

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: P701399 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-40-80-3S-HEG-S**

Issue Date: 8/15/2023

Test Information

Test Method: LM-79-08
Report Number: P701399 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320L-40-80-3S-HEG-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 3S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

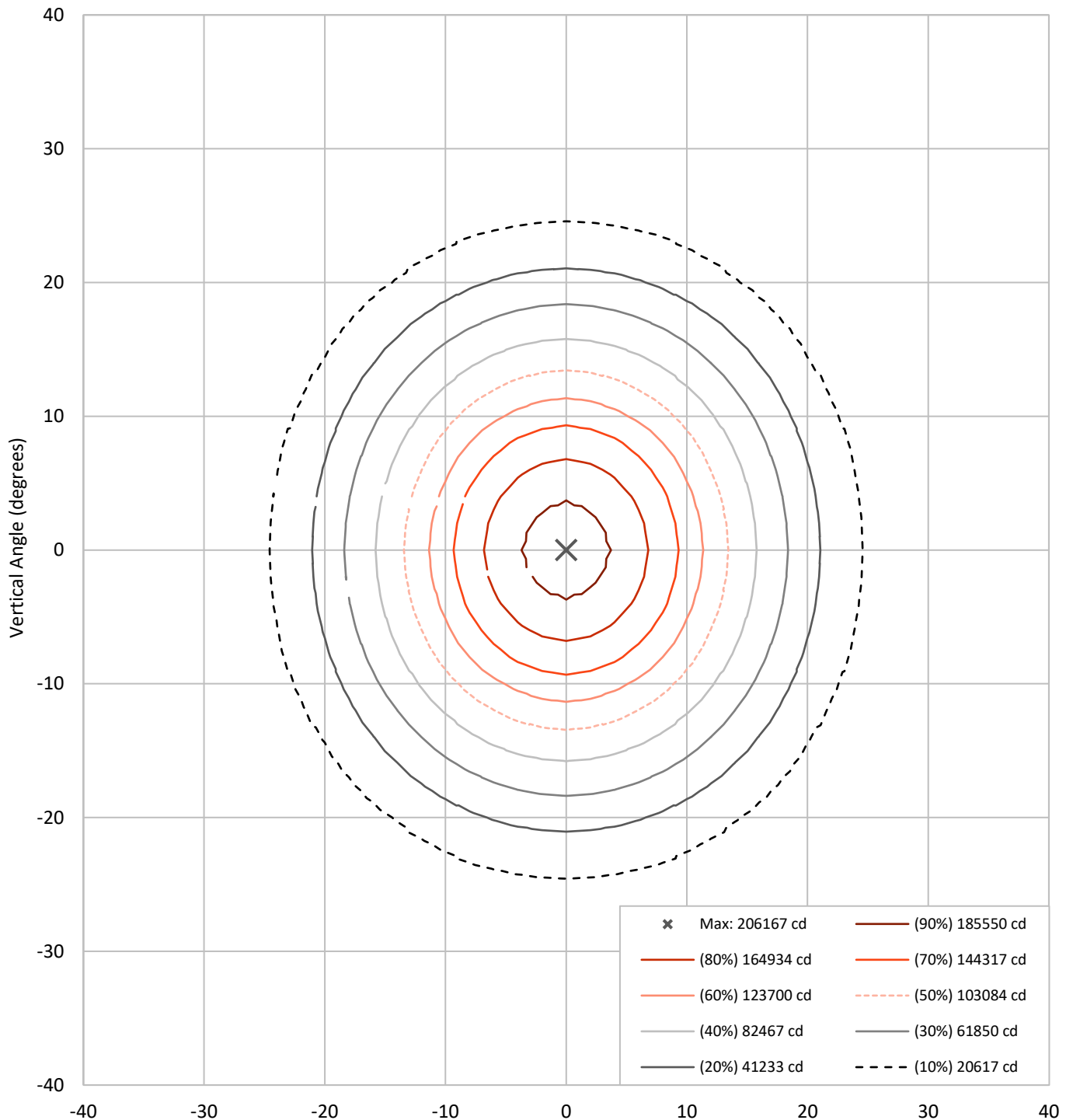
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	55682.9 lumens	Max Intensity:	206167 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	161.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	26.9°H x 26.9°V	Field Angle (10%):	48.9°H x 48.9°V
Beam Lumens:	24143.3 lumens	Field Lumens:	46222.3 lumens
Beam Efficiency:	43.4%	Field Efficiency:	83.0%

Input Watts (W): 344.2
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





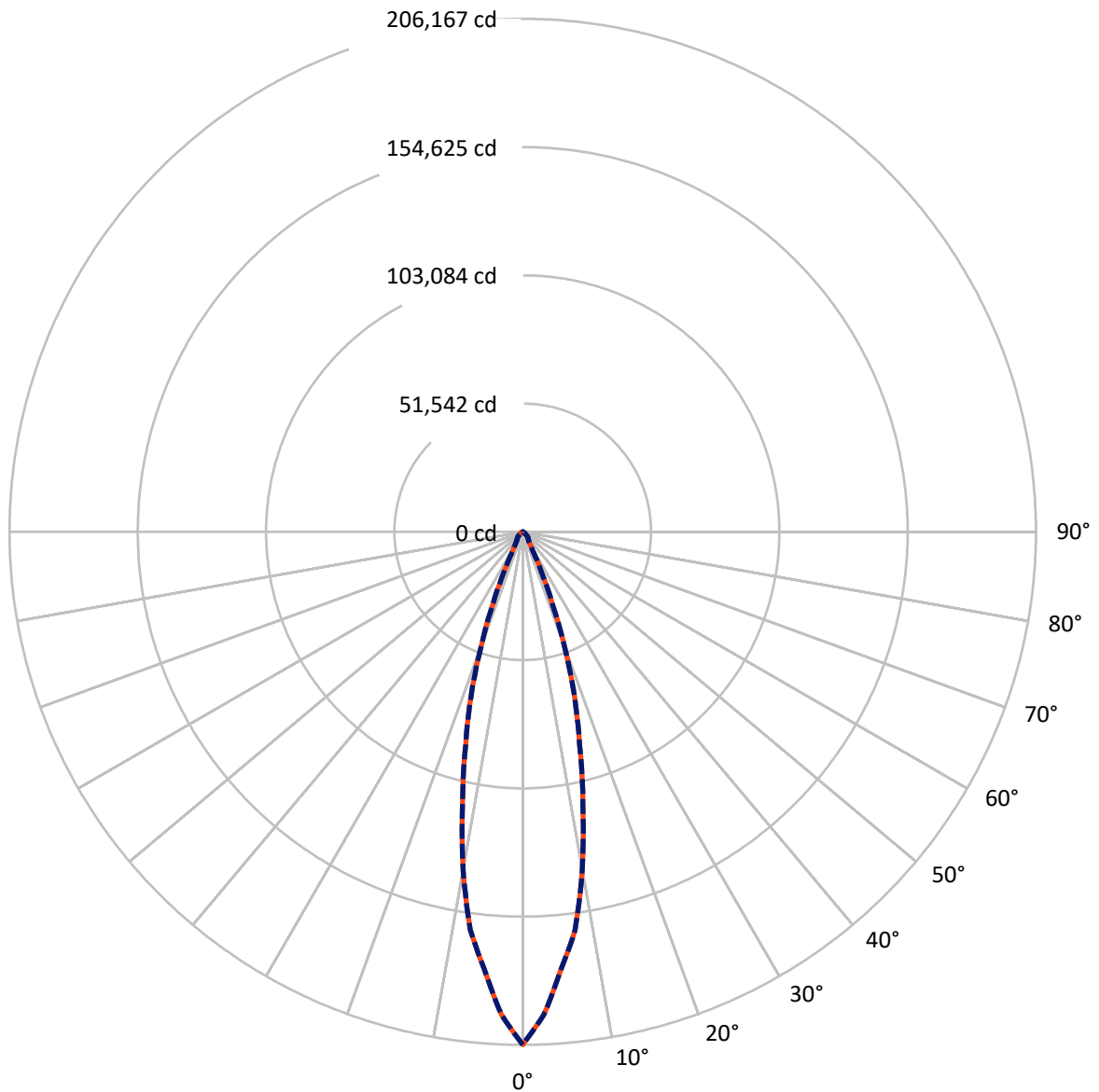
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Lumen Table

90																			
80	0.1	0.5		1.9		5.0		6.7		5.0		1.9		0.5		0.1			
70																			
60	0.2	0.3	1.2	3.7	7.3	11.0	14.1	15.8	15.8	14.1	11.0	7.3	3.7	1.2	0.3	0.2			
50		0.9	4.3	10.1	17.4	24.8	30.8	34.0	34.0	30.8	24.8	17.4	10.1	4.3	0.9				
40	0.6	2.3	8.3	17.6	29.2	45.9	65.7	77.1	77.1	65.7	45.9	29.2	17.6	8.3	2.3	0.6			
30		3.9	12.3	25.2	51.5	84.8	109.0	128.1	128.1	109.0	84.8	51.5	25.2	12.3	3.9				
20	1.5	5.3	15.9	36.1	76.7	121.5	280.9	577.7	577.7	280.9	121.5	76.7	36.1	15.9	5.3	1.5			
10		6.4	18.5	48.6	92.8	265.2	1228.9	2461.0	2461.0	1228.9	265.2	92.8	48.6	18.5	6.4				
0	1.9	6.9	19.8	55.3	105.9	531.8	2393.6	4720.7	4720.7	2393.6	531.8	105.9	55.3	19.8	6.9	1.9			
-10		6.9	19.8	55.3	105.9	531.8	2393.6	4720.7	4720.7	2393.6	531.8	105.9	55.3	19.8	6.9				
-20	1.5	6.4	18.5	48.6	92.8	265.2	1228.9	2461.0	2461.0	1228.9	265.2	92.8	48.6	18.5	6.4	1.5			
-30		5.3	15.9	36.1	76.7	121.5	280.9	577.7	577.7	280.9	121.5	76.7	36.1	15.9	5.3				
-40	0.6	3.9	12.3	25.2	51.5	84.8	109.0	128.1	128.1	109.0	84.8	51.5	25.2	12.3	3.9	0.6			
-50		2.3	8.3	17.6	29.2	45.9	65.7	77.1	77.1	65.7	45.9	29.2	17.6	8.3	2.3				
-60	0.2	0.9	4.3	10.1	17.4	24.8	30.8	34.0	34.0	30.8	24.8	17.4	10.1	4.3	0.9	0.2			
-70		0.3	1.2	3.7	7.3	11.0	14.1	15.8	15.8	14.1	11.0	7.3	3.7	1.2	0.3				
-80	0.1	0.5		1.9		5.0		6.7		5.0		1.9		0.5		0.1			
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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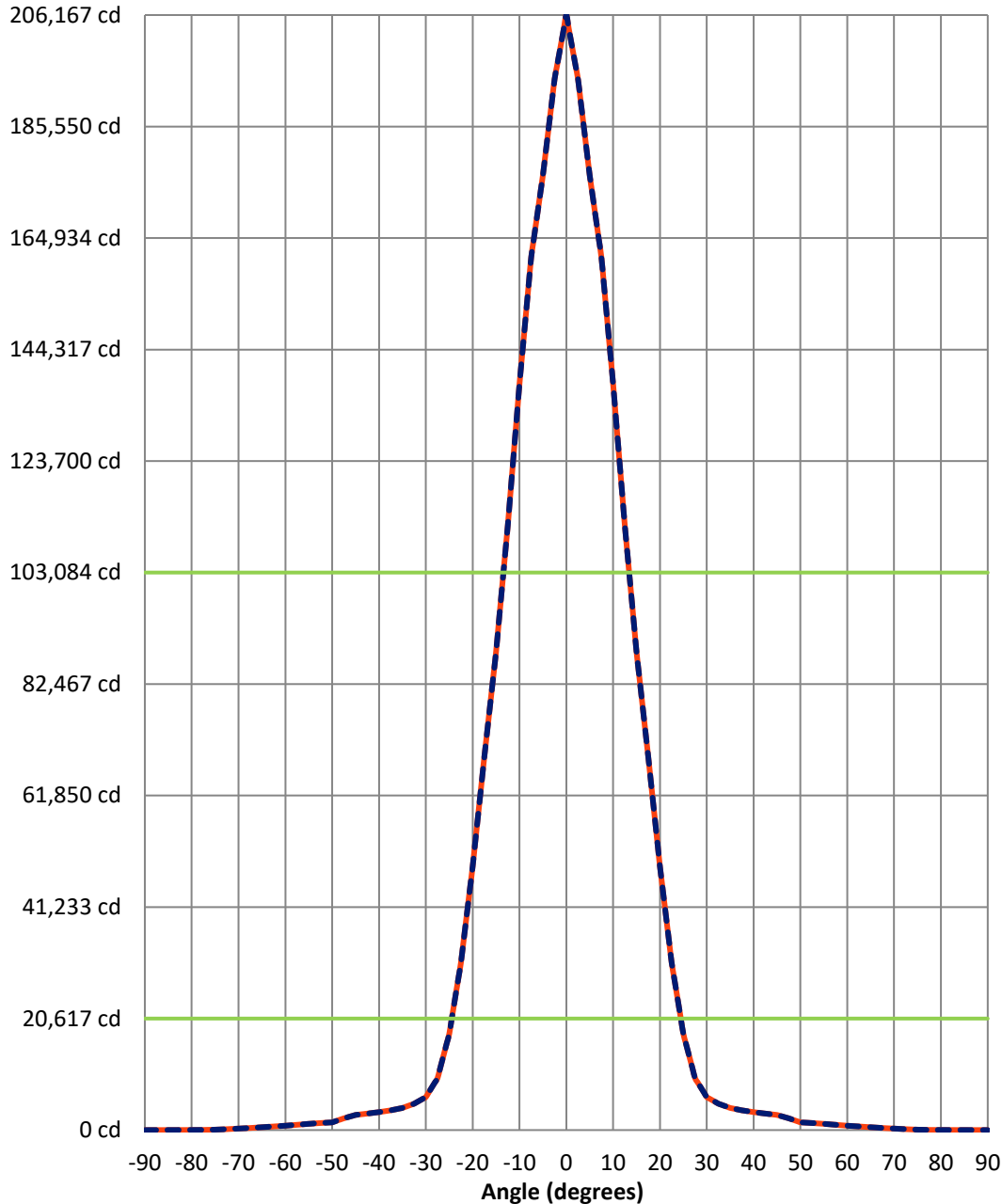
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 26.9°
 V Angle: 26.9°
 Lumens: 24143.3
 Efficiency: 43.4%

Field:
 H Angle: 48.9°
 V Angle: 48.9°
 Lumens: 46222.3
 Efficiency: 83.0%

Spill:
 Lumens: 9460.6
 Efficiency: 17.0%

— 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	0.2	0.3	0.5	0.6	0.8	1.0	1.1	1.3	1.4	1.6
85°	0.0	0.3	0.6	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1
82.5°	0.0	0.5	1.0	1.4	1.9	2.4	2.9	3.3	3.8	4.1	4.5
80°	0.0	0.6	1.3	1.9	2.6	3.2	3.8	4.3	4.7	5.2	5.7
77.5°	0.0	0.8	1.6	2.4	3.2	3.9	4.5	5.1	5.7	6.3	7.1
75°	0.0	1.0	1.9	2.9	3.8	4.5	5.3	6.0	6.7	7.9	9.0
72.5°	0.0	1.1	2.2	3.3	4.3	5.1	6.0	6.9	8.3	9.6	10.8
70°	0.0	1.3	2.5	3.8	4.7	5.7	6.7	8.3	9.8	11.3	13.3
67.5°	0.0	1.4	2.8	4.1	5.2	6.3	7.9	9.6	11.3	13.6	16.0
65°	0.0	1.6	3.1	4.5	5.7	7.1	9.0	10.8	13.3	16.0	19.3
62.5°	0.0	1.7	3.4	4.8	6.1	8.0	10.0	12.5	15.4	18.7	24.4
60°	0.0	1.8	3.7	5.1	6.6	8.8	11.1	14.2	17.4	23.2	29.3
57.5°	0.0	2.0	3.9	5.5	7.3	9.7	12.5	15.9	20.9	27.6	42.1
55°	0.0	2.1	4.1	5.8	7.9	10.5	13.9	17.6	24.7	34.1	58.4
52.5°	0.0	2.3	4.3	6.1	8.6	11.4	15.3	20.7	28.4	48.4	74.3
50°	0.0	2.4	4.5	6.4	9.2	12.5	16.7	23.8	34.5	62.2	103.1
47.5°	0.0	2.5	4.7	6.7	9.8	13.6	18.2	26.8	46.4	75.6	132.5
45°	0.0	2.6	4.9	7.1	10.4	14.6	20.7	29.7	57.8	100.8	160.9
42.5°	0.0	2.7	5.1	7.6	10.9	15.6	23.0	36.5	68.8	125.3	194.3
40°	0.0	2.8	5.2	8.0	11.6	16.6	25.3	45.6	82.6	148.8	227.4
37.5°	0.0	2.9	5.4	8.3	12.3	17.5	27.5	54.3	102.4	172.7	258.9
35°	0.0	3.0	5.5	8.7	13.0	18.9	29.5	62.6	121.1	199.5	288.5
32.5°	0.0	3.1	5.7	9.0	13.6	20.5	32.9	70.3	138.8	224.7	316.0
30°	0.0	3.2	5.8	9.3	14.2	22.0	39.0	79.3	155.3	248.3	341.8
27.5°	0.0	3.3	5.9	9.6	14.8	23.4	44.8	92.6	172.1	270.2	365.8
25°	0.0	3.4	6.1	9.9	15.3	24.7	50.1	104.9	190.0	290.2	388.2
22.5°	0.0	3.4	6.2	10.1	15.8	25.8	54.9	116.1	206.3	308.2	413.7
20°	0.0	3.5	6.2	10.4	16.2	26.9	59.3	126.2	221.0	324.5	436.8
17.5°	0.0	3.5	6.3	10.6	16.6	27.8	63.1	135.2	234.0	339.0	457.4
15°	0.0	3.6	6.4	10.7	16.9	28.6	66.5	143.0	245.4	351.6	475.3
12.5°	0.0	3.6	6.5	10.9	17.2	29.3	69.4	149.7	255.1	362.4	490.6
10°	0.0	3.6	6.5	11.0	17.4	29.9	71.7	155.1	263.1	371.2	503.1
7.5°	0.0	3.7	6.6	11.1	17.6	30.3	73.5	159.4	269.3	378.1	512.9
5°	0.0	3.7	6.6	11.1	17.7	30.6	74.8	162.5	273.7	383.0	520.0
2.5°	0.0	3.7	6.6	11.2	17.8	30.8	75.6	164.3	276.4	386.0	524.2
0°	0.0	3.7	6.6	11.2	17.8	30.9	75.9	164.9	277.3	387.0	525.6
-2.5°	0.0	3.7	6.6	11.2	17.8	30.8	75.6	164.3	276.4	386.0	524.2
-5°	0.0	3.7	6.6	11.1	17.7	30.6	74.8	162.5	273.7	383.0	520.0
-7.5°	0.0	3.7	6.6	11.1	17.6	30.3	73.5	159.4	269.3	378.1	512.9
-10°	0.0	3.6	6.5	11.0	17.4	29.9	71.7	155.1	263.1	371.2	503.1
-12.5°	0.0	3.6	6.5	10.9	17.2	29.3	69.4	149.7	255.1	362.4	490.6
-15°	0.0	3.6	6.4	10.7	16.9	28.6	66.5	143.0	245.4	351.6	475.3
-17.5°	0.0	3.5	6.3	10.6	16.6	27.8	63.1	135.2	234.0	339.0	457.4
-20°	0.0	3.5	6.2	10.4	16.2	26.9	59.3	126.2	221.0	324.5	436.8



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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	3.4	6.2	10.1	15.8	25.8	54.9	116.1	206.3	308.2	413.7
-25°	0.0	3.4	6.1	9.9	15.3	24.7	50.1	104.9	190.0	290.2	388.2
-27.5°	0.0	3.3	5.9	9.6	14.8	23.4	44.8	92.6	172.1	270.2	365.8
-30°	0.0	3.2	5.8	9.3	14.2	22.0	39.0	79.3	155.3	248.3	341.8
-32.5°	0.0	3.1	5.7	9.0	13.6	20.5	32.9	70.3	138.8	224.7	316.0
-35°	0.0	3.0	5.5	8.7	13.0	18.9	29.5	62.6	121.1	199.5	288.5
-37.5°	0.0	2.9	5.4	8.3	12.3	17.5	27.5	54.3	102.4	172.7	258.9
-40°	0.0	2.8	5.2	8.0	11.6	16.6	25.3	45.6	82.6	148.8	227.4
-42.5°	0.0	2.7	5.1	7.6	10.9	15.6	23.0	36.5	68.8	125.3	194.3
-45°	0.0	2.6	4.9	7.1	10.4	14.6	20.7	29.7	57.8	100.8	160.9
-47.5°	0.0	2.5	4.7	6.7	9.8	13.6	18.2	26.8	46.4	75.6	132.5
-50°	0.0	2.4	4.5	6.4	9.2	12.5	16.7	23.8	34.5	62.2	103.1
-52.5°	0.0	2.3	4.3	6.1	8.6	11.4	15.3	20.7	28.4	48.4	74.3
-55°	0.0	2.1	4.1	5.8	7.9	10.5	13.9	17.6	24.7	34.1	58.4
-57.5°	0.0	2.0	3.9	5.5	7.3	9.7	12.5	15.9	20.9	27.6	42.1
-60°	0.0	1.8	3.7	5.1	6.6	8.8	11.1	14.2	17.4	23.2	29.3
-62.5°	0.0	1.7	3.4	4.8	6.1	8.0	10.0	12.5	15.4	18.7	24.4
-65°	0.0	1.6	3.1	4.5	5.7	7.1	9.0	10.8	13.3	16.0	19.3
-67.5°	0.0	1.4	2.8	4.1	5.2	6.3	7.9	9.6	11.3	13.6	16.0
-70°	0.0	1.3	2.5	3.8	4.7	5.7	6.7	8.3	9.8	11.3	13.3
-72.5°	0.0	1.1	2.2	3.3	4.3	5.1	6.0	6.9	8.3	9.6	10.8
-75°	0.0	1.0	1.9	2.9	3.8	4.5	5.3	6.0	6.7	7.9	9.0
-77.5°	0.0	0.8	1.6	2.4	3.2	3.9	4.5	5.1	5.7	6.3	7.1
-80°	0.0	0.6	1.3	1.9	2.6	3.2	3.8	4.3	4.7	5.2	5.7
-82.5°	0.0	0.5	1.0	1.4	1.9	2.4	2.9	3.3	3.8	4.1	4.5
-85°	0.0	0.3	0.6	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1
-87.5°	0.0	0.2	0.3	0.5	0.6	0.8	1.0	1.1	1.3	1.4	1.6
-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°	1.7	1.8	2.0	2.1	2.3	2.4	2.5	2.6	2.7	2.8	2.9
85°	3.4	3.7	3.9	4.1	4.3	4.5	4.7	4.9	5.1	5.2	5.4
82.5°	4.8	5.1	5.5	5.8	6.1	6.4	6.7	7.1	7.6	8.0	8.3
80°	6.1	6.6	7.3	7.9	8.6	9.2	9.8	10.4	10.9	11.6	12.3
77.5°	8.0	8.8	9.7	10.5	11.4	12.5	13.6	14.6	15.6	16.6	17.5
75°	10.0	11.1	12.5	13.9	15.3	16.7	18.2	20.7	23.0	25.3	27.5
72.5°	12.5	14.2	15.9	17.6	20.7	23.8	26.8	29.7	36.5	45.6	54.3
70°	15.4	17.4	20.9	24.7	28.4	34.5	46.4	57.8	68.8	82.6	102.4
67.5°	18.7	23.2	27.6	34.1	48.4	62.2	75.6	100.8	125.3	148.8	172.7
65°	24.4	29.3	42.1	58.4	74.3	103.1	132.5	160.9	194.3	227.4	258.9
62.5°	29.9	46.2	64.5	88.6	123.1	156.6	195.3	234.9	273.0	308.7	342.7
60°	46.2	66.5	96.7	135.2	174.8	221.0	265.7	308.2	348.9	388.2	435.3
57.5°	64.5	96.7	139.3	185.1	236.5	286.3	333.7	379.5	433.4	487.1	538.7
55°	88.6	135.2	185.1	241.7	296.5	349.0	403.6	466.1	526.6	585.9	642.7
52.5°	123.1	174.8	236.5	296.5	354.2	416.7	486.0	553.7	620.0	683.5	743.1
50°	156.6	221.0	286.3	349.0	416.7	492.6	567.4	640.7	710.6	777.3	850.0
47.5°	195.3	265.7	333.7	403.6	486.0	567.4	647.7	724.2	798.0	884.5	969.3
45°	234.9	308.2	379.5	466.1	553.7	640.7	724.2	804.9	901.9	996.6	1091.0
42.5°	273.0	348.9	433.4	526.6	620.0	710.6	798.0	901.9	1005.8	1109.8	1200.6
40°	308.7	388.2	487.1	585.9	683.5	777.3	884.5	996.6	1109.8	1208.6	1297.1
37.5°	342.7	435.3	538.7	642.7	743.1	850.0	969.3	1091.0	1200.6	1297.1	1375.4
35°	374.9	480.0	588.5	696.0	800.0	925.8	1053.8	1176.9	1280.9	1368.6	1584.2
32.5°	410.2	522.4	635.8	746.0	865.7	998.8	1134.6	1248.8	1348.1	1498.2	2024.8
30°	446.4	562.9	679.8	793.0	928.8	1069.8	1201.3	1314.3	1408.5	1893.3	2398.1
27.5°	480.0	600.8	720.2	844.6	988.4	1136.4	1261.0	1367.5	1677.2	2250.9	2727.0
25°	511.1	635.8	757.5	895.0	1045.6	1190.8	1314.0	1417.1	2003.8	2539.6	2893.9
22.5°	539.9	667.8	791.8	941.3	1098.1	1238.2	1356.5	1661.5	2283.1	2800.2	3011.9
20°	566.1	696.0	827.0	983.6	1145.8	1281.3	1395.2	1917.5	2510.9	2900.8	3124.7
17.5°	589.4	721.1	861.2	1022.6	1182.5	1316.7	1458.7	2147.3	2715.9	2991.6	3229.0
15°	609.8	743.1	891.1	1056.9	1213.6	1344.7	1645.3	2319.2	2836.7	3073.3	3322.0
12.5°	627.2	761.8	916.7	1086.1	1240.2	1368.7	1805.2	2462.4	2900.4	3146.8	3419.8
10°	641.5	777.3	937.7	1110.2	1262.1	1388.5	1937.4	2580.9	2953.3	3207.9	3501.3
7.5°	652.7	789.3	954.1	1129.0	1279.3	1404.1	2041.1	2674.1	2994.8	3256.0	3565.6
5°	660.7	798.0	965.9	1142.5	1291.6	1415.2	2115.6	2741.1	3024.8	3290.7	3612.0
2.5°	665.5	803.2	973.0	1150.7	1299.0	1422.0	2160.6	2781.5	3042.9	3311.7	3640.1
0°	667.1	804.9	975.4	1153.4	1301.5	1424.2	2175.6	2795.0	3048.9	3318.7	3649.5
-2.5°	665.5	803.2	973.0	1150.7	1299.0	1422.0	2160.6	2781.5	3042.9	3311.7	3640.1
-5°	660.7	798.0	965.9	1142.5	1291.6	1415.2	2115.6	2741.1	3024.8	3290.7	3612.0
-7.5°	652.7	789.3	954.1	1129.0	1279.3	1404.1	2041.1	2674.1	2994.8	3256.0	3565.6
-10°	641.5	777.3	937.7	1110.2	1262.1	1388.5	1937.4	2580.9	2953.3	3207.9	3501.3
-12.5°	627.2	761.8	916.7	1086.1	1240.2	1368.7	1805.2	2462.4	2900.4	3146.8	3419.8
-15°	609.8	743.1	891.1	1056.9	1213.6	1344.7	1645.3	2319.2	2836.7	3073.3	3322.0
-17.5°	589.4	721.1	861.2	1022.6	1182.5	1316.7	1458.7	2147.3	2715.9	2991.6	3229.0
-20°	566.1	696.0	827.0	983.6	1145.8	1281.3	1395.2	1917.5	2510.9	2900.8	3124.7



REPORT NUMBER: P701399 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	539.9	667.8	791.8	941.3	1098.1	1238.2	1356.5	1661.5	2283.1	2800.2	3011.9
-25°	511.1	635.8	757.5	895.0	1045.6	1190.8	1314.0	1417.1	2003.8	2539.6	2893.9
-27.5°	480.0	600.8	720.2	844.6	988.4	1136.4	1261.0	1367.5	1677.2	2250.9	2727.0
-30°	446.4	562.9	679.8	793.0	928.8	1069.8	1201.3	1314.3	1408.5	1893.3	2398.1
-32.5°	410.2	522.4	635.8	746.0	865.7	998.8	1134.6	1248.8	1348.1	1498.2	2024.8
-35°	374.9	480.0	588.5	696.0	800.0	925.8	1053.8	1176.9	1280.9	1368.6	1584.2
-37.5°	342.7	435.3	538.7	642.7	743.1	850.0	969.3	1091.0	1200.6	1297.1	1375.4
-40°	308.7	388.2	487.1	585.9	683.5	777.3	884.5	996.6	1109.8	1208.6	1297.1
-42.5°	273.0	348.9	433.4	526.6	620.0	710.6	798.0	901.9	1005.8	1109.8	1200.6
-45°	234.9	308.2	379.5	466.1	553.7	640.7	724.2	804.9	901.9	996.6	1091.0
-47.5°	195.3	265.7	333.7	403.6	486.0	567.4	647.7	724.2	798.0	884.5	969.3
-50°	156.6	221.0	286.3	349.0	416.7	492.6	567.4	640.7	710.6	777.3	850.0
-52.5°	123.1	174.8	236.5	296.5	354.2	416.7	486.0	553.7	620.0	683.5	743.1
-55°	88.6	135.2	185.1	241.7	296.5	349.0	403.6	466.1	526.6	585.9	642.7
-57.5°	64.5	96.7	139.3	185.1	236.5	286.3	333.7	379.5	433.4	487.1	538.7
-60°	46.2	66.5	96.7	135.2	174.8	221.0	265.7	308.2	348.9	388.2	435.3
-62.5°	29.9	46.2	64.5	88.6	123.1	156.6	195.3	234.9	273.0	308.7	342.7
-65°	24.4	29.3	42.1	58.4	74.3	103.1	132.5	160.9	194.3	227.4	258.9
-67.5°	18.7	23.2	27.6	34.1	48.4	62.2	75.6	100.8	125.3	148.8	172.7
-70°	15.4	17.4	20.9	24.7	28.4	34.5	46.4	57.8	68.8	82.6	102.4
-72.5°	12.5	14.2	15.9	17.6	20.7	23.8	26.8	29.7	36.5	45.6	54.3
-75°	10.0	11.1	12.5	13.9	15.3	16.7	18.2	20.7	23.0	25.3	27.5
-77.5°	8.0	8.8	9.7	10.5	11.4	12.5	13.6	14.6	15.6	16.6	17.5
-80°	6.1	6.6	7.3	7.9	8.6	9.2	9.8	10.4	10.9	11.6	12.3
-82.5°	4.8	5.1	5.5	5.8	6.1	6.4	6.7	7.1	7.6	8.0	8.3
-85°	3.4	3.7	3.9	4.1	4.3	4.5	4.7	4.9	5.1	5.2	5.4
-87.5°	1.7	1.8	2.0	2.1	2.3	2.4	2.5	2.6	2.7	2.8	2.9
-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):

	-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°	3.0	3.1	3.2	3.3	3.4	3.4	3.5	3.5	3.6	3.6	3.6
85°	5.5	5.7	5.8	5.9	6.1	6.2	6.2	6.3	6.4	6.5	6.5
82.5°	8.7	9.0	9.3	9.6	9.9	10.1	10.4	10.6	10.7	10.9	11.0
80°	13.0	13.6	14.2	14.8	15.3	15.8	16.2	16.6	16.9	17.2	17.4
77.5°	18.9	20.5	22.0	23.4	24.7	25.8	26.9	27.8	28.6	29.3	29.9
75°	29.5	32.9	39.0	44.8	50.1	54.9	59.3	63.1	66.5	69.4	71.7
72.5°	62.6	70.3	79.3	92.6	104.9	116.1	126.2	135.2	143.0	149.7	155.1
70°	121.1	138.8	155.3	172.1	190.0	206.3	221.0	234.0	245.4	255.1	263.1
67.5°	199.5	224.7	248.3	270.2	290.2	308.2	324.5	339.0	351.6	362.4	371.2
65°	288.5	316.0	341.8	365.8	388.2	413.7	436.8	457.4	475.3	490.6	503.1
62.5°	374.9	410.2	446.4	480.0	511.1	539.9	566.1	589.4	609.8	627.2	641.5
60°	480.0	522.4	562.9	600.8	635.8	667.8	696.0	721.1	743.1	761.8	777.3
57.5°	588.5	635.8	679.8	720.2	757.5	791.8	827.0	861.2	891.1	916.7	937.7
55°	696.0	746.0	793.0	844.6	895.0	941.3	983.6	1022.6	1056.9	1086.1	1110.2
52.5°	800.0	865.7	928.8	988.4	1045.6	1098.1	1145.8	1182.5	1213.6	1240.2	1262.1
50°	925.8	998.8	1069.8	1136.4	1190.8	1238.2	1281.3	1316.7	1344.7	1368.7	1388.5
47.5°	1053.8	1134.6	1201.3	1261.0	1314.0	1356.5	1395.2	1458.7	1645.3	1805.2	1937.4
45°	1176.9	1248.8	1314.3	1367.5	1417.1	1661.5	1917.5	2147.3	2319.2	2462.4	2580.9
42.5°	1280.9	1348.1	1408.5	1677.2	2003.8	2283.1	2510.9	2715.9	2836.7	2900.4	2953.3
40°	1368.6	1498.2	1893.3	2250.9	2539.6	2800.2	2900.8	2991.6	3073.3	3146.8	3207.9
37.5°	1584.2	2024.8	2398.1	2727.0	2893.9	3011.9	3124.7	3229.0	3322.0	3419.8	3501.3
35°	2068.9	2472.6	2814.0	2957.7	3096.0	3230.5	3362.6	3500.5	3623.2	3755.8	3873.7
32.5°	2472.6	2829.7	2990.0	3148.8	3302.6	3475.7	3639.2	3833.7	4010.4	4222.6	4451.8
30°	2814.0	2990.0	3166.6	3343.9	3545.0	3762.0	3995.5	4303.3	4644.7	4982.5	5373.9
27.5°	2957.7	3148.8	3343.9	3568.3	3826.1	4099.5	4546.9	5006.6	5585.7	6093.6	7315.0
25°	3096.0	3302.6	3545.0	3826.1	4159.3	4671.1	5308.7	6002.8	7627.3	9213.3	11862.7
22.5°	3230.5	3475.7	3762.0	4099.5	4671.1	5410.8	6439.6	8581.1	11804.5	15874.3	20323.5
20°	3362.6	3639.2	3995.5	4546.9	5308.7	6439.6	8904.6	13398.0	18753.3	25950.0	32593.4
17.5°	3500.5	3833.7	4303.3	5006.6	6002.8	8581.1	13398.0	20128.9	28867.0	38834.8	48181.7
15°	3623.2	4010.4	4644.7	5585.7	7627.3	11804.5	18753.3	28867.0	40975.6	53332.6	65254.6
12.5°	3755.8	4222.6	4982.5	6093.6	9213.3	15874.3	25950.0	38834.8	53332.6	68150.2	80979.4
10°	3873.7	4451.8	5373.9	7315.0	11862.7	20323.5	32593.4	48181.7	65254.6	80979.4	96284.0
7.5°	3966.9	4633.6	5685.5	8294.6	14398.3	24860.0	39443.2	56904.0	74975.7	92403.3	111972.1
5°	4034.4	4765.5	5912.1	9009.3	16256.9	28204.5	44532.2	63511.0	82256.9	102572.6	124955.9
2.5°	4075.2	4845.4	6049.7	9444.6	17392.3	30256.3	47672.4	67621.5	86841.3	109396.8	134485.6
0°	4088.9	4872.2	6095.9	9590.8	17774.3	30948.1	48734.6	69018.1	88409.6	111750.5	137915.3
-2.5°	4075.2	4845.4	6049.7	9444.6	17392.3	30256.3	47672.4	67621.5	86841.3	109396.8	134485.6
-5°	4034.4	4765.5	5912.1	9009.3	16256.9	28204.5	44532.2	63511.0	82256.9	102572.6	124955.9
-7.5°	3966.9	4633.6	5685.5	8294.6	14398.3	24860.0	39443.2	56904.0	74975.7	92403.3	111972.1
-10°	3873.7	4451.8	5373.9	7315.0	11862.7	20323.5	32593.4	48181.7	65254.6	80979.4	96284.0
-12.5°	3755.8	4222.6	4982.5	6093.6	9213.3	15874.3	25950.0	38834.8	53332.6	68150.2	80979.4
-15°	3623.2	4010.4	4644.7	5585.7	7627.3	11804.5	18753.3	28867.0	40975.6	53332.6	65254.6
-17.5°	3500.5	3833.7	4303.3	5006.6	6002.8	8581.1	13398.0	20128.9	28867.0	38834.8	48181.7
-20°	3362.6	3639.2	3995.5	4546.9	5308.7	6439.6	8904.6	13398.0	18753.3	25950.0	32593.4



REPORT NUMBER: P701399 (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°	3230.5	3475.7	3762.0	4099.5	4671.1	5410.8	6439.6	8581.1	11804.5	15874.3	20323.5
-25°	3096.0	3302.6	3545.0	3826.1	4159.3	4671.1	5308.7	6002.8	7627.3	9213.3	11862.7
-27.5°	2957.7	3148.8	3343.9	3568.3	3826.1	4099.5	4546.9	5006.6	5585.7	6093.6	7315.0
-30°	2814.0	2990.0	3166.6	3343.9	3545.0	3762.0	3995.5	4303.3	4644.7	4982.5	5373.9
-32.5°	2472.6	2829.7	2990.0	3148.8	3302.6	3475.7	3639.2	3833.7	4010.4	4222.6	4451.8
-35°	2068.9	2472.6	2814.0	2957.7	3096.0	3230.5	3362.6	3500.5	3623.2	3755.8	3873.7
-37.5°	1584.2	2024.8	2398.1	2727.0	2893.9	3011.9	3124.7	3229.0	3322.0	3419.8	3501.3
-40°	1368.6	1498.2	1893.3	2250.9	2539.6	2800.2	2900.8	2991.6	3073.3	3146.8	3207.9
-42.5°	1280.9	1348.1	1408.5	1677.2	2003.8	2283.1	2510.9	2715.9	2836.7	2900.4	2953.3
-45°	1176.9	1248.8	1314.3	1367.5	1417.1	1661.5	1917.5	2147.3	2319.2	2462.4	2580.9
-47.5°	1053.8	1134.6	1201.3	1261.0	1314.0	1356.5	1395.2	1458.7	1645.3	1805.2	1937.4
-50°	925.8	998.8	1069.8	1136.4	1190.8	1238.2	1281.3	1316.7	1344.7	1368.7	1388.5
-52.5°	800.0	865.7	928.8	988.4	1045.6	1098.1	1145.8	1182.5	1213.6	1240.2	1262.1
-55°	696.0	746.0	793.0	844.6	895.0	941.3	983.6	1022.6	1056.9	1086.1	1110.2
-57.5°	588.5	635.8	679.8	720.2	757.5	791.8	827.0	861.2	891.1	916.7	937.7
-60°	480.0	522.4	562.9	600.8	635.8	667.8	696.0	721.1	743.1	761.8	777.3
-62.5°	374.9	410.2	446.4	480.0	511.1	539.9	566.1	589.4	609.8	627.2	641.5
-65°	288.5	316.0	341.8	365.8	388.2	413.7	436.8	457.4	475.3	490.6	503.1
-67.5°	199.5	224.7	248.3	270.2	290.2	308.2	324.5	339.0	351.6	362.4	371.2
-70°	121.1	138.8	155.3	172.1	190.0	206.3	221.0	234.0	245.4	255.1	263.1
-72.5°	62.6	70.3	79.3	92.6	104.9	116.1	126.2	135.2	143.0	149.7	155.1
-75°	29.5	32.9	39.0	44.8	50.1	54.9	59.3	63.1	66.5	69.4	71.7
-77.5°	18.9	20.5	22.0	23.4	24.7	25.8	26.9	27.8	28.6	29.3	29.9
-80°	13.0	13.6	14.2	14.8	15.3	15.8	16.2	16.6	16.9	17.2	17.4
-82.5°	8.7	9.0	9.3	9.6	9.9	10.1	10.4	10.6	10.7	10.9	11.0
-85°	5.5	5.7	5.8	5.9	6.1	6.2	6.2	6.3	6.4	6.5	6.5
-87.5°	3.0	3.1	3.2	3.3	3.4	3.4	3.5	3.5	3.6	3.6	3.6
-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: P701399 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-3S-HEG-S

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°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.5
85°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.4	6.3
82.5°	11.1	11.1	11.2	11.2	11.2	11.1	11.1	11.0	10.9	10.7	10.6
80°	17.6	17.7	17.8	17.8	17.8	17.7	17.6	17.4	17.2	16.9	16.6
77.5°	30.3	30.6	30.8	30.9	30.8	30.6	30.3	29.9	29.3	28.6	27.8
75°	73.5	74.8	75.6	75.9	75.6	74.8	73.5	71.7	69.4	66.5	63.1
72.5°	159.4	162.5	164.3	164.9	164.3	162.5	159.4	155.1	149.7	143.0	135.2
70°	269.3	273.7	276.4	277.3	276.4	273.7	269.3	263.1	255.1	245.4	234.0
67.5°	378.1	383.0	386.0	387.0	386.0	383.0	378.1	371.2	362.4	351.6	339.0
65°	512.9	520.0	524.2	525.6	524.2	520.0	512.9	503.1	490.6	475.3	457.4
62.5°	652.7	660.7	665.5	667.1	665.5	660.7	652.7	641.5	627.2	609.8	589.4
60°	789.3	798.0	803.2	804.9	803.2	798.0	789.3	777.3	761.8	743.1	721.1
57.5°	954.1	965.9	973.0	975.4	973.0	965.9	954.1	937.7	916.7	891.1	861.2
55°	1129.0	1142.5	1150.7	1153.4	1150.7	1142.5	1129.0	1110.2	1086.1	1056.9	1022.6
52.5°	1279.3	1291.6	1299.0	1301.5	1299.0	1291.6	1279.3	1262.1	1240.2	1213.6	1182.5
50°	1404.1	1415.2	1422.0	1424.2	1422.0	1415.2	1404.1	1388.5	1368.7	1344.7	1316.7
47.5°	2041.1	2115.6	2160.6	2175.6	2160.6	2115.6	2041.1	1937.4	1805.2	1645.3	1458.7
45°	2674.1	2741.1	2781.5	2795.0	2781.5	2741.1	2674.1	2580.9	2462.4	2319.2	2147.3
42.5°	2994.8	3024.8	3042.9	3048.9	3042.9	3024.8	2994.8	2953.3	2900.4	2836.7	2715.9
40°	3256.0	3290.7	3311.7	3318.7	3311.7	3290.7	3256.0	3207.9	3146.8	3073.3	2991.6
37.5°	3565.6	3612.0	3640.1	3649.5	3640.1	3612.0	3565.6	3501.3	3419.8	3322.0	3229.0
35°	3966.9	4034.4	4075.2	4088.9	4075.2	4034.4	3966.9	3873.7	3755.8	3623.2	3500.5
32.5°	4633.6	4765.5	4845.4	4872.2	4845.4	4765.5	4633.6	4451.8	4222.6	4010.4	3833.7
30°	5685.5	5912.1	6049.7	6095.9	6049.7	5912.1	5685.5	5373.9	4982.5	4644.7	4303.3
27.5°	8294.6	9009.3	9444.6	9590.8	9444.6	9009.3	8294.6	7315.0	6093.6	5585.7	5006.6
25°	14398.3	16256.9	17392.3	17774.3	17392.3	16256.9	14398.3	11862.7	9213.3	7627.3	6002.8
22.5°	24860.0	28204.5	30256.3	30948.1	30256.3	28204.5	24860.0	20323.5	15874.3	11804.5	8581.1
20°	39443.2	44532.2	47672.4	48734.6	47672.4	44532.2	39443.2	32593.4	25950.0	18753.3	13398.0
17.5°	56904.0	63511.0	67621.5	69018.1	67621.5	63511.0	56904.0	48181.7	38834.8	28867.0	20128.9
15°	74975.7	82256.9	86841.3	88409.6	86841.3	82256.9	74975.7	65254.6	53332.6	40975.6	28867.0
12.5°	92403.3	102572.6	109396.8	111750.5	109396.8	102572.6	92403.3	80979.4	68150.2	53332.6	38834.8
10°	111972.1	124955.9	134485.6	137915.3	134485.6	124955.9	111972.1	96284.0	80979.4	65254.6	48181.7
7.5°	131258.0	148785.7	158481.2	161359.7	158481.2	148785.7	131258.0	111972.1	92403.3	74975.7	56904.0
5°	148785.7	164452.2	173419.8	176522.2	173419.8	164452.2	148785.7	124955.9	102572.6	82256.9	63511.0
2.5°	158481.2	173419.8	185867.6	194314.3	185867.6	173419.8	158481.2	134485.6	109396.8	86841.3	67621.5
0°	161359.7	176522.2	194314.3	206167.0	194314.3	176522.2	161359.7	137915.3	111750.5	88409.6	69018.1
-2.5°	158481.2	173419.8	185867.6	194314.3	185867.6	173419.8	158481.2	134485.6	109396.8	86841.3	67621.5
-5°	148785.7	164452.2	173419.8	176522.2	173419.8	164452.2	148785.7	124955.9	102572.6	82256.9	63511.0
-7.5°	131258.0	148785.7	158481.2	161359.7	158481.2	148785.7	131258.0	111972.1	92403.3	74975.7	56904.0
-10°	111972.1	124955.9	134485.6	137915.3	134485.6	124955.9	111972.1	96284.0	80979.4	65254.6	48181.7
-12.5°	92403.3	102572.6	109396.8	111750.5	109396.8	102572.6	92403.3	80979.4	68150.2	53332.6	38834.8
-15°	74975.7	82256.9	86841.3	88409.6	86841.3	82256.9	74975.7	65254.6	53332.6	40975.6	28867.0
-17.5°	56904.0	63511.0	67621.5	69018.1	67621.5	63511.0	56904.0	48181.7	38834.8	28867.0	20128.9
-20°	39443.2	44532.2	47672.4	48734.6	47672.4	44532.2	39443.2	32593.4	25950.0	18753.3	13398.0



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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°	24860.0	28204.5	30256.3	30948.1	30256.3	28204.5	24860.0	20323.5	15874.3	11804.5	8581.1
-25°	14398.3	16256.9	17392.3	17774.3	17392.3	16256.9	14398.3	11862.7	9213.3	7627.3	6002.8
-27.5°	8294.6	9009.3	9444.6	9590.8	9444.6	9009.3	8294.6	7315.0	6093.6	5585.7	5006.6
-30°	5685.5	5912.1	6049.7	6095.9	6049.7	5912.1	5685.5	5373.9	4982.5	4644.7	4303.3
-32.5°	4633.6	4765.5	4845.4	4872.2	4845.4	4765.5	4633.6	4451.8	4222.6	4010.4	3833.7
-35°	3966.9	4034.4	4075.2	4088.9	4075.2	4034.4	3966.9	3873.7	3755.8	3623.2	3500.5
-37.5°	3565.6	3612.0	3640.1	3649.5	3640.1	3612.0	3565.6	3501.3	3419.8	3322.0	3229.0
-40°	3256.0	3290.7	3311.7	3318.7	3311.7	3290.7	3256.0	3207.9	3146.8	3073.3	2991.6
-42.5°	2994.8	3024.8	3042.9	3048.9	3042.9	3024.8	2994.8	2953.3	2900.4	2836.7	2715.9
-45°	2674.1	2741.1	2781.5	2795.0	2781.5	2741.1	2674.1	2580.9	2462.4	2319.2	2147.3
-47.5°	2041.1	2115.6	2160.6	2175.6	2160.6	2115.6	2041.1	1937.4	1805.2	1645.3	1458.7
-50°	1404.1	1415.2	1422.0	1424.2	1422.0	1415.2	1404.1	1388.5	1368.7	1344.7	1316.7
-52.5°	1279.3	1291.6	1299.0	1301.5	1299.0	1291.6	1279.3	1262.1	1240.2	1213.6	1182.5
-55°	1129.0	1142.5	1150.7	1153.4	1150.7	1142.5	1129.0	1110.2	1086.1	1056.9	1022.6
-57.5°	954.1	965.9	973.0	975.4	973.0	965.9	954.1	937.7	916.7	891.1	861.2
-60°	789.3	798.0	803.2	804.9	803.2	798.0	789.3	777.3	761.8	743.1	721.1
-62.5°	652.7	660.7	665.5	667.1	665.5	660.7	652.7	641.5	627.2	609.8	589.4
-65°	512.9	520.0	524.2	525.6	524.2	520.0	512.9	503.1	490.6	475.3	457.4
-67.5°	378.1	383.0	386.0	387.0	386.0	383.0	378.1	371.2	362.4	351.6	339.0
-70°	269.3	273.7	276.4	277.3	276.4	273.7	269.3	263.1	255.1	245.4	234.0
-72.5°	159.4	162.5	164.3	164.9	164.3	162.5	159.4	155.1	149.7	143.0	135.2
-75°	73.5	74.8	75.6	75.9	75.6	74.8	73.5	71.7	69.4	66.5	63.1
-77.5°	30.3	30.6	30.8	30.9	30.8	30.6	30.3	29.9	29.3	28.6	27.8
-80°	17.6	17.7	17.8	17.8	17.8	17.7	17.6	17.4	17.2	16.9	16.6
-82.5°	11.1	11.1	11.2	11.2	11.2	11.1	11.1	11.0	10.9	10.7	10.6
-85°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.4	6.3
-87.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.5
-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):

	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°	3.5	3.4	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6
85°	6.2	6.2	6.1	5.9	5.8	5.7	5.5	5.4	5.2	5.1	4.9
82.5°	10.4	10.1	9.9	9.6	9.3	9.0	8.7	8.3	8.0	7.6	7.1
80°	16.2	15.8	15.3	14.8	14.2	13.6	13.0	12.3	11.6	10.9	10.4
77.5°	26.9	25.8	24.7	23.4	22.0	20.5	18.9	17.5	16.6	15.6	14.6
75°	59.3	54.9	50.1	44.8	39.0	32.9	29.5	27.5	25.3	23.0	20.7
72.5°	126.2	116.1	104.9	92.6	79.3	70.3	62.6	54.3	45.6	36.5	29.7
70°	221.0	206.3	190.0	172.1	155.3	138.8	121.1	102.4	82.6	68.8	57.8
67.5°	324.5	308.2	290.2	270.2	248.3	224.7	199.5	172.7	148.8	125.3	100.8
65°	436.8	413.7	388.2	365.8	341.8	316.0	288.5	258.9	227.4	194.3	160.9
62.5°	566.1	539.9	511.1	480.0	446.4	410.2	374.9	342.7	308.7	273.0	234.9
60°	696.0	667.8	635.8	600.8	562.9	522.4	480.0	435.3	388.2	348.9	308.2
57.5°	827.0	791.8	757.5	720.2	679.8	635.8	588.5	538.7	487.1	433.4	379.5
55°	983.6	941.3	895.0	844.6	793.0	746.0	696.0	642.7	585.9	526.6	466.1
52.5°	1145.8	1098.1	1045.6	988.4	928.8	865.7	800.0	743.1	683.5	620.0	553.7
50°	1281.3	1238.2	1190.8	1136.4	1069.8	998.8	925.8	850.0	777.3	710.6	640.7
47.5°	1395.2	1356.5	1314.0	1261.0	1201.3	1134.6	1053.8	969.3	884.5	798.0	724.2
45°	1917.5	1661.5	1417.1	1367.5	1314.3	1248.8	1176.9	1091.0	996.6	901.9	804.9
42.5°	2510.9	2283.1	2003.8	1677.2	1408.5	1348.1	1280.9	1200.6	1109.8	1005.8	901.9
40°	2900.8	2800.2	2539.6	2250.9	1893.3	1498.2	1368.6	1297.1	1208.6	1109.8	996.6
37.5°	3124.7	3011.9	2893.9	2727.0	2398.1	2024.8	1584.2	1375.4	1297.1	1200.6	1091.0
35°	3362.6	3230.5	3096.0	2957.7	2814.0	2472.6	2068.9	1584.2	1368.6	1280.9	1176.9
32.5°	3639.2	3475.7	3302.6	3148.8	2990.0	2829.7	2472.6	2024.8	1498.2	1348.1	1248.8
30°	3995.5	3762.0	3545.0	3343.9	3166.6	2990.0	2814.0	2398.1	1893.3	1408.5	1314.3
27.5°	4546.9	4099.5	3826.1	3568.3	3343.9	3148.8	2957.7	2727.0	2250.9	1677.2	1367.5
25°	5308.7	4671.1	4159.3	3826.1	3545.0	3302.6	3096.0	2893.9	2539.6	2003.8	1417.1
22.5°	6439.6	5410.8	4671.1	4099.5	3762.0	3475.7	3230.5	3011.9	2800.2	2283.1	1661.5
20°	8904.6	6439.6	5308.7	4546.9	3995.5	3639.2	3362.6	3124.7	2900.8	2510.9	1917.5
17.5°	13398.0	8581.1	6002.8	5006.6	4303.3	3833.7	3500.5	3229.0	2991.6	2715.9	2147.3
15°	18753.3	11804.5	7627.3	5585.7	4644.7	4010.4	3623.2	3322.0	3073.3	2836.7	2319.2
12.5°	25950.0	15874.3	9213.3	6093.6	4982.5	4222.6	3755.8	3419.8	3146.8	2900.4	2462.4
10°	32593.4	20323.5	11862.7	7315.0	5373.9	4451.8	3873.7	3501.3	3207.9	2953.3	2580.9
7.5°	39443.2	24860.0	14398.3	8294.6	5685.5	4633.6	3966.9	3565.6	3256.0	2994.8	2674.1
5°	44532.2	28204.5	16256.9	9009.3	5912.1	4765.5	4034.4	3612.0	3290.7	3024.8	2741.1
2.5°	47672.4	30256.3	17392.3	9444.6	6049.7	4845.4	4075.2	3640.1	3311.7	3042.9	2781.5
0°	48734.6	30948.1	17774.3	9590.8	6095.9	4872.2	4088.9	3649.5	3318.7	3048.9	2795.0
-2.5°	47672.4	30256.3	17392.3	9444.6	6049.7	4845.4	4075.2	3640.1	3311.7	3042.9	2781.5
-5°	44532.2	28204.5	16256.9	9009.3	5912.1	4765.5	4034.4	3612.0	3290.7	3024.8	2741.1
-7.5°	39443.2	24860.0	14398.3	8294.6	5685.5	4633.6	3966.9	3565.6	3256.0	2994.8	2674.1
-10°	32593.4	20323.5	11862.7	7315.0	5373.9	4451.8	3873.7	3501.3	3207.9	2953.3	2580.9
-12.5°	25950.0	15874.3	9213.3	6093.6	4982.5	4222.6	3755.8	3419.8	3146.8	2900.4	2462.4
-15°	18753.3	11804.5	7627.3	5585.7	4644.7	4010.4	3623.2	3322.0	3073.3	2836.7	2319.2
-17.5°	13398.0	8581.1	6002.8	5006.6	4303.3	3833.7	3500.5	3229.0	2991.6	2715.9	2147.3
-20°	8904.6	6439.6	5308.7	4546.9	3995.5	3639.2	3362.6	3124.7	2900.8	2510.9	1917.5



REPORT NUMBER: P701399 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	6439.6	5410.8	4671.1	4099.5	3762.0	3475.7	3230.5	3011.9	2800.2	2283.1	1661.5
-25°	5308.7	4671.1	4159.3	3826.1	3545.0	3302.6	3096.0	2893.9	2539.6	2003.8	1417.1
-27.5°	4546.9	4099.5	3826.1	3568.3	3343.9	3148.8	2957.7	2727.0	2250.9	1677.2	1367.5
-30°	3995.5	3762.0	3545.0	3343.9	3166.6	2990.0	2814.0	2398.1	1893.3	1408.5	1314.3
-32.5°	3639.2	3475.7	3302.6	3148.8	2990.0	2829.7	2472.6	2024.8	1498.2	1348.1	1248.8
-35°	3362.6	3230.5	3096.0	2957.7	2814.0	2472.6	2068.9	1584.2	1368.6	1280.9	1176.9
-37.5°	3124.7	3011.9	2893.9	2727.0	2398.1	2024.8	1584.2	1375.4	1297.1	1200.6	1091.0
-40°	2900.8	2800.2	2539.6	2250.9	1893.3	1498.2	1368.6	1297.1	1208.6	1109.8	996.6
-42.5°	2510.9	2283.1	2003.8	1677.2	1408.5	1348.1	1280.9	1200.6	1109.8	1005.8	901.9
-45°	1917.5	1661.5	1417.1	1367.5	1314.3	1248.8	1176.9	1091.0	996.6	901.9	804.9
-47.5°	1395.2	1356.5	1314.0	1261.0	1201.3	1134.6	1053.8	969.3	884.5	798.0	724.2
-50°	1281.3	1238.2	1190.8	1136.4	1069.8	998.8	925.8	850.0	777.3	710.6	640.7
-52.5°	1145.8	1098.1	1045.6	988.4	928.8	865.7	800.0	743.1	683.5	620.0	553.7
-55°	983.6	941.3	895.0	844.6	793.0	746.0	696.0	642.7	585.9	526.6	466.1
-57.5°	827.0	791.8	757.5	720.2	679.8	635.8	588.5	538.7	487.1	433.4	379.5
-60°	696.0	667.8	635.8	600.8	562.9	522.4	480.0	435.3	388.2	348.9	308.2
-62.5°	566.1	539.9	511.1	480.0	446.4	410.2	374.9	342.7	308.7	273.0	234.9
-65°	436.8	413.7	388.2	365.8	341.8	316.0	288.5	258.9	227.4	194.3	160.9
-67.5°	324.5	308.2	290.2	270.2	248.3	224.7	199.5	172.7	148.8	125.3	100.8
-70°	221.0	206.3	190.0	172.1	155.3	138.8	121.1	102.4	82.6	68.8	57.8
-72.5°	126.2	116.1	104.9	92.6	79.3	70.3	62.6	54.3	45.6	36.5	29.7
-75°	59.3	54.9	50.1	44.8	39.0	32.9	29.5	27.5	25.3	23.0	20.7
-77.5°	26.9	25.8	24.7	23.4	22.0	20.5	18.9	17.5	16.6	15.6	14.6
-80°	16.2	15.8	15.3	14.8	14.2	13.6	13.0	12.3	11.6	10.9	10.4
-82.5°	10.4	10.1	9.9	9.6	9.3	9.0	8.7	8.3	8.0	7.6	7.1
-85°	6.2	6.2	6.1	5.9	5.8	5.7	5.5	5.4	5.2	5.1	4.9
-87.5°	3.5	3.4	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6
-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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 CATALOG NUMBER: EPH-LS-08-0320L-40-80-3S-HEG-S

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°	2.5	2.4	2.3	2.1	2.0	1.8	1.7	1.6	1.4	1.3	1.1
85°	4.7	4.5	4.3	4.1	3.9	3.7	3.4	3.1	2.8	2.5	2.2
82.5°	6.7	6.4	6.1	5.8	5.5	5.1	4.8	4.5	4.1	3.8	3.3
80°	9.8	9.2	8.6	7.9	7.3	6.6	6.1	5.7	5.2	4.7	4.3
77.5°	13.6	12.5	11.4	10.5	9.7	8.8	8.0	7.1	6.3	5.7	5.1
75°	18.2	16.7	15.3	13.9	12.5	11.1	10.0	9.0	7.9	6.7	6.0
72.5°	26.8	23.8	20.7	17.6	15.9	14.2	12.5	10.8	9.6	8.3	6.9
70°	46.4	34.5	28.4	24.7	20.9	17.4	15.4	13.3	11.3	9.8	8.3
67.5°	75.6	62.2	48.4	34.1	27.6	23.2	18.7	16.0	13.6	11.3	9.6
65°	132.5	103.1	74.3	58.4	42.1	29.3	24.4	19.3	16.0	13.3	10.8
62.5°	195.3	156.6	123.1	88.6	64.5	46.2	29.9	24.4	18.7	15.4	12.5
60°	265.7	221.0	174.8	135.2	96.7	66.5	46.2	29.3	23.2	17.4	14.2
57.5°	333.7	286.3	236.5	185.1	139.3	96.7	64.5	42.1	27.6	20.9	15.9
55°	403.6	349.0	296.5	241.7	185.1	135.2	88.6	58.4	34.1	24.7	17.6
52.5°	486.0	416.7	354.2	296.5	236.5	174.8	123.1	74.3	48.4	28.4	20.7
50°	567.4	492.6	416.7	349.0	286.3	221.0	156.6	103.1	62.2	34.5	23.8
47.5°	647.7	567.4	486.0	403.6	333.7	265.7	195.3	132.5	75.6	46.4	26.8
45°	724.2	640.7	553.7	466.1	379.5	308.2	234.9	160.9	100.8	57.8	29.7
42.5°	798.0	710.6	620.0	526.6	433.4	348.9	273.0	194.3	125.3	68.8	36.5
40°	884.5	777.3	683.5	585.9	487.1	388.2	308.7	227.4	148.8	82.6	45.6
37.5°	969.3	850.0	743.1	642.7	538.7	435.3	342.7	258.9	172.7	102.4	54.3
35°	1053.8	925.8	800.0	696.0	588.5	480.0	374.9	288.5	199.5	121.1	62.6
32.5°	1134.6	998.8	865.7	746.0	635.8	522.4	410.2	316.0	224.7	138.8	70.3
30°	1201.3	1069.8	928.8	793.0	679.8	562.9	446.4	341.8	248.3	155.3	79.3
27.5°	1261.0	1136.4	988.4	844.6	720.2	600.8	480.0	365.8	270.2	172.1	92.6
25°	1314.0	1190.8	1045.6	895.0	757.5	635.8	511.1	388.2	290.2	190.0	104.9
22.5°	1356.5	1238.2	1098.1	941.3	791.8	667.8	539.9	413.7	308.2	206.3	116.1
20°	1395.2	1281.3	1145.8	983.6	827.0	696.0	566.1	436.8	324.5	221.0	126.2
17.5°	1458.7	1316.7	1182.5	1022.6	861.2	721.1	589.4	457.4	339.0	234.0	135.2
15°	1645.3	1344.7	1213.6	1056.9	891.1	743.1	609.8	475.3	351.6	245.4	143.0
12.5°	1805.2	1368.7	1240.2	1086.1	916.7	761.8	627.2	490.6	362.4	255.1	149.7
10°	1937.4	1388.5	1262.1	1110.2	937.7	777.3	641.5	503.1	371.2	263.1	155.1
7.5°	2041.1	1404.1	1279.3	1129.0	954.1	789.3	652.7	512.9	378.1	269.3	159.4
5°	2115.6	1415.2	1291.6	1142.5	965.9	798.0	660.7	520.0	383.0	273.7	162.5
2.5°	2160.6	1422.0	1299.0	1150.7	973.0	803.2	665.5	524.2	386.0	276.4	164.3
0°	2175.6	1424.2	1301.5	1153.4	975.4	804.9	667.1	525.6	387.0	277.3	164.9
-2.5°	2160.6	1422.0	1299.0	1150.7	973.0	803.2	665.5	524.2	386.0	276.4	164.3
-5°	2115.6	1415.2	1291.6	1142.5	965.9	798.0	660.7	520.0	383.0	273.7	162.5
-7.5°	2041.1	1404.1	1279.3	1129.0	954.1	789.3	652.7	512.9	378.1	269.3	159.4
-10°	1937.4	1388.5	1262.1	1110.2	937.7	777.3	641.5	503.1	371.2	263.1	155.1
-12.5°	1805.2	1368.7	1240.2	1086.1	916.7	761.8	627.2	490.6	362.4	255.1	149.7
-15°	1645.3	1344.7	1213.6	1056.9	891.1	743.1	609.8	475.3	351.6	245.4	143.0
-17.5°	1458.7	1316.7	1182.5	1022.6	861.2	721.1	589.4	457.4	339.0	234.0	135.2
-20°	1395.2	1281.3	1145.8	983.6	827.0	696.0	566.1	436.8	324.5	221.0	126.2



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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°	1356.5	1238.2	1098.1	941.3	791.8	667.8	539.9	413.7	308.2	206.3	116.1
-25°	1314.0	1190.8	1045.6	895.0	757.5	635.8	511.1	388.2	290.2	190.0	104.9
-27.5°	1261.0	1136.4	988.4	844.6	720.2	600.8	480.0	365.8	270.2	172.1	92.6
-30°	1201.3	1069.8	928.8	793.0	679.8	562.9	446.4	341.8	248.3	155.3	79.3
-32.5°	1134.6	998.8	865.7	746.0	635.8	522.4	410.2	316.0	224.7	138.8	70.3
-35°	1053.8	925.8	800.0	696.0	588.5	480.0	374.9	288.5	199.5	121.1	62.6
-37.5°	969.3	850.0	743.1	642.7	538.7	435.3	342.7	258.9	172.7	102.4	54.3
-40°	884.5	777.3	683.5	585.9	487.1	388.2	308.7	227.4	148.8	82.6	45.6
-42.5°	798.0	710.6	620.0	526.6	433.4	348.9	273.0	194.3	125.3	68.8	36.5
-45°	724.2	640.7	553.7	466.1	379.5	308.2	234.9	160.9	100.8	57.8	29.7
-47.5°	647.7	567.4	486.0	403.6	333.7	265.7	195.3	132.5	75.6	46.4	26.8
-50°	567.4	492.6	416.7	349.0	286.3	221.0	156.6	103.1	62.2	34.5	23.8
-52.5°	486.0	416.7	354.2	296.5	236.5	174.8	123.1	74.3	48.4	28.4	20.7
-55°	403.6	349.0	296.5	241.7	185.1	135.2	88.6	58.4	34.1	24.7	17.6
-57.5°	333.7	286.3	236.5	185.1	139.3	96.7	64.5	42.1	27.6	20.9	15.9
-60°	265.7	221.0	174.8	135.2	96.7	66.5	46.2	29.3	23.2	17.4	14.2
-62.5°	195.3	156.6	123.1	88.6	64.5	46.2	29.9	24.4	18.7	15.4	12.5
-65°	132.5	103.1	74.3	58.4	42.1	29.3	24.4	19.3	16.0	13.3	10.8
-67.5°	75.6	62.2	48.4	34.1	27.6	23.2	18.7	16.0	13.6	11.3	9.6
-70°	46.4	34.5	28.4	24.7	20.9	17.4	15.4	13.3	11.3	9.8	8.3
-72.5°	26.8	23.8	20.7	17.6	15.9	14.2	12.5	10.8	9.6	8.3	6.9
-75°	18.2	16.7	15.3	13.9	12.5	11.1	10.0	9.0	7.9	6.7	6.0
-77.5°	13.6	12.5	11.4	10.5	9.7	8.8	8.0	7.1	6.3	5.7	5.1
-80°	9.8	9.2	8.6	7.9	7.3	6.6	6.1	5.7	5.2	4.7	4.3
-82.5°	6.7	6.4	6.1	5.8	5.5	5.1	4.8	4.5	4.1	3.8	3.3
-85°	4.7	4.5	4.3	4.1	3.9	3.7	3.4	3.1	2.8	2.5	2.2
-87.5°	2.5	2.4	2.3	2.1	2.0	1.8	1.7	1.6	1.4	1.3	1.1
-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°	1.0	0.8	0.6	0.5	0.3	0.2	0.0
85°	1.9	1.6	1.3	1.0	0.6	0.3	0.0
82.5°	2.9	2.4	1.9	1.4	1.0	0.5	0.0
80°	3.8	3.2	2.6	1.9	1.3	0.6	0.0
77.5°	4.5	3.9	3.2	2.4	1.6	0.8	0.0
75°	5.3	4.5	3.8	2.9	1.9	1.0	0.0
72.5°	6.0	5.1	4.3	3.3	2.2	1.1	0.0
70°	6.7	5.7	4.7	3.8	2.5	1.3	0.0
67.5°	7.9	6.3	5.2	4.1	2.8	1.4	0.0
65°	9.0	7.1	5.7	4.5	3.1	1.6	0.0
62.5°	10.0	8.0	6.1	4.8	3.4	1.7	0.0
60°	11.1	8.8	6.6	5.1	3.7	1.8	0.0
57.5°	12.5	9.7	7.3	5.5	3.9	2.0	0.0
55°	13.9	10.5	7.9	5.8	4.1	2.1	0.0
52.5°	15.3	11.4	8.6	6.1	4.3	2.3	0.0
50°	16.7	12.5	9.2	6.4	4.5	2.4	0.0
47.5°	18.2	13.6	9.8	6.7	4.7	2.5	0.0
45°	20.7	14.6	10.4	7.1	4.9	2.6	0.0
42.5°	23.0	15.6	10.9	7.6	5.1	2.7	0.0
40°	25.3	16.6	11.6	8.0	5.2	2.8	0.0
37.5°	27.5	17.5	12.3	8.3	5.4	2.9	0.0
35°	29.5	18.9	13.0	8.7	5.5	3.0	0.0
32.5°	32.9	20.5	13.6	9.0	5.7	3.1	0.0
30°	39.0	22.0	14.2	9.3	5.8	3.2	0.0
27.5°	44.8	23.4	14.8	9.6	5.9	3.3	0.0
25°	50.1	24.7	15.3	9.9	6.1	3.4	0.0
22.5°	54.9	25.8	15.8	10.1	6.2	3.4	0.0
20°	59.3	26.9	16.2	10.4	6.2	3.5	0.0
17.5°	63.1	27.8	16.6	10.6	6.3	3.5	0.0
15°	66.5	28.6	16.9	10.7	6.4	3.6	0.0
12.5°	69.4	29.3	17.2	10.9	6.5	3.6	0.0
10°	71.7	29.9	17.4	11.0	6.5	3.6	0.0
7.5°	73.5	30.3	17.6	11.1	6.6	3.7	0.0
5°	74.8	30.6	17.7	11.1	6.6	3.7	0.0
2.5°	75.6	30.8	17.8	11.2	6.6	3.7	0.0
0°	75.9	30.9	17.8	11.2	6.6	3.7	0.0
-2.5°	75.6	30.8	17.8	11.2	6.6	3.7	0.0
-5°	74.8	30.6	17.7	11.1	6.6	3.7	0.0
-7.5°	73.5	30.3	17.6	11.1	6.6	3.7	0.0
-10°	71.7	29.9	17.4	11.0	6.5	3.6	0.0
-12.5°	69.4	29.3	17.2	10.9	6.5	3.6	0.0
-15°	66.5	28.6	16.9	10.7	6.4	3.6	0.0
-17.5°	63.1	27.8	16.6	10.6	6.3	3.5	0.0
-20°	59.3	26.9	16.2	10.4	6.2	3.5	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	54.9	25.8	15.8	10.1	6.2	3.4	0.0
-25°	50.1	24.7	15.3	9.9	6.1	3.4	0.0
-27.5°	44.8	23.4	14.8	9.6	5.9	3.3	0.0
-30°	39.0	22.0	14.2	9.3	5.8	3.2	0.0
-32.5°	32.9	20.5	13.6	9.0	5.7	3.1	0.0
-35°	29.5	18.9	13.0	8.7	5.5	3.0	0.0
-37.5°	27.5	17.5	12.3	8.3	5.4	2.9	0.0
-40°	25.3	16.6	11.6	8.0	5.2	2.8	0.0
-42.5°	23.0	15.6	10.9	7.6	5.1	2.7	0.0
-45°	20.7	14.6	10.4	7.1	4.9	2.6	0.0
-47.5°	18.2	13.6	9.8	6.7	4.7	2.5	0.0
-50°	16.7	12.5	9.2	6.4	4.5	2.4	0.0
-52.5°	15.3	11.4	8.6	6.1	4.3	2.3	0.0
-55°	13.9	10.5	7.9	5.8	4.1	2.1	0.0
-57.5°	12.5	9.7	7.3	5.5	3.9	2.0	0.0
-60°	11.1	8.8	6.6	5.1	3.7	1.8	0.0
-62.5°	10.0	8.0	6.1	4.8	3.4	1.7	0.0
-65°	9.0	7.1	5.7	4.5	3.1	1.6	0.0
-67.5°	7.9	6.3	5.2	4.1	2.8	1.4	0.0
-70°	6.7	5.7	4.7	3.8	2.5	1.3	0.0
-72.5°	6.0	5.1	4.3	3.3	2.2	1.1	0.0
-75°	5.3	4.5	3.8	2.9	1.9	1.0	0.0
-77.5°	4.5	3.9	3.2	2.4	1.6	0.8	0.0
-80°	3.8	3.2	2.6	1.9	1.3	0.6	0.0
-82.5°	2.9	2.4	1.9	1.4	1.0	0.5	0.0
-85°	1.9	1.6	1.3	1.0	0.6	0.3	0.0
-87.5°	1.0	0.8	0.6	0.5	0.3	0.2	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

