

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: P731409 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-70-2S-VHE**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731409 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-57-70-2S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 2S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

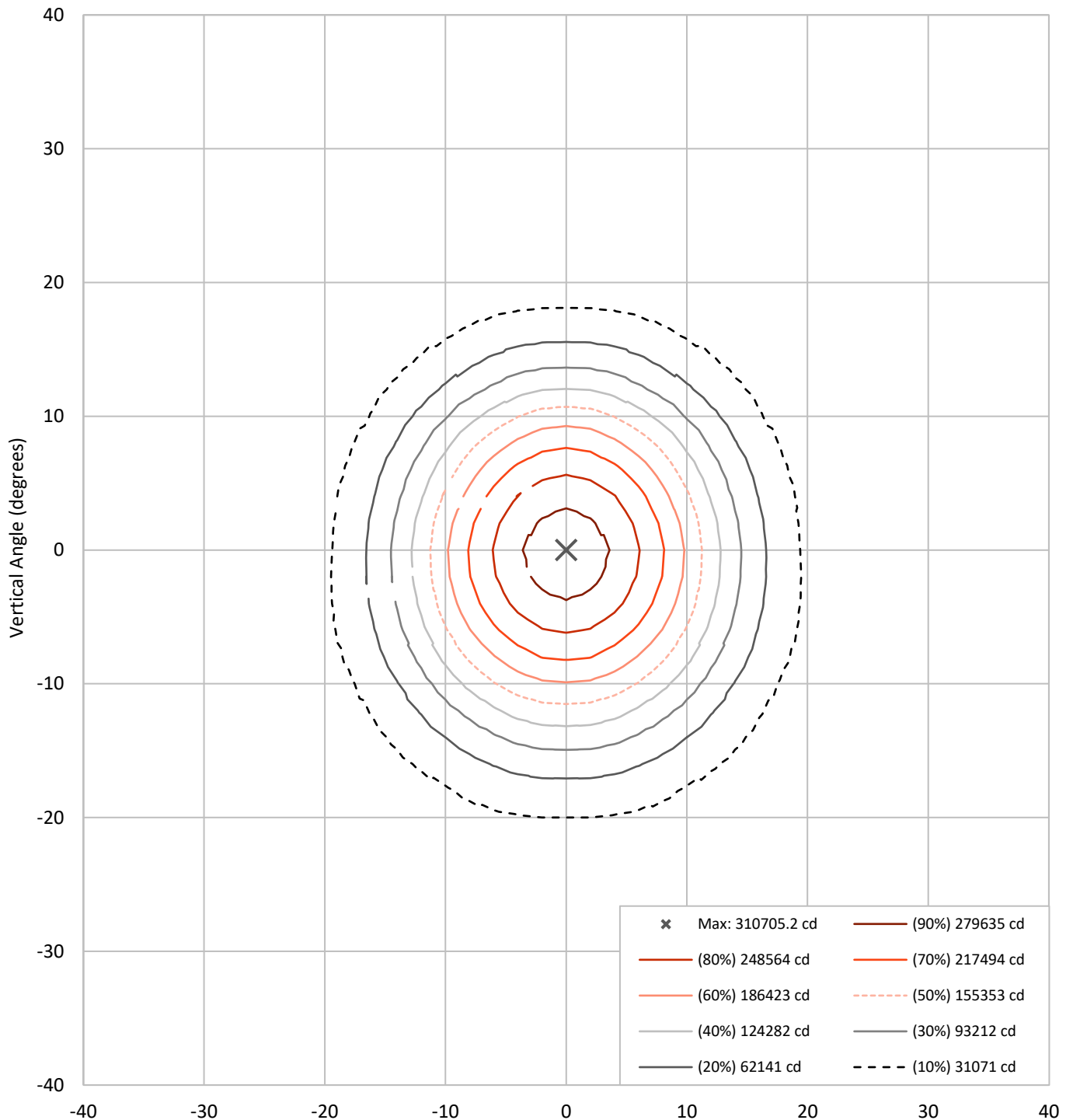
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	54306.6 lumens	Max Intensity:	310705.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	155.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	22.5°H x 22.2°V	Field Angle (10%):	38.8°H x 38.1°V
Beam Lumens:	25376.6 lumens	Field Lumens:	45207.9 lumens
Beam Efficiency:	46.7%	Field Efficiency:	83.2%

Input Watts (W): 348.5
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





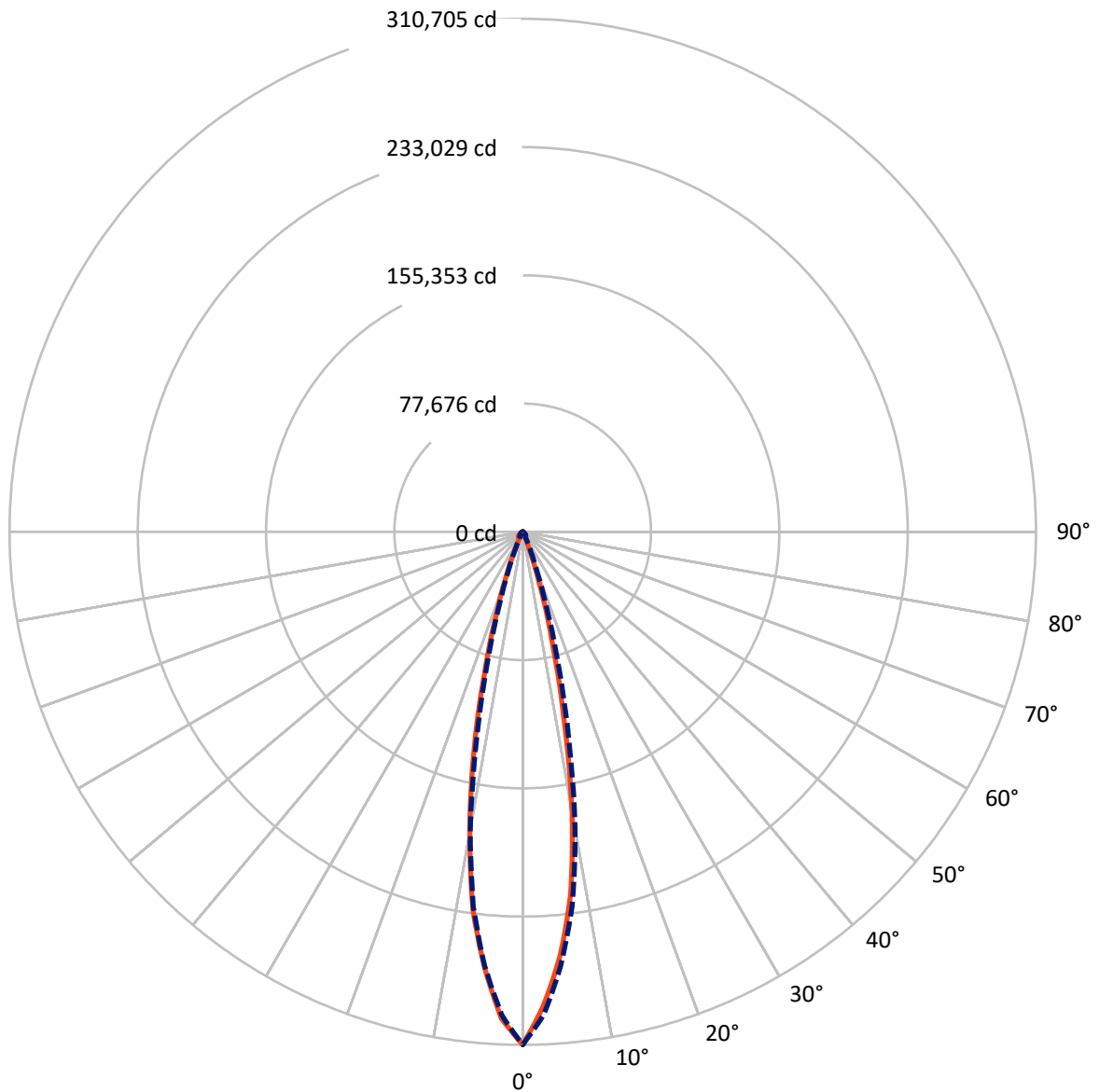
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Lumen Table

90	0.1		0.4		0.8		1.2		1.4		1.2		0.8		0.4		0.1		
80	0.1		0.4		0.8		1.2		1.4		1.2		0.8		0.4		0.1		
70	0.1	0.1	0.1	0.4	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.5	0.4	0.1	0.1	0.1			
60		0.2	0.4	0.6	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.6	0.4	0.2				
50	0.4	0.7	1.6	3.2	5.7	9.4	14.3	16.9	16.9	14.3	9.4	5.7	3.2	1.6	0.7	0.4			
40		1.7	5.3	10.3	20.2	35.2	42.8	47.4	47.4	42.8	35.2	20.2	10.3	5.3	1.7				
30	1.1	2.9	8.9	18.9	46.1	53.7	74.0	135.3	135.3	74.0	53.7	46.1	18.9	8.9	2.9	1.1			
20		3.9	11.5	33.1	65.1	95.6	606.4	1955.8	1955.8	606.4	95.6	65.1	33.1	11.5	3.9				
10	1.6	4.7	13.3	43.2	74.5	213.7	2148.2	6457.9	6457.9	2148.2	213.7	74.5	43.2	13.3	4.7	1.6			
0		5.1	14.7	45.6	82.0	245.1	2339.6	6716.0	6716.0	2339.6	245.1	82.0	45.6	14.7	5.1				
-10	1.7	5.2	15.3	44.0	86.3	140.3	857.4	2511.8	2511.8	857.4	140.3	86.3	44.0	15.3	5.2	1.7			
-20		4.8	15.0	33.6	81.4	111.5	155.0	309.9	309.9	155.0	111.5	81.4	33.6	15.0	4.8				
-30	1.4	4.1	13.2	26.3	56.9	100.2	117.3	123.0	123.0	117.3	100.2	56.9	26.3	13.2	4.1	1.4			
-40		3.1	10.0	21.3	33.9	52.1	79.3	99.6	99.6	79.3	52.1	33.9	21.3	10.0	3.1				
-50	1.1	2.0	6.3	13.9	23.7	32.2	38.4	42.4	42.4	38.4	32.2	23.7	13.9	6.3	2.0	1.1			
-60		1.4	3.2	7.0	12.1	17.0	21.4	24.1	24.1	21.4	17.0	12.1	7.0	3.2	1.4				
-70	0.8	5.0		12.1		20.1		24.6		20.1		12.1		5.0		0.8			
-80		5.0		12.1		20.1		24.6		20.1		12.1		5.0					
-90	0.8		5.0		12.1		20.1		24.6		20.1		5.0		0.8				
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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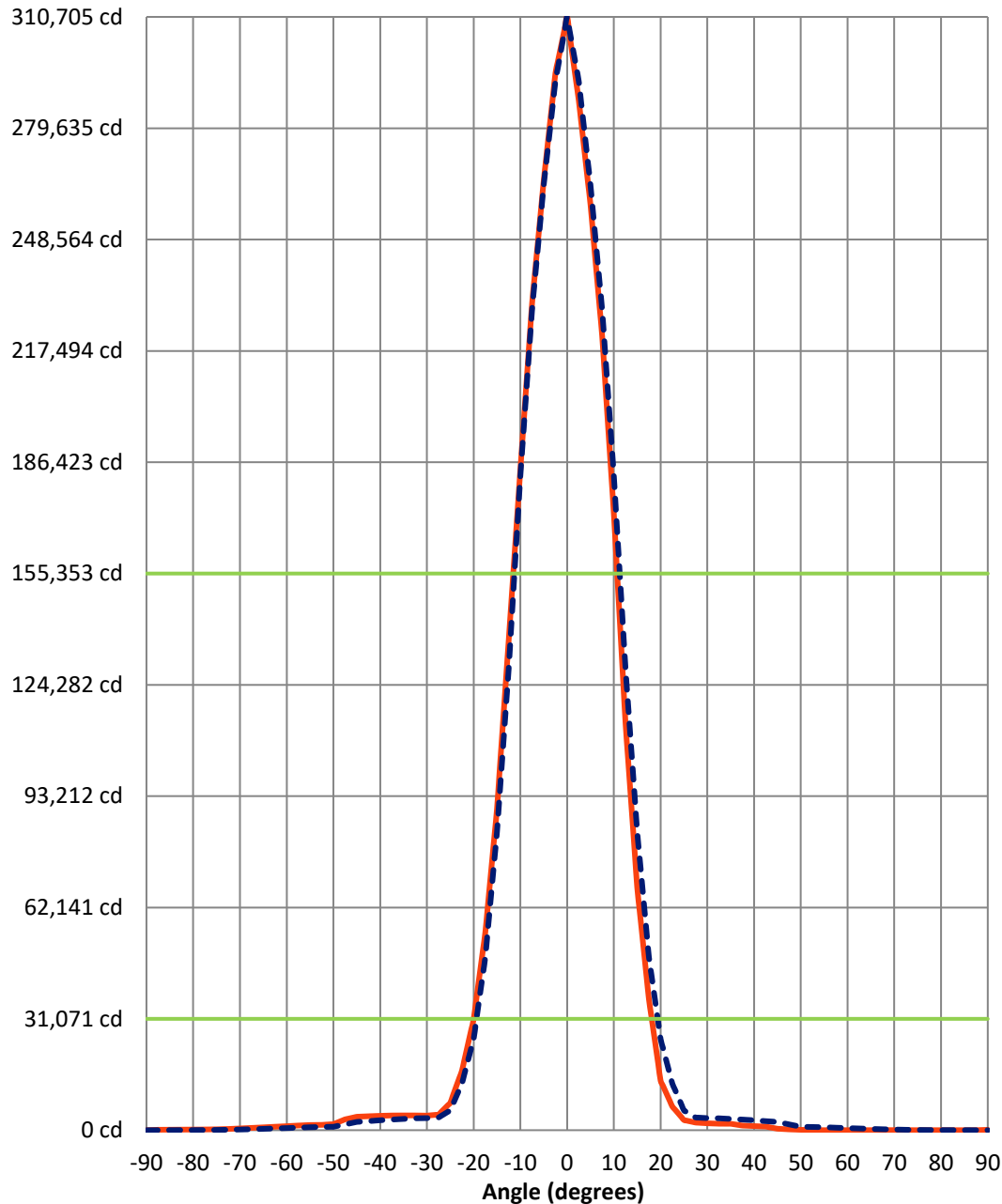
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 22.5°
 V Angle: 22.2°
 Lumens: 25376.6
 Efficiency: 46.7%

Field:
 H Angle: 38.8°
 V Angle: 38.1°
 Lumens: 45207.9
 Efficiency: 83.2%

Spill:
 Lumens: 9098.8
 Efficiency: 16.8%

— 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°	3.2	6.6	10.1	17.4	24.7	31.0	37.4	42.2	46.9	50.7	54.5
87.5°	3.2	3.3	3.3	3.3	3.3	3.3	3.4	3.3	3.2	3.2	3.2
85°	3.2	3.4	3.4	3.4	3.4	3.5	3.5	3.4	3.2	3.2	3.2
82.5°	3.2	3.4	3.5	3.6	3.5	3.6	3.7	3.5	3.2	3.3	3.4
80°	3.2	3.5	3.6	3.7	3.6	3.7	3.8	3.7	3.7	3.7	3.6
77.5°	3.2	3.6	3.7	3.8	3.7	3.9	4.0	4.0	4.1	4.1	3.9
75°	3.2	3.7	3.8	3.9	3.9	4.1	4.2	4.2	4.4	4.4	4.2
72.5°	3.2	3.8	4.0	4.0	4.1	4.3	4.3	4.5	4.7	4.6	4.5
70°	3.2	3.8	4.1	4.2	4.3	4.5	4.6	4.8	5.0	4.9	4.9
67.5°	3.2	3.9	4.2	4.4	4.6	4.8	4.9	5.1	5.3	5.4	5.3
65°	3.2	4.0	4.3	4.5	4.8	5.1	5.3	5.5	5.9	5.8	5.8
62.5°	3.2	4.1	4.4	4.7	5.0	5.5	5.7	6.2	6.6	6.5	6.8
60°	3.2	4.2	4.6	4.9	5.2	5.8	6.2	7.1	7.5	7.8	7.9
57.5°	3.2	4.2	4.7	5.0	5.7	6.2	7.2	8.1	9.0	9.4	10.6
55°	3.2	4.3	4.9	5.2	6.1	6.6	8.4	9.3	10.9	11.7	14.2
52.5°	3.2	4.4	5.1	5.4	6.6	7.2	9.6	11.2	12.9	16.2	18.2
50°	3.2	4.5	5.4	5.5	7.1	8.5	11.0	13.4	15.8	21.0	26.1
47.5°	3.2	4.6	5.6	5.7	7.6	9.9	12.5	15.6	20.6	26.2	35.4
45°	3.2	4.6	5.8	6.2	8.2	11.3	14.5	17.9	26.0	35.6	45.6
42.5°	3.2	4.7	6.1	6.6	8.8	12.8	16.6	21.9	31.8	45.7	62.0
40°	3.2	4.8	6.4	7.2	9.7	14.3	18.8	27.1	39.2	56.5	80.7
37.5°	3.2	4.9	6.7	8.0	10.9	15.9	21.2	32.5	49.6	70.4	100.6
35°	3.2	4.9	7.0	8.8	12.1	17.7	23.6	38.1	60.7	89.0	122.9
32.5°	3.2	5.0	7.3	9.6	13.3	19.7	26.7	43.9	72.2	108.0	146.7
30°	3.2	5.1	7.6	10.4	14.5	21.6	31.4	50.6	84.1	127.1	169.3
27.5°	3.2	5.2	7.9	11.2	16.0	23.5	36.1	59.4	96.4	146.4	190.7
25°	3.2	5.2	8.3	12.1	17.6	25.4	40.7	67.7	109.2	164.7	211.0
22.5°	3.2	5.3	8.6	13.0	19.1	27.4	45.1	75.5	121.0	177.1	233.0
20°	3.2	5.3	8.9	13.8	20.5	29.4	49.5	82.8	131.8	188.5	250.2
17.5°	3.2	5.4	9.3	14.7	21.9	31.4	53.5	89.6	141.6	199.1	266.4
15°	3.2	5.5	9.6	15.6	23.2	33.3	57.0	95.6	150.3	208.6	281.9
12.5°	3.2	5.5	9.9	16.4	24.5	35.1	60.3	100.7	158.6	217.2	296.7
10°	3.2	5.6	10.3	17.3	25.7	36.8	63.2	105.2	166.4	227.9	311.9
7.5°	3.2	5.6	10.6	18.1	26.8	38.4	65.8	109.1	173.5	238.2	329.2
5°	3.2	5.6	10.9	18.9	27.9	39.9	68.1	112.5	179.7	247.6	345.1
2.5°	3.2	5.7	11.1	19.6	28.9	41.2	70.1	115.2	184.9	256.0	359.3
0°	3.2	5.7	11.4	20.3	29.8	42.5	71.7	117.3	189.0	263.2	371.6
-2.5°	3.2	5.9	12.0	21.2	31.1	44.3	74.0	121.6	194.8	270.8	378.0
-5°	3.2	6.2	12.6	22.0	32.3	45.9	75.9	125.1	199.3	276.9	382.4
-7.5°	3.2	6.4	13.1	22.8	33.5	47.4	77.5	127.9	202.6	281.6	384.7
-10°	3.2	6.6	13.6	23.5	34.5	48.8	78.6	129.9	204.6	284.7	385.1
-12.5°	3.2	6.9	14.1	24.2	35.5	50.0	79.4	130.8	205.2	286.0	384.6
-15°	3.2	7.1	14.6	24.8	36.3	51.0	79.8	130.8	203.7	283.7	382.0
-17.5°	3.2	7.3	15.0	25.4	37.1	51.9	79.8	129.5	199.9	279.7	376.3
-20°	3.2	7.5	15.4	25.9	37.8	52.6	79.5	127.0	194.9	274.0	367.5



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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°	3.2	7.6	15.7	26.3	38.3	53.1	78.9	123.7	188.6	266.6	355.8
-25°	3.2	7.8	16.1	26.7	38.7	53.6	77.8	119.6	181.0	257.5	344.3
-27.5°	3.2	7.9	16.3	27.0	39.1	53.9	76.3	114.6	172.2	249.9	336.2
-30°	3.2	8.1	16.5	27.2	39.3	54.1	74.2	108.8	165.2	241.5	326.1
-32.5°	3.2	8.2	16.7	27.4	39.6	54.1	71.7	105.2	159.3	231.2	313.8
-35°	3.2	8.3	16.8	27.5	39.8	53.9	70.7	102.1	151.9	219.1	299.3
-37.5°	3.2	8.4	16.9	27.6	39.9	53.7	70.3	98.5	143.0	205.2	283.6
-40°	3.2	8.4	17.0	27.5	39.9	53.7	69.7	94.1	132.7	192.6	266.0
-42.5°	3.2	8.5	16.9	27.5	39.8	53.5	68.8	88.8	124.9	179.1	246.0
-45°	3.2	8.5	16.9	27.5	39.8	53.2	67.7	84.8	117.9	163.7	224.4
-47.5°	3.2	8.6	16.8	27.4	39.7	52.8	66.4	83.1	109.8	146.9	205.0
-50°	3.2	8.6	16.6	27.3	39.5	52.3	65.5	81.2	100.7	136.3	183.6
-52.5°	3.2	8.5	16.4	27.1	39.1	51.6	64.6	79.0	95.9	124.8	160.8
-55°	3.2	8.5	16.2	26.8	38.7	50.9	63.5	76.6	92.9	112.2	145.5
-57.5°	3.2	8.5	15.9	26.4	38.1	50.1	62.2	75.0	89.5	106.2	129.5
-60°	3.2	8.4	15.6	26.0	37.5	49.1	60.8	73.3	86.1	101.8	116.3
-62.5°	3.2	8.3	15.3	25.5	36.7	47.9	59.3	71.3	83.6	96.8	110.3
-65°	3.2	8.2	15.0	24.9	35.9	46.7	57.6	69.1	80.8	92.7	103.9
-67.5°	3.2	8.1	14.7	24.3	35.0	45.3	55.8	66.7	77.8	88.7	98.7
-70°	3.2	8.0	14.3	23.5	33.9	43.8	53.7	64.2	74.8	84.5	93.8
-72.5°	3.2	7.9	13.9	22.9	32.8	42.2	51.7	61.5	71.7	80.5	88.8
-75°	3.2	7.7	13.4	22.3	31.6	40.5	49.5	58.8	68.4	76.4	84.0
-77.5°	3.2	7.6	12.9	21.6	30.5	38.7	47.2	55.8	64.8	72.0	79.0
-80°	3.2	7.4	12.4	20.9	29.5	37.1	44.8	52.7	61.0	67.4	73.6
-82.5°	3.2	7.2	11.9	20.1	28.4	35.7	43.0	49.8	57.0	62.6	68.1
-85°	3.2	7.1	11.3	19.2	27.2	34.2	41.2	47.4	53.7	58.4	63.0
-87.5°	3.2	6.9	10.7	18.3	26.0	32.7	39.3	44.8	50.4	54.6	58.8
-90°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2



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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°	57.4	60.2	62.8	65.3	68.2	71.0	74.2	77.4	80.6	83.7	86.3
87.5°	3.0	2.9	2.9	2.9	2.7	2.5	2.5	2.5	2.2	1.9	1.9
85°	3.2	3.2	3.2	3.2	2.9	2.7	2.6	2.5	2.3	2.2	2.3
82.5°	3.4	3.5	3.4	3.2	3.1	3.2	2.9	2.6	2.6	2.7	2.6
80°	3.7	3.8	3.6	3.4	3.3	3.2	3.1	3.1	3.2	3.2	3.0
77.5°	3.9	3.8	3.7	3.7	3.6	3.4	3.4	3.5	3.5	3.3	3.2
75°	4.1	3.9	3.9	3.8	3.7	3.7	3.8	3.8	3.7	3.6	3.5
72.5°	4.4	4.2	4.1	3.9	3.9	3.9	3.8	3.8	4.4	5.3	5.9
70°	4.7	4.6	4.5	4.3	4.2	4.2	5.0	6.4	8.0	9.2	10.8
67.5°	5.1	5.0	4.9	4.8	5.1	5.9	7.1	11.2	15.4	16.9	17.7
65°	5.7	5.6	5.6	5.9	6.3	9.5	13.7	18.6	23.9	24.8	23.8
62.5°	6.3	7.1	6.9	8.0	10.9	14.8	20.1	25.7	31.7	30.3	25.3
60°	8.7	9.2	10.2	12.7	15.9	20.3	26.2	28.6	31.2	31.6	24.5
57.5°	11.8	13.1	15.5	18.1	22.4	24.9	25.7	25.8	29.4	29.6	22.5
55°	16.4	18.6	22.3	25.4	28.1	25.4	25.4	27.7	29.0	26.7	20.0
52.5°	23.6	25.9	31.6	33.9	32.4	30.2	29.6	31.6	30.5	27.2	23.1
50°	31.6	38.4	42.1	44.0	40.4	40.0	36.7	38.6	39.8	38.0	39.7
47.5°	44.5	52.7	55.7	58.5	55.6	58.7	55.6	64.7	64.9	87.2	89.8
45°	60.1	71.2	74.8	81.2	86.2	89.1	106.7	107.9	155.3	173.9	213.9
42.5°	78.5	93.0	105.6	108.8	138.7	153.0	177.9	223.7	267.5	305.2	326.5
40°	102.0	117.5	143.9	173.4	207.3	240.7	278.0	331.7	378.0	398.3	409.0
37.5°	127.8	157.5	192.7	242.0	292.4	330.8	375.1	425.6	456.4	467.1	469.6
35°	155.5	198.3	257.2	308.9	363.0	414.6	455.9	504.2	514.5	523.1	570.7
32.5°	189.2	239.1	308.5	366.6	421.3	480.4	522.2	550.8	567.2	598.7	753.6
30°	222.9	281.5	350.2	411.9	475.8	532.0	571.8	599.5	618.3	766.5	1088.3
27.5°	250.7	318.0	386.2	457.9	528.6	584.9	623.2	648.4	757.8	1003.5	1499.1
25°	275.9	346.6	422.3	508.8	583.0	635.2	674.5	699.4	944.2	1445.9	1789.6
22.5°	299.5	374.3	463.0	562.6	637.3	681.6	719.3	854.9	1225.6	1894.2	2079.1
20°	322.6	407.6	507.3	608.1	688.1	721.0	760.6	1029.1	1587.5	2066.8	2269.3
17.5°	346.5	441.8	549.0	643.1	714.7	756.1	819.5	1198.2	1893.1	2217.9	2364.3
15°	370.4	474.0	583.0	673.9	740.8	790.5	954.3	1440.4	2082.5	2383.9	2521.8
12.5°	393.8	502.2	608.6	700.3	768.2	823.1	1077.6	1690.8	2253.5	2546.9	2729.5
10°	416.4	526.6	630.5	725.8	794.9	854.8	1202.2	1935.6	2408.0	2653.1	2806.2
7.5°	436.1	546.5	649.4	750.3	819.9	885.8	1338.8	2097.9	2473.7	2720.7	2845.1
5°	453.0	562.2	668.6	777.5	845.9	914.4	1462.8	2205.0	2498.6	2762.3	2885.7
2.5°	467.2	574.9	685.1	803.1	871.4	938.6	1549.7	2272.9	2515.6	2778.3	2925.7
0°	478.8	584.7	698.8	825.6	894.7	960.0	1614.5	2305.6	2521.2	2772.3	2963.2
-2.5°	486.3	599.0	724.1	847.3	913.8	978.0	1611.8	2324.9	2528.1	2804.4	3108.1
-5°	491.4	610.2	745.4	865.6	931.1	993.9	1584.2	2310.8	2543.5	2853.0	3202.8
-7.5°	493.9	617.7	761.8	880.3	947.5	1011.6	1550.1	2278.3	2621.6	2953.2	3262.3
-10°	494.7	622.1	765.1	887.4	962.6	1029.1	1494.0	2210.0	2683.3	2995.1	3279.5
-12.5°	498.0	624.2	763.3	890.3	975.5	1045.1	1424.6	2164.8	2766.2	3020.9	3273.3
-15°	497.7	623.4	758.2	889.5	991.2	1066.4	1332.4	2058.0	2816.8	3026.7	3256.4
-17.5°	493.5	619.8	750.4	886.5	1006.2	1082.4	1202.3	1838.2	2672.3	3001.1	3236.5
-20°	485.2	612.1	739.4	876.9	1014.5	1097.2	1186.7	1645.9	2375.0	2933.2	3198.9



REPORT NUMBER: P731409 (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°	473.3	600.7	726.0	860.8	1010.5	1113.9	1197.5	1458.8	2081.3	2832.6	3138.1
-25°	459.4	584.8	710.5	852.0	1004.7	1129.9	1199.8	1284.9	1825.9	2499.6	3033.3
-27.5°	444.1	565.1	693.5	833.6	995.6	1127.0	1198.9	1279.2	1553.8	2089.9	2866.4
-30°	426.2	543.1	669.9	806.8	963.5	1096.7	1196.1	1262.5	1346.4	1768.6	2430.8
-32.5°	406.5	518.1	641.8	776.4	922.2	1062.8	1179.5	1249.1	1322.7	1467.3	2001.1
-35°	387.2	494.0	610.9	741.4	880.1	1016.8	1136.2	1235.0	1296.8	1378.1	1621.7
-37.5°	369.2	467.1	577.0	703.2	837.3	959.7	1088.8	1195.9	1280.5	1339.4	1437.9
-40°	348.5	436.9	542.3	660.4	780.9	897.4	1020.2	1140.6	1244.5	1322.1	1380.9
-42.5°	325.1	409.6	505.0	609.9	721.3	832.1	948.3	1067.5	1181.5	1283.9	1356.7
-45°	299.8	379.2	465.0	560.3	659.1	764.8	875.3	988.1	1101.4	1214.2	1304.0
-47.5°	270.6	345.7	427.1	507.3	598.4	695.5	798.2	904.3	1009.0	1117.9	1221.4
-50°	240.1	309.6	383.9	457.9	537.0	624.7	718.8	817.9	917.2	1017.8	1117.5
-52.5°	212.4	270.2	338.7	408.4	478.3	553.3	638.5	728.9	822.6	917.4	1004.6
-55°	182.9	234.9	291.2	356.4	422.0	487.3	556.5	638.3	723.2	811.2	889.4
-57.5°	160.2	199.3	247.9	301.9	362.9	424.7	485.4	546.8	622.7	700.9	766.6
-60°	141.4	169.6	206.8	252.4	301.0	358.1	415.2	472.2	530.9	586.9	647.6
-62.5°	124.2	147.2	173.4	205.2	247.4	291.4	342.1	394.7	448.4	496.7	541.3
-65°	116.8	127.8	147.4	171.2	195.4	233.0	273.6	315.0	361.6	404.4	444.7
-67.5°	108.9	119.1	129.3	141.9	163.6	185.8	208.2	244.8	281.3	314.4	347.2
-70°	102.6	110.4	119.5	128.6	138.0	150.8	170.8	191.5	212.2	235.0	262.7
-72.5°	96.4	103.5	110.7	117.8	126.1	135.0	144.1	153.5	167.8	185.4	201.3
-75°	90.5	96.4	102.8	109.4	116.0	122.7	130.1	138.8	147.3	155.9	163.9
-77.5°	84.7	90.1	95.5	101.1	106.8	112.7	119.2	126.0	133.1	140.1	146.4
-80°	78.7	83.8	88.4	93.1	98.3	103.4	108.8	114.4	120.6	127.1	132.7
-82.5°	72.3	76.4	80.7	84.9	89.6	94.3	99.0	103.7	108.7	114.0	118.6
-85°	66.1	69.0	72.7	76.3	80.5	84.7	88.7	92.6	97.1	101.5	105.1
-87.5°	61.7	64.6	67.5	70.4	73.7	77.1	80.3	83.6	87.3	90.9	93.8
-90°	2.9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.2	1.9	1.9



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	88.8	90.7	92.6	93.6	94.5	96.4	98.3	101.2	104.0	107.2	110.3
87.5°	1.9	1.9	1.9	1.9	1.8	1.6	1.3	1.3	1.3	1.3	1.3
85°	2.3	2.3	2.3	2.1	1.9	1.9	1.8	1.8	1.9	1.6	1.3
82.5°	2.5	2.5	2.5	2.4	2.3	2.1	1.9	1.9	1.9	1.9	1.9
80°	2.7	2.6	2.5	2.5	2.5	2.4	2.4	2.2	1.9	2.2	2.4
77.5°	3.2	3.0	2.8	2.7	2.5	2.4	2.1	2.0	1.9	1.9	1.9
75°	3.3	3.4	3.8	3.9	3.7	3.4	2.9	2.8	2.9	2.8	2.5
72.5°	6.5	6.8	7.0	7.6	7.9	8.3	9.0	10.2	11.7	13.0	14.3
70°	13.0	14.8	15.2	15.2	15.2	15.6	16.3	17.1	18.1	18.9	19.7
67.5°	19.9	21.5	21.7	22.1	21.5	20.6	19.8	19.8	20.9	22.3	23.7
65°	24.3	22.7	21.5	21.3	20.9	19.8	18.2	17.0	16.7	16.5	16.5
62.5°	21.9	18.7	17.6	17.4	16.4	15.2	13.0	11.1	10.2	9.7	9.7
60°	19.0	15.3	13.0	12.0	10.5	8.9	7.5	6.1	5.7	5.5	5.6
57.5°	15.6	11.7	9.0	8.6	7.4	5.9	4.8	3.8	3.6	3.6	3.9
55°	14.3	12.2	10.2	9.5	8.2	7.5	6.5	5.1	4.8	5.1	5.6
52.5°	18.6	17.4	16.5	16.6	18.2	16.9	12.6	17.7	20.5	20.5	19.6
50°	40.7	36.6	52.3	50.3	62.9	71.3	64.7	72.6	83.9	91.9	97.5
47.5°	116.2	120.5	139.2	155.5	168.5	183.2	198.0	206.9	209.2	224.0	234.2
45°	234.1	248.1	268.9	279.4	300.0	324.3	341.4	349.0	393.9	449.7	485.7
42.5°	339.7	350.5	366.9	404.0	441.7	525.1	620.7	624.0	710.5	787.0	865.2
40°	413.6	434.0	492.2	580.3	783.7	942.4	1055.3	1166.0	1184.5	1148.5	1168.1
37.5°	509.2	582.0	729.6	967.4	1143.3	1302.7	1366.9	1375.2	1397.6	1411.6	1389.4
35°	689.4	932.2	1054.6	1256.7	1384.7	1415.8	1435.2	1454.3	1472.7	1485.2	1498.8
32.5°	1084.2	1384.9	1401.1	1453.0	1477.0	1504.5	1525.1	1537.1	1545.4	1556.3	1593.5
30°	1508.5	1578.6	1584.4	1580.2	1588.5	1607.0	1620.5	1642.4	1664.3	1689.4	1771.7
27.5°	1706.7	1760.3	1743.6	1715.0	1700.8	1715.5	1752.2	1786.3	1849.7	1916.5	2034.7
25°	1926.0	1961.5	1941.2	1890.4	1858.5	1879.5	1934.5	1999.5	2120.9	2227.9	2445.2
22.5°	2160.9	2226.9	2205.6	2190.5	2123.4	2133.4	2176.8	2323.5	2627.1	3107.6	4105.4
20°	2343.1	2423.8	2434.1	2434.4	2420.3	2424.4	2525.3	2998.4	3885.8	6674.3	9146.4
17.5°	2478.1	2525.5	2582.3	2605.6	2633.4	2714.0	3252.0	4888.7	8720.9	13849.8	17777.2
15°	2653.2	2713.8	2775.4	2814.4	2876.9	3320.6	4696.3	9723.0	16691.8	25396.7	36523.4
12.5°	2793.3	2868.0	2916.9	2947.8	3091.9	4259.2	9045.7	16282.0	27155.0	40663.0	60701.6
10°	2870.9	2929.1	2995.8	3102.9	3690.3	6178.1	12756.3	22880.4	39594.5	63925.9	90615.5
7.5°	2909.4	2984.8	3096.4	3259.1	4367.8	9019.0	17746.4	32295.7	55124.8	85422.1	122610.1
5°	2954.3	3093.7	3226.5	3412.9	4894.0	11070.2	21713.0	40325.9	68665.4	105728.4	151655.8
2.5°	3027.0	3236.6	3322.1	3501.1	5211.0	12390.6	24078.4	46606.6	78776.6	122299.0	173863.4
0°	3141.4	3315.8	3367.1	3547.2	5530.1	13043.7	25467.9	48328.9	83280.6	128752.1	182609.9
-2.5°	3270.7	3379.6	3436.6	3637.3	5690.3	13709.9	26561.0	49486.1	82207.9	126602.5	179324.0
-5°	3355.1	3441.6	3496.7	3692.9	5672.7	13043.7	25339.6	46083.8	75936.8	115644.0	162780.7
-7.5°	3412.5	3502.5	3560.3	3740.1	5337.4	11272.4	22381.2	39723.6	64533.2	97098.3	137812.5
-10°	3468.6	3566.9	3642.6	3784.6	4723.9	8605.3	17566.7	29968.5	50469.0	76379.5	106820.3
-12.5°	3519.2	3640.7	3738.0	3803.4	4147.8	6545.3	12909.4	22922.6	36327.1	55668.9	77944.6
-15°	3544.7	3690.1	3799.0	3871.1	4070.9	5175.4	8359.5	15168.3	25362.1	37359.4	51854.3
-17.5°	3500.7	3717.3	3822.2	3901.6	3967.3	4251.2	5896.7	9310.9	15677.7	23537.0	30617.7
-20°	3430.5	3720.4	3839.2	3946.0	4020.7	4098.0	4307.6	5929.5	8519.7	13341.3	18060.5



REPORT NUMBER: P731409 (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°	3371.2	3640.7	3888.6	4004.1	4089.9	4095.6	4102.1	4297.3	5308.7	6933.2	9429.6
-25°	3330.1	3585.1	3873.5	4052.4	4111.9	4114.0	4081.6	4045.3	4160.0	4275.2	5187.4
-27.5°	3260.5	3537.2	3808.3	4026.3	4114.5	4111.5	4086.9	4062.6	4022.9	3997.0	4095.4
-30°	3175.4	3453.4	3705.8	3925.1	4055.8	4095.9	4079.1	4061.1	4048.8	4040.2	4022.6
-32.5°	2721.8	3350.5	3563.1	3762.1	3948.6	4030.3	4066.7	4058.2	4047.2	4042.5	4045.6
-35°	2223.3	2872.3	3424.3	3566.2	3728.0	3890.6	4005.3	4031.2	4042.7	4040.7	4045.8
-37.5°	1704.7	2289.4	2831.8	3285.1	3480.0	3649.0	3815.7	3926.1	3992.4	4003.9	4019.5
-40°	1469.2	1634.5	2148.3	2604.0	2983.0	3332.0	3508.5	3699.4	3848.4	3908.3	3939.8
-42.5°	1406.9	1472.6	1540.1	1874.3	2266.7	2599.4	2929.1	3256.7	3528.5	3682.4	3782.5
-45°	1379.8	1416.4	1455.4	1509.2	1557.3	1838.3	2141.0	2460.2	2817.6	3084.5	3333.2
-47.5°	1300.8	1374.5	1411.8	1434.6	1451.6	1488.7	1521.8	1611.8	1909.2	2143.1	2402.5
-50°	1196.3	1271.3	1332.1	1386.2	1404.7	1413.2	1423.2	1453.1	1500.6	1535.1	1587.4
-52.5°	1075.4	1145.8	1213.5	1271.4	1312.7	1348.4	1382.3	1405.9	1425.2	1445.1	1464.0
-55°	959.8	1019.7	1077.7	1132.1	1181.4	1222.5	1262.9	1301.4	1337.5	1371.5	1403.1
-57.5°	832.9	892.8	946.2	994.9	1037.0	1071.2	1111.1	1153.6	1193.3	1228.6	1262.9
-60°	704.9	759.4	810.5	856.6	895.1	925.4	964.2	1002.2	1038.5	1071.3	1100.1
-62.5°	584.6	631.1	675.1	715.8	752.2	784.7	817.3	849.9	884.2	914.9	942.0
-65°	482.9	520.0	551.2	580.3	604.8	634.1	665.4	694.6	724.9	753.3	779.2
-67.5°	380.7	412.2	438.4	463.5	483.9	504.6	527.9	550.1	571.4	593.6	615.2
-70°	287.3	309.5	326.0	343.2	363.3	382.2	401.0	419.8	437.6	457.0	477.0
-72.5°	214.4	225.2	236.1	250.0	262.1	275.7	289.2	303.6	318.4	332.5	345.6
-75°	171.6	178.4	186.7	193.5	198.7	205.4	212.8	221.9	231.1	240.3	248.9
-77.5°	152.7	157.4	161.2	164.1	166.7	170.0	173.4	179.8	186.7	194.3	202.1
-80°	138.0	141.1	143.7	145.8	147.7	150.5	153.4	158.9	164.8	170.5	176.1
-82.5°	123.2	125.7	127.8	129.7	131.4	134.1	136.8	141.2	145.7	151.3	156.8
-85°	108.7	110.9	113.0	114.7	116.3	118.4	120.5	124.6	128.8	133.2	137.6
-87.5°	96.6	98.4	100.3	101.7	103.1	104.9	106.7	109.9	113.2	116.8	120.3
-90°	1.9	1.9	1.9	1.6	1.3	1.3	1.3	1.3	1.3	1.0	0.6



REPORT NUMBER: P731409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-2S-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	110.7	111.0	111.0	111.0	111.0	111.0	110.7	110.3	107.2	104.0	101.2
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6	1.9	1.8
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.2	1.9	2.2
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0
75°	2.2	1.9	1.9	1.9	1.9	1.9	2.2	2.5	2.8	2.9	2.8
72.5°	15.5	16.6	17.3	17.8	17.3	16.6	15.5	14.3	13.0	11.7	10.2
70°	20.0	20.2	20.3	20.3	20.3	20.2	20.0	19.7	18.9	18.1	17.1
67.5°	24.6	25.2	25.4	25.4	25.4	25.2	24.6	23.7	22.3	20.9	19.8
65°	15.7	14.6	13.5	12.7	13.5	14.6	15.7	16.5	16.5	16.7	17.0
62.5°	9.5	9.1	9.0	8.9	9.0	9.1	9.5	9.7	9.7	10.2	11.1
60°	5.7	5.8	5.5	5.1	5.5	5.8	5.7	5.6	5.5	5.7	6.1
57.5°	4.1	4.4	4.7	5.1	4.7	4.4	4.1	3.9	3.6	3.6	3.8
55°	6.1	6.7	7.2	7.6	7.2	6.7	6.1	5.6	5.1	4.8	5.1
52.5°	17.7	15.9	15.3	15.9	15.3	15.9	17.7	19.6	20.5	20.5	17.7
50°	100.4	102.4	104.9	107.8	104.9	102.4	100.4	97.5	91.9	83.9	72.6
47.5°	237.1	232.6	228.4	227.0	228.4	232.6	237.1	234.2	224.0	209.2	206.9
45°	449.5	416.5	399.6	409.6	399.6	416.5	449.5	485.7	449.7	393.9	349.0
42.5°	907.2	956.2	994.5	1012.7	994.5	956.2	907.2	865.2	787.0	710.5	624.0
40°	1137.4	1119.0	1128.9	1143.9	1128.9	1119.0	1137.4	1168.1	1148.5	1184.5	1166.0
37.5°	1400.2	1406.3	1362.1	1289.8	1362.1	1406.3	1400.2	1389.4	1411.6	1397.6	1375.2
35°	1527.7	1606.5	1754.0	1789.5	1754.0	1606.5	1527.7	1498.8	1485.2	1472.7	1454.3
32.5°	1687.3	1769.0	1794.1	1804.1	1794.1	1769.0	1687.3	1593.5	1556.3	1545.4	1537.1
30°	1878.0	1914.9	1905.6	1919.5	1905.6	1914.9	1878.0	1771.7	1689.4	1664.3	1642.4
27.5°	2086.9	2108.5	2101.5	2119.8	2101.5	2108.5	2086.9	2034.7	1916.5	1849.7	1786.3
25°	2626.2	2796.6	2787.7	2827.5	2787.7	2796.6	2626.2	2445.2	2227.9	2120.9	1999.5
22.5°	5320.0	5922.4	6283.1	6632.2	6283.1	5922.4	5320.0	4105.4	3107.6	2627.1	2323.5
20°	11886.8	13622.8	14000.6	13863.0	14000.6	13622.8	11886.8	9146.4	6674.3	3885.8	2998.4
17.5°	25515.4	32441.7	36160.7	36574.4	36160.7	32441.7	25515.4	17777.2	13849.8	8720.9	4888.7
15°	48018.5	60124.0	66997.3	67719.4	66997.3	60124.0	48018.5	36523.4	25396.7	16691.8	9723.0
12.5°	78498.6	97776.8	111929.2	113508.1	111929.2	97776.8	78498.6	60701.6	40663.0	27155.0	16282.0
10°	120249.3	146313.3	166923.7	171944.8	166923.7	146313.3	120249.3	90615.5	63925.9	39594.5	22880.4
7.5°	161920.7	191665.0	215922.2	221629.4	215922.2	191665.0	161920.7	122610.1	85422.1	55124.8	32295.7
5°	194496.7	232553.9	251911.4	258307.1	251911.4	232553.9	194496.7	151655.8	105728.4	68665.4	40325.9
2.5°	219327.5	255262.7	277988.0	287311.8	277988.0	255262.7	219327.5	173863.4	122299.0	78776.6	46606.6
0°	228912.8	263770.0	292709.4	310705.2	292709.4	263770.0	228912.8	182609.9	128752.1	83280.6	48328.9
-2.5°	225155.6	258717.0	283311.9	294985.5	283311.9	258717.0	225155.6	179324.0	126602.5	82207.9	49486.1
-5°	206161.3	240030.9	259047.0	265070.6	259047.0	240030.9	206161.3	162780.7	115644.0	75936.8	46083.8
-7.5°	174331.2	204143.9	226692.0	230733.7	226692.0	204143.9	174331.2	137812.5	97098.3	64533.2	39723.6
-10°	138168.0	163976.1	181177.3	184431.1	181177.3	163976.1	138168.0	106820.3	76379.5	50469.0	29968.5
-12.5°	97940.5	120610.3	134210.0	136719.5	134210.0	120610.3	97940.5	77944.6	55668.9	36327.1	22922.6
-15°	66555.5	80676.0	88918.8	89751.1	88918.8	80676.0	66555.5	51854.3	37359.4	25362.1	15168.3
-17.5°	41643.8	50043.0	55180.4	55228.1	55180.4	50043.0	41643.8	30617.7	23537.0	15677.7	9310.9
-20°	24109.3	28117.4	30991.6	30979.6	30991.6	28117.4	24109.3	18060.5	13341.3	8519.7	5929.5



REPORT NUMBER: P731409 (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°	12561.2	14943.5	16676.5	16597.3	16676.5	14943.5	12561.2	9429.6	6933.2	5308.7	4297.3
-25°	6168.2	7080.2	7687.2	7639.8	7687.2	7080.2	6168.2	5187.4	4275.2	4160.0	4045.3
-27.5°	4180.2	4280.5	4349.8	4357.0	4349.8	4280.5	4180.2	4095.4	3997.0	4022.9	4062.6
-30°	4015.8	4038.8	4062.9	4069.1	4062.9	4038.8	4015.8	4022.6	4040.2	4048.8	4061.1
-32.5°	4055.5	4073.4	4099.9	4116.7	4099.9	4073.4	4055.5	4045.6	4042.5	4047.2	4058.2
-35°	4058.4	4079.2	4109.8	4123.6	4109.8	4079.2	4058.4	4045.8	4040.7	4042.7	4031.2
-37.5°	4039.5	4064.9	4091.3	4103.3	4091.3	4064.9	4039.5	4019.5	4003.9	3992.4	3926.1
-40°	3967.8	3993.8	4013.1	4014.6	4013.1	3993.8	3967.8	3939.8	3908.3	3848.4	3699.4
-42.5°	3849.1	3881.3	3896.1	3893.5	3896.1	3881.3	3849.1	3782.5	3682.4	3528.5	3256.7
-45°	3569.0	3683.0	3739.0	3752.7	3739.0	3683.0	3569.0	3333.2	3084.5	2817.6	2460.2
-47.5°	2703.2	2870.4	2977.6	3020.3	2977.6	2870.4	2703.2	2402.5	2143.1	1909.2	1611.8
-50°	1655.7	1671.2	1681.5	1686.7	1681.5	1671.2	1655.7	1587.4	1535.1	1500.6	1453.1
-52.5°	1479.8	1484.2	1486.6	1487.0	1486.6	1484.2	1479.8	1464.0	1445.1	1425.2	1405.9
-55°	1426.0	1434.9	1440.5	1442.0	1440.5	1434.9	1426.0	1403.1	1371.5	1337.5	1301.4
-57.5°	1285.5	1290.7	1296.4	1299.9	1296.4	1290.7	1285.5	1262.9	1228.6	1193.3	1153.6
-60°	1117.4	1122.1	1123.0	1119.8	1123.0	1122.1	1117.4	1100.1	1071.3	1038.5	1002.2
-62.5°	956.8	961.2	965.5	967.0	965.5	961.2	956.8	942.0	914.9	884.2	849.9
-65°	791.3	793.5	794.5	792.6	794.5	793.5	791.3	779.2	753.3	724.9	694.6
-67.5°	625.3	629.6	635.7	639.8	635.7	629.6	625.3	615.2	593.6	571.4	550.1
-70°	481.7	479.8	483.9	487.0	483.9	479.8	481.7	477.0	457.0	437.6	419.8
-72.5°	347.3	345.2	343.8	341.2	343.8	345.2	347.3	345.6	332.5	318.4	303.6
-75°	248.4	245.9	245.5	244.8	245.5	245.9	248.4	248.9	240.3	231.1	221.9
-77.5°	202.2	201.2	200.0	198.5	200.0	201.2	202.2	202.1	194.3	186.7	179.8
-80°	176.6	176.6	175.9	175.0	175.9	176.6	176.6	176.1	170.5	164.8	158.9
-82.5°	157.1	157.1	156.6	156.0	156.6	157.1	157.1	156.8	151.3	145.7	141.2
-85°	137.9	138.1	137.6	137.0	137.6	138.1	137.9	137.6	133.2	128.8	124.6
-87.5°	120.7	121.1	120.8	120.5	120.8	121.1	120.7	120.3	116.8	113.2	109.9
-90°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.0	1.3	1.3



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	98.3	96.4	94.5	93.6	92.6	90.7	88.8	86.3	83.7	80.6	77.4
87.5°	1.3	1.6	1.8	1.9	1.9	1.9	1.9	1.9	1.9	2.2	2.5
85°	1.8	1.9	1.9	2.1	2.3	2.3	2.3	2.3	2.2	2.3	2.5
82.5°	1.9	2.1	2.3	2.4	2.5	2.5	2.5	2.6	2.7	2.6	2.6
80°	2.4	2.4	2.5	2.5	2.5	2.6	2.7	3.0	3.2	3.2	3.1
77.5°	2.1	2.4	2.5	2.7	2.8	3.0	3.2	3.2	3.3	3.5	3.5
75°	2.9	3.4	3.7	3.9	3.8	3.4	3.3	3.5	3.6	3.7	3.8
72.5°	9.0	8.3	7.9	7.6	7.0	6.8	6.5	5.9	5.3	4.4	3.8
70°	16.3	15.6	15.2	15.2	15.2	14.8	13.0	10.8	9.2	8.0	6.4
67.5°	19.8	20.6	21.5	22.1	21.7	21.5	19.9	17.7	16.9	15.4	11.2
65°	18.2	19.8	20.9	21.3	21.5	22.7	24.3	23.8	24.8	23.9	18.6
62.5°	13.0	15.2	16.4	17.4	17.6	18.7	21.9	25.3	30.3	31.7	25.7
60°	7.5	8.9	10.5	12.0	13.0	15.3	19.0	24.5	31.6	31.2	28.6
57.5°	4.8	5.9	7.4	8.6	9.0	11.7	15.6	22.5	29.6	29.4	25.8
55°	6.5	7.5	8.2	9.5	10.2	12.2	14.3	20.0	26.7	29.0	27.7
52.5°	12.6	16.9	18.2	16.6	16.5	17.4	18.6	23.1	27.2	30.5	31.6
50°	64.7	71.3	62.9	50.3	52.3	36.6	40.7	39.7	38.0	39.8	38.6
47.5°	198.0	183.2	168.5	155.5	139.2	120.5	116.2	89.8	87.2	64.9	64.7
45°	341.4	324.3	300.0	279.4	268.9	248.1	234.1	213.9	173.9	155.3	107.9
42.5°	620.7	525.1	441.7	404.0	366.9	350.5	339.7	326.5	305.2	267.5	223.7
40°	1055.3	942.4	783.7	580.3	492.2	434.0	413.6	409.0	398.3	378.0	331.7
37.5°	1366.9	1302.7	1143.3	967.4	729.6	582.0	509.2	469.6	467.1	456.4	425.6
35°	1435.2	1415.8	1384.7	1256.7	1054.6	932.2	689.4	570.7	523.1	514.5	504.2
32.5°	1525.1	1504.5	1477.0	1453.0	1401.1	1384.9	1084.2	753.6	598.7	567.2	550.8
30°	1620.5	1607.0	1588.5	1580.2	1584.4	1578.6	1508.5	1088.3	766.5	618.3	599.5
27.5°	1752.2	1715.5	1700.8	1715.0	1743.6	1760.3	1706.7	1499.1	1003.5	757.8	648.4
25°	1934.5	1879.5	1858.5	1890.4	1941.2	1961.5	1926.0	1789.6	1445.9	944.2	699.4
22.5°	2176.8	2133.4	2123.4	2190.5	2205.6	2226.9	2160.9	2079.1	1894.2	1225.6	854.9
20°	2525.3	2424.4	2420.3	2434.4	2434.1	2423.8	2343.1	2269.3	2066.8	1587.5	1029.1
17.5°	3252.0	2714.0	2633.4	2605.6	2582.3	2525.5	2478.1	2364.3	2217.9	1893.1	1198.2
15°	4696.3	3320.6	2876.9	2814.4	2775.4	2713.8	2653.2	2521.8	2383.9	2082.5	1440.4
12.5°	9045.7	4259.2	3091.9	2947.8	2916.9	2868.0	2793.3	2729.5	2546.9	2253.5	1690.8
10°	12756.3	6178.1	3690.3	3102.9	2995.8	2929.1	2870.9	2806.2	2653.1	2408.0	1935.6
7.5°	17746.4	9019.0	4367.8	3259.1	3096.4	2984.8	2909.4	2845.1	2720.7	2473.7	2097.9
5°	21713.0	11070.2	4894.0	3412.9	3226.5	3093.7	2954.3	2885.7	2762.3	2498.6	2205.0
2.5°	24078.4	12390.6	5211.0	3501.1	3322.1	3236.6	3027.0	2925.7	2778.3	2515.6	2272.9
0°	25467.9	13043.7	5530.1	3547.2	3367.1	3315.8	3141.4	2963.2	2772.3	2521.2	2305.6
-2.5°	26561.0	13709.9	5690.3	3637.3	3436.6	3379.6	3270.7	3108.1	2804.4	2528.1	2324.9
-5°	25339.6	13043.7	5672.7	3692.9	3496.7	3441.6	3355.1	3202.8	2853.0	2543.5	2310.8
-7.5°	22381.2	11272.4	5337.4	3740.1	3560.3	3502.5	3412.5	3262.3	2953.2	2621.6	2278.3
-10°	17566.7	8605.3	4723.9	3784.6	3642.6	3566.9	3468.6	3279.5	2995.1	2683.3	2210.0
-12.5°	12909.4	6545.3	4147.8	3803.4	3738.0	3640.7	3519.2	3273.3	3020.9	2766.2	2164.8
-15°	8359.5	5175.4	4070.9	3871.1	3799.0	3690.1	3544.7	3256.4	3026.7	2816.8	2058.0
-17.5°	5896.7	4251.2	3967.3	3901.6	3822.2	3717.3	3500.7	3236.5	3001.1	2672.3	1838.2
-20°	4307.6	4098.0	4020.7	3946.0	3839.2	3720.4	3430.5	3198.9	2933.2	2375.0	1645.9



REPORT NUMBER: P731409 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	4102.1	4095.6	4089.9	4004.1	3888.6	3640.7	3371.2	3138.1	2832.6	2081.3	1458.8
-25°	4081.6	4114.0	4111.9	4052.4	3873.5	3585.1	3330.1	3033.3	2499.6	1825.9	1284.9
-27.5°	4086.9	4111.5	4114.5	4026.3	3808.3	3537.2	3260.5	2866.4	2089.9	1553.8	1279.2
-30°	4079.1	4095.9	4055.8	3925.1	3705.8	3453.4	3175.4	2430.8	1768.6	1346.4	1262.5
-32.5°	4066.7	4030.3	3948.6	3762.1	3563.1	3350.5	2721.8	2001.1	1467.3	1322.7	1249.1
-35°	4005.3	3890.6	3728.0	3566.2	3424.3	2872.3	2223.3	1621.7	1378.1	1296.8	1235.0
-37.5°	3815.7	3649.0	3480.0	3285.1	2831.8	2289.4	1704.7	1437.9	1339.4	1280.5	1195.9
-40°	3508.5	3332.0	2983.0	2604.0	2148.3	1634.5	1469.2	1380.9	1322.1	1244.5	1140.6
-42.5°	2929.1	2599.4	2266.7	1874.3	1540.1	1472.6	1406.9	1356.7	1283.9	1181.5	1067.5
-45°	2141.0	1838.3	1557.3	1509.2	1455.4	1416.4	1379.8	1304.0	1214.2	1101.4	988.1
-47.5°	1521.8	1488.7	1451.6	1434.6	1411.8	1374.5	1300.8	1221.4	1117.9	1009.0	904.3
-50°	1423.2	1413.2	1404.7	1386.2	1332.1	1271.3	1196.3	1117.5	1017.8	917.2	817.9
-52.5°	1382.3	1348.4	1312.7	1271.4	1213.5	1145.8	1075.4	1004.6	917.4	822.6	728.9
-55°	1262.9	1222.5	1181.4	1132.1	1077.7	1019.7	959.8	889.4	811.2	723.2	638.3
-57.5°	1111.1	1071.2	1037.0	994.9	946.2	892.8	832.9	766.6	700.9	622.7	546.8
-60°	964.2	925.4	895.1	856.6	810.5	759.4	704.9	647.6	586.9	530.9	472.2
-62.5°	817.3	784.7	752.2	715.8	675.1	631.1	584.6	541.3	496.7	448.4	394.7
-65°	665.4	634.1	604.8	580.3	551.2	520.0	482.9	444.7	404.4	361.6	315.0
-67.5°	527.9	504.6	483.9	463.5	438.4	412.2	380.7	347.2	314.4	281.3	244.8
-70°	401.0	382.2	363.3	343.2	326.0	309.5	287.3	262.7	235.0	212.2	191.5
-72.5°	289.2	275.7	262.1	250.0	236.1	225.2	214.4	201.3	185.4	167.8	153.5
-75°	212.8	205.4	198.7	193.5	186.7	178.4	171.6	163.9	155.9	147.3	138.8
-77.5°	173.4	170.0	166.7	164.1	161.2	157.4	152.7	146.4	140.1	133.1	126.0
-80°	153.4	150.5	147.7	145.8	143.7	141.1	138.0	132.7	127.1	120.6	114.4
-82.5°	136.8	134.1	131.4	129.7	127.8	125.7	123.2	118.6	114.0	108.7	103.7
-85°	120.5	118.4	116.3	114.7	113.0	110.9	108.7	105.1	101.5	97.1	92.6
-87.5°	106.7	104.9	103.1	101.7	100.3	98.4	96.6	93.8	90.9	87.3	83.6
-90°	1.3	1.3	1.3	1.6	1.9	1.9	1.9	1.9	1.9	2.2	2.5



REPORT NUMBER: P731409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-2S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	74.2	71.0	68.2	65.3	62.8	60.2	57.4	54.5	50.7	46.9	42.2
87.5°	2.5	2.5	2.7	2.9	2.9	2.9	3.0	3.2	3.2	3.2	3.3
85°	2.6	2.7	2.9	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.4
82.5°	2.9	3.2	3.1	3.2	3.4	3.5	3.4	3.4	3.3	3.2	3.5
80°	3.1	3.2	3.3	3.4	3.6	3.8	3.7	3.6	3.7	3.7	3.7
77.5°	3.4	3.4	3.6	3.7	3.7	3.8	3.9	3.9	4.1	4.1	4.0
75°	3.8	3.7	3.7	3.8	3.9	3.9	4.1	4.2	4.4	4.4	4.2
72.5°	3.8	3.9	3.9	3.9	4.1	4.2	4.4	4.5	4.6	4.7	4.5
70°	5.0	4.2	4.2	4.3	4.5	4.6	4.7	4.9	4.9	5.0	4.8
67.5°	7.1	5.9	5.1	4.8	4.9	5.0	5.1	5.3	5.4	5.3	5.1
65°	13.7	9.5	6.3	5.9	5.6	5.6	5.7	5.8	5.8	5.9	5.5
62.5°	20.1	14.8	10.9	8.0	6.9	7.1	6.3	6.8	6.5	6.6	6.2
60°	26.2	20.3	15.9	12.7	10.2	9.2	8.7	7.9	7.8	7.5	7.1
57.5°	25.7	24.9	22.4	18.1	15.5	13.1	11.8	10.6	9.4	9.0	8.1
55°	25.4	25.4	28.1	25.4	22.3	18.6	16.4	14.2	11.7	10.9	9.3
52.5°	29.6	30.2	32.4	33.9	31.6	25.9	23.6	18.2	16.2	12.9	11.2
50°	36.7	40.0	40.4	44.0	42.1	38.4	31.6	26.1	21.0	15.8	13.4
47.5°	55.6	58.7	55.6	58.5	55.7	52.7	44.5	35.4	26.2	20.6	15.6
45°	106.7	89.1	86.2	81.2	74.8	71.2	60.1	45.6	35.6	26.0	17.9
42.5°	177.9	153.0	138.7	108.8	105.6	93.0	78.5	62.0	45.7	31.8	21.9
40°	278.0	240.7	207.3	173.4	143.9	117.5	102.0	80.7	56.5	39.2	27.1
37.5°	375.1	330.8	292.4	242.0	192.7	157.5	127.8	100.6	70.4	49.6	32.5
35°	455.9	414.6	363.0	308.9	257.2	198.3	155.5	122.9	89.0	60.7	38.1
32.5°	522.2	480.4	421.3	366.6	308.5	239.1	189.2	146.7	108.0	72.2	43.9
30°	571.8	532.0	475.8	411.9	350.2	281.5	222.9	169.3	127.1	84.1	50.6
27.5°	623.2	584.9	528.6	457.9	386.2	318.0	250.7	190.7	146.4	96.4	59.4
25°	674.5	635.2	583.0	508.8	422.3	346.6	275.9	211.0	164.7	109.2	67.7
22.5°	719.3	681.6	637.3	562.6	463.0	374.3	299.5	233.0	177.1	121.0	75.5
20°	760.6	721.0	688.1	608.1	507.3	407.6	322.6	250.2	188.5	131.8	82.8
17.5°	819.5	756.1	714.7	643.1	549.0	441.8	346.5	266.4	199.1	141.6	89.6
15°	954.3	790.5	740.8	673.9	583.0	474.0	370.4	281.9	208.6	150.3	95.6
12.5°	1077.6	823.1	768.2	700.3	608.6	502.2	393.8	296.7	217.2	158.6	100.7
10°	1202.2	854.8	794.9	725.8	630.5	526.6	416.4	311.9	227.9	166.4	105.2
7.5°	1338.8	885.8	819.9	750.3	649.4	546.5	436.1	329.2	238.2	173.5	109.1
5°	1462.8	914.4	845.9	777.5	668.6	562.2	453.0	345.1	247.6	179.7	112.5
2.5°	1549.7	938.6	871.4	803.1	685.1	574.9	467.2	359.3	256.0	184.9	115.2
0°	1614.5	960.0	894.7	825.6	698.8	584.7	478.8	371.6	263.2	189.0	117.3
-2.5°	1611.8	978.0	913.8	847.3	724.1	599.0	486.3	378.0	270.8	194.8	121.6
-5°	1584.2	993.9	931.1	865.6	745.4	610.2	491.4	382.4	276.9	199.3	125.1
-7.5°	1550.1	1011.6	947.5	880.3	761.8	617.7	493.9	384.7	281.6	202.6	127.9
-10°	1494.0	1029.1	962.6	887.4	765.1	622.1	494.7	385.1	284.7	204.6	129.9
-12.5°	1424.6	1045.1	975.5	890.3	763.3	624.2	498.0	384.6	286.0	205.2	130.8
-15°	1332.4	1066.4	991.2	889.5	758.2	623.4	497.7	382.0	283.7	203.7	130.8
-17.5°	1202.3	1082.4	1006.2	886.5	750.4	619.8	493.5	376.3	279.7	199.9	129.5
-20°	1186.7	1097.2	1014.5	876.9	739.4	612.1	485.2	367.5	274.0	194.9	127.0



REPORT NUMBER: P731409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-2S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1197.5	1113.9	1010.5	860.8	726.0	600.7	473.3	355.8	266.6	188.6	123.7
-25°	1199.8	1129.9	1004.7	852.0	710.5	584.8	459.4	344.3	257.5	181.0	119.6
-27.5°	1198.9	1127.0	995.6	833.6	693.5	565.1	444.1	336.2	249.9	172.2	114.6
-30°	1196.1	1096.7	963.5	806.8	669.9	543.1	426.2	326.1	241.5	165.2	108.8
-32.5°	1179.5	1062.8	922.2	776.4	641.8	518.1	406.5	313.8	231.2	159.3	105.2
-35°	1136.2	1016.8	880.1	741.4	610.9	494.0	387.2	299.3	219.1	151.9	102.1
-37.5°	1088.8	959.7	837.3	703.2	577.0	467.1	369.2	283.6	205.2	143.0	98.5
-40°	1020.2	897.4	780.9	660.4	542.3	436.9	348.5	266.0	192.6	132.7	94.1
-42.5°	948.3	832.1	721.3	609.9	505.0	409.6	325.1	246.0	179.1	124.9	88.8
-45°	875.3	764.8	659.1	560.3	465.0	379.2	299.8	224.4	163.7	117.9	84.8
-47.5°	798.2	695.5	598.4	507.3	427.1	345.7	270.6	205.0	146.9	109.8	83.1
-50°	718.8	624.7	537.0	457.9	383.9	309.6	240.1	183.6	136.3	100.7	81.2
-52.5°	638.5	553.3	478.3	408.4	338.7	270.2	212.4	160.8	124.8	95.9	79.0
-55°	556.5	487.3	422.0	356.4	291.2	234.9	182.9	145.5	112.2	92.9	76.6
-57.5°	485.4	424.7	362.9	301.9	247.9	199.3	160.2	129.5	106.2	89.5	75.0
-60°	415.2	358.1	301.0	252.4	206.8	169.6	141.4	116.3	101.8	86.1	73.3
-62.5°	342.1	291.4	247.4	205.2	173.4	147.2	124.2	110.3	96.8	83.6	71.3
-65°	273.6	233.0	195.4	171.2	147.4	127.8	116.8	103.9	92.7	80.8	69.1
-67.5°	208.2	185.8	163.6	141.9	129.3	119.1	108.9	98.7	88.7	77.8	66.7
-70°	170.8	150.8	138.0	128.6	119.5	110.4	102.6	93.8	84.5	74.8	64.2
-72.5°	144.1	135.0	126.1	117.8	110.7	103.5	96.4	88.8	80.5	71.7	61.5
-75°	130.1	122.7	116.0	109.4	102.8	96.4	90.5	84.0	76.4	68.4	58.8
-77.5°	119.2	112.7	106.8	101.1	95.5	90.1	84.7	79.0	72.0	64.8	55.8
-80°	108.8	103.4	98.3	93.1	88.4	83.8	78.7	73.6	67.4	61.0	52.7
-82.5°	99.0	94.3	89.6	84.9	80.7	76.4	72.3	68.1	62.6	57.0	49.8
-85°	88.7	84.7	80.5	76.3	72.7	69.0	66.1	63.0	58.4	53.7	47.4
-87.5°	80.3	77.1	73.7	70.4	67.5	64.6	61.7	58.8	54.6	50.4	44.8
-90°	2.5	2.5	2.5	2.5	2.5	2.5	2.9	3.2	3.2	3.2	3.2



REPORT NUMBER: P731409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-2S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	37.4	31.0	24.7	17.4	10.1	6.6	3.2
87.5°	3.4	3.3	3.3	3.3	3.3	3.3	3.2
85°	3.5	3.5	3.4	3.4	3.4	3.4	3.2
82.5°	3.7	3.6	3.5	3.6	3.5	3.4	3.2
80°	3.8	3.7	3.6	3.7	3.6	3.5	3.2
77.5°	4.0	3.9	3.7	3.8	3.7	3.6	3.2
75°	4.2	4.1	3.9	3.9	3.8	3.7	3.2
72.5°	4.3	4.3	4.1	4.0	4.0	3.8	3.2
70°	4.6	4.5	4.3	4.2	4.1	3.8	3.2
67.5°	4.9	4.8	4.6	4.4	4.2	3.9	3.2
65°	5.3	5.1	4.8	4.5	4.3	4.0	3.2
62.5°	5.7	5.5	5.0	4.7	4.4	4.1	3.2
60°	6.2	5.8	5.2	4.9	4.6	4.2	3.2
57.5°	7.2	6.2	5.7	5.0	4.7	4.2	3.2
55°	8.4	6.6	6.1	5.2	4.9	4.3	3.2
52.5°	9.6	7.2	6.6	5.4	5.1	4.4	3.2
50°	11.0	8.5	7.1	5.5	5.4	4.5	3.2
47.5°	12.5	9.9	7.6	5.7	5.6	4.6	3.2
45°	14.5	11.3	8.2	6.2	5.8	4.6	3.2
42.5°	16.6	12.8	8.8	6.6	6.1	4.7	3.2
40°	18.8	14.3	9.7	7.2	6.4	4.8	3.2
37.5°	21.2	15.9	10.9	8.0	6.7	4.9	3.2
35°	23.6	17.7	12.1	8.8	7.0	4.9	3.2
32.5°	26.7	19.7	13.3	9.6	7.3	5.0	3.2
30°	31.4	21.6	14.5	10.4	7.6	5.1	3.2
27.5°	36.1	23.5	16.0	11.2	7.9	5.2	3.2
25°	40.7	25.4	17.6	12.1	8.3	5.2	3.2
22.5°	45.1	27.4	19.1	13.0	8.6	5.3	3.2
20°	49.5	29.4	20.5	13.8	8.9	5.3	3.2
17.5°	53.5	31.4	21.9	14.7	9.3	5.4	3.2
15°	57.0	33.3	23.2	15.6	9.6	5.5	3.2
12.5°	60.3	35.1	24.5	16.4	9.9	5.5	3.2
10°	63.2	36.8	25.7	17.3	10.3	5.6	3.2
7.5°	65.8	38.4	26.8	18.1	10.6	5.6	3.2
5°	68.1	39.9	27.9	18.9	10.9	5.6	3.2
2.5°	70.1	41.2	28.9	19.6	11.1	5.7	3.2
0°	71.7	42.5	29.8	20.3	11.4	5.7	3.2
-2.5°	74.0	44.3	31.1	21.2	12.0	5.9	3.2
-5°	75.9	45.9	32.3	22.0	12.6	6.2	3.2
-7.5°	77.5	47.4	33.5	22.8	13.1	6.4	3.2
-10°	78.6	48.8	34.5	23.5	13.6	6.6	3.2
-12.5°	79.4	50.0	35.5	24.2	14.1	6.9	3.2
-15°	79.8	51.0	36.3	24.8	14.6	7.1	3.2
-17.5°	79.8	51.9	37.1	25.4	15.0	7.3	3.2
-20°	79.5	52.6	37.8	25.9	15.4	7.5	3.2



REPORT NUMBER: P731409 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-2S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	78.9	53.1	38.3	26.3	15.7	7.6	3.2
-25°	77.8	53.6	38.7	26.7	16.1	7.8	3.2
-27.5°	76.3	53.9	39.1	27.0	16.3	7.9	3.2
-30°	74.2	54.1	39.3	27.2	16.5	8.1	3.2
-32.5°	71.7	54.1	39.6	27.4	16.7	8.2	3.2
-35°	70.7	53.9	39.8	27.5	16.8	8.3	3.2
-37.5°	70.3	53.7	39.9	27.6	16.9	8.4	3.2
-40°	69.7	53.7	39.9	27.5	17.0	8.4	3.2
-42.5°	68.8	53.5	39.8	27.5	16.9	8.5	3.2
-45°	67.7	53.2	39.8	27.5	16.9	8.5	3.2
-47.5°	66.4	52.8	39.7	27.4	16.8	8.6	3.2
-50°	65.5	52.3	39.5	27.3	16.6	8.6	3.2
-52.5°	64.6	51.6	39.1	27.1	16.4	8.5	3.2
-55°	63.5	50.9	38.7	26.8	16.2	8.5	3.2
-57.5°	62.2	50.1	38.1	26.4	15.9	8.5	3.2
-60°	60.8	49.1	37.5	26.0	15.6	8.4	3.2
-62.5°	59.3	47.9	36.7	25.5	15.3	8.3	3.2
-65°	57.6	46.7	35.9	24.9	15.0	8.2	3.2
-67.5°	55.8	45.3	35.0	24.3	14.7	8.1	3.2
-70°	53.7	43.8	33.9	23.5	14.3	8.0	3.2
-72.5°	51.7	42.2	32.8	22.9	13.9	7.9	3.2
-75°	49.5	40.5	31.6	22.3	13.4	7.7	3.2
-77.5°	47.2	38.7	30.5	21.6	12.9	7.6	3.2
-80°	44.8	37.1	29.5	20.9	12.4	7.4	3.2
-82.5°	43.0	35.7	28.4	20.1	11.9	7.2	3.2
-85°	41.2	34.2	27.2	19.2	11.3	7.1	3.2
-87.5°	39.3	32.7	26.0	18.3	10.7	6.9	3.2
-90°	3.2	3.2	3.2	3.2	3.2	3.2	3.2

(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

