

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: P701459 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-57-80-3S-HEG-S**

Issue Date: 8/15/2023

Test Information

Test Method: LM-79-08
Report Number: P701459 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0640L-57-80-3S-HEG-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 3S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

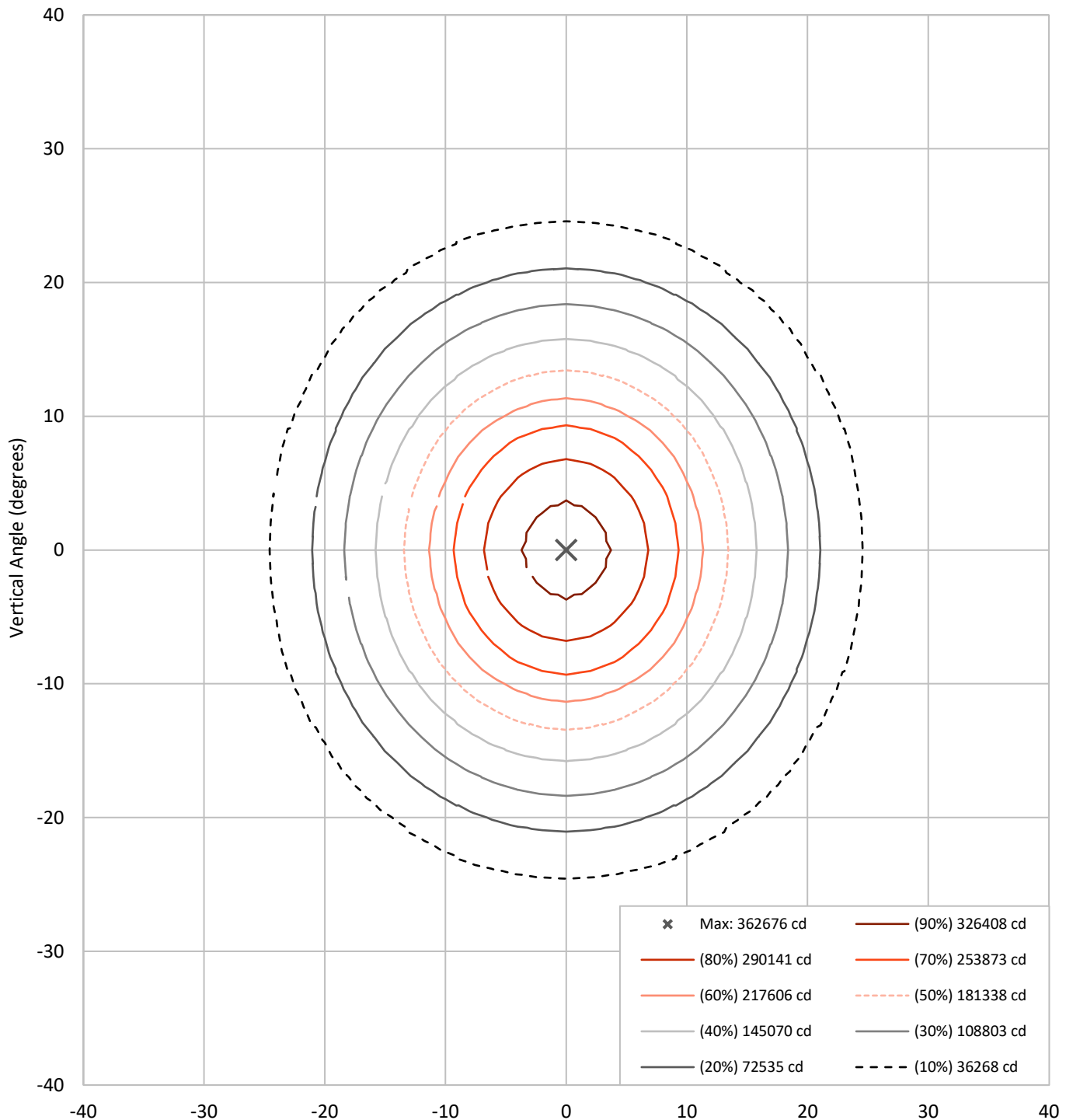
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	97954 lumens	Max Intensity:	362676 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	148.9 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:	42471.3 lumens	Field Lumens:	81311.4 lumens
Beam Efficiency:	43.4%	Field Efficiency:	83.0%

Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Candela Plot





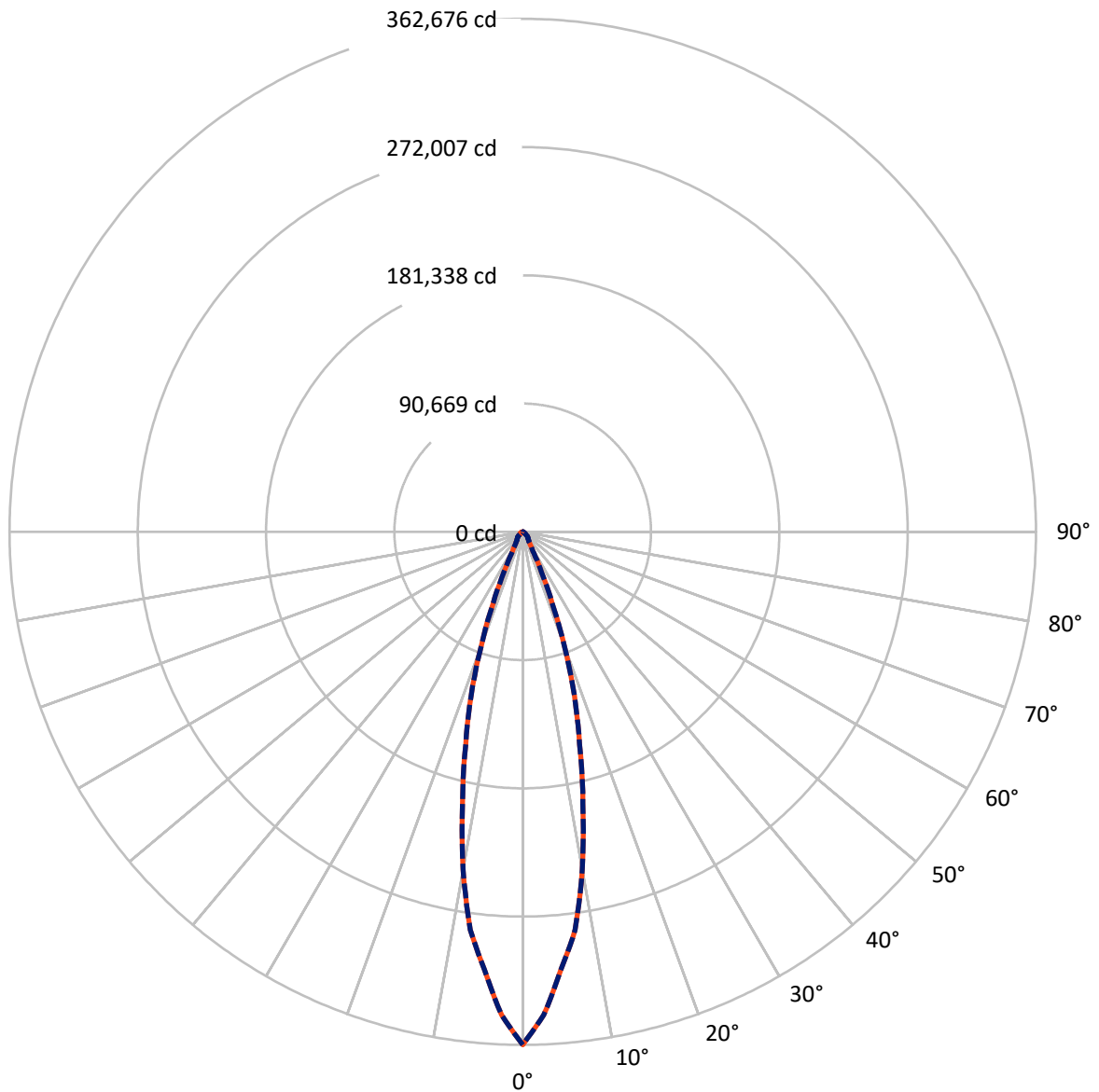
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Lumen Table

90																
80	0.1	0.9		3.4		8.9		11.8		8.9		3.4		0.9		0.1
70																
60	0.4	0.5	2.2	6.5	12.8	19.4	24.9	27.9	27.9	24.9	19.4	12.8	6.5	2.2	0.5	0.4
50		1.6	7.6	17.9	30.6	43.7	54.2	59.9	59.9	54.2	43.7	30.6	17.9	7.6	1.6	
40	1.1	4.0	14.6	31.0	51.3	80.8	115.6	135.7	135.7	115.6	80.8	51.3	31.0	14.6	4.0	1.1
30		6.8	21.6	44.4	90.5	149.1	191.8	225.3	225.3	191.8	149.1	90.5	44.4	21.6	6.8	
20	2.6	9.3	28.0	63.5	135.0	213.7	494.1	1016.3	1016.3	494.1	213.7	135.0	63.5	28.0	9.3	2.6
10		11.2	32.5	85.6	163.2	466.5	2161.9	4329.2	4329.2	2161.9	466.5	163.2	85.6	32.5	11.2	
0	3.3	12.2	34.9	97.2	186.3	935.6	4210.7	8304.4	8304.4	4210.7	935.6	186.3	97.2	34.9	12.2	3.3
-10		12.2	34.9	97.2	186.3	935.6	4210.7	8304.4	8304.4	4210.7	935.6	186.3	97.2	34.9	12.2	
-20	2.6	11.2	32.5	85.6	163.2	466.5	2161.9	4329.2	4329.2	2161.9	466.5	163.2	85.6	32.5	11.2	2.6
-30		9.3	28.0	63.5	135.0	213.7	494.1	1016.3	1016.3	494.1	213.7	135.0	63.5	28.0	9.3	
-40	1.1	6.8	21.6	44.4	90.5	149.1	191.8	225.3	225.3	191.8	149.1	90.5	44.4	21.6	6.8	1.1
-50		4.0	14.6	31.0	51.3	80.8	115.6	135.7	135.7	115.6	80.8	51.3	31.0	14.6	4.0	
-60	0.4	1.6	7.6	17.9	30.6	43.7	54.2	59.9	59.9	54.2	43.7	30.6	17.9	7.6	1.6	0.4
-70		0.5	2.2	6.5	12.8	19.4	24.9	27.9	27.9	24.9	19.4	12.8	6.5	2.2	0.5	
-80																
-90	0.1	0.9		3.4		8.9		11.8		8.9		3.4		0.9		0.1

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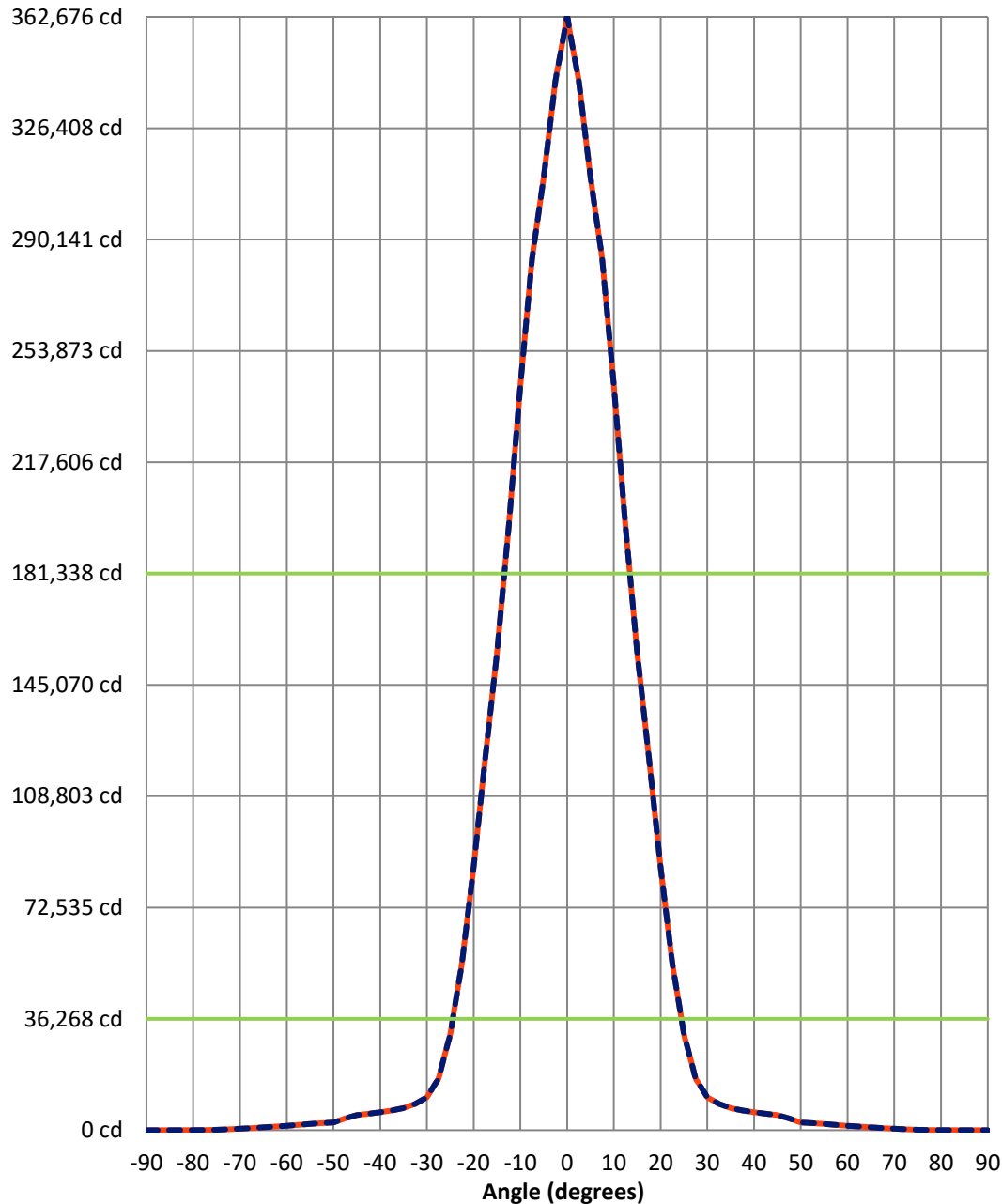
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 26.9°
 V Angle: 26.9°
 Lumens: 42471.3
 Efficiency: 43.4%

Field:
 H Angle: 48.9°
 V Angle: 48.9°
 Lumens: 81311.4
 Efficiency: 83.0%

Spill:
 Lumens: 16642.6
 Efficiency: 17.0%

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



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.3	0.6	0.9	1.1	1.4	1.7	2.0	2.3	2.5	2.8
85°	0.0	0.6	1.1	1.7	2.3	2.9	3.4	4.0	4.5	5.0	5.6
82.5°	0.0	0.9	1.7	2.6	3.4	4.3	5.1	5.9	6.7	7.3	7.9
80°	0.0	1.1	2.3	3.4	4.6	5.7	6.7	7.6	8.4	9.2	9.9
77.5°	0.0	1.4	2.9	4.3	5.7	7.0	8.0	9.0	10.0	11.0	12.3
75°	0.0	1.7	3.4	5.1	6.7	8.0	9.2	10.4	11.8	13.8	15.7
72.5°	0.0	2.0	4.0	5.9	7.6	9.0	10.4	12.1	14.5	16.8	19.1
70°	0.0	2.3	4.5	6.7	8.4	10.0	11.8	14.5	17.2	19.9	23.5
67.5°	0.0	2.5	5.0	7.3	9.2	11.0	13.8	16.8	19.9	24.0	28.1
65°	0.0	2.8	5.6	7.9	9.9	12.3	15.7	19.1	23.5	28.1	34.0
62.5°	0.0	3.0	6.1	8.5	10.7	13.9	17.7	22.0	27.1	32.9	42.9
60°	0.0	3.3	6.6	9.0	11.5	15.5	19.6	25.1	30.6	40.8	51.6
57.5°	0.0	3.5	7.0	9.6	12.7	17.1	22.1	28.1	36.7	48.5	74.2
55°	0.0	3.8	7.3	10.1	13.9	18.6	24.6	31.0	43.4	60.1	102.8
52.5°	0.0	4.0	7.7	10.6	15.0	20.1	27.0	36.4	49.9	85.1	130.6
50°	0.0	4.2	8.0	11.1	16.2	22.1	29.4	41.9	60.7	109.5	181.3
47.5°	0.0	4.5	8.3	11.7	17.3	24.0	31.9	47.2	81.6	133.0	233.1
45°	0.0	4.7	8.6	12.5	18.3	25.8	36.3	52.3	101.7	177.3	283.1
42.5°	0.0	4.9	8.9	13.2	19.3	27.5	40.5	64.2	121.0	220.5	341.9
40°	0.0	5.1	9.2	14.0	20.5	29.2	44.6	80.3	145.3	261.7	400.0
37.5°	0.0	5.2	9.5	14.6	21.7	30.8	48.4	95.6	180.1	303.9	455.5
35°	0.0	5.4	9.7	15.3	22.9	33.3	52.0	110.1	213.1	350.9	507.5
32.5°	0.0	5.6	10.0	15.9	24.0	36.1	57.8	123.7	244.1	395.3	555.9
30°	0.0	5.7	10.2	16.4	25.1	38.7	68.7	139.4	273.1	436.8	601.2
27.5°	0.0	5.9	10.4	17.0	26.1	41.2	78.8	162.9	302.8	475.5	643.4
25°	0.0	6.0	10.6	17.5	27.0	43.4	88.1	184.6	334.2	510.5	682.8
22.5°	0.0	6.1	10.8	17.9	27.8	45.5	96.6	204.3	362.9	542.3	727.8
20°	0.0	6.2	10.9	18.3	28.5	47.3	104.3	222.1	388.8	570.9	768.4
17.5°	0.0	6.3	11.0	18.6	29.2	49.0	111.1	237.8	411.8	596.3	804.6
15°	0.0	6.4	11.2	18.9	29.7	50.4	117.0	251.6	431.8	618.5	836.2
12.5°	0.0	6.4	11.3	19.2	30.2	51.6	122.0	263.3	448.8	637.4	863.0
10°	0.0	6.5	11.4	19.4	30.6	52.6	126.1	272.9	462.9	652.9	885.1
7.5°	0.0	6.5	11.4	19.6	30.9	53.4	129.3	280.4	473.8	665.1	902.4
5°	0.0	6.6	11.5	19.7	31.1	54.0	131.7	285.8	481.6	673.7	914.8
2.5°	0.0	6.6	11.5	19.8	31.3	54.3	133.0	289.0	486.3	679.0	922.2
0°	0.0	6.6	11.5	19.8	31.3	54.3	133.0	289.0	486.3	679.0	922.2
-2.5°	0.0	6.6	11.5	19.8	31.3	54.3	133.0	289.0	486.3	679.0	922.2
-5°	0.0	6.6	11.5	19.7	31.1	54.0	131.7	285.8	481.6	673.7	914.8
-7.5°	0.0	6.5	11.4	19.6	30.9	53.4	129.3	280.4	473.8	665.1	902.4
-10°	0.0	6.5	11.4	19.4	30.6	52.6	126.1	272.9	462.9	652.9	885.1
-12.5°	0.0	6.4	11.3	19.2	30.2	51.6	122.0	263.3	448.8	637.4	863.0
-15°	0.0	6.4	11.2	18.9	29.7	50.4	117.0	251.6	431.8	618.5	836.2
-17.5°	0.0	6.3	11.0	18.6	29.2	49.0	111.1	237.8	411.8	596.3	804.6
-20°	0.0	6.2	10.9	18.3	28.5	47.3	104.3	222.1	388.8	570.9	768.4



REPORT NUMBER: P701459 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	6.1	10.8	17.9	27.8	45.5	96.6	204.3	362.9	542.3	727.8
-25°	0.0	6.0	10.6	17.5	27.0	43.4	88.1	184.6	334.2	510.5	682.8
-27.5°	0.0	5.9	10.4	17.0	26.1	41.2	78.8	162.9	302.8	475.5	643.4
-30°	0.0	5.7	10.2	16.4	25.1	38.7	68.7	139.4	273.1	436.8	601.2
-32.5°	0.0	5.6	10.0	15.9	24.0	36.1	57.8	123.7	244.1	395.3	555.9
-35°	0.0	5.4	9.7	15.3	22.9	33.3	52.0	110.1	213.1	350.9	507.5
-37.5°	0.0	5.2	9.5	14.6	21.7	30.8	48.4	95.6	180.1	303.9	455.5
-40°	0.0	5.1	9.2	14.0	20.5	29.2	44.6	80.3	145.3	261.7	400.0
-42.5°	0.0	4.9	8.9	13.2	19.3	27.5	40.5	64.2	121.0	220.5	341.9
-45°	0.0	4.7	8.6	12.5	18.3	25.8	36.3	52.3	101.7	177.3	283.1
-47.5°	0.0	4.5	8.3	11.7	17.3	24.0	31.9	47.2	81.6	133.0	233.1
-50°	0.0	4.2	8.0	11.1	16.2	22.1	29.4	41.9	60.7	109.5	181.3
-52.5°	0.0	4.0	7.7	10.6	15.0	20.1	27.0	36.4	49.9	85.1	130.6
-55°	0.0	3.8	7.3	10.1	13.9	18.6	24.6	31.0	43.4	60.1	102.8
-57.5°	0.0	3.5	7.0	9.6	12.7	17.1	22.1	28.1	36.7	48.5	74.2
-60°	0.0	3.3	6.6	9.0	11.5	15.5	19.6	25.1	30.6	40.8	51.6
-62.5°	0.0	3.0	6.1	8.5	10.7	13.9	17.7	22.0	27.1	32.9	42.9
-65°	0.0	2.8	5.6	7.9	9.9	12.3	15.7	19.1	23.5	28.1	34.0
-67.5°	0.0	2.5	5.0	7.3	9.2	11.0	13.8	16.8	19.9	24.0	28.1
-70°	0.0	2.3	4.5	6.7	8.4	10.0	11.8	14.5	17.2	19.9	23.5
-72.5°	0.0	2.0	4.0	5.9	7.6	9.0	10.4	12.1	14.5	16.8	19.1
-75°	0.0	1.7	3.4	5.1	6.7	8.0	9.2	10.4	11.8	13.8	15.7
-77.5°	0.0	1.4	2.9	4.3	5.7	7.0	8.0	9.0	10.0	11.0	12.3
-80°	0.0	1.1	2.3	3.4	4.6	5.7	6.7	7.6	8.4	9.2	9.9
-82.5°	0.0	0.9	1.7	2.6	3.4	4.3	5.1	5.9	6.7	7.3	7.9
-85°	0.0	0.6	1.1	1.7	2.3	2.9	3.4	4.0	4.5	5.0	5.6
-87.5°	0.0	0.3	0.6	0.9	1.1	1.4	1.7	2.0	2.3	2.5	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



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 CATALOG NUMBER: EPH-LS-08-0640L-57-80-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	3.3	3.5	3.8	4.0	4.2	4.5	4.7	4.9	5.1	5.2
85°	6.1	6.6	7.0	7.3	7.7	8.0	8.3	8.6	8.9	9.2	9.5
82.5°	8.5	9.0	9.6	10.1	10.6	11.1	11.7	12.5	13.2	14.0	14.6
80°	10.7	11.5	12.7	13.9	15.0	16.2	17.3	18.3	19.3	20.5	21.7
77.5°	13.9	15.5	17.1	18.6	20.1	22.1	24.0	25.8	27.5	29.2	30.8
75°	17.7	19.6	22.1	24.6	27.0	29.4	31.9	36.3	40.5	44.6	48.4
72.5°	22.0	25.1	28.1	31.0	36.4	41.9	47.2	52.3	64.2	80.3	95.6
70°	27.1	30.6	36.7	43.4	49.9	60.7	81.6	101.7	121.0	145.3	180.1
67.5°	32.9	40.8	48.5	60.1	85.1	109.5	133.0	177.3	220.5	261.7	303.9
65°	42.9	51.6	74.2	102.8	130.6	181.3	233.1	283.1	341.9	400.0	455.5
62.5°	52.7	81.2	113.4	155.9	216.5	275.4	343.7	413.3	480.3	543.0	602.8
60°	81.2	117.0	170.1	237.8	307.6	388.8	467.5	542.3	613.7	682.8	765.7
57.5°	113.4	170.1	245.0	325.7	416.1	503.7	586.9	667.5	762.4	856.9	947.7
55°	155.9	237.8	325.7	425.2	521.6	614.0	709.9	820.0	926.4	1030.7	1130.6
52.5°	216.5	307.6	416.1	521.6	623.0	733.0	854.9	974.2	1090.8	1202.4	1307.3
50°	275.4	388.8	503.7	614.0	733.0	866.6	998.2	1127.2	1250.0	1367.3	1495.2
47.5°	343.7	467.5	586.9	709.9	854.9	998.2	1139.4	1274.0	1403.7	1555.9	1705.1
45°	413.3	542.3	667.5	820.0	974.2	1127.2	1274.0	1415.9	1586.5	1753.1	1919.3
42.5°	480.3	613.7	762.4	926.4	1090.8	1250.0	1403.7	1586.5	1769.4	1952.3	2112.1
40°	543.0	682.8	856.9	1030.7	1202.4	1367.3	1555.9	1753.1	1952.3	2126.1	2281.7
37.5°	602.8	765.7	947.7	1130.6	1307.3	1495.2	1705.1	1919.3	2112.1	2281.7	2419.6
35°	659.5	844.5	1035.4	1224.4	1407.4	1628.5	1853.8	2070.3	2253.2	2407.5	2786.9
32.5°	721.6	919.0	1118.5	1312.3	1522.9	1756.9	1995.8	2196.7	2371.4	2635.7	3562.0
30°	785.2	990.3	1196.0	1395.0	1633.8	1881.9	2113.2	2312.0	2477.8	3330.7	4218.7
27.5°	844.5	1056.9	1266.9	1485.7	1738.6	1999.1	2218.2	2405.6	2950.5	3959.7	4797.2
25°	899.2	1118.5	1332.6	1574.4	1839.3	2094.7	2311.5	2492.9	3525.0	4467.6	5090.8
22.5°	949.8	1174.8	1392.8	1655.8	1931.7	2178.1	2386.2	2922.8	4016.4	4925.9	5298.3
20°	995.9	1224.4	1454.8	1730.2	2015.6	2253.8	2454.3	3373.2	4417.1	5102.9	5496.8
17.5°	1037.0	1268.6	1515.0	1798.9	2080.2	2316.1	2566.1	3777.6	4777.6	5262.6	5680.2
15°	1072.9	1307.3	1567.6	1859.1	2134.9	2365.5	2894.4	4079.9	4990.1	5406.4	5843.8
12.5°	1103.4	1340.2	1612.5	1910.5	2181.6	2407.7	3175.6	4331.7	5102.2	5535.7	6015.9
10°	1128.6	1367.3	1649.5	1952.9	2220.1	2442.6	3408.2	4540.3	5195.2	5643.2	6159.3
7.5°	1148.2	1388.5	1678.4	1986.1	2250.3	2470.0	3590.6	4704.1	5268.3	5727.8	6272.4
5°	1162.3	1403.7	1699.2	2009.9	2272.0	2489.6	3721.8	4822.0	5321.0	5788.9	6354.1
2.5°	1170.8	1412.8	1711.6	2024.2	2285.0	2501.4	3800.9	4893.0	5352.8	5825.8	6403.5
0°	1173.6	1415.9	1715.8	2029.0	2289.4	2505.4	3827.3	4916.8	5363.4	5838.1	6420.0
-2.5°	1170.8	1412.8	1711.6	2024.2	2285.0	2501.4	3800.9	4893.0	5352.8	5825.8	6403.5
-5°	1162.3	1403.7	1699.2	2009.9	2272.0	2489.6	3721.8	4822.0	5321.0	5788.9	6354.1
-7.5°	1148.2	1388.5	1678.4	1986.1	2250.3	2470.0	3590.6	4704.1	5268.3	5727.8	6272.4
-10°	1128.6	1367.3	1649.5	1952.9	2220.1	2442.6	3408.2	4540.3	5195.2	5643.2	6159.3
-12.5°	1103.4	1340.2	1612.5	1910.5	2181.6	2407.7	3175.6	4331.7	5102.2	5535.7	6015.9
-15°	1072.9	1307.3	1567.6	1859.1	2134.9	2365.5	2894.4	4079.9	4990.1	5406.4	5843.8
-17.5°	1037.0	1268.6	1515.0	1798.9	2080.2	2316.1	2566.1	3777.6	4777.6	5262.6	5680.2
-20°	995.9	1224.4	1454.8	1730.2	2015.6	2253.8	2454.3	3373.2	4417.1	5102.9	5496.8



REPORT NUMBER: P701459 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	949.8	1174.8	1392.8	1655.8	1931.7	2178.1	2386.2	2922.8	4016.4	4925.9	5298.3
-25°	899.2	1118.5	1332.6	1574.4	1839.3	2094.7	2311.5	2492.9	3525.0	4467.6	5090.8
-27.5°	844.5	1056.9	1266.9	1485.7	1738.6	1999.1	2218.2	2405.6	2950.5	3959.7	4797.2
-30°	785.2	990.3	1196.0	1395.0	1633.8	1881.9	2113.2	2312.0	2477.8	3330.7	4218.7
-32.5°	721.6	919.0	1118.5	1312.3	1522.9	1756.9	1995.8	2196.7	2371.4	2635.7	3562.0
-35°	659.5	844.5	1035.4	1224.4	1407.4	1628.5	1853.8	2070.3	2253.2	2407.5	2786.9
-37.5°	602.8	765.7	947.7	1130.6	1307.3	1495.2	1705.1	1919.3	2112.1	2281.7	2419.6
-40°	543.0	682.8	856.9	1030.7	1202.4	1367.3	1555.9	1753.1	1952.3	2126.1	2281.7
-42.5°	480.3	613.7	762.4	926.4	1090.8	1250.0	1403.7	1586.5	1769.4	1952.3	2112.1
-45°	413.3	542.3	667.5	820.0	974.2	1127.2	1274.0	1415.9	1586.5	1753.1	1919.3
-47.5°	343.7	467.5	586.9	709.9	854.9	998.2	1139.4	1274.0	1403.7	1555.9	1705.1
-50°	275.4	388.8	503.7	614.0	733.0	866.6	998.2	1127.2	1250.0	1367.3	1495.2
-52.5°	216.5	307.6	416.1	521.6	623.0	733.0	854.9	974.2	1090.8	1202.4	1307.3
-55°	155.9	237.8	325.7	425.2	521.6	614.0	709.9	820.0	926.4	1030.7	1130.6
-57.5°	113.4	170.1	245.0	325.7	416.1	503.7	586.9	667.5	762.4	856.9	947.7
-60°	81.2	117.0	170.1	237.8	307.6	388.8	467.5	542.3	613.7	682.8	765.7
-62.5°	52.7	81.2	113.4	155.9	216.5	275.4	343.7	413.3	480.3	543.0	602.8
-65°	42.9	51.6	74.2	102.8	130.6	181.3	233.1	283.1	341.9	400.0	455.5
-67.5°	32.9	40.8	48.5	60.1	85.1	109.5	133.0	177.3	220.5	261.7	303.9
-70°	27.1	30.6	36.7	43.4	49.9	60.7	81.6	101.7	121.0	145.3	180.1
-72.5°	22.0	25.1	28.1	31.0	36.4	41.9	47.2	52.3	64.2	80.3	95.6
-75°	17.7	19.6	22.1	24.6	27.0	29.4	31.9	36.3	40.5	44.6	48.4
-77.5°	13.9	15.5	17.1	18.6	20.1	22.1	24.0	25.8	27.5	29.2	30.8
-80°	10.7	11.5	12.7	13.9	15.0	16.2	17.3	18.3	19.3	20.5	21.7
-82.5°	8.5	9.0	9.6	10.1	10.6	11.1	11.7	12.5	13.2	14.0	14.6
-85°	6.1	6.6	7.0	7.3	7.7	8.0	8.3	8.6	8.9	9.2	9.5
-87.5°	3.0	3.3	3.5	3.8	4.0	4.2	4.5	4.7	4.9	5.1	5.2
-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):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	5.6	5.7	5.9	6.0	6.1	6.2	6.3	6.4	6.4	6.5
85°	9.7	10.0	10.2	10.4	10.6	10.8	10.9	11.0	11.2	11.3	11.4
82.5°	15.3	15.9	16.4	17.0	17.5	17.9	18.3	18.6	18.9	19.2	19.4
80°	22.9	24.0	25.1	26.1	27.0	27.8	28.5	29.2	29.7	30.2	30.6
77.5°	33.3	36.1	38.7	41.2	43.4	45.5	47.3	49.0	50.4	51.6	52.6
75°	52.0	57.8	68.7	78.8	88.1	96.6	104.3	111.1	117.0	122.0	126.1
72.5°	110.1	123.7	139.4	162.9	184.6	204.3	222.1	237.8	251.6	263.3	272.9
70°	213.1	244.1	273.1	302.8	334.2	362.9	388.8	411.8	431.8	448.8	462.9
67.5°	350.9	395.3	436.8	475.5	510.5	542.3	570.9	596.3	618.5	637.4	652.9
65°	507.5	555.9	601.2	643.4	682.8	727.8	768.4	804.6	836.2	863.0	885.1
62.5°	659.5	721.6	785.2	844.5	899.2	949.8	995.9	1037.0	1072.9	1103.4	1128.6
60°	844.5	919.0	990.3	1056.9	1118.5	1174.8	1224.4	1268.6	1307.3	1340.2	1367.3
57.5°	1035.4	1118.5	1196.0	1266.9	1332.6	1392.8	1454.8	1515.0	1567.6	1612.5	1649.5
55°	1224.4	1312.3	1395.0	1485.7	1574.4	1655.8	1730.2	1798.9	1859.1	1910.5	1952.9
52.5°	1407.4	1522.9	1633.8	1738.6	1839.3	1931.7	2015.6	2080.2	2134.9	2181.6	2220.1
50°	1628.5	1756.9	1881.9	1999.1	2094.7	2178.1	2253.8	2316.1	2365.5	2407.7	2442.6
47.5°	1853.8	1995.8	2113.2	2218.2	2311.5	2386.2	2454.3	2566.1	2894.4	3175.6	3408.2
45°	2070.3	2196.7	2312.0	2405.6	2492.9	2922.8	3373.2	3777.6	4079.9	4331.7	4540.3
42.5°	2253.2	2371.4	2477.8	2950.5	3525.0	4016.4	4417.1	4777.6	4990.1	5102.2	5195.2
40°	2407.5	2635.7	3330.7	3959.7	4467.6	4925.9	5102.9	5262.6	5406.4	5535.7	5643.2
37.5°	2786.9	3562.0	4218.7	4797.2	5090.8	5298.3	5496.8	5680.2	5843.8	6015.9	6159.3
35°	3639.6	4349.7	4950.1	5203.0	5446.3	5682.9	5915.3	6158.0	6373.8	6607.0	6814.4
32.5°	4349.7	4977.8	5259.8	5539.2	5809.8	6114.3	6402.0	6744.1	7054.8	7428.1	7831.4
30°	4950.1	5259.8	5570.4	5882.4	6236.1	6617.9	7028.7	7570.1	8170.8	8764.8	9453.6
27.5°	5203.0	5539.2	5882.4	6277.2	6730.6	7211.7	7998.7	8807.4	9826.1	10719.6	12868.2
25°	5446.3	5809.8	6236.1	6730.6	7316.8	8217.1	9338.7	10559.8	13417.5	16207.5	20868.1
22.5°	5682.9	6114.3	6617.9	7211.7	8217.1	9518.3	11328.2	15095.4	20765.9	27925.0	35751.8
20°	5915.3	6402.0	7028.7	7998.7	9338.7	11328.2	15664.4	23569.0	32989.6	45649.5	57336.2
17.5°	6158.0	6744.1	7570.1	8807.4	10559.8	15095.4	23569.0	35409.4	50781.0	68315.6	84758.2
15°	6373.8	7054.8	8170.8	9826.1	13417.5	20765.9	32989.6	50781.0	72081.6	93819.3	114791.8
12.5°	6607.0	7428.1	8764.8	10719.6	16207.5	27925.0	45649.5	68315.6	93819.3	119885.6	142453.9
10°	6814.4	7831.4	9453.6	12868.2	20868.1	35751.8	57336.2	84758.2	114791.8	142453.9	169376.7
7.5°	6978.4	8151.2	10001.7	14591.3	25328.7	43732.1	69385.9	100101.9	131892.5	162550.1	196974.2
5°	7097.1	8383.1	10400.3	15848.7	28598.2	49615.5	78338.2	111724.6	144701.1	180439.2	219814.5
2.5°	7168.9	8523.8	10642.4	16614.4	30595.5	53224.9	83862.3	118955.5	152765.8	192444.0	236578.7
0°	7193.0	8570.9	10723.6	16871.6	31267.4	54441.9	85730.8	121412.3	155524.6	196584.4	242612.0
-2.5°	7168.9	8523.8	10642.4	16614.4	30595.5	53224.9	83862.3	118955.5	152765.8	192444.0	236578.7
-5°	7097.1	8383.1	10400.3	15848.7	28598.2	49615.5	78338.2	111724.6	144701.1	180439.2	219814.5
-7.5°	6978.4	8151.2	10001.7	14591.3	25328.7	43732.1	69385.9	100101.9	131892.5	162550.1	196974.2
-10°	6814.4	7831.4	9453.6	12868.2	20868.1	35751.8	57336.2	84758.2	114791.8	142453.9	169376.7
-12.5°	6607.0	7428.1	8764.8	10719.6	16207.5	27925.0	45649.5	68315.6	93819.3	119885.6	142453.9
-15°	6373.8	7054.8	8170.8	9826.1	13417.5	20765.9	32989.6	50781.0	72081.6	93819.3	114791.8
-17.5°	6158.0	6744.1	7570.1	8807.4	10559.8	15095.4	23569.0	35409.4	50781.0	68315.6	84758.2
-20°	5915.3	6402.0	7028.7	7998.7	9338.7	11328.2	15664.4	23569.0	32989.6	45649.5	57336.2



REPORT NUMBER: P701459 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	5682.9	6114.3	6617.9	7211.7	8217.1	9518.3	11328.2	15095.4	20765.9	27925.0	35751.8
-25°	5446.3	5809.8	6236.1	6730.6	7316.8	8217.1	9338.7	10559.8	13417.5	16207.5	20868.1
-27.5°	5203.0	5539.2	5882.4	6277.2	6730.6	7211.7	7998.7	8807.4	9826.1	10719.6	12868.2
-30°	4950.1	5259.8	5570.4	5882.4	6236.1	6617.9	7028.7	7570.1	8170.8	8764.8	9453.6
-32.5°	4349.7	4977.8	5259.8	5539.2	5809.8	6114.3	6402.0	6744.1	7054.8	7428.1	7831.4
-35°	3639.6	4349.7	4950.1	5203.0	5446.3	5682.9	5915.3	6158.0	6373.8	6607.0	6814.4
-37.5°	2786.9	3562.0	4218.7	4797.2	5090.8	5298.3	5496.8	5680.2	5843.8	6015.9	6159.3
-40°	2407.5	2635.7	3330.7	3959.7	4467.6	4925.9	5102.9	5262.6	5406.4	5535.7	5643.2
-42.5°	2253.2	2371.4	2477.8	2950.5	3525.0	4016.4	4417.1	4777.6	4990.1	5102.2	5195.2
-45°	2070.3	2196.7	2312.0	2405.6	2492.9	2922.8	3373.2	3777.6	4079.9	4331.7	4540.3
-47.5°	1853.8	1995.8	2113.2	2218.2	2311.5	2386.2	2454.3	2566.1	2894.4	3175.6	3408.2
-50°	1628.5	1756.9	1881.9	1999.1	2094.7	2178.1	2253.8	2316.1	2365.5	2407.7	2442.6
-52.5°	1407.4	1522.9	1633.8	1738.6	1839.3	1931.7	2015.6	2080.2	2134.9	2181.6	2220.1
-55°	1224.4	1312.3	1395.0	1485.7	1574.4	1655.8	1730.2	1798.9	1859.1	1910.5	1952.9
-57.5°	1035.4	1118.5	1196.0	1266.9	1332.6	1392.8	1454.8	1515.0	1567.6	1612.5	1649.5
-60°	844.5	919.0	990.3	1056.9	1118.5	1174.8	1224.4	1268.6	1307.3	1340.2	1367.3
-62.5°	659.5	721.6	785.2	844.5	899.2	949.8	995.9	1037.0	1072.9	1103.4	1128.6
-65°	507.5	555.9	601.2	643.4	682.8	727.8	768.4	804.6	836.2	863.0	885.1
-67.5°	350.9	395.3	436.8	475.5	510.5	542.3	570.9	596.3	618.5	637.4	652.9
-70°	213.1	244.1	273.1	302.8	334.2	362.9	388.8	411.8	431.8	448.8	462.9
-72.5°	110.1	123.7	139.4	162.9	184.6	204.3	222.1	237.8	251.6	263.3	272.9
-75°	52.0	57.8	68.7	78.8	88.1	96.6	104.3	111.1	117.0	122.0	126.1
-77.5°	33.3	36.1	38.7	41.2	43.4	45.5	47.3	49.0	50.4	51.6	52.6
-80°	22.9	24.0	25.1	26.1	27.0	27.8	28.5	29.2	29.7	30.2	30.6
-82.5°	15.3	15.9	16.4	17.0	17.5	17.9	18.3	18.6	18.9	19.2	19.4
-85°	9.7	10.0	10.2	10.4	10.6	10.8	10.9	11.0	11.2	11.3	11.4
-87.5°	5.4	5.6	5.7	5.9	6.0	6.1	6.2	6.3	6.4	6.4	6.5
-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: P701459 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.4	6.4	6.3
85°	11.4	11.5	11.5	11.5	11.5	11.5	11.4	11.4	11.3	11.2	11.0
82.5°	19.6	19.7	19.8	19.8	19.8	19.7	19.6	19.4	19.2	18.9	18.6
80°	30.9	31.1	31.3	31.3	31.3	31.1	30.9	30.6	30.2	29.7	29.2
77.5°	53.4	54.0	54.3	54.4	54.3	54.0	53.4	52.6	51.6	50.4	49.0
75°	129.3	131.7	133.0	133.5	133.0	131.7	129.3	126.1	122.0	117.0	111.1
72.5°	280.4	285.8	289.0	290.1	289.0	285.8	280.4	272.9	263.3	251.6	237.8
70°	473.8	481.6	486.3	487.9	486.3	481.6	473.8	462.9	448.8	431.8	411.8
67.5°	665.1	673.7	679.0	680.7	679.0	673.7	665.1	652.9	637.4	618.5	596.3
65°	902.4	914.8	922.2	924.7	922.2	914.8	902.4	885.1	863.0	836.2	804.6
62.5°	1148.2	1162.3	1170.8	1173.6	1170.8	1162.3	1148.2	1128.6	1103.4	1072.9	1037.0
60°	1388.5	1403.7	1412.8	1415.8	1412.8	1403.7	1388.5	1367.3	1340.2	1307.3	1268.6
57.5°	1678.4	1699.2	1711.6	1715.8	1711.6	1699.2	1678.4	1649.5	1612.5	1567.6	1515.0
55°	1986.1	2009.9	2024.2	2029.0	2024.2	2009.9	1986.1	1952.9	1910.5	1859.1	1798.9
52.5°	2250.3	2272.0	2285.0	2289.4	2285.0	2272.0	2250.3	2220.1	2181.6	2134.9	2080.2
50°	2470.0	2489.6	2501.4	2505.4	2501.4	2489.6	2470.0	2442.6	2407.7	2365.5	2316.1
47.5°	3590.6	3721.8	3800.9	3827.3	3800.9	3721.8	3590.6	3408.2	3175.6	2894.4	2566.1
45°	4704.1	4822.0	4893.0	4916.8	4893.0	4822.0	4704.1	4540.3	4331.7	4079.9	3777.6
42.5°	5268.3	5321.0	5352.8	5363.4	5352.8	5321.0	5268.3	5195.2	5102.2	4990.1	4777.6
40°	5727.8	5788.9	5825.8	5838.1	5825.8	5788.9	5727.8	5643.2	5535.7	5406.4	5262.6
37.5°	6272.4	6354.1	6403.5	6420.0	6403.5	6354.1	6272.4	6159.3	6015.9	5843.8	5680.2
35°	6978.4	7097.1	7168.9	7193.0	7168.9	7097.1	6978.4	6814.4	6607.0	6373.8	6158.0
32.5°	8151.2	8383.1	8523.8	8570.9	8523.8	8383.1	8151.2	7831.4	7428.1	7054.8	6744.1
30°	10001.7	10400.3	10642.4	10723.6	10642.4	10400.3	10001.7	9453.6	8764.8	8170.8	7570.1
27.5°	14591.3	15848.7	16614.4	16871.6	16614.4	15848.7	14591.3	12868.2	10719.6	9826.1	8807.4
25°	25328.7	28598.2	30595.5	31267.4	30595.5	28598.2	25328.7	20868.1	16207.5	13417.5	10559.8
22.5°	43732.1	49615.5	53224.9	54441.9	53224.9	49615.5	43732.1	35751.8	27925.0	20765.9	15095.4
20°	69385.9	78338.2	83862.3	85730.8	83862.3	78338.2	69385.9	57336.2	45649.5	32989.6	23569.0
17.5°	100101.9	111724.6	118955.5	121412.3	118955.5	111724.6	100101.9	84758.2	68315.6	50781.0	35409.4
15°	131892.5	144701.1	152765.8	155524.6	152765.8	144701.1	131892.5	114791.8	93819.3	72081.6	50781.0
12.5°	162550.1	180439.2	192444.0	196584.4	192444.0	180439.2	162550.1	142453.9	119885.6	93819.3	68315.6
10°	196974.2	219814.5	236578.7	242612.0	236578.7	219814.5	196974.2	169376.7	142453.9	114791.8	84758.2
7.5°	230900.8	261734.5	278790.2	283853.9	278790.2	261734.5	230900.8	196974.2	162550.1	131892.5	100101.9
5°	261734.5	289294.0	305069.2	310526.8	305069.2	289294.0	261734.5	219814.5	180439.2	144701.1	111724.6
2.5°	278790.2	305069.2	326966.6	341825.6	326966.6	305069.2	278790.2	236578.7	192444.0	152765.8	118955.5
0°	283853.9	310526.8	341825.6	362676.0	341825.6	310526.8	283853.9	242612.0	196584.4	155524.6	121412.3
-2.5°	278790.2	305069.2	326966.6	341825.6	326966.6	305069.2	278790.2	236578.7	192444.0	152765.8	118955.5
-5°	261734.5	289294.0	305069.2	310526.8	305069.2	289294.0	261734.5	219814.5	180439.2	144701.1	111724.6
-7.5°	230900.8	261734.5	278790.2	283853.9	278790.2	261734.5	230900.8	196974.2	162550.1	131892.5	100101.9
-10°	196974.2	219814.5	236578.7	242612.0	236578.7	219814.5	196974.2	169376.7	142453.9	114791.8	84758.2
-12.5°	162550.1	180439.2	192444.0	196584.4	192444.0	180439.2	162550.1	142453.9	119885.6	93819.3	68315.6
-15°	131892.5	144701.1	152765.8	155524.6	152765.8	144701.1	131892.5	114791.8	93819.3	72081.6	50781.0
-17.5°	100101.9	111724.6	118955.5	121412.3	118955.5	111724.6	100101.9	84758.2	68315.6	50781.0	35409.4
-20°	69385.9	78338.2	83862.3	85730.8	83862.3	78338.2	69385.9	57336.2	45649.5	32989.6	23569.0



REPORT NUMBER: P701459 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	43732.1	49615.5	53224.9	54441.9	53224.9	49615.5	43732.1	35751.8	27925.0	20765.9	15095.4
-25°	25328.7	28598.2	30595.5	31267.4	30595.5	28598.2	25328.7	20868.1	16207.5	13417.5	10559.8
-27.5°	14591.3	15848.7	16614.4	16871.6	16614.4	15848.7	14591.3	12868.2	10719.6	9826.1	8807.4
-30°	10001.7	10400.3	10642.4	10723.6	10642.4	10400.3	10001.7	9453.6	8764.8	8170.8	7570.1
-32.5°	8151.2	8383.1	8523.8	8570.9	8523.8	8383.1	8151.2	7831.4	7428.1	7054.8	6744.1
-35°	6978.4	7097.1	7168.9	7193.0	7168.9	7097.1	6978.4	6814.4	6607.0	6373.8	6158.0
-37.5°	6272.4	6354.1	6403.5	6420.0	6403.5	6354.1	6272.4	6159.3	6015.9	5843.8	5680.2
-40°	5727.8	5788.9	5825.8	5838.1	5825.8	5788.9	5727.8	5643.2	5535.7	5406.4	5262.6
-42.5°	5268.3	5321.0	5352.8	5363.4	5352.8	5321.0	5268.3	5195.2	5102.2	4990.1	4777.6
-45°	4704.1	4822.0	4893.0	4916.8	4893.0	4822.0	4704.1	4540.3	4331.7	4079.9	3777.6
-47.5°	3590.6	3721.8	3800.9	3827.3	3800.9	3721.8	3590.6	3408.2	3175.6	2894.4	2566.1
-50°	2470.0	2489.6	2501.4	2505.4	2501.4	2489.6	2470.0	2442.6	2407.7	2365.5	2316.1
-52.5°	2250.3	2272.0	2285.0	2289.4	2285.0	2272.0	2250.3	2220.1	2181.6	2134.9	2080.2
-55°	1986.1	2009.9	2024.2	2029.0	2024.2	2009.9	1986.1	1952.9	1910.5	1859.1	1798.9
-57.5°	1678.4	1699.2	1711.6	1715.8	1711.6	1699.2	1678.4	1649.5	1612.5	1567.6	1515.0
-60°	1388.5	1403.7	1412.8	1415.9	1412.8	1403.7	1388.5	1367.3	1340.2	1307.3	1268.6
-62.5°	1148.2	1162.3	1170.8	1173.6	1170.8	1162.3	1148.2	1128.6	1103.4	1072.9	1037.0
-65°	902.4	914.8	922.2	924.7	922.2	914.8	902.4	885.1	863.0	836.2	804.6
-67.5°	665.1	673.7	679.0	680.7	679.0	673.7	665.1	652.9	637.4	618.5	596.3
-70°	473.8	481.6	486.3	487.9	486.3	481.6	473.8	462.9	448.8	431.8	411.8
-72.5°	280.4	285.8	289.0	290.1	289.0	285.8	280.4	272.9	263.3	251.6	237.8
-75°	129.3	131.7	133.0	133.5	133.0	131.7	129.3	126.1	122.0	117.0	111.1
-77.5°	53.4	54.0	54.3	54.4	54.3	54.0	53.4	52.6	51.6	50.4	49.0
-80°	30.9	31.1	31.3	31.3	31.3	31.1	30.9	30.6	30.2	29.7	29.2
-82.5°	19.6	19.7	19.8	19.8	19.8	19.7	19.6	19.4	19.2	18.9	18.6
-85°	11.4	11.5	11.5	11.5	11.5	11.5	11.4	11.4	11.3	11.2	11.0
-87.5°	6.5	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.4	6.4	6.3
-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°	6.2	6.1	6.0	5.9	5.7	5.6	5.4	5.2	5.1	4.9	4.7
85°	10.9	10.8	10.6	10.4	10.2	10.0	9.7	9.5	9.2	8.9	8.6
82.5°	18.3	17.9	17.5	17.0	16.4	15.9	15.3	14.6	14.0	13.2	12.5
80°	28.5	27.8	27.0	26.1	25.1	24.0	22.9	21.7	20.5	19.3	18.3
77.5°	47.3	45.5	43.4	41.2	38.7	36.1	33.3	30.8	29.2	27.5	25.8
75°	104.3	96.6	88.1	78.8	68.7	57.8	52.0	48.4	44.6	40.5	36.3
72.5°	222.1	204.3	184.6	162.9	139.4	123.7	110.1	95.6	80.3	64.2	52.3
70°	388.8	362.9	334.2	302.8	273.1	244.1	213.1	180.1	145.3	121.0	101.7
67.5°	570.9	542.3	510.5	475.5	436.8	395.3	350.9	303.9	261.7	220.5	177.3
65°	768.4	727.8	682.8	643.4	601.2	555.9	507.5	455.5	400.0	341.9	283.1
62.5°	995.9	949.8	899.2	844.5	785.2	721.6	659.5	602.8	543.0	480.3	413.3
60°	1224.4	1174.8	1118.5	1056.9	990.3	919.0	844.5	765.7	682.8	613.7	542.3
57.5°	1454.8	1392.8	1332.6	1266.9	1196.0	1118.5	1035.4	947.7	856.9	762.4	667.5
55°	1730.2	1655.8	1574.4	1485.7	1395.0	1312.3	1224.4	1130.6	1030.7	926.4	820.0
52.5°	2015.6	1931.7	1839.3	1738.6	1633.8	1522.9	1407.4	1307.3	1202.4	1090.8	974.2
50°	2253.8	2178.1	2094.7	1999.1	1881.9	1756.9	1628.5	1495.2	1367.3	1250.0	1127.2
47.5°	2454.3	2386.2	2311.5	2218.2	2113.2	1995.8	1853.8	1705.1	1555.9	1403.7	1274.0
45°	3373.2	2922.8	2492.9	2405.6	2312.0	2196.7	2070.3	1919.3	1753.1	1586.5	1415.9
42.5°	4417.1	4016.4	3525.0	2950.5	2477.8	2371.4	2253.2	2112.1	1952.3	1769.4	1586.5
40°	5102.9	4925.9	4467.6	3959.7	3330.7	2635.7	2407.5	2281.7	2126.1	1952.3	1753.1
37.5°	5496.8	5298.3	5090.8	4797.2	4218.7	3562.0	2786.9	2419.6	2281.7	2112.1	1919.3
35°	5915.3	5682.9	5446.3	5203.0	4950.1	4349.7	3639.6	2786.9	2407.5	2253.2	2070.3
32.5°	6402.0	6114.3	5809.8	5539.2	5259.8	4977.8	4349.7	3562.0	2635.7	2371.4	2196.7
30°	7028.7	6617.9	6236.1	5882.4	5570.4	5259.8	4950.1	4218.7	3330.7	2477.8	2312.0
27.5°	7998.7	7211.7	6730.6	6277.2	5882.4	5539.2	5203.0	4797.2	3959.7	2950.5	2405.6
25°	9338.7	8217.1	7316.8	6730.6	6236.1	5809.8	5446.3	5090.8	4467.6	3525.0	2492.9
22.5°	11328.2	9518.3	8217.1	7211.7	6617.9	6114.3	5682.9	5298.3	4925.9	4016.4	2922.8
20°	15664.4	11328.2	9338.7	7998.7	7028.7	6402.0	5915.3	5496.8	5102.9	4417.1	3373.2
17.5°	23569.0	15095.4	10559.8	8807.4	7570.1	6744.1	6158.0	5680.2	5262.6	4777.6	3777.6
15°	32989.6	20765.9	13417.5	9826.1	8170.8	7054.8	6373.8	5843.8	5406.4	4990.1	4079.9
12.5°	45649.5	27925.0	16207.5	10719.6	8764.8	7428.1	6607.0	6015.9	5535.7	5102.2	4331.7
10°	57336.2	35751.8	20868.1	12868.2	9453.6	7831.4	6814.4	6159.3	5643.2	5195.2	4540.3
7.5°	69385.9	43732.1	25328.7	14591.3	10001.7	8151.2	6978.4	6272.4	5727.8	5268.3	4704.1
5°	78338.2	49615.5	28598.2	15848.7	10400.3	8383.1	7097.1	6354.1	5788.9	5321.0	4822.0
2.5°	83862.3	53224.9	30595.5	16614.4	10642.4	8523.8	7168.9	6403.5	5825.8	5352.8	4893.0
0°	85730.8	54441.9	31267.4	16871.6	10723.6	8570.9	7193.0	6420.0	5838.1	5363.4	4916.8
-2.5°	83862.3	53224.9	30595.5	16614.4	10642.4	8523.8	7168.9	6403.5	5825.8	5352.8	4893.0
-5°	78338.2	49615.5	28598.2	15848.7	10400.3	8383.1	7097.1	6354.1	5788.9	5321.0	4822.0
-7.5°	69385.9	43732.1	25328.7	14591.3	10001.7	8151.2	6978.4	6272.4	5727.8	5268.3	4704.1
-10°	57336.2	35751.8	20868.1	12868.2	9453.6	7831.4	6814.4	6159.3	5643.2	5195.2	4540.3
-12.5°	45649.5	27925.0	16207.5	10719.6	8764.8	7428.1	6607.0	6015.9	5535.7	5102.2	4331.7
-15°	32989.6	20765.9	13417.5	9826.1	8170.8	7054.8	6373.8	5843.8	5406.4	4990.1	4079.9
-17.5°	23569.0	15095.4	10559.8	8807.4	7570.1	6744.1	6158.0	5680.2	5262.6	4777.6	3777.6
-20°	15664.4	11328.2	9338.7	7998.7	7028.7	6402.0	5915.3	5496.8	5102.9	4417.1	3373.2



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	11328.2	9518.3	8217.1	7211.7	6617.9	6114.3	5682.9	5298.3	4925.9	4016.4	2922.8
-25°	9338.7	8217.1	7316.8	6730.6	6236.1	5809.8	5446.3	5090.8	4467.6	3525.0	2492.9
-27.5°	7998.7	7211.7	6730.6	6277.2	5882.4	5539.2	5203.0	4797.2	3959.7	2950.5	2405.6
-30°	7028.7	6617.9	6236.1	5882.4	5570.4	5259.8	4950.1	4218.7	3330.7	2477.8	2312.0
-32.5°	6402.0	6114.3	5809.8	5539.2	5259.8	4977.8	4349.7	3562.0	2635.7	2371.4	2196.7
-35°	5915.3	5682.9	5446.3	5203.0	4950.1	4349.7	3639.6	2786.9	2407.5	2253.2	2070.3
-37.5°	5496.8	5298.3	5090.8	4797.2	4218.7	3562.0	2786.9	2419.6	2281.7	2112.1	1919.3
-40°	5102.9	4925.9	4467.6	3959.7	3330.7	2635.7	2407.5	2281.7	2126.1	1952.3	1753.1
-42.5°	4417.1	4016.4	3525.0	2950.5	2477.8	2371.4	2253.2	2112.1	1952.3	1769.4	1586.5
-45°	3373.2	2922.8	2492.9	2405.6	2312.0	2196.7	2070.3	1919.3	1753.1	1586.5	1415.9
-47.5°	2454.3	2386.2	2311.5	2218.2	2113.2	1995.8	1853.8	1705.1	1555.9	1403.7	1274.0
-50°	2253.8	2178.1	2094.7	1999.1	1881.9	1756.9	1628.5	1495.2	1367.3	1250.0	1127.2
-52.5°	2015.6	1931.7	1839.3	1738.6	1633.8	1522.9	1407.4	1307.3	1202.4	1090.8	974.2
-55°	1730.2	1655.8	1574.4	1485.7	1395.0	1312.3	1224.4	1130.6	1030.7	926.4	820.0
-57.5°	1454.8	1392.8	1332.6	1266.9	1196.0	1118.5	1035.4	947.7	856.9	762.4	667.5
-60°	1224.4	1174.8	1118.5	1056.9	990.3	919.0	844.5	765.7	682.8	613.7	542.3
-62.5°	995.9	949.8	899.2	844.5	785.2	721.6	659.5	602.8	543.0	480.3	413.3
-65°	768.4	727.8	682.8	643.4	601.2	555.9	507.5	455.5	400.0	341.9	283.1
-67.5°	570.9	542.3	510.5	475.5	436.8	395.3	350.9	303.9	261.7	220.5	177.3
-70°	388.8	362.9	334.2	302.8	273.1	244.1	213.1	180.1	145.3	121.0	101.7
-72.5°	222.1	204.3	184.6	162.9	139.4	123.7	110.1	95.6	80.3	64.2	52.3
-75°	104.3	96.6	88.1	78.8	68.7	57.8	52.0	48.4	44.6	40.5	36.3
-77.5°	47.3	45.5	43.4	41.2	38.7	36.1	33.3	30.8	29.2	27.5	25.8
-80°	28.5	27.8	27.0	26.1	25.1	24.0	22.9	21.7	20.5	19.3	18.3
-82.5°	18.3	17.9	17.5	17.0	16.4	15.9	15.3	14.6	14.0	13.2	12.5
-85°	10.9	10.8	10.6	10.4	10.2	10.0	9.7	9.5	9.2	8.9	8.6
-87.5°	6.2	6.1	6.0	5.9	5.7	5.6	5.4	5.2	5.1	4.9	4.7
-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-08-0640L-57-80-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	4.2	4.0	3.8	3.5	3.3	3.0	2.8	2.5	2.3	2.0
85°	8.3	8.0	7.7	7.3	7.0	6.6	6.1	5.6	5.0	4.5	4.0
82.5°	11.7	11.1	10.6	10.1	9.6	9.0	8.5	7.9	7.3	6.7	5.9
80°	17.3	16.2	15.0	13.9	12.7	11.5	10.7	9.9	9.2	8.4	7.6
77.5°	24.0	22.1	20.1	18.6	17.1	15.5	13.9	12.3	11.0	10.0	9.0
75°	31.9	29.4	27.0	24.6	22.1	19.6	17.7	15.7	13.8	11.8	10.4
72.5°	47.2	41.9	36.4	31.0	28.1	25.1	22.0	19.1	16.8	14.5	12.1
70°	81.6	60.7	49.9	43.4	36.7	30.6	27.1	23.5	19.9	17.2	14.5
67.5°	133.0	109.5	85.1	60.1	48.5	40.8	32.9	28.1	24.0	19.9	16.8
65°	233.1	181.3	130.6	102.8	74.2	51.6	42.9	34.0	28.1	23.5	19.1
62.5°	343.7	275.4	216.5	155.9	113.4	81.2	52.7	42.9	32.9	27.1	22.0
60°	467.5	388.8	307.6	237.8	170.1	117.0	81.2	51.6	40.8	30.6	25.1
57.5°	586.9	503.7	416.1	325.7	245.0	170.1	113.4	74.2	48.5	36.7	28.1
55°	709.9	614.0	521.6	425.2	325.7	237.8	155.9	102.8	60.1	43.4	31.0
52.5°	854.9	733.0	623.0	521.6	416.1	307.6	216.5	130.6	85.1	49.9	36.4
50°	998.2	866.6	733.0	614.0	503.7	388.8	275.4	181.3	109.5	60.7	41.9
47.5°	1139.4	998.2	854.9	709.9	586.9	467.5	343.7	233.1	133.0	81.6	47.2
45°	1274.0	1127.2	974.2	820.0	667.5	542.3	413.3	283.1	177.3	101.7	52.3
42.5°	1403.7	1250.0	1090.8	926.4	762.4	613.7	480.3	341.9	220.5	121.0	64.2
40°	1555.9	1367.3	1202.4	1030.7	856.9	682.8	543.0	400.0	261.7	145.3	80.3
37.5°	1705.1	1495.2	1307.3	1130.6	947.7	765.7	602.8	455.5	303.9	180.1	95.6
35°	1853.8	1628.5	1407.4	1224.4	1035.4	844.5	659.5	507.5	350.9	213.1	110.1
32.5°	1995.8	1756.9	1522.9	1312.3	1118.5	919.0	721.6	555.9	395.3	244.1	123.7
30°	2113.2	1881.9	1633.8	1395.0	1196.0	990.3	785.2	601.2	436.8	273.1	139.4
27.5°	2218.2	1999.1	1738.6	1485.7	1266.9	1056.9	844.5	643.4	475.5	302.8	162.9
25°	2311.5	2094.7	1839.3	1574.4	1332.6	1118.5	899.2	682.8	510.5	334.2	184.6
22.5°	2386.2	2178.1	1931.7	1655.8	1392.8	1174.8	949.8	727.8	542.3	362.9	204.3
20°	2454.3	2253.8	2015.6	1730.2	1454.8	1224.4	995.9	768.4	570.9	388.8	222.1
17.5°	2566.1	2316.1	2080.2	1798.9	1515.0	1268.6	1037.0	804.6	596.3	411.8	237.8
15°	2894.4	2365.5	2134.9	1859.1	1567.6	1307.3	1072.9	836.2	618.5	431.8	251.6
12.5°	3175.6	2407.7	2181.6	1910.5	1612.5	1340.2	1103.4	863.0	637.4	448.8	263.3
10°	3408.2	2442.6	2220.1	1952.9	1649.5	1367.3	1128.6	885.1	652.9	462.9	272.9
7.5°	3590.6	2470.0	2250.3	1986.1	1678.4	1388.5	1148.2	902.4	665.1	473.8	280.4
5°	3721.8	2489.6	2272.0	2009.9	1699.2	1403.7	1162.3	914.8	673.7	481.6	285.8
2.5°	3800.9	2501.4	2285.0	2024.2	1711.6	1412.8	1170.8	922.2	679.0	486.3	289.0
0°	3827.3	2505.4	2289.4	2029.0	1715.8	1415.9	1173.6	924.7	680.7	487.9	290.1
-2.5°	3800.9	2501.4	2285.0	2024.2	1711.6	1412.8	1170.8	922.2	679.0	486.3	289.0
-5°	3721.8	2489.6	2272.0	2009.9	1699.2	1403.7	1162.3	914.8	673.7	481.6	285.8
-7.5°	3590.6	2470.0	2250.3	1986.1	1678.4	1388.5	1148.2	902.4	665.1	473.8	280.4
-10°	3408.2	2442.6	2220.1	1952.9	1649.5	1367.3	1128.6	885.1	652.9	462.9	272.9
-12.5°	3175.6	2407.7	2181.6	1910.5	1612.5	1340.2	1103.4	863.0	637.4	448.8	263.3
-15°	2894.4	2365.5	2134.9	1859.1	1567.6	1307.3	1072.9	836.2	618.5	431.8	251.6
-17.5°	2566.1	2316.1	2080.2	1798.9	1515.0	1268.6	1037.0	804.6	596.3	411.8	237.8
-20°	2454.3	2253.8	2015.6	1730.2	1454.8	1224.4	995.9	768.4	570.9	388.8	222.1



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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°	2386.2	2178.1	1931.7	1655.8	1392.8	1174.8	949.8	727.8	542.3	362.9	204.3
-25°	2311.5	2094.7	1839.3	1574.4	1332.6	1118.5	899.2	682.8	510.5	334.2	184.6
-27.5°	2218.2	1999.1	1738.6	1485.7	1266.9	1056.9	844.5	643.4	475.5	302.8	162.9
-30°	2113.2	1881.9	1633.8	1395.0	1196.0	990.3	785.2	601.2	436.8	273.1	139.4
-32.5°	1995.8	1756.9	1522.9	1312.3	1118.5	919.0	721.6	555.9	395.3	244.1	123.7
-35°	1853.8	1628.5	1407.4	1224.4	1035.4	844.5	659.5	507.5	350.9	213.1	110.1
-37.5°	1705.1	1495.2	1307.3	1130.6	947.7	765.7	602.8	455.5	303.9	180.1	95.6
-40°	1555.9	1367.3	1202.4	1030.7	856.9	682.8	543.0	400.0	261.7	145.3	80.3
-42.5°	1403.7	1250.0	1090.8	926.4	762.4	613.7	480.3	341.9	220.5	121.0	64.2
-45°	1274.0	1127.2	974.2	820.0	667.5	542.3	413.3	283.1	177.3	101.7	52.3
-47.5°	1139.4	998.2	854.9	709.9	586.9	467.5	343.7	233.1	133.0	81.6	47.2
-50°	998.2	866.6	733.0	614.0	503.7	388.8	275.4	181.3	109.5	60.7	41.9
-52.5°	854.9	733.0	623.0	521.6	416.1	307.6	216.5	130.6	85.1	49.9	36.4
-55°	709.9	614.0	521.6	425.2	325.7	237.8	155.9	102.8	60.1	43.4	31.0
-57.5°	586.9	503.7	416.1	325.7	245.0	170.1	113.4	74.2	48.5	36.7	28.1
-60°	467.5	388.8	307.6	237.8	170.1	117.0	81.2	51.6	40.8	30.6	25.1
-62.5°	343.7	275.4	216.5	155.9	113.4	81.2	52.7	42.9	32.9	27.1	22.0
-65°	233.1	181.3	130.6	102.8	74.2	51.6	42.9	34.0	28.1	23.5	19.1
-67.5°	133.0	109.5	85.1	60.1	48.5	40.8	32.9	28.1	24.0	19.9	16.8
-70°	81.6	60.7	49.9	43.4	36.7	30.6	27.1	23.5	19.9	17.2	14.5
-72.5°	47.2	41.9	36.4	31.0	28.1	25.1	22.0	19.1	16.8	14.5	12.1
-75°	31.9	29.4	27.0	24.6	22.1	19.6	17.7	15.7	13.8	11.8	10.4
-77.5°	24.0	22.1	20.1	18.6	17.1	15.5	13.9	12.3	11.0	10.0	9.0
-80°	17.3	16.2	15.0	13.9	12.7	11.5	10.7	9.9	9.2	8.4	7.6
-82.5°	11.7	11.1	10.6	10.1	9.6	9.0	8.5	7.9	7.3	6.7	5.9
-85°	8.3	8.0	7.7	7.3	7.0	6.6	6.1	5.6	5.0	4.5	4.0
-87.5°	4.5	4.2	4.0	3.8	3.5	3.3	3.0	2.8	2.5	2.3	2.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	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°	1.7	1.4	1.1	0.9	0.6	0.3	0.0
85°	3.4	2.9	2.3	1.7	1.1	0.6	0.0
82.5°	5.1	4.3	3.4	2.6	1.7	0.9	0.0
80°	6.7	5.7	4.6	3.4	2.3	1.1	0.0
77.5°	8.0	7.0	5.7	4.3	2.9	1.4	0.0
75°	9.2	8.0	6.7	5.1	3.4	1.7	0.0
72.5°	10.4	9.0	7.6	5.9	4.0	2.0	0.0
70°	11.8	10.0	8.4	6.7	4.5	2.3	0.0
67.5°	13.8	11.0	9.2	7.3	5.0	2.5	0.0
65°	15.7	12.3	9.9	7.9	5.6	2.8	0.0
62.5°	17.7	13.9	10.7	8.5	6.1	3.0	0.0
60°	19.6	15.5	11.5	9.0	6.6	3.3	0.0
57.5°	22.1	17.1	12.7	9.6	7.0	3.5	0.0
55°	24.6	18.6	13.9	10.1	7.3	3.8	0.0
52.5°	27.0	20.1	15.0	10.6	7.7	4.0	0.0
50°	29.4	22.1	16.2	11.1	8.0	4.2	0.0
47.5°	31.9	24.0	17.3	11.7	8.3	4.5	0.0
45°	36.3	25.8	18.3	12.5	8.6	4.7	0.0
42.5°	40.5	27.5	19.3	13.2	8.9	4.9	0.0
40°	44.6	29.2	20.5	14.0	9.2	5.1	0.0
37.5°	48.4	30.8	21.7	14.6	9.5	5.2	0.0
35°	52.0	33.3	22.9	15.3	9.7	5.4	0.0
32.5°	57.8	36.1	24.0	15.9	10.0	5.6	0.0
30°	68.7	38.7	25.1	16.4	10.2	5.7	0.0
27.5°	78.8	41.2	26.1	17.0	10.4	5.9	0.0
25°	88.1	43.4	27.0	17.5	10.6	6.0	0.0
22.5°	96.6	45.5	27.8	17.9	10.8	6.1	0.0
20°	104.3	47.3	28.5	18.3	10.9	6.2	0.0
17.5°	111.1	49.0	29.2	18.6	11.0	6.3	0.0
15°	117.0	50.4	29.7	18.9	11.2	6.4	0.0
12.5°	122.0	51.6	30.2	19.2	11.3	6.4	0.0
10°	126.1	52.6	30.6	19.4	11.4	6.5	0.0
7.5°	129.3	53.4	30.9	19.6	11.4	6.5	0.0
5°	131.7	54.0	31.1	19.7	11.5	6.6	0.0
2.5°	133.0	54.3	31.3	19.8	11.5	6.6	0.0
0°	133.5	54.4	31.3	19.8	11.5	6.6	0.0
-2.5°	133.0	54.3	31.3	19.8	11.5	6.6	0.0
-5°	131.7	54.0	31.1	19.7	11.5	6.6	0.0
-7.5°	129.3	53.4	30.9	19.6	11.4	6.5	0.0
-10°	126.1	52.6	30.6	19.4	11.4	6.5	0.0
-12.5°	122.0	51.6	30.2	19.2	11.3	6.4	0.0
-15°	117.0	50.4	29.7	18.9	11.2	6.4	0.0
-17.5°	111.1	49.0	29.2	18.6	11.0	6.3	0.0
-20°	104.3	47.3	28.5	18.3	10.9	6.2	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	96.6	45.5	27.8	17.9	10.8	6.1	0.0
-25°	88.1	43.4	27.0	17.5	10.6	6.0	0.0
-27.5°	78.8	41.2	26.1	17.0	10.4	5.9	0.0
-30°	68.7	38.7	25.1	16.4	10.2	5.7	0.0
-32.5°	57.8	36.1	24.0	15.9	10.0	5.6	0.0
-35°	52.0	33.3	22.9	15.3	9.7	5.4	0.0
-37.5°	48.4	30.8	21.7	14.6	9.5	5.2	0.0
-40°	44.6	29.2	20.5	14.0	9.2	5.1	0.0
-42.5°	40.5	27.5	19.3	13.2	8.9	4.9	0.0
-45°	36.3	25.8	18.3	12.5	8.6	4.7	0.0
-47.5°	31.9	24.0	17.3	11.7	8.3	4.5	0.0
-50°	29.4	22.1	16.2	11.1	8.0	4.2	0.0
-52.5°	27.0	20.1	15.0	10.6	7.7	4.0	0.0
-55°	24.6	18.6	13.9	10.1	7.3	3.8	0.0
-57.5°	22.1	17.1	12.7	9.6	7.0	3.5	0.0
-60°	19.6	15.5	11.5	9.0	6.6	3.3	0.0
-62.5°	17.7	13.9	10.7	8.5	6.1	3.0	0.0
-65°	15.7	12.3	9.9	7.9	5.6	2.8	0.0
-67.5°	13.8	11.0	9.2	7.3	5.0	2.5	0.0
-70°	11.8	10.0	8.4	6.7	4.5	2.3	0.0
-72.5°	10.4	9.0	7.6	5.9	4.0	2.0	0.0
-75°	9.2	8.0	6.7	5.1	3.4	1.7	0.0
-77.5°	8.0	7.0	5.7	4.3	2.9	1.4	0.0
-80°	6.7	5.7	4.6	3.4	2.3	1.1	0.0
-82.5°	5.1	4.3	3.4	2.6	1.7	0.9	0.0
-85°	3.4	2.9	2.3	1.7	1.1	0.6	0.0
-87.5°	1.7	1.4	1.1	0.9	0.6	0.3	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)

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

Scaled Data Report



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

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

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

Scaled Data Report

