

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: P731203 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-70-7F-HEG**

Issue Date: 11/16/2023

**Test Information**

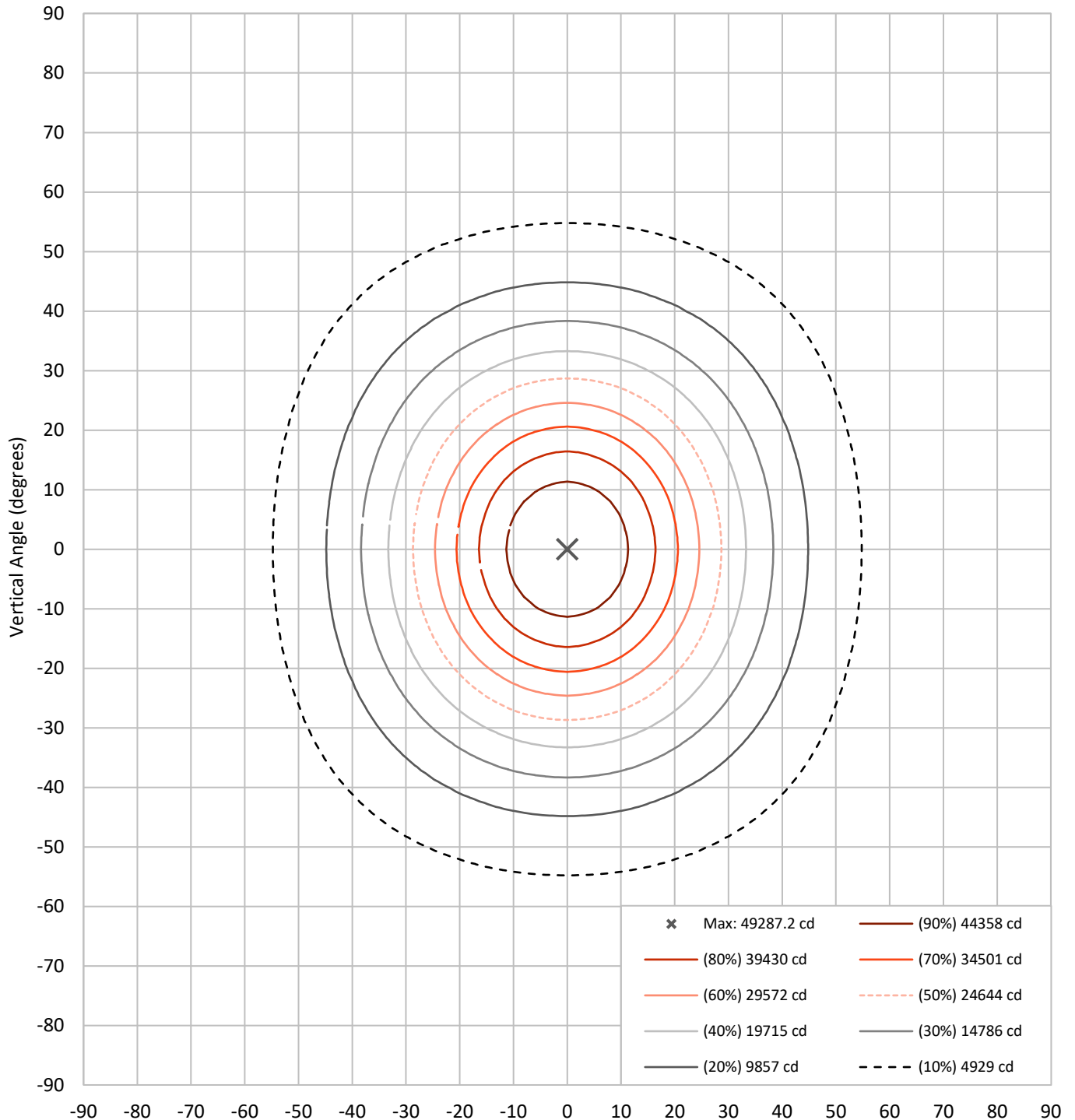
Test Method: LM-79-08  
Report Number: P731203 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-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:	55611 lumens	Max Intensity:	49287.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	160.8 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:	27388.4 lumens	Field Lumens:	50451.2 lumens
Beam Efficiency:	49.2%	Field Efficiency:	90.7%
Input Watts (W):	345.8		
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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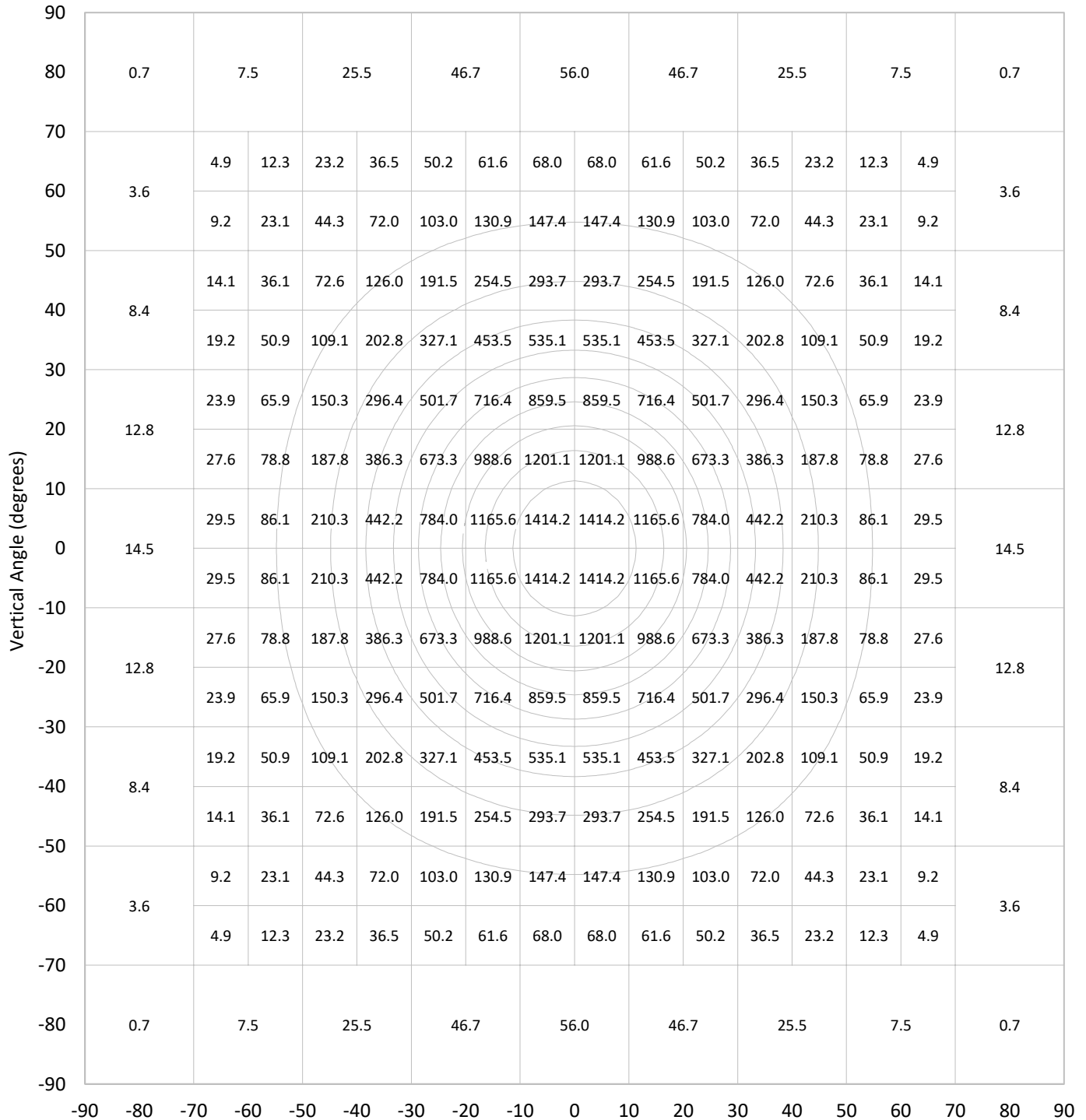
### Iso-Candela Plot





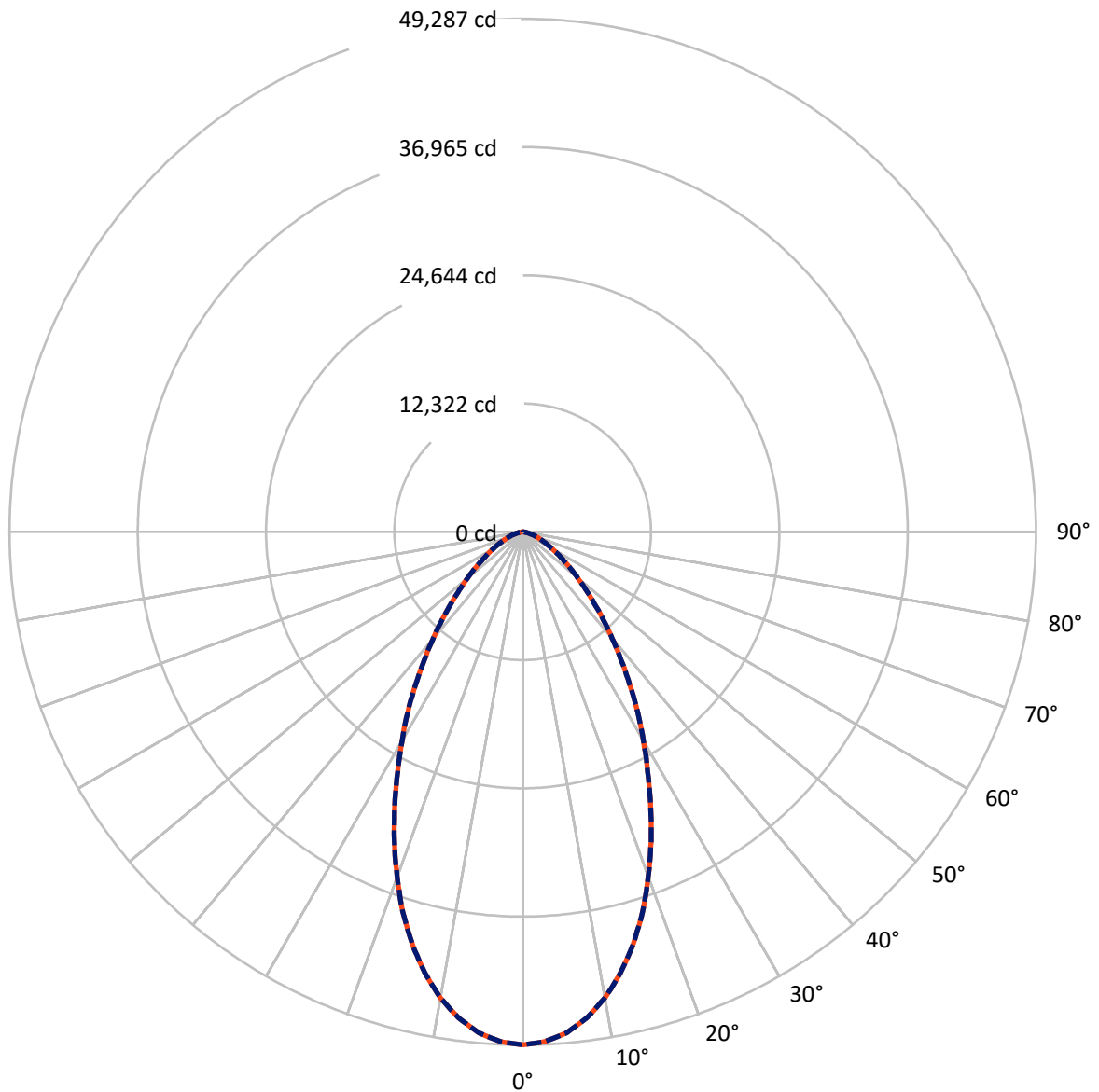
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### Lumen Table



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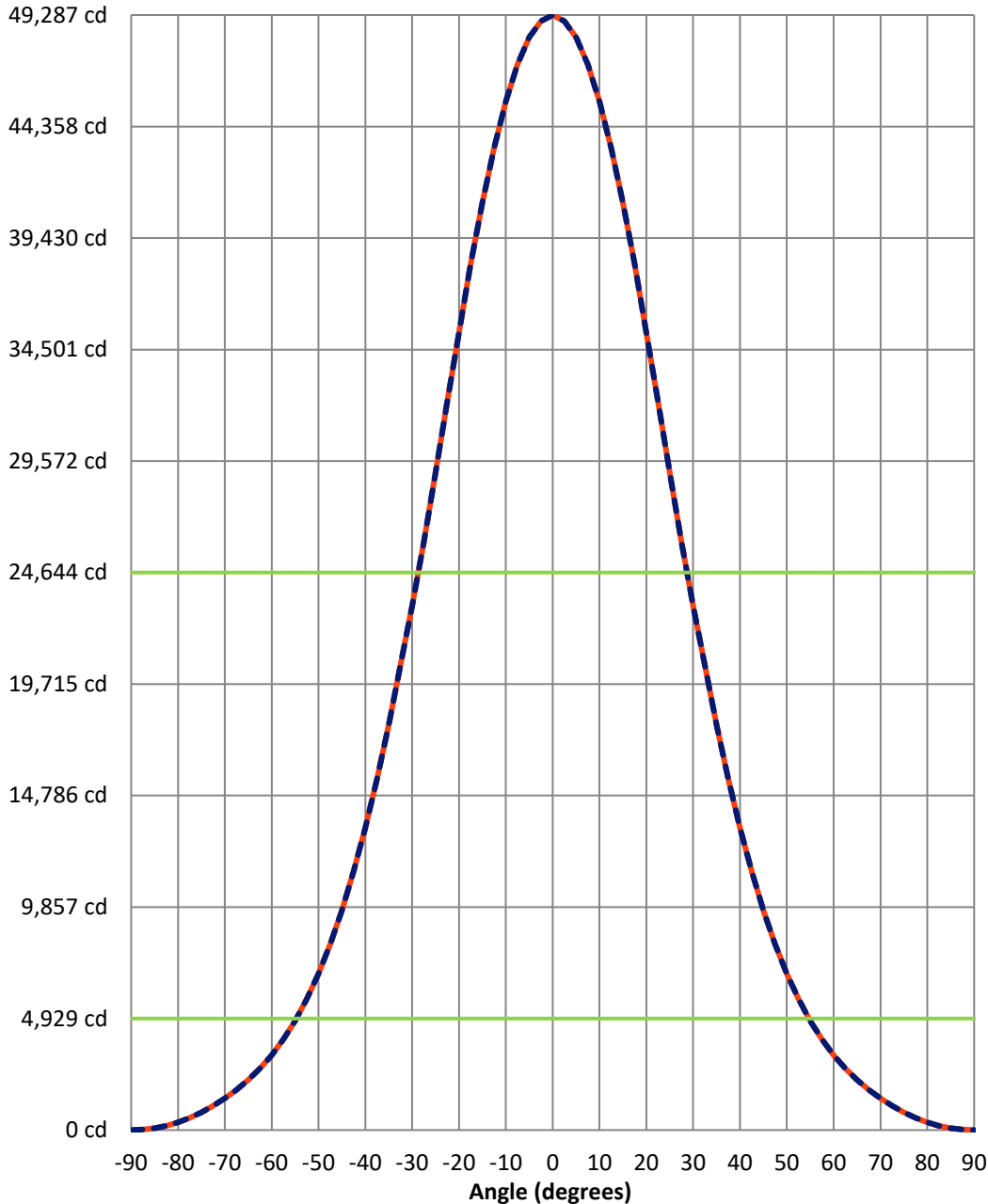
### Luminous Intensity Polar Plot



— 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: 27388.4  
Efficiency: 49.2%

**Field:**  
H Angle: 109.4°  
V Angle: 109.4°  
Lumens: 50451.2  
Efficiency: 90.7%

**Spill:**  
Lumens: 5159.8  
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	1.1	2.2	3.3	4.4	5.4	6.5	7.5	8.6	9.6	10.6
85°	0.0	2.2	4.4	6.5	8.7	10.9	13.0	15.1	17.2	19.2	21.2
82.5°	0.0	3.3	6.5	9.8	13.0	16.3	19.4	22.6	26.4	33.4	40.2
80°	0.0	4.4	8.7	13.0	17.3	21.6	26.8	36.4	45.8	55.0	64.1
77.5°	0.0	5.4	10.9	16.3	21.6	29.3	41.3	53.2	65.0	76.5	92.5
75°	0.0	6.5	13.0	19.4	26.8	41.3	55.7	70.0	85.5	110.7	135.5
72.5°	0.0	7.5	15.1	22.6	36.4	53.2	70.0	90.0	119.8	149.2	178.1
70°	0.0	8.6	17.2	26.4	45.8	65.0	85.5	119.8	153.8	187.7	236.5
67.5°	0.0	9.6	19.2	33.4	55.0	76.5	110.7	149.2	187.7	243.3	298.0
65°	0.0	10.6	21.2	40.2	64.1	92.5	135.5	178.1	236.5	298.0	363.7
62.5°	0.0	11.6	23.2	46.9	73.0	112.9	159.9	216.1	284.4	354.9	440.3
60°	0.0	12.5	25.1	53.5	81.8	132.7	183.7	257.3	331.3	422.7	515.4
57.5°	0.0	13.5	29.3	59.9	96.9	152.1	216.9	297.4	387.6	488.9	599.9
55°	0.0	14.4	33.4	66.1	112.0	171.0	250.5	336.6	445.1	556.7	687.6
52.5°	0.0	15.3	37.5	72.1	126.7	190.8	283.1	384.3	501.0	633.5	772.9
50°	0.0	16.1	41.4	77.9	140.9	217.1	314.6	431.7	558.7	708.1	870.5
47.5°	0.0	17.0	45.1	84.7	154.6	242.5	346.4	477.5	622.7	780.2	966.7
45°	0.0	17.7	48.7	94.5	167.8	266.9	384.1	521.6	684.4	863.2	1059.4
42.5°	0.0	18.5	52.1	104.0	180.4	290.3	420.3	569.3	743.5	943.2	1159.2
40°	0.0	19.2	55.4	113.0	195.3	312.6	454.8	618.6	803.8	1019.8	1256.4
37.5°	0.0	19.9	58.6	121.5	212.2	333.8	487.6	665.6	868.3	1095.5	1349.0
35°	0.0	20.6	61.5	129.6	228.3	357.7	518.7	710.0	929.5	1174.2	1441.5
32.5°	0.0	21.2	64.3	137.2	243.3	381.9	549.8	751.9	987.1	1248.4	1535.8
30°	0.0	21.7	66.9	144.3	257.4	404.6	583.2	792.8	1041.0	1317.9	1624.2
27.5°	0.0	22.3	69.3	150.9	270.4	425.6	614.2	836.4	1093.7	1382.5	1706.4
25°	0.0	22.7	71.5	157.0	282.4	445.0	642.7	876.6	1146.3	1447.4	1782.9
22.5°	0.0	23.2	73.5	162.5	293.4	462.7	668.7	913.2	1194.3	1509.3	1863.7
20°	0.0	23.6	75.3	167.4	303.2	478.6	692.2	946.2	1237.5	1565.1	1936.7
17.5°	0.0	23.9	76.9	171.9	311.9	492.7	713.0	975.5	1276.0	1614.7	2001.6
15°	0.0	24.2	78.3	175.7	319.6	505.0	731.1	1001.0	1309.5	1658.0	2058.3
12.5°	0.0	24.5	79.5	178.9	326.0	515.4	746.5	1022.8	1338.0	1694.8	2106.5
10°	0.0	24.7	80.5	181.6	331.3	524.0	759.2	1040.6	1361.4	1725.1	2146.2
7.5°	0.0	24.9	81.2	183.7	335.5	530.7	769.1	1054.5	1379.7	1748.7	2177.2
5°	0.0	25.0	81.8	185.2	338.4	535.5	776.1	1064.5	1392.8	1765.6	2199.4
2.5°	0.0	25.1	82.1	186.1	340.2	538.3	780.4	1070.5	1400.7	1775.8	2212.7
0°	0.0	25.1	82.2	186.4	340.8	539.3	781.8	1072.5	1403.3	1779.2	2217.2
-2.5°	0.0	25.1	82.1	186.1	340.2	538.3	780.4	1070.5	1400.7	1775.8	2212.7
-5°	0.0	25.0	81.8	185.2	338.4	535.5	776.1	1064.5	1392.8	1765.6	2199.4
-7.5°	0.0	24.9	81.2	183.7	335.5	530.7	769.1	1054.5	1379.7	1748.7	2177.2
-10°	0.0	24.7	80.5	181.6	331.3	524.0	759.2	1040.6	1361.4	1725.1	2146.2
-12.5°	0.0	24.5	79.5	178.9	326.0	515.4	746.5	1022.8	1338.0	1694.8	2106.5
-15°	0.0	24.2	78.3	175.7	319.6	505.0	731.1	1001.0	1309.5	1658.0	2058.3
-17.5°	0.0	23.9	76.9	171.9	311.9	492.7	713.0	975.5	1276.0	1614.7	2001.6
-20°	0.0	23.6	75.3	167.4	303.2	478.6	692.2	946.2	1237.5	1565.1	1936.7



REPORT NUMBER: P731203 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	23.2	73.5	162.5	293.4	462.7	668.7	913.2	1194.3	1509.3	1863.7
-25°	0.0	22.7	71.5	157.0	282.4	445.0	642.7	876.6	1146.3	1447.4	1782.9
-27.5°	0.0	22.3	69.3	150.9	270.4	425.6	614.2	836.4	1093.7	1382.5	1706.4
-30°	0.0	21.7	66.9	144.3	257.4	404.6	583.2	792.8	1041.0	1317.9	1624.2
-32.5°	0.0	21.2	64.3	137.2	243.3	381.9	549.8	751.9	987.1	1248.4	1535.8
-35°	0.0	20.6	61.5	129.6	228.3	357.7	518.7	710.0	929.5	1174.2	1441.5
-37.5°	0.0	19.9	58.6	121.5	212.2	333.8	487.6	665.6	868.3	1095.5	1349.0
-40°	0.0	19.2	55.4	113.0	195.3	312.6	454.8	618.6	803.8	1019.8	1256.4
-42.5°	0.0	18.5	52.1	104.0	180.4	290.3	420.3	569.3	743.5	943.2	1159.2
-45°	0.0	17.7	48.7	94.5	167.8	266.9	384.1	521.6	684.4	863.2	1059.4
-47.5°	0.0	17.0	45.1	84.7	154.6	242.5	346.4	477.5	622.7	780.2	966.7
-50°	0.0	16.1	41.4	77.9	140.9	217.1	314.6	431.7	558.7	708.1	870.5
-52.5°	0.0	15.3	37.5	72.1	126.7	190.8	283.1	384.3	501.0	633.5	772.9
-55°	0.0	14.4	33.4	66.1	112.0	171.0	250.5	336.6	445.1	556.7	687.6
-57.5°	0.0	13.5	29.3	59.9	96.9	152.1	216.9	297.4	387.6	488.9	599.9
-60°	0.0	12.5	25.1	53.5	81.8	132.7	183.7	257.3	331.3	422.7	515.4
-62.5°	0.0	11.6	23.2	46.9	73.0	112.9	159.9	216.1	284.4	354.9	440.3
-65°	0.0	10.6	21.2	40.2	64.1	92.5	135.5	178.1	236.5	298.0	363.7
-67.5°	0.0	9.6	19.2	33.4	55.0	76.5	110.7	149.2	187.7	243.3	298.0
-70°	0.0	8.6	17.2	26.4	45.8	65.0	85.5	119.8	153.8	187.7	236.5
-72.5°	0.0	7.5	15.1	22.6	36.4	53.2	70.0	90.0	119.8	149.2	178.1
-75°	0.0	6.5	13.0	19.4	26.8	41.3	55.7	70.0	85.5	110.7	135.5
-77.5°	0.0	5.4	10.9	16.3	21.6	29.3	41.3	53.2	65.0	76.5	92.5
-80°	0.0	4.4	8.7	13.0	17.3	21.6	26.8	36.4	45.8	55.0	64.1
-82.5°	0.0	3.3	6.5	9.8	13.0	16.3	19.4	22.6	26.4	33.4	40.2
-85°	0.0	2.2	4.4	6.5	8.7	10.9	13.0	15.1	17.2	19.2	21.2
-87.5°	0.0	1.1	2.2	3.3	4.4	5.4	6.5	7.5	8.6	9.6	10.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	-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°	11.6	12.5	13.5	14.4	15.3	16.1	17.0	17.7	18.5	19.2	19.9
85°	23.2	25.1	29.3	33.4	37.5	41.4	45.1	48.7	52.1	55.4	58.6
82.5°	46.9	53.5	59.9	66.1	72.1	77.9	84.7	94.5	104.0	113.0	121.5
80°	73.0	81.8	96.9	112.0	126.7	140.9	154.6	167.8	180.4	195.3	212.2
77.5°	112.9	132.7	152.1	171.0	190.8	217.1	242.5	266.9	290.3	312.6	333.8
75°	159.9	183.7	216.9	250.5	283.1	314.6	346.4	384.1	420.3	454.8	487.6
72.5°	216.1	257.3	297.4	336.6	384.3	431.7	477.5	521.6	569.3	618.6	665.6
70°	284.4	331.3	387.6	445.1	501.0	558.7	622.7	684.4	743.5	803.8	868.3
67.5°	354.9	422.7	488.9	556.7	633.5	708.1	780.2	863.2	943.2	1019.8	1095.5
65°	440.3	515.4	599.9	687.6	772.9	870.5	966.7	1059.4	1159.2	1256.4	1349.0
62.5°	524.3	621.6	720.2	823.4	935.9	1045.3	1162.1	1278.5	1390.5	1510.8	1627.3
60°	621.6	731.1	849.7	975.5	1101.7	1237.5	1369.2	1509.3	1648.6	1782.9	1931.7
57.5°	720.2	849.7	988.7	1132.0	1283.2	1434.0	1596.4	1753.5	1925.8	2095.5	2264.0
55°	823.4	975.5	1132.0	1298.4	1469.0	1649.1	1831.6	2029.3	2220.6	2432.8	2635.9
52.5°	935.9	1101.7	1283.2	1469.0	1666.7	1873.1	2091.9	2317.8	2555.0	2792.6	3044.7
50°	1045.3	1237.5	1434.0	1649.1	1873.1	2112.9	2366.7	2629.0	2907.1	3189.0	3492.9
47.5°	1162.1	1369.2	1596.4	1831.6	2091.9	2366.7	2653.8	2964.8	3276.5	3636.1	3988.2
45°	1278.5	1509.3	1753.5	2029.3	2317.8	2629.0	2964.8	3305.8	3708.3	4109.7	4538.3
42.5°	1390.5	1648.6	1925.8	2220.6	2555.0	2907.1	3276.5	3708.3	4151.7	4623.5	5132.2
40°	1510.8	1782.9	2095.5	2432.8	2792.6	3189.0	3636.1	4109.7	4623.5	5184.6	5767.1
37.5°	1627.3	1931.7	2264.0	2635.9	3044.7	3492.9	3988.2	4538.3	5132.2	5767.1	6466.8
35°	1737.8	2073.2	2442.4	2845.5	3285.3	3807.4	4369.4	4975.8	5660.4	6404.4	7187.2
32.5°	1852.7	2207.0	2611.3	3056.7	3558.4	4119.6	4735.9	5448.9	6218.3	7037.9	7952.4
30°	1966.8	2350.6	2777.1	3255.5	3820.1	4442.0	5136.5	5912.1	6766.8	7724.1	8750.6
27.5°	2073.2	2486.0	2947.7	3470.5	4072.4	4744.3	5529.4	6394.7	7348.8	8395.8	9543.1
25°	2171.5	2611.3	3105.7	3679.8	4332.0	5067.3	5909.5	6845.0	7916.0	9091.5	10382.8
22.5°	2268.2	2726.3	3250.4	3871.9	4570.5	5379.2	6295.0	7321.4	8473.5	9742.1	11188.9
20°	2362.1	2845.5	3397.7	4050.5	4786.9	5662.6	6645.9	7766.0	9022.3	10429.9	11981.3
17.5°	2445.6	2951.8	3539.6	4227.9	5013.1	5933.5	6969.3	8165.3	9516.2	11050.5	12722.3
15°	2518.5	3044.7	3663.8	4383.2	5217.6	6188.0	7293.3	8560.4	9991.8	11615.8	13381.8
12.5°	2580.7	3123.8	3769.7	4515.8	5392.3	6405.8	7571.0	8905.4	10427.3	12138.5	14021.6
10°	2631.8	3189.0	3857.0	4625.2	5536.5	6585.7	7800.6	9191.1	10788.5	12572.8	14554.4
7.5°	2671.8	3240.0	3925.3	4710.7	5649.5	6726.6	7980.8	9415.5	11072.6	12914.9	14974.8
5°	2700.4	3276.5	3974.2	4772.1	5730.6	6827.9	8110.3	9577.0	11277.2	13161.6	15278.5
2.5°	2717.7	3298.5	4003.7	4809.1	5779.4	6888.9	8188.3	9674.4	11400.7	13310.7	15462.2
0°	2723.4	3305.8	4013.5	4821.4	5795.7	6909.3	8214.4	9706.9	11442.0	13360.5	15523.6
-2.5°	2717.7	3298.5	4003.7	4809.1	5779.4	6888.9	8188.3	9674.4	11400.7	13310.7	15462.2
-5°	2700.4	3276.5	3974.2	4772.1	5730.6	6827.9	8110.3	9577.0	11277.2	13161.6	15278.5
-7.5°	2671.8	3240.0	3925.3	4710.7	5649.5	6726.6	7980.8	9415.5	11072.6	12914.9	14974.8
-10°	2631.8	3189.0	3857.0	4625.2	5536.5	6585.7	7800.6	9191.1	10788.5	12572.8	14554.4
-12.5°	2580.7	3123.8	3769.7	4515.8	5392.3	6405.8	7571.0	8905.4	10427.3	12138.5	14021.6
-15°	2518.5	3044.7	3663.8	4383.2	5217.6	6188.0	7293.3	8560.4	9991.8	11615.8	13381.8
-17.5°	2445.6	2951.8	3539.6	4227.9	5013.1	5933.5	6969.3	8165.3	9516.2	11050.5	12722.3
-20°	2362.1	2845.5	3397.7	4050.5	4786.9	5662.6	6645.9	7766.0	9022.3	10429.9	11981.3



REPORT NUMBER: P731203 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-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°	2268.2	2726.3	3250.4	3871.9	4570.5	5379.2	6295.0	7321.4	8473.5	9742.1	11188.9
-25°	2171.5	2611.3	3105.7	3679.8	4332.0	5067.3	5909.5	6845.0	7916.0	9091.5	10382.8
-27.5°	2073.2	2486.0	2947.7	3470.5	4072.4	4744.3	5529.4	6394.7	7348.8	8395.8	9543.1
-30°	1966.8	2350.6	2777.1	3255.5	3820.1	4442.0	5136.5	5912.1	6766.8	7724.1	8750.6
-32.5°	1852.7	2207.0	2611.3	3056.7	3558.4	4119.6	4735.9	5448.9	6218.3	7037.9	7952.4
-35°	1737.8	2073.2	2442.4	2845.5	3285.3	3807.4	4369.4	4975.8	5660.4	6404.4	7187.2
-37.5°	1627.3	1931.7	2264.0	2635.9	3044.7	3492.9	3988.2	4538.3	5132.2	5767.1	6466.8
-40°	1510.8	1782.9	2095.5	2432.8	2792.6	3189.0	3636.1	4109.7	4623.5	5184.6	5767.1
-42.5°	1390.5	1648.6	1925.8	2220.6	2555.0	2907.1	3276.5	3708.3	4151.7	4623.5	5132.2
-45°	1278.5	1509.3	1753.5	2029.3	2317.8	2629.0	2964.8	3305.8	3708.3	4109.7	4538.3
-47.5°	1162.1	1369.2	1596.4	1831.6	2091.9	2366.7	2653.8	2964.8	3276.5	3636.1	3988.2
-50°	1045.3	1237.5	1434.0	1649.1	1873.1	2112.9	2366.7	2629.0	2907.1	3189.0	3492.9
-52.5°	935.9	1101.7	1283.2	1469.0	1666.7	1873.1	2091.9	2317.8	2555.0	2792.6	3044.7
-55°	823.4	975.5	1132.0	1298.4	1469.0	1649.1	1831.6	2029.3	2220.6	2432.8	2635.9
-57.5°	720.2	849.7	988.7	1132.0	1283.2	1434.0	1596.4	1753.5	1925.8	2095.5	2264.0
-60°	621.6	731.1	849.7	975.5	1101.7	1237.5	1369.2	1509.3	1648.6	1782.9	1931.7
-62.5°	524.3	621.6	720.2	823.4	935.9	1045.3	1162.1	1278.5	1390.5	1510.8	1627.3
-65°	440.3	515.4	599.9	687.6	772.9	870.5	966.7	1059.4	1159.2	1256.4	1349.0
-67.5°	354.9	422.7	488.9	556.7	633.5	708.1	780.2	863.2	943.2	1019.8	1095.5
-70°	284.4	331.3	387.6	445.1	501.0	558.7	622.7	684.4	743.5	803.8	868.3
-72.5°	216.1	257.3	297.4	336.6	384.3	431.7	477.5	521.6	569.3	618.6	665.6
-75°	159.9	183.7	216.9	250.5	283.1	314.6	346.4	384.1	420.3	454.8	487.6
-77.5°	112.9	132.7	152.1	171.0	190.8	217.1	242.5	266.9	290.3	312.6	333.8
-80°	73.0	81.8	96.9	112.0	126.7	140.9	154.6	167.8	180.4	195.3	212.2
-82.5°	46.9	53.5	59.9	66.1	72.1	77.9	84.7	94.5	104.0	113.0	121.5
-85°	23.2	25.1	29.3	33.4	37.5	41.4	45.1	48.7	52.1	55.4	58.6
-87.5°	11.6	12.5	13.5	14.4	15.3	16.1	17.0	17.7	18.5	19.2	19.9
-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: P731203 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-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°	20.6	21.2	21.7	22.3	22.7	23.2	23.6	23.9	24.2	24.5	24.7
85°	61.5	64.3	66.9	69.3	71.5	73.5	75.3	76.9	78.3	79.5	80.5
82.5°	129.6	137.2	144.3	150.9	157.0	162.5	167.4	171.9	175.7	178.9	181.6
80°	228.3	243.3	257.4	270.4	282.4	293.4	303.2	311.9	319.6	326.0	331.3
77.5°	357.7	381.9	404.6	425.6	445.0	462.7	478.6	492.7	505.0	515.4	524.0
75°	518.7	549.8	583.2	614.2	642.7	668.7	692.2	713.0	731.1	746.5	759.2
72.5°	710.0	751.9	792.8	836.4	876.6	913.2	946.2	975.5	1001.0	1022.8	1040.6
70°	929.5	987.1	1041.0	1093.7	1146.3	1194.3	1237.5	1276.0	1309.5	1338.0	1361.4
67.5°	1174.2	1248.4	1317.9	1382.5	1447.4	1509.3	1565.1	1614.7	1658.0	1694.8	1725.1
65°	1441.5	1535.8	1624.2	1706.4	1782.9	1863.7	1936.7	2001.6	2058.3	2106.5	2146.2
62.5°	1737.8	1852.7	1966.8	2073.2	2171.5	2268.2	2362.1	2445.6	2518.5	2580.7	2631.8
60°	2073.2	2207.0	2350.6	2486.0	2611.3	2726.3	2845.5	2951.8	3044.7	3123.8	3189.0
57.5°	2442.4	2611.3	2777.1	2947.7	3105.7	3250.4	3397.7	3539.6	3663.8	3769.7	3857.0
55°	2845.5	3056.7	3255.5	3470.5	3679.8	3871.9	4050.5	4227.9	4383.2	4515.8	4625.2
52.5°	3285.3	3558.4	3820.1	4072.4	4332.0	4570.5	4786.9	5013.1	5217.6	5392.3	5536.5
50°	3807.4	4119.6	4442.0	4744.3	5067.3	5379.2	5662.6	5933.5	6188.0	6405.8	6585.7
47.5°	4369.4	4735.9	5136.5	5529.4	5909.5	6295.0	6645.9	6969.3	7293.3	7571.0	7800.6
45°	4975.8	5448.9	5912.1	6394.7	6845.0	7321.4	7766.0	8165.3	8560.4	8905.4	9191.1
42.5°	5660.4	6218.3	6766.8	7348.8	7916.0	8473.5	9022.3	9516.2	9991.8	10427.3	10788.5
40°	6404.4	7037.9	7724.1	8395.8	9091.5	9742.1	10429.9	11050.5	11615.8	12138.5	12572.8
37.5°	7187.2	7952.4	8750.6	9543.1	10382.8	11188.9	11981.3	12722.3	13381.8	14021.6	14554.4
35°	8029.1	8930.0	9836.4	10818.6	11777.0	12733.3	13647.4	14549.5	15351.9	16101.0	16741.2
32.5°	8930.0	9943.9	11039.3	12152.5	13246.3	14387.2	15456.5	16524.2	17483.6	18360.0	19131.5
30°	9836.4	11039.3	12278.8	13525.1	14840.1	16134.5	17403.0	18631.7	19781.0	20783.0	21622.9
27.5°	10818.6	12152.5	13525.1	14992.7	16482.7	17945.9	19451.7	20834.9	22077.2	23166.9	24157.7
25°	11777.0	13246.3	14840.1	16482.7	18147.0	19869.6	21482.8	22972.0	24410.3	25693.0	26850.1
22.5°	12733.3	14387.2	16134.5	17945.9	19869.6	21701.9	23449.7	25181.7	26828.3	28354.2	29673.7
20°	13647.4	15456.5	17403.0	19451.7	21482.8	23449.7	25443.3	27425.8	29299.8	31013.7	32485.3
17.5°	14549.5	16524.2	18631.7	20834.9	22972.0	25181.7	27425.8	29627.3	31708.4	33552.4	35150.6
15°	15351.9	17483.6	19781.0	22077.2	24410.3	26828.3	29299.8	31708.4	33918.5	35936.1	37727.7
12.5°	16101.0	18360.0	20783.0	23166.9	25693.0	28354.2	31013.7	33552.4	35936.1	38162.9	39959.0
10°	16741.2	19131.5	21622.9	24157.7	26850.1	29673.7	32485.3	35150.6	37727.7	39959.0	41917.5
7.5°	17247.6	19743.5	22291.3	24949.9	27800.8	30754.1	33656.5	36472.8	39122.9	41462.2	43427.4
5°	17614.1	20187.3	22777.4	25528.0	28497.7	31550.6	34526.6	37465.7	40136.9	42547.1	44556.8
2.5°	17835.9	20456.3	23072.7	25880.1	28923.4	32039.2	35063.5	38083.4	40775.3	43193.9	45232.5
0°	17910.2	20546.5	23171.7	25998.3	29066.6	32204.0	35245.1	38293.3	40993.7	43407.4	45465.2
-2.5°	17835.9	20456.3	23072.7	25880.1	28923.4	32039.2	35063.5	38083.4	40775.3	43193.9	45232.5
-5°	17614.1	20187.3	22777.4	25528.0	28497.7	31550.6	34526.6	37465.7	40136.9	42547.1	44556.8
-7.5°	17247.6	19743.5	22291.3	24949.9	27800.8	30754.1	33656.5	36472.8	39122.9	41462.2	43427.4
-10°	16741.2	19131.5	21622.9	24157.7	26850.1	29673.7	32485.3	35150.6	37727.7	39959.0	41917.5
-12.5°	16101.0	18360.0	20783.0	23166.9	25693.0	28354.2	31013.7	33552.4	35936.1	38162.9	39959.0
-15°	15351.9	17483.6	19781.0	22077.2	24410.3	26828.3	29299.8	31708.4	33918.5	35936.1	37727.7
-17.5°	14549.5	16524.2	18631.7	20834.9	22972.0	25181.7	27425.8	29627.3	31708.4	33552.4	35150.6
-20°	13647.4	15456.5	17403.0	19451.7	21482.8	23449.7	25443.3	27425.8	29299.8	31013.7	32485.3



REPORT NUMBER: P731203 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-7F-HEG

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	12733.3	14387.2	16134.5	17945.9	19869.6	21701.9	23449.7	25181.7	26828.3	28354.2	29673.7
-25°	11777.0	13246.3	14840.1	16482.7	18147.0	19869.6	21482.8	22972.0	24410.3	25693.0	26850.1
-27.5°	10818.6	12152.5	13525.1	14992.7	16482.7	17945.9	19451.7	20834.9	22077.2	23166.9	24157.7
-30°	9836.4	11039.3	12278.8	13525.1	14840.1	16134.5	17403.0	18631.7	19781.0	20783.0	21622.9
-32.5°	8930.0	9943.9	11039.3	12152.5	13246.3	14387.2	15456.5	16524.2	17483.6	18360.0	19131.5
-35°	8029.1	8930.0	9836.4	10818.6	11777.0	12733.3	13647.4	14549.5	15351.9	16101.0	16741.2
-37.5°	7187.2	7952.4	8750.6	9543.1	10382.8	11188.9	11981.3	12722.3	13381.8	14021.6	14554.4
-40°	6404.4	7037.9	7724.1	8395.8	9091.5	9742.1	10429.9	11050.5	11615.8	12138.5	12572.8
-42.5°	5660.4	6218.3	6766.8	7348.8	7916.0	8473.5	9022.3	9516.2	9991.8	10427.3	10788.5
-45°	4975.8	5448.9	5912.1	6394.7	6845.0	7321.4	7766.0	8165.3	8560.4	8905.4	9191.1
-47.5°	4369.4	4735.9	5136.5	5529.4	5909.5	6295.0	6645.9	6969.3	7293.3	7571.0	7800.6
-50°	3807.4	4119.6	4442.0	4744.3	5067.3	5379.2	5662.6	5933.5	6188.0	6405.8	6585.7
-52.5°	3285.3	3558.4	3820.1	4072.4	4332.0	4570.5	4786.9	5013.1	5217.6	5392.3	5536.5
-55°	2845.5	3056.7	3255.5	3470.5	3679.8	3871.9	4050.5	4227.9	4383.2	4515.8	4625.2
-57.5°	2442.4	2611.3	2777.1	2947.7	3105.7	3250.4	3397.7	3539.6	3663.8	3769.7	3857.0
-60°	2073.2	2207.0	2350.6	2486.0	2611.3	2726.3	2845.5	2951.8	3044.7	3123.8	3189.0
-62.5°	1737.8	1852.7	1966.8	2073.2	2171.5	2268.2	2362.1	2445.6	2518.5	2580.7	2631.8
-65°	1441.5	1535.8	1624.2	1706.4	1782.9	1863.7	1936.7	2001.6	2058.3	2106.5	2146.2
-67.5°	1174.2	1248.4	1317.9	1382.5	1447.4	1509.3	1565.1	1614.7	1658.0	1694.8	1725.1
-70°	929.5	987.1	1041.0	1093.7	1146.3	1194.3	1237.5	1276.0	1309.5	1338.0	1361.4
-72.5°	710.0	751.9	792.8	836.4	876.6	913.2	946.2	975.5	1001.0	1022.8	1040.6
-75°	518.7	549.8	583.2	614.2	642.7	668.7	692.2	713.0	731.1	746.5	759.2
-77.5°	357.7	381.9	404.6	425.6	445.0	462.7	478.6	492.7	505.0	515.4	524.0
-80°	228.3	243.3	257.4	270.4	282.4	293.4	303.2	311.9	319.6	326.0	331.3
-82.5°	129.6	137.2	144.3	150.9	157.0	162.5	167.4	171.9	175.7	178.9	181.6
-85°	61.5	64.3	66.9	69.3	71.5	73.5	75.3	76.9	78.3	79.5	80.5
-87.5°	20.6	21.2	21.7	22.3	22.7	23.2	23.6	23.9	24.2	24.5	24.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731203 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-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°	24.9	25.0	25.1	25.1	25.1	25.0	24.9	24.7	24.5	24.2	23.9
85°	81.2	81.8	82.1	82.2	82.1	81.8	81.2	80.5	79.5	78.3	76.9
82.5°	183.7	185.2	186.1	186.4	186.1	185.2	183.7	181.6	178.9	175.7	171.9
80°	335.5	338.4	340.2	340.8	340.2	338.4	335.5	331.3	326.0	319.6	311.9
77.5°	530.7	535.5	538.3	539.3	538.3	535.5	530.7	524.0	515.4	505.0	492.7
75°	769.1	776.1	780.4	781.8	780.4	776.1	769.1	759.2	746.5	731.1	713.0
72.5°	1054.5	1064.5	1070.5	1072.5	1070.5	1064.5	1054.5	1040.6	1022.8	1001.0	975.5
70°	1379.7	1392.8	1400.7	1403.3	1400.7	1392.8	1379.7	1361.4	1338.0	1309.5	1276.0
67.5°	1748.7	1765.6	1775.8	1779.2	1775.8	1765.6	1748.7	1725.1	1694.8	1658.0	1614.7
65°	2177.2	2199.4	2212.7	2217.2	2212.7	2199.4	2177.2	2146.2	2106.5	2058.3	2001.6
62.5°	2671.8	2700.4	2717.7	2723.4	2717.7	2700.4	2671.8	2631.8	2580.7	2518.5	2445.6
60°	3240.0	3276.5	3298.5	3305.8	3298.5	3276.5	3240.0	3189.0	3123.8	3044.7	2951.8
57.5°	3925.3	3974.2	4003.7	4013.5	4003.7	3974.2	3925.3	3857.0	3769.7	3663.8	3539.6
55°	4710.7	4772.1	4809.1	4821.4	4809.1	4772.1	4710.7	4625.2	4515.8	4383.2	4227.9
52.5°	5649.5	5730.6	5779.4	5795.7	5779.4	5730.6	5649.5	5536.5	5392.3	5217.6	5013.1
50°	6726.6	6827.9	6888.9	6909.3	6888.9	6827.9	6726.6	6585.7	6405.8	6188.0	5933.5
47.5°	7980.8	8110.3	8188.3	8214.4	8188.3	8110.3	7980.8	7800.6	7571.0	7293.3	6969.3
45°	9415.5	9577.0	9674.4	9706.9	9674.4	9577.0	9415.5	9191.1	8905.4	8560.4	8165.3
42.5°	11072.6	11277.2	11400.7	11442.0	11400.7	11277.2	11072.6	10788.5	10427.3	9991.8	9516.2
40°	12914.9	13161.6	13310.7	13360.5	13310.7	13161.6	12914.9	12572.8	12138.5	11615.8	11050.5
37.5°	14974.8	15278.5	15462.2	15523.6	15462.2	15278.5	14974.8	14554.4	14021.6	13381.8	12722.3
35°	17247.6	17614.1	17835.9	17910.2	17835.9	17614.1	17247.6	16741.2	16101.0	15351.9	14549.5
32.5°	19743.5	20187.3	20456.3	20546.5	20456.3	20187.3	19743.5	19131.5	18360.0	17483.6	16524.2
30°	22291.3	22777.4	23072.7	23171.7	23072.7	22777.4	22291.3	21622.9	20783.0	19781.0	18631.7
27.5°	24949.9	25528.0	25880.1	25998.3	25880.1	25528.0	24949.9	24157.7	23166.9	22077.2	20834.9
25°	27800.8	28497.7	28923.4	29066.6	28923.4	28497.7	27800.8	26850.1	25693.0	24410.3	22972.0
22.5°	30754.1	31550.6	32039.2	32204.0	32039.2	31550.6	30754.1	29673.7	28354.2	26828.3	25181.7
20°	33656.5	34526.6	35063.5	35245.1	35063.5	34526.6	33656.5	32485.3	31013.7	29299.8	27425.8
17.5°	36472.8	37465.7	38083.4	38293.3	38083.4	37465.7	36472.8	35150.6	33552.4	31708.4	29627.3
15°	39122.9	40136.9	40775.3	40993.7	40775.3	40136.9	39122.9	37727.7	35936.1	33918.5	31708.4
12.5°	41462.2	42547.1	43193.9	43407.4	43193.9	42547.1	41462.2	39959.0	38162.9	35936.1	33552.4
10°	43427.4	44556.8	45232.5	45465.2	45232.5	44556.8	43427.4	41917.5	39959.0	37727.7	35150.6
7.5°	45013.5	46163.7	46878.5	47108.6	46878.5	46163.7	45013.5	43427.4	41462.2	39122.9	36472.8
5°	46163.7	47355.8	48047.8	48303.9	48047.8	47355.8	46163.7	44556.8	42547.1	40136.9	37465.7
2.5°	46878.5	48047.8	48768.5	49013.2	48768.5	48047.8	46878.5	45232.5	43193.9	40775.3	38083.4
0°	47108.6	48303.9	49013.2	49287.2	49013.2	48303.9	47108.6	45465.2	43407.4	40993.7	38293.3
-2.5°	46878.5	48047.8	48768.5	49013.2	48768.5	48047.8	46878.5	45232.5	43193.9	40775.3	38083.4
-5°	46163.7	47355.8	48047.8	48303.9	48047.8	47355.8	46163.7	44556.8	42547.1	40136.9	37465.7
-7.5°	45013.5	46163.7	46878.5	47108.6	46878.5	46163.7	45013.5	43427.4	41462.2	39122.9	36472.8
-10°	43427.4	44556.8	45232.5	45465.2	45232.5	44556.8	43427.4	41917.5	39959.0	37727.7	35150.6
-12.5°	41462.2	42547.1	43193.9	43407.4	43193.9	42547.1	41462.2	39959.0	38162.9	35936.1	33552.4
-15°	39122.9	40136.9	40775.3	40993.7	40775.3	40136.9	39122.9	37727.7	35936.1	33918.5	31708.4
-17.5°	36472.8	37465.7	38083.4	38293.3	38083.4	37465.7	36472.8	35150.6	33552.4	31708.4	29627.3
-20°	33656.5	34526.6	35063.5	35245.1	35063.5	34526.6	33656.5	32485.3	31013.7	29299.8	27425.8



REPORT NUMBER: P731203 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-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°	30754.1	31550.6	32039.2	32204.0	32039.2	31550.6	30754.1	29673.7	28354.2	26828.3	25181.7
-25°	27800.8	28497.7	28923.4	29066.6	28923.4	28497.7	27800.8	26850.1	25693.0	24410.3	22972.0
-27.5°	24949.9	25528.0	25880.1	25998.3	25880.1	25528.0	24949.9	24157.7	23166.9	22077.2	20834.9
-30°	22291.3	22777.4	23072.7	23171.7	23072.7	22777.4	22291.3	21622.9	20783.0	19781.0	18631.7
-32.5°	19743.5	20187.3	20456.3	20546.5	20456.3	20187.3	19743.5	19131.5	18360.0	17483.6	16524.2
-35°	17247.6	17614.1	17835.9	17910.2	17835.9	17614.1	17247.6	16741.2	16101.0	15351.9	14549.5
-37.5°	14974.8	15278.5	15462.2	15523.6	15462.2	15278.5	14974.8	14554.4	14021.6	13381.8	12722.3
-40°	12914.9	13161.6	13310.7	13360.5	13310.7	13161.6	12914.9	12572.8	12138.5	11615.8	11050.5
-42.5°	11072.6	11277.2	11400.7	11442.0	11400.7	11277.2	11072.6	10788.5	10427.3	9991.8	9516.2
-45°	9415.5	9577.0	9674.4	9706.9	9674.4	9577.0	9415.5	9191.1	8905.4	8560.4	8165.3
-47.5°	7980.8	8110.3	8188.3	8214.4	8188.3	8110.3	7980.8	7800.6	7571.0	7293.3	6969.3
-50°	6726.6	6827.9	6888.9	6909.3	6888.9	6827.9	6726.6	6585.7	6405.8	6188.0	5933.5
-52.5°	5649.5	5730.6	5779.4	5795.7	5779.4	5730.6	5649.5	5536.5	5392.3	5217.6	5013.1
-55°	4710.7	4772.1	4809.1	4821.4	4809.1	4772.1	4710.7	4625.2	4515.8	4383.2	4227.9
-57.5°	3925.3	3974.2	4003.7	4013.5	4003.7	3974.2	3925.3	3857.0	3769.7	3663.8	3539.6
-60°	3240.0	3276.5	3298.5	3305.8	3298.5	3276.5	3240.0	3189.0	3123.8	3044.7	2951.8
-62.5°	2671.8	2700.4	2717.7	2723.4	2717.7	2700.4	2671.8	2631.8	2580.7	2518.5	2445.6
-65°	2177.2	2199.4	2212.7	2217.2	2212.7	2199.4	2177.2	2146.2	2106.5	2058.3	2001.6
-67.5°	1748.7	1765.6	1775.8	1779.2	1775.8	1765.6	1748.7	1725.1	1694.8	1658.0	1614.7
-70°	1379.7	1392.8	1400.7	1403.3	1400.7	1392.8	1379.7	1361.4	1338.0	1309.5	1276.0
-72.5°	1054.5	1064.5	1070.5	1072.5	1070.5	1064.5	1054.5	1040.6	1022.8	1001.0	975.5
-75°	769.1	776.1	780.4	781.8	780.4	776.1	769.1	759.2	746.5	731.1	713.0
-77.5°	530.7	535.5	538.3	539.3	538.3	535.5	530.7	524.0	515.4	505.0	492.7
-80°	335.5	338.4	340.2	340.8	340.2	338.4	335.5	331.3	326.0	319.6	311.9
-82.5°	183.7	185.2	186.1	186.4	186.1	185.2	183.7	181.6	178.9	175.7	171.9
-85°	81.2	81.8	82.1	82.2	82.1	81.8	81.2	80.5	79.5	78.3	76.9
-87.5°	24.9	25.0	25.1	25.1	25.1	25.0	24.9	24.7	24.5	24.2	23.9
-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: P731203 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-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°	23.6	23.2	22.7	22.3	21.7	21.2	20.6	19.9	19.2	18.5	17.7
85°	75.3	73.5	71.5	69.3	66.9	64.3	61.5	58.6	55.4	52.1	48.7
82.5°	167.4	162.5	157.0	150.9	144.3	137.2	129.6	121.5	113.0	104.0	94.5
80°	303.2	293.4	282.4	270.4	257.4	243.3	228.3	212.2	195.3	180.4	167.8
77.5°	478.6	462.7	445.0	425.6	404.6	381.9	357.7	333.8	312.6	290.3	266.9
75°	692.2	668.7	642.7	614.2	583.2	549.8	518.7	487.6	454.8	420.3	384.1
72.5°	946.2	913.2	876.6	836.4	792.8	751.9	710.0	665.6	618.6	569.3	521.6
70°	1237.5	1194.3	1146.3	1093.7	1041.0	987.1	929.5	868.3	803.8	743.5	684.4
67.5°	1565.1	1509.3	1447.4	1382.5	1317.9	1248.4	1174.2	1095.5	1019.8	943.2	863.2
65°	1936.7	1863.7	1782.9	1706.4	1624.2	1535.8	1441.5	1349.0	1256.4	1159.2	1059.4
62.5°	2362.1	2268.2	2171.5	2073.2	1966.8	1852.7	1737.8	1627.3	1510.8	1390.5	1278.5
60°	2845.5	2726.3	2611.3	2486.0	2350.6	2207.0	2073.2	1931.7	1782.9	1648.6	1509.3
57.5°	3397.7	3250.4	3105.7	2947.7	2777.1	2611.3	2442.4	2264.0	2095.5	1925.8	1753.5
55°	4050.5	3871.9	3679.8	3470.5	3255.5	3056.7	2845.5	2635.9	2432.8	2220.6	2029.3
52.5°	4786.9	4570.5	4332.0	4072.4	3820.1	3558.4	3285.3	3044.7	2792.6	2555.0	2317.8
50°	5662.6	5379.2	5067.3	4744.3	4442.0	4119.6	3807.4	3492.9	3189.0	2907.1	2629.0
47.5°	6645.9	6295.0	5909.5	5529.4	5136.5	4735.9	4369.4	3988.2	3636.1	3276.5	2964.8
45°	7766.0	7321.4	6845.0	6394.7	5912.1	5448.9	4975.8	4538.3	4109.7	3708.3	3305.8
42.5°	9022.3	8473.5	7916.0	7348.8	6766.8	6218.3	5660.4	5132.2	4623.5	4151.7	3708.3
40°	10429.9	9742.1	9091.5	8395.8	7724.1	7037.9	6404.4	5767.1	5184.6	4623.5	4109.7
37.5°	11981.3	11188.9	10382.8	9543.1	8750.6	7952.4	7187.2	6466.8	5767.1	5132.2	4538.3
35°	13647.4	12733.3	11777.0	10818.6	9836.4	8930.0	8029.1	7187.2	6404.4	5660.4	4975.8
32.5°	15456.5	14387.2	13246.3	12152.5	11039.3	9943.9	8930.0	7952.4	7037.9	6218.3	5448.9
30°	17403.0	16134.5	14840.1	13525.1	12278.8	11039.3	9836.4	8750.6	7724.1	6766.8	5912.1
27.5°	19451.7	17945.9	16482.7	14992.7	13525.1	12152.5	10818.6	9543.1	8395.8	7348.8	6394.7
25°	21482.8	19869.6	18147.0	16482.7	14840.1	13246.3	11777.0	10382.8	9091.5	7916.0	6845.0
22.5°	23449.7	21701.9	19869.6	17945.9	16134.5	14387.2	12733.3	11188.9	9742.1	8473.5	7321.4
20°	25443.3	23449.7	21482.8	19451.7	17403.0	15456.5	13647.4	11981.3	10429.9	9022.3	7766.0
17.5°	27425.8	25181.7	22972.0	20834.9	18631.7	16524.2	14549.5	12722.3	11050.5	9516.2	8165.3
15°	29299.8	26828.3	24410.3	22077.2	19781.0	17483.6	15351.9	13381.8	11615.8	9991.8	8560.4
12.5°	31013.7	28354.2	25693.0	23166.9	20783.0	18360.0	16101.0	14021.6	12138.5	10427.3	8905.4
10°	32485.3	29673.7	26850.1	24157.7	21622.9	19131.5	16741.2	14554.4	12572.8	10788.5	9191.1
7.5°	33656.5	30754.1	27800.8	24949.9	22291.3	19743.5	17247.6	14974.8	12914.9	11072.6	9415.5
5°	34526.6	31550.6	28497.7	25528.0	22777.4	20187.3	17614.1	15278.5	13161.6	11277.2	9577.0
2.5°	35063.5	32039.2	28923.4	25880.1	23072.7	20456.3	17835.9	15462.2	13310.7	11400.7	9674.4
0°	35245.1	32204.0	29066.6	25998.3	23171.7	20546.5	17910.2	15523.6	13360.5	11442.0	9706.9
-2.5°	35063.5	32039.2	28923.4	25880.1	23072.7	20456.3	17835.9	15462.2	13310.7	11400.7	9674.4
-5°	34526.6	31550.6	28497.7	25528.0	22777.4	20187.3	17614.1	15278.5	13161.6	11277.2	9577.0
-7.5°	33656.5	30754.1	27800.8	24949.9	22291.3	19743.5	17247.6	14974.8	12914.9	11072.6	9415.5
-10°	32485.3	29673.7	26850.1	24157.7	21622.9	19131.5	16741.2	14554.4	12572.8	10788.5	9191.1
-12.5°	31013.7	28354.2	25693.0	23166.9	20783.0	18360.0	16101.0	14021.6	12138.5	10427.3	8905.4
-15°	29299.8	26828.3	24410.3	22077.2	19781.0	17483.6	15351.9	13381.8	11615.8	9991.8	8560.4
-17.5°	27425.8	25181.7	22972.0	20834.9	18631.7	16524.2	14549.5	12722.3	11050.5	9516.2	8165.3
-20°	25443.3	23449.7	21482.8	19451.7	17403.0	15456.5	13647.4	11981.3	10429.9	9022.3	7766.0



REPORT NUMBER: P731203 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-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°	23449.7	21701.9	19869.6	17945.9	16134.5	14387.2	12733.3	11188.9	9742.1	8473.5	7321.4
-25°	21482.8	19869.6	18147.0	16482.7	14840.1	13246.3	11777.0	10382.8	9091.5	7916.0	6845.0
-27.5°	19451.7	17945.9	16482.7	14992.7	13525.1	12152.5	10818.6	9543.1	8395.8	7348.8	6394.7
-30°	17403.0	16134.5	14840.1	13525.1	12278.8	11039.3	9836.4	8750.6	7724.1	6766.8	5912.1
-32.5°	15456.5	14387.2	13246.3	12152.5	11039.3	9943.9	8930.0	7952.4	7037.9	6218.3	5448.9
-35°	13647.4	12733.3	11777.0	10818.6	9836.4	8930.0	8029.1	7187.2	6404.4	5660.4	4975.8
-37.5°	11981.3	11188.9	10382.8	9543.1	8750.6	7952.4	7187.2	6466.8	5767.1	5132.2	4538.3
-40°	10429.9	9742.1	9091.5	8395.8	7724.1	7037.9	6404.4	5767.1	5184.6	4623.5	4109.7
-42.5°	9022.3	8473.5	7916.0	7348.8	6766.8	6218.3	5660.4	5132.2	4623.5	4151.7	3708.3
-45°	7766.0	7321.4	6845.0	6394.7	5912.1	5448.9	4975.8	4538.3	4109.7	3708.3	3305.8
-47.5°	6645.9	6295.0	5909.5	5529.4	5136.5	4735.9	4369.4	3988.2	3636.1	3276.5	2964.8
-50°	5662.6	5379.2	5067.3	4744.3	4442.0	4119.6	3807.4	3492.9	3189.0	2907.1	2629.0
-52.5°	4786.9	4570.5	4332.0	4072.4	3820.1	3558.4	3285.3	3044.7	2792.6	2555.0	2317.8
-55°	4050.5	3871.9	3679.8	3470.5	3255.5	3056.7	2845.5	2635.9	2432.8	2220.6	2029.3
-57.5°	3397.7	3250.4	3105.7	2947.7	2777.1	2611.3	2442.4	2264.0	2095.5	1925.8	1753.5
-60°	2845.5	2726.3	2611.3	2486.0	2350.6	2207.0	2073.2	1931.7	1782.9	1648.6	1509.3
-62.5°	2362.1	2268.2	2171.5	2073.2	1966.8	1852.7	1737.8	1627.3	1510.8	1390.5	1278.5
-65°	1936.7	1863.7	1782.9	1706.4	1624.2	1535.8	1441.5	1349.0	1256.4	1159.2	1059.4
-67.5°	1565.1	1509.3	1447.4	1382.5	1317.9	1248.4	1174.2	1095.5	1019.8	943.2	863.2
-70°	1237.5	1194.3	1146.3	1093.7	1041.0	987.1	929.5	868.3	803.8	743.5	684.4
-72.5°	946.2	913.2	876.6	836.4	792.8	751.9	710.0	665.6	618.6	569.3	521.6
-75°	692.2	668.7	642.7	614.2	583.2	549.8	518.7	487.6	454.8	420.3	384.1
-77.5°	478.6	462.7	445.0	425.6	404.6	381.9	357.7	333.8	312.6	290.3	266.9
-80°	303.2	293.4	282.4	270.4	257.4	243.3	228.3	212.2	195.3	180.4	167.8
-82.5°	167.4	162.5	157.0	150.9	144.3	137.2	129.6	121.5	113.0	104.0	94.5
-85°	75.3	73.5	71.5	69.3	66.9	64.3	61.5	58.6	55.4	52.1	48.7
-87.5°	23.6	23.2	22.7	22.3	21.7	21.2	20.6	19.9	19.2	18.5	17.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P731203 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-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°	17.0	16.1	15.3	14.4	13.5	12.5	11.6	10.6	9.6	8.6	7.5
85°	45.1	41.4	37.5	33.4	29.3	25.1	23.2	21.2	19.2	17.2	15.1
82.5°	84.7	77.9	72.1	66.1	59.9	53.5	46.9	40.2	33.4	26.4	22.6
80°	154.6	140.9	126.7	112.0	96.9	81.8	73.0	64.1	55.0	45.8	36.4
77.5°	242.5	217.1	190.8	171.0	152.1	132.7	112.9	92.5	76.5	65.0	53.2
75°	346.4	314.6	283.1	250.5	216.9	183.7	159.9	135.5	110.7	85.5	70.0
72.5°	477.5	431.7	384.3	336.6	297.4	257.3	216.1	178.1	149.2	119.8	90.0
70°	622.7	558.7	501.0	445.1	387.6	331.3	284.4	236.5	187.7	153.8	119.8
67.5°	780.2	708.1	633.5	556.7	488.9	422.7	354.9	298.0	243.3	187.7	149.2
65°	966.7	870.5	772.9	687.6	599.9	515.4	440.3	363.7	298.0	236.5	178.1
62.5°	1162.1	1045.3	935.9	823.4	720.2	621.6	524.3	440.3	354.9	284.4	216.1
60°	1369.2	1237.5	1101.7	975.5	849.7	731.1	621.6	515.4	422.7	331.3	257.3
57.5°	1596.4	1434.0	1283.2	1132.0	988.7	849.7	720.2	599.9	488.9	387.6	297.4
55°	1831.6	1649.1	1469.0	1298.4	1132.0	975.5	823.4	687.6	556.7	445.1	336.6
52.5°	2091.9	1873.1	1666.7	1469.0	1283.2	1101.7	935.9	772.9	633.5	501.0	384.3
50°	2366.7	2112.9	1873.1	1649.1	1434.0	1237.5	1045.3	870.5	708.1	558.7	431.7
47.5°	2653.8	2366.7	2091.9	1831.6	1596.4	1369.2	1162.1	966.7	780.2	622.7	477.5
45°	2964.8	2629.0	2317.8	2029.3	1753.5	1509.3	1278.5	1059.4	863.2	684.4	521.6
42.5°	3276.5	2907.1	2555.0	2220.6	1925.8	1648.6	1390.5	1159.2	943.2	743.5	569.3
40°	3636.1	3189.0	2792.6	2432.8	2095.5	1782.9	1510.8	1256.4	1019.8	803.8	618.6
37.5°	3988.2	3492.9	3044.7	2635.9	2264.0	1931.7	1627.3	1349.0	1095.5	868.3	665.6
35°	4369.4	3807.4	3285.3	2845.5	2442.4	2073.2	1737.8	1441.5	1174.2	929.5	710.0
32.5°	4735.9	4119.6	3558.4	3056.7	2611.3	2207.0	1852.7	1535.8	1248.4	987.1	751.9
30°	5136.5	4442.0	3820.1	3255.5	2777.1	2350.6	1966.8	1624.2	1317.9	1041.0	792.8
27.5°	5529.4	4744.3	4072.4	3470.5	2947.7	2486.0	2073.2	1706.4	1382.5	1093.7	836.4
25°	5909.5	5067.3	4332.0	3679.8	3105.7	2611.3	2171.5	1782.9	1447.4	1146.3	876.6
22.5°	6295.0	5379.2	4570.5	3871.9	3250.4	2726.3	2268.2	1863.7	1509.3	1194.3	913.2
20°	6645.9	5662.6	4786.9	4050.5	3397.7	2845.5	2362.1	1936.7	1565.1	1237.5	946.2
17.5°	6969.3	5933.5	5013.1	4227.9	3539.6	2951.8	2445.6	2001.6	1614.7	1276.0	975.5
15°	7293.3	6188.0	5217.6	4383.2	3663.8	3044.7	2518.5	2058.3	1658.0	1309.5	1001.0
12.5°	7571.0	6405.8	5392.3	4515.8	3769.7	3123.8	2580.7	2106.5	1694.8	1338.0	1022.8
10°	7800.6	6585.7	5536.5	4625.2	3857.0	3189.0	2631.8	2146.2	1725.1	1361.4	1040.6
7.5°	7980.8	6726.6	5649.5	4710.7	3925.3	3240.0	2671.8	2177.2	1748.7	1379.7	1054.5
5°	8110.3	6827.9	5730.6	4772.1	3974.2	3276.5	2700.4	2199.4	1765.6	1392.8	1064.5
2.5°	8188.3	6888.9	5779.4	4809.1	4003.7	3298.5	2717.7	2212.7	1775.8	1400.7	1070.5
0°	8214.4	6909.3	5795.7	4821.4	4013.5	3305.8	2723.4	2217.2	1779.2	1403.3	1072.5
-2.5°	8188.3	6888.9	5779.4	4809.1	4003.7	3298.5	2717.7	2212.7	1775.8	1400.7	1070.5
-5°	8110.3	6827.9	5730.6	4772.1	3974.2	3276.5	2700.4	2199.4	1765.6	1392.8	1064.5
-7.5°	7980.8	6726.6	5649.5	4710.7	3925.3	3240.0	2671.8	2177.2	1748.7	1379.7	1054.5
-10°	7800.6	6585.7	5536.5	4625.2	3857.0	3189.0	2631.8	2146.2	1725.1	1361.4	1040.6
-12.5°	7571.0	6405.8	5392.3	4515.8	3769.7	3123.8	2580.7	2106.5	1694.8	1338.0	1022.8
-15°	7293.3	6188.0	5217.6	4383.2	3663.8	3044.7	2518.5	2058.3	1658.0	1309.5	1001.0
-17.5°	6969.3	5933.5	5013.1	4227.9	3539.6	2951.8	2445.6	2001.6	1614.7	1276.0	975.5
-20°	6645.9	5662.6	4786.9	4050.5	3397.7	2845.5	2362.1	1936.7	1565.1	1237.5	946.2



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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°	6295.0	5379.2	4570.5	3871.9	3250.4	2726.3	2268.2	1863.7	1509.3	1194.3	913.2
-25°	5909.5	5067.3	4332.0	3679.8	3105.7	2611.3	2171.5	1782.9	1447.4	1146.3	876.6
-27.5°	5529.4	4744.3	4072.4	3470.5	2947.7	2486.0	2073.2	1706.4	1382.5	1093.7	836.4
-30°	5136.5	4442.0	3820.1	3255.5	2777.1	2350.6	1966.8	1624.2	1317.9	1041.0	792.8
-32.5°	4735.9	4119.6	3558.4	3056.7	2611.3	2207.0	1852.7	1535.8	1248.4	987.1	751.9
-35°	4369.4	3807.4	3285.3	2845.5	2442.4	2073.2	1737.8	1441.5	1174.2	929.5	710.0
-37.5°	3988.2	3492.9	3044.7	2635.9	2264.0	1931.7	1627.3	1349.0	1095.5	868.3	665.6
-40°	3636.1	3189.0	2792.6	2432.8	2095.5	1782.9	1510.8	1256.4	1019.8	803.8	618.6
-42.5°	3276.5	2907.1	2555.0	2220.6	1925.8	1648.6	1390.5	1159.2	943.2	743.5	569.3
-45°	2964.8	2629.0	2317.8	2029.3	1753.5	1509.3	1278.5	1059.4	863.2	684.4	521.6
-47.5°	2653.8	2366.7	2091.9	1831.6	1596.4	1369.2	1162.1	966.7	780.2	622.7	477.5
-50°	2366.7	2112.9	1873.1	1649.1	1434.0	1237.5	1045.3	870.5	708.1	558.7	431.7
-52.5°	2091.9	1873.1	1666.7	1469.0	1283.2	1101.7	935.9	772.9	633.5	501.0	384.3
-55°	1831.6	1649.1	1469.0	1298.4	1132.0	975.5	823.4	687.6	556.7	445.1	336.6
-57.5°	1596.4	1434.0	1283.2	1132.0	988.7	849.7	720.2	599.9	488.9	387.6	297.4
-60°	1369.2	1237.5	1101.7	975.5	849.7	731.1	621.6	515.4	422.7	331.3	257.3
-62.5°	1162.1	1045.3	935.9	823.4	720.2	621.6	524.3	440.3	354.9	284.4	216.1
-65°	966.7	870.5	772.9	687.6	599.9	515.4	440.3	363.7	298.0	236.5	178.1
-67.5°	780.2	708.1	633.5	556.7	488.9	422.7	354.9	298.0	243.3	187.7	149.2
-70°	622.7	558.7	501.0	445.1	387.6	331.3	284.4	236.5	187.7	153.8	119.8
-72.5°	477.5	431.7	384.3	336.6	297.4	257.3	216.1	178.1	149.2	119.8	90.0
-75°	346.4	314.6	283.1	250.5	216.9	183.7	159.9	135.5	110.7	85.5	70.0
-77.5°	242.5	217.1	190.8	171.0	152.1	132.7	112.9	92.5	76.5	65.0	53.2
-80°	154.6	140.9	126.7	112.0	96.9	81.8	73.0	64.1	55.0	45.8	36.4
-82.5°	84.7	77.9	72.1	66.1	59.9	53.5	46.9	40.2	33.4	26.4	22.6
-85°	45.1	41.4	37.5	33.4	29.3	25.1	23.2	21.2	19.2	17.2	15.1
-87.5°	17.0	16.1	15.3	14.4	13.5	12.5	11.6	10.6	9.6	8.6	7.5
-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°	6.5	5.4	4.4	3.3	2.2	1.1	0.0
85°	13.0	10.9	8.7	6.5	4.4	2.2	0.0
82.5°	19.4	16.3	13.0	9.8	6.5	3.3	0.0
80°	26.8	21.6	17.3	13.0	8.7	4.4	0.0
77.5°	41.3	29.3	21.6	16.3	10.9	5.4	0.0
75°	55.7	41.3	26.8	19.4	13.0	6.5	0.0
72.5°	70.0	53.2	36.4	22.6	15.1	7.5	0.0
70°	85.5	65.0	45.8	26.4	17.2	8.6	0.0
67.5°	110.7	76.5	55.0	33.4	19.2	9.6	0.0
65°	135.5	92.5	64.1	40.2	21.2	10.6	0.0
62.5°	159.9	112.9	73.0	46.9	23.2	11.6	0.0
60°	183.7	132.7	81.8	53.5	25.1	12.5	0.0
57.5°	216.9	152.1	96.9	59.9	29.3	13.5	0.0
55°	250.5	171.0	112.0	66.1	33.4	14.4	0.0
52.5°	283.1	190.8	126.7	72.1	37.5	15.3	0.0
50°	314.6	217.1	140.9	77.9	41.4	16.1	0.0
47.5°	346.4	242.5	154.6	84.7	45.1	17.0	0.0
45°	384.1	266.9	167.8	94.5	48.7	17.7	0.0
42.5°	420.3	290.3	180.4	104.0	52.1	18.5	0.0
40°	454.8	312.6	195.3	113.0	55.4	19.2	0.0
37.5°	487.6	333.8	212.2	121.5	58.6	19.9	0.0
35°	518.7	357.7	228.3	129.6	61.5	20.6	0.0
32.5°	549.8	381.9	243.3	137.2	64.3	21.2	0.0
30°	583.2	404.6	257.4	144.3	66.9	21.7	0.0
27.5°	614.2	425.6	270.4	150.9	69.3	22.3	0.0
25°	642.7	445.0	282.4	157.0	71.5	22.7	0.0
22.5°	668.7	462.7	293.4	162.5	73.5	23.2	0.0
20°	692.2	478.6	303.2	167.4	75.3	23.6	0.0
17.5°	713.0	492.7	311.9	171.9	76.9	23.9	0.0
15°	731.1	505.0	319.6	175.7	78.3	24.2	0.0
12.5°	746.5	515.4	326.0	178.9	79.5	24.5	0.0
10°	759.2	524.0	331.3	181.6	80.5	24.7	0.0
7.5°	769.1	530.7	335.5	183.7	81.2	24.9	0.0
5°	776.1	535.5	338.4	185.2	81.8	25.0	0.0
2.5°	780.4	538.3	340.2	186.1	82.1	25.1	0.0
0°	781.8	539.3	340.8	186.4	82.2	25.1	0.0
-2.5°	780.4	538.3	340.2	186.1	82.1	25.1	0.0
-5°	776.1	535.5	338.4	185.2	81.8	25.0	0.0
-7.5°	769.1	530.7	335.5	183.7	81.2	24.9	0.0
-10°	759.2	524.0	331.3	181.6	80.5	24.7	0.0
-12.5°	746.5	515.4	326.0	178.9	79.5	24.5	0.0
-15°	731.1	505.0	319.6	175.7	78.3	24.2	0.0
-17.5°	713.0	492.7	311.9	171.9	76.9	23.9	0.0
-20°	692.2	478.6	303.2	167.4	75.3	23.6	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	668.7	462.7	293.4	162.5	73.5	23.2	0.0
-25°	642.7	445.0	282.4	157.0	71.5	22.7	0.0
-27.5°	614.2	425.6	270.4	150.9	69.3	22.3	0.0
-30°	583.2	404.6	257.4	144.3	66.9	21.7	0.0
-32.5°	549.8	381.9	243.3	137.2	64.3	21.2	0.0
-35°	518.7	357.7	228.3	129.6	61.5	20.6	0.0
-37.5°	487.6	333.8	212.2	121.5	58.6	19.9	0.0
-40°	454.8	312.6	195.3	113.0	55.4	19.2	0.0
-42.5°	420.3	290.3	180.4	104.0	52.1	18.5	0.0
-45°	384.1	266.9	167.8	94.5	48.7	17.7	0.0
-47.5°	346.4	242.5	154.6	84.7	45.1	17.0	0.0
-50°	314.6	217.1	140.9	77.9	41.4	16.1	0.0
-52.5°	283.1	190.8	126.7	72.1	37.5	15.3	0.0
-55°	250.5	171.0	112.0	66.1	33.4	14.4	0.0
-57.5°	216.9	152.1	96.9	59.9	29.3	13.5	0.0
-60°	183.7	132.7	81.8	53.5	25.1	12.5	0.0
-62.5°	159.9	112.9	73.0	46.9	23.2	11.6	0.0
-65°	135.5	92.5	64.1	40.2	21.2	10.6	0.0
-67.5°	110.7	76.5	55.0	33.4	19.2	9.6	0.0
-70°	85.5	65.0	45.8	26.4	17.2	8.6	0.0
-72.5°	70.0	53.2	36.4	22.6	15.1	7.5	0.0
-75°	55.7	41.3	26.8	19.4	13.0	6.5	0.0
-77.5°	41.3	29.3	21.6	16.3	10.9	5.4	0.0
-80°	26.8	21.6	17.3	13.0	8.7	4.4	0.0
-82.5°	19.4	16.3	13.0	9.8	6.5	3.3	0.0
-85°	13.0	10.9	8.7	6.5	4.4	2.2	0.0
-87.5°	6.5	5.4	4.4	3.3	2.2	1.1	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

