

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: P731273 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-70-4S-HEG**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731273 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-08-0680N-40-70-4S-HEG
Description: EPHEBUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 4S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

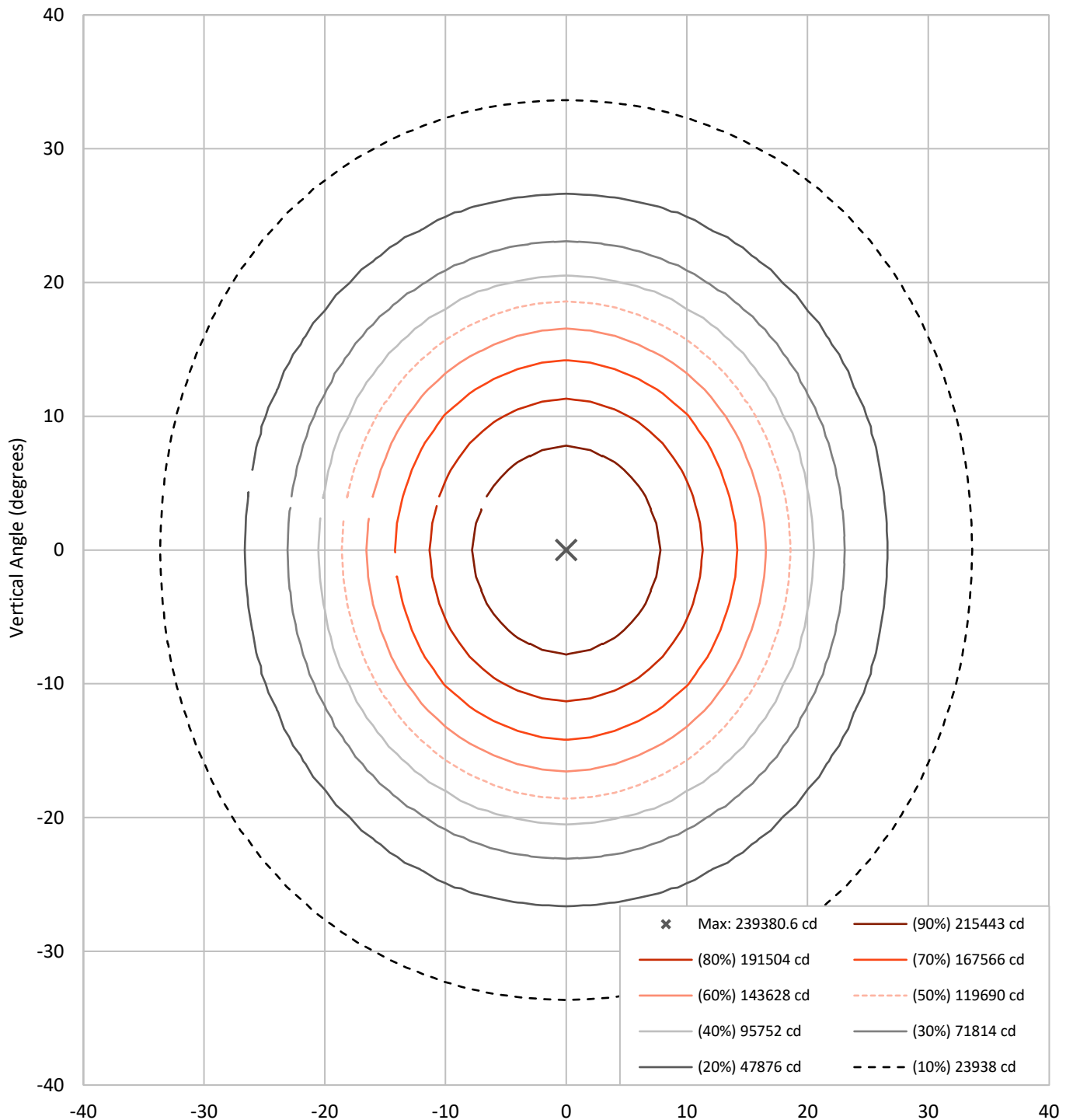
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	110548.2 lumens	Max Intensity:	239380.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	158.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	37.2°H x 37.2°V	Field Angle (10%):	67.2°H x 67.2°V
Beam Lumens:	57550.4 lumens	Field Lumens:	96675 lumens
Beam Efficiency:	52.1%	Field Efficiency:	87.5%

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





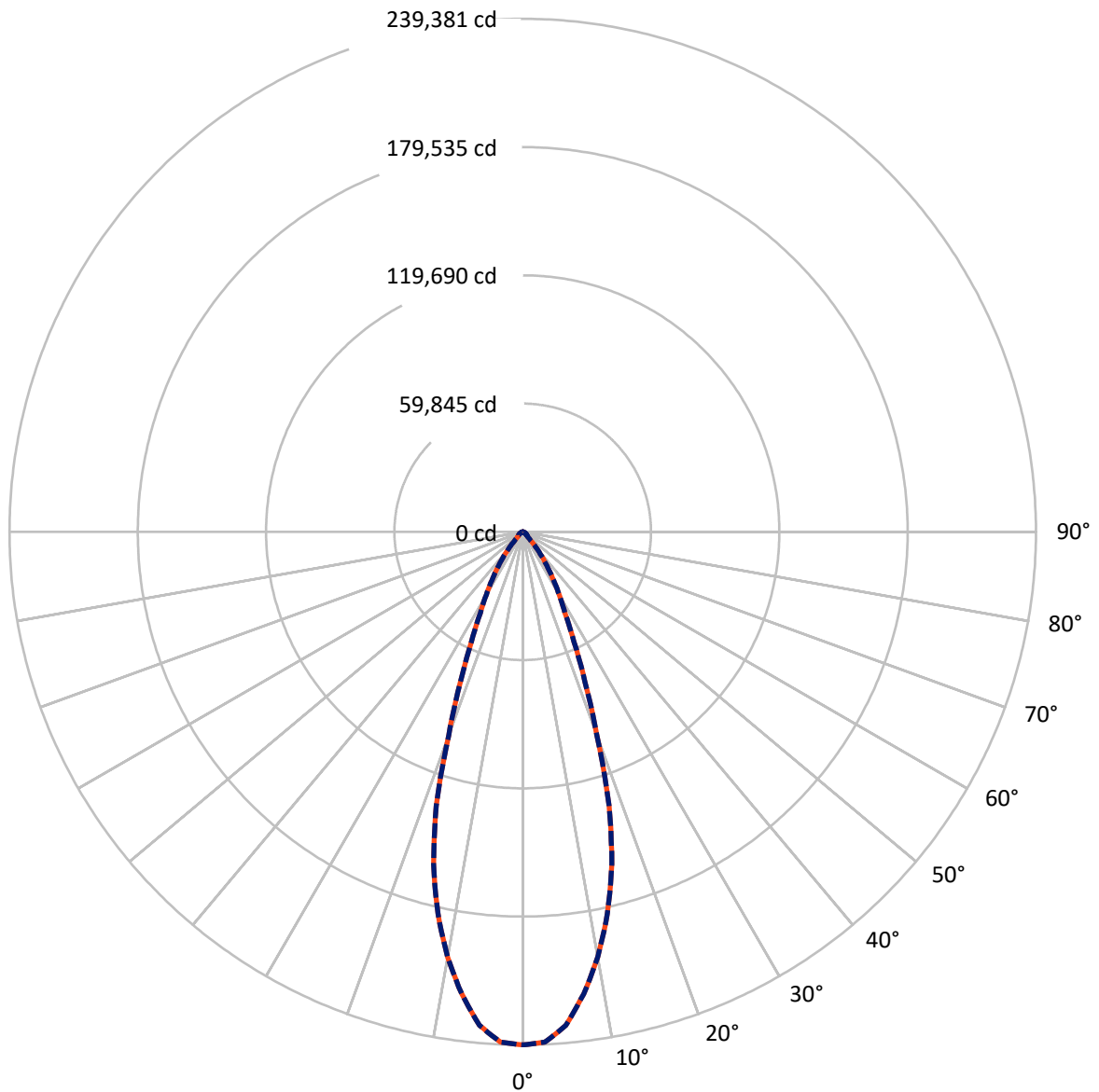
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Lumen Table

90															90				
80	0.1	0.8		3.3		7.9		10.2		7.9		3.3		0.8		0.1			
70															70				
60	0.4	0.5	2.0	5.5	11.5	18.7	25.0	28.5	28.5	25.0	18.7	11.5	5.5	2.0	0.5	0.4			
		1.5	6.5	17.8	32.7	45.9	55.6	61.0	61.0	55.6	45.9	32.7	17.8	6.5	1.5				
50															50				
40	1.1	3.4	14.5	33.1	51.5	71.5	102.7	135.5	135.5	102.7	71.5	51.5	33.1	14.5	3.4	1.1			
		6.1	23.1	44.6	77.3	208.0	440.0	610.4	610.4	440.0	208.0	77.3	44.6	23.1	6.1				
30															30				
20	2.3	9.0	29.3	56.0	189.3	591.6	1156.9	1720.4	1720.4	1156.9	591.6	189.3	56.0	29.3	9.0	2.3			
		11.3	33.3	76.1	376.9	1089.4	2697.8	4428.6	4428.6	2697.8	1089.4	376.9	76.1	33.3	11.3				
10															10				
0	2.8	12.5	35.5	98.0	507.2	1575.2	4303.4	6482.3	6482.3	4303.4	1575.2	507.2	98.0	35.5	12.5	2.8			
		12.5	35.5	98.0	507.2	1575.2	4303.4	6482.3	6482.3	4303.4	1575.2	507.2	98.0	35.5	12.5				
-10															-10				
-20	2.3	11.3	33.3	76.1	376.9	1089.4	2697.8	4428.6	4428.6	2697.8	1089.4	376.9	76.1	33.3	11.3	2.3			
		9.0	29.3	56.0	189.3	591.6	1156.9	1720.4	1720.4	1156.9	591.6	189.3	56.0	29.3	9.0				
-30															-30				
-40	1.1	6.1	23.1	44.6	77.3	208.0	440.0	610.4	610.4	440.0	208.0	77.3	44.6	23.1	6.1	1.1			
		3.4	14.5	33.1	51.5	71.5	102.7	135.5	135.5	102.7	71.5	51.5	33.1	14.5	3.4				
-50															-50				
-60	0.4	1.5	6.5	17.8	32.7	45.9	55.6	61.0	61.0	55.6	45.9	32.7	17.8	6.5	1.5	0.4			
		0.5	2.0	5.5	11.5	18.7	25.0	28.5	28.5	25.0	18.7	11.5	5.5	2.0	0.5				
-70															-70				
-80	0.1	0.8		3.3		7.9		10.2		7.9		3.3		0.8		0.1			
-90															-90				
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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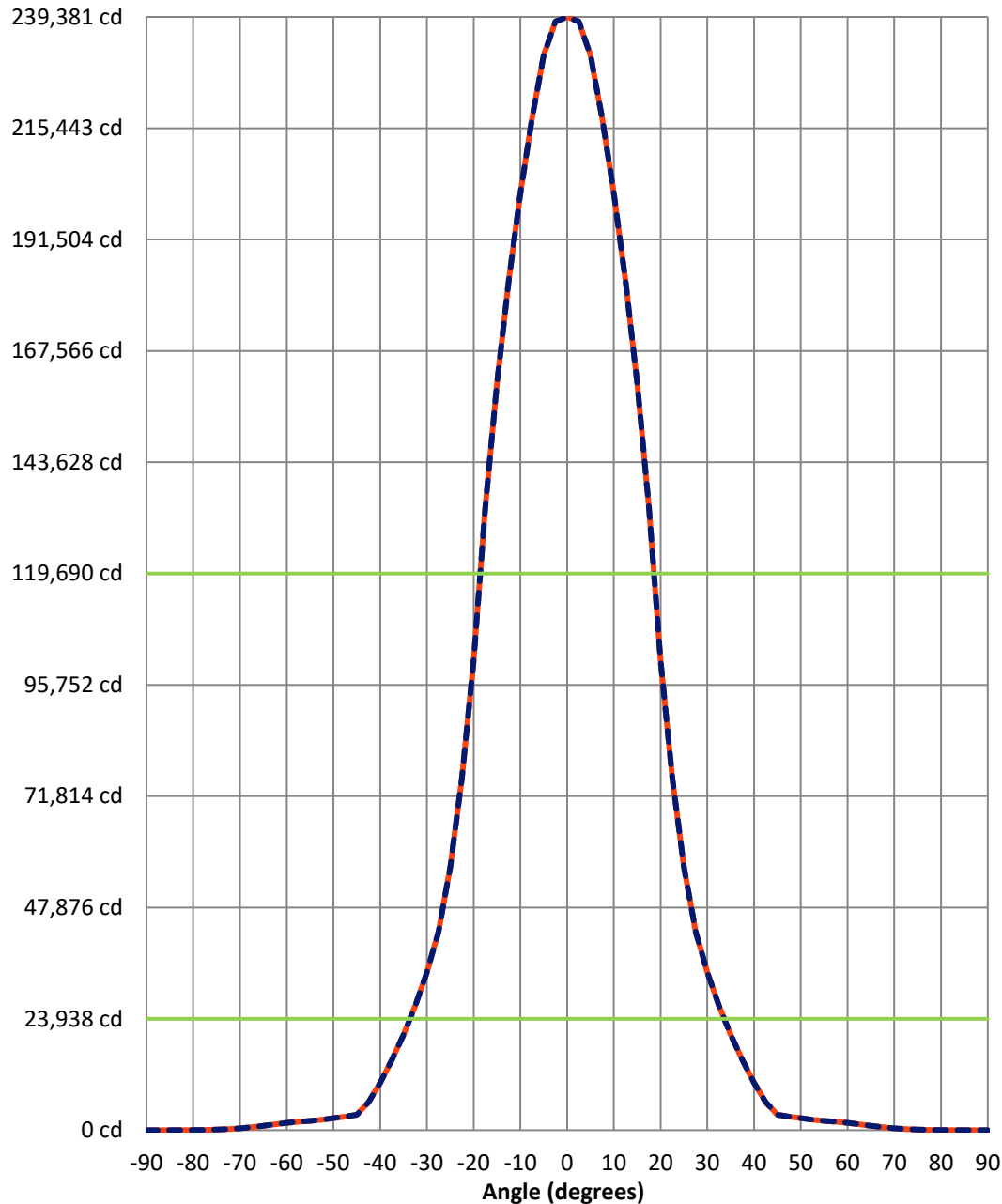
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 37.2°
 V Angle: 37.2°
 Lumens: 57550.4
 Efficiency: 52.1%

Field:
 H Angle: 67.2°
 V Angle: 67.2°
 Lumens: 96675
 Efficiency: 87.5%

Spill:
 Lumens: 13873.1
 Efficiency: 12.5%

- 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	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.3
85°	0.0	0.5	1.0	1.4	1.9	2.4	2.8	3.3	3.8	4.2	4.6
82.5°	0.0	0.7	1.4	2.1	2.9	3.6	4.3	4.9	5.6	6.3	7.0
80°	0.0	1.0	1.9	2.9	3.8	4.7	5.7	6.6	7.5	8.4	9.3
77.5°	0.0	1.2	2.4	3.6	4.7	5.9	7.1	8.2	9.3	10.5	11.9
75°	0.0	1.4	2.8	4.3	5.7	7.1	8.5	9.8	11.3	13.5	15.7
72.5°	0.0	1.7	3.3	4.9	6.6	8.2	9.8	11.7	14.3	16.9	19.5
70°	0.0	1.9	3.8	5.6	7.5	9.3	11.3	14.3	17.3	20.3	23.2
67.5°	0.0	2.1	4.2	6.3	8.4	10.5	13.5	16.9	20.3	23.6	26.9
65°	0.0	2.3	4.6	7.0	9.3	11.9	15.7	19.5	23.2	26.9	32.8
62.5°	0.0	2.5	5.1	7.6	10.1	13.7	17.9	22.0	26.0	31.5	44.2
60°	0.0	2.7	5.5	8.2	11.0	15.5	20.0	24.4	28.8	41.6	55.3
57.5°	0.0	3.0	5.9	8.8	12.3	17.2	22.0	26.8	36.4	51.4	76.8
55°	0.0	3.2	6.3	9.4	13.6	18.8	24.0	29.1	44.9	64.1	102.8
52.5°	0.0	3.3	6.7	10.0	14.9	20.5	26.0	35.9	53.2	86.8	128.1
50°	0.0	3.5	7.1	10.6	16.2	22.0	27.8	42.9	64.6	108.9	161.0
47.5°	0.0	3.7	7.4	11.2	17.4	23.5	30.2	49.7	83.6	130.2	193.8
45°	0.0	3.9	7.8	12.1	18.6	25.0	35.8	56.3	101.8	158.5	225.5
42.5°	0.0	4.1	8.1	12.9	19.7	26.4	41.2	67.8	119.4	185.8	274.3
40°	0.0	4.2	8.4	13.7	20.7	27.7	46.3	82.4	138.2	212.0	324.1
37.5°	0.0	4.4	8.7	14.5	21.7	29.0	51.2	96.3	160.3	241.8	371.5
35°	0.0	4.5	9.0	15.2	22.7	31.9	55.8	109.4	181.2	282.1	424.0
32.5°	0.0	4.6	9.3	15.9	23.6	35.5	62.0	121.8	200.8	320.0	484.9
30°	0.0	4.8	9.5	16.5	24.4	38.9	71.9	134.5	219.3	355.6	542.0
27.5°	0.0	4.9	9.8	17.1	25.2	42.0	81.1	149.4	240.9	388.7	595.2
25°	0.0	5.0	10.0	17.6	25.9	44.9	89.5	163.1	267.8	427.8	644.7
22.5°	0.0	5.1	10.2	18.1	26.6	47.5	97.2	175.6	292.3	467.8	698.7
20°	0.0	5.2	10.3	18.5	27.2	49.9	104.2	186.9	314.5	503.8	747.5
17.5°	0.0	5.2	10.5	18.9	27.7	52.0	110.3	196.9	334.1	535.9	790.8
15°	0.0	5.3	10.6	19.3	28.1	53.8	115.7	205.6	351.3	563.9	828.7
12.5°	0.0	5.4	10.7	19.5	28.5	55.3	120.3	213.0	365.9	587.7	860.9
10°	0.0	5.4	10.8	19.8	28.8	56.6	124.0	219.1	377.9	607.2	887.5
7.5°	0.0	5.5	10.9	20.0	29.1	57.6	126.9	223.9	387.2	622.5	908.2
5°	0.0	5.5	11.0	20.1	29.3	58.3	129.0	227.3	393.9	633.4	923.0
2.5°	0.0	5.5	11.0	20.2	29.4	58.8	130.3	229.3	398.0	640.0	931.9
0°	0.0	5.5	11.0	20.2	29.4	58.8	130.3	229.3	398.0	640.0	931.9
-2.5°	0.0	5.5	11.0	20.2	29.4	58.8	130.3	229.3	398.0	640.0	931.9
-5°	0.0	5.5	11.0	20.1	29.3	58.3	129.0	227.3	393.9	633.4	923.0
-7.5°	0.0	5.5	10.9	20.0	29.1	57.6	126.9	223.9	387.2	622.5	908.2
-10°	0.0	5.4	10.8	19.8	28.8	56.6	124.0	219.1	377.9	607.2	887.5
-12.5°	0.0	5.4	10.7	19.5	28.5	55.3	120.3	213.0	365.9	587.7	860.9
-15°	0.0	5.3	10.6	19.3	28.1	53.8	115.7	205.6	351.3	563.9	828.7
-17.5°	0.0	5.2	10.5	18.9	27.7	52.0	110.3	196.9	334.1	535.9	790.8
-20°	0.0	5.2	10.3	18.5	27.2	49.9	104.2	186.9	314.5	503.8	747.5



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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	5.1	10.2	18.1	26.6	47.5	97.2	175.6	292.3	467.8	698.7
-25°	0.0	5.0	10.0	17.6	25.9	44.9	89.5	163.1	267.8	427.8	644.7
-27.5°	0.0	4.9	9.8	17.1	25.2	42.0	81.1	149.4	240.9	388.7	595.2
-30°	0.0	4.8	9.5	16.5	24.4	38.9	71.9	134.5	219.3	355.6	542.0
-32.5°	0.0	4.6	9.3	15.9	23.6	35.5	62.0	121.8	200.8	320.0	484.9
-35°	0.0	4.5	9.0	15.2	22.7	31.9	55.8	109.4	181.2	282.1	424.0
-37.5°	0.0	4.4	8.7	14.5	21.7	29.0	51.2	96.3	160.3	241.8	371.5
-40°	0.0	4.2	8.4	13.7	20.7	27.7	46.3	82.4	138.2	212.0	324.1
-42.5°	0.0	4.1	8.1	12.9	19.7	26.4	41.2	67.8	119.4	185.8	274.3
-45°	0.0	3.9	7.8	12.1	18.6	25.0	35.8	56.3	101.8	158.5	225.5
-47.5°	0.0	3.7	7.4	11.2	17.4	23.5	30.2	49.7	83.6	130.2	193.8
-50°	0.0	3.5	7.1	10.6	16.2	22.0	27.8	42.9	64.6	108.9	161.0
-52.5°	0.0	3.3	6.7	10.0	14.9	20.5	26.0	35.9	53.2	86.8	128.1
-55°	0.0	3.2	6.3	9.4	13.6	18.8	24.0	29.1	44.9	64.1	102.8
-57.5°	0.0	3.0	5.9	8.8	12.3	17.2	22.0	26.8	36.4	51.4	76.8
-60°	0.0	2.7	5.5	8.2	11.0	15.5	20.0	24.4	28.8	41.6	55.3
-62.5°	0.0	2.5	5.1	7.6	10.1	13.7	17.9	22.0	26.0	31.5	44.2
-65°	0.0	2.3	4.6	7.0	9.3	11.9	15.7	19.5	23.2	26.9	32.8
-67.5°	0.0	2.1	4.2	6.3	8.4	10.5	13.5	16.9	20.3	23.6	26.9
-70°	0.0	1.9	3.8	5.6	7.5	9.3	11.3	14.3	17.3	20.3	23.2
-72.5°	0.0	1.7	3.3	4.9	6.6	8.2	9.8	11.7	14.3	16.9	19.5
-75°	0.0	1.4	2.8	4.3	5.7	7.1	8.5	9.8	11.3	13.5	15.7
-77.5°	0.0	1.2	2.4	3.6	4.7	5.9	7.1	8.2	9.3	10.5	11.9
-80°	0.0	1.0	1.9	2.9	3.8	4.7	5.7	6.6	7.5	8.4	9.3
-82.5°	0.0	0.7	1.4	2.1	2.9	3.6	4.3	4.9	5.6	6.3	7.0
-85°	0.0	0.5	1.0	1.4	1.9	2.4	2.8	3.3	3.8	4.2	4.6
-87.5°	0.0	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.3
-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°	2.5	2.7	3.0	3.2	3.3	3.5	3.7	3.9	4.1	4.2	4.4
85°	5.1	5.5	5.9	6.3	6.7	7.1	7.4	7.8	8.1	8.4	8.7
82.5°	7.6	8.2	8.8	9.4	10.0	10.6	11.2	12.1	12.9	13.7	14.5
80°	10.1	11.0	12.3	13.6	14.9	16.2	17.4	18.6	19.7	20.7	21.7
77.5°	13.7	15.5	17.2	18.8	20.5	22.0	23.5	25.0	26.4	27.7	29.0
75°	17.9	20.0	22.0	24.0	26.0	27.8	30.2	35.8	41.2	46.3	51.2
72.5°	22.0	24.4	26.8	29.1	35.9	42.9	49.7	56.3	67.8	82.4	96.3
70°	26.0	28.8	36.4	44.9	53.2	64.6	83.6	101.8	119.4	138.2	160.3
67.5°	31.5	41.6	51.4	64.1	86.8	108.9	130.2	158.5	185.8	212.0	241.8
65°	44.2	55.3	76.8	102.8	128.1	161.0	193.8	225.5	274.3	324.1	371.5
62.5°	56.7	83.3	112.5	144.9	183.4	220.7	275.8	335.4	392.8	468.8	544.0
60°	83.3	115.7	153.9	196.9	245.0	314.5	381.9	467.8	557.8	644.7	744.1
57.5°	112.5	153.9	201.4	260.5	337.8	419.2	524.1	625.6	740.2	853.5	965.0
55°	144.9	196.9	260.5	345.6	441.7	558.1	677.2	809.3	937.1	1073.6	1204.3
52.5°	183.4	245.0	337.8	441.7	569.5	704.9	851.2	999.6	1152.3	1297.7	1433.2
50°	220.7	314.5	419.2	558.1	704.9	865.2	1031.1	1199.9	1359.3	1510.7	1636.7
47.5°	275.8	381.9	524.1	677.2	851.2	1031.1	1215.8	1390.3	1557.7	1685.1	1804.1
45°	335.4	467.8	625.6	809.3	999.6	1199.9	1390.3	1573.4	1709.5	1834.8	1933.4
42.5°	392.8	557.8	740.2	937.1	1152.3	1359.3	1557.7	1709.5	1844.5	1953.0	2077.2
40°	468.8	644.7	853.5	1073.6	1297.7	1510.7	1685.1	1834.8	1953.0	2090.4	2237.9
37.5°	544.0	744.1	965.0	1204.3	1433.2	1636.7	1804.1	1933.4	2077.2	2237.9	2454.7
35°	615.5	838.7	1079.8	1326.2	1562.4	1743.0	1894.6	2037.6	2210.8	2435.2	2659.1
32.5°	691.3	928.1	1188.5	1439.6	1658.8	1837.1	1978.8	2157.3	2377.1	2623.5	2841.5
30°	767.6	1020.7	1289.5	1546.4	1747.3	1911.2	2078.3	2281.4	2548.4	2787.1	3057.3
27.5°	838.7	1107.9	1381.1	1629.1	1826.2	1980.8	2177.7	2432.2	2697.6	2955.8	3284.0
25°	904.3	1188.5	1465.9	1699.9	1885.9	2060.7	2280.6	2572.8	2832.8	3154.8	4372.5
22.5°	967.7	1262.1	1543.6	1764.8	1940.8	2139.7	2401.0	2691.1	2978.0	3385.2	5614.8
20°	1028.1	1326.2	1604.5	1821.2	1990.6	2211.4	2510.6	2797.1	3135.0	4445.2	7177.5
17.5°	1081.9	1383.3	1652.5	1862.0	2047.0	2288.2	2607.2	2892.2	3276.3	5401.4	8788.9
15°	1128.8	1433.2	1694.5	1897.7	2098.8	2367.6	2684.4	3002.9	3770.0	6382.7	10225.1
12.5°	1168.8	1475.7	1730.3	1928.2	2143.0	2435.6	2750.6	3101.6	4441.2	7519.3	11681.1
10°	1201.7	1510.7	1759.8	1953.4	2179.5	2491.8	2805.3	3183.3	4997.8	8463.7	12893.5
7.5°	1227.4	1538.0	1782.9	1973.0	2208.1	2535.9	2848.2	3247.5	5435.5	9207.6	13850.4
5°	1245.8	1557.7	1799.4	1987.2	2228.6	2567.5	2879.1	3293.7	5750.9	9744.2	14541.6
2.5°	1256.9	1569.5	1809.4	1995.7	2241.0	2586.5	2897.7	3321.6	5941.2	10068.2	14959.5
0°	1260.6	1573.4	1812.7	1998.5	2245.1	2592.9	2903.9	3330.9	6004.8	10176.6	15099.3
-2.5°	1256.9	1569.5	1809.4	1995.7	2241.0	2586.5	2897.7	3321.6	5941.2	10068.2	14959.5
-5°	1245.8	1557.7	1799.4	1987.2	2228.6	2567.5	2879.1	3293.7	5750.9	9744.2	14541.6
-7.5°	1227.4	1538.0	1782.9	1973.0	2208.1	2535.9	2848.2	3247.5	5435.5	9207.6	13850.4
-10°	1201.7	1510.7	1759.8	1953.4	2179.5	2491.8	2805.3	3183.3	4997.8	8463.7	12893.5
-12.5°	1168.8	1475.7	1730.3	1928.2	2143.0	2435.6	2750.6	3101.6	4441.2	7519.3	11681.1
-15°	1128.8	1433.2	1694.5	1897.7	2098.8	2367.6	2684.4	3002.9	3770.0	6382.7	10225.1
-17.5°	1081.9	1383.3	1652.5	1862.0	2047.0	2288.2	2607.2	2892.2	3276.3	5401.4	8788.9
-20°	1028.1	1326.2	1604.5	1821.2	1990.6	2211.4	2510.6	2797.1	3135.0	4445.2	7177.5



REPORT NUMBER: P731273 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-4S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	967.7	1262.1	1543.6	1764.8	1940.8	2139.7	2401.0	2691.1	2978.0	3385.2	5614.8
-25°	904.3	1188.5	1465.9	1699.9	1885.9	2060.7	2280.6	2572.8	2832.8	3154.8	4372.5
-27.5°	838.7	1107.9	1381.1	1629.1	1826.2	1980.8	2177.7	2432.2	2697.6	2955.8	3284.0
-30°	767.6	1020.7	1289.5	1546.4	1747.3	1911.2	2078.3	2281.4	2548.4	2787.1	3057.3
-32.5°	691.3	928.1	1188.5	1439.6	1658.8	1837.1	1978.8	2157.3	2377.1	2623.5	2841.5
-35°	615.5	838.7	1079.8	1326.2	1562.4	1743.0	1894.6	2037.6	2210.8	2435.2	2659.1
-37.5°	544.0	744.1	965.0	1204.3	1433.2	1636.7	1804.1	1933.4	2077.2	2237.9	2454.7
-40°	468.8	644.7	853.5	1073.6	1297.7	1510.7	1685.1	1834.8	1953.0	2090.4	2237.9
-42.5°	392.8	557.8	740.2	937.1	1152.3	1359.3	1557.7	1709.5	1844.5	1953.0	2077.2
-45°	335.4	467.8	625.6	809.3	999.6	1199.9	1390.3	1573.4	1709.5	1834.8	1933.4
-47.5°	275.8	381.9	524.1	677.2	851.2	1031.1	1215.8	1390.3	1557.7	1685.1	1804.1
-50°	220.7	314.5	419.2	558.1	704.9	865.2	1031.1	1199.9	1359.3	1510.7	1636.7
-52.5°	183.4	245.0	337.8	441.7	569.5	704.9	851.2	999.6	1152.3	1297.7	1433.2
-55°	144.9	196.9	260.5	345.6	441.7	558.1	677.2	809.3	937.1	1073.6	1204.3
-57.5°	112.5	153.9	201.4	260.5	337.8	419.2	524.1	625.6	740.2	853.5	965.0
-60°	83.3	115.7	153.9	196.9	245.0	314.5	381.9	467.8	557.8	644.7	744.1
-62.5°	56.7	83.3	112.5	144.9	183.4	220.7	275.8	335.4	392.8	468.8	544.0
-65°	44.2	55.3	76.8	102.8	128.1	161.0	193.8	225.5	274.3	324.1	371.5
-67.5°	31.5	41.6	51.4	64.1	86.8	108.9	130.2	158.5	185.8	212.0	241.8
-70°	26.0	28.8	36.4	44.9	53.2	64.6	83.6	101.8	119.4	138.2	160.3
-72.5°	22.0	24.4	26.8	29.1	35.9	42.9	49.7	56.3	67.8	82.4	96.3
-75°	17.9	20.0	22.0	24.0	26.0	27.8	30.2	35.8	41.2	46.3	51.2
-77.5°	13.7	15.5	17.2	18.8	20.5	22.0	23.5	25.0	26.4	27.7	29.0
-80°	10.1	11.0	12.3	13.6	14.9	16.2	17.4	18.6	19.7	20.7	21.7
-82.5°	7.6	8.2	8.8	9.4	10.0	10.6	11.2	12.1	12.9	13.7	14.5
-85°	5.1	5.5	5.9	6.3	6.7	7.1	7.4	7.8	8.1	8.4	8.7
-87.5°	2.5	2.7	3.0	3.2	3.3	3.5	3.7	3.9	4.1	4.2	4.4
-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: P731273 (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°	4.5	4.6	4.8	4.9	5.0	5.1	5.2	5.2	5.3	5.4	5.4
85°	9.0	9.3	9.5	9.8	10.0	10.2	10.3	10.5	10.6	10.7	10.8
82.5°	15.2	15.9	16.5	17.1	17.6	18.1	18.5	18.9	19.3	19.5	19.8
80°	22.7	23.6	24.4	25.2	25.9	26.6	27.2	27.7	28.1	28.5	28.8
77.5°	31.9	35.5	38.9	42.0	44.9	47.5	49.9	52.0	53.8	55.3	56.6
75°	55.8	62.0	71.9	81.1	89.5	97.2	104.2	110.3	115.7	120.3	124.0
72.5°	109.4	121.8	134.5	149.4	163.1	175.6	186.9	196.9	205.6	213.0	219.1
70°	181.2	200.8	219.3	240.9	267.8	292.3	314.5	334.1	351.3	365.9	377.9
67.5°	282.1	320.0	355.6	388.7	427.8	467.8	503.8	535.9	563.9	587.7	607.2
65°	424.0	484.9	542.0	595.2	644.7	698.7	747.5	790.8	828.7	860.9	887.5
62.5°	615.5	691.3	767.6	838.7	904.3	967.7	1028.1	1081.9	1128.8	1168.8	1201.7
60°	838.7	928.1	1020.7	1107.9	1188.5	1262.1	1326.2	1383.3	1433.2	1475.7	1510.7
57.5°	1079.8	1188.5	1289.5	1381.1	1465.9	1543.6	1604.5	1652.5	1694.5	1730.3	1759.8
55°	1326.2	1439.6	1546.4	1629.1	1699.9	1764.8	1821.2	1862.0	1897.7	1928.2	1953.4
52.5°	1562.4	1658.8	1747.3	1826.2	1885.9	1940.8	1990.6	2047.0	2098.8	2143.0	2179.5
50°	1743.0	1837.1	1911.2	1980.8	2060.7	2139.7	2211.4	2288.2	2367.6	2435.6	2491.8
47.5°	1894.6	1978.8	2078.3	2177.7	2280.6	2401.0	2510.6	2607.2	2684.4	2750.6	2805.3
45°	2037.6	2157.3	2281.4	2432.2	2572.8	2691.1	2797.1	2892.2	3002.9	3101.6	3183.3
42.5°	2210.8	2377.1	2548.4	2697.6	2832.8	2978.0	3135.0	3276.3	3770.0	4441.2	4997.8
40°	2435.2	2623.5	2787.1	2955.8	3154.8	3385.2	4445.2	5401.4	6382.7	7519.3	8463.7
37.5°	2659.1	2841.5	3057.3	3284.0	4372.5	5614.8	7177.5	8788.9	10225.1	11681.1	12893.5
35°	2859.7	3108.6	3530.5	5044.2	6733.4	8812.8	10829.4	12882.5	14708.5	16410.8	17865.2
32.5°	3108.6	3696.2	5384.2	7549.8	9928.3	12513.2	14946.6	17372.3	19551.6	21580.2	23397.2
30°	3530.5	5384.2	7824.3	10551.1	13543.9	16487.1	19368.4	22220.0	24926.7	27380.3	29690.5
27.5°	5044.2	7549.8	10551.1	13891.0	17277.9	20604.9	24151.2	27523.0	30940.2	33937.6	37022.6
25°	6733.4	9928.3	13543.9	17277.9	21078.4	25135.5	29305.3	33401.6	37809.3	41805.3	46592.8
22.5°	8812.8	12513.2	16487.1	20604.9	25135.5	29907.9	34816.8	40212.4	46494.6	53366.6	60296.6
20°	10829.4	14946.6	19368.4	24151.2	29305.3	34816.8	41027.5	49185.3	58004.2	68510.7	78140.8
17.5°	12882.5	17372.3	22220.0	27523.0	33401.6	40212.4	49185.3	60012.4	72769.3	86992.2	100247.8
15°	14708.5	19551.6	24926.7	30940.2	37809.3	46494.6	58004.2	72769.3	90028.2	108502.0	127871.1
12.5°	16410.8	21580.2	27380.3	33937.6	41805.3	53366.6	68510.7	86992.2	108502.0	132575.4	150388.0
10°	17865.2	23397.2	29690.5	37022.6	46592.8	60296.6	78140.8	100247.8	127871.1	150388.0	168740.2
7.5°	19015.6	24838.4	31529.2	39490.5	50874.4	66919.5	87855.1	114304.2	142155.1	164717.2	182761.1
5°	19848.1	25883.7	32866.3	41291.5	54012.8	71802.1	95072.2	125038.4	152139.8	174543.8	192760.9
2.5°	20352.0	26517.4	33678.5	42388.2	55930.0	74797.5	99525.6	131716.4	158426.5	180573.6	199166.2
0°	20520.7	26729.7	33950.9	42756.5	56575.0	75807.5	101031.9	133985.4	160577.1	182572.9	201430.8
-2.5°	20352.0	26517.4	33678.5	42388.2	55930.0	74797.5	99525.6	131716.4	158426.5	180573.6	199166.2
-5°	19848.1	25883.7	32866.3	41291.5	54012.8	71802.1	95072.2	125038.4	152139.8	174543.8	192760.9
-7.5°	19015.6	24838.4	31529.2	39490.5	50874.4	66919.5	87855.1	114304.2	142155.1	164717.2	182761.1
-10°	17865.2	23397.2	29690.5	37022.6	46592.8	60296.6	78140.8	100247.8	127871.1	150388.0	168740.2
-12.5°	16410.8	21580.2	27380.3	33937.6	41805.3	53366.6	68510.7	86992.2	108502.0	132575.4	150388.0
-15°	14708.5	19551.6	24926.7	30940.2	37809.3	46494.6	58004.2	72769.3	90028.2	108502.0	127871.1
-17.5°	12882.5	17372.3	22220.0	27523.0	33401.6	40212.4	49185.3	60012.4	72769.3	86992.2	100247.8
-20°	10829.4	14946.6	19368.4	24151.2	29305.3	34816.8	41027.5	49185.3	58004.2	68510.7	78140.8



REPORT NUMBER: P731273 (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°
-22.5°	8812.8	12513.2	16487.1	20604.9	25135.5	29907.9	34816.8	40212.4	46494.6	53366.6	60296.6
-25°	6733.4	9928.3	13543.9	17277.9	21078.4	25135.5	29305.3	33401.6	37809.3	41805.3	46592.8
-27.5°	5044.2	7549.8	10551.1	13891.0	17277.9	20604.9	24151.2	27523.0	30940.2	33937.6	37022.6
-30°	3530.5	5384.2	7824.3	10551.1	13543.9	16487.1	19368.4	22220.0	24926.7	27380.3	29690.5
-32.5°	3108.6	3696.2	5384.2	7549.8	9928.3	12513.2	14946.6	17372.3	19551.6	21580.2	23397.2
-35°	2859.7	3108.6	3530.5	5044.2	6733.4	8812.8	10829.4	12882.5	14708.5	16410.8	17865.2
-37.5°	2659.1	2841.5	3057.3	3284.0	4372.5	5614.8	7177.5	8788.9	10225.1	11681.1	12893.5
-40°	2435.2	2623.5	2787.1	2955.8	3154.8	3385.2	4445.2	5401.4	6382.7	7519.3	8463.7
-42.5°	2210.8	2377.1	2548.4	2697.6	2832.8	2978.0	3135.0	3276.3	3770.0	4441.2	4997.8
-45°	2037.6	2157.3	2281.4	2432.2	2572.8	2691.1	2797.1	2892.2	3002.9	3101.6	3183.3
-47.5°	1894.6	1978.8	2078.3	2177.7	2280.6	2401.0	2510.6	2607.2	2684.4	2750.6	2805.3
-50°	1743.0	1837.1	1911.2	1980.8	2060.7	2139.7	2211.4	2288.2	2367.6	2435.6	2491.8
-52.5°	1562.4	1658.8	1747.3	1826.2	1885.9	1940.8	1990.6	2047.0	2098.8	2143.0	2179.5
-55°	1326.2	1439.6	1546.4	1629.1	1699.9	1764.8	1821.2	1862.0	1897.7	1928.2	1953.4
-57.5°	1079.8	1188.5	1289.5	1381.1	1465.9	1543.6	1604.5	1652.5	1694.5	1730.3	1759.8
-60°	838.7	928.1	1020.7	1107.9	1188.5	1262.1	1326.2	1383.3	1433.2	1475.7	1510.7
-62.5°	615.5	691.3	767.6	838.7	904.3	967.7	1028.1	1081.9	1128.8	1168.8	1201.7
-65°	424.0	484.9	542.0	595.2	644.7	698.7	747.5	790.8	828.7	860.9	887.5
-67.5°	282.1	320.0	355.6	388.7	427.8	467.8	503.8	535.9	563.9	587.7	607.2
-70°	181.2	200.8	219.3	240.9	267.8	292.3	314.5	334.1	351.3	365.9	377.9
-72.5°	109.4	121.8	134.5	149.4	163.1	175.6	186.9	196.9	205.6	213.0	219.1
-75°	55.8	62.0	71.9	81.1	89.5	97.2	104.2	110.3	115.7	120.3	124.0
-77.5°	31.9	35.5	38.9	42.0	44.9	47.5	49.9	52.0	53.8	55.3	56.6
-80°	22.7	23.6	24.4	25.2	25.9	26.6	27.2	27.7	28.1	28.5	28.8
-82.5°	15.2	15.9	16.5	17.1	17.6	18.1	18.5	18.9	19.3	19.5	19.8
-85°	9.0	9.3	9.5	9.8	10.0	10.2	10.3	10.5	10.6	10.7	10.8
-87.5°	4.5	4.6	4.8	4.9	5.0	5.1	5.2	5.2	5.3	5.4	5.4
-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: P731273 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-4S-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°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.4	5.4	5.3	5.2
85°	10.9	11.0	11.0	11.0	11.0	11.0	10.9	10.8	10.7	10.6	10.5
82.5°	20.0	20.1	20.2	20.2	20.2	20.1	20.0	19.8	19.5	19.3	18.9
80°	29.1	29.3	29.4	29.4	29.4	29.3	29.1	28.8	28.5	28.1	27.7
77.5°	57.6	58.3	58.8	58.9	58.8	58.3	57.6	56.6	55.3	53.8	52.0
75°	126.9	129.0	130.3	130.7	130.3	129.0	126.9	124.0	120.3	115.7	110.3
72.5°	223.9	227.3	229.3	230.0	229.3	227.3	223.9	219.1	213.0	205.6	196.9
70°	387.2	393.9	398.0	399.3	398.0	393.9	387.2	377.9	365.9	351.3	334.1
67.5°	622.5	633.4	640.0	642.2	640.0	633.4	622.5	607.2	587.7	563.9	535.9
65°	908.2	923.0	931.9	934.9	931.9	923.0	908.2	887.5	860.9	828.7	790.8
62.5°	1227.4	1245.8	1256.9	1260.6	1256.9	1245.8	1227.4	1201.7	1168.8	1128.8	1081.9
60°	1538.0	1557.7	1569.5	1573.4	1569.5	1557.7	1538.0	1510.7	1475.7	1433.2	1383.3
57.5°	1782.9	1799.4	1809.4	1812.7	1809.4	1799.4	1782.9	1759.8	1730.3	1694.5	1652.5
55°	1973.0	1987.2	1995.7	1998.5	1995.7	1987.2	1973.0	1953.4	1928.2	1897.7	1862.0
52.5°	2208.1	2228.6	2241.0	2245.1	2241.0	2228.6	2208.1	2179.5	2143.0	2098.8	2047.0
50°	2535.9	2567.5	2586.5	2592.9	2586.5	2567.5	2535.9	2491.8	2435.6	2367.6	2288.2
47.5°	2848.2	2879.1	2897.7	2903.9	2897.7	2879.1	2848.2	2805.3	2750.6	2684.4	2607.2
45°	3247.5	3293.7	3321.6	3330.9	3321.6	3293.7	3247.5	3183.3	3101.6	3002.9	2892.2
42.5°	5435.5	5750.9	5941.2	6004.8	5941.2	5750.9	5435.5	4997.8	4441.2	3770.0	3276.3
40°	9207.6	9744.2	10068.2	10176.6	10068.2	9744.2	9207.6	8463.7	7519.3	6382.7	5401.4
37.5°	13850.4	14541.6	14959.5	15099.3	14959.5	14541.6	13850.4	12893.5	11681.1	10225.1	8788.9
35°	19015.6	19848.1	20352.0	20520.7	20352.0	19848.1	19015.6	17865.2	16410.8	14708.5	12882.5
32.5°	24838.4	25883.7	26517.4	26729.7	26517.4	25883.7	24838.4	23397.2	21580.2	19551.6	17372.3
30°	31529.2	32866.3	33678.5	33950.9	33678.5	32866.3	31529.2	29690.5	27380.3	24926.7	22220.0
27.5°	39490.5	41291.5	42388.2	42756.5	42388.2	41291.5	39490.5	37022.6	33937.6	30940.2	27523.0
25°	50874.4	54012.8	55930.0	56575.0	55930.0	54012.8	50874.4	46592.8	41805.3	37809.3	33401.6
22.5°	66919.5	71802.1	74797.5	75807.5	74797.5	71802.1	66919.5	60296.6	53366.6	46494.6	40212.4
20°	87855.1	95072.2	99525.6	101031.9	99525.6	95072.2	87855.1	78140.8	68510.7	58004.2	49185.3
17.5°	114304.2	125038.4	131716.4	133985.4	131716.4	125038.4	114304.2	100247.8	86992.2	72769.3	60012.4
15°	142155.1	152139.8	158426.5	160577.1	158426.5	152139.8	142155.1	127871.1	108502.0	90028.2	72769.3
12.5°	164717.2	174543.8	180573.6	182572.9	180573.6	174543.8	164717.2	150388.0	132575.4	108502.0	86992.2
10°	182761.1	192760.9	199166.2	201430.8	199166.2	192760.9	182761.1	168740.2	150388.0	127871.1	100247.8
7.5°	197035.0	208321.9	215158.1	217591.1	215158.1	208321.9	197035.0	182761.1	164717.2	142155.1	114304.2
5°	208321.9	220204.8	228296.3	231143.6	228296.3	220204.8	208321.9	192760.9	174543.8	152139.8	125038.4
2.5°	215158.1	228296.3	236112.7	238358.4	236112.7	228296.3	215158.1	199166.2	180573.6	158426.5	131716.4
0°	217591.1	231143.6	238358.4	239380.6	238358.4	231143.6	217591.1	201430.8	182572.9	160577.1	133985.4
-2.5°	215158.1	228296.3	236112.7	238358.4	236112.7	228296.3	215158.1	199166.2	180573.6	158426.5	131716.4
-5°	208321.9	220204.8	228296.3	231143.6	228296.3	220204.8	208321.9	192760.9	174543.8	152139.8	125038.4
-7.5°	197035.0	208321.9	215158.1	217591.1	215158.1	208321.9	197035.0	182761.1	164717.2	142155.1	114304.2
-10°	182761.1	192760.9	199166.2	201430.8	199166.2	192760.9	182761.1	168740.2	150388.0	127871.1	100247.8
-12.5°	164717.2	174543.8	180573.6	182572.9	180573.6	174543.8	164717.2	150388.0	132575.4	108502.0	86992.2
-15°	142155.1	152139.8	158426.5	160577.1	158426.5	152139.8	142155.1	127871.1	108502.0	90028.2	72769.3
-17.5°	114304.2	125038.4	131716.4	133985.4	131716.4	125038.4	114304.2	100247.8	86992.2	72769.3	60012.4
-20°	87855.1	95072.2	99525.6	101031.9	99525.6	95072.2	87855.1	78140.8	68510.7	58004.2	49185.3



REPORT NUMBER: P731273 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	66919.5	71802.1	74797.5	75807.5	74797.5	71802.1	66919.5	60296.6	53366.6	46494.6	40212.4
-25°	50874.4	54012.8	55930.0	56575.0	55930.0	54012.8	50874.4	46592.8	41805.3	37809.3	33401.6
-27.5°	39490.5	41291.5	42388.2	42756.5	42388.2	41291.5	39490.5	37022.6	33937.6	30940.2	27523.0
-30°	31529.2	32866.3	33678.5	33950.9	33678.5	32866.3	31529.2	29690.5	27380.3	24926.7	22220.0
-32.5°	24838.4	25883.7	26517.4	26729.7	26517.4	25883.7	24838.4	23397.2	21580.2	19551.6	17372.3
-35°	19015.6	19848.1	20352.0	20520.7	20352.0	19848.1	19015.6	17865.2	16410.8	14708.5	12882.5
-37.5°	13850.4	14541.6	14959.5	15099.3	14959.5	14541.6	13850.4	12893.5	11681.1	10225.1	8788.9
-40°	9207.6	9744.2	10068.2	10176.6	10068.2	9744.2	9207.6	8463.7	7519.3	6382.7	5401.4
-42.5°	5435.5	5750.9	5941.2	6004.8	5941.2	5750.9	5435.5	4997.8	4441.2	3770.0	3276.3
-45°	3247.5	3293.7	3321.6	3330.9	3321.6	3293.7	3247.5	3183.3	3101.6	3002.9	2892.2
-47.5°	2848.2	2879.1	2897.7	2903.9	2897.7	2879.1	2848.2	2805.3	2750.6	2684.4	2607.2
-50°	2535.9	2567.5	2586.5	2592.9	2586.5	2567.5	2535.9	2491.8	2435.6	2367.6	2288.2
-52.5°	2208.1	2228.6	2241.0	2245.1	2241.0	2228.6	2208.1	2179.5	2143.0	2098.8	2047.0
-55°	1973.0	1987.2	1995.7	1998.5	1995.7	1987.2	1973.0	1953.4	1928.2	1897.7	1862.0
-57.5°	1782.9	1799.4	1809.4	1812.7	1809.4	1799.4	1782.9	1759.8	1730.3	1694.5	1652.5
-60°	1538.0	1557.7	1569.5	1573.4	1569.5	1557.7	1538.0	1510.7	1475.7	1433.2	1383.3
-62.5°	1227.4	1245.8	1256.9	1260.6	1256.9	1245.8	1227.4	1201.7	1168.8	1128.8	1081.9
-65°	908.2	923.0	931.9	934.9	931.9	923.0	908.2	887.5	860.9	828.7	790.8
-67.5°	622.5	633.4	640.0	642.2	640.0	633.4	622.5	607.2	587.7	563.9	535.9
-70°	387.2	393.9	398.0	399.3	398.0	393.9	387.2	377.9	365.9	351.3	334.1
-72.5°	223.9	227.3	229.3	230.0	229.3	227.3	223.9	219.1	213.0	205.6	196.9
-75°	126.9	129.0	130.3	130.7	130.3	129.0	126.9	124.0	120.3	115.7	110.3
-77.5°	57.6	58.3	58.8	58.9	58.8	58.3	57.6	56.6	55.3	53.8	52.0
-80°	29.1	29.3	29.4	29.4	29.4	29.3	29.1	28.8	28.5	28.1	27.7
-82.5°	20.0	20.1	20.2	20.2	20.2	20.1	20.0	19.8	19.5	19.3	18.9
-85°	10.9	11.0	11.0	11.0	11.0	11.0	10.9	10.8	10.7	10.6	10.5
-87.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.4	5.4	5.3	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



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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°	5.2	5.1	5.0	4.9	4.8	4.6	4.5	4.4	4.2	4.1	3.9
85°	10.3	10.2	10.0	9.8	9.5	9.3	9.0	8.7	8.4	8.1	7.8
82.5°	18.5	18.1	17.6	17.1	16.5	15.9	15.2	14.5	13.7	12.9	12.1
80°	27.2	26.6	25.9	25.2	24.4	23.6	22.7	21.7	20.7	19.7	18.6
77.5°	49.9	47.5	44.9	42.0	38.9	35.5	31.9	29.0	27.7	26.4	25.0
75°	104.2	97.2	89.5	81.1	71.9	62.0	55.8	51.2	46.3	41.2	35.8
72.5°	186.9	175.6	163.1	149.4	134.5	121.8	109.4	96.3	82.4	67.8	56.3
70°	314.5	292.3	267.8	240.9	219.3	200.8	181.2	160.3	138.2	119.4	101.8
67.5°	503.8	467.8	427.8	388.7	355.6	320.0	282.1	241.8	212.0	185.8	158.5
65°	747.5	698.7	644.7	595.2	542.0	484.9	424.0	371.5	324.1	274.3	225.5
62.5°	1028.1	967.7	904.3	838.7	767.6	691.3	615.5	544.0	468.8	392.8	335.4
60°	1326.2	1262.1	1188.5	1107.9	1020.7	928.1	838.7	744.1	644.7	557.8	467.8
57.5°	1604.5	1543.6	1465.9	1381.1	1289.5	1188.5	1079.8	965.0	853.5	740.2	625.6
55°	1821.2	1764.8	1699.9	1629.1	1546.4	1439.6	1326.2	1204.3	1073.6	937.1	809.3
52.5°	1990.6	1940.8	1885.9	1826.2	1747.3	1658.8	1562.4	1433.2	1297.7	1152.3	999.6
50°	2211.4	2139.7	2060.7	1980.8	1911.2	1837.1	1743.0	1636.7	1510.7	1359.3	1199.9
47.5°	2510.6	2401.0	2280.6	2177.7	2078.3	1978.8	1894.6	1804.1	1685.1	1557.7	1390.3
45°	2797.1	2691.1	2572.8	2432.2	2281.4	2157.3	2037.6	1933.4	1834.8	1709.5	1573.4
42.5°	3135.0	2978.0	2832.8	2697.6	2548.4	2377.1	2210.8	2077.2	1953.0	1844.5	1709.5
40°	4445.2	3385.2	3154.8	2955.8	2787.1	2623.5	2435.2	2237.9	2090.4	1953.0	1834.8
37.5°	7177.5	5614.8	4372.5	3284.0	3057.3	2841.5	2659.1	2454.7	2237.9	2077.2	1933.4
35°	10829.4	8812.8	6733.4	5044.2	3530.5	3108.6	2859.7	2659.1	2435.2	2210.8	2037.6
32.5°	14946.6	12513.2	9928.3	7549.8	5384.2	3696.2	3108.6	2841.5	2623.5	2377.1	2157.3
30°	19368.4	16487.1	13543.9	10551.1	7824.3	5384.2	3530.5	3057.3	2787.1	2548.4	2281.4
27.5°	24151.2	20604.9	17277.9	13891.0	10551.1	7549.8	5044.2	3284.0	2955.8	2697.6	2432.2
25°	29305.3	25135.5	21078.4	17277.9	13543.9	9928.3	6733.4	4372.5	3154.8	2832.8	2572.8
22.5°	34816.8	29907.9	25135.5	20604.9	16487.1	12513.2	8812.8	5614.8	3385.2	2978.0	2691.1
20°	41027.5	34816.8	29305.3	24151.2	19368.4	14946.6	10829.4	7177.5	4445.2	3135.0	2797.1
17.5°	49185.3	40212.4	33401.6	27523.0	22220.0	17372.3	12882.5	8788.9	5401.4	3276.3	2892.2
15°	58004.2	46494.6	37809.3	30940.2	24926.7	19551.6	14708.5	10225.1	6382.7	3770.0	3002.9
12.5°	68510.7	53366.6	41805.3	33937.6	27380.3	21580.2	16410.8	11681.1	7519.3	4441.2	3101.6
10°	78140.8	60296.6	46592.8	37022.6	29690.5	23397.2	17865.2	12893.5	8463.7	4997.8	3183.3
7.5°	87855.1	66919.5	50874.4	39490.5	31529.2	24838.4	19015.6	13850.4	9207.6	5435.5	3247.5
5°	95072.2	71802.1	54012.8	41291.5	32866.3	25883.7	19848.1	14541.6	9744.2	5750.9	3293.7
2.5°	99525.6	74797.5	55930.0	42388.2	33678.5	26517.4	20352.0	14959.5	10068.2	5941.2	3321.6
0°	101031.9	75807.5	56575.0	42756.5	33950.9	26729.7	20520.7	15099.3	10176.6	6004.8	3330.9
-2.5°	99525.6	74797.5	55930.0	42388.2	33678.5	26517.4	20352.0	14959.5	10068.2	5941.2	3321.6
-5°	95072.2	71802.1	54012.8	41291.5	32866.3	25883.7	19848.1	14541.6	9744.2	5750.9	3293.7
-7.5°	87855.1	66919.5	50874.4	39490.5	31529.2	24838.4	19015.6	13850.4	9207.6	5435.5	3247.5
-10°	78140.8	60296.6	46592.8	37022.6	29690.5	23397.2	17865.2	12893.5	8463.7	4997.8	3183.3
-12.5°	68510.7	53366.6	41805.3	33937.6	27380.3	21580.2	16410.8	11681.1	7519.3	4441.2	3101.6
-15°	58004.2	46494.6	37809.3	30940.2	24926.7	19551.6	14708.5	10225.1	6382.7	3770.0	3002.9
-17.5°	49185.3	40212.4	33401.6	27523.0	22220.0	17372.3	12882.5	8788.9	5401.4	3276.3	2892.2
-20°	41027.5	34816.8	29305.3	24151.2	19368.4	14946.6	10829.4	7177.5	4445.2	3135.0	2797.1



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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°	34816.8	29907.9	25135.5	20604.9	16487.1	12513.2	8812.8	5614.8	3385.2	2978.0	2691.1
-25°	29305.3	25135.5	21078.4	17277.9	13543.9	9928.3	6733.4	4372.5	3154.8	2832.8	2572.8
-27.5°	24151.2	20604.9	17277.9	13891.0	10551.1	7549.8	5044.2	3284.0	2955.8	2697.6	2432.2
-30°	19368.4	16487.1	13543.9	10551.1	7824.3	5384.2	3530.5	3057.3	2787.1	2548.4	2281.4
-32.5°	14946.6	12513.2	9928.3	7549.8	5384.2	3696.2	3108.6	2841.5	2623.5	2377.1	2157.3
-35°	10829.4	8812.8	6733.4	5044.2	3530.5	3108.6	2859.7	2659.1	2435.2	2210.8	2037.6
-37.5°	7177.5	5614.8	4372.5	3284.0	3057.3	2841.5	2659.1	2454.7	2237.9	2077.2	1933.4
-40°	4445.2	3385.2	3154.8	2955.8	2787.1	2623.5	2435.2	2237.9	2090.4	1953.0	1834.8
-42.5°	3135.0	2978.0	2832.8	2697.6	2548.4	2377.1	2210.8	2077.2	1953.0	1844.5	1709.5
-45°	2797.1	2691.1	2572.8	2432.2	2281.4	2157.3	2037.6	1933.4	1834.8	1709.5	1573.4
-47.5°	2510.6	2401.0	2280.6	2177.7	2078.3	1978.8	1894.6	1804.1	1685.1	1557.7	1390.3
-50°	2211.4	2139.7	2060.7	1980.8	1911.2	1837.1	1743.0	1636.7	1510.7	1359.3	1199.9
-52.5°	1990.6	1940.8	1885.9	1826.2	1747.3	1658.8	1562.4	1433.2	1297.7	1152.3	999.6
-55°	1821.2	1764.8	1699.9	1629.1	1546.4	1439.6	1326.2	1204.3	1073.6	937.1	809.3
-57.5°	1604.5	1543.6	1465.9	1381.1	1289.5	1188.5	1079.8	965.0	853.5	740.2	625.6
-60°	1326.2	1262.1	1188.5	1107.9	1020.7	928.1	838.7	744.1	644.7	557.8	467.8
-62.5°	1028.1	967.7	904.3	838.7	767.6	691.3	615.5	544.0	468.8	392.8	335.4
-65°	747.5	698.7	644.7	595.2	542.0	484.9	424.0	371.5	324.1	274.3	225.5
-67.5°	503.8	467.8	427.8	388.7	355.6	320.0	282.1	241.8	212.0	185.8	158.5
-70°	314.5	292.3	267.8	240.9	219.3	200.8	181.2	160.3	138.2	119.4	101.8
-72.5°	186.9	175.6	163.1	149.4	134.5	121.8	109.4	96.3	82.4	67.8	56.3
-75°	104.2	97.2	89.5	81.1	71.9	62.0	55.8	51.2	46.3	41.2	35.8
-77.5°	49.9	47.5	44.9	42.0	38.9	35.5	31.9	29.0	27.7	26.4	25.0
-80°	27.2	26.6	25.9	25.2	24.4	23.6	22.7	21.7	20.7	19.7	18.6
-82.5°	18.5	18.1	17.6	17.1	16.5	15.9	15.2	14.5	13.7	12.9	12.1
-85°	10.3	10.2	10.0	9.8	9.5	9.3	9.0	8.7	8.4	8.1	7.8
-87.5°	5.2	5.1	5.0	4.9	4.8	4.6	4.5	4.4	4.2	4.1	3.9
-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: P731273 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-4S-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°	3.7	3.5	3.3	3.2	3.0	2.7	2.5	2.3	2.1	1.9	1.7
85°	7.4	7.1	6.7	6.3	5.9	5.5	5.1	4.6	4.2	3.8	3.3
82.5°	11.2	10.6	10.0	9.4	8.8	8.2	7.6	7.0	6.3	5.6	4.9
80°	17.4	16.2	14.9	13.6	12.3	11.0	10.1	9.3	8.4	7.5	6.6
77.5°	23.5	22.0	20.5	18.8	17.2	15.5	13.7	11.9	10.5	9.3	8.2
75°	30.2	27.8	26.0	24.0	22.0	20.0	17.9	15.7	13.5	11.3	9.8
72.5°	49.7	42.9	35.9	29.1	26.8	24.4	22.0	19.5	16.9	14.3	11.7
70°	83.6	64.6	53.2	44.9	36.4	28.8	26.0	23.2	20.3	17.3	14.3
67.5°	130.2	108.9	86.8	64.1	51.4	41.6	31.5	26.9	23.6	20.3	16.9
65°	193.8	161.0	128.1	102.8	76.8	55.3	44.2	32.8	26.9	23.2	19.5
62.5°	275.8	220.7	183.4	144.9	112.5	83.3	56.7	44.2	31.5	26.0	22.0
60°	381.9	314.5	245.0	196.9	153.9	115.7	83.3	55.3	41.6	28.8	24.4
57.5°	524.1	419.2	337.8	260.5	201.4	153.9	112.5	76.8	51.4	36.4	26.8
55°	677.2	558.1	441.7	345.6	260.5	196.9	144.9	102.8	64.1	44.9	29.1
52.5°	851.2	704.9	569.5	441.7	337.8	245.0	183.4	128.1	86.8	53.2	35.9
50°	1031.1	865.2	704.9	558.1	419.2	314.5	220.7	161.0	108.9	64.6	42.9
47.5°	1215.8	1031.1	851.2	677.2	524.1	381.9	275.8	193.8	130.2	83.6	49.7
45°	1390.3	1199.9	999.6	809.3	625.6	467.8	335.4	225.5	158.5	101.8	56.3
42.5°	1557.7	1359.3	1152.3	937.1	740.2	557.8	392.8	274.3	185.8	119.4	67.8
40°	1685.1	1510.7	1297.7	1073.6	853.5	644.7	468.8	324.1	212.0	138.2	82.4
37.5°	1804.1	1636.7	1433.2	1204.3	965.0	744.1	544.0	371.5	241.8	160.3	96.3
35°	1894.6	1743.0	1562.4	1326.2	1079.8	838.7	615.5	424.0	282.1	181.2	109.4
32.5°	1978.8	1837.1	1658.8	1439.6	1188.5	928.1	691.3	484.9	320.0	200.8	121.8
30°	2078.3	1911.2	1747.3	1546.4	1289.5	1020.7	767.6	542.0	355.6	219.3	134.5
27.5°	2177.7	1980.8	1826.2	1629.1	1381.1	1107.9	838.7	595.2	388.7	240.9	149.4
25°	2280.6	2060.7	1885.9	1699.9	1465.9	1188.5	904.3	644.7	427.8	267.8	163.1
22.5°	2401.0	2139.7	1940.8	1764.8	1543.6	1262.1	967.7	698.7	467.8	292.3	175.6
20°	2510.6	2211.4	1990.6	1821.2	1604.5	1326.2	1028.1	747.5	503.8	314.5	186.9
17.5°	2607.2	2288.2	2047.0	1862.0	1652.5	1383.3	1081.9	790.8	535.9	334.1	196.9
15°	2684.4	2367.6	2098.8	1897.7	1694.5	1433.2	1128.8	828.7	563.9	351.3	205.6
12.5°	2750.6	2435.6	2143.0	1928.2	1730.3	1475.7	1168.8	860.9	587.7	365.9	213.0
10°	2805.3	2491.8	2179.5	1953.4	1759.8	1510.7	1201.7	887.5	607.2	377.9	219.1
7.5°	2848.2	2535.9	2208.1	1973.0	1782.9	1538.0	1227.4	908.2	622.5	387.2	223.9
5°	2879.1	2567.5	2228.6	1987.2	1799.4	1557.7	1245.8	923.0	633.4	393.9	227.3
2.5°	2897.7	2586.5	2241.0	1995.7	1809.4	1569.5	1256.9	931.9	640.0	398.0	229.3
0°	2903.9	2592.9	2245.1	1998.5	1812.7	1573.4	1260.6	934.9	642.2	399.3	230.0
-2.5°	2897.7	2586.5	2241.0	1995.7	1809.4	1569.5	1256.9	931.9	640.0	398.0	229.3
-5°	2879.1	2567.5	2228.6	1987.2	1799.4	1557.7	1245.8	923.0	633.4	393.9	227.3
-7.5°	2848.2	2535.9	2208.1	1973.0	1782.9	1538.0	1227.4	908.2	622.5	387.2	223.9
-10°	2805.3	2491.8	2179.5	1953.4	1759.8	1510.7	1201.7	887.5	607.2	377.9	219.1
-12.5°	2750.6	2435.6	2143.0	1928.2	1730.3	1475.7	1168.8	860.9	587.7	365.9	213.0
-15°	2684.4	2367.6	2098.8	1897.7	1694.5	1433.2	1128.8	828.7	563.9	351.3	205.6
-17.5°	2607.2	2288.2	2047.0	1862.0	1652.5	1383.3	1081.9	790.8	535.9	334.1	196.9
-20°	2510.6	2211.4	1990.6	1821.2	1604.5	1326.2	1028.1	747.5	503.8	314.5	186.9



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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°	2401.0	2139.7	1940.8	1764.8	1543.6	1262.1	967.7	698.7	467.8	292.3	175.6
-25°	2280.6	2060.7	1885.9	1699.9	1465.9	1188.5	904.3	644.7	427.8	267.8	163.1
-27.5°	2177.7	1980.8	1826.2	1629.1	1381.1	1107.9	838.7	595.2	388.7	240.9	149.4
-30°	2078.3	1911.2	1747.3	1546.4	1289.5	1020.7	767.6	542.0	355.6	219.3	134.5
-32.5°	1978.8	1837.1	1658.8	1439.6	1188.5	928.1	691.3	484.9	320.0	200.8	121.8
-35°	1894.6	1743.0	1562.4	1326.2	1079.8	838.7	615.5	424.0	282.1	181.2	109.4
-37.5°	1804.1	1636.7	1433.2	1204.3	965.0	744.1	544.0	371.5	241.8	160.3	96.3
-40°	1685.1	1510.7	1297.7	1073.6	853.5	644.7	468.8	324.1	212.0	138.2	82.4
-42.5°	1557.7	1359.3	1152.3	937.1	740.2	557.8	392.8	274.3	185.8	119.4	67.8
-45°	1390.3	1199.9	999.6	809.3	625.6	467.8	335.4	225.5	158.5	101.8	56.3
-47.5°	1215.8	1031.1	851.2	677.2	524.1	381.9	275.8	193.8	130.2	83.6	49.7
-50°	1031.1	865.2	704.9	558.1	419.2	314.5	220.7	161.0	108.9	64.6	42.9
-52.5°	851.2	704.9	569.5	441.7	337.8	245.0	183.4	128.1	86.8	53.2	35.9
-55°	677.2	558.1	441.7	345.6	260.5	196.9	144.9	102.8	64.1	44.9	29.1
-57.5°	524.1	419.2	337.8	260.5	201.4	153.9	112.5	76.8	51.4	36.4	26.8
-60°	381.9	314.5	245.0	196.9	153.9	115.7	83.3	55.3	41.6	28.8	24.4
-62.5°	275.8	220.7	183.4	144.9	112.5	83.3	56.7	44.2	31.5	26.0	22.0
-65°	193.8	161.0	128.1	102.8	76.8	55.3	44.2	32.8	26.9	23.2	19.5
-67.5°	130.2	108.9	86.8	64.1	51.4	41.6	31.5	26.9	23.6	20.3	16.9
-70°	83.6	64.6	53.2	44.9	36.4	28.8	26.0	23.2	20.3	17.3	14.3
-72.5°	49.7	42.9	35.9	29.1	26.8	24.4	22.0	19.5	16.9	14.3	11.7
-75°	30.2	27.8	26.0	24.0	22.0	20.0	17.9	15.7	13.5	11.3	9.8
-77.5°	23.5	22.0	20.5	18.8	17.2	15.5	13.7	11.9	10.5	9.3	8.2
-80°	17.4	16.2	14.9	13.6	12.3	11.0	10.1	9.3	8.4	7.5	6.6
-82.5°	11.2	10.6	10.0	9.4	8.8	8.2	7.6	7.0	6.3	5.6	4.9
-85°	7.4	7.1	6.7	6.3	5.9	5.5	5.1	4.6	4.2	3.8	3.3
-87.5°	3.7	3.5	3.3	3.2	3.0	2.7	2.5	2.3	2.1	1.9	1.7
-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°	1.4	1.2	1.0	0.7	0.5	0.2	0.0
85°	2.8	2.4	1.9	1.4	1.0	0.5	0.0
82.5°	4.3	3.6	2.9	2.1	1.4	0.7	0.0
80°	5.7	4.7	3.8	2.9	1.9	1.0	0.0
77.5°	7.1	5.9	4.7	3.6	2.4	1.2	0.0
75°	8.5	7.1	5.7	4.3	2.8	1.4	0.0
72.5°	9.8	8.2	6.6	4.9	3.3	1.7	0.0
70°	11.3	9.3	7.5	5.6	3.8	1.9	0.0
67.5°	13.5	10.5	8.4	6.3	4.2	2.1	0.0
65°	15.7	11.9	9.3	7.0	4.6	2.3	0.0
62.5°	17.9	13.7	10.1	7.6	5.1	2.5	0.0
60°	20.0	15.5	11.0	8.2	5.5	2.7	0.0
57.5°	22.0	17.2	12.3	8.8	5.9	3.0	0.0
55°	24.0	18.8	13.6	9.4	6.3	3.2	0.0
52.5°	26.0	20.5	14.9	10.0	6.7	3.3	0.0
50°	27.8	22.0	16.2	10.6	7.1	3.5	0.0
47.5°	30.2	23.5	17.4	11.2	7.4	3.7	0.0
45°	35.8	25.0	18.6	12.1	7.8	3.9	0.0
42.5°	41.2	26.4	19.7	12.9	8.1	4.1	0.0
40°	46.3	27.7	20.7	13.7	8.4	4.2	0.0
37.5°	51.2	29.0	21.7	14.5	8.7	4.4	0.0
35°	55.8	31.9	22.7	15.2	9.0	4.5	0.0
32.5°	62.0	35.5	23.6	15.9	9.3	4.6	0.0
30°	71.9	38.9	24.4	16.5	9.5	4.8	0.0
27.5°	81.1	42.0	25.2	17.1	9.8	4.9	0.0
25°	89.5	44.9	25.9	17.6	10.0	5.0	0.0
22.5°	97.2	47.5	26.6	18.1	10.2	5.1	0.0
20°	104.2	49.9	27.2	18.5	10.3	5.2	0.0
17.5°	110.3	52.0	27.7	18.9	10.5	5.2	0.0
15°	115.7	53.8	28.1	19.3	10.6	5.3	0.0
12.5°	120.3	55.3	28.5	19.5	10.7	5.4	0.0
10°	124.0	56.6	28.8	19.8	10.8	5.4	0.0
7.5°	126.9	57.6	29.1	20.0	10.9	5.5	0.0
5°	129.0	58.3	29.3	20.1	11.0	5.5	0.0
2.5°	130.3	58.8	29.4	20.2	11.0	5.5	0.0
0°	130.7	58.9	29.4	20.2	11.0	5.5	0.0
-2.5°	130.3	58.8	29.4	20.2	11.0	5.5	0.0
-5°	129.0	58.3	29.3	20.1	11.0	5.5	0.0
-7.5°	126.9	57.6	29.1	20.0	10.9	5.5	0.0
-10°	124.0	56.6	28.8	19.8	10.8	5.4	0.0
-12.5°	120.3	55.3	28.5	19.5	10.7	5.4	0.0
-15°	115.7	53.8	28.1	19.3	10.6	5.3	0.0
-17.5°	110.3	52.0	27.7	18.9	10.5	5.2	0.0
-20°	104.2	49.9	27.2	18.5	10.3	5.2	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	97.2	47.5	26.6	18.1	10.2	5.1	0.0
-25°	89.5	44.9	25.9	17.6	10.0	5.0	0.0
-27.5°	81.1	42.0	25.2	17.1	9.8	4.9	0.0
-30°	71.9	38.9	24.4	16.5	9.5	4.8	0.0
-32.5°	62.0	35.5	23.6	15.9	9.3	4.6	0.0
-35°	55.8	31.9	22.7	15.2	9.0	4.5	0.0
-37.5°	51.2	29.0	21.7	14.5	8.7	4.4	0.0
-40°	46.3	27.7	20.7	13.7	8.4	4.2	0.0
-42.5°	41.2	26.4	19.7	12.9	8.1	4.1	0.0
-45°	35.8	25.0	18.6	12.1	7.8	3.9	0.0
-47.5°	30.2	23.5	17.4	11.2	7.4	3.7	0.0
-50°	27.8	22.0	16.2	10.6	7.1	3.5	0.0
-52.5°	26.0	20.5	14.9	10.0	6.7	3.3	0.0
-55°	24.0	18.8	13.6	9.4	6.3	3.2	0.0
-57.5°	22.0	17.2	12.3	8.8	5.9	3.0	0.0
-60°	20.0	15.5	11.0	8.2	5.5	2.7	0.0
-62.5°	17.9	13.7	10.1	7.6	5.1	2.5	0.0
-65°	15.7	11.9	9.3	7.0	4.6	2.3	0.0
-67.5°	13.5	10.5	8.4	6.3	4.2	2.1	0.0
-70°	11.3	9.3	7.5	5.6	3.8	1.9	0.0
-72.5°	9.8	8.2	6.6	4.9	3.3	1.7	0.0
-75°	8.5	7.1	5.7	4.3	2.8	1.4	0.0
-77.5°	7.1	5.9	4.7	3.6	2.4	1.2	0.0
-80°	5.7	4.7	3.8	2.9	1.9	1.0	0.0
-82.5°	4.3	3.6	2.9	2.1	1.4	0.7	0.0
-85°	2.8	2.4	1.9	1.4	1.0	0.5	0.0
-87.5°	1.4	1.2	1.0	0.7	0.5	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

