

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: P731641 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-80-7F-VHE**

Issue Date: 11/16/2023

Test Information

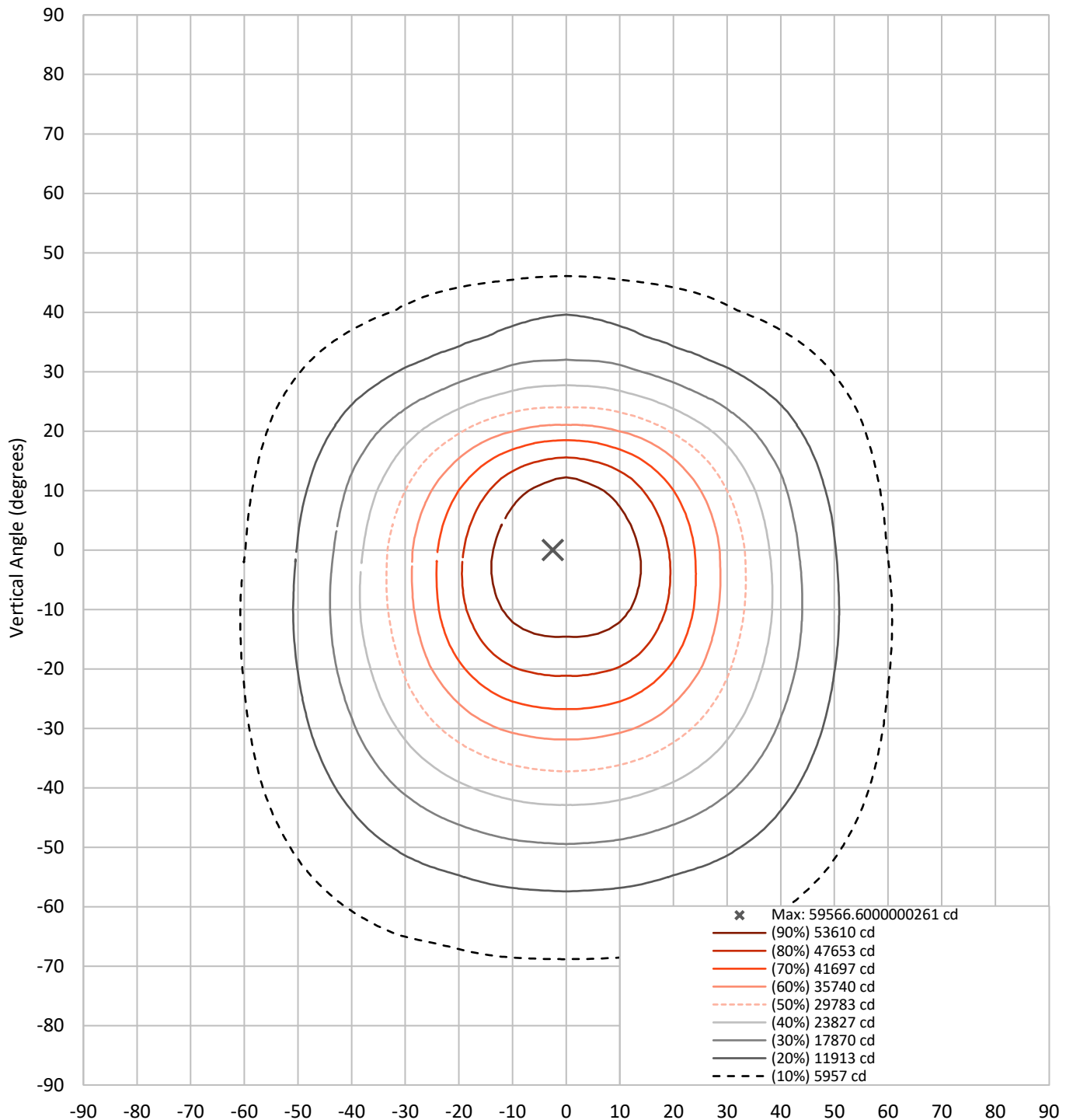
Test Method: LM-79-08
Report Number: P731641 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-6)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680N-40-80-7F-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 7F BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	79245.4 lumens	Max Intensity:	59566.6 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	113.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	66.6°H x 61.2°V	Field Angle (10%):	119.6°H x 114.9°V
Beam Lumens:	43026.4 lumens	Field Lumens:	74260.2 lumens
Beam Efficiency:	54.3%	Field Efficiency:	93.7%
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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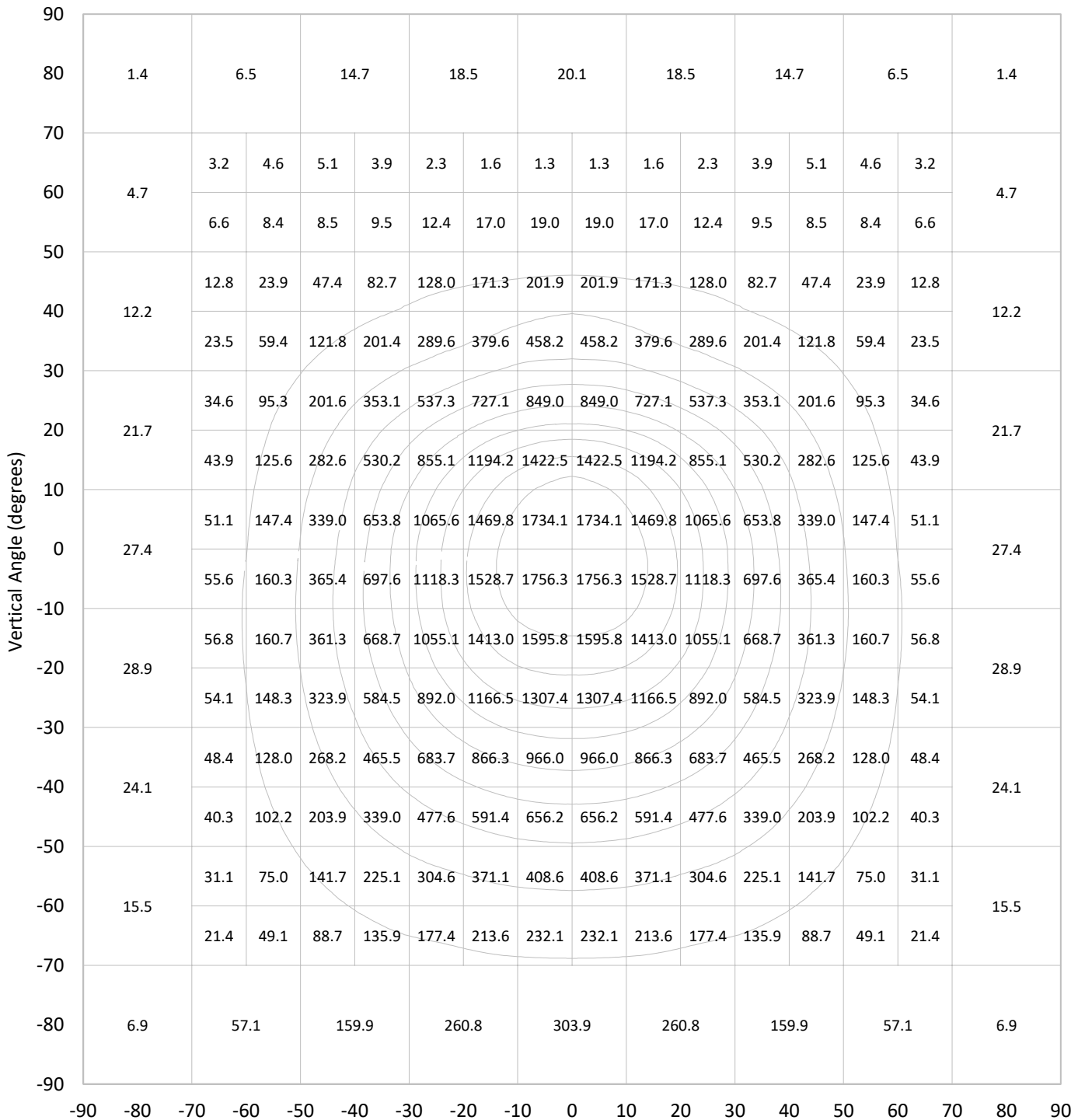
Iso-Candela Plot





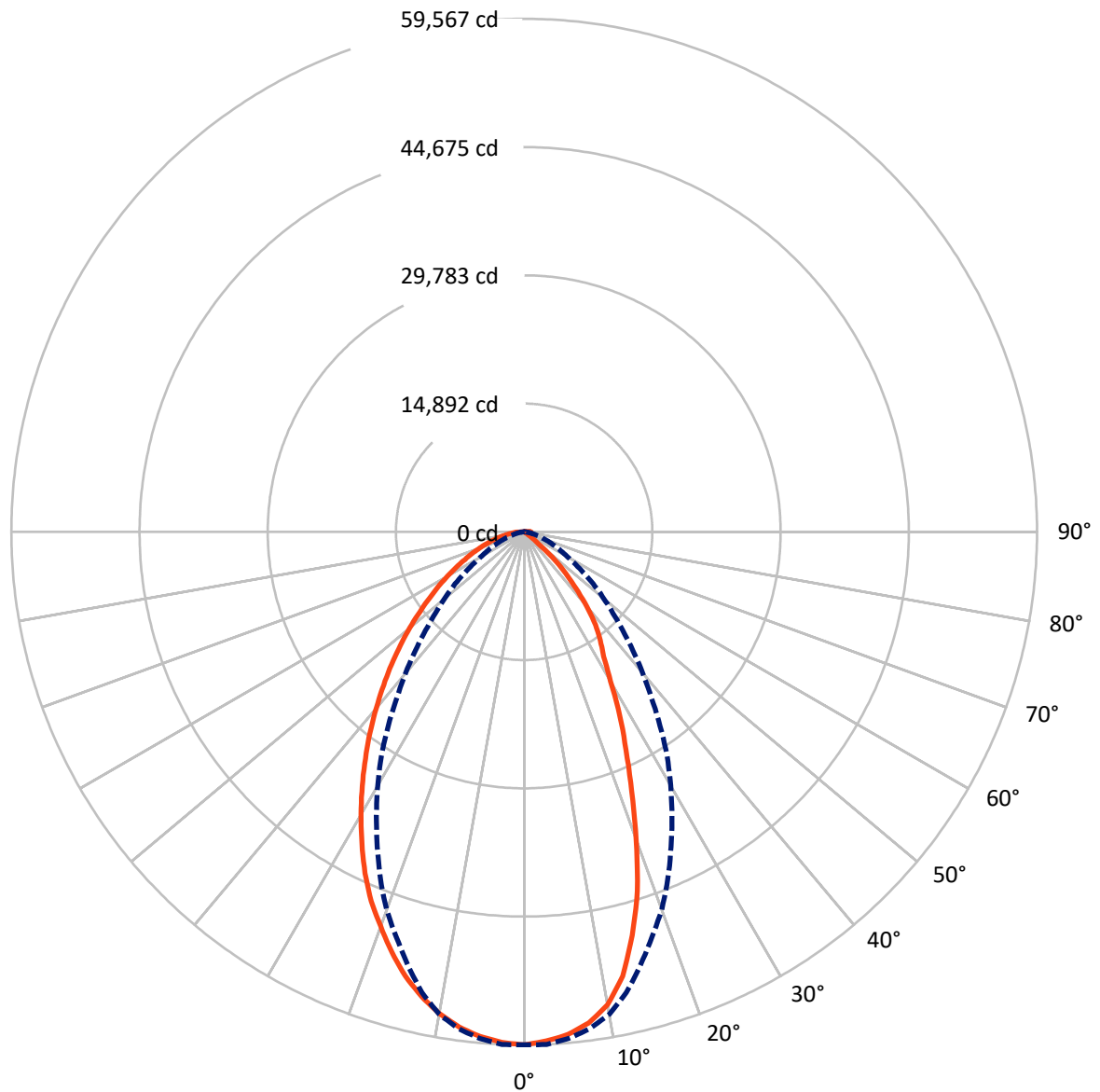
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Lumen Table



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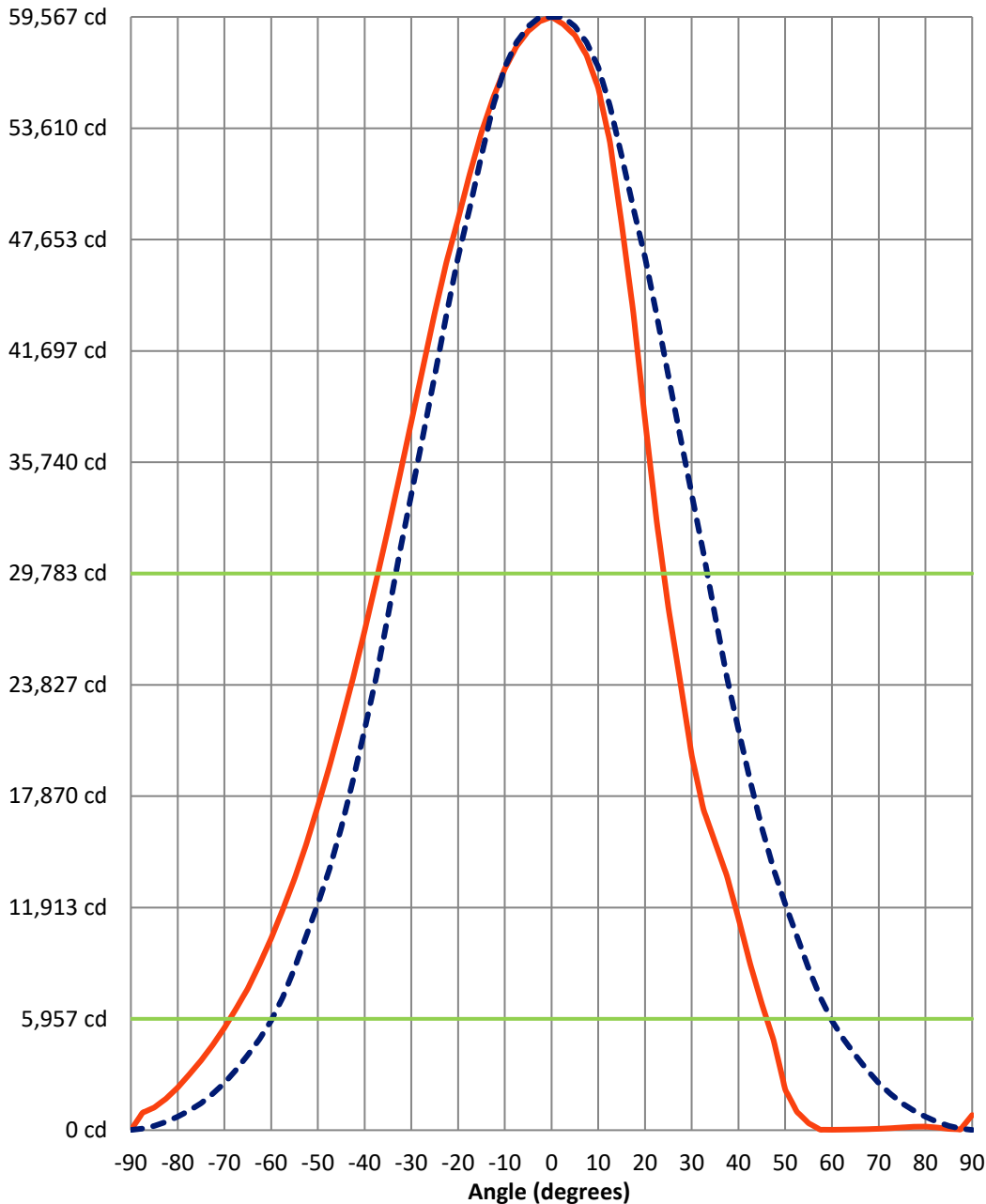
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 66.6°
 V Angle: 61.2°
 Lumens: 43026.4
 Efficiency: 54.3%

Field:
 H Angle: 119.6°
 V Angle: 114.9°
 Lumens: 74260.2
 Efficiency: 93.7%

Spill:
 Lumens: 4985.3
 Efficiency: 6.3%

— 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°	13.0	45.4	77.8	120.4	163.1	205.7	248.3	279.3	310.4	341.4	372.4
87.5°	13.0	16.5	18.8	20.4	21.7	22.7	23.4	23.4	23.1	22.5	21.6
85°	13.0	19.1	22.9	26.0	28.6	30.7	32.1	32.5	32.4	31.6	30.3
82.5°	13.0	21.6	26.9	31.7	35.6	38.6	40.8	41.7	42.4	45.5	47.9
80°	13.0	24.2	31.0	37.3	42.5	46.6	50.4	56.9	62.4	67.1	70.8
77.5°	13.0	26.8	35.0	42.8	49.4	57.7	67.1	75.2	82.5	88.7	91.5
75°	13.0	29.3	39.1	48.4	58.0	74.8	84.2	93.4	102.9	109.2	106.1
72.5°	13.0	31.9	43.2	54.0	74.0	92.1	101.6	113.9	127.7	130.5	122.5
70°	13.0	34.4	47.4	61.0	90.2	109.7	121.0	141.5	153.7	153.8	157.3
67.5°	13.0	36.9	51.6	74.7	106.5	127.6	150.6	169.9	181.3	197.1	198.4
65°	13.0	39.4	55.8	88.3	122.9	151.1	181.0	199.3	226.7	242.3	245.6
62.5°	13.0	41.8	60.0	101.9	139.4	180.2	212.3	240.1	273.5	292.3	304.7
60°	13.0	44.3	64.3	115.5	156.0	209.7	244.5	286.1	321.8	355.4	367.7
57.5°	13.0	46.7	74.1	129.0	181.4	239.7	288.7	333.9	382.8	421.6	441.2
55°	13.0	49.1	83.9	142.4	207.3	270.2	335.3	385.0	448.7	493.5	523.4
52.5°	13.0	51.4	93.5	155.8	233.3	302.8	382.8	449.3	516.7	578.9	611.7
50°	13.0	53.7	103.0	169.1	259.3	344.4	431.1	516.6	591.0	668.8	722.8
47.5°	13.0	56.0	112.3	183.9	285.4	386.2	481.7	585.3	677.8	763.3	845.5
45°	13.0	58.2	121.4	203.6	311.4	428.1	542.4	655.3	771.6	885.3	978.1
42.5°	13.0	60.4	130.2	222.9	337.3	470.1	603.5	734.6	868.4	1014.7	1156.4
40°	13.0	62.5	138.9	242.0	366.8	512.2	664.9	820.8	973.9	1150.2	1354.7
37.5°	13.0	64.6	147.3	260.7	399.4	554.1	726.5	908.1	1091.8	1295.2	1567.0
35°	13.0	66.6	155.4	278.7	431.5	601.0	788.1	996.4	1208.6	1464.0	1803.7
32.5°	13.0	68.5	163.2	296.1	463.0	649.9	852.8	1085.4	1324.1	1626.0	2012.2
30°	13.0	70.4	170.7	312.7	493.7	697.9	924.9	1176.3	1437.9	1780.9	2207.7
27.5°	13.0	72.1	177.9	328.7	521.7	745.0	996.2	1271.2	1557.0	1928.3	2389.9
25°	13.0	73.8	184.8	343.8	548.2	790.9	1066.3	1363.5	1682.4	2078.8	2559.5
22.5°	13.0	75.5	191.2	358.1	573.3	833.3	1134.8	1453.0	1801.0	2224.0	2737.9
20°	13.0	77.0	197.3	371.6	596.8	868.5	1201.5	1539.3	1912.6	2357.8	2906.1
17.5°	13.0	78.4	203.0	384.1	618.9	901.0	1253.9	1622.1	2017.1	2480.3	3063.6
15°	13.0	79.7	208.3	395.7	639.2	930.9	1294.6	1691.7	2114.4	2591.5	3209.7
12.5°	13.0	80.9	213.1	406.3	657.9	957.9	1330.6	1746.1	2200.1	2691.7	3343.7
10°	13.0	82.0	217.4	415.8	674.7	982.1	1361.8	1796.5	2277.0	2809.5	3480.2
7.5°	13.0	83.0	221.3	424.3	689.7	1003.3	1388.3	1842.5	2348.3	2926.1	3635.7
5°	13.0	83.9	224.7	431.6	702.7	1021.5	1410.1	1883.4	2413.2	3036.0	3778.0
2.5°	13.0	84.6	227.5	437.8	713.7	1036.7	1427.2	1918.6	2470.7	3137.2	3906.0
0°	13.0	85.2	229.8	442.8	722.6	1048.7	1439.7	1947.4	2519.9	3227.7	4018.9
-2.5°	13.0	86.9	233.3	449.5	734.4	1068.3	1474.3	1995.2	2581.4	3291.2	4090.3
-5°	13.0	88.4	236.3	454.9	744.0	1084.5	1503.9	2035.7	2633.3	3342.0	4145.3
-7.5°	13.0	89.8	238.7	459.1	751.2	1097.2	1528.0	2068.3	2675.2	3380.3	4183.9
-10°	13.0	91.0	240.5	461.9	756.0	1106.2	1546.1	2092.7	2706.7	3406.4	4205.7
-12.5°	13.0	92.1	241.7	463.3	758.3	1111.4	1557.9	2108.5	2727.5	3421.0	4222.9
-15°	13.0	93.0	242.4	463.3	758.1	1112.6	1562.9	2115.4	2734.6	3427.0	4227.1
-17.5°	13.0	93.7	242.4	462.0	755.2	1109.7	1560.9	2110.5	2726.7	3418.0	4211.4
-20°	13.0	94.3	241.8	459.1	749.6	1102.7	1552.3	2094.9	2706.7	3393.6	4175.5



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 CATALOG NUMBER: EPH-LS-08-0680N-40-80-7F-VHE

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	13.0	94.7	240.7	454.9	741.3	1091.3	1538.6	2071.0	2674.4	3353.5	4118.9
-25°	13.0	95.0	238.9	449.1	730.3	1080.1	1518.9	2038.8	2629.6	3297.5	4041.5
-27.5°	13.0	95.1	236.5	441.9	716.4	1066.2	1493.2	1998.2	2572.2	3229.8	3965.5
-30°	13.0	95.0	233.6	433.2	700.3	1047.7	1461.5	1949.4	2511.7	3155.0	3871.7
-32.5°	13.0	94.7	230.0	423.0	685.5	1024.6	1423.8	1902.8	2447.1	3065.0	3758.9
-35°	13.0	94.2	225.9	411.4	667.8	996.7	1388.7	1852.3	2373.1	2959.9	3627.5
-37.5°	13.0	93.6	221.1	398.3	647.2	966.9	1351.1	1794.9	2289.7	2839.7	3491.1
-40°	13.0	92.8	215.8	383.8	623.6	938.1	1307.4	1730.7	2197.2	2727.0	3347.5
-42.5°	13.0	91.8	210.0	368.8	601.7	905.4	1257.7	1659.8	2109.3	2615.4	3190.3
-45°	13.0	90.7	203.5	354.0	582.0	868.8	1202.1	1587.4	2020.4	2490.5	3024.0
-47.5°	13.0	89.4	196.6	337.6	560.0	828.4	1140.7	1514.9	1924.0	2352.5	2867.3
-50°	13.0	87.9	189.1	326.1	535.7	784.2	1084.9	1435.2	1816.2	2228.7	2694.8
-52.5°	13.0	86.3	181.1	315.3	509.2	736.4	1026.3	1348.6	1707.1	2094.1	2510.9
-55°	13.0	84.4	172.6	303.4	480.6	697.1	963.1	1257.3	1593.3	1949.1	2345.3
-57.5°	13.0	82.5	163.6	290.3	449.8	657.2	895.5	1176.0	1472.0	1805.5	2168.1
-60°	13.0	80.4	154.2	276.2	417.8	614.5	825.9	1087.0	1348.2	1656.4	1985.7
-62.5°	13.0	78.1	149.3	260.9	395.6	569.2	769.1	992.3	1235.8	1499.3	1805.4
-65°	13.0	75.7	144.1	244.7	371.8	521.5	709.0	899.8	1118.0	1356.2	1616.4
-67.5°	13.0	73.2	138.6	227.6	346.6	479.3	645.9	820.4	995.0	1212.5	1441.6
-70°	13.0	70.5	132.8	209.5	320.0	442.8	580.1	737.9	896.4	1063.2	1269.5
-72.5°	13.0	67.7	126.7	198.3	292.2	404.6	527.8	652.6	795.2	944.4	1099.9
-75°	13.0	64.8	120.4	188.4	263.2	364.7	475.6	580.8	691.0	822.8	960.1
-77.5°	13.0	61.8	113.8	178.0	245.5	323.4	421.6	512.6	606.6	705.6	816.7
-80°	13.0	58.7	107.0	167.2	230.0	295.1	365.9	442.7	522.4	606.1	693.7
-82.5°	13.0	55.5	99.9	156.0	214.0	273.6	334.9	384.1	436.5	504.7	575.8
-85°	13.0	52.2	92.7	144.4	197.4	251.5	306.7	349.7	393.0	436.7	480.8
-87.5°	13.0	48.8	85.3	132.6	180.4	228.8	277.8	314.8	351.9	389.3	426.9
-90°	13.0	13.9	14.8	14.8	14.8	14.8	14.8	14.4	13.9	13.5	13.0



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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°	399.8	427.1	454.5	481.8	508.7	535.5	562.4	589.2	614.2	639.3	664.3
87.5°	22.2	22.7	23.2	23.6	22.7	21.6	20.3	19.0	20.5	22.2	24.0
85°	31.4	32.4	35.1	37.2	38.7	40.6	43.1	46.0	51.4	56.8	62.1
82.5°	52.2	55.6	58.1	59.7	64.9	71.2	78.1	84.5	90.6	96.4	102.0
80°	75.4	79.0	79.7	80.6	87.4	95.8	104.7	113.9	121.4	128.2	134.6
77.5°	92.4	94.4	96.9	99.6	108.4	120.6	132.8	145.0	154.1	161.4	168.0
75°	105.7	109.5	118.3	123.9	133.7	147.9	162.2	175.9	184.9	190.0	193.3
72.5°	127.4	140.1	148.0	151.0	160.5	177.3	192.3	205.8	212.7	211.7	207.4
70°	160.7	172.6	182.8	186.6	190.8	207.1	219.4	229.0	233.2	224.8	208.2
67.5°	196.7	214.9	224.3	224.8	219.0	233.2	244.2	242.7	235.4	217.1	195.2
65°	242.9	260.3	268.7	265.2	249.5	252.7	252.0	245.4	228.5	203.2	177.0
62.5°	294.7	310.3	316.8	308.1	279.3	267.0	259.9	243.0	217.1	192.4	167.7
60°	360.5	364.0	368.2	352.4	316.3	282.1	268.7	251.9	224.2	190.4	170.0
57.5°	434.4	422.4	424.5	406.8	365.1	304.1	298.2	276.7	253.3	208.7	187.8
55°	519.5	487.0	492.2	476.0	437.8	369.7	346.6	343.4	310.7	275.6	237.0
52.5°	621.7	577.5	576.4	573.9	553.2	494.5	441.5	478.3	499.0	459.8	484.7
50°	736.5	714.5	681.3	719.9	732.2	701.0	654.4	757.3	881.4	938.1	936.6
47.5°	889.0	876.0	847.3	917.2	1004.5	1084.5	1103.8	1289.7	1477.5	1685.1	1709.8
45°	1068.5	1101.6	1085.3	1233.6	1420.7	1636.0	1795.9	1976.3	2403.7	2651.6	3018.9
42.5°	1267.9	1364.2	1451.9	1592.1	2033.3	2307.4	2548.6	3001.2	3426.4	3785.8	4165.3
40°	1524.4	1651.1	1842.7	2224.1	2699.8	3017.0	3432.2	3948.0	4378.5	4784.4	5173.0
37.5°	1802.5	2014.1	2273.7	2820.4	3361.8	3759.1	4267.4	4779.0	5268.5	5724.0	6267.2
35°	2096.5	2378.4	2787.2	3358.4	3926.5	4479.8	5039.3	5609.2	6167.9	6791.9	7402.8
32.5°	2416.5	2743.1	3259.0	3865.6	4501.5	5144.4	5794.5	6459.7	7169.8	7897.4	8545.5
30°	2705.2	3149.4	3698.5	4356.4	5074.0	5812.4	6571.0	7336.7	8208.4	9069.7	9847.2
27.5°	2925.8	3521.5	4134.8	4862.0	5648.2	6471.7	7350.6	8299.3	9314.2	10301.5	11224.5
25°	3137.4	3807.9	4553.2	5367.3	6240.7	7166.6	8149.8	9211.9	10457.3	11614.2	12765.4
22.5°	3359.1	4096.4	4900.6	5859.7	6817.5	7871.3	8962.1	10184.5	11560.9	12928.4	14327.5
20°	3595.0	4395.0	5243.6	6255.0	7357.3	8565.6	9726.7	11149.4	12680.5	14269.7	15976.2
17.5°	3824.8	4669.4	5575.9	6642.0	7836.6	9190.0	10463.9	12083.4	13780.1	15597.8	17527.9
15°	4046.4	4919.5	5879.1	6997.9	8300.4	9737.1	11227.0	13001.5	14899.1	16905.8	18932.7
12.5°	4256.9	5145.3	6152.4	7321.0	8733.5	10268.7	11910.0	13776.3	15854.7	18072.7	20282.1
10°	4453.8	5346.8	6395.2	7609.6	9130.6	10775.7	12517.9	14468.8	16629.9	18915.1	21379.4
7.5°	4603.0	5514.2	6609.4	7862.3	9486.6	11248.1	13049.9	15075.7	17285.0	19665.2	22314.3
5°	4717.3	5650.2	6807.4	8153.9	9828.7	11639.0	13487.5	15593.2	17821.9	20310.5	23121.4
2.5°	4804.1	5765.1	6977.1	8424.9	10135.0	11905.2	13772.9	15932.7	18305.1	20913.1	23777.3
0°	4867.5	5857.0	7115.1	8656.7	10383.6	12101.2	13983.7	16179.4	18697.5	21423.1	24261.7
-2.5°	4975.2	6019.9	7308.0	8840.4	10538.7	12293.0	14255.2	16522.8	19069.7	21744.8	24679.3
-5°	5061.3	6153.9	7463.9	8978.5	10639.7	12418.7	14442.3	16761.6	19313.4	21961.4	24894.9
-7.5°	5123.6	6255.2	7581.0	9070.2	10707.2	12520.1	14573.1	16880.5	19404.6	22090.8	24928.7
-10°	5160.5	6303.2	7617.8	9097.3	10743.6	12574.8	14623.2	16897.9	19377.3	22060.3	24836.3
-12.5°	5174.5	6302.1	7606.4	9075.2	10715.7	12548.7	14583.5	16815.5	19234.5	21864.3	24600.9
-15°	5165.3	6269.8	7553.5	9003.1	10621.3	12438.8	14453.0	16635.1	18969.3	21465.0	24124.5
-17.5°	5132.9	6206.1	7458.4	8880.8	10459.1	12242.6	14220.4	16301.7	18588.3	21003.9	23519.2
-20°	5077.4	6111.0	7320.8	8708.1	10237.6	11985.1	13891.7	15906.6	18103.0	20453.7	22841.2



REPORT NUMBER: P731641 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-7F-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	4998.9	5984.7	7160.0	8513.6	10025.0	11692.3	13499.3	15431.1	17484.7	19797.1	22072.4
-25°	4908.7	5873.1	6991.8	8301.7	9756.4	11349.4	13039.9	14887.0	16825.2	18989.4	21191.8
-27.5°	4805.8	5737.5	6812.7	8047.7	9426.8	10968.3	12584.5	14318.4	16153.7	18099.6	20211.4
-30°	4678.6	5583.5	6598.0	7769.5	9092.9	10553.4	12107.5	13674.9	15413.4	17248.0	19183.7
-32.5°	4527.8	5397.3	6383.8	7499.6	8729.4	10073.2	11550.9	13041.3	14645.2	16343.3	18137.2
-35°	4366.4	5208.3	6145.2	7192.1	8330.7	9590.1	10939.6	12357.3	13832.4	15428.0	17006.0
-37.5°	4204.0	4992.2	5866.6	6866.5	7957.2	9076.0	10289.8	11638.5	13020.8	14431.6	15880.8
-40°	4021.2	4749.5	5589.3	6521.6	7509.2	8547.3	9684.7	10888.5	12173.7	13446.3	14745.3
-42.5°	3822.2	4525.6	5295.5	6127.4	7051.6	8017.6	9038.1	10164.7	11284.9	12440.7	13640.1
-45°	3633.3	4281.0	4982.8	5756.1	6572.9	7466.2	8418.7	9403.4	10411.8	11433.3	12525.1
-47.5°	3430.3	4027.0	4688.0	5358.2	6108.8	6917.4	7773.8	8659.9	9533.3	10470.0	11403.2
-50°	3218.8	3788.6	4358.1	4981.0	5647.7	6373.3	7150.2	7914.2	8712.9	9523.9	10365.1
-52.5°	3006.8	3536.0	4051.9	4597.2	5200.2	5844.5	6521.4	7204.1	7913.9	8627.8	9348.8
-55°	2777.8	3268.8	3736.9	4229.5	4758.3	5335.6	5908.7	6522.9	7138.1	7791.4	8383.8
-57.5°	2561.2	2979.9	3413.3	3863.3	4336.6	4828.0	5336.9	5850.7	6410.6	6974.0	7481.5
-60°	2347.7	2702.0	3080.4	3491.9	3915.5	4350.8	4772.5	5231.1	5704.8	6166.1	6630.5
-62.5°	2126.3	2439.9	2763.5	3112.6	3498.1	3873.1	4253.8	4640.3	5026.1	5435.4	5828.0
-65°	1907.8	2175.3	2462.2	2764.7	3074.6	3413.4	3748.1	4074.5	4419.2	4754.2	5079.4
-67.5°	1679.6	1924.6	2170.2	2422.3	2699.5	2976.1	3254.4	3554.3	3845.3	4119.1	4394.9
-70°	1475.7	1672.9	1890.3	2112.8	2333.3	2560.2	2807.4	3055.2	3298.4	3531.7	3770.4
-72.5°	1273.0	1449.9	1627.6	1805.7	1997.5	2188.5	2381.6	2576.0	2779.4	2982.9	3180.8
-75°	1092.3	1225.0	1379.4	1536.6	1686.3	1832.3	1981.7	2147.0	2309.6	2469.3	2627.5
-77.5°	927.7	1039.6	1155.4	1274.6	1388.5	1511.0	1634.0	1757.2	1878.5	1997.2	2113.5
-80°	772.8	851.4	944.6	1041.2	1131.7	1220.8	1310.1	1399.1	1488.9	1582.9	1680.0
-82.5°	639.7	703.8	768.6	833.9	894.1	952.8	1013.6	1083.1	1154.1	1224.7	1294.5
-85°	518.0	554.7	604.5	654.8	702.8	750.2	796.9	842.9	890.1	936.7	982.6
-87.5°	459.2	491.2	523.1	554.8	585.3	615.6	645.6	675.4	705.8	736.2	766.5
-90°	13.0	13.0	13.0	13.0	12.5	12.1	11.6	11.1	10.7	10.2	9.8



REPORT NUMBER: P731641 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-7F-VHE

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	689.3	697.2	705.1	712.9	720.8	739.3	757.9	776.4	794.9	799.1	803.3
87.5°	25.9	26.0	26.0	26.0	25.9	30.0	34.3	38.7	43.2	42.7	42.1
85°	67.3	68.3	68.8	68.8	68.5	74.2	80.0	85.6	91.0	87.3	83.1
82.5°	107.3	109.3	111.1	113.0	115.1	121.0	126.9	132.4	137.6	139.3	140.9
80°	140.5	144.2	146.9	149.0	150.6	155.7	161.1	166.2	171.1	176.3	181.6
77.5°	172.7	173.8	173.2	171.5	168.8	169.5	170.7	171.3	171.4	174.1	177.2
75°	194.9	192.4	184.7	175.9	166.1	160.0	155.6	150.9	146.1	145.3	145.6
72.5°	199.9	189.7	177.2	161.6	146.2	135.6	128.3	121.4	114.8	111.6	109.6
70°	189.3	169.8	152.9	136.2	119.9	107.9	100.7	94.1	88.2	84.3	81.6
67.5°	170.4	146.4	128.6	111.5	95.6	83.1	76.8	71.0	65.8	61.9	59.1
65°	151.3	125.7	108.6	92.1	76.1	63.8	58.9	54.2	49.5	46.1	44.2
62.5°	140.7	113.9	96.1	81.7	67.2	52.9	47.9	43.1	38.2	34.4	32.8
60°	144.4	114.0	92.5	79.1	64.1	47.6	41.4	36.9	31.9	27.4	25.9
57.5°	167.1	133.9	101.7	96.4	81.2	56.9	59.2	68.9	61.6	42.5	40.3
55°	255.6	247.3	161.9	209.5	243.7	229.6	214.4	283.8	317.7	319.4	350.8
52.5°	507.9	567.9	545.5	571.5	712.4	769.5	762.0	886.1	950.4	941.6	975.2
50°	1069.4	1192.2	1343.2	1367.6	1603.9	1767.8	1807.3	1951.1	2110.6	2171.7	2240.5
47.5°	2087.1	2374.7	2520.6	2685.1	2957.1	3255.2	3486.1	3693.0	3917.1	4070.4	4255.4
45°	3399.8	3602.9	3856.8	4239.0	4654.2	5043.2	5408.6	5741.6	5961.3	6157.1	6365.0
42.5°	4479.7	4804.2	5230.0	5800.1	6390.8	6790.1	7090.8	7411.7	7754.8	8081.0	8381.7
40°	5585.4	5961.5	6637.1	7283.0	7723.9	8109.3	8520.8	8956.3	9404.8	9832.7	10258.2
37.5°	6770.5	7326.4	7918.0	8482.6	8949.0	9313.5	9877.5	10359.9	10809.4	11446.5	12031.0
35°	8031.6	8635.6	9144.0	9789.7	10311.2	10760.9	11350.9	11958.5	12347.5	13221.6	13978.3
32.5°	9286.2	9990.2	10668.0	11281.1	11928.3	12621.7	13196.0	14029.4	14663.4	15499.4	16321.3
30°	10593.4	11558.5	12404.6	13077.5	13959.1	14855.5	15661.2	16642.6	17577.3	18355.3	19226.4
27.5°	12243.0	13316.1	14347.8	15384.8	16326.6	17446.0	18728.5	19766.6	20963.1	21811.5	22722.5
25°	13993.1	15271.4	16643.7	17980.4	19215.9	20664.0	22118.0	23386.4	24626.5	25604.0	26577.6
22.5°	15896.2	17442.0	19075.3	20758.0	22428.3	24014.7	25575.5	27145.2	28574.6	29918.2	30854.1
20°	17828.9	19545.5	21528.9	23556.3	25479.6	27270.2	29145.8	31130.8	32947.1	34504.2	35657.2
17.5°	19572.4	21725.5	23907.0	26131.5	28300.5	30513.6	32840.7	35175.2	37325.8	39149.3	40680.1
15°	21143.0	23582.6	26108.1	28617.8	31112.1	33660.1	36379.2	38894.6	41305.1	43396.3	45186.1
12.5°	22691.8	25297.5	28004.7	30818.7	33775.8	36534.6	39303.0	42015.3	44541.4	46972.4	48765.4
10°	24062.6	26876.2	29774.4	32789.9	35852.6	38845.5	41763.6	44591.1	47073.0	49368.4	51537.5
7.5°	25179.6	28197.0	31290.3	34461.9	37614.0	40644.7	43616.7	46442.2	48961.4	51313.8	53531.9
5°	26142.9	29343.3	32535.7	35696.3	38868.0	42011.5	45012.1	47798.1	50422.1	52866.6	55089.5
2.5°	26929.1	30266.1	33500.8	36613.7	39772.6	42990.4	46066.6	48758.2	51501.0	53987.2	56175.3
0°	27519.1	30887.6	34019.0	37159.6	40357.7	43611.4	46705.7	49342.4	52134.7	54791.7	56872.5
-2.5°	27841.8	31012.5	34129.3	37280.3	40574.8	43921.7	47011.7	49853.6	52629.9	55120.6	57055.1
-5°	27953.8	31073.0	34178.6	37386.4	40652.3	43946.6	47026.1	49875.5	52541.6	54871.2	56635.7
-7.5°	27878.6	30967.1	34041.6	37217.9	40463.1	43718.0	46748.1	49473.7	52041.2	54247.7	55931.3
-10°	27651.5	30642.3	33717.9	36842.1	40094.2	43307.7	46277.1	48736.0	51187.4	53257.6	54849.5
-12.5°	27276.2	30139.8	33173.0	36227.9	39418.7	42507.6	45274.6	47723.0	49913.4	52010.2	53403.7
-15°	26743.7	29504.6	32404.5	35395.9	38418.9	41407.2	44105.1	46471.6	48500.8	50154.9	51622.4
-17.5°	26075.8	28739.8	31518.5	34385.1	37192.2	40035.2	42535.5	44907.0	46859.0	48331.5	49470.2
-20°	25253.7	27839.0	30496.4	33233.2	35841.3	38259.3	40669.6	42874.8	44804.2	46244.0	47338.4



REPORT NUMBER: P731641 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-7F-VHE

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	24386.0	26825.0	29342.6	31810.3	34185.5	36458.5	38641.5	40665.4	42500.0	43861.4	44908.7
-25°	23398.6	25679.7	28007.5	30236.1	32405.3	34521.6	36500.3	38375.6	39977.2	41301.5	42273.8
-27.5°	22317.3	24441.2	26542.3	28614.9	30627.5	32457.0	34277.6	35970.5	37379.0	38596.9	39458.0
-30°	21135.7	23078.1	25047.2	26990.1	28731.1	30379.1	31996.6	33466.2	34757.2	35826.6	36598.9
-32.5°	19889.5	21664.1	23490.5	25247.4	26774.1	28260.9	29671.4	30959.6	32143.4	33088.3	33784.8
-35°	18601.1	20245.1	21885.3	23404.4	24827.4	26150.0	27365.3	28507.1	29487.8	30349.2	31032.0
-37.5°	17333.8	18814.6	20238.1	21564.4	22879.3	24092.3	25153.8	26155.6	27047.2	27765.6	28364.2
-40°	16091.0	17401.7	18613.6	19794.2	20969.1	21995.9	22959.9	23823.8	24612.9	25299.2	25831.0
-42.5°	14855.5	15984.2	17030.2	18092.6	19108.4	19998.9	20838.2	21586.7	22271.5	22886.5	23402.2
-45°	13615.4	14580.8	15511.8	16445.8	17289.3	18082.4	18812.0	19469.7	20081.3	20599.3	21022.1
-47.5°	12348.9	13205.3	14051.0	14860.4	15560.2	16245.4	16873.6	17464.3	18015.6	18481.3	18854.9
-50°	11139.7	11896.6	12653.9	13323.0	13911.3	14482.0	15013.5	15583.9	16094.1	16518.5	16827.2
-52.5°	10004.4	10688.8	11339.7	11887.7	12385.0	12830.6	13239.0	13768.9	14249.1	14665.9	14939.6
-55°	8970.5	9556.2	10114.3	10567.0	10982.2	11353.9	11724.5	12150.3	12538.0	12884.8	13113.6
-57.5°	7997.3	8493.8	8958.0	9339.2	9685.6	9996.3	10340.4	10696.4	11014.3	11288.0	11472.2
-60°	7074.5	7497.2	7882.3	8195.8	8483.7	8745.2	9072.7	9383.4	9658.2	9881.4	10018.9
-62.5°	6204.1	6583.2	6882.6	7134.7	7364.7	7585.0	7871.2	8139.7	8387.5	8585.5	8700.6
-65°	5407.2	5739.1	5961.6	6161.2	6342.4	6540.9	6784.3	7002.6	7196.3	7343.3	7443.5
-67.5°	4680.7	4943.3	5118.8	5277.4	5432.6	5602.5	5809.0	5999.6	6173.8	6295.0	6369.8
-70°	4004.0	4206.4	4348.6	4483.5	4613.1	4758.8	4928.0	5085.5	5230.9	5325.0	5384.7
-72.5°	3372.6	3526.9	3644.5	3760.5	3865.0	3989.9	4127.9	4257.1	4377.2	4447.8	4493.3
-75°	2783.6	2901.8	2998.1	3087.2	3168.9	3273.9	3385.7	3490.6	3588.3	3642.2	3677.1
-77.5°	2237.4	2327.9	2400.4	2466.8	2526.9	2610.2	2696.2	2777.0	2852.3	2900.4	2938.9
-80°	1774.8	1829.5	1874.0	1915.6	1953.9	2016.1	2079.2	2138.7	2194.4	2225.8	2250.6
-82.5°	1363.2	1396.5	1423.0	1446.3	1466.3	1509.7	1553.0	1593.9	1632.5	1652.7	1670.0
-85°	1027.6	1045.5	1060.5	1073.9	1085.7	1115.9	1145.7	1174.5	1202.2	1208.1	1212.2
-87.5°	796.7	806.4	815.7	824.6	833.2	855.5	877.8	899.9	921.8	925.6	929.1
-90°	9.3	8.8	8.4	7.9	7.4	7.0	6.5	6.1	5.6	5.1	4.7



REPORT NUMBER: P731641 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-7F-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	807.4	811.6	808.8	806.0	808.8	811.6	807.4	803.3	799.1	794.9	776.4
87.5°	41.4	40.7	40.8	40.8	40.8	40.7	41.4	42.1	42.7	43.2	38.7
85°	78.6	73.9	70.4	66.7	70.4	73.9	78.6	83.1	87.3	91.0	85.6
82.5°	142.4	143.7	143.4	142.7	143.4	143.7	142.4	140.9	139.3	137.6	132.4
80°	186.8	191.8	193.4	194.6	193.4	191.8	186.8	181.6	176.3	171.1	166.2
77.5°	180.3	183.4	184.4	185.3	184.4	183.4	180.3	177.2	174.1	171.4	171.3
75°	146.2	147.1	146.6	146.4	146.6	147.1	146.2	145.6	145.3	146.1	150.9
72.5°	108.0	106.7	105.9	105.6	105.9	106.7	108.0	109.6	111.6	114.8	121.4
70°	79.1	77.1	75.4	74.1	75.4	77.1	79.1	81.6	84.3	88.2	94.1
67.5°	56.7	54.7	53.1	51.9	53.1	54.7	56.7	59.1	61.9	65.8	71.0
65°	42.6	41.4	40.1	38.9	40.1	41.4	42.6	44.2	46.1	49.5	54.2
62.5°	31.4	30.2	29.7	29.6	29.7	30.2	31.4	32.8	34.4	38.2	43.1
60°	24.3	22.8	22.3	22.2	22.3	22.8	24.3	25.9	27.4	31.9	36.9
57.5°	36.4	31.2	28.0	25.9	28.0	31.2	36.4	40.3	42.5	61.6	68.9
55°	367.4	368.5	375.9	383.5	375.9	368.5	367.4	350.8	319.4	317.7	283.8
52.5°	1000.9	997.7	988.6	970.9	988.6	997.7	1000.9	975.2	941.6	950.4	886.1
50°	2281.7	2249.5	2179.7	2080.8	2179.7	2249.5	2281.7	2240.5	2171.7	2110.6	1951.1
47.5°	4504.5	4690.8	4819.7	4876.8	4819.7	4690.8	4504.5	4255.4	4070.4	3917.1	3693.0
45°	6581.4	6691.8	6756.3	6807.5	6756.3	6691.8	6581.4	6365.0	6157.1	5961.3	5741.6
42.5°	8637.7	8812.8	8899.1	8884.6	8899.1	8812.8	8637.7	8381.7	8081.0	7754.8	7411.7
40°	10667.1	11033.8	11334.8	11550.9	11334.8	11033.8	10667.1	10258.2	9832.7	9404.8	8956.3
37.5°	12609.0	13155.0	13616.2	13950.4	13616.2	13155.0	12609.0	12031.0	11446.5	10809.4	10359.9
35°	14597.3	15078.8	15394.9	15532.7	15394.9	15078.8	14597.3	13978.3	13221.6	12347.5	11958.5
32.5°	16845.4	17112.9	17169.6	17313.4	17169.6	17112.9	16845.4	16321.3	15499.4	14663.4	14029.4
30°	19756.8	20034.9	20041.7	20222.4	20041.7	20034.9	19756.8	19226.4	18355.3	17577.3	16642.6
27.5°	23440.7	23909.0	24061.1	24220.9	24061.1	23909.0	23440.7	22722.5	21811.5	20963.1	19766.6
25°	27385.4	27821.9	27961.8	27908.2	27961.8	27821.9	27385.4	26577.6	25604.0	24626.5	23386.4
22.5°	31813.0	32379.0	32584.9	32481.1	32584.9	32379.0	31813.0	30854.1	29918.2	28574.6	27145.2
20°	36768.5	37585.5	38017.3	38212.1	38017.3	37585.5	36768.5	35657.2	34504.2	32947.1	31130.8
17.5°	41984.5	43188.4	43741.2	43904.1	43741.2	43188.4	41984.5	40680.1	39149.3	37325.8	35175.2
15°	46729.7	47780.9	48497.7	48866.2	48497.7	47780.9	46729.7	45186.1	43396.3	41305.1	38894.6
12.5°	50398.7	51738.5	52855.1	53453.9	52855.1	51738.5	50398.7	48765.4	46972.4	44541.4	42015.3
10°	53389.6	54742.3	55757.6	56249.9	55757.6	54742.3	53389.6	51537.5	49368.4	47073.0	44591.1
7.5°	55458.8	56716.0	57504.3	57826.7	57504.3	56716.0	55458.8	53531.9	51313.8	48961.4	46442.2
5°	56796.3	57998.3	58581.0	58790.2	58581.0	57998.3	56796.3	55089.5	52866.6	50422.1	47798.1
2.5°	57759.3	58710.4	59177.0	59207.1	59177.0	58710.4	57759.3	56175.3	53987.2	51501.0	48758.2
0°	58199.2	59055.2	59566.6	59557.3	59566.6	59055.2	58199.2	56872.5	54791.7	52134.7	49342.4
-2.5°	58220.4	58965.3	59328.6	59123.7	59328.6	58965.3	58220.4	57055.1	55120.6	52629.9	49853.6
-5°	57805.2	58534.1	58806.5	58743.9	58806.5	58534.1	57805.2	56635.7	54871.2	52541.6	49875.5
-7.5°	57059.7	57706.5	57984.5	57993.5	57984.5	57706.5	57059.7	55931.3	54247.7	52041.2	49473.7
-10°	55922.9	56463.3	56781.7	56690.9	56781.7	56463.3	55922.9	54849.5	53257.6	51187.4	48736.0
-12.5°	54419.0	54952.4	55222.5	55167.8	55222.5	54952.4	54419.0	53403.7	52010.2	49913.4	47723.0
-15°	52620.1	53127.0	53380.0	53355.7	53380.0	53127.0	52620.1	51622.4	50154.9	48500.8	46471.6
-17.5°	50392.8	50900.9	51160.0	51195.2	51160.0	50900.9	50392.8	49470.2	48331.5	46859.0	44907.0
-20°	48058.7	48506.9	48744.1	48747.6	48744.1	48506.9	48058.7	47338.4	46244.0	44804.2	42874.8



REPORT NUMBER: P731641 (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°	45639.2	46142.5	46424.0	46381.4	46424.0	46142.5	45639.2	44908.7	43861.4	42500.0	40665.4
-25°	42942.4	43446.7	43720.5	43709.6	43720.5	43446.7	42942.4	42273.8	41301.5	39977.2	38375.6
-27.5°	40063.3	40548.0	40812.3	40845.0	40812.3	40548.0	40063.3	39458.0	38596.9	37379.0	35970.5
-30°	37163.3	37641.2	37900.0	37921.2	37900.0	37641.2	37163.3	36598.9	35826.6	34757.2	33466.2
-32.5°	34321.5	34753.1	34992.2	35017.7	34992.2	34753.1	34321.5	33784.8	33088.3	32143.4	30959.6
-35°	31549.1	31928.3	32142.9	32212.4	32142.9	31928.3	31549.1	31032.0	30349.2	29487.8	28507.1
-37.5°	28850.9	29193.6	29400.8	29527.6	29400.8	29193.6	28850.9	28364.2	27765.6	27047.2	26155.6
-40°	26244.6	26544.9	26710.1	26713.1	26710.1	26544.9	26244.6	25831.0	25299.2	24612.9	23823.8
-42.5°	23784.2	24037.0	24163.4	24165.3	24163.4	24037.0	23784.2	23402.2	22886.5	22271.5	21586.7
-45°	21362.6	21609.8	21784.9	21895.6	21784.9	21609.8	21362.6	21022.1	20599.3	20081.3	19469.7
-47.5°	19139.8	19342.5	19481.5	19557.2	19481.5	19342.5	19139.8	18854.9	18481.3	18015.6	17464.3
-50°	17053.3	17215.4	17334.0	17404.2	17334.0	17215.4	17053.3	16827.2	16518.5	16094.1	15583.9
-52.5°	15125.3	15243.6	15286.1	15258.5	15286.1	15243.6	15125.3	14939.6	14665.9	14249.1	13768.9
-55°	13285.0	13403.0	13450.1	13433.4	13450.1	13403.0	13285.0	13113.6	12884.8	12538.0	12150.3
-57.5°	11617.2	11721.7	11805.4	11856.6	11805.4	11721.7	11617.2	11472.2	11288.0	11014.3	10696.4
-60°	10127.3	10204.6	10257.2	10278.0	10257.2	10204.6	10127.3	10018.9	9881.4	9658.2	9383.4
-62.5°	8781.5	8829.6	8867.0	8882.7	8867.0	8829.6	8781.5	8700.6	8585.5	8387.5	8139.7
-65°	7523.3	7582.0	7574.9	7533.8	7574.9	7582.0	7523.3	7443.5	7343.3	7196.3	7002.6
-67.5°	6426.4	6464.6	6497.4	6514.7	6497.4	6464.6	6426.4	6369.8	6295.0	6173.8	5999.6
-70°	5430.3	5461.6	5473.3	5469.7	5473.3	5461.6	5430.3	5384.7	5325.0	5230.9	5085.5
-72.5°	4527.5	4550.4	4554.9	4547.0	4554.9	4550.4	4527.5	4493.3	4447.8	4377.2	4257.1
-75°	3701.9	3717.1	3724.8	3724.3	3724.8	3717.1	3701.9	3677.1	3642.2	3588.3	3490.6
-77.5°	2971.1	2996.7	2985.8	2966.5	2985.8	2996.7	2971.1	2938.9	2900.4	2852.3	2777.0
-80°	2270.8	2286.5	2277.9	2264.2	2277.9	2286.5	2270.8	2250.6	2225.8	2194.4	2138.7
-82.5°	1684.8	1697.2	1683.1	1665.7	1683.1	1697.2	1684.8	1670.0	1652.7	1632.5	1593.9
-85°	1215.2	1217.0	1215.9	1213.6	1215.9	1217.0	1215.2	1212.2	1208.1	1202.2	1174.5
-87.5°	932.3	935.2	932.8	930.1	932.8	935.2	932.3	929.1	925.6	921.8	899.9
-90°	4.2	3.7	4.7	5.6	4.7	3.7	4.2	4.7	5.1	5.6	6.1



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	757.9	739.3	720.8	712.9	705.1	697.2	689.3	664.3	639.3	614.2	589.2
87.5°	34.3	30.0	25.9	26.0	26.0	26.0	25.9	24.0	22.2	20.5	19.0
85°	80.0	74.2	68.5	68.8	68.8	68.3	67.3	62.1	56.8	51.4	46.0
82.5°	126.9	121.0	115.1	113.0	111.1	109.3	107.3	102.0	96.4	90.6	84.5
80°	161.1	155.7	150.6	149.0	146.9	144.2	140.5	134.6	128.2	121.4	113.9
77.5°	170.7	169.5	168.8	171.5	173.2	173.8	172.7	168.0	161.4	154.1	145.0
75°	155.6	160.0	166.1	175.9	184.7	192.4	194.9	193.3	190.0	184.9	175.9
72.5°	128.3	135.6	146.2	161.6	177.2	189.7	199.9	207.4	211.7	212.7	205.8
70°	100.7	107.9	119.9	136.2	152.9	169.8	189.3	208.2	224.8	233.2	229.0
67.5°	76.8	83.1	95.6	111.5	128.6	146.4	170.4	195.2	217.1	235.4	242.7
65°	58.9	63.8	76.1	92.1	108.6	125.7	151.3	177.0	203.2	228.5	245.4
62.5°	47.9	52.9	67.2	81.7	96.1	113.9	140.7	167.7	192.4	217.1	243.0
60°	41.4	47.6	64.1	79.1	92.5	114.0	144.4	170.0	190.4	224.2	251.9
57.5°	59.2	56.9	81.2	96.4	101.7	133.9	167.1	187.8	208.7	253.3	276.7
55°	214.4	229.6	243.7	209.5	161.9	247.3	255.6	237.0	275.6	310.7	343.4
52.5°	762.0	769.5	712.4	571.5	545.5	567.9	507.9	484.7	459.8	499.0	478.3
50°	1807.3	1767.8	1603.9	1367.6	1343.2	1192.2	1069.4	936.6	938.1	881.4	757.3
47.5°	3486.1	3255.2	2957.1	2685.1	2520.6	2374.7	2087.1	1709.8	1685.1	1477.5	1289.7
45°	5408.6	5043.2	4654.2	4239.0	3856.8	3602.9	3399.8	3018.9	2651.6	2403.7	1976.3
42.5°	7090.8	6790.1	6390.8	5800.1	5230.0	4804.2	4479.7	4165.3	3785.8	3426.4	3001.2
40°	8520.8	8109.3	7723.9	7283.0	6637.1	5961.5	5585.4	5173.0	4784.4	4378.5	3948.0
37.5°	9877.5	9313.5	8949.0	8482.6	7918.0	7326.4	6770.5	6267.2	5724.0	5268.5	4779.0
35°	11350.9	10760.9	10311.2	9789.7	9144.0	8635.6	8031.6	7402.8	6791.9	6167.9	5609.2
32.5°	13196.0	12621.7	11928.3	11281.1	10668.0	9990.2	9286.2	8545.5	7897.4	7169.8	6459.7
30°	15661.2	14855.5	13959.1	13077.5	12404.6	11558.5	10593.4	9847.2	9069.7	8208.4	7336.7
27.5°	18728.5	17446.0	16326.6	15384.8	14347.8	13316.1	12243.0	11224.5	10301.5	9314.2	8299.3
25°	22118.0	20664.0	19215.9	17980.4	16643.7	15271.4	13993.1	12765.4	11614.2	10457.3	9211.9
22.5°	25575.5	24014.7	22428.3	20758.0	19075.3	17442.0	15896.2	14327.5	12928.4	11560.9	10184.5
20°	29145.8	27270.2	25479.6	23556.3	21528.9	19545.5	17828.9	15976.2	14269.7	12680.5	11149.4
17.5°	32840.7	30513.6	28300.5	26131.5	23907.0	21725.5	19572.4	17527.9	15597.8	13780.1	12083.4
15°	36379.2	33660.1	31112.1	28617.8	26108.1	23582.6	21143.0	18932.7	16905.8	14899.1	13001.5
12.5°	39303.0	36534.6	33775.8	30818.7	28004.7	25297.5	22691.8	20282.1	18072.7	15854.7	13776.3
10°	41763.6	38845.5	35852.6	32789.9	29774.4	26876.2	24062.6	21379.4	18915.1	16629.9	14468.8
7.5°	43616.7	40644.7	37614.0	34461.9	31290.3	28197.0	25179.6	22314.3	19665.2	17285.0	15075.7
5°	45012.1	42011.5	38868.0	35696.3	32535.7	29343.3	26142.9	23121.4	20310.5	17821.9	15593.2
2.5°	46066.6	42990.4	39772.6	36613.7	33500.8	30266.1	26929.1	23777.3	20913.1	18305.1	15932.7
0°	46705.7	43611.4	40357.7	37159.6	34019.0	30887.6	27519.1	24261.7	21423.1	18697.5	16179.4
-2.5°	47011.7	43921.7	40574.8	37280.3	34129.3	31012.5	27841.8	24679.3	21744.8	19069.7	16522.8
-5°	47026.1	43946.6	40652.3	37386.4	34178.6	31073.0	27953.8	24894.9	21961.4	19313.4	16761.6
-7.5°	46748.1	43718.0	40463.1	37217.9	34041.6	30967.1	27878.6	24928.7	22090.8	19404.6	16880.5
-10°	46277.1	43307.7	40094.2	36842.1	33717.9	30642.3	27651.5	24836.3	22060.3	19377.3	16897.9
-12.5°	45274.6	42507.6	39418.7	36227.9	33173.0	30139.8	27276.2	24600.9	21864.3	19234.5	16815.5
-15°	44105.1	41407.2	38418.9	35395.9	32404.5	29504.6	26743.7	24124.5	21465.0	18969.3	16635.1
-17.5°	42535.5	40035.2	37192.2	34385.1	31518.5	28739.8	26075.8	23519.2	21003.9	18588.3	16301.7
-20°	40669.6	38259.3	35841.3	33233.2	30496.4	27839.0	25253.7	22841.2	20453.7	18103.0	15906.6



REPORT NUMBER: P731641 (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°	38641.5	36458.5	34185.5	31810.3	29342.6	26825.0	24386.0	22072.4	19797.1	17484.7	15431.1
-25°	36500.3	34521.6	32405.3	30236.1	28007.5	25679.7	23398.6	21191.8	18989.4	16825.2	14887.0
-27.5°	34277.6	32457.0	30627.5	28614.9	26542.3	24441.2	22317.3	20211.4	18099.6	16153.7	14318.4
-30°	31996.6	30379.1	28731.1	26990.1	25047.2	23078.1	21135.7	19183.7	17248.0	15413.4	13674.9
-32.5°	29671.4	28260.9	26774.1	25247.4	23490.5	21664.1	19889.5	18137.2	16343.3	14645.2	13041.3
-35°	27365.3	26150.0	24827.4	23404.4	21885.3	20245.1	18601.1	17006.0	15428.0	13832.4	12357.3
-37.5°	25153.8	24092.3	22879.3	21564.4	20238.1	18814.6	17333.8	15880.8	14431.6	13020.8	11638.5
-40°	22959.9	21995.9	20969.1	19794.2	18613.6	17401.7	16091.0	14745.3	13446.3	12173.7	10888.5
-42.5°	20838.2	19998.9	19108.4	18092.6	17030.2	15984.2	14855.5	13640.1	12440.7	11284.9	10164.7
-45°	18812.0	18082.4	17289.3	16445.8	15511.8	14580.8	13615.4	12525.1	11433.3	10411.8	9403.4
-47.5°	16873.6	16245.4	15560.2	14860.4	14051.0	13205.3	12348.9	11403.2	10470.0	9533.3	8659.9
-50°	15013.5	14482.0	13911.3	13323.0	12653.9	11896.6	11139.7	10365.1	9523.9	8712.9	7914.2
-52.5°	13239.0	12830.6	12385.0	11887.7	11339.7	10688.8	10004.4	9348.8	8627.8	7913.9	7204.1
-55°	11724.5	11353.9	10982.2	10567.0	10114.3	9556.2	8970.5	8383.8	7791.4	7138.1	6522.9
-57.5°	10340.4	9996.3	9685.6	9339.2	8958.0	8493.8	7997.3	7481.5	6974.0	6410.6	5850.7
-60°	9072.7	8745.2	8483.7	8195.8	7882.3	7497.2	7074.5	6630.5	6166.1	5704.8	5231.1
-62.5°	7871.2	7585.0	7364.7	7134.7	6882.6	6583.2	6204.1	5828.0	5435.4	5026.1	4640.3
-65°	6784.3	6540.9	6342.4	6161.2	5961.6	5739.1	5407.2	5079.4	4754.2	4419.2	4074.5
-67.5°	5809.0	5602.5	5432.6	5277.4	5118.8	4943.3	4680.7	4394.9	4119.1	3845.3	3554.3
-70°	4928.0	4758.8	4613.1	4483.5	4348.6	4206.4	4004.0	3770.4	3531.7	3298.4	3055.2
-72.5°	4127.9	3989.9	3865.0	3760.5	3644.5	3526.9	3372.6	3180.8	2982.9	2779.4	2576.0
-75°	3385.7	3273.9	3168.9	3087.2	2998.1	2901.8	2783.6	2627.5	2469.3	2309.6	2147.0
-77.5°	2696.2	2610.2	2526.9	2466.8	2400.4	2327.9	2237.4	2113.5	1997.2	1878.5	1757.2
-80°	2079.2	2016.1	1953.9	1915.6	1874.0	1829.5	1774.8	1680.0	1582.9	1488.9	1399.1
-82.5°	1553.0	1509.7	1466.3	1446.3	1423.0	1396.5	1363.2	1294.5	1224.7	1154.1	1083.1
-85°	1145.7	1115.9	1085.7	1073.9	1060.5	1045.5	1027.6	982.6	936.7	890.1	842.9
-87.5°	877.8	855.5	833.2	824.6	815.7	806.4	796.7	766.5	736.2	705.8	675.4
-90°	6.5	7.0	7.4	7.9	8.4	8.8	9.3	9.8	10.2	10.7	11.1



REPORT NUMBER: P731641 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-7F-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	562.4	535.5	508.7	481.8	454.5	427.1	399.8	372.4	341.4	310.4	279.3
87.5°	20.3	21.6	22.7	23.6	23.2	22.7	22.2	21.6	22.5	23.1	23.4
85°	43.1	40.6	38.7	37.2	35.1	32.4	31.4	30.3	31.6	32.4	32.5
82.5°	78.1	71.2	64.9	59.7	58.1	55.6	52.2	47.9	45.5	42.4	41.7
80°	104.7	95.8	87.4	80.6	79.7	79.0	75.4	70.8	67.1	62.4	56.9
77.5°	132.8	120.6	108.4	99.6	96.9	94.4	92.4	91.5	88.7	82.5	75.2
75°	162.2	147.9	133.7	123.9	118.3	109.5	105.7	106.1	109.2	102.9	93.4
72.5°	192.3	177.3	160.5	151.0	148.0	140.1	127.4	122.5	130.5	127.7	113.9
70°	219.4	207.1	190.8	186.6	182.8	172.6	160.7	157.3	153.8	153.7	141.5
67.5°	244.2	233.2	219.0	224.8	224.3	214.9	196.7	198.4	197.1	181.3	169.9
65°	252.0	252.7	249.5	265.2	268.7	260.3	242.9	245.6	242.3	226.7	199.3
62.5°	259.9	267.0	279.3	308.1	316.8	310.3	294.7	304.7	292.3	273.5	240.1
60°	268.7	282.1	316.3	352.4	368.2	364.0	360.5	367.7	355.4	321.8	286.1
57.5°	298.2	304.1	365.1	406.8	424.5	422.4	434.4	441.2	421.6	382.8	333.9
55°	346.6	369.7	437.8	476.0	492.2	487.0	519.5	523.4	493.5	448.7	385.0
52.5°	441.5	494.5	553.2	573.9	576.4	577.5	621.7	611.7	578.9	516.7	449.3
50°	654.4	701.0	732.2	719.9	681.3	714.5	736.5	722.8	668.8	591.0	516.6
47.5°	1103.8	1084.5	1004.5	917.2	847.3	876.0	889.0	845.5	763.3	677.8	585.3
45°	1795.9	1636.0	1420.7	1233.6	1085.3	1101.6	1068.5	978.1	885.3	771.6	655.3
42.5°	2548.6	2307.4	2033.3	1592.1	1451.9	1364.2	1267.9	1156.4	1014.7	868.4	734.6
40°	3432.2	3017.0	2699.8	2224.1	1842.7	1651.1	1524.4	1354.7	1150.2	973.9	820.8
37.5°	4267.4	3759.1	3361.8	2820.4	2273.7	2014.1	1802.5	1567.0	1295.2	1091.8	908.1
35°	5039.3	4479.8	3926.5	3358.4	2787.2	2378.4	2096.5	1803.7	1464.0	1208.6	996.4
32.5°	5794.5	5144.4	4501.5	3865.6	3259.0	2743.1	2416.5	2012.2	1626.0	1324.1	1085.4
30°	6571.0	5812.4	5074.0	4356.4	3698.5	3149.4	2705.2	2207.7	1780.9	1437.9	1176.3
27.5°	7350.6	6471.7	5648.2	4862.0	4134.8	3521.5	2925.8	2389.9	1928.3	1557.0	1271.2
25°	8149.8	7166.6	6240.7	5367.3	4553.2	3807.9	3137.4	2559.5	2078.8	1682.4	1363.5
22.5°	8962.1	7871.3	6817.5	5859.7	4900.6	4096.4	3359.1	2737.9	2224.0	1801.0	1453.0
20°	9726.7	8565.6	7357.3	6255.0	5243.6	4395.0	3595.0	2906.1	2357.8	1912.6	1539.3
17.5°	10463.9	9190.0	7836.6	6642.0	5575.9	4669.4	3824.8	3063.6	2480.3	2017.1	1622.1
15°	11227.0	9737.1	8300.4	6997.9	5879.1	4919.5	4046.4	3209.7	2591.5	2114.4	1691.7
12.5°	11910.0	10268.7	8733.5	7321.0	6152.4	5145.3	4256.9	3343.7	2691.7	2200.1	1746.1
10°	12517.9	10775.7	9130.6	7609.6	6395.2	5346.8	4453.8	3480.2	2809.5	2277.0	1796.5
7.5°	13049.9	11248.1	9486.6	7862.3	6609.4	5514.2	4603.0	3635.7	2926.1	2348.3	1842.5
5°	13487.5	11639.0	9828.7	8153.9	6807.4	5650.2	4717.3	3778.0	3036.0	2413.2	1883.4
2.5°	13772.9	11905.2	10135.0	8424.9	6977.1	5765.1	4804.1	3906.0	3137.2	2470.7	1918.6
0°	13983.7	12101.2	10383.6	8656.7	7115.1	5857.0	4867.5	4018.9	3227.7	2519.9	1947.4
-2.5°	14255.2	12293.0	10538.7	8840.4	7308.0	6019.9	4975.2	4090.3	3291.2	2581.4	1995.2
-5°	14442.3	12418.7	10639.7	8978.5	7463.9	6153.9	5061.3	4145.3	3342.0	2633.3	2035.7
-7.5°	14573.1	12520.1	10707.2	9070.2	7581.0	6255.2	5123.6	4183.9	3380.3	2675.2	2068.3
-10°	14623.2	12574.8	10743.6	9097.3	7617.8	6303.2	5160.5	4205.7	3406.4	2706.7	2092.7
-12.5°	14583.5	12548.7	10715.7	9075.2	7606.4	6302.1	5174.5	4222.9	3421.0	2727.5	2108.5
-15°	14453.0	12438.8	10621.3	9003.1	7553.5	6269.8	5165.3	4227.1	3427.0	2734.6	2115.4
-17.5°	14220.4	12242.6	10459.1	8880.8	7458.4	6206.1	5132.9	4211.4	3418.0	2726.7	2110.5
-20°	13891.7	11985.1	10237.6	8708.1	7320.8	6111.0	5077.4	4175.5	3393.6	2706.7	2094.9



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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°	13499.3	11692.3	10025.0	8513.6	7160.0	5984.7	4998.9	4118.9	3353.5	2674.4	2071.0
-25°	13039.9	11349.4	9756.4	8301.7	6991.8	5873.1	4908.7	4041.5	3297.5	2629.6	2038.8
-27.5°	12584.5	10968.3	9426.8	8047.7	6812.7	5737.5	4805.8	3965.5	3229.8	2572.2	1998.2
-30°	12107.5	10553.4	9092.9	7769.5	6598.0	5583.5	4678.6	3871.7	3155.0	2511.7	1949.4
-32.5°	11550.9	10073.2	8729.4	7499.6	6383.8	5397.3	4527.8	3758.9	3065.0	2447.1	1902.8
-35°	10939.6	9590.1	8330.7	7192.1	6145.2	5208.3	4366.4	3627.5	2959.9	2373.1	1852.3
-37.5°	10289.8	9076.0	7957.2	6866.5	5866.6	4992.2	4204.0	3491.1	2839.7	2289.7	1794.9
-40°	9684.7	8547.3	7509.2	6521.6	5589.3	4749.5	4021.2	3347.5	2727.0	2197.2	1730.7
-42.5°	9038.1	8017.6	7051.6	6127.4	5295.5	4525.6	3822.2	3190.3	2615.4	2109.3	1659.8
-45°	8418.7	7466.2	6572.9	5756.1	4982.8	4281.0	3633.3	3024.0	2490.5	2020.4	1587.4
-47.5°	7773.8	6917.4	6108.8	5358.2	4688.0	4027.0	3430.3	2867.3	2352.5	1924.0	1514.9
-50°	7150.2	6373.3	5647.7	4981.0	4358.1	3788.6	3218.8	2694.8	2228.7	1816.2	1435.2
-52.5°	6521.4	5844.5	5200.2	4597.2	4051.9	3536.0	3006.8	2510.9	2094.1	1707.1	1348.6
-55°	5908.7	5335.6	4758.3	4229.5	3736.9	3268.8	2777.8	2345.3	1949.1	1593.3	1257.3
-57.5°	5336.9	4828.0	4336.6	3863.3	3413.3	2979.9	2561.2	2168.1	1805.5	1472.0	1176.0
-60°	4772.5	4350.8	3915.5	3491.9	3080.4	2702.0	2347.7	1985.7	1656.4	1348.2	1087.0
-62.5°	4253.8	3873.1	3498.1	3112.6	2763.5	2439.9	2126.3	1805.4	1499.3	1235.8	992.3
-65°	3748.1	3413.4	3074.6	2764.7	2462.2	2175.3	1907.8	1616.4	1356.2	1118.0	899.8
-67.5°	3254.4	2976.1	2699.5	2422.3	2170.2	1924.6	1679.6	1441.6	1212.5	995.0	820.4
-70°	2807.4	2560.2	2333.3	2112.8	1890.3	1672.9	1475.7	1269.5	1063.2	896.4	737.9
-72.5°	2381.6	2188.5	1997.5	1805.7	1627.6	1449.9	1273.0	1099.9	944.4	795.2	652.6
-75°	1981.7	1832.3	1686.3	1536.6	1379.4	1225.0	1092.3	960.1	822.8	691.0	580.8
-77.5°	1634.0	1511.0	1388.5	1274.6	1155.4	1039.6	927.7	816.7	705.6	606.6	512.6
-80°	1310.1	1220.8	1131.7	1041.2	944.6	851.4	772.8	693.7	606.1	522.4	442.7
-82.5°	1013.6	952.8	894.1	833.9	768.6	703.8	639.7	575.8	504.7	436.5	384.1
-85°	796.9	750.2	702.8	654.8	604.5	554.7	518.0	480.8	436.7	393.0	349.7
-87.5°	645.6	615.6	585.3	554.8	523.1	491.2	459.2	426.9	389.3	351.9	314.8
-90°	11.6	12.1	12.5	13.0	13.0	13.0	13.0	13.0	13.5	13.9	14.4



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	248.3	205.7	163.1	120.4	77.8	45.4	13.0
87.5°	23.4	22.7	21.7	20.4	18.8	16.5	13.0
85°	32.1	30.7	28.6	26.0	22.9	19.1	13.0
82.5°	40.8	38.6	35.6	31.7	26.9	21.6	13.0
80°	50.4	46.6	42.5	37.3	31.0	24.2	13.0
77.5°	67.1	57.7	49.4	42.8	35.0	26.8	13.0
75°	84.2	74.8	58.0	48.4	39.1	29.3	13.0
72.5°	101.6	92.1	74.0	54.0	43.2	31.9	13.0
70°	121.0	109.7	90.2	61.0	47.4	34.4	13.0
67.5°	150.6	127.6	106.5	74.7	51.6	36.9	13.0
65°	181.0	151.1	122.9	88.3	55.8	39.4	13.0
62.5°	212.3	180.2	139.4	101.9	60.0	41.8	13.0
60°	244.5	209.7	156.0	115.5	64.3	44.3	13.0
57.5°	288.7	239.7	181.4	129.0	74.1	46.7	13.0
55°	335.3	270.2	207.3	142.4	83.9	49.1	13.0
52.5°	382.8	302.8	233.3	155.8	93.5	51.4	13.0
50°	431.1	344.4	259.3	169.1	103.0	53.7	13.0
47.5°	481.7	386.2	285.4	183.9	112.3	56.0	13.0
45°	542.4	428.1	311.4	203.6	121.4	58.2	13.0
42.5°	603.5	470.1	337.3	222.9	130.2	60.4	13.0
40°	664.9	512.2	366.8	242.0	138.9	62.5	13.0
37.5°	726.5	554.1	399.4	260.7	147.3	64.6	13.0
35°	788.1	601.0	431.5	278.7	155.4	66.6	13.0
32.5°	852.8	649.9	463.0	296.1	163.2	68.5	13.0
30°	924.9	697.9	493.7	312.7	170.7	70.4	13.0
27.5°	996.2	745.0	521.7	328.7	177.9	72.1	13.0
25°	1066.3	790.9	548.2	343.8	184.8	73.8	13.0
22.5°	1134.8	833.3	573.3	358.1	191.2	75.5	13.0
20°	1201.5	868.5	596.8	371.6	197.3	77.0	13.0
17.5°	1253.9	901.0	618.9	384.1	203.0	78.4	13.0
15°	1294.6	930.9	639.2	395.7	208.3	79.7	13.0
12.5°	1330.6	957.9	657.9	406.3	213.1	80.9	13.0
10°	1361.8	982.1	674.7	415.8	217.4	82.0	13.0
7.5°	1388.3	1003.3	689.7	424.3	221.3	83.0	13.0
5°	1410.1	1021.5	702.7	431.6	224.7	83.9	13.0
2.5°	1427.2	1036.7	713.7	437.8	227.5	84.6	13.0
0°	1439.7	1048.7	722.6	442.8	229.8	85.2	13.0
-2.5°	1474.3	1068.3	734.4	449.5	233.3	86.9	13.0
-5°	1503.9	1084.5	744.0	454.9	236.3	88.4	13.0
-7.5°	1528.0	1097.2	751.2	459.1	238.7	89.8	13.0
-10°	1546.1	1106.2	756.0	461.9	240.5	91.0	13.0
-12.5°	1557.9	1111.4	758.3	463.3	241.7	92.1	13.0
-15°	1562.9	1112.6	758.1	463.3	242.4	93.0	13.0
-17.5°	1560.9	1109.7	755.2	462.0	242.4	93.7	13.0
-20°	1552.3	1102.7	749.6	459.1	241.8	94.3	13.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1538.6	1091.3	741.3	454.9	240.7	94.7	13.0
-25°	1518.9	1080.1	730.3	449.1	238.9	95.0	13.0
-27.5°	1493.2	1066.2	716.4	441.9	236.5	95.1	13.0
-30°	1461.5	1047.7	700.3	433.2	233.6	95.0	13.0
-32.5°	1423.8	1024.6	685.5	423.0	230.0	94.7	13.0
-35°	1388.7	996.7	667.8	411.4	225.9	94.2	13.0
-37.5°	1351.1	966.9	647.2	398.3	221.1	93.6	13.0
-40°	1307.4	938.1	623.6	383.8	215.8	92.8	13.0
-42.5°	1257.7	905.4	601.7	368.8	210.0	91.8	13.0
-45°	1202.1	868.8	582.0	354.0	203.5	90.7	13.0
-47.5°	1140.7	828.4	560.0	337.6	196.6	89.4	13.0
-50°	1084.9	784.2	535.7	326.1	189.1	87.9	13.0
-52.5°	1026.3	736.4	509.2	315.3	181.1	86.3	13.0
-55°	963.1	697.1	480.6	303.4	172.6	84.4	13.0
-57.5°	895.5	657.2	449.8	290.3	163.6	82.5	13.0
-60°	825.9	614.5	417.8	276.2	154.2	80.4	13.0
-62.5°	769.1	569.2	395.6	260.9	149.3	78.1	13.0
-65°	709.0	521.5	371.8	244.7	144.1	75.7	13.0
-67.5°	645.9	479.3	346.6	227.6	138.6	73.2	13.0
-70°	580.1	442.8	320.0	209.5	132.8	70.5	13.0
-72.5°	527.8	404.6	292.2	198.3	126.7	67.7	13.0
-75°	475.6	364.7	263.2	188.4	120.4	64.8	13.0
-77.5°	421.6	323.4	245.5	178.0	113.8	61.8	13.0
-80°	365.9	295.1	230.0	167.2	107.0	58.7	13.0
-82.5°	334.9	273.6	214.0	156.0	99.9	55.5	13.0
-85°	306.7	251.5	197.4	144.4	92.7	52.2	13.0
-87.5°	277.8	228.8	180.4	132.6	85.3	48.8	13.0
-90°	14.8	14.8	14.8	14.8	14.8	13.9	13.0

(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

