.4	12.5	12.6
-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: P731296 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-70-3S-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°	12.7	12.8	12.8	12.8	12.8	12.8	12.7	12.6	12.5	12.4	12.3
82.5°	21.7	21.8	21.9	21.9	21.9	21.8	21.7	21.5	21.2	21.0	20.6
80°	34.3	34.5	34.7	34.7	34.7	34.5	34.3	33.9	33.5	32.9	32.3
77.5°	59.1	59.7	60.1	60.2	60.1	59.7	59.1	58.2	57.1	55.8	54.2
75°	143.1	145.7	147.2	147.7	147.2	145.7	143.1	139.5	135.0	129.4	122.9
72.5°	310.3	316.2	319.8	321.0	319.8	316.2	310.3	302.0	291.4	278.4	263.2
70°	524.3	533.0	538.2	539.9	538.2	533.0	524.3	512.2	496.7	477.8	455.6
67.5°	736.0	745.6	751.4	753.3	751.4	745.6	736.0	722.6	705.4	684.5	659.9
65°	998.5	1012.2	1020.5	1023.2	1020.5	1012.2	998.5	979.5	955.0	925.3	890.4
62.5°	1270.5	1286.1	1295.5	1298.6	1295.5	1286.1	1270.5	1248.8	1221.0	1187.2	1147.5
60°	1536.4	1553.2	1563.3	1566.7	1563.3	1553.2	1536.4	1512.9	1482.9	1446.5	1403.7
57.5°	1857.2	1880.2	1894.0	1898.6	1894.0	1880.2	1857.2	1825.2	1784.3	1734.6	1676.4
55°	2197.7	2224.1	2239.9	2245.2	2239.9	2224.1	2197.7	2161.0	2114.1	2057.2	1990.6
52.5°	2490.1	2514.0	2528.5	2533.3	2528.5	2514.0	2490.1	2456.7	2414.0	2362.3	2301.9
50°	2733.1	2754.8	2767.9	2772.3	2767.9	2754.8	2733.1	2702.8	2664.2	2617.5	2562.9
47.5°	3973.1	4118.3	4205.8	4235.0	4205.8	4118.3	3973.1	3771.3	3513.9	3202.7	2839.5
45°	5205.2	5335.7	5414.3	5440.6	5414.3	5335.7	5205.2	5024.0	4793.2	4514.5	4180.0
42.5°	5829.7	5888.0	5923.1	5934.9	5923.1	5888.0	5829.7	5748.7	5645.8	5521.8	5286.6
40°	6338.1	6405.7	6446.5	6460.1	6446.5	6405.7	6338.1	6244.5	6125.6	5982.5	5823.4
37.5°	6940.6	7031.0	7085.6	7103.9	7085.6	7031.0	6940.6	6815.4	6656.9	6466.4	6285.4
35°	7721.8	7853.2	7932.7	7959.3	7932.7	7853.2	7721.8	7540.3	7310.8	7052.8	6814.0
32.5°	9019.6	9276.3	9432.0	9484.1	9432.0	9276.3	9019.6	8665.7	8219.5	7806.4	7462.5
30°	11067.3	11508.3	11776.2	11866.1	11776.2	11508.3	11067.3	10460.8	9698.7	9041.3	8376.6
27.5°	16145.9	17537.3	18384.5	18669.1	18384.5	17537.3	16145.9	14239.2	11861.7	10873.0	9745.8
25°	28027.2	31645.1	33855.2	34598.7	33855.2	31645.1	28027.2	23091.4	17934.2	14847.0	11684.9
22.5°	48391.4	54901.6	58895.5	60242.2	58895.5	54901.6	48391.4	39560.9	30900.2	22978.3	16703.6
20°	76778.4	86684.4	92797.0	94864.6	92797.0	86684.4	76778.4	63444.8	50513.1	36504.4	26080.1
17.5°	110766.8	123627.8	131629.0	134347.6	131629.0	123627.8	110766.8	93788.3	75594.0	56191.2	39182.0
15°	145944.4	160117.7	169041.5	172094.3	169041.5	160117.7	145944.4	127021.8	103814.8	79761.2	56191.2
12.5°	179868.3	199663.4	212947.1	217528.6	212947.1	199663.4	179868.3	157631.0	132658.2	103814.8	75594.0
10°	217960.0	243233.7	261783.9	268460.0	261783.9	243233.7	217960.0	187422.2	157631.0	127021.8	93788.3
7.5°	255501.1	289619.8	308492.6	314095.8	308492.6	289619.8	255501.1	217960.0	179868.3	145944.4	110766.8
5°	289619.8	320115.6	337571.5	343610.5	337571.5	320115.6	289619.8	243233.7	199663.4	160117.7	123627.8
2.5°	308492.6	337571.5	361801.9	378243.8	361801.9	337571.5	308492.6	261783.9	212947.1	169041.5	131629.0
0°	314095.8	343610.5	378243.8	401315.7	378243.8	343610.5	314095.8	268460.0	217528.6	172094.3	134347.6
-2.5°	308492.6	337571.5	361801.9	378243.8	361801.9	337571.5	308492.6	261783.9	212947.1	169041.5	131629.0
-5°	289619.8	320115.6	337571.5	343610.5	337571.5	320115.6	289619.8	243233.7	199663.4	160117.7	123627.8
-7.5°	255501.1	289619.8	308492.6	314095.8	308492.6	289619.8	255501.1	217960.0	179868.3	145944.4	110766.8
-10°	217960.0	243233.7	261783.9	268460.0	261783.9	243233.7	217960.0	187422.2	157631.0	127021.8	93788.3
-12.5°	179868.3	199663.4	212947.1	217528.6	212947.1	199663.4	179868.3	157631.0	132658.2	103814.8	75594.0
-15°	145944.4	160117.7	169041.5	172094.3	169041.5	160117.7	145944.4	127021.8	103814.8	79761.2	56191.2
-17.5°	110766.8	123627.8	131629.0	134347.6	131629.0	123627.8	110766.8	93788.3	75594.0	56191.2	39182.0
-20°	76778.4	86684.4	92797.0	94864.6	92797.0	86684.4	76778.4	63444.8	50513.1	36504.4	26080.1



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	48391.4	54901.6	58895.5	60242.2	58895.5	54901.6	48391.4	39560.9	30900.2	22978.3	16703.6
-25°	28027.2	31645.1	33855.2	34598.7	33855.2	31645.1	28027.2	23091.4	17934.2	14847.0	11684.9
-27.5°	16145.9	17537.3	18384.5	18669.1	18384.5	17537.3	16145.9	14239.2	11861.7	10873.0	9745.8
-30°	11067.3	11508.3	11776.2	11866.1	11776.2	11508.3	11067.3	10460.8	9698.7	9041.3	8376.6
-32.5°	9019.6	9276.3	9432.0	9484.1	9432.0	9276.3	9019.6	8665.7	8219.5	7806.4	7462.5
-35°	7721.8	7853.2	7932.7	7959.3	7932.7	7853.2	7721.8	7540.3	7310.8	7052.8	6814.0
-37.5°	6940.6	7031.0	7085.6	7103.9	7085.6	7031.0	6940.6	6815.4	6656.9	6466.4	6285.4
-40°	6338.1	6405.7	6446.5	6460.1	6446.5	6405.7	6338.1	6244.5	6125.6	5982.5	5823.4
-42.5°	5829.7	5888.0	5923.1	5934.9	5923.1	5888.0	5829.7	5748.7	5645.8	5521.8	5286.6
-45°	5205.2	5335.7	5414.3	5440.6	5414.3	5335.7	5205.2	5024.0	4793.2	4514.5	4180.0
-47.5°	3973.1	4118.3	4205.8	4235.0	4205.8	4118.3	3973.1	3771.3	3513.9	3202.7	2839.5
-50°	2733.1	2754.8	2767.9	2772.3	2767.9	2754.8	2733.1	2702.8	2664.2	2617.5	2562.9
-52.5°	2490.1	2514.0	2528.5	2533.3	2528.5	2514.0	2490.1	2456.7	2414.0	2362.3	2301.9
-55°	2197.7	2224.1	2239.9	2245.2	2239.9	2224.1	2197.7	2161.0	2114.1	2057.2	1990.6
-57.5°	1857.2	1880.2	1894.0	1898.6	1894.0	1880.2	1857.2	1825.2	1784.3	1734.6	1676.4
-60°	1536.4	1553.2	1563.3	1566.7	1563.3	1553.2	1536.4	1512.9	1482.9	1446.5	1403.7
-62.5°	1270.5	1286.1	1295.5	1298.6	1295.5	1286.1	1270.5	1248.8	1221.0	1187.2	1147.5
-65°	998.5	1012.2	1020.5	1023.2	1020.5	1012.2	998.5	979.5	955.0	925.3	890.4
-67.5°	736.0	745.6	751.4	753.3	751.4	745.6	736.0	722.6	705.4	684.5	659.9
-70°	524.3	533.0	538.2	539.9	538.2	533.0	524.3	512.2	496.7	477.8	455.6
-72.5°	310.3	316.2	319.8	321.0	319.8	316.2	310.3	302.0	291.4	278.4	263.2
-75°	143.1	145.7	147.2	147.7	147.2	145.7	143.1	139.5	135.0	129.4	122.9
-77.5°	59.1	59.7	60.1	60.2	60.1	59.7	59.1	58.2	57.1	55.8	54.2
-80°	34.3	34.5	34.7	34.7	34.7	34.5	34.3	33.9	33.5	32.9	32.3
-82.5°	21.7	21.8	21.9	21.9	21.9	21.8	21.7	21.5	21.2	21.0	20.6
-85°	12.7	12.8	12.8	12.8	12.8	12.8	12.7	12.6	12.5	12.4	12.3
-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



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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°	6.9	6.7	6.6	6.5	6.3	6.2	6.0	5.8	5.6	5.4	5.2
85°	12.1	12.0	11.8	11.6	11.3	11.1	10.8	10.5	10.2	9.9	9.6
82.5°	20.2	19.8	19.3	18.8	18.2	17.6	16.9	16.2	15.5	14.7	13.9
80°	31.6	30.8	29.9	28.9	27.8	26.6	25.4	24.0	22.6	21.4	20.3
77.5°	52.4	50.4	48.1	45.6	42.9	40.0	36.9	34.1	32.4	30.5	28.6
75°	115.4	106.9	97.5	87.2	76.0	64.0	57.6	53.6	49.3	44.9	40.3
72.5°	245.7	226.0	204.2	180.3	154.3	136.9	121.8	105.8	88.8	71.0	57.9
70°	430.2	401.6	369.8	335.0	302.2	270.1	235.7	199.3	160.8	133.9	112.5
67.5°	631.7	600.1	565.0	526.2	483.4	437.4	388.3	336.2	289.6	243.9	196.2
65°	850.4	805.4	755.6	712.0	665.3	615.1	561.6	504.0	442.7	378.3	313.2
62.5°	1102.0	1051.0	995.0	934.5	868.9	798.6	729.8	667.0	600.9	531.4	457.3
60°	1354.8	1299.9	1237.6	1169.5	1095.8	1016.9	934.5	847.3	755.6	679.2	600.1
57.5°	1609.8	1541.2	1474.6	1401.9	1323.3	1237.6	1145.7	1048.6	948.2	843.7	738.7
55°	1914.5	1832.2	1742.1	1643.9	1543.5	1452.0	1354.8	1251.0	1140.5	1025.1	907.4
52.5°	2230.4	2137.5	2035.2	1923.9	1807.9	1685.1	1557.3	1446.5	1330.4	1207.0	1077.9
50°	2494.0	2410.1	2317.9	2212.1	2082.4	1944.1	1802.0	1654.5	1512.9	1383.2	1247.3
47.5°	2715.8	2640.5	2557.7	2454.5	2338.4	2208.5	2051.3	1886.7	1721.6	1553.2	1409.7
45°	3732.5	3234.2	2758.5	2661.9	2558.3	2430.8	2290.9	2123.7	1939.9	1755.5	1566.7
42.5°	4887.6	4444.3	3900.5	3264.8	2741.7	2624.0	2493.3	2337.1	2160.3	1957.9	1755.5
40°	5646.6	5450.6	4943.5	4381.5	3685.5	2916.4	2663.9	2524.8	2352.6	2160.3	1939.9
37.5°	6082.5	5862.8	5633.1	5308.3	4668.1	3941.4	3083.8	2677.3	2524.8	2337.1	2123.7
35°	6545.5	6288.4	6026.6	5757.3	5477.5	4813.1	4027.3	3083.8	2663.9	2493.3	2290.9
32.5°	7083.9	6765.7	6428.8	6129.4	5820.2	5508.1	4813.1	3941.4	2916.4	2624.0	2430.8
30°	7777.5	7322.9	6900.5	6509.1	6164.0	5820.2	5477.5	4668.1	3685.5	2741.7	2558.3
27.5°	8850.9	7980.0	7447.6	6945.9	6509.1	6129.4	5757.3	5308.3	4381.5	3264.8	2661.9
25°	10333.7	9092.6	8096.3	7447.6	6900.5	6428.8	6026.6	5633.1	4943.5	3900.5	2758.5
22.5°	12535.1	10532.5	9092.6	7980.0	7322.9	6765.7	6288.4	5862.8	5450.6	4444.3	3234.2
20°	17333.3	12535.1	10333.7	8850.9	7777.5	7083.9	6545.5	6082.5	5646.6	4887.6	3732.5
17.5°	26080.1	16703.6	11684.9	9745.8	8376.6	7462.5	6814.0	6285.4	5823.4	5286.6	4180.0
15°	36504.4	22978.3	14847.0	10873.0	9041.3	7806.4	7052.8	6466.4	5982.5	5521.8	4514.5
12.5°	50513.1	30900.2	17934.2	11861.7	9698.7	8219.5	7310.8	6656.9	6125.6	5645.8	4793.2
10°	63444.8	39560.9	23091.4	14239.2	10460.8	8665.7	7540.3	6815.4	6244.5	5748.7	5024.0
7.5°	76778.4	48391.4	28027.2	16145.9	11067.3	9019.6	7721.8	6940.6	6338.1	5829.7	5205.2
5°	86684.4	54901.6	31645.1	17537.3	11508.3	9276.3	7853.2	7031.0	6405.7	5888.0	5335.7
2.5°	92797.0	58895.5	33855.2	18384.5	11776.2	9432.0	7932.7	7085.6	6446.5	5923.1	5414.3
0°	94864.6	60242.2	34598.7	18669.1	11866.1	9484.1	7959.3	7103.9	6460.1	5934.9	5440.6
-2.5°	92797.0	58895.5	33855.2	18384.5	11776.2	9432.0	7932.7	7085.6	6446.5	5923.1	5414.3
-5°	86684.4	54901.6	31645.1	17537.3	11508.3	9276.3	7853.2	7031.0	6405.7	5888.0	5335.7
-7.5°	76778.4	48391.4	28027.2	16145.9	11067.3	9019.6	7721.8	6940.6	6338.1	5829.7	5205.2
-10°	63444.8	39560.9	23091.4	14239.2	10460.8	8665.7	7540.3	6815.4	6244.5	5748.7	5024.0
-12.5°	50513.1	30900.2	17934.2	11861.7	9698.7	8219.5	7310.8	6656.9	6125.6	5645.8	4793.2
-15°	36504.4	22978.3	14847.0	10873.0	9041.3	7806.4	7052.8	6466.4	5982.5	5521.8	4514.5
-17.5°	26080.1	16703.6	11684.9	9745.8	8376.6	7462.5	6814.0	6285.4	5823.4	5286.6	4180.0
-20°	17333.3	12535.1	10333.7	8850.9	7777.5	7083.9	6545.5	6082.5	5646.6	4887.6	3732.5



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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°	12535.1	10532.5	9092.6	7980.0	7322.9	6765.7	6288.4	5862.8	5450.6	4444.3	3234.2
-25°	10333.7	9092.6	8096.3	7447.6	6900.5	6428.8	6026.6	5633.1	4943.5	3900.5	2758.5
-27.5°	8850.9	7980.0	7447.6	6945.9	6509.1	6129.4	5757.3	5308.3	4381.5	3264.8	2661.9
-30°	7777.5	7322.9	6900.5	6509.1	6164.0	5820.2	5477.5	4668.1	3685.5	2741.7	2558.3
-32.5°	7083.9	6765.7	6428.8	6129.4	5820.2	5508.1	4813.1	3941.4	2916.4	2624.0	2430.8
-35°	6545.5	6288.4	6026.6	5757.3	5477.5	4813.1	4027.3	3083.8	2663.9	2493.3	2290.9
-37.5°	6082.5	5862.8	5633.1	5308.3	4668.1	3941.4	3083.8	2677.3	2524.8	2337.1	2123.7
-40°	5646.6	5450.6	4943.5	4381.5	3685.5	2916.4	2663.9	2524.8	2352.6	2160.3	1939.9
-42.5°	4887.6	4444.3	3900.5	3264.8	2741.7	2624.0	2493.3	2337.1	2160.3	1957.9	1755.5
-45°	3732.5	3234.2	2758.5	2661.9	2558.3	2430.8	2290.9	2123.7	1939.9	1755.5	1566.7
-47.5°	2715.8	2640.5	2557.7	2454.5	2338.4	2208.5	2051.3	1886.7	1721.6	1553.2	1409.7
-50°	2494.0	2410.1	2317.9	2212.1	2082.4	1944.1	1802.0	1654.5	1512.9	1383.2	1247.3
-52.5°	2230.4	2137.5	2035.2	1923.9	1807.9	1685.1	1557.3	1446.5	1330.4	1207.0	1077.9
-55°	1914.5	1832.2	1742.1	1643.9	1543.5	1452.0	1354.8	1251.0	1140.5	1025.1	907.4
-57.5°	1609.8	1541.2	1474.6	1401.9	1323.3	1237.6	1145.7	1048.6	948.2	843.7	738.7
-60°	1354.8	1299.9	1237.6	1169.5	1095.8	1016.9	934.5	847.3	755.6	679.2	600.1
-62.5°	1102.0	1051.0	995.0	934.5	868.9	798.6	729.8	667.0	600.9	531.4	457.3
-65°	850.4	805.4	755.6	712.0	665.3	615.1	561.6	504.0	442.7	378.3	313.2
-67.5°	631.7	600.1	565.0	526.2	483.4	437.4	388.3	336.2	289.6	243.9	196.2
-70°	430.2	401.6	369.8	335.0	302.2	270.1	235.7	199.3	160.8	133.9	112.5
-72.5°	245.7	226.0	204.2	180.3	154.3	136.9	121.8	105.8	88.8	71.0	57.9
-75°	115.4	106.9	97.5	87.2	76.0	64.0	57.6	53.6	49.3	44.9	40.3
-77.5°	52.4	50.4	48.1	45.6	42.9	40.0	36.9	34.1	32.4	30.5	28.6
-80°	31.6	30.8	29.9	28.9	27.8	26.6	25.4	24.0	22.6	21.4	20.3
-82.5°	20.2	19.8	19.3	18.8	18.2	17.6	16.9	16.2	15.5	14.7	13.9
-85°	12.1	12.0	11.8	11.6	11.3	11.1	10.8	10.5	10.2	9.9	9.6
-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: P731296 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-70-3S-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°	9.2	8.9	8.5	8.1	7.7	7.3	6.7	6.2	5.6	5.0	4.4
82.5°	13.0	12.4	11.8	11.2	10.6	10.0	9.4	8.8	8.1	7.4	6.6
80°	19.1	17.9	16.7	15.4	14.1	12.8	11.9	11.1	10.2	9.3	8.4
77.5°	26.5	24.4	22.3	20.6	18.9	17.2	15.5	13.7	12.3	11.1	10.0
75°	35.4	32.5	29.9	27.2	24.4	21.7	19.6	17.5	15.3	13.1	11.6
72.5°	52.3	46.4	40.3	34.4	31.1	27.8	24.4	21.2	18.7	16.1	13.5
70°	90.3	67.2	55.3	48.1	40.7	33.9	30.0	26.1	22.0	19.1	16.1
67.5°	147.1	121.1	94.2	66.5	53.7	45.2	36.5	31.2	26.6	22.0	18.7
65°	257.9	200.6	144.5	113.7	82.1	57.1	47.5	37.6	31.2	26.1	21.2
62.5°	380.3	304.8	239.6	172.5	125.5	89.9	58.3	47.5	36.5	30.0	24.4
60°	517.4	430.2	340.3	263.2	188.2	129.4	89.9	57.1	45.2	33.9	27.8
57.5°	649.5	557.3	460.4	360.4	271.1	188.2	125.5	82.1	53.7	40.7	31.1
55°	785.6	679.4	577.2	470.5	360.4	263.2	172.5	113.7	66.5	48.1	34.4
52.5°	946.0	811.1	689.5	577.2	460.4	340.3	239.6	144.5	94.2	55.3	40.3
50°	1104.5	958.9	811.1	679.4	557.3	430.2	304.8	200.6	121.1	67.2	46.4
47.5°	1260.8	1104.5	946.0	785.6	649.5	517.4	380.3	257.9	147.1	90.3	52.3
45°	1409.7	1247.3	1077.9	907.4	738.7	600.1	457.3	313.2	196.2	112.5	57.9
42.5°	1553.2	1383.2	1207.0	1025.1	843.7	679.2	531.4	378.3	243.9	133.9	71.0
40°	1721.6	1512.9	1330.4	1140.5	948.2	755.6	600.9	442.7	289.6	160.8	88.8
37.5°	1886.7	1654.5	1446.5	1251.0	1048.6	847.3	667.0	504.0	336.2	199.3	105.8
35°	2051.3	1802.0	1557.3	1354.8	1145.7	934.5	729.8	561.6	388.3	235.7	121.8
32.5°	2208.5	1944.1	1685.1	1452.0	1237.6	1016.9	798.6	615.1	437.4	270.1	136.9
30°	2338.4	2082.4	1807.9	1543.5	1323.3	1095.8	868.9	665.3	483.4	302.2	154.3
27.5°	2454.5	2212.1	1923.9	1643.9	1401.9	1169.5	934.5	712.0	526.2	335.0	180.3
25°	2557.7	2317.9	2035.2	1742.1	1474.6	1237.6	995.0	755.6	565.0	369.8	204.2
22.5°	2640.5	2410.1	2137.5	1832.2	1541.2	1299.9	1051.0	805.4	600.1	401.6	226.0
20°	2715.8	2494.0	2230.4	1914.5	1609.8	1354.8	1102.0	850.4	631.7	430.2	245.7
17.5°	2839.5	2562.9	2301.9	1990.6	1676.4	1403.7	1147.5	890.4	659.9	455.6	263.2
15°	3202.7	2617.5	2362.3	2057.2	1734.6	1446.5	1187.2	925.3	684.5	477.8	278.4
12.5°	3513.9	2664.2	2414.0	2114.1	1784.3	1482.9	1221.0	955.0	705.4	496.7	291.4
10°	3771.3	2702.8	2456.7	2161.0	1825.2	1512.9	1248.8	979.5	722.6	512.2	302.0
7.5°	3973.1	2733.1	2490.1	2197.7	1857.2	1536.4	1270.5	998.5	736.0	524.3	310.3
5°	4118.3	2754.8	2514.0	2224.1	1880.2	1553.2	1286.1	1012.2	745.6	533.0	316.2
2.5°	4205.8	2767.9	2528.5	2239.9	1894.0	1563.3	1295.5	1020.5	751.4	538.2	319.8
0°	4235.0	2772.3	2533.3	2245.2	1898.6	1566.7	1298.6	1023.2	753.3	539.9	321.0
-2.5°	4205.8	2767.9	2528.5	2239.9	1894.0	1563.3	1295.5	1020.5	751.4	538.2	319.8
-5°	4118.3	2754.8	2514.0	2224.1	1880.2	1553.2	1286.1	1012.2	745.6	533.0	316.2
-7.5°	3973.1	2733.1	2490.1	2197.7	1857.2	1536.4	1270.5	998.5	736.0	524.3	310.3
-10°	3771.3	2702.8	2456.7	2161.0	1825.2	1512.9	1248.8	979.5	722.6	512.2	302.0
-12.5°	3513.9	2664.2	2414.0	2114.1	1784.3	1482.9	1221.0	955.0	705.4	496.7	291.4
-15°	3202.7	2617.5	2362.3	2057.2	1734.6	1446.5	1187.2	925.3	684.5	477.8	278.4
-17.5°	2839.5	2562.9	2301.9	1990.6	1676.4	1403.7	1147.5	890.4	659.9	455.6	263.2
-20°	2715.8	2494.0	2230.4	1914.5	1609.8	1354.8	1102.0	850.4	631.7	430.2	245.7



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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°	2640.5	2410.1	2137.5	1832.2	1541.2	1299.9	1051.0	805.4	600.1	401.6	226.0
-25°	2557.7	2317.9	2035.2	1742.1	1474.6	1237.6	995.0	755.6	565.0	369.8	204.2
-27.5°	2454.5	2212.1	1923.9	1643.9	1401.9	1169.5	934.5	712.0	526.2	335.0	180.3
-30°	2338.4	2082.4	1807.9	1543.5	1323.3	1095.8	868.9	665.3	483.4	302.2	154.3
-32.5°	2208.5	1944.1	1685.1	1452.0	1237.6	1016.9	798.6	615.1	437.4	270.1	136.9
-35°	2051.3	1802.0	1557.3	1354.8	1145.7	934.5	729.8	561.6	388.3	235.7	121.8
-37.5°	1886.7	1654.5	1446.5	1251.0	1048.6	847.3	667.0	504.0	336.2	199.3	105.8
-40°	1721.6	1512.9	1330.4	1140.5	948.2	755.6	600.9	442.7	289.6	160.8	88.8
-42.5°	1553.2	1383.2	1207.0	1025.1	843.7	679.2	531.4	378.3	243.9	133.9	71.0
-45°	1409.7	1247.3	1077.9	907.4	738.7	600.1	457.3	313.2	196.2	112.5	57.9
-47.5°	1260.8	1104.5	946.0	785.6	649.5	517.4	380.3	257.9	147.1	90.3	52.3
-50°	1104.5	958.9	811.1	679.4	557.3	430.2	304.8	200.6	121.1	67.2	46.4
-52.5°	946.0	811.1	689.5	577.2	460.4	340.3	239.6	144.5	94.2	55.3	40.3
-55°	785.6	679.4	577.2	470.5	360.4	263.2	172.5	113.7	66.5	48.1	34.4
-57.5°	649.5	557.3	460.4	360.4	271.1	188.2	125.5	82.1	53.7	40.7	31.1
-60°	517.4	430.2	340.3	263.2	188.2	129.4	89.9	57.1	45.2	33.9	27.8
-62.5°	380.3	304.8	239.6	172.5	125.5	89.9	58.3	47.5	36.5	30.0	24.4
-65°	257.9	200.6	144.5	113.7	82.1	57.1	47.5	37.6	31.2	26.1	21.2
-67.5°	147.1	121.1	94.2	66.5	53.7	45.2	36.5	31.2	26.6	22.0	18.7
-70°	90.3	67.2	55.3	48.1	40.7	33.9	30.0	26.1	22.0	19.1	16.1
-72.5°	52.3	46.4	40.3	34.4	31.1	27.8	24.4	21.2	18.7	16.1	13.5
-75°	35.4	32.5	29.9	27.2	24.4	21.7	19.6	17.5	15.3	13.1	11.6
-77.5°	26.5	24.4	22.3	20.6	18.9	17.2	15.5	13.7	12.3	11.1	10.0
-80°	19.1	17.9	16.7	15.4	14.1	12.8	11.9	11.1	10.2	9.3	8.4
-82.5°	13.0	12.4	11.8	11.2	10.6	10.0	9.4	8.8	8.1	7.4	6.6
-85°	9.2	8.9	8.5	8.1	7.7	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



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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	2.5	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°	8.9	7.7	6.3	4.7	3.2	1.6	0.0
75°	10.3	8.9	7.5	5.7	3.8	1.9	0.0
72.5°	11.6	10.0	8.4	6.6	4.4	2.2	0.0
70°	13.1	11.1	9.3	7.4	5.0	2.5	0.0
67.5°	15.3	12.3	10.2	8.1	5.6	2.8	0.0
65°	17.5	13.7	11.1	8.8	6.2	3.1	0.0
62.5°	19.6	15.5	11.9	9.4	6.7	3.4	0.0
60°	21.7	17.2	12.8	10.0	7.3	3.6	0.0
57.5°	24.4	18.9	14.1	10.6	7.7	3.9	0.0
55°	27.2	20.6	15.4	11.2	8.1	4.2	0.0
52.5°	29.9	22.3	16.7	11.8	8.5	4.4	0.0
50°	32.5	24.4	17.9	12.4	8.9	4.7	0.0
47.5°	35.4	26.5	19.1	13.0	9.2	4.9	0.0
45°	40.3	28.6	20.3	13.9	9.6	5.2	0.0
42.5°	44.9	30.5	21.4	14.7	9.9	5.4	0.0
40°	49.3	32.4	22.6	15.5	10.2	5.6	0.0
37.5°	53.6	34.1	24.0	16.2	10.5	5.8	0.0
35°	57.6	36.9	25.4	16.9	10.8	6.0	0.0
32.5°	64.0	40.0	26.6	17.6	11.1	6.2	0.0
30°	76.0	42.9	27.8	18.2	11.3	6.3	0.0
27.5°	87.2	45.6	28.9	18.8	11.6	6.5	0.0
25°	97.5	48.1	29.9	19.3	11.8	6.6	0.0
22.5°	106.9	50.4	30.8	19.8	12.0	6.7	0.0
20°	115.4	52.4	31.6	20.2	12.1	6.9	0.0
17.5°	122.9	54.2	32.3	20.6	12.3	7.0	0.0
15°	129.4	55.8	32.9	21.0	12.4	7.1	0.0
12.5°	135.0	57.1	33.5	21.2	12.5	7.1	0.0
10°	139.5	58.2	33.9	21.5	12.6	7.2	0.0
7.5°	143.1	59.1	34.3	21.7	12.7	7.2	0.0
5°	145.7	59.7	34.5	21.8	12.8	7.3	0.0
2.5°	147.2	60.1	34.7	21.9	12.8	7.3	0.0
0°	147.7	60.2	34.7	21.9	12.8	7.3	0.0
-2.5°	147.2	60.1	34.7	21.9	12.8	7.3	0.0
-5°	145.7	59.7	34.5	21.8	12.8	7.3	0.0
-7.5°	143.1	59.1	34.3	21.7	12.7	7.2	0.0
-10°	139.5	58.2	33.9	21.5	12.6	7.2	0.0
-12.5°	135.0	57.1	33.5	21.2	12.5	7.1	0.0
-15°	129.4	55.8	32.9	21.0	12.4	7.1	0.0
-17.5°	122.9	54.2	32.3	20.6	12.3	7.0	0.0
-20°	115.4	52.4	31.6	20.2	12.1	6.9	0.0



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 CATALOG NUMBER: EPH-LS-08-0680N-57-70-3S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	106.9	50.4	30.8	19.8	12.0	6.7	0.0
-25°	97.5	48.1	29.9	19.3	11.8	6.6	0.0
-27.5°	87.2	45.6	28.9	18.8	11.6	6.5	0.0
-30°	76.0	42.9	27.8	18.2	11.3	6.3	0.0
-32.5°	64.0	40.0	26.6	17.6	11.1	6.2	0.0
-35°	57.6	36.9	25.4	16.9	10.8	6.0	0.0
-37.5°	53.6	34.1	24.0	16.2	10.5	5.8	0.0
-40°	49.3	32.4	22.6	15.5	10.2	5.6	0.0
-42.5°	44.9	30.5	21.4	14.7	9.9	5.4	0.0
-45°	40.3	28.6	20.3	13.9	9.6	5.2	0.0
-47.5°	35.4	26.5	19.1	13.0	9.2	4.9	0.0
-50°	32.5	24.4	17.9	12.4	8.9	4.7	0.0
-52.5°	29.9	22.3	16.7	11.8	8.5	4.4	0.0
-55°	27.2	20.6	15.4	11.2	8.1	4.2	0.0
-57.5°	24.4	18.9	14.1	10.6	7.7	3.9	0.0
-60°	21.7	17.2	12.8	10.0	7.3	3.6	0.0
-62.5°	19.6	15.5	11.9	9.4	6.7	3.4	0.0
-65°	17.5	13.7	11.1	8.8	6.2	3.1	0.0
-67.5°	15.3	12.3	10.2	8.1	5.6	2.8	0.0
-70°	13.1	11.1	9.3	7.4	5.0	2.5	0.0
-72.5°	11.6	10.0	8.4	6.6	4.4	2.2	0.0
-75°	10.3	8.9	7.5	5.7	3.8	1.9	0.0
-77.5°	8.9	7.7	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

