

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: P731275 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 11/16/2023

Test Information

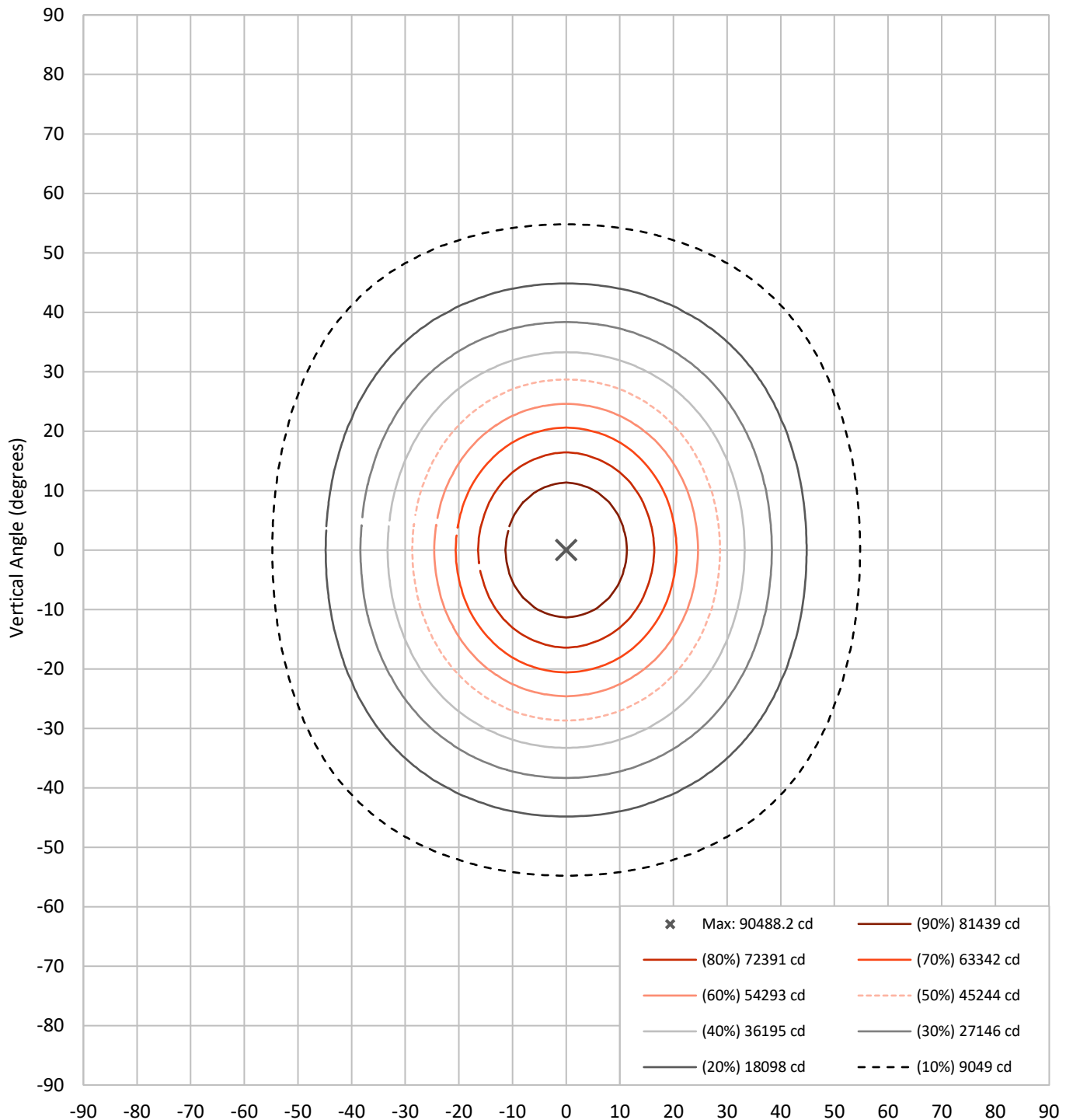
Test Method: LM-79-08
Report Number: P731275 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680N-40-70-7F-HEG
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 7F BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	102098.2 lumens	Max Intensity:	90488.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	146.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	57.4°H x 57.4°V	Field Angle (10%):	109.4°H x 109.4°V
Beam Lumens:	50283.3 lumens	Field Lumens:	92625.1 lumens
Beam Efficiency:	49.2%	Field Efficiency:	90.7%
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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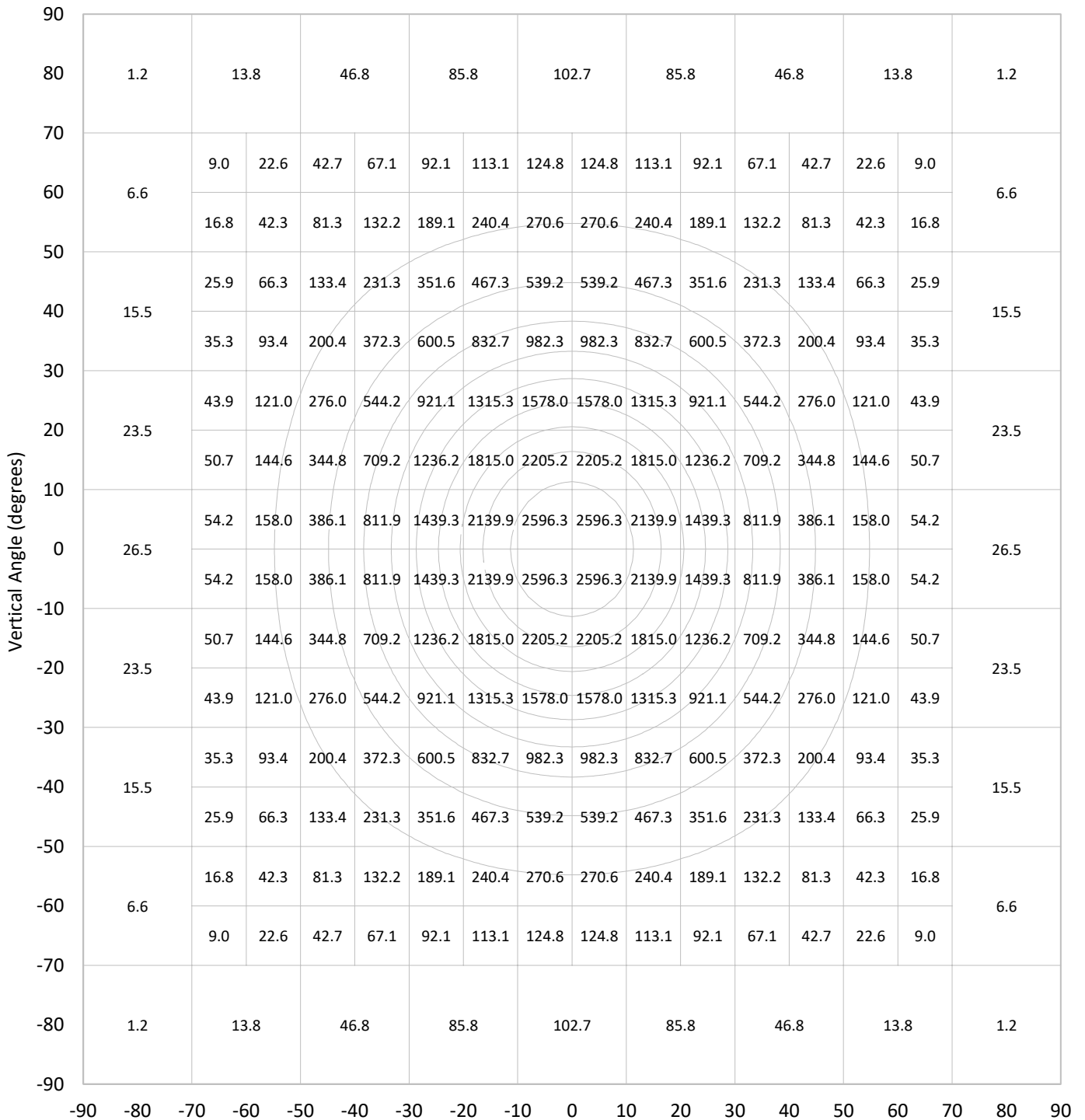
Iso-Candela Plot





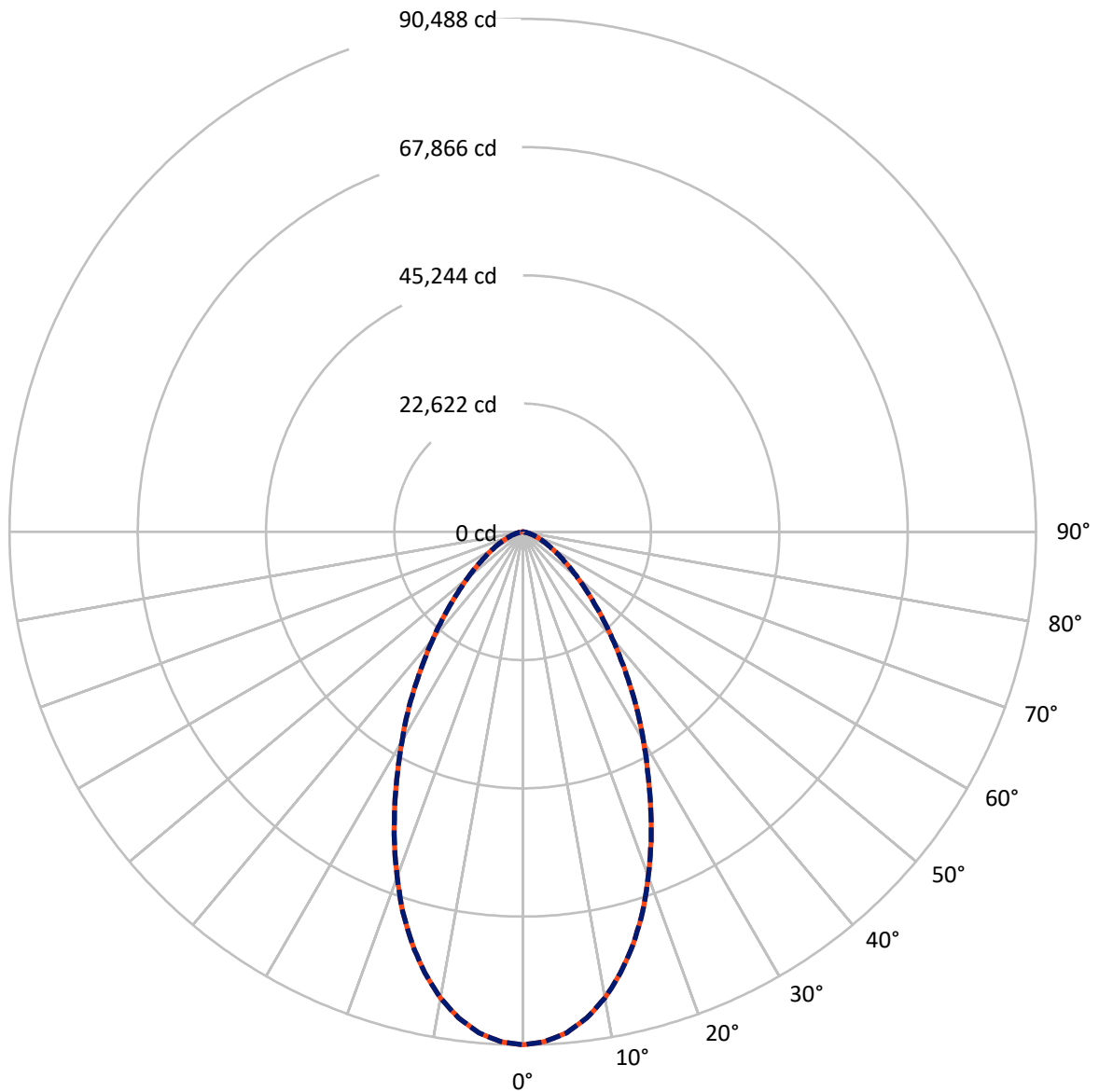
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Lumen Table



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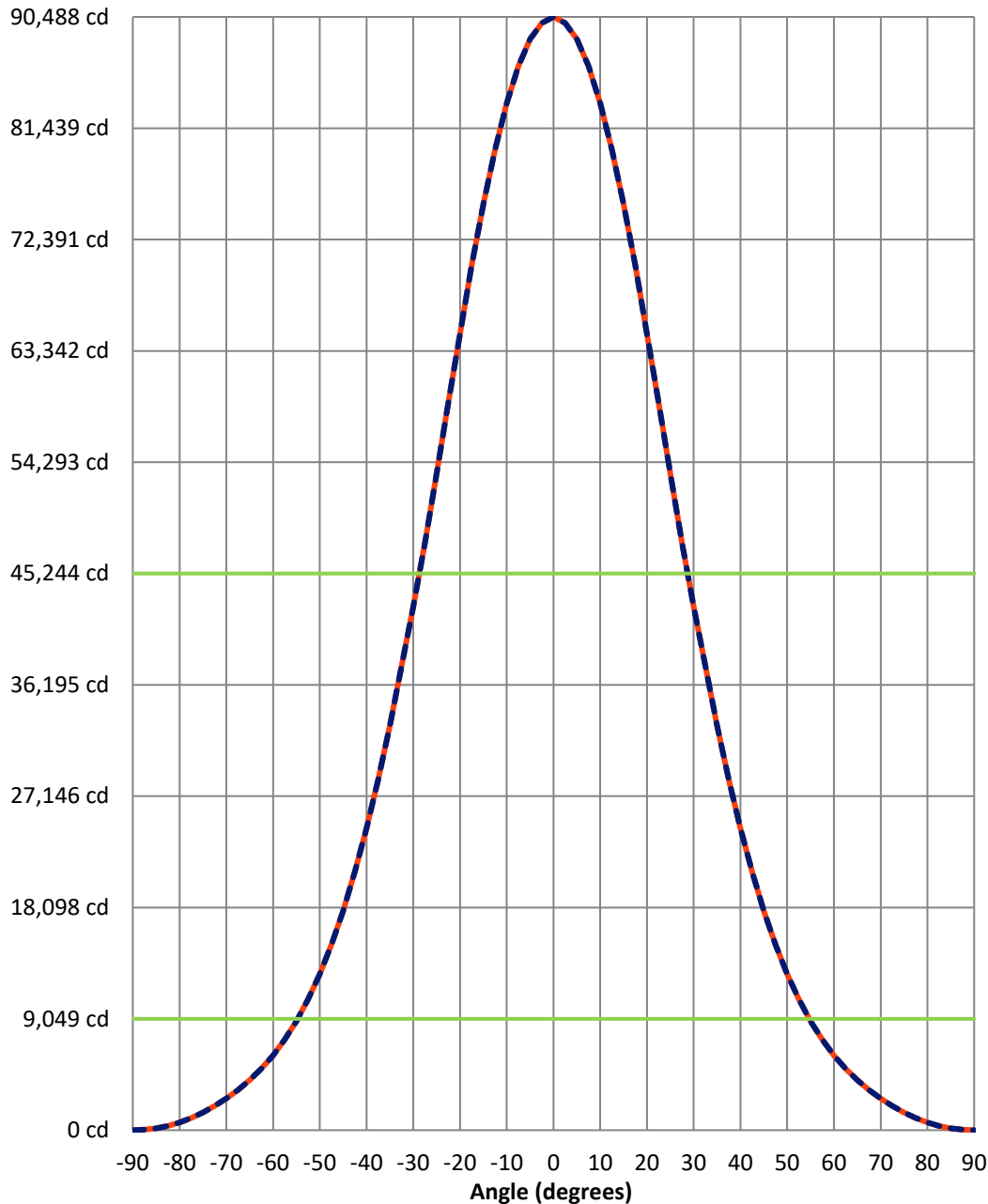
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 57.4°
V Angle: 57.4°
Lumens: 50283.3
Efficiency: 49.2%

Field:
H Angle: 109.4°
V Angle: 109.4°
Lumens: 92625.1
Efficiency: 90.7%

Spill:
Lumens: 9473.2
Efficiency: 9.3%

- Vertical Distribution through 0-Deg
- - Horizontal Distribution through 0-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	2.0	4.0	6.0	8.0	10.0	11.9	13.8	15.7	17.6	19.4
85°	0.0	4.0	8.0	12.0	16.0	19.9	23.8	27.6	31.4	35.2	38.8
82.5°	0.0	6.0	12.0	18.0	23.9	29.8	35.6	41.4	48.5	61.2	73.8
80°	0.0	8.0	16.0	23.9	31.8	39.6	49.2	66.7	84.0	101.0	117.7
77.5°	0.0	10.0	19.9	29.8	39.6	53.8	75.8	97.7	119.2	140.5	169.9
75°	0.0	11.9	23.8	35.6	49.2	75.8	102.3	128.4	156.9	203.3	248.9
72.5°	0.0	13.8	27.6	41.4	66.7	97.7	128.4	165.3	220.0	274.0	327.1
70°	0.0	15.7	31.4	48.5	84.0	119.2	156.9	220.0	282.4	344.7	434.2
67.5°	0.0	17.6	35.2	61.2	101.0	140.5	203.3	274.0	344.7	446.7	547.2
65°	0.0	19.4	38.8	73.8	117.7	169.9	248.9	327.1	434.2	547.2	667.8
62.5°	0.0	21.2	42.4	86.1	134.1	207.2	293.6	396.9	522.2	651.6	808.4
60°	0.0	23.0	46.0	98.1	150.1	243.7	337.4	472.4	608.3	776.0	946.2
57.5°	0.0	24.7	53.7	109.8	178.0	279.4	398.3	546.1	711.6	897.6	1101.4
55°	0.0	26.4	61.3	121.3	205.7	314.1	459.9	618.0	817.1	1022.1	1262.3
52.5°	0.0	28.0	68.7	132.3	232.7	350.4	519.7	705.6	919.8	1163.2	1419.1
50°	0.0	29.6	75.9	143.0	258.7	398.7	577.7	792.6	1025.7	1300.0	1598.2
47.5°	0.0	31.1	82.7	155.4	283.9	445.3	635.9	876.6	1143.2	1432.4	1774.8
45°	0.0	32.5	89.4	173.5	308.1	490.1	705.2	957.5	1256.5	1584.8	1945.1
42.5°	0.0	33.9	95.7	190.9	331.2	533.0	771.6	1045.2	1365.1	1731.8	2128.2
40°	0.0	35.2	101.7	207.4	358.7	574.0	835.0	1135.8	1475.7	1872.3	2306.6
37.5°	0.0	36.5	107.5	223.2	389.7	612.9	895.2	1222.0	1594.3	2011.4	2476.8
35°	0.0	37.7	112.9	238.0	419.1	656.7	952.2	1303.6	1706.5	2155.9	2646.6
32.5°	0.0	38.8	118.0	252.0	446.8	701.2	1009.4	1380.4	1812.3	2292.0	2819.7
30°	0.0	39.8	122.7	265.0	472.6	742.8	1070.7	1455.7	1911.3	2419.6	2981.9
27.5°	0.0	40.8	127.1	277.1	496.5	781.5	1127.6	1535.7	2008.1	2538.3	3132.9
25°	0.0	41.7	131.2	288.2	518.5	817.0	1180.0	1609.4	2104.6	2657.4	3273.3
22.5°	0.0	42.5	134.9	298.4	538.6	849.4	1227.8	1676.6	2192.7	2771.0	3421.7
20°	0.0	43.2	138.2	307.5	556.7	878.6	1270.8	1737.2	2272.1	2873.4	3555.7
17.5°	0.0	43.9	141.2	315.6	572.7	904.5	1309.0	1791.0	2342.6	2964.5	3674.9
15°	0.0	44.4	143.7	322.6	586.7	927.1	1342.3	1837.9	2404.2	3043.9	3778.9
12.5°	0.0	44.9	145.9	328.6	598.6	946.2	1370.6	1877.8	2456.5	3111.5	3867.5
10°	0.0	45.3	147.7	333.5	608.3	962.0	1393.9	1910.6	2499.5	3167.1	3940.3
7.5°	0.0	45.6	149.1	337.4	615.9	974.3	1412.0	1936.1	2533.1	3210.5	3997.2
5°	0.0	45.8	150.1	340.1	621.3	983.1	1425.0	1954.4	2557.1	3241.6	4038.0
2.5°	0.0	46.0	150.7	341.8	624.6	988.3	1432.8	1965.4	2571.6	3260.3	4062.5
0°	0.0	46.0	150.9	342.3	625.7	990.1	1435.4	1969.1	2576.4	3266.5	4070.7
-2.5°	0.0	46.0	150.7	341.8	624.6	988.3	1432.8	1965.4	2571.6	3260.3	4062.5
-5°	0.0	45.8	150.1	340.1	621.3	983.1	1425.0	1954.4	2557.1	3241.6	4038.0
-7.5°	0.0	45.6	149.1	337.4	615.9	974.3	1412.0	1936.1	2533.1	3210.5	3997.2
-10°	0.0	45.3	147.7	333.5	608.3	962.0	1393.9	1910.6	2499.5	3167.1	3940.3
-12.5°	0.0	44.9	145.9	328.6	598.6	946.2	1370.6	1877.8	2456.5	3111.5	3867.5
-15°	0.0	44.4	143.7	322.6	586.7	927.1	1342.3	1837.9	2404.2	3043.9	3778.9
-17.5°	0.0	43.9	141.2	315.6	572.7	904.5	1309.0	1791.0	2342.6	2964.5	3674.9
-20°	0.0	43.2	138.2	307.5	556.7	878.6	1270.8	1737.2	2272.1	2873.4	3555.7



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

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	42.5	134.9	298.4	538.6	849.4	1227.8	1676.6	2192.7	2771.0	3421.7
-25°	0.0	41.7	131.2	288.2	518.5	817.0	1180.0	1609.4	2104.6	2657.4	3273.3
-27.5°	0.0	40.8	127.1	277.1	496.5	781.5	1127.6	1535.7	2008.1	2538.3	3132.9
-30°	0.0	39.8	122.7	265.0	472.6	742.8	1070.7	1455.7	1911.3	2419.6	2981.9
-32.5°	0.0	38.8	118.0	252.0	446.8	701.2	1009.4	1380.4	1812.3	2292.0	2819.7
-35°	0.0	37.7	112.9	238.0	419.1	656.7	952.2	1303.6	1706.5	2155.9	2646.6
-37.5°	0.0	36.5	107.5	223.2	389.7	612.9	895.2	1222.0	1594.3	2011.4	2476.8
-40°	0.0	35.2	101.7	207.4	358.7	574.0	835.0	1135.8	1475.7	1872.3	2306.6
-42.5°	0.0	33.9	95.7	190.9	331.2	533.0	771.6	1045.2	1365.1	1731.8	2128.2
-45°	0.0	32.5	89.4	173.5	308.1	490.1	705.2	957.5	1256.5	1584.8	1945.1
-47.5°	0.0	31.1	82.7	155.4	283.9	445.3	635.9	876.6	1143.2	1432.4	1774.8
-50°	0.0	29.6	75.9	143.0	258.7	398.7	577.7	792.6	1025.7	1300.0	1598.2
-52.5°	0.0	28.0	68.7	132.3	232.7	350.4	519.7	705.6	919.8	1163.2	1419.1
-55°	0.0	26.4	61.3	121.3	205.7	314.1	459.9	618.0	817.1	1022.1	1262.3
-57.5°	0.0	24.7	53.7	109.8	178.0	279.4	398.3	546.1	711.6	897.6	1101.4
-60°	0.0	23.0	46.0	98.1	150.1	243.7	337.4	472.4	608.3	776.0	946.2
-62.5°	0.0	21.2	42.4	86.1	134.1	207.2	293.6	396.9	522.2	651.6	808.4
-65°	0.0	19.4	38.8	73.8	117.7	169.9	248.9	327.1	434.2	547.2	667.8
-67.5°	0.0	17.6	35.2	61.2	101.0	140.5	203.3	274.0	344.7	446.7	547.2
-70°	0.0	15.7	31.4	48.5	84.0	119.2	156.9	220.0	282.4	344.7	434.2
-72.5°	0.0	13.8	27.6	41.4	66.7	97.7	128.4	165.3	220.0	274.0	327.1
-75°	0.0	11.9	23.8	35.6	49.2	75.8	102.3	128.4	156.9	203.3	248.9
-77.5°	0.0	10.0	19.9	29.8	39.6	53.8	75.8	97.7	119.2	140.5	169.9
-80°	0.0	8.0	16.0	23.9	31.8	39.6	49.2	66.7	84.0	101.0	117.7
-82.5°	0.0	6.0	12.0	18.0	23.9	29.8	35.6	41.4	48.5	61.2	73.8
-85°	0.0	4.0	8.0	12.0	16.0	19.9	23.8	27.6	31.4	35.2	38.8
-87.5°	0.0	2.0	4.0	6.0	8.0	10.0	11.9	13.8	15.7	17.6	19.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.2	23.0	24.7	26.4	28.0	29.6	31.1	32.5	33.9	35.2	36.5
85°	42.4	46.0	53.7	61.3	68.7	75.9	82.7	89.4	95.7	101.7	107.5
82.5°	86.1	98.1	109.8	121.3	132.3	143.0	155.4	173.5	190.9	207.4	223.2
80°	134.1	150.1	178.0	205.7	232.7	258.7	283.9	308.1	331.2	358.7	389.7
77.5°	207.2	243.7	279.4	314.1	350.4	398.7	445.3	490.1	533.0	574.0	612.9
75°	293.6	337.4	398.3	459.9	519.7	577.7	635.9	705.2	771.6	835.0	895.2
72.5°	396.9	472.4	546.1	618.0	705.6	792.6	876.6	957.5	1045.2	1135.8	1222.0
70°	522.2	608.3	711.6	817.1	919.8	1025.7	1143.2	1256.5	1365.1	1475.7	1594.3
67.5°	651.6	776.0	897.6	1022.1	1163.2	1300.0	1432.4	1584.8	1731.8	1872.3	2011.4
65°	808.4	946.2	1101.4	1262.3	1419.1	1598.2	1774.8	1945.1	2128.2	2306.6	2476.8
62.5°	962.5	1141.2	1322.3	1511.8	1718.4	1919.1	2133.5	2347.3	2553.0	2773.8	2987.5
60°	1141.2	1342.3	1560.1	1791.0	2022.8	2272.1	2513.9	2771.0	3026.8	3273.3	3546.5
57.5°	1322.3	1560.1	1815.3	2078.3	2355.8	2632.8	2930.9	3219.4	3535.8	3847.2	4156.6
55°	1511.8	1791.0	2078.3	2383.9	2696.9	3027.6	3362.7	3725.7	4077.0	4466.5	4839.4
52.5°	1718.4	2022.8	2355.8	2696.9	3060.0	3438.8	3840.6	4255.3	4690.9	5127.0	5589.8
50°	1919.1	2272.1	2632.8	3027.6	3438.8	3879.1	4345.1	4826.8	5337.3	5854.8	6412.7
47.5°	2133.5	2513.9	2930.9	3362.7	3840.6	4345.1	4872.3	5443.2	6015.4	6675.6	7322.0
45°	2347.3	2771.0	3219.4	3725.7	4255.3	4826.8	5443.2	6069.2	6808.1	7545.1	8332.0
42.5°	2553.0	3026.8	3535.8	4077.0	4690.9	5337.3	6015.4	6808.1	7622.1	8488.3	9422.3
40°	2773.8	3273.3	3847.2	4466.5	5127.0	5854.8	6675.6	7545.1	8488.3	9518.5	10587.9
37.5°	2987.5	3546.5	4156.6	4839.4	5589.8	6412.7	7322.0	8332.0	9422.3	10587.9	11872.6
35°	3190.5	3806.3	4484.1	5224.2	6031.5	6990.2	8021.9	9135.2	10392.0	11758.0	13195.2
32.5°	3401.4	4051.9	4794.1	5611.8	6532.9	7563.2	8694.7	10003.8	11416.3	12921.1	14600.2
30°	3611.0	4315.6	5098.6	5976.8	7013.4	8155.1	9430.2	10854.1	12423.4	14180.9	16065.5
27.5°	3806.3	4564.3	5411.8	6371.6	7476.6	8710.1	10151.5	11740.2	13491.8	15414.1	17520.5
25°	3986.8	4794.1	5701.8	6755.9	7953.1	9303.2	10849.4	12567.0	14533.2	16691.4	19062.0
22.5°	4164.4	5005.3	5967.5	7108.5	8391.0	9875.8	11557.1	13441.7	15556.8	17885.9	20542.1
20°	4336.6	5224.2	6237.8	7436.5	8788.3	10396.2	12201.4	14257.9	16564.4	19148.7	21996.9
17.5°	4490.0	5419.3	6498.5	7762.1	9203.6	10893.6	12795.1	14991.0	17471.1	20287.9	23357.3
15°	4623.9	5589.8	6726.5	8047.3	9579.0	11360.8	13390.1	15716.3	18344.3	21325.8	24568.1
12.5°	4738.0	5735.2	6920.9	8290.7	9899.9	11760.6	13899.9	16349.7	19143.9	22285.4	25742.7
10°	4831.9	5854.8	7081.2	8491.4	10164.7	12090.8	14321.4	16874.3	19807.0	23082.8	26720.8
7.5°	4905.3	5948.3	7206.5	8648.5	10372.0	12349.6	14652.1	17286.2	20328.5	23710.9	27492.8
5°	4957.8	6015.4	7296.4	8761.2	10520.9	12535.6	14889.9	17582.7	20704.2	24163.9	28050.4
2.5°	4989.4	6055.7	7350.4	8829.1	10610.6	12647.6	15033.2	17761.5	20930.9	24437.5	28387.5
0°	5000.0	6069.2	7368.5	8851.7	10640.5	12685.0	15081.1	17821.2	21006.7	24529.0	28500.3
-2.5°	4989.4	6055.7	7350.4	8829.1	10610.6	12647.6	15033.2	17761.5	20930.9	24437.5	28387.5
-5°	4957.8	6015.4	7296.4	8761.2	10520.9	12535.6	14889.9	17582.7	20704.2	24163.9	28050.4
-7.5°	4905.3	5948.3	7206.5	8648.5	10372.0	12349.6	14652.1	17286.2	20328.5	23710.9	27492.8
-10°	4831.9	5854.8	7081.2	8491.4	10164.7	12090.8	14321.4	16874.3	19807.0	23082.8	26720.8
-12.5°	4738.0	5735.2	6920.9	8290.7	9899.9	11760.6	13899.9	16349.7	19143.9	22285.4	25742.7
-15°	4623.9	5589.8	6726.5	8047.3	9579.0	11360.8	13390.1	15716.3	18344.3	21325.8	24568.1
-17.5°	4490.0	5419.3	6498.5	7762.1	9203.6	10893.6	12795.1	14991.0	17471.1	20287.9	23357.3
-20°	4336.6	5224.2	6237.8	7436.5	8788.3	10396.2	12201.4	14257.9	16564.4	19148.7	21996.9



REPORT NUMBER: P731275 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-7F-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	4164.4	5005.3	5967.5	7108.5	8391.0	9875.8	11557.1	13441.7	15556.8	17885.9	20542.1
-25°	3986.8	4794.1	5701.8	6755.9	7953.1	9303.2	10849.4	12567.0	14533.2	16691.4	19062.0
-27.5°	3806.3	4564.3	5411.8	6371.6	7476.6	8710.1	10151.5	11740.2	13491.8	15414.1	17520.5
-30°	3611.0	4315.6	5098.6	5976.8	7013.4	8155.1	9430.2	10854.1	12423.4	14180.9	16065.5
-32.5°	3401.4	4051.9	4794.1	5611.8	6532.9	7563.2	8694.7	10003.8	11416.3	12921.1	14600.2
-35°	3190.5	3806.3	4484.1	5224.2	6031.5	6990.2	8021.9	9135.2	10392.0	11758.0	13195.2
-37.5°	2987.5	3546.5	4156.6	4839.4	5589.8	6412.7	7322.0	8332.0	9422.3	10587.9	11872.6
-40°	2773.8	3273.3	3847.2	4466.5	5127.0	5854.8	6675.6	7545.1	8488.3	9518.5	10587.9
-42.5°	2553.0	3026.8	3535.8	4077.0	4690.9	5337.3	6015.4	6808.1	7622.1	8488.3	9422.3
-45°	2347.3	2771.0	3219.4	3725.7	4255.3	4826.8	5443.2	6069.2	6808.1	7545.1	8332.0
-47.5°	2133.5	2513.9	2930.9	3362.7	3840.6	4345.1	4872.3	5443.2	6015.4	6675.6	7322.0
-50°	1919.1	2272.1	2632.8	3027.6	3438.8	3879.1	4345.1	4826.8	5337.3	5854.8	6412.7
-52.5°	1718.4	2022.8	2355.8	2696.9	3060.0	3438.8	3840.6	4255.3	4690.9	5127.0	5589.8
-55°	1511.8	1791.0	2078.3	2383.9	2696.9	3027.6	3362.7	3725.7	4077.0	4466.5	4839.4
-57.5°	1322.3	1560.1	1815.3	2078.3	2355.8	2632.8	2930.9	3219.4	3535.8	3847.2	4156.6
-60°	1141.2	1342.3	1560.1	1791.0	2022.8	2272.1	2513.9	2771.0	3026.8	3273.3	3546.5
-62.5°	962.5	1141.2	1322.3	1511.8	1718.4	1919.1	2133.5	2347.3	2553.0	2773.8	2987.5
-65°	808.4	946.2	1101.4	1262.3	1419.1	1598.2	1774.8	1945.1	2128.2	2306.6	2476.8
-67.5°	651.6	776.0	897.6	1022.1	1163.2	1300.0	1432.4	1584.8	1731.8	1872.3	2011.4
-70°	522.2	608.3	711.6	817.1	919.8	1025.7	1143.2	1256.5	1365.1	1475.7	1594.3
-72.5°	396.9	472.4	546.1	618.0	705.6	792.6	876.6	957.5	1045.2	1135.8	1222.0
-75°	293.6	337.4	398.3	459.9	519.7	577.7	635.9	705.2	771.6	835.0	895.2
-77.5°	207.2	243.7	279.4	314.1	350.4	398.7	445.3	490.1	533.0	574.0	612.9
-80°	134.1	150.1	178.0	205.7	232.7	258.7	283.9	308.1	331.2	358.7	389.7
-82.5°	86.1	98.1	109.8	121.3	132.3	143.0	155.4	173.5	190.9	207.4	223.2
-85°	42.4	46.0	53.7	61.3	68.7	75.9	82.7	89.4	95.7	101.7	107.5
-87.5°	21.2	23.0	24.7	26.4	28.0	29.6	31.1	32.5	33.9	35.2	36.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731275 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-7F-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	37.7	38.8	39.8	40.8	41.7	42.5	43.2	43.9	44.4	44.9	45.3
85°	112.9	118.0	122.7	127.1	131.2	134.9	138.2	141.2	143.7	145.9	147.7
82.5°	238.0	252.0	265.0	277.1	288.2	298.4	307.5	315.6	322.6	328.6	333.5
80°	419.1	446.8	472.6	496.5	518.5	538.6	556.7	572.7	586.7	598.6	608.3
77.5°	656.7	701.2	742.8	781.5	817.0	849.4	878.6	904.5	927.1	946.2	962.0
75°	952.2	1009.4	1070.7	1127.6	1180.0	1227.8	1270.8	1309.0	1342.3	1370.6	1393.9
72.5°	1303.6	1380.4	1455.7	1535.7	1609.4	1676.6	1737.2	1791.0	1837.9	1877.8	1910.6
70°	1706.5	1812.3	1911.3	2008.1	2104.6	2192.7	2272.1	2342.6	2404.2	2456.5	2499.5
67.5°	2155.9	2292.0	2419.6	2538.3	2657.4	2771.0	2873.4	2964.5	3043.9	3111.5	3167.1
65°	2646.6	2819.7	2981.9	3132.9	3273.3	3421.7	3555.7	3674.9	3778.9	3867.5	3940.3
62.5°	3190.5	3401.4	3611.0	3806.3	3986.8	4164.4	4336.6	4490.0	4623.9	4738.0	4831.9
60°	3806.3	4051.9	4315.6	4564.3	4794.1	5005.3	5224.2	5419.3	5589.8	5735.2	5854.8
57.5°	4484.1	4794.1	5098.6	5411.8	5701.8	5967.5	6237.8	6498.5	6726.5	6920.9	7081.2
55°	5224.2	5611.8	5976.8	6371.6	6755.9	7108.5	7436.5	7762.1	8047.3	8290.7	8491.4
52.5°	6031.5	6532.9	7013.4	7476.6	7953.1	8391.0	8788.3	9203.6	9579.0	9899.9	10164.7
50°	6990.2	7563.2	8155.1	8710.1	9303.2	9875.8	10396.2	10893.6	11360.8	11760.6	12090.8
47.5°	8021.9	8694.7	9430.2	10151.5	10849.4	11557.1	12201.4	12795.1	13390.1	13899.9	14321.4
45°	9135.2	10003.8	10854.1	11740.2	12567.0	13441.7	14257.9	14991.0	15716.3	16349.7	16874.3
42.5°	10392.0	11416.3	12423.4	13491.8	14533.2	15556.8	16564.4	17471.1	18344.3	19143.9	19807.0
40°	11758.0	12921.1	14180.9	15414.1	16691.4	17885.9	19148.7	20287.9	21325.8	22285.4	23082.8
37.5°	13195.2	14600.2	16065.5	17520.5	19062.0	20542.1	21996.9	23357.3	24568.1	25742.7	26720.8
35°	14740.9	16394.9	18059.0	19862.3	21621.8	23377.5	25055.7	26711.9	28185.1	29560.3	30735.8
32.5°	16394.9	18256.4	20267.4	22311.1	24319.3	26414.0	28377.1	30337.4	32098.8	33707.9	35124.3
30°	18059.0	20267.4	22543.0	24831.1	27245.5	29621.9	31950.7	34206.7	36316.6	38156.2	39698.2
27.5°	19862.3	22311.1	24831.1	27525.5	30261.1	32947.6	35712.0	38251.5	40532.2	42532.8	44352.0
25°	21621.8	24319.3	27245.5	30261.1	33316.8	36479.3	39441.0	42175.1	44815.6	47170.6	49295.0
22.5°	23377.5	26414.0	29621.9	32947.6	36479.3	39843.2	43052.0	46231.9	49255.0	52056.4	54478.9
20°	25055.7	28377.1	31950.7	35712.0	39441.0	43052.0	46712.2	50351.9	53792.4	56939.0	59640.9
17.5°	26711.9	30337.4	34206.7	38251.5	42175.1	46231.9	50351.9	54393.8	58214.5	61600.1	64534.2
15°	28185.1	32098.8	36316.6	40532.2	44815.6	49255.0	53792.4	58214.5	62272.1	65976.4	69265.7
12.5°	29560.3	33707.9	38156.2	42532.8	47170.6	52056.4	56939.0	61600.1	65976.4	70064.6	73362.1
10°	30735.8	35124.3	39698.2	44352.0	49295.0	54478.9	59640.9	64534.2	69265.7	73362.1	76957.9
7.5°	31665.5	36247.7	40925.3	45806.4	51040.5	56462.4	61791.1	66961.7	71827.2	76122.0	79730.0
5°	32338.4	37062.5	41817.8	46867.8	52319.8	57924.8	63388.6	68784.6	73688.7	78113.7	81803.4
2.5°	32745.6	37556.5	42359.9	47514.1	53101.4	58821.9	64374.4	69918.7	74860.8	79301.2	83043.9
0°	32882.0	37722.0	42541.7	47731.2	53364.3	59124.4	64707.8	70304.0	75261.8	79693.1	83471.2
-2.5°	32745.6	37556.5	42359.9	47514.1	53101.4	58821.9	64374.4	69918.7	74860.8	79301.2	83043.9
-5°	32338.4	37062.5	41817.8	46867.8	52319.8	57924.8	63388.6	68784.6	73688.7	78113.7	81803.4
-7.5°	31665.5	36247.7	40925.3	45806.4	51040.5	56462.4	61791.1	66961.7	71827.2	76122.0	79730.0
-10°	30735.8	35124.3	39698.2	44352.0	49295.0	54478.9	59640.9	64534.2	69265.7	73362.1	76957.9
-12.5°	29560.3	33707.9	38156.2	42532.8	47170.6	52056.4	56939.0	61600.1	65976.4	70064.6	73362.1
-15°	28185.1	32098.8	36316.6	40532.2	44815.6	49255.0	53792.4	58214.5	62272.1	65976.4	69265.7
-17.5°	26711.9	30337.4	34206.7	38251.5	42175.1	46231.9	50351.9	54393.8	58214.5	61600.1	64534.2
-20°	25055.7	28377.1	31950.7	35712.0	39441.0	43052.0	46712.2	50351.9	53792.4	56939.0	59640.9



REPORT NUMBER: P731275 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	23377.5	26414.0	29621.9	32947.6	36479.3	39843.2	43052.0	46231.9	49255.0	52056.4	54478.9
-25°	21621.8	24319.3	27245.5	30261.1	33316.8	36479.3	39441.0	42175.1	44815.6	47170.6	49295.0
-27.5°	19862.3	22311.1	24831.1	27525.5	30261.1	32947.6	35712.0	38251.5	40532.2	42532.8	44352.0
-30°	18059.0	20267.4	22543.0	24831.1	27245.5	29621.9	31950.7	34206.7	36316.6	38156.2	39698.2
-32.5°	16394.9	18256.4	20267.4	22311.1	24319.3	26414.0	28377.1	30337.4	32098.8	33707.9	35124.3
-35°	14740.9	16394.9	18059.0	19862.3	21621.8	23377.5	25055.7	26711.9	28185.1	29560.3	30735.8
-37.5°	13195.2	14600.2	16065.5	17520.5	19062.0	20542.1	21996.9	23357.3	24568.1	25742.7	26720.8
-40°	11758.0	12921.1	14180.9	15414.1	16691.4	17885.9	19148.7	20287.9	21325.8	22285.4	23082.8
-42.5°	10392.0	11416.3	12423.4	13491.8	14533.2	15556.8	16564.4	17471.1	18344.3	19143.9	19807.0
-45°	9135.2	10003.8	10854.1	11740.2	12567.0	13441.7	14257.9	14991.0	15716.3	16349.7	16874.3
-47.5°	8021.9	8694.7	9430.2	10151.5	10849.4	11557.1	12201.4	12795.1	13390.1	13899.9	14321.4
-50°	6990.2	7563.2	8155.1	8710.1	9303.2	9875.8	10396.2	10893.6	11360.8	11760.6	12090.8
-52.5°	6031.5	6532.9	7013.4	7476.6	7953.1	8391.0	8788.3	9203.6	9579.0	9899.9	10164.7
-55°	5224.2	5611.8	5976.8	6371.6	6755.9	7108.5	7436.5	7762.1	8047.3	8290.7	8491.4
-57.5°	4484.1	4794.1	5098.6	5411.8	5701.8	5967.5	6237.8	6498.5	6726.5	6920.9	7081.2
-60°	3806.3	4051.9	4315.6	4564.3	4794.1	5005.3	5224.2	5419.3	5589.8	5735.2	5854.8
-62.5°	3190.5	3401.4	3611.0	3806.3	3986.8	4164.4	4336.6	4490.0	4623.9	4738.0	4831.9
-65°	2646.6	2819.7	2981.9	3132.9	3273.3	3421.7	3555.7	3674.9	3778.9	3867.5	3940.3
-67.5°	2155.9	2292.0	2419.6	2538.3	2657.4	2771.0	2873.4	2964.5	3043.9	3111.5	3167.1
-70°	1706.5	1812.3	1911.3	2008.1	2104.6	2192.7	2272.1	2342.6	2404.2	2456.5	2499.5
-72.5°	1303.6	1380.4	1455.7	1535.7	1609.4	1676.6	1737.2	1791.0	1837.9	1877.8	1910.6
-75°	952.2	1009.4	1070.7	1127.6	1180.0	1227.8	1270.8	1309.0	1342.3	1370.6	1393.9
-77.5°	656.7	701.2	742.8	781.5	817.0	849.4	878.6	904.5	927.1	946.2	962.0
-80°	419.1	446.8	472.6	496.5	518.5	538.6	556.7	572.7	586.7	598.6	608.3
-82.5°	238.0	252.0	265.0	277.1	288.2	298.4	307.5	315.6	322.6	328.6	333.5
-85°	112.9	118.0	122.7	127.1	131.2	134.9	138.2	141.2	143.7	145.9	147.7
-87.5°	37.7	38.8	39.8	40.8	41.7	42.5	43.2	43.9	44.4	44.9	45.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731275 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-7F-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	45.6	45.8	46.0	46.0	46.0	45.8	45.6	45.3	44.9	44.4	43.9
85°	149.1	150.1	150.7	150.9	150.7	150.1	149.1	147.7	145.9	143.7	141.2
82.5°	337.4	340.1	341.8	342.3	341.8	340.1	337.4	333.5	328.6	322.6	315.6
80°	615.9	621.3	624.6	625.7	624.6	621.3	615.9	608.3	598.6	586.7	572.7
77.5°	974.3	983.1	988.3	990.1	988.3	983.1	974.3	962.0	946.2	927.1	904.5
75°	1412.0	1425.0	1432.8	1435.4	1432.8	1425.0	1412.0	1393.9	1370.6	1342.3	1309.0
72.5°	1936.1	1954.4	1965.4	1969.1	1965.4	1954.4	1936.1	1910.6	1877.8	1837.9	1791.0
70°	2533.1	2557.1	2571.6	2576.4	2571.6	2557.1	2533.1	2499.5	2456.5	2404.2	2342.6
67.5°	3210.5	3241.6	3260.3	3266.5	3260.3	3241.6	3210.5	3167.1	3111.5	3043.9	2964.5
65°	3997.2	4038.0	4062.5	4070.7	4062.5	4038.0	3997.2	3940.3	3867.5	3778.9	3674.9
62.5°	4905.3	4957.8	4989.4	5000.0	4989.4	4957.8	4905.3	4831.9	4738.0	4623.9	4490.0
60°	5948.3	6015.4	6055.7	6069.2	6055.7	6015.4	5948.3	5854.8	5735.2	5589.8	5419.3
57.5°	7206.5	7296.4	7350.4	7368.5	7350.4	7296.4	7206.5	7081.2	6920.9	6726.5	6498.5
55°	8648.5	8761.2	8829.1	8851.7	8829.1	8761.2	8648.5	8491.4	8290.7	8047.3	7762.1
52.5°	10372.0	10520.9	10610.6	10640.5	10610.6	10520.9	10372.0	10164.7	9899.9	9579.0	9203.6
50°	12349.6	12535.6	12647.6	12685.0	12647.6	12535.6	12349.6	12090.8	11760.6	11360.8	10893.6
47.5°	14652.1	14889.9	15033.2	15081.1	15033.2	14889.9	14652.1	14321.4	13899.9	13390.1	12795.1
45°	17286.2	17582.7	17761.5	17821.2	17761.5	17582.7	17286.2	16874.3	16349.7	15716.3	14991.0
42.5°	20328.5	20704.2	20930.9	21006.7	20930.9	20704.2	20328.5	19807.0	19143.9	18344.3	17471.1
40°	23710.9	24163.9	24437.5	24529.0	24437.5	24163.9	23710.9	23082.8	22285.4	21325.8	20287.9
37.5°	27492.8	28050.4	28387.5	28500.3	28387.5	28050.4	27492.8	26720.8	25742.7	24568.1	23357.3
35°	31665.5	32338.4	32745.6	32882.0	32745.6	32338.4	31665.5	30735.8	29560.3	28185.1	26711.9
32.5°	36247.7	37062.5	37556.5	37722.0	37556.5	37062.5	36247.7	35124.3	33707.9	32098.8	30337.4
30°	40925.3	41817.8	42359.9	42541.7	42359.9	41817.8	40925.3	39698.2	38156.2	36316.6	34206.7
27.5°	45806.4	46867.8	47514.1	47731.2	47514.1	46867.8	45806.4	44352.0	42532.8	40532.2	38251.5
25°	51040.5	52319.8	53101.4	53364.3	53101.4	52319.8	51040.5	49295.0	47170.6	44815.6	42175.1
22.5°	56462.4	57924.8	58821.9	59124.4	58821.9	57924.8	56462.4	54478.9	52056.4	49255.0	46231.9
20°	61791.1	63388.6	64374.4	64707.8	64374.4	63388.6	61791.1	59640.9	56939.0	53792.4	50351.9
17.5°	66961.7	68784.6	69918.7	70304.0	69918.7	68784.6	66961.7	64534.2	61600.1	58214.5	54393.8
15°	71827.2	73688.7	74860.8	75261.8	74860.8	73688.7	71827.2	69265.7	65976.4	62272.1	58214.5
12.5°	76122.0	78113.7	79301.2	79693.1	79301.2	78113.7	76122.0	73362.1	70064.6	65976.4	61600.1
10°	79730.0	81803.4	83043.9	83471.2	83043.9	81803.4	79730.0	76957.9	73362.1	69265.7	64534.2
7.5°	82641.9	84753.6	86065.9	86488.4	86065.9	84753.6	82641.9	79730.0	76122.0	71827.2	66961.7
5°	84753.6	86942.2	88212.7	88682.9	88212.7	86942.2	84753.6	81803.4	78113.7	73688.7	68784.6
2.5°	86065.9	88212.7	89535.7	89984.9	89535.7	88212.7	86065.9	83043.9	79301.2	74860.8	69918.7
0°	86488.4	88682.9	89984.9	90488.2	89984.9	88682.9	86488.4	83471.2	79693.1	75261.8	70304.0
-2.5°	86065.9	88212.7	89535.7	89984.9	89535.7	88212.7	86065.9	83043.9	79301.2	74860.8	69918.7
-5°	84753.6	86942.2	88212.7	88682.9	88212.7	86942.2	84753.6	81803.4	78113.7	73688.7	68784.6
-7.5°	82641.9	84753.6	86065.9	86488.4	86065.9	84753.6	82641.9	79730.0	76122.0	71827.2	66961.7
-10°	79730.0	81803.4	83043.9	83471.2	83043.9	81803.4	79730.0	76957.9	73362.1	69265.7	64534.2
-12.5°	76122.0	78113.7	79301.2	79693.1	79301.2	78113.7	76122.0	73362.1	70064.6	65976.4	61600.1
-15°	71827.2	73688.7	74860.8	75261.8	74860.8	73688.7	71827.2	69265.7	65976.4	62272.1	58214.5
-17.5°	66961.7	68784.6	69918.7	70304.0	69918.7	68784.6	66961.7	64534.2	61600.1	58214.5	54393.8
-20°	61791.1	63388.6	64374.4	64707.8	64374.4	63388.6	61791.1	59640.9	56939.0	53792.4	50351.9



REPORT NUMBER: P731275 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-7F-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	56462.4	57924.8	58821.9	59124.4	58821.9	57924.8	56462.4	54478.9	52056.4	49255.0	46231.9
-25°	51040.5	52319.8	53101.4	53364.3	53101.4	52319.8	51040.5	49295.0	47170.6	44815.6	42175.1
-27.5°	45806.4	46867.8	47514.1	47731.2	47514.1	46867.8	45806.4	44352.0	42532.8	40532.2	38251.5
-30°	40925.3	41817.8	42359.9	42541.7	42359.9	41817.8	40925.3	39698.2	38156.2	36316.6	34206.7
-32.5°	36247.7	37062.5	37556.5	37722.0	37556.5	37062.5	36247.7	35124.3	33707.9	32098.8	30337.4
-35°	31665.5	32338.4	32745.6	32882.0	32745.6	32338.4	31665.5	30735.8	29560.3	28185.1	26711.9
-37.5°	27492.8	28050.4	28387.5	28500.3	28387.5	28050.4	27492.8	26720.8	25742.7	24568.1	23357.3
-40°	23710.9	24163.9	24437.5	24529.0	24437.5	24163.9	23710.9	23082.8	22285.4	21325.8	20287.9
-42.5°	20328.5	20704.2	20930.9	21006.7	20930.9	20704.2	20328.5	19807.0	19143.9	18344.3	17471.1
-45°	17286.2	17582.7	17761.5	17821.2	17761.5	17582.7	17286.2	16874.3	16349.7	15716.3	14991.0
-47.5°	14652.1	14889.9	15033.2	15081.1	15033.2	14889.9	14652.1	14321.4	13899.9	13390.1	12795.1
-50°	12349.6	12535.6	12647.6	12685.0	12647.6	12535.6	12349.6	12090.8	11760.6	11360.8	10893.6
-52.5°	10372.0	10520.9	10610.6	10640.5	10610.6	10520.9	10372.0	10164.7	9899.9	9579.0	9203.6
-55°	8648.5	8761.2	8829.1	8851.7	8829.1	8761.2	8648.5	8491.4	8290.7	8047.3	7762.1
-57.5°	7206.5	7296.4	7350.4	7368.5	7350.4	7296.4	7206.5	7081.2	6920.9	6726.5	6498.5
-60°	5948.3	6015.4	6055.7	6069.2	6055.7	6015.4	5948.3	5854.8	5735.2	5589.8	5419.3
-62.5°	4905.3	4957.8	4989.4	5000.0	4989.4	4957.8	4905.3	4831.9	4738.0	4623.9	4490.0
-65°	3997.2	4038.0	4062.5	4070.7	4062.5	4038.0	3997.2	3940.3	3867.5	3778.9	3674.9
-67.5°	3210.5	3241.6	3260.3	3266.5	3260.3	3241.6	3210.5	3167.1	3111.5	3043.9	2964.5
-70°	2533.1	2557.1	2571.6	2576.4	2571.6	2557.1	2533.1	2499.5	2456.5	2404.2	2342.6
-72.5°	1936.1	1954.4	1965.4	1969.1	1965.4	1954.4	1936.1	1910.6	1877.8	1837.9	1791.0
-75°	1412.0	1425.0	1432.8	1435.4	1432.8	1425.0	1412.0	1393.9	1370.6	1342.3	1309.0
-77.5°	974.3	983.1	988.3	990.1	988.3	983.1	974.3	962.0	946.2	927.1	904.5
-80°	615.9	621.3	624.6	625.7	624.6	621.3	615.9	608.3	598.6	586.7	572.7
-82.5°	337.4	340.1	341.8	342.3	341.8	340.1	337.4	333.5	328.6	322.6	315.6
-85°	149.1	150.1	150.7	150.9	150.7	150.1	149.1	147.7	145.9	143.7	141.2
-87.5°	45.6	45.8	46.0	46.0	46.0	45.8	45.6	45.3	44.9	44.4	43.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731275 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-7F-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	43.2	42.5	41.7	40.8	39.8	38.8	37.7	36.5	35.2	33.9	32.5
85°	138.2	134.9	131.2	127.1	122.7	118.0	112.9	107.5	101.7	95.7	89.4
82.5°	307.5	298.4	288.2	277.1	265.0	252.0	238.0	223.2	207.4	190.9	173.5
80°	556.7	538.6	518.5	496.5	472.6	446.8	419.1	389.7	358.7	331.2	308.1
77.5°	878.6	849.4	817.0	781.5	742.8	701.2	656.7	612.9	574.0	533.0	490.1
75°	1270.8	1227.8	1180.0	1127.6	1070.7	1009.4	952.2	895.2	835.0	771.6	705.2
72.5°	1737.2	1676.6	1609.4	1535.7	1455.7	1380.4	1303.6	1222.0	1135.8	1045.2	957.5
70°	2272.1	2192.7	2104.6	2008.1	1911.3	1812.3	1706.5	1594.3	1475.7	1365.1	1256.5
67.5°	2873.4	2771.0	2657.4	2538.3	2419.6	2292.0	2155.9	2011.4	1872.3	1731.8	1584.8
65°	3555.7	3421.7	3273.3	3132.9	2981.9	2819.7	2646.6	2476.8	2306.6	2128.2	1945.1
62.5°	4336.6	4164.4	3986.8	3806.3	3611.0	3401.4	3190.5	2987.5	2773.8	2553.0	2347.3
60°	5224.2	5005.3	4794.1	4564.3	4315.6	4051.9	3806.3	3546.5	3273.3	3026.8	2771.0
57.5°	6237.8	5967.5	5701.8	5411.8	5098.6	4794.1	4484.1	4156.6	3847.2	3535.8	3219.4
55°	7436.5	7108.5	6755.9	6371.6	5976.8	5611.8	5224.2	4839.4	4466.5	4077.0	3725.7
52.5°	8788.3	8391.0	7953.1	7476.6	7013.4	6532.9	6031.5	5589.8	5127.0	4690.9	4255.3
50°	10396.2	9875.8	9303.2	8710.1	8155.1	7563.2	6990.2	6412.7	5854.8	5337.3	4826.8
47.5°	12201.4	11557.1	10849.4	10151.5	9430.2	8694.7	8021.9	7322.0	6675.6	6015.4	5443.2
45°	14257.9	13441.7	12567.0	11740.2	10854.1	10003.8	9135.2	8332.0	7545.1	6808.1	6069.2
42.5°	16564.4	15556.8	14533.2	13491.8	12423.4	11416.3	10392.0	9422.3	8488.3	7622.1	6808.1
40°	19148.7	17885.9	16691.4	15414.1	14180.9	12921.1	11758.0	10587.9	9518.5	8488.3	7545.1
37.5°	21996.9	20542.1	19062.0	17520.5	16065.5	14600.2	13195.2	11872.6	10587.9	9422.3	8332.0
35°	25055.7	23377.5	21621.8	19862.3	18059.0	16394.9	14740.9	13195.2	11758.0	10392.0	9135.2
32.5°	28377.1	26414.0	24319.3	22311.1	20267.4	18256.4	16394.9	14600.2	12921.1	11416.3	10003.8
30°	31950.7	29621.9	27245.5	24831.1	22543.0	20267.4	18059.0	16065.5	14180.9	12423.4	10854.1
27.5°	35712.0	32947.6	30261.1	27525.5	24831.1	22311.1	19862.3	17520.5	15414.1	13491.8	11740.2
25°	39441.0	36479.3	33316.8	30261.1	27245.5	24319.3	21621.8	19062.0	16691.4	14533.2	12567.0
22.5°	43052.0	39843.2	36479.3	32947.6	29621.9	26414.0	23377.5	20542.1	17885.9	15556.8	13441.7
20°	46712.2	43052.0	39441.0	35712.0	31950.7	28377.1	25055.7	21996.9	19148.7	16564.4	14257.9
17.5°	50351.9	46231.9	42175.1	38251.5	34206.7	30337.4	26711.9	23357.3	20287.9	17471.1	14991.0
15°	53792.4	49255.0	44815.6	40532.2	36316.6	32098.8	28185.1	24568.1	21325.8	18344.3	15716.3
12.5°	56939.0	52056.4	47170.6	42532.8	38156.2	33707.9	29560.3	25742.7	22285.4	19143.9	16349.7
10°	59640.9	54478.9	49295.0	44352.0	39698.2	35124.3	30735.8	26720.8	23082.8	19807.0	16874.3
7.5°	61791.1	56462.4	51040.5	45806.4	40925.3	36247.7	31665.5	27492.8	23710.9	20328.5	17286.2
5°	63388.6	57924.8	52319.8	46867.8	41817.8	37062.5	32338.4	28050.4	24163.9	20704.2	17582.7
2.5°	64374.4	58821.9	53101.4	47514.1	42359.9	37556.5	32745.6	28387.5	24437.5	20930.9	17761.5
0°	64707.8	59124.4	53364.3	47731.2	42541.7	37722.0	32882.0	28500.3	24529.0	21006.7	17821.2
-2.5°	64374.4	58821.9	53101.4	47514.1	42359.9	37556.5	32745.6	28387.5	24437.5	20930.9	17761.5
-5°	63388.6	57924.8	52319.8	46867.8	41817.8	37062.5	32338.4	28050.4	24163.9	20704.2	17582.7
-7.5°	61791.1	56462.4	51040.5	45806.4	40925.3	36247.7	31665.5	27492.8	23710.9	20328.5	17286.2
-10°	59640.9	54478.9	49295.0	44352.0	39698.2	35124.3	30735.8	26720.8	23082.8	19807.0	16874.3
-12.5°	56939.0	52056.4	47170.6	42532.8	38156.2	33707.9	29560.3	25742.7	22285.4	19143.9	16349.7
-15°	53792.4	49255.0	44815.6	40532.2	36316.6	32098.8	28185.1	24568.1	21325.8	18344.3	15716.3
-17.5°	50351.9	46231.9	42175.1	38251.5	34206.7	30337.4	26711.9	23357.3	20287.9	17471.1	14991.0
-20°	46712.2	43052.0	39441.0	35712.0	31950.7	28377.1	25055.7	21996.9	19148.7	16564.4	14257.9



REPORT NUMBER: P731275 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-7F-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	43052.0	39843.2	36479.3	32947.6	29621.9	26414.0	23377.5	20542.1	17885.9	15556.8	13441.7
-25°	39441.0	36479.3	33316.8	30261.1	27245.5	24319.3	21621.8	19062.0	16691.4	14533.2	12567.0
-27.5°	35712.0	32947.6	30261.1	27525.5	24831.1	22311.1	19862.3	17520.5	15414.1	13491.8	11740.2
-30°	31950.7	29621.9	27245.5	24831.1	22543.0	20267.4	18059.0	16065.5	14180.9	12423.4	10854.1
-32.5°	28377.1	26414.0	24319.3	22311.1	20267.4	18256.4	16394.9	14600.2	12921.1	11416.3	10003.8
-35°	25055.7	23377.5	21621.8	19862.3	18059.0	16394.9	14740.9	13195.2	11758.0	10392.0	9135.2
-37.5°	21996.9	20542.1	19062.0	17520.5	16065.5	14600.2	13195.2	11872.6	10587.9	9422.3	8332.0
-40°	19148.7	17885.9	16691.4	15414.1	14180.9	12921.1	11758.0	10587.9	9518.5	8488.3	7545.1
-42.5°	16564.4	15556.8	14533.2	13491.8	12423.4	11416.3	10392.0	9422.3	8488.3	7622.1	6808.1
-45°	14257.9	13441.7	12567.0	11740.2	10854.1	10003.8	9135.2	8332.0	7545.1	6808.1	6069.2
-47.5°	12201.4	11557.1	10849.4	10151.5	9430.2	8694.7	8021.9	7322.0	6675.6	6015.4	5443.2
-50°	10396.2	9875.8	9303.2	8710.1	8155.1	7563.2	6990.2	6412.7	5854.8	5337.3	4826.8
-52.5°	8788.3	8391.0	7953.1	7476.6	7013.4	6532.9	6031.5	5589.8	5127.0	4690.9	4255.3
-55°	7436.5	7108.5	6755.9	6371.6	5976.8	5611.8	5224.2	4839.4	4466.5	4077.0	3725.7
-57.5°	6237.8	5967.5	5701.8	5411.8	5098.6	4794.1	4484.1	4156.6	3847.2	3535.8	3219.4
-60°	5224.2	5005.3	4794.1	4564.3	4315.6	4051.9	3806.3	3546.5	3273.3	3026.8	2771.0
-62.5°	4336.6	4164.4	3986.8	3806.3	3611.0	3401.4	3190.5	2987.5	2773.8	2553.0	2347.3
-65°	3555.7	3421.7	3273.3	3132.9	2981.9	2819.7	2646.6	2476.8	2306.6	2128.2	1945.1
-67.5°	2873.4	2771.0	2657.4	2538.3	2419.6	2292.0	2155.9	2011.4	1872.3	1731.8	1584.8
-70°	2272.1	2192.7	2104.6	2008.1	1911.3	1812.3	1706.5	1594.3	1475.7	1365.1	1256.5
-72.5°	1737.2	1676.6	1609.4	1535.7	1455.7	1380.4	1303.6	1222.0	1135.8	1045.2	957.5
-75°	1270.8	1227.8	1180.0	1127.6	1070.7	1009.4	952.2	895.2	835.0	771.6	705.2
-77.5°	878.6	849.4	817.0	781.5	742.8	701.2	656.7	612.9	574.0	533.0	490.1
-80°	556.7	538.6	518.5	496.5	472.6	446.8	419.1	389.7	358.7	331.2	308.1
-82.5°	307.5	298.4	288.2	277.1	265.0	252.0	238.0	223.2	207.4	190.9	173.5
-85°	138.2	134.9	131.2	127.1	122.7	118.0	112.9	107.5	101.7	95.7	89.4
-87.5°	43.2	42.5	41.7	40.8	39.8	38.8	37.7	36.5	35.2	33.9	32.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731275 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-7F-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	31.1	29.6	28.0	26.4	24.7	23.0	21.2	19.4	17.6	15.7	13.8
85°	82.7	75.9	68.7	61.3	53.7	46.0	42.4	38.8	35.2	31.4	27.6
82.5°	155.4	143.0	132.3	121.3	109.8	98.1	86.1	73.8	61.2	48.5	41.4
80°	283.9	258.7	232.7	205.7	178.0	150.1	134.1	117.7	101.0	84.0	66.7
77.5°	445.3	398.7	350.4	314.1	279.4	243.7	207.2	169.9	140.5	119.2	97.7
75°	635.9	577.7	519.7	459.9	398.3	337.4	293.6	248.9	203.3	156.9	128.4
72.5°	876.6	792.6	705.6	618.0	546.1	472.4	396.9	327.1	274.0	220.0	165.3
70°	1143.2	1025.7	919.8	817.1	711.6	608.3	522.2	434.2	344.7	282.4	220.0
67.5°	1432.4	1300.0	1163.2	1022.1	897.6	776.0	651.6	547.2	446.7	344.7	274.0
65°	1774.8	1598.2	1419.1	1262.3	1101.4	946.2	808.4	667.8	547.2	434.2	327.1
62.5°	2133.5	1919.1	1718.4	1511.8	1322.3	1141.2	962.5	808.4	651.6	522.2	396.9
60°	2513.9	2272.1	2022.8	1791.0	1560.1	1342.3	1141.2	946.2	776.0	608.3	472.4
57.5°	2930.9	2632.8	2355.8	2078.3	1815.3	1560.1	1322.3	1101.4	897.6	711.6	546.1
55°	3362.7	3027.6	2696.9	2383.9	2078.3	1791.0	1511.8	1262.3	1022.1	817.1	618.0
52.5°	3840.6	3438.8	3060.0	2696.9	2355.8	2022.8	1718.4	1419.1	1163.2	919.8	705.6
50°	4345.1	3879.1	3438.8	3027.6	2632.8	2272.1	1919.1	1598.2	1300.0	1025.7	792.6
47.5°	4872.3	4345.1	3840.6	3362.7	2930.9	2513.9	2133.5	1774.8	1432.4	1143.2	876.6
45°	5443.2	4826.8	4255.3	3725.7	3219.4	2771.0	2347.3	1945.1	1584.8	1256.5	957.5
42.5°	6015.4	5337.3	4690.9	4077.0	3535.8	3026.8	2553.0	2128.2	1731.8	1365.1	1045.2
40°	6675.6	5854.8	5127.0	4466.5	3847.2	3273.3	2773.8	2306.6	1872.3	1475.7	1135.8
37.5°	7322.0	6412.7	5589.8	4839.4	4156.6	3546.5	2987.5	2476.8	2011.4	1594.3	1222.0
35°	8021.9	6990.2	6031.5	5224.2	4484.1	3806.3	3190.5	2646.6	2155.9	1706.5	1303.6
32.5°	8694.7	7563.2	6532.9	5611.8	4794.1	4051.9	3401.4	2819.7	2292.0	1812.3	1380.4
30°	9430.2	8155.1	7013.4	5976.8	5098.6	4315.6	3611.0	2981.9	2419.6	1911.3	1455.7
27.5°	10151.5	8710.1	7476.6	6371.6	5411.8	4564.3	3806.3	3132.9	2538.3	2008.1	1535.7
25°	10849.4	9303.2	7953.1	6755.9	5701.8	4794.1	3986.8	3273.3	2657.4	2104.6	1609.4
22.5°	11557.1	9875.8	8391.0	7108.5	5967.5	5005.3	4164.4	3421.7	2771.0	2192.7	1676.6
20°	12201.4	10396.2	8788.3	7436.5	6237.8	5224.2	4336.6	3555.7	2873.4	2272.1	1737.2
17.5°	12795.1	10893.6	9203.6	7762.1	6498.5	5419.3	4490.0	3674.9	2964.5	2342.6	1791.0
15°	13390.1	11360.8	9579.0	8047.3	6726.5	5589.8	4623.9	3778.9	3043.9	2404.2	1837.9
12.5°	13899.9	11760.6	9899.9	8290.7	6920.9	5735.2	4738.0	3867.5	3111.5	2456.5	1877.8
10°	14321.4	12090.8	10164.7	8491.4	7081.2	5854.8	4831.9	3940.3	3167.1	2499.5	1910.6
7.5°	14652.1	12349.6	10372.0	8648.5	7206.5	5948.3	4905.3	3997.2	3210.5	2533.1	1936.1
5°	14889.9	12535.6	10520.9	8761.2	7296.4	6015.4	4957.8	4038.0	3241.6	2557.1	1954.4
2.5°	15033.2	12647.6	10610.6	8829.1	7350.4	6055.7	4989.4	4062.5	3260.3	2571.6	1965.4
0°	15081.1	12685.0	10640.5	8851.7	7368.5	6069.2	5000.0	4070.7	3266.5	2576.4	1969.1
-2.5°	15033.2	12647.6	10610.6	8829.1	7350.4	6055.7	4989.4	4062.5	3260.3	2571.6	1965.4
-5°	14889.9	12535.6	10520.9	8761.2	7296.4	6015.4	4957.8	4038.0	3241.6	2557.1	1954.4
-7.5°	14652.1	12349.6	10372.0	8648.5	7206.5	5948.3	4905.3	3997.2	3210.5	2533.1	1936.1
-10°	14321.4	12090.8	10164.7	8491.4	7081.2	5854.8	4831.9	3940.3	3167.1	2499.5	1910.6
-12.5°	13899.9	11760.6	9899.9	8290.7	6920.9	5735.2	4738.0	3867.5	3111.5	2456.5	1877.8
-15°	13390.1	11360.8	9579.0	8047.3	6726.5	5589.8	4623.9	3778.9	3043.9	2404.2	1837.9
-17.5°	12795.1	10893.6	9203.6	7762.1	6498.5	5419.3	4490.0	3674.9	2964.5	2342.6	1791.0
-20°	12201.4	10396.2	8788.3	7436.5	6237.8	5224.2	4336.6	3555.7	2873.4	2272.1	1737.2



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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°	11557.1	9875.8	8391.0	7108.5	5967.5	5005.3	4164.4	3421.7	2771.0	2192.7	1676.6
-25°	10849.4	9303.2	7953.1	6755.9	5701.8	4794.1	3986.8	3273.3	2657.4	2104.6	1609.4
-27.5°	10151.5	8710.1	7476.6	6371.6	5411.8	4564.3	3806.3	3132.9	2538.3	2008.1	1535.7
-30°	9430.2	8155.1	7013.4	5976.8	5098.6	4315.6	3611.0	2981.9	2419.6	1911.3	1455.7
-32.5°	8694.7	7563.2	6532.9	5611.8	4794.1	4051.9	3401.4	2819.7	2292.0	1812.3	1380.4
-35°	8021.9	6990.2	6031.5	5224.2	4484.1	3806.3	3190.5	2646.6	2155.9	1706.5	1303.6
-37.5°	7322.0	6412.7	5589.8	4839.4	4156.6	3546.5	2987.5	2476.8	2011.4	1594.3	1222.0
-40°	6675.6	5854.8	5127.0	4466.5	3847.2	3273.3	2773.8	2306.6	1872.3	1475.7	1135.8
-42.5°	6015.4	5337.3	4690.9	4077.0	3535.8	3026.8	2553.0	2128.2	1731.8	1365.1	1045.2
-45°	5443.2	4826.8	4255.3	3725.7	3219.4	2771.0	2347.3	1945.1	1584.8	1256.5	957.5
-47.5°	4872.3	4345.1	3840.6	3362.7	2930.9	2513.9	2133.5	1774.8	1432.4	1143.2	876.6
-50°	4345.1	3879.1	3438.8	3027.6	2632.8	2272.1	1919.1	1598.2	1300.0	1025.7	792.6
-52.5°	3840.6	3438.8	3060.0	2696.9	2355.8	2022.8	1718.4	1419.1	1163.2	919.8	705.6
-55°	3362.7	3027.6	2696.9	2383.9	2078.3	1791.0	1511.8	1262.3	1022.1	817.1	618.0
-57.5°	2930.9	2632.8	2355.8	2078.3	1815.3	1560.1	1322.3	1101.4	897.6	711.6	546.1
-60°	2513.9	2272.1	2022.8	1791.0	1560.1	1342.3	1141.2	946.2	776.0	608.3	472.4
-62.5°	2133.5	1919.1	1718.4	1511.8	1322.3	1141.2	962.5	808.4	651.6	522.2	396.9
-65°	1774.8	1598.2	1419.1	1262.3	1101.4	946.2	808.4	667.8	547.2	434.2	327.1
-67.5°	1432.4	1300.0	1163.2	1022.1	897.6	776.0	651.6	547.2	446.7	344.7	274.0
-70°	1143.2	1025.7	919.8	817.1	711.6	608.3	522.2	434.2	344.7	282.4	220.0
-72.5°	876.6	792.6	705.6	618.0	546.1	472.4	396.9	327.1	274.0	220.0	165.3
-75°	635.9	577.7	519.7	459.9	398.3	337.4	293.6	248.9	203.3	156.9	128.4
-77.5°	445.3	398.7	350.4	314.1	279.4	243.7	207.2	169.9	140.5	119.2	97.7
-80°	283.9	258.7	232.7	205.7	178.0	150.1	134.1	117.7	101.0	84.0	66.7
-82.5°	155.4	143.0	132.3	121.3	109.8	98.1	86.1	73.8	61.2	48.5	41.4
-85°	82.7	75.9	68.7	61.3	53.7	46.0	42.4	38.8	35.2	31.4	27.6
-87.5°	31.1	29.6	28.0	26.4	24.7	23.0	21.2	19.4	17.6	15.7	13.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.9	10.0	8.0	6.0	4.0	2.0	0.0
85°	23.8	19.9	16.0	12.0	8.0	4.0	0.0
82.5°	35.6	29.8	23.9	18.0	12.0	6.0	0.0
80°	49.2	39.6	31.8	23.9	16.0	8.0	0.0
77.5°	75.8	53.8	39.6	29.8	19.9	10.0	0.0
75°	102.3	75.8	49.2	35.6	23.8	11.9	0.0
72.5°	128.4	97.7	66.7	41.4	27.6	13.8	0.0
70°	156.9	119.2	84.0	48.5	31.4	15.7	0.0
67.5°	203.3	140.5	101.0	61.2	35.2	17.6	0.0
65°	248.9	169.9	117.7	73.8	38.8	19.4	0.0
62.5°	293.6	207.2	134.1	86.1	42.4	21.2	0.0
60°	337.4	243.7	150.1	98.1	46.0	23.0	0.0
57.5°	398.3	279.4	178.0	109.8	53.7	24.7	0.0
55°	459.9	314.1	205.7	121.3	61.3	26.4	0.0
52.5°	519.7	350.4	232.7	132.3	68.7	28.0	0.0
50°	577.7	398.7	258.7	143.0	75.9	29.6	0.0
47.5°	635.9	445.3	283.9	155.4	82.7	31.1	0.0
45°	705.2	490.1	308.1	173.5	89.4	32.5	0.0
42.5°	771.6	533.0	331.2	190.9	95.7	33.9	0.0
40°	835.0	574.0	358.7	207.4	101.7	35.2	0.0
37.5°	895.2	612.9	389.7	223.2	107.5	36.5	0.0
35°	952.2	656.7	419.1	238.0	112.9	37.7	0.0
32.5°	1009.4	701.2	446.8	252.0	118.0	38.8	0.0
30°	1070.7	742.8	472.6	265.0	122.7	39.8	0.0
27.5°	1127.6	781.5	496.5	277.1	127.1	40.8	0.0
25°	1180.0	817.0	518.5	288.2	131.2	41.7	0.0
22.5°	1227.8	849.4	538.6	298.4	134.9	42.5	0.0
20°	1270.8	878.6	556.7	307.5	138.2	43.2	0.0
17.5°	1309.0	904.5	572.7	315.6	141.2	43.9	0.0
15°	1342.3	927.1	586.7	322.6	143.7	44.4	0.0
12.5°	1370.6	946.2	598.6	328.6	145.9	44.9	0.0
10°	1393.9	962.0	608.3	333.5	147.7	45.3	0.0
7.5°	1412.0	974.3	615.9	337.4	149.1	45.6	0.0
5°	1425.0	983.1	621.3	340.1	150.1	45.8	0.0
2.5°	1432.8	988.3	624.6	341.8	150.7	46.0	0.0
0°	1435.4	990.1	625.7	342.3	150.9	46.0	0.0
-2.5°	1432.8	988.3	624.6	341.8	150.7	46.0	0.0
-5°	1425.0	983.1	621.3	340.1	150.1	45.8	0.0
-7.5°	1412.0	974.3	615.9	337.4	149.1	45.6	0.0
-10°	1393.9	962.0	608.3	333.5	147.7	45.3	0.0
-12.5°	1370.6	946.2	598.6	328.6	145.9	44.9	0.0
-15°	1342.3	927.1	586.7	322.6	143.7	44.4	0.0
-17.5°	1309.0	904.5	572.7	315.6	141.2	43.9	0.0
-20°	1270.8	878.6	556.7	307.5	138.2	43.2	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1227.8	849.4	538.6	298.4	134.9	42.5	0.0
-25°	1180.0	817.0	518.5	288.2	131.2	41.7	0.0
-27.5°	1127.6	781.5	496.5	277.1	127.1	40.8	0.0
-30°	1070.7	742.8	472.6	265.0	122.7	39.8	0.0
-32.5°	1009.4	701.2	446.8	252.0	118.0	38.8	0.0
-35°	952.2	656.7	419.1	238.0	112.9	37.7	0.0
-37.5°	895.2	612.9	389.7	223.2	107.5	36.5	0.0
-40°	835.0	574.0	358.7	207.4	101.7	35.2	0.0
-42.5°	771.6	533.0	331.2	190.9	95.7	33.9	0.0
-45°	705.2	490.1	308.1	173.5	89.4	32.5	0.0
-47.5°	635.9	445.3	283.9	155.4	82.7	31.1	0.0
-50°	577.7	398.7	258.7	143.0	75.9	29.6	0.0
-52.5°	519.7	350.4	232.7	132.3	68.7	28.0	0.0
-55°	459.9	314.1	205.7	121.3	61.3	26.4	0.0
-57.5°	398.3	279.4	178.0	109.8	53.7	24.7	0.0
-60°	337.4	243.7	150.1	98.1	46.0	23.0	0.0
-62.5°	293.6	207.2	134.1	86.1	42.4	21.2	0.0
-65°	248.9	169.9	117.7	73.8	38.8	19.4	0.0
-67.5°	203.3	140.5	101.0	61.2	35.2	17.6	0.0
-70°	156.9	119.2	84.0	48.5	31.4	15.7	0.0
-72.5°	128.4	97.7	66.7	41.4	27.6	13.8	0.0
-75°	102.3	75.8	49.2	35.6	23.8	11.9	0.0
-77.5°	75.8	53.8	39.6	29.8	19.9	10.0	0.0
-80°	49.2	39.6	31.8	23.9	16.0	8.0	0.0
-82.5°	35.6	29.8	23.9	18.0	12.0	6.0	0.0
-85°	23.8	19.9	16.0	12.0	8.0	4.0	0.0
-87.5°	11.9	10.0	8.0	6.0	4.0	2.0	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

