

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: P731200 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-70-3S-HEG**

Issue Date: 11/16/2023

Test Information

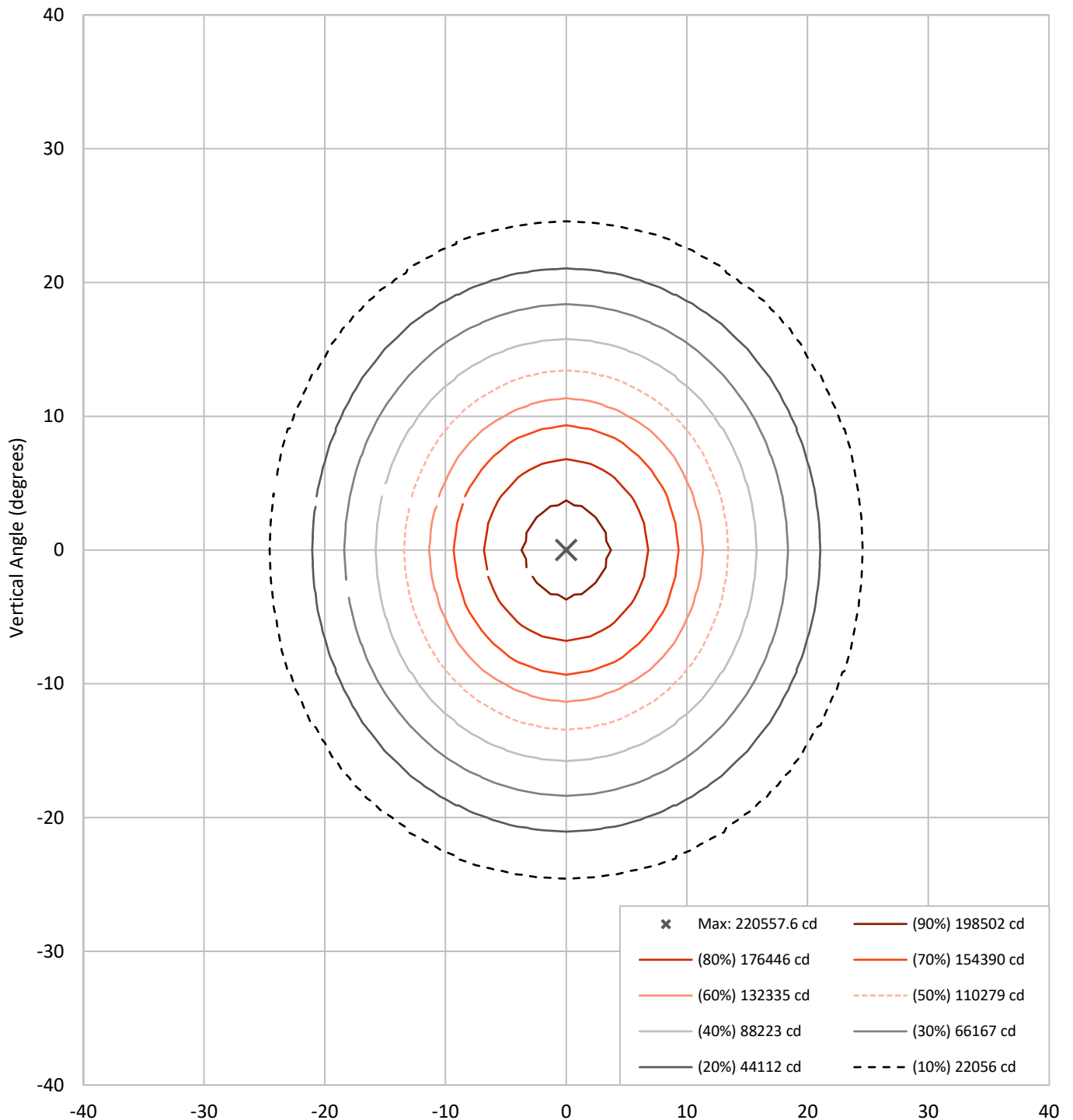
Test Method: LM-79-08
Report Number: P731200 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-40-70-3S-HEG
Description: EPHESUS LUMASPORT 8 INTEGRAL 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:	59569.6 lumens	Max Intensity:	220557.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	172.3 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:	25828.5 lumens	Field Lumens:	49448.7 lumens
Beam Efficiency:	43.4%	Field Efficiency:	83.0%
Input Watts (W):	345.8		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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Iso-Candela Plot





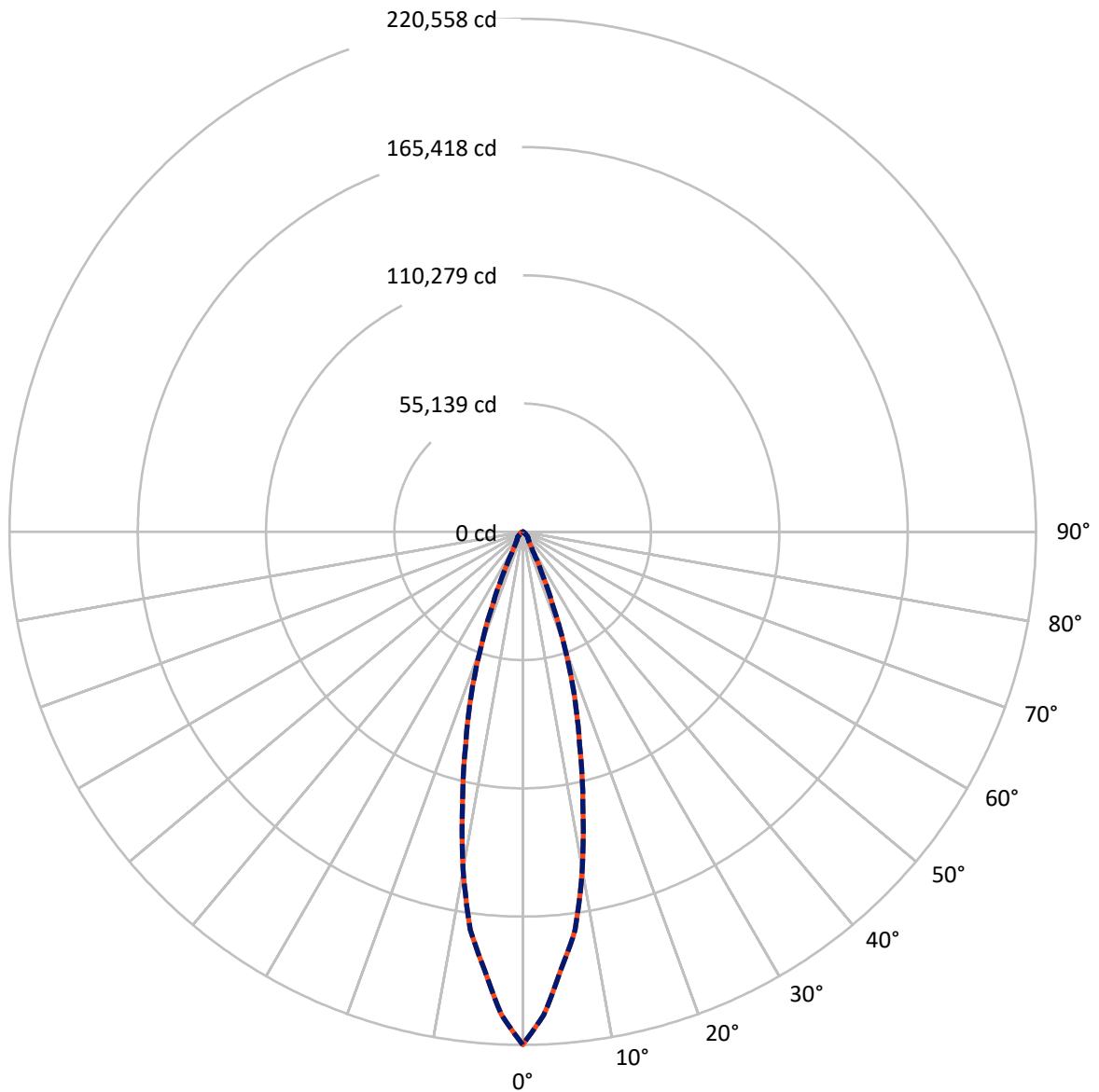
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Lumen Table

90	0.1		0.5		2.1		5.4		7.2		5.4		2.1		0.5		0.1
80	0.1		0.5		2.1		5.4		7.2		5.4		2.1		0.5		0.1
70	0.2	0.3	1.3	4.0	7.8	11.8	15.1	17.0	17.0	15.1	11.8	7.8	4.0	1.3	0.3	0.2	
60		1.0	4.6	10.9	18.6	26.6	33.0	36.4	36.4	33.0	26.6	18.6	10.9	4.6	1.0		
50	0.7	2.4	8.9	18.9	31.2	49.1	70.3	82.5	82.5	70.3	49.1	31.2	18.9	8.9	2.4	0.7	
40		4.1	13.2	27.0	55.1	90.7	116.7	137.0	137.0	116.7	90.7	55.1	27.0	13.2	4.1		
30	1.6	5.7	17.0	38.6	82.1	130.0	300.5	618.1	618.1	300.5	130.0	82.1	38.6	17.0	5.7	1.6	
20		6.8	19.8	52.0	99.3	283.7	1314.7	2632.8	2632.8	1314.7	283.7	99.3	52.0	19.8	6.8		
10	2.0	7.4	21.2	59.1	113.3	569.0	2560.7	5050.3	5050.3	2560.7	569.0	113.3	59.1	21.2	7.4	2.0	
0		7.4	21.2	59.1	113.3	569.0	2560.7	5050.3	5050.3	2560.7	569.0	113.3	59.1	21.2	7.4		
-10	1.6	6.8	19.8	52.0	99.3	283.7	1314.7	2632.8	2632.8	1314.7	283.7	99.3	52.0	19.8	6.8	1.6	
-20		5.7	17.0	38.6	82.1	130.0	300.5	618.1	618.1	300.5	130.0	82.1	38.6	17.0	5.7		
-30	0.7	4.1	13.2	27.0	55.1	90.7	116.7	137.0	137.0	116.7	90.7	55.1	27.0	13.2	4.1	0.7	
-40		2.4	8.9	18.9	31.2	49.1	70.3	82.5	82.5	70.3	49.1	31.2	18.9	8.9	2.4		
-50	0.2	1.0	4.6	10.9	18.6	26.6	33.0	36.4	36.4	33.0	26.6	18.6	10.9	4.6	1.0	0.2	
-60		0.3	1.3	4.0	7.8	11.8	15.1	17.0	17.0	15.1	11.8	7.8	4.0	1.3	0.3		
-70	0.1		0.5		2.1		5.4		7.2		5.4		2.1		0.5		0.1
-80	0.1		0.5		2.1		5.4		7.2		5.4		2.1		0.5		0.1
-90	0.1		0.5		2.1		5.4		7.2		5.4		2.1		0.5		0.1

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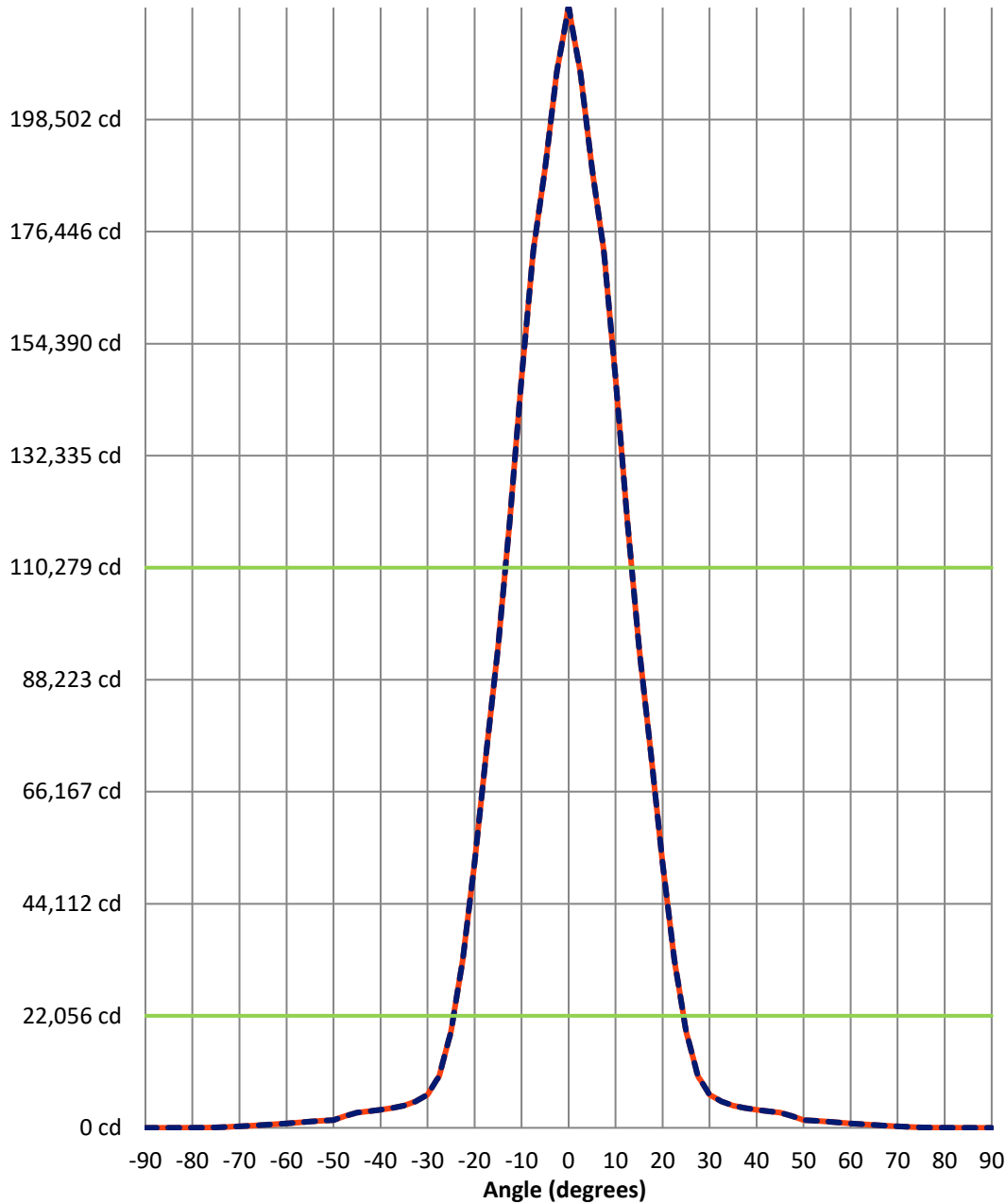
Luminous Intensity Polar Plot



— 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: 25828.5
Efficiency: 43.4%

Field:
H Angle: 48.9°
V Angle: 48.9°
Lumens: 49448.7
Efficiency: 83.0%

Spill:
Lumens: 10121
Efficiency: 17.0%

- Vertical Distribution through 0-Deg
- - Horizontal Distribution through 0-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.2	0.3	0.5	0.7	0.9	1.0	1.2	1.4	1.5	1.7
85°	0.0	0.3	0.7	1.0	1.4	1.7	2.1	2.4	2.7	3.1	3.4
82.5°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.4	4.8
80°	0.0	0.7	1.4	2.1	2.8	3.4	4.1	4.6	5.1	5.6	6.1
77.5°	0.0	0.9	1.7	2.6	3.4	4.2	4.9	5.5	6.1	6.7	7.5
75°	0.0	1.0	2.1	3.1	4.1	4.9	5.6	6.4	7.2	8.4	9.6
72.5°	0.0	1.2	2.4	3.6	4.6	5.5	6.4	7.4	8.8	10.2	11.6
70°	0.0	1.4	2.7	4.1	5.1	6.1	7.2	8.8	10.4	12.1	14.3
67.5°	0.0	1.5	3.1	4.4	5.6	6.7	8.4	10.2	12.1	14.6	17.1
65°	0.0	1.7	3.4	4.8	6.1	7.5	9.6	11.6	14.3	17.1	20.6
62.5°	0.0	1.8	3.7	5.1	6.5	8.5	10.7	13.3	16.4	20.0	26.1
60°	0.0	2.0	4.0	5.5	7.0	9.4	11.9	15.2	18.6	24.8	31.4
57.5°	0.0	2.1	4.2	5.8	7.7	10.4	13.4	17.0	22.3	29.5	45.1
55°	0.0	2.3	4.4	6.2	8.4	11.3	14.9	18.8	26.4	36.6	62.5
52.5°	0.0	2.4	4.6	6.5	9.1	12.2	16.4	22.1	30.4	51.8	79.4
50°	0.0	2.6	4.9	6.8	9.8	13.4	17.8	25.5	36.9	66.6	110.2
47.5°	0.0	2.7	5.1	7.1	10.5	14.5	19.4	28.7	49.6	80.9	141.7
45°	0.0	2.8	5.2	7.6	11.1	15.6	22.1	31.8	61.9	107.9	172.1
42.5°	0.0	2.9	5.4	8.0	11.7	16.7	24.6	39.0	73.6	134.1	207.9
40°	0.0	3.1	5.6	8.5	12.4	17.7	27.1	48.8	88.4	159.1	243.3
37.5°	0.0	3.2	5.8	8.9	13.2	18.7	29.4	58.1	109.5	184.8	277.0
35°	0.0	3.3	5.9	9.3	13.9	20.2	31.6	67.0	129.6	213.4	308.6
32.5°	0.0	3.4	6.1	9.6	14.6	21.9	35.2	75.3	148.4	240.4	338.0
30°	0.0	3.5	6.2	10.0	15.2	23.5	41.8	84.8	166.1	265.6	365.6
27.5°	0.0	3.5	6.3	10.3	15.8	25.0	48.0	99.1	184.1	289.1	391.3
25°	0.0	3.6	6.4	10.6	16.4	26.4	53.6	112.2	203.2	310.5	415.2
22.5°	0.0	3.7	6.5	10.9	16.8	27.7	58.8	124.2	220.7	329.8	442.6
20°	0.0	3.8	6.6	11.1	17.3	28.8	63.4	135.0	236.4	347.2	467.3
17.5°	0.0	3.8	6.7	11.3	17.7	29.8	67.6	144.6	250.4	362.7	489.3
15°	0.0	3.9	6.8	11.5	18.0	30.7	71.1	153.0	262.6	376.2	508.5
12.5°	0.0	3.9	6.9	11.6	18.3	31.4	74.2	160.1	273.0	387.7	524.8
10°	0.0	3.9	6.9	11.8	18.6	32.0	76.7	166.0	281.5	397.1	538.3
7.5°	0.0	4.0	6.9	11.9	18.8	32.5	78.7	170.5	288.1	404.5	548.8
5°	0.0	4.0	7.0	11.9	18.9	32.8	80.1	173.8	292.9	409.8	556.3
2.5°	0.0	4.0	7.0	12.0	19.0	33.0	80.9	175.7	295.7	412.9	560.8
0°	0.0	4.0	7.0	12.0	19.0	33.1	81.2	176.4	296.7	414.0	562.3
-2.5°	0.0	4.0	7.0	12.0	19.0	33.0	80.9	175.7	295.7	412.9	560.8
-5°	0.0	4.0	7.0	11.9	18.9	32.8	80.1	173.8	292.9	409.8	556.3
-7.5°	0.0	4.0	6.9	11.9	18.8	32.5	78.7	170.5	288.1	404.5	548.8
-10°	0.0	3.9	6.9	11.8	18.6	32.0	76.7	166.0	281.5	397.1	538.3
-12.5°	0.0	3.9	6.9	11.6	18.3	31.4	74.2	160.1	273.0	387.7	524.8
-15°	0.0	3.9	6.8	11.5	18.0	30.7	71.1	153.0	262.6	376.2	508.5
-17.5°	0.0	3.8	6.7	11.3	17.7	29.8	67.6	144.6	250.4	362.7	489.3
-20°	0.0	3.8	6.6	11.1	17.3	28.8	63.4	135.0	236.4	347.2	467.3



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-HEG

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	3.7	6.5	10.9	16.8	27.7	58.8	124.2	220.7	329.8	442.6
-25°	0.0	3.6	6.4	10.6	16.4	26.4	53.6	112.2	203.2	310.5	415.2
-27.5°	0.0	3.5	6.3	10.3	15.8	25.0	48.0	99.1	184.1	289.1	391.3
-30°	0.0	3.5	6.2	10.0	15.2	23.5	41.8	84.8	166.1	265.6	365.6
-32.5°	0.0	3.4	6.1	9.6	14.6	21.9	35.2	75.3	148.4	240.4	338.0
-35°	0.0	3.3	5.9	9.3	13.9	20.2	31.6	67.0	129.6	213.4	308.6
-37.5°	0.0	3.2	5.8	8.9	13.2	18.7	29.4	58.1	109.5	184.8	277.0
-40°	0.0	3.1	5.6	8.5	12.4	17.7	27.1	48.8	88.4	159.1	243.3
-42.5°	0.0	2.9	5.4	8.0	11.7	16.7	24.6	39.0	73.6	134.1	207.9
-45°	0.0	2.8	5.2	7.6	11.1	15.6	22.1	31.8	61.9	107.9	172.1
-47.5°	0.0	2.7	5.1	7.1	10.5	14.5	19.4	28.7	49.6	80.9	141.7
-50°	0.0	2.6	4.9	6.8	9.8	13.4	17.8	25.5	36.9	66.6	110.2
-52.5°	0.0	2.4	4.6	6.5	9.1	12.2	16.4	22.1	30.4	51.8	79.4
-55°	0.0	2.3	4.4	6.2	8.4	11.3	14.9	18.8	26.4	36.6	62.5
-57.5°	0.0	2.1	4.2	5.8	7.7	10.4	13.4	17.0	22.3	29.5	45.1
-60°	0.0	2.0	4.0	5.5	7.0	9.4	11.9	15.2	18.6	24.8	31.4
-62.5°	0.0	1.8	3.7	5.1	6.5	8.5	10.7	13.3	16.4	20.0	26.1
-65°	0.0	1.7	3.4	4.8	6.1	7.5	9.6	11.6	14.3	17.1	20.6
-67.5°	0.0	1.5	3.1	4.4	5.6	6.7	8.4	10.2	12.1	14.6	17.1
-70°	0.0	1.4	2.7	4.1	5.1	6.1	7.2	8.8	10.4	12.1	14.3
-72.5°	0.0	1.2	2.4	3.6	4.6	5.5	6.4	7.4	8.8	10.2	11.6
-75°	0.0	1.0	2.1	3.1	4.1	4.9	5.6	6.4	7.2	8.4	9.6
-77.5°	0.0	0.9	1.7	2.6	3.4	4.2	4.9	5.5	6.1	6.7	7.5
-80°	0.0	0.7	1.4	2.1	2.8	3.4	4.1	4.6	5.1	5.6	6.1
-82.5°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.4	4.8
-85°	0.0	0.3	0.7	1.0	1.4	1.7	2.1	2.4	2.7	3.1	3.4
-87.5°	0.0	0.2	0.3	0.5	0.7	0.9	1.0	1.2	1.4	1.5	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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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.8	2.9	3.1	3.2
85°	3.7	4.0	4.2	4.4	4.6	4.9	5.1	5.2	5.4	5.6	5.8
82.5°	5.1	5.5	5.8	6.2	6.5	6.8	7.1	7.6	8.0	8.5	8.9
80°	6.5	7.0	7.7	8.4	9.1	9.8	10.5	11.1	11.7	12.4	13.2
77.5°	8.5	9.4	10.4	11.3	12.2	13.4	14.5	15.6	16.7	17.7	18.7
75°	10.7	11.9	13.4	14.9	16.4	17.8	19.4	22.1	24.6	27.1	29.4
72.5°	13.3	15.2	17.0	18.8	22.1	25.5	28.7	31.8	39.0	48.8	58.1
70°	16.4	18.6	22.3	26.4	30.4	36.9	49.6	61.9	73.6	88.4	109.5
67.5°	20.0	24.8	29.5	36.6	51.8	66.6	80.9	107.9	134.1	159.1	184.8
65°	26.1	31.4	45.1	62.5	79.4	110.2	141.7	172.1	207.9	243.3	277.0
62.5°	32.0	49.4	69.0	94.8	131.7	167.5	209.0	251.3	292.1	330.2	366.6
60°	49.4	71.1	103.4	144.6	187.0	236.4	284.3	329.8	373.3	415.2	465.6
57.5°	69.0	103.4	149.0	198.0	253.0	306.3	357.0	406.0	463.7	521.1	576.3
55°	94.8	144.6	198.0	258.6	317.2	373.4	431.7	498.7	563.3	626.8	687.5
52.5°	131.7	187.0	253.0	317.2	378.9	445.8	519.9	592.4	663.3	731.2	795.0
50°	167.5	236.4	306.3	373.4	445.8	527.0	607.0	685.5	760.2	831.5	909.3
47.5°	209.0	284.3	357.0	431.7	519.9	607.0	692.9	774.8	853.6	946.2	1037.0
45°	251.3	329.8	406.0	498.7	592.4	685.5	774.8	861.0	964.8	1066.2	1167.2
42.5°	292.1	373.3	463.7	563.3	663.3	760.2	853.6	964.8	1076.1	1187.3	1284.4
40°	330.2	415.2	521.1	626.8	731.2	831.5	946.2	1066.2	1187.3	1292.9	1387.6
37.5°	366.6	465.6	576.3	687.5	795.0	909.3	1037.0	1167.2	1284.4	1387.6	1471.4
35°	401.1	513.6	629.7	744.6	855.8	990.4	1127.4	1259.0	1370.3	1464.1	1694.8
32.5°	438.9	558.8	680.2	798.0	926.1	1068.5	1213.7	1335.9	1442.1	1602.8	2166.1
30°	477.5	602.2	727.3	848.3	993.6	1144.5	1285.1	1406.0	1506.8	2025.5	2565.5
27.5°	513.6	642.7	770.4	903.5	1057.4	1215.7	1349.0	1462.9	1794.3	2408.0	2917.4
25°	546.8	680.2	810.4	957.5	1118.6	1273.9	1405.7	1516.0	2143.7	2716.9	3095.9
22.5°	577.6	714.4	847.0	1007.0	1174.8	1324.6	1451.2	1777.5	2442.5	2995.6	3222.1
20°	605.6	744.6	884.7	1052.2	1225.8	1370.7	1492.5	2051.3	2686.2	3103.3	3342.9
17.5°	630.6	771.5	921.3	1094.0	1265.1	1408.6	1560.5	2297.3	2905.4	3200.4	3454.4
15°	652.4	795.0	953.3	1130.6	1298.3	1438.6	1760.2	2481.1	3034.7	3287.9	3553.9
12.5°	671.0	815.0	980.6	1161.9	1326.7	1464.2	1931.2	2634.3	3102.9	3366.5	3658.5
10°	686.3	831.5	1003.1	1187.7	1350.2	1485.4	2072.6	2761.1	3159.4	3431.9	3745.7
7.5°	698.3	844.3	1020.7	1207.8	1368.5	1502.1	2183.6	2860.7	3203.9	3483.3	3814.4
5°	706.8	853.6	1033.4	1222.3	1381.7	1514.0	2263.4	2932.4	3235.9	3520.5	3864.1
2.5°	712.0	859.1	1041.0	1231.0	1389.6	1521.2	2311.4	2975.7	3255.2	3542.9	3894.2
0°	713.7	861.0	1043.5	1233.9	1392.3	1523.6	2327.5	2990.1	3261.7	3550.4	3904.2
-2.5°	712.0	859.1	1041.0	1231.0	1389.6	1521.2	2311.4	2975.7	3255.2	3542.9	3894.2
-5°	706.8	853.6	1033.4	1222.3	1381.7	1514.0	2263.4	2932.4	3235.9	3520.5	3864.1
-7.5°	698.3	844.3	1020.7	1207.8	1368.5	1502.1	2183.6	2860.7	3203.9	3483.3	3814.4
-10°	686.3	831.5	1003.1	1187.7	1350.2	1485.4	2072.6	2761.1	3159.4	3431.9	3745.7
-12.5°	671.0	815.0	980.6	1161.9	1326.7	1464.2	1931.2	2634.3	3102.9	3366.5	3658.5
-15°	652.4	795.0	953.3	1130.6	1298.3	1438.6	1760.2	2481.1	3034.7	3287.9	3553.9
-17.5°	630.6	771.5	921.3	1094.0	1265.1	1408.6	1560.5	2297.3	2905.4	3200.4	3454.4
-20°	605.6	744.6	884.7	1052.2	1225.8	1370.7	1492.5	2051.3	2686.2	3103.3	3342.9



REPORT NUMBER: P731200 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	577.6	714.4	847.0	1007.0	1174.8	1324.6	1451.2	1777.5	2442.5	2995.6	3222.1
-25°	546.8	680.2	810.4	957.5	1118.6	1273.9	1405.7	1516.0	2143.7	2716.9	3095.9
-27.5°	513.6	642.7	770.4	903.5	1057.4	1215.7	1349.0	1462.9	1794.3	2408.0	2917.4
-30°	477.5	602.2	727.3	848.3	993.6	1144.5	1285.1	1406.0	1506.8	2025.5	2565.5
-32.5°	438.9	558.8	680.2	798.0	926.1	1068.5	1213.7	1335.9	1442.1	1602.8	2166.1
-35°	401.1	513.6	629.7	744.6	855.8	990.4	1127.4	1259.0	1370.3	1464.1	1694.8
-37.5°	366.6	465.6	576.3	687.5	795.0	909.3	1037.0	1167.2	1284.4	1387.6	1471.4
-40°	330.2	415.2	521.1	626.8	731.2	831.5	946.2	1066.2	1187.3	1292.9	1387.6
-42.5°	292.1	373.3	463.7	563.3	663.3	760.2	853.6	964.8	1076.1	1187.3	1284.4
-45°	251.3	329.8	406.0	498.7	592.4	685.5	774.8	861.0	964.8	1066.2	1167.2
-47.5°	209.0	284.3	357.0	431.7	519.9	607.0	692.9	774.8	853.6	946.2	1037.0
-50°	167.5	236.4	306.3	373.4	445.8	527.0	607.0	685.5	760.2	831.5	909.3
-52.5°	131.7	187.0	253.0	317.2	378.9	445.8	519.9	592.4	663.3	731.2	795.0
-55°	94.8	144.6	198.0	258.6	317.2	373.4	431.7	498.7	563.3	626.8	687.5
-57.5°	69.0	103.4	149.0	198.0	253.0	306.3	357.0	406.0	463.7	521.1	576.3
-60°	49.4	71.1	103.4	144.6	187.0	236.4	284.3	329.8	373.3	415.2	465.6
-62.5°	32.0	49.4	69.0	94.8	131.7	167.5	209.0	251.3	292.1	330.2	366.6
-65°	26.1	31.4	45.1	62.5	79.4	110.2	141.7	172.1	207.9	243.3	277.0
-67.5°	20.0	24.8	29.5	36.6	51.8	66.6	80.9	107.9	134.1	159.1	184.8
-70°	16.4	18.6	22.3	26.4	30.4	36.9	49.6	61.9	73.6	88.4	109.5
-72.5°	13.3	15.2	17.0	18.8	22.1	25.5	28.7	31.8	39.0	48.8	58.1
-75°	10.7	11.9	13.4	14.9	16.4	17.8	19.4	22.1	24.6	27.1	29.4
-77.5°	8.5	9.4	10.4	11.3	12.2	13.4	14.5	15.6	16.7	17.7	18.7
-80°	6.5	7.0	7.7	8.4	9.1	9.8	10.5	11.1	11.7	12.4	13.2
-82.5°	5.1	5.5	5.8	6.2	6.5	6.8	7.1	7.6	8.0	8.5	8.9
-85°	3.7	4.0	4.2	4.4	4.6	4.9	5.1	5.2	5.4	5.6	5.8
-87.5°	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.8	2.9	3.1	3.2
-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: P731200 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-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°	3.3	3.4	3.5	3.5	3.6	3.7	3.8	3.8	3.9	3.9	3.9
85°	5.9	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	6.9
82.5°	9.3	9.6	10.0	10.3	10.6	10.9	11.1	11.3	11.5	11.6	11.8
80°	13.9	14.6	15.2	15.8	16.4	16.8	17.3	17.7	18.0	18.3	18.6
77.5°	20.2	21.9	23.5	25.0	26.4	27.7	28.8	29.8	30.7	31.4	32.0
75°	31.6	35.2	41.8	48.0	53.6	58.8	63.4	67.6	71.1	74.2	76.7
72.5°	67.0	75.3	84.8	99.1	112.2	124.2	135.0	144.6	153.0	160.1	166.0
70°	129.6	148.4	166.1	184.1	203.2	220.7	236.4	250.4	262.6	273.0	281.5
67.5°	213.4	240.4	265.6	289.1	310.5	329.8	347.2	362.7	376.2	387.7	397.1
65°	308.6	338.0	365.6	391.3	415.2	442.6	467.3	489.3	508.5	524.8	538.3
62.5°	401.1	438.9	477.5	513.6	546.8	577.6	605.6	630.6	652.4	671.0	686.3
60°	513.6	558.8	602.2	642.7	680.2	714.4	744.6	771.5	795.0	815.0	831.5
57.5°	629.7	680.2	727.3	770.4	810.4	847.0	884.7	921.3	953.3	980.6	1003.1
55°	744.6	798.0	848.3	903.5	957.5	1007.0	1052.2	1094.0	1130.6	1161.9	1187.7
52.5°	855.8	926.1	993.6	1057.4	1118.6	1174.8	1225.8	1265.1	1298.3	1326.7	1350.2
50°	990.4	1068.5	1144.5	1215.7	1273.9	1324.6	1370.7	1408.6	1438.6	1464.2	1485.4
47.5°	1127.4	1213.7	1285.1	1349.0	1405.7	1451.2	1492.5	1560.5	1760.2	1931.2	2072.6
45°	1259.0	1335.9	1406.0	1462.9	1516.0	1777.5	2051.3	2297.3	2481.1	2634.3	2761.1
42.5°	1370.3	1442.1	1506.8	1794.3	2143.7	2442.5	2686.2	2905.4	3034.7	3102.9	3159.4
40°	1464.1	1602.8	2025.5	2408.0	2716.9	2995.6	3103.3	3200.4	3287.9	3366.5	3431.9
37.5°	1694.8	2166.1	2565.5	2917.4	3095.9	3222.1	3342.9	3454.4	3553.9	3658.5	3745.7
35°	2213.4	2645.2	3010.4	3164.1	3312.1	3456.0	3597.3	3744.9	3876.1	4017.9	4144.0
32.5°	2645.2	3027.2	3198.7	3368.6	3533.2	3718.3	3893.2	4101.3	4290.3	4517.3	4762.5
30°	3010.4	3198.7	3387.6	3577.3	3792.4	4024.5	4274.4	4603.7	4969.0	5330.2	5749.1
27.5°	3164.1	3368.6	3577.3	3817.4	4093.1	4385.7	4864.3	5356.1	5975.6	6519.0	7825.7
25°	3312.1	3533.2	3792.4	4093.1	4449.6	4997.1	5679.2	6421.8	8159.7	9856.4	12690.8
22.5°	3456.0	3718.3	4024.5	4385.7	4997.1	5788.5	6889.1	9180.1	12628.6	16982.3	21742.1
20°	3597.3	3893.2	4274.4	4864.3	5679.2	6889.1	9526.1	14333.3	20062.3	27761.3	34868.4
17.5°	3744.9	4101.3	4603.7	5356.1	6421.8	9180.1	14333.3	21533.9	30882.0	41545.5	51544.8
15°	3876.1	4290.3	4969.0	5975.6	8159.7	12628.6	20062.3	30882.0	43835.7	57055.2	69809.4
12.5°	4017.9	4517.3	5330.2	6519.0	9856.4	16982.3	27761.3	41545.5	57055.2	72907.2	86631.8
10°	4144.0	4762.5	5749.1	7825.7	12690.8	21742.1	34868.4	51544.8	69809.4	86631.8	103004.7
7.5°	4243.8	4957.0	6082.4	8873.6	15403.4	26595.3	42196.4	60875.9	80209.1	98853.2	119787.8
5°	4316.0	5098.1	6324.8	9638.3	17391.7	30173.2	47640.6	67944.2	87998.5	109732.3	133677.9
2.5°	4359.7	5183.6	6472.0	10103.9	18606.4	32368.2	51000.0	72341.5	92902.9	117032.8	143872.8
0°	4374.3	5212.3	6521.4	10260.3	19015.0	33108.3	52136.3	73835.6	94580.7	119550.8	147541.9
-2.5°	4359.7	5183.6	6472.0	10103.9	18606.4	32368.2	51000.0	72341.5	92902.9	117032.8	143872.8
-5°	4316.0	5098.1	6324.8	9638.3	17391.7	30173.2	47640.6	67944.2	87998.5	109732.3	133677.9
-7.5°	4243.8	4957.0	6082.4	8873.6	15403.4	26595.3	42196.4	60875.9	80209.1	98853.2	119787.8
-10°	4144.0	4762.5	5749.1	7825.7	12690.8	21742.1	34868.4	51544.8	69809.4	86631.8	103004.7
-12.5°	4017.9	4517.3	5330.2	6519.0	9856.4	16982.3	27761.3	41545.5	57055.2	72907.2	86631.8
-15°	3876.1	4290.3	4969.0	5975.6	8159.7	12628.6	20062.3	30882.0	43835.7	57055.2	69809.4
-17.5°	3744.9	4101.3	4603.7	5356.1	6421.8	9180.1	14333.3	21533.9	30882.0	41545.5	51544.8
-20°	3597.3	3893.2	4274.4	4864.3	5679.2	6889.1	9526.1	14333.3	20062.3	27761.3	34868.4



REPORT NUMBER: P731200 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3456.0	3718.3	4024.5	4385.7	4997.1	5788.5	6889.1	9180.1	12628.6	16982.3	21742.1
-25°	3312.1	3533.2	3792.4	4093.1	4449.6	4997.1	5679.2	6421.8	8159.7	9856.4	12690.8
-27.5°	3164.1	3368.6	3577.3	3817.4	4093.1	4385.7	4864.3	5356.1	5975.6	6519.0	7825.7
-30°	3010.4	3198.7	3387.6	3577.3	3792.4	4024.5	4274.4	4603.7	4969.0	5330.2	5749.1
-32.5°	2645.2	3027.2	3198.7	3368.6	3533.2	3718.3	3893.2	4101.3	4290.3	4517.3	4762.5
-35°	2213.4	2645.2	3010.4	3164.1	3312.1	3456.0	3597.3	3744.9	3876.1	4017.9	4144.0
-37.5°	1694.8	2166.1	2565.5	2917.4	3095.9	3222.1	3342.9	3454.4	3553.9	3658.5	3745.7
-40°	1464.1	1602.8	2025.5	2408.0	2716.9	2995.6	3103.3	3200.4	3287.9	3366.5	3431.9
-42.5°	1370.3	1442.1	1506.8	1794.3	2143.7	2442.5	2686.2	2905.4	3034.7	3102.9	3159.4
-45°	1259.0	1335.9	1406.0	1462.9	1516.0	1777.5	2051.3	2297.3	2481.1	2634.3	2761.1
-47.5°	1127.4	1213.7	1285.1	1349.0	1405.7	1451.2	1492.5	1560.5	1760.2	1931.2	2072.6
-50°	990.4	1068.5	1144.5	1215.7	1273.9	1324.6	1370.7	1408.6	1438.6	1464.2	1485.4
-52.5°	855.8	926.1	993.6	1057.4	1118.6	1174.8	1225.8	1265.1	1298.3	1326.7	1350.2
-55°	744.6	798.0	848.3	903.5	957.5	1007.0	1052.2	1094.0	1130.6	1161.9	1187.7
-57.5°	629.7	680.2	727.3	770.4	810.4	847.0	884.7	921.3	953.3	980.6	1003.1
-60°	513.6	558.8	602.2	642.7	680.2	714.4	744.6	771.5	795.0	815.0	831.5
-62.5°	401.1	438.9	477.5	513.6	546.8	577.6	605.6	630.6	652.4	671.0	686.3
-65°	308.6	338.0	365.6	391.3	415.2	442.6	467.3	489.3	508.5	524.8	538.3
-67.5°	213.4	240.4	265.6	289.1	310.5	329.8	347.2	362.7	376.2	387.7	397.1
-70°	129.6	148.4	166.1	184.1	203.2	220.7	236.4	250.4	262.6	273.0	281.5
-72.5°	67.0	75.3	84.8	99.1	112.2	124.2	135.0	144.6	153.0	160.1	166.0
-75°	31.6	35.2	41.8	48.0	53.6	58.8	63.4	67.6	71.1	74.2	76.7
-77.5°	20.2	21.9	23.5	25.0	26.4	27.7	28.8	29.8	30.7	31.4	32.0
-80°	13.9	14.6	15.2	15.8	16.4	16.8	17.3	17.7	18.0	18.3	18.6
-82.5°	9.3	9.6	10.0	10.3	10.6	10.9	11.1	11.3	11.5	11.6	11.8
-85°	5.9	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	6.9
-87.5°	3.3	3.4	3.5	3.5	3.6	3.7	3.8	3.8	3.9	3.9	3.9
-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: P731200 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-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°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.8
85°	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.9	6.8	6.7
82.5°	11.9	11.9	12.0	12.0	12.0	11.9	11.9	11.8	11.6	11.5	11.3
80°	18.8	18.9	19.0	19.0	19.0	18.9	18.8	18.6	18.3	18.0	17.7
77.5°	32.5	32.8	33.0	33.1	33.0	32.8	32.5	32.0	31.4	30.7	29.8
75°	78.7	80.1	80.9	81.2	80.9	80.1	78.7	76.7	74.2	71.1	67.6
72.5°	170.5	173.8	175.7	176.4	175.7	173.8	170.5	166.0	160.1	153.0	144.6
70°	288.1	292.9	295.7	296.7	295.7	292.9	288.1	281.5	273.0	262.6	250.4
67.5°	404.5	409.8	412.9	414.0	412.9	409.8	404.5	397.1	387.7	376.2	362.7
65°	548.8	556.3	560.8	562.3	560.8	556.3	548.8	538.3	524.8	508.5	489.3
62.5°	698.3	706.8	712.0	713.7	712.0	706.8	698.3	686.3	671.0	652.4	630.6
60°	844.3	853.6	859.1	861.0	859.1	853.6	844.3	831.5	815.0	795.0	771.5
57.5°	1020.7	1033.4	1041.0	1043.5	1041.0	1033.4	1020.7	1003.1	980.6	953.3	921.3
55°	1207.8	1222.3	1231.0	1233.9	1231.0	1222.3	1207.8	1187.7	1161.9	1130.6	1094.0
52.5°	1368.5	1381.7	1389.6	1392.3	1389.6	1381.7	1368.5	1350.2	1326.7	1298.3	1265.1
50°	1502.1	1514.0	1521.2	1523.6	1521.2	1514.0	1502.1	1485.4	1464.2	1438.6	1408.6
47.5°	2183.6	2263.4	2311.4	2327.5	2311.4	2263.4	2183.6	2072.6	1931.2	1760.2	1560.5
45°	2860.7	2932.4	2975.7	2990.1	2975.7	2932.4	2860.7	2761.1	2634.3	2481.1	2297.3
42.5°	3203.9	3235.9	3255.2	3261.7	3255.2	3235.9	3203.9	3159.4	3102.9	3034.7	2905.4
40°	3483.3	3520.5	3542.9	3550.4	3542.9	3520.5	3483.3	3431.9	3366.5	3287.9	3200.4
37.5°	3814.4	3864.1	3894.2	3904.2	3894.2	3864.1	3814.4	3745.7	3658.5	3553.9	3454.4
35°	4243.8	4316.0	4359.7	4374.3	4359.7	4316.0	4243.8	4144.0	4017.9	3876.1	3744.9
32.5°	4957.0	5098.1	5183.6	5212.3	5183.6	5098.1	4957.0	4762.5	4517.3	4290.3	4101.3
30°	6082.4	6324.8	6472.0	6521.4	6472.0	6324.8	6082.4	5749.1	5330.2	4969.0	4603.7
27.5°	8873.6	9638.3	10103.9	10260.3	10103.9	9638.3	8873.6	7825.7	6519.0	5975.6	5356.1
25°	15403.4	17391.7	18606.4	19015.0	18606.4	17391.7	15403.4	12690.8	9856.4	8159.7	6421.8
22.5°	26595.3	30173.2	32368.2	33108.3	32368.2	30173.2	26595.3	21742.1	16982.3	12628.6	9180.1
20°	42196.4	47640.6	51000.0	52136.3	51000.0	47640.6	42196.4	34868.4	27761.3	20062.3	14333.3
17.5°	60875.9	67944.2	72341.5	73835.6	72341.5	67944.2	60875.9	51544.8	41545.5	30882.0	21533.9
15°	80209.1	87998.5	92902.9	94580.7	92902.9	87998.5	80209.1	69809.4	57055.2	43835.7	30882.0
12.5°	98853.2	109732.3	117032.8	119550.8	117032.8	109732.3	98853.2	86631.8	72907.2	57055.2	41545.5
10°	119787.8	133677.9	143872.8	147541.9	143872.8	133677.9	119787.8	103004.7	86631.8	69809.4	51544.8
7.5°	140419.8	159171.1	169543.3	172622.8	169543.3	159171.1	140419.8	119787.8	98853.2	80209.1	60875.9
5°	159171.1	175931.1	185524.6	188843.6	185524.6	175931.1	159171.1	133677.9	109732.3	87998.5	67944.2
2.5°	169543.3	185524.6	198841.4	207877.7	198841.4	185524.6	169543.3	143872.8	117032.8	92902.9	72341.5
0°	172622.8	188843.6	207877.7	220557.6	207877.7	188843.6	172622.8	147541.9	119550.8	94580.7	73835.6
-2.5°	169543.3	185524.6	198841.4	207877.7	198841.4	185524.6	169543.3	143872.8	117032.8	92902.9	72341.5
-5°	159171.1	175931.1	185524.6	188843.6	185524.6	175931.1	159171.1	133677.9	109732.3	87998.5	67944.2
-7.5°	140419.8	159171.1	169543.3	172622.8	169543.3	159171.1	140419.8	119787.8	98853.2	80209.1	60875.9
-10°	119787.8	133677.9	143872.8	147541.9	143872.8	133677.9	119787.8	103004.7	86631.8	69809.4	51544.8
-12.5°	98853.2	109732.3	117032.8	119550.8	117032.8	109732.3	98853.2	86631.8	72907.2	57055.2	41545.5
-15°	80209.1	87998.5	92902.9	94580.7	92902.9	87998.5	80209.1	69809.4	57055.2	43835.7	30882.0
-17.5°	60875.9	67944.2	72341.5	73835.6	72341.5	67944.2	60875.9	51544.8	41545.5	30882.0	21533.9
-20°	42196.4	47640.6	51000.0	52136.3	51000.0	47640.6	42196.4	34868.4	27761.3	20062.3	14333.3



REPORT NUMBER: P731200 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	26595.3	30173.2	32368.2	33108.3	32368.2	30173.2	26595.3	21742.1	16982.3	12628.6	9180.1
-25°	15403.4	17391.7	18606.4	19015.0	18606.4	17391.7	15403.4	12690.8	9856.4	8159.7	6421.8
-27.5°	8873.6	9638.3	10103.9	10260.3	10103.9	9638.3	8873.6	7825.7	6519.0	5975.6	5356.1
-30°	6082.4	6324.8	6472.0	6521.4	6472.0	6324.8	6082.4	5749.1	5330.2	4969.0	4603.7
-32.5°	4957.0	5098.1	5183.6	5212.3	5183.6	5098.1	4957.0	4762.5	4517.3	4290.3	4101.3
-35°	4243.8	4316.0	4359.7	4374.3	4359.7	4316.0	4243.8	4144.0	4017.9	3876.1	3744.9
-37.5°	3814.4	3864.1	3894.2	3904.2	3894.2	3864.1	3814.4	3745.7	3658.5	3553.9	3454.4
-40°	3483.3	3520.5	3542.9	3550.4	3542.9	3520.5	3483.3	3431.9	3366.5	3287.9	3200.4
-42.5°	3203.9	3235.9	3255.2	3261.7	3255.2	3235.9	3203.9	3159.4	3102.9	3034.7	2905.4
-45°	2860.7	2932.4	2975.7	2990.1	2975.7	2932.4	2860.7	2761.1	2634.3	2481.1	2297.3
-47.5°	2183.6	2263.4	2311.4	2327.5	2311.4	2263.4	2183.6	2072.6	1931.2	1760.2	1560.5
-50°	1502.1	1514.0	1521.2	1523.6	1521.2	1514.0	1502.1	1485.4	1464.2	1438.6	1408.6
-52.5°	1368.5	1381.7	1389.6	1392.3	1389.6	1381.7	1368.5	1350.2	1326.7	1298.3	1265.1
-55°	1207.8	1222.3	1231.0	1233.9	1231.0	1222.3	1207.8	1187.7	1161.9	1130.6	1094.0
-57.5°	1020.7	1033.4	1041.0	1043.5	1041.0	1033.4	1020.7	1003.1	980.6	953.3	921.3
-60°	844.3	853.6	859.1	861.0	859.1	853.6	844.3	831.5	815.0	795.0	771.5
-62.5°	698.3	706.8	712.0	713.7	712.0	706.8	698.3	686.3	671.0	652.4	630.6
-65°	548.8	556.3	560.8	562.3	560.8	556.3	548.8	538.3	524.8	508.5	489.3
-67.5°	404.5	409.8	412.9	414.0	412.9	409.8	404.5	397.1	387.7	376.2	362.7
-70°	288.1	292.9	295.7	296.7	295.7	292.9	288.1	281.5	273.0	262.6	250.4
-72.5°	170.5	173.8	175.7	176.4	175.7	173.8	170.5	166.0	160.1	153.0	144.6
-75°	78.7	80.1	80.9	81.2	80.9	80.1	78.7	76.7	74.2	71.1	67.6
-77.5°	32.5	32.8	33.0	33.1	33.0	32.8	32.5	32.0	31.4	30.7	29.8
-80°	18.8	18.9	19.0	19.0	19.0	18.9	18.8	18.6	18.3	18.0	17.7
-82.5°	11.9	11.9	12.0	12.0	12.0	11.9	11.9	11.8	11.6	11.5	11.3
-85°	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.9	6.8	6.7
-87.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.8
-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: P731200 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	3.7	3.6	3.5	3.5	3.4	3.3	3.2	3.1	2.9	2.8
85°	6.6	6.5	6.4	6.3	6.2	6.1	5.9	5.8	5.6	5.4	5.2
82.5°	11.1	10.9	10.6	10.3	10.0	9.6	9.3	8.9	8.5	8.0	7.6
80°	17.3	16.8	16.4	15.8	15.2	14.6	13.9	13.2	12.4	11.7	11.1
77.5°	28.8	27.7	26.4	25.0	23.5	21.9	20.2	18.7	17.7	16.7	15.6
75°	63.4	58.8	53.6	48.0	41.8	35.2	31.6	29.4	27.1	24.6	22.1
72.5°	135.0	124.2	112.2	99.1	84.8	75.3	67.0	58.1	48.8	39.0	31.8
70°	236.4	220.7	203.2	184.1	166.1	148.4	129.6	109.5	88.4	73.6	61.9
67.5°	347.2	329.8	310.5	289.1	265.6	240.4	213.4	184.8	159.1	134.1	107.9
65°	467.3	442.6	415.2	391.3	365.6	338.0	308.6	277.0	243.3	207.9	172.1
62.5°	605.6	577.6	546.8	513.6	477.5	438.9	401.1	366.6	330.2	292.1	251.3
60°	744.6	714.4	680.2	642.7	602.2	558.8	513.6	465.6	415.2	373.3	329.8
57.5°	884.7	847.0	810.4	770.4	727.3	680.2	629.7	576.3	521.1	463.7	406.0
55°	1052.2	1007.0	957.5	903.5	848.3	798.0	744.6	687.5	626.8	563.3	498.7
52.5°	1225.8	1174.8	1118.6	1057.4	993.6	926.1	855.8	795.0	731.2	663.3	592.4
50°	1370.7	1324.6	1273.9	1215.7	1144.5	1068.5	990.4	909.3	831.5	760.2	685.5
47.5°	1492.5	1451.2	1405.7	1349.0	1285.1	1213.7	1127.4	1037.0	946.2	853.6	774.8
45°	2051.3	1777.5	1516.0	1462.9	1406.0	1335.9	1259.0	1167.2	1066.2	964.8	861.0
42.5°	2686.2	2442.5	2143.7	1794.3	1506.8	1442.1	1370.3	1284.4	1187.3	1076.1	964.8
40°	3103.3	2995.6	2716.9	2408.0	2025.5	1602.8	1464.1	1387.6	1292.9	1187.3	1066.2
37.5°	3342.9	3222.1	3095.9	2917.4	2565.5	2166.1	1694.8	1471.4	1387.6	1284.4	1167.2
35°	3597.3	3456.0	3312.1	3164.1	3010.4	2645.2	2213.4	1694.8	1464.1	1370.3	1259.0
32.5°	3893.2	3718.3	3533.2	3368.6	3198.7	3027.2	2645.2	2166.1	1602.8	1442.1	1335.9
30°	4274.4	4024.5	3792.4	3577.3	3387.6	3198.7	3010.4	2565.5	2025.5	1506.8	1406.0
27.5°	4864.3	4385.7	4093.1	3817.4	3577.3	3368.6	3164.1	2917.4	2408.0	1794.3	1462.9
25°	5679.2	4997.1	4449.6	4093.1	3792.4	3533.2	3312.1	3095.9	2716.9	2143.7	1516.0
22.5°	6889.1	5788.5	4997.1	4385.7	4024.5	3718.3	3456.0	3222.1	2995.6	2442.5	1777.5
20°	9526.1	6889.1	5679.2	4864.3	4274.4	3893.2	3597.3	3342.9	3103.3	2686.2	2051.3
17.5°	14333.3	9180.1	6421.8	5356.1	4603.7	4101.3	3744.9	3454.4	3200.4	2905.4	2297.3
15°	20062.3	12628.6	8159.7	5975.6	4969.0	4290.3	3876.1	3553.9	3287.9	3034.7	2481.1
12.5°	27761.3	16982.3	9856.4	6519.0	5330.2	4517.3	4017.9	3658.5	3366.5	3102.9	2634.3
10°	34868.4	21742.1	12690.8	7825.7	5749.1	4762.5	4144.0	3745.7	3431.9	3159.4	2761.1
7.5°	42196.4	26595.3	15403.4	8873.6	6082.4	4957.0	4243.8	3814.4	3483.3	3203.9	2860.7
5°	47640.6	30173.2	17391.7	9638.3	6324.8	5098.1	4316.0	3864.1	3520.5	3235.9	2932.4
2.5°	51000.0	32368.2	18606.4	10103.9	6472.0	5183.6	4359.7	3894.2	3542.9	3255.2	2975.7
0°	52136.3	33108.3	19015.0	10260.3	6521.4	5212.3	4374.3	3904.2	3550.4	3261.7	2990.1
-2.5°	51000.0	32368.2	18606.4	10103.9	6472.0	5183.6	4359.7	3894.2	3542.9	3255.2	2975.7
-5°	47640.6	30173.2	17391.7	9638.3	6324.8	5098.1	4316.0	3864.1	3520.5	3235.9	2932.4
-7.5°	42196.4	26595.3	15403.4	8873.6	6082.4	4957.0	4243.8	3814.4	3483.3	3203.9	2860.7
-10°	34868.4	21742.1	12690.8	7825.7	5749.1	4762.5	4144.0	3745.7	3431.9	3159.4	2761.1
-12.5°	27761.3	16982.3	9856.4	6519.0	5330.2	4517.3	4017.9	3658.5	3366.5	3102.9	2634.3
-15°	20062.3	12628.6	8159.7	5975.6	4969.0	4290.3	3876.1	3553.9	3287.9	3034.7	2481.1
-17.5°	14333.3	9180.1	6421.8	5356.1	4603.7	4101.3	3744.9	3454.4	3200.4	2905.4	2297.3
-20°	9526.1	6889.1	5679.2	4864.3	4274.4	3893.2	3597.3	3342.9	3103.3	2686.2	2051.3



REPORT NUMBER: P731200 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	6889.1	5788.5	4997.1	4385.7	4024.5	3718.3	3456.0	3222.1	2995.6	2442.5	1777.5
-25°	5679.2	4997.1	4449.6	4093.1	3792.4	3533.2	3312.1	3095.9	2716.9	2143.7	1516.0
-27.5°	4864.3	4385.7	4093.1	3817.4	3577.3	3368.6	3164.1	2917.4	2408.0	1794.3	1462.9
-30°	4274.4	4024.5	3792.4	3577.3	3387.6	3198.7	3010.4	2565.5	2025.5	1506.8	1406.0
-32.5°	3893.2	3718.3	3533.2	3368.6	3198.7	3027.2	2645.2	2166.1	1602.8	1442.1	1335.9
-35°	3597.3	3456.0	3312.1	3164.1	3010.4	2645.2	2213.4	1694.8	1464.1	1370.3	1259.0
-37.5°	3342.9	3222.1	3095.9	2917.4	2565.5	2166.1	1694.8	1471.4	1387.6	1284.4	1167.2
-40°	3103.3	2995.6	2716.9	2408.0	2025.5	1602.8	1464.1	1387.6	1292.9	1187.3	1066.2
-42.5°	2686.2	2442.5	2143.7	1794.3	1506.8	1442.1	1370.3	1284.4	1187.3	1076.1	964.8
-45°	2051.3	1777.5	1516.0	1462.9	1406.0	1335.9	1259.0	1167.2	1066.2	964.8	861.0
-47.5°	1492.5	1451.2	1405.7	1349.0	1285.1	1213.7	1127.4	1037.0	946.2	853.6	774.8
-50°	1370.7	1324.6	1273.9	1215.7	1144.5	1068.5	990.4	909.3	831.5	760.2	685.5
-52.5°	1225.8	1174.8	1118.6	1057.4	993.6	926.1	855.8	795.0	731.2	663.3	592.4
-55°	1052.2	1007.0	957.5	903.5	848.3	798.0	744.6	687.5	626.8	563.3	498.7
-57.5°	884.7	847.0	810.4	770.4	727.3	680.2	629.7	576.3	521.1	463.7	406.0
-60°	744.6	714.4	680.2	642.7	602.2	558.8	513.6	465.6	415.2	373.3	329.8
-62.5°	605.6	577.6	546.8	513.6	477.5	438.9	401.1	366.6	330.2	292.1	251.3
-65°	467.3	442.6	415.2	391.3	365.6	338.0	308.6	277.0	243.3	207.9	172.1
-67.5°	347.2	329.8	310.5	289.1	265.6	240.4	213.4	184.8	159.1	134.1	107.9
-70°	236.4	220.7	203.2	184.1	166.1	148.4	129.6	109.5	88.4	73.6	61.9
-72.5°	135.0	124.2	112.2	99.1	84.8	75.3	67.0	58.1	48.8	39.0	31.8
-75°	63.4	58.8	53.6	48.0	41.8	35.2	31.6	29.4	27.1	24.6	22.1
-77.5°	28.8	27.7	26.4	25.0	23.5	21.9	20.2	18.7	17.7	16.7	15.6
-80°	17.3	16.8	16.4	15.8	15.2	14.6	13.9	13.2	12.4	11.7	11.1
-82.5°	11.1	10.9	10.6	10.3	10.0	9.6	9.3	8.9	8.5	8.0	7.6
-85°	6.6	6.5	6.4	6.3	6.2	6.1	5.9	5.8	5.6	5.4	5.2
-87.5°	3.8	3.7	3.6	3.5	3.5	3.4	3.3	3.2	3.1	2.9	2.8
-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: P731200 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-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°	2.7	2.6	2.4	2.3	2.1	2.0	1.8	1.7	1.5	1.4	1.2
85°	5.1	4.9	4.6	4.4	4.2	4.0	3.7	3.4	3.1	2.7	2.4
82.5°	7.1	6.8	6.5	6.2	5.8	5.5	5.1	4.8	4.4	4.1	3.6
80°	10.5	9.8	9.1	8.4	7.7	7.0	6.5	6.1	5.6	5.1	4.6
77.5°	14.5	13.4	12.2	11.3	10.4	9.4	8.5	7.5	6.7	6.1	5.5
75°	19.4	17.8	16.4	14.9	13.4	11.9	10.7	9.6	8.4	7.2	6.4
72.5°	28.7	25.5	22.1	18.8	17.0	15.2	13.3	11.6	10.2	8.8	7.4
70°	49.6	36.9	30.4	26.4	22.3	18.6	16.4	14.3	12.1	10.4	8.8
67.5°	80.9	66.6	51.8	36.6	29.5	24.8	20.0	17.1	14.6	12.1	10.2
65°	141.7	110.2	79.4	62.5	45.1	31.4	26.1	20.6	17.1	14.3	11.6
62.5°	209.0	167.5	131.7	94.8	69.0	49.4	32.0	26.1	20.0	16.4	13.3
60°	284.3	236.4	187.0	144.6	103.4	71.1	49.4	31.4	24.8	18.6	15.2
57.5°	357.0	306.3	253.0	198.0	149.0	103.4	69.0	45.1	29.5	22.3	17.0
55°	431.7	373.4	317.2	258.6	198.0	144.6	94.8	62.5	36.6	26.4	18.8
52.5°	519.9	445.8	378.9	317.2	253.0	187.0	131.7	79.4	51.8	30.4	22.1
50°	607.0	527.0	445.8	373.4	306.3	236.4	167.5	110.2	66.6	36.9	25.5
47.5°	692.9	607.0	519.9	431.7	357.0	284.3	209.0	141.7	80.9	49.6	28.7
45°	774.8	685.5	592.4	498.7	406.0	329.8	251.3	172.1	107.9	61.9	31.8
42.5°	853.6	760.2	663.3	563.3	463.7	373.3	292.1	207.9	134.1	73.6	39.0
40°	946.2	831.5	731.2	626.8	521.1	415.2	330.2	243.3	159.1	88.4	48.8
37.5°	1037.0	909.3	795.0	687.5	576.3	465.6	366.6	277.0	184.8	109.5	58.1
35°	1127.4	990.4	855.8	744.6	629.7	513.6	401.1	308.6	213.4	129.6	67.0
32.5°	1213.7	1068.5	926.1	798.0	680.2	558.8	438.9	338.0	240.4	148.4	75.3
30°	1285.1	1144.5	993.6	848.3	727.3	602.2	477.5	365.6	265.6	166.1	84.8
27.5°	1349.0	1215.7	1057.4	903.5	770.4	642.7	513.6	391.3	289.1	184.1	99.1
25°	1405.7	1273.9	1118.6	957.5	810.4	680.2	546.8	415.2	310.5	203.2	112.2
22.5°	1451.2	1324.6	1174.8	1007.0	847.0	714.4	577.6	442.6	329.8	220.7	124.2
20°	1492.5	1370.7	1225.8	1052.2	884.7	744.6	605.6	467.3	347.2	236.4	135.0
17.5°	1560.5	1408.6	1265.1	1094.0	921.3	771.5	630.6	489.3	362.7	250.4	144.6
15°	1760.2	1438.6	1298.3	1130.6	953.3	795.0	652.4	508.5	376.2	262.6	153.0
12.5°	1931.2	1464.2	1326.7	1161.9	980.6	815.0	671.0	524.8	387.7	273.0	160.1
10°	2072.6	1485.4	1350.2	1187.7	1003.1	831.5	686.3	538.3	397.1	281.5	166.0
7.5°	2183.6	1502.1	1368.5	1207.8	1020.7	844.3	698.3	548.8	404.5	288.1	170.5
5°	2263.4	1514.0	1381.7	1222.3	1033.4	853.6	706.8	556.3	409.8	292.9	173.8
2.5°	2311.4	1521.2	1389.6	1231.0	1041.0	859.1	712.0	560.8	412.9	295.7	175.7
0°	2327.5	1523.6	1392.3	1233.9	1043.5	861.0	713.7	562.3	414.0	296.7	176.4
-2.5°	2311.4	1521.2	1389.6	1231.0	1041.0	859.1	712.0	560.8	412.9	295.7	175.7
-5°	2263.4	1514.0	1381.7	1222.3	1033.4	853.6	706.8	556.3	409.8	292.9	173.8
-7.5°	2183.6	1502.1	1368.5	1207.8	1020.7	844.3	698.3	548.8	404.5	288.1	170.5
-10°	2072.6	1485.4	1350.2	1187.7	1003.1	831.5	686.3	538.3	397.1	281.5	166.0
-12.5°	1931.2	1464.2	1326.7	1161.9	980.6	815.0	671.0	524.8	387.7	273.0	160.1
-15°	1760.2	1438.6	1298.3	1130.6	953.3	795.0	652.4	508.5	376.2	262.6	153.0
-17.5°	1560.5	1408.6	1265.1	1094.0	921.3	771.5	630.6	489.3	362.7	250.4	144.6
-20°	1492.5	1370.7	1225.8	1052.2	884.7	744.6	605.6	467.3	347.2	236.4	135.0



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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°	1451.2	1324.6	1174.8	1007.0	847.0	714.4	577.6	442.6	329.8	220.7	124.2
-25°	1405.7	1273.9	1118.6	957.5	810.4	680.2	546.8	415.2	310.5	203.2	112.2
-27.5°	1349.0	1215.7	1057.4	903.5	770.4	642.7	513.6	391.3	289.1	184.1	99.1
-30°	1285.1	1144.5	993.6	848.3	727.3	602.2	477.5	365.6	265.6	166.1	84.8
-32.5°	1213.7	1068.5	926.1	798.0	680.2	558.8	438.9	338.0	240.4	148.4	75.3
-35°	1127.4	990.4	855.8	744.6	629.7	513.6	401.1	308.6	213.4	129.6	67.0
-37.5°	1037.0	909.3	795.0	687.5	576.3	465.6	366.6	277.0	184.8	109.5	58.1
-40°	946.2	831.5	731.2	626.8	521.1	415.2	330.2	243.3	159.1	88.4	48.8
-42.5°	853.6	760.2	663.3	563.3	463.7	373.3	292.1	207.9	134.1	73.6	39.0
-45°	774.8	685.5	592.4	498.7	406.0	329.8	251.3	172.1	107.9	61.9	31.8
-47.5°	692.9	607.0	519.9	431.7	357.0	284.3	209.0	141.7	80.9	49.6	28.7
-50°	607.0	527.0	445.8	373.4	306.3	236.4	167.5	110.2	66.6	36.9	25.5
-52.5°	519.9	445.8	378.9	317.2	253.0	187.0	131.7	79.4	51.8	30.4	22.1
-55°	431.7	373.4	317.2	258.6	198.0	144.6	94.8	62.5	36.6	26.4	18.8
-57.5°	357.0	306.3	253.0	198.0	149.0	103.4	69.0	45.1	29.5	22.3	17.0
-60°	284.3	236.4	187.0	144.6	103.4	71.1	49.4	31.4	24.8	18.6	15.2
-62.5°	209.0	167.5	131.7	94.8	69.0	49.4	32.0	26.1	20.0	16.4	13.3
-65°	141.7	110.2	79.4	62.5	45.1	31.4	26.1	20.6	17.1	14.3	11.6
-67.5°	80.9	66.6	51.8	36.6	29.5	24.8	20.0	17.1	14.6	12.1	10.2
-70°	49.6	36.9	30.4	26.4	22.3	18.6	16.4	14.3	12.1	10.4	8.8
-72.5°	28.7	25.5	22.1	18.8	17.0	15.2	13.3	11.6	10.2	8.8	7.4
-75°	19.4	17.8	16.4	14.9	13.4	11.9	10.7	9.6	8.4	7.2	6.4
-77.5°	14.5	13.4	12.2	11.3	10.4	9.4	8.5	7.5	6.7	6.1	5.5
-80°	10.5	9.8	9.1	8.4	7.7	7.0	6.5	6.1	5.6	5.1	4.6
-82.5°	7.1	6.8	6.5	6.2	5.8	5.5	5.1	4.8	4.4	4.1	3.6
-85°	5.1	4.9	4.6	4.4	4.2	4.0	3.7	3.4	3.1	2.7	2.4
-87.5°	2.7	2.6	2.4	2.3	2.1	2.0	1.8	1.7	1.5	1.4	1.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.9	0.7	0.5	0.3	0.2	0.0
85°	2.1	1.7	1.4	1.0	0.7	0.3	0.0
82.5°	3.1	2.6	2.1	1.6	1.0	0.5	0.0
80°	4.1	3.4	2.8	2.1	1.4	0.7	0.0
77.5°	4.9	4.2	3.4	2.6	1.7	0.9	0.0
75°	5.6	4.9	4.1	3.1	2.1	1.0	0.0
72.5°	6.4	5.5	4.6	3.6	2.4	1.2	0.0
70°	7.2	6.1	5.1	4.1	2.7	1.4	0.0
67.5°	8.4	6.7	5.6	4.4	3.1	1.5	0.0
65°	9.6	7.5	6.1	4.8	3.4	1.7	0.0
62.5°	10.7	8.5	6.5	5.1	3.7	1.8	0.0
60°	11.9	9.4	7.0	5.5	4.0	2.0	0.0
57.5°	13.4	10.4	7.7	5.8	4.2	2.1	0.0
55°	14.9	11.3	8.4	6.2	4.4	2.3	0.0
52.5°	16.4	12.2	9.1	6.5	4.6	2.4	0.0
50°	17.8	13.4	9.8	6.8	4.9	2.6	0.0
47.5°	19.4	14.5	10.5	7.1	5.1	2.7	0.0
45°	22.1	15.6	11.1	7.6	5.2	2.8	0.0
42.5°	24.6	16.7	11.7	8.0	5.4	2.9	0.0
40°	27.1	17.7	12.4	8.5	5.6	3.1	0.0
37.5°	29.4	18.7	13.2	8.9	5.8	3.2	0.0
35°	31.6	20.2	13.9	9.3	5.9	3.3	0.0
32.5°	35.2	21.9	14.6	9.6	6.1	3.4	0.0
30°	41.8	23.5	15.2	10.0	6.2	3.5	0.0
27.5°	48.0	25.0	15.8	10.3	6.3	3.5	0.0
25°	53.6	26.4	16.4	10.6	6.4	3.6	0.0
22.5°	58.8	27.7	16.8	10.9	6.5	3.7	0.0
20°	63.4	28.8	17.3	11.1	6.6	3.8	0.0
17.5°	67.6	29.8	17.7	11.3	6.7	3.8	0.0
15°	71.1	30.7	18.0	11.5	6.8	3.9	0.0
12.5°	74.2	31.4	18.3	11.6	6.9	3.9	0.0
10°	76.7	32.0	18.6	11.8	6.9	3.9	0.0
7.5°	78.7	32.5	18.8	11.9	6.9	4.0	0.0
5°	80.1	32.8	18.9	11.9	7.0	4.0	0.0
2.5°	80.9	33.0	19.0	12.0	7.0	4.0	0.0
0°	81.2	33.1	19.0	12.0	7.0	4.0	0.0
-2.5°	80.9	33.0	19.0	12.0	7.0	4.0	0.0
-5°	80.1	32.8	18.9	11.9	7.0	4.0	0.0
-7.5°	78.7	32.5	18.8	11.9	6.9	4.0	0.0
-10°	76.7	32.0	18.6	11.8	6.9	3.9	0.0
-12.5°	74.2	31.4	18.3	11.6	6.9	3.9	0.0
-15°	71.1	30.7	18.0	11.5	6.8	3.9	0.0
-17.5°	67.6	29.8	17.7	11.3	6.7	3.8	0.0
-20°	63.4	28.8	17.3	11.1	6.6	3.8	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	58.8	27.7	16.8	10.9	6.5	3.7	0.0
-25°	53.6	26.4	16.4	10.6	6.4	3.6	0.0
-27.5°	48.0	25.0	15.8	10.3	6.3	3.5	0.0
-30°	41.8	23.5	15.2	10.0	6.2	3.5	0.0
-32.5°	35.2	21.9	14.6	9.6	6.1	3.4	0.0
-35°	31.6	20.2	13.9	9.3	5.9	3.3	0.0
-37.5°	29.4	18.7	13.2	8.9	5.8	3.2	0.0
-40°	27.1	17.7	12.4	8.5	5.6	3.1	0.0
-42.5°	24.6	16.7	11.7	8.0	5.4	2.9	0.0
-45°	22.1	15.6	11.1	7.6	5.2	2.8	0.0
-47.5°	19.4	14.5	10.5	7.1	5.1	2.7	0.0
-50°	17.8	13.4	9.8	6.8	4.9	2.6	0.0
-52.5°	16.4	12.2	9.1	6.5	4.6	2.4	0.0
-55°	14.9	11.3	8.4	6.2	4.4	2.3	0.0
-57.5°	13.4	10.4	7.7	5.8	4.2	2.1	0.0
-60°	11.9	9.4	7.0	5.5	4.0	2.0	0.0
-62.5°	10.7	8.5	6.5	5.1	3.7	1.8	0.0
-65°	9.6	7.5	6.1	4.8	3.4	1.7	0.0
-67.5°	8.4	6.7	5.6	4.4	3.1	1.5	0.0
-70°	7.2	6.1	5.1	4.1	2.7	1.4	0.0
-72.5°	6.4	5.5	4.6	3.6	2.4	1.2	0.0
-75°	5.6	4.9	4.1	3.1	2.1	1.0	0.0
-77.5°	4.9	4.2	3.4	2.6	1.7	0.9	0.0
-80°	4.1	3.4	2.8	2.1	1.4	0.7	0.0
-82.5°	3.1	2.6	2.1	1.6	1.0	0.5	0.0
-85°	2.1	1.7	1.4	1.0	0.7	0.3	0.0
-87.5°	1.0	0.9	0.7	0.5	0.3	0.2	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

