

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: P701429 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-40-70-3S-HEG-S**

Issue Date: 8/15/2023

Test Information

Test Method: LM-79-08
Report Number: P701429 (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-08-0640L-40-70-3S-HEG-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 3S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

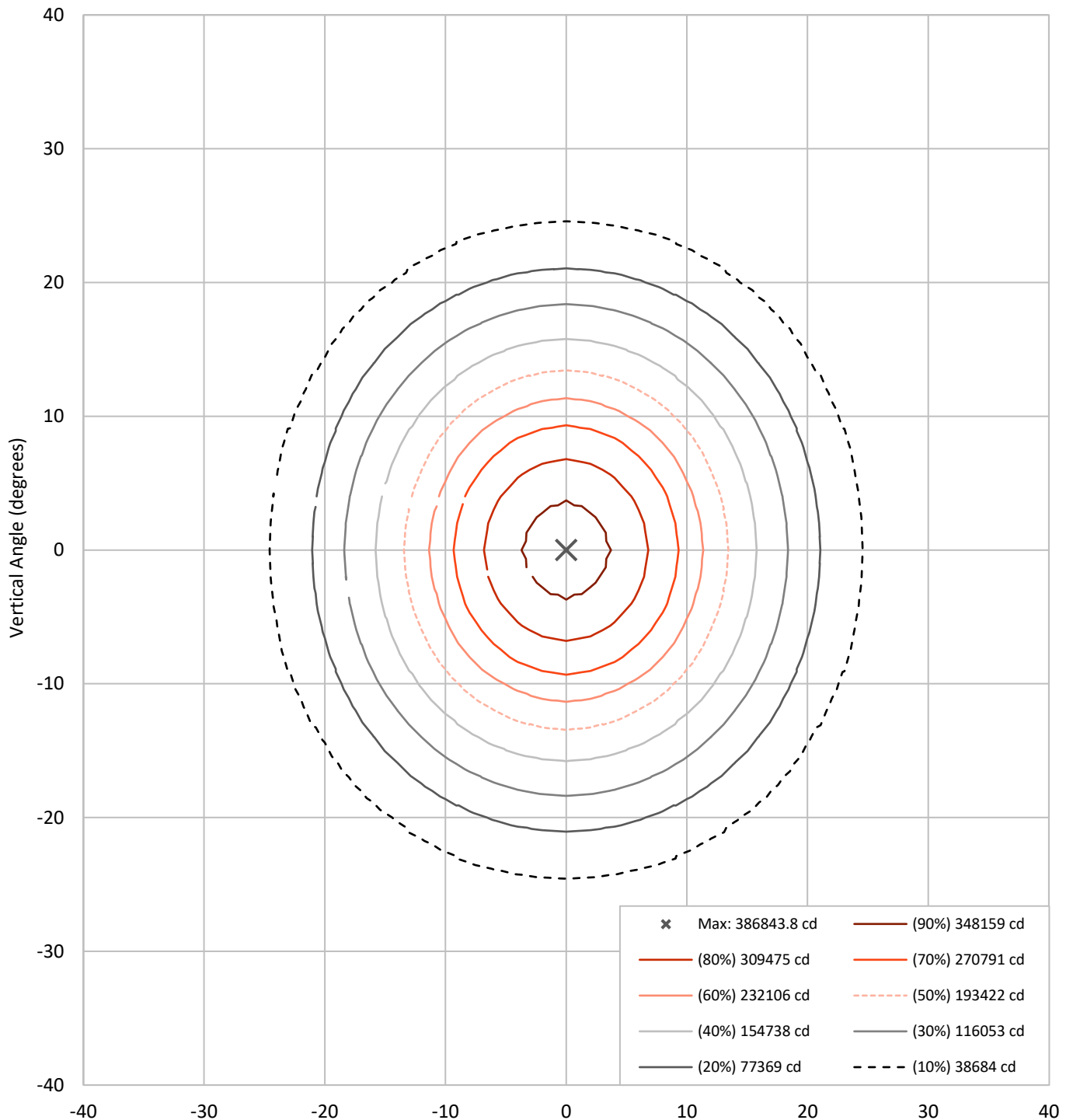
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	104481.4 lumens	Max Intensity:	386843.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	158.8 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:	45301.5 lumens	Field Lumens:	86729.8 lumens
Beam Efficiency:	43.4%	Field Efficiency:	83.0%

Input Watts (W): 658
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





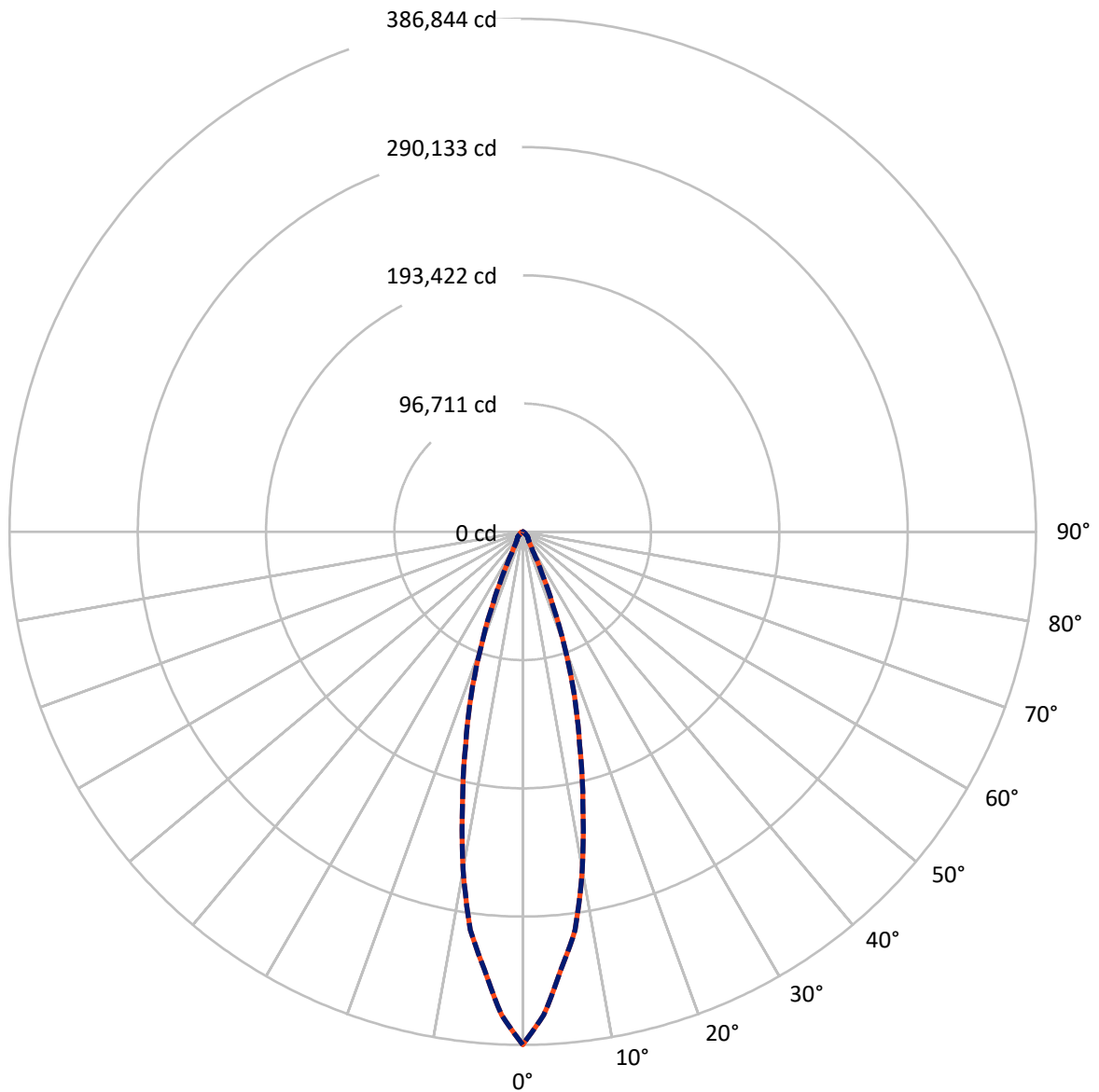
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Lumen Table

90																
80	0.1	0.9		3.6		9.5		12.6		9.5		3.6		0.9		0.1
70																
60	0.4	0.5	2.3	6.9	13.6	20.7	26.5	29.7	29.7	26.5	20.7	13.6	6.9	2.3	0.5	0.4
50		1.7	8.1	19.0	32.7	46.6	57.8	63.9	63.9	57.8	46.6	32.7	19.0	8.1	1.7	
40	1.2	4.3	15.6	33.1	54.7	86.2	123.3	144.7	144.7	123.3	86.2	54.7	33.1	15.6	4.3	1.2
30		7.3	23.1	47.4	96.6	159.1	204.6	240.3	240.3	204.6	159.1	96.6	47.4	23.1	7.3	
20	2.8	10.0	29.8	67.8	144.0	228.0	527.1	1084.1	1084.1	527.1	228.0	144.0	67.8	29.8	10.0	2.8
10		12.0	34.7	91.3	174.1	497.6	2305.9	4617.7	4617.7	2305.9	497.6	174.1	91.3	34.7	12.0	
0	3.5	13.0	37.2	103.7	198.7	997.9	4491.3	8857.8	8857.8	4491.3	997.9	198.7	103.7	37.2	13.0	3.5
-10		13.0	37.2	103.7	198.7	997.9	4491.3	8857.8	8857.8	4491.3	997.9	198.7	103.7	37.2	13.0	
-20	2.8	12.0	34.7	91.3	174.1	497.6	2305.9	4617.7	4617.7	2305.9	497.6	174.1	91.3	34.7	12.0	2.8
-30		10.0	29.8	67.8	144.0	228.0	527.1	1084.1	1084.1	527.1	228.0	144.0	67.8	29.8	10.0	
-40	1.2	7.3	23.1	47.4	96.6	159.1	204.6	240.3	240.3	204.6	159.1	96.6	47.4	23.1	7.3	1.2
-50		4.3	15.6	33.1	54.7	86.2	123.3	144.7	144.7	123.3	86.2	54.7	33.1	15.6	4.3	
-60	0.4	1.7	8.1	19.0	32.7	46.6	57.8	63.9	63.9	57.8	46.6	32.7	19.0	8.1	1.7	0.4
-70		0.5	2.3	6.9	13.6	20.7	26.5	29.7	29.7	26.5	20.7	13.6	6.9	2.3	0.5	
-80																
-90	0.1	0.9		3.6		9.5		12.6		9.5		3.6		0.9		0.1

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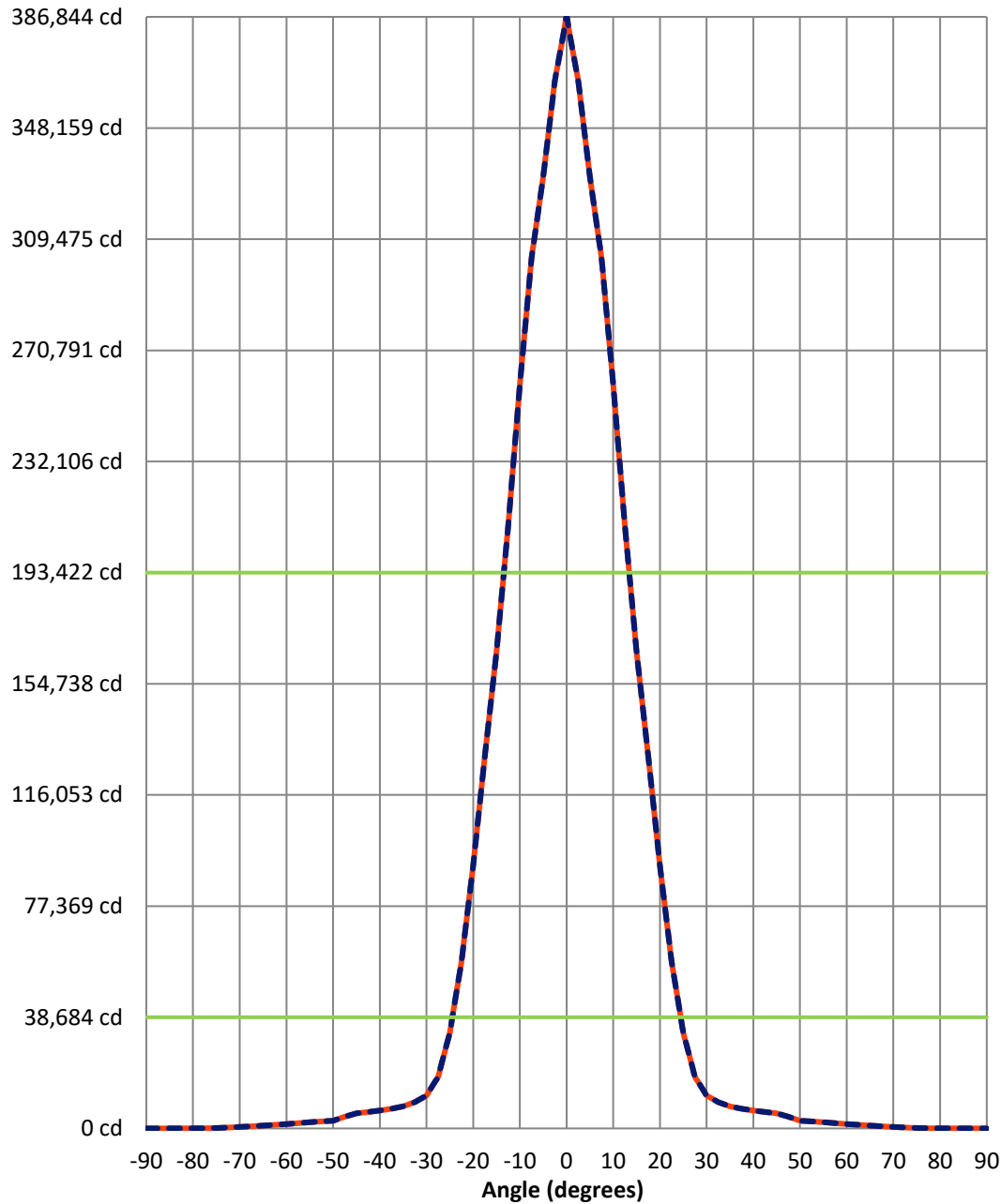
Luminous Intensity Polar Plot



— 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: 45301.5
 Efficiency: 43.4%

Field:
 H Angle: 48.9°
 V Angle: 48.9°
 Lumens: 86729.8
 Efficiency: 83.0%

Spill:
 Lumens: 17751.6
 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	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0
85°	0.0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	5.9
82.5°	0.0	0.9	1.8	2.7	3.6	4.5	5.4	6.3	7.1	7.8	8.4
80°	0.0	1.2	2.4	3.6	4.8	6.0	7.2	8.0	8.9	9.8	10.6
77.5°	0.0	1.5	3.0	4.5	6.0	7.4	8.5	9.6	10.7	11.8	13.2
75°	0.0	1.8	3.6	5.4	7.2	8.5	9.8	11.2	12.6	14.7	16.8
72.5°	0.0	2.1	4.2	6.3	8.0	9.6	11.2	13.0	15.5	18.0	20.4
70°	0.0	2.4	4.8	7.1	8.9	10.7	12.6	15.5	18.3	21.2	25.1
67.5°	0.0	2.7	5.4	7.8	9.8	11.8	14.7	18.0	21.2	25.6	30.0
65°	0.0	3.0	5.9	8.4	10.6	13.2	16.8	20.4	25.1	30.0	36.2
62.5°	0.0	3.2	6.5	9.0	11.4	14.9	18.9	23.5	28.9	35.1	45.7
60°	0.0	3.5	7.0	9.6	12.3	16.6	20.9	26.7	32.6	43.5	55.0
57.5°	0.0	3.8	7.4	10.2	13.5	18.2	23.5	29.9	39.2	51.8	79.1
55°	0.0	4.0	7.8	10.8	14.8	19.8	26.2	33.1	46.3	64.1	109.6
52.5°	0.0	4.3	8.1	11.4	16.1	21.5	28.8	38.8	53.3	90.8	139.3
50°	0.0	4.5	8.5	11.9	17.3	23.5	31.3	44.7	64.8	116.7	193.3
47.5°	0.0	4.7	8.9	12.5	18.4	25.6	34.1	50.3	87.0	141.8	248.6
45°	0.0	4.9	9.2	13.3	19.5	27.5	38.8	55.8	108.5	189.2	301.9
42.5°	0.0	5.2	9.5	14.1	20.6	29.4	43.2	68.4	129.1	235.1	364.7
40°	0.0	5.4	9.8	14.9	21.8	31.2	47.5	85.6	155.0	279.1	426.7
37.5°	0.0	5.6	10.1	15.6	23.2	32.8	51.6	102.0	192.1	324.1	485.8
35°	0.0	5.7	10.4	16.3	24.4	35.5	55.4	117.4	227.2	374.3	541.3
32.5°	0.0	5.9	10.6	16.9	25.6	38.5	61.7	132.0	260.3	421.6	592.9
30°	0.0	6.1	10.9	17.5	26.8	41.3	73.3	148.7	291.3	465.9	641.3
27.5°	0.0	6.2	11.1	18.1	27.8	43.9	84.1	173.8	322.9	507.2	686.3
25°	0.0	6.3	11.3	18.6	28.7	46.3	94.0	196.8	356.5	544.5	728.3
22.5°	0.0	6.5	11.5	19.1	29.6	48.5	103.1	217.9	387.1	578.4	776.3
20°	0.0	6.6	11.7	19.5	30.4	50.5	111.2	236.8	414.7	608.9	819.7
17.5°	0.0	6.7	11.8	19.9	31.1	52.2	118.5	253.7	439.2	636.1	858.2
15°	0.0	6.8	11.9	20.2	31.7	53.7	124.8	268.3	460.6	659.8	891.9
12.5°	0.0	6.8	12.0	20.5	32.2	55.0	130.1	280.8	478.7	679.9	920.6
10°	0.0	6.9	12.1	20.7	32.6	56.1	134.5	291.1	493.7	696.5	944.1
7.5°	0.0	6.9	12.2	20.9	33.0	56.9	138.0	299.1	505.4	709.4	962.5
5°	0.0	7.0	12.3	21.0	33.2	57.5	140.4	304.8	513.7	718.7	975.7
2.5°	0.0	7.0	12.3	21.1	33.4	57.9	141.9	308.3	518.7	724.2	983.7
0°	0.0	7.0	12.3	21.1	33.4	57.9	141.9	308.3	518.7	724.2	983.7
-2.5°	0.0	7.0	12.3	21.1	33.4	57.9	141.9	308.3	518.7	724.2	983.7
-5°	0.0	7.0	12.3	21.0	33.2	57.5	140.4	304.8	513.7	718.7	975.7
-7.5°	0.0	6.9	12.2	20.9	33.0	56.9	138.0	299.1	505.4	709.4	962.5
-10°	0.0	6.9	12.1	20.7	32.6	56.1	134.5	291.1	493.7	696.5	944.1
-12.5°	0.0	6.8	12.0	20.5	32.2	55.0	130.1	280.8	478.7	679.9	920.6
-15°	0.0	6.8	11.9	20.2	31.7	53.7	124.8	268.3	460.6	659.8	891.9
-17.5°	0.0	6.7	11.8	19.9	31.1	52.2	118.5	253.7	439.2	636.1	858.2
-20°	0.0	6.6	11.7	19.5	30.4	50.5	111.2	236.8	414.7	608.9	819.7



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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	6.5	11.5	19.1	29.6	48.5	103.1	217.9	387.1	578.4	776.3
-25°	0.0	6.3	11.3	18.6	28.7	46.3	94.0	196.8	356.5	544.5	728.3
-27.5°	0.0	6.2	11.1	18.1	27.8	43.9	84.1	173.8	322.9	507.2	686.3
-30°	0.0	6.1	10.9	17.5	26.8	41.3	73.3	148.7	291.3	465.9	641.3
-32.5°	0.0	5.9	10.6	16.9	25.6	38.5	61.7	132.0	260.3	421.6	592.9
-35°	0.0	5.7	10.4	16.3	24.4	35.5	55.4	117.4	227.2	374.3	541.3
-37.5°	0.0	5.6	10.1	15.6	23.2	32.8	51.6	102.0	192.1	324.1	485.8
-40°	0.0	5.4	9.8	14.9	21.8	31.2	47.5	85.6	155.0	279.1	426.7
-42.5°	0.0	5.2	9.5	14.1	20.6	29.4	43.2	68.4	129.1	235.1	364.7
-45°	0.0	4.9	9.2	13.3	19.5	27.5	38.8	55.8	108.5	189.2	301.9
-47.5°	0.0	4.7	8.9	12.5	18.4	25.6	34.1	50.3	87.0	141.8	248.6
-50°	0.0	4.5	8.5	11.9	17.3	23.5	31.3	44.7	64.8	116.7	193.3
-52.5°	0.0	4.3	8.1	11.4	16.1	21.5	28.8	38.8	53.3	90.8	139.3
-55°	0.0	4.0	7.8	10.8	14.8	19.8	26.2	33.1	46.3	64.1	109.6
-57.5°	0.0	3.8	7.4	10.2	13.5	18.2	23.5	29.9	39.2	51.8	79.1
-60°	0.0	3.5	7.0	9.6	12.3	16.6	20.9	26.7	32.6	43.5	55.0
-62.5°	0.0	3.2	6.5	9.0	11.4	14.9	18.9	23.5	28.9	35.1	45.7
-65°	0.0	3.0	5.9	8.4	10.6	13.2	16.8	20.4	25.1	30.0	36.2
-67.5°	0.0	2.7	5.4	7.8	9.8	11.8	14.7	18.0	21.2	25.6	30.0
-70°	0.0	2.4	4.8	7.1	8.9	10.7	12.6	15.5	18.3	21.2	25.1
-72.5°	0.0	2.1	4.2	6.3	8.0	9.6	11.2	13.0	15.5	18.0	20.4
-75°	0.0	1.8	3.6	5.4	7.2	8.5	9.8	11.2	12.6	14.7	16.8
-77.5°	0.0	1.5	3.0	4.5	6.0	7.4	8.5	9.6	10.7	11.8	13.2
-80°	0.0	1.2	2.4	3.6	4.8	6.0	7.2	8.0	8.9	9.8	10.6
-82.5°	0.0	0.9	1.8	2.7	3.6	4.5	5.4	6.3	7.1	7.8	8.4
-85°	0.0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	5.9
-87.5°	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0
-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°	3.2	3.5	3.8	4.0	4.3	4.5	4.7	4.9	5.2	5.4	5.6
85°	6.5	7.0	7.4	7.8	8.1	8.5	8.9	9.2	9.5	9.8	10.1
82.5°	9.0	9.6	10.2	10.8	11.4	11.9	12.5	13.3	14.1	14.9	15.6
80°	11.4	12.3	13.5	14.8	16.1	17.3	18.4	19.5	20.6	21.8	23.2
77.5°	14.9	16.6	18.2	19.8	21.5	23.5	25.6	27.5	29.4	31.2	32.8
75°	18.9	20.9	23.5	26.2	28.8	31.3	34.1	38.8	43.2	47.5	51.6
72.5°	23.5	26.7	29.9	33.1	38.8	44.7	50.3	55.8	68.4	85.6	102.0
70°	28.9	32.6	39.2	46.3	53.3	64.8	87.0	108.5	129.1	155.0	192.1
67.5°	35.1	43.5	51.8	64.1	90.8	116.7	141.8	189.2	235.1	279.1	324.1
65°	45.7	55.0	79.1	109.6	139.3	193.3	248.6	301.9	364.7	426.7	485.8
62.5°	56.1	86.6	121.0	166.3	230.9	293.8	366.5	440.8	512.3	579.2	643.0
60°	86.6	124.8	181.4	253.7	328.0	414.7	498.7	578.4	654.7	728.3	816.7
57.5°	121.0	181.4	261.3	347.4	443.8	537.2	626.1	712.0	813.2	914.0	1010.8
55°	166.3	253.7	347.4	453.5	556.3	654.9	757.2	874.7	988.1	1099.4	1205.9
52.5°	230.9	328.0	443.8	556.3	664.6	781.9	911.9	1039.1	1163.5	1282.5	1394.3
50°	293.8	414.7	537.2	654.9	781.9	924.3	1064.7	1202.3	1333.3	1458.4	1594.8
47.5°	366.5	498.7	626.1	757.2	911.9	1064.7	1215.3	1358.9	1497.2	1659.6	1818.7
45°	440.8	578.4	712.0	874.7	1039.1	1202.3	1358.9	1510.2	1692.2	1870.0	2047.2
42.5°	512.3	654.7	813.2	988.1	1163.5	1333.3	1497.2	1692.2	1887.3	2082.4	2252.8
40°	579.2	728.3	914.0	1099.4	1282.5	1458.4	1659.6	1870.0	2082.4	2267.8	2433.8
37.5°	643.0	816.7	1010.8	1205.9	1394.3	1594.8	1818.7	2047.2	2252.8	2433.8	2580.8
35°	703.5	900.8	1104.4	1306.0	1501.1	1737.0	1977.3	2208.2	2403.4	2567.9	2972.5
32.5°	769.7	980.2	1193.0	1399.7	1624.4	1874.0	2128.8	2343.1	2529.4	2811.2	3799.3
30°	837.6	1056.3	1275.6	1487.9	1742.7	2007.3	2254.0	2466.1	2642.8	3552.6	4499.8
27.5°	900.8	1127.3	1351.3	1584.7	1854.5	2132.3	2366.1	2565.9	3147.1	4223.5	5116.9
25°	959.1	1193.0	1421.4	1679.3	1961.9	2234.3	2465.5	2659.0	3759.9	4765.3	5430.0
22.5°	1013.1	1253.1	1485.6	1766.2	2060.5	2323.2	2545.3	3117.6	4284.0	5254.1	5651.3
20°	1062.3	1306.0	1551.7	1845.5	2149.9	2404.1	2617.8	3597.9	4711.4	5442.9	5863.2
17.5°	1106.1	1353.1	1615.9	1918.8	2218.8	2470.5	2737.1	4029.3	5095.9	5613.3	6058.8
15°	1144.4	1394.3	1672.1	1983.1	2277.2	2523.1	3087.2	4351.7	5322.6	5766.7	6233.3
12.5°	1177.0	1429.5	1720.0	2037.9	2327.0	2568.2	3387.2	4620.3	5442.2	5904.6	6416.9
10°	1203.8	1458.4	1759.4	2083.1	2368.1	2605.4	3635.3	4842.8	5541.4	6019.3	6569.7
7.5°	1224.7	1481.0	1790.3	2118.4	2400.3	2634.5	3829.9	5017.5	5619.4	6109.6	6690.4
5°	1239.8	1497.2	1812.4	2143.8	2423.4	2655.5	3969.8	5143.2	5675.6	6174.7	6777.5
2.5°	1248.8	1506.9	1825.8	2159.1	2437.4	2668.1	4054.1	5219.1	5709.5	6214.0	6830.2
0°	1251.8	1510.2	1830.2	2164.2	2442.0	2672.3	4082.3	5244.4	5720.8	6227.2	6847.8
-2.5°	1248.8	1506.9	1825.8	2159.1	2437.4	2668.1	4054.1	5219.1	5709.5	6214.0	6830.2
-5°	1239.8	1497.2	1812.4	2143.8	2423.4	2655.5	3969.8	5143.2	5675.6	6174.7	6777.5
-7.5°	1224.7	1481.0	1790.3	2118.4	2400.3	2634.5	3829.9	5017.5	5619.4	6109.6	6690.4
-10°	1203.8	1458.4	1759.4	2083.1	2368.1	2605.4	3635.3	4842.8	5541.4	6019.3	6569.7
-12.5°	1177.0	1429.5	1720.0	2037.9	2327.0	2568.2	3387.2	4620.3	5442.2	5904.6	6416.9
-15°	1144.4	1394.3	1672.1	1983.1	2277.2	2523.1	3087.2	4351.7	5322.6	5766.7	6233.3
-17.5°	1106.1	1353.1	1615.9	1918.8	2218.8	2470.5	2737.1	4029.3	5095.9	5613.3	6058.8
-20°	1062.3	1306.0	1551.7	1845.5	2149.9	2404.1	2617.8	3597.9	4711.4	5442.9	5863.2



REPORT NUMBER: P701429 (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°	1013.1	1253.1	1485.6	1766.2	2060.5	2323.2	2545.3	3117.6	4284.0	5254.1	5651.3
-25°	959.1	1193.0	1421.4	1679.3	1961.9	2234.3	2465.5	2659.0	3759.9	4765.3	5430.0
-27.5°	900.8	1127.3	1351.3	1584.7	1854.5	2132.3	2366.1	2565.9	3147.1	4223.5	5116.9
-30°	837.6	1056.3	1275.6	1487.9	1742.7	2007.3	2254.0	2466.1	2642.8	3552.6	4499.8
-32.5°	769.7	980.2	1193.0	1399.7	1624.4	1874.0	2128.8	2343.1	2529.4	2811.2	3799.3
-35°	703.5	900.8	1104.4	1306.0	1501.1	1737.0	1977.3	2208.2	2403.4	2567.9	2972.5
-37.5°	643.0	816.7	1010.8	1205.9	1394.3	1594.8	1818.7	2047.2	2252.8	2433.8	2580.8
-40°	579.2	728.3	914.0	1099.4	1282.5	1458.4	1659.6	1870.0	2082.4	2267.8	2433.8
-42.5°	512.3	654.7	813.2	988.1	1163.5	1333.3	1497.2	1692.2	1887.3	2082.4	2252.8
-45°	440.8	578.4	712.0	874.7	1039.1	1202.3	1358.9	1510.2	1692.2	1870.0	2047.2
-47.5°	366.5	498.7	626.1	757.2	911.9	1064.7	1215.3	1358.9	1497.2	1659.6	1818.7
-50°	293.8	414.7	537.2	654.9	781.9	924.3	1064.7	1202.3	1333.3	1458.4	1594.8
-52.5°	230.9	328.0	443.8	556.3	664.6	781.9	911.9	1039.1	1163.5	1282.5	1394.3
-55°	166.3	253.7	347.4	453.5	556.3	654.9	757.2	874.7	988.1	1099.4	1205.9
-57.5°	121.0	181.4	261.3	347.4	443.8	537.2	626.1	712.0	813.2	914.0	1010.8
-60°	86.6	124.8	181.4	253.7	328.0	414.7	498.7	578.4	654.7	728.3	816.7
-62.5°	56.1	86.6	121.0	166.3	230.9	293.8	366.5	440.8	512.3	579.2	643.0
-65°	45.7	55.0	79.1	109.6	139.3	193.3	248.6	301.9	364.7	426.7	485.8
-67.5°	35.1	43.5	51.8	64.1	90.8	116.7	141.8	189.2	235.1	279.1	324.1
-70°	28.9	32.6	39.2	46.3	53.3	64.8	87.0	108.5	129.1	155.0	192.1
-72.5°	23.5	26.7	29.9	33.1	38.8	44.7	50.3	55.8	68.4	85.6	102.0
-75°	18.9	20.9	23.5	26.2	28.8	31.3	34.1	38.8	43.2	47.5	51.6
-77.5°	14.9	16.6	18.2	19.8	21.5	23.5	25.6	27.5	29.4	31.2	32.8
-80°	11.4	12.3	13.5	14.8	16.1	17.3	18.4	19.5	20.6	21.8	23.2
-82.5°	9.0	9.6	10.2	10.8	11.4	11.9	12.5	13.3	14.1	14.9	15.6
-85°	6.5	7.0	7.4	7.8	8.1	8.5	8.9	9.2	9.5	9.8	10.1
-87.5°	3.2	3.5	3.8	4.0	4.3	4.5	4.7	4.9	5.2	5.4	5.6
-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):

	-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°	5.7	5.9	6.1	6.2	6.3	6.5	6.6	6.7	6.8	6.8	6.9
85°	10.4	10.6	10.9	11.1	11.3	11.5	11.7	11.8	11.9	12.0	12.1
82.5°	16.3	16.9	17.5	18.1	18.6	19.1	19.5	19.9	20.2	20.5	20.7
80°	24.4	25.6	26.8	27.8	28.7	29.6	30.4	31.1	31.7	32.2	32.6
77.5°	35.5	38.5	41.3	43.9	46.3	48.5	50.5	52.2	53.7	55.0	56.1
75°	55.4	61.7	73.3	84.1	94.0	103.1	111.2	118.5	124.8	130.1	134.5
72.5°	117.4	132.0	148.7	173.8	196.8	217.9	236.8	253.7	268.3	280.8	291.1
70°	227.2	260.3	291.3	322.9	356.5	387.1	414.7	439.2	460.6	478.7	493.7
67.5°	374.3	421.6	465.9	507.2	544.5	578.4	608.9	636.1	659.8	679.9	696.5
65°	541.3	592.9	641.3	686.3	728.3	776.3	819.7	858.2	891.9	920.6	944.1
62.5°	703.5	769.7	837.6	900.8	959.1	1013.1	1062.3	1106.1	1144.4	1177.0	1203.8
60°	900.8	980.2	1056.3	1127.3	1193.0	1253.1	1306.0	1353.1	1394.3	1429.5	1458.4
57.5°	1104.4	1193.0	1275.6	1351.3	1421.4	1485.6	1551.7	1615.9	1672.1	1720.0	1759.4
55°	1306.0	1399.7	1487.9	1584.7	1679.3	1766.2	1845.5	1918.8	1983.1	2037.9	2083.1
52.5°	1501.1	1624.4	1742.7	1854.5	1961.9	2060.5	2149.9	2218.8	2277.2	2327.0	2368.1
50°	1737.0	1874.0	2007.3	2132.3	2234.3	2323.2	2404.1	2470.5	2523.1	2568.2	2605.4
47.5°	1977.3	2128.8	2254.0	2366.1	2465.5	2545.3	2617.8	2737.1	3087.2	3387.2	3635.3
45°	2208.2	2343.1	2466.1	2565.9	2659.0	3117.6	3597.9	4029.3	4351.7	4620.3	4842.8
42.5°	2403.4	2529.4	2642.8	3147.1	3759.9	4284.0	4711.4	5095.9	5322.6	5442.2	5541.4
40°	2567.9	2811.2	3552.6	4223.5	4765.3	5254.1	5442.9	5613.3	5766.7	5904.6	6019.3
37.5°	2972.5	3799.3	4499.8	5116.9	5430.0	5651.3	5863.2	6058.8	6233.3	6416.9	6569.7
35°	3882.1	4639.5	5280.0	5549.6	5809.2	6061.6	6309.5	6568.3	6798.5	7047.3	7268.4
32.5°	4639.5	5309.5	5610.2	5908.3	6197.1	6521.8	6828.6	7193.5	7524.9	7923.1	8353.2
30°	5280.0	5610.2	5941.7	6274.4	6651.7	7058.9	7497.1	8074.6	8715.3	9349.0	10083.5
27.5°	5549.6	5908.3	6274.4	6695.5	7179.1	7692.2	8531.7	9394.3	10480.9	11434.0	13725.7
25°	5809.2	6197.1	6651.7	7179.1	7804.3	8764.7	9961.0	11263.5	14311.6	17287.5	22258.7
22.5°	6061.6	6521.8	7058.9	7692.2	8764.7	10152.6	12083.0	16101.2	22149.6	29785.8	38134.2
20°	6309.5	6828.6	7497.1	8531.7	9961.0	12083.0	16708.2	25139.6	35187.9	48691.5	61157.0
17.5°	6568.3	7193.5	8074.6	9394.3	11263.5	16101.2	25139.6	37769.0	54164.9	72868.0	90406.2
15°	6798.5	7524.9	8715.3	10480.9	14311.6	22149.6	35187.9	54164.9	76884.9	100071.2	122441.2
12.5°	7047.3	7923.1	9349.0	11434.0	17287.5	29785.8	48691.5	72868.0	100071.2	127874.5	151946.6
10°	7268.4	8353.2	10083.5	13725.7	22258.7	38134.2	61157.0	90406.2	122441.2	151946.6	180663.6
7.5°	7443.4	8694.4	10668.2	15563.6	27016.5	46646.3	74009.7	106772.4	140681.5	173382.1	210100.1
5°	7570.0	8941.8	11093.3	16904.8	30503.9	52921.7	83558.5	119169.7	154343.7	192463.3	234462.4
2.5°	7646.6	9091.8	11351.6	17721.5	32634.3	56771.7	89450.7	126882.4	162945.7	205267.9	252343.7
0°	7672.3	9142.1	11438.2	17995.8	33351.0	58069.8	91443.7	129502.9	165888.4	209684.3	258779.0
-2.5°	7646.6	9091.8	11351.6	17721.5	32634.3	56771.7	89450.7	126882.4	162945.7	205267.9	252343.7
-5°	7570.0	8941.8	11093.3	16904.8	30503.9	52921.7	83558.5	119169.7	154343.7	192463.3	234462.4
-7.5°	7443.4	8694.4	10668.2	15563.6	27016.5	46646.3	74009.7	106772.4	140681.5	173382.1	210100.1
-10°	7268.4	8353.2	10083.5	13725.7	22258.7	38134.2	61157.0	90406.2	122441.2	151946.6	180663.6
-12.5°	7047.3	7923.1	9349.0	11434.0	17287.5	29785.8	48691.5	72868.0	100071.2	127874.5	151946.6
-15°	6798.5	7524.9	8715.3	10480.9	14311.6	22149.6	35187.9	54164.9	76884.9	100071.2	122441.2
-17.5°	6568.3	7193.5	8074.6	9394.3	11263.5	16101.2	25139.6	37769.0	54164.9	72868.0	90406.2
-20°	6309.5	6828.6	7497.1	8531.7	9961.0	12083.0	16708.2	25139.6	35187.9	48691.5	61157.0



REPORT NUMBER: P701429 (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°	6061.6	6521.8	7058.9	7692.2	8764.7	10152.6	12083.0	16101.2	22149.6	29785.8	38134.2
-25°	5809.2	6197.1	6651.7	7179.1	7804.3	8764.7	9961.0	11263.5	14311.6	17287.5	22258.7
-27.5°	5549.6	5908.3	6274.4	6695.5	7179.1	7692.2	8531.7	9394.3	10480.9	11434.0	13725.7
-30°	5280.0	5610.2	5941.7	6274.4	6651.7	7058.9	7497.1	8074.6	8715.3	9349.0	10083.5
-32.5°	4639.5	5309.5	5610.2	5908.3	6197.1	6521.8	6828.6	7193.5	7524.9	7923.1	8353.2
-35°	3882.1	4639.5	5280.0	5549.6	5809.2	6061.6	6309.5	6568.3	6798.5	7047.3	7268.4
-37.5°	2972.5	3799.3	4499.8	5116.9	5430.0	5651.3	5863.2	6058.8	6233.3	6416.9	6569.7
-40°	2567.9	2811.2	3552.6	4223.5	4765.3	5254.1	5442.9	5613.3	5766.7	5904.6	6019.3
-42.5°	2403.4	2529.4	2642.8	3147.1	3759.9	4284.0	4711.4	5095.9	5322.6	5442.2	5541.4
-45°	2208.2	2343.1	2466.1	2565.9	2659.0	3117.6	3597.9	4029.3	4351.7	4620.3	4842.8
-47.5°	1977.3	2128.8	2254.0	2366.1	2465.5	2545.3	2617.8	2737.1	3087.2	3387.2	3635.3
-50°	1737.0	1874.0	2007.3	2132.3	2234.3	2323.2	2404.1	2470.5	2523.1	2568.2	2605.4
-52.5°	1501.1	1624.4	1742.7	1854.5	1961.9	2060.5	2149.9	2218.8	2277.2	2327.0	2368.1
-55°	1306.0	1399.7	1487.9	1584.7	1679.3	1766.2	1845.5	1918.8	1983.1	2037.9	2083.1
-57.5°	1104.4	1193.0	1275.6	1351.3	1421.4	1485.6	1551.7	1615.9	1672.1	1720.0	1759.4
-60°	900.8	980.2	1056.3	1127.3	1193.0	1253.1	1306.0	1353.1	1394.3	1429.5	1458.4
-62.5°	703.5	769.7	837.6	900.8	959.1	1013.1	1062.3	1106.1	1144.4	1177.0	1203.8
-65°	541.3	592.9	641.3	686.3	728.3	776.3	819.7	858.2	891.9	920.6	944.1
-67.5°	374.3	421.6	465.9	507.2	544.5	578.4	608.9	636.1	659.8	679.9	696.5
-70°	227.2	260.3	291.3	322.9	356.5	387.1	414.7	439.2	460.6	478.7	493.7
-72.5°	117.4	132.0	148.7	173.8	196.8	217.9	236.8	253.7	268.3	280.8	291.1
-75°	55.4	61.7	73.3	84.1	94.0	103.1	111.2	118.5	124.8	130.1	134.5
-77.5°	35.5	38.5	41.3	43.9	46.3	48.5	50.5	52.2	53.7	55.0	56.1
-80°	24.4	25.6	26.8	27.8	28.7	29.6	30.4	31.1	31.7	32.2	32.6
-82.5°	16.3	16.9	17.5	18.1	18.6	19.1	19.5	19.9	20.2	20.5	20.7
-85°	10.4	10.6	10.9	11.1	11.3	11.5	11.7	11.8	11.9	12.0	12.1
-87.5°	5.7	5.9	6.1	6.2	6.3	6.5	6.6	6.7	6.8	6.8	6.9
-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: P701429 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-3S-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°	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.8	6.8	6.7
85°	12.2	12.3	12.3	12.3	12.3	12.3	12.2	12.1	12.0	11.9	11.8
82.5°	20.9	21.0	21.1	21.1	21.1	21.0	20.9	20.7	20.5	20.2	19.9
80°	33.0	33.2	33.4	33.4	33.4	33.2	33.0	32.6	32.2	31.7	31.1
77.5°	56.9	57.5	57.9	58.0	57.9	57.5	56.9	56.1	55.0	53.7	52.2
75°	138.0	140.4	141.9	142.4	141.9	140.4	138.0	134.5	130.1	124.8	118.5
72.5°	299.1	304.8	308.3	309.4	308.3	304.8	299.1	291.1	280.8	268.3	253.7
70°	505.4	513.7	518.7	520.4	518.7	513.7	505.4	493.7	478.7	460.6	439.2
67.5°	709.4	718.7	724.2	726.1	724.2	718.7	709.4	696.5	679.9	659.8	636.1
65°	962.5	975.7	983.7	986.3	983.7	975.7	962.5	944.1	920.6	891.9	858.2
62.5°	1224.7	1239.8	1248.8	1251.8	1248.8	1239.8	1224.7	1203.8	1177.0	1144.4	1106.1
60°	1481.0	1497.2	1506.9	1510.2	1506.9	1497.2	1481.0	1458.4	1429.5	1394.3	1353.1
57.5°	1790.3	1812.4	1825.8	1830.2	1825.8	1812.4	1790.3	1759.4	1720.0	1672.1	1615.9
55°	2118.4	2143.8	2159.1	2164.2	2159.1	2143.8	2118.4	2083.1	2037.9	1983.1	1918.8
52.5°	2400.3	2423.4	2437.4	2442.0	2437.4	2423.4	2400.3	2368.1	2327.0	2277.2	2218.8
50°	2634.5	2655.5	2668.1	2672.3	2668.1	2655.5	2634.5	2605.4	2568.2	2523.1	2470.5
47.5°	3829.9	3969.8	4054.1	4082.3	4054.1	3969.8	3829.9	3635.3	3387.2	3087.2	2737.1
45°	5017.5	5143.2	5219.1	5244.4	5219.1	5143.2	5017.5	4842.8	4620.3	4351.7	4029.3
42.5°	5619.4	5675.6	5709.5	5720.8	5709.5	5675.6	5619.4	5541.4	5442.2	5322.6	5095.9
40°	6109.6	6174.7	6214.0	6227.2	6214.0	6174.7	6109.6	6019.3	5904.6	5766.7	5613.3
37.5°	6690.4	6777.5	6830.2	6847.8	6830.2	6777.5	6690.4	6569.7	6416.9	6233.3	6058.8
35°	7443.4	7570.0	7646.6	7672.3	7646.6	7570.0	7443.4	7268.4	7047.3	6798.5	6568.3
32.5°	8694.4	8941.8	9091.8	9142.1	9091.8	8941.8	8694.4	8353.2	7923.1	7524.9	7193.5
30°	10668.2	11093.3	11351.6	11438.2	11351.6	11093.3	10668.2	10083.5	9349.0	8715.3	8074.6
27.5°	15563.6	16904.8	17721.5	17995.8	17721.5	16904.8	15563.6	13725.7	11434.0	10480.9	9394.3
25°	27016.5	30503.9	32634.3	33351.0	32634.3	30503.9	27016.5	22258.7	17287.5	14311.6	11263.5
22.5°	46646.3	52921.7	56771.7	58069.8	56771.7	52921.7	46646.3	38134.2	29785.8	22149.6	16101.2
20°	74009.7	83558.5	89450.7	91443.7	89450.7	83558.5	74009.7	61157.0	48691.5	35187.9	25139.6
17.5°	106772.4	119169.7	126882.4	129502.9	126882.4	119169.7	106772.4	90406.2	72868.0	54164.9	37769.0
15°	140681.5	154343.7	162945.7	165888.4	162945.7	154343.7	140681.5	122441.2	100071.2	76884.9	54164.9
12.5°	173382.1	192463.3	205267.9	209684.3	205267.9	192463.3	173382.1	151946.6	127874.5	100071.2	72868.0
10°	210100.1	234462.4	252343.7	258779.0	252343.7	234462.4	210100.1	180663.6	151946.6	122441.2	90406.2
7.5°	246287.4	279175.8	297368.0	302769.2	297368.0	279175.8	246287.4	210100.1	173382.1	140681.5	106772.4
5°	279175.8	308571.8	325398.2	331219.5	325398.2	308571.8	279175.8	234462.4	192463.3	154343.7	119169.7
2.5°	297368.0	325398.2	348754.9	364604.0	348754.9	325398.2	297368.0	252343.7	205267.9	162945.7	126882.4
0°	302769.2	331219.5	364604.0	386843.8	364604.0	331219.5	302769.2	258779.0	209684.3	165888.4	129502.9
-2.5°	297368.0	325398.2	348754.9	364604.0	348754.9	325398.2	297368.0	252343.7	205267.9	162945.7	126882.4
-5°	279175.8	308571.8	325398.2	331219.5	325398.2	308571.8	279175.8	234462.4	192463.3	154343.7	119169.7
-7.5°	246287.4	279175.8	297368.0	302769.2	297368.0	279175.8	246287.4	210100.1	173382.1	140681.5	106772.4
-10°	210100.1	234462.4	252343.7	258779.0	252343.7	234462.4	210100.1	180663.6	151946.6	122441.2	90406.2
-12.5°	173382.1	192463.3	205267.9	209684.3	205267.9	192463.3	173382.1	151946.6	127874.5	100071.2	72868.0
-15°	140681.5	154343.7	162945.7	165888.4	162945.7	154343.7	140681.5	122441.2	100071.2	76884.9	54164.9
-17.5°	106772.4	119169.7	126882.4	129502.9	126882.4	119169.7	106772.4	90406.2	72868.0	54164.9	37769.0
-20°	74009.7	83558.5	89450.7	91443.7	89450.7	83558.5	74009.7	61157.0	48691.5	35187.9	25139.6



REPORT NUMBER: P701429 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	46646.3	52921.7	56771.7	58069.8	56771.7	52921.7	46646.3	38134.2	29785.8	22149.6	16101.2
-25°	27016.5	30503.9	32634.3	33351.0	32634.3	30503.9	27016.5	22258.7	17287.5	14311.6	11263.5
-27.5°	15563.6	16904.8	17721.5	17995.8	17721.5	16904.8	15563.6	13725.7	11434.0	10480.9	9394.3
-30°	10668.2	11093.3	11351.6	11438.2	11351.6	11093.3	10668.2	10083.5	9349.0	8715.3	8074.6
-32.5°	8694.4	8941.8	9091.8	9142.1	9091.8	8941.8	8694.4	8353.2	7923.1	7524.9	7193.5
-35°	7443.4	7570.0	7646.6	7672.3	7646.6	7570.0	7443.4	7268.4	7047.3	6798.5	6568.3
-37.5°	6690.4	6777.5	6830.2	6847.8	6830.2	6777.5	6690.4	6569.7	6416.9	6233.3	6058.8
-40°	6109.6	6174.7	6214.0	6227.2	6214.0	6174.7	6109.6	6019.3	5904.6	5766.7	5613.3
-42.5°	5619.4	5675.6	5709.5	5720.8	5709.5	5675.6	5619.4	5541.4	5442.2	5322.6	5095.9
-45°	5017.5	5143.2	5219.1	5244.4	5219.1	5143.2	5017.5	4842.8	4620.3	4351.7	4029.3
-47.5°	3829.9	3969.8	4054.1	4082.3	4054.1	3969.8	3829.9	3635.3	3387.2	3087.2	2737.1
-50°	2634.5	2655.5	2668.1	2672.3	2668.1	2655.5	2634.5	2605.4	2568.2	2523.1	2470.5
-52.5°	2400.3	2423.4	2437.4	2442.0	2437.4	2423.4	2400.3	2368.1	2327.0	2277.2	2218.8
-55°	2118.4	2143.8	2159.1	2164.2	2159.1	2143.8	2118.4	2083.1	2037.9	1983.1	1918.8
-57.5°	1790.3	1812.4	1825.8	1830.2	1825.8	1812.4	1790.3	1759.4	1720.0	1672.1	1615.9
-60°	1481.0	1497.2	1506.9	1510.2	1506.9	1497.2	1481.0	1458.4	1429.5	1394.3	1353.1
-62.5°	1224.7	1239.8	1248.8	1251.8	1248.8	1239.8	1224.7	1203.8	1177.0	1144.4	1106.1
-65°	962.5	975.7	983.7	986.3	983.7	975.7	962.5	944.1	920.6	891.9	858.2
-67.5°	709.4	718.7	724.2	726.1	724.2	718.7	709.4	696.5	679.9	659.8	636.1
-70°	505.4	513.7	518.7	520.4	518.7	513.7	505.4	493.7	478.7	460.6	439.2
-72.5°	299.1	304.8	308.3	309.4	308.3	304.8	299.1	291.1	280.8	268.3	253.7
-75°	138.0	140.4	141.9	142.4	141.9	140.4	138.0	134.5	130.1	124.8	118.5
-77.5°	56.9	57.5	57.9	58.0	57.9	57.5	56.9	56.1	55.0	53.7	52.2
-80°	33.0	33.2	33.4	33.4	33.4	33.2	33.0	32.6	32.2	31.7	31.1
-82.5°	20.9	21.0	21.1	21.1	21.1	21.0	20.9	20.7	20.5	20.2	19.9
-85°	12.2	12.3	12.3	12.3	12.3	12.3	12.2	12.1	12.0	11.9	11.8
-87.5°	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.8	6.8	6.7
-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°	6.6	6.5	6.3	6.2	6.1	5.9	5.7	5.6	5.4	5.2	4.9
85°	11.7	11.5	11.3	11.1	10.9	10.6	10.4	10.1	9.8	9.5	9.2
82.5°	19.5	19.1	18.6	18.1	17.5	16.9	16.3	15.6	14.9	14.1	13.3
80°	30.4	29.6	28.7	27.8	26.8	25.6	24.4	23.2	21.8	20.6	19.5
77.5°	50.5	48.5	46.3	43.9	41.3	38.5	35.5	32.8	31.2	29.4	27.5
75°	111.2	103.1	94.0	84.1	73.3	61.7	55.4	51.6	47.5	43.2	38.8
72.5°	236.8	217.9	196.8	173.8	148.7	132.0	117.4	102.0	85.6	68.4	55.8
70°	414.7	387.1	356.5	322.9	291.3	260.3	227.2	192.1	155.0	129.1	108.5
67.5°	608.9	578.4	544.5	507.2	465.9	421.6	374.3	324.1	279.1	235.1	189.2
65°	819.7	776.3	728.3	686.3	641.3	592.9	541.3	485.8	426.7	364.7	301.9
62.5°	1062.3	1013.1	959.1	900.8	837.6	769.7	703.5	643.0	579.2	512.3	440.8
60°	1306.0	1253.1	1193.0	1127.3	1056.3	980.2	900.8	816.7	728.3	654.7	578.4
57.5°	1551.7	1485.6	1421.4	1351.3	1275.6	1193.0	1104.4	1010.8	914.0	813.2	712.0
55°	1845.5	1766.2	1679.3	1584.7	1487.9	1399.7	1306.0	1205.9	1099.4	988.1	874.7
52.5°	2149.9	2060.5	1961.9	1854.5	1742.7	1624.4	1501.1	1394.3	1282.5	1163.5	1039.1
50°	2404.1	2323.2	2234.3	2132.3	2007.3	1874.0	1737.0	1594.8	1458.4	1333.3	1202.3
47.5°	2617.8	2545.3	2465.5	2366.1	2254.0	2128.8	1977.3	1818.7	1659.6	1497.2	1358.9
45°	3597.9	3117.6	2659.0	2565.9	2466.1	2343.1	2208.2	2047.2	1870.0	1692.2	1510.2
42.5°	4711.4	4284.0	3759.9	3147.1	2642.8	2529.4	2403.4	2252.8	2082.4	1887.3	1692.2
40°	5442.9	5254.1	4765.3	4223.5	3552.6	2811.2	2567.9	2433.8	2267.8	2082.4	1870.0
37.5°	5863.2	5651.3	5430.0	5116.9	4499.8	3799.3	2972.5	2580.8	2433.8	2252.8	2047.2
35°	6309.5	6061.6	5809.2	5549.6	5280.0	4639.5	3882.1	2972.5	2567.9	2403.4	2208.2
32.5°	6828.6	6521.8	6197.1	5908.3	5610.2	5309.5	4639.5	3799.3	2811.2	2529.4	2343.1
30°	7497.1	7058.9	6651.7	6274.4	5941.7	5610.2	5280.0	4499.8	3552.6	2642.8	2466.1
27.5°	8531.7	7692.2	7179.1	6695.5	6274.4	5908.3	5549.6	5116.9	4223.5	3147.1	2565.9
25°	9961.0	8764.7	7804.3	7179.1	6651.7	6197.1	5809.2	5430.0	4765.3	3759.9	2659.0
22.5°	12083.0	10152.6	8764.7	7692.2	7058.9	6521.8	6061.6	5651.3	5254.1	4284.0	3117.6
20°	16708.2	12083.0	9961.0	8531.7	7497.1	6828.6	6309.5	5863.2	5442.9	4711.4	3597.9
17.5°	25139.6	16101.2	11263.5	9394.3	8074.6	7193.5	6568.3	6058.8	5613.3	5095.9	4029.3
15°	35187.9	22149.6	14311.6	10480.9	8715.3	7524.9	6798.5	6233.3	5766.7	5322.6	4351.7
12.5°	48691.5	29785.8	17287.5	11434.0	9349.0	7923.1	7047.3	6416.9	5904.6	5442.2	4620.3
10°	61157.0	38134.2	22258.7	13725.7	10083.5	8353.2	7268.4	6569.7	6019.3	5541.4	4842.8
7.5°	74009.7	46646.3	27016.5	15563.6	10668.2	8694.4	7443.4	6690.4	6109.6	5619.4	5017.5
5°	83558.5	52921.7	30503.9	16904.8	11093.3	8941.8	7570.0	6777.5	6174.7	5675.6	5143.2
2.5°	89450.7	56771.7	32634.3	17721.5	11351.6	9091.8	7646.6	6830.2	6214.0	5709.5	5219.1
0°	91443.7	58069.8	33351.0	17995.8	11438.2	9142.1	7672.3	6847.8	6227.2	5720.8	5244.4
-2.5°	89450.7	56771.7	32634.3	17721.5	11351.6	9091.8	7646.6	6830.2	6214.0	5709.5	5219.1
-5°	83558.5	52921.7	30503.9	16904.8	11093.3	8941.8	7570.0	6777.5	6174.7	5675.6	5143.2
-7.5°	74009.7	46646.3	27016.5	15563.6	10668.2	8694.4	7443.4	6690.4	6109.6	5619.4	5017.5
-10°	61157.0	38134.2	22258.7	13725.7	10083.5	8353.2	7268.4	6569.7	6019.3	5541.4	4842.8
-12.5°	48691.5	29785.8	17287.5	11434.0	9349.0	7923.1	7047.3	6416.9	5904.6	5442.2	4620.3
-15°	35187.9	22149.6	14311.6	10480.9	8715.3	7524.9	6798.5	6233.3	5766.7	5322.6	4351.7
-17.5°	25139.6	16101.2	11263.5	9394.3	8074.6	7193.5	6568.3	6058.8	5613.3	5095.9	4029.3
-20°	16708.2	12083.0	9961.0	8531.7	7497.1	6828.6	6309.5	5863.2	5442.9	4711.4	3597.9



REPORT NUMBER: P701429 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	12083.0	10152.6	8764.7	7692.2	7058.9	6521.8	6061.6	5651.3	5254.1	4284.0	3117.6
-25°	9961.0	8764.7	7804.3	7179.1	6651.7	6197.1	5809.2	5430.0	4765.3	3759.9	2659.0
-27.5°	8531.7	7692.2	7179.1	6695.5	6274.4	5908.3	5549.6	5116.9	4223.5	3147.1	2565.9
-30°	7497.1	7058.9	6651.7	6274.4	5941.7	5610.2	5280.0	4499.8	3552.6	2642.8	2466.1
-32.5°	6828.6	6521.8	6197.1	5908.3	5610.2	5309.5	4639.5	3799.3	2811.2	2529.4	2343.1
-35°	6309.5	6061.6	5809.2	5549.6	5280.0	4639.5	3882.1	2972.5	2567.9	2403.4	2208.2
-37.5°	5863.2	5651.3	5430.0	5116.9	4499.8	3799.3	2972.5	2580.8	2433.8	2252.8	2047.2
-40°	5442.9	5254.1	4765.3	4223.5	3552.6	2811.2	2567.9	2433.8	2267.8	2082.4	1870.0
-42.5°	4711.4	4284.0	3759.9	3147.1	2642.8	2529.4	2403.4	2252.8	2082.4	1887.3	1692.2
-45°	3597.9	3117.6	2659.0	2565.9	2466.1	2343.1	2208.2	2047.2	1870.0	1692.2	1510.2
-47.5°	2617.8	2545.3	2465.5	2366.1	2254.0	2128.8	1977.3	1818.7	1659.6	1497.2	1358.9
-50°	2404.1	2323.2	2234.3	2132.3	2007.3	1874.0	1737.0	1594.8	1458.4	1333.3	1202.3
-52.5°	2149.9	2060.5	1961.9	1854.5	1742.7	1624.4	1501.1	1394.3	1282.5	1163.5	1039.1
-55°	1845.5	1766.2	1679.3	1584.7	1487.9	1399.7	1306.0	1205.9	1099.4	988.1	874.7
-57.5°	1551.7	1485.6	1421.4	1351.3	1275.6	1193.0	1104.4	1010.8	914.0	813.2	712.0
-60°	1306.0	1253.1	1193.0	1127.3	1056.3	980.2	900.8	816.7	728.3	654.7	578.4
-62.5°	1062.3	1013.1	959.1	900.8	837.6	769.7	703.5	643.0	579.2	512.3	440.8
-65°	819.7	776.3	728.3	686.3	641.3	592.9	541.3	485.8	426.7	364.7	301.9
-67.5°	608.9	578.4	544.5	507.2	465.9	421.6	374.3	324.1	279.1	235.1	189.2
-70°	414.7	387.1	356.5	322.9	291.3	260.3	227.2	192.1	155.0	129.1	108.5
-72.5°	236.8	217.9	196.8	173.8	148.7	132.0	117.4	102.0	85.6	68.4	55.8
-75°	111.2	103.1	94.0	84.1	73.3	61.7	55.4	51.6	47.5	43.2	38.8
-77.5°	50.5	48.5	46.3	43.9	41.3	38.5	35.5	32.8	31.2	29.4	27.5
-80°	30.4	29.6	28.7	27.8	26.8	25.6	24.4	23.2	21.8	20.6	19.5
-82.5°	19.5	19.1	18.6	18.1	17.5	16.9	16.3	15.6	14.9	14.1	13.3
-85°	11.7	11.5	11.3	11.1	10.9	10.6	10.4	10.1	9.8	9.5	9.2
-87.5°	6.6	6.5	6.3	6.2	6.1	5.9	5.7	5.6	5.4	5.2	4.9
-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: P701429 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-3S-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°	4.7	4.5	4.3	4.0	3.8	3.5	3.2	3.0	2.7	2.4	2.1
85°	8.9	8.5	8.1	7.8	7.4	7.0	6.5	5.9	5.4	4.8	4.2
82.5°	12.5	11.9	11.4	10.8	10.2	9.6	9.0	8.4	7.8	7.1	6.3
80°	18.4	17.3	16.1	14.8	13.5	12.3	11.4	10.6	9.8	8.9	8.0
77.5°	25.6	23.5	21.5	19.8	18.2	16.6	14.9	13.2	11.8	10.7	9.6
75°	34.1	31.3	28.8	26.2	23.5	20.9	18.9	16.8	14.7	12.6	11.2
72.5°	50.3	44.7	38.8	33.1	29.9	26.7	23.5	20.4	18.0	15.5	13.0
70°	87.0	64.8	53.3	46.3	39.2	32.6	28.9	25.1	21.2	18.3	15.5
67.5°	141.8	116.7	90.8	64.1	51.8	43.5	35.1	30.0	25.6	21.2	18.0
65°	248.6	193.3	139.3	109.6	79.1	55.0	45.7	36.2	30.0	25.1	20.4
62.5°	366.5	293.8	230.9	166.3	121.0	86.6	56.1	45.7	35.1	28.9	23.5
60°	498.7	414.7	328.0	253.7	181.4	124.8	86.6	55.0	43.5	32.6	26.7
57.5°	626.1	537.2	443.8	347.4	261.3	181.4	121.0	79.1	51.8	39.2	29.9
55°	757.2	654.9	556.3	453.5	347.4	253.7	166.3	109.6	64.1	46.3	33.1
52.5°	911.9	781.9	664.6	556.3	443.8	328.0	230.9	139.3	90.8	53.3	38.8
50°	1064.7	924.3	781.9	654.9	537.2	414.7	293.8	193.3	116.7	64.8	44.7
47.5°	1215.3	1064.7	911.9	757.2	626.1	498.7	366.5	248.6	141.8	87.0	50.3
45°	1358.9	1202.3	1039.1	874.7	712.0	578.4	440.8	301.9	189.2	108.5	55.8
42.5°	1497.2	1333.3	1163.5	988.1	813.2	654.7	512.3	364.7	235.1	129.1	68.4
40°	1659.6	1458.4	1282.5	1099.4	914.0	728.3	579.2	426.7	279.1	155.0	85.6
37.5°	1818.7	1594.8	1394.3	1205.9	1010.8	816.7	643.0	485.8	324.1	192.1	102.0
35°	1977.3	1737.0	1501.1	1306.0	1104.4	900.8	703.5	541.3	374.3	227.2	117.4
32.5°	2128.8	1874.0	1624.4	1399.7	1193.0	980.2	769.7	592.9	421.6	260.3	132.0
30°	2254.0	2007.3	1742.7	1487.9	1275.6	1056.3	837.6	641.3	465.9	291.3	148.7
27.5°	2366.1	2132.3	1854.5	1584.7	1351.3	1127.3	900.8	686.3	507.2	322.9	173.8
25°	2465.5	2234.3	1961.9	1679.3	1421.4	1193.0	959.1	728.3	544.5	356.5	196.8
22.5°	2545.3	2323.2	2060.5	1766.2	1485.6	1253.1	1013.1	776.3	578.4	387.1	217.9
20°	2617.8	2404.1	2149.9	1845.5	1551.7	1306.0	1062.3	819.7	608.9	414.7	236.8
17.5°	2737.1	2470.5	2218.8	1918.8	1615.9	1353.1	1106.1	858.2	636.1	439.2	253.7
15°	3087.2	2523.1	2277.2	1983.1	1672.1	1394.3	1144.4	891.9	659.8	460.6	268.3
12.5°	3387.2	2568.2	2327.0	2037.9	1720.0	1429.5	1177.0	920.6	679.9	478.7	280.8
10°	3635.3	2605.4	2368.1	2083.1	1759.4	1458.4	1203.8	944.1	696.5	493.7	291.1
7.5°	3829.9	2634.5	2400.3	2118.4	1790.3	1481.0	1224.7	962.5	709.4	505.4	299.1
5°	3969.8	2655.5	2423.4	2143.8	1812.4	1497.2	1239.8	975.7	718.7	513.7	304.8
2.5°	4054.1	2668.1	2437.4	2159.1	1825.8	1506.9	1248.8	983.7	724.2	518.7	308.3
0°	4082.3	2672.3	2442.0	2164.2	1830.2	1510.2	1251.8	986.3	726.1	520.4	309.4
-2.5°	4054.1	2668.1	2437.4	2159.1	1825.8	1506.9	1248.8	983.7	724.2	518.7	308.3
-5°	3969.8	2655.5	2423.4	2143.8	1812.4	1497.2	1239.8	975.7	718.7	513.7	304.8
-7.5°	3829.9	2634.5	2400.3	2118.4	1790.3	1481.0	1224.7	962.5	709.4	505.4	299.1
-10°	3635.3	2605.4	2368.1	2083.1	1759.4	1458.4	1203.8	944.1	696.5	493.7	291.1
-12.5°	3387.2	2568.2	2327.0	2037.9	1720.0	1429.5	1177.0	920.6	679.9	478.7	280.8
-15°	3087.2	2523.1	2277.2	1983.1	1672.1	1394.3	1144.4	891.9	659.8	460.6	268.3
-17.5°	2737.1	2470.5	2218.8	1918.8	1615.9	1353.1	1106.1	858.2	636.1	439.2	253.7
-20°	2617.8	2404.1	2149.9	1845.5	1551.7	1306.0	1062.3	819.7	608.9	414.7	236.8



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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°	2545.3	2323.2	2060.5	1766.2	1485.6	1253.1	1013.1	776.3	578.4	387.1	217.9
-25°	2465.5	2234.3	1961.9	1679.3	1421.4	1193.0	959.1	728.3	544.5	356.5	196.8
-27.5°	2366.1	2132.3	1854.5	1584.7	1351.3	1127.3	900.8	686.3	507.2	322.9	173.8
-30°	2254.0	2007.3	1742.7	1487.9	1275.6	1056.3	837.6	641.3	465.9	291.3	148.7
-32.5°	2128.8	1874.0	1624.4	1399.7	1193.0	980.2	769.7	592.9	421.6	260.3	132.0
-35°	1977.3	1737.0	1501.1	1306.0	1104.4	900.8	703.5	541.3	374.3	227.2	117.4
-37.5°	1818.7	1594.8	1394.3	1205.9	1010.8	816.7	643.0	485.8	324.1	192.1	102.0
-40°	1659.6	1458.4	1282.5	1099.4	914.0	728.3	579.2	426.7	279.1	155.0	85.6
-42.5°	1497.2	1333.3	1163.5	988.1	813.2	654.7	512.3	364.7	235.1	129.1	68.4
-45°	1358.9	1202.3	1039.1	874.7	712.0	578.4	440.8	301.9	189.2	108.5	55.8
-47.5°	1215.3	1064.7	911.9	757.2	626.1	498.7	366.5	248.6	141.8	87.0	50.3
-50°	1064.7	924.3	781.9	654.9	537.2	414.7	293.8	193.3	116.7	64.8	44.7
-52.5°	911.9	781.9	664.6	556.3	443.8	328.0	230.9	139.3	90.8	53.3	38.8
-55°	757.2	654.9	556.3	453.5	347.4	253.7	166.3	109.6	64.1	46.3	33.1
-57.5°	626.1	537.2	443.8	347.4	261.3	181.4	121.0	79.1	51.8	39.2	29.9
-60°	498.7	414.7	328.0	253.7	181.4	124.8	86.6	55.0	43.5	32.6	26.7
-62.5°	366.5	293.8	230.9	166.3	121.0	86.6	56.1	45.7	35.1	28.9	23.5
-65°	248.6	193.3	139.3	109.6	79.1	55.0	45.7	36.2	30.0	25.1	20.4
-67.5°	141.8	116.7	90.8	64.1	51.8	43.5	35.1	30.0	25.6	21.2	18.0
-70°	87.0	64.8	53.3	46.3	39.2	32.6	28.9	25.1	21.2	18.3	15.5
-72.5°	50.3	44.7	38.8	33.1	29.9	26.7	23.5	20.4	18.0	15.5	13.0
-75°	34.1	31.3	28.8	26.2	23.5	20.9	18.9	16.8	14.7	12.6	11.2
-77.5°	25.6	23.5	21.5	19.8	18.2	16.6	14.9	13.2	11.8	10.7	9.6
-80°	18.4	17.3	16.1	14.8	13.5	12.3	11.4	10.6	9.8	8.9	8.0
-82.5°	12.5	11.9	11.4	10.8	10.2	9.6	9.0	8.4	7.8	7.1	6.3
-85°	8.9	8.5	8.1	7.8	7.4	7.0	6.5	5.9	5.4	4.8	4.2
-87.5°	4.7	4.5	4.3	4.0	3.8	3.5	3.2	3.0	2.7	2.4	2.1
-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°	1.8	1.5	1.2	0.9	0.6	0.3	0.0
85°	3.6	3.0	2.4	1.8	1.2	0.6	0.0
82.5°	5.4	4.5	3.6	2.7	1.8	0.9	0.0
80°	7.2	6.0	4.8	3.6	2.4	1.2	0.0
77.5°	8.5	7.4	6.0	4.5	3.0	1.5	0.0
75°	9.8	8.5	7.2	5.4	3.6	1.8	0.0
72.5°	11.2	9.6	8.0	6.3	4.2	2.1	0.0
70°	12.6	10.7	8.9	7.1	4.8	2.4	0.0
67.5°	14.7	11.8	9.8	7.8	5.4	2.7	0.0
65°	16.8	13.2	10.6	8.4	5.9	3.0	0.0
62.5°	18.9	14.9	11.4	9.0	6.5	3.2	0.0
60°	20.9	16.6	12.3	9.6	7.0	3.5	0.0
57.5°	23.5	18.2	13.5	10.2	7.4	3.8	0.0
55°	26.2	19.8	14.8	10.8	7.8	4.0	0.0
52.5°	28.8	21.5	16.1	11.4	8.1	4.3	0.0
50°	31.3	23.5	17.3	11.9	8.5	4.5	0.0
47.5°	34.1	25.6	18.4	12.5	8.9	4.7	0.0
45°	38.8	27.5	19.5	13.3	9.2	4.9	0.0
42.5°	43.2	29.4	20.6	14.1	9.5	5.2	0.0
40°	47.5	31.2	21.8	14.9	9.8	5.4	0.0
37.5°	51.6	32.8	23.2	15.6	10.1	5.6	0.0
35°	55.4	35.5	24.4	16.3	10.4	5.7	0.0
32.5°	61.7	38.5	25.6	16.9	10.6	5.9	0.0
30°	73.3	41.3	26.8	17.5	10.9	6.1	0.0
27.5°	84.1	43.9	27.8	18.1	11.1	6.2	0.0
25°	94.0	46.3	28.7	18.6	11.3	6.3	0.0
22.5°	103.1	48.5	29.6	19.1	11.5	6.5	0.0
20°	111.2	50.5	30.4	19.5	11.7	6.6	0.0
17.5°	118.5	52.2	31.1	19.9	11.8	6.7	0.0
15°	124.8	53.7	31.7	20.2	11.9	6.8	0.0
12.5°	130.1	55.0	32.2	20.5	12.0	6.8	0.0
10°	134.5	56.1	32.6	20.7	12.1	6.9	0.0
7.5°	138.0	56.9	33.0	20.9	12.2	6.9	0.0
5°	140.4	57.5	33.2	21.0	12.3	7.0	0.0
2.5°	141.9	57.9	33.4	21.1	12.3	7.0	0.0
0°	142.4	58.0	33.4	21.1	12.3	7.0	0.0
-2.5°	141.9	57.9	33.4	21.1	12.3	7.0	0.0
-5°	140.4	57.5	33.2	21.0	12.3	7.0	0.0
-7.5°	138.0	56.9	33.0	20.9	12.2	6.9	0.0
-10°	134.5	56.1	32.6	20.7	12.1	6.9	0.0
-12.5°	130.1	55.0	32.2	20.5	12.0	6.8	0.0
-15°	124.8	53.7	31.7	20.2	11.9	6.8	0.0
-17.5°	118.5	52.2	31.1	19.9	11.8	6.7	0.0
-20°	111.2	50.5	30.4	19.5	11.7	6.6	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	103.1	48.5	29.6	19.1	11.5	6.5	0.0
-25°	94.0	46.3	28.7	18.6	11.3	6.3	0.0
-27.5°	84.1	43.9	27.8	18.1	11.1	6.2	0.0
-30°	73.3	41.3	26.8	17.5	10.9	6.1	0.0
-32.5°	61.7	38.5	25.6	16.9	10.6	5.9	0.0
-35°	55.4	35.5	24.4	16.3	10.4	5.7	0.0
-37.5°	51.6	32.8	23.2	15.6	10.1	5.6	0.0
-40°	47.5	31.2	21.8	14.9	9.8	5.4	0.0
-42.5°	43.2	29.4	20.6	14.1	9.5	5.2	0.0
-45°	38.8	27.5	19.5	13.3	9.2	4.9	0.0
-47.5°	34.1	25.6	18.4	12.5	8.9	4.7	0.0
-50°	31.3	23.5	17.3	11.9	8.5	4.5	0.0
-52.5°	28.8	21.5	16.1	11.4	8.1	4.3	0.0
-55°	26.2	19.8	14.8	10.8	7.8	4.0	0.0
-57.5°	23.5	18.2	13.5	10.2	7.4	3.8	0.0
-60°	20.9	16.6	12.3	9.6	7.0	3.5	0.0
-62.5°	18.9	14.9	11.4	9.0	6.5	3.2	0.0
-65°	16.8	13.2	10.6	8.4	5.9	3.0	0.0
-67.5°	14.7	11.8	9.8	7.8	5.4	2.7	0.0
-70°	12.6	10.7	8.9	7.1	4.8	2.4	0.0
-72.5°	11.2	9.6	8.0	6.3	4.2	2.1	0.0
-75°	9.8	8.5	7.2	5.4	3.6	1.8	0.0
-77.5°	8.5	7.4	6.0	4.5	3.0	1.5	0.0
-80°	7.2	6.0	4.8	3.6	2.4	1.2	0.0
-82.5°	5.4	4.5	3.6	2.7	1.8	0.9	0.0
-85°	3.6	3.0	2.4	1.8	1.2	0.6	0.0
-87.5°	1.8	1.5	1.2	0.9	0.6	0.3	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

