

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: P731617 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-70-7F-VHE**

Issue Date: 11/16/2023

**Test Information**

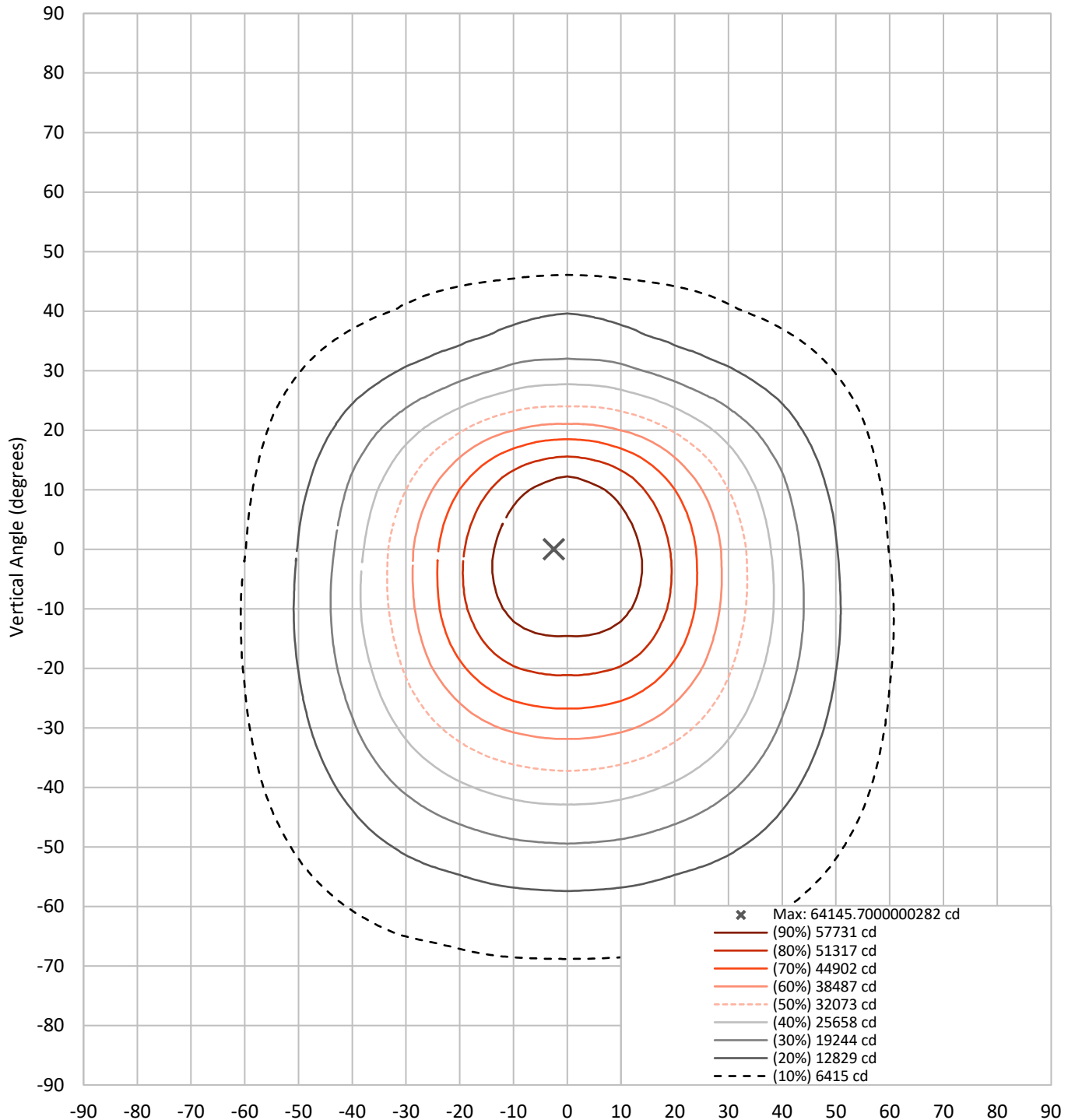
Test Method: LM-79-08  
Report Number: P731617 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680N-40-70-7F-VHE  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 70 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:	85337.4 lumens	Max Intensity:	64145.7 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	122.4 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:	46334 lumens	Field Lumens:	79968.8 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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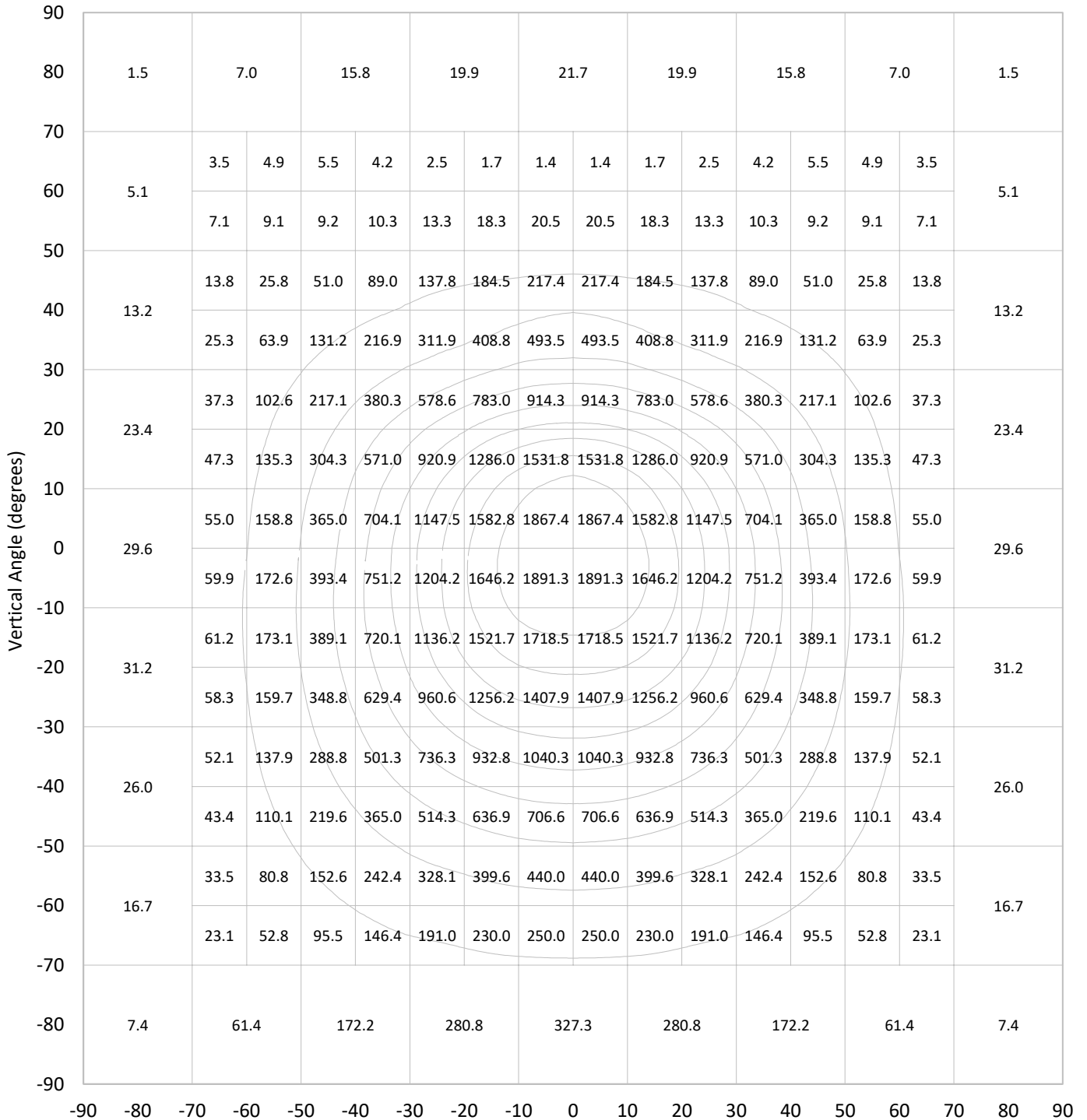
### Iso-Candela Plot





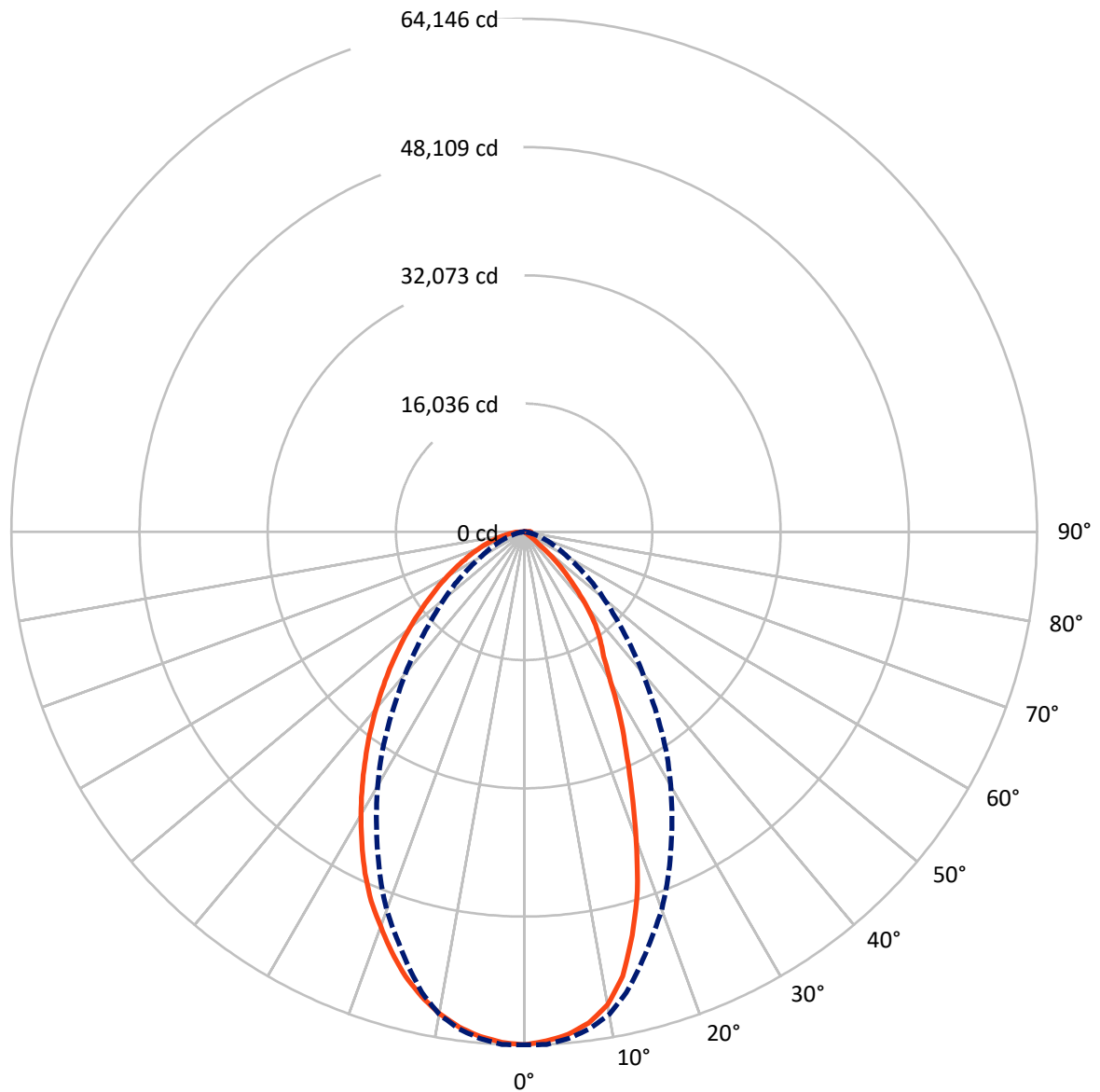
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### Lumen Table



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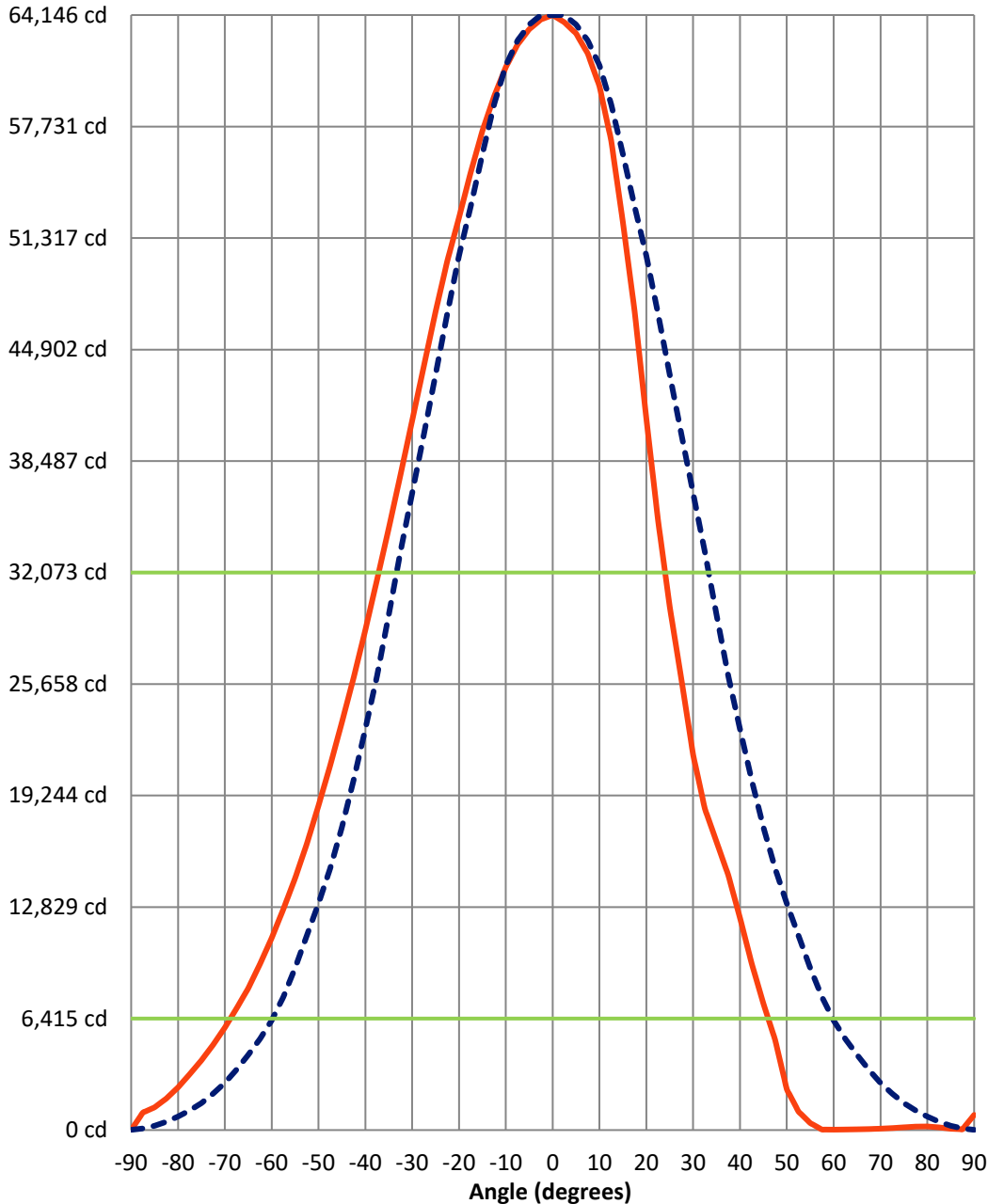
### Luminous Intensity Polar Plot



— 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: 46334  
 Efficiency: 54.3%

**Field:**  
 H Angle: 119.6°  
 V Angle: 114.9°  
 Lumens: 79968.8  
 Efficiency: 93.7%

**Spill:**  
 Lumens: 5368.5  
 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°	14.0	48.9	83.8	129.7	175.6	221.5	267.4	300.8	334.3	367.7	401.1
87.5°	14.0	17.8	20.3	22.0	23.4	24.5	25.3	25.2	24.9	24.2	23.3
85°	14.0	20.6	24.7	28.1	30.9	33.1	34.6	35.0	34.8	34.0	32.6
82.5°	14.0	23.3	29.0	34.1	38.3	41.6	43.9	44.9	45.6	49.0	51.6
80°	14.0	26.1	33.4	40.1	45.8	50.1	54.3	61.2	67.2	72.2	76.2
77.5°	14.0	28.9	37.8	46.2	53.2	62.1	72.3	80.9	88.8	95.5	98.6
75°	14.0	31.6	42.2	52.1	62.4	80.5	90.6	100.5	110.8	117.6	114.3
72.5°	14.0	34.3	46.6	58.1	79.7	99.2	109.4	122.7	137.5	140.5	131.9
70°	14.0	37.0	51.1	65.7	97.1	118.1	130.3	152.4	165.5	165.6	169.4
67.5°	14.0	39.7	55.5	80.4	114.7	137.4	162.2	183.0	195.3	212.3	213.6
65°	14.0	42.4	60.1	95.1	132.3	162.7	194.9	214.7	244.1	260.9	264.5
62.5°	14.0	45.1	64.6	109.8	150.1	194.0	228.6	258.6	294.5	314.8	328.2
60°	14.0	47.7	69.2	124.4	168.0	225.8	263.3	308.2	346.6	382.8	395.9
57.5°	14.0	50.3	79.8	138.9	195.4	258.2	311.0	359.6	412.3	454.0	475.1
55°	14.0	52.9	90.4	153.4	223.3	291.0	361.2	414.6	483.2	531.4	563.6
52.5°	14.0	55.4	100.7	167.8	251.3	326.1	412.2	483.9	556.4	623.4	658.8
50°	14.0	57.9	110.9	182.1	279.3	370.9	464.2	556.3	636.4	720.2	778.4
47.5°	14.0	60.3	120.9	198.0	307.3	415.9	518.8	630.3	729.8	822.0	910.5
45°	14.0	62.7	130.7	219.2	335.4	461.1	584.1	705.7	830.9	953.4	1053.3
42.5°	14.0	65.1	140.3	240.1	363.3	506.3	649.9	791.0	935.2	1092.7	1245.3
40°	14.0	67.3	149.6	260.7	395.0	551.6	716.0	883.9	1048.8	1238.6	1458.8
37.5°	14.0	69.6	158.6	280.7	430.2	596.7	782.3	978.0	1175.7	1394.7	1687.4
35°	14.0	71.7	167.3	300.1	464.8	647.2	848.6	1073.0	1301.5	1576.6	1942.3
32.5°	14.0	73.8	175.7	318.9	498.6	699.8	918.4	1168.8	1425.9	1751.0	2166.9
30°	14.0	75.8	183.8	336.8	531.7	751.6	996.1	1266.8	1548.5	1917.8	2377.4
27.5°	14.0	77.7	191.6	354.0	561.9	802.3	1072.8	1368.9	1676.6	2076.6	2573.6
25°	14.0	79.6	198.9	370.3	590.4	851.7	1148.3	1468.3	1811.7	2238.6	2756.3
22.5°	14.0	81.3	205.9	385.7	617.4	897.3	1222.1	1564.7	1939.4	2395.0	2948.4
20°	14.0	82.9	212.5	400.2	642.7	935.3	1294.0	1657.7	2059.6	2539.1	3129.5
17.5°	14.0	84.5	218.6	413.7	666.5	970.3	1350.3	1746.8	2172.2	2671.0	3299.1
15°	14.0	85.9	224.2	426.2	688.4	1002.5	1394.2	1821.8	2276.9	2790.8	3456.4
12.5°	14.0	87.2	229.4	437.6	708.5	1031.6	1432.9	1880.3	2369.2	2898.7	3600.7
10°	14.0	88.4	234.1	447.8	726.6	1057.6	1466.6	1934.6	2452.1	3025.5	3747.7
7.5°	14.0	89.5	238.3	457.0	742.7	1080.5	1495.1	1984.2	2528.9	3151.0	3915.2
5°	14.0	90.4	241.9	464.9	756.8	1100.1	1518.6	2028.2	2598.7	3269.4	4068.4
2.5°	14.0	91.2	244.9	471.5	768.6	1116.4	1537.0	2066.1	2660.6	3378.5	4206.3
0°	14.0	91.8	247.4	476.9	778.2	1129.4	1550.4	2097.1	2713.6	3475.9	4327.9
-2.5°	14.0	93.6	251.2	484.1	790.9	1150.4	1587.7	2148.6	2779.8	3544.2	4404.8
-5°	14.0	95.2	254.4	490.0	801.2	1167.9	1619.5	2192.2	2835.7	3598.9	4464.1
-7.5°	14.0	96.7	257.0	494.4	809.0	1181.6	1645.5	2227.3	2880.8	3640.2	4505.5
-10°	14.0	98.1	258.9	497.4	814.2	1191.3	1665.0	2253.5	2914.8	3668.2	4529.1
-12.5°	14.0	99.2	260.3	499.0	816.7	1196.9	1677.7	2270.6	2937.1	3683.9	4547.6
-15°	14.0	100.2	261.0	499.0	816.4	1198.2	1683.1	2278.0	2944.8	3690.4	4552.0
-17.5°	14.0	101.0	261.0	497.5	813.3	1195.1	1680.8	2272.8	2936.3	3680.7	4535.1
-20°	14.0	101.6	260.4	494.5	807.2	1187.4	1671.6	2256.0	2914.8	3654.5	4496.4



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**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	14.0	102.1	259.2	489.8	798.3	1175.2	1656.9	2230.3	2880.0	3611.3	4435.5
-25°	14.0	102.3	257.3	483.7	786.4	1163.1	1635.7	2195.5	2831.8	3551.0	4352.2
-27.5°	14.0	102.4	254.7	475.9	771.5	1148.2	1608.0	2151.8	2769.9	3478.1	4270.4
-30°	14.0	102.3	251.5	466.5	754.1	1128.3	1573.8	2099.3	2704.8	3397.6	4169.3
-32.5°	14.0	102.0	247.7	455.6	738.2	1103.3	1533.3	2049.0	2635.2	3300.7	4047.9
-35°	14.0	101.5	243.2	443.0	719.2	1073.3	1495.5	1994.7	2555.5	3187.4	3906.4
-37.5°	14.0	100.8	238.1	429.0	696.9	1041.2	1455.0	1932.9	2465.7	3058.0	3759.5
-40°	14.0	100.0	232.4	413.3	671.6	1010.2	1407.9	1863.7	2366.0	2936.7	3604.9
-42.5°	14.0	98.9	226.1	397.2	648.0	975.0	1354.4	1787.4	2271.4	2816.5	3435.6
-45°	14.0	97.7	219.2	381.2	626.8	935.6	1294.5	1709.4	2175.7	2681.9	3256.5
-47.5°	14.0	96.3	211.7	363.6	603.1	892.0	1228.4	1631.3	2071.9	2533.3	3087.7
-50°	14.0	94.7	203.6	351.2	576.9	844.5	1168.3	1545.5	1955.8	2400.0	2902.0
-52.5°	14.0	92.9	195.0	339.6	548.4	793.0	1105.2	1452.3	1838.4	2255.0	2703.9
-55°	14.0	91.0	185.8	326.7	517.5	750.7	1037.1	1353.9	1715.8	2099.0	2525.6
-57.5°	14.0	88.9	176.2	312.7	484.4	707.7	964.3	1266.4	1585.2	1944.3	2334.8
-60°	14.0	86.6	166.1	297.4	449.9	661.7	889.4	1170.6	1451.8	1783.7	2138.4
-62.5°	14.0	84.2	160.8	281.0	426.0	613.0	828.2	1068.5	1330.8	1614.5	1944.2
-65°	14.0	81.6	155.2	263.6	400.4	561.6	763.5	969.0	1203.9	1460.5	1740.7
-67.5°	14.0	78.8	149.3	245.1	373.3	516.1	695.6	883.4	1071.5	1305.7	1552.4
-70°	14.0	76.0	143.0	225.7	344.6	476.8	624.7	794.6	965.3	1145.0	1367.1
-72.5°	14.0	73.0	136.5	213.6	314.6	435.7	568.3	702.8	856.3	1017.0	1184.5
-75°	14.0	69.8	129.6	202.9	283.4	392.8	512.2	625.4	744.1	886.1	1033.9
-77.5°	14.0	66.6	122.5	191.7	264.4	348.3	454.0	552.0	653.2	759.8	879.5
-80°	14.0	63.2	115.2	180.1	247.7	317.8	394.0	476.7	562.6	652.7	747.0
-82.5°	14.0	59.8	107.6	168.0	230.4	294.7	360.7	413.6	470.1	543.5	620.0
-85°	14.0	56.2	99.9	155.6	212.6	270.8	330.3	376.6	423.2	470.2	517.7
-87.5°	14.0	52.6	91.9	142.8	194.3	246.4	299.1	339.0	379.0	419.3	459.8
-90°	14.0	15.0	16.0	16.0	16.0	16.0	16.0	15.5	15.0	14.5	14.0





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 CATALOG NUMBER: EPH-LS-08-0680N-40-70-7F-VHE

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	430.5	460.0	489.4	518.8	547.7	576.7	605.6	634.5	661.5	688.4	715.4
87.5°	23.9	24.4	25.0	25.4	24.4	23.2	21.9	20.4	22.1	23.9	25.9
85°	33.8	34.9	37.8	40.1	41.6	43.7	46.4	49.5	55.4	61.2	67.0
82.5°	56.2	59.9	62.6	64.3	69.8	76.7	84.1	91.0	97.6	103.8	109.8
80°	81.2	85.1	85.8	86.8	94.1	103.2	112.7	122.7	130.7	138.1	145.0
77.5°	99.4	101.7	104.3	107.2	116.7	129.8	143.0	156.2	166.0	173.8	180.9
75°	113.8	117.9	127.4	133.3	143.9	159.2	174.6	189.5	199.2	204.6	208.2
72.5°	137.1	150.9	159.3	162.5	172.8	190.9	207.1	221.6	229.1	228.0	223.3
70°	173.0	185.8	196.9	201.0	205.5	223.0	236.3	246.6	251.2	242.1	224.1
67.5°	211.8	231.4	241.5	242.1	235.8	251.1	262.9	261.4	253.5	233.7	210.2
65°	261.6	280.3	289.3	285.6	268.7	272.1	271.3	264.2	246.0	218.9	190.7
62.5°	317.4	334.1	341.2	331.8	300.8	287.5	279.8	261.7	233.8	207.2	180.6
60°	388.3	392.0	396.5	379.5	340.5	303.8	289.4	271.2	241.4	205.0	183.0
57.5°	467.8	455.0	457.1	438.0	393.1	327.5	321.1	297.9	272.8	224.8	202.3
55°	559.5	524.4	529.9	512.6	471.4	398.1	373.2	369.9	334.6	296.9	255.2
52.5°	669.5	621.8	620.7	618.0	595.8	532.5	475.4	515.1	537.4	495.2	522.0
50°	793.1	769.4	733.7	775.3	788.4	754.9	704.8	815.6	949.1	1010.2	1008.6
47.5°	957.3	943.3	912.4	987.7	1081.7	1167.9	1188.7	1388.9	1591.1	1814.6	1841.2
45°	1150.7	1186.3	1168.7	1328.5	1529.9	1761.8	1934.0	2128.1	2588.4	2855.4	3250.9
42.5°	1365.3	1469.0	1563.5	1714.5	2189.7	2484.7	2744.4	3231.9	3689.8	4076.9	4485.5
40°	1641.6	1778.0	1984.4	2395.1	2907.4	3248.9	3696.0	4251.5	4715.2	5152.2	5570.6
37.5°	1941.1	2169.0	2448.5	3037.2	3620.1	4048.0	4595.5	5146.4	5673.5	6163.9	6748.9
35°	2257.7	2561.2	3001.4	3616.5	4228.3	4824.2	5426.7	6040.4	6642.0	7314.0	7971.9
32.5°	2602.3	2954.0	3509.6	4162.8	4847.5	5539.8	6239.9	6956.3	7720.9	8504.5	9202.4
30°	2913.2	3391.6	3982.9	4691.3	5464.1	6259.2	7076.1	7900.7	8839.4	9766.9	10604.2
27.5°	3150.7	3792.3	4452.7	5235.7	6082.4	6969.1	7915.6	8937.3	10030.3	11093.4	12087.4
25°	3378.6	4100.7	4903.2	5779.9	6720.5	7717.5	8776.3	9920.0	11261.2	12506.9	13746.7
22.5°	3617.3	4411.3	5277.3	6310.2	7341.6	8476.4	9651.1	10967.4	12449.6	13922.3	15428.9
20°	3871.3	4732.8	5646.7	6735.9	7922.8	9224.0	10474.5	12006.5	13655.3	15366.7	17204.4
17.5°	4118.9	5028.4	6004.6	7152.7	8439.1	9896.5	11268.3	13012.3	14839.5	16796.8	18875.4
15°	4357.4	5297.7	6331.1	7535.9	8938.5	10485.6	12090.1	14001.0	16044.5	18205.4	20388.1
12.5°	4584.2	5540.8	6625.4	7883.8	9404.8	11058.1	12825.6	14835.3	17073.5	19462.1	21841.3
10°	4796.2	5757.9	6886.9	8194.6	9832.5	11604.0	13480.2	15581.1	17908.3	20369.2	23022.9
7.5°	4956.9	5938.1	7117.5	8466.7	10215.9	12112.7	14053.1	16234.7	18613.8	21176.9	24029.7
5°	5079.9	6084.6	7330.8	8780.8	10584.2	12533.7	14524.4	16791.9	19192.0	21871.8	24898.7
2.5°	5173.4	6208.3	7513.5	9072.6	10914.1	12820.4	14831.8	17157.6	19712.3	22520.8	25605.1
0°	5241.7	6307.2	7662.0	9322.2	11181.8	13031.5	15058.7	17423.2	20134.8	23069.9	26126.8
-2.5°	5357.6	6482.6	7869.7	9520.0	11348.8	13238.1	15351.1	17793.0	20535.7	23416.3	26576.5
-5°	5450.4	6626.9	8037.6	9668.7	11457.7	13373.3	15552.5	18050.1	20798.1	23649.7	26808.7
-7.5°	5517.6	6736.1	8163.7	9767.4	11530.3	13482.6	15693.3	18178.1	20896.3	23789.0	26845.1
-10°	5557.3	6787.7	8203.4	9796.7	11569.5	13541.5	15747.4	18196.9	20866.9	23756.2	26745.6
-12.5°	5572.3	6786.5	8191.2	9772.8	11539.4	13513.4	15704.6	18108.1	20713.1	23545.1	26492.0
-15°	5562.4	6751.8	8134.1	9695.2	11437.8	13395.0	15564.0	17913.9	20427.5	23115.1	25979.0
-17.5°	5527.5	6683.2	8031.7	9563.5	11263.1	13183.8	15313.5	17554.9	20017.2	22618.6	25327.2
-20°	5467.8	6580.8	7883.5	9377.5	11024.5	12906.4	14959.6	17129.4	19494.6	22026.0	24597.0



REPORT NUMBER: P731617 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-7F-VHE

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	5383.2	6444.7	7710.4	9168.0	10795.7	12591.2	14537.1	16617.4	18828.8	21318.9	23769.1
-25°	5286.1	6324.6	7529.3	8939.8	10506.4	12221.9	14042.3	16031.4	18118.6	20449.2	22820.9
-27.5°	5175.3	6178.5	7336.3	8666.3	10151.4	11811.4	13552.0	15419.1	17395.5	19491.0	21765.0
-30°	5038.3	6012.6	7105.2	8366.8	9791.9	11364.7	13038.3	14726.2	16598.2	18574.0	20658.4
-32.5°	4875.9	5812.2	6874.6	8076.1	9400.5	10847.6	12438.8	14043.8	15771.1	17599.6	19531.4
-35°	4702.1	5608.7	6617.6	7745.0	8971.1	10327.3	11780.5	13307.3	14895.8	16614.0	18313.4
-37.5°	4527.2	5376.0	6317.5	7394.4	8568.9	9773.7	11080.8	12533.2	14021.8	15541.0	17101.6
-40°	4330.4	5114.6	6018.9	7023.0	8086.5	9204.4	10429.1	11725.6	13109.6	14480.0	15878.9
-42.5°	4116.0	4873.5	5702.6	6598.5	7593.8	8634.0	9732.9	10946.1	12152.4	13397.1	14688.7
-45°	3912.6	4610.1	5365.8	6198.6	7078.2	8040.2	9065.9	10126.3	11212.2	12312.2	13488.0
-47.5°	3694.0	4336.5	5048.4	5770.1	6578.5	7449.2	8371.5	9325.7	10266.2	11274.8	12279.8
-50°	3466.3	4079.8	4693.1	5363.9	6081.9	6863.3	7699.9	8522.7	9382.7	10256.0	11161.9
-52.5°	3237.9	3807.8	4363.4	4950.6	5599.9	6293.8	7022.8	7757.9	8522.2	9291.0	10067.4
-55°	2991.4	3520.1	4024.2	4554.6	5124.0	5745.8	6362.9	7024.3	7686.8	8390.3	9028.2
-57.5°	2758.2	3209.0	3675.7	4160.3	4669.9	5199.1	5747.1	6300.5	6903.4	7510.1	8056.6
-60°	2528.2	2909.8	3317.3	3760.4	4216.5	4685.2	5139.4	5633.2	6143.3	6640.1	7140.2
-62.5°	2289.8	2627.5	2976.0	3351.9	3767.0	4170.8	4580.8	4996.9	5412.4	5853.2	6276.0
-65°	2054.5	2342.6	2651.5	2977.3	3311.0	3675.9	4036.3	4387.7	4758.9	5119.6	5469.9
-67.5°	1808.7	2072.6	2337.1	2608.5	2907.0	3204.9	3504.6	3827.5	4140.9	4435.7	4732.7
-70°	1589.1	1801.5	2035.6	2275.2	2512.6	2757.0	3023.2	3290.1	3552.0	3803.2	4060.3
-72.5°	1370.9	1561.4	1752.7	1944.5	2151.0	2356.7	2564.6	2774.0	2993.0	3212.2	3425.3
-75°	1176.3	1319.2	1485.5	1654.7	1815.9	1973.2	2134.1	2312.1	2487.2	2659.1	2829.4
-77.5°	999.0	1119.6	1244.3	1372.7	1495.3	1627.2	1759.6	1892.3	2022.9	2150.8	2276.0
-80°	832.3	916.9	1017.2	1121.3	1218.7	1314.7	1410.8	1506.7	1603.4	1704.7	1809.1
-82.5°	688.9	757.9	827.7	898.1	962.9	1026.1	1091.5	1166.3	1242.8	1318.9	1394.0
-85°	557.8	597.4	651.0	705.1	756.9	807.8	858.1	907.7	958.5	1008.7	1058.1
-87.5°	494.5	529.0	563.3	597.5	630.3	662.9	695.2	727.3	760.0	792.8	825.4
-90°	14.0	14.0	14.0	14.0	13.5	13.0	12.5	12.0	11.5	11.0	10.5



REPORT NUMBER: P731617 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-7F-VHE

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	742.3	750.8	759.3	767.7	776.2	796.2	816.1	836.1	856.0	860.5	865.0
87.5°	27.9	28.0	28.0	27.9	27.9	32.3	36.9	41.7	46.4	45.9	45.3
85°	72.5	73.6	74.1	74.1	73.8	79.9	86.2	92.2	98.0	94.1	89.5
82.5°	115.6	117.7	119.7	121.8	124.0	130.3	136.6	142.5	148.1	150.0	151.7
80°	151.3	155.3	158.2	160.5	162.2	167.6	173.5	179.0	184.3	189.9	195.6
77.5°	185.9	187.2	186.5	184.7	181.8	182.6	183.9	184.5	184.6	187.5	190.8
75°	209.9	207.1	198.9	189.5	178.9	172.4	167.6	162.5	157.3	156.4	156.8
72.5°	215.2	204.3	190.8	174.0	157.5	146.0	138.2	130.7	123.6	120.1	118.0
70°	203.8	182.9	164.7	146.7	129.2	116.2	108.4	101.3	94.9	90.8	87.8
67.5°	183.5	157.6	138.5	120.1	102.9	89.5	82.7	76.5	70.8	66.7	63.7
65°	163.0	135.4	116.9	99.2	81.9	68.7	63.5	58.4	53.4	49.6	47.6
62.5°	151.5	122.6	103.5	88.0	72.4	57.0	51.7	46.4	41.1	37.1	35.3
60°	155.6	122.8	99.6	85.2	69.0	51.3	44.5	39.7	34.4	29.6	27.8
57.5°	179.9	144.2	109.4	103.8	87.4	61.3	63.8	74.2	66.4	45.8	43.5
55°	275.2	266.3	174.3	225.6	262.4	247.2	230.9	305.7	342.1	344.0	377.7
52.5°	546.9	611.5	587.5	615.4	767.2	828.7	820.6	954.2	1023.4	1014.0	1050.2
50°	1151.7	1283.8	1446.5	1472.7	1727.2	1903.7	1946.3	2101.1	2272.9	2338.7	2412.7
47.5°	2247.5	2557.2	2714.3	2891.5	3184.4	3505.5	3754.2	3976.9	4218.3	4383.4	4582.6
45°	3661.1	3879.9	4153.3	4564.8	5012.0	5430.9	5824.4	6183.0	6419.5	6630.4	6854.3
42.5°	4824.0	5173.5	5632.1	6245.9	6882.2	7312.2	7635.8	7981.4	8350.9	8702.2	9026.0
40°	6014.8	6419.8	7147.4	7842.9	8317.7	8732.7	9175.8	9644.7	10127.8	10588.6	11046.9
37.5°	7291.0	7889.5	8526.7	9134.6	9637.0	10029.6	10636.8	11156.3	11640.3	12326.5	12955.8
35°	8649.0	9299.5	9846.9	10542.3	11104.0	11588.2	12223.6	12877.8	13296.7	14238.0	15052.8
32.5°	10000.1	10758.2	11488.1	12148.4	12845.3	13592.0	14210.3	15107.9	15790.7	16691.0	17576.0
30°	11407.8	12447.1	13358.2	14082.8	15032.2	15997.4	16865.1	17922.0	18928.5	19766.4	20704.4
27.5°	13184.1	14339.7	15450.8	16567.5	17581.7	18787.1	20168.2	21286.2	22574.7	23488.3	24469.3
25°	15068.8	16445.4	17923.1	19362.6	20693.2	22252.5	23818.3	25184.2	26519.7	27572.3	28620.7
22.5°	17118.2	18782.8	20541.6	22353.7	24152.4	25860.8	27541.6	29231.9	30771.2	32218.1	33226.1
20°	19199.4	21048.0	23183.9	25367.2	27438.3	29366.6	31386.4	33523.9	35479.9	37156.7	38398.4
17.5°	21077.0	23395.7	25744.9	28140.3	30476.1	32859.2	35365.2	37879.2	40195.2	42158.9	43807.4
15°	22768.4	25395.5	28115.1	30817.8	33503.9	36247.6	39175.9	41884.6	44480.4	46732.4	48659.7
12.5°	24436.3	27242.3	30157.5	33187.9	36372.2	39343.1	42324.4	45245.2	47965.5	50583.3	52514.1
10°	25912.5	28942.3	32063.3	35310.6	38608.7	41831.7	44974.2	48018.9	50691.7	53163.6	55499.4
7.5°	27115.3	30364.7	33695.7	37111.1	40505.6	43769.3	46969.7	50012.4	52725.3	55258.4	57647.1
5°	28152.7	31599.0	35036.9	38440.4	41855.9	45241.1	48472.4	51472.5	54298.3	56930.6	59324.5
2.5°	28999.3	32592.8	36076.2	39428.3	42830.1	46295.2	49607.9	52506.4	55460.2	58137.5	60493.7
0°	29634.6	33262.1	36634.2	40016.2	43460.2	46964.0	50296.2	53135.5	56142.5	59003.7	61244.5
-2.5°	29982.1	33396.5	36753.0	40146.2	43693.9	47298.2	50625.7	53686.1	56675.7	59357.9	61441.1
-5°	30102.8	33461.7	36806.0	40260.5	43777.4	47325.0	50641.2	53709.7	56580.7	59089.4	60989.5
-7.5°	30021.7	33347.6	36658.5	40079.0	43573.6	47078.8	50341.8	53276.9	56041.7	58417.9	60231.0
-10°	29777.2	32997.9	36310.0	39674.2	43176.3	46636.9	49834.6	52482.5	55122.3	57351.6	59066.0
-12.5°	29373.0	32456.7	35723.1	39012.8	42448.9	45775.3	48755.0	51391.6	53750.4	56008.5	57509.0
-15°	28799.6	31772.7	34895.6	38116.9	41372.2	44590.3	47495.7	50044.0	52229.3	54010.5	55590.8
-17.5°	28080.3	30949.1	33941.5	37028.4	40051.3	43112.9	45805.4	48359.2	50461.2	52046.9	53273.2
-20°	27195.0	29979.1	32840.8	35787.9	38596.6	41200.5	43796.1	46170.7	48248.4	49799.0	50977.5



REPORT NUMBER: P731617 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-7F-VHE

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	26260.6	28887.1	31598.3	34255.7	36813.4	39261.2	41612.0	43791.5	45767.2	47233.2	48361.0
-25°	25197.3	27653.8	30160.6	32560.5	34896.4	37175.4	39306.2	41325.7	43050.3	44476.5	45523.6
-27.5°	24032.9	26320.1	28582.7	30814.7	32982.0	34952.1	36912.7	38735.7	40252.4	41563.9	42491.2
-30°	22760.4	24852.2	26972.7	29065.0	30939.8	32714.5	34456.4	36038.8	37429.1	38580.7	39412.4
-32.5°	21418.4	23329.4	25296.3	27188.2	28832.3	30433.4	31952.3	33339.5	34614.3	35631.9	36382.0
-35°	20031.0	21801.4	23567.7	25203.5	26736.0	28160.2	29469.0	30698.6	31754.7	32682.2	33417.5
-37.5°	18666.3	20261.0	21793.9	23222.2	24638.1	25944.3	27087.5	28166.3	29126.5	29900.1	30544.7
-40°	17327.9	18739.4	20044.5	21315.8	22581.0	23686.8	24724.9	25655.2	26504.9	27244.1	27816.7
-42.5°	15997.5	17212.9	18339.4	19483.5	20577.3	21536.3	22440.2	23246.3	23983.6	24645.9	25201.3
-45°	14662.1	15701.7	16704.2	17710.1	18618.4	19472.5	20258.1	20966.4	21625.1	22182.9	22638.1
-47.5°	13298.3	14220.5	15131.2	16002.8	16756.3	17494.3	18170.7	18806.9	19400.5	19902.1	20304.3
-50°	11996.0	12811.1	13626.6	14347.1	14980.7	15595.2	16167.6	16781.9	17331.3	17788.3	18120.7
-52.5°	10773.4	11510.5	12211.4	12801.5	13337.1	13817.0	14256.6	14827.3	15344.4	15793.2	16088.0
-55°	9660.0	10290.8	10891.8	11379.3	11826.5	12226.7	12625.8	13084.4	13501.9	13875.3	14121.6
-57.5°	8612.0	9146.7	9646.6	10057.1	10430.1	10764.7	11135.3	11518.7	11861.0	12155.7	12354.1
-60°	7618.4	8073.5	8488.2	8825.9	9135.8	9417.5	9770.2	10104.8	10400.7	10641.1	10789.2
-62.5°	6681.0	7089.2	7411.7	7683.2	7930.8	8168.1	8476.3	8765.4	9032.3	9245.6	9369.5
-65°	5822.9	6180.3	6419.9	6634.8	6830.0	7043.8	7305.8	7541.0	7749.5	7907.8	8015.7
-67.5°	5040.5	5323.4	5512.3	5683.0	5850.2	6033.1	6255.5	6460.8	6648.5	6778.9	6859.5
-70°	4311.8	4529.8	4683.0	4828.2	4967.7	5124.6	5306.8	5476.4	5633.1	5734.3	5798.6
-72.5°	3631.9	3798.1	3924.6	4049.6	4162.2	4296.6	4445.2	4584.4	4713.6	4789.7	4838.7
-75°	2997.6	3124.9	3228.6	3324.5	3412.5	3525.6	3646.0	3758.9	3864.1	3922.2	3959.8
-77.5°	2409.4	2506.9	2584.9	2656.4	2721.2	2810.9	2903.5	2990.5	3071.6	3123.4	3164.9
-80°	1911.2	1970.2	2018.1	2062.8	2104.0	2171.1	2239.0	2303.0	2363.0	2396.8	2423.6
-82.5°	1468.0	1503.9	1532.4	1557.5	1579.0	1625.7	1672.3	1716.4	1758.0	1779.8	1798.3
-85°	1106.6	1125.9	1142.1	1156.5	1169.2	1201.7	1233.8	1264.8	1294.6	1300.9	1305.4
-87.5°	858.0	868.5	878.4	888.0	897.3	921.3	945.3	969.1	992.7	996.9	1000.5
-90°	10.0	9.5	9.0	8.5	8.0	7.5	7.0	6.5	6.0	5.5	5.0



REPORT NUMBER: P731617 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-7F-VHE

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	869.5	874.0	871.0	868.0	871.0	874.0	869.5	865.0	860.5	856.0	836.1
87.5°	44.6	43.7	43.9	43.9	43.9	43.7	44.6	45.3	45.9	46.4	41.7
85°	84.7	79.6	75.8	71.8	75.8	79.6	84.7	89.5	94.1	98.0	92.2
82.5°	153.3	154.7	154.4	153.6	154.4	154.7	153.3	151.7	150.0	148.1	142.5
80°	201.2	206.6	208.3	209.5	208.3	206.6	201.2	195.6	189.9	184.3	179.0
77.5°	194.2	197.5	198.5	199.5	198.5	197.5	194.2	190.8	187.5	184.6	184.5
75°	157.4	158.4	157.8	157.6	157.8	158.4	157.4	156.8	156.4	157.3	162.5
72.5°	116.3	114.9	114.0	113.7	114.0	114.9	116.3	118.0	120.1	123.6	130.7
70°	85.2	82.9	81.1	79.8	81.1	82.9	85.2	87.8	90.8	94.9	101.3
67.5°	61.1	58.9	57.2	55.9	57.2	58.9	61.1	63.7	66.7	70.8	76.5
65°	45.9	44.6	43.1	41.9	43.1	44.6	45.9	47.6	49.6	53.4	58.4
62.5°	33.8	32.6	32.0	31.9	32.0	32.6	33.8	35.3	37.1	41.1	46.4
60°	26.2	24.6	24.0	23.9	24.0	24.6	26.2	27.8	29.6	34.4	39.7
57.5°	39.2	33.6	30.2	27.9	30.2	33.6	39.2	43.5	45.8	66.4	74.2
55°	395.7	396.8	404.8	413.0	404.8	396.8	395.7	377.7	344.0	342.1	305.7
52.5°	1077.8	1074.3	1064.6	1045.6	1064.6	1074.3	1077.8	1050.2	1014.0	1023.4	954.2
50°	2457.1	2422.4	2347.2	2240.7	2347.2	2422.4	2457.1	2412.7	2338.7	2272.9	2101.1
47.5°	4850.8	5051.5	5190.3	5251.7	5190.3	5051.5	4850.8	4582.6	4383.4	4218.3	3976.9
45°	7087.3	7206.3	7275.8	7330.8	7275.8	7206.3	7087.3	6854.3	6630.4	6419.5	6183.0
42.5°	9301.7	9490.3	9583.3	9567.6	9583.3	9490.3	9301.7	9026.0	8702.2	8350.9	7981.4
40°	11487.2	11882.0	12206.1	12438.9	12206.1	11882.0	11487.2	11046.9	10588.6	10127.8	9644.7
37.5°	13578.3	14166.2	14662.9	15022.8	14662.9	14166.2	13578.3	12955.8	12326.5	11640.3	11156.3
35°	15719.5	16238.0	16578.3	16726.8	16578.3	16238.0	15719.5	15052.8	14238.0	13296.7	12877.8
32.5°	18140.4	18428.5	18489.5	18644.3	18489.5	18428.5	18140.4	17576.0	16691.0	15790.7	15107.9
30°	21275.6	21575.1	21582.4	21777.0	21582.4	21575.1	21275.6	20704.4	19766.4	18928.5	17922.0
27.5°	25242.7	25747.0	25910.7	26082.9	25910.7	25747.0	25242.7	24469.3	23488.3	22574.7	21286.2
25°	29490.6	29960.7	30111.3	30053.6	30111.3	29960.7	29490.6	28620.7	27572.3	26519.7	25184.2
22.5°	34258.6	34868.1	35089.9	34978.0	35089.9	34868.1	34258.6	33226.1	32218.1	30771.2	29231.9
20°	39595.1	40474.8	40939.8	41149.6	40939.8	40474.8	39595.1	38398.4	37156.7	35479.9	33523.9
17.5°	45212.0	46508.4	47103.8	47279.2	47103.8	46508.4	45212.0	43807.4	42158.9	40195.2	37879.2
15°	50322.0	51454.0	52226.0	52622.7	52226.0	51454.0	50322.0	48659.7	46732.4	44480.4	41884.6
12.5°	54273.1	55715.8	56918.3	57563.1	56918.3	55715.8	54273.1	52514.1	50583.3	47965.5	45245.2
10°	57493.8	58950.5	60043.9	60574.1	60043.9	58950.5	57493.8	55499.4	53163.6	50691.7	48018.9
7.5°	59722.1	61076.0	61924.8	62272.1	61924.8	61076.0	59722.1	57647.1	55258.4	52725.3	50012.4
5°	61162.5	62456.9	63084.3	63309.7	63084.3	62456.9	61162.5	59324.5	56930.6	54298.3	51472.5
2.5°	62199.5	63223.7	63726.2	63758.6	63726.2	63223.7	62199.5	60493.7	58137.5	55460.2	52506.4
0°	62673.2	63595.0	64145.7	64135.7	64145.7	63595.0	62673.2	61244.5	59003.7	56142.5	53135.5
-2.5°	62696.1	63498.1	63889.5	63668.8	63889.5	63498.1	62696.1	61441.1	59357.9	56675.7	53686.1
-5°	62248.9	63033.9	63327.2	63259.8	63327.2	63033.9	62248.9	60989.5	59089.4	56580.7	53709.7
-7.5°	61446.2	62142.6	62442.0	62451.7	62442.0	62142.6	61446.2	60231.0	58417.9	56041.7	53276.9
-10°	60222.0	60803.9	61146.7	61049.0	61146.7	60803.9	60222.0	59066.0	57351.6	55122.3	52482.5
-12.5°	58602.4	59176.8	59467.6	59408.8	59467.6	59176.8	58602.4	57509.0	56008.5	53750.4	51391.6
-15°	56665.2	57211.1	57483.5	57457.4	57483.5	57211.1	56665.2	55590.8	54010.5	52229.3	50044.0
-17.5°	54266.7	54813.9	55092.9	55130.8	55092.9	54813.9	54266.7	53273.2	52046.9	50461.2	48359.2
-20°	51753.2	52235.8	52491.3	52495.0	52491.3	52235.8	51753.2	50977.5	49799.0	48248.4	46170.7



REPORT NUMBER: P731617 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-7F-VHE

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	49147.6	49689.5	49992.8	49947.0	49992.8	49689.5	49147.6	48361.0	47233.2	45767.2	43791.5
-25°	46243.5	46786.6	47081.4	47069.7	47081.4	46786.6	46243.5	45523.6	44476.5	43050.3	41325.7
-27.5°	43143.1	43665.1	43949.7	43984.9	43949.7	43665.1	43143.1	42491.2	41563.9	40252.4	38735.7
-30°	40020.2	40534.8	40813.5	40836.3	40813.5	40534.8	40020.2	39412.4	38580.7	37429.1	36038.8
-32.5°	36960.0	37424.7	37682.1	37709.6	37682.1	37424.7	36960.0	36382.0	35631.9	34614.3	33339.5
-35°	33974.5	34382.7	34613.8	34688.7	34613.8	34382.7	33974.5	33417.5	32682.2	31754.7	30698.6
-37.5°	31068.7	31437.8	31660.9	31797.5	31660.9	31437.8	31068.7	30544.7	29900.1	29126.5	28166.3
-40°	28262.1	28585.5	28763.4	28766.6	28763.4	28585.5	28262.1	27816.7	27244.1	26504.9	25655.2
-42.5°	25612.6	25884.8	26020.8	26023.0	26020.8	25884.8	25612.6	25201.3	24645.9	23983.6	23246.3
-45°	23004.8	23271.1	23459.6	23578.8	23459.6	23271.1	23004.8	22638.1	22182.9	21625.1	20966.4
-47.5°	20611.2	20829.5	20979.2	21060.7	20979.2	20829.5	20611.2	20304.3	19902.1	19400.5	18806.9
-50°	18364.3	18538.8	18666.5	18742.1	18666.5	18538.8	18364.3	18120.7	17788.3	17331.3	16781.9
-52.5°	16288.0	16415.4	16461.2	16431.5	16461.2	16415.4	16288.0	16088.0	15793.2	15344.4	14827.3
-55°	14306.2	14433.3	14484.0	14466.1	14484.0	14433.3	14306.2	14121.6	13875.3	13501.9	13084.4
-57.5°	12510.2	12622.8	12712.9	12768.1	12712.9	12622.8	12510.2	12354.1	12155.7	11861.0	11518.7
-60°	10905.8	10989.1	11045.7	11068.1	11045.7	10989.1	10905.8	10789.2	10641.1	10400.7	10104.8
-62.5°	9456.6	9508.4	9548.6	9565.6	9548.6	9508.4	9456.6	9369.5	9245.6	9032.3	8765.4
-65°	8101.7	8165.0	8157.3	8113.0	8157.3	8165.0	8101.7	8015.7	7907.8	7749.5	7541.0
-67.5°	6920.4	6961.5	6997.0	7015.6	6997.0	6961.5	6920.4	6859.5	6778.9	6648.5	6460.8
-70°	5847.7	5881.4	5894.0	5890.2	5894.0	5881.4	5847.7	5798.6	5734.3	5633.1	5476.4
-72.5°	4875.5	4900.2	4905.0	4896.5	4905.0	4900.2	4875.5	4838.7	4789.7	4713.6	4584.4
-75°	3986.5	4002.9	4011.1	4010.6	4011.1	4002.9	3986.5	3959.8	3922.2	3864.1	3758.9
-77.5°	3199.5	3227.1	3215.3	3194.5	3215.3	3227.1	3199.5	3164.9	3123.4	3071.6	2990.5
-80°	2445.4	2462.2	2453.0	2438.3	2453.0	2462.2	2445.4	2423.6	2396.8	2363.0	2303.0
-82.5°	1814.3	1827.6	1812.5	1793.8	1812.5	1827.6	1814.3	1798.3	1779.8	1758.0	1716.4
-85°	1308.6	1310.6	1309.3	1306.9	1309.3	1310.6	1308.6	1305.4	1300.9	1294.6	1264.8
-87.5°	1004.0	1007.1	1004.5	1001.7	1004.5	1007.1	1004.0	1000.5	996.9	992.7	969.1
-90°	4.5	4.0	5.0	6.0	5.0	4.0	4.5	5.0	5.5	6.0	6.5





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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	816.1	796.2	776.2	767.7	759.3	750.8	742.3	715.4	688.4	661.5	634.5
87.5°	36.9	32.3	27.9	27.9	28.0	28.0	27.9	25.9	23.9	22.1	20.4
85°	86.2	79.9	73.8	74.1	74.1	73.6	72.5	67.0	61.2	55.4	49.5
82.5°	136.6	130.3	124.0	121.8	119.7	117.7	115.6	109.8	103.8	97.6	91.0
80°	173.5	167.6	162.2	160.5	158.2	155.3	151.3	145.0	138.1	130.7	122.7
77.5°	183.9	182.6	181.8	184.7	186.5	187.2	185.9	180.9	173.8	166.0	156.2
75°	167.6	172.4	178.9	189.5	198.9	207.1	209.9	208.2	204.6	199.2	189.5
72.5°	138.2	146.0	157.5	174.0	190.8	204.3	215.2	223.3	228.0	229.1	221.6
70°	108.4	116.2	129.2	146.7	164.7	182.9	203.8	224.1	242.1	251.2	246.6
67.5°	82.7	89.5	102.9	120.1	138.5	157.6	183.5	210.2	233.7	253.5	261.4
65°	63.5	68.7	81.9	99.2	116.9	135.4	163.0	190.7	218.9	246.0	264.2
62.5°	51.7	57.0	72.4	88.0	103.5	122.6	151.5	180.6	207.2	233.8	261.7
60°	44.5	51.3	69.0	85.2	99.6	122.8	155.6	183.0	205.0	241.4	271.2
57.5°	63.8	61.3	87.4	103.8	109.4	144.2	179.9	202.3	224.8	272.8	297.9
55°	230.9	247.2	262.4	225.6	174.3	266.3	275.2	255.2	296.9	334.6	369.9
52.5°	820.6	828.7	767.2	615.4	587.5	611.5	546.9	522.0	495.2	537.4	515.1
50°	1946.3	1903.7	1727.2	1472.7	1446.5	1283.8	1151.7	1008.6	1010.2	949.1	815.6
47.5°	3754.2	3505.5	3184.4	2891.5	2714.3	2557.2	2247.5	1841.2	1814.6	1591.1	1388.9
45°	5824.4	5430.9	5012.0	4564.8	4153.3	3879.9	3661.1	3250.9	2855.4	2588.4	2128.1
42.5°	7635.8	7312.2	6882.2	6245.9	5632.1	5173.5	4824.0	4485.5	4076.9	3689.8	3231.9
40°	9175.8	8732.7	8317.7	7842.9	7147.4	6419.8	6014.8	5570.6	5152.2	4715.2	4251.5
37.5°	10636.8	10029.6	9637.0	9134.6	8526.7	7889.5	7291.0	6748.9	6163.9	5673.5	5146.4
35°	12223.6	11588.2	11104.0	10542.3	9846.9	9299.5	8649.0	7971.9	7314.0	6642.0	6040.4
32.5°	14210.3	13592.0	12845.3	12148.4	11488.1	10758.2	10000.1	9202.4	8504.5	7720.9	6956.3
30°	16865.1	15997.4	15032.2	14082.8	13358.2	12447.1	11407.8	10604.2	9766.9	8839.4	7900.7
27.5°	20168.2	18787.1	17581.7	16567.5	15450.8	14339.7	13184.1	12087.4	11093.4	10030.3	8937.3
25°	23818.3	22252.5	20693.2	19362.6	17923.1	16445.4	15068.8	13746.7	12506.9	11261.2	9920.0
22.5°	27541.6	25860.8	24152.4	22353.7	20541.6	18782.8	17118.2	15428.9	13922.3	12449.6	10967.4
20°	31386.4	29366.6	27438.3	25367.2	23183.9	21048.0	19199.4	17204.4	15366.7	13655.3	12006.5
17.5°	35365.2	32859.2	30476.1	28140.3	25744.9	23395.7	21077.0	18875.4	16796.8	14839.5	13012.3
15°	39175.9	36247.6	33503.9	30817.8	28115.1	25395.5	22768.4	20388.1	18205.4	16044.5	14001.0
12.5°	42324.4	39343.1	36372.2	33187.9	30157.5	27242.3	24436.3	21841.3	19462.1	17073.5	14835.3
10°	44974.2	41831.7	38608.7	35310.6	32063.3	28942.3	25912.5	23022.9	20369.2	17908.3	15581.1
7.5°	46969.7	43769.3	40505.6	37111.1	33695.7	30364.7	27115.3	24029.7	21176.9	18613.8	16234.7
5°	48472.4	45241.1	41855.9	38440.4	35036.9	31599.0	28152.7	24898.7	21871.8	19192.0	16791.9
2.5°	49607.9	46295.2	42830.1	39428.3	36076.2	32592.8	28999.3	25605.1	22520.8	19712.3	17157.6
0°	50296.2	46964.0	43460.2	40016.2	36634.2	33262.1	29634.6	26126.8	23069.9	20134.8	17423.2
-2.5°	50625.7	47298.2	43693.9	40146.2	36753.0	33396.5	29982.1	26576.5	23416.3	20535.7	17793.0
-5°	50641.2	47325.0	43777.4	40260.5	36806.0	33461.7	30102.8	26808.7	23649.7	20798.1	18050.1
-7.5°	50341.8	47078.8	43573.6	40079.0	36658.5	33347.6	30021.7	26845.1	23789.0	20896.3	18178.1
-10°	49834.6	46636.9	43176.3	39674.2	36310.0	32997.9	29777.2	26745.6	23756.2	20866.9	18196.9
-12.5°	48755.0	45775.3	42448.9	39012.8	35723.1	32456.7	29373.0	26492.0	23545.1	20713.1	18108.1
-15°	47495.7	44590.3	41372.2	38116.9	34895.6	31772.7	28799.6	25979.0	23115.1	20427.5	17913.9
-17.5°	45805.4	43112.9	40051.3	37028.4	33941.5	30949.1	28080.3	25327.2	22618.6	20017.2	17554.9
-20°	43796.1	41200.5	38596.6	35787.9	32840.8	29979.1	27195.0	24597.0	22026.0	19494.6	17129.4



REPORT NUMBER: P731617 (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°	41612.0	39261.2	36813.4	34255.7	31598.3	28887.1	26260.6	23769.1	21318.9	18828.8	16617.4
-25°	39306.2	37175.4	34896.4	32560.5	30160.6	27653.8	25197.3	22820.9	20449.2	18118.6	16031.4
-27.5°	36912.7	34952.1	32982.0	30814.7	28582.7	26320.1	24032.9	21765.0	19491.0	17395.5	15419.1
-30°	34456.4	32714.5	30939.8	29065.0	26972.7	24852.2	22760.4	20658.4	18574.0	16598.2	14726.2
-32.5°	31952.3	30433.4	28832.3	27188.2	25296.3	23329.4	21418.4	19531.4	17599.6	15771.1	14043.8
-35°	29469.0	28160.2	26736.0	25203.5	23567.7	21801.4	20031.0	18313.4	16614.0	14895.8	13307.3
-37.5°	27087.5	25944.3	24638.1	23222.2	21793.9	20261.0	18666.3	17101.6	15541.0	14021.8	12533.2
-40°	24724.9	23686.8	22581.0	21315.8	20044.5	18739.4	17327.9	15878.9	14480.0	13109.6	11725.6
-42.5°	22440.2	21536.3	20577.3	19483.5	18339.4	17212.9	15997.5	14688.7	13397.1	12152.4	10946.1
-45°	20258.1	19472.5	18618.4	17710.1	16704.2	15701.7	14662.1	13488.0	12312.2	11212.2	10126.3
-47.5°	18170.7	17494.3	16756.3	16002.8	15131.2	14220.5	13298.3	12279.8	11274.8	10266.2	9325.7
-50°	16167.6	15595.2	14980.7	14347.1	13626.6	12811.1	11996.0	11161.9	10256.0	9382.7	8522.7
-52.5°	14256.6	13817.0	13337.1	12801.5	12211.4	11510.5	10773.4	10067.4	9291.0	8522.2	7757.9
-55°	12625.8	12226.7	11826.5	11379.3	10891.8	10290.8	9660.0	9028.2	8390.3	7686.8	7024.3
-57.5°	11135.3	10764.7	10430.1	10057.1	9646.6	9146.7	8612.0	8056.6	7510.1	6903.4	6300.5
-60°	9770.2	9417.5	9135.8	8825.9	8488.2	8073.5	7618.4	7140.2	6640.1	6143.3	5633.2
-62.5°	8476.3	8168.1	7930.8	7683.2	7411.7	7089.2	6681.0	6276.0	5853.2	5412.4	4996.9
-65°	7305.8	7043.8	6830.0	6634.8	6419.9	6180.3	5822.9	5469.9	5119.6	4758.9	4387.7
-67.5°	6255.5	6033.1	5850.2	5683.0	5512.3	5323.4	5040.5	4732.7	4435.7	4140.9	3827.5
-70°	5306.8	5124.6	4967.7	4828.2	4683.0	4529.8	4311.8	4060.3	3803.2	3552.0	3290.1
-72.5°	4445.2	4296.6	4162.2	4049.6	3924.6	3798.1	3631.9	3425.3	3212.2	2993.0	2774.0
-75°	3646.0	3525.6	3412.5	3324.5	3228.6	3124.9	2997.6	2829.4	2659.1	2487.2	2312.1
-77.5°	2903.5	2810.9	2721.2	2656.4	2584.9	2506.9	2409.4	2276.0	2150.8	2022.9	1892.3
-80°	2239.0	2171.1	2104.0	2062.8	2018.1	1970.2	1911.2	1809.1	1704.7	1603.4	1506.7
-82.5°	1672.3	1625.7	1579.0	1557.5	1532.4	1503.9	1468.0	1394.0	1318.9	1242.8	1166.3
-85°	1233.8	1201.7	1169.2	1156.5	1142.1	1125.9	1106.6	1058.1	1008.7	958.5	907.7
-87.5°	945.3	921.3	897.3	888.0	878.4	868.5	858.0	825.4	792.8	760.0	727.3
-90°	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0





REPORT NUMBER: P731617 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	605.6	576.7	547.7	518.8	489.4	460.0	430.5	401.1	367.7	334.3	300.8
87.5°	21.9	23.2	24.4	25.4	25.0	24.4	23.9	23.3	24.2	24.9	25.2
85°	46.4	43.7	41.6	40.1	37.8	34.9	33.8	32.6	34.0	34.8	35.0
82.5°	84.1	76.7	69.8	64.3	62.6	59.9	56.2	51.6	49.0	45.6	44.9
80°	112.7	103.2	94.1	86.8	85.8	85.1	81.2	76.2	72.2	67.2	61.2
77.5°	143.0	129.8	116.7	107.2	104.3	101.7	99.4	98.6	95.5	88.8	80.9
75°	174.6	159.2	143.9	133.3	127.4	117.9	113.8	114.3	117.6	110.8	100.5
72.5°	207.1	190.9	172.8	162.5	159.3	150.9	137.1	131.9	140.5	137.5	122.7
70°	236.3	223.0	205.5	201.0	196.9	185.8	173.0	169.4	165.6	165.5	152.4
67.5°	262.9	251.1	235.8	242.1	241.5	231.4	211.8	213.6	212.3	195.3	183.0
65°	271.3	272.1	268.7	285.6	289.3	280.3	261.6	264.5	260.9	244.1	214.7
62.5°	279.8	287.5	300.8	331.8	341.2	334.1	317.4	328.2	314.8	294.5	258.6
60°	289.4	303.8	340.5	379.5	396.5	392.0	388.3	395.9	382.8	346.6	308.2
57.5°	321.1	327.5	393.1	438.0	457.1	455.0	467.8	475.1	454.0	412.3	359.6
55°	373.2	398.1	471.4	512.6	529.9	524.4	559.5	563.6	531.4	483.2	414.6
52.5°	475.4	532.5	595.8	618.0	620.7	621.8	669.5	658.8	623.4	556.4	483.9
50°	704.8	754.9	788.4	775.3	733.7	769.4	793.1	778.4	720.2	636.4	556.3
47.5°	1188.7	1167.9	1081.7	987.7	912.4	943.3	957.3	910.5	822.0	729.8	630.3
45°	1934.0	1761.8	1529.9	1328.5	1168.7	1186.3	1150.7	1053.3	953.4	830.9	705.7
42.5°	2744.4	2484.7	2189.7	1714.5	1563.5	1469.0	1365.3	1245.3	1092.7	935.2	791.0
40°	3696.0	3248.9	2907.4	2395.1	1984.4	1778.0	1641.6	1458.8	1238.6	1048.8	883.9
37.5°	4595.5	4048.0	3620.1	3037.2	2448.5	2169.0	1941.1	1687.4	1394.7	1175.7	978.0
35°	5426.7	4824.2	4228.3	3616.5	3001.4	2561.2	2257.7	1942.3	1576.6	1301.5	1073.0
32.5°	6239.9	5539.8	4847.5	4162.8	3509.6	2954.0	2602.3	2166.9	1751.0	1425.9	1168.8
30°	7076.1	6259.2	5464.1	4691.3	3982.9	3391.6	2913.2	2377.4	1917.8	1548.5	1266.8
27.5°	7915.6	6969.1	6082.4	5235.7	4452.7	3792.3	3150.7	2573.6	2076.6	1676.6	1368.9
25°	8776.3	7717.5	6720.5	5779.9	4903.2	4100.7	3378.6	2756.3	2238.6	1811.7	1468.3
22.5°	9651.1	8476.4	7341.6	6310.2	5277.3	4411.3	3617.3	2948.4	2395.0	1939.4	1564.7
20°	10474.5	9224.0	7922.8	6735.9	5646.7	4732.8	3871.3	3129.5	2539.1	2059.6	1657.7
17.5°	11268.3	9896.5	8439.1	7152.7	6004.6	5028.4	4118.9	3299.1	2671.0	2172.2	1746.8
15°	12090.1	10485.6	8938.5	7535.9	6331.1	5297.7	4357.4	3456.4	2790.8	2276.9	1821.8
12.5°	12825.6	11058.1	9404.8	7883.8	6625.4	5540.8	4584.2	3600.7	2898.7	2369.2	1880.3
10°	13480.2	11604.0	9832.5	8194.6	6886.9	5757.9	4796.2	3747.7	3025.5	2452.1	1934.6
7.5°	14053.1	12112.7	10215.9	8466.7	7117.5	5938.1	4956.9	3915.2	3151.0	2528.9	1984.2
5°	14524.4	12533.7	10584.2	8780.8	7330.8	6084.6	5079.9	4068.4	3269.4	2598.7	2028.2
2.5°	14831.8	12820.4	10914.1	9072.6	7513.5	6208.3	5173.4	4206.3	3378.5	2660.6	2066.1
0°	15058.7	13031.5	11181.8	9322.2	7662.0	6307.2	5241.7	4327.9	3475.9	2713.6	2097.1
-2.5°	15351.1	13238.1	11348.8	9520.0	7869.7	6482.6	5357.6	4404.8	3544.2	2779.8	2148.6
-5°	15552.5	13373.3	11457.7	9668.7	8037.6	6626.9	5450.4	4464.1	3598.9	2835.7	2192.2
-7.5°	15693.3	13482.6	11530.3	9767.4	8163.7	6736.1	5517.6	4505.5	3640.2	2880.8	2227.3
-10°	15747.4	13541.5	11569.5	9796.7	8203.4	6787.7	5557.3	4529.1	3668.2	2914.8	2253.5
-12.5°	15704.6	13513.4	11539.4	9772.8	8191.2	6786.5	5572.3	4547.6	3683.9	2937.1	2270.6
-15°	15564.0	13395.0	11437.8	9695.2	8134.1	6751.8	5562.4	4552.0	3690.4	2944.8	2278.0
-17.5°	15313.5	13183.8	11263.1	9563.5	8031.7	6683.2	5527.5	4535.1	3680.7	2936.3	2272.8
-20°	14959.6	12906.4	11024.5	9377.5	7883.5	6580.8	5467.8	4496.4	3654.5	2914.8	2256.0



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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°	14537.1	12591.2	10795.7	9168.0	7710.4	6444.7	5383.2	4435.5	3611.3	2880.0	2230.3
-25°	14042.3	12221.9	10506.4	8939.8	7529.3	6324.6	5286.1	4352.2	3551.0	2831.8	2195.5
-27.5°	13552.0	11811.4	10151.4	8666.3	7336.3	6178.5	5175.3	4270.4	3478.1	2769.9	2151.8
-30°	13038.3	11364.7	9791.9	8366.8	7105.2	6012.6	5038.3	4169.3	3397.6	2704.8	2099.3
-32.5°	12438.8	10847.6	9400.5	8076.1	6874.6	5812.2	4875.9	4047.9	3300.7	2635.2	2049.0
-35°	11780.5	10327.3	8971.1	7745.0	6617.6	5608.7	4702.1	3906.4	3187.4	2555.5	1994.7
-37.5°	11080.8	9773.7	8568.9	7394.4	6317.5	5376.0	4527.2	3759.5	3058.0	2465.7	1932.9
-40°	10429.1	9204.4	8086.5	7023.0	6018.9	5114.6	4330.4	3604.9	2936.7	2366.0	1863.7
-42.5°	9732.9	8634.0	7593.8	6598.5	5702.6	4873.5	4116.0	3435.6	2816.5	2271.4	1787.4
-45°	9065.9	8040.2	7078.2	6198.6	5365.8	4610.1	3912.6	3256.5	2681.9	2175.7	1709.4
-47.5°	8371.5	7449.2	6578.5	5770.1	5048.4	4336.5	3694.0	3087.7	2533.3	2071.9	1631.3
-50°	7699.9	6863.3	6081.9	5363.9	4693.1	4079.8	3466.3	2902.0	2400.0	1955.8	1545.5
-52.5°	7022.8	6293.8	5599.9	4950.6	4363.4	3807.8	3237.9	2703.9	2255.0	1838.4	1452.3
-55°	6362.9	5745.8	5124.0	4554.6	4024.2	3520.1	2991.4	2525.6	2099.0	1715.8	1353.9
-57.5°	5747.1	5199.1	4669.9	4160.3	3675.7	3209.0	2758.2	2334.8	1944.3	1585.2	1266.4
-60°	5139.4	4685.2	4216.5	3760.4	3317.3	2909.8	2528.2	2138.4	1783.7	1451.8	1170.6
-62.5°	4580.8	4170.8	3767.0	3351.9	2976.0	2627.5	2289.8	1944.2	1614.5	1330.8	1068.5
-65°	4036.3	3675.9	3311.0	2977.3	2651.5	2342.6	2054.5	1740.7	1460.5	1203.9	969.0
-67.5°	3504.6	3204.9	2907.0	2608.5	2337.1	2072.6	1808.7	1552.4	1305.7	1071.5	883.4
-70°	3023.2	2757.0	2512.6	2275.2	2035.6	1801.5	1589.1	1367.1	1145.0	965.3	794.6
-72.5°	2564.6	2356.7	2151.0	1944.5	1752.7	1561.4	1370.9	1184.5	1017.0	856.3	702.8
-75°	2134.1	1973.2	1815.9	1654.7	1485.5	1319.2	1176.3	1033.9	886.1	744.1	625.4
-77.5°	1759.6	1627.2	1495.3	1372.7	1244.3	1119.6	999.0	879.5	759.8	653.2	552.0
-80°	1410.8	1314.7	1218.7	1121.3	1017.2	916.9	832.3	747.0	652.7	562.6	476.7
-82.5°	1091.5	1026.1	962.9	898.1	827.7	757.9	688.9	620.0	543.5	470.1	413.6
-85°	858.1	807.8	756.9	705.1	651.0	597.4	557.8	517.7	470.2	423.2	376.6
-87.5°	695.2	662.9	630.3	597.5	563.3	529.0	494.5	459.8	419.3	379.0	339.0
-90°	12.5	13.0	13.5	14.0	14.0	14.0	14.0	14.0	14.5	15.0	15.5



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	267.4	221.5	175.6	129.7	83.8	48.9	14.0
87.5°	25.3	24.5	23.4	22.0	20.3	17.8	14.0
85°	34.6	33.1	30.9	28.1	24.7	20.6	14.0
82.5°	43.9	41.6	38.3	34.1	29.0	23.3	14.0
80°	54.3	50.1	45.8	40.1	33.4	26.1	14.0
77.5°	72.3	62.1	53.2	46.2	37.8	28.9	14.0
75°	90.6	80.5	62.4	52.1	42.2	31.6	14.0
72.5°	109.4	99.2	79.7	58.1	46.6	34.3	14.0
70°	130.3	118.1	97.1	65.7	51.1	37.0	14.0
67.5°	162.2	137.4	114.7	80.4	55.5	39.7	14.0
65°	194.9	162.7	132.3	95.1	60.1	42.4	14.0
62.5°	228.6	194.0	150.1	109.8	64.6	45.1	14.0
60°	263.3	225.8	168.0	124.4	69.2	47.7	14.0
57.5°	311.0	258.2	195.4	138.9	79.8	50.3	14.0
55°	361.2	291.0	223.3	153.4	90.4	52.9	14.0
52.5°	412.2	326.1	251.3	167.8	100.7	55.4	14.0
50°	464.2	370.9	279.3	182.1	110.9	57.9	14.0
47.5°	518.8	415.9	307.3	198.0	120.9	60.3	14.0
45°	584.1	461.1	335.4	219.2	130.7	62.7	14.0
42.5°	649.9	506.3	363.3	240.1	140.3	65.1	14.0
40°	716.0	551.6	395.0	260.7	149.6	67.3	14.0
37.5°	782.3	596.7	430.2	280.7	158.6	69.6	14.0
35°	848.6	647.2	464.8	300.1	167.3	71.7	14.0
32.5°	918.4	699.8	498.6	318.9	175.7	73.8	14.0
30°	996.1	751.6	531.7	336.8	183.8	75.8	14.0
27.5°	1072.8	802.3	561.9	354.0	191.6	77.7	14.0
25°	1148.3	851.7	590.4	370.3	198.9	79.6	14.0
22.5°	1222.1	897.3	617.4	385.7	205.9	81.3	14.0
20°	1294.0	935.3	642.7	400.2	212.5	82.9	14.0
17.5°	1350.3	970.3	666.5	413.7	218.6	84.5	14.0
15°	1394.2	1002.5	688.4	426.2	224.2	85.9	14.0
12.5°	1432.9	1031.6	708.5	437.6	229.4	87.2	14.0
10°	1466.6	1057.6	726.6	447.8	234.1	88.4	14.0
7.5°	1495.1	1080.5	742.7	457.0	238.3	89.5	14.0
5°	1518.6	1100.1	756.8	464.9	241.9	90.4	14.0
2.5°	1537.0	1116.4	768.6	471.5	244.9	91.2	14.0
0°	1550.4	1129.4	778.2	476.9	247.4	91.8	14.0
-2.5°	1587.7	1150.4	790.9	484.1	251.2	93.6	14.0
-5°	1619.5	1167.9	801.2	490.0	254.4	95.2	14.0
-7.5°	1645.5	1181.6	809.0	494.4	257.0	96.7	14.0
-10°	1665.0	1191.3	814.2	497.4	258.9	98.1	14.0
-12.5°	1677.7	1196.9	816.7	499.0	260.3	99.2	14.0
-15°	1683.1	1198.2	816.4	499.0	261.0	100.2	14.0
-17.5°	1680.8	1195.1	813.3	497.5	261.0	101.0	14.0
-20°	1671.6	1187.4	807.2	494.5	260.4	101.6	14.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1656.9	1175.2	798.3	489.8	259.2	102.1	14.0
-25°	1635.7	1163.1	786.4	483.7	257.3	102.3	14.0
-27.5°	1608.0	1148.2	771.5	475.9	254.7	102.4	14.0
-30°	1573.8	1128.3	754.1	466.5	251.5	102.3	14.0
-32.5°	1533.3	1103.3	738.2	455.6	247.7	102.0	14.0
-35°	1495.5	1073.3	719.2	443.0	243.2	101.5	14.0
-37.5°	1455.0	1041.2	696.9	429.0	238.1	100.8	14.0
-40°	1407.9	1010.2	671.6	413.3	232.4	100.0	14.0
-42.5°	1354.4	975.0	648.0	397.2	226.1	98.9	14.0
-45°	1294.5	935.6	626.8	381.2	219.2	97.7	14.0
-47.5°	1228.4	892.0	603.1	363.6	211.7	96.3	14.0
-50°	1168.3	844.5	576.9	351.2	203.6	94.7	14.0
-52.5°	1105.2	793.0	548.4	339.6	195.0	92.9	14.0
-55°	1037.1	750.7	517.5	326.7	185.8	91.0	14.0
-57.5°	964.3	707.7	484.4	312.7	176.2	88.9	14.0
-60°	889.4	661.7	449.9	297.4	166.1	86.6	14.0
-62.5°	828.2	613.0	426.0	281.0	160.8	84.2	14.0
-65°	763.5	561.6	400.4	263.6	155.2	81.6	14.0
-67.5°	695.6	516.1	373.3	245.1	149.3	78.8	14.0
-70°	624.7	476.8	344.6	225.7	143.0	76.0	14.0
-72.5°	568.3	435.7	314.6	213.6	136.5	73.0	14.0
-75°	512.2	392.8	283.4	202.9	129.6	69.8	14.0
-77.5°	454.0	348.3	264.4	191.7	122.5	66.6	14.0
-80°	394.0	317.8	247.7	180.1	115.2	63.2	14.0
-82.5°	360.7	294.7	230.4	168.0	107.6	59.8	14.0
-85°	330.3	270.8	212.6	155.6	99.9	56.2	14.0
-87.5°	299.1	246.4	194.3	142.8	91.9	52.6	14.0
-90°	16.0	16.0	16.0	16.0	16.0	15.0	14.0

(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

