

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: P701742 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-57-80-5S-VHE-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701742 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680R-57-80-5S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 5S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

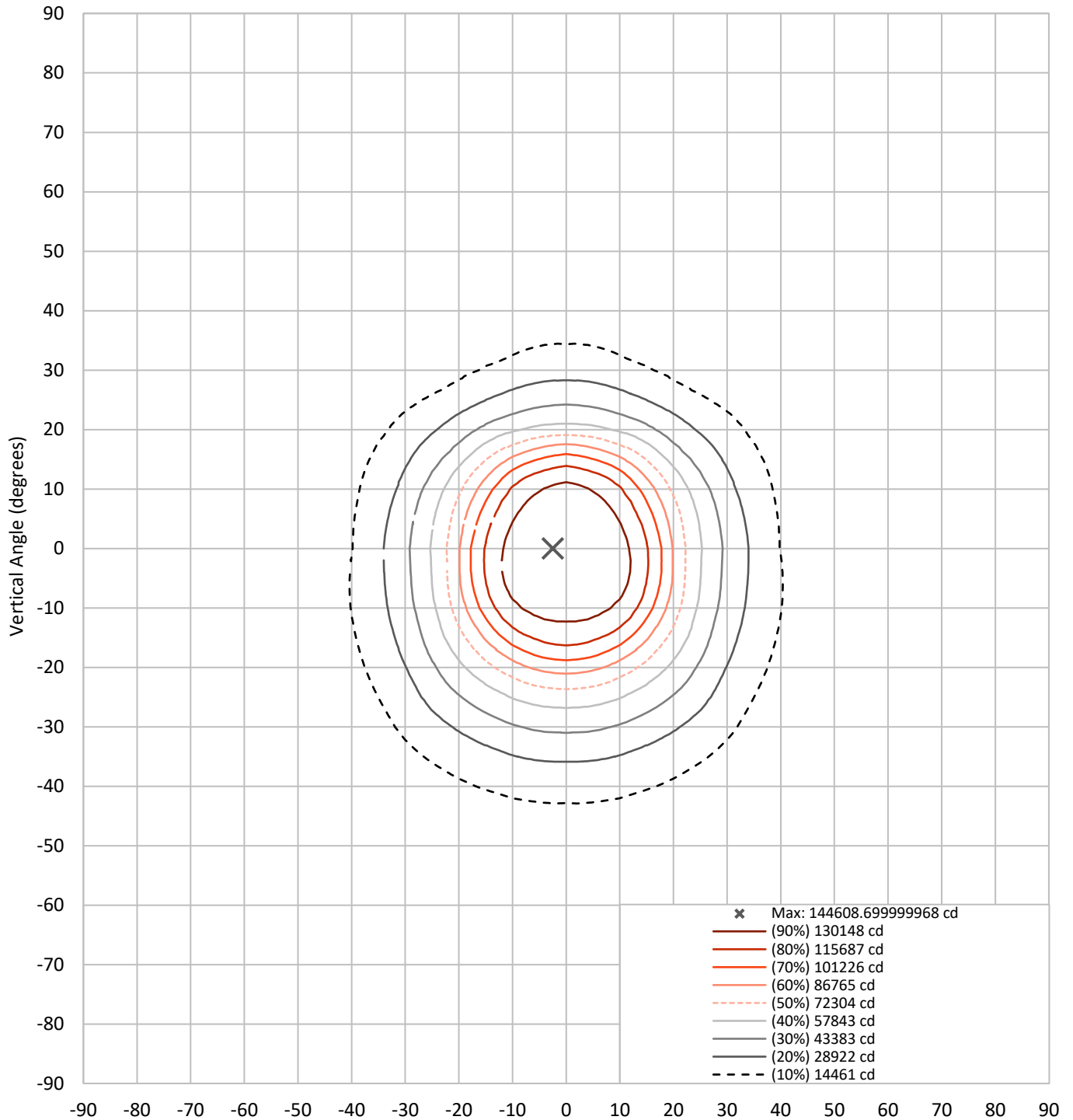
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	94159.8 lumens	Max Intensity:	144608.7 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	135.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	44.5°H x 42.5°V	Field Angle (10%):	79.6°H x 77.3°V
Beam Lumens:	51702.6 lumens	Field Lumens:	86521.4 lumens
Beam Efficiency:	54.9%	Field Efficiency:	91.9%

Input Watts (W): 697.5
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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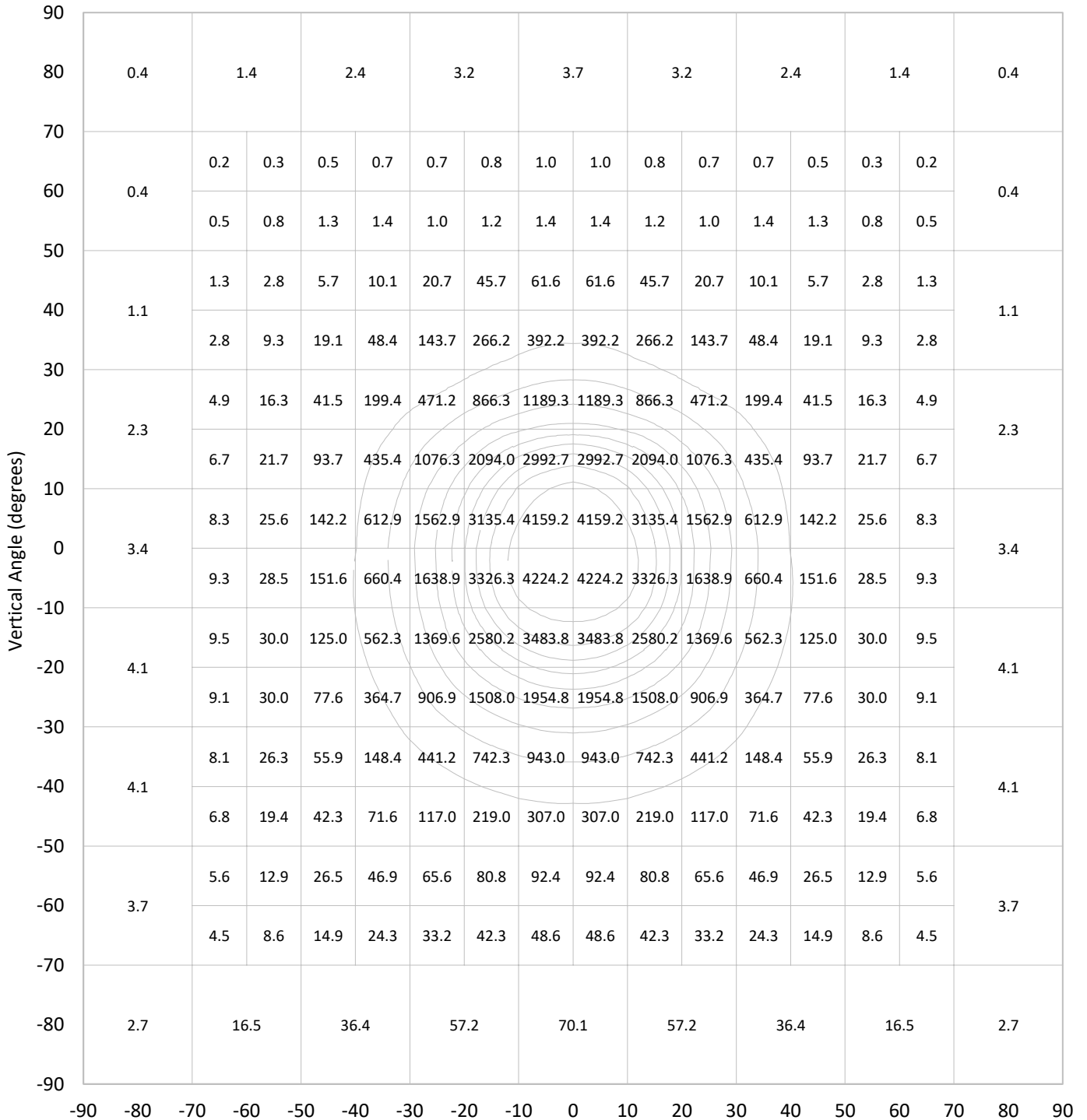
Iso-Candela Plot





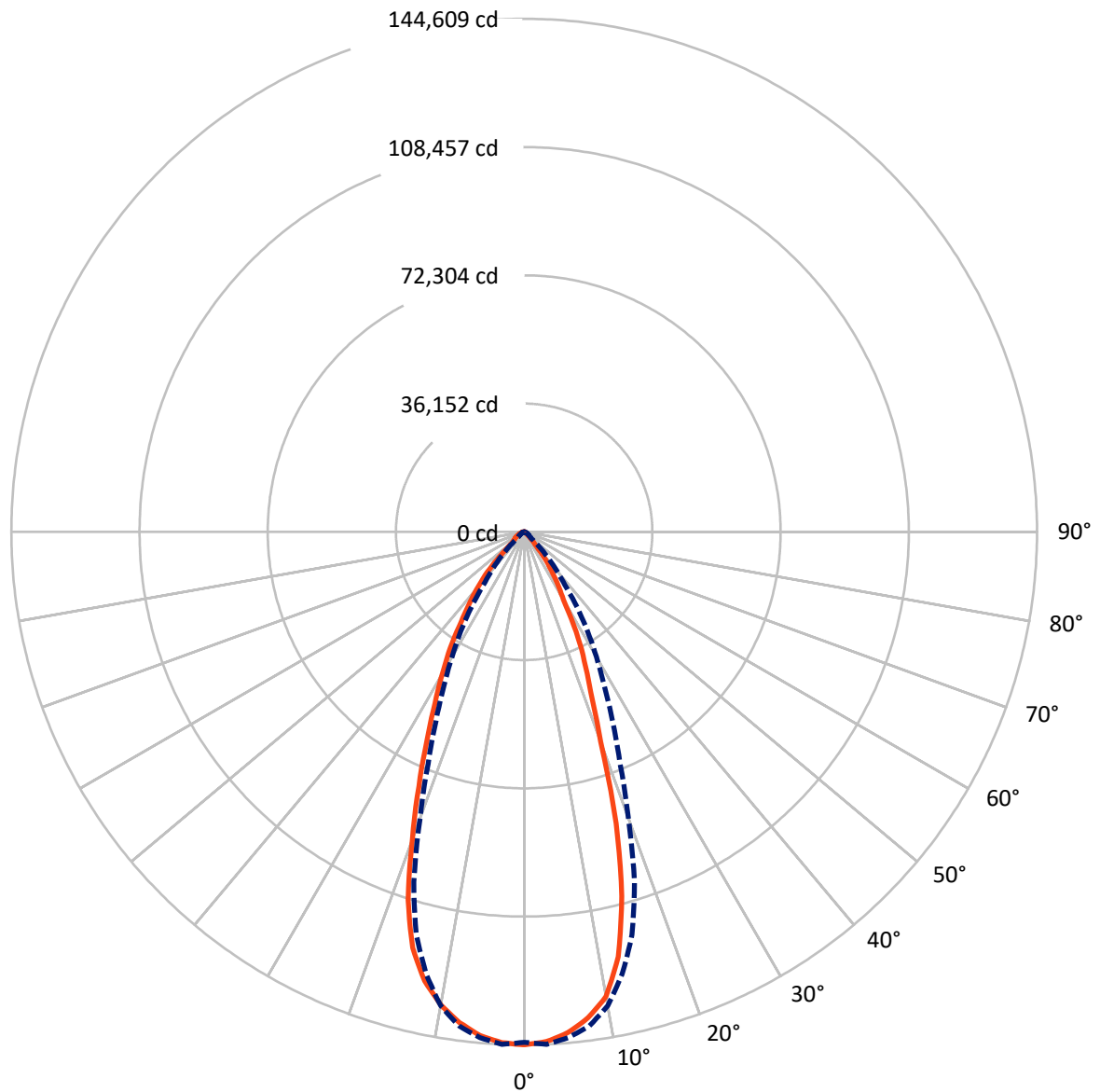
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Lumen Table



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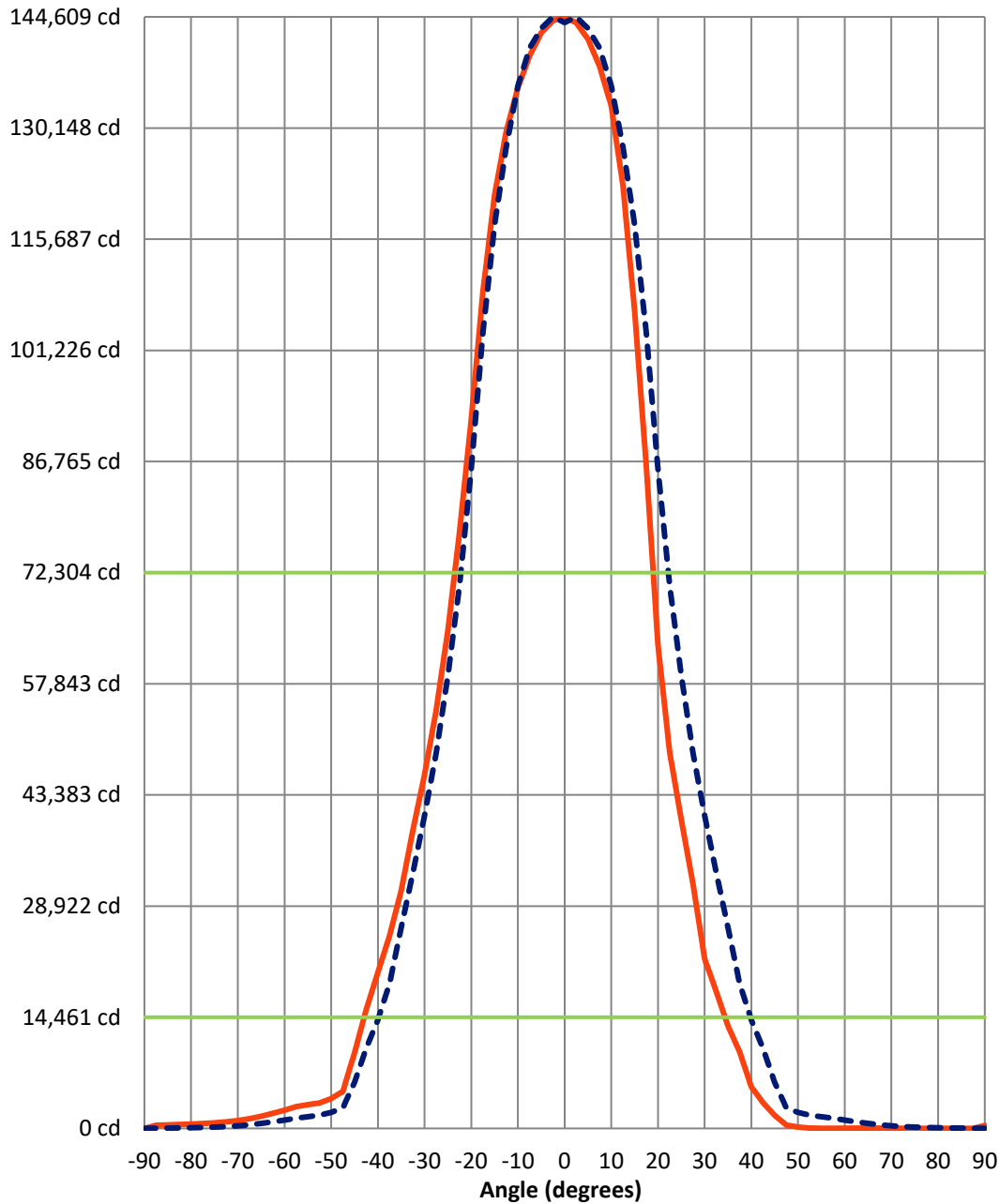
Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 44.5°
 V Angle: 42.5°
 Lumens: 51702.6
 Efficiency: 54.9%

Field:
 H Angle: 79.6°
 V Angle: 77.3°
 Lumens: 86521.4
 Efficiency: 91.9%

Spill:
 Lumens: 7638.5
 Efficiency: 8.1%

— Vertical Distribution through -2.5-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°	12.5	24.4	36.4	60.2	84.1	106.2	128.4	146.6	164.8	177.9	190.9
87.5°	12.5	11.6	10.5	10.6	10.6	10.7	10.8	10.3	9.9	9.8	9.6
85°	12.5	11.9	10.8	10.9	11.0	11.2	11.4	11.0	10.7	10.4	10.0
82.5°	12.5	12.1	11.1	11.3	11.4	11.7	12.0	11.8	11.5	11.1	10.6
80°	12.5	12.4	11.4	11.7	11.8	12.2	12.6	12.4	12.3	11.8	11.1
77.5°	12.5	12.6	11.8	12.1	12.2	12.8	13.2	13.1	13.0	12.5	11.7
75°	12.5	12.9	12.1	12.5	12.7	13.5	13.8	13.8	13.8	13.1	12.3
72.5°	12.5	13.1	12.5	12.8	13.5	14.3	14.5	14.6	14.4	13.7	12.9
70°	12.5	13.4	12.8	13.3	14.3	15.1	15.3	15.4	15.0	14.2	14.0
67.5°	12.5	13.7	13.2	13.9	15.1	15.9	16.3	16.3	15.8	15.5	15.2
65°	12.5	14.0	13.6	14.6	15.9	16.8	17.3	17.3	17.3	16.9	16.9
62.5°	12.5	14.2	14.1	15.3	16.7	17.8	18.3	18.8	19.0	18.7	19.7
60°	12.5	14.5	14.5	15.9	17.6	18.7	19.4	20.6	20.8	22.6	22.9
57.5°	12.5	14.8	15.3	16.6	18.7	19.7	21.6	22.5	25.6	27.3	29.1
55°	12.5	15.1	16.0	17.2	19.9	20.7	24.1	24.9	31.7	33.9	37.5
52.5°	12.5	15.3	16.9	17.9	21.3	22.0	26.8	31.3	38.5	44.1	46.8
50°	12.5	15.6	17.7	18.5	22.7	25.2	29.7	38.2	46.8	55.0	60.5
47.5°	12.5	15.9	18.7	19.3	24.2	28.5	33.3	45.4	57.4	66.5	75.8
45°	12.5	16.2	19.6	20.6	25.9	32.0	39.6	52.6	68.2	81.3	91.9
42.5°	12.5	16.5	20.6	21.8	27.6	35.6	45.9	61.4	79.5	96.6	116.4
40°	12.5	16.8	21.7	23.7	30.0	39.4	52.6	71.4	91.9	112.6	143.5
37.5°	12.5	17.0	22.7	26.0	33.0	43.3	59.8	81.7	106.3	131.7	172.2
35°	12.5	17.3	23.9	28.3	36.0	48.6	67.1	92.0	121.1	157.6	205.4
32.5°	12.5	17.6	25.0	30.7	39.0	54.4	75.0	102.9	136.3	184.0	243.1
30°	12.5	17.9	26.2	33.2	42.1	60.1	84.1	114.4	151.8	210.8	280.1
27.5°	12.5	18.1	27.4	35.6	46.3	65.8	93.1	126.9	169.2	238.0	316.3
25°	12.5	18.4	28.6	38.1	50.5	71.4	101.8	139.0	189.3	267.1	351.9
22.5°	12.5	18.6	29.8	40.6	54.6	77.2	110.3	150.5	208.3	292.2	389.5
20°	12.5	18.9	31.0	43.1	58.7	83.3	118.5	161.5	226.2	316.0	420.9
17.5°	12.5	19.1	32.2	45.5	62.6	89.3	126.6	171.9	242.8	338.3	450.6
15°	12.5	19.4	33.4	48.0	66.5	94.9	134.5	182.0	258.2	359.1	478.7
12.5°	12.5	19.6	34.6	50.4	70.2	100.3	142.0	192.0	273.6	378.2	505.1
10°	12.5	19.8	35.7	52.8	73.7	105.4	148.9	201.3	289.0	400.8	533.0
7.5°	12.5	20.0	36.8	55.1	77.1	110.2	155.4	210.0	303.2	422.7	566.3
5°	12.5	20.2	37.9	57.3	80.4	114.7	161.3	218.0	316.1	443.0	597.7
2.5°	12.5	20.3	38.9	59.4	83.5	118.9	166.7	225.3	327.6	461.3	626.5
0°	12.5	20.5	39.8	61.4	86.4	122.7	171.6	231.8	337.5	477.3	652.3
-2.5°	12.5	21.3	41.5	64.1	90.4	128.3	178.9	241.2	349.1	490.9	665.6
-5°	12.5	22.1	43.1	66.7	94.2	133.6	185.6	249.8	358.9	501.8	675.5
-7.5°	12.5	22.8	44.7	69.1	97.8	138.4	191.7	257.4	366.8	510.1	681.9
-10°	12.5	23.5	46.1	71.4	101.1	142.8	197.1	264.0	372.9	515.7	685.0
-12.5°	12.5	24.2	47.5	73.5	104.2	146.7	201.8	269.5	377.1	518.6	689.8
-15°	12.5	24.9	48.7	75.5	107.0	150.1	205.7	274.0	379.3	519.4	692.2
-17.5°	12.5	25.5	49.9	77.3	109.5	153.0	208.9	277.9	379.9	517.2	689.3
-20°	12.5	26.1	50.9	78.9	111.7	155.4	211.8	281.2	378.5	511.9	680.8



REPORT NUMBER: P701742 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-80-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	12.5	26.7	51.9	80.4	113.6	157.3	214.7	283.4	375.1	503.4	667.2
-25°	12.5	27.2	52.7	81.6	115.2	159.5	216.8	284.6	369.8	491.8	655.3
-27.5°	12.5	27.7	53.4	82.7	116.4	161.6	218.1	284.8	362.5	483.9	646.5
-30°	12.5	28.1	54.0	83.6	117.5	163.2	218.5	284.0	359.4	477.6	632.9
-32.5°	12.5	28.5	54.5	84.3	119.5	164.2	218.0	283.3	359.1	468.1	614.0
-35°	12.5	28.8	54.9	84.8	121.1	164.7	218.1	282.3	357.1	455.2	589.9
-37.5°	12.5	29.1	55.2	85.1	122.4	165.2	218.1	280.5	353.3	439.0	567.9
-40°	12.5	29.4	55.3	85.2	123.4	166.5	217.4	277.6	347.7	429.2	546.8
-42.5°	12.5	29.6	55.3	85.4	124.3	167.3	216.2	273.5	342.2	421.1	522.0
-45°	12.5	29.7	55.2	85.9	125.0	167.7	214.3	269.6	336.1	410.7	496.0
-47.5°	12.5	29.8	54.9	86.1	125.2	167.7	211.7	266.4	328.6	398.1	481.5
-50°	12.5	29.9	54.6	86.2	125.0	167.3	210.7	262.3	319.0	386.8	464.3
-52.5°	12.5	29.8	54.1	86.1	124.4	166.4	209.6	257.2	310.9	373.4	443.5
-55°	12.5	29.8	53.5	85.7	123.5	164.9	207.8	251.6	303.0	357.9	422.7
-57.5°	12.5	29.7	52.8	85.0	122.1	162.9	205.6	248.8	293.9	345.7	399.9
-60°	12.5	29.5	51.9	84.2	120.3	160.4	202.7	244.8	284.8	333.7	378.2
-62.5°	12.5	29.3	51.2	83.1	118.6	157.5	198.9	240.0	279.0	319.9	360.9
-65°	12.5	29.1	50.4	81.7	116.6	154.1	194.5	234.4	272.4	309.1	342.5
-67.5°	12.5	28.8	49.5	80.2	114.2	150.4	189.6	227.7	265.1	298.9	328.3
-70°	12.5	28.5	48.4	78.4	111.6	146.4	184.2	220.4	256.1	288.0	315.4
-72.5°	12.5	28.1	47.2	76.7	108.6	141.9	177.7	212.4	246.4	275.6	301.7
-75°	12.5	27.7	45.9	74.9	105.4	136.9	170.6	203.2	236.1	262.7	287.3
-77.5°	12.5	27.2	44.5	72.8	102.3	131.5	162.9	193.1	223.8	248.9	272.3
-80°	12.5	26.7	43.0	70.6	99.1	126.6	154.7	182.5	210.9	233.1	254.9
-82.5°	12.5	26.2	41.5	68.3	95.7	121.9	148.4	172.5	197.4	216.9	236.3
-85°	12.5	25.6	39.9	65.8	92.0	116.9	142.0	164.2	186.7	203.0	219.2
-87.5°	12.5	25.1	38.2	63.1	88.2	111.7	135.3	155.5	175.9	190.6	205.2
-90°	12.5	11.4	10.2	10.2	10.2	10.2	10.2	9.7	9.1	9.1	9.1



REPORT NUMBER: P701742 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-80-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	198.9	206.8	214.2	221.6	230.7	239.8	249.5	259.1	269.4	279.6	289.3
87.5°	9.1	8.6	8.6	8.6	8.1	7.6	7.2	6.8	6.3	5.7	5.6
85°	9.6	9.1	9.2	9.1	8.7	8.3	7.8	7.3	6.8	6.3	6.3
82.5°	10.3	10.3	9.9	9.2	9.0	9.0	8.6	8.1	7.6	7.2	7.0
80°	11.1	11.4	10.5	9.6	9.4	9.2	8.6	8.1	8.0	8.0	7.6
77.5°	11.6	11.5	10.8	10.2	9.8	9.4	9.1	8.7	8.5	8.1	8.0
75°	11.9	11.6	11.2	10.5	10.1	10.1	9.9	9.6	9.3	9.4	9.4
72.5°	12.6	12.3	11.7	10.8	10.5	10.7	10.8	10.4	10.7	11.2	11.1
70°	13.6	13.1	12.3	11.6	11.2	11.6	12.1	12.9	13.8	14.0	15.0
67.5°	14.7	14.2	13.1	12.5	12.3	12.9	13.6	16.5	19.1	20.5	22.2
65°	16.3	15.5	14.4	14.3	13.6	16.4	18.8	21.7	27.1	29.8	29.6
62.5°	18.3	18.5	17.1	17.4	19.8	22.2	26.3	32.6	38.9	41.4	39.2
60°	23.2	22.5	22.6	24.1	26.7	29.6	36.0	43.7	51.1	55.0	49.0
57.5°	29.8	29.5	31.2	32.2	35.6	36.5	45.0	54.6	60.9	65.6	57.8
55°	38.9	39.2	42.5	43.6	46.1	46.0	53.3	62.3	68.7	70.9	62.8
52.5°	51.7	52.2	58.2	59.1	58.3	59.1	61.8	71.4	76.8	76.9	69.8
50°	65.5	72.9	76.6	79.1	74.7	77.4	74.9	85.7	93.7	93.0	95.6
47.5°	86.3	96.1	101.5	105.5	102.2	110.7	108.8	125.3	130.9	162.2	167.0
45°	110.9	126.5	133.7	142.5	152.4	162.6	189.0	189.1	262.9	292.0	368.6
42.5°	138.5	161.8	181.9	185.5	234.5	263.0	299.1	373.0	445.1	535.7	570.2
40°	175.0	200.9	241.9	288.1	342.5	404.5	471.6	561.4	656.1	702.9	708.9
37.5°	215.4	264.2	321.3	405.2	488.7	570.2	655.2	743.0	811.2	828.6	892.2
35°	258.9	330.5	437.0	533.3	630.5	743.0	818.7	899.6	940.5	1012.3	1134.7
32.5°	313.6	398.4	530.8	656.1	764.1	886.6	959.1	1021.0	1117.2	1241.5	1511.9
30°	370.8	475.2	609.0	753.6	886.7	989.4	1071.9	1149.6	1300.2	1600.8	2527.8
27.5°	418.4	541.0	681.8	843.0	994.8	1088.5	1182.0	1317.7	1586.9	2206.2	3964.4
25°	461.0	594.1	753.1	940.3	1088.9	1192.0	1313.7	1505.4	1927.7	3608.7	5861.7
22.5°	502.7	646.6	834.6	1042.5	1184.3	1293.8	1478.1	1824.3	2709.3	5072.5	7780.3
20°	545.7	713.6	923.0	1137.5	1275.6	1384.0	1621.8	2134.1	3945.6	6648.2	9473.3
17.5°	590.7	781.1	1009.1	1205.0	1334.3	1478.5	1773.3	2388.1	4977.7	8119.9	11282.3
15°	634.8	846.0	1082.6	1263.3	1387.9	1580.6	1976.7	3137.4	6069.1	9763.3	13216.5
12.5°	676.9	904.8	1139.7	1309.0	1440.9	1675.7	2143.8	3962.9	7381.3	11289.1	14898.0
10°	716.7	957.6	1187.7	1352.2	1498.5	1777.2	2304.7	4771.1	8530.0	12280.7	15935.8
7.5°	757.6	1001.5	1228.3	1393.5	1554.0	1872.8	2481.9	5398.9	9387.7	13043.4	16737.7
5°	794.5	1035.3	1267.3	1439.6	1611.2	1957.7	2625.2	5878.8	10031.3	13673.6	17451.9
2.5°	826.9	1061.8	1300.5	1483.1	1666.9	2028.8	2666.5	6012.3	10333.6	14012.7	18154.3
0°	854.6	1081.9	1327.3	1521.7	1717.1	2086.5	2677.4	5988.9	10408.4	14115.4	18838.3
-2.5°	870.3	1107.8	1375.3	1577.1	1762.0	2133.1	2734.1	5997.7	10471.6	14834.9	19717.9
-5°	881.3	1127.2	1414.8	1626.3	1801.8	2165.8	2765.6	5861.4	10386.1	15213.6	19975.0
-7.5°	887.5	1139.4	1443.8	1667.1	1838.0	2189.5	2783.4	5639.7	10390.9	15230.9	19651.7
-10°	890.7	1151.0	1457.4	1690.1	1869.0	2200.9	2774.8	5258.9	9978.4	14818.6	19119.0
-12.5°	901.5	1161.7	1462.2	1707.1	1893.8	2203.6	2787.5	4886.3	9204.6	14068.0	18357.4
-15°	905.7	1164.5	1459.6	1721.2	1933.7	2230.5	2787.9	4307.4	8200.1	13115.7	17399.7
-17.5°	902.9	1159.2	1451.3	1741.5	1970.7	2232.8	2724.6	3548.2	7052.8	11760.8	16138.8
-20°	893.0	1147.3	1433.1	1751.5	1991.7	2251.2	2706.1	3425.0	5928.4	10066.9	14607.8



REPORT NUMBER: P701742 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-80-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	878.7	1128.7	1407.1	1729.4	2015.8	2291.7	2680.7	3261.0	4606.2	8131.8	12712.5
-25°	861.7	1108.1	1379.3	1703.9	2027.0	2317.7	2602.1	3042.1	3829.8	6476.1	10366.5
-27.5°	843.9	1078.8	1349.6	1661.7	2020.3	2305.3	2555.8	2920.7	3477.4	4636.5	7922.3
-30°	821.3	1043.7	1305.9	1606.9	1960.5	2267.2	2527.6	2763.7	3143.9	3840.5	5812.8
-32.5°	793.7	1002.5	1257.2	1544.6	1870.2	2221.6	2462.4	2667.6	2957.2	3384.0	4193.3
-35°	762.5	966.2	1203.1	1465.9	1763.3	2107.1	2364.3	2581.4	2777.0	3105.6	3623.1
-37.5°	730.7	921.3	1133.5	1382.7	1665.8	1946.6	2250.1	2466.4	2663.5	2869.7	3238.3
-40°	693.6	865.6	1064.3	1294.7	1534.8	1789.5	2071.1	2342.1	2536.9	2751.8	2972.7
-42.5°	652.9	812.7	990.3	1190.1	1405.5	1634.5	1884.4	2155.9	2416.9	2622.4	2825.5
-45°	620.1	755.4	911.4	1089.3	1274.8	1478.5	1706.4	1944.3	2221.4	2487.4	2675.3
-47.5°	580.5	698.5	842.2	983.3	1151.2	1333.0	1527.6	1752.9	1985.3	2247.3	2504.2
-50°	542.5	650.7	761.3	888.6	1031.0	1190.8	1364.3	1562.6	1777.5	1992.2	2225.2
-52.5°	516.6	599.3	693.6	793.9	918.4	1055.4	1209.1	1377.5	1565.8	1753.4	1955.5
-55°	488.1	559.7	627.4	712.5	810.3	929.1	1062.6	1209.8	1353.4	1524.7	1696.3
-57.5°	460.3	519.7	574.0	639.3	721.0	808.3	929.6	1052.1	1176.9	1309.5	1454.5
-60°	432.1	480.8	528.3	581.1	640.7	717.9	802.3	904.7	1006.6	1112.5	1240.8
-62.5°	403.9	443.6	484.4	529.9	580.5	632.7	701.7	776.3	847.7	944.2	1046.4
-65°	381.4	408.6	442.4	482.4	523.2	571.0	619.1	665.7	728.4	801.6	875.8
-67.5°	357.1	382.7	407.4	435.5	472.4	511.8	551.6	593.4	635.9	686.2	740.4
-70°	339.3	357.5	379.4	402.7	426.9	455.4	490.8	525.5	561.3	603.2	646.4
-72.5°	322.6	339.3	355.7	372.0	393.8	417.4	440.8	464.1	493.9	529.6	564.0
-75°	305.4	320.7	335.8	350.6	367.0	384.7	403.0	424.1	447.2	472.0	495.9
-77.5°	287.9	301.4	315.2	328.8	343.8	359.4	375.4	391.5	409.7	428.9	447.5
-80°	269.1	281.8	294.0	306.2	319.8	333.6	347.9	362.3	378.4	395.0	410.5
-82.5°	248.4	259.6	271.1	282.4	294.9	307.4	320.1	332.7	346.9	361.3	374.5
-85°	228.5	237.2	247.3	257.3	268.8	280.1	291.5	302.7	315.7	328.7	340.2
-87.5°	213.7	222.1	230.3	238.4	248.2	258.0	267.8	277.5	288.9	300.3	310.3
-90°	8.6	8.0	8.0	8.0	7.4	6.8	6.8	6.8	6.3	5.7	5.1



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	298.9	305.2	311.4	316.5	321.6	328.4	335.2	344.3	353.4	362.5	371.6
87.5°	5.5	5.0	4.5	4.4	4.4	4.4	4.4	3.9	3.4	3.4	3.4
85°	6.4	6.3	6.2	5.9	5.5	5.5	5.6	5.5	5.5	5.0	4.5
82.5°	6.8	6.8	6.8	6.3	5.7	5.7	5.7	5.7	5.7	5.1	4.5
80°	7.2	7.1	6.8	6.6	6.4	6.1	5.7	5.3	4.7	4.6	4.5
77.5°	8.1	7.8	7.3	7.1	6.9	6.4	5.8	5.2	4.6	4.5	4.5
75°	9.2	8.8	8.6	8.2	7.6	7.3	7.2	6.9	6.4	6.5	6.6
72.5°	11.0	10.8	10.8	11.1	11.0	11.4	12.0	12.4	12.9	13.8	14.8
70°	16.4	17.5	18.0	18.3	18.3	18.0	18.0	18.3	18.9	19.4	19.9
67.5°	24.0	25.7	26.7	27.1	25.3	24.3	24.4	24.9	25.9	27.4	29.7
65°	31.3	30.8	29.9	29.3	29.5	29.7	29.5	29.9	31.4	33.7	36.6
62.5°	36.7	31.8	28.8	27.3	28.3	30.1	28.9	28.0	29.2	30.7	32.1
60°	41.9	32.8	26.2	24.2	23.8	24.6	22.6	20.8	21.3	21.8	22.6
57.5°	46.9	35.1	24.3	20.7	17.4	15.7	15.2	14.5	14.2	13.8	13.9
55°	51.4	38.2	23.8	21.1	18.8	18.2	16.7	15.9	15.3	15.0	15.3
52.5°	57.0	49.1	39.1	36.3	40.9	41.3	36.5	43.4	48.6	51.0	52.0
50°	93.2	83.5	100.2	98.6	118.2	132.1	127.2	142.6	165.6	180.0	186.0
47.5°	204.8	205.2	238.2	267.5	291.8	323.5	347.8	371.3	404.1	424.4	433.6
45°	388.6	421.6	456.2	506.4	554.7	613.4	684.0	739.6	962.5	1184.5	1386.5
42.5°	594.7	631.0	681.6	791.1	921.3	1222.6	1761.3	2062.0	2437.3	2845.9	3002.7
40°	766.4	819.0	957.9	1266.3	2017.4	2732.5	3518.1	4182.3	4770.3	5108.7	5391.4
37.5°	978.4	1104.1	1736.3	2609.3	3543.1	4439.4	5248.4	5950.4	6559.7	7053.9	7543.0
35°	1287.4	2122.3	3056.3	4191.4	5184.0	6014.3	6852.5	7656.9	8347.9	9086.1	10182.9
32.5°	2440.4	3531.7	4733.2	5750.5	6720.7	7768.3	8649.1	9936.2	10944.2	12289.9	14346.6
30°	3917.0	5286.8	6376.1	7393.7	8637.7	10047.4	11518.2	13486.8	15543.9	17689.8	19898.3
27.5°	5812.9	7196.4	8344.8	9702.2	11344.8	13220.8	16032.6	18807.6	21757.7	24441.2	26480.8
25°	8098.2	9563.3	11526.4	13495.8	15846.5	19052.5	22211.5	25611.5	28569.3	31202.8	34150.8
22.5°	10239.9	12641.6	15233.9	18207.1	22035.0	25651.0	29556.8	32997.5	36709.5	40462.9	43365.7
20°	12048.0	15176.8	18895.6	23181.7	27424.7	31520.8	36066.1	41550.5	47076.7	52013.6	55596.2
17.5°	14487.0	18449.5	23078.5	28173.1	32741.1	37817.2	44143.2	51269.1	59012.5	65864.0	71296.5
15°	17152.0	21779.1	27013.2	32351.3	38130.4	44932.2	53066.6	62167.0	71639.0	81246.1	90196.5
12.5°	18963.8	24384.8	30100.4	36447.6	43655.8	52775.4	62652.8	72741.2	83565.5	95519.0	105901.6
10°	20512.6	26526.7	33422.2	40805.3	49088.0	58891.3	69099.9	81353.6	94864.7	106636.1	117756.9
7.5°	22044.5	29111.4	36314.5	44001.8	53101.8	63749.6	75831.5	89009.9	102760.1	115554.9	124649.0
5°	23857.2	31188.9	38391.5	46511.9	56041.5	67117.2	79861.0	94994.2	109481.4	121242.4	129444.9
2.5°	25356.1	32435.1	39810.3	47847.4	57641.5	69205.4	83036.6	99854.1	114719.4	125716.3	133138.5
0°	26119.3	33233.3	40702.9	48870.3	58910.6	70709.9	85800.4	103467.1	117516.5	127675.5	135624.2
-2.5°	26212.4	32979.6	40311.5	48367.0	58179.8	70213.1	85683.3	103558.7	118244.5	128803.4	136645.7
-5°	25941.5	32645.3	39963.2	48023.5	57703.7	70238.0	85771.0	102959.5	117150.3	128087.4	135473.0
-7.5°	25288.1	32031.4	39362.9	47304.6	56832.5	68988.9	83476.2	99056.5	113653.1	125470.4	132283.6
-10°	24331.0	30956.7	38175.2	45777.5	54762.9	66002.3	78958.6	93222.4	107972.4	119271.3	127128.4
-12.5°	23120.5	29391.2	36291.5	43478.9	51962.4	62433.7	73982.9	85926.8	98291.2	111172.7	119356.3
-15°	21730.7	27460.7	33919.9	41145.9	49533.1	58259.7	67433.6	77164.5	88467.7	99004.4	108530.3
-17.5°	20412.1	25347.0	31373.7	38414.1	45556.1	53138.7	61001.0	68945.7	78009.7	86280.7	93679.9
-20°	18754.8	22956.9	28509.7	34765.4	41402.0	47972.1	54725.4	61161.9	67742.0	74474.3	80350.7



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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°	16801.6	20888.0	25520.9	30967.8	37339.2	43186.7	48595.4	53625.6	58899.8	63558.2	68394.2
-25°	14673.7	18602.8	22860.3	27825.6	32717.6	38018.7	42507.8	46785.5	50876.5	54534.4	58295.0
-27.5°	12060.7	16208.6	20405.3	24379.3	28416.1	32222.4	36407.9	40354.6	43766.4	46784.0	49764.5
-30°	9116.9	13519.5	17489.4	20898.4	24098.7	27273.4	30477.7	33789.4	37019.2	39767.1	42208.3
-32.5°	6726.7	10399.3	14068.8	17409.5	20210.4	22834.2	25326.2	27924.5	30183.5	32503.1	34760.6
-35°	4450.5	7046.3	10092.6	13488.7	16405.9	18613.2	20872.7	22944.3	24647.2	26445.5	28149.8
-37.5°	3745.5	4436.2	6474.1	9231.3	11933.1	14471.3	16724.7	18525.6	20092.9	21529.3	23001.3
-40°	3303.9	3697.9	4277.8	5279.5	7551.7	9784.7	12106.2	14020.4	15690.2	17067.1	18422.3
-42.5°	3014.1	3284.5	3573.3	3967.9	4356.7	5450.4	7356.0	9008.4	10574.4	12125.7	13521.9
-45°	2864.0	3015.7	3181.0	3395.5	3561.8	3858.2	4189.2	4500.1	5746.5	7093.5	8220.9
-47.5°	2683.9	2845.8	2969.2	3070.2	3151.1	3281.3	3418.9	3598.7	3887.3	4227.5	4487.2
-50°	2453.6	2650.1	2773.3	2874.6	2932.7	2983.0	3032.6	3145.3	3301.7	3487.2	3634.4
-52.5°	2155.9	2350.3	2524.8	2656.5	2720.7	2783.3	2845.6	2923.2	3012.1	3119.2	3196.0
-55°	1875.4	2037.8	2188.8	2311.6	2422.4	2523.3	2620.3	2702.4	2798.3	2900.2	2971.8
-57.5°	1609.1	1740.3	1864.1	1970.6	2066.4	2151.3	2250.5	2358.3	2481.0	2597.9	2680.0
-60°	1360.3	1464.6	1567.6	1654.1	1732.1	1801.6	1893.4	1983.8	2091.3	2187.0	2256.8
-62.5°	1137.7	1228.8	1305.0	1370.2	1429.0	1487.2	1564.4	1640.0	1728.4	1804.9	1862.8
-65°	945.3	1021.3	1074.9	1123.3	1165.9	1215.6	1275.2	1335.9	1405.4	1464.8	1512.3
-67.5°	796.9	848.4	882.1	912.0	947.3	986.8	1031.9	1080.4	1134.4	1179.3	1215.7
-70°	684.8	716.8	737.3	759.6	785.4	812.7	843.3	879.7	920.8	955.9	986.0
-72.5°	596.0	620.5	637.4	654.7	670.2	688.9	709.4	736.7	767.0	794.4	819.9
-75°	519.0	536.5	552.3	567.3	580.8	596.6	613.1	636.0	660.9	683.4	704.7
-77.5°	467.3	480.8	491.3	501.4	511.2	524.3	537.8	556.3	575.7	594.4	612.5
-80°	425.8	436.3	445.2	452.5	459.3	470.4	482.0	497.2	512.6	528.8	544.8
-82.5°	387.4	396.6	405.1	412.1	418.5	428.6	438.9	452.5	466.1	479.6	492.9
-85°	351.5	359.8	367.8	374.5	381.1	389.2	397.3	409.0	420.8	433.0	445.1
-87.5°	320.2	328.1	335.9	341.2	346.3	353.6	360.8	370.8	380.8	391.3	401.8
-90°	4.5	4.5	4.5	4.0	3.4	3.4	3.4	2.9	2.3	2.3	2.3



REPORT NUMBER: P701742 (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°
90°	376.2	380.7	383.0	385.2	383.0	380.7	376.2	371.6	362.5	353.4	344.3
87.5°	2.8	2.3	2.3	2.3	2.3	2.3	2.8	3.4	3.4	3.4	3.9
85°	3.9	3.4	3.9	4.5	3.9	3.4	3.9	4.5	5.0	5.5	5.5
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.1	5.7	5.7
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.6	4.7	5.3
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.6	5.2
75°	6.2	5.7	5.7	5.7	5.7	5.7	6.2	6.6	6.5	6.4	6.9
72.5°	15.3	15.6	16.3	17.0	16.3	15.6	15.3	14.8	13.8	12.9	12.4
70°	20.2	20.4	20.5	20.5	20.5	20.4	20.2	19.9	19.4	18.9	18.3
67.5°	30.9	31.4	32.7	34.1	32.7	31.4	30.9	29.7	27.4	25.9	24.9
65°	38.7	40.3	40.8	40.9	40.8	40.3	38.7	36.6	33.7	31.4	29.9
62.5°	33.5	35.0	35.3	35.2	35.3	35.0	33.5	32.1	30.7	29.2	28.0
60°	23.4	24.1	24.5	25.0	24.5	24.1	23.4	22.6	21.8	21.3	20.8
57.5°	14.2	14.9	14.9	14.8	14.9	14.9	14.2	13.9	13.8	14.2	14.5
55°	15.5	15.8	15.5	14.8	15.5	15.8	15.5	15.3	15.0	15.3	15.9
52.5°	50.7	48.1	45.5	43.2	45.5	48.1	50.7	52.0	51.0	48.6	43.4
50°	184.0	181.0	176.6	171.6	176.6	181.0	184.0	186.0	180.0	165.6	142.6
47.5°	441.8	442.8	438.5	430.7	438.5	442.8	441.8	433.6	424.4	404.1	371.3
45°	1562.5	1647.4	1693.2	1725.1	1693.2	1647.4	1562.5	1386.5	1184.5	962.5	739.6
42.5°	3139.8	3259.0	3349.6	3368.3	3349.6	3259.0	3139.8	3002.7	2845.9	2437.3	2062.0
40°	5726.6	5746.5	5414.2	4912.7	5414.2	5746.5	5726.6	5391.4	5108.7	4770.3	4182.3
37.5°	8126.0	8964.4	9938.5	10435.7	9938.5	8964.4	8126.0	7543.0	7053.9	6559.7	5950.4
35°	11662.8	12924.0	13333.2	13343.8	13333.2	12924.0	11662.8	10182.9	9086.1	8347.9	7656.9
32.5°	16201.4	17226.9	17774.5	17625.8	17774.5	17226.9	16201.4	14346.6	12289.9	10944.2	9936.2
30°	21185.2	22077.5	22084.6	21786.2	22084.6	22077.5	21185.2	19898.3	17689.8	15543.9	13486.8
27.5°	28591.8	30477.2	31804.1	32161.6	31804.1	30477.2	28591.8	26480.8	24441.2	21757.7	18807.6
25°	36807.1	38878.8	40152.6	40616.6	40152.6	38878.8	36807.1	34150.8	31202.8	28569.3	25611.5
22.5°	46067.4	48081.7	49001.0	49481.7	49001.0	48081.7	46067.4	43365.7	40462.9	36709.5	32997.5
20°	59011.4	61875.4	62955.0	63416.4	62955.0	61875.4	59011.4	55596.2	52013.6	47076.7	41550.5
17.5°	76941.1	82597.5	86134.2	87950.5	86134.2	82597.5	76941.1	71296.5	65864.0	59012.5	51269.1
15°	96820.6	102562.9	106339.2	108603.7	106339.2	102562.9	96820.6	90196.5	81246.1	71639.0	62167.0
12.5°	113874.7	118993.7	122641.2	124809.5	122641.2	118993.7	113874.7	105901.6	95519.0	83565.5	72741.2
10°	124815.4	129205.5	132989.6	134837.8	132989.6	129205.5	124815.4	117756.9	106636.1	94864.7	81353.6
7.5°	130998.9	136103.4	138154.7	139418.7	138154.7	136103.4	130998.9	124649.0	115554.9	102760.1	89009.9
5°	135791.1	139824.9	141718.6	142642.7	141718.6	139824.9	135791.1	129444.9	121242.4	109481.4	94994.2
2.5°	138990.2	142492.1	143831.3	144576.8	143831.3	142492.1	138990.2	133138.5	125716.3	114719.4	99854.1
0°	140525.5	143107.5	144608.7	143876.8	144608.7	143107.5	140525.5	135624.2	127675.5	117516.5	103467.1
-2.5°	140536.2	142990.4	144106.4	143563.2	144106.4	142990.4	140536.2	136645.7	128803.4	118244.5	103558.7
-5°	139333.9	141165.5	142524.7	142089.2	142524.7	141165.5	139333.9	135473.0	128087.4	117150.3	102959.5
-7.5°	136091.4	138525.8	139521.3	139569.8	139521.3	138525.8	136091.4	132283.6	125470.4	113653.1	99056.5
-10°	131631.0	134329.9	135389.8	135498.0	135389.8	134329.9	131631.0	127128.4	119271.3	107972.4	93222.4
-12.5°	125001.5	128167.6	129693.0	129964.9	129693.0	128167.6	125001.5	119356.3	111172.7	98291.2	85926.8
-15°	114710.3	118977.6	121386.3	122231.5	121386.3	118977.6	114710.3	108530.3	99004.4	88467.7	77164.5
-17.5°	100719.7	105818.4	108821.8	109881.0	108821.8	105818.4	100719.7	93679.9	86280.7	78009.7	68945.7
-20°	86126.3	89906.2	92221.6	93175.7	92221.6	89906.2	86126.3	80350.7	74474.3	67742.0	61161.9



REPORT NUMBER: P701742 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-80-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	72852.1	75899.7	77620.1	78384.1	77620.1	75899.7	72852.1	68394.2	63558.2	58899.8	53625.6
-25°	61339.3	63906.1	64788.3	65285.8	64788.3	63906.1	61339.3	58295.0	54534.4	50876.5	46785.5
-27.5°	51932.6	53968.8	54444.0	54883.1	54444.0	53968.8	51932.6	49764.5	46784.0	43766.4	40354.6
-30°	44006.2	45778.2	46020.5	46506.6	46020.5	45778.2	44006.2	42208.3	39767.1	37019.2	33789.4
-32.5°	36593.6	38171.4	38775.8	38868.8	38775.8	38171.4	36593.6	34760.6	32503.1	30183.5	27924.5
-35°	29495.4	30535.2	30946.7	30971.8	30946.7	30535.2	29495.4	28149.8	26445.5	24647.2	22944.3
-37.5°	23914.5	24577.4	25053.9	24922.7	25053.9	24577.4	23914.5	23001.3	21529.3	20092.9	18525.6
-40°	19181.7	19848.7	20284.2	20178.2	20284.2	19848.7	19181.7	18422.3	17067.1	15690.2	14020.4
-42.5°	14292.1	15025.6	15437.3	15323.4	15437.3	15025.6	14292.1	13521.9	12125.7	10574.4	9008.4
-45°	8863.7	9510.2	9813.5	9628.8	9813.5	9510.2	8863.7	8220.9	7093.5	5746.5	4500.1
-47.5°	4624.2	4771.3	4818.4	4752.5	4818.4	4771.3	4624.2	4487.2	4227.5	3887.3	3598.7
-50°	3749.2	3841.5	3881.2	3869.5	3881.2	3841.5	3749.2	3634.4	3487.2	3301.7	3145.3
-52.5°	3256.4	3299.0	3313.1	3304.7	3313.1	3299.0	3256.4	3196.0	3119.2	3012.1	2923.2
-55°	3032.3	3074.7	3089.3	3084.2	3089.3	3074.7	3032.3	2971.8	2900.2	2798.3	2702.4
-57.5°	2748.3	2800.2	2832.4	2849.0	2832.4	2800.2	2748.3	2680.0	2597.9	2481.0	2358.3
-60°	2312.9	2354.5	2366.5	2360.3	2366.5	2354.5	2312.9	2256.8	2187.0	2091.3	1983.8
-62.5°	1908.4	1942.5	1968.1	1985.3	1968.1	1942.5	1908.4	1862.8	1804.9	1728.4	1640.0
-65°	1547.2	1571.9	1577.1	1572.8	1577.1	1571.9	1547.2	1512.3	1464.8	1405.4	1335.9
-67.5°	1241.2	1259.6	1262.0	1258.0	1262.0	1259.6	1241.2	1215.7	1179.3	1134.4	1080.4
-70°	1006.3	1021.8	1023.9	1021.6	1023.9	1021.8	1006.3	986.0	955.9	920.8	879.7
-72.5°	834.7	845.9	854.5	861.4	854.5	845.9	834.7	819.9	794.4	767.0	736.7
-75°	715.5	723.6	725.7	726.2	725.7	723.6	715.5	704.7	683.4	660.9	636.0
-77.5°	622.0	630.1	635.9	640.9	635.9	630.1	622.0	612.5	594.4	575.7	556.3
-80°	551.9	558.1	562.8	567.1	562.8	558.1	551.9	544.8	528.8	512.6	497.2
-82.5°	499.7	506.1	510.1	513.7	510.1	506.1	499.7	492.9	479.6	466.1	452.5
-85°	450.3	455.3	459.0	462.5	459.0	455.3	450.3	445.1	433.0	420.8	409.0
-87.5°	406.6	411.3	413.6	415.9	413.6	411.3	406.6	401.8	391.3	380.8	370.8
-90°	1.7	1.1	1.1	1.1	1.1	1.1	1.7	2.3	2.3	2.3	2.9



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	335.2	328.4	321.6	316.5	311.4	305.2	298.9	289.3	279.6	269.4	259.1
87.5°	4.4	4.4	4.4	4.4	4.5	5.0	5.5	5.6	5.7	6.3	6.8
85°	5.6	5.5	5.5	5.9	6.2	6.3	6.4	6.3	6.3	6.8	7.3
82.5°	5.7	5.7	5.7	6.3	6.8	6.8	6.8	7.0	7.2	7.6	8.1
80°	5.7	6.1	6.4	6.6	6.8	7.1	7.2	7.6	8.0	8.0	8.1
77.5°	5.8	6.4	6.9	7.1	7.3	7.8	8.1	8.0	8.1	8.5	8.7
75°	7.2	7.3	7.6	8.2	8.6	8.8	9.2	9.4	9.4	9.3	9.6
72.5°	12.0	11.4	11.0	11.1	10.8	10.8	11.0	11.1	11.2	10.7	10.4
70°	18.0	18.0	18.3	18.3	18.0	17.5	16.4	15.0	14.0	13.8	12.9
67.5°	24.4	24.3	25.3	27.1	26.7	25.7	24.0	22.2	20.5	19.1	16.5
65°	29.5	29.7	29.5	29.3	29.9	30.8	31.3	29.6	29.8	27.1	21.7
62.5°	28.9	30.1	28.3	27.3	28.8	31.8	36.7	39.2	41.4	38.9	32.6
60°	22.6	24.6	23.8	24.2	26.2	32.8	41.9	49.0	55.0	51.1	43.7
57.5°	15.2	15.7	17.4	20.7	24.3	35.1	46.9	57.8	65.6	60.9	54.6
55°	16.7	18.2	18.8	21.1	23.8	38.2	51.4	62.8	70.9	68.7	62.3
52.5°	36.5	41.3	40.9	36.3	39.1	49.1	57.0	69.8	76.9	76.8	71.4
50°	127.2	132.1	118.2	98.6	100.2	83.5	93.2	95.6	93.0	93.7	85.7
47.5°	347.8	323.5	291.8	267.5	238.2	205.2	204.8	167.0	162.2	130.9	125.3
45°	684.0	613.4	554.7	506.4	456.2	421.6	388.6	368.6	292.0	262.9	189.1
42.5°	1761.3	1222.6	921.3	791.1	681.6	631.0	594.7	570.2	535.7	445.1	373.0
40°	3518.1	2732.5	2017.4	1266.3	957.9	819.0	766.4	708.9	702.9	656.1	561.4
37.5°	5248.4	4439.4	3543.1	2609.3	1736.3	1104.1	978.4	892.2	828.6	811.2	743.0
35°	6852.5	6014.3	5184.0	4191.4	3056.3	2122.3	1287.4	1134.7	1012.3	940.5	899.6
32.5°	8649.1	7768.3	6720.7	5750.5	4733.2	3531.7	2440.4	1511.9	1241.5	1117.2	1021.0
30°	11518.2	10047.4	8637.7	7393.7	6376.1	5286.8	3917.0	2527.8	1600.8	1300.2	1149.6
27.5°	16032.6	13220.8	11344.8	9702.2	8344.8	7196.4	5812.9	3964.4	2206.2	1586.9	1317.7
25°	22211.5	19052.5	15846.5	13495.8	11526.4	9563.3	8098.2	5861.7	3608.7	1927.7	1505.4
22.5°	29556.8	25651.0	22035.0	18207.1	15233.9	12641.6	10239.9	7780.3	5072.5	2709.3	1824.3
20°	36066.1	31520.8	27424.7	23181.7	18895.6	15176.8	12048.0	9473.3	6648.2	3945.6	2134.1
17.5°	44143.2	37817.2	32741.1	28173.1	23078.5	18449.5	14487.0	11282.3	8119.9	4977.7	2388.1
15°	53066.6	44932.2	38130.4	32351.3	27013.2	21779.1	17152.0	13216.5	9763.3	6069.1	3137.4
12.5°	62652.8	52775.4	43655.8	36447.6	30100.4	24384.8	18963.8	14898.0	11289.1	7381.3	3962.9
10°	69099.9	58891.3	49088.0	40805.3	33422.2	26526.7	20512.6	15935.8	12280.7	8530.0	4771.1
7.5°	75831.5	63749.6	53101.8	44001.8	36314.5	29111.4	22044.5	16737.7	13043.4	9387.7	5398.9
5°	79861.0	67117.2	56041.5	46511.9	38391.5	31188.9	23857.2	17451.9	13673.6	10031.3	5878.8
2.5°	83036.6	69205.4	57641.5	47847.4	39810.3	32435.1	25356.1	18154.3	14012.7	10333.6	6012.3
0°	85800.4	70709.9	58910.6	48870.3	40702.9	33233.3	26119.3	18838.3	14115.4	10408.4	5988.9
-2.5°	85683.3	70213.1	58179.8	48367.0	40311.5	32979.6	26212.4	19717.9	14834.9	10471.6	5997.7
-5°	85771.0	70238.0	57703.7	48023.5	39963.2	32645.3	25941.5	19975.0	15213.6	10386.1	5861.4
-7.5°	83476.2	68988.9	56832.5	47304.6	39362.9	32031.4	25288.1	19651.7	15230.9	10390.9	5639.7
-10°	78958.6	66002.3	54762.9	45777.5	38175.2	30956.7	24331.0	19119.0	14818.6	9978.4	5258.9
-12.5°	73982.9	62433.7	51962.4	43478.9	36291.5	29391.2	23120.5	18357.4	14068.0	9204.6	4886.3
-15°	67433.6	58259.7	49533.1	41145.9	33919.9	27460.7	21730.7	17399.7	13115.7	8200.1	4307.4
-17.5°	61001.0	53138.7	45556.1	38414.1	31373.7	25347.0	20412.1	16138.8	11760.8	7052.8	3548.2
-20°	54725.4	47972.1	41402.0	34765.4	28509.7	22956.9	18754.8	14607.8	10066.9	5928.4	3425.0



REPORT NUMBER: P701742 (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°	48595.4	43186.7	37339.2	30967.8	25520.9	20888.0	16801.6	12712.5	8131.8	4606.2	3261.0
-25°	42507.8	38018.7	32717.6	27825.6	22860.3	18602.8	14673.7	10366.5	6476.1	3829.8	3042.1
-27.5°	36407.9	32222.4	28416.1	24379.3	20405.3	16208.6	12060.7	7922.3	4636.5	3477.4	2920.7
-30°	30477.7	27273.4	24098.7	20898.4	17489.4	13519.5	9116.9	5812.8	3840.5	3143.9	2763.7
-32.5°	25326.2	22834.2	20210.4	17409.5	14068.8	10399.3	6726.7	4193.3	3384.0	2957.2	2667.6
-35°	20872.7	18613.2	16405.9	13488.7	10092.6	7046.3	4450.5	3623.1	3105.6	2777.0	2581.4
-37.5°	16724.7	14471.3	11933.1	9231.3	6474.1	4436.2	3745.5	3238.3	2869.7	2663.5	2466.4
-40°	12106.2	9784.7	7551.7	5279.5	4277.8	3697.9	3303.9	2972.7	2751.8	2536.9	2342.1
-42.5°	7356.0	5450.4	4356.7	3967.9	3573.3	3284.5	3014.1	2825.5	2622.4	2416.9	2155.9
-45°	4189.2	3858.2	3561.8	3395.5	3181.0	3015.7	2864.0	2675.3	2487.4	2221.4	1944.3
-47.5°	3418.9	3281.3	3151.1	3070.2	2969.2	2845.8	2683.9	2504.2	2247.3	1985.3	1752.9
-50°	3032.6	2983.0	2932.7	2874.6	2773.3	2650.1	2453.6	2225.2	1992.2	1777.5	1562.6
-52.5°	2845.6	2783.3	2720.7	2656.5	2524.8	2350.3	2155.9	1955.5	1753.4	1565.8	1377.5
-55°	2620.3	2523.3	2422.4	2311.6	2188.8	2037.8	1875.4	1696.3	1524.7	1353.4	1209.8
-57.5°	2250.5	2151.3	2066.4	1970.6	1864.1	1740.3	1609.1	1454.5	1309.5	1176.9	1052.1
-60°	1893.4	1801.6	1732.1	1654.1	1567.6	1464.6	1360.3	1240.8	1112.5	1006.6	904.7
-62.5°	1564.4	1487.2	1429.0	1370.2	1305.0	1228.8	1137.7	1046.4	944.2	847.7	776.3
-65°	1275.2	1215.6	1165.9	1123.3	1074.9	1021.3	945.3	875.8	801.6	728.4	665.7
-67.5°	1031.9	986.8	947.3	912.0	882.1	848.4	796.9	740.4	686.2	635.9	593.4
-70°	843.3	812.7	785.4	759.6	737.3	716.8	684.8	646.4	603.2	561.3	525.5
-72.5°	709.4	688.9	670.2	654.7	637.4	620.5	596.0	564.0	529.6	493.9	464.1
-75°	613.1	596.6	580.8	567.3	552.3	536.5	519.0	495.9	472.0	447.2	424.1
-77.5°	537.8	524.3	511.2	501.4	491.3	480.8	467.3	447.5	428.9	409.7	391.5
-80°	482.0	470.4	459.3	452.5	445.2	436.3	425.8	410.5	395.0	378.4	362.3
-82.5°	438.9	428.6	418.5	412.1	405.1	396.6	387.4	374.5	361.3	346.9	332.7
-85°	397.3	389.2	381.1	374.5	367.8	359.8	351.5	340.2	328.7	315.7	302.7
-87.5°	360.8	353.6	346.3	341.2	335.9	328.1	320.2	310.3	300.3	288.9	277.5
-90°	3.4	3.4	3.4	4.0	4.5	4.5	4.5	5.1	5.7	6.3	6.8



REPORT NUMBER: P701742 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-80-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	249.5	239.8	230.7	221.6	214.2	206.8	198.9	190.9	177.9	164.8	146.6
87.5°	7.2	7.6	8.1	8.6	8.6	8.6	9.1	9.6	9.8	9.9	10.3
85°	7.8	8.3	8.7	9.1	9.2	9.1	9.6	10.0	10.4	10.7	11.0
82.5°	8.6	9.0	9.0	9.2	9.9	10.3	10.3	10.6	11.1	11.5	11.8
80°	8.6	9.2	9.4	9.6	10.5	11.4	11.1	11.1	11.8	12.3	12.4
77.5°	9.1	9.4	9.8	10.2	10.8	11.5	11.6	11.7	12.5	13.0	13.1
75°	9.9	10.1	10.1	10.5	11.2	11.6	11.9	12.3	13.1	13.8	13.8
72.5°	10.8	10.7	10.5	10.8	11.7	12.3	12.6	12.9	13.7	14.4	14.6
70°	12.1	11.6	11.2	11.6	12.3	13.1	13.6	14.0	14.2	15.0	15.4
67.5°	13.6	12.9	12.3	12.5	13.1	14.2	14.7	15.2	15.5	15.8	16.3
65°	18.8	16.4	13.6	14.3	14.4	15.5	16.3	16.9	16.9	17.3	17.3
62.5°	26.3	22.2	19.8	17.4	17.1	18.5	18.3	19.7	18.7	19.0	18.8
60°	36.0	29.6	26.7	24.1	22.6	22.5	23.2	22.9	22.6	20.8	20.6
57.5°	45.0	36.5	35.6	32.2	31.2	29.5	29.8	29.1	27.3	25.6	22.5
55°	53.3	46.0	46.1	43.6	42.5	39.2	38.9	37.5	33.9	31.7	24.9
52.5°	61.8	59.1	58.3	59.1	58.2	52.2	51.7	46.8	44.1	38.5	31.3
50°	74.9	77.4	74.7	79.1	76.6	72.9	65.5	60.5	55.0	46.8	38.2
47.5°	108.8	110.7	102.2	105.5	101.5	96.1	86.3	75.8	66.5	57.4	45.4
45°	189.0	162.6	152.4	142.5	133.7	126.5	110.9	91.9	81.3	68.2	52.6
42.5°	299.1	263.0	234.5	185.5	181.9	161.8	138.5	116.4	96.6	79.5	61.4
40°	471.6	404.5	342.5	288.1	241.9	200.9	175.0	143.5	112.6	91.9	71.4
37.5°	655.2	570.2	488.7	405.2	321.3	264.2	215.4	172.2	131.7	106.3	81.7
35°	818.7	743.0	630.5	533.3	437.0	330.5	258.9	205.4	157.6	121.1	92.0
32.5°	959.1	886.6	764.1	656.1	530.8	398.4	313.6	243.1	184.0	136.3	102.9
30°	1071.9	989.4	886.7	753.6	609.0	475.2	370.8	280.1	210.8	151.8	114.4
27.5°	1182.0	1088.5	994.8	843.0	681.8	541.0	418.4	316.3	238.0	169.2	126.9
25°	1313.7	1192.0	1088.9	940.3	753.1	594.1	461.0	351.9	267.1	189.3	139.0
22.5°	1478.1	1293.8	1184.3	1042.5	834.6	646.6	502.7	389.5	292.2	208.3	150.5
20°	1621.8	1384.0	1275.6	1137.5	923.0	713.6	545.7	420.9	316.0	226.2	161.5
17.5°	1773.3	1478.5	1334.3	1205.0	1009.1	781.1	590.7	450.6	338.3	242.8	171.9
15°	1976.7	1580.6	1387.9	1263.3	1082.6	846.0	634.8	478.7	359.1	258.2	182.0
12.5°	2143.8	1675.7	1440.9	1309.0	1139.7	904.8	676.9	505.1	378.2	273.6	192.0
10°	2304.7	1777.2	1498.5	1352.2	1187.7	957.6	716.7	533.0	400.8	289.0	201.3
7.5°	2481.9	1872.8	1554.0	1393.5	1228.3	1001.5	757.6	566.3	422.7	303.2	210.0
5°	2625.2	1957.7	1611.2	1439.6	1267.3	1035.3	794.5	597.7	443.0	316.1	218.0
2.5°	2666.5	2028.8	1666.9	1483.1	1300.5	1061.8	826.9	626.5	461.3	327.6	225.3
0°	2677.4	2086.5	1717.1	1521.7	1327.3	1081.9	854.6	652.3	477.3	337.5	231.8
-2.5°	2734.1	2133.1	1762.0	1577.1	1375.3	1107.8	870.3	665.6	490.9	349.1	241.2
-5°	2765.6	2165.8	1801.8	1626.3	1414.8	1127.2	881.3	675.5	501.8	358.9	249.8
-7.5°	2783.4	2189.5	1838.0	1667.1	1443.8	1139.4	887.5	681.9	510.1	366.8	257.4
-10°	2774.8	2200.9	1869.0	1690.1	1457.4	1151.0	890.7	685.0	515.7	372.9	264.0
-12.5°	2787.5	2203.6	1893.8	1707.1	1462.2	1161.7	901.5	689.8	518.6	377.1	269.5
-15°	2787.9	2230.5	1933.7	1721.2	1459.6	1164.5	905.7	692.2	519.4	379.3	274.0
-17.5°	2724.6	2232.8	1970.7	1741.5	1451.3	1159.2	902.9	689.3	517.2	379.9	277.9
-20°	2706.1	2251.2	1991.7	1751.5	1433.1	1147.3	893.0	680.8	511.9	378.5	281.2



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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°	2680.7	2291.7	2015.8	1729.4	1407.1	1128.7	878.7	667.2	503.4	375.1	283.4
-25°	2602.1	2317.7	2027.0	1703.9	1379.3	1108.1	861.7	655.3	491.8	369.8	284.6
-27.5°	2555.8	2305.3	2020.3	1661.7	1349.6	1078.8	843.9	646.5	483.9	362.5	284.8
-30°	2527.6	2267.2	1960.5	1606.9	1305.9	1043.7	821.3	632.9	477.6	359.4	284.0
-32.5°	2462.4	2221.6	1870.2	1544.6	1257.2	1002.5	793.7	614.0	468.1	359.1	283.3
-35°	2364.3	2107.1	1763.3	1465.9	1203.1	966.2	762.5	589.9	455.2	357.1	282.3
-37.5°	2250.1	1946.6	1665.8	1382.7	1133.5	921.3	730.7	567.9	439.0	353.3	280.5
-40°	2071.1	1789.5	1534.8	1294.7	1064.3	865.6	693.6	546.8	429.2	347.7	277.6
-42.5°	1884.4	1634.5	1405.5	1190.1	990.3	812.7	652.9	522.0	421.1	342.2	273.5
-45°	1706.4	1478.5	1274.8	1089.3	911.4	755.4	620.1	496.0	410.7	336.1	269.6
-47.5°	1527.6	1333.0	1151.2	983.3	842.2	698.5	580.5	481.5	398.1	328.6	266.4
-50°	1364.3	1190.8	1031.0	888.6	761.3	650.7	542.5	464.3	386.8	319.0	262.3
-52.5°	1209.1	1055.4	918.4	793.9	693.6	599.3	516.6	443.5	373.4	310.9	257.2
-55°	1062.6	929.1	810.3	712.5	627.4	559.7	488.1	422.7	357.9	303.0	251.6
-57.5°	929.6	808.3	721.0	639.3	574.0	519.7	460.3	399.9	345.7	293.9	248.8
-60°	802.3	717.9	640.7	581.1	528.3	480.8	432.1	378.2	333.7	284.8	244.8
-62.5°	701.7	632.7	580.5	529.9	484.4	443.6	403.9	360.9	319.9	279.0	240.0
-65°	619.1	571.0	523.2	482.4	442.4	408.6	381.4	342.5	309.1	272.4	234.4
-67.5°	551.6	511.8	472.4	435.5	407.4	382.7	357.1	328.3	298.9	265.1	227.7
-70°	490.8	455.4	426.9	402.7	379.4	357.5	339.3	315.4	288.0	256.1	220.4
-72.5°	440.8	417.4	393.8	372.0	355.7	339.3	322.6	301.7	275.6	246.4	212.4
-75°	403.0	384.7	367.0	350.6	335.8	320.7	305.4	287.3	262.7	236.1	203.2
-77.5°	375.4	359.4	343.8	328.8	315.2	301.4	287.9	272.3	248.9	223.8	193.1
-80°	347.9	333.6	319.8	306.2	294.0	281.8	269.1	254.9	233.1	210.9	182.5
-82.5°	320.1	307.4	294.9	282.4	271.1	259.6	248.4	236.3	216.9	197.4	172.5
-85°	291.5	280.1	268.8	257.3	247.3	237.2	228.5	219.2	203.0	186.7	164.2
-87.5°	267.8	258.0	248.2	238.4	230.3	222.1	213.7	205.2	190.6	175.9	155.5
-90°	6.8	6.8	7.4	8.0	8.0	8.0	8.6	9.1	9.1	9.1	9.7



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	128.4	106.2	84.1	60.2	36.4	24.4	12.5
87.5°	10.8	10.7	10.6	10.6	10.5	11.6	12.5
85°	11.4	11.2	11.0	10.9	10.8	11.9	12.5
82.5°	12.0	11.7	11.4	11.3	11.1	12.1	12.5
80°	12.6	12.2	11.8	11.7	11.4	12.4	12.5
77.5°	13.2	12.8	12.2	12.1	11.8	12.6	12.5
75°	13.8	13.5	12.7	12.5	12.1	12.9	12.5
72.5°	14.5	14.3	13.5	12.8	12.5	13.1	12.5
70°	15.3	15.1	14.3	13.3	12.8	13.4	12.5
67.5°	16.3	15.9	15.1	13.9	13.2	13.7	12.5
65°	17.3	16.8	15.9	14.6	13.6	14.0	12.5
62.5°	18.3	17.8	16.7	15.3	14.1	14.2	12.5
60°	19.4	18.7	17.6	15.9	14.5	14.5	12.5
57.5°	21.6	19.7	18.7	16.6	15.3	14.8	12.5
55°	24.1	20.7	19.9	17.2	16.0	15.1	12.5
52.5°	26.8	22.0	21.3	17.9	16.9	15.3	12.5
50°	29.7	25.2	22.7	18.5	17.7	15.6	12.5
47.5°	33.3	28.5	24.2	19.3	18.7	15.9	12.5
45°	39.6	32.0	25.9	20.6	19.6	16.2	12.5
42.5°	45.9	35.6	27.6	21.8	20.6	16.5	12.5
40°	52.6	39.4	30.0	23.7	21.7	16.8	12.5
37.5°	59.8	43.3	33.0	26.0	22.7	17.0	12.5
35°	67.1	48.6	36.0	28.3	23.9	17.3	12.5
32.5°	75.0	54.4	39.0	30.7	25.0	17.6	12.5
30°	84.1	60.1	42.1	33.2	26.2	17.9	12.5
27.5°	93.1	65.8	46.3	35.6	27.4	18.1	12.5
25°	101.8	71.4	50.5	38.1	28.6	18.4	12.5
22.5°	110.3	77.2	54.6	40.6	29.8	18.6	12.5
20°	118.5	83.3	58.7	43.1	31.0	18.9	12.5
17.5°	126.6	89.3	62.6	45.5	32.2	19.1	12.5
15°	134.5	94.9	66.5	48.0	33.4	19.4	12.5
12.5°	142.0	100.3	70.2	50.4	34.6	19.6	12.5
10°	148.9	105.4	73.7	52.8	35.7	19.8	12.5
7.5°	155.4	110.2	77.1	55.1	36.8	20.0	12.5
5°	161.3	114.7	80.4	57.3	37.9	20.2	12.5
2.5°	166.7	118.9	83.5	59.4	38.9	20.3	12.5
0°	171.6	122.7	86.4	61.4	39.8	20.5	12.5
-2.5°	178.9	128.3	90.4	64.1	41.5	21.3	12.5
-5°	185.6	133.6	94.2	66.7	43.1	22.1	12.5
-7.5°	191.7	138.4	97.8	69.1	44.7	22.8	12.5
-10°	197.1	142.8	101.1	71.4	46.1	23.5	12.5
-12.5°	201.8	146.7	104.2	73.5	47.5	24.2	12.5
-15°	205.7	150.1	107.0	75.5	48.7	24.9	12.5
-17.5°	208.9	153.0	109.5	77.3	49.9	25.5	12.5
-20°	211.8	155.4	111.7	78.9	50.9	26.1	12.5



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	214.7	157.3	113.6	80.4	51.9	26.7	12.5
-25°	216.8	159.5	115.2	81.6	52.7	27.2	12.5
-27.5°	218.1	161.6	116.4	82.7	53.4	27.7	12.5
-30°	218.5	163.2	117.5	83.6	54.0	28.1	12.5
-32.5°	218.0	164.2	119.5	84.3	54.5	28.5	12.5
-35°	218.1	164.7	121.1	84.8	54.9	28.8	12.5
-37.5°	218.1	165.2	122.4	85.1	55.2	29.1	12.5
-40°	217.4	166.5	123.4	85.2	55.3	29.4	12.5
-42.5°	216.2	167.3	124.3	85.4	55.3	29.6	12.5
-45°	214.3	167.7	125.0	85.9	55.2	29.7	12.5
-47.5°	211.7	167.7	125.2	86.1	54.9	29.8	12.5
-50°	210.7	167.3	125.0	86.2	54.6	29.9	12.5
-52.5°	209.6	166.4	124.4	86.1	54.1	29.8	12.5
-55°	207.8	164.9	123.5	85.7	53.5	29.8	12.5
-57.5°	205.6	162.9	122.1	85.0	52.8	29.7	12.5
-60°	202.7	160.4	120.3	84.2	51.9	29.5	12.5
-62.5°	198.9	157.5	118.6	83.1	51.2	29.3	12.5
-65°	194.5	154.1	116.6	81.7	50.4	29.1	12.5
-67.5°	189.6	150.4	114.2	80.2	49.5	28.8	12.5
-70°	184.2	146.4	111.6	78.4	48.4	28.5	12.5
-72.5°	177.7	141.9	108.6	76.7	47.2	28.1	12.5
-75°	170.6	136.9	105.4	74.9	45.9	27.7	12.5
-77.5°	162.9	131.5	102.3	72.8	44.5	27.2	12.5
-80°	154.7	126.6	99.1	70.6	43.0	26.7	12.5
-82.5°	148.4	121.9	95.7	68.3	41.5	26.2	12.5
-85°	142.0	116.9	92.0	65.8	39.9	25.6	12.5
-87.5°	135.3	111.7	88.2	63.1	38.2	25.1	12.5
-90°	10.2	10.2	10.2	10.2	10.2	11.4	12.5

(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

