

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: P735967 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-70-4S-VHE**

Issue Date: 1/29/2024

Test Information

Test Method: LM-79-08
Report Number: P735967 (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-08-0680N-40-70-4S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 4S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

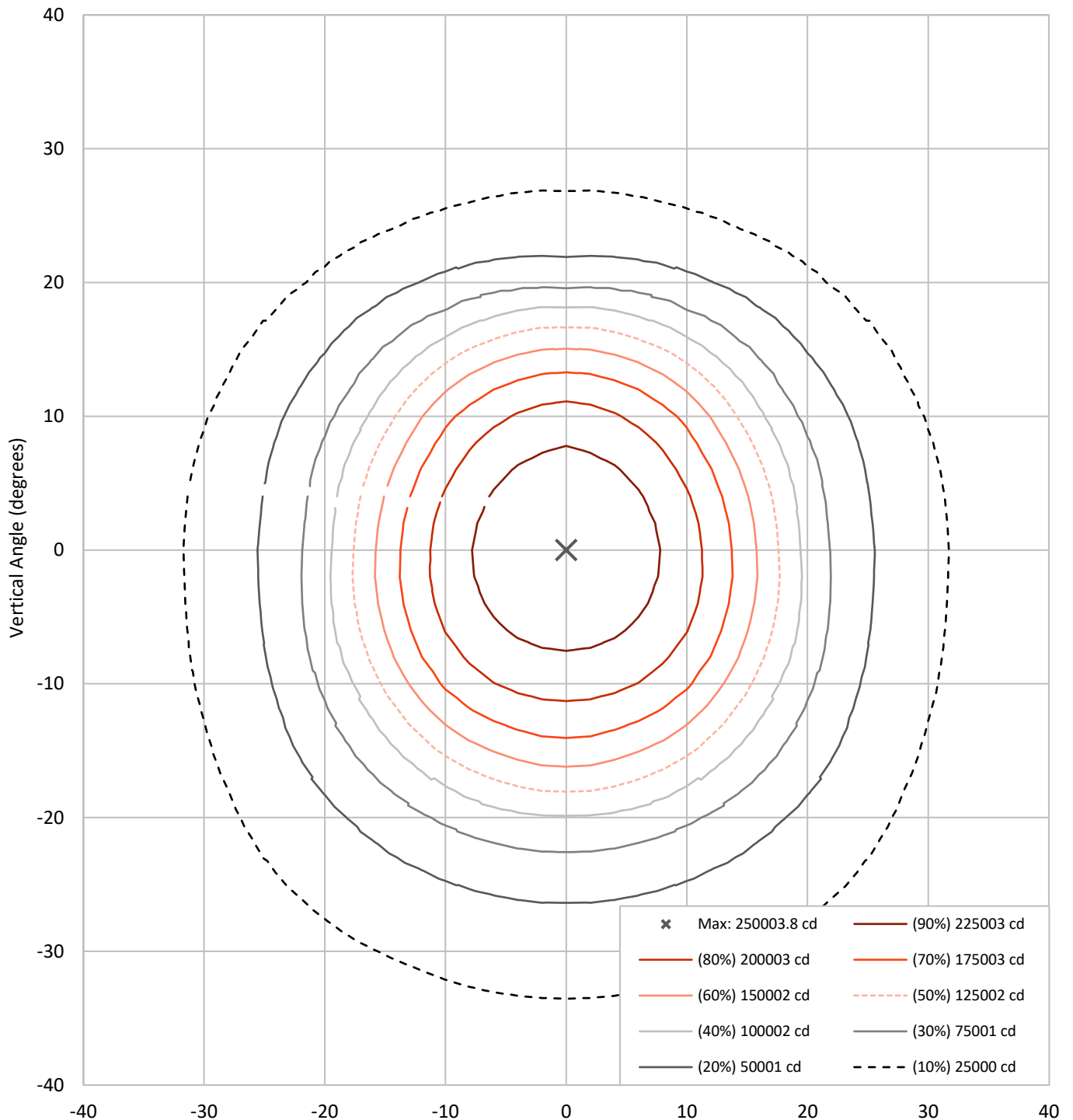
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	103706.6 lumens	Max Intensity:	250003.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	148.7 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:	55662.4 lumens	Field Lumens:	90579.4 lumens
Beam Efficiency:	53.7%	Field Efficiency:	87.3%

Input Watts (W): 697.2
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





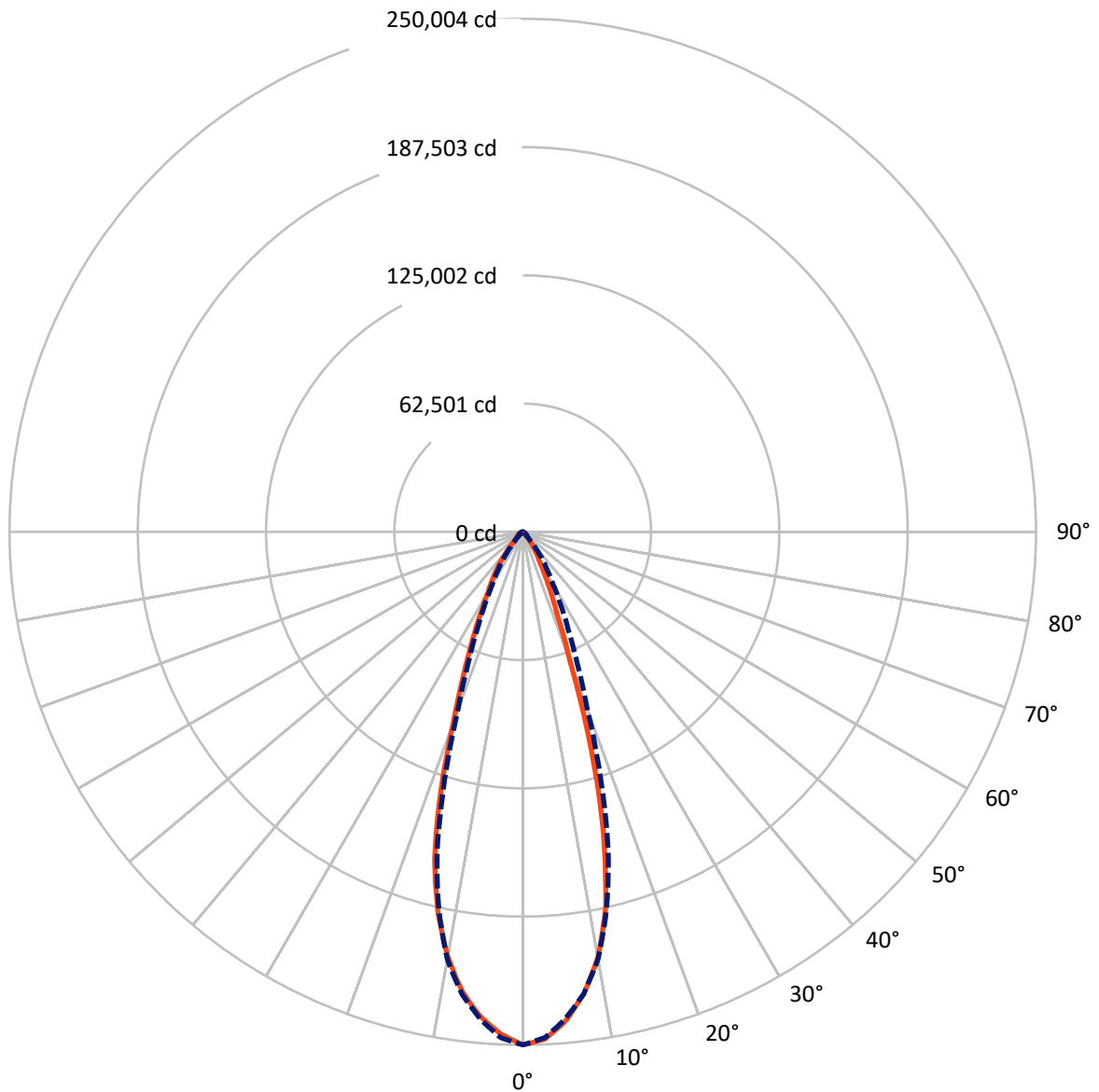
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Lumen Table

90	0.3	1.1	2.0	2.7	3.0	2.7	2.0	1.1	0.3										
80	0.3	1.1	2.0	2.7	3.0	2.7	2.0	1.1	0.3										
70	0.4	0.2	0.3	0.6	0.9	0.7	0.7	0.8	0.8	0.7	0.7	0.9	0.6	0.3	0.2	0.4			
60		0.5	0.8	1.4	1.4	1.0	1.3	1.5	1.5	1.3	1.0	1.4	1.4	0.8	0.5				
50	1.0	1.3	2.9	5.9	10.8	17.2	25.2	32.5	32.5	25.2	17.2	10.8	5.9	2.9	1.3	1.0			
40		3.1	9.9	18.8	31.0	71.6	160.1	259.3	259.3	160.1	71.6	31.0	18.8	9.9	3.1				
30	2.3	5.4	16.5	31.9	100.1	307.9	671.8	1018.7	1018.7	671.8	307.9	100.1	31.9	16.5	5.4	2.3			
20		7.4	21.6	51.0	260.5	863.9	2308.3	4101.7	4101.7	2308.3	863.9	260.5	51.0	21.6	7.4				
10	3.4	9.0	25.3	70.7	407.7	1418.0	4196.9	6720.6	6720.6	4196.9	1418.0	407.7	70.7	25.3	9.0	3.4			
0		10.1	28.1	79.1	437.0	1489.3	4399.9	6773.7	6773.7	4399.9	1489.3	437.0	79.1	28.1	10.1				
-10	3.8	10.4	29.7	72.8	348.8	1100.1	2769.6	4550.3	4550.3	2769.6	1100.1	348.8	72.8	29.7	10.4	3.8			
-20		9.7	29.6	62.4	191.9	611.0	1199.6	1732.3	1732.3	1199.6	611.0	191.9	62.4	29.6	9.7				
-30	3.6	8.3	26.7	52.3	92.2	226.7	456.8	631.4	631.4	456.8	226.7	92.2	52.3	26.7	8.3	3.6			
-40		6.5	20.0	41.8	65.9	91.5	124.8	159.8	159.8	124.8	91.5	65.9	41.8	20.0	6.5				
-50	3.1	4.8	12.5	27.2	46.9	63.2	76.4	85.7	85.7	76.4	63.2	46.9	27.2	12.5	4.8	3.1			
-60		3.6	7.3	13.8	23.5	33.4	42.4	48.4	48.4	42.4	33.4	23.5	13.8	7.3	3.6				
-70	2.2	13.1	29.6	47.9	58.8	47.9	29.6	13.1	2.2						2.2				
-80		13.1	29.6	47.9	58.8	47.9	29.6	13.1	2.2										
-90	2.2	13.1	29.6	47.9	58.8	47.9	29.6	13.1	2.2										

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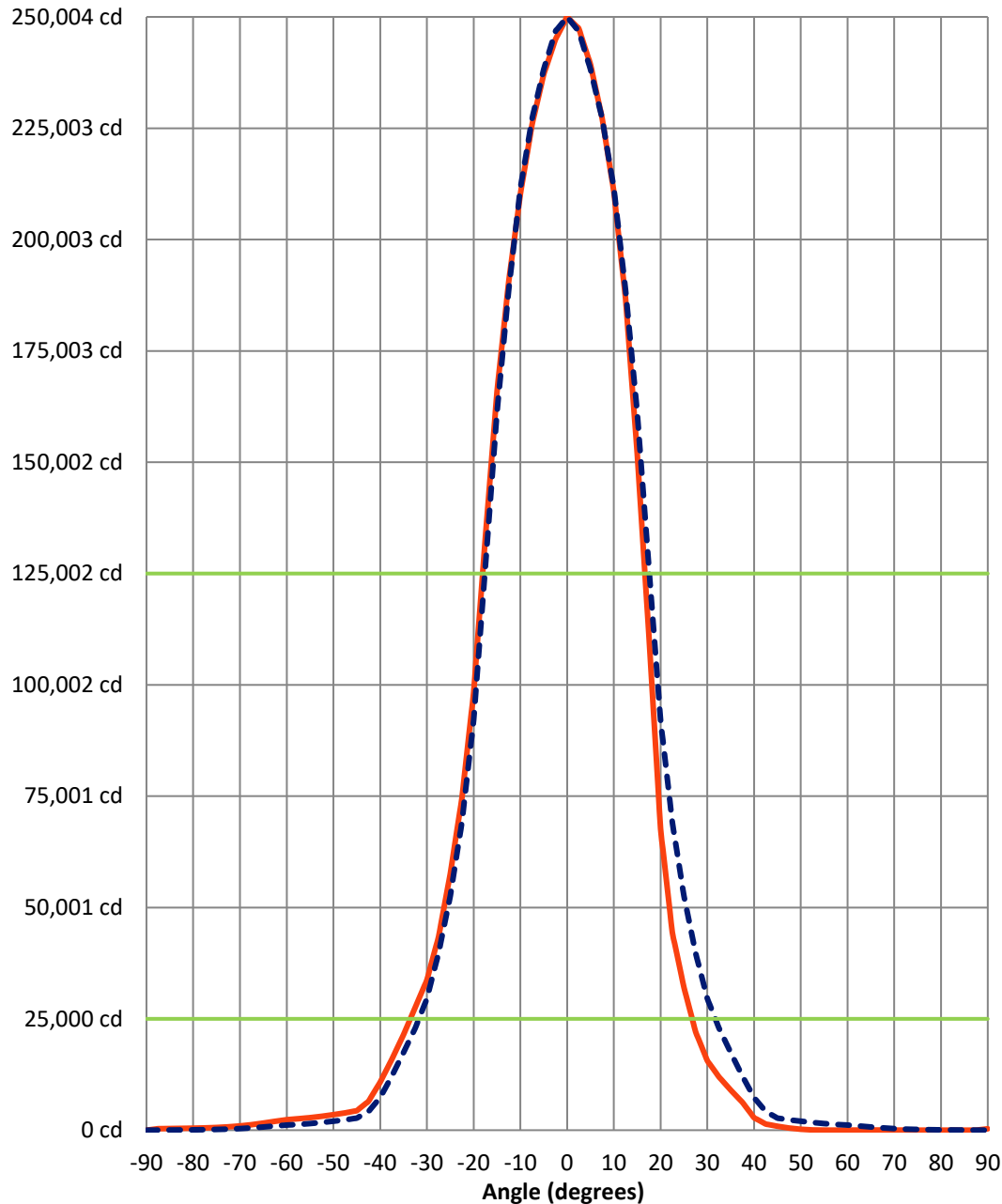
Luminous Intensity Polar Plot



— 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: 55662.4
 Efficiency: 53.7%

Field:
 H Angle: 63.4°
 V Angle: 60.3°
 Lumens: 90579.4
 Efficiency: 87.3%

Spill:
 Lumens: 13127.2
 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°	11.1	21.0	30.9	50.7	70.5	88.4	106.4	120.6	134.8	144.1	153.4
87.5°	11.1	10.1	8.9	9.0	9.1	9.1	9.0	8.4	7.8	7.9	7.9
85°	11.1	10.3	9.1	9.3	9.5	9.5	9.3	8.8	8.3	8.4	8.5
82.5°	11.1	10.6	9.4	9.6	9.9	9.9	9.7	9.2	8.8	9.0	9.0
80°	11.1	10.8	9.6	9.9	10.4	10.3	10.0	9.8	9.6	9.7	9.6
77.5°	11.1	11.0	9.8	10.3	10.8	10.8	10.7	10.6	10.5	10.4	10.0
75°	11.1	11.2	10.1	10.6	11.2	11.3	11.4	11.4	11.3	10.9	10.2
72.5°	11.1	11.5	10.4	10.9	11.6	11.9	12.0	12.1	11.9	11.3	10.4
70°	11.1	11.7	10.7	11.2	12.1	12.4	12.7	12.8	12.5	11.8	11.4
67.5°	11.1	12.0	11.0	11.7	12.6	13.0	13.5	13.4	13.1	12.8	12.5
65°	11.1	12.2	11.4	12.2	13.1	13.8	14.5	14.2	14.6	13.9	14.0
62.5°	11.1	12.5	11.7	12.7	13.7	14.9	15.5	15.8	16.3	15.4	16.7
60°	11.1	12.7	12.1	13.2	14.2	16.1	16.6	18.0	18.3	19.5	19.9
57.5°	11.1	13.0	12.8	13.7	15.5	17.3	19.0	20.4	22.7	24.3	26.9
55°	11.1	13.2	13.5	14.3	16.9	18.6	21.6	23.1	28.2	30.7	36.2
52.5°	11.1	13.5	14.3	14.8	18.3	20.2	24.3	28.6	34.0	41.4	46.2
50°	11.1	13.7	15.1	15.4	19.8	23.0	27.2	34.5	41.7	52.9	59.9
47.5°	11.1	14.0	15.9	16.1	21.4	25.9	30.6	40.8	53.1	65.2	75.4
45°	11.1	14.3	16.8	17.3	23.0	29.0	36.2	47.2	65.1	80.4	91.9
42.5°	11.1	14.5	17.8	18.6	24.7	32.2	41.9	56.4	77.6	96.3	118.5
40°	11.1	14.8	18.8	20.4	26.9	35.5	47.9	67.7	91.4	113.0	149.2
37.5°	11.1	15.1	19.8	22.6	29.5	38.9	54.3	79.1	107.2	134.6	182.6
35°	11.1	15.4	20.8	24.8	32.1	43.4	60.6	90.8	123.8	165.5	223.0
32.5°	11.1	15.6	21.9	27.0	34.8	48.5	67.9	102.5	140.9	197.1	269.1
30°	11.1	15.9	23.0	29.2	37.4	53.5	77.4	114.4	158.6	229.4	313.1
27.5°	11.1	16.2	24.1	31.5	41.0	58.4	86.6	127.4	178.0	262.1	354.8
25°	11.1	16.4	25.2	33.7	44.7	63.2	95.5	139.8	200.5	296.2	394.3
22.5°	11.1	16.7	26.4	36.0	48.2	68.1	104.1	151.6	221.4	322.5	434.9
20°	11.1	16.9	27.5	38.2	51.7	73.8	112.3	162.8	240.9	347.2	467.6
17.5°	11.1	17.2	28.7	40.4	55.1	79.3	120.8	173.2	258.8	370.1	498.3
15°	11.1	17.4	29.8	42.6	58.4	84.6	129.3	183.7	275.1	391.1	527.1
12.5°	11.1	17.6	30.9	44.7	61.5	89.7	137.2	194.3	291.5	410.1	553.9
10°	11.1	17.8	32.0	46.8	64.6	94.5	144.6	204.3	307.7	434.6	583.3
7.5°	11.1	18.0	33.0	48.8	67.5	99.2	151.4	213.5	322.4	458.8	621.0
5°	11.1	18.2	34.0	50.8	70.3	103.5	157.6	221.9	335.4	481.3	656.5
2.5°	11.1	18.4	35.0	52.6	72.9	107.6	163.2	229.5	346.7	501.7	689.3
0°	11.1	18.6	35.9	54.4	75.4	111.3	168.2	236.2	356.2	519.5	718.6
-2.5°	11.1	19.3	37.3	56.7	78.9	115.8	174.0	244.3	368.7	534.1	733.3
-5°	11.1	19.9	38.6	58.9	82.3	119.9	179.1	251.4	379.1	545.8	744.0
-7.5°	11.1	20.5	39.8	61.0	85.4	123.7	183.5	257.4	387.2	554.3	750.8
-10°	11.1	21.2	41.0	62.9	88.3	127.1	187.1	262.2	392.9	559.6	753.6
-12.5°	11.1	21.7	42.0	64.7	91.1	130.0	190.0	265.9	395.8	561.6	757.0
-15°	11.1	22.3	43.0	66.4	93.5	132.6	192.0	268.3	395.3	559.2	756.8
-17.5°	11.1	22.8	43.9	67.9	95.7	134.8	193.3	269.8	391.5	553.0	750.5
-20°	11.1	23.3	44.8	69.2	97.7	136.5	194.2	270.6	385.2	543.0	737.5



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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	11.1	23.8	45.5	70.4	99.3	137.8	195.2	270.2	376.7	529.1	718.3
-25°	11.1	24.2	46.2	71.4	100.7	139.4	195.2	268.7	365.8	511.3	698.2
-27.5°	11.1	24.6	46.7	72.2	101.8	140.9	194.4	265.9	352.6	496.0	681.1
-30°	11.1	25.0	47.2	72.8	102.6	141.9	192.7	262.0	344.6	481.9	658.6
-32.5°	11.1	25.3	47.5	73.3	104.0	142.3	190.0	258.6	340.0	464.0	630.4
-35°	11.1	25.5	47.8	73.5	105.1	142.3	189.1	254.7	333.5	442.4	596.5
-37.5°	11.1	25.8	48.0	73.6	105.9	142.3	188.5	249.5	325.1	417.1	564.1
-40°	11.1	25.9	48.1	73.5	106.3	143.0	187.3	242.9	314.8	400.9	532.4
-42.5°	11.1	26.1	48.1	73.4	106.7	143.2	185.3	235.0	304.8	387.4	497.1
-45°	11.1	26.2	48.0	73.6	106.9	143.0	182.5	228.3	294.1	371.5	461.1
-47.5°	11.1	26.2	47.8	73.5	106.8	142.5	179.2	224.3	281.7	353.2	440.1
-50°	11.1	26.2	47.5	73.5	106.4	141.6	177.4	219.5	267.6	336.8	416.2
-52.5°	11.1	26.2	47.1	73.4	105.6	140.3	175.4	214.1	258.3	318.4	388.6
-55°	11.1	26.1	46.6	73.1	104.6	138.6	173.1	208.4	250.6	298.1	362.3
-57.5°	11.1	26.0	46.0	72.6	103.2	136.5	170.3	205.0	241.9	285.1	334.0
-60°	11.1	25.8	45.4	71.9	101.6	134.0	167.1	200.7	233.1	273.5	308.7
-62.5°	11.1	25.6	44.7	71.0	100.2	131.1	163.3	195.7	226.8	260.3	292.7
-65°	11.1	25.4	43.9	69.9	98.5	127.9	159.1	190.1	219.9	249.6	276.1
-67.5°	11.1	25.1	43.0	68.7	96.6	124.6	154.5	183.9	212.4	239.4	262.9
-70°	11.1	24.8	42.0	67.2	94.4	121.3	149.4	177.2	204.4	228.8	251.0
-72.5°	11.1	24.4	40.9	65.6	92.0	117.6	144.3	170.1	196.0	218.2	238.6
-75°	11.1	24.0	39.7	63.9	89.4	113.6	138.8	162.8	187.1	207.1	225.9
-77.5°	11.1	23.6	38.4	62.1	86.7	109.2	132.9	155.2	177.8	195.7	212.7
-80°	11.1	23.1	37.0	60.1	83.8	105.2	126.7	147.2	168.1	184.1	199.5
-82.5°	11.1	22.6	35.6	57.9	80.7	101.3	121.8	139.8	158.1	172.3	186.2
-85°	11.1	22.1	34.1	55.6	77.5	97.2	116.9	133.6	150.4	162.2	173.9
-87.5°	11.1	21.6	32.5	53.2	74.1	92.9	111.7	127.2	142.7	153.2	163.8
-90°	11.1	9.9	8.7	8.7	8.7	8.7	8.7	8.1	7.4	7.4	7.4



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	160.2	167.0	173.2	179.3	186.8	194.2	201.6	209.0	217.1	225.1	233.2
87.5°	7.4	6.8	6.8	6.9	6.3	5.7	5.3	4.9	4.9	4.9	4.8
85°	8.0	7.4	7.4	7.4	6.9	6.6	6.0	5.5	5.5	5.6	5.3
82.5°	8.6	8.1	7.8	7.4	7.3	7.3	6.9	6.4	6.3	6.2	5.8
80°	9.2	8.8	8.2	7.8	7.7	7.5	7.2	7.2	6.9	6.4	6.3
77.5°	9.4	8.8	8.5	8.5	8.2	7.6	7.4	7.4	7.3	7.2	6.9
75°	9.5	8.9	8.9	8.8	8.3	7.7	7.4	7.7	7.8	7.5	7.3
72.5°	10.0	9.7	9.3	9.0	8.7	8.3	8.3	8.6	9.3	9.9	10.5
70°	11.1	10.6	10.2	10.0	9.5	9.5	10.5	12.6	14.6	15.4	17.5
67.5°	12.2	11.9	11.6	11.2	11.3	12.3	13.7	18.2	22.2	24.9	27.9
65°	13.5	13.2	13.3	13.5	13.6	17.4	21.5	26.0	32.9	36.8	37.0
62.5°	15.0	17.0	16.2	17.3	20.9	24.8	31.1	39.2	48.0	51.5	49.2
60°	21.4	22.4	22.9	25.6	29.1	33.4	42.0	51.9	62.0	68.1	59.0
57.5°	29.4	30.7	33.1	34.7	38.6	41.1	51.3	63.2	69.8	73.8	63.4
55°	39.5	41.5	45.0	45.6	48.9	50.0	58.5	66.7	72.3	73.5	62.3
52.5°	52.4	54.6	59.6	60.3	60.5	61.5	62.7	71.8	76.2	75.0	64.7
50°	66.3	73.9	76.6	79.3	75.7	77.2	73.1	83.6	92.5	90.2	93.2
47.5°	86.7	96.3	100.1	105.2	102.6	111.0	107.9	127.9	134.9	174.9	183.8
45°	111.2	128.2	133.3	145.1	157.1	166.9	199.1	201.7	286.1	321.3	387.6
42.5°	140.7	167.3	188.8	193.2	250.6	281.2	326.0	399.6	473.6	541.4	586.4
40°	184.5	212.0	258.2	312.1	373.1	438.9	498.6	584.2	655.8	709.0	740.9
37.5°	234.4	286.7	349.7	446.9	529.3	596.4	664.3	738.2	805.6	852.4	913.4
35°	289.1	365.3	482.2	583.3	671.8	735.0	801.2	879.5	943.3	1018.8	1094.1
32.5°	355.5	445.6	592.1	701.4	773.3	848.1	924.5	1006.9	1098.2	1191.2	1287.5
30°	421.2	536.0	679.2	792.8	862.3	949.5	1042.4	1139.0	1258.7	1375.9	1506.1
27.5°	472.8	613.6	749.8	867.2	948.2	1051.4	1164.8	1290.9	1433.0	1576.4	1749.5
25°	519.0	671.3	821.0	945.4	1048.4	1162.7	1295.9	1447.3	1616.4	1818.1	2362.3
22.5°	564.0	727.6	899.6	1029.2	1144.9	1274.1	1434.7	1611.4	1810.5	2078.5	3040.9
20°	610.3	791.2	974.9	1099.0	1233.1	1377.9	1566.1	1771.1	2017.9	2651.0	4070.6
17.5°	657.7	856.9	1038.9	1160.1	1301.4	1477.9	1696.7	1928.0	2229.0	3187.0	5360.1
15°	704.1	918.9	1090.3	1214.2	1370.0	1575.4	1819.9	2103.2	2602.5	3935.1	6652.1
12.5°	748.4	974.5	1128.4	1260.7	1437.7	1667.4	1934.1	2252.1	3041.4	4944.7	8061.4
10°	790.0	1023.8	1161.6	1305.1	1503.9	1753.7	2036.4	2383.0	3424.7	5751.5	9177.1
7.5°	835.1	1066.0	1191.6	1347.3	1564.8	1832.7	2120.6	2483.8	3710.2	6370.1	10005.8
5°	876.1	1100.3	1226.3	1396.7	1625.5	1903.9	2192.8	2568.3	3905.0	6762.2	10581.0
2.5°	911.8	1127.7	1258.5	1443.6	1682.4	1966.4	2258.1	2652.8	4078.9	7093.7	11308.7
0°	942.4	1149.0	1287.5	1485.4	1731.5	2018.4	2311.6	2720.9	4195.2	7316.9	12152.7
-2.5°	961.1	1180.9	1335.8	1529.3	1772.1	2055.3	2359.9	2793.6	4312.9	7799.4	12474.2
-5°	974.5	1206.6	1379.1	1567.7	1804.9	2082.2	2395.3	2845.2	4363.6	7932.1	12380.6
-7.5°	982.3	1225.3	1416.2	1601.3	1834.3	2113.5	2451.1	2914.2	4386.6	7605.0	11850.0
-10°	986.4	1241.0	1440.5	1629.1	1861.5	2142.3	2494.6	2958.7	4292.4	7163.6	11239.6
-12.5°	997.0	1254.4	1459.8	1649.7	1879.6	2163.0	2528.4	2992.2	4077.7	6557.1	10400.6
-15°	999.7	1261.3	1475.9	1663.8	1898.5	2193.3	2554.1	2997.9	3767.8	5773.4	9329.5
-17.5°	994.2	1261.6	1487.2	1674.8	1908.0	2204.9	2562.2	2981.4	3536.2	5203.9	8251.7
-20°	979.7	1246.9	1490.6	1675.8	1904.4	2209.7	2566.3	2974.3	3479.7	4621.8	6944.8



REPORT NUMBER: P735967 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-4S-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	956.2	1223.6	1478.6	1674.1	1916.8	2211.7	2554.4	2930.3	3357.2	3919.5	5643.8
-25°	931.0	1190.5	1447.3	1680.0	1919.1	2201.3	2504.4	2849.6	3243.7	3683.5	4715.4
-27.5°	903.8	1151.9	1415.1	1672.5	1907.4	2162.8	2444.3	2767.8	3092.3	3447.5	3887.0
-30°	870.8	1109.9	1372.0	1645.4	1879.7	2118.3	2377.9	2639.4	2930.3	3250.0	3622.3
-32.5°	831.4	1060.5	1318.6	1588.8	1843.1	2066.7	2283.7	2518.6	2778.2	3060.1	3368.0
-35°	788.4	1010.4	1255.9	1519.7	1798.4	2003.7	2192.3	2395.4	2625.4	2883.0	3169.0
-37.5°	744.9	952.6	1182.4	1439.7	1710.6	1925.6	2095.5	2285.0	2487.5	2708.1	2974.0
-40°	695.6	886.1	1105.8	1348.9	1589.2	1821.5	2008.2	2180.0	2358.0	2559.8	2777.0
-42.5°	642.4	821.4	1022.0	1242.2	1460.4	1681.9	1915.8	2084.6	2243.8	2415.2	2605.6
-45°	598.0	749.9	931.3	1127.2	1323.9	1538.4	1764.0	1989.8	2135.1	2283.4	2445.6
-47.5°	546.6	677.4	843.3	1006.5	1188.0	1390.2	1603.9	1813.3	2019.7	2164.0	2300.5
-50°	497.5	616.0	742.7	892.9	1054.6	1241.3	1437.1	1628.5	1822.0	2017.4	2173.2
-52.5°	463.8	550.2	660.1	778.8	928.3	1093.3	1265.0	1435.5	1617.3	1803.7	1983.3
-55°	427.3	501.4	579.7	680.5	803.7	950.6	1093.4	1246.2	1402.3	1574.3	1749.2
-57.5°	392.6	454.0	515.4	592.0	695.7	808.0	933.2	1058.6	1200.1	1344.1	1493.9
-60°	358.3	408.6	460.8	521.9	593.2	688.0	778.6	887.9	1005.4	1123.8	1257.0
-62.5°	325.3	366.4	409.9	461.5	521.1	577.0	651.9	736.7	821.4	926.3	1034.2
-65°	306.0	328.8	363.0	407.8	454.1	503.6	552.3	604.2	678.0	756.2	832.9
-67.5°	285.5	306.5	327.8	355.5	396.1	434.7	473.8	519.5	566.5	617.2	673.0
-70°	270.1	284.7	303.6	325.4	346.6	370.0	404.8	441.1	477.3	516.7	560.5
-72.5°	255.5	269.2	283.3	298.6	317.2	335.1	353.4	373.0	401.5	436.2	468.6
-75°	240.8	253.4	266.3	279.7	293.7	307.2	321.7	339.3	358.9	380.2	400.0
-77.5°	225.9	237.6	249.4	260.9	273.6	286.7	299.1	311.8	327.1	343.5	359.2
-80°	211.1	221.5	232.5	243.2	254.3	265.7	276.7	287.3	300.6	314.7	328.5
-82.5°	196.7	206.5	215.9	225.3	235.0	244.5	254.3	264.3	276.4	288.8	300.6
-85°	182.7	191.4	199.4	207.3	216.2	224.9	233.4	241.8	252.9	264.1	274.2
-87.5°	171.5	179.3	186.0	192.7	200.6	208.4	215.7	222.9	232.5	242.1	250.7
-90°	6.8	6.2	6.2	6.2	5.6	4.9	4.9	4.9	4.9	4.9	4.3



REPORT NUMBER: P735967 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	241.2	246.8	252.3	256.0	259.7	265.3	270.9	278.9	286.9	293.7	300.5
87.5°	4.7	4.2	3.7	3.6	3.6	3.6	3.6	3.1	2.5	2.5	2.5
85°	4.9	4.7	4.6	4.6	4.7	4.2	3.7	3.6	3.6	3.6	3.7
82.5°	5.5	5.3	4.9	4.9	4.9	4.8	4.7	4.2	3.7	3.7	3.7
80°	6.2	5.9	5.6	5.3	5.0	4.9	4.9	4.4	3.8	3.7	3.7
77.5°	6.4	6.4	6.2	5.7	5.0	4.9	4.9	4.4	3.8	3.7	3.7
75°	7.3	7.2	7.1	6.9	6.7	6.9	7.3	7.1	6.8	6.4	6.0
72.5°	11.1	11.2	10.9	11.6	12.3	12.8	13.1	13.5	14.0	14.9	16.0
70°	19.7	21.3	21.3	21.2	21.2	20.6	19.9	19.7	19.8	20.1	20.5
67.5°	29.7	31.0	31.5	31.8	29.0	27.2	26.4	26.5	27.6	29.8	33.1
65°	37.9	35.6	33.5	31.4	31.6	31.5	30.0	29.3	30.3	31.7	33.2
62.5°	45.0	35.8	29.9	26.9	27.4	28.4	25.7	23.6	22.9	22.5	22.6
60°	48.4	33.7	23.8	20.1	18.0	17.0	15.1	12.9	12.3	12.1	12.4
57.5°	48.9	32.1	18.9	14.9	11.4	8.8	7.4	6.5	6.5	6.3	6.1
55°	47.4	32.5	18.4	16.8	15.4	14.1	12.3	11.9	11.3	11.2	11.9
52.5°	49.1	45.5	37.2	36.1	44.0	44.3	38.1	47.0	52.9	57.5	59.7
50°	97.1	93.2	117.8	117.8	142.6	163.9	157.8	170.2	191.7	210.4	221.8
47.5°	226.8	244.6	281.5	314.5	351.8	399.0	419.9	434.8	453.5	478.7	495.6
45°	422.4	466.6	514.4	567.9	630.4	685.7	717.9	748.8	769.3	791.7	818.2
42.5°	627.1	679.9	750.8	814.8	882.5	947.0	997.8	1042.7	1130.1	1254.7	1353.9
40°	802.5	862.5	944.9	1030.2	1109.8	1191.4	1416.0	1607.4	1845.9	2202.0	2517.6
37.5°	976.6	1045.9	1137.9	1242.4	1482.6	1725.9	2216.4	2746.3	3205.4	3720.2	4240.0
35°	1166.3	1257.4	1380.3	1732.1	2176.8	2825.1	3528.5	4315.5	4983.5	5702.4	6755.5
32.5°	1390.3	1549.4	1946.9	2586.3	3383.7	4304.7	5177.2	6166.5	7000.8	8321.5	9929.9
30°	1679.1	2177.9	2941.0	3823.8	4899.9	6065.7	7159.6	8761.9	10633.7	12290.8	13659.2
27.5°	2375.6	3339.0	4404.5	5523.3	6870.8	8283.5	10577.2	12651.0	14664.9	16454.2	18532.8
25°	3415.6	4961.2	6782.2	8282.1	10113.1	12666.1	15259.8	17543.7	20604.6	23296.8	26316.9
22.5°	4886.7	7087.5	9433.0	11622.9	14434.7	17632.2	21121.9	25330.0	29582.3	34305.6	38507.6
20°	6322.5	9106.9	12077.3	15229.8	18830.9	22828.7	28533.1	35362.5	41914.9	49356.4	55631.3
17.5°	8234.6	11600.5	15113.5	19120.8	23750.7	29901.2	38320.9	47659.1	57791.6	68903.7	79179.5
15°	10178.9	13805.1	17887.0	23015.9	29564.7	37923.9	48665.3	61377.5	76195.6	92530.8	112390.1
12.5°	11772.4	15737.6	20510.7	26974.2	35539.4	46718.4	59732.6	75035.1	95350.0	119988.1	143060.8
10°	13133.8	17888.4	23919.9	31569.4	41644.2	54264.3	69048.2	87993.8	115359.1	143901.4	169221.6
7.5°	14536.2	20161.0	26548.6	34842.4	46297.5	60622.5	78827.4	103567.8	133676.8	162951.6	186171.4
5°	15858.9	21710.7	28207.3	37068.4	49456.0	64841.0	85496.6	115630.5	148395.6	177068.4	198883.3
2.5°	16895.1	22490.1	29080.8	38726.1	51163.5	67133.8	89677.4	123089.8	157460.4	185718.8	208088.3
0°	17432.6	22912.8	29565.5	39762.9	52579.7	69238.1	92074.2	126381.6	161147.8	188666.4	211466.6
-2.5°	17313.7	22708.8	29265.4	38962.7	52256.1	69618.8	94067.1	128097.1	161782.9	189671.8	211159.7
-5°	17063.5	22387.3	28853.5	37979.6	51097.1	68661.7	91903.2	123189.3	155722.2	184329.9	205219.6
-7.5°	16597.2	21849.2	28031.9	36541.5	49176.3	65809.3	86782.5	113968.9	145178.8	173841.6	194064.6
-10°	15911.3	21017.8	26852.7	34592.1	45939.1	61216.3	79047.1	100277.8	129473.4	156271.6	178742.0
-12.5°	14936.4	19841.7	25216.9	31867.4	42029.3	55492.6	70864.5	88504.7	109371.1	135215.9	156278.5
-15°	13695.9	18309.1	23303.9	29578.9	38075.9	49107.1	62067.5	75752.2	91745.6	109585.8	130116.1
-17.5°	12173.4	16506.8	21158.1	26567.9	33439.7	42694.9	52947.2	63625.2	75169.4	88298.1	100359.8
-20°	10357.9	14321.7	18705.0	23736.8	29625.0	36310.1	43762.9	52395.2	61343.5	70713.7	79004.2



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 CATALOG NUMBER: EPH-LS-08-0680N-40-70-4S-VHE

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	8514.4	12130.3	16307.3	20707.0	25824.9	30927.7	35933.4	42351.8	49262.0	56045.7	62216.5
-25°	6662.1	9854.2	13737.8	17864.5	21972.2	26140.3	30204.6	34190.2	39162.8	43529.2	48058.4
-27.5°	5291.6	7679.5	10940.6	14541.8	18121.1	21599.2	25113.1	28442.2	31578.2	34215.2	37268.8
-30°	4161.5	5773.4	8292.6	11126.5	14258.3	17322.8	20350.8	23163.1	25632.5	27803.7	29924.2
-32.5°	3762.6	4420.7	5917.7	8071.3	10542.1	13230.5	15761.6	18177.1	20213.1	22230.8	24130.8
-35°	3480.5	3842.9	4332.3	5677.6	7286.6	9426.2	11410.2	13414.9	15124.7	17139.9	18698.0
-37.5°	3249.3	3528.4	3837.9	4155.2	5133.7	6204.9	7633.3	9136.1	10457.0	12147.4	13523.0
-40°	3025.6	3272.7	3514.5	3755.8	4016.0	4255.1	5105.3	5880.2	6776.2	7932.5	8921.9
-42.5°	2809.2	3026.8	3236.3	3432.3	3614.2	3771.1	3942.2	4106.2	4590.0	5179.4	5632.1
-45°	2615.0	2800.0	2975.3	3141.1	3279.7	3405.3	3537.1	3674.3	3854.2	4017.7	4152.7
-47.5°	2449.9	2596.1	2739.8	2874.8	2981.3	3088.5	3193.5	3311.9	3452.0	3589.2	3704.1
-50°	2300.6	2427.1	2536.1	2631.8	2720.3	2811.0	2894.6	2999.8	3112.5	3226.1	3321.0
-52.5°	2157.5	2270.1	2361.1	2434.0	2501.4	2575.4	2647.3	2731.2	2822.7	2918.3	2993.7
-55°	1917.1	2060.2	2192.5	2260.9	2313.7	2374.8	2435.7	2503.6	2580.9	2661.1	2721.0
-57.5°	1651.5	1792.7	1917.3	2006.0	2093.7	2183.2	2250.3	2303.4	2373.3	2441.8	2493.5
-60°	1384.6	1503.0	1613.1	1702.9	1794.3	1883.9	1959.3	2028.6	2115.1	2193.6	2257.6
-62.5°	1136.3	1239.8	1324.8	1397.4	1475.3	1553.3	1625.1	1693.5	1772.0	1842.5	1902.4
-65°	910.5	997.4	1060.3	1117.3	1179.3	1243.8	1300.7	1357.4	1420.5	1477.0	1526.1
-67.5°	736.2	793.9	833.0	869.4	918.5	968.7	1013.3	1058.4	1106.6	1149.4	1186.6
-70°	602.7	638.7	662.8	690.7	725.7	757.8	787.1	820.0	855.5	888.3	918.0
-72.5°	499.7	524.3	542.4	564.7	586.9	607.3	625.8	649.4	675.3	700.6	724.6
-75°	418.5	434.5	451.8	467.9	483.1	497.9	511.6	530.6	550.5	569.5	587.7
-77.5°	375.6	387.5	397.2	406.0	414.4	423.9	433.4	449.4	466.8	481.5	495.4
-80°	342.2	351.5	359.5	366.3	372.6	380.4	388.3	401.4	415.1	427.4	439.5
-82.5°	312.3	320.3	327.7	334.0	339.9	346.7	353.3	364.8	376.6	387.1	397.4
-85°	284.4	291.3	297.9	303.5	309.0	315.2	321.3	331.3	341.3	350.7	359.9
-87.5°	259.3	265.5	271.6	275.7	279.9	285.8	291.7	300.6	309.6	317.8	326.1
-90°	3.7	3.7	3.7	3.1	2.5	2.5	2.5	2.5	2.5	1.9	1.2



REPORT NUMBER: P735967 (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°
90°	304.3	308.0	308.6	309.2	308.6	308.0	304.3	300.5	293.7	286.9	278.9
87.5°	1.8	1.2	1.8	2.5	1.8	1.2	1.8	2.5	2.5	2.5	3.1
85°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6
82.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.2
80°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.8	4.4
77.5°	3.2	2.6	3.1	3.7	3.1	2.6	3.2	3.7	3.7	3.8	4.4
75°	5.5	4.9	4.3	3.7	4.3	4.9	5.5	6.0	6.4	6.8	7.1
72.5°	16.6	17.0	17.8	18.6	17.8	17.0	16.6	16.0	14.9	14.0	13.5
70°	19.8	18.7	18.6	18.6	18.6	18.7	19.8	20.5	20.1	19.8	19.7
67.5°	35.5	37.4	38.1	38.3	38.1	37.4	35.5	33.1	29.8	27.6	26.5
65°	34.5	35.7	35.9	35.9	35.9	35.7	34.5	33.2	31.7	30.3	29.3
62.5°	23.0	23.7	24.2	24.7	24.2	23.7	23.0	22.6	22.5	22.9	23.6
60°	12.9	13.7	14.2	14.8	14.2	13.7	12.9	12.4	12.1	12.3	12.9
57.5°	6.0	6.4	6.8	7.4	6.8	6.4	6.0	6.1	6.3	6.5	6.5
55°	12.4	13.1	13.5	13.6	13.5	13.1	12.4	11.9	11.2	11.3	11.9
52.5°	58.6	55.9	53.6	51.9	53.6	55.9	58.6	59.7	57.5	52.9	47.0
50°	226.6	221.1	214.9	209.0	214.9	221.1	226.6	221.8	210.4	191.7	170.2
47.5°	505.7	501.2	491.9	479.9	491.9	501.2	505.7	495.6	478.7	453.5	434.8
45°	854.6	879.4	890.4	884.3	890.4	879.4	854.6	818.2	791.7	769.3	748.8
42.5°	1387.6	1409.4	1411.3	1379.0	1411.3	1409.4	1387.6	1353.9	1254.7	1130.1	1042.7
40°	2745.9	2936.2	3001.4	2805.0	3001.4	2936.2	2745.9	2517.6	2202.0	1845.9	1607.4
37.5°	4866.6	5614.3	6237.9	6261.9	6237.9	5614.3	4866.6	4240.0	3720.2	3205.4	2746.3
35°	7887.2	8656.4	9028.3	9012.5	9028.3	8656.4	7887.2	6755.5	5702.4	4983.5	4315.5
32.5°	11085.7	11668.3	12040.8	11951.1	12040.8	11668.3	11085.7	9929.9	8321.5	7000.8	6166.5
30°	14636.5	15177.1	15611.2	15604.6	15611.2	15177.1	14636.5	13659.2	12290.8	10633.7	8761.9
27.5°	20224.9	21338.9	22224.4	22074.3	22224.4	21338.9	20224.9	18532.8	16454.2	14664.9	12651.0
25°	28864.4	30902.2	32343.0	32046.5	32343.0	30902.2	28864.4	26316.9	23296.8	20604.6	17543.7
22.5°	41627.2	44241.4	45334.5	44467.6	45334.5	44241.4	41627.2	38507.6	34305.6	29582.3	25330.0
20°	61609.2	66455.9	69469.1	67672.3	69469.1	66455.9	61609.2	55631.3	49356.4	41914.9	35362.5
17.5°	92479.2	102993.7	111301.5	111072.5	111301.5	102993.7	92479.2	79179.5	68903.7	57791.6	47659.1
15°	129680.5	141648.2	150863.2	151928.7	150863.2	141648.2	129680.5	112390.1	92530.8	76195.6	61377.5
12.5°	162990.5	175161.6	184179.3	186774.1	184179.3	175161.6	162990.5	143060.8	119988.1	95350.0	75035.1
10°	186730.3	198876.3	207604.6	210682.5	207604.6	198876.3	186730.3	169221.6	143901.4	115359.1	87993.8
7.5°	204145.6	217322.9	223865.6	227209.8	223865.6	217322.9	204145.6	186171.4	162951.6	133676.8	103567.8
5°	216677.1	228923.7	235253.3	239305.6	235253.3	228923.7	216677.1	198883.3	177068.4	148395.6	115630.5
2.5°	224576.6	236138.6	243739.6	247374.4	243739.6	236138.6	224576.6	208088.3	185718.8	157460.4	123089.8
0°	227126.3	238225.9	246745.5	250003.8	246745.5	238225.9	227126.3	211466.6	188666.4	161147.8	126381.6
-2.5°	225940.4	236813.4	243608.4	244925.6	243608.4	236813.4	225940.4	211159.7	189671.8	161782.9	128097.1
-5°	219768.7	229790.0	236064.4	237095.4	236064.4	229790.0	219768.7	205219.6	184329.9	155722.2	123189.3
-7.5°	209128.8	219125.5	224311.8	225838.7	224311.8	219125.5	209128.8	194064.6	173841.6	145178.8	113968.9
-10°	193702.1	203359.9	208902.8	210217.5	208902.8	203359.9	193702.1	178742.0	156271.6	129473.4	100277.8
-12.5°	172651.9	182954.9	189158.6	190525.3	189158.6	182954.9	172651.9	156278.5	135215.9	109371.1	88504.7
-15°	145356.0	155954.0	163873.5	165789.4	163873.5	155954.0	145356.0	130116.1	109585.8	91745.6	75752.2
-17.5°	113892.1	124497.4	131613.9	132972.4	131613.9	124497.4	113892.1	100359.8	88298.1	75169.4	63625.2
-20°	86793.3	93614.0	97630.4	98329.9	97630.4	93614.0	86793.3	79004.2	70713.7	61343.5	52395.2



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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°	67259.5	71843.8	74289.1	74634.2	74289.1	71843.8	67259.5	62216.5	56045.7	49262.0	42351.8
-25°	52119.7	55450.5	57271.9	57575.1	57271.9	55450.5	52119.7	48058.4	43529.2	39162.8	34190.2
-27.5°	40019.0	42088.1	43782.8	43429.9	43782.8	42088.1	40019.0	37268.8	34215.2	31578.2	28442.2
-30°	31666.4	32993.5	33994.5	33732.3	33994.5	32993.5	31666.4	29924.2	27803.7	25632.5	23163.1
-32.5°	25629.8	26669.5	27373.2	27560.7	27373.2	26669.5	25629.8	24130.8	22230.8	20213.1	18177.1
-35°	19920.7	20770.2	21257.9	21447.2	21257.9	20770.2	19920.7	18698.0	17139.9	15124.7	13414.9
-37.5°	14544.1	15289.3	15754.6	15916.3	15754.6	15289.3	14544.1	13523.0	12147.4	10457.0	9136.1
-40°	9679.5	10253.7	10634.9	10782.3	10634.9	10253.7	9679.5	8921.9	7932.5	6776.2	5880.2
-42.5°	5984.7	6253.5	6423.7	6477.1	6423.7	6253.5	5984.7	5632.1	5179.4	4590.0	4106.2
-45°	4257.0	4331.3	4373.8	4382.0	4373.8	4331.3	4257.0	4152.7	4017.7	3854.2	3674.3
-47.5°	3793.8	3852.3	3882.2	3883.5	3882.2	3852.3	3793.8	3704.1	3589.2	3452.0	3311.9
-50°	3399.4	3453.6	3481.0	3482.8	3481.0	3453.6	3399.4	3321.0	3226.1	3112.5	2999.8
-52.5°	3055.5	3098.8	3118.8	3119.2	3118.8	3098.8	3055.5	2993.7	2918.3	2822.7	2731.2
-55°	2770.1	2803.7	2816.1	2813.7	2816.1	2803.7	2770.1	2721.0	2661.1	2580.9	2503.6
-57.5°	2536.5	2569.4	2579.8	2576.2	2579.8	2569.4	2536.5	2493.5	2441.8	2373.3	2303.4
-60°	2307.4	2342.6	2355.9	2354.9	2355.9	2342.6	2307.4	2257.6	2193.6	2115.1	2028.6
-62.5°	1945.2	1972.2	1986.7	1991.2	1986.7	1972.2	1945.2	1902.4	1842.5	1772.0	1693.5
-65°	1559.8	1581.4	1593.0	1596.7	1593.0	1581.4	1559.8	1526.1	1477.0	1420.5	1357.4
-67.5°	1210.7	1226.2	1233.7	1235.6	1233.7	1226.2	1210.7	1186.6	1149.4	1106.6	1058.4
-70°	936.4	949.0	955.0	957.3	955.0	949.0	936.4	918.0	888.3	855.5	820.0
-72.5°	738.5	748.6	752.8	754.4	752.8	748.6	738.5	724.6	700.6	675.3	649.4
-75°	596.3	602.4	604.8	606.0	604.8	602.4	596.3	587.7	569.5	550.5	530.6
-77.5°	502.9	509.4	511.7	513.3	511.7	509.4	502.9	495.4	481.5	466.8	449.4
-80°	444.9	449.5	451.3	452.7	451.3	449.5	444.9	439.5	427.4	415.1	401.4
-82.5°	403.9	410.0	410.5	410.6	410.5	410.0	403.9	397.4	387.1	376.6	364.8
-85°	364.8	369.5	370.3	371.0	370.3	369.5	364.8	359.9	350.7	341.3	331.3
-87.5°	330.6	335.1	335.2	335.2	335.2	335.1	330.6	326.1	317.8	309.6	300.6
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.9	2.5	2.5



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	270.9	265.3	259.7	256.0	252.3	246.8	241.2	233.2	225.1	217.1	209.0
87.5°	3.6	3.6	3.6	3.6	3.7	4.2	4.7	4.8	4.9	4.9	4.9
85°	3.7	4.2	4.7	4.6	4.6	4.7	4.9	5.3	5.6	5.5	5.5
82.5°	4.7	4.8	4.9	4.9	4.9	5.3	5.5	5.8	6.2	6.3	6.4
80°	4.9	4.9	5.0	5.3	5.6	5.9	6.2	6.3	6.4	6.9	7.2
77.5°	4.9	4.9	5.0	5.7	6.2	6.4	6.4	6.9	7.2	7.3	7.4
75°	7.3	6.9	6.7	6.9	7.1	7.2	7.3	7.3	7.5	7.8	7.7
72.5°	13.1	12.8	12.3	11.6	10.9	11.2	11.1	10.5	9.9	9.3	8.6
70°	19.9	20.6	21.2	21.2	21.3	21.3	19.7	17.5	15.4	14.6	12.6
67.5°	26.4	27.2	29.0	31.8	31.5	31.0	29.7	27.9	24.9	22.2	18.2
65°	30.0	31.5	31.6	31.4	33.5	35.6	37.9	37.0	36.8	32.9	26.0
62.5°	25.7	28.4	27.4	26.9	29.9	35.8	45.0	49.2	51.5	48.0	39.2
60°	15.1	17.0	18.0	20.1	23.8	33.7	48.4	59.0	68.1	62.0	51.9
57.5°	7.4	8.8	11.4	14.9	18.9	32.1	48.9	63.4	73.8	69.8	63.2
55°	12.3	14.1	15.4	16.8	18.4	32.5	47.4	62.3	73.5	72.3	66.7
52.5°	38.1	44.3	44.0	36.1	37.2	45.5	49.1	64.7	75.0	76.2	71.8
50°	157.8	163.9	142.6	117.8	117.8	93.2	97.1	93.2	90.2	92.5	83.6
47.5°	419.9	399.0	351.8	314.5	281.5	244.6	226.8	183.8	174.9	134.9	127.9
45°	717.9	685.7	630.4	567.9	514.4	466.6	422.4	387.6	321.3	286.1	201.7
42.5°	997.8	947.0	882.5	814.8	750.8	679.9	627.1	586.4	541.4	473.6	399.6
40°	1416.0	1191.4	1109.8	1030.2	944.9	862.5	802.5	740.9	709.0	655.8	584.2
37.5°	2216.4	1725.9	1482.6	1242.4	1137.9	1045.9	976.6	913.4	852.4	805.6	738.2
35°	3528.5	2825.1	2176.8	1732.1	1380.3	1257.4	1166.3	1094.1	1018.8	943.3	879.5
32.5°	5177.2	4304.7	3383.7	2586.3	1946.9	1549.4	1390.3	1287.5	1191.2	1098.2	1006.9
30°	7159.6	6065.7	4899.9	3823.8	2941.0	2177.9	1679.1	1506.1	1375.9	1258.7	1139.0
27.5°	10577.2	8283.5	6870.8	5523.3	4404.5	3339.0	2375.6	1749.5	1576.4	1433.0	1290.9
25°	15259.8	12666.1	10113.1	8282.1	6782.2	4961.2	3415.6	2362.3	1818.1	1616.4	1447.3
22.5°	21121.9	17632.2	14434.7	11622.9	9433.0	7087.5	4886.7	3040.9	2078.5	1810.5	1611.4
20°	28533.1	22828.7	18830.9	15229.8	12077.3	9106.9	6322.5	4070.6	2651.0	2017.9	1771.1
17.5°	38320.9	29901.2	23750.7	19120.8	15113.5	11600.5	8234.6	5360.1	3187.0	2229.0	1928.0
15°	48665.3	37923.9	29564.7	23015.9	17887.0	13805.1	10178.9	6652.1	3935.1	2602.5	2103.2
12.5°	59732.6	46718.4	35539.4	26974.2	20510.7	15737.6	11772.4	8061.4	4944.7	3041.4	2252.1
10°	69048.2	54264.3	41644.2	31569.4	23919.9	17888.4	13133.8	9177.1	5751.5	3424.7	2383.0
7.5°	78827.4	60622.5	46297.5	34842.4	26548.6	20161.0	14536.2	10005.8	6370.1	3710.2	2483.8
5°	85496.6	64841.0	49456.0	37068.4	28207.3	21710.7	15858.9	10581.0	6762.2	3905.0	2568.3
2.5°	89677.4	67133.8	51163.5	38726.1	29080.8	22490.1	16895.1	11308.7	7093.7	4078.9	2652.8
0°	92074.2	69238.1	52579.7	39762.9	29565.5	22912.8	17432.6	12152.7	7316.9	4195.2	2720.9
-2.5°	94067.1	69618.8	52256.1	38962.7	29265.4	22708.8	17313.7	12474.2	7799.4	4312.9	2793.6
-5°	91903.2	68661.7	51097.1	37979.6	28853.5	22387.3	17063.5	12380.6	7932.1	4363.6	2845.2
-7.5°	86782.5	65809.3	49176.3	36541.5	28031.9	21849.2	16597.2	11850.0	7605.0	4386.6	2914.2
-10°	79047.1	61216.3	45939.1	34592.1	26852.7	21017.8	15911.3	11239.6	7163.6	4292.4	2958.7
-12.5°	70864.5	55492.6	42029.3	31867.4	25216.9	19841.7	14936.4	10400.6	6557.1	4077.7	2992.2
-15°	62067.5	49107.1	38075.9	29578.9	23303.9	18309.1	13695.9	9329.5	5773.4	3767.8	2997.9
-17.5°	52947.2	42694.9	33439.7	26567.9	21158.1	16506.8	12173.4	8251.7	5203.9	3536.2	2981.4
-20°	43762.9	36310.1	29625.0	23736.8	18705.0	14321.7	10357.9	6944.8	4621.8	3479.7	2974.3



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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°	35933.4	30927.7	25824.9	20707.0	16307.3	12130.3	8514.4	5643.8	3919.5	3357.2	2930.3
-25°	30204.6	26140.3	21972.2	17864.5	13737.8	9854.2	6662.1	4715.4	3683.5	3243.7	2849.6
-27.5°	25113.1	21599.2	18121.1	14541.8	10940.6	7679.5	5291.6	3887.0	3447.5	3092.3	2767.8
-30°	20350.8	17322.8	14258.3	11126.5	8292.6	5773.4	4161.5	3622.3	3250.0	2930.3	2639.4
-32.5°	15761.6	13230.5	10542.1	8071.3	5917.7	4420.7	3762.6	3368.0	3060.1	2778.2	2518.6
-35°	11410.2	9426.2	7286.6	5677.6	4332.3	3842.9	3480.5	3169.0	2883.0	2625.4	2395.4
-37.5°	7633.3	6204.9	5133.7	4155.2	3837.9	3528.4	3249.3	2974.0	2708.1	2487.5	2285.0
-40°	5105.3	4255.1	4016.0	3755.8	3514.5	3272.7	3025.6	2777.0	2559.8	2358.0	2180.0
-42.5°	3942.2	3771.1	3614.2	3432.3	3236.3	3026.8	2809.2	2605.6	2415.2	2243.8	2084.6
-45°	3537.1	3405.3	3279.7	3141.1	2975.3	2800.0	2615.0	2445.6	2283.4	2135.1	1989.8
-47.5°	3193.5	3088.5	2981.3	2874.8	2739.8	2596.1	2449.9	2300.5	2164.0	2019.7	1813.3
-50°	2894.6	2811.0	2720.3	2631.8	2536.1	2427.1	2300.6	2173.2	2017.4	1822.0	1628.5
-52.5°	2647.3	2575.4	2501.4	2434.0	2361.1	2270.1	2157.5	1983.3	1803.7	1617.3	1435.5
-55°	2435.7	2374.8	2313.7	2260.9	2192.5	2060.2	1917.1	1749.2	1574.3	1402.3	1246.2
-57.5°	2250.3	2183.2	2093.7	2006.0	1917.3	1792.7	1651.5	1493.9	1344.1	1200.1	1058.6
-60°	1959.3	1883.9	1794.3	1702.9	1613.1	1503.0	1384.6	1257.0	1123.8	1005.4	887.9
-62.5°	1625.1	1553.3	1475.3	1397.4	1324.8	1239.8	1136.3	1034.2	926.3	821.4	736.7
-65°	1300.7	1243.8	1179.3	1117.3	1060.3	997.4	910.5	832.9	756.2	678.0	604.2
-67.5°	1013.3	968.7	918.5	869.4	833.0	793.9	736.2	673.0	617.2	566.5	519.5
-70°	787.1	757.8	725.7	690.7	662.8	638.7	602.7	560.5	516.7	477.3	441.1
-72.5°	625.8	607.3	586.9	564.7	542.4	524.3	499.7	468.6	436.2	401.5	373.0
-75°	511.6	497.9	483.1	467.9	451.8	434.5	418.5	400.0	380.2	358.9	339.3
-77.5°	433.4	423.9	414.4	406.0	397.2	387.5	375.6	359.2	343.5	327.1	311.8
-80°	388.3	380.4	372.6	366.3	359.5	351.5	342.2	328.5	314.7	300.6	287.3
-82.5°	353.3	346.7	339.9	334.0	327.7	320.3	312.3	300.6	288.8	276.4	264.3
-85°	321.3	315.2	309.0	303.5	297.9	291.3	284.4	274.2	264.1	252.9	241.8
-87.5°	291.7	285.8	279.9	275.7	271.6	265.5	259.3	250.7	242.1	232.5	222.9
-90°	2.5	2.5	2.5	3.1	3.7	3.7	3.7	4.3	4.9	4.9	4.9



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 CATALOG NUMBER: EPH-LS-08-0680N-40-70-4S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	201.6	194.2	186.8	179.3	173.2	167.0	160.2	153.4	144.1	134.8	120.6
87.5°	5.3	5.7	6.3	6.9	6.8	6.8	7.4	7.9	7.9	7.8	8.4
85°	6.0	6.6	6.9	7.4	7.4	7.4	8.0	8.5	8.4	8.3	8.8
82.5°	6.9	7.3	7.3	7.4	7.8	8.1	8.6	9.0	9.0	8.8	9.2
80°	7.2	7.5	7.7	7.8	8.2	8.8	9.2	9.6	9.7	9.6	9.8
77.5°	7.4	7.6	8.2	8.5	8.5	8.8	9.4	10.0	10.4	10.5	10.6
75°	7.4	7.7	8.3	8.8	8.9	8.9	9.5	10.2	10.9	11.3	11.4
72.5°	8.3	8.3	8.7	9.0	9.3	9.7	10.0	10.4	11.3	11.9	12.1
70°	10.5	9.5	9.5	10.0	10.2	10.6	11.1	11.4	11.8	12.5	12.8
67.5°	13.7	12.3	11.3	11.2	11.6	11.9	12.2	12.5	12.8	13.1	13.4
65°	21.5	17.4	13.6	13.5	13.3	13.2	13.5	14.0	13.9	14.6	14.2
62.5°	31.1	24.8	20.9	17.3	16.2	17.0	15.0	16.7	15.4	16.3	15.8
60°	42.0	33.4	29.1	25.6	22.9	22.4	21.4	19.9	19.5	18.3	18.0
57.5°	51.3	41.1	38.6	34.7	33.1	30.7	29.4	26.9	24.3	22.7	20.4
55°	58.5	50.0	48.9	45.6	45.0	41.5	39.5	36.2	30.7	28.2	23.1
52.5°	62.7	61.5	60.5	60.3	59.6	54.6	52.4	46.2	41.4	34.0	28.6
50°	73.1	77.2	75.7	79.3	76.6	73.9	66.3	59.9	52.9	41.7	34.5
47.5°	107.9	111.0	102.6	105.2	100.1	96.3	86.7	75.4	65.2	53.1	40.8
45°	199.1	166.9	157.1	145.1	133.3	128.2	111.2	91.9	80.4	65.1	47.2
42.5°	326.0	281.2	250.6	193.2	188.8	167.3	140.7	118.5	96.3	77.6	56.4
40°	498.6	438.9	373.1	312.1	258.2	212.0	184.5	149.2	113.0	91.4	67.7
37.5°	664.3	596.4	529.3	446.9	349.7	286.7	234.4	182.6	134.6	107.2	79.1
35°	801.2	735.0	671.8	583.3	482.2	365.3	289.1	223.0	165.5	123.8	90.8
32.5°	924.5	848.1	773.3	701.4	592.1	445.6	355.5	269.1	197.1	140.9	102.5
30°	1042.4	949.5	862.3	792.8	679.2	536.0	421.2	313.1	229.4	158.6	114.4
27.5°	1164.8	1051.4	948.2	867.2	749.8	613.6	472.8	354.8	262.1	178.0	127.4
25°	1295.9	1162.7	1048.4	945.4	821.0	671.3	519.0	394.3	296.2	200.5	139.8
22.5°	1434.7	1274.1	1144.9	1029.2	899.6	727.6	564.0	434.9	322.5	221.4	151.6
20°	1566.1	1377.9	1233.1	1099.0	974.9	791.2	610.3	467.6	347.2	240.9	162.8
17.5°	1696.7	1477.9	1301.4	1160.1	1038.9	856.9	657.7	498.3	370.1	258.8	173.2
15°	1819.9	1575.4	1370.0	1214.2	1090.3	918.9	704.1	527.1	391.1	275.1	183.7
12.5°	1934.1	1667.4	1437.7	1260.7	1128.4	974.5	748.4	553.9	410.1	291.5	194.3
10°	2036.4	1753.7	1503.9	1305.1	1161.6	1023.8	790.0	583.3	434.6	307.7	204.3
7.5°	2120.6	1832.7	1564.8	1347.3	1191.6	1066.0	835.1	621.0	458.8	322.4	213.5
5°	2192.8	1903.9	1625.5	1396.7	1226.3	1100.3	876.1	656.5	481.3	335.4	221.9
2.5°	2258.1	1966.4	1682.4	1443.6	1258.5	1127.7	911.8	689.3	501.7	346.7	229.5
0°	2311.6	2018.4	1731.5	1485.4	1287.5	1149.0	942.4	718.6	519.5	356.2	236.2
-2.5°	2359.9	2055.3	1772.1	1529.3	1335.8	1180.9	961.1	733.3	534.1	368.7	244.3
-5°	2395.3	2082.2	1804.9	1567.7	1379.1	1206.6	974.5	744.0	545.8	379.1	251.4
-7.5°	2451.1	2113.5	1834.3	1601.3	1416.2	1225.3	982.3	750.8	554.3	387.2	257.4
-10°	2494.6	2142.3	1861.5	1629.1	1440.5	1241.0	986.4	753.6	559.6	392.9	262.2
-12.5°	2528.4	2163.0	1879.6	1649.7	1459.8	1254.4	997.0	757.0	561.6	395.8	265.9
-15°	2554.1	2193.3	1898.5	1663.8	1475.9	1261.3	999.7	756.8	559.2	395.3	268.3
-17.5°	2562.2	2204.9	1908.0	1674.8	1487.2	1261.6	994.2	750.5	553.0	391.5	269.8
-20°	2566.3	2209.7	1904.4	1675.8	1490.6	1246.9	979.7	737.5	543.0	385.2	270.6



REPORT NUMBER: P735967 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-4S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2554.4	2211.7	1916.8	1674.1	1478.6	1223.6	956.2	718.3	529.1	376.7	270.2
-25°	2504.4	2201.3	1919.1	1680.0	1447.3	1190.5	931.0	698.2	511.3	365.8	268.7
-27.5°	2444.3	2162.8	1907.4	1672.5	1415.1	1151.9	903.8	681.1	496.0	352.6	265.9
-30°	2377.9	2118.3	1879.7	1645.4	1372.0	1109.9	870.8	658.6	481.9	344.6	262.0
-32.5°	2283.7	2066.7	1843.1	1588.8	1318.6	1060.5	831.4	630.4	464.0	340.0	258.6
-35°	2192.3	2003.7	1798.4	1519.7	1255.9	1010.4	788.4	596.5	442.4	333.5	254.7
-37.5°	2095.5	1925.6	1710.6	1439.7	1182.4	952.6	744.9	564.1	417.1	325.1	249.5
-40°	2008.2	1821.5	1589.2	1348.9	1105.8	886.1	695.6	532.4	400.9	314.8	242.9
-42.5°	1915.8	1681.9	1460.4	1242.2	1022.0	821.4	642.4	497.1	387.4	304.8	235.0
-45°	1764.0	1538.4	1323.9	1127.2	931.3	749.9	598.0	461.1	371.5	294.1	228.3
-47.5°	1603.9	1390.2	1188.0	1006.5	843.3	677.4	546.6	440.1	353.2	281.7	224.3
-50°	1437.1	1241.3	1054.6	892.9	742.7	616.0	497.5	416.2	336.8	267.6	219.5
-52.5°	1265.0	1093.3	928.3	778.8	660.1	550.2	463.8	388.6	318.4	258.3	214.1
-55°	1093.4	950.6	803.7	680.5	579.7	501.4	427.3	362.3	298.1	250.6	208.4
-57.5°	933.2	808.0	695.7	592.0	515.4	454.0	392.6	334.0	285.1	241.9	205.0
-60°	778.6	688.0	593.2	521.9	460.8	408.6	358.3	308.7	273.5	233.1	200.7
-62.5°	651.9	577.0	521.1	461.5	409.9	366.4	325.3	292.7	260.3	226.8	195.7
-65°	552.3	503.6	454.1	407.8	363.0	328.8	306.0	276.1	249.6	219.9	190.1
-67.5°	473.8	434.7	396.1	355.5	327.8	306.5	285.5	262.9	239.4	212.4	183.9
-70°	404.8	370.0	346.6	325.4	303.6	284.7	270.1	251.0	228.8	204.4	177.2
-72.5°	353.4	335.1	317.2	298.6	283.3	269.2	255.5	238.6	218.2	196.0	170.1
-75°	321.7	307.2	293.7	279.7	266.3	253.4	240.8	225.9	207.1	187.1	162.8
-77.5°	299.1	286.7	273.6	260.9	249.4	237.6	225.9	212.7	195.7	177.8	155.2
-80°	276.7	265.7	254.3	243.2	232.5	221.5	211.1	199.5	184.1	168.1	147.2
-82.5°	254.3	244.5	235.0	225.3	215.9	206.5	196.7	186.2	172.3	158.1	139.8
-85°	233.4	224.9	216.2	207.3	199.4	191.4	182.7	173.9	162.2	150.4	133.6
-87.5°	215.7	208.4	200.6	192.7	186.0	179.3	171.5	163.8	153.2	142.7	127.2
-90°	4.9	4.9	5.6	6.2	6.2	6.2	6.8	7.4	7.4	7.4	8.1



REPORT NUMBER: P735967 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	106.4	88.4	70.5	50.7	30.9	21.0	11.1
87.5°	9.0	9.1	9.1	9.0	8.9	10.1	11.1
85°	9.3	9.5	9.5	9.3	9.1	10.3	11.1
82.5°	9.7	9.9	9.9	9.6	9.4	10.6	11.1
80°	10.0	10.3	10.4	9.9	9.6	10.8	11.1
77.5°	10.7	10.8	10.8	10.3	9.8	11.0	11.1
75°	11.4	11.3	11.2	10.6	10.1	11.2	11.1
72.5°	12.0	11.9	11.6	10.9	10.4	11.5	11.1
70°	12.7	12.4	12.1	11.2	10.7	11.7	11.1
67.5°	13.5	13.0	12.6	11.7	11.0	12.0	11.1
65°	14.5	13.8	13.1	12.2	11.4	12.2	11.1
62.5°	15.5	14.9	13.7	12.7	11.7	12.5	11.1
60°	16.6	16.1	14.2	13.2	12.1	12.7	11.1
57.5°	19.0	17.3	15.5	13.7	12.8	13.0	11.1
55°	21.6	18.6	16.9	14.3	13.5	13.2	11.1
52.5°	24.3	20.2	18.3	14.8	14.3	13.5	11.1
50°	27.2	23.0	19.8	15.4	15.1	13.7	11.1
47.5°	30.6	25.9	21.4	16.1	15.9	14.0	11.1
45°	36.2	29.0	23.0	17.3	16.8	14.3	11.1
42.5°	41.9	32.2	24.7	18.6	17.8	14.5	11.1
40°	47.9	35.5	26.9	20.4	18.8	14.8	11.1
37.5°	54.3	38.9	29.5	22.6	19.8	15.1	11.1
35°	60.6	43.4	32.1	24.8	20.8	15.4	11.1
32.5°	67.9	48.5	34.8	27.0	21.9	15.6	11.1
30°	77.4	53.5	37.4	29.2	23.0	15.9	11.1
27.5°	86.6	58.4	41.0	31.5	24.1	16.2	11.1
25°	95.5	63.2	44.7	33.7	25.2	16.4	11.1
22.5°	104.1	68.1	48.2	36.0	26.4	16.7	11.1
20°	112.3	73.8	51.7	38.2	27.5	16.9	11.1
17.5°	120.8	79.3	55.1	40.4	28.7	17.2	11.1
15°	129.3	84.6	58.4	42.6	29.8	17.4	11.1
12.5°	137.2	89.7	61.5	44.7	30.9	17.6	11.1
10°	144.6	94.5	64.6	46.8	32.0	17.8	11.1
7.5°	151.4	99.2	67.5	48.8	33.0	18.0	11.1
5°	157.6	103.5	70.3	50.8	34.0	18.2	11.1
2.5°	163.2	107.6	72.9	52.6	35.0	18.4	11.1
0°	168.2	111.3	75.4	54.4	35.9	18.6	11.1
-2.5°	174.0	115.8	78.9	56.7	37.3	19.3	11.1
-5°	179.1	119.9	82.3	58.9	38.6	19.9	11.1
-7.5°	183.5	123.7	85.4	61.0	39.8	20.5	11.1
-10°	187.1	127.1	88.3	62.9	41.0	21.2	11.1
-12.5°	190.0	130.0	91.1	64.7	42.0	21.7	11.1
-15°	192.0	132.6	93.5	66.4	43.0	22.3	11.1
-17.5°	193.3	134.8	95.7	67.9	43.9	22.8	11.1
-20°	194.2	136.5	97.7	69.2	44.8	23.3	11.1



REPORT NUMBER: P735967 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-4S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	195.2	137.8	99.3	70.4	45.5	23.8	11.1
-25°	195.2	139.4	100.7	71.4	46.2	24.2	11.1
-27.5°	194.4	140.9	101.8	72.2	46.7	24.6	11.1
-30°	192.7	141.9	102.6	72.8	47.2	25.0	11.1
-32.5°	190.0	142.3	104.0	73.3	47.5	25.3	11.1
-35°	189.1	142.3	105.1	73.5	47.8	25.5	11.1
-37.5°	188.5	142.3	105.9	73.6	48.0	25.8	11.1
-40°	187.3	143.0	106.3	73.5	48.1	25.9	11.1
-42.5°	185.3	143.2	106.7	73.4	48.1	26.1	11.1
-45°	182.5	143.0	106.9	73.6	48.0	26.2	11.1
-47.5°	179.2	142.5	106.8	73.5	47.8	26.2	11.1
-50°	177.4	141.6	106.4	73.5	47.5	26.2	11.1
-52.5°	175.4	140.3	105.6	73.4	47.1	26.2	11.1
-55°	173.1	138.6	104.6	73.1	46.6	26.1	11.1
-57.5°	170.3	136.5	103.2	72.6	46.0	26.0	11.1
-60°	167.1	134.0	101.6	71.9	45.4	25.8	11.1
-62.5°	163.3	131.1	100.2	71.0	44.7	25.6	11.1
-65°	159.1	127.9	98.5	69.9	43.9	25.4	11.1
-67.5°	154.5	124.6	96.6	68.7	43.0	25.1	11.1
-70°	149.4	121.3	94.4	67.2	42.0	24.8	11.1
-72.5°	144.3	117.6	92.0	65.6	40.9	24.4	11.1
-75°	138.8	113.6	89.4	63.9	39.7	24.0	11.1
-77.5°	132.9	109.2	86.7	62.1	38.4	23.6	11.1
-80°	126.7	105.2	83.8	60.1	37.0	23.1	11.1
-82.5°	121.8	101.3	80.7	57.9	35.6	22.6	11.1
-85°	116.9	97.2	77.5	55.6	34.1	22.1	11.1
-87.5°	111.7	92.9	74.1	53.2	32.5	21.6	11.1
-90°	8.7	8.7	8.7	8.7	8.7	9.9	11.1

(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

