

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: P731421 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-70-5S-VHE**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731421 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-5)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-57-70-5S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 5S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

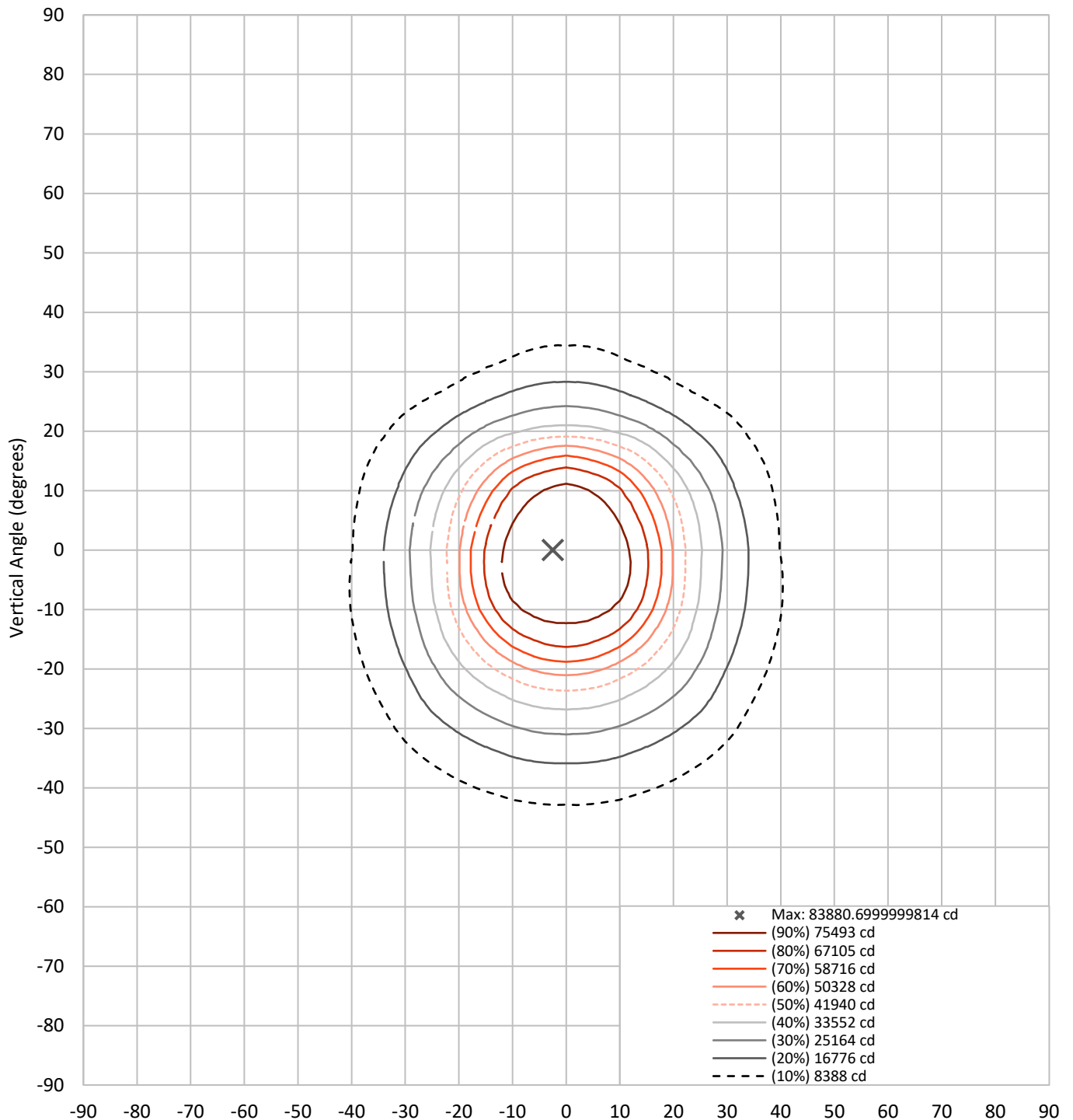
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	54617.7 lumens	Max Intensity:	83880.7 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	157.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	44.5°H x 42.5°V	Field Angle (10%):	79.6°H x 77.3°V
Beam Lumens:	29990.3 lumens	Field Lumens:	50187 lumens
Beam Efficiency:	54.9%	Field Efficiency:	91.9%

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





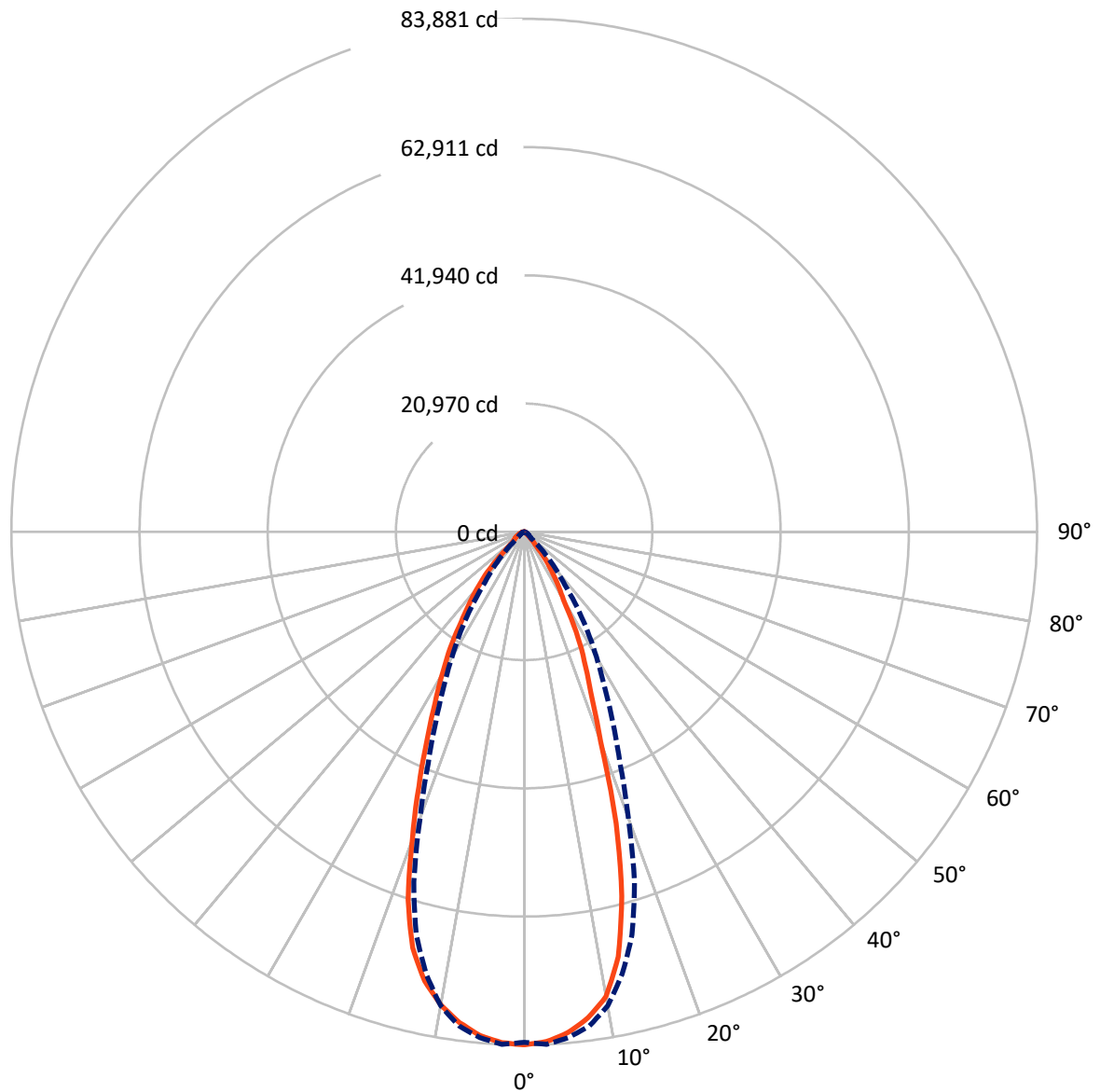
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Lumen Table

90																
80	0.2	0.8		1.4		1.9		2.1		1.9		1.4		0.8		0.2
70																
60	0.2	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.5	0.4	0.4	0.3	0.2	0.1	0.2
50		0.3	0.5	0.8	0.8	0.6	0.7	0.8	0.8	0.7	0.6	0.8	0.8	0.5	0.3	
40	0.6	0.7	1.6	3.3	5.9	12.0	26.5	35.7	35.7	26.5	12.0	5.9	3.3	1.6	0.7	0.6
30		1.6	5.4	11.1	28.1	83.4	154.4	227.5	227.5	154.4	83.4	28.1	11.1	5.4	1.6	
20	1.3	2.8	9.4	24.0	115.6	273.3	502.5	689.9	689.9	502.5	273.3	115.6	24.0	9.4	2.8	1.3
10		3.9	12.6	54.4	252.5	624.3	1214.7	1735.9	1735.9	1214.7	624.3	252.5	54.4	12.6	3.9	
0	2.0	4.8	14.8	82.5	355.5	906.5	1818.7	2412.6	2412.6	1818.7	906.5	355.5	82.5	14.8	4.8	2.0
-10		5.4	16.5	87.9	383.1	950.7	1929.4	2450.3	2450.3	1929.4	950.7	383.1	87.9	16.5	5.4	
-20	2.4	5.5	17.4	72.5	326.2	794.5	1496.6	2020.8	2020.8	1496.6	794.5	326.2	72.5	17.4	5.5	2.4
-30		5.3	17.4	45.0	211.5	526.0	874.7	1133.9	1133.9	874.7	526.0	211.5	45.0	17.4	5.3	
-40	2.4	4.7	15.2	32.4	86.1	255.9	430.6	547.0	547.0	430.6	255.9	86.1	32.4	15.2	4.7	2.4
-50		4.0	11.3	24.5	41.5	67.9	127.0	178.1	178.1	127.0	67.9	41.5	24.5	11.3	4.0	
-60	2.1	3.2	7.5	15.4	27.2	38.1	46.9	53.6	53.6	46.9	38.1	27.2	15.4	7.5	3.2	2.1
-70		2.6	5.0	8.7	14.1	19.2	24.5	28.2	28.2	24.5	19.2	14.1	8.7	5.0	2.6	
-80																
-90	1.6	9.6		21.1		33.2		40.7		33.2		21.1		9.6		1.6

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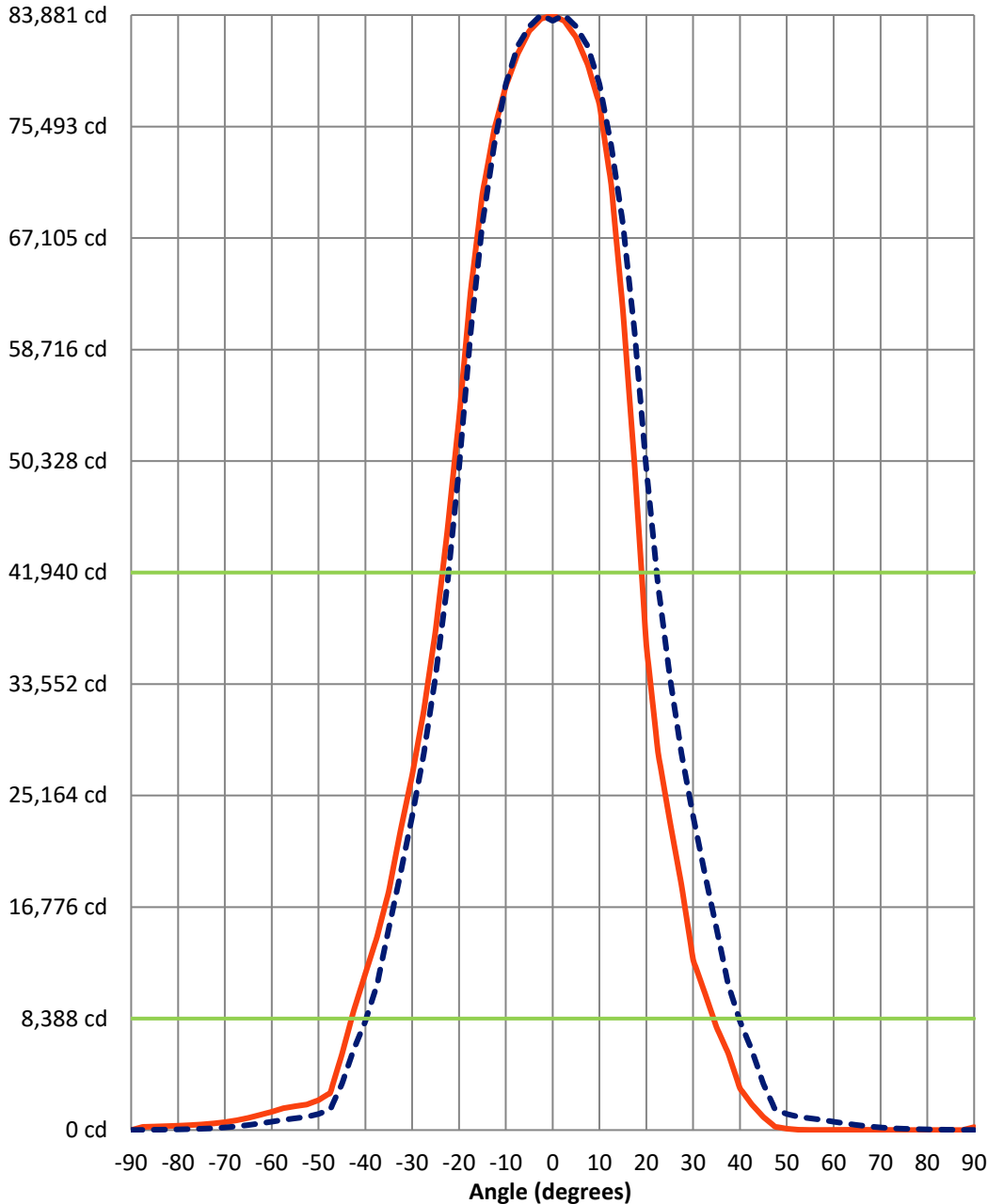
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 44.5°
 V Angle: 42.5°
 Lumens: 29990.3
 Efficiency: 54.9%

Field:
 H Angle: 79.6°
 V Angle: 77.3°
 Lumens: 50187
 Efficiency: 91.9%

Spill:
 Lumens: 4430.7
 Efficiency: 8.1%

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



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	7.3	14.2	21.1	34.9	48.8	61.6	74.5	85.1	95.6	103.2	110.7
87.5°	7.3	6.7	6.1	6.1	6.1	6.2	6.3	6.0	5.7	5.7	5.6
85°	7.3	6.9	6.3	6.3	6.4	6.5	6.6	6.4	6.2	6.0	5.8
82.5°	7.3	7.0	6.4	6.6	6.6	6.8	7.0	6.8	6.7	6.4	6.1
80°	7.3	7.2	6.6	6.8	6.9	7.1	7.3	7.2	7.1	6.8	6.5
77.5°	7.3	7.3	6.8	7.0	7.1	7.4	7.7	7.6	7.6	7.3	6.8
75°	7.3	7.5	7.0	7.2	7.4	7.9	8.1	8.0	8.0	7.6	7.2
72.5°	7.3	7.6	7.2	7.5	7.9	8.3	8.5	8.5	8.3	7.9	7.5
70°	7.3	7.8	7.5	7.7	8.3	8.8	8.9	8.9	8.7	8.3	8.1
67.5°	7.3	8.0	7.7	8.1	8.8	9.3	9.4	9.5	9.2	9.0	8.8
65°	7.3	8.1	7.9	8.5	9.3	9.8	10.0	10.0	10.0	9.8	9.8
62.5°	7.3	8.3	8.2	8.9	9.7	10.3	10.6	10.9	11.0	10.8	11.4
60°	7.3	8.4	8.4	9.3	10.2	10.9	11.2	11.9	12.0	13.0	13.2
57.5°	7.3	8.6	8.9	9.6	10.9	11.4	12.5	13.0	14.8	15.8	16.8
55°	7.3	8.8	9.3	10.0	11.6	12.0	13.9	14.4	18.3	19.6	21.7
52.5°	7.3	8.9	9.8	10.4	12.4	12.8	15.5	18.1	22.3	25.6	27.1
50°	7.3	9.1	10.3	10.8	13.2	14.6	17.2	22.2	27.1	31.9	35.0
47.5°	7.3	9.2	10.8	11.2	14.1	16.5	19.3	26.3	33.3	38.6	43.9
45°	7.3	9.4	11.4	11.9	15.0	18.5	22.9	30.5	39.6	47.1	53.3
42.5°	7.3	9.6	12.0	12.7	16.0	20.6	26.6	35.6	46.1	56.1	67.5
40°	7.3	9.7	12.6	13.8	17.4	22.8	30.5	41.4	53.3	65.3	83.2
37.5°	7.3	9.9	13.2	15.1	19.1	25.1	34.7	47.4	61.7	76.4	99.9
35°	7.3	10.1	13.8	16.5	20.9	28.2	38.9	53.4	70.3	91.4	119.1
32.5°	7.3	10.2	14.5	17.8	22.7	31.5	43.5	59.7	79.1	106.7	141.0
30°	7.3	10.4	15.2	19.3	24.5	34.9	48.8	66.4	88.0	122.3	162.5
27.5°	7.3	10.5	15.9	20.7	26.9	38.2	54.0	73.6	98.1	138.0	183.5
25°	7.3	10.7	16.6	22.1	29.3	41.4	59.1	80.6	109.8	155.0	204.2
22.5°	7.3	10.8	17.3	23.6	31.7	44.8	64.0	87.3	120.9	169.5	226.0
20°	7.3	11.0	18.0	25.0	34.0	48.3	68.7	93.7	131.2	183.3	244.2
17.5°	7.3	11.1	18.7	26.4	36.3	51.8	73.5	99.7	140.9	196.2	261.4
15°	7.3	11.2	19.4	27.8	38.5	55.1	78.1	105.6	149.8	208.3	277.7
12.5°	7.3	11.4	20.1	29.2	40.7	58.2	82.4	111.4	158.7	219.4	293.0
10°	7.3	11.5	20.7	30.6	42.8	61.2	86.4	116.8	167.7	232.5	309.2
7.5°	7.3	11.6	21.4	31.9	44.7	64.0	90.1	121.9	175.9	245.2	328.5
5°	7.3	11.7	22.0	33.2	46.6	66.6	93.6	126.5	183.4	257.0	346.7
2.5°	7.3	11.8	22.6	34.4	48.4	69.0	96.7	130.7	190.0	267.6	363.4
0°	7.3	11.9	23.1	35.6	50.1	71.2	99.5	134.5	195.8	276.9	378.4
-2.5°	7.3	12.4	24.1	37.2	52.4	74.5	103.8	140.0	202.5	284.8	386.1
-5°	7.3	12.8	25.0	38.7	54.6	77.5	107.7	144.9	208.2	291.1	391.8
-7.5°	7.3	13.2	25.9	40.1	56.7	80.3	111.2	149.3	212.8	295.9	395.5
-10°	7.3	13.7	26.8	41.4	58.6	82.8	114.3	153.1	216.3	299.1	397.3
-12.5°	7.3	14.1	27.5	42.6	60.4	85.1	117.0	156.3	218.7	300.8	400.1
-15°	7.3	14.4	28.3	43.8	62.0	87.1	119.3	158.9	220.0	301.3	401.5
-17.5°	7.3	14.8	28.9	44.8	63.5	88.8	121.2	161.2	220.3	300.0	399.8
-20°	7.3	15.2	29.6	45.8	64.8	90.1	122.8	163.1	219.5	296.9	394.9



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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°	7.3	15.5	30.1	46.6	65.9	91.2	124.5	164.4	217.6	292.0	387.0
-25°	7.3	15.8	30.6	47.4	66.8	92.5	125.8	165.1	214.5	285.2	380.1
-27.5°	7.3	16.1	31.0	48.0	67.5	93.7	126.5	165.2	210.2	280.7	375.0
-30°	7.3	16.3	31.4	48.5	68.1	94.6	126.7	164.8	208.5	277.0	367.1
-32.5°	7.3	16.5	31.6	48.9	69.3	95.2	126.5	164.4	208.3	271.5	356.1
-35°	7.3	16.7	31.9	49.2	70.3	95.5	126.5	163.7	207.1	264.0	342.1
-37.5°	7.3	16.9	32.0	49.4	71.0	95.8	126.5	162.7	204.9	254.6	329.4
-40°	7.3	17.1	32.1	49.4	71.6	96.5	126.1	161.0	201.7	249.0	317.1
-42.5°	7.3	17.2	32.1	49.6	72.1	97.0	125.4	158.7	198.5	244.3	302.8
-45°	7.3	17.3	32.0	49.8	72.5	97.3	124.3	156.4	194.9	238.2	287.7
-47.5°	7.3	17.3	31.9	50.0	72.6	97.3	122.8	154.5	190.6	230.9	279.3
-50°	7.3	17.3	31.7	50.0	72.5	97.0	122.2	152.1	185.1	224.4	269.3
-52.5°	7.3	17.3	31.4	49.9	72.2	96.5	121.5	149.2	180.4	216.6	257.3
-55°	7.3	17.3	31.1	49.7	71.6	95.6	120.5	146.0	175.8	207.6	245.2
-57.5°	7.3	17.2	30.7	49.3	70.8	94.5	119.2	144.3	170.5	200.6	232.0
-60°	7.3	17.2	30.2	48.8	69.8	93.0	117.5	142.0	165.2	193.6	219.4
-62.5°	7.3	17.0	29.8	48.2	68.8	91.3	115.3	139.2	161.8	185.5	209.4
-65°	7.3	16.9	29.3	47.4	67.6	89.4	112.8	136.0	158.0	179.3	198.7
-67.5°	7.3	16.7	28.7	46.5	66.2	87.3	110.0	132.1	153.8	173.4	190.4
-70°	7.3	16.5	28.1	45.5	64.7	84.9	106.9	127.8	148.6	167.0	182.9
-72.5°	7.3	16.3	27.4	44.5	63.0	82.3	103.1	123.2	142.9	159.8	175.0
-75°	7.3	16.1	26.7	43.4	61.1	79.4	99.0	117.9	136.9	152.3	166.6
-77.5°	7.3	15.8	25.8	42.3	59.3	76.2	94.5	112.0	129.8	144.3	157.9
-80°	7.3	15.5	25.0	41.0	57.5	73.4	89.7	105.9	122.3	135.2	147.8
-82.5°	7.3	15.2	24.1	39.6	55.5	70.7	86.1	100.1	114.5	125.8	137.0
-85°	7.3	14.9	23.1	38.1	53.4	67.8	82.4	95.2	108.3	117.8	127.2
-87.5°	7.3	14.6	22.1	36.6	51.1	64.8	78.5	90.2	102.1	110.5	119.0
-90°	7.3	6.6	5.9	5.9	5.9	5.9	5.9	5.6	5.3	5.3	5.3



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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°	115.4	120.0	124.3	128.5	133.8	139.1	144.7	150.3	156.3	162.2	167.8
87.5°	5.3	5.0	5.0	5.0	4.7	4.4	4.2	4.0	3.7	3.3	3.2
85°	5.6	5.3	5.3	5.3	5.0	4.8	4.5	4.3	4.0	3.7	3.7
82.5°	6.0	6.0	5.7	5.3	5.2	5.3	5.0	4.6	4.4	4.2	4.1
80°	6.4	6.6	6.1	5.6	5.4	5.3	5.0	4.7	4.6	4.6	4.4
77.5°	6.7	6.6	6.3	5.9	5.7	5.5	5.3	5.1	4.9	4.7	4.6
75°	6.9	6.7	6.5	6.1	5.8	5.8	5.7	5.6	5.4	5.4	5.4
72.5°	7.3	7.1	6.8	6.2	6.1	6.2	6.2	6.0	6.2	6.5	6.5
70°	7.9	7.6	7.2	6.7	6.5	6.7	7.0	7.5	8.0	8.1	8.7
67.5°	8.5	8.3	7.6	7.3	7.1	7.5	7.9	9.6	11.1	11.9	12.8
65°	9.5	9.0	8.4	8.3	7.9	9.5	10.9	12.6	15.7	17.3	17.2
62.5°	10.6	10.7	9.9	10.1	11.4	12.9	15.3	18.9	22.6	24.0	22.7
60°	13.4	13.1	13.1	14.0	15.4	17.2	20.9	25.3	29.6	31.9	28.4
57.5°	17.2	17.1	18.1	18.6	20.6	21.2	26.1	31.7	35.3	38.0	33.5
55°	22.5	22.7	24.6	25.2	26.7	26.6	30.9	36.1	39.9	41.1	36.4
52.5°	29.9	30.3	33.7	34.2	33.8	34.2	35.8	41.4	44.5	44.6	40.5
50°	38.0	42.2	44.4	45.9	43.3	44.9	43.4	49.7	54.3	53.9	55.4
47.5°	50.0	55.7	58.9	61.2	59.2	64.1	63.1	72.7	76.0	94.1	96.9
45°	64.3	73.3	77.6	82.7	88.3	94.3	109.6	109.7	152.5	169.4	213.8
42.5°	80.3	93.8	105.5	107.6	136.0	152.6	173.5	216.4	258.2	310.8	330.8
40°	101.5	116.5	140.3	167.1	198.6	234.6	273.6	325.6	380.6	407.8	411.1
37.5°	124.9	153.3	186.4	235.0	283.4	330.7	380.1	431.0	470.6	480.6	517.5
35°	150.2	191.7	253.5	309.3	365.7	431.0	474.9	521.8	545.6	587.2	658.2
32.5°	181.9	231.1	307.9	380.6	443.2	514.3	556.3	592.2	648.1	720.2	877.0
30°	215.1	275.6	353.3	437.2	514.3	573.9	621.7	666.8	754.2	928.6	1466.2
27.5°	242.7	313.8	395.5	489.0	577.0	631.3	685.6	764.3	920.5	1279.8	2299.6
25°	267.4	344.7	436.8	545.4	631.6	691.4	762.0	873.2	1118.2	2093.2	3400.1
22.5°	291.6	375.1	484.1	604.7	686.9	750.4	857.4	1058.2	1571.5	2942.3	4513.0
20°	316.5	413.9	535.4	659.8	739.9	802.8	940.7	1237.9	2288.7	3856.3	5495.0
17.5°	342.6	453.1	585.3	699.0	774.0	857.6	1028.6	1385.2	2887.3	4710.0	6544.3
15°	368.2	490.7	628.0	732.8	805.1	916.8	1146.6	1819.8	3520.3	5663.2	7666.2
12.5°	392.6	524.8	661.1	759.3	835.8	972.0	1243.5	2298.7	4281.5	6548.3	8641.6
10°	415.7	555.5	688.9	784.4	869.2	1030.8	1336.9	2767.5	4947.8	7123.4	9243.6
7.5°	439.4	580.9	712.5	808.3	901.4	1086.3	1439.7	3131.7	5445.4	7565.9	9708.7
5°	460.8	600.5	735.1	835.0	934.5	1135.5	1522.8	3410.1	5818.7	7931.4	10123.0
2.5°	479.6	615.9	754.3	860.2	966.9	1176.8	1546.7	3487.5	5994.1	8128.1	10530.5
0°	495.7	627.5	769.9	882.6	996.0	1210.3	1553.0	3473.9	6037.4	8187.7	10927.2
-2.5°	504.8	642.5	797.8	914.8	1022.1	1237.3	1585.9	3479.0	6074.1	8605.0	11437.4
-5°	511.2	653.8	820.7	943.3	1045.1	1256.3	1604.1	3399.9	6024.5	8824.7	11586.6
-7.5°	514.8	660.9	837.5	967.0	1066.1	1270.1	1614.5	3271.3	6027.3	8834.7	11399.0
-10°	516.7	667.6	845.4	980.4	1084.1	1276.7	1609.5	3050.4	5788.0	8595.6	11090.0
-12.5°	522.9	673.8	848.2	990.2	1098.5	1278.2	1616.9	2834.3	5339.2	8160.2	10648.3
-15°	525.3	675.5	846.6	998.4	1121.7	1293.8	1617.1	2498.5	4756.5	7607.8	10092.8
-17.5°	523.7	672.4	841.8	1010.1	1143.1	1295.1	1580.4	2058.2	4091.0	6821.9	9361.4
-20°	518.0	665.4	831.3	1015.9	1155.3	1305.8	1569.6	1986.7	3438.8	5839.3	8473.3



REPORT NUMBER: P731421 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-5S-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	509.7	654.6	816.2	1003.1	1169.3	1329.3	1555.0	1891.6	2671.8	4716.9	7373.9
-25°	499.8	642.7	800.0	988.3	1175.8	1344.4	1509.4	1764.6	2221.5	3756.5	6013.1
-27.5°	489.5	625.7	782.8	963.9	1171.9	1337.2	1482.5	1694.2	2017.1	2689.5	4595.4
-30°	476.4	605.4	757.5	932.1	1137.2	1315.1	1466.1	1603.1	1823.6	2227.7	3371.8
-32.5°	460.4	581.5	729.3	896.0	1084.8	1288.6	1428.3	1547.4	1715.3	1962.9	2432.4
-35°	442.3	560.4	697.9	850.3	1022.8	1222.2	1371.4	1497.4	1610.8	1801.4	2101.6
-37.5°	423.8	534.4	657.5	802.0	966.2	1129.1	1305.1	1430.6	1545.0	1664.6	1878.4
-40°	402.3	502.1	617.4	751.0	890.2	1038.0	1201.3	1358.5	1471.5	1596.2	1724.4
-42.5°	378.7	471.4	574.4	690.3	815.2	948.1	1093.0	1250.5	1401.9	1521.1	1638.9
-45°	359.7	438.2	528.7	631.9	739.4	857.6	989.8	1127.7	1288.5	1442.8	1551.8
-47.5°	336.7	405.2	488.6	570.4	667.8	773.2	886.1	1016.8	1151.5	1303.5	1452.6
-50°	314.7	377.5	441.6	515.4	598.1	690.7	791.4	906.4	1031.0	1155.6	1290.8
-52.5°	299.7	347.7	402.3	460.6	532.8	612.2	701.4	799.0	908.3	1017.1	1134.3
-55°	283.1	324.7	364.0	413.3	470.1	539.0	616.4	701.8	785.1	884.4	983.9
-57.5°	267.0	301.5	333.0	370.8	418.3	468.9	539.3	610.3	682.7	759.6	843.7
-60°	250.7	278.9	306.5	337.0	371.6	416.4	465.3	524.7	583.9	645.4	719.8
-62.5°	234.4	257.3	281.0	307.4	336.8	367.0	407.0	450.3	491.7	547.7	607.0
-65°	221.2	237.0	256.6	279.8	303.5	331.2	359.1	386.2	422.5	465.0	508.0
-67.5°	207.1	221.9	236.3	252.6	274.1	296.9	319.9	344.2	368.9	398.0	429.4
-70°	196.8	207.3	220.1	233.6	247.7	264.2	284.7	304.8	325.6	349.9	374.9
-72.5°	187.1	196.8	206.3	215.7	228.4	242.1	255.7	269.2	286.5	307.2	327.2
-75°	177.1	186.0	194.8	203.3	212.9	223.1	233.8	246.0	259.4	273.8	287.6
-77.5°	166.9	174.8	182.8	190.7	199.4	208.5	217.8	227.1	237.7	248.8	259.6
-80°	156.0	163.4	170.5	177.6	185.5	193.5	201.8	210.2	219.5	229.1	238.1
-82.5°	144.1	150.6	157.2	163.8	171.1	178.3	185.6	193.0	201.2	209.6	217.2
-85°	132.6	137.6	143.5	149.3	155.9	162.5	169.1	175.6	183.2	190.7	197.3
-87.5°	124.0	128.9	133.6	138.3	144.0	149.6	155.4	161.0	167.6	174.2	180.0
-90°	5.0	4.6	4.6	4.6	4.3	4.0	4.0	4.0	3.7	3.3	3.0



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	173.4	177.0	180.6	183.6	186.5	190.5	194.5	199.8	205.0	210.3	215.6
87.5°	3.2	2.9	2.6	2.6	2.5	2.6	2.6	2.3	2.0	2.0	2.0
85°	3.7	3.7	3.6	3.4	3.2	3.2	3.2	3.2	3.2	2.9	2.6
82.5°	4.0	4.0	4.0	3.7	3.3	3.3	3.3	3.3	3.3	3.0	2.6
80°	4.2	4.1	4.0	3.9	3.8	3.6	3.3	3.0	2.7	2.6	2.6
77.5°	4.7	4.5	4.3	4.2	4.0	3.7	3.4	3.0	2.6	2.6	2.6
75°	5.3	5.1	5.0	4.7	4.4	4.2	4.2	4.0	3.8	3.8	3.9
72.5°	6.4	6.3	6.2	6.4	6.4	6.6	6.9	7.2	7.5	8.0	8.6
70°	9.5	10.1	10.4	10.6	10.6	10.5	10.5	10.6	11.0	11.3	11.5
67.5°	13.9	14.9	15.5	15.7	14.7	14.1	14.2	14.5	15.0	15.9	17.3
65°	18.1	17.8	17.3	17.0	17.1	17.2	17.1	17.3	18.2	19.6	21.3
62.5°	21.3	18.4	16.7	15.9	16.5	17.5	16.7	16.2	17.0	17.8	18.7
60°	24.3	19.0	15.2	14.0	13.8	14.2	13.1	12.0	12.3	12.6	13.1
57.5°	27.2	20.3	14.1	12.0	10.1	9.1	8.8	8.4	8.2	8.0	8.1
55°	29.8	22.1	13.8	12.3	10.9	10.6	9.7	9.2	8.9	8.7	8.9
52.5°	33.0	28.5	22.7	21.1	23.8	24.0	21.2	25.2	28.2	29.6	30.1
50°	54.0	48.4	58.1	57.2	68.6	76.6	73.8	82.7	96.0	104.4	107.9
47.5°	118.8	119.0	138.2	155.2	169.2	187.6	201.8	215.4	234.4	246.2	251.5
45°	225.4	244.6	264.6	293.8	321.8	355.8	396.8	429.0	558.3	687.1	804.2
42.5°	345.0	366.0	395.4	458.9	534.4	709.2	1021.6	1196.1	1413.8	1650.8	1741.7
40°	444.5	475.1	555.6	734.5	1170.2	1585.0	2040.7	2426.0	2767.1	2963.3	3127.3
37.5°	567.5	640.4	1007.1	1513.5	2055.1	2575.0	3044.3	3451.5	3804.9	4091.6	4375.4
35°	746.7	1231.1	1772.8	2431.2	3006.9	3488.6	3974.8	4441.4	4842.2	5270.4	5906.6
32.5°	1415.6	2048.6	2745.5	3335.6	3898.3	4506.0	5016.9	5763.5	6348.2	7128.8	8321.8
30°	2272.1	3066.6	3698.5	4288.7	5010.4	5828.1	6681.1	7823.0	9016.3	10261.1	11542.0
27.5°	3371.8	4174.3	4840.5	5627.8	6580.6	7668.8	9299.8	10909.3	12620.7	14177.3	15360.2
25°	4697.3	5547.2	6685.9	7828.3	9191.8	11051.5	12883.9	14856.1	16571.8	18099.3	19809.3
22.5°	5939.7	7332.8	8836.5	10561.1	12781.5	14878.9	17144.5	19140.3	21293.5	23470.7	25154.5
20°	6988.5	8803.4	10960.5	13446.6	15907.8	18283.7	20920.3	24101.5	27306.9	30170.7	32248.8
17.5°	8403.2	10701.7	13386.8	16341.9	18991.6	21936.0	25605.4	29738.8	34230.4	38204.6	41355.7
15°	9949.1	12633.0	15669.0	18765.5	22117.7	26063.1	30781.5	36060.2	41554.4	47127.0	52318.7
12.5°	11000.0	14144.5	17459.8	21141.5	25322.7	30612.6	36341.9	42193.7	48472.5	55406.1	61428.5
10°	11898.4	15386.9	19386.6	23669.2	28473.6	34160.1	40081.6	47189.4	55026.6	61854.6	68305.2
7.5°	12787.0	16886.2	21064.3	25523.4	30801.9	36978.1	43986.3	51630.5	59606.3	67027.9	72303.1
5°	13838.5	18091.2	22269.1	26979.4	32507.1	38931.5	46323.6	55101.7	63505.0	70327.0	75084.9
2.5°	14707.9	18814.1	23092.1	27754.0	33435.1	40142.8	48165.7	57920.6	66543.3	72922.1	77227.4
0°	15150.6	19277.1	23609.9	28347.4	34171.2	41015.5	49768.8	60016.4	68165.8	74058.5	78669.2
-2.5°	15204.6	19129.9	23382.9	28055.4	33747.3	40727.3	49700.9	60069.5	68588.1	74712.8	79261.8
-5°	15047.4	18936.0	23180.8	27856.2	33471.2	40741.8	49751.8	59722.0	67953.4	74297.5	78581.5
-7.5°	14668.5	18580.0	22832.6	27439.1	32965.9	40017.2	48420.6	57458.0	65924.8	72779.5	76731.5
-10°	14113.3	17956.6	22143.6	26553.4	31765.5	38284.8	45800.1	54074.0	62629.7	69183.7	73741.3
-12.5°	13411.1	17048.5	21051.0	25220.1	30141.0	36214.9	42914.0	49842.1	57014.1	64486.0	69233.0
-15°	12605.0	15928.7	19675.3	23866.8	28731.8	33793.8	39115.1	44759.5	51315.9	57427.8	62953.4
-17.5°	11840.1	14702.6	18198.4	22282.2	26425.0	30823.3	35383.9	39992.2	45249.8	50047.4	54339.3
-20°	10878.8	13316.2	16537.2	20165.8	24015.4	27826.4	31743.6	35477.2	39294.0	43199.1	46607.7



REPORT NUMBER: P731421 (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°	9745.8	12116.2	14803.5	17963.0	21658.7	25050.6	28187.9	31105.7	34165.0	36867.1	39672.3
-25°	8511.5	10790.6	13260.2	16140.3	18977.9	22052.9	24656.8	27138.1	29511.1	31632.8	33814.2
-27.5°	6995.9	9401.8	11836.2	14141.3	16482.8	18690.7	21118.5	23407.8	25386.8	27137.2	28866.1
-30°	5288.3	7842.1	10144.8	12122.2	13978.5	15820.0	17678.7	19599.7	21473.1	23067.1	24483.1
-32.5°	3901.9	6032.2	8160.7	10098.4	11723.1	13245.0	14690.5	16197.7	17508.1	18853.5	20163.0
-35°	2581.5	4087.2	5854.2	7824.1	9516.3	10796.6	12107.3	13308.9	14296.7	15339.8	16328.4
-37.5°	2172.6	2573.2	3755.3	5354.6	6921.8	8394.2	9701.2	10745.8	11655.0	12488.2	13342.0
-40°	1916.5	2145.1	2481.3	3062.4	4380.4	5675.7	7022.2	8132.6	9101.1	9899.8	10685.9
-42.5°	1748.4	1905.2	2072.8	2301.6	2527.1	3161.5	4266.9	5225.3	6133.7	7033.5	7843.4
-45°	1661.2	1749.3	1845.1	1969.6	2066.0	2238.0	2429.9	2610.3	3333.3	4114.6	4768.6
-47.5°	1556.8	1650.7	1722.3	1780.9	1827.8	1903.3	1983.1	2087.4	2254.8	2452.2	2602.8
-50°	1423.3	1537.2	1608.7	1667.5	1701.1	1730.3	1759.1	1824.5	1915.1	2022.7	2108.1
-52.5°	1250.6	1363.4	1464.5	1541.0	1578.2	1614.5	1650.6	1695.6	1747.2	1809.3	1853.9
-55°	1087.9	1182.1	1269.6	1340.9	1405.1	1463.6	1519.9	1567.5	1623.2	1682.3	1723.8
-57.5°	933.4	1009.5	1081.3	1143.0	1198.6	1247.9	1305.4	1368.0	1439.1	1506.9	1554.6
-60°	789.1	849.5	909.3	959.4	1004.7	1045.0	1098.3	1150.7	1213.1	1268.6	1309.0
-62.5°	660.0	712.8	757.0	794.8	828.9	862.7	907.4	951.3	1002.6	1047.0	1080.6
-65°	548.3	592.4	623.5	651.6	676.3	705.0	739.7	774.9	815.2	849.7	877.2
-67.5°	462.3	492.1	511.7	529.0	549.5	572.4	598.6	626.7	658.0	684.1	705.2
-70°	397.2	415.8	427.7	440.6	455.6	471.5	489.2	510.3	534.1	554.5	572.0
-72.5°	345.7	360.0	369.8	379.8	388.8	399.6	411.5	427.3	444.9	460.8	475.6
-75°	301.0	311.2	320.4	329.1	336.9	346.1	355.6	368.9	383.3	396.4	408.8
-77.5°	271.0	278.9	285.0	290.9	296.5	304.1	312.0	322.7	333.9	344.8	355.3
-80°	247.0	253.1	258.2	262.5	266.4	272.9	279.6	288.4	297.3	306.7	316.0
-82.5°	224.7	230.0	235.0	239.0	242.7	248.6	254.6	262.5	270.4	278.2	285.9
-85°	203.8	208.7	213.4	217.2	221.0	225.7	230.4	237.2	244.1	251.2	258.2
-87.5°	185.7	190.3	194.8	197.9	200.9	205.1	209.3	215.1	220.9	227.0	233.0
-90°	2.6	2.6	2.6	2.3	2.0	2.0	2.0	1.7	1.3	1.3	1.3



REPORT NUMBER: P731421 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-5S-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	218.2	220.8	222.2	223.5	222.2	220.8	218.2	215.6	210.3	205.0	199.8
87.5°	1.6	1.3	1.3	1.3	1.3	1.3	1.6	2.0	2.0	2.0	2.3
85°	2.3	2.0	2.3	2.6	2.3	2.0	2.3	2.6	2.9	3.2	3.2
82.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.0	3.3	3.3
80°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.7	3.0
77.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.0
75°	3.6	3.3	3.3	3.3	3.3	3.3	3.6	3.9	3.8	3.8	4.0
72.5°	8.9	9.0	9.5	9.9	9.5	9.0	8.9	8.6	8.0	7.5	7.2
70°	11.7	11.8	11.9	11.9	11.9	11.8	11.7	11.5	11.3	11.0	10.6
67.5°	18.0	18.3	19.0	19.8	19.0	18.3	18.0	17.3	15.9	15.0	14.5
65°	22.5	23.4	23.7	23.7	23.7	23.4	22.5	21.3	19.6	18.2	17.3
62.5°	19.5	20.3	20.4	20.4	20.4	20.3	19.5	18.7	17.8	17.0	16.2
60°	13.5	13.9	14.2	14.5	14.2	13.9	13.5	13.1	12.6	12.3	12.0
57.5°	8.2	8.6	8.7	8.6	8.7	8.6	8.2	8.1	8.0	8.2	8.4
55°	9.0	9.1	9.0	8.6	9.0	9.1	9.0	8.9	8.7	8.9	9.2
52.5°	29.4	27.9	26.4	25.0	26.4	27.9	29.4	30.1	29.6	28.2	25.2
50°	106.7	104.9	102.4	99.5	102.4	104.9	106.7	107.9	104.4	96.0	82.7
47.5°	256.3	256.8	254.3	249.8	254.3	256.8	256.3	251.5	246.2	234.4	215.4
45°	906.3	955.6	982.1	1000.6	982.1	955.6	906.3	804.2	687.1	558.3	429.0
42.5°	1821.3	1890.4	1943.0	1953.8	1943.0	1890.4	1821.3	1741.7	1650.8	1413.8	1196.1
40°	3321.7	3333.3	3140.6	2849.6	3140.6	3333.3	3321.7	3127.3	2963.3	2767.1	2426.0
37.5°	4713.5	5199.8	5764.9	6053.3	5764.9	5199.8	4713.5	4375.4	4091.6	3804.9	3451.5
35°	6765.0	7496.6	7734.0	7740.1	7734.0	7496.6	6765.0	5906.6	5270.4	4842.2	4441.4
32.5°	9397.7	9992.5	10310.1	10223.9	10310.1	9992.5	9397.7	8321.8	7128.8	6348.2	5763.5
30°	12288.6	12806.1	12810.3	12637.1	12810.3	12806.1	12288.6	11542.0	10261.1	9016.3	7823.0
27.5°	16584.8	17678.4	18448.0	18655.5	18448.0	17678.4	16584.8	15360.2	14177.3	12620.7	10909.3
25°	21350.0	22551.8	23290.7	23559.8	23290.7	22551.8	21350.0	19809.3	18099.3	16571.8	14856.1
22.5°	26721.5	27889.9	28423.2	28702.0	28423.2	27889.9	26721.5	25154.5	23470.7	21293.5	19140.3
20°	34229.7	35891.0	36517.2	36784.9	36517.2	35891.0	34229.7	32248.8	30170.7	27306.9	24101.5
17.5°	44630.0	47911.0	49962.4	51015.9	49962.4	47911.0	44630.0	41355.7	38204.6	34230.4	29738.8
15°	56161.0	59491.9	61682.4	62995.9	61682.4	59491.9	56161.0	52318.7	47127.0	41554.4	36060.2
12.5°	66053.4	69022.7	71138.4	72396.1	71138.4	69022.7	66053.4	61428.5	55406.1	48472.5	42193.7
10°	72399.6	74946.0	77141.0	78213.1	77141.0	74946.0	72399.6	68305.2	61854.6	55026.6	47189.4
7.5°	75986.3	78947.2	80137.0	80870.2	80137.0	78947.2	75986.3	72303.1	67027.9	59606.3	51630.5
5°	78766.0	81105.9	82204.3	82740.3	82204.3	81105.9	78766.0	75084.9	70327.0	63505.0	55101.7
2.5°	80621.7	82653.0	83429.8	83862.2	83429.8	82653.0	80621.7	77227.4	72922.1	66543.3	57920.6
0°	81512.2	83009.9	83880.7	83456.2	83880.7	83009.9	81512.2	78669.2	74058.5	68165.8	60016.4
-2.5°	81518.5	82942.0	83589.4	83274.3	83589.4	82942.0	81518.5	79261.8	74712.8	68588.1	60069.5
-5°	80821.1	81883.5	82671.9	82419.3	82671.9	81883.5	80821.1	78581.5	74297.5	67953.4	59722.0
-7.5°	78940.2	80352.3	80929.7	80957.9	80929.7	80352.3	78940.2	76731.5	72779.5	65924.8	57458.0
-10°	76352.9	77918.5	78533.3	78596.0	78533.3	77918.5	76352.9	73741.3	69183.7	62629.7	54074.0
-12.5°	72507.5	74344.0	75228.8	75386.5	75228.8	74344.0	72507.5	69233.0	64486.0	57014.1	49842.1
-15°	66538.1	69013.4	70410.5	70900.8	70410.5	69013.4	66538.1	62953.4	57427.8	51315.9	44759.5
-17.5°	58422.8	61380.3	63122.5	63736.8	63122.5	61380.3	58422.8	54339.3	50047.4	45249.8	39992.2
-20°	49957.8	52150.3	53493.4	54046.9	53493.4	52150.3	49957.8	46607.7	43199.1	39294.0	35477.2



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	42258.1	44025.9	45023.8	45467.0	45023.8	44025.9	42258.1	39672.3	36867.1	34165.0	31105.7
-25°	35580.1	37068.9	37580.7	37869.3	37580.7	37068.9	35580.1	33814.2	31632.8	29511.1	27138.1
-27.5°	30123.7	31304.7	31580.4	31835.1	31580.4	31304.7	30123.7	28866.1	27137.2	25386.8	23407.8
-30°	25525.9	26553.8	26694.3	26976.3	26694.3	26553.8	25525.9	24483.1	23067.1	21473.1	19599.7
-32.5°	21226.2	22141.4	22492.0	22545.9	22492.0	22141.4	21226.2	20163.0	18853.5	17508.1	16197.7
-35°	17108.9	17712.1	17950.7	17965.3	17950.7	17712.1	17108.9	16328.4	15339.8	14296.7	13308.9
-37.5°	13871.7	14256.2	14532.6	14456.5	14532.6	14256.2	13871.7	13342.0	12488.2	11655.0	10745.8
-40°	11126.4	11513.3	11765.9	11704.4	11765.9	11513.3	11126.4	10685.9	9899.8	9101.1	8132.6
-42.5°	8290.2	8715.7	8954.4	8888.4	8954.4	8715.7	8290.2	7843.4	7033.5	6133.7	5225.3
-45°	5141.4	5516.4	5692.3	5585.2	5692.3	5516.4	5141.4	4768.6	4114.6	3333.3	2610.3
-47.5°	2682.2	2767.6	2794.9	2756.7	2794.9	2767.6	2682.2	2602.8	2452.2	2254.8	2087.4
-50°	2174.8	2228.3	2251.3	2244.5	2251.3	2228.3	2174.8	2108.1	2022.7	1915.1	1824.5
-52.5°	1888.9	1913.6	1921.8	1916.9	1921.8	1913.6	1888.9	1853.9	1809.3	1747.2	1695.6
-55°	1758.9	1783.5	1792.0	1789.0	1792.0	1783.5	1758.9	1723.8	1682.3	1623.2	1567.5
-57.5°	1594.2	1624.3	1643.0	1652.6	1643.0	1624.3	1594.2	1554.6	1506.9	1439.1	1368.0
-60°	1341.6	1365.7	1372.6	1369.1	1372.6	1365.7	1341.6	1309.0	1268.6	1213.1	1150.7
-62.5°	1107.0	1126.8	1141.6	1151.6	1141.6	1126.8	1107.0	1080.6	1047.0	1002.6	951.3
-65°	897.5	911.8	914.8	912.3	914.8	911.8	897.5	877.2	849.7	815.2	774.9
-67.5°	720.0	730.6	732.0	729.7	732.0	730.6	720.0	705.2	684.1	658.0	626.7
-70°	583.7	592.7	593.9	592.6	593.9	592.7	583.7	572.0	554.5	534.1	510.3
-72.5°	484.2	490.7	495.7	499.7	495.7	490.7	484.2	475.6	460.8	444.9	427.3
-75°	415.0	419.7	420.9	421.2	420.9	419.7	415.0	408.8	396.4	383.3	368.9
-77.5°	360.8	365.5	368.9	371.8	368.9	365.5	360.8	355.3	344.8	333.9	322.7
-80°	320.2	323.7	326.4	328.9	326.4	323.7	320.2	316.0	306.7	297.3	288.4
-82.5°	289.9	293.6	295.8	297.9	295.8	293.6	289.9	285.9	278.2	270.4	262.5
-85°	261.2	264.1	266.2	268.3	266.2	264.1	261.2	258.2	251.2	244.1	237.2
-87.5°	235.8	238.5	239.9	241.3	239.9	238.5	235.8	233.0	227.0	220.9	215.1
-90°	1.0	0.7	0.7	0.7	0.7	0.7	1.0	1.3	1.3	1.3	1.7



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	194.5	190.5	186.5	183.6	180.6	177.0	173.4	167.8	162.2	156.3	150.3
87.5°	2.6	2.6	2.5	2.6	2.6	2.9	3.2	3.2	3.3	3.7	4.0
85°	3.2	3.2	3.2	3.4	3.6	3.7	3.7	3.7	3.7	4.0	4.3
82.5°	3.3	3.3	3.3	3.7	4.0	4.0	4.0	4.1	4.2	4.4	4.6
80°	3.3	3.6	3.8	3.9	4.0	4.1	4.2	4.4	4.6	4.6	4.7
77.5°	3.4	3.7	4.0	4.2	4.3	4.5	4.7	4.6	4.7	4.9	5.1
75°	4.2	4.2	4.4	4.7	5.0	5.1	5.3	5.4	5.4	5.4	5.6
72.5°	6.9	6.6	6.4	6.4	6.2	6.3	6.4	6.5	6.5	6.2	6.0
70°	10.5	10.5	10.6	10.6	10.4	10.1	9.5	8.7	8.1	8.0	7.5
67.5°	14.2	14.1	14.7	15.7	15.5	14.9	13.9	12.8	11.9	11.1	9.6
65°	17.1	17.2	17.1	17.0	17.3	17.8	18.1	17.2	17.3	15.7	12.6
62.5°	16.7	17.5	16.5	15.9	16.7	18.4	21.3	22.7	24.0	22.6	18.9
60°	13.1	14.2	13.8	14.0	15.2	19.0	24.3	28.4	31.9	29.6	25.3
57.5°	8.8	9.1	10.1	12.0	14.1	20.3	27.2	33.5	38.0	35.3	31.7
55°	9.7	10.6	10.9	12.3	13.8	22.1	29.8	36.4	41.1	39.9	36.1
52.5°	21.2	24.0	23.8	21.1	22.7	28.5	33.0	40.5	44.6	44.5	41.4
50°	73.8	76.6	68.6	57.2	58.1	48.4	54.0	55.4	53.9	54.3	49.7
47.5°	201.8	187.6	169.2	155.2	138.2	119.0	118.8	96.9	94.1	76.0	72.7
45°	396.8	355.8	321.8	293.8	264.6	244.6	225.4	213.8	169.4	152.5	109.7
42.5°	1021.6	709.2	534.4	458.9	395.4	366.0	345.0	330.8	310.8	258.2	216.4
40°	2040.7	1585.0	1170.2	734.5	555.6	475.1	444.5	411.1	407.8	380.6	325.6
37.5°	3044.3	2575.0	2055.1	1513.5	1007.1	640.4	567.5	517.5	480.6	470.6	431.0
35°	3974.8	3488.6	3006.9	2431.2	1772.8	1231.1	746.7	658.2	587.2	545.6	521.8
32.5°	5016.9	4506.0	3898.3	3335.6	2745.5	2048.6	1415.6	877.0	720.2	648.1	592.2
30°	6681.1	5828.1	5010.4	4288.7	3698.5	3066.6	2272.1	1466.2	928.6	754.2	666.8
27.5°	9299.8	7668.8	6580.6	5627.8	4840.5	4174.3	3371.8	2299.6	1279.8	920.5	764.3
25°	12883.9	11051.5	9191.8	7828.3	6685.9	5547.2	4697.3	3400.1	2093.2	1118.2	873.2
22.5°	17144.5	14878.9	12781.5	10561.1	8836.5	7332.8	5939.7	4513.0	2942.3	1571.5	1058.2
20°	20920.3	18283.7	15907.8	13446.6	10960.5	8803.4	6988.5	5495.0	3856.3	2288.7	1237.9
17.5°	25605.4	21936.0	18991.6	16341.9	13386.8	10701.7	8403.2	6544.3	4710.0	2887.3	1385.2
15°	30781.5	26063.1	22117.7	18765.5	15669.0	12633.0	9949.1	7666.2	5663.2	3520.3	1819.8
12.5°	36341.9	30612.6	25322.7	21141.5	17459.8	14144.5	11000.0	8641.6	6548.3	4281.5	2298.7
10°	40081.6	34160.1	28473.6	23669.2	19386.6	15386.9	11898.4	9243.6	7123.4	4947.8	2767.5
7.5°	43986.3	36978.1	30801.9	25523.4	21064.3	16886.2	12787.0	9708.7	7565.9	5445.4	3131.7
5°	46323.6	38931.5	32507.1	26979.4	22269.1	18091.2	13838.5	10123.0	7931.4	5818.7	3410.1
2.5°	48165.7	40142.8	33435.1	27754.0	23092.1	18814.1	14707.9	10530.5	8128.1	5994.1	3487.5
0°	49768.8	41015.5	34171.2	28347.4	23609.9	19277.1	15150.6	10927.2	8187.7	6037.4	3473.9
-2.5°	49700.9	40727.3	33747.3	28055.4	23382.9	19129.9	15204.6	11437.4	8605.0	6074.1	3479.0
-5°	49751.8	40741.8	33471.2	27856.2	23180.8	18936.0	15047.4	11586.6	8824.7	6024.5	3399.9
-7.5°	48420.6	40017.2	32965.9	27439.1	22832.6	18580.0	14668.5	11399.0	8834.7	6027.3	3271.3
-10°	45800.1	38284.8	31765.5	26553.4	22143.6	17956.6	14113.3	11090.0	8595.6	5788.0	3050.4
-12.5°	42914.0	36214.9	30141.0	25220.1	21051.0	17048.5	13411.1	10648.3	8160.2	5339.2	2834.3
-15°	39115.1	33793.8	28731.8	23866.8	19675.3	15928.7	12605.0	10092.8	7607.8	4756.5	2498.5
-17.5°	35383.9	30823.3	26425.0	22282.2	18198.4	14702.6	11840.1	9361.4	6821.9	4091.0	2058.2
-20°	31743.6	27826.4	24015.4	20165.8	16537.2	13316.2	10878.8	8473.3	5839.3	3438.8	1986.7



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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°	28187.9	25050.6	21658.7	17963.0	14803.5	12116.2	9745.8	7373.9	4716.9	2671.8	1891.6
-25°	24656.8	22052.9	18977.9	16140.3	13260.2	10790.6	8511.5	6013.1	3756.5	2221.5	1764.6
-27.5°	21118.5	18690.7	16482.8	14141.3	11836.2	9401.8	6995.9	4595.4	2689.5	2017.1	1694.2
-30°	17678.7	15820.0	13978.5	12122.2	10144.8	7842.1	5288.3	3371.8	2227.7	1823.6	1603.1
-32.5°	14690.5	13245.0	11723.1	10098.4	8160.7	6032.2	3901.9	2432.4	1962.9	1715.3	1547.4
-35°	12107.3	10796.6	9516.3	7824.1	5854.2	4087.2	2581.5	2101.6	1801.4	1610.8	1497.4
-37.5°	9701.2	8394.2	6921.8	5354.6	3755.3	2573.2	2172.6	1878.4	1664.6	1545.0	1430.6
-40°	7022.2	5675.7	4380.4	3062.4	2481.3	2145.1	1916.5	1724.4	1596.2	1471.5	1358.5
-42.5°	4266.9	3161.5	2527.1	2301.6	2072.8	1905.2	1748.4	1638.9	1521.1	1401.9	1250.5
-45°	2429.9	2238.0	2066.0	1969.6	1845.1	1749.3	1661.2	1551.8	1442.8	1288.5	1127.7
-47.5°	1983.1	1903.3	1827.8	1780.9	1722.3	1650.7	1556.8	1452.6	1303.5	1151.5	1016.8
-50°	1759.1	1730.3	1701.1	1667.5	1608.7	1537.2	1423.3	1290.8	1155.6	1031.0	906.4
-52.5°	1650.6	1614.5	1578.2	1541.0	1464.5	1363.4	1250.6	1134.3	1017.1	908.3	799.0
-55°	1519.9	1463.6	1405.1	1340.9	1269.6	1182.1	1087.9	983.9	884.4	785.1	701.8
-57.5°	1305.4	1247.9	1198.6	1143.0	1081.3	1009.5	933.4	843.7	759.6	682.7	610.3
-60°	1098.3	1045.0	1004.7	959.4	909.3	849.5	789.1	719.8	645.4	583.9	524.7
-62.5°	907.4	862.7	828.9	794.8	757.0	712.8	660.0	607.0	547.7	491.7	450.3
-65°	739.7	705.0	676.3	651.6	623.5	592.4	548.3	508.0	465.0	422.5	386.2
-67.5°	598.6	572.4	549.5	529.0	511.7	492.1	462.3	429.4	398.0	368.9	344.2
-70°	489.2	471.5	455.6	440.6	427.7	415.8	397.2	374.9	349.9	325.6	304.8
-72.5°	411.5	399.6	388.8	379.8	369.8	360.0	345.7	327.2	307.2	286.5	269.2
-75°	355.6	346.1	336.9	329.1	320.4	311.2	301.0	287.6	273.8	259.4	246.0
-77.5°	312.0	304.1	296.5	290.9	285.0	278.9	271.0	259.6	248.8	237.7	227.1
-80°	279.6	272.9	266.4	262.5	258.2	253.1	247.0	238.1	229.1	219.5	210.2
-82.5°	254.6	248.6	242.7	239.0	235.0	230.0	224.7	217.2	209.6	201.2	193.0
-85°	230.4	225.7	221.0	217.2	213.4	208.7	203.8	197.3	190.7	183.2	175.6
-87.5°	209.3	205.1	200.9	197.9	194.8	190.3	185.7	180.0	174.2	167.6	161.0
-90°	2.0	2.0	2.0	2.3	2.6	2.6	2.6	3.0	3.3	3.7	4.0



REPORT NUMBER: P731421 (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°	144.7	139.1	133.8	128.5	124.3	120.0	115.4	110.7	103.2	95.6	85.1
87.5°	4.2	4.4	4.7	5.0	5.0	5.0	5.3	5.6	5.7	5.7	6.0
85°	4.5	4.8	5.0	5.3	5.3	5.3	5.6	5.8	6.0	6.2	6.4
82.5°	5.0	5.3	5.2	5.3	5.7	6.0	6.0	6.1	6.4	6.7	6.8
80°	5.0	5.3	5.4	5.6	6.1	6.6	6.4	6.5	6.8	7.1	7.2
77.5°	5.3	5.5	5.7	5.9	6.3	6.6	6.7	6.8	7.3	7.6	7.6
75°	5.7	5.8	5.8	6.1	6.5	6.7	6.9	7.2	7.6	8.0	8.0
72.5°	6.2	6.2	6.1	6.2	6.8	7.1	7.3	7.5	7.9	8.3	8.5
70°	7.0	6.7	6.5	6.7	7.2	7.6	7.9	8.1	8.3	8.7	8.9
67.5°	7.9	7.5	7.1	7.3	7.6	8.3	8.5	8.8	9.0	9.2	9.5
65°	10.9	9.5	7.9	8.3	8.4	9.0	9.5	9.8	9.8	10.0	10.0
62.5°	15.3	12.9	11.4	10.1	9.9	10.7	10.6	11.4	10.8	11.0	10.9
60°	20.9	17.2	15.4	14.0	13.1	13.1	13.4	13.2	13.0	12.0	11.9
57.5°	26.1	21.2	20.6	18.6	18.1	17.1	17.2	16.8	15.8	14.8	13.0
55°	30.9	26.6	26.7	25.2	24.6	22.7	22.5	21.7	19.6	18.3	14.4
52.5°	35.8	34.2	33.8	34.2	33.7	30.3	29.9	27.1	25.6	22.3	18.1
50°	43.4	44.9	43.3	45.9	44.4	42.2	38.0	35.0	31.9	27.1	22.2
47.5°	63.1	64.1	59.2	61.2	58.9	55.7	50.0	43.9	38.6	33.3	26.3
45°	109.6	94.3	88.3	82.7	77.6	73.3	64.3	53.3	47.1	39.6	30.5
42.5°	173.5	152.6	136.0	107.6	105.5	93.8	80.3	67.5	56.1	46.1	35.6
40°	273.6	234.6	198.6	167.1	140.3	116.5	101.5	83.2	65.3	53.3	41.4
37.5°	380.1	330.7	283.4	235.0	186.4	153.3	124.9	99.9	76.4	61.7	47.4
35°	474.9	431.0	365.7	309.3	253.5	191.7	150.2	119.1	91.4	70.3	53.4
32.5°	556.3	514.3	443.2	380.6	307.9	231.1	181.9	141.0	106.7	79.1	59.7
30°	621.7	573.9	514.3	437.2	353.3	275.6	215.1	162.5	122.3	88.0	66.4
27.5°	685.6	631.3	577.0	489.0	395.5	313.8	242.7	183.5	138.0	98.1	73.6
25°	762.0	691.4	631.6	545.4	436.8	344.7	267.4	204.2	155.0	109.8	80.6
22.5°	857.4	750.4	686.9	604.7	484.1	375.1	291.6	226.0	169.5	120.9	87.3
20°	940.7	802.8	739.9	659.8	535.4	413.9	316.5	244.2	183.3	131.2	93.7
17.5°	1028.6	857.6	774.0	699.0	585.3	453.1	342.6	261.4	196.2	140.9	99.7
15°	1146.6	916.8	805.1	732.8	628.0	490.7	368.2	277.7	208.3	149.8	105.6
12.5°	1243.5	972.0	835.8	759.3	661.1	524.8	392.6	293.0	219.4	158.7	111.4
10°	1336.9	1030.8	869.2	784.4	688.9	555.5	415.7	309.2	232.5	167.7	116.8
7.5°	1439.7	1086.3	901.4	808.3	712.5	580.9	439.4	328.5	245.2	175.9	121.9
5°	1522.8	1135.5	934.5	835.0	735.1	600.5	460.8	346.7	257.0	183.4	126.5
2.5°	1546.7	1176.8	966.9	860.2	754.3	615.9	479.6	363.4	267.6	190.0	130.7
0°	1553.0	1210.3	996.0	882.6	769.9	627.5	495.7	378.4	276.9	195.8	134.5
-2.5°	1585.9	1237.3	1022.1	914.8	797.8	642.5	504.8	386.1	284.8	202.5	140.0
-5°	1604.1	1256.3	1045.1	943.3	820.7	653.8	511.2	391.8	291.1	208.2	144.9
-7.5°	1614.5	1270.1	1066.1	967.0	837.5	660.9	514.8	395.5	295.9	212.8	149.3
-10°	1609.5	1276.7	1084.1	980.4	845.4	667.6	516.7	397.3	299.1	216.3	153.1
-12.5°	1616.9	1278.2	1098.5	990.2	848.2	673.8	522.9	400.1	300.8	218.7	156.3
-15°	1617.1	1293.8	1121.7	998.4	846.6	675.5	525.3	401.5	301.3	220.0	158.9
-17.5°	1580.4	1295.1	1143.1	1010.1	841.8	672.4	523.7	399.8	300.0	220.3	161.2
-20°	1569.6	1305.8	1155.3	1015.9	831.3	665.4	518.0	394.9	296.9	219.5	163.1



REPORT NUMBER: P731421 (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°
-22.5°	1555.0	1329.3	1169.3	1003.1	816.2	654.6	509.7	387.0	292.0	217.6	164.4
-25°	1509.4	1344.4	1175.8	988.3	800.0	642.7	499.8	380.1	285.2	214.5	165.1
-27.5°	1482.5	1337.2	1171.9	963.9	782.8	625.7	489.5	375.0	280.7	210.2	165.2
-30°	1466.1	1315.1	1137.2	932.1	757.5	605.4	476.4	367.1	277.0	208.5	164.8
-32.5°	1428.3	1288.6	1084.8	896.0	729.3	581.5	460.4	356.1	271.5	208.3	164.4
-35°	1371.4	1222.2	1022.8	850.3	697.9	560.4	442.3	342.1	264.0	207.1	163.7
-37.5°	1305.1	1129.1	966.2	802.0	657.5	534.4	423.8	329.4	254.6	204.9	162.7
-40°	1201.3	1038.0	890.2	751.0	617.4	502.1	402.3	317.1	249.0	201.7	161.0
-42.5°	1093.0	948.1	815.2	690.3	574.4	471.4	378.7	302.8	244.3	198.5	158.7
-45°	989.8	857.6	739.4	631.9	528.7	438.2	359.7	287.7	238.2	194.9	156.4
-47.5°	886.1	773.2	667.8	570.4	488.6	405.2	336.7	279.3	230.9	190.6	154.5
-50°	791.4	690.7	598.1	515.4	441.6	377.5	314.7	269.3	224.4	185.1	152.1
-52.5°	701.4	612.2	532.8	460.6	402.3	347.7	299.7	257.3	216.6	180.4	149.2
-55°	616.4	539.0	470.1	413.3	364.0	324.7	283.1	245.2	207.6	175.8	146.0
-57.5°	539.3	468.9	418.3	370.8	333.0	301.5	267.0	232.0	200.6	170.5	144.3
-60°	465.3	416.4	371.6	337.0	306.5	278.9	250.7	219.4	193.6	165.2	142.0
-62.5°	407.0	367.0	336.8	307.4	281.0	257.3	234.4	209.4	185.5	161.8	139.2
-65°	359.1	331.2	303.5	279.8	256.6	237.0	221.2	198.7	179.3	158.0	136.0
-67.5°	319.9	296.9	274.1	252.6	236.3	221.9	207.1	190.4	173.4	153.8	132.1
-70°	284.7	264.2	247.7	233.6	220.1	207.3	196.8	182.9	167.0	148.6	127.8
-72.5°	255.7	242.1	228.4	215.7	206.3	196.8	187.1	175.0	159.8	142.9	123.2
-75°	233.8	223.1	212.9	203.3	194.8	186.0	177.1	166.6	152.3	136.9	117.9
-77.5°	217.8	208.5	199.4	190.7	182.8	174.8	166.9	157.9	144.3	129.8	112.0
-80°	201.8	193.5	185.5	177.6	170.5	163.4	156.0	147.8	135.2	122.3	105.9
-82.5°	185.6	178.3	171.1	163.8	157.2	150.6	144.1	137.0	125.8	114.5	100.1
-85°	169.1	162.5	155.9	149.3	143.5	137.6	132.6	127.2	117.8	108.3	95.2
-87.5°	155.4	149.6	144.0	138.3	133.6	128.9	124.0	119.0	110.5	102.1	90.2
-90°	4.0	4.0	4.3	4.6	4.6	4.6	5.0	5.3	5.3	5.3	5.6



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	74.5	61.6	48.8	34.9	21.1	14.2	7.3
87.5°	6.3	6.2	6.1	6.1	6.1	6.7	7.3
85°	6.6	6.5	6.4	6.3	6.3	6.9	7.3
82.5°	7.0	6.8	6.6	6.6	6.4	7.0	7.3
80°	7.3	7.1	6.9	6.8	6.6	7.2	7.3
77.5°	7.7	7.4	7.1	7.0	6.8	7.3	7.3
75°	8.1	7.9	7.4	7.2	7.0	7.5	7.3
72.5°	8.5	8.3	7.9	7.5	7.2	7.6	7.3
70°	8.9	8.8	8.3	7.7	7.5	7.8	7.3
67.5°	9.4	9.3	8.8	8.1	7.7	8.0	7.3
65°	10.0	9.8	9.3	8.5	7.9	8.1	7.3
62.5°	10.6	10.3	9.7	8.9	8.2	8.3	7.3
60°	11.2	10.9	10.2	9.3	8.4	8.4	7.3
57.5°	12.5	11.4	10.9	9.6	8.9	8.6	7.3
55°	13.9	12.0	11.6	10.0	9.3	8.8	7.3
52.5°	15.5	12.8	12.4	10.4	9.8	8.9	7.3
50°	17.2	14.6	13.2	10.8	10.3	9.1	7.3
47.5°	19.3	16.5	14.1	11.2	10.8	9.2	7.3
45°	22.9	18.5	15.0	11.9	11.4	9.4	7.3
42.5°	26.6	20.6	16.0	12.7	12.0	9.6	7.3
40°	30.5	22.8	17.4	13.8	12.6	9.7	7.3
37.5°	34.7	25.1	19.1	15.1	13.2	9.9	7.3
35°	38.9	28.2	20.9	16.5	13.8	10.1	7.3
32.5°	43.5	31.5	22.7	17.8	14.5	10.2	7.3
30°	48.8	34.9	24.5	19.3	15.2	10.4	7.3
27.5°	54.0	38.2	26.9	20.7	15.9	10.5	7.3
25°	59.1	41.4	29.3	22.1	16.6	10.7	7.3
22.5°	64.0	44.8	31.7	23.6	17.3	10.8	7.3
20°	68.7	48.3	34.0	25.0	18.0	11.0	7.3
17.5°	73.5	51.8	36.3	26.4	18.7	11.1	7.3
15°	78.1	55.1	38.5	27.8	19.4	11.2	7.3
12.5°	82.4	58.2	40.7	29.2	20.1	11.4	7.3
10°	86.4	61.2	42.8	30.6	20.7	11.5	7.3
7.5°	90.1	64.0	44.7	31.9	21.4	11.6	7.3
5°	93.6	66.6	46.6	33.2	22.0	11.7	7.3
2.5°	96.7	69.0	48.4	34.4	22.6	11.8	7.3
0°	99.5	71.2	50.1	35.6	23.1	11.9	7.3
-2.5°	103.8	74.5	52.4	37.2	24.1	12.4	7.3
-5°	107.7	77.5	54.6	38.7	25.0	12.8	7.3
-7.5°	111.2	80.3	56.7	40.1	25.9	13.2	7.3
-10°	114.3	82.8	58.6	41.4	26.8	13.7	7.3
-12.5°	117.0	85.1	60.4	42.6	27.5	14.1	7.3
-15°	119.3	87.1	62.0	43.8	28.3	14.4	7.3
-17.5°	121.2	88.8	63.5	44.8	28.9	14.8	7.3
-20°	122.8	90.1	64.8	45.8	29.6	15.2	7.3



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 CATALOG NUMBER: EPH-LS-08-0320N-57-70-5S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	124.5	91.2	65.9	46.6	30.1	15.5	7.3
-25°	125.8	92.5	66.8	47.4	30.6	15.8	7.3
-27.5°	126.5	93.7	67.5	48.0	31.0	16.1	7.3
-30°	126.7	94.6	68.1	48.5	31.4	16.3	7.3
-32.5°	126.5	95.2	69.3	48.9	31.6	16.5	7.3
-35°	126.5	95.5	70.3	49.2	31.9	16.7	7.3
-37.5°	126.5	95.8	71.0	49.4	32.0	16.9	7.3
-40°	126.1	96.5	71.6	49.4	32.1	17.1	7.3
-42.5°	125.4	97.0	72.1	49.6	32.1	17.2	7.3
-45°	124.3	97.3	72.5	49.8	32.0	17.3	7.3
-47.5°	122.8	97.3	72.6	50.0	31.9	17.3	7.3
-50°	122.2	97.0	72.5	50.0	31.7	17.3	7.3
-52.5°	121.5	96.5	72.2	49.9	31.4	17.3	7.3
-55°	120.5	95.6	71.6	49.7	31.1	17.3	7.3
-57.5°	119.2	94.5	70.8	49.3	30.7	17.2	7.3
-60°	117.5	93.0	69.8	48.8	30.2	17.2	7.3
-62.5°	115.3	91.3	68.8	48.2	29.8	17.0	7.3
-65°	112.8	89.4	67.6	47.4	29.3	16.9	7.3
-67.5°	110.0	87.3	66.2	46.5	28.7	16.7	7.3
-70°	106.9	84.9	64.7	45.5	28.1	16.5	7.3
-72.5°	103.1	82.3	63.0	44.5	27.4	16.3	7.3
-75°	99.0	79.4	61.1	43.4	26.7	16.1	7.3
-77.5°	94.5	76.2	59.3	42.3	25.8	15.8	7.3
-80°	89.7	73.4	57.5	41.0	25.0	15.5	7.3
-82.5°	86.1	70.7	55.5	39.6	24.1	15.2	7.3
-85°	82.4	67.8	53.4	38.1	23.1	14.9	7.3
-87.5°	78.5	64.8	51.1	36.6	22.1	14.6	7.3
-90°	5.9	5.9	5.9	5.9	5.9	6.6	7.3

(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

