

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: P731303 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-57-80-4S-HEG**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731303 (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-57-80-4S-HEG
Description: EPHEBUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 4S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

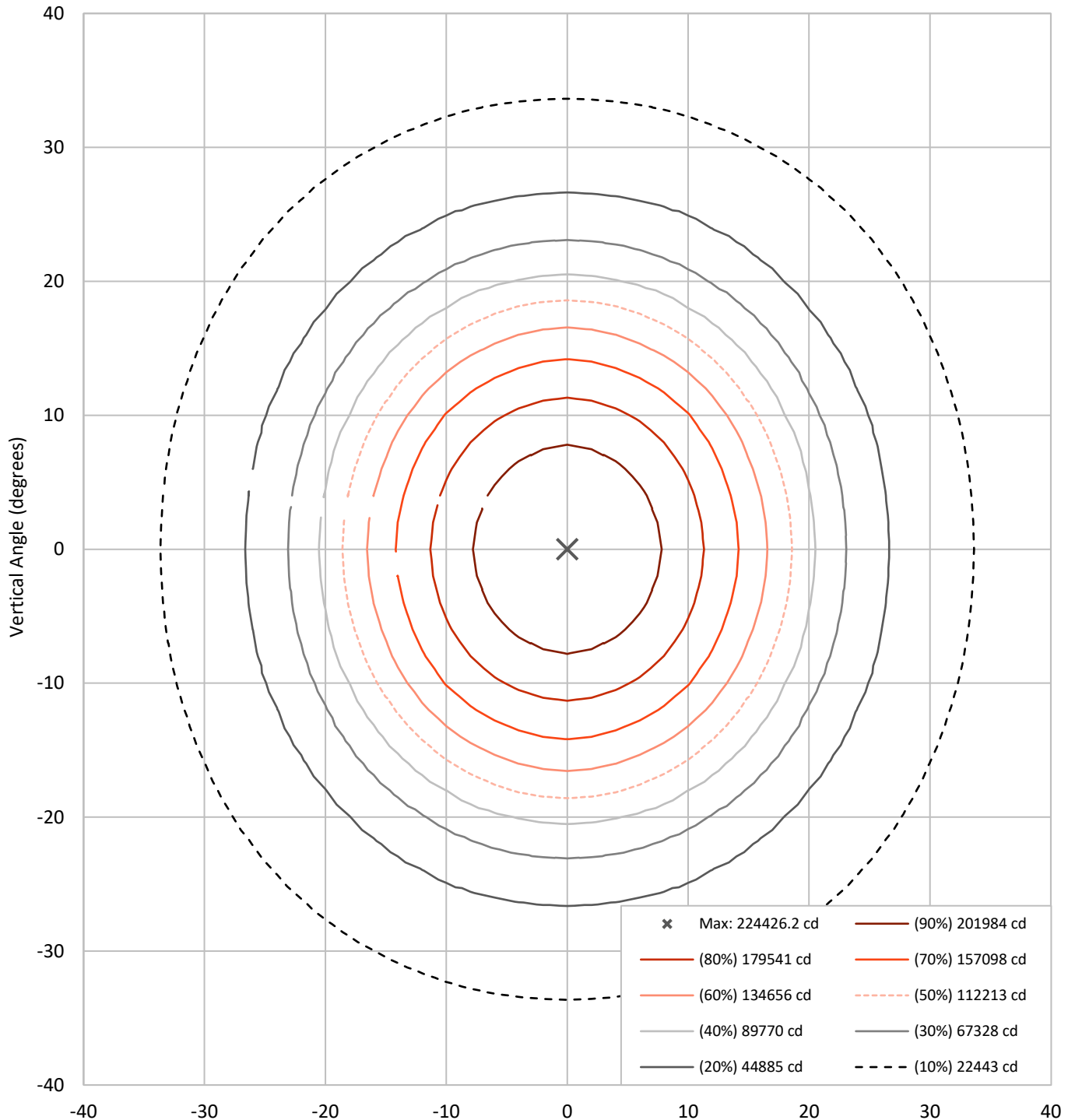
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	103642.2 lumens	Max Intensity:	224426.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	148.7 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:	53955.2 lumens	Field Lumens:	90635.6 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





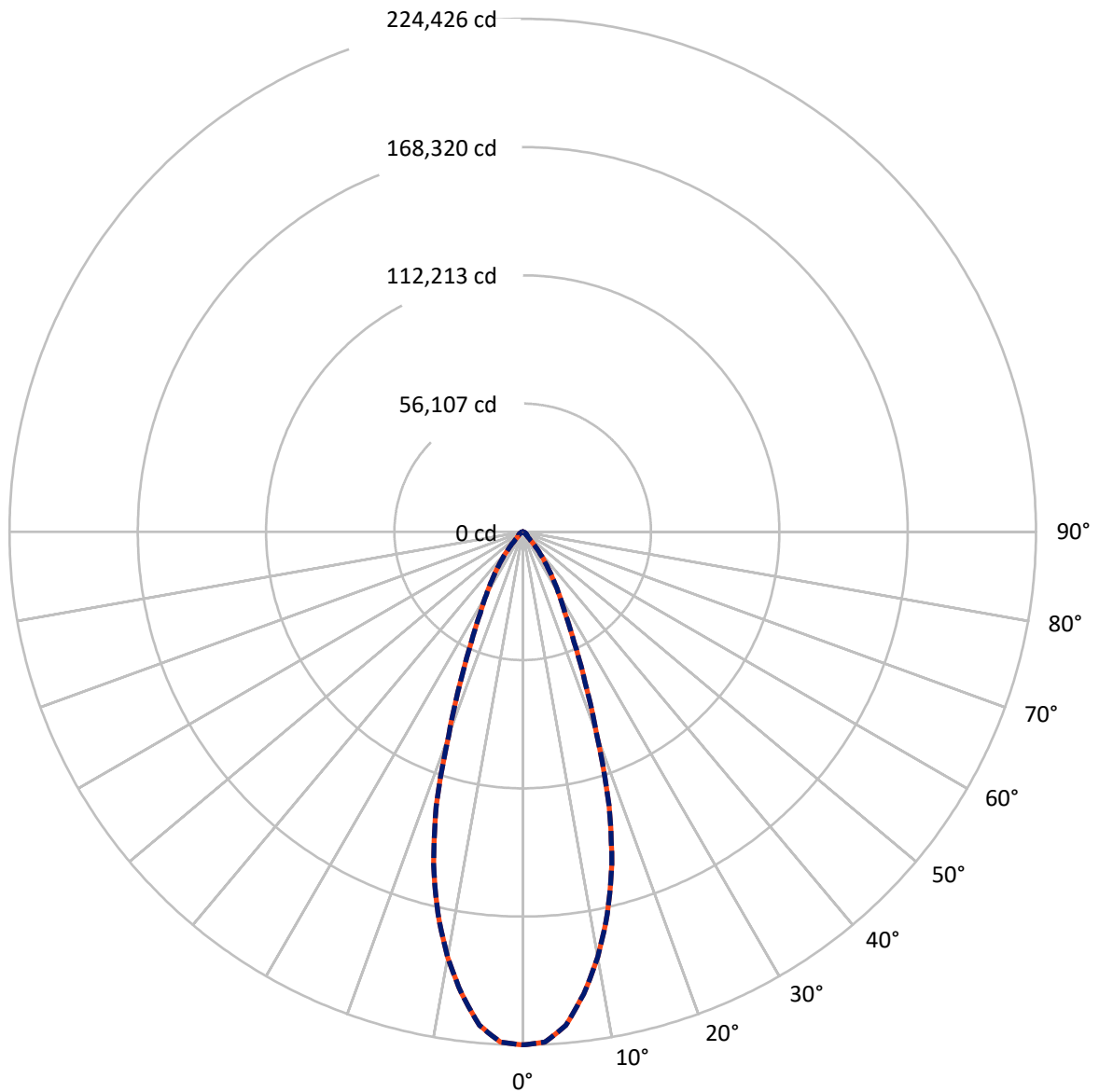
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Lumen Table

90															90				
80	0.1	0.8		3.1		7.4		9.6		7.4		3.1		0.8		0.1			
70															70				
60	0.4	0.5	1.9	5.2	10.8	17.5	23.4	26.7	26.7	23.4	17.5	10.8	5.2	1.9	0.5	0.4			
50		1.4	6.1	16.7	30.6	43.1	52.2	57.2	57.2	52.2	43.1	30.6	16.7	6.1	1.4				
40	1.0	3.2	13.6	31.1	48.3	67.0	96.3	127.0	127.0	96.3	67.0	48.3	31.1	13.6	3.2	1.0			
30		5.8	21.7	41.8	72.5	195.0	412.5	572.2	572.2	412.5	195.0	72.5	41.8	21.7	5.8				
20	2.1	8.5	27.5	52.5	177.5	554.7	1084.7	1612.9	1612.9	1084.7	554.7	177.5	52.5	27.5	8.5	2.1			
10		10.6	31.2	71.3	353.3	1021.3	2529.3	4152.0	4152.0	2529.3	1021.3	353.3	71.3	31.2	10.6				
0	2.7	11.8	33.2	91.9	475.5	1476.8	4034.6	6077.4	6077.4	4034.6	1476.8	475.5	91.9	33.2	11.8	2.7			
-10		11.8	33.2	91.9	475.5	1476.8	4034.6	6077.4	6077.4	4034.6	1476.8	475.5	91.9	33.2	11.8				
-20	2.1	10.6	31.2	71.3	353.3	1021.3	2529.3	4152.0	4152.0	2529.3	1021.3	353.3	71.3	31.2	10.6	2.1			
-30		8.5	27.5	52.5	177.5	554.7	1084.7	1612.9	1612.9	1084.7	554.7	177.5	52.5	27.5	8.5				
-40	1.0	5.8	21.7	41.8	72.5	195.0	412.5	572.2	572.2	412.5	195.0	72.5	41.8	21.7	5.8	1.0			
-50		3.2	13.6	31.1	48.3	67.0	96.3	127.0	127.0	96.3	67.0	48.3	31.1	13.6	3.2				
-60	0.4	1.4	6.1	16.7	30.6	43.1	52.2	57.2	57.2	52.2	43.1	30.6	16.7	6.1	1.4	0.4			
-70		0.5	1.9	5.2	10.8	17.5	23.4	26.7	26.7	23.4	17.5	10.8	5.2	1.9	0.5				
-80															-80				
-90	0.1	0.8		3.1		7.4		9.6		7.4		3.1		0.8		0.1			
-90	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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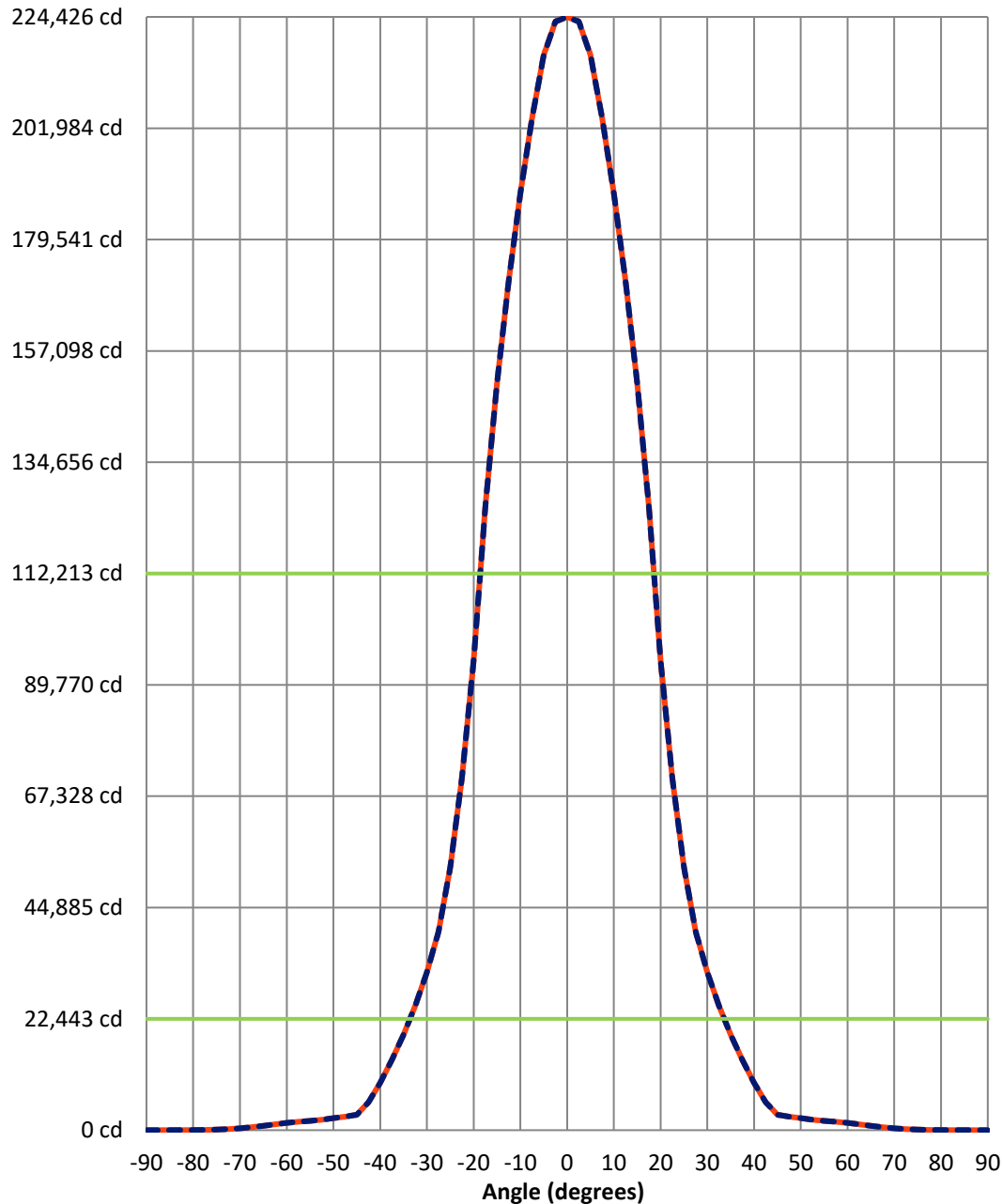
Luminous Intensity Polar Plot



— 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: 53955.2
Efficiency: 52.1%

Field:
H Angle: 67.2°
V Angle: 67.2°
Lumens: 90635.6
Efficiency: 87.5%

Spill:
Lumens: 13006.5
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	0.9	1.1	1.3	1.6	1.8	2.0	2.2
85°	0.0	0.5	0.9	1.4	1.8	2.2	2.7	3.1	3.6	4.0	4.4
82.5°	0.0	0.7	1.4	2.0	2.7	3.4	4.0	4.7	5.3	6.0	6.6
80°	0.0	0.9	1.8	2.7	3.6	4.5	5.4	6.2	7.1	7.9	8.8
77.5°	0.0	1.1	2.2	3.4	4.5	5.6	6.7	7.8	8.8	9.9	11.3
75°	0.0	1.3	2.7	4.0	5.4	6.7	8.0	9.3	10.7	12.8	14.8
72.5°	0.0	1.6	3.1	4.7	6.2	7.8	9.3	11.0	13.5	15.9	18.3
70°	0.0	1.8	3.6	5.3	7.1	8.8	10.7	13.5	16.3	19.1	21.8
67.5°	0.0	2.0	4.0	6.0	7.9	9.9	12.8	15.9	19.1	22.2	25.2
65°	0.0	2.2	4.4	6.6	8.8	11.3	14.8	18.3	21.8	25.2	30.8
62.5°	0.0	2.4	4.8	7.2	9.6	12.9	16.8	20.7	24.5	29.6	41.4
60°	0.0	2.6	5.2	7.8	10.4	14.6	18.8	22.9	27.1	39.0	51.9
57.5°	0.0	2.8	5.6	8.4	11.6	16.2	20.7	25.2	34.1	48.2	72.0
55°	0.0	3.0	6.0	8.9	12.9	17.7	22.6	27.4	42.1	60.0	96.3
52.5°	0.0	3.2	6.3	9.5	14.1	19.2	24.4	33.6	49.9	81.4	120.0
50°	0.0	3.3	6.7	10.0	15.2	20.7	26.1	40.2	60.6	102.0	150.9
47.5°	0.0	3.5	7.0	10.6	16.4	22.1	28.4	46.6	78.3	122.0	181.8
45°	0.0	3.7	7.3	11.4	17.5	23.5	33.6	52.7	95.5	148.6	211.5
42.5°	0.0	3.8	7.7	12.2	18.5	24.8	38.6	63.5	111.9	174.3	257.3
40°	0.0	4.0	8.0	12.9	19.5	26.0	43.4	77.2	129.5	198.8	303.9
37.5°	0.0	4.1	8.2	13.6	20.4	27.2	48.0	90.2	150.2	226.8	348.4
35°	0.0	4.3	8.5	14.3	21.3	29.9	52.3	102.6	169.9	264.5	397.6
32.5°	0.0	4.4	8.8	14.9	22.2	33.3	58.1	114.2	188.3	300.1	454.7
30°	0.0	4.5	9.0	15.5	23.0	36.5	67.4	126.0	205.6	333.4	508.2
27.5°	0.0	4.6	9.2	16.1	23.7	39.4	76.0	140.0	225.9	364.4	558.0
25°	0.0	4.7	9.4	16.6	24.3	42.1	83.9	152.9	251.1	401.1	604.4
22.5°	0.0	4.8	9.6	17.0	25.0	44.5	91.1	164.6	274.1	438.6	655.0
20°	0.0	4.9	9.8	17.4	25.5	46.8	97.6	175.2	294.9	472.4	700.7
17.5°	0.0	5.0	9.9	17.8	26.0	48.7	103.4	184.6	313.3	502.4	741.4
15°	0.0	5.0	10.0	18.1	26.4	50.4	108.4	192.8	329.4	528.7	776.9
12.5°	0.0	5.1	10.2	18.4	26.8	51.9	112.7	199.8	343.1	551.0	807.1
10°	0.0	5.1	10.2	18.6	27.1	53.1	116.2	205.5	354.3	569.3	831.9
7.5°	0.0	5.2	10.3	18.8	27.3	54.0	119.0	209.9	363.1	583.6	851.3
5°	0.0	5.2	10.4	18.9	27.5	54.7	120.9	213.1	369.4	593.9	865.2
2.5°	0.0	5.2	10.4	19.0	27.6	55.1	122.1	215.1	373.1	600.0	873.6
0°	0.0	5.2	10.4	19.0	27.6	55.1	122.1	215.1	373.1	600.0	873.6
-2.5°	0.0	5.2	10.4	19.0	27.6	55.1	122.1	215.1	373.1	600.0	873.6
-5°	0.0	5.2	10.4	18.9	27.5	54.7	120.9	213.1	369.4	593.9	865.2
-7.5°	0.0	5.2	10.3	18.8	27.3	54.0	119.0	209.9	363.1	583.6	851.3
-10°	0.0	5.1	10.2	18.6	27.1	53.1	116.2	205.5	354.3	569.3	831.9
-12.5°	0.0	5.1	10.2	18.4	26.8	51.9	112.7	199.8	343.1	551.0	807.1
-15°	0.0	5.0	10.0	18.1	26.4	50.4	108.4	192.8	329.4	528.7	776.9
-17.5°	0.0	5.0	9.9	17.8	26.0	48.7	103.4	184.6	313.3	502.4	741.4
-20°	0.0	4.9	9.8	17.4	25.5	46.8	97.6	175.2	294.9	472.4	700.7



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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	4.8	9.6	17.0	25.0	44.5	91.1	164.6	274.1	438.6	655.0
-25°	0.0	4.7	9.4	16.6	24.3	42.1	83.9	152.9	251.1	401.1	604.4
-27.5°	0.0	4.6	9.2	16.1	23.7	39.4	76.0	140.0	225.9	364.4	558.0
-30°	0.0	4.5	9.0	15.5	23.0	36.5	67.4	126.0	205.6	333.4	508.2
-32.5°	0.0	4.4	8.8	14.9	22.2	33.3	58.1	114.2	188.3	300.1	454.7
-35°	0.0	4.3	8.5	14.3	21.3	29.9	52.3	102.6	169.9	264.5	397.6
-37.5°	0.0	4.1	8.2	13.6	20.4	27.2	48.0	90.2	150.2	226.8	348.4
-40°	0.0	4.0	8.0	12.9	19.5	26.0	43.4	77.2	129.5	198.8	303.9
-42.5°	0.0	3.8	7.7	12.2	18.5	24.8	38.6	63.5	111.9	174.3	257.3
-45°	0.0	3.7	7.3	11.4	17.5	23.5	33.6	52.7	95.5	148.6	211.5
-47.5°	0.0	3.5	7.0	10.6	16.4	22.1	28.4	46.6	78.3	122.0	181.8
-50°	0.0	3.3	6.7	10.0	15.2	20.7	26.1	40.2	60.6	102.0	150.9
-52.5°	0.0	3.2	6.3	9.5	14.1	19.2	24.4	33.6	49.9	81.4	120.0
-55°	0.0	3.0	6.0	8.9	12.9	17.7	22.6	27.4	42.1	60.0	96.3
-57.5°	0.0	2.8	5.6	8.4	11.6	16.2	20.7	25.2	34.1	48.2	72.0
-60°	0.0	2.6	5.2	7.8	10.4	14.6	18.8	22.9	27.1	39.0	51.9
-62.5°	0.0	2.4	4.8	7.2	9.6	12.9	16.8	20.7	24.5	29.6	41.4
-65°	0.0	2.2	4.4	6.6	8.8	11.3	14.8	18.3	21.8	25.2	30.8
-67.5°	0.0	2.0	4.0	6.0	7.9	9.9	12.8	15.9	19.1	22.2	25.2
-70°	0.0	1.8	3.6	5.3	7.1	8.8	10.7	13.5	16.3	19.1	21.8
-72.5°	0.0	1.6	3.1	4.7	6.2	7.8	9.3	11.0	13.5	15.9	18.3
-75°	0.0	1.3	2.7	4.0	5.4	6.7	8.0	9.3	10.7	12.8	14.8
-77.5°	0.0	1.1	2.2	3.4	4.5	5.6	6.7	7.8	8.8	9.9	11.3
-80°	0.0	0.9	1.8	2.7	3.6	4.5	5.4	6.2	7.1	7.9	8.8
-82.5°	0.0	0.7	1.4	2.0	2.7	3.4	4.0	4.7	5.3	6.0	6.6
-85°	0.0	0.5	0.9	1.4	1.8	2.2	2.7	3.1	3.6	4.0	4.4
-87.5°	0.0	0.2	0.5	0.7	0.9	1.1	1.3	1.6	1.8	2.0	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):

	-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°	2.4	2.6	2.8	3.0	3.2	3.3	3.5	3.7	3.8	4.0	4.1
85°	4.8	5.2	5.6	6.0	6.3	6.7	7.0	7.3	7.7	8.0	8.2
82.5°	7.2	7.8	8.4	8.9	9.5	10.0	10.6	11.4	12.2	12.9	13.6
80°	9.6	10.4	11.6	12.9	14.1	15.2	16.4	17.5	18.5	19.5	20.4
77.5°	12.9	14.6	16.2	17.7	19.2	20.7	22.1	23.5	24.8	26.0	27.2
75°	16.8	18.8	20.7	22.6	24.4	26.1	28.4	33.6	38.6	43.4	48.0
72.5°	20.7	22.9	25.2	27.4	33.6	40.2	46.6	52.7	63.5	77.2	90.2
70°	24.5	27.1	34.1	42.1	49.9	60.6	78.3	95.5	111.9	129.5	150.2
67.5°	29.6	39.0	48.2	60.0	81.4	102.0	122.0	148.6	174.3	198.8	226.8
65°	41.4	51.9	72.0	96.3	120.0	150.9	181.8	211.5	257.3	303.9	348.4
62.5°	53.1	78.0	105.4	135.8	171.9	207.0	258.7	314.5	368.3	439.5	510.1
60°	78.0	108.4	144.3	184.6	229.7	294.9	358.1	438.6	523.0	604.4	697.6
57.5°	105.4	144.3	188.8	244.2	316.8	393.0	491.4	586.5	693.9	800.2	904.6
55°	135.8	184.6	244.2	324.1	414.2	523.3	634.9	758.7	878.5	1006.5	1129.0
52.5°	171.9	229.7	316.8	414.2	534.0	660.9	797.9	937.1	1080.2	1216.6	1343.6
50°	207.0	294.9	393.0	523.3	660.9	811.1	966.6	1124.9	1274.3	1416.3	1534.4
47.5°	258.7	358.1	491.4	634.9	797.9	966.6	1139.8	1303.4	1460.3	1579.8	1691.4
45°	314.5	438.6	586.5	758.7	937.1	1124.9	1303.4	1475.1	1602.7	1720.2	1812.6
42.5°	368.3	523.0	693.9	878.5	1080.2	1274.3	1460.3	1602.7	1729.2	1831.0	1947.4
40°	439.5	604.4	800.2	1006.5	1216.6	1416.3	1579.8	1720.2	1831.0	1959.9	2098.1
37.5°	510.1	697.6	904.6	1129.0	1343.6	1534.4	1691.4	1812.6	1947.4	2098.1	2301.4
35°	577.0	786.2	1012.3	1243.3	1464.8	1634.1	1776.2	1910.3	2072.8	2283.1	2493.0
32.5°	648.1	870.0	1114.1	1349.6	1555.1	1722.3	1855.3	2022.6	2228.6	2459.6	2664.0
30°	719.6	956.9	1208.9	1449.8	1638.1	1791.8	1948.5	2139.0	2389.2	2612.9	2866.3
27.5°	786.2	1038.6	1294.8	1527.3	1712.1	1857.1	2041.7	2280.2	2529.1	2771.1	3078.9
25°	847.8	1114.1	1374.3	1593.6	1768.1	1932.1	2138.2	2412.1	2655.8	2957.8	4099.3
22.5°	907.2	1183.2	1447.2	1654.5	1819.6	2006.1	2251.1	2523.0	2792.0	3173.7	5264.0
20°	963.8	1243.3	1504.2	1707.4	1866.3	2073.3	2353.8	2622.3	2939.2	4167.4	6729.1
17.5°	1014.2	1296.8	1549.2	1745.7	1919.2	2145.3	2444.3	2711.5	3071.7	5063.9	8239.8
15°	1058.2	1343.6	1588.6	1779.2	1967.7	2219.8	2516.7	2815.3	3534.5	5983.9	9586.3
12.5°	1095.7	1383.5	1622.1	1807.8	2009.2	2283.5	2578.7	2907.8	4163.7	7049.6	10951.4
10°	1126.6	1416.3	1649.8	1831.4	2043.4	2336.2	2630.0	2984.5	4685.5	7935.0	12088.1
7.5°	1150.7	1441.9	1671.4	1849.8	2070.2	2377.4	2670.3	3044.6	5095.9	8632.4	12985.2
5°	1167.9	1460.3	1686.9	1863.1	2089.4	2407.1	2699.2	3088.0	5391.6	9135.5	13633.1
2.5°	1178.3	1471.4	1696.3	1871.0	2101.0	2424.9	2716.7	3114.1	5570.0	9439.3	14024.9
0°	1181.8	1475.1	1699.4	1873.7	2104.9	2430.9	2722.5	3122.8	5629.6	9540.9	14156.0
-2.5°	1178.3	1471.4	1696.3	1871.0	2101.0	2424.9	2716.7	3114.1	5570.0	9439.3	14024.9
-5°	1167.9	1460.3	1686.9	1863.1	2089.4	2407.1	2699.2	3088.0	5391.6	9135.5	13633.1
-7.5°	1150.7	1441.9	1671.4	1849.8	2070.2	2377.4	2670.3	3044.6	5095.9	8632.4	12985.2
-10°	1126.6	1416.3	1649.8	1831.4	2043.4	2336.2	2630.0	2984.5	4685.5	7935.0	12088.1
-12.5°	1095.7	1383.5	1622.1	1807.8	2009.2	2283.5	2578.7	2907.8	4163.7	7049.6	10951.4
-15°	1058.2	1343.6	1588.6	1779.2	1967.7	2219.8	2516.7	2815.3	3534.5	5983.9	9586.3
-17.5°	1014.2	1296.8	1549.2	1745.7	1919.2	2145.3	2444.3	2711.5	3071.7	5063.9	8239.8
-20°	963.8	1243.3	1504.2	1707.4	1866.3	2073.3	2353.8	2622.3	2939.2	4167.4	6729.1



REPORT NUMBER: P731303 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	907.2	1183.2	1447.2	1654.5	1819.6	2006.1	2251.1	2523.0	2792.0	3173.7	5264.0
-25°	847.8	1114.1	1374.3	1593.6	1768.1	1932.1	2138.2	2412.1	2655.8	2957.8	4099.3
-27.5°	786.2	1038.6	1294.8	1527.3	1712.1	1857.1	2041.7	2280.2	2529.1	2771.1	3078.9
-30°	719.6	956.9	1208.9	1449.8	1638.1	1791.8	1948.5	2139.0	2389.2	2612.9	2866.3
-32.5°	648.1	870.0	1114.1	1349.6	1555.1	1722.3	1855.3	2022.6	2228.6	2459.6	2664.0
-35°	577.0	786.2	1012.3	1243.3	1464.8	1634.1	1776.2	1910.3	2072.8	2283.1	2493.0
-37.5°	510.1	697.6	904.6	1129.0	1343.6	1534.4	1691.4	1812.6	1947.4	2098.1	2301.4
-40°	439.5	604.4	800.2	1006.5	1216.6	1416.3	1579.8	1720.2	1831.0	1959.9	2098.1
-42.5°	368.3	523.0	693.9	878.5	1080.2	1274.3	1460.3	1602.7	1729.2	1831.0	1947.4
-45°	314.5	438.6	586.5	758.7	937.1	1124.9	1303.4	1475.1	1602.7	1720.2	1812.6
-47.5°	258.7	358.1	491.4	634.9	797.9	966.6	1139.8	1303.4	1460.3	1579.8	1691.4
-50°	207.0	294.9	393.0	523.3	660.9	811.1	966.6	1124.9	1274.3	1416.3	1534.4
-52.5°	171.9	229.7	316.8	414.2	534.0	660.9	797.9	937.1	1080.2	1216.6	1343.6
-55°	135.8	184.6	244.2	324.1	414.2	523.3	634.9	758.7	878.5	1006.5	1129.0
-57.5°	105.4	144.3	188.8	244.2	316.8	393.0	491.4	586.5	693.9	800.2	904.6
-60°	78.0	108.4	144.3	184.6	229.7	294.9	358.1	438.6	523.0	604.4	697.6
-62.5°	53.1	78.0	105.4	135.8	171.9	207.0	258.7	314.5	368.3	439.5	510.1
-65°	41.4	51.9	72.0	96.3	120.0	150.9	181.8	211.5	257.3	303.9	348.4
-67.5°	29.6	39.0	48.2	60.0	81.4	102.0	122.0	148.6	174.3	198.8	226.8
-70°	24.5	27.1	34.1	42.1	49.9	60.6	78.3	95.5	111.9	129.5	150.2
-72.5°	20.7	22.9	25.2	27.4	33.6	40.2	46.6	52.7	63.5	77.2	90.2
-75°	16.8	18.8	20.7	22.6	24.4	26.1	28.4	33.6	38.6	43.4	48.0
-77.5°	12.9	14.6	16.2	17.7	19.2	20.7	22.1	23.5	24.8	26.0	27.2
-80°	9.6	10.4	11.6	12.9	14.1	15.2	16.4	17.5	18.5	19.5	20.4
-82.5°	7.2	7.8	8.4	8.9	9.5	10.0	10.6	11.4	12.2	12.9	13.6
-85°	4.8	5.2	5.6	6.0	6.3	6.7	7.0	7.3	7.7	8.0	8.2
-87.5°	2.4	2.6	2.8	3.0	3.2	3.3	3.5	3.7	3.8	4.0	4.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731303 (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°	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.0	5.1	5.1
85°	8.5	8.8	9.0	9.2	9.4	9.6	9.8	9.9	10.0	10.2	10.2
82.5°	14.3	14.9	15.5	16.1	16.6	17.0	17.4	17.8	18.1	18.4	18.6
80°	21.3	22.2	23.0	23.7	24.3	25.0	25.5	26.0	26.4	26.8	27.1
77.5°	29.9	33.3	36.5	39.4	42.1	44.5	46.8	48.7	50.4	51.9	53.1
75°	52.3	58.1	67.4	76.0	83.9	91.1	97.6	103.4	108.4	112.7	116.2
72.5°	102.6	114.2	126.0	140.0	152.9	164.6	175.2	184.6	192.8	199.8	205.5
70°	169.9	188.3	205.6	225.9	251.1	274.1	294.9	313.3	329.4	343.1	354.3
67.5°	264.5	300.1	333.4	364.4	401.1	438.6	472.4	502.4	528.7	551.0	569.3
65°	397.6	454.7	508.2	558.0	604.4	655.0	700.7	741.4	776.9	807.1	831.9
62.5°	577.0	648.1	719.6	786.2	847.8	907.2	963.8	1014.2	1058.2	1095.7	1126.6
60°	786.2	870.0	956.9	1038.6	1114.1	1183.2	1243.3	1296.8	1343.6	1383.5	1416.3
57.5°	1012.3	1114.1	1208.9	1294.8	1374.3	1447.2	1504.2	1549.2	1588.6	1622.1	1649.8
55°	1243.3	1349.6	1449.8	1527.3	1593.6	1654.5	1707.4	1745.7	1779.2	1807.8	1831.4
52.5°	1464.8	1555.1	1638.1	1712.1	1768.1	1819.6	1866.3	1919.2	1967.7	2009.2	2043.4
50°	1634.1	1722.3	1791.8	1857.1	1932.1	2006.1	2073.3	2145.3	2219.8	2283.5	2336.2
47.5°	1776.2	1855.3	1948.5	2041.7	2138.2	2251.1	2353.8	2444.3	2516.7	2578.7	2630.0
45°	1910.3	2022.6	2139.0	2280.2	2412.1	2523.0	2622.3	2711.5	2815.3	2907.8	2984.5
42.5°	2072.8	2228.6	2389.2	2529.1	2655.8	2792.0	2939.2	3071.7	3534.5	4163.7	4685.5
40°	2283.1	2459.6	2612.9	2771.1	2957.8	3173.7	4167.4	5063.9	5983.9	7049.6	7935.0
37.5°	2493.0	2664.0	2866.3	3078.9	4099.3	5264.0	6729.1	8239.8	9586.3	10951.4	12088.1
35°	2681.1	2914.4	3310.0	4729.0	6312.7	8262.2	10152.9	12077.7	13789.7	15385.6	16749.2
32.5°	2914.4	3465.3	5047.8	7078.1	9308.1	11731.5	14012.9	16287.1	18330.2	20232.1	21935.6
30°	3310.0	5047.8	7335.5	9892.0	12697.8	15457.1	18158.5	20832.0	23369.6	25669.8	27835.7
27.5°	4729.0	7078.1	9892.0	13023.2	16198.5	19317.7	22642.5	25803.6	29007.3	31817.4	34709.7
25°	6312.7	9308.1	12697.8	16198.5	19761.7	23565.3	27474.5	31314.9	35447.3	39193.7	43682.1
22.5°	8262.2	11731.5	15457.1	19317.7	23565.3	28039.5	32641.7	37700.3	43590.0	50032.8	56529.8
20°	10152.9	14012.9	18158.5	22642.5	27474.5	32641.7	38464.5	46112.7	54380.6	64230.8	73259.3
17.5°	12077.7	16287.1	20832.0	25803.6	31314.9	37700.3	46112.7	56263.4	68223.4	81557.8	93985.3
15°	13789.7	18330.2	23369.6	29007.3	35447.3	43590.0	54380.6	68223.4	84404.1	101723.8	119882.9
12.5°	15385.6	20232.1	25669.8	31817.4	39193.7	50032.8	64230.8	81557.8	101723.8	124293.3	140993.1
10°	16749.2	21935.6	27835.7	34709.7	43682.1	56529.8	73259.3	93985.3	119882.9	140993.1	158198.8
7.5°	17827.7	23286.8	29559.5	37023.5	47696.3	62739.0	82366.7	107163.6	133274.5	154427.2	171343.7
5°	18608.2	24266.7	30813.0	38712.0	50638.6	67316.6	89133.0	117227.1	142635.5	163639.8	180718.9
2.5°	19080.6	24860.8	31574.5	39740.2	52436.0	70124.9	93308.2	123488.0	148529.4	169292.9	186724.0
0°	19238.8	25059.9	31829.9	40085.5	53040.7	71071.8	94720.4	125615.2	150545.7	171167.3	188847.2
-2.5°	19080.6	24860.8	31574.5	39740.2	52436.0	70124.9	93308.2	123488.0	148529.4	169292.9	186724.0
-5°	18608.2	24266.7	30813.0	38712.0	50638.6	67316.6	89133.0	117227.1	142635.5	163639.8	180718.9
-7.5°	17827.7	23286.8	29559.5	37023.5	47696.3	62739.0	82366.7	107163.6	133274.5	154427.2	171343.7
-10°	16749.2	21935.6	27835.7	34709.7	43682.1	56529.8	73259.3	93985.3	119882.9	140993.1	158198.8
-12.5°	15385.6	20232.1	25669.8	31817.4	39193.7	50032.8	64230.8	81557.8	101723.8	124293.3	140993.1
-15°	13789.7	18330.2	23369.6	29007.3	35447.3	43590.0	54380.6	68223.4	84404.1	101723.8	119882.9
-17.5°	12077.7	16287.1	20832.0	25803.6	31314.9	37700.3	46112.7	56263.4	68223.4	81557.8	93985.3
-20°	10152.9	14012.9	18158.5	22642.5	27474.5	32641.7	38464.5	46112.7	54380.6	64230.8	73259.3



REPORT NUMBER: P731303 (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°	8262.2	11731.5	15457.1	19317.7	23565.3	28039.5	32641.7	37700.3	43590.0	50032.8	56529.8
-25°	6312.7	9308.1	12697.8	16198.5	19761.7	23565.3	27474.5	31314.9	35447.3	39193.7	43682.1
-27.5°	4729.0	7078.1	9892.0	13023.2	16198.5	19317.7	22642.5	25803.6	29007.3	31817.4	34709.7
-30°	3310.0	5047.8	7335.5	9892.0	12697.8	15457.1	18158.5	20832.0	23369.6	25669.8	27835.7
-32.5°	2914.4	3465.3	5047.8	7078.1	9308.1	11731.5	14012.9	16287.1	18330.2	20232.1	21935.6
-35°	2681.1	2914.4	3310.0	4729.0	6312.7	8262.2	10152.9	12077.7	13789.7	15385.6	16749.2
-37.5°	2493.0	2664.0	2866.3	3078.9	4099.3	5264.0	6729.1	8239.8	9586.3	10951.4	12088.1
-40°	2283.1	2459.6	2612.9	2771.1	2957.8	3173.7	4167.4	5063.9	5983.9	7049.6	7935.0
-42.5°	2072.8	2228.6	2389.2	2529.1	2655.8	2792.0	2939.2	3071.7	3534.5	4163.7	4685.5
-45°	1910.3	2022.6	2139.0	2280.2	2412.1	2523.0	2622.3	2711.5	2815.3	2907.8	2984.5
-47.5°	1776.2	1855.3	1948.5	2041.7	2138.2	2251.1	2353.8	2444.3	2516.7	2578.7	2630.0
-50°	1634.1	1722.3	1791.8	1857.1	1932.1	2006.1	2073.3	2145.3	2219.8	2283.5	2336.2
-52.5°	1464.8	1555.1	1638.1	1712.1	1768.1	1819.6	1866.3	1919.2	1967.7	2009.2	2043.4
-55°	1243.3	1349.6	1449.8	1527.3	1593.6	1654.5	1707.4	1745.7	1779.2	1807.8	1831.4
-57.5°	1012.3	1114.1	1208.9	1294.8	1374.3	1447.2	1504.2	1549.2	1588.6	1622.1	1649.8
-60°	786.2	870.0	956.9	1038.6	1114.1	1183.2	1243.3	1296.8	1343.6	1383.5	1416.3
-62.5°	577.0	648.1	719.6	786.2	847.8	907.2	963.8	1014.2	1058.2	1095.7	1126.6
-65°	397.6	454.7	508.2	558.0	604.4	655.0	700.7	741.4	776.9	807.1	831.9
-67.5°	264.5	300.1	333.4	364.4	401.1	438.6	472.4	502.4	528.7	551.0	569.3
-70°	169.9	188.3	205.6	225.9	251.1	274.1	294.9	313.3	329.4	343.1	354.3
-72.5°	102.6	114.2	126.0	140.0	152.9	164.6	175.2	184.6	192.8	199.8	205.5
-75°	52.3	58.1	67.4	76.0	83.9	91.1	97.6	103.4	108.4	112.7	116.2
-77.5°	29.9	33.3	36.5	39.4	42.1	44.5	46.8	48.7	50.4	51.9	53.1
-80°	21.3	22.2	23.0	23.7	24.3	25.0	25.5	26.0	26.4	26.8	27.1
-82.5°	14.3	14.9	15.5	16.1	16.6	17.0	17.4	17.8	18.1	18.4	18.6
-85°	8.5	8.8	9.0	9.2	9.4	9.6	9.8	9.9	10.0	10.2	10.2
-87.5°	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.0	5.1	5.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731303 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-80-4S-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°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.1	5.1	5.0	5.0
85°	10.3	10.4	10.4	10.4	10.4	10.4	10.3	10.2	10.2	10.0	9.9
82.5°	18.8	18.9	19.0	19.0	19.0	18.9	18.8	18.6	18.4	18.1	17.8
80°	27.3	27.5	27.6	27.6	27.6	27.5	27.3	27.1	26.8	26.4	26.0
77.5°	54.0	54.7	55.1	55.2	55.1	54.7	54.0	53.1	51.9	50.4	48.7
75°	119.0	120.9	122.1	122.5	122.1	120.9	119.0	116.2	112.7	108.4	103.4
72.5°	209.9	213.1	215.1	215.7	215.1	213.1	209.9	205.5	199.8	192.8	184.6
70°	363.1	369.4	373.1	374.4	373.1	369.4	363.1	354.3	343.1	329.4	313.3
67.5°	583.6	593.9	600.0	602.1	600.0	593.9	583.6	569.3	551.0	528.7	502.4
65°	851.3	865.2	873.6	876.4	873.6	865.2	851.3	831.9	807.1	776.9	741.4
62.5°	1150.7	1167.9	1178.3	1181.8	1178.3	1167.9	1150.7	1126.6	1095.7	1058.2	1014.2
60°	1441.9	1460.3	1471.4	1475.1	1471.4	1460.3	1441.9	1416.3	1383.5	1343.6	1296.8
57.5°	1671.4	1686.9	1696.3	1699.4	1696.3	1686.9	1671.4	1649.8	1622.1	1588.6	1549.2
55°	1849.8	1863.1	1871.0	1873.7	1871.0	1863.1	1849.8	1831.4	1807.8	1779.2	1745.7
52.5°	2070.2	2089.4	2101.0	2104.9	2101.0	2089.4	2070.2	2043.4	2009.2	1967.7	1919.2
50°	2377.4	2407.1	2424.9	2430.9	2424.9	2407.1	2377.4	2336.2	2283.5	2219.8	2145.3
47.5°	2670.3	2699.2	2716.7	2722.5	2716.7	2699.2	2670.3	2630.0	2578.7	2516.7	2444.3
45°	3044.6	3088.0	3114.1	3122.8	3114.1	3088.0	3044.6	2984.5	2907.8	2815.3	2711.5
42.5°	5095.9	5391.6	5570.0	5629.6	5570.0	5391.6	5095.9	4685.5	4163.7	3534.5	3071.7
40°	8632.4	9135.5	9439.3	9540.9	9439.3	9135.5	8632.4	7935.0	7049.6	5983.9	5063.9
37.5°	12985.2	13633.1	14024.9	14156.0	14024.9	13633.1	12985.2	12088.1	10951.4	9586.3	8239.8
35°	17827.7	18608.2	19080.6	19238.8	19080.6	18608.2	17827.7	16749.2	15385.6	13789.7	12077.7
32.5°	23286.8	24266.7	24860.8	25059.9	24860.8	24266.7	23286.8	21935.6	20232.1	18330.2	16287.1
30°	29559.5	30813.0	31574.5	31829.9	31574.5	30813.0	29559.5	27835.7	25669.8	23369.6	20832.0
27.5°	37023.5	38712.0	39740.2	40085.5	39740.2	38712.0	37023.5	34709.7	31817.4	29007.3	25803.6
25°	47696.3	50638.6	52436.0	53040.7	52436.0	50638.6	47696.3	43682.1	39193.7	35447.3	31314.9
22.5°	62739.0	67316.6	70124.9	71071.8	70124.9	67316.6	62739.0	56529.8	50032.8	43590.0	37700.3
20°	82366.7	89133.0	93308.2	94720.4	93308.2	89133.0	82366.7	73259.3	64230.8	54380.6	46112.7
17.5°	107163.6	117227.1	123488.0	125615.2	123488.0	117227.1	107163.6	93985.3	81557.8	68223.4	56263.4
15°	133274.5	142635.5	148529.4	150545.7	148529.4	142635.5	133274.5	119882.9	101723.8	84404.1	68223.4
12.5°	154427.2	163639.8	169292.9	171167.3	169292.9	163639.8	154427.2	140993.1	124293.3	101723.8	81557.8
10°	171343.7	180718.9	186724.0	188847.2	186724.0	180718.9	171343.7	158198.8	140993.1	119882.9	93985.3
7.5°	184726.0	195307.8	201717.0	203997.9	201717.0	195307.8	184726.0	171343.7	154427.2	133274.5	107163.6
5°	195307.8	206448.4	214034.3	216703.8	214034.3	206448.4	195307.8	180718.9	163639.8	142635.5	117227.1
2.5°	201717.0	214034.3	221362.4	223467.8	221362.4	214034.3	201717.0	186724.0	169292.9	148529.4	123488.0
0°	203997.9	216703.8	223467.8	224426.2	223467.8	216703.8	203997.9	188847.2	171167.3	150545.7	125615.2
-2.5°	201717.0	214034.3	221362.4	223467.8	221362.4	214034.3	201717.0	186724.0	169292.9	148529.4	123488.0
-5°	195307.8	206448.4	214034.3	216703.8	214034.3	206448.4	195307.8	180718.9	163639.8	142635.5	117227.1
-7.5°	184726.0	195307.8	201717.0	203997.9	201717.0	195307.8	184726.0	171343.7	154427.2	133274.5	107163.6
-10°	171343.7	180718.9	186724.0	188847.2	186724.0	180718.9	171343.7	158198.8	140993.1	119882.9	93985.3
-12.5°	154427.2	163639.8	169292.9	171167.3	169292.9	163639.8	154427.2	140993.1	124293.3	101723.8	81557.8
-15°	133274.5	142635.5	148529.4	150545.7	148529.4	142635.5	133274.5	119882.9	101723.8	84404.1	68223.4
-17.5°	107163.6	117227.1	123488.0	125615.2	123488.0	117227.1	107163.6	93985.3	81557.8	68223.4	56263.4
-20°	82366.7	89133.0	93308.2	94720.4	93308.2	89133.0	82366.7	73259.3	64230.8	54380.6	46112.7



REPORT NUMBER: P731303 (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°	62739.0	67316.6	70124.9	71071.8	70124.9	67316.6	62739.0	56529.8	50032.8	43590.0	37700.3
-25°	47696.3	50638.6	52436.0	53040.7	52436.0	50638.6	47696.3	43682.1	39193.7	35447.3	31314.9
-27.5°	37023.5	38712.0	39740.2	40085.5	39740.2	38712.0	37023.5	34709.7	31817.4	29007.3	25803.6
-30°	29559.5	30813.0	31574.5	31829.9	31574.5	30813.0	29559.5	27835.7	25669.8	23369.6	20832.0
-32.5°	23286.8	24266.7	24860.8	25059.9	24860.8	24266.7	23286.8	21935.6	20232.1	18330.2	16287.1
-35°	17827.7	18608.2	19080.6	19238.8	19080.6	18608.2	17827.7	16749.2	15385.6	13789.7	12077.7
-37.5°	12985.2	13633.1	14024.9	14156.0	14024.9	13633.1	12985.2	12088.1	10951.4	9586.3	8239.8
-40°	8632.4	9135.5	9439.3	9540.9	9439.3	9135.5	8632.4	7935.0	7049.6	5983.9	5063.9
-42.5°	5095.9	5391.6	5570.0	5629.6	5570.0	5391.6	5095.9	4685.5	4163.7	3534.5	3071.7
-45°	3044.6	3088.0	3114.1	3122.8	3114.1	3088.0	3044.6	2984.5	2907.8	2815.3	2711.5
-47.5°	2670.3	2699.2	2716.7	2722.5	2716.7	2699.2	2670.3	2630.0	2578.7	2516.7	2444.3
-50°	2377.4	2407.1	2424.9	2430.9	2424.9	2407.1	2377.4	2336.2	2283.5	2219.8	2145.3
-52.5°	2070.2	2089.4	2101.0	2104.9	2101.0	2089.4	2070.2	2043.4	2009.2	1967.7	1919.2
-55°	1849.8	1863.1	1871.0	1873.7	1871.0	1863.1	1849.8	1831.4	1807.8	1779.2	1745.7
-57.5°	1671.4	1686.9	1696.3	1699.4	1696.3	1686.9	1671.4	1649.8	1622.1	1588.6	1549.2
-60°	1441.9	1460.3	1471.4	1475.1	1471.4	1460.3	1441.9	1416.3	1383.5	1343.6	1296.8
-62.5°	1150.7	1167.9	1178.3	1181.8	1178.3	1167.9	1150.7	1126.6	1095.7	1058.2	1014.2
-65°	851.3	865.2	873.6	876.4	873.6	865.2	851.3	831.9	807.1	776.9	741.4
-67.5°	583.6	593.9	600.0	602.1	600.0	593.9	583.6	569.3	551.0	528.7	502.4
-70°	363.1	369.4	373.1	374.4	373.1	369.4	363.1	354.3	343.1	329.4	313.3
-72.5°	209.9	213.1	215.1	215.7	215.1	213.1	209.9	205.5	199.8	192.8	184.6
-75°	119.0	120.9	122.1	122.5	122.1	120.9	119.0	116.2	112.7	108.4	103.4
-77.5°	54.0	54.7	55.1	55.2	55.1	54.7	54.0	53.1	51.9	50.4	48.7
-80°	27.3	27.5	27.6	27.6	27.6	27.5	27.3	27.1	26.8	26.4	26.0
-82.5°	18.8	18.9	19.0	19.0	19.0	18.9	18.8	18.6	18.4	18.1	17.8
-85°	10.3	10.4	10.4	10.4	10.4	10.4	10.3	10.2	10.2	10.0	9.9
-87.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.1	5.1	5.0	5.0
-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°	4.9	4.8	4.7	4.6	4.5	4.4	4.3	4.1	4.0	3.8	3.7
85°	9.8	9.6	9.4	9.2	9.0	8.8	8.5	8.2	8.0	7.7	7.3
82.5°	17.4	17.0	16.6	16.1	15.5	14.9	14.3	13.6	12.9	12.2	11.4
80°	25.5	25.0	24.3	23.7	23.0	22.2	21.3	20.4	19.5	18.5	17.5
77.5°	46.8	44.5	42.1	39.4	36.5	33.3	29.9	27.2	26.0	24.8	23.5
75°	97.6	91.1	83.9	76.0	67.4	58.1	52.3	48.0	43.4	38.6	33.6
72.5°	175.2	164.6	152.9	140.0	126.0	114.2	102.6	90.2	77.2	63.5	52.7
70°	294.9	274.1	251.1	225.9	205.6	188.3	169.9	150.2	129.5	111.9	95.5
67.5°	472.4	438.6	401.1	364.4	333.4	300.1	264.5	226.8	198.8	174.3	148.6
65°	700.7	655.0	604.4	558.0	508.2	454.7	397.6	348.4	303.9	257.3	211.5
62.5°	963.8	907.2	847.8	786.2	719.6	648.1	577.0	510.1	439.5	368.3	314.5
60°	1243.3	1183.2	1114.1	1038.6	956.9	870.0	786.2	697.6	604.4	523.0	438.6
57.5°	1504.2	1447.2	1374.3	1294.8	1208.9	1114.1	1012.3	904.6	800.2	693.9	586.5
55°	1707.4	1654.5	1593.6	1527.3	1449.8	1349.6	1243.3	1129.0	1006.5	878.5	758.7
52.5°	1866.3	1819.6	1768.1	1712.1	1638.1	1555.1	1464.8	1343.6	1216.6	1080.2	937.1
50°	2073.3	2006.1	1932.1	1857.1	1791.8	1722.3	1634.1	1534.4	1416.3	1274.3	1124.9
47.5°	2353.8	2251.1	2138.2	2041.7	1948.5	1855.3	1776.2	1691.4	1579.8	1460.3	1303.4
45°	2622.3	2523.0	2412.1	2280.2	2139.0	2022.6	1910.3	1812.6	1720.2	1602.7	1475.1
42.5°	2939.2	2792.0	2655.8	2529.1	2389.2	2228.6	2072.8	1947.4	1831.0	1729.2	1602.7
40°	4167.4	3173.7	2957.8	2771.1	2612.9	2459.6	2283.1	2098.1	1959.9	1831.0	1720.2
37.5°	6729.1	5264.0	4099.3	3078.9	2866.3	2664.0	2493.0	2301.4	2098.1	1947.4	1812.6
35°	10152.9	8262.2	6312.7	4729.0	3310.0	2914.4	2681.1	2493.0	2283.1	2072.8	1910.3
32.5°	14012.9	11731.5	9308.1	7078.1	5047.8	3465.3	2914.4	2664.0	2459.6	2228.6	2022.6
30°	18158.5	15457.1	12697.8	9892.0	7335.5	5047.8	3310.0	2866.3	2612.9	2389.2	2139.0
27.5°	22642.5	19317.7	16198.5	13023.2	9892.0	7078.1	4729.0	3078.9	2771.1	2529.1	2280.2
25°	27474.5	23565.3	19761.7	16198.5	12697.8	9308.1	6312.7	4099.3	2957.8	2655.8	2412.1
22.5°	32641.7	28039.5	23565.3	19317.7	15457.1	11731.5	8262.2	5264.0	3173.7	2792.0	2523.0
20°	38464.5	32641.7	27474.5	22642.5	18158.5	14012.9	10152.9	6729.1	4167.4	2939.2	2622.3
17.5°	46112.7	37700.3	31314.9	25803.6	20832.0	16287.1	12077.7	8239.8	5063.9	3071.7	2711.5
15°	54380.6	43590.0	35447.3	29007.3	23369.6	18330.2	13789.7	9586.3	5983.9	3534.5	2815.3
12.5°	64230.8	50032.8	39193.7	31817.4	25669.8	20232.1	15385.6	10951.4	7049.6	4163.7	2907.8
10°	73259.3	56529.8	43682.1	34709.7	27835.7	21935.6	16749.2	12088.1	7935.0	4685.5	2984.5
7.5°	82366.7	62739.0	47696.3	37023.5	29559.5	23286.8	17827.7	12985.2	8632.4	5095.9	3044.6
5°	89133.0	67316.6	50638.6	38712.0	30813.0	24266.7	18608.2	13633.1	9135.5	5391.6	3088.0
2.5°	93308.2	70124.9	52436.0	39740.2	31574.5	24860.8	19080.6	14024.9	9439.3	5570.0	3114.1
0°	94720.4	71071.8	53040.7	40085.5	31829.9	25059.9	19238.8	14156.0	9540.9	5629.6	3122.8
-2.5°	93308.2	70124.9	52436.0	39740.2	31574.5	24860.8	19080.6	14024.9	9439.3	5570.0	3114.1
-5°	89133.0	67316.6	50638.6	38712.0	30813.0	24266.7	18608.2	13633.1	9135.5	5391.6	3088.0
-7.5°	82366.7	62739.0	47696.3	37023.5	29559.5	23286.8	17827.7	12985.2	8632.4	5095.9	3044.6
-10°	73259.3	56529.8	43682.1	34709.7	27835.7	21935.6	16749.2	12088.1	7935.0	4685.5	2984.5
-12.5°	64230.8	50032.8	39193.7	31817.4	25669.8	20232.1	15385.6	10951.4	7049.6	4163.7	2907.8
-15°	54380.6	43590.0	35447.3	29007.3	23369.6	18330.2	13789.7	9586.3	5983.9	3534.5	2815.3
-17.5°	46112.7	37700.3	31314.9	25803.6	20832.0	16287.1	12077.7	8239.8	5063.9	3071.7	2711.5
-20°	38464.5	32641.7	27474.5	22642.5	18158.5	14012.9	10152.9	6729.1	4167.4	2939.2	2622.3



REPORT NUMBER: P731303 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	32641.7	28039.5	23565.3	19317.7	15457.1	11731.5	8262.2	5264.0	3173.7	2792.0	2523.0
-25°	27474.5	23565.3	19761.7	16198.5	12697.8	9308.1	6312.7	4099.3	2957.8	2655.8	2412.1
-27.5°	22642.5	19317.7	16198.5	13023.2	9892.0	7078.1	4729.0	3078.9	2771.1	2529.1	2280.2
-30°	18158.5	15457.1	12697.8	9892.0	7335.5	5047.8	3310.0	2866.3	2612.9	2389.2	2139.0
-32.5°	14012.9	11731.5	9308.1	7078.1	5047.8	3465.3	2914.4	2664.0	2459.6	2228.6	2022.6
-35°	10152.9	8262.2	6312.7	4729.0	3310.0	2914.4	2681.1	2493.0	2283.1	2072.8	1910.3
-37.5°	6729.1	5264.0	4099.3	3078.9	2866.3	2664.0	2493.0	2301.4	2098.1	1947.4	1812.6
-40°	4167.4	3173.7	2957.8	2771.1	2612.9	2459.6	2283.1	2098.1	1959.9	1831.0	1720.2
-42.5°	2939.2	2792.0	2655.8	2529.1	2389.2	2228.6	2072.8	1947.4	1831.0	1729.2	1602.7
-45°	2622.3	2523.0	2412.1	2280.2	2139.0	2022.6	1910.3	1812.6	1720.2	1602.7	1475.1
-47.5°	2353.8	2251.1	2138.2	2041.7	1948.5	1855.3	1776.2	1691.4	1579.8	1460.3	1303.4
-50°	2073.3	2006.1	1932.1	1857.1	1791.8	1722.3	1634.1	1534.4	1416.3	1274.3	1124.9
-52.5°	1866.3	1819.6	1768.1	1712.1	1638.1	1555.1	1464.8	1343.6	1216.6	1080.2	937.1
-55°	1707.4	1654.5	1593.6	1527.3	1449.8	1349.6	1243.3	1129.0	1006.5	878.5	758.7
-57.5°	1504.2	1447.2	1374.3	1294.8	1208.9	1114.1	1012.3	904.6	800.2	693.9	586.5
-60°	1243.3	1183.2	1114.1	1038.6	956.9	870.0	786.2	697.6	604.4	523.0	438.6
-62.5°	963.8	907.2	847.8	786.2	719.6	648.1	577.0	510.1	439.5	368.3	314.5
-65°	700.7	655.0	604.4	558.0	508.2	454.7	397.6	348.4	303.9	257.3	211.5
-67.5°	472.4	438.6	401.1	364.4	333.4	300.1	264.5	226.8	198.8	174.3	148.6
-70°	294.9	274.1	251.1	225.9	205.6	188.3	169.9	150.2	129.5	111.9	95.5
-72.5°	175.2	164.6	152.9	140.0	126.0	114.2	102.6	90.2	77.2	63.5	52.7
-75°	97.6	91.1	83.9	76.0	67.4	58.1	52.3	48.0	43.4	38.6	33.6
-77.5°	46.8	44.5	42.1	39.4	36.5	33.3	29.9	27.2	26.0	24.8	23.5
-80°	25.5	25.0	24.3	23.7	23.0	22.2	21.3	20.4	19.5	18.5	17.5
-82.5°	17.4	17.0	16.6	16.1	15.5	14.9	14.3	13.6	12.9	12.2	11.4
-85°	9.8	9.6	9.4	9.2	9.0	8.8	8.5	8.2	8.0	7.7	7.3
-87.5°	4.9	4.8	4.7	4.6	4.5	4.4	4.3	4.1	4.0	3.8	3.7
-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: P731303 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-80-4S-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°	3.5	3.3	3.2	3.0	2.8	2.6	2.4	2.2	2.0	1.8	1.6
85°	7.0	6.7	6.3	6.0	5.6	5.2	4.8	4.4	4.0	3.6	3.1
82.5°	10.6	10.0	9.5	8.9	8.4	7.8	7.2	6.6	6.0	5.3	4.7
80°	16.4	15.2	14.1	12.9	11.6	10.4	9.6	8.8	7.9	7.1	6.2
77.5°	22.1	20.7	19.2	17.7	16.2	14.6	12.9	11.3	9.9	8.8	7.8
75°	28.4	26.1	24.4	22.6	20.7	18.8	16.8	14.8	12.8	10.7	9.3
72.5°	46.6	40.2	33.6	27.4	25.2	22.9	20.7	18.3	15.9	13.5	11.0
70°	78.3	60.6	49.9	42.1	34.1	27.1	24.5	21.8	19.1	16.3	13.5
67.5°	122.0	102.0	81.4	60.0	48.2	39.0	29.6	25.2	22.2	19.1	15.9
65°	181.8	150.9	120.0	96.3	72.0	51.9	41.4	30.8	25.2	21.8	18.3
62.5°	258.7	207.0	171.9	135.8	105.4	78.0	53.1	41.4	29.6	24.5	20.7
60°	358.1	294.9	229.7	184.6	144.3	108.4	78.0	51.9	39.0	27.1	22.9
57.5°	491.4	393.0	316.8	244.2	188.8	144.3	105.4	72.0	48.2	34.1	25.2
55°	634.9	523.3	414.2	324.1	244.2	184.6	135.8	96.3	60.0	42.1	27.4
52.5°	797.9	660.9	534.0	414.2	316.8	229.7	171.9	120.0	81.4	49.9	33.6
50°	966.6	811.1	660.9	523.3	393.0	294.9	207.0	150.9	102.0	60.6	40.2
47.5°	1139.8	966.6	797.9	634.9	491.4	358.1	258.7	181.8	122.0	78.3	46.6
45°	1303.4	1124.9	937.1	758.7	586.5	438.6	314.5	211.5	148.6	95.5	52.7
42.5°	1460.3	1274.3	1080.2	878.5	693.9	523.0	368.3	257.3	174.3	111.9	63.5
40°	1579.8	1416.3	1216.6	1006.5	800.2	604.4	439.5	303.9	198.8	129.5	77.2
37.5°	1691.4	1534.4	1343.6	1129.0	904.6	697.6	510.1	348.4	226.8	150.2	90.2
35°	1776.2	1634.1	1464.8	1243.3	1012.3	786.2	577.0	397.6	264.5	169.9	102.6
32.5°	1855.3	1722.3	1555.1	1349.6	1114.1	870.0	648.1	454.7	300.1	188.3	114.2
30°	1948.5	1791.8	1638.1	1449.8	1208.9	956.9	719.6	508.2	333.4	205.6	126.0
27.5°	2041.7	1857.1	1712.1	1527.3	1294.8	1038.6	786.2	558.0	364.4	225.9	140.0
25°	2138.2	1932.1	1768.1	1593.6	1374.3	1114.1	847.8	604.4	401.1	251.1	152.9
22.5°	2251.1	2006.1	1819.6	1654.5	1447.2	1183.2	907.2	655.0	438.6	274.1	164.6
20°	2353.8	2073.3	1866.3	1707.4	1504.2	1243.3	963.8	700.7	472.4	294.9	175.2
17.5°	2444.3	2145.3	1919.2	1745.7	1549.2	1296.8	1014.2	741.4	502.4	313.3	184.6
15°	2516.7	2219.8	1967.7	1779.2	1588.6	1343.6	1058.2	776.9	528.7	329.4	192.8
12.5°	2578.7	2283.5	2009.2	1807.8	1622.1	1383.5	1095.7	807.1	551.0	343.1	199.8
10°	2630.0	2336.2	2043.4	1831.4	1649.8	1416.3	1126.6	831.9	569.3	354.3	205.5
7.5°	2670.3	2377.4	2070.2	1849.8	1671.4	1441.9	1150.7	851.3	583.6	363.1	209.9
5°	2699.2	2407.1	2089.4	1863.1	1686.9	1460.3	1167.9	865.2	593.9	369.4	213.1
2.5°	2716.7	2424.9	2101.0	1871.0	1696.3	1471.4	1178.3	873.6	600.0	373.1	215.1
0°	2722.5	2430.9	2104.9	1873.7	1699.4	1475.1	1181.8	876.4	602.1	374.4	215.7
-2.5°	2716.7	2424.9	2101.0	1871.0	1696.3	1471.4	1178.3	873.6	600.0	373.1	215.1
-5°	2699.2	2407.1	2089.4	1863.1	1686.9	1460.3	1167.9	865.2	593.9	369.4	213.1
-7.5°	2670.3	2377.4	2070.2	1849.8	1671.4	1441.9	1150.7	851.3	583.6	363.1	209.9
-10°	2630.0	2336.2	2043.4	1831.4	1649.8	1416.3	1126.6	831.9	569.3	354.3	205.5
-12.5°	2578.7	2283.5	2009.2	1807.8	1622.1	1383.5	1095.7	807.1	551.0	343.1	199.8
-15°	2516.7	2219.8	1967.7	1779.2	1588.6	1343.6	1058.2	776.9	528.7	329.4	192.8
-17.5°	2444.3	2145.3	1919.2	1745.7	1549.2	1296.8	1014.2	741.4	502.4	313.3	184.6
-20°	2353.8	2073.3	1866.3	1707.4	1504.2	1243.3	963.8	700.7	472.4	294.9	175.2



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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°	2251.1	2006.1	1819.6	1654.5	1447.2	1183.2	907.2	655.0	438.6	274.1	164.6
-25°	2138.2	1932.1	1768.1	1593.6	1374.3	1114.1	847.8	604.4	401.1	251.1	152.9
-27.5°	2041.7	1857.1	1712.1	1527.3	1294.8	1038.6	786.2	558.0	364.4	225.9	140.0
-30°	1948.5	1791.8	1638.1	1449.8	1208.9	956.9	719.6	508.2	333.4	205.6	126.0
-32.5°	1855.3	1722.3	1555.1	1349.6	1114.1	870.0	648.1	454.7	300.1	188.3	114.2
-35°	1776.2	1634.1	1464.8	1243.3	1012.3	786.2	577.0	397.6	264.5	169.9	102.6
-37.5°	1691.4	1534.4	1343.6	1129.0	904.6	697.6	510.1	348.4	226.8	150.2	90.2
-40°	1579.8	1416.3	1216.6	1006.5	800.2	604.4	439.5	303.9	198.8	129.5	77.2
-42.5°	1460.3	1274.3	1080.2	878.5	693.9	523.0	368.3	257.3	174.3	111.9	63.5
-45°	1303.4	1124.9	937.1	758.7	586.5	438.6	314.5	211.5	148.6	95.5	52.7
-47.5°	1139.8	966.6	797.9	634.9	491.4	358.1	258.7	181.8	122.0	78.3	46.6
-50°	966.6	811.1	660.9	523.3	393.0	294.9	207.0	150.9	102.0	60.6	40.2
-52.5°	797.9	660.9	534.0	414.2	316.8	229.7	171.9	120.0	81.4	49.9	33.6
-55°	634.9	523.3	414.2	324.1	244.2	184.6	135.8	96.3	60.0	42.1	27.4
-57.5°	491.4	393.0	316.8	244.2	188.8	144.3	105.4	72.0	48.2	34.1	25.2
-60°	358.1	294.9	229.7	184.6	144.3	108.4	78.0	51.9	39.0	27.1	22.9
-62.5°	258.7	207.0	171.9	135.8	105.4	78.0	53.1	41.4	29.6	24.5	20.7
-65°	181.8	150.9	120.0	96.3	72.0	51.9	41.4	30.8	25.2	21.8	18.3
-67.5°	122.0	102.0	81.4	60.0	48.2	39.0	29.6	25.2	22.2	19.1	15.9
-70°	78.3	60.6	49.9	42.1	34.1	27.1	24.5	21.8	19.1	16.3	13.5
-72.5°	46.6	40.2	33.6	27.4	25.2	22.9	20.7	18.3	15.9	13.5	11.0
-75°	28.4	26.1	24.4	22.6	20.7	18.8	16.8	14.8	12.8	10.7	9.3
-77.5°	22.1	20.7	19.2	17.7	16.2	14.6	12.9	11.3	9.9	8.8	7.8
-80°	16.4	15.2	14.1	12.9	11.6	10.4	9.6	8.8	7.9	7.1	6.2
-82.5°	10.6	10.0	9.5	8.9	8.4	7.8	7.2	6.6	6.0	5.3	4.7
-85°	7.0	6.7	6.3	6.0	5.6	5.2	4.8	4.4	4.0	3.6	3.1
-87.5°	3.5	3.3	3.2	3.0	2.8	2.6	2.4	2.2	2.0	1.8	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):

	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°	1.3	1.1	0.9	0.7	0.5	0.2	0.0
85°	2.7	2.2	1.8	1.4	0.9	0.5	0.0
82.5°	4.0	3.4	2.7	2.0	1.4	0.7	0.0
80°	5.4	4.5	3.6	2.7	1.8	0.9	0.0
77.5°	6.7	5.6	4.5	3.4	2.2	1.1	0.0
75°	8.0	6.7	5.4	4.0	2.7	1.3	0.0
72.5°	9.3	7.8	6.2	4.7	3.1	1.6	0.0
70°	10.7	8.8	7.1	5.3	3.6	1.8	0.0
67.5°	12.8	9.9	7.9	6.0	4.0	2.0	0.0
65°	14.8	11.3	8.8	6.6	4.4	2.2	0.0
62.5°	16.8	12.9	9.6	7.2	4.8	2.4	0.0
60°	18.8	14.6	10.4	7.8	5.2	2.6	0.0
57.5°	20.7	16.2	11.6	8.4	5.6	2.8	0.0
55°	22.6	17.7	12.9	8.9	6.0	3.0	0.0
52.5°	24.4	19.2	14.1	9.5	6.3	3.2	0.0
50°	26.1	20.7	15.2	10.0	6.7	3.3	0.0
47.5°	28.4	22.1	16.4	10.6	7.0	3.5	0.0
45°	33.6	23.5	17.5	11.4	7.3	3.7	0.0
42.5°	38.6	24.8	18.5	12.2	7.7	3.8	0.0
40°	43.4	26.0	19.5	12.9	8.0	4.0	0.0
37.5°	48.0	27.2	20.4	13.6	8.2	4.1	0.0
35°	52.3	29.9	21.3	14.3	8.5	4.3	0.0
32.5°	58.1	33.3	22.2	14.9	8.8	4.4	0.0
30°	67.4	36.5	23.0	15.5	9.0	4.5	0.0
27.5°	76.0	39.4	23.7	16.1	9.2	4.6	0.0
25°	83.9	42.1	24.3	16.6	9.4	4.7	0.0
22.5°	91.1	44.5	25.0	17.0	9.6	4.8	0.0
20°	97.6	46.8	25.5	17.4	9.8	4.9	0.0
17.5°	103.4	48.7	26.0	17.8	9.9	5.0	0.0
15°	108.4	50.4	26.4	18.1	10.0	5.0	0.0
12.5°	112.7	51.9	26.8	18.4	10.2	5.1	0.0
10°	116.2	53.1	27.1	18.6	10.2	5.1	0.0
7.5°	119.0	54.0	27.3	18.8	10.3	5.2	0.0
5°	120.9	54.7	27.5	18.9	10.4	5.2	0.0
2.5°	122.1	55.1	27.6	19.0	10.4	5.2	0.0
0°	122.5	55.2	27.6	19.0	10.4	5.2	0.0
-2.5°	122.1	55.1	27.6	19.0	10.4	5.2	0.0
-5°	120.9	54.7	27.5	18.9	10.4	5.2	0.0
-7.5°	119.0	54.0	27.3	18.8	10.3	5.2	0.0
-10°	116.2	53.1	27.1	18.6	10.2	5.1	0.0
-12.5°	112.7	51.9	26.8	18.4	10.2	5.1	0.0
-15°	108.4	50.4	26.4	18.1	10.0	5.0	0.0
-17.5°	103.4	48.7	26.0	17.8	9.9	5.0	0.0
-20°	97.6	46.8	25.5	17.4	9.8	4.9	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	91.1	44.5	25.0	17.0	9.6	4.8	0.0
-25°	83.9	42.1	24.3	16.6	9.4	4.7	0.0
-27.5°	76.0	39.4	23.7	16.1	9.2	4.6	0.0
-30°	67.4	36.5	23.0	15.5	9.0	4.5	0.0
-32.5°	58.1	33.3	22.2	14.9	8.8	4.4	0.0
-35°	52.3	29.9	21.3	14.3	8.5	4.3	0.0
-37.5°	48.0	27.2	20.4	13.6	8.2	4.1	0.0
-40°	43.4	26.0	19.5	12.9	8.0	4.0	0.0
-42.5°	38.6	24.8	18.5	12.2	7.7	3.8	0.0
-45°	33.6	23.5	17.5	11.4	7.3	3.7	0.0
-47.5°	28.4	22.1	16.4	10.6	7.0	3.5	0.0
-50°	26.1	20.7	15.2	10.0	6.7	3.3	0.0
-52.5°	24.4	19.2	14.1	9.5	6.3	3.2	0.0
-55°	22.6	17.7	12.9	8.9	6.0	3.0	0.0
-57.5°	20.7	16.2	11.6	8.4	5.6	2.8	0.0
-60°	18.8	14.6	10.4	7.8	5.2	2.6	0.0
-62.5°	16.8	12.9	9.6	7.2	4.8	2.4	0.0
-65°	14.8	11.3	8.8	6.6	4.4	2.2	0.0
-67.5°	12.8	9.9	7.9	6.0	4.0	2.0	0.0
-70°	10.7	8.8	7.1	5.3	3.6	1.8	0.0
-72.5°	9.3	7.8	6.2	4.7	3.1	1.6	0.0
-75°	8.0	6.7	5.4	4.0	2.7	1.3	0.0
-77.5°	6.7	5.6	4.5	3.4	2.2	1.1	0.0
-80°	5.4	4.5	3.6	2.7	1.8	0.9	0.0
-82.5°	4.0	3.4	2.7	2.0	1.4	0.7	0.0
-85°	2.7	2.2	1.8	1.4	0.9	0.5	0.0
-87.5°	1.3	1.1	0.9	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

