

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: P731226 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-70-5S-HEG**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731226 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-5)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-08-0320N-57-70-5S-HEG
Description: EPHEBUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 5S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

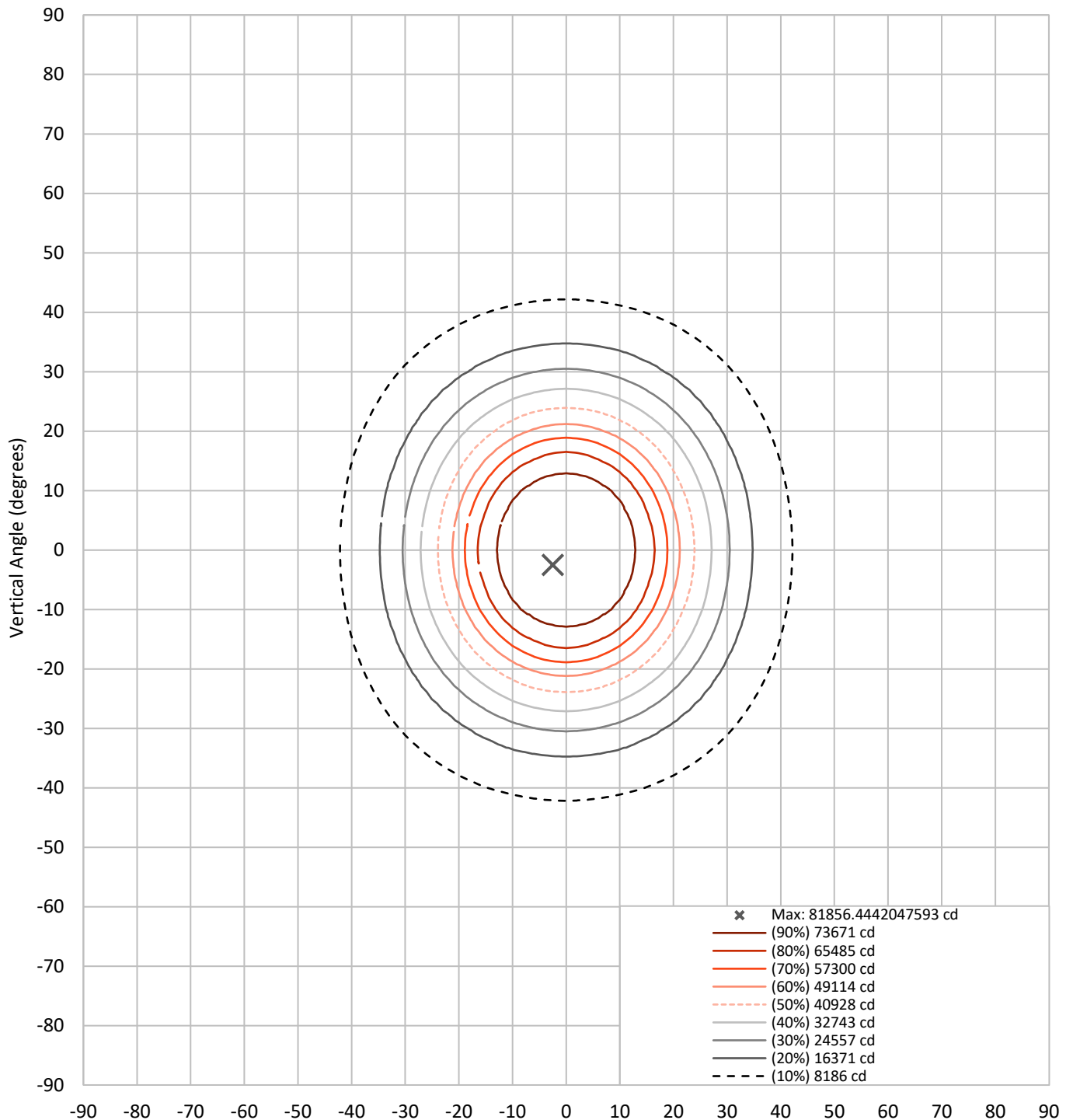
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	59832.2 lumens	Max Intensity:	81856.4 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x -2.5°V
Efficacy:	173.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	47.6°H x 47.6°V	Field Angle (10%):	84.3°H x 84.3°V
Beam Lumens:	33565.8 lumens	Field Lumens:	55748.7 lumens
Beam Efficiency:	56.1%	Field Efficiency:	93.2%

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





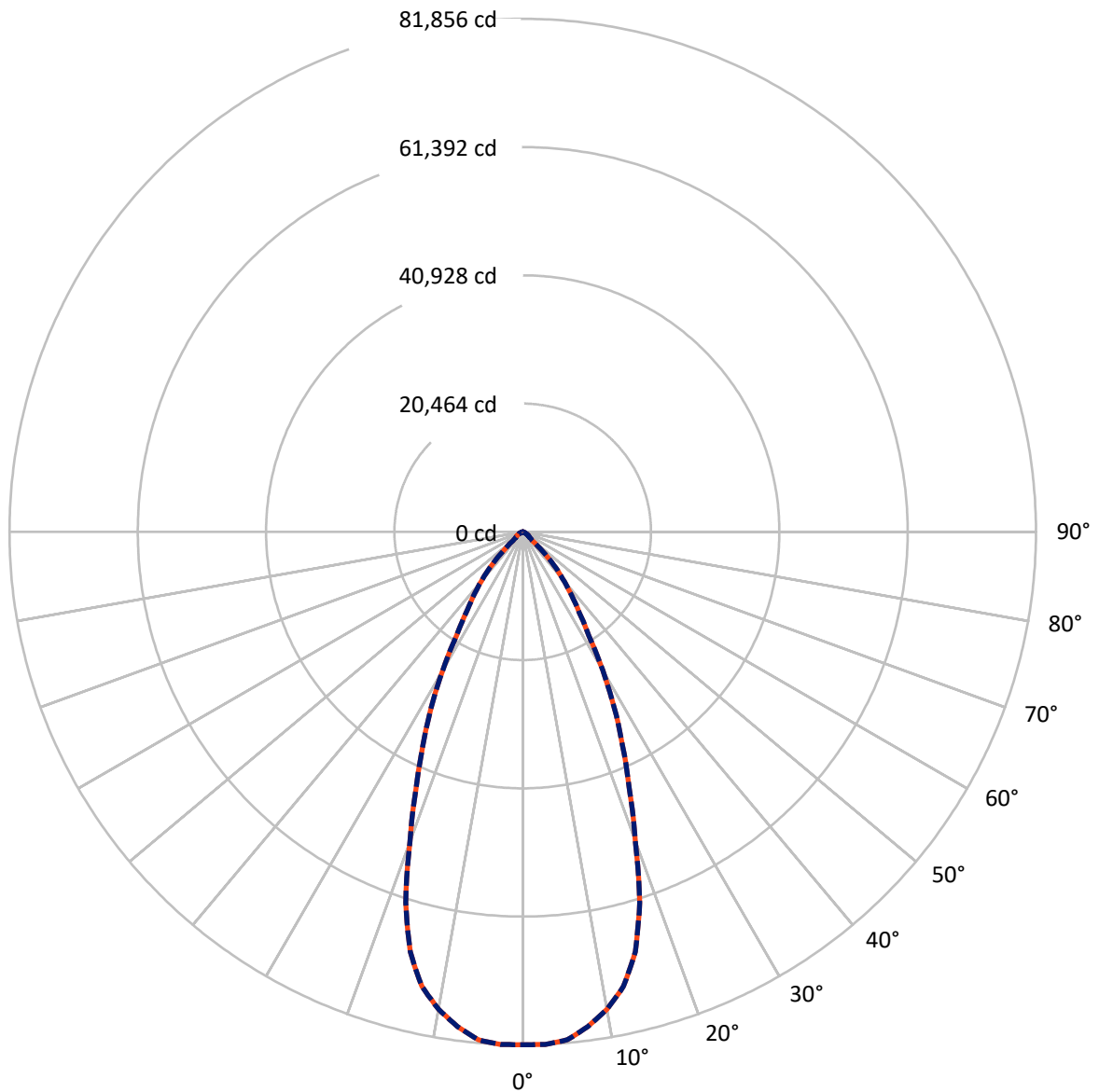
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Lumen Table

90																
80	0.1	0.6		1.9		4.0		5.1		4.0		1.9		0.6		0.1
70																
60	0.3	0.3	1.0	2.6	5.3	8.6	11.7	13.4	13.4	11.7	8.6	5.3	2.6	1.0	0.3	0.3
50		0.8	3.0	8.2	16.1	24.6	31.0	34.4	34.4	31.0	24.6	16.1	8.2	3.0	0.8	
40	0.6	1.6	6.8	17.1	29.5	53.2	108.4	152.7	152.7	108.4	53.2	29.5	17.1	6.8	1.6	0.6
30		2.8	11.4	25.6	74.3	224.8	379.5	486.3	486.3	379.5	224.8	74.3	25.6	11.4	2.8	
20	1.1	4.2	15.8	42.1	204.2	464.7	831.6	1116.2	1116.2	831.6	464.7	204.2	42.1	15.8	4.2	1.1
10		5.3	18.6	81.3	323.9	782.6	1454.4	1981.4	1981.4	1454.4	782.6	323.9	81.3	18.6	5.3	
0	1.4	5.9	20.0	111.1	403.1	1019.7	1923.7	2401.3	2401.3	1923.7	1019.7	403.1	111.1	20.0	5.9	1.4
-10		5.9	20.0	111.1	403.1	1019.7	1923.7	2401.3	2401.3	1923.7	1019.7	403.1	111.1	20.0	5.9	
-20	1.1	5.3	18.6	81.3	323.9	782.6	1454.4	1981.4	1981.4	1454.4	782.6	323.9	81.3	18.6	5.3	1.1
-30		4.2	15.8	42.1	204.2	464.7	831.6	1116.2	1116.2	831.6	464.7	204.2	42.1	15.8	4.2	
-40	0.6	2.8	11.4	25.6	74.3	224.8	379.5	486.3	486.3	379.5	224.8	74.3	25.6	11.4	2.8	0.6
-50		1.6	6.8	17.1	29.5	53.2	108.4	152.7	152.7	108.4	53.2	29.5	17.1	6.8	1.6	
-60	0.3	0.8	3.0	8.2	16.1	24.6	31.0	34.4	34.4	31.0	24.6	16.1	8.2	3.0	0.8	0.3
-70		0.3	1.0	2.6	5.3	8.6	11.7	13.4	13.4	11.7	8.6	5.3	2.6	1.0	0.3	
-80																
-90	0.1	0.6		1.9		4.0		5.1		4.0		1.9		0.6		0.1

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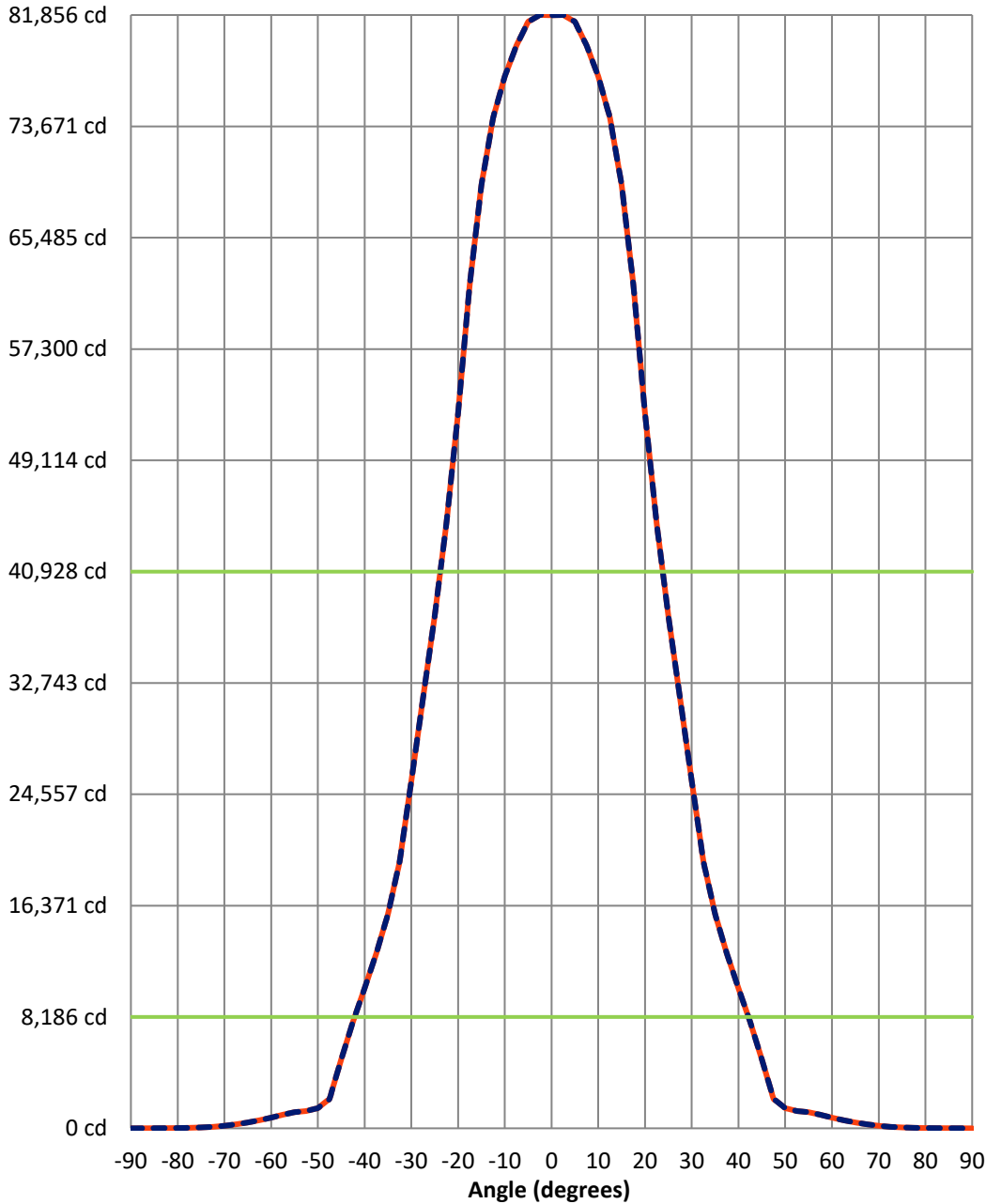
Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg - - - Horizontal Distribution Through -2.5-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 47.6°
 V Angle: 47.6°
 Lumens: 33565.8
 Efficiency: 56.1%

Field:
 H Angle: 84.3°
 V Angle: 84.3°
 Lumens: 55748.7
 Efficiency: 93.2%

Spill:
 Lumens: 4083.5
 Efficiency: 6.8%

- Vertical Distribution through -2.5-Deg
- - - Horizontal Distribution through -2.5-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	4.6	5.0
80°	0.0	0.7	1.4	2.1	2.8	3.4	4.1	4.8	5.4	6.0	6.7
77.5°	0.0	0.9	1.7	2.6	3.4	4.3	5.1	5.9	6.7	7.5	8.4
75°	0.0	1.0	2.1	3.1	4.1	5.1	6.1	7.1	8.1	9.3	10.5
72.5°	0.0	1.2	2.4	3.6	4.8	5.9	7.1	8.3	9.7	11.1	12.5
70°	0.0	1.4	2.7	4.1	5.4	6.7	8.1	9.7	11.3	13.0	15.2
67.5°	0.0	1.5	3.1	4.6	6.0	7.5	9.3	11.1	13.0	15.5	18.0
65°	0.0	1.7	3.4	5.0	6.7	8.4	10.5	12.5	15.2	18.0	21.7
62.5°	0.0	1.8	3.7	5.5	7.3	9.4	11.6	14.2	17.3	21.0	27.9
60°	0.0	2.0	4.0	5.9	7.9	10.3	12.8	16.1	19.5	26.5	33.9
57.5°	0.0	2.1	4.3	6.4	8.6	11.3	14.3	17.9	23.6	31.8	43.0
55°	0.0	2.3	4.6	6.8	9.3	12.2	15.8	19.7	28.3	37.9	53.4
52.5°	0.0	2.4	4.8	7.2	10.0	13.1	17.3	23.4	32.7	47.0	63.5
50°	0.0	2.6	5.1	7.6	10.7	14.3	18.7	27.2	38.1	55.8	77.3
47.5°	0.0	2.7	5.4	8.0	11.4	15.4	20.3	30.8	45.7	64.4	91.1
45°	0.0	2.8	5.6	8.5	12.0	16.5	23.4	34.4	53.0	76.3	104.4
42.5°	0.0	2.9	5.8	8.9	12.6	17.6	26.3	39.4	60.1	87.8	127.1
40°	0.0	3.1	6.1	9.4	13.3	18.6	29.0	45.2	67.8	98.7	150.5
37.5°	0.0	3.2	6.3	9.8	14.1	19.6	31.7	50.8	77.0	111.8	172.8
35°	0.0	3.3	6.5	10.2	14.8	21.3	34.1	56.1	85.8	130.7	196.8
32.5°	0.0	3.4	6.7	10.5	15.5	23.2	37.0	61.0	94.1	148.6	224.0
30°	0.0	3.5	6.9	10.9	16.1	25.0	41.0	66.2	101.8	165.3	249.4
27.5°	0.0	3.5	7.0	11.2	16.7	26.7	44.7	72.4	111.4	180.8	273.1
25°	0.0	3.6	7.2	11.5	17.3	28.2	48.1	78.2	124.0	198.5	295.2
22.5°	0.0	3.7	7.3	11.8	17.7	29.7	51.2	83.4	135.6	216.3	320.2
20°	0.0	3.8	7.4	12.0	18.2	30.9	54.0	88.2	146.0	232.4	342.7
17.5°	0.0	3.8	7.5	12.2	18.6	32.1	56.4	92.4	155.2	246.7	362.7
15°	0.0	3.9	7.6	12.4	18.9	33.0	58.6	96.0	163.3	259.2	380.2
12.5°	0.0	3.9	7.7	12.5	19.2	33.9	60.4	99.2	170.1	269.8	395.1
10°	0.0	3.9	7.8	12.7	19.5	34.6	61.9	101.7	175.7	278.5	407.3
7.5°	0.0	4.0	7.8	12.8	19.7	35.1	63.1	103.7	180.1	285.3	416.9
5°	0.0	4.0	7.9	12.8	19.8	35.5	63.9	105.2	183.3	290.2	423.7
2.5°	0.0	4.0	7.9	12.9	19.9	35.7	64.4	106.0	185.2	293.1	427.8
0°	0.0	4.0	7.9	12.9	19.9	35.8	64.6	106.3	185.8	294.1	429.2
-2.5°	0.0	4.0	7.9	12.9	19.9	35.7	64.4	106.0	185.2	293.1	427.8
-5°	0.0	4.0	7.9	12.8	19.8	35.5	63.9	105.2	183.3	290.2	423.7
-7.5°	0.0	4.0	7.8	12.8	19.7	35.1	63.1	103.7	180.1	285.3	416.9
-10°	0.0	3.9	7.8	12.7	19.5	34.6	61.9	101.7	175.7	278.5	407.3
-12.5°	0.0	3.9	7.7	12.5	19.2	33.9	60.4	99.2	170.1	269.8	395.1
-15°	0.0	3.9	7.6	12.4	18.9	33.0	58.6	96.0	163.3	259.2	380.2
-17.5°	0.0	3.8	7.5	12.2	18.6	32.1	56.4	92.4	155.2	246.7	362.7
-20°	0.0	3.8	7.4	12.0	18.2	30.9	54.0	88.2	146.0	232.4	342.7



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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	3.7	7.3	11.8	17.7	29.7	51.2	83.4	135.6	216.3	320.2
-25°	0.0	3.6	7.2	11.5	17.3	28.2	48.1	78.2	124.0	198.5	295.2
-27.5°	0.0	3.5	7.0	11.2	16.7	26.7	44.7	72.4	111.4	180.8	273.1
-30°	0.0	3.5	6.9	10.9	16.1	25.0	41.0	66.2	101.8	165.3	249.4
-32.5°	0.0	3.4	6.7	10.5	15.5	23.2	37.0	61.0	94.1	148.6	224.0
-35°	0.0	3.3	6.5	10.2	14.8	21.3	34.1	56.1	85.8	130.7	196.8
-37.5°	0.0	3.2	6.3	9.8	14.1	19.6	31.7	50.8	77.0	111.8	172.8
-40°	0.0	3.1	6.1	9.4	13.3	18.6	29.0	45.2	67.8	98.7	150.5
-42.5°	0.0	2.9	5.8	8.9	12.6	17.6	26.3	39.4	60.1	87.8	127.1
-45°	0.0	2.8	5.6	8.5	12.0	16.5	23.4	34.4	53.0	76.3	104.4
-47.5°	0.0	2.7	5.4	8.0	11.4	15.4	20.3	30.8	45.7	64.4	91.1
-50°	0.0	2.6	5.1	7.6	10.7	14.3	18.7	27.2	38.1	55.8	77.3
-52.5°	0.0	2.4	4.8	7.2	10.0	13.1	17.3	23.4	32.7	47.0	63.5
-55°	0.0	2.3	4.6	6.8	9.3	12.2	15.8	19.7	28.3	37.9	53.4
-57.5°	0.0	2.1	4.3	6.4	8.6	11.3	14.3	17.9	23.6	31.8	43.0
-60°	0.0	2.0	4.0	5.9	7.9	10.3	12.8	16.1	19.5	26.5	33.9
-62.5°	0.0	1.8	3.7	5.5	7.3	9.4	11.6	14.2	17.3	21.0	27.9
-65°	0.0	1.7	3.4	5.0	6.7	8.4	10.5	12.5	15.2	18.0	21.7
-67.5°	0.0	1.5	3.1	4.6	6.0	7.5	9.3	11.1	13.0	15.5	18.0
-70°	0.0	1.4	2.7	4.1	5.4	6.7	8.1	9.7	11.3	13.0	15.2
-72.5°	0.0	1.2	2.4	3.6	4.8	5.9	7.1	8.3	9.7	11.1	12.5
-75°	0.0	1.0	2.1	3.1	4.1	5.1	6.1	7.1	8.1	9.3	10.5
-77.5°	0.0	0.9	1.7	2.6	3.4	4.3	5.1	5.9	6.7	7.5	8.4
-80°	0.0	0.7	1.4	2.1	2.8	3.4	4.1	4.8	5.4	6.0	6.7
-82.5°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.6	5.0
-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-57-70-5S-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	4.3	4.6	4.8	5.1	5.4	5.6	5.8	6.1	6.3
82.5°	5.5	5.9	6.4	6.8	7.2	7.6	8.0	8.5	8.9	9.4	9.8
80°	7.3	7.9	8.6	9.3	10.0	10.7	11.4	12.0	12.6	13.3	14.1
77.5°	9.4	10.3	11.3	12.2	13.1	14.3	15.4	16.5	17.6	18.6	19.6
75°	11.6	12.8	14.3	15.8	17.3	18.7	20.3	23.4	26.3	29.0	31.7
72.5°	14.2	16.1	17.9	19.7	23.4	27.2	30.8	34.4	39.4	45.2	50.8
70°	17.3	19.5	23.6	28.3	32.7	38.1	45.7	53.0	60.1	67.8	77.0
67.5°	21.0	26.5	31.8	37.9	47.0	55.8	64.4	76.3	87.8	98.7	111.8
65°	27.9	33.9	43.0	53.4	63.5	77.3	91.1	104.4	127.1	150.5	172.8
62.5°	34.6	45.6	57.3	70.6	86.7	102.4	127.8	155.8	182.7	216.8	250.3
60°	45.6	58.6	74.3	92.4	113.3	146.0	177.6	216.3	256.5	295.2	341.1
57.5°	57.3	74.3	94.3	120.6	156.9	194.7	241.4	286.7	339.3	391.6	444.4
55°	70.6	92.4	120.6	160.6	204.7	256.6	310.3	371.2	430.3	499.4	565.6
52.5°	86.7	113.3	156.9	204.7	261.7	323.0	390.6	462.0	539.2	616.7	699.3
50°	102.4	146.0	194.7	256.6	323.0	397.0	477.9	563.4	654.3	746.6	842.1
47.5°	127.8	177.6	241.4	310.3	390.6	477.9	571.4	673.1	775.2	885.9	993.6
45°	155.8	216.3	286.7	371.2	462.0	563.4	673.1	784.8	908.0	1023.6	1122.7
42.5°	182.7	256.5	339.3	430.3	539.2	654.3	775.2	908.0	1033.3	1142.4	1214.7
40°	216.8	295.2	391.6	499.4	616.7	746.6	885.9	1023.6	1142.4	1219.2	1269.1
37.5°	250.3	341.1	444.4	565.6	699.3	842.1	993.6	1122.7	1214.7	1269.1	1402.1
35°	282.2	384.8	502.6	634.1	778.1	938.3	1083.6	1201.3	1260.0	1390.0	1636.5
32.5°	316.8	426.0	557.6	703.2	862.1	1025.9	1168.3	1241.9	1353.8	1556.8	2044.7
30°	352.0	472.7	611.7	768.3	942.2	1100.4	1215.1	1294.2	1460.5	1922.9	3240.9
27.5°	384.8	516.8	667.6	835.2	1015.0	1170.3	1248.8	1388.1	1722.7	2541.8	4802.4
25°	415.1	557.6	719.3	899.3	1075.0	1209.2	1293.7	1475.7	2025.3	3912.7	6200.5
22.5°	445.8	595.0	766.7	958.1	1130.1	1235.9	1368.7	1708.1	2695.0	5181.1	7483.1
20°	476.4	634.1	812.9	1010.0	1180.1	1260.2	1437.0	1945.3	3776.3	6275.5	8580.1
17.5°	503.6	668.9	856.4	1050.9	1204.5	1298.4	1520.2	2158.3	4749.4	7262.8	9534.0
15°	527.4	699.3	894.4	1086.8	1222.1	1347.9	1693.1	2866.2	5578.5	8109.5	10380.8
12.5°	547.6	725.2	926.8	1117.5	1237.0	1390.3	1841.2	3546.0	6271.4	8782.4	11141.2
10°	564.3	746.6	953.5	1142.8	1249.4	1425.3	1963.7	4108.9	6846.1	9341.5	11774.5
7.5°	577.3	763.2	974.4	1162.5	1259.1	1452.7	2059.8	4551.0	7298.1	9781.9	12274.2
5°	586.6	775.2	989.4	1176.7	1266.0	1472.4	2128.9	4869.1	7623.6	10099.5	12635.2
2.5°	592.2	782.4	998.4	1185.2	1270.2	1484.2	2170.6	5061.0	7820.1	10291.3	12853.5
0°	594.1	784.8	1001.4	1188.1	1271.6	1488.2	2184.5	5125.1	7885.8	10355.5	12926.5
-2.5°	592.2	782.4	998.4	1185.2	1270.2	1484.2	2170.6	5061.0	7820.1	10291.3	12853.5
-5°	586.6	775.2	989.4	1176.7	1266.0	1472.4	2128.9	4869.1	7623.6	10099.5	12635.2
-7.5°	577.3	763.2	974.4	1162.5	1259.1	1452.7	2059.8	4551.0	7298.1	9781.9	12274.2
-10°	564.3	746.6	953.5	1142.8	1249.4	1425.3	1963.7	4108.9	6846.1	9341.5	11774.5
-12.5°	547.6	725.2	926.8	1117.5	1237.0	1390.3	1841.2	3546.0	6271.4	8782.4	11141.2
-15°	527.4	699.3	894.4	1086.8	1222.1	1347.9	1693.1	2866.2	5578.5	8109.5	10380.8
-17.5°	503.6	668.9	856.4	1050.9	1204.5	1298.4	1520.2	2158.3	4749.4	7262.8	9534.0
-20°	476.4	634.1	812.9	1010.0	1180.1	1260.2	1437.0	1945.3	3776.3	6275.5	8580.1



REPORT NUMBER: P731226 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	445.8	595.0	766.7	958.1	1130.1	1235.9	1368.7	1708.1	2695.0	5181.1	7483.1
-25°	415.1	557.6	719.3	899.3	1075.0	1209.2	1293.7	1475.7	2025.3	3912.7	6200.5
-27.5°	384.8	516.8	667.6	835.2	1015.0	1170.3	1248.8	1388.1	1722.7	2541.8	4802.4
-30°	352.0	472.7	611.7	768.3	942.2	1100.4	1215.1	1294.2	1460.5	1922.9	3240.9
-32.5°	316.8	426.0	557.6	703.2	862.1	1025.9	1168.3	1241.9	1353.8	1556.8	2044.7
-35°	282.2	384.8	502.6	634.1	778.1	938.3	1083.6	1201.3	1260.0	1390.0	1636.5
-37.5°	250.3	341.1	444.4	565.6	699.3	842.1	993.6	1122.7	1214.7	1269.1	1402.1
-40°	216.8	295.2	391.6	499.4	616.7	746.6	885.9	1023.6	1142.4	1219.2	1269.1
-42.5°	182.7	256.5	339.3	430.3	539.2	654.3	775.2	908.0	1033.3	1142.4	1214.7
-45°	155.8	216.3	286.7	371.2	462.0	563.4	673.1	784.8	908.0	1023.6	1122.7
-47.5°	127.8	177.6	241.4	310.3	390.6	477.9	571.4	673.1	775.2	885.9	993.6
-50°	102.4	146.0	194.7	256.6	323.0	397.0	477.9	563.4	654.3	746.6	842.1
-52.5°	86.7	113.3	156.9	204.7	261.7	323.0	390.6	462.0	539.2	616.7	699.3
-55°	70.6	92.4	120.6	160.6	204.7	256.6	310.3	371.2	430.3	499.4	565.6
-57.5°	57.3	74.3	94.3	120.6	156.9	194.7	241.4	286.7	339.3	391.6	444.4
-60°	45.6	58.6	74.3	92.4	113.3	146.0	177.6	216.3	256.5	295.2	341.1
-62.5°	34.6	45.6	57.3	70.6	86.7	102.4	127.8	155.8	182.7	216.8	250.3
-65°	27.9	33.9	43.0	53.4	63.5	77.3	91.1	104.4	127.1	150.5	172.8
-67.5°	21.0	26.5	31.8	37.9	47.0	55.8	64.4	76.3	87.8	98.7	111.8
-70°	17.3	19.5	23.6	28.3	32.7	38.1	45.7	53.0	60.1	67.8	77.0
-72.5°	14.2	16.1	17.9	19.7	23.4	27.2	30.8	34.4	39.4	45.2	50.8
-75°	11.6	12.8	14.3	15.8	17.3	18.7	20.3	23.4	26.3	29.0	31.7
-77.5°	9.4	10.3	11.3	12.2	13.1	14.3	15.4	16.5	17.6	18.6	19.6
-80°	7.3	7.9	8.6	9.3	10.0	10.7	11.4	12.0	12.6	13.3	14.1
-82.5°	5.5	5.9	6.4	6.8	7.2	7.6	8.0	8.5	8.9	9.4	9.8
-85°	3.7	4.0	4.3	4.6	4.8	5.1	5.4	5.6	5.8	6.1	6.3
-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: P731226 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-5S-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°	6.5	6.7	6.9	7.0	7.2	7.3	7.4	7.5	7.6	7.7	7.8
82.5°	10.2	10.5	10.9	11.2	11.5	11.8	12.0	12.2	12.4	12.5	12.7
80°	14.8	15.5	16.1	16.7	17.3	17.7	18.2	18.6	18.9	19.2	19.5
77.5°	21.3	23.2	25.0	26.7	28.2	29.7	30.9	32.1	33.0	33.9	34.6
75°	34.1	37.0	41.0	44.7	48.1	51.2	54.0	56.4	58.6	60.4	61.9
72.5°	56.1	61.0	66.2	72.4	78.2	83.4	88.2	92.4	96.0	99.2	101.7
70°	85.8	94.1	101.8	111.4	124.0	135.6	146.0	155.2	163.3	170.1	175.7
67.5°	130.7	148.6	165.3	180.8	198.5	216.3	232.4	246.7	259.2	269.8	278.5
65°	196.8	224.0	249.4	273.1	295.2	320.2	342.7	362.7	380.2	395.1	407.3
62.5°	282.2	316.8	352.0	384.8	415.1	445.8	476.4	503.6	527.4	547.6	564.3
60°	384.8	426.0	472.7	516.8	557.6	595.0	634.1	668.9	699.3	725.2	746.6
57.5°	502.6	557.6	611.7	667.6	719.3	766.7	812.9	856.4	894.4	926.8	953.5
55°	634.1	703.2	768.3	835.2	899.3	958.1	1010.0	1050.9	1086.8	1117.5	1142.8
52.5°	778.1	862.1	942.2	1015.0	1075.0	1130.1	1180.1	1204.5	1222.1	1237.0	1249.4
50°	938.3	1025.9	1100.4	1170.3	1209.2	1235.9	1260.2	1298.4	1347.9	1390.3	1425.3
47.5°	1083.6	1168.3	1215.1	1248.8	1293.7	1368.7	1437.0	1520.2	1693.1	1841.2	1963.7
45°	1201.3	1241.9	1294.2	1388.1	1475.7	1708.1	1945.3	2158.3	2866.2	3546.0	4108.9
42.5°	1260.0	1353.8	1460.5	1722.7	2025.3	2695.0	3776.3	4749.4	5578.5	6271.4	6846.1
40°	1390.0	1556.8	1922.9	2541.8	3912.7	5181.1	6275.5	7262.8	8109.5	8782.4	9341.5
37.5°	1636.5	2044.7	3240.9	4802.4	6200.5	7483.1	8580.1	9534.0	10380.8	11141.2	11774.5
35°	2085.6	3594.4	5331.2	6894.0	8317.1	9548.1	10696.5	11768.7	12722.4	13632.1	14414.6
32.5°	3594.4	5502.2	7245.1	8800.4	10208.5	11575.9	12846.8	14149.4	15321.8	16510.2	17654.2
30°	5331.2	7245.1	8963.0	10551.1	12114.2	13673.1	15223.3	16913.1	18617.2	20293.4	22214.6
27.5°	6894.0	8800.4	10551.1	12295.4	14098.6	15896.2	18128.9	20412.0	23253.8	25746.5	27892.6
25°	8317.1	10208.5	12114.2	14098.6	16194.3	18748.6	21894.2	25300.8	28439.5	31217.0	33563.5
22.5°	9548.1	11575.9	13673.1	15896.2	18748.6	22395.3	26359.5	30109.8	33520.3	36539.4	39279.0
20°	10696.5	12846.8	15223.3	18128.9	21894.2	26359.5	30676.3	34702.4	38459.7	42214.6	45584.7
17.5°	11768.7	14149.4	16913.1	20412.0	25300.8	30109.8	34702.4	39177.4	43736.6	48476.3	52806.7
15°	12722.4	15321.8	18617.2	23253.8	28439.5	33520.3	38459.7	43736.6	49468.1	55249.3	60918.5
12.5°	13632.1	16510.2	20293.4	25746.5	31217.0	36539.4	42214.6	48476.3	55249.3	62295.4	67166.6
10°	14414.6	17654.2	22214.6	27892.6	33563.5	39279.0	45584.7	52806.7	60918.5	67166.6	71851.8
7.5°	15033.5	18561.6	23743.6	29608.0	35444.5	41645.9	48758.2	56947.6	64928.8	70907.7	74694.8
5°	15481.3	19219.6	24855.6	30859.8	36823.3	43390.9	51115.9	60089.4	67642.8	73084.0	76419.7
2.5°	15752.4	19618.6	25531.0	31622.1	37665.5	44461.4	52570.8	62044.0	69351.6	74289.6	77346.2
0°	15843.2	19752.3	25757.6	31878.1	37948.9	44822.4	53062.9	62708.1	69936.2	74660.0	77663.1
-2.5°	15752.4	19618.6	25531.0	31622.1	37665.5	44461.4	52570.8	62044.0	69351.6	74289.6	77346.2
-5°	15481.3	19219.6	24855.6	30859.8	36823.3	43390.9	51115.9	60089.4	67642.8	73084.0	76419.7
-7.5°	15033.5	18561.6	23743.6	29608.0	35444.5	41645.9	48758.2	56947.6	64928.8	70907.7	74694.8
-10°	14414.6	17654.2	22214.6	27892.6	33563.5	39279.0	45584.7	52806.7	60918.5	67166.6	71851.8
-12.5°	13632.1	16510.2	20293.4	25746.5	31217.0	36539.4	42214.6	48476.3	55249.3	62295.4	67166.6
-15°	12722.4	15321.8	18617.2	23253.8	28439.5	33520.3	38459.7	43736.6	49468.1	55249.3	60918.5
-17.5°	11768.7	14149.4	16913.1	20412.0	25300.8	30109.8	34702.4	39177.4	43736.6	48476.3	52806.7
-20°	10696.5	12846.8	15223.3	18128.9	21894.2	26359.5	30676.3	34702.4	38459.7	42214.6	45584.7



REPORT NUMBER: P731226 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	9548.1	11575.9	13673.1	15896.2	18748.6	22395.3	26359.5	30109.8	33520.3	36539.4	39279.0
-25°	8317.1	10208.5	12114.2	14098.6	16194.3	18748.6	21894.2	25300.8	28439.5	31217.0	33563.5
-27.5°	6894.0	8800.4	10551.1	12295.4	14098.6	15896.2	18128.9	20412.0	23253.8	25746.5	27892.6
-30°	5331.2	7245.1	8963.0	10551.1	12114.2	13673.1	15223.3	16913.1	18617.2	20293.4	22214.6
-32.5°	3594.4	5502.2	7245.1	8800.4	10208.5	11575.9	12846.8	14149.4	15321.8	16510.2	17654.2
-35°	2085.6	3594.4	5331.2	6894.0	8317.1	9548.1	10696.5	11768.7	12722.4	13632.1	14414.6
-37.5°	1636.5	2044.7	3240.9	4802.4	6200.5	7483.1	8580.1	9534.0	10380.8	11141.2	11774.5
-40°	1390.0	1556.8	1922.9	2541.8	3912.7	5181.1	6275.5	7262.8	8109.5	8782.4	9341.5
-42.5°	1260.0	1353.8	1460.5	1722.7	2025.3	2695.0	3776.3	4749.4	5578.5	6271.4	6846.1
-45°	1201.3	1241.9	1294.2	1388.1	1475.7	1708.1	1945.3	2158.3	2866.2	3546.0	4108.9
-47.5°	1083.6	1168.3	1215.1	1248.8	1293.7	1368.7	1437.0	1520.2	1693.1	1841.2	1963.7
-50°	938.3	1025.9	1100.4	1170.3	1209.2	1235.9	1260.2	1298.4	1347.9	1390.3	1425.3
-52.5°	778.1	862.1	942.2	1015.0	1075.0	1130.1	1180.1	1204.5	1222.1	1237.0	1249.4
-55°	634.1	703.2	768.3	835.2	899.3	958.1	1010.0	1050.9	1086.8	1117.5	1142.8
-57.5°	502.6	557.6	611.7	667.6	719.3	766.7	812.9	856.4	894.4	926.8	953.5
-60°	384.8	426.0	472.7	516.8	557.6	595.0	634.1	668.9	699.3	725.2	746.6
-62.5°	282.2	316.8	352.0	384.8	415.1	445.8	476.4	503.6	527.4	547.6	564.3
-65°	196.8	224.0	249.4	273.1	295.2	320.2	342.7	362.7	380.2	395.1	407.3
-67.5°	130.7	148.6	165.3	180.8	198.5	216.3	232.4	246.7	259.2	269.8	278.5
-70°	85.8	94.1	101.8	111.4	124.0	135.6	146.0	155.2	163.3	170.1	175.7
-72.5°	56.1	61.0	66.2	72.4	78.2	83.4	88.2	92.4	96.0	99.2	101.7
-75°	34.1	37.0	41.0	44.7	48.1	51.2	54.0	56.4	58.6	60.4	61.9
-77.5°	21.3	23.2	25.0	26.7	28.2	29.7	30.9	32.1	33.0	33.9	34.6
-80°	14.8	15.5	16.1	16.7	17.3	17.7	18.2	18.6	18.9	19.2	19.5
-82.5°	10.2	10.5	10.9	11.2	11.5	11.8	12.0	12.2	12.4	12.5	12.7
-85°	6.5	6.7	6.9	7.0	7.2	7.3	7.4	7.5	7.6	7.7	7.8
-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: P731226 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-5S-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°	7.8	7.9	7.9	7.9	7.9	7.9	7.8	7.8	7.7	7.6	7.5
82.5°	12.8	12.8	12.9	12.9	12.9	12.8	12.8	12.7	12.5	12.4	12.2
80°	19.7	19.8	19.9	19.9	19.9	19.8	19.7	19.5	19.2	18.9	18.6
77.5°	35.1	35.5	35.7	35.8	35.7	35.5	35.1	34.6	33.9	33.0	32.1
75°	63.1	63.9	64.4	64.6	64.4	63.9	63.1	61.9	60.4	58.6	56.4
72.5°	103.7	105.2	106.0	106.3	106.0	105.2	103.7	101.7	99.2	96.0	92.4
70°	180.1	183.3	185.2	185.8	185.2	183.3	180.1	175.7	170.1	163.3	155.2
67.5°	285.3	290.2	293.1	294.1	293.1	290.2	285.3	278.5	269.8	259.2	246.7
65°	416.9	423.7	427.8	429.2	427.8	423.7	416.9	407.3	395.1	380.2	362.7
62.5°	577.3	586.6	592.2	594.1	592.2	586.6	577.3	564.3	547.6	527.4	503.6
60°	763.2	775.2	782.4	784.8	782.4	775.2	763.2	746.6	725.2	699.3	668.9
57.5°	974.4	989.4	998.4	1001.4	998.4	989.4	974.4	953.5	926.8	894.4	856.4
55°	1162.5	1176.7	1185.2	1188.1	1185.2	1176.7	1162.5	1142.8	1117.5	1086.8	1050.9
52.5°	1259.1	1266.0	1270.2	1271.6	1270.2	1266.0	1259.1	1249.4	1237.0	1222.1	1204.5
50°	1452.7	1472.4	1484.2	1488.2	1484.2	1472.4	1452.7	1425.3	1390.3	1347.9	1298.4
47.5°	2059.8	2128.9	2170.6	2184.5	2170.6	2128.9	2059.8	1963.7	1841.2	1693.1	1520.2
45°	4551.0	4869.1	5061.0	5125.1	5061.0	4869.1	4551.0	4108.9	3546.0	2866.2	2158.3
42.5°	7298.1	7623.6	7820.1	7885.8	7820.1	7623.6	7298.1	6846.1	6271.4	5578.5	4749.4
40°	9781.9	10099.5	10291.3	10355.5	10291.3	10099.5	9781.9	9341.5	8782.4	8109.5	7262.8
37.5°	12274.2	12635.2	12853.5	12926.5	12853.5	12635.2	12274.2	11774.5	11141.2	10380.8	9534.0
35°	15033.5	15481.3	15752.4	15843.2	15752.4	15481.3	15033.5	14414.6	13632.1	12722.4	11768.7
32.5°	18561.6	19219.6	19618.6	19752.3	19618.6	19219.6	18561.6	17654.2	16510.2	15321.8	14149.4
30°	23743.6	24855.6	25531.0	25757.6	25531.0	24855.6	23743.6	22214.6	20293.4	18617.2	16913.1
27.5°	29608.0	30859.8	31622.1	31878.1	31622.1	30859.8	29608.0	27892.6	25746.5	23253.8	20412.0
25°	35444.5	36823.3	37665.5	37948.9	37665.5	36823.3	35444.5	33563.5	31217.0	28439.5	25300.8
22.5°	41645.9	43390.9	44461.4	44822.4	44461.4	43390.9	41645.9	39279.0	36539.4	33520.3	30109.8
20°	48758.2	51115.9	52570.8	53062.9	52570.8	51115.9	48758.2	45584.7	42214.6	38459.7	34702.4
17.5°	56947.6	60089.4	62044.0	62708.1	62044.0	60089.4	56947.6	52806.7	48476.3	43736.6	39177.4
15°	64928.8	67642.8	69351.6	69936.2	69351.6	67642.8	64928.8	60918.5	55249.3	49468.1	43736.6
12.5°	70907.7	73084.0	74289.6	74660.0	74289.6	73084.0	70907.7	67166.6	62295.4	55249.3	48476.3
10°	74694.8	76419.7	77346.2	77663.1	77346.2	76419.7	74694.8	71851.8	67166.6	60918.5	52806.7
7.5°	77048.0	78653.6	79618.0	79957.9	79618.0	78653.6	77048.0	74694.8	70907.7	64928.8	56947.6
5°	78653.6	80323.0	81358.7	81674.6	81358.7	80323.0	78653.6	76419.7	73084.0	67642.8	60089.4
2.5°	79618.0	81358.7	81856.4	81839.5	81856.4	81358.7	79618.0	77346.2	74289.6	69351.6	62044.0
0°	79957.9	81674.6	81839.5	81523.6	81839.5	81674.6	79957.9	77663.1	74660.0	69936.2	62708.1
-2.5°	79618.0	81358.7	81856.4	81839.5	81856.4	81358.7	79618.0	77346.2	74289.6	69351.6	62044.0
-5°	78653.6	80323.0	81358.7	81674.6	81358.7	80323.0	78653.6	76419.7	73084.0	67642.8	60089.4
-7.5°	77048.0	78653.6	79618.0	79957.9	79618.0	78653.6	77048.0	74694.8	70907.7	64928.8	56947.6
-10°	74694.8	76419.7	77346.2	77663.1	77346.2	76419.7	74694.8	71851.8	67166.6	60918.5	52806.7
-12.5°	70907.7	73084.0	74289.6	74660.0	74289.6	73084.0	70907.7	67166.6	62295.4	55249.3	48476.3
-15°	64928.8	67642.8	69351.6	69936.2	69351.6	67642.8	64928.8	60918.5	55249.3	49468.1	43736.6
-17.5°	56947.6	60089.4	62044.0	62708.1	62044.0	60089.4	56947.6	52806.7	48476.3	43736.6	39177.4
-20°	48758.2	51115.9	52570.8	53062.9	52570.8	51115.9	48758.2	45584.7	42214.6	38459.7	34702.4



REPORT NUMBER: P731226 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	41645.9	43390.9	44461.4	44822.4	44461.4	43390.9	41645.9	39279.0	36539.4	33520.3	30109.8
-25°	35444.5	36823.3	37665.5	37948.9	37665.5	36823.3	35444.5	33563.5	31217.0	28439.5	25300.8
-27.5°	29608.0	30859.8	31622.1	31878.1	31622.1	30859.8	29608.0	27892.6	25746.5	23253.8	20412.0
-30°	23743.6	24855.6	25531.0	25757.6	25531.0	24855.6	23743.6	22214.6	20293.4	18617.2	16913.1
-32.5°	18561.6	19219.6	19618.6	19752.3	19618.6	19219.6	18561.6	17654.2	16510.2	15321.8	14149.4
-35°	15033.5	15481.3	15752.4	15843.2	15752.4	15481.3	15033.5	14414.6	13632.1	12722.4	11768.7
-37.5°	12274.2	12635.2	12853.5	12926.5	12853.5	12635.2	12274.2	11774.5	11141.2	10380.8	9534.0
-40°	9781.9	10099.5	10291.3	10355.5	10291.3	10099.5	9781.9	9341.5	8782.4	8109.5	7262.8
-42.5°	7298.1	7623.6	7820.1	7885.8	7820.1	7623.6	7298.1	6846.1	6271.4	5578.5	4749.4
-45°	4551.0	4869.1	5061.0	5125.1	5061.0	4869.1	4551.0	4108.9	3546.0	2866.2	2158.3
-47.5°	2059.8	2128.9	2170.6	2184.5	2170.6	2128.9	2059.8	1963.7	1841.2	1693.1	1520.2
-50°	1452.7	1472.4	1484.2	1488.2	1484.2	1472.4	1452.7	1425.3	1390.3	1347.9	1298.4
-52.5°	1259.1	1266.0	1270.2	1271.6	1270.2	1266.0	1259.1	1249.4	1237.0	1222.1	1204.5
-55°	1162.5	1176.7	1185.2	1188.1	1185.2	1176.7	1162.5	1142.8	1117.5	1086.8	1050.9
-57.5°	974.4	989.4	998.4	1001.4	998.4	989.4	974.4	953.5	926.8	894.4	856.4
-60°	763.2	775.2	782.4	784.8	782.4	775.2	763.2	746.6	725.2	699.3	668.9
-62.5°	577.3	586.6	592.2	594.1	592.2	586.6	577.3	564.3	547.6	527.4	503.6
-65°	416.9	423.7	427.8	429.2	427.8	423.7	416.9	407.3	395.1	380.2	362.7
-67.5°	285.3	290.2	293.1	294.1	293.1	290.2	285.3	278.5	269.8	259.2	246.7
-70°	180.1	183.3	185.2	185.8	185.2	183.3	180.1	175.7	170.1	163.3	155.2
-72.5°	103.7	105.2	106.0	106.3	106.0	105.2	103.7	101.7	99.2	96.0	92.4
-75°	63.1	63.9	64.4	64.6	64.4	63.9	63.1	61.9	60.4	58.6	56.4
-77.5°	35.1	35.5	35.7	35.8	35.7	35.5	35.1	34.6	33.9	33.0	32.1
-80°	19.7	19.8	19.9	19.9	19.9	19.8	19.7	19.5	19.2	18.9	18.6
-82.5°	12.8	12.8	12.9	12.9	12.9	12.8	12.8	12.7	12.5	12.4	12.2
-85°	7.8	7.9	7.9	7.9	7.9	7.9	7.8	7.8	7.7	7.6	7.5
-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



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	3.7	3.6	3.5	3.5	3.4	3.3	3.2	3.1	2.9	2.8
85°	7.4	7.3	7.2	7.0	6.9	6.7	6.5	6.3	6.1	5.8	5.6
82.5°	12.0	11.8	11.5	11.2	10.9	10.5	10.2	9.8	9.4	8.9	8.5
80°	18.2	17.7	17.3	16.7	16.1	15.5	14.8	14.1	13.3	12.6	12.0
77.5°	30.9	29.7	28.2	26.7	25.0	23.2	21.3	19.6	18.6	17.6	16.5
75°	54.0	51.2	48.1	44.7	41.0	37.0	34.1	31.7	29.0	26.3	23.4
72.5°	88.2	83.4	78.2	72.4	66.2	61.0	56.1	50.8	45.2	39.4	34.4
70°	146.0	135.6	124.0	111.4	101.8	94.1	85.8	77.0	67.8	60.1	53.0
67.5°	232.4	216.3	198.5	180.8	165.3	148.6	130.7	111.8	98.7	87.8	76.3
65°	342.7	320.2	295.2	273.1	249.4	224.0	196.8	172.8	150.5	127.1	104.4
62.5°	476.4	445.8	415.1	384.8	352.0	316.8	282.2	250.3	216.8	182.7	155.8
60°	634.1	595.0	557.6	516.8	472.7	426.0	384.8	341.1	295.2	256.5	216.3
57.5°	812.9	766.7	719.3	667.6	611.7	557.6	502.6	444.4	391.6	339.3	286.7
55°	1010.0	958.1	899.3	835.2	768.3	703.2	634.1	565.6	499.4	430.3	371.2
52.5°	1180.1	1130.1	1075.0	1015.0	942.2	862.1	778.1	699.3	616.7	539.2	462.0
50°	1260.2	1235.9	1209.2	1170.3	1100.4	1025.9	938.3	842.1	746.6	654.3	563.4
47.5°	1437.0	1368.7	1293.7	1248.8	1215.1	1168.3	1083.6	993.6	885.9	775.2	673.1
45°	1945.3	1708.1	1475.7	1388.1	1294.2	1241.9	1201.3	1122.7	1023.6	908.0	784.8
42.5°	3776.3	2695.0	2025.3	1722.7	1460.5	1353.8	1260.0	1214.7	1142.4	1033.3	908.0
40°	6275.5	5181.1	3912.7	2541.8	1922.9	1556.8	1390.0	1269.1	1219.2	1142.4	1023.6
37.5°	8580.1	7483.1	6200.5	4802.4	3240.9	2044.7	1636.5	1402.1	1269.1	1214.7	1122.7
35°	10696.5	9548.1	8317.1	6894.0	5331.2	3594.4	2085.6	1636.5	1390.0	1260.0	1201.3
32.5°	12846.8	11575.9	10208.5	8800.4	7245.1	5502.2	3594.4	2044.7	1556.8	1353.8	1241.9
30°	15223.3	13673.1	12114.2	10551.1	8963.0	7245.1	5331.2	3240.9	1922.9	1460.5	1294.2
27.5°	18128.9	15896.2	14098.6	12295.4	10551.1	8800.4	6894.0	4802.4	2541.8	1722.7	1388.1
25°	21894.2	18748.6	16194.3	14098.6	12114.2	10208.5	8317.1	6200.5	3912.7	2025.3	1475.7
22.5°	26359.5	22395.3	18748.6	15896.2	13673.1	11575.9	9548.1	7483.1	5181.1	2695.0	1708.1
20°	30676.3	26359.5	21894.2	18128.9	15223.3	12846.8	10696.5	8580.1	6275.5	3776.3	1945.3
17.5°	34702.4	30109.8	25300.8	20412.0	16913.1	14149.4	11768.7	9534.0	7262.8	4749.4	2158.3
15°	38459.7	33520.3	28439.5	23253.8	18617.2	15321.8	12722.4	10380.8	8109.5	5578.5	2866.2
12.5°	42214.6	36539.4	31217.0	25746.5	20293.4	16510.2	13632.1	11141.2	8782.4	6271.4	3546.0
10°	45584.7	39279.0	33563.5	27892.6	22214.6	17654.2	14414.6	11774.5	9341.5	6846.1	4108.9
7.5°	48758.2	41645.9	35444.5	29608.0	23743.6	18561.6	15033.5	12274.2	9781.9	7298.1	4551.0
5°	51115.9	43390.9	36823.3	30859.8	24855.6	19219.6	15481.3	12635.2	10099.5	7623.6	4869.1
2.5°	52570.8	44461.4	37665.5	31622.1	25531.0	19618.6	15752.4	12853.5	10291.3	7820.1	5061.0
0°	53062.9	44822.4	37948.9	31878.1	25757.6	19752.3	15843.2	12926.5	10355.5	7885.8	5125.1
-2.5°	52570.8	44461.4	37665.5	31622.1	25531.0	19618.6	15752.4	12853.5	10291.3	7820.1	5061.0
-5°	51115.9	43390.9	36823.3	30859.8	24855.6	19219.6	15481.3	12635.2	10099.5	7623.6	4869.1
-7.5°	48758.2	41645.9	35444.5	29608.0	23743.6	18561.6	15033.5	12274.2	9781.9	7298.1	4551.0
-10°	45584.7	39279.0	33563.5	27892.6	22214.6	17654.2	14414.6	11774.5	9341.5	6846.1	4108.9
-12.5°	42214.6	36539.4	31217.0	25746.5	20293.4	16510.2	13632.1	11141.2	8782.4	6271.4	3546.0
-15°	38459.7	33520.3	28439.5	23253.8	18617.2	15321.8	12722.4	10380.8	8109.5	5578.5	2866.2
-17.5°	34702.4	30109.8	25300.8	20412.0	16913.1	14149.4	11768.7	9534.0	7262.8	4749.4	2158.3
-20°	30676.3	26359.5	21894.2	18128.9	15223.3	12846.8	10696.5	8580.1	6275.5	3776.3	1945.3



REPORT NUMBER: P731226 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	26359.5	22395.3	18748.6	15896.2	13673.1	11575.9	9548.1	7483.1	5181.1	2695.0	1708.1
-25°	21894.2	18748.6	16194.3	14098.6	12114.2	10208.5	8317.1	6200.5	3912.7	2025.3	1475.7
-27.5°	18128.9	15896.2	14098.6	12295.4	10551.1	8800.4	6894.0	4802.4	2541.8	1722.7	1388.1
-30°	15223.3	13673.1	12114.2	10551.1	8963.0	7245.1	5331.2	3240.9	1922.9	1460.5	1294.2
-32.5°	12846.8	11575.9	10208.5	8800.4	7245.1	5502.2	3594.4	2044.7	1556.8	1353.8	1241.9
-35°	10696.5	9548.1	8317.1	6894.0	5331.2	3594.4	2085.6	1636.5	1390.0	1260.0	1201.3
-37.5°	8580.1	7483.1	6200.5	4802.4	3240.9	2044.7	1636.5	1402.1	1269.1	1214.7	1122.7
-40°	6275.5	5181.1	3912.7	2541.8	1922.9	1556.8	1390.0	1269.1	1219.2	1142.4	1023.6
-42.5°	3776.3	2695.0	2025.3	1722.7	1460.5	1353.8	1260.0	1214.7	1142.4	1033.3	908.0
-45°	1945.3	1708.1	1475.7	1388.1	1294.2	1241.9	1201.3	1122.7	1023.6	908.0	784.8
-47.5°	1437.0	1368.7	1293.7	1248.8	1215.1	1168.3	1083.6	993.6	885.9	775.2	673.1
-50°	1260.2	1235.9	1209.2	1170.3	1100.4	1025.9	938.3	842.1	746.6	654.3	563.4
-52.5°	1180.1	1130.1	1075.0	1015.0	942.2	862.1	778.1	699.3	616.7	539.2	462.0
-55°	1010.0	958.1	899.3	835.2	768.3	703.2	634.1	565.6	499.4	430.3	371.2
-57.5°	812.9	766.7	719.3	667.6	611.7	557.6	502.6	444.4	391.6	339.3	286.7
-60°	634.1	595.0	557.6	516.8	472.7	426.0	384.8	341.1	295.2	256.5	216.3
-62.5°	476.4	445.8	415.1	384.8	352.0	316.8	282.2	250.3	216.8	182.7	155.8
-65°	342.7	320.2	295.2	273.1	249.4	224.0	196.8	172.8	150.5	127.1	104.4
-67.5°	232.4	216.3	198.5	180.8	165.3	148.6	130.7	111.8	98.7	87.8	76.3
-70°	146.0	135.6	124.0	111.4	101.8	94.1	85.8	77.0	67.8	60.1	53.0
-72.5°	88.2	83.4	78.2	72.4	66.2	61.0	56.1	50.8	45.2	39.4	34.4
-75°	54.0	51.2	48.1	44.7	41.0	37.0	34.1	31.7	29.0	26.3	23.4
-77.5°	30.9	29.7	28.2	26.7	25.0	23.2	21.3	19.6	18.6	17.6	16.5
-80°	18.2	17.7	17.3	16.7	16.1	15.5	14.8	14.1	13.3	12.6	12.0
-82.5°	12.0	11.8	11.5	11.2	10.9	10.5	10.2	9.8	9.4	8.9	8.5
-85°	7.4	7.3	7.2	7.0	6.9	6.7	6.5	6.3	6.1	5.8	5.6
-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: P731226 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-5S-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°	5.4	5.1	4.8	4.6	4.3	4.0	3.7	3.4	3.1	2.7	2.4
82.5°	8.0	7.6	7.2	6.8	6.4	5.9	5.5	5.0	4.6	4.1	3.6
80°	11.4	10.7	10.0	9.3	8.6	7.9	7.3	6.7	6.0	5.4	4.8
77.5°	15.4	14.3	13.1	12.2	11.3	10.3	9.4	8.4	7.5	6.7	5.9
75°	20.3	18.7	17.3	15.8	14.3	12.8	11.6	10.5	9.3	8.1	7.1
72.5°	30.8	27.2	23.4	19.7	17.9	16.1	14.2	12.5	11.1	9.7	8.3
70°	45.7	38.1	32.7	28.3	23.6	19.5	17.3	15.2	13.0	11.3	9.7
67.5°	64.4	55.8	47.0	37.9	31.8	26.5	21.0	18.0	15.5	13.0	11.1
65°	91.1	77.3	63.5	53.4	43.0	33.9	27.9	21.7	18.0	15.2	12.5
62.5°	127.8	102.4	86.7	70.6	57.3	45.6	34.6	27.9	21.0	17.3	14.2
60°	177.6	146.0	113.3	92.4	74.3	58.6	45.6	33.9	26.5	19.5	16.1
57.5°	241.4	194.7	156.9	120.6	94.3	74.3	57.3	43.0	31.8	23.6	17.9
55°	310.3	256.6	204.7	160.6	120.6	92.4	70.6	53.4	37.9	28.3	19.7
52.5°	390.6	323.0	261.7	204.7	156.9	113.3	86.7	63.5	47.0	32.7	23.4
50°	477.9	397.0	323.0	256.6	194.7	146.0	102.4	77.3	55.8	38.1	27.2
47.5°	571.4	477.9	390.6	310.3	241.4	177.6	127.8	91.1	64.4	45.7	30.8
45°	673.1	563.4	462.0	371.2	286.7	216.3	155.8	104.4	76.3	53.0	34.4
42.5°	775.2	654.3	539.2	430.3	339.3	256.5	182.7	127.1	87.8	60.1	39.4
40°	885.9	746.6	616.7	499.4	391.6	295.2	216.8	150.5	98.7	67.8	45.2
37.5°	993.6	842.1	699.3	565.6	444.4	341.1	250.3	172.8	111.8	77.0	50.8
35°	1083.6	938.3	778.1	634.1	502.6	384.8	282.2	196.8	130.7	85.8	56.1
32.5°	1168.3	1025.9	862.1	703.2	557.6	426.0	316.8	224.0	148.6	94.1	61.0
30°	1215.1	1100.4	942.2	768.3	611.7	472.7	352.0	249.4	165.3	101.8	66.2
27.5°	1248.8	1170.3	1015.0	835.2	667.6	516.8	384.8	273.1	180.8	111.4	72.4
25°	1293.7	1209.2	1075.0	899.3	719.3	557.6	415.1	295.2	198.5	124.0	78.2
22.5°	1368.7	1235.9	1130.1	958.1	766.7	595.0	445.8	320.2	216.3	135.6	83.4
20°	1437.0	1260.2	1180.1	1010.0	812.9	634.1	476.4	342.7	232.4	146.0	88.2
17.5°	1520.2	1298.4	1204.5	1050.9	856.4	668.9	503.6	362.7	246.7	155.2	92.4
15°	1693.1	1347.9	1222.1	1086.8	894.4	699.3	527.4	380.2	259.2	163.3	96.0
12.5°	1841.2	1390.3	1237.0	1117.5	926.8	725.2	547.6	395.1	269.8	170.1	99.2
10°	1963.7	1425.3	1249.4	1142.8	953.5	746.6	564.3	407.3	278.5	175.7	101.7
7.5°	2059.8	1452.7	1259.1	1162.5	974.4	763.2	577.3	416.9	285.3	180.1	103.7
5°	2128.9	1472.4	1266.0	1176.7	989.4	775.2	586.6	423.7	290.2	183.3	105.2
2.5°	2170.6	1484.2	1270.2	1185.2	998.4	782.4	592.2	427.8	293.1	185.2	106.0
0°	2184.5	1488.2	1271.6	1188.1	1001.4	784.8	594.1	429.2	294.1	185.8	106.3
-2.5°	2170.6	1484.2	1270.2	1185.2	998.4	782.4	592.2	427.8	293.1	185.2	106.0
-5°	2128.9	1472.4	1266.0	1176.7	989.4	775.2	586.6	423.7	290.2	183.3	105.2
-7.5°	2059.8	1452.7	1259.1	1162.5	974.4	763.2	577.3	416.9	285.3	180.1	103.7
-10°	1963.7	1425.3	1249.4	1142.8	953.5	746.6	564.3	407.3	278.5	175.7	101.7
-12.5°	1841.2	1390.3	1237.0	1117.5	926.8	725.2	547.6	395.1	269.8	170.1	99.2
-15°	1693.1	1347.9	1222.1	1086.8	894.4	699.3	527.4	380.2	259.2	163.3	96.0
-17.5°	1520.2	1298.4	1204.5	1050.9	856.4	668.9	503.6	362.7	246.7	155.2	92.4
-20°	1437.0	1260.2	1180.1	1010.0	812.9	634.1	476.4	342.7	232.4	146.0	88.2



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 CATALOG NUMBER: EPH-LS-08-0320N-57-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1368.7	1235.9	1130.1	958.1	766.7	595.0	445.8	320.2	216.3	135.6	83.4
-25°	1293.7	1209.2	1075.0	899.3	719.3	557.6	415.1	295.2	198.5	124.0	78.2
-27.5°	1248.8	1170.3	1015.0	835.2	667.6	516.8	384.8	273.1	180.8	111.4	72.4
-30°	1215.1	1100.4	942.2	768.3	611.7	472.7	352.0	249.4	165.3	101.8	66.2
-32.5°	1168.3	1025.9	862.1	703.2	557.6	426.0	316.8	224.0	148.6	94.1	61.0
-35°	1083.6	938.3	778.1	634.1	502.6	384.8	282.2	196.8	130.7	85.8	56.1
-37.5°	993.6	842.1	699.3	565.6	444.4	341.1	250.3	172.8	111.8	77.0	50.8
-40°	885.9	746.6	616.7	499.4	391.6	295.2	216.8	150.5	98.7	67.8	45.2
-42.5°	775.2	654.3	539.2	430.3	339.3	256.5	182.7	127.1	87.8	60.1	39.4
-45°	673.1	563.4	462.0	371.2	286.7	216.3	155.8	104.4	76.3	53.0	34.4
-47.5°	571.4	477.9	390.6	310.3	241.4	177.6	127.8	91.1	64.4	45.7	30.8
-50°	477.9	397.0	323.0	256.6	194.7	146.0	102.4	77.3	55.8	38.1	27.2
-52.5°	390.6	323.0	261.7	204.7	156.9	113.3	86.7	63.5	47.0	32.7	23.4
-55°	310.3	256.6	204.7	160.6	120.6	92.4	70.6	53.4	37.9	28.3	19.7
-57.5°	241.4	194.7	156.9	120.6	94.3	74.3	57.3	43.0	31.8	23.6	17.9
-60°	177.6	146.0	113.3	92.4	74.3	58.6	45.6	33.9	26.5	19.5	16.1
-62.5°	127.8	102.4	86.7	70.6	57.3	45.6	34.6	27.9	21.0	17.3	14.2
-65°	91.1	77.3	63.5	53.4	43.0	33.9	27.9	21.7	18.0	15.2	12.5
-67.5°	64.4	55.8	47.0	37.9	31.8	26.5	21.0	18.0	15.5	13.0	11.1
-70°	45.7	38.1	32.7	28.3	23.6	19.5	17.3	15.2	13.0	11.3	9.7
-72.5°	30.8	27.2	23.4	19.7	17.9	16.1	14.2	12.5	11.1	9.7	8.3
-75°	20.3	18.7	17.3	15.8	14.3	12.8	11.6	10.5	9.3	8.1	7.1
-77.5°	15.4	14.3	13.1	12.2	11.3	10.3	9.4	8.4	7.5	6.7	5.9
-80°	11.4	10.7	10.0	9.3	8.6	7.9	7.3	6.7	6.0	5.4	4.8
-82.5°	8.0	7.6	7.2	6.8	6.4	5.9	5.5	5.0	4.6	4.1	3.6
-85°	5.4	5.1	4.8	4.6	4.3	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°	5.1	4.3	3.4	2.6	1.7	0.9	0.0
75°	6.1	5.1	4.1	3.1	2.1	1.0	0.0
72.5°	7.1	5.9	4.8	3.6	2.4	1.2	0.0
70°	8.1	6.7	5.4	4.1	2.7	1.4	0.0
67.5°	9.3	7.5	6.0	4.6	3.1	1.5	0.0
65°	10.5	8.4	6.7	5.0	3.4	1.7	0.0
62.5°	11.6	9.4	7.3	5.5	3.7	1.8	0.0
60°	12.8	10.3	7.9	5.9	4.0	2.0	0.0
57.5°	14.3	11.3	8.6	6.4	4.3	2.1	0.0
55°	15.8	12.2	9.3	6.8	4.6	2.3	0.0
52.5°	17.3	13.1	10.0	7.2	4.8	2.4	0.0
50°	18.7	14.3	10.7	7.6	5.1	2.6	0.0
47.5°	20.3	15.4	11.4	8.0	5.4	2.7	0.0
45°	23.4	16.5	12.0	8.5	5.6	2.8	0.0
42.5°	26.3	17.6	12.6	8.9	5.8	2.9	0.0
40°	29.0	18.6	13.3	9.4	6.1	3.1	0.0
37.5°	31.7	19.6	14.1	9.8	6.3	3.2	0.0
35°	34.1	21.3	14.8	10.2	6.5	3.3	0.0
32.5°	37.0	23.2	15.5	10.5	6.7	3.4	0.0
30°	41.0	25.0	16.1	10.9	6.9	3.5	0.0
27.5°	44.7	26.7	16.7	11.2	7.0	3.5	0.0
25°	48.1	28.2	17.3	11.5	7.2	3.6	0.0
22.5°	51.2	29.7	17.7	11.8	7.3	3.7	0.0
20°	54.0	30.9	18.2	12.0	7.4	3.8	0.0
17.5°	56.4	32.1	18.6	12.2	7.5	3.8	0.0
15°	58.6	33.0	18.9	12.4	7.6	3.9	0.0
12.5°	60.4	33.9	19.2	12.5	7.7	3.9	0.0
10°	61.9	34.6	19.5	12.7	7.8	3.9	0.0
7.5°	63.1	35.1	19.7	12.8	7.8	4.0	0.0
5°	63.9	35.5	19.8	12.8	7.9	4.0	0.0
2.5°	64.4	35.7	19.9	12.9	7.9	4.0	0.0
0°	64.6	35.8	19.9	12.9	7.9	4.0	0.0
-2.5°	64.4	35.7	19.9	12.9	7.9	4.0	0.0
-5°	63.9	35.5	19.8	12.8	7.9	4.0	0.0
-7.5°	63.1	35.1	19.7	12.8	7.8	4.0	0.0
-10°	61.9	34.6	19.5	12.7	7.8	3.9	0.0
-12.5°	60.4	33.9	19.2	12.5	7.7	3.9	0.0
-15°	58.6	33.0	18.9	12.4	7.6	3.9	0.0
-17.5°	56.4	32.1	18.6	12.2	7.5	3.8	0.0
-20°	54.0	30.9	18.2	12.0	7.4	3.8	0.0



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 CATALOG NUMBER: EPH-LS-08-0320N-57-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	51.2	29.7	17.7	11.8	7.3	3.7	0.0
-25°	48.1	28.2	17.3	11.5	7.2	3.6	0.0
-27.5°	44.7	26.7	16.7	11.2	7.0	3.5	0.0
-30°	41.0	25.0	16.1	10.9	6.9	3.5	0.0
-32.5°	37.0	23.2	15.5	10.5	6.7	3.4	0.0
-35°	34.1	21.3	14.8	10.2	6.5	3.3	0.0
-37.5°	31.7	19.6	14.1	9.8	6.3	3.2	0.0
-40°	29.0	18.6	13.3	9.4	6.1	3.1	0.0
-42.5°	26.3	17.6	12.6	8.9	5.8	2.9	0.0
-45°	23.4	16.5	12.0	8.5	5.6	2.8	0.0
-47.5°	20.3	15.4	11.4	8.0	5.4	2.7	0.0
-50°	18.7	14.3	10.7	7.6	5.1	2.6	0.0
-52.5°	17.3	13.1	10.0	7.2	4.8	2.4	0.0
-55°	15.8	12.2	9.3	6.8	4.6	2.3	0.0
-57.5°	14.3	11.3	8.6	6.4	4.3	2.1	0.0
-60°	12.8	10.3	7.9	5.9	4.0	2.0	0.0
-62.5°	11.6	9.4	7.3	5.5	3.7	1.8	0.0
-65°	10.5	8.4	6.7	5.0	3.4	1.7	0.0
-67.5°	9.3	7.5	6.0	4.6	3.1	1.5	0.0
-70°	8.1	6.7	5.4	4.1	2.7	1.4	0.0
-72.5°	7.1	5.9	4.8	3.6	2.4	1.2	0.0
-75°	6.1	5.1	4.1	3.1	2.1	1.0	0.0
-77.5°	5.1	4.3	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

