

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: P735980 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-40-80-4S-VHE-S**

Issue Date: 1/29/2024

Test Information

Test Method: LM-79-08
Report Number: P735980 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0640L-40-80-4S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 4S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

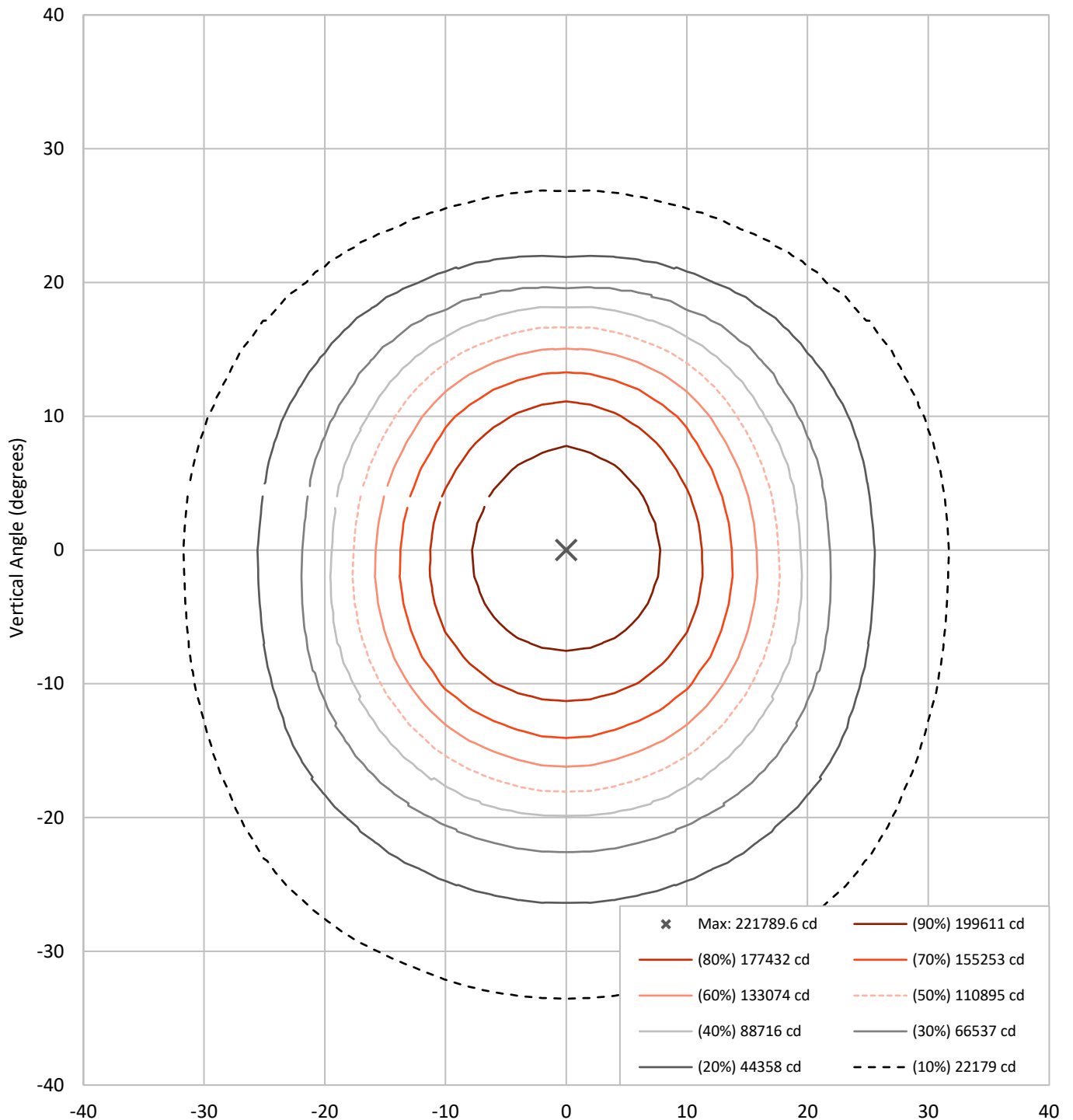
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	92002.8 lumens	Max Intensity:	221789.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	139.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	35.2°H x 34.7°V	Field Angle (10%):	63.4°H x 60.3°V
Beam Lumens:	49380.6 lumens	Field Lumens:	80357 lumens
Beam Efficiency:	53.7%	Field Efficiency:	87.3%

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





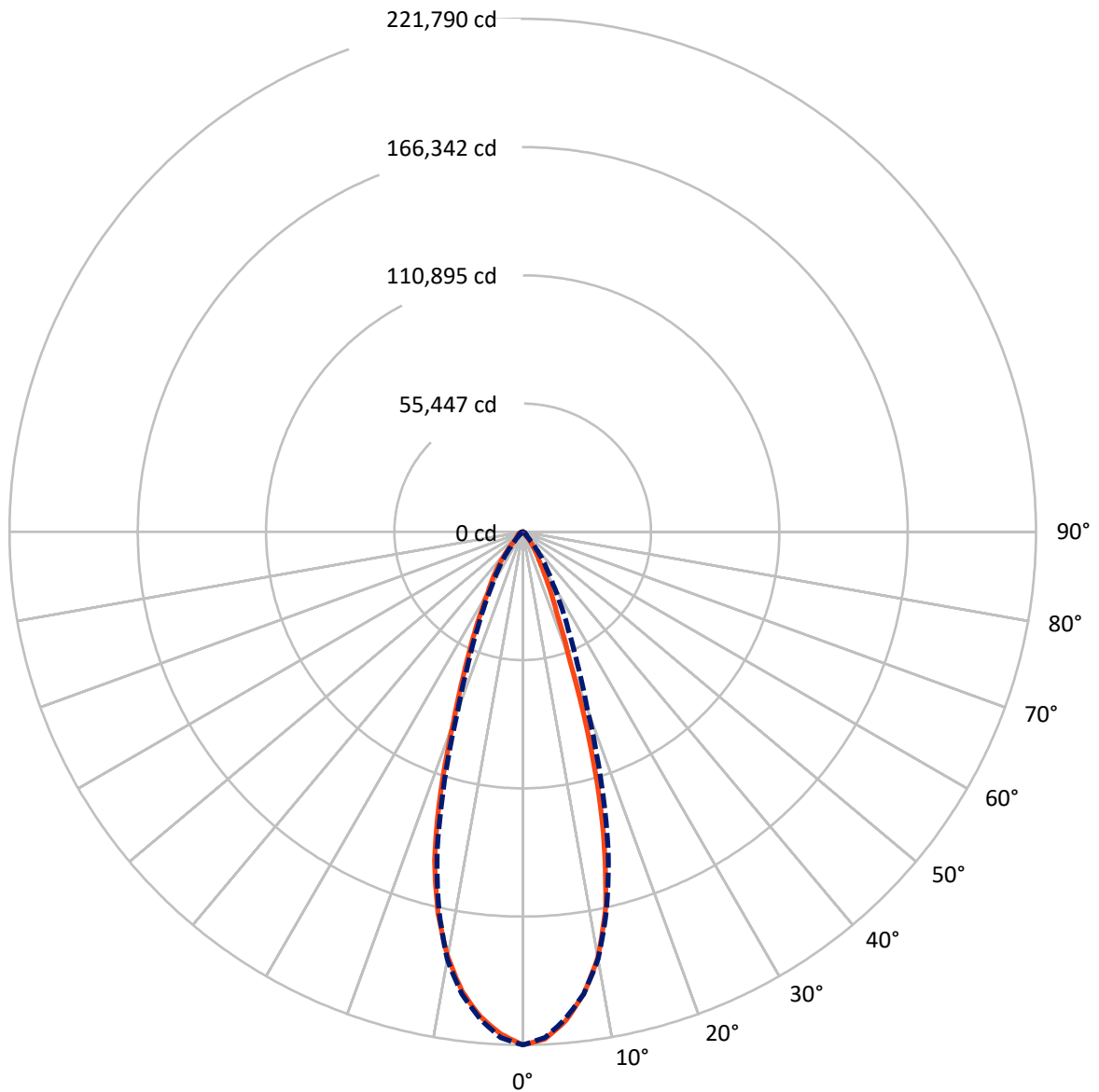
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Lumen Table

90	0.3	1.0	1.7	2.4	2.7	2.4	1.7	1.0	0.3										
80	0.3	0.2	0.2	0.6	0.8	0.7	0.6	0.8	0.8	0.6	0.7	0.8	0.6	0.2	0.2	0.3			
70																			
60	0.3	0.4	0.7	1.3	1.2	0.9	1.1	1.3	1.3	1.1	0.9	1.2	1.3	0.7	0.4	0.3			
50																			
40	0.9	1.1	2.6	5.3	9.6	15.3	22.3	28.8	28.8	22.3	15.3	9.6	5.3	2.6	1.1	0.9			
30																			
20	2.0	4.8	14.6	28.3	88.8	273.1	596.0	903.8	903.8	596.0	273.1	88.8	28.3	14.6	4.8	2.0			
10																			
0	3.0	8.0	22.5	62.7	361.7	1258.0	3723.3	5962.1	5962.1	3723.3	1258.0	361.7	62.7	22.5	8.0	3.0			
-10																			
-20	3.4	9.2	26.4	64.6	309.4	976.0	2457.1	4036.7	4036.7	2457.1	976.0	309.4	64.6	26.4	9.2	3.4			
-30																			
-40	3.2	7.3	23.6	46.4	81.8	201.1	405.2	560.2	560.2	405.2	201.1	81.8	46.4	23.6	7.3	3.2			
-50																			
-60	2.7	4.3	11.1	24.1	41.6	56.1	67.7	76.0	76.0	67.7	56.1	41.6	24.1	11.1	4.3	2.7			
-70																			
-80	2.0	11.6	26.3	42.5	52.2	42.5	26.3	11.6	2.0										
-90																			

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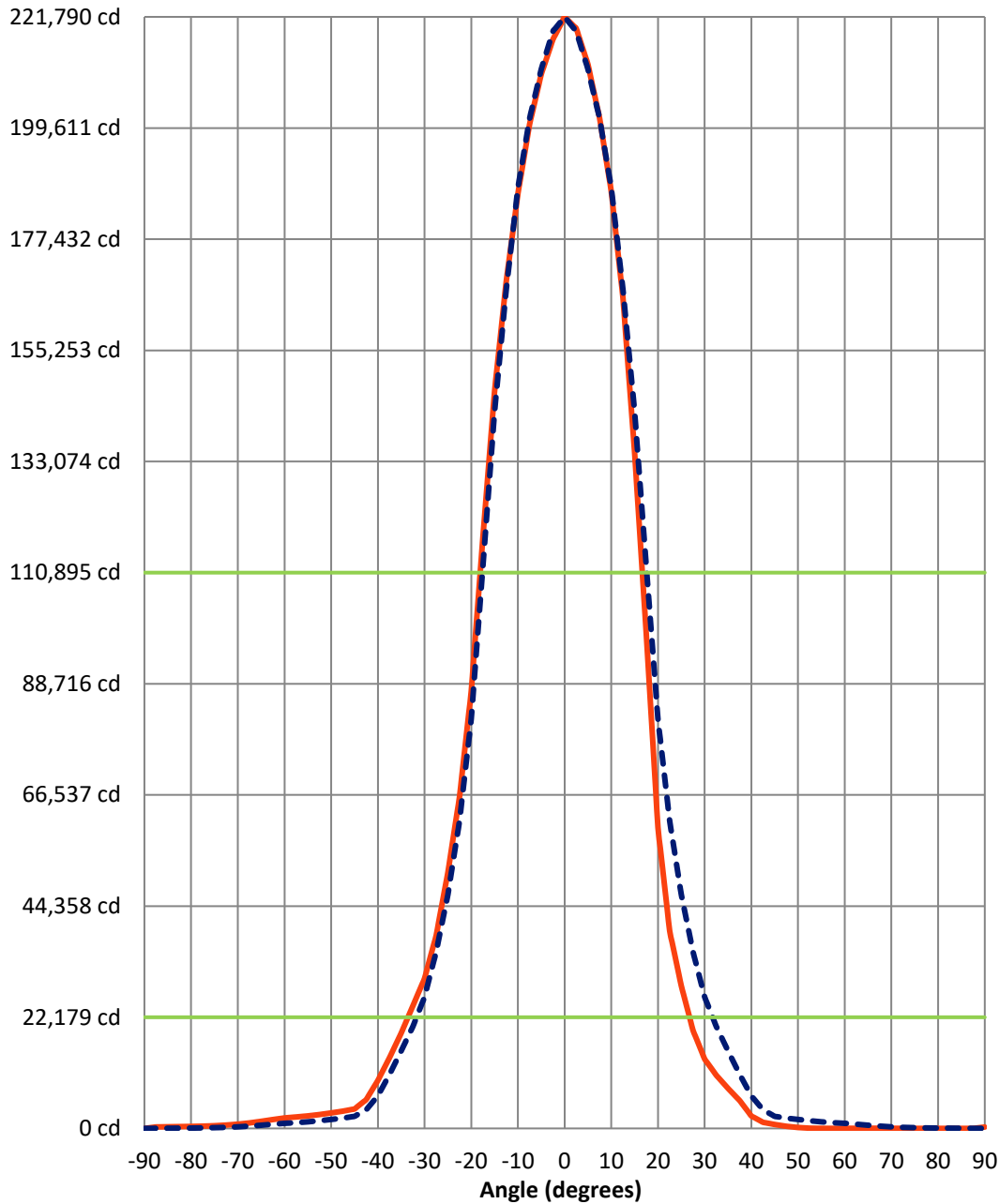
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 35.2°
 V Angle: 34.7°
 Lumens: 49380.6
 Efficiency: 53.7%

Field:
 H Angle: 63.4°
 V Angle: 60.3°
 Lumens: 80357
 Efficiency: 87.3%

Spill:
 Lumens: 11645.7
 Efficiency: 12.7%

— 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°	9.9	18.6	27.4	44.9	62.5	78.4	94.4	107.0	119.6	127.9	136.1
87.5°	9.9	9.0	7.9	8.0	8.1	8.1	8.0	7.5	7.0	7.0	7.1
85°	9.9	9.2	8.1	8.3	8.5	8.4	8.3	7.8	7.4	7.4	7.5
82.5°	9.9	9.4	8.3	8.6	8.8	8.8	8.6	8.2	7.8	7.9	8.0
80°	9.9	9.6	8.5	8.8	9.2	9.2	8.9	8.7	8.6	8.6	8.5
77.5°	9.9	9.8	8.7	9.1	9.6	9.6	9.5	9.4	9.3	9.3	8.9
75°	9.9	10.0	9.0	9.4	10.0	10.1	10.1	10.1	10.1	9.7	9.1
72.5°	9.9	10.2	9.2	9.7	10.4	10.6	10.7	10.8	10.6	10.0	9.2
70°	9.9	10.4	9.5	10.0	10.8	11.0	11.3	11.3	11.1	10.5	10.1
67.5°	9.9	10.6	9.8	10.4	11.2	11.5	12.0	12.0	11.7	11.4	11.1
65°	9.9	10.8	10.1	10.9	11.7	12.3	12.9	12.6	13.0	12.3	12.5
62.5°	9.9	11.1	10.4	11.3	12.2	13.3	13.8	14.1	14.5	13.7	14.9
60°	9.9	11.3	10.8	11.8	12.7	14.3	14.8	16.0	16.2	17.3	17.7
57.5°	9.9	11.5	11.4	12.2	13.8	15.4	16.9	18.0	20.1	21.5	23.9
55°	9.9	11.7	12.0	12.7	15.0	16.6	19.2	20.4	25.0	27.2	32.1
52.5°	9.9	12.0	12.7	13.2	16.3	17.9	21.6	25.3	30.2	36.7	41.0
50°	9.9	12.2	13.4	13.7	17.6	20.4	24.1	30.6	37.0	46.9	53.1
47.5°	9.9	12.5	14.2	14.3	19.0	23.0	27.0	36.2	47.1	57.8	66.8
45°	9.9	12.7	15.0	15.4	20.5	25.7	32.0	41.9	57.7	71.3	81.5
42.5°	9.9	12.9	15.8	16.5	22.0	28.5	37.1	50.1	68.8	85.4	105.1
40°	9.9	13.2	16.7	18.1	23.9	31.5	42.5	60.1	81.0	100.2	132.4
37.5°	9.9	13.4	17.5	20.1	26.2	34.5	48.2	70.2	95.1	119.4	162.0
35°	9.9	13.6	18.5	22.0	28.5	38.5	53.8	80.6	109.8	146.8	197.8
32.5°	9.9	13.9	19.4	24.0	30.9	43.0	60.3	90.9	125.0	174.9	238.7
30°	9.9	14.1	20.4	25.9	33.2	47.5	68.6	101.5	140.7	203.5	277.7
27.5°	9.9	14.3	21.4	27.9	36.4	51.8	76.8	113.0	157.9	232.5	314.7
25°	9.9	14.6	22.4	29.9	39.6	56.0	84.7	124.1	177.8	262.7	349.9
22.5°	9.9	14.8	23.4	31.9	42.8	60.4	92.3	134.5	196.4	286.1	385.8
20°	9.9	15.0	24.4	33.9	45.9	65.4	99.6	144.4	213.7	308.0	414.9
17.5°	9.9	15.2	25.4	35.9	48.9	70.3	107.2	153.7	229.6	328.3	442.0
15°	9.9	15.4	26.4	37.8	51.8	75.0	114.7	163.0	244.1	346.9	467.6
12.5°	9.9	15.6	27.4	39.7	54.6	79.5	121.7	172.4	258.6	363.8	491.3
10°	9.9	15.8	28.3	41.6	57.3	83.8	128.2	181.3	273.0	385.6	517.4
7.5°	9.9	16.0	29.3	43.4	59.9	87.9	134.3	189.5	286.0	407.0	550.9
5°	9.9	16.2	30.2	45.1	62.4	91.8	139.8	196.9	297.5	427.0	582.4
2.5°	9.9	16.3	31.0	46.7	64.7	95.4	144.8	203.7	307.6	445.0	611.5
0°	9.9	16.5	31.8	48.3	66.9	98.7	149.2	209.6	316.0	460.8	637.5
-2.5°	9.9	17.1	33.0	50.3	70.0	102.7	154.3	216.8	327.1	473.8	650.5
-5°	9.9	17.7	34.2	52.3	73.0	106.4	158.9	223.0	336.3	484.1	660.0
-7.5°	9.9	18.2	35.3	54.1	75.8	109.7	162.7	228.4	343.5	491.7	666.0
-10°	9.9	18.8	36.3	55.8	78.4	112.7	166.0	232.7	348.5	496.5	668.6
-12.5°	9.9	19.3	37.2	57.4	80.8	115.3	168.5	235.9	351.1	498.3	671.5
-15°	9.9	19.8	38.1	58.9	82.9	117.6	170.3	238.0	350.7	496.1	671.4
-17.5°	9.9	20.2	38.9	60.2	84.9	119.5	171.4	239.4	347.3	490.6	665.8
-20°	9.9	20.7	39.7	61.4	86.6	121.1	172.3	240.1	341.8	481.7	654.3



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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°	9.9	21.1	40.3	62.4	88.1	122.2	173.1	239.7	334.2	469.4	637.2
-25°	9.9	21.5	40.9	63.3	89.3	123.7	173.2	238.3	324.5	453.6	619.4
-27.5°	9.9	21.8	41.4	64.0	90.3	125.0	172.5	235.9	312.7	440.1	604.2
-30°	9.9	22.1	41.8	64.6	91.0	125.8	170.9	232.4	305.7	427.5	584.3
-32.5°	9.9	22.4	42.2	65.0	92.2	126.2	168.6	229.4	301.7	411.7	559.3
-35°	9.9	22.7	42.4	65.2	93.2	126.2	167.7	225.9	295.9	392.5	529.2
-37.5°	9.9	22.9	42.6	65.3	93.9	126.2	167.2	221.3	288.5	370.1	500.5
-40°	9.9	23.0	42.6	65.2	94.3	126.8	166.2	215.5	279.3	355.7	472.4
-42.5°	9.9	23.1	42.6	65.1	94.6	127.0	164.4	208.5	270.4	343.8	441.0
-45°	9.9	23.2	42.5	65.3	94.8	126.9	161.9	202.5	260.9	329.6	409.1
-47.5°	9.9	23.3	42.4	65.2	94.7	126.4	158.9	198.9	250.0	313.4	390.4
-50°	9.9	23.3	42.1	65.2	94.3	125.6	157.3	194.7	237.4	298.8	369.2
-52.5°	9.9	23.3	41.8	65.1	93.7	124.5	155.6	189.9	229.1	282.5	344.7
-55°	9.9	23.2	41.3	64.8	92.7	122.9	153.5	184.8	222.3	264.4	321.3
-57.5°	9.9	23.1	40.8	64.4	91.5	121.1	151.1	181.8	214.5	252.9	296.2
-60°	9.9	22.9	40.2	63.8	90.1	118.9	148.2	178.1	206.7	242.6	273.9
-62.5°	9.9	22.7	39.6	63.0	88.8	116.3	144.9	173.7	201.2	230.9	259.7
-65°	9.9	22.5	38.9	62.0	87.4	113.4	141.2	168.7	195.1	221.4	244.9
-67.5°	9.9	22.3	38.1	60.9	85.7	110.5	137.1	163.2	188.4	212.4	233.2
-70°	9.9	22.0	37.2	59.6	83.8	107.6	132.5	157.2	181.4	203.0	222.6
-72.5°	9.9	21.6	36.2	58.2	81.6	104.3	128.0	150.9	173.9	193.6	211.6
-75°	9.9	21.3	35.2	56.7	79.3	100.7	123.1	144.5	166.0	183.7	200.3
-77.5°	9.9	20.9	34.0	55.1	76.9	96.9	117.9	137.7	157.8	173.6	188.7
-80°	9.9	20.5	32.8	53.3	74.3	93.3	112.4	130.6	149.1	163.3	177.0
-82.5°	9.9	20.1	31.5	51.4	71.6	89.9	108.0	124.0	140.2	152.8	165.2
-85°	9.9	19.6	30.2	49.3	68.7	86.2	103.7	118.5	133.4	143.9	154.3
-87.5°	9.9	19.1	28.8	47.2	65.7	82.4	99.1	112.8	126.6	136.0	145.3
-90°	9.9	8.8	7.7	7.7	7.7	7.7	7.7	7.2	6.6	6.6	6.6



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 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	142.1	148.1	153.6	159.1	165.7	172.3	178.9	185.4	192.6	199.7	206.9
87.5°	6.6	6.1	6.1	6.1	5.6	5.1	4.8	4.4	4.4	4.4	4.3
85°	7.1	6.6	6.6	6.6	6.2	5.8	5.4	4.9	4.9	5.0	4.7
82.5°	7.6	7.2	7.0	6.6	6.5	6.5	6.1	5.7	5.6	5.5	5.2
80°	8.2	7.8	7.3	7.0	6.9	6.7	6.5	6.4	6.1	5.7	5.6
77.5°	8.4	7.8	7.6	7.6	7.3	6.7	6.6	6.6	6.5	6.4	6.2
75°	8.4	7.9	7.8	7.8	7.4	6.8	6.6	6.8	6.9	6.7	6.5
72.5°	8.9	8.6	8.3	8.0	7.7	7.4	7.4	7.6	8.2	8.8	9.3
70°	9.8	9.4	9.1	8.8	8.4	8.4	9.3	11.2	13.0	13.7	15.5
67.5°	10.9	10.6	10.3	10.0	10.0	10.9	12.2	16.2	19.7	22.1	24.7
65°	12.0	11.8	11.8	12.0	12.1	15.4	19.0	23.0	29.2	32.7	32.8
62.5°	13.4	15.1	14.4	15.3	18.5	22.0	27.5	34.7	42.5	45.7	43.7
60°	19.0	19.8	20.3	22.7	25.7	29.6	37.2	46.0	55.0	60.5	52.4
57.5°	26.1	27.3	29.3	30.8	34.2	36.4	45.5	56.2	62.0	65.4	56.3
55°	35.1	36.8	39.9	40.5	43.4	44.3	51.9	59.2	64.1	65.2	55.3
52.5°	46.5	48.4	52.8	53.5	53.6	54.6	55.6	63.6	67.6	66.4	57.4
50°	58.8	65.5	67.9	70.4	67.1	68.5	64.9	74.2	82.0	79.9	82.6
47.5°	76.8	85.4	88.8	93.3	91.0	98.5	95.8	113.5	119.6	155.1	163.0
45°	98.6	113.7	118.3	128.8	139.4	148.2	176.7	179.0	253.8	285.0	343.8
42.5°	124.8	148.4	167.5	171.5	222.4	249.5	289.2	354.5	420.2	480.3	520.3
40°	163.7	188.1	229.1	276.9	331.0	389.4	442.3	518.2	581.8	629.0	657.3
37.5°	207.9	254.3	310.3	396.5	469.6	529.1	589.3	654.8	714.7	756.2	810.3
35°	256.4	324.1	427.8	517.5	596.0	652.0	710.8	780.3	836.8	903.8	970.6
32.5°	315.3	395.3	525.3	622.3	686.0	752.4	820.1	893.3	974.2	1056.7	1142.3
30°	373.6	475.5	602.6	703.3	765.0	842.3	924.7	1010.4	1116.7	1220.6	1336.2
27.5°	419.5	544.4	665.2	769.3	841.2	932.7	1033.3	1145.2	1271.3	1398.5	1552.1
25°	460.5	595.6	728.4	838.7	930.0	1031.4	1149.7	1283.9	1434.0	1612.9	2095.7
22.5°	500.4	645.4	798.1	913.1	1015.7	1130.3	1272.8	1429.6	1606.2	1843.9	2697.8
20°	541.4	701.9	864.8	974.9	1093.9	1222.4	1389.3	1571.2	1790.2	2351.8	3611.2
17.5°	583.5	760.2	921.6	1029.1	1154.5	1311.2	1505.3	1710.4	1977.4	2827.3	4755.2
15°	624.6	815.2	967.2	1077.2	1215.4	1397.7	1614.5	1865.8	2308.8	3491.0	5901.3
12.5°	663.9	864.5	1001.1	1118.4	1275.5	1479.2	1715.8	1997.9	2698.2	4386.6	7151.6
10°	700.9	908.2	1030.5	1157.8	1334.2	1555.8	1806.5	2114.1	3038.2	5102.4	8141.4
7.5°	740.9	945.7	1057.1	1195.2	1388.3	1625.9	1881.3	2203.5	3291.5	5651.2	8876.5
5°	777.3	976.1	1087.9	1239.1	1442.0	1689.1	1945.3	2278.4	3464.4	5999.0	9386.8
2.5°	809.0	1000.4	1116.5	1280.7	1492.5	1744.6	2003.2	2353.5	3618.6	6293.1	10032.5
0°	836.1	1019.3	1142.2	1317.8	1536.1	1790.7	2050.7	2413.9	3721.7	6491.1	10781.2
-2.5°	852.7	1047.6	1185.0	1356.7	1572.1	1823.4	2093.6	2478.4	3826.2	6919.1	11066.4
-5°	864.5	1070.4	1223.4	1390.8	1601.2	1847.3	2124.9	2524.1	3871.1	7036.9	10983.3
-7.5°	871.4	1087.0	1256.3	1420.6	1627.2	1875.0	2174.4	2585.3	3891.5	6746.7	10512.7
-10°	875.1	1100.9	1277.9	1445.2	1651.4	1900.5	2213.0	2624.7	3807.9	6355.2	9971.2
-12.5°	884.5	1112.8	1295.0	1463.5	1667.5	1918.9	2243.1	2654.5	3617.5	5817.1	9226.9
-15°	886.9	1118.9	1309.4	1476.0	1684.2	1945.7	2265.8	2659.6	3342.5	5121.8	8276.6
-17.5°	882.0	1119.3	1319.4	1485.8	1692.6	1956.0	2273.0	2645.0	3137.1	4616.6	7320.5
-20°	869.1	1106.2	1322.4	1486.7	1689.5	1960.2	2276.6	2638.7	3087.0	4100.1	6161.0



REPORT NUMBER: P735980 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	848.3	1085.5	1311.7	1485.1	1700.5	1962.1	2266.1	2599.6	2978.3	3477.1	5006.8
-25°	825.9	1056.1	1283.9	1490.4	1702.6	1953.0	2221.8	2528.0	2877.7	3267.8	4183.2
-27.5°	801.7	1021.8	1255.4	1483.8	1692.2	1918.7	2168.4	2455.4	2743.4	3058.5	3448.3
-30°	772.5	984.6	1217.1	1459.8	1667.6	1879.3	2109.5	2341.5	2599.7	2883.3	3213.5
-32.5°	737.5	940.8	1169.8	1409.5	1635.1	1833.4	2026.0	2234.3	2464.6	2714.8	2987.9
-35°	699.4	896.4	1114.2	1348.2	1595.4	1777.6	1944.9	2125.1	2329.1	2557.6	2811.3
-37.5°	660.9	845.1	1049.0	1277.2	1517.5	1708.2	1859.0	2027.1	2206.8	2402.4	2638.4
-40°	617.1	786.1	981.1	1196.7	1409.8	1615.9	1781.5	1934.0	2091.9	2270.9	2463.6
-42.5°	569.9	728.7	906.6	1102.1	1295.6	1492.1	1699.5	1849.4	1990.6	2142.6	2311.5
-45°	530.5	665.3	826.1	1000.0	1174.5	1364.8	1564.9	1765.2	1894.1	2025.7	2169.6
-47.5°	484.9	601.0	748.1	892.9	1053.9	1233.3	1423.0	1608.7	1791.8	1919.8	2040.9
-50°	441.4	546.5	658.9	792.1	935.6	1101.2	1275.0	1444.7	1616.4	1789.8	1927.9
-52.5°	411.4	488.1	585.6	690.9	823.5	969.9	1122.3	1273.6	1434.8	1600.2	1759.4
-55°	379.0	444.8	514.3	603.7	712.9	843.3	970.0	1105.6	1244.1	1396.7	1551.8
-57.5°	348.3	402.7	457.2	525.2	617.1	716.7	827.8	939.2	1064.7	1192.5	1325.3
-60°	317.8	362.4	408.8	463.0	526.3	610.3	690.7	787.7	892.0	997.0	1115.1
-62.5°	288.7	325.0	363.6	409.4	462.3	511.9	578.4	653.5	728.7	821.8	917.4
-65°	271.5	291.7	322.0	361.7	403.0	446.8	490.0	536.0	601.5	670.9	738.8
-67.5°	253.3	271.9	290.8	315.3	351.4	385.6	420.3	460.8	502.6	547.5	597.0
-70°	239.6	252.6	269.3	288.6	307.5	328.2	359.1	391.3	423.4	458.4	497.2
-72.5°	226.6	238.8	251.3	264.9	281.4	297.2	313.5	330.9	356.2	387.0	415.8
-75°	213.6	224.8	236.3	248.2	260.6	272.6	285.4	301.0	318.4	337.3	354.9
-77.5°	200.4	210.8	221.2	231.5	242.7	254.4	265.4	276.6	290.2	304.8	318.7
-80°	187.2	196.5	206.2	215.8	225.6	235.7	245.5	254.8	266.6	279.2	291.5
-82.5°	174.5	183.2	191.6	199.9	208.5	216.8	225.6	234.4	245.2	256.3	266.7
-85°	162.1	169.9	176.9	183.9	191.8	199.5	207.0	214.5	224.4	234.2	243.3
-87.5°	152.2	159.0	165.0	171.0	178.0	184.9	191.4	197.8	206.2	214.7	222.4
-90°	6.1	5.5	5.5	5.5	5.0	4.4	4.4	4.4	4.4	4.4	3.9



REPORT NUMBER: P735980 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	214.0	218.9	223.8	227.1	230.4	235.4	240.3	247.5	254.6	260.6	266.6
87.5°	4.2	3.8	3.3	3.2	3.2	3.2	3.2	2.7	2.2	2.2	2.2
85°	4.4	4.2	4.1	4.2	4.2	3.8	3.3	3.3	3.2	3.2	3.3
82.5°	4.9	4.7	4.4	4.4	4.4	4.3	4.2	3.8	3.3	3.3	3.3
80°	5.5	5.2	5.0	4.7	4.4	4.4	4.4	3.9	3.3	3.3	3.3
77.5°	5.7	5.6	5.5	5.1	4.5	4.4	4.4	3.9	3.4	3.3	3.3
75°	6.5	6.4	6.3	6.1	6.0	6.2	6.5	6.3	6.0	5.7	5.4
72.5°	9.9	9.9	9.7	10.3	10.9	11.4	11.7	12.0	12.4	13.3	14.2
70°	17.5	18.8	18.9	18.9	18.8	18.3	17.6	17.4	17.6	17.9	18.3
67.5°	26.3	27.4	27.9	28.2	25.7	24.0	23.4	23.5	24.5	26.5	29.3
65°	33.6	31.6	29.7	27.8	28.0	27.9	26.6	26.0	26.9	28.1	29.4
62.5°	40.0	31.8	26.5	23.9	24.3	25.2	22.8	20.9	20.4	20.0	20.1
60°	43.0	29.9	21.1	17.9	16.0	15.1	13.5	11.5	10.9	10.7	11.0
57.5°	43.4	28.5	16.8	13.3	10.2	7.8	6.6	5.8	5.8	5.6	5.4
55°	42.0	28.8	16.3	14.9	13.7	12.5	10.9	10.6	10.1	10.0	10.6
52.5°	43.5	40.4	33.0	32.0	39.1	39.3	33.8	41.7	47.0	51.1	52.9
50°	86.1	82.7	104.5	104.5	126.5	145.4	140.0	151.0	170.1	186.6	196.8
47.5°	201.2	217.0	249.7	279.0	312.2	354.0	372.5	385.7	402.4	424.7	439.7
45°	374.7	414.0	456.4	503.9	559.3	608.3	636.8	664.3	682.5	702.4	725.9
42.5°	556.4	603.2	666.1	722.9	782.9	840.1	885.2	925.0	1002.5	1113.1	1201.1
40°	712.0	765.2	838.2	913.9	984.6	1057.0	1256.2	1426.1	1637.6	1953.5	2233.5
37.5°	866.4	927.9	1009.4	1102.2	1315.3	1531.1	1966.2	2436.3	2843.6	3300.3	3761.5
35°	1034.7	1115.4	1224.5	1536.6	1931.1	2506.3	3130.3	3828.5	4421.1	5058.8	5993.1
32.5°	1233.4	1374.5	1727.2	2294.4	3001.8	3818.9	4593.0	5470.6	6210.7	7382.4	8809.3
30°	1489.6	1932.1	2609.1	3392.3	4346.9	5381.2	6351.6	7773.0	9433.7	10903.7	12117.7
27.5°	2107.5	2962.2	3907.5	4900.0	6095.4	7348.6	9383.5	11223.2	13010.0	14597.2	16441.3
25°	3030.2	4401.3	6016.8	7347.4	8971.7	11236.6	13537.6	15563.7	18279.3	20667.7	23346.9
22.5°	4335.2	6287.6	8368.4	10311.2	12805.7	15642.3	18738.2	22471.4	26243.8	30434.0	34161.8
20°	5609.0	8079.1	10714.3	13511.0	16705.7	20252.4	25313.0	31371.6	37184.6	43786.3	49353.0
17.5°	7305.2	10291.4	13407.8	16962.9	21070.3	26526.8	33996.2	42280.5	51269.5	61127.5	70243.6
15°	9030.1	12247.2	15868.4	20418.4	26228.2	33644.0	43173.2	54450.8	67596.5	82088.2	99706.3
12.5°	10443.8	13961.6	18196.0	23930.0	31528.6	41446.0	52991.4	66567.0	84589.3	106446.8	126915.7
10°	11651.6	15869.6	21220.4	28006.6	36944.4	48140.2	61255.8	78063.3	102340.3	127661.3	150124.1
7.5°	12895.7	17885.7	23552.5	30910.3	41072.6	53780.9	69931.3	91879.6	118590.7	144561.7	165161.1
5°	14069.2	19260.5	25024.0	32885.1	43874.7	57523.4	75847.9	102581.0	131648.4	157085.3	176438.3
2.5°	14988.4	19951.9	25798.9	34355.7	45389.4	59557.4	79556.8	109198.5	139690.2	164759.4	184604.5
0°	15465.2	20327.0	26228.9	35275.4	46645.8	61424.2	81683.2	112118.8	142961.4	167374.4	187601.6
-2.5°	15359.7	20145.9	25962.6	34565.6	46358.7	61761.9	83451.2	113640.6	143524.9	168266.4	187329.3
-5°	15137.7	19860.8	25597.2	33693.4	45330.5	60912.9	81531.4	109286.7	138148.2	163527.3	182059.6
-7.5°	14724.1	19383.4	24868.3	32417.6	43626.5	58382.3	76988.6	101107.0	128794.6	154222.7	172163.4
-10°	14115.6	18645.8	23822.3	30688.2	40754.7	54307.7	70126.2	88961.0	114861.7	138635.5	158570.0
-12.5°	13250.8	17602.5	22371.1	28271.1	37286.1	49230.0	62867.1	78516.5	97028.0	119956.2	138641.7
-15°	12150.3	16242.9	20674.0	26240.8	33778.8	43565.1	55062.9	67203.2	81391.7	97218.5	115431.9
-17.5°	10799.6	14644.0	18770.4	23569.6	29665.8	37876.6	46971.8	56444.7	66686.2	78333.3	89033.7
-20°	9189.0	12705.4	16594.0	21058.0	26281.7	32212.3	38824.0	46482.1	54420.6	62733.3	70088.2



REPORT NUMBER: P735980 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	7553.6	10761.4	14466.9	18370.1	22910.4	27437.3	31878.1	37572.1	43702.6	49720.6	55195.1
-25°	5910.2	8742.1	12187.4	15848.4	19492.5	23190.3	26795.9	30331.6	34743.1	38616.7	42634.7
-27.5°	4694.4	6812.8	9705.8	12900.7	16076.1	19161.6	22278.9	25232.4	28014.5	30353.8	33062.7
-30°	3691.9	5121.8	7356.7	9870.8	12649.2	15367.8	18054.1	20549.0	22739.8	24665.9	26547.1
-32.5°	3337.9	3921.8	5249.9	7160.4	9352.4	11737.4	13982.8	16125.8	17931.9	19721.9	21407.5
-35°	3087.7	3409.2	3843.4	5036.9	6464.4	8362.4	10122.5	11901.0	13417.8	15205.5	16587.8
-37.5°	2882.6	3130.2	3404.8	3686.3	4554.4	5504.6	6771.9	8105.0	9276.9	10776.5	11996.9
-40°	2684.1	2903.3	3117.9	3331.9	3562.8	3774.9	4529.1	5216.6	6011.5	7037.3	7915.1
-42.5°	2492.2	2685.2	2871.1	3045.0	3206.2	3345.5	3497.3	3642.8	4072.1	4594.9	4996.5
-45°	2319.8	2484.0	2639.6	2786.6	2909.5	3021.0	3137.9	3259.7	3419.3	3564.3	3684.1
-47.5°	2173.4	2303.2	2430.6	2550.4	2644.8	2739.9	2833.0	2938.1	3062.4	3184.2	3286.0
-50°	2041.0	2153.2	2249.9	2334.8	2413.3	2493.8	2567.9	2661.3	2761.3	2862.0	2946.2
-52.5°	1914.0	2013.9	2094.7	2159.3	2219.1	2284.7	2348.5	2423.0	2504.2	2588.9	2655.9
-55°	1700.7	1827.7	1945.1	2005.7	2052.6	2106.7	2160.8	2221.1	2289.6	2360.8	2413.9
-57.5°	1465.1	1590.3	1700.9	1779.6	1857.4	1936.8	1996.3	2043.5	2105.5	2166.2	2212.0
-60°	1228.4	1333.4	1431.1	1510.7	1591.8	1671.3	1738.2	1799.7	1876.4	1946.1	2002.8
-62.5°	1008.0	1099.9	1175.3	1239.7	1308.8	1378.0	1441.7	1502.3	1572.0	1634.6	1687.7
-65°	807.7	884.8	940.6	991.3	1046.2	1103.4	1153.9	1204.2	1260.2	1310.3	1353.8
-67.5°	653.1	704.3	739.0	771.3	814.9	859.4	898.9	939.0	981.8	1019.7	1052.7
-70°	534.7	566.6	588.0	612.8	643.8	672.3	698.3	727.5	759.0	788.0	814.4
-72.5°	443.3	465.2	481.2	501.0	520.7	538.8	555.2	576.2	599.1	621.6	642.9
-75°	371.3	385.5	400.8	415.1	428.6	441.7	453.9	470.8	488.4	505.3	521.4
-77.5°	333.2	343.7	352.3	360.2	367.6	376.1	384.5	398.7	414.2	427.2	439.5
-80°	303.6	311.9	318.9	325.0	330.6	337.5	344.5	356.1	368.2	379.2	389.9
-82.5°	277.1	284.1	290.7	296.3	301.6	307.5	313.4	323.6	334.1	343.4	352.6
-85°	252.3	258.4	264.3	269.2	274.1	279.6	285.0	293.9	302.8	311.1	319.3
-87.5°	230.1	235.5	240.9	244.6	248.3	253.6	258.8	266.7	274.6	282.0	289.3
-90°	3.3	3.3	3.3	2.8	2.2	2.2	2.2	2.2	2.2	1.7	1.1



REPORT NUMBER: P735980 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	269.9	273.2	273.8	274.3	273.8	273.2	269.9	266.6	260.6	254.6	247.5
87.5°	1.6	1.1	1.6	2.2	1.6	1.1	1.6	2.2	2.2	2.2	2.7
85°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.3
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.8
80°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.9
77.5°	2.8	2.2	2.7	3.3	2.7	2.2	2.8	3.3	3.3	3.4	3.9
75°	4.9	4.4	3.9	3.3	3.9	4.4	4.9	5.4	5.7	6.0	6.3
72.5°	14.8	15.1	15.8	16.5	15.8	15.1	14.8	14.2	13.3	12.4	12.0
70°	17.6	16.6	16.5	16.5	16.5	16.6	17.6	18.3	17.9	17.6	17.4
67.5°	31.4	33.2	33.8	34.0	33.8	33.2	31.4	29.3	26.5	24.5	23.5
65°	30.6	31.7	31.8	31.8	31.8	31.7	30.6	29.4	28.1	26.9	26.0
62.5°	20.5	21.0	21.4	21.9	21.4	21.0	20.5	20.1	20.0	20.4	20.9
60°	11.5	12.2	12.7	13.2	12.7	12.2	11.5	11.0	10.7	10.9	11.5
57.5°	5.4	5.7	6.0	6.6	6.0	5.7	5.4	5.4	5.6	5.8	5.8
55°	11.1	11.7	12.0	12.1	12.0	11.7	11.1	10.6	10.0	10.1	10.6
52.5°	52.0	49.5	47.6	46.1	47.6	49.5	52.0	52.9	51.1	47.0	41.7
50°	201.0	196.2	190.6	185.4	190.6	196.2	201.0	196.8	186.6	170.1	151.0
47.5°	448.5	444.6	436.4	425.7	436.4	444.6	448.5	439.7	424.7	402.4	385.7
45°	758.1	780.1	790.0	784.5	790.0	780.1	758.1	725.9	702.4	682.5	664.3
42.5°	1231.0	1250.4	1252.1	1223.4	1252.1	1250.4	1231.0	1201.1	1113.1	1002.5	925.0
40°	2436.0	2604.8	2662.7	2488.5	2662.7	2604.8	2436.0	2233.5	1953.5	1637.6	1426.1
37.5°	4317.4	4980.7	5533.9	5555.2	5533.9	4980.7	4317.4	3761.5	3300.3	2843.6	2436.3
35°	6997.1	7679.5	8009.4	7995.4	8009.4	7679.5	6997.1	5993.1	5058.8	4421.1	3828.5
32.5°	9834.6	10351.5	10681.9	10602.4	10681.9	10351.5	9834.6	8809.3	7382.4	6210.7	5470.6
30°	12984.7	13464.3	13849.4	13843.5	13849.4	13464.3	12984.7	12117.7	10903.7	9433.7	7773.0
27.5°	17942.4	18930.7	19716.3	19583.1	19716.3	18930.7	17942.4	16441.3	14597.2	13010.0	11223.2
25°	25606.9	27414.7	28692.9	28429.9	28692.9	27414.7	25606.9	23346.9	20667.7	18279.3	15563.7
22.5°	36929.4	39248.6	40218.2	39449.2	40218.2	39248.6	36929.4	34161.8	30434.0	26243.8	22471.4
20°	54656.3	58956.0	61629.2	60035.1	61629.2	58956.0	54656.3	49353.0	43786.3	37184.6	31371.6
17.5°	82042.4	91370.3	98740.6	98537.4	98740.6	91370.3	82042.4	70243.6	61127.5	51269.5	42280.5
15°	115045.4	125662.5	133837.5	134782.8	133837.5	125662.5	115045.4	99706.3	82088.2	67596.5	54450.8
12.5°	144596.1	155393.7	163393.8	165695.7	163393.8	155393.7	144596.1	126915.7	106446.8	84589.3	66567.0
10°	165656.8	176432.1	184175.4	186905.9	184175.4	176432.1	165656.8	150124.1	127661.3	102340.3	78063.3
7.5°	181106.8	192796.9	198601.3	201568.0	198601.3	192796.9	181106.8	165161.1	144561.7	118590.7	91879.6
5°	192223.9	203088.5	208703.8	212298.7	208703.8	203088.5	192223.9	176438.3	157085.3	131648.4	102581.0
2.5°	199232.0	209489.1	216232.4	219457.0	216232.4	209489.1	199232.0	184604.5	164759.4	139690.2	109198.5
0°	201494.0	211340.9	218899.0	221789.6	218899.0	211340.9	201494.0	187601.6	167374.4	142961.4	112118.8
-2.5°	200441.8	210087.8	216115.9	217284.4	216115.9	210087.8	200441.8	187329.3	168266.4	143524.9	113640.6
-5°	194966.7	203857.0	209423.3	210338.0	209423.3	203857.0	194966.7	182059.6	163527.3	138148.2	109286.7
-7.5°	185527.6	194396.0	198997.0	200351.7	198997.0	194396.0	185527.6	172163.4	154222.7	128794.6	101107.0
-10°	171841.8	180409.7	185327.1	186493.4	185327.1	180409.7	171841.8	158570.0	138635.5	114861.7	88961.0
-12.5°	153167.2	162307.5	167811.1	169023.6	167811.1	162307.5	153167.2	138641.7	119956.2	97028.0	78516.5
-15°	128951.8	138353.9	145379.5	147079.3	145379.5	138353.9	128951.8	115431.9	97218.5	81391.7	67203.2
-17.5°	101038.8	110447.3	116760.5	117965.8	116760.5	110447.3	101038.8	89033.7	78333.3	66686.2	56444.7
-20°	76998.2	83049.1	86612.3	87232.9	86612.3	83049.1	76998.2	70088.2	62733.3	54420.6	46482.1



REPORT NUMBER: P735980 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	59668.9	63735.8	65905.2	66211.3	65905.2	63735.8	59668.9	55195.1	49720.6	43702.6	37572.1
-25°	46237.7	49192.6	50808.5	51077.5	50808.5	49192.6	46237.7	42634.7	38616.7	34743.1	30331.6
-27.5°	35502.6	37338.2	38841.7	38528.7	38841.7	37338.2	35502.6	33062.7	30353.8	28014.5	25232.4
-30°	28092.7	29270.1	30158.0	29925.4	30158.0	29270.1	28092.7	26547.1	24665.9	22739.8	20549.0
-32.5°	22737.3	23659.7	24283.9	24450.3	24283.9	23659.7	22737.3	21407.5	19721.9	17931.9	16125.8
-35°	17672.5	18426.2	18858.8	19026.8	18858.8	18426.2	17672.5	16587.8	15205.5	13417.8	11901.0
-37.5°	12902.8	13563.9	13976.6	14120.0	13976.6	13563.9	12902.8	11996.9	10776.5	9276.9	8105.0
-40°	8587.1	9096.5	9434.6	9565.5	9434.6	9096.5	8587.1	7915.1	7037.3	6011.5	5216.6
-42.5°	5309.3	5547.8	5698.8	5746.1	5698.8	5547.8	5309.3	4996.5	4594.9	4072.1	3642.8
-45°	3776.6	3842.5	3880.2	3887.4	3880.2	3842.5	3776.6	3684.1	3564.3	3419.3	3259.7
-47.5°	3365.6	3417.5	3444.1	3445.3	3444.1	3417.5	3365.6	3286.0	3184.2	3062.4	2938.1
-50°	3015.8	3063.8	3088.1	3089.8	3088.1	3063.8	3015.8	2946.2	2862.0	2761.3	2661.3
-52.5°	2710.7	2749.1	2766.8	2767.2	2766.8	2749.1	2710.7	2655.9	2588.9	2504.2	2423.0
-55°	2457.5	2487.2	2498.3	2496.2	2498.3	2487.2	2457.5	2413.9	2360.8	2289.6	2221.1
-57.5°	2250.2	2279.4	2288.6	2285.5	2288.6	2279.4	2250.2	2212.0	2166.2	2105.5	2043.5
-60°	2047.0	2078.3	2090.1	2089.1	2090.1	2078.3	2047.0	2002.8	1946.1	1876.4	1799.7
-62.5°	1725.7	1749.7	1762.5	1766.5	1762.5	1749.7	1725.7	1687.7	1634.6	1572.0	1502.3
-65°	1383.8	1403.0	1413.2	1416.5	1413.2	1403.0	1383.8	1353.8	1310.3	1260.2	1204.2
-67.5°	1074.1	1087.8	1094.5	1096.1	1094.5	1087.8	1074.1	1052.7	1019.7	981.8	939.0
-70°	830.7	841.9	847.2	849.2	847.2	841.9	830.7	814.4	788.0	759.0	727.5
-72.5°	655.1	664.2	667.8	669.3	667.8	664.2	655.1	642.9	621.6	599.1	576.2
-75°	529.0	534.4	536.5	537.6	536.5	534.4	529.0	521.4	505.3	488.4	470.8
-77.5°	446.2	451.9	453.9	455.3	453.9	451.9	446.2	439.5	427.2	414.2	398.7
-80°	394.7	398.8	400.3	401.6	400.3	398.8	394.7	389.9	379.2	368.2	356.1
-82.5°	358.3	363.8	364.2	364.3	364.2	363.8	358.3	352.6	343.4	334.1	323.6
-85°	323.7	327.8	328.6	329.2	328.6	327.8	323.7	319.3	311.1	302.8	293.9
-87.5°	293.3	297.2	297.3	297.3	297.3	297.2	293.3	289.3	282.0	274.6	266.7
-90°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7	2.2	2.2



REPORT NUMBER: P735980 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	240.3	235.4	230.4	227.1	223.8	218.9	214.0	206.9	199.7	192.6	185.4
87.5°	3.2	3.2	3.2	3.2	3.3	3.8	4.2	4.3	4.4	4.4	4.4
85°	3.3	3.8	4.2	4.2	4.1	4.2	4.4	4.7	5.0	4.9	4.9
82.5°	4.2	4.3	4.4	4.4	4.4	4.7	4.9	5.2	5.5	5.6	5.7
80°	4.4	4.4	4.4	4.7	5.0	5.2	5.5	5.6	5.7	6.1	6.4
77.5°	4.4	4.4	4.5	5.1	5.5	5.6	5.7	6.2	6.4	6.5	6.6
75°	6.5	6.2	6.0	6.1	6.3	6.4	6.5	6.5	6.7	6.9	6.8
72.5°	11.7	11.4	10.9	10.3	9.7	9.9	9.9	9.3	8.8	8.2	7.6
70°	17.6	18.3	18.8	18.9	18.9	18.8	17.5	15.5	13.7	13.0	11.2
67.5°	23.4	24.0	25.7	28.2	27.9	27.4	26.3	24.7	22.1	19.7	16.2
65°	26.6	27.9	28.0	27.8	29.7	31.6	33.6	32.8	32.7	29.2	23.0
62.5°	22.8	25.2	24.3	23.9	26.5	31.8	40.0	43.7	45.7	42.5	34.7
60°	13.5	15.1	16.0	17.9	21.1	29.9	43.0	52.4	60.5	55.0	46.0
57.5°	6.6	7.8	10.2	13.3	16.8	28.5	43.4	56.3	65.4	62.0	56.2
55°	10.9	12.5	13.7	14.9	16.3	28.8	42.0	55.3	65.2	64.1	59.2
52.5°	33.8	39.3	39.1	32.0	33.0	40.4	43.5	57.4	66.4	67.6	63.6
50°	140.0	145.4	126.5	104.5	104.5	82.7	86.1	82.6	79.9	82.0	74.2
47.5°	372.5	354.0	312.2	279.0	249.7	217.0	201.2	163.0	155.1	119.6	113.5
45°	636.8	608.3	559.3	503.9	456.4	414.0	374.7	343.8	285.0	253.8	179.0
42.5°	885.2	840.1	782.9	722.9	666.1	603.2	556.4	520.3	480.3	420.2	354.5
40°	1256.2	1057.0	984.6	913.9	838.2	765.2	712.0	657.3	629.0	581.8	518.2
37.5°	1966.2	1531.1	1315.3	1102.2	1009.4	927.9	866.4	810.3	756.2	714.7	654.8
35°	3130.3	2506.3	1931.1	1536.6	1224.5	1115.4	1034.7	970.6	903.8	836.8	780.3
32.5°	4593.0	3818.9	3001.8	2294.4	1727.2	1374.5	1233.4	1142.3	1056.7	974.2	893.3
30°	6351.6	5381.2	4346.9	3392.3	2609.1	1932.1	1489.6	1336.2	1220.6	1116.7	1010.4
27.5°	9383.5	7348.6	6095.4	4900.0	3907.5	2962.2	2107.5	1552.1	1398.5	1271.3	1145.2
25°	13537.6	11236.6	8971.7	7347.4	6016.8	4401.3	3030.2	2095.7	1612.9	1434.0	1283.9
22.5°	18738.2	15642.3	12805.7	10311.2	8368.4	6287.6	4335.2	2697.8	1843.9	1606.2	1429.6
20°	25313.0	20252.4	16705.7	13511.0	10714.3	8079.1	5609.0	3611.2	2351.8	1790.2	1571.2
17.5°	33996.2	26526.8	21070.3	16962.9	13407.8	10291.4	7305.2	4755.2	2827.3	1977.4	1710.4
15°	43173.2	33644.0	26228.2	20418.4	15868.4	12247.2	9030.1	5901.3	3491.0	2308.8	1865.8
12.5°	52991.4	41446.0	31528.6	23930.0	18196.0	13961.6	10443.8	7151.6	4386.6	2698.2	1997.9
10°	61255.8	48140.2	36944.4	28006.6	21220.4	15869.6	11651.6	8141.4	5102.4	3038.2	2114.1
7.5°	69931.3	53780.9	41072.6	30910.3	23552.5	17885.7	12895.7	8876.5	5651.2	3291.5	2203.5
5°	75847.9	57523.4	43874.7	32885.1	25024.0	19260.5	14069.2	9386.8	5999.0	3464.4	2278.4
2.5°	79556.8	59557.4	45389.4	34355.7	25798.9	19951.9	14988.4	10032.5	6293.1	3618.6	2353.5
0°	81683.2	61424.2	46645.8	35275.4	26228.9	20327.0	15465.2	10781.2	6491.1	3721.7	2413.9
-2.5°	83451.2	61761.9	46358.7	34565.6	25962.6	20145.9	15359.7	11066.4	6919.1	3826.2	2478.4
-5°	81531.4	60912.9	45330.5	33693.4	25597.2	19860.8	15137.7	10983.3	7036.9	3871.1	2524.1
-7.5°	76988.6	58382.3	43626.5	32417.6	24868.3	19383.4	14724.1	10512.7	6746.7	3891.5	2585.3
-10°	70126.2	54307.7	40754.7	30688.2	23822.3	18645.8	14115.6	9971.2	6355.2	3807.9	2624.7
-12.5°	62867.1	49230.0	37286.1	28271.1	22371.1	17602.5	13250.8	9226.9	5817.1	3617.5	2654.5
-15°	55062.9	43565.1	33778.8	26240.8	20674.0	16242.9	12150.3	8276.6	5121.8	3342.5	2659.6
-17.5°	46971.8	37876.6	29665.8	23569.6	18770.4	14644.0	10799.6	7320.5	4616.6	3137.1	2645.0
-20°	38824.0	32212.3	26281.7	21058.0	16594.0	12705.4	9189.0	6161.0	4100.1	3087.0	2638.7



REPORT NUMBER: P735980 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	31878.1	27437.3	22910.4	18370.1	14466.9	10761.4	7553.6	5006.8	3477.1	2978.3	2599.6
-25°	26795.9	23190.3	19492.5	15848.4	12187.4	8742.1	5910.2	4183.2	3267.8	2877.7	2528.0
-27.5°	22278.9	19161.6	16076.1	12900.7	9705.8	6812.8	4694.4	3448.3	3058.5	2743.4	2455.4
-30°	18054.1	15367.8	12649.2	9870.8	7356.7	5121.8	3691.9	3213.5	2883.3	2599.7	2341.5
-32.5°	13982.8	11737.4	9352.4	7160.4	5249.9	3921.8	3337.9	2987.9	2714.8	2464.6	2234.3
-35°	10122.5	8362.4	6464.4	5036.9	3843.4	3409.2	3087.7	2811.3	2557.6	2329.1	2125.1
-37.5°	6771.9	5504.6	4554.4	3686.3	3404.8	3130.2	2882.6	2638.4	2402.4	2206.8	2027.1
-40°	4529.1	3774.9	3562.8	3331.9	3117.9	2903.3	2684.1	2463.6	2270.9	2091.9	1934.0
-42.5°	3497.3	3345.5	3206.2	3045.0	2871.1	2685.2	2492.2	2311.5	2142.6	1990.6	1849.4
-45°	3137.9	3021.0	2909.5	2786.6	2639.6	2484.0	2319.8	2169.6	2025.7	1894.1	1765.2
-47.5°	2833.0	2739.9	2644.8	2550.4	2430.6	2303.2	2173.4	2040.9	1919.8	1791.8	1608.7
-50°	2567.9	2493.8	2413.3	2334.8	2249.9	2153.2	2041.0	1927.9	1789.8	1616.4	1444.7
-52.5°	2348.5	2284.7	2219.1	2159.3	2094.7	2013.9	1914.0	1759.4	1600.2	1434.8	1273.6
-55°	2160.8	2106.7	2052.6	2005.7	1945.1	1827.7	1700.7	1551.8	1396.7	1244.1	1105.6
-57.5°	1996.3	1936.8	1857.4	1779.6	1700.9	1590.3	1465.1	1325.3	1192.5	1064.7	939.2
-60°	1738.2	1671.3	1591.8	1510.7	1431.1	1333.4	1228.4	1115.1	997.0	892.0	787.7
-62.5°	1441.7	1378.0	1308.8	1239.7	1175.3	1099.9	1008.0	917.4	821.8	728.7	653.5
-65°	1153.9	1103.4	1046.2	991.3	940.6	884.8	807.7	738.8	670.9	601.5	536.0
-67.5°	898.9	859.4	814.9	771.3	739.0	704.3	653.1	597.0	547.5	502.6	460.8
-70°	698.3	672.3	643.8	612.8	588.0	566.6	534.7	497.2	458.4	423.4	391.3
-72.5°	555.2	538.8	520.7	501.0	481.2	465.2	443.3	415.8	387.0	356.2	330.9
-75°	453.9	441.7	428.6	415.1	400.8	385.5	371.3	354.9	337.3	318.4	301.0
-77.5°	384.5	376.1	367.6	360.2	352.3	343.7	333.2	318.7	304.8	290.2	276.6
-80°	344.5	337.5	330.6	325.0	318.9	311.9	303.6	291.5	279.2	266.6	254.8
-82.5°	313.4	307.5	301.6	296.3	290.7	284.1	277.1	266.7	256.3	245.2	234.4
-85°	285.0	279.6	274.1	269.2	264.3	258.4	252.3	243.3	234.2	224.4	214.5
-87.5°	258.8	253.6	248.3	244.6	240.9	235.5	230.1	222.4	214.7	206.2	197.8
-90°	2.2	2.2	2.2	2.8	3.3	3.3	3.3	3.9	4.4	4.4	4.4



REPORT NUMBER: P735980 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	178.9	172.3	165.7	159.1	153.6	148.1	142.1	136.1	127.9	119.6	107.0
87.5°	4.8	5.1	5.6	6.1	6.1	6.1	6.6	7.1	7.0	7.0	7.5
85°	5.4	5.8	6.2	6.6	6.6	6.6	7.1	7.5	7.4	7.4	7.8
82.5°	6.1	6.5	6.5	6.6	7.0	7.2	7.6	8.0	7.9	7.8	8.2
80°	6.5	6.7	6.9	7.0	7.3	7.8	8.2	8.5	8.6	8.6	8.7
77.5°	6.6	6.7	7.3	7.6	7.6	7.8	8.4	8.9	9.3	9.3	9.4
75°	6.6	6.8	7.4	7.8	7.8	7.9	8.4	9.1	9.7	10.1	10.1
72.5°	7.4	7.4	7.7	8.0	8.3	8.6	8.9	9.2	10.0	10.6	10.8
70°	9.3	8.4	8.4	8.8	9.1	9.4	9.8	10.1	10.5	11.1	11.3
67.5°	12.2	10.9	10.0	10.0	10.3	10.6	10.9	11.1	11.4	11.7	12.0
65°	19.0	15.4	12.1	12.0	11.8	11.8	12.0	12.5	12.3	13.0	12.6
62.5°	27.5	22.0	18.5	15.3	14.4	15.1	13.4	14.9	13.7	14.5	14.1
60°	37.2	29.6	25.7	22.7	20.3	19.8	19.0	17.7	17.3	16.2	16.0
57.5°	45.5	36.4	34.2	30.8	29.3	27.3	26.1	23.9	21.5	20.1	18.0
55°	51.9	44.3	43.4	40.5	39.9	36.8	35.1	32.1	27.2	25.0	20.4
52.5°	55.6	54.6	53.6	53.5	52.8	48.4	46.5	41.0	36.7	30.2	25.3
50°	64.9	68.5	67.1	70.4	67.9	65.5	58.8	53.1	46.9	37.0	30.6
47.5°	95.8	98.5	91.0	93.3	88.8	85.4	76.8	66.8	57.8	47.1	36.2
45°	176.7	148.2	139.4	128.8	118.3	113.7	98.6	81.5	71.3	57.7	41.9
42.5°	289.2	249.5	222.4	171.5	167.5	148.4	124.8	105.1	85.4	68.8	50.1
40°	442.3	389.4	331.0	276.9	229.1	188.1	163.7	132.4	100.2	81.0	60.1
37.5°	589.3	529.1	469.6	396.5	310.3	254.3	207.9	162.0	119.4	95.1	70.2
35°	710.8	652.0	596.0	517.5	427.8	324.1	256.4	197.8	146.8	109.8	80.6
32.5°	820.1	752.4	686.0	622.3	525.3	395.3	315.3	238.7	174.9	125.0	90.9
30°	924.7	842.3	765.0	703.3	602.6	475.5	373.6	277.7	203.5	140.7	101.5
27.5°	1033.3	932.7	841.2	769.3	665.2	544.4	419.5	314.7	232.5	157.9	113.0
25°	1149.7	1031.4	930.0	838.7	728.4	595.6	460.5	349.9	262.7	177.8	124.1
22.5°	1272.8	1130.3	1015.7	913.1	798.1	645.4	500.4	385.8	286.1	196.4	134.5
20°	1389.3	1222.4	1093.9	974.9	864.8	701.9	541.4	414.9	308.0	213.7	144.4
17.5°	1505.3	1311.2	1154.5	1029.1	921.6	760.2	583.5	442.0	328.3	229.6	153.7
15°	1614.5	1397.7	1215.4	1077.2	967.2	815.2	624.6	467.6	346.9	244.1	163.0
12.5°	1715.8	1479.2	1275.5	1118.4	1001.1	864.5	663.9	491.3	363.8	258.6	172.4
10°	1806.5	1555.8	1334.2	1157.8	1030.5	908.2	700.9	517.4	385.6	273.0	181.3
7.5°	1881.3	1625.9	1388.3	1195.2	1057.1	945.7	740.9	550.9	407.0	286.0	189.5
5°	1945.3	1689.1	1442.0	1239.1	1087.9	976.1	777.3	582.4	427.0	297.5	196.9
2.5°	2003.2	1744.6	1492.5	1280.7	1116.5	1000.4	809.0	611.5	445.0	307.6	203.7
0°	2050.7	1790.7	1536.1	1317.8	1142.2	1019.3	836.1	637.5	460.8	316.0	209.6
-2.5°	2093.6	1823.4	1572.1	1356.7	1185.0	1047.6	852.7	650.5	473.8	327.1	216.8
-5°	2124.9	1847.3	1601.2	1390.8	1223.4	1070.4	864.5	660.0	484.1	336.3	223.0
-7.5°	2174.4	1875.0	1627.2	1420.6	1256.3	1087.0	871.4	666.0	491.7	343.5	228.4
-10°	2213.0	1900.5	1651.4	1445.2	1277.9	1100.9	875.1	668.6	496.5	348.5	232.7
-12.5°	2243.1	1918.9	1667.5	1463.5	1295.0	1112.8	884.5	671.5	498.3	351.1	235.9
-15°	2265.8	1945.7	1684.2	1476.0	1309.4	1118.9	886.9	671.4	496.1	350.7	238.0
-17.5°	2273.0	1956.0	1692.6	1485.8	1319.4	1119.3	882.0	665.8	490.6	347.3	239.4
-20°	2276.6	1960.2	1689.5	1486.7	1322.4	1106.2	869.1	654.3	481.7	341.8	240.1



REPORT NUMBER: P735980 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2266.1	1962.1	1700.5	1485.1	1311.7	1085.5	848.3	637.2	469.4	334.2	239.7
-25°	2221.8	1953.0	1702.6	1490.4	1283.9	1056.1	825.9	619.4	453.6	324.5	238.3
-27.5°	2168.4	1918.7	1692.2	1483.8	1255.4	1021.8	801.7	604.2	440.1	312.7	235.9
-30°	2109.5	1879.3	1667.6	1459.8	1217.1	984.6	772.5	584.3	427.5	305.7	232.4
-32.5°	2026.0	1833.4	1635.1	1409.5	1169.8	940.8	737.5	559.3	411.7	301.7	229.4
-35°	1944.9	1777.6	1595.4	1348.2	1114.2	896.4	699.4	529.2	392.5	295.9	225.9
-37.5°	1859.0	1708.2	1517.5	1277.2	1049.0	845.1	660.9	500.5	370.1	288.5	221.3
-40°	1781.5	1615.9	1409.8	1196.7	981.1	786.1	617.1	472.4	355.7	279.3	215.5
-42.5°	1699.5	1492.1	1295.6	1102.1	906.6	728.7	569.9	441.0	343.8	270.4	208.5
-45°	1564.9	1364.8	1174.5	1000.0	826.1	665.3	530.5	409.1	329.6	260.9	202.5
-47.5°	1423.0	1233.3	1053.9	892.9	748.1	601.0	484.9	390.4	313.4	250.0	198.9
-50°	1275.0	1101.2	935.6	792.1	658.9	546.5	441.4	369.2	298.8	237.4	194.7
-52.5°	1122.3	969.9	823.5	690.9	585.6	488.1	411.4	344.7	282.5	229.1	189.9
-55°	970.0	843.3	712.9	603.7	514.3	444.8	379.0	321.3	264.4	222.3	184.8
-57.5°	827.8	716.7	617.1	525.2	457.2	402.7	348.3	296.2	252.9	214.5	181.8
-60°	690.7	610.3	526.3	463.0	408.8	362.4	317.8	273.9	242.6	206.7	178.1
-62.5°	578.4	511.9	462.3	409.4	363.6	325.0	288.7	259.7	230.9	201.2	173.7
-65°	490.0	446.8	403.0	361.7	322.0	291.7	271.5	244.9	221.4	195.1	168.7
-67.5°	420.3	385.6	351.4	315.3	290.8	271.9	253.3	233.2	212.4	188.4	163.2
-70°	359.1	328.2	307.5	288.6	269.3	252.6	239.6	222.6	203.0	181.4	157.2
-72.5°	313.5	297.2	281.4	264.9	251.3	238.8	226.6	211.6	193.6	173.9	150.9
-75°	285.4	272.6	260.6	248.2	236.3	224.8	213.6	200.3	183.7	166.0	144.5
-77.5°	265.4	254.4	242.7	231.5	221.2	210.8	200.4	188.7	173.6	157.8	137.7
-80°	245.5	235.7	225.6	215.8	206.2	196.5	187.2	177.0	163.3	149.1	130.6
-82.5°	225.6	216.8	208.5	199.9	191.6	183.2	174.5	165.2	152.8	140.2	124.0
-85°	207.0	199.5	191.8	183.9	176.9	169.9	162.1	154.3	143.9	133.4	118.5
-87.5°	191.4	184.9	178.0	171.0	165.0	159.0	152.2	145.3	136.0	126.6	112.8
-90°	4.4	4.4	5.0	5.5	5.5	5.5	6.1	6.6	6.6	6.6	7.2



REPORT NUMBER: P735980 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	94.4	78.4	62.5	44.9	27.4	18.6	9.9
87.5°	8.0	8.1	8.1	8.0	7.9	9.0	9.9
85°	8.3	8.4	8.5	8.3	8.1	9.2	9.9
82.5°	8.6	8.8	8.8	8.6	8.3	9.4	9.9
80°	8.9	9.2	9.2	8.8	8.5	9.6	9.9
77.5°	9.5	9.6	9.6	9.1	8.7	9.8	9.9
75°	10.1	10.1	10.0	9.4	9.0	10.0	9.9
72.5°	10.7	10.6	10.4	9.7	9.2	10.2	9.9
70°	11.3	11.0	10.8	10.0	9.5	10.4	9.9
67.5°	12.0	11.5	11.2	10.4	9.8	10.6	9.9
65°	12.9	12.3	11.7	10.9	10.1	10.8	9.9
62.5°	13.8	13.3	12.2	11.3	10.4	11.1	9.9
60°	14.8	14.3	12.7	11.8	10.8	11.3	9.9
57.5°	16.9	15.4	13.8	12.2	11.4	11.5	9.9
55°	19.2	16.6	15.0	12.7	12.0	11.7	9.9
52.5°	21.6	17.9	16.3	13.2	12.7	12.0	9.9
50°	24.1	20.4	17.6	13.7	13.4	12.2	9.9
47.5°	27.0	23.0	19.0	14.3	14.2	12.5	9.9
45°	32.0	25.7	20.5	15.4	15.0	12.7	9.9
42.5°	37.1	28.5	22.0	16.5	15.8	12.9	9.9
40°	42.5	31.5	23.9	18.1	16.7	13.2	9.9
37.5°	48.2	34.5	26.2	20.1	17.5	13.4	9.9
35°	53.8	38.5	28.5	22.0	18.5	13.6	9.9
32.5°	60.3	43.0	30.9	24.0	19.4	13.9	9.9
30°	68.6	47.5	33.2	25.9	20.4	14.1	9.9
27.5°	76.8	51.8	36.4	27.9	21.4	14.3	9.9
25°	84.7	56.0	39.6	29.9	22.4	14.6	9.9
22.5°	92.3	60.4	42.8	31.9	23.4	14.8	9.9
20°	99.6	65.4	45.9	33.9	24.4	15.0	9.9
17.5°	107.2	70.3	48.9	35.9	25.4	15.2	9.9
15°	114.7	75.0	51.8	37.8	26.4	15.4	9.9
12.5°	121.7	79.5	54.6	39.7	27.4	15.6	9.9
10°	128.2	83.8	57.3	41.6	28.3	15.8	9.9
7.5°	134.3	87.9	59.9	43.4	29.3	16.0	9.9
5°	139.8	91.8	62.4	45.1	30.2	16.2	9.9
2.5°	144.8	95.4	64.7	46.7	31.0	16.3	9.9
0°	149.2	98.7	66.9	48.3	31.8	16.5	9.9
-2.5°	154.3	102.7	70.0	50.3	33.0	17.1	9.9
-5°	158.9	106.4	73.0	52.3	34.2	17.7	9.9
-7.5°	162.7	109.7	75.8	54.1	35.3	18.2	9.9
-10°	166.0	112.7	78.4	55.8	36.3	18.8	9.9
-12.5°	168.5	115.3	80.8	57.4	37.2	19.3	9.9
-15°	170.3	117.6	82.9	58.9	38.1	19.8	9.9
-17.5°	171.4	119.5	84.9	60.2	38.9	20.2	9.9
-20°	172.3	121.1	86.6	61.4	39.7	20.7	9.9



REPORT NUMBER: P735980 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	173.1	122.2	88.1	62.4	40.3	21.1	9.9
-25°	173.2	123.7	89.3	63.3	40.9	21.5	9.9
-27.5°	172.5	125.0	90.3	64.0	41.4	21.8	9.9
-30°	170.9	125.8	91.0	64.6	41.8	22.1	9.9
-32.5°	168.6	126.2	92.2	65.0	42.2	22.4	9.9
-35°	167.7	126.2	93.2	65.2	42.4	22.7	9.9
-37.5°	167.2	126.2	93.9	65.3	42.6	22.9	9.9
-40°	166.2	126.8	94.3	65.2	42.6	23.0	9.9
-42.5°	164.4	127.0	94.6	65.1	42.6	23.1	9.9
-45°	161.9	126.9	94.8	65.3	42.5	23.2	9.9
-47.5°	158.9	126.4	94.7	65.2	42.4	23.3	9.9
-50°	157.3	125.6	94.3	65.2	42.1	23.3	9.9
-52.5°	155.6	124.5	93.7	65.1	41.8	23.3	9.9
-55°	153.5	122.9	92.7	64.8	41.3	23.2	9.9
-57.5°	151.1	121.1	91.5	64.4	40.8	23.1	9.9
-60°	148.2	118.9	90.1	63.8	40.2	22.9	9.9
-62.5°	144.9	116.3	88.8	63.0	39.6	22.7	9.9
-65°	141.2	113.4	87.4	62.0	38.9	22.5	9.9
-67.5°	137.1	110.5	85.7	60.9	38.1	22.3	9.9
-70°	132.5	107.6	83.8	59.6	37.2	22.0	9.9
-72.5°	128.0	104.3	81.6	58.2	36.2	21.6	9.9
-75°	123.1	100.7	79.3	56.7	35.2	21.3	9.9
-77.5°	117.9	96.9	76.9	55.1	34.0	20.9	9.9
-80°	112.4	93.3	74.3	53.3	32.8	20.5	9.9
-82.5°	108.0	89.9	71.6	51.4	31.5	20.1	9.9
-85°	103.7	86.2	68.7	49.3	30.2	19.6	9.9
-87.5°	99.1	82.4	65.7	47.2	28.8	19.1	9.9
-90°	7.7	7.7	7.7	7.7	7.7	8.8	9.9

(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

