

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: P731229 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-80-2S-HEG**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731229 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-57-80-2S-HEG
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 2S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

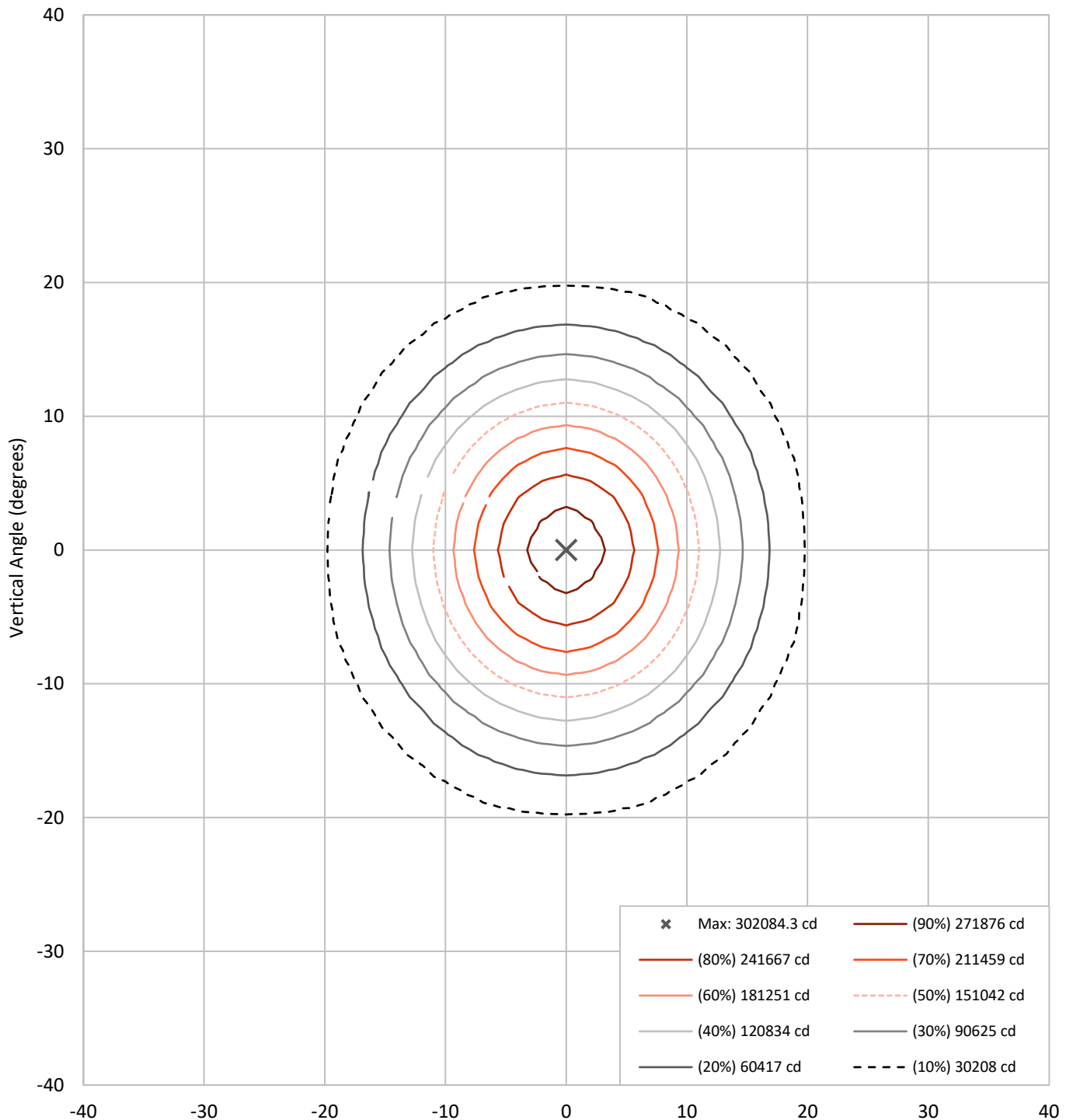
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	54414.9 lumens	Max Intensity:	302084.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	156.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	22°H x 22°V	Field Angle (10%):	39.6°H x 39.6°V
Beam Lumens:	24049.6 lumens	Field Lumens:	44665.8 lumens
Beam Efficiency:	44.2%	Field Efficiency:	82.1%

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





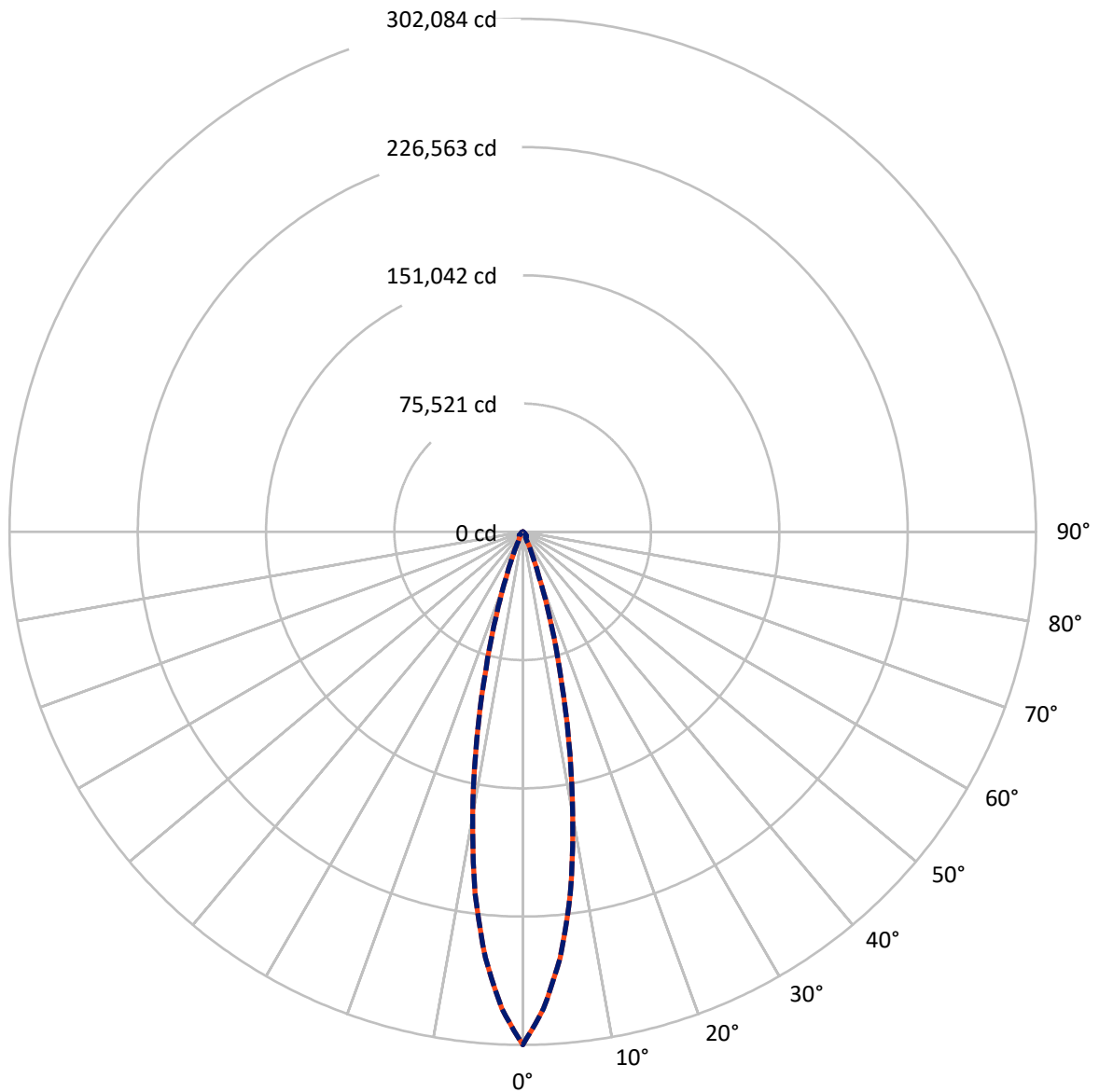
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Lumen Table

90	0.1		0.6		1.9		4.8		6.3		4.8		1.9		0.6		0.1	
80	0.1		0.6		1.9		4.8		6.3		4.8		1.9		0.6		0.1	
70	0.2	0.3	1.1	3.4	6.8	10.5	13.5	15.2	15.2	13.5	10.5	6.8	3.4	1.1	0.3	0.2		
60		0.9	4.0	9.7	16.7	23.3	27.7	30.0	30.0	27.7	23.3	16.7	9.7	4.0	0.9			
50	0.6	2.1	7.9	16.8	25.6	41.5	63.5	76.0	76.0	63.5	41.5	25.6	16.8	7.9	2.1	0.6		
40		3.6	11.8	22.1	48.9	84.0	98.4	103.4	103.4	98.4	84.0	48.9	22.1	11.8	3.6			
30	1.4	5.0	14.9	32.7	76.0	94.5	129.3	263.8	263.8	129.3	94.5	76.0	32.7	14.9	5.0	1.4		
20		6.1	16.6	47.1	83.5	121.7	769.6	2280.5	2280.5	769.6	121.7	83.5	47.1	16.6	6.1			
10	1.8	6.6	17.4	54.6	85.1	243.1	2222.6	6250.6	6250.6	2222.6	243.1	85.1	54.6	17.4	6.6	1.8		
0		6.6	17.4	54.6	85.1	243.1	2222.6	6250.6	6250.6	2222.6	243.1	85.1	54.6	17.4	6.6			
-10	1.4	6.1	16.6	47.1	83.5	121.7	769.6	2280.5	2280.5	769.6	121.7	83.5	47.1	16.6	6.1	1.4		
-20		5.0	14.9	32.7	76.0	94.5	129.3	263.8	263.8	129.3	94.5	76.0	32.7	14.9	5.0			
-30	0.6	3.6	11.8	22.1	48.9	84.0	98.4	103.4	103.4	98.4	84.0	48.9	22.1	11.8	3.6	0.6		
-40		2.1	7.9	16.8	25.6	41.5	63.5	76.0	76.0	63.5	41.5	25.6	16.8	7.9	2.1			
-50	0.2	0.9	4.0	9.7	16.7	23.3	27.7	30.0	30.0	27.7	23.3	16.7	9.7	4.0	0.9	0.2		
-60		0.3	1.1	3.4	6.8	10.5	13.5	15.2	15.2	13.5	10.5	6.8	3.4	1.1	0.3			
-70	0.1		0.6		1.9		4.8		6.3		4.8		1.9		0.6		0.1	
-80	0.1		0.6		1.9		4.8		6.3		4.8		1.9		0.6		0.1	
-90	0.1		0.6		1.9		4.8		6.3		4.8		1.9		0.6		0.1	

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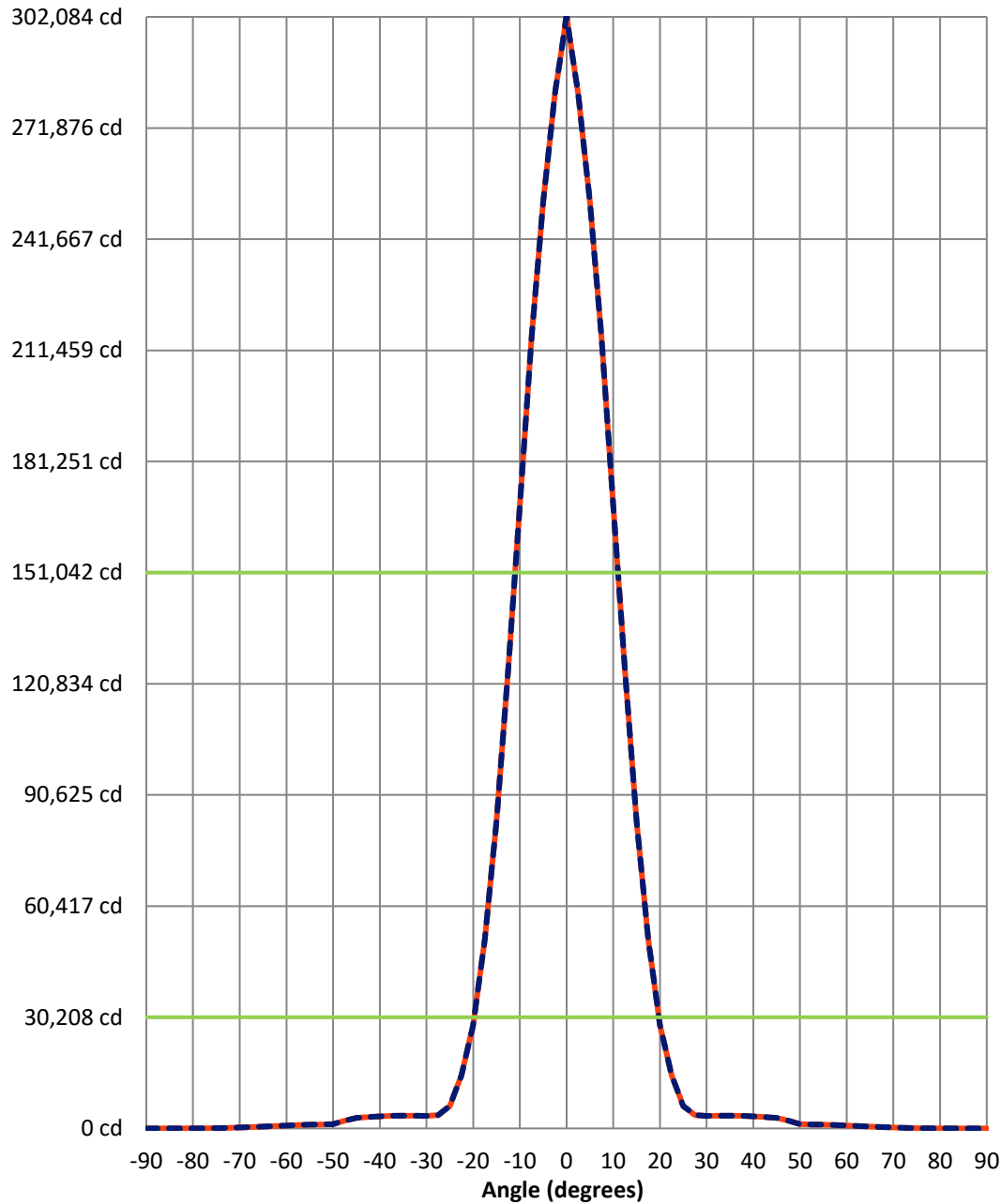
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 22°
 V Angle: 22°
 Lumens: 24049.6
 Efficiency: 44.2%

Field:
 H Angle: 39.6°
 V Angle: 39.6°
 Lumens: 44665.8
 Efficiency: 82.1%

Spill:
 Lumens: 9749.1
 Efficiency: 17.9%

— 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	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.4
85°	0.0	0.5	1.0	1.5	1.9	2.4	2.9	3.4	3.8	4.3	4.7
82.5°	0.0	0.7	1.5	2.2	2.9	3.6	4.3	5.0	5.7	6.0	6.4
80°	0.0	1.0	1.9	2.9	3.9	4.8	5.7	6.2	6.6	7.1	7.6
77.5°	0.0	1.2	2.4	3.6	4.8	5.8	6.4	7.0	7.6	8.2	8.9
75°	0.0	1.4	2.9	4.3	5.7	6.4	7.2	7.9	8.6	9.5	10.4
72.5°	0.0	1.7	3.4	5.0	6.2	7.0	7.9	8.8	9.8	10.9	11.9
70°	0.0	1.9	3.8	5.7	6.6	7.6	8.6	9.8	11.0	12.3	14.3
67.5°	0.0	2.1	4.3	6.0	7.1	8.2	9.5	10.9	12.3	14.6	17.0
65°	0.0	2.4	4.7	6.4	7.6	8.9	10.4	11.9	14.3	17.0	20.1
62.5°	0.0	2.6	5.2	6.7	8.0	9.6	11.3	13.5	16.4	19.6	24.5
60°	0.0	2.8	5.6	7.0	8.5	10.3	12.1	15.2	18.4	23.5	28.7
57.5°	0.0	3.0	5.8	7.4	9.0	11.0	13.5	16.9	21.5	27.2	39.7
55°	0.0	3.2	6.0	7.7	9.6	11.7	14.9	18.6	24.7	32.9	53.6
52.5°	0.0	3.4	6.2	8.0	10.1	12.4	16.3	21.3	27.9	45.1	67.2
50°	0.0	3.6	6.4	8.3	10.6	13.5	17.7	24.0	33.2	56.9	94.1
47.5°	0.0	3.8	6.6	8.6	11.1	14.6	19.1	26.6	43.3	68.3	121.8
45°	0.0	4.0	6.8	8.9	11.5	15.6	21.3	29.1	53.1	92.0	148.4
42.5°	0.0	4.1	7.0	9.3	12.0	16.6	23.3	34.9	62.5	115.0	179.5
40°	0.0	4.3	7.1	9.6	12.6	17.6	25.3	42.7	74.9	137.0	210.2
37.5°	0.0	4.4	7.3	9.9	13.3	18.5	27.2	50.1	93.5	159.5	239.4
35°	0.0	4.6	7.4	10.2	14.0	19.8	28.9	57.2	111.1	184.3	267.7
32.5°	0.0	4.7	7.6	10.5	14.6	21.1	31.8	63.8	127.6	207.7	295.3
30°	0.0	4.8	7.7	10.7	15.2	22.4	37.1	71.8	143.2	229.6	321.1
27.5°	0.0	5.0	7.8	10.9	15.8	23.6	42.0	84.3	158.9	250.0	345.2
25°	0.0	5.1	8.0	11.2	16.3	24.7	46.5	95.9	175.5	269.4	367.6
22.5°	0.0	5.2	8.1	11.4	16.8	25.7	50.7	106.4	190.6	287.5	392.8
20°	0.0	5.3	8.1	11.5	17.2	26.6	54.4	115.9	204.2	303.8	415.5
17.5°	0.0	5.3	8.2	11.7	17.6	27.4	57.7	124.3	216.4	318.4	435.7
15°	0.0	5.4	8.3	11.8	17.9	28.1	60.6	131.7	226.9	331.0	453.3
12.5°	0.0	5.5	8.4	11.9	18.2	28.7	63.0	137.9	235.9	341.8	468.4
10°	0.0	5.5	8.4	12.0	18.4	29.2	65.0	143.0	243.3	350.7	480.7
7.5°	0.0	5.6	8.5	12.1	18.6	29.6	66.6	147.0	249.1	357.6	490.3
5°	0.0	5.6	8.5	12.2	18.7	29.9	67.7	149.9	253.2	362.5	497.3
2.5°	0.0	5.6	8.5	12.2	18.8	30.0	68.4	151.6	255.7	365.5	501.4
0°	0.0	5.6	8.5	12.2	18.8	30.1	68.6	152.2	256.5	366.5	502.8
-2.5°	0.0	5.6	8.5	12.2	18.8	30.0	68.4	151.6	255.7	365.5	501.4
-5°	0.0	5.6	8.5	12.2	18.7	29.9	67.7	149.9	253.2	362.5	497.3
-7.5°	0.0	5.6	8.5	12.1	18.6	29.6	66.6	147.0	249.1	357.6	490.3
-10°	0.0	5.5	8.4	12.0	18.4	29.2	65.0	143.0	243.3	350.7	480.7
-12.5°	0.0	5.5	8.4	11.9	18.2	28.7	63.0	137.9	235.9	341.8	468.4
-15°	0.0	5.4	8.3	11.8	17.9	28.1	60.6	131.7	226.9	331.0	453.3
-17.5°	0.0	5.3	8.2	11.7	17.6	27.4	57.7	124.3	216.4	318.4	435.7
-20°	0.0	5.3	8.1	11.5	17.2	26.6	54.4	115.9	204.2	303.8	415.5



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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°	0.0	5.2	8.1	11.4	16.8	25.7	50.7	106.4	190.6	287.5	392.8
-25°	0.0	5.1	8.0	11.2	16.3	24.7	46.5	95.9	175.5	269.4	367.6
-27.5°	0.0	5.0	7.8	10.9	15.8	23.6	42.0	84.3	158.9	250.0	345.2
-30°	0.0	4.8	7.7	10.7	15.2	22.4	37.1	71.8	143.2	229.6	321.1
-32.5°	0.0	4.7	7.6	10.5	14.6	21.1	31.8	63.8	127.6	207.7	295.3
-35°	0.0	4.6	7.4	10.2	14.0	19.8	28.9	57.2	111.1	184.3	267.7
-37.5°	0.0	4.4	7.3	9.9	13.3	18.5	27.2	50.1	93.5	159.5	239.4
-40°	0.0	4.3	7.1	9.6	12.6	17.6	25.3	42.7	74.9	137.0	210.2
-42.5°	0.0	4.1	7.0	9.3	12.0	16.6	23.3	34.9	62.5	115.0	179.5
-45°	0.0	4.0	6.8	8.9	11.5	15.6	21.3	29.1	53.1	92.0	148.4
-47.5°	0.0	3.8	6.6	8.6	11.1	14.6	19.1	26.6	43.3	68.3	121.8
-50°	0.0	3.6	6.4	8.3	10.6	13.5	17.7	24.0	33.2	56.9	94.1
-52.5°	0.0	3.4	6.2	8.0	10.1	12.4	16.3	21.3	27.9	45.1	67.2
-55°	0.0	3.2	6.0	7.7	9.6	11.7	14.9	18.6	24.7	32.9	53.6
-57.5°	0.0	3.0	5.8	7.4	9.0	11.0	13.5	16.9	21.5	27.2	39.7
-60°	0.0	2.8	5.6	7.0	8.5	10.3	12.1	15.2	18.4	23.5	28.7
-62.5°	0.0	2.6	5.2	6.7	8.0	9.6	11.3	13.5	16.4	19.6	24.5
-65°	0.0	2.4	4.7	6.4	7.6	8.9	10.4	11.9	14.3	17.0	20.1
-67.5°	0.0	2.1	4.3	6.0	7.1	8.2	9.5	10.9	12.3	14.6	17.0
-70°	0.0	1.9	3.8	5.7	6.6	7.6	8.6	9.8	11.0	12.3	14.3
-72.5°	0.0	1.7	3.4	5.0	6.2	7.0	7.9	8.8	9.8	10.9	11.9
-75°	0.0	1.4	2.9	4.3	5.7	6.4	7.2	7.9	8.6	9.5	10.4
-77.5°	0.0	1.2	2.4	3.6	4.8	5.8	6.4	7.0	7.6	8.2	8.9
-80°	0.0	1.0	1.9	2.9	3.9	4.8	5.7	6.2	6.6	7.1	7.6
-82.5°	0.0	0.7	1.5	2.2	2.9	3.6	4.3	5.0	5.7	6.0	6.4
-85°	0.0	0.5	1.0	1.5	1.9	2.4	2.9	3.4	3.8	4.3	4.7
-87.5°	0.0	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.4
-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°	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.1	4.3	4.4
85°	5.2	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0	7.1	7.3
82.5°	6.7	7.0	7.4	7.7	8.0	8.3	8.6	8.9	9.3	9.6	9.9
80°	8.0	8.5	9.0	9.6	10.1	10.6	11.1	11.5	12.0	12.6	13.3
77.5°	9.6	10.3	11.0	11.7	12.4	13.5	14.6	15.6	16.6	17.6	18.5
75°	11.3	12.1	13.5	14.9	16.3	17.7	19.1	21.3	23.3	25.3	27.2
72.5°	13.5	15.2	16.9	18.6	21.3	24.0	26.6	29.1	34.9	42.7	50.1
70°	16.4	18.4	21.5	24.7	27.9	33.2	43.3	53.1	62.5	74.9	93.5
67.5°	19.6	23.5	27.2	32.9	45.1	56.9	68.3	92.0	115.0	137.0	159.5
65°	24.5	28.7	39.7	53.6	67.2	94.1	121.8	148.4	179.5	210.2	239.4
62.5°	29.2	43.2	58.8	80.6	112.9	144.4	180.4	217.2	252.5	288.0	322.0
60°	43.2	60.6	88.1	124.3	161.4	204.2	245.8	287.5	328.3	367.6	414.0
57.5°	58.8	88.1	128.1	171.0	218.6	265.5	313.0	359.0	412.1	464.9	515.9
55°	80.6	124.3	171.0	223.4	275.7	328.4	382.8	444.3	503.8	563.2	620.2
52.5°	112.9	161.4	218.6	275.7	333.6	395.7	463.8	531.0	597.5	660.9	719.8
50°	144.4	204.2	265.5	328.4	395.7	470.3	544.7	618.3	687.7	753.6	819.7
47.5°	180.4	245.8	313.0	382.8	463.8	544.7	625.2	701.2	774.0	849.3	922.3
45°	217.2	287.5	359.0	444.3	531.0	618.3	701.2	780.9	864.3	939.7	994.0
42.5°	252.5	328.3	412.1	503.8	597.5	687.7	774.0	864.3	945.0	1004.8	1039.5
40°	288.0	367.6	464.9	563.2	660.9	753.6	849.3	939.7	1004.8	1041.1	1059.1
37.5°	322.0	414.0	515.9	620.2	719.8	819.7	922.3	994.0	1039.5	1059.1	1127.4
35°	354.4	458.0	565.9	673.3	776.1	884.8	972.6	1034.7	1055.8	1121.1	1370.3
32.5°	389.4	499.6	613.3	722.6	833.2	940.9	1019.1	1049.3	1102.4	1263.7	1917.0
30°	424.9	540.2	657.3	769.1	887.4	981.8	1039.6	1071.7	1157.5	1753.8	2376.2
27.5°	458.0	578.2	697.2	815.0	935.0	1020.1	1051.8	1120.1	1485.7	2196.1	2778.4
25°	488.6	613.3	734.1	858.4	967.9	1037.5	1071.4	1165.3	1890.9	2549.2	2949.3
22.5°	517.1	645.4	767.9	898.2	998.1	1047.1	1110.1	1466.2	2235.6	2866.1	3054.1
20°	543.4	673.3	799.9	932.2	1025.5	1055.9	1145.4	1783.8	2514.1	2955.5	3140.1
17.5°	566.8	698.1	829.3	954.7	1035.8	1073.8	1214.6	2069.0	2764.7	3036.1	3213.1
15°	587.3	719.8	855.1	974.4	1042.1	1099.4	1446.1	2279.7	2898.5	3104.1	3277.4
12.5°	604.7	738.3	877.0	991.2	1047.5	1121.3	1644.5	2454.8	2955.1	3155.6	3323.0
10°	619.0	753.6	895.1	1005.0	1052.0	1139.3	1808.5	2599.8	3002.1	3198.3	3361.0
7.5°	630.2	765.5	909.2	1015.9	1055.5	1153.5	1937.2	2713.6	3039.0	3232.0	3390.9
5°	638.3	774.0	919.4	1023.7	1058.0	1163.6	2029.7	2795.6	3065.6	3256.3	3412.5
2.5°	643.1	779.2	925.5	1028.3	1059.5	1169.8	2085.5	2845.0	3081.6	3271.0	3425.6
0°	644.7	780.9	927.5	1029.9	1060.0	1171.8	2104.1	2861.5	3087.0	3275.9	3430.0
-2.5°	643.1	779.2	925.5	1028.3	1059.5	1169.8	2085.5	2845.0	3081.6	3271.0	3425.6
-5°	638.3	774.0	919.4	1023.7	1058.0	1163.6	2029.7	2795.6	3065.6	3256.3	3412.5
-7.5°	630.2	765.5	909.2	1015.9	1055.5	1153.5	1937.2	2713.6	3039.0	3232.0	3390.9
-10°	619.0	753.6	895.1	1005.0	1052.0	1139.3	1808.5	2599.8	3002.1	3198.3	3361.0
-12.5°	604.7	738.3	877.0	991.2	1047.5	1121.3	1644.5	2454.8	2955.1	3155.6	3323.0
-15°	587.3	719.8	855.1	974.4	1042.1	1099.4	1446.1	2279.7	2898.5	3104.1	3277.4
-17.5°	566.8	698.1	829.3	954.7	1035.8	1073.8	1214.6	2069.0	2764.7	3036.1	3213.1
-20°	543.4	673.3	799.9	932.2	1025.5	1055.9	1145.4	1783.8	2514.1	2955.5	3140.1



REPORT NUMBER: P731229 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	517.1	645.4	767.9	898.2	998.1	1047.1	1110.1	1466.2	2235.6	2866.1	3054.1
-25°	488.6	613.3	734.1	858.4	967.9	1037.5	1071.4	1165.3	1890.9	2549.2	2949.3
-27.5°	458.0	578.2	697.2	815.0	935.0	1020.1	1051.8	1120.1	1485.7	2196.1	2778.4
-30°	424.9	540.2	657.3	769.1	887.4	981.8	1039.6	1071.7	1157.5	1753.8	2376.2
-32.5°	389.4	499.6	613.3	722.6	833.2	940.9	1019.1	1049.3	1102.4	1263.7	1917.0
-35°	354.4	458.0	565.9	673.3	776.1	884.8	972.6	1034.7	1055.8	1121.1	1370.3
-37.5°	322.0	414.0	515.9	620.2	719.8	819.7	922.3	994.0	1039.5	1059.1	1127.4
-40°	288.0	367.6	464.9	563.2	660.9	753.6	849.3	939.7	1004.8	1041.1	1059.1
-42.5°	252.5	328.3	412.1	503.8	597.5	687.7	774.0	864.3	945.0	1004.8	1039.5
-45°	217.2	287.5	359.0	444.3	531.0	618.3	701.2	780.9	864.3	939.7	994.0
-47.5°	180.4	245.8	313.0	382.8	463.8	544.7	625.2	701.2	774.0	849.3	922.3
-50°	144.4	204.2	265.5	328.4	395.7	470.3	544.7	618.3	687.7	753.6	819.7
-52.5°	112.9	161.4	218.6	275.7	333.6	395.7	463.8	531.0	597.5	660.9	719.8
-55°	80.6	124.3	171.0	223.4	275.7	328.4	382.8	444.3	503.8	563.2	620.2
-57.5°	58.8	88.1	128.1	171.0	218.6	265.5	313.0	359.0	412.1	464.9	515.9
-60°	43.2	60.6	88.1	124.3	161.4	204.2	245.8	287.5	328.3	367.6	414.0
-62.5°	29.2	43.2	58.8	80.6	112.9	144.4	180.4	217.2	252.5	288.0	322.0
-65°	24.5	28.7	39.7	53.6	67.2	94.1	121.8	148.4	179.5	210.2	239.4
-67.5°	19.6	23.5	27.2	32.9	45.1	56.9	68.3	92.0	115.0	137.0	159.5
-70°	16.4	18.4	21.5	24.7	27.9	33.2	43.3	53.1	62.5	74.9	93.5
-72.5°	13.5	15.2	16.9	18.6	21.3	24.0	26.6	29.1	34.9	42.7	50.1
-75°	11.3	12.1	13.5	14.9	16.3	17.7	19.1	21.3	23.3	25.3	27.2
-77.5°	9.6	10.3	11.0	11.7	12.4	13.5	14.6	15.6	16.6	17.6	18.5
-80°	8.0	8.5	9.0	9.6	10.1	10.6	11.1	11.5	12.0	12.6	13.3
-82.5°	6.7	7.0	7.4	7.7	8.0	8.3	8.6	8.9	9.3	9.6	9.9
-85°	5.2	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0	7.1	7.3
-87.5°	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.1	4.3	4.4
-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: P731229 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	4.7	4.8	5.0	5.1	5.2	5.3	5.3	5.4	5.5	5.5
85°	7.4	7.6	7.7	7.8	8.0	8.1	8.1	8.2	8.3	8.4	8.4
82.5°	10.2	10.5	10.7	10.9	11.2	11.4	11.5	11.7	11.8	11.9	12.0
80°	14.0	14.6	15.2	15.8	16.3	16.8	17.2	17.6	17.9	18.2	18.4
77.5°	19.8	21.1	22.4	23.6	24.7	25.7	26.6	27.4	28.1	28.7	29.2
75°	28.9	31.8	37.1	42.0	46.5	50.7	54.4	57.7	60.6	63.0	65.0
72.5°	57.2	63.8	71.8	84.3	95.9	106.4	115.9	124.3	131.7	137.9	143.0
70°	111.1	127.6	143.2	158.9	175.5	190.6	204.2	216.4	226.9	235.9	243.3
67.5°	184.3	207.7	229.6	250.0	269.4	287.5	303.8	318.4	331.0	341.8	350.7
65°	267.7	295.3	321.1	345.2	367.6	392.8	415.5	435.7	453.3	468.4	480.7
62.5°	354.4	389.4	424.9	458.0	488.6	517.1	543.4	566.8	587.3	604.7	619.0
60°	458.0	499.6	540.2	578.2	613.3	645.4	673.3	698.1	719.8	738.3	753.6
57.5°	565.9	613.3	657.3	697.2	734.1	767.9	799.9	829.3	855.1	877.0	895.1
55°	673.3	722.6	769.1	815.0	858.4	898.2	932.2	954.7	974.4	991.2	1005.0
52.5°	776.1	833.2	887.4	935.0	967.9	998.1	1025.5	1035.8	1042.1	1047.5	1052.0
50°	884.8	940.9	981.8	1020.1	1037.5	1047.1	1055.9	1073.8	1099.4	1121.3	1139.3
47.5°	972.6	1019.1	1039.6	1051.8	1071.4	1110.1	1145.4	1214.6	1446.1	1644.5	1808.5
45°	1034.7	1049.3	1071.7	1120.1	1165.3	1466.2	1783.8	2069.0	2279.7	2454.8	2599.8
42.5°	1055.8	1102.4	1157.5	1485.7	1890.9	2235.6	2514.1	2764.7	2898.5	2955.1	3002.1
40°	1121.1	1263.7	1753.8	2196.1	2549.2	2866.1	2955.5	3036.1	3104.1	3155.6	3198.3
37.5°	1370.3	1917.0	2376.2	2778.4	2949.3	3054.1	3140.1	3213.1	3277.4	3323.0	3361.0
35°	1971.7	2467.3	2878.3	3006.0	3120.0	3214.1	3296.3	3360.6	3417.8	3437.5	3445.8
32.5°	2467.3	2892.3	3034.7	3157.0	3264.7	3349.0	3425.2	3443.0	3455.5	3460.4	3459.3
30°	2878.3	3034.7	3169.4	3287.6	3381.3	3437.9	3454.4	3460.0	3458.4	3452.3	3434.5
27.5°	3006.0	3157.0	3287.6	3392.2	3442.5	3460.9	3458.8	3451.2	3424.9	3401.9	3478.9
25°	3120.0	3264.7	3381.3	3442.5	3460.7	3458.2	3437.5	3406.0	3498.6	3598.8	4309.9
22.5°	3214.1	3349.0	3437.9	3460.9	3458.2	3432.9	3423.5	3558.9	4292.3	5523.2	7723.6
20°	3296.3	3425.2	3454.4	3458.8	3437.5	3423.5	3579.3	4774.2	6722.2	11311.7	15762.6
17.5°	3360.6	3443.0	3460.0	3451.2	3406.0	3558.9	4774.2	7599.5	13171.9	20555.6	27733.5
15°	3417.8	3455.5	3458.4	3424.9	3498.6	4292.3	6722.2	13171.9	22199.6	33431.7	47105.6
12.5°	3437.5	3460.4	3452.3	3401.9	3598.8	5523.2	11311.7	20555.6	33431.7	50426.7	71237.7
10°	3445.8	3459.3	3434.5	3478.9	4309.9	7723.6	15762.6	27733.5	47105.6	71237.7	97289.7
7.5°	3452.4	3458.4	3420.4	3540.8	5076.8	10616.6	21022.8	37527.9	61291.7	90516.9	125097.1
5°	3457.2	3457.8	3410.1	3585.9	5639.0	12749.4	24930.9	45105.8	73354.0	108259.2	148586.5
2.5°	3460.0	3457.4	3403.9	3613.5	5982.4	14057.9	27342.4	49820.3	80948.8	120379.3	163902.3
0°	3461.0	3457.3	3401.8	3622.7	6097.9	14499.1	28158.1	51422.1	83546.9	124691.2	169273.0
-2.5°	3460.0	3457.4	3403.9	3613.5	5982.4	14057.9	27342.4	49820.3	80948.8	120379.3	163902.3
-5°	3457.2	3457.8	3410.1	3585.9	5639.0	12749.4	24930.9	45105.8	73354.0	108259.2	148586.5
-7.5°	3452.4	3458.4	3420.4	3540.8	5076.8	10616.6	21022.8	37527.9	61291.7	90516.9	125097.1
-10°	3445.8	3459.3	3434.5	3478.9	4309.9	7723.6	15762.6	27733.5	47105.6	71237.7	97289.7
-12.5°	3437.5	3460.4	3452.3	3401.9	3598.8	5523.2	11311.7	20555.6	33431.7	50426.7	71237.7
-15°	3417.8	3455.5	3458.4	3424.9	3498.6	4292.3	6722.2	13171.9	22199.6	33431.7	47105.6
-17.5°	3360.6	3443.0	3460.0	3451.2	3406.0	3558.9	4774.2	7599.5	13171.9	20555.6	27733.5
-20°	3296.3	3425.2	3454.4	3458.8	3437.5	3423.5	3579.3	4774.2	6722.2	11311.7	15762.6



REPORT NUMBER: P731229 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3214.1	3349.0	3437.9	3460.9	3458.2	3432.9	3423.5	3558.9	4292.3	5523.2	7723.6
-25°	3120.0	3264.7	3381.3	3442.5	3460.7	3458.2	3437.5	3406.0	3498.6	3598.8	4309.9
-27.5°	3006.0	3157.0	3287.6	3392.2	3442.5	3460.9	3458.8	3451.2	3424.9	3401.9	3478.9
-30°	2878.3	3034.7	3169.4	3287.6	3381.3	3437.9	3454.4	3460.0	3458.4	3452.3	3434.5
-32.5°	2467.3	2892.3	3034.7	3157.0	3264.7	3349.0	3425.2	3443.0	3455.5	3460.4	3459.3
-35°	1971.7	2467.3	2878.3	3006.0	3120.0	3214.1	3296.3	3360.6	3417.8	3437.5	3445.8
-37.5°	1370.3	1917.0	2376.2	2778.4	2949.3	3054.1	3140.1	3213.1	3277.4	3323.0	3361.0
-40°	1121.1	1263.7	1753.8	2196.1	2549.2	2866.1	2955.5	3036.1	3104.1	3155.6	3198.3
-42.5°	1055.8	1102.4	1157.5	1485.7	1890.9	2235.6	2514.1	2764.7	2898.5	2955.1	3002.1
-45°	1034.7	1049.3	1071.7	1120.1	1165.3	1466.2	1783.8	2069.0	2279.7	2454.8	2599.8
-47.5°	972.6	1019.1	1039.6	1051.8	1071.4	1110.1	1145.4	1214.6	1446.1	1644.5	1808.5
-50°	884.8	940.9	981.8	1020.1	1037.5	1047.1	1055.9	1073.8	1099.4	1121.3	1139.3
-52.5°	776.1	833.2	887.4	935.0	967.9	998.1	1025.5	1035.8	1042.1	1047.5	1052.0
-55°	673.3	722.6	769.1	815.0	858.4	898.2	932.2	954.7	974.4	991.2	1005.0
-57.5°	565.9	613.3	657.3	697.2	734.1	767.9	799.9	829.3	855.1	877.0	895.1
-60°	458.0	499.6	540.2	578.2	613.3	645.4	673.3	698.1	719.8	738.3	753.6
-62.5°	354.4	389.4	424.9	458.0	488.6	517.1	543.4	566.8	587.3	604.7	619.0
-65°	267.7	295.3	321.1	345.2	367.6	392.8	415.5	435.7	453.3	468.4	480.7
-67.5°	184.3	207.7	229.6	250.0	269.4	287.5	303.8	318.4	331.0	341.8	350.7
-70°	111.1	127.6	143.2	158.9	175.5	190.6	204.2	216.4	226.9	235.9	243.3
-72.5°	57.2	63.8	71.8	84.3	95.9	106.4	115.9	124.3	131.7	137.9	143.0
-75°	28.9	31.8	37.1	42.0	46.5	50.7	54.4	57.7	60.6	63.0	65.0
-77.5°	19.8	21.1	22.4	23.6	24.7	25.7	26.6	27.4	28.1	28.7	29.2
-80°	14.0	14.6	15.2	15.8	16.3	16.8	17.2	17.6	17.9	18.2	18.4
-82.5°	10.2	10.5	10.7	10.9	11.2	11.4	11.5	11.7	11.8	11.9	12.0
-85°	7.4	7.6	7.7	7.8	8.0	8.1	8.1	8.2	8.3	8.4	8.4
-87.5°	4.6	4.7	4.8	5.0	5.1	5.2	5.3	5.3	5.4	5.5	5.5
-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: P731229 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.4	5.3
85°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.4	8.4	8.3	8.2
82.5°	12.1	12.2	12.2	12.2	12.2	12.2	12.1	12.0	11.9	11.8	11.7
80°	18.6	18.7	18.8	18.8	18.8	18.7	18.6	18.4	18.2	17.9	17.6
77.5°	29.6	29.9	30.0	30.1	30.0	29.9	29.6	29.2	28.7	28.1	27.4
75°	66.6	67.7	68.4	68.6	68.4	67.7	66.6	65.0	63.0	60.6	57.7
72.5°	147.0	149.9	151.6	152.2	151.6	149.9	147.0	143.0	137.9	131.7	124.3
70°	249.1	253.2	255.7	256.5	255.7	253.2	249.1	243.3	235.9	226.9	216.4
67.5°	357.6	362.5	365.5	366.5	365.5	362.5	357.6	350.7	341.8	331.0	318.4
65°	490.3	497.3	501.4	502.8	501.4	497.3	490.3	480.7	468.4	453.3	435.7
62.5°	630.2	638.3	643.1	644.7	643.1	638.3	630.2	619.0	604.7	587.3	566.8
60°	765.5	774.0	779.2	780.9	779.2	774.0	765.5	753.6	738.3	719.8	698.1
57.5°	909.2	919.4	925.5	927.5	925.5	919.4	909.2	895.1	877.0	855.1	829.3
55°	1015.9	1023.7	1028.3	1029.9	1028.3	1023.7	1015.9	1005.0	991.2	974.4	954.7
52.5°	1055.5	1058.0	1059.5	1060.0	1059.5	1058.0	1055.5	1052.0	1047.5	1042.1	1035.8
50°	1153.5	1163.6	1169.8	1171.8	1169.8	1163.6	1153.5	1139.3	1121.3	1099.4	1073.8
47.5°	1937.2	2029.7	2085.5	2104.1	2085.5	2029.7	1937.2	1808.5	1644.5	1446.1	1214.6
45°	2713.6	2795.6	2845.0	2861.5	2845.0	2795.6	2713.6	2599.8	2454.8	2279.7	2069.0
42.5°	3039.0	3065.6	3081.6	3087.0	3081.6	3065.6	3039.0	3002.1	2955.1	2898.5	2764.7
40°	3232.0	3256.3	3271.0	3275.9	3271.0	3256.3	3232.0	3198.3	3155.6	3104.1	3036.1
37.5°	3390.9	3412.5	3425.6	3430.0	3425.6	3412.5	3390.9	3361.0	3323.0	3277.4	3213.1
35°	3452.4	3457.2	3460.0	3461.0	3460.0	3457.2	3452.4	3445.8	3437.5	3417.8	3360.6
32.5°	3458.4	3457.8	3457.4	3457.3	3457.4	3457.8	3458.4	3459.3	3460.4	3455.5	3443.0
30°	3420.4	3410.1	3403.9	3401.8	3403.9	3410.1	3420.4	3434.5	3452.3	3458.4	3460.0
27.5°	3540.8	3585.9	3613.5	3622.7	3613.5	3585.9	3540.8	3478.9	3401.9	3424.9	3451.2
25°	5076.8	5639.0	5982.4	6097.9	5982.4	5639.0	5076.8	4309.9	3598.8	3498.6	3406.0
22.5°	10616.6	12749.4	14057.9	14499.1	14057.9	12749.4	10616.6	7723.6	5523.2	4292.3	3558.9
20°	21022.8	24930.9	27342.4	28158.1	27342.4	24930.9	21022.8	15762.6	11311.7	6722.2	4774.2
17.5°	37527.9	45105.8	49820.3	51422.1	49820.3	45105.8	37527.9	27733.5	20555.6	13171.9	7599.5
15°	61291.7	73354.0	80948.8	83546.9	80948.8	73354.0	61291.7	47105.6	33431.7	22199.6	13171.9
12.5°	90516.9	108259.2	120379.3	124691.2	120379.3	108259.2	90516.9	71237.7	50426.7	33431.7	20555.6
10°	125097.1	148586.5	163902.3	169273.0	163902.3	148586.5	125097.1	97289.7	71237.7	47105.6	27733.5
7.5°	158847.9	186735.0	207305.1	214749.9	207305.1	186735.0	158847.9	125097.1	90516.9	61291.7	37527.9
5°	186735.0	222748.1	244829.6	251809.6	244829.6	222748.1	186735.0	148586.5	108259.2	73354.0	45105.8
2.5°	207305.1	244829.6	268699.4	281076.2	268699.4	244829.6	207305.1	163902.3	120379.3	80948.8	49820.3
0°	214749.9	251809.6	281076.2	302084.3	281076.2	251809.6	214749.9	169273.0	124691.2	83546.9	51422.1
-2.5°	207305.1	244829.6	268699.4	281076.2	268699.4	244829.6	207305.1	163902.3	120379.3	80948.8	49820.3
-5°	186735.0	222748.1	244829.6	251809.6	244829.6	222748.1	186735.0	148586.5	108259.2	73354.0	45105.8
-7.5°	158847.9	186735.0	207305.1	214749.9	207305.1	186735.0	158847.9	125097.1	90516.9	61291.7	37527.9
-10°	125097.1	148586.5	163902.3	169273.0	163902.3	148586.5	125097.1	97289.7	71237.7	47105.6	27733.5
-12.5°	90516.9	108259.2	120379.3	124691.2	120379.3	108259.2	90516.9	71237.7	50426.7	33431.7	20555.6
-15°	61291.7	73354.0	80948.8	83546.9	80948.8	73354.0	61291.7	47105.6	33431.7	22199.6	13171.9
-17.5°	37527.9	45105.8	49820.3	51422.1	49820.3	45105.8	37527.9	27733.5	20555.6	13171.9	7599.5
-20°	21022.8	24930.9	27342.4	28158.1	27342.4	24930.9	21022.8	15762.6	11311.7	6722.2	4774.2



REPORT NUMBER: P731229 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	10616.6	12749.4	14057.9	14499.1	14057.9	12749.4	10616.6	7723.6	5523.2	4292.3	3558.9
-25°	5076.8	5639.0	5982.4	6097.9	5982.4	5639.0	5076.8	4309.9	3598.8	3498.6	3406.0
-27.5°	3540.8	3585.9	3613.5	3622.7	3613.5	3585.9	3540.8	3478.9	3401.9	3424.9	3451.2
-30°	3420.4	3410.1	3403.9	3401.8	3403.9	3410.1	3420.4	3434.5	3452.3	3458.4	3460.0
-32.5°	3458.4	3457.8	3457.4	3457.3	3457.4	3457.8	3458.4	3459.3	3460.4	3455.5	3443.0
-35°	3452.4	3457.2	3460.0	3461.0	3460.0	3457.2	3452.4	3445.8	3437.5	3417.8	3360.6
-37.5°	3390.9	3412.5	3425.6	3430.0	3425.6	3412.5	3390.9	3361.0	3323.0	3277.4	3213.1
-40°	3232.0	3256.3	3271.0	3275.9	3271.0	3256.3	3232.0	3198.3	3155.6	3104.1	3036.1
-42.5°	3039.0	3065.6	3081.6	3087.0	3081.6	3065.6	3039.0	3002.1	2955.1	2898.5	2764.7
-45°	2713.6	2795.6	2845.0	2861.5	2845.0	2795.6	2713.6	2599.8	2454.8	2279.7	2069.0
-47.5°	1937.2	2029.7	2085.5	2104.1	2085.5	2029.7	1937.2	1808.5	1644.5	1446.1	1214.6
-50°	1153.5	1163.6	1169.8	1171.8	1169.8	1163.6	1153.5	1139.3	1121.3	1099.4	1073.8
-52.5°	1055.5	1058.0	1059.5	1060.0	1059.5	1058.0	1055.5	1052.0	1047.5	1042.1	1035.8
-55°	1015.9	1023.7	1028.3	1029.9	1028.3	1023.7	1015.9	1005.0	991.2	974.4	954.7
-57.5°	909.2	919.4	925.5	927.5	925.5	919.4	909.2	895.1	877.0	855.1	829.3
-60°	765.5	774.0	779.2	780.9	779.2	774.0	765.5	753.6	738.3	719.8	698.1
-62.5°	630.2	638.3	643.1	644.7	643.1	638.3	630.2	619.0	604.7	587.3	566.8
-65°	490.3	497.3	501.4	502.8	501.4	497.3	490.3	480.7	468.4	453.3	435.7
-67.5°	357.6	362.5	365.5	366.5	365.5	362.5	357.6	350.7	341.8	331.0	318.4
-70°	249.1	253.2	255.7	256.5	255.7	253.2	249.1	243.3	235.9	226.9	216.4
-72.5°	147.0	149.9	151.6	152.2	151.6	149.9	147.0	143.0	137.9	131.7	124.3
-75°	66.6	67.7	68.4	68.6	68.4	67.7	66.6	65.0	63.0	60.6	57.7
-77.5°	29.6	29.9	30.0	30.1	30.0	29.9	29.6	29.2	28.7	28.1	27.4
-80°	18.6	18.7	18.8	18.8	18.8	18.7	18.6	18.4	18.2	17.9	17.6
-82.5°	12.1	12.2	12.2	12.2	12.2	12.2	12.1	12.0	11.9	11.8	11.7
-85°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.4	8.4	8.3	8.2
-87.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.4	5.3
-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°	5.3	5.2	5.1	5.0	4.8	4.7	4.6	4.4	4.3	4.1	4.0
85°	8.1	8.1	8.0	7.8	7.7	7.6	7.4	7.3	7.1	7.0	6.8
82.5°	11.5	11.4	11.2	10.9	10.7	10.5	10.2	9.9	9.6	9.3	8.9
80°	17.2	16.8	16.3	15.8	15.2	14.6	14.0	13.3	12.6	12.0	11.5
77.5°	26.6	25.7	24.7	23.6	22.4	21.1	19.8	18.5	17.6	16.6	15.6
75°	54.4	50.7	46.5	42.0	37.1	31.8	28.9	27.2	25.3	23.3	21.3
72.5°	115.9	106.4	95.9	84.3	71.8	63.8	57.2	50.1	42.7	34.9	29.1
70°	204.2	190.6	175.5	158.9	143.2	127.6	111.1	93.5	74.9	62.5	53.1
67.5°	303.8	287.5	269.4	250.0	229.6	207.7	184.3	159.5	137.0	115.0	92.0
65°	415.5	392.8	367.6	345.2	321.1	295.3	267.7	239.4	210.2	179.5	148.4
62.5°	543.4	517.1	488.6	458.0	424.9	389.4	354.4	322.0	288.0	252.5	217.2
60°	673.3	645.4	613.3	578.2	540.2	499.6	458.0	414.0	367.6	328.3	287.5
57.5°	799.9	767.9	734.1	697.2	657.3	613.3	565.9	515.9	464.9	412.1	359.0
55°	932.2	898.2	858.4	815.0	769.1	722.6	673.3	620.2	563.2	503.8	444.3
52.5°	1025.5	998.1	967.9	935.0	887.4	833.2	776.1	719.8	660.9	597.5	531.0
50°	1055.9	1047.1	1037.5	1020.1	981.8	940.9	884.8	819.7	753.6	687.7	618.3
47.5°	1145.4	1110.1	1071.4	1051.8	1039.6	1019.1	972.6	922.3	849.3	774.0	701.2
45°	1783.8	1466.2	1165.3	1120.1	1071.7	1049.3	1034.7	994.0	939.7	864.3	780.9
42.5°	2514.1	2235.6	1890.9	1485.7	1157.5	1102.4	1055.8	1039.5	1004.8	945.0	864.3
40°	2955.5	2866.1	2549.2	2196.1	1753.8	1263.7	1121.1	1059.1	1041.1	1004.8	939.7
37.5°	3140.1	3054.1	2949.3	2778.4	2376.2	1917.0	1370.3	1127.4	1059.1	1039.5	994.0
35°	3296.3	3214.1	3120.0	3006.0	2878.3	2467.3	1971.7	1370.3	1121.1	1055.8	1034.7
32.5°	3425.2	3349.0	3264.7	3157.0	3034.7	2892.3	2467.3	1917.0	1263.7	1102.4	1049.3
30°	3454.4	3437.9	3381.3	3287.6	3169.4	3034.7	2878.3	2376.2	1753.8	1157.5	1071.7
27.5°	3458.8	3460.9	3442.5	3392.2	3287.6	3157.0	3006.0	2778.4	2196.1	1485.7	1120.1
25°	3437.5	3458.2	3460.7	3442.5	3381.3	3264.7	3120.0	2949.3	2549.2	1890.9	1165.3
22.5°	3423.5	3432.9	3458.2	3460.9	3437.9	3349.0	3214.1	3054.1	2866.1	2235.6	1466.2
20°	3579.3	3423.5	3437.5	3458.8	3454.4	3425.2	3296.3	3140.1	2955.5	2514.1	1783.8
17.5°	4774.2	3558.9	3406.0	3451.2	3460.0	3443.0	3360.6	3213.1	3036.1	2764.7	2069.0
15°	6722.2	4292.3	3498.6	3424.9	3458.4	3455.5	3417.8	3277.4	3104.1	2898.5	2279.7
12.5°	11311.7	5523.2	3598.8	3401.9	3452.3	3460.4	3437.5	3323.0	3155.6	2955.1	2454.8
10°	15762.6	7723.6	4309.9	3478.9	3434.5	3459.3	3445.8	3361.0	3198.3	3002.1	2599.8
7.5°	21022.8	10616.6	5076.8	3540.8	3420.4	3458.4	3452.4	3390.9	3232.0	3039.0	2713.6
5°	24930.9	12749.4	5639.0	3585.9	3410.1	3457.8	3457.2	3412.5	3256.3	3065.6	2795.6
2.5°	27342.4	14057.9	5982.4	3613.5	3403.9	3457.4	3460.0	3425.6	3271.0	3081.6	2845.0
0°	28158.1	14499.1	6097.9	3622.7	3401.8	3457.3	3461.0	3430.0	3275.9	3087.0	2861.5
-2.5°	27342.4	14057.9	5982.4	3613.5	3403.9	3457.4	3460.0	3425.6	3271.0	3081.6	2845.0
-5°	24930.9	12749.4	5639.0	3585.9	3410.1	3457.8	3457.2	3412.5	3256.3	3065.6	2795.6
-7.5°	21022.8	10616.6	5076.8	3540.8	3420.4	3458.4	3452.4	3390.9	3232.0	3039.0	2713.6
-10°	15762.6	7723.6	4309.9	3478.9	3434.5	3459.3	3445.8	3361.0	3198.3	3002.1	2599.8
-12.5°	11311.7	5523.2	3598.8	3401.9	3452.3	3460.4	3437.5	3323.0	3155.6	2955.1	2454.8
-15°	6722.2	4292.3	3498.6	3424.9	3458.4	3455.5	3417.8	3277.4	3104.1	2898.5	2279.7
-17.5°	4774.2	3558.9	3406.0	3451.2	3460.0	3443.0	3360.6	3213.1	3036.1	2764.7	2069.0
-20°	3579.3	3423.5	3437.5	3458.8	3454.4	3425.2	3296.3	3140.1	2955.5	2514.1	1783.8



REPORT NUMBER: P731229 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	3423.5	3432.9	3458.2	3460.9	3437.9	3349.0	3214.1	3054.1	2866.1	2235.6	1466.2
-25°	3437.5	3458.2	3460.7	3442.5	3381.3	3264.7	3120.0	2949.3	2549.2	1890.9	1165.3
-27.5°	3458.8	3460.9	3442.5	3392.2	3287.6	3157.0	3006.0	2778.4	2196.1	1485.7	1120.1
-30°	3454.4	3437.9	3381.3	3287.6	3169.4	3034.7	2878.3	2376.2	1753.8	1157.5	1071.7
-32.5°	3425.2	3349.0	3264.7	3157.0	3034.7	2892.3	2467.3	1917.0	1263.7	1102.4	1049.3
-35°	3296.3	3214.1	3120.0	3006.0	2878.3	2467.3	1971.7	1370.3	1121.1	1055.8	1034.7
-37.5°	3140.1	3054.1	2949.3	2778.4	2376.2	1917.0	1370.3	1127.4	1059.1	1039.5	994.0
-40°	2955.5	2866.1	2549.2	2196.1	1753.8	1263.7	1121.1	1059.1	1041.1	1004.8	939.7
-42.5°	2514.1	2235.6	1890.9	1485.7	1157.5	1102.4	1055.8	1039.5	1004.8	945.0	864.3
-45°	1783.8	1466.2	1165.3	1120.1	1071.7	1049.3	1034.7	994.0	939.7	864.3	780.9
-47.5°	1145.4	1110.1	1071.4	1051.8	1039.6	1019.1	972.6	922.3	849.3	774.0	701.2
-50°	1055.9	1047.1	1037.5	1020.1	981.8	940.9	884.8	819.7	753.6	687.7	618.3
-52.5°	1025.5	998.1	967.9	935.0	887.4	833.2	776.1	719.8	660.9	597.5	531.0
-55°	932.2	898.2	858.4	815.0	769.1	722.6	673.3	620.2	563.2	503.8	444.3
-57.5°	799.9	767.9	734.1	697.2	657.3	613.3	565.9	515.9	464.9	412.1	359.0
-60°	673.3	645.4	613.3	578.2	540.2	499.6	458.0	414.0	367.6	328.3	287.5
-62.5°	543.4	517.1	488.6	458.0	424.9	389.4	354.4	322.0	288.0	252.5	217.2
-65°	415.5	392.8	367.6	345.2	321.1	295.3	267.7	239.4	210.2	179.5	148.4
-67.5°	303.8	287.5	269.4	250.0	229.6	207.7	184.3	159.5	137.0	115.0	92.0
-70°	204.2	190.6	175.5	158.9	143.2	127.6	111.1	93.5	74.9	62.5	53.1
-72.5°	115.9	106.4	95.9	84.3	71.8	63.8	57.2	50.1	42.7	34.9	29.1
-75°	54.4	50.7	46.5	42.0	37.1	31.8	28.9	27.2	25.3	23.3	21.3
-77.5°	26.6	25.7	24.7	23.6	22.4	21.1	19.8	18.5	17.6	16.6	15.6
-80°	17.2	16.8	16.3	15.8	15.2	14.6	14.0	13.3	12.6	12.0	11.5
-82.5°	11.5	11.4	11.2	10.9	10.7	10.5	10.2	9.9	9.6	9.3	8.9
-85°	8.1	8.1	8.0	7.8	7.7	7.6	7.4	7.3	7.1	7.0	6.8
-87.5°	5.3	5.2	5.1	5.0	4.8	4.7	4.6	4.4	4.3	4.1	4.0
-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: P731229 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	3.6	3.4	3.2	3.0	2.8	2.6	2.4	2.1	1.9	1.7
85°	6.6	6.4	6.2	6.0	5.8	5.6	5.2	4.7	4.3	3.8	3.4
82.5°	8.6	8.3	8.0	7.7	7.4	7.0	6.7	6.4	6.0	5.7	5.0
80°	11.1	10.6	10.1	9.6	9.0	8.5	8.0	7.6	7.1	6.6	6.2
77.5°	14.6	13.5	12.4	11.7	11.0	10.3	9.6	8.9	8.2	7.6	7.0
75°	19.1	17.7	16.3	14.9	13.5	12.1	11.3	10.4	9.5	8.6	7.9
72.5°	26.6	24.0	21.3	18.6	16.9	15.2	13.5	11.9	10.9	9.8	8.8
70°	43.3	33.2	27.9	24.7	21.5	18.4	16.4	14.3	12.3	11.0	9.8
67.5°	68.3	56.9	45.1	32.9	27.2	23.5	19.6	17.0	14.6	12.3	10.9
65°	121.8	94.1	67.2	53.6	39.7	28.7	24.5	20.1	17.0	14.3	11.9
62.5°	180.4	144.4	112.9	80.6	58.8	43.2	29.2	24.5	19.6	16.4	13.5
60°	245.8	204.2	161.4	124.3	88.1	60.6	43.2	28.7	23.5	18.4	15.2
57.5°	313.0	265.5	218.6	171.0	128.1	88.1	58.8	39.7	27.2	21.5	16.9
55°	382.8	328.4	275.7	223.4	171.0	124.3	80.6	53.6	32.9	24.7	18.6
52.5°	463.8	395.7	333.6	275.7	218.6	161.4	112.9	67.2	45.1	27.9	21.3
50°	544.7	470.3	395.7	328.4	265.5	204.2	144.4	94.1	56.9	33.2	24.0
47.5°	625.2	544.7	463.8	382.8	313.0	245.8	180.4	121.8	68.3	43.3	26.6
45°	701.2	618.3	531.0	444.3	359.0	287.5	217.2	148.4	92.0	53.1	29.1
42.5°	774.0	687.7	597.5	503.8	412.1	328.3	252.5	179.5	115.0	62.5	34.9
40°	849.3	753.6	660.9	563.2	464.9	367.6	288.0	210.2	137.0	74.9	42.7
37.5°	922.3	819.7	719.8	620.2	515.9	414.0	322.0	239.4	159.5	93.5	50.1
35°	972.6	884.8	776.1	673.3	565.9	458.0	354.4	267.7	184.3	111.1	57.2
32.5°	1019.1	940.9	833.2	722.6	613.3	499.6	389.4	295.3	207.7	127.6	63.8
30°	1039.6	981.8	887.4	769.1	657.3	540.2	424.9	321.1	229.6	143.2	71.8
27.5°	1051.8	1020.1	935.0	815.0	697.2	578.2	458.0	345.2	250.0	158.9	84.3
25°	1071.4	1037.5	967.9	858.4	734.1	613.3	488.6	367.6	269.4	175.5	95.9
22.5°	1110.1	1047.1	998.1	898.2	767.9	645.4	517.1	392.8	287.5	190.6	106.4
20°	1145.4	1055.9	1025.5	932.2	799.9	673.3	543.4	415.5	303.8	204.2	115.9
17.5°	1214.6	1073.8	1035.8	954.7	829.3	698.1	566.8	435.7	318.4	216.4	124.3
15°	1446.1	1099.4	1042.1	974.4	855.1	719.8	587.3	453.3	331.0	226.9	131.7
12.5°	1644.5	1121.3	1047.5	991.2	877.0	738.3	604.7	468.4	341.8	235.9	137.9
10°	1808.5	1139.3	1052.0	1005.0	895.1	753.6	619.0	480.7	350.7	243.3	143.0
7.5°	1937.2	1153.5	1055.5	1015.9	909.2	765.5	630.2	490.3	357.6	249.1	147.0
5°	2029.7	1163.6	1058.0	1023.7	919.4	774.0	638.3	497.3	362.5	253.2	149.9
2.5°	2085.5	1169.8	1059.5	1028.3	925.5	779.2	643.1	501.4	365.5	255.7	151.6
0°	2104.1	1171.8	1060.0	1029.9	927.5	780.9	644.7	502.8	366.5	256.5	152.2
-2.5°	2085.5	1169.8	1059.5	1028.3	925.5	779.2	643.1	501.4	365.5	255.7	151.6
-5°	2029.7	1163.6	1058.0	1023.7	919.4	774.0	638.3	497.3	362.5	253.2	149.9
-7.5°	1937.2	1153.5	1055.5	1015.9	909.2	765.5	630.2	490.3	357.6	249.1	147.0
-10°	1808.5	1139.3	1052.0	1005.0	895.1	753.6	619.0	480.7	350.7	243.3	143.0
-12.5°	1644.5	1121.3	1047.5	991.2	877.0	738.3	604.7	468.4	341.8	235.9	137.9
-15°	1446.1	1099.4	1042.1	974.4	855.1	719.8	587.3	453.3	331.0	226.9	131.7
-17.5°	1214.6	1073.8	1035.8	954.7	829.3	698.1	566.8	435.7	318.4	216.4	124.3
-20°	1145.4	1055.9	1025.5	932.2	799.9	673.3	543.4	415.5	303.8	204.2	115.9



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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°	1110.1	1047.1	998.1	898.2	767.9	645.4	517.1	392.8	287.5	190.6	106.4
-25°	1071.4	1037.5	967.9	858.4	734.1	613.3	488.6	367.6	269.4	175.5	95.9
-27.5°	1051.8	1020.1	935.0	815.0	697.2	578.2	458.0	345.2	250.0	158.9	84.3
-30°	1039.6	981.8	887.4	769.1	657.3	540.2	424.9	321.1	229.6	143.2	71.8
-32.5°	1019.1	940.9	833.2	722.6	613.3	499.6	389.4	295.3	207.7	127.6	63.8
-35°	972.6	884.8	776.1	673.3	565.9	458.0	354.4	267.7	184.3	111.1	57.2
-37.5°	922.3	819.7	719.8	620.2	515.9	414.0	322.0	239.4	159.5	93.5	50.1
-40°	849.3	753.6	660.9	563.2	464.9	367.6	288.0	210.2	137.0	74.9	42.7
-42.5°	774.0	687.7	597.5	503.8	412.1	328.3	252.5	179.5	115.0	62.5	34.9
-45°	701.2	618.3	531.0	444.3	359.0	287.5	217.2	148.4	92.0	53.1	29.1
-47.5°	625.2	544.7	463.8	382.8	313.0	245.8	180.4	121.8	68.3	43.3	26.6
-50°	544.7	470.3	395.7	328.4	265.5	204.2	144.4	94.1	56.9	33.2	24.0
-52.5°	463.8	395.7	333.6	275.7	218.6	161.4	112.9	67.2	45.1	27.9	21.3
-55°	382.8	328.4	275.7	223.4	171.0	124.3	80.6	53.6	32.9	24.7	18.6
-57.5°	313.0	265.5	218.6	171.0	128.1	88.1	58.8	39.7	27.2	21.5	16.9
-60°	245.8	204.2	161.4	124.3	88.1	60.6	43.2	28.7	23.5	18.4	15.2
-62.5°	180.4	144.4	112.9	80.6	58.8	43.2	29.2	24.5	19.6	16.4	13.5
-65°	121.8	94.1	67.2	53.6	39.7	28.7	24.5	20.1	17.0	14.3	11.9
-67.5°	68.3	56.9	45.1	32.9	27.2	23.5	19.6	17.0	14.6	12.3	10.9
-70°	43.3	33.2	27.9	24.7	21.5	18.4	16.4	14.3	12.3	11.0	9.8
-72.5°	26.6	24.0	21.3	18.6	16.9	15.2	13.5	11.9	10.9	9.8	8.8
-75°	19.1	17.7	16.3	14.9	13.5	12.1	11.3	10.4	9.5	8.6	7.9
-77.5°	14.6	13.5	12.4	11.7	11.0	10.3	9.6	8.9	8.2	7.6	7.0
-80°	11.1	10.6	10.1	9.6	9.0	8.5	8.0	7.6	7.1	6.6	6.2
-82.5°	8.6	8.3	8.0	7.7	7.4	7.0	6.7	6.4	6.0	5.7	5.0
-85°	6.6	6.4	6.2	6.0	5.8	5.6	5.2	4.7	4.3	3.8	3.4
-87.5°	3.8	3.6	3.4	3.2	3.0	2.8	2.6	2.4	2.1	1.9	1.7
-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):

	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°	1.4	1.2	1.0	0.7	0.5	0.2	0.0
85°	2.9	2.4	1.9	1.5	1.0	0.5	0.0
82.5°	4.3	3.6	2.9	2.2	1.5	0.7	0.0
80°	5.7	4.8	3.9	2.9	1.9	1.0	0.0
77.5°	6.4	5.8	4.8	3.6	2.4	1.2	0.0
75°	7.2	6.4	5.7	4.3	2.9	1.4	0.0
72.5°	7.9	7.0	6.2	5.0	3.4	1.7	0.0
70°	8.6	7.6	6.6	5.7	3.8	1.9	0.0
67.5°	9.5	8.2	7.1	6.0	4.3	2.1	0.0
65°	10.4	8.9	7.6	6.4	4.7	2.4	0.0
62.5°	11.3	9.6	8.0	6.7	5.2	2.6	0.0
60°	12.1	10.3	8.5	7.0	5.6	2.8	0.0
57.5°	13.5	11.0	9.0	7.4	5.8	3.0	0.0
55°	14.9	11.7	9.6	7.7	6.0	3.2	0.0
52.5°	16.3	12.4	10.1	8.0	6.2	3.4	0.0
50°	17.7	13.5	10.6	8.3	6.4	3.6	0.0
47.5°	19.1	14.6	11.1	8.6	6.6	3.8	0.0
45°	21.3	15.6	11.5	8.9	6.8	4.0	0.0
42.5°	23.3	16.6	12.0	9.3	7.0	4.1	0.0
40°	25.3	17.6	12.6	9.6	7.1	4.3	0.0
37.5°	27.2	18.5	13.3	9.9	7.3	4.4	0.0
35°	28.9	19.8	14.0	10.2	7.4	4.6	0.0
32.5°	31.8	21.1	14.6	10.5	7.6	4.7	0.0
30°	37.1	22.4	15.2	10.7	7.7	4.8	0.0
27.5°	42.0	23.6	15.8	10.9	7.8	5.0	0.0
25°	46.5	24.7	16.3	11.2	8.0	5.1	0.0
22.5°	50.7	25.7	16.8	11.4	8.1	5.2	0.0
20°	54.4	26.6	17.2	11.5	8.1	5.3	0.0
17.5°	57.7	27.4	17.6	11.7	8.2	5.3	0.0
15°	60.6	28.1	17.9	11.8	8.3	5.4	0.0
12.5°	63.0	28.7	18.2	11.9	8.4	5.5	0.0
10°	65.0	29.2	18.4	12.0	8.4	5.5	0.0
7.5°	66.6	29.6	18.6	12.1	8.5	5.6	0.0
5°	67.7	29.9	18.7	12.2	8.5	5.6	0.0
2.5°	68.4	30.0	18.8	12.2	8.5	5.6	0.0
0°	68.6	30.1	18.8	12.2	8.5	5.6	0.0
-2.5°	68.4	30.0	18.8	12.2	8.5	5.6	0.0
-5°	67.7	29.9	18.7	12.2	8.5	5.6	0.0
-7.5°	66.6	29.6	18.6	12.1	8.5	5.6	0.0
-10°	65.0	29.2	18.4	12.0	8.4	5.5	0.0
-12.5°	63.0	28.7	18.2	11.9	8.4	5.5	0.0
-15°	60.6	28.1	17.9	11.8	8.3	5.4	0.0
-17.5°	57.7	27.4	17.6	11.7	8.2	5.3	0.0
-20°	54.4	26.6	17.2	11.5	8.1	5.3	0.0



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 CATALOG NUMBER: EPH-LS-08-0320N-57-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	50.7	25.7	16.8	11.4	8.1	5.2	0.0
-25°	46.5	24.7	16.3	11.2	8.0	5.1	0.0
-27.5°	42.0	23.6	15.8	10.9	7.8	5.0	0.0
-30°	37.1	22.4	15.2	10.7	7.7	4.8	0.0
-32.5°	31.8	21.1	14.6	10.5	7.6	4.7	0.0
-35°	28.9	19.8	14.0	10.2	7.4	4.6	0.0
-37.5°	27.2	18.5	13.3	9.9	7.3	4.4	0.0
-40°	25.3	17.6	12.6	9.6	7.1	4.3	0.0
-42.5°	23.3	16.6	12.0	9.3	7.0	4.1	0.0
-45°	21.3	15.6	11.5	8.9	6.8	4.0	0.0
-47.5°	19.1	14.6	11.1	8.6	6.6	3.8	0.0
-50°	17.7	13.5	10.6	8.3	6.4	3.6	0.0
-52.5°	16.3	12.4	10.1	8.0	6.2	3.4	0.0
-55°	14.9	11.7	9.6	7.7	6.0	3.2	0.0
-57.5°	13.5	11.0	9.0	7.4	5.8	3.0	0.0
-60°	12.1	10.3	8.5	7.0	5.6	2.8	0.0
-62.5°	11.3	9.6	8.0	6.7	5.2	2.6	0.0
-65°	10.4	8.9	7.6	6.4	4.7	2.4	0.0
-67.5°	9.5	8.2	7.1	6.0	4.3	2.1	0.0
-70°	8.6	7.6	6.6	5.7	3.8	1.9	0.0
-72.5°	7.9	7.0	6.2	5.0	3.4	1.7	0.0
-75°	7.2	6.4	5.7	4.3	2.9	1.4	0.0
-77.5°	6.4	5.8	4.8	3.6	2.4	1.2	0.0
-80°	5.7	4.8	3.9	2.9	1.9	1.0	0.0
-82.5°	4.3	3.6	2.9	2.2	1.5	0.7	0.0
-85°	2.9	2.4	1.9	1.5	1.0	0.5	0.0
-87.5°	1.4	1.2	1.0	0.7	0.5	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

