

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: P731493 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-80-5S-VHE**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731493 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-5)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0530N-40-80-5S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 5S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

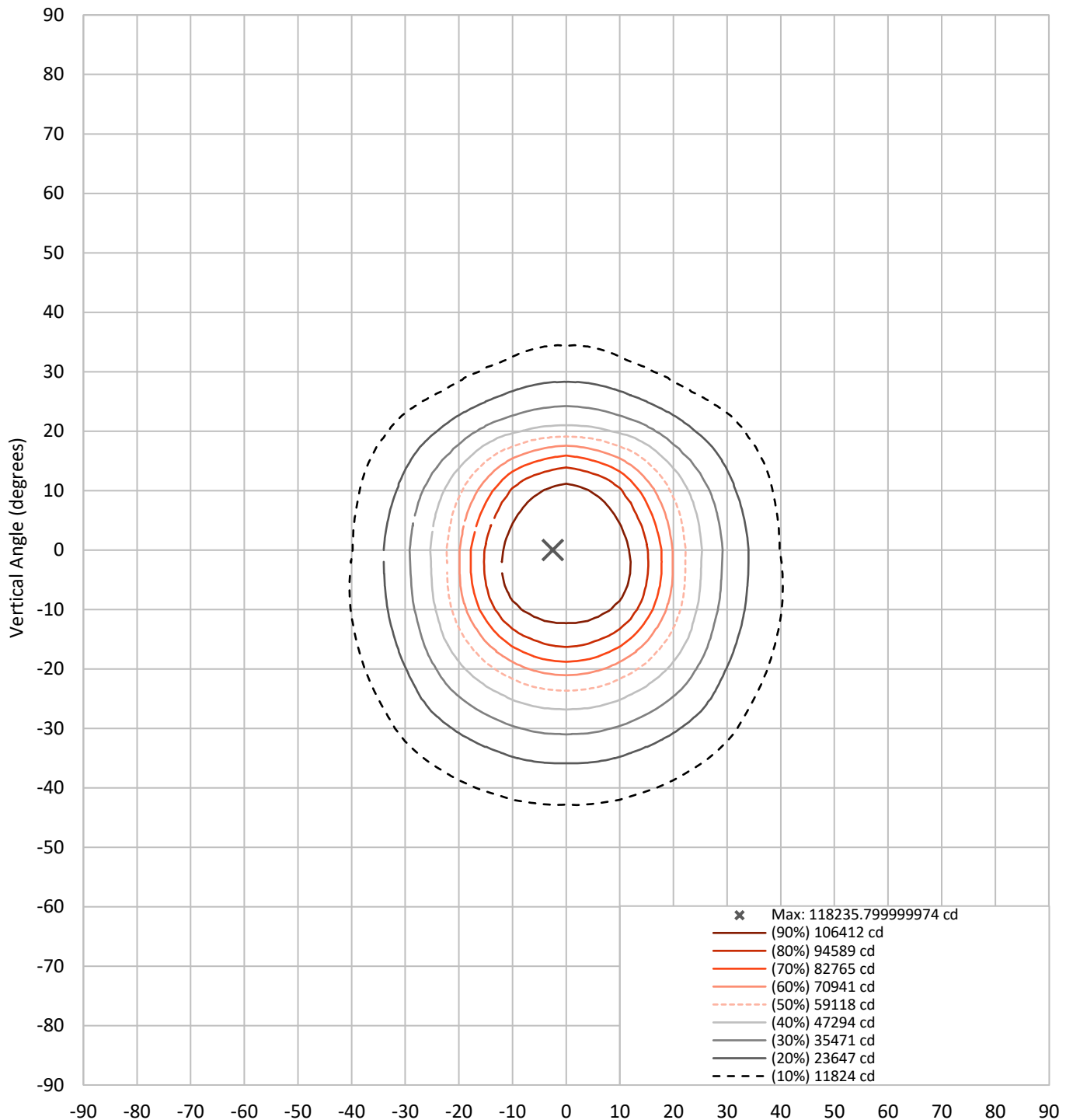
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	76987.5 lumens	Max Intensity:	118235.8 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	137.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	44.5°H x 42.5°V	Field Angle (10%):	79.6°H x 77.3°V
Beam Lumens:	42273.4 lumens	Field Lumens:	70742.1 lumens
Beam Efficiency:	54.9%	Field Efficiency:	91.9%

Input Watts (W): 559.9
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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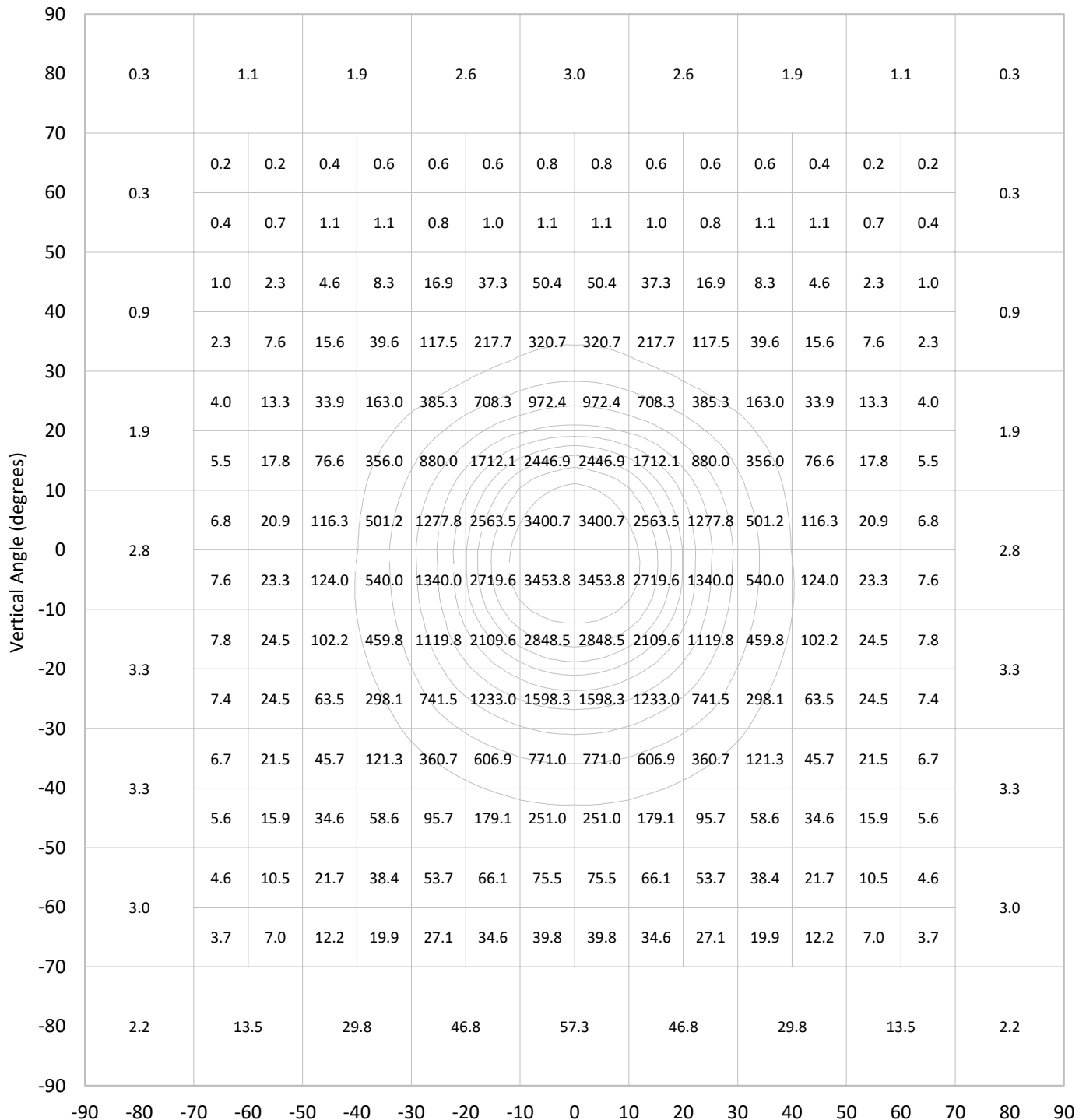
Iso-Candela Plot





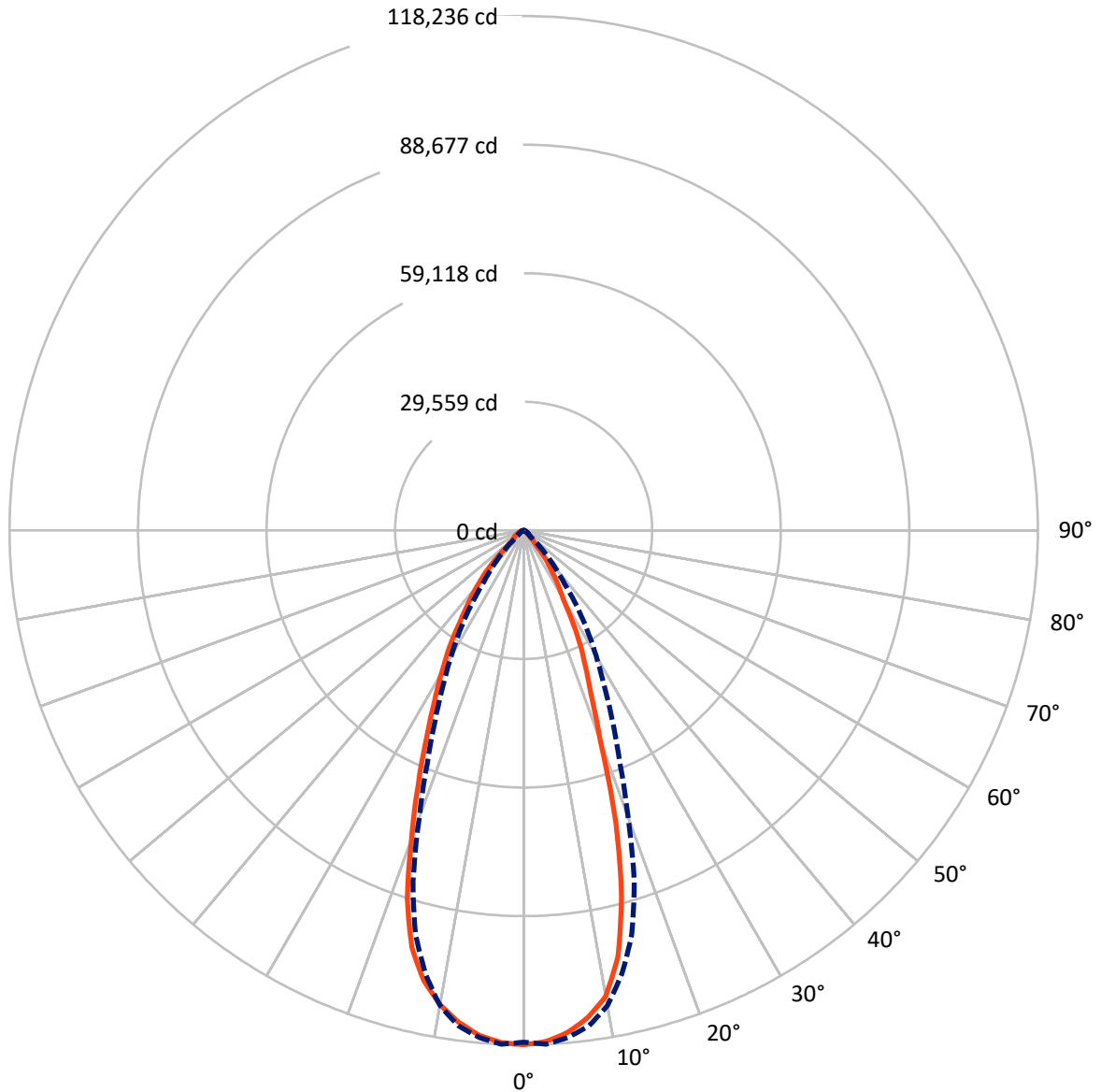
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Lumen Table



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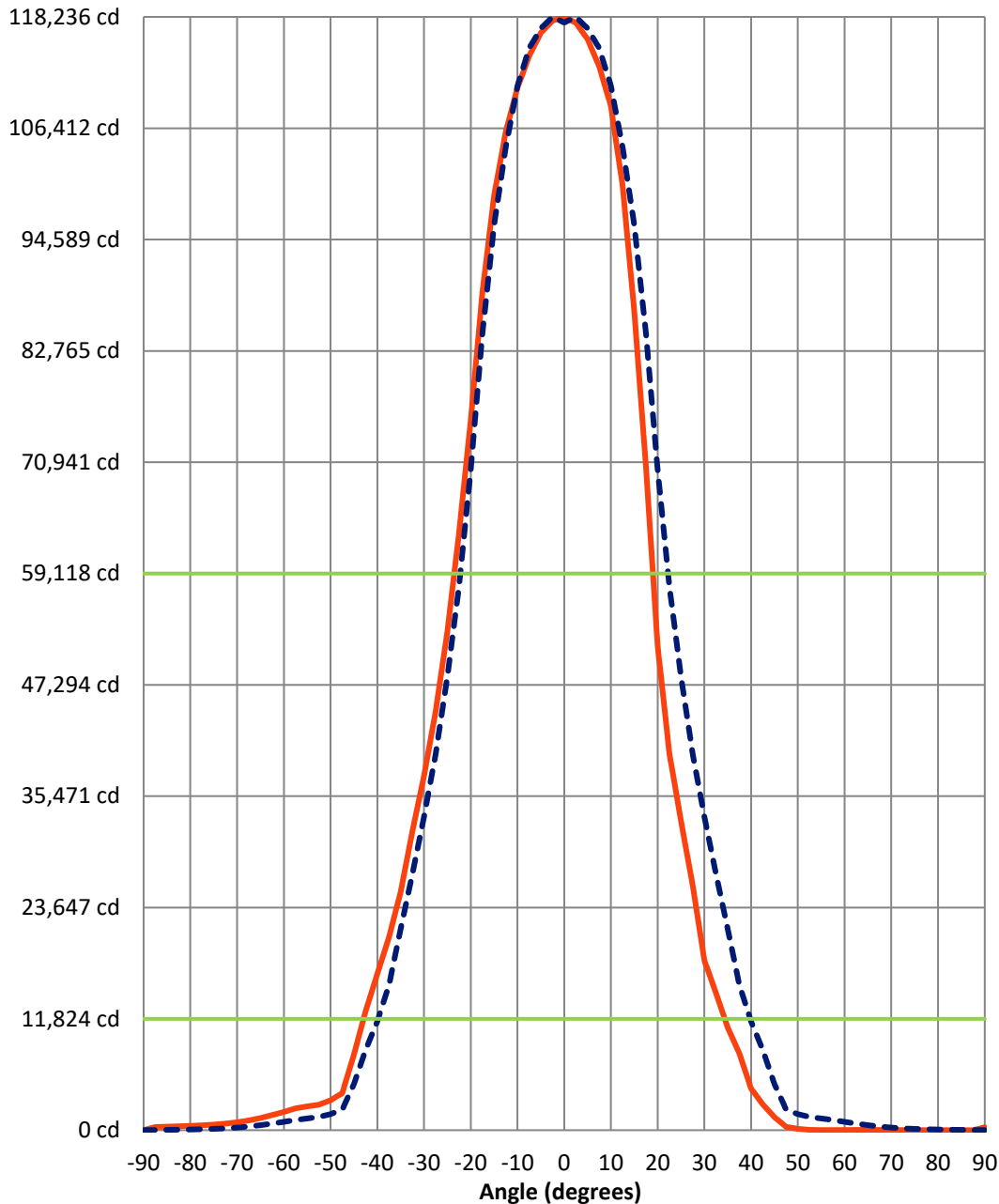
Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 44.5°
 V Angle: 42.5°
 Lumens: 42273.4
 Efficiency: 54.9%

Field:
 H Angle: 79.6°
 V Angle: 77.3°
 Lumens: 70742.1
 Efficiency: 91.9%

Spill:
 Lumens: 6245.4
 Efficiency: 8.1%

— Vertical Distribution through -2.5-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°	10.2	19.9	29.7	49.2	68.8	86.9	105.0	119.9	134.7	145.4	156.1
87.5°	10.2	9.5	8.6	8.7	8.7	8.8	8.9	8.5	8.1	8.0	7.8
85°	10.2	9.7	8.9	9.0	9.0	9.2	9.3	9.0	8.7	8.5	8.3
82.5°	10.2	9.9	9.1	9.3	9.3	9.6	9.8	9.6	9.4	9.1	8.7
80°	10.2	10.1	9.4	9.6	9.7	10.0	10.3	10.2	10.0	9.6	9.1
77.5°	10.2	10.3	9.6	9.9	10.0	10.4	10.8	10.7	10.6	10.2	9.6
75°	10.2	10.5	9.9	10.2	10.4	11.0	11.3	11.3	11.3	10.7	10.0
72.5°	10.2	10.8	10.2	10.5	11.0	11.7	11.9	11.9	11.7	11.2	10.5
70°	10.2	11.0	10.5	10.8	11.7	12.3	12.5	12.6	12.3	11.6	11.4
67.5°	10.2	11.2	10.8	11.4	12.4	13.0	13.3	13.4	12.9	12.7	12.4
65°	10.2	11.4	11.1	11.9	13.0	13.8	14.2	14.2	14.2	13.8	13.8
62.5°	10.2	11.6	11.5	12.5	13.7	14.5	15.0	15.4	15.5	15.3	16.1
60°	10.2	11.8	11.8	13.0	14.4	15.3	15.9	16.8	17.0	18.4	18.7
57.5°	10.2	12.1	12.4	13.6	15.3	16.2	17.7	18.4	20.9	22.3	23.8
55°	10.2	12.3	13.1	14.1	16.3	17.0	19.7	20.3	25.9	27.7	30.6
52.5°	10.2	12.5	13.8	14.6	17.4	18.1	21.9	25.5	31.5	36.1	38.3
50°	10.2	12.8	14.5	15.2	18.6	20.6	24.3	31.3	38.3	45.0	49.5
47.5°	10.2	13.0	15.2	15.8	19.8	23.3	27.2	37.1	47.0	54.4	62.0
45°	10.2	13.2	16.0	16.8	21.2	26.2	32.4	43.0	55.8	66.5	75.2
42.5°	10.2	13.4	16.8	17.9	22.6	29.1	37.5	50.2	65.0	79.0	95.2
40°	10.2	13.7	17.7	19.4	24.5	32.2	43.0	58.4	75.1	92.1	117.4
37.5°	10.2	13.9	18.6	21.3	27.0	35.5	48.9	66.8	86.9	107.7	140.8
35°	10.2	14.1	19.5	23.2	29.4	39.7	54.8	75.2	99.0	128.9	167.9
32.5°	10.2	14.3	20.4	25.1	31.9	44.5	61.3	84.1	111.5	150.5	198.8
30°	10.2	14.6	21.4	27.1	34.5	49.2	68.8	93.5	124.1	172.4	229.0
27.5°	10.2	14.8	22.4	29.1	37.9	53.8	76.1	103.8	138.4	194.6	258.7
25°	10.2	15.0	23.3	31.1	41.3	58.4	83.2	113.6	154.8	218.4	287.7
22.5°	10.2	15.2	24.3	33.2	44.7	63.1	90.1	123.1	170.4	238.9	318.5
20°	10.2	15.4	25.3	35.2	48.0	68.1	96.8	132.0	185.0	258.4	344.1
17.5°	10.2	15.6	26.3	37.2	51.2	73.0	103.5	140.6	198.6	276.6	368.4
15°	10.2	15.8	27.3	39.2	54.3	77.6	110.0	148.8	211.1	293.6	391.4
12.5°	10.2	15.9	28.2	41.2	57.4	82.0	116.1	157.0	223.7	309.2	413.0
10°	10.2	16.1	29.2	43.1	60.3	86.2	121.8	164.6	236.3	327.7	435.8
7.5°	10.2	16.3	30.1	45.0	63.1	90.1	127.0	171.7	247.9	345.6	463.0
5°	10.2	16.4	30.9	46.8	65.7	93.8	131.9	178.3	258.5	362.1	488.6
2.5°	10.2	16.6	31.7	48.6	68.2	97.2	136.3	184.2	267.9	377.1	512.2
0°	10.2	16.7	32.5	50.2	70.6	100.3	140.3	189.5	276.0	390.2	533.3
-2.5°	10.2	17.3	33.9	52.4	73.9	104.9	146.3	197.2	285.4	401.3	544.2
-5°	10.2	18.0	35.2	54.5	77.0	109.2	151.8	204.2	293.4	410.3	552.3
-7.5°	10.2	18.6	36.5	56.5	79.9	113.1	156.7	210.5	300.0	417.1	557.5
-10°	10.2	19.2	37.7	58.4	82.6	116.7	161.2	215.9	304.9	421.6	560.0
-12.5°	10.2	19.7	38.8	60.1	85.1	119.9	165.0	220.4	308.3	424.0	564.0
-15°	10.2	20.3	39.8	61.7	87.4	122.7	168.2	224.1	310.2	424.7	566.0
-17.5°	10.2	20.8	40.8	63.2	89.5	125.1	170.8	227.3	310.6	422.9	563.6
-20°	10.2	21.3	41.6	64.5	91.3	127.1	173.2	229.9	309.5	418.5	556.6



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 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-VHE

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	10.2	21.8	42.4	65.7	92.9	128.6	175.6	231.8	306.7	411.6	545.5
-25°	10.2	22.2	43.1	66.8	94.2	130.4	177.3	232.8	302.4	402.1	535.8
-27.5°	10.2	22.6	43.7	67.7	95.2	132.1	178.3	232.9	296.4	395.7	528.6
-30°	10.2	22.9	44.2	68.4	96.1	133.4	178.6	232.2	293.9	390.5	517.4
-32.5°	10.2	23.3	44.6	69.0	97.7	134.2	178.3	231.7	293.6	382.7	502.0
-35°	10.2	23.5	44.9	69.4	99.1	134.6	178.3	230.8	292.0	372.2	482.2
-37.5°	10.2	23.8	45.1	69.6	100.1	135.1	178.3	229.4	288.9	359.0	464.3
-40°	10.2	24.0	45.2	69.7	101.0	136.1	177.7	227.0	284.3	351.0	447.1
-42.5°	10.2	24.1	45.2	69.9	101.7	136.8	176.7	223.7	279.8	344.3	426.8
-45°	10.2	24.3	45.1	70.3	102.2	137.1	175.2	220.4	274.8	335.9	405.6
-47.5°	10.2	24.3	44.9	70.4	102.4	137.1	173.0	217.8	268.7	325.6	393.7
-50°	10.2	24.4	44.6	70.5	102.3	136.8	172.2	214.4	260.9	316.3	379.6
-52.5°	10.2	24.4	44.2	70.4	101.8	136.1	171.3	210.3	254.2	305.3	362.7
-55°	10.2	24.3	43.8	70.1	101.0	134.9	169.9	205.7	247.7	292.6	345.6
-57.5°	10.2	24.2	43.2	69.5	99.9	133.3	168.1	203.4	240.3	282.7	327.0
-60°	10.2	24.1	42.5	68.8	98.4	131.2	165.7	200.1	232.9	272.9	309.2
-62.5°	10.2	24.0	41.9	67.9	97.0	128.8	162.6	196.2	228.1	261.5	295.1
-65°	10.2	23.8	41.3	66.8	95.4	126.1	159.1	191.6	222.7	252.7	280.0
-67.5°	10.2	23.5	40.5	65.6	93.4	123.0	155.1	186.2	216.7	244.4	268.4
-70°	10.2	23.2	39.6	64.1	91.3	119.7	150.6	180.2	209.4	235.4	257.9
-72.5°	10.2	22.9	38.6	62.7	88.8	116.0	145.4	173.7	201.5	225.3	246.7
-75°	10.2	22.6	37.5	61.2	86.2	111.9	139.5	166.2	193.1	214.8	234.9
-77.5°	10.2	22.2	36.4	59.6	83.7	107.5	133.2	157.9	183.1	203.5	222.7
-80°	10.2	21.8	35.2	57.8	81.1	103.5	126.5	149.2	172.5	190.6	208.4
-82.5°	10.2	21.4	33.9	55.8	78.3	99.6	121.3	141.1	161.4	177.4	193.2
-85°	10.2	20.9	32.5	53.8	75.3	95.6	116.1	134.3	152.7	166.0	179.3
-87.5°	10.2	20.4	31.1	51.6	72.1	91.3	110.7	127.2	143.8	155.8	167.8
-90°	10.2	9.3	8.4	8.4	8.4	8.4	8.4	7.9	7.4	7.4	7.4



REPORT NUMBER: P731493 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	162.6	169.1	175.2	181.2	188.7	196.1	204.0	211.8	220.2	228.6	236.5
87.5°	7.4	7.0	7.0	7.0	6.6	6.2	5.9	5.6	5.1	4.6	4.5
85°	7.8	7.4	7.5	7.4	7.1	6.8	6.4	6.0	5.6	5.2	5.2
82.5°	8.5	8.4	8.0	7.5	7.3	7.3	7.0	6.5	6.2	5.9	5.8
80°	9.1	9.3	8.6	7.8	7.6	7.4	7.0	6.6	6.5	6.5	6.2
77.5°	9.5	9.4	8.8	8.4	8.0	7.7	7.4	7.1	6.9	6.6	6.5
75°	9.7	9.4	9.1	8.6	8.3	8.3	8.1	7.8	7.6	7.7	7.7
72.5°	10.3	10.0	9.6	8.8	8.6	8.8	8.8	8.6	8.8	9.2	9.1
70°	11.1	10.7	10.1	9.5	9.1	9.4	9.9	10.5	11.3	11.4	12.3
67.5°	12.0	11.6	10.7	10.2	10.0	10.6	11.1	13.5	15.6	16.8	18.2
65°	13.4	12.7	11.8	11.7	11.1	13.4	15.4	17.8	22.2	24.3	24.2
62.5°	15.0	15.1	14.0	14.2	16.1	18.2	21.6	26.6	31.8	33.8	32.0
60°	19.0	18.4	18.5	19.8	21.8	24.2	29.4	35.7	41.7	44.9	40.1
57.5°	24.3	24.1	25.5	26.4	29.1	29.9	36.8	44.6	49.8	53.6	47.3
55°	31.8	32.1	34.8	35.7	37.7	37.6	43.6	50.9	56.1	57.9	51.3
52.5°	42.2	42.7	47.6	48.3	47.7	48.3	50.5	58.4	62.7	62.9	57.1
50°	53.6	59.6	62.6	64.7	61.1	63.3	61.3	70.0	76.6	76.0	78.1
47.5°	70.6	78.5	83.0	86.2	83.6	90.5	89.0	102.5	107.0	132.6	136.6
45°	90.7	103.4	109.3	116.6	124.6	132.9	154.5	154.6	215.0	238.7	301.4
42.5°	113.2	132.3	148.7	151.7	191.7	215.0	244.5	305.0	363.9	438.0	466.2
40°	143.1	164.3	197.7	235.6	280.0	330.7	385.6	459.0	536.4	574.8	579.6
37.5°	176.2	216.1	262.7	331.3	399.6	466.1	535.7	607.5	663.3	677.5	729.5
35°	211.7	270.2	357.3	436.0	515.4	607.5	669.4	735.5	768.9	827.7	927.7
32.5°	256.4	325.7	434.0	536.4	624.7	724.9	784.1	834.8	913.4	1015.1	1236.2
30°	303.2	388.5	498.0	616.2	724.9	808.9	876.3	939.9	1063.1	1308.8	2066.8
27.5°	342.1	442.3	557.5	689.2	813.3	889.9	966.4	1077.4	1297.5	1803.9	3241.4
25°	376.9	485.8	615.8	768.8	890.2	974.6	1074.1	1230.9	1576.2	2950.5	4792.7
22.5°	411.0	528.7	682.4	852.3	968.3	1057.8	1208.5	1491.6	2215.2	4147.4	6361.4
20°	446.1	583.4	754.6	930.0	1043.0	1131.6	1326.0	1744.9	3226.1	5435.8	7745.6
17.5°	483.0	638.6	825.0	985.2	1090.9	1208.9	1449.9	1952.6	4069.9	6639.1	9224.7
15°	519.0	691.6	885.2	1032.9	1134.8	1292.3	1616.2	2565.3	4962.2	7982.7	10806.1
12.5°	553.4	739.8	931.8	1070.3	1178.1	1370.1	1752.8	3240.2	6035.1	9230.2	12181.0
10°	586.0	782.9	971.1	1105.6	1225.2	1453.1	1884.4	3901.0	6974.3	10041.0	13029.5
7.5°	619.4	818.8	1004.3	1139.3	1270.6	1531.2	2029.3	4414.3	7675.6	10664.6	13685.2
5°	649.6	846.4	1036.2	1177.0	1317.3	1600.6	2146.4	4806.7	8201.8	11179.9	14269.1
2.5°	676.0	868.2	1063.3	1212.5	1362.9	1658.7	2180.2	4915.8	8449.0	11457.1	14843.4
0°	698.7	884.6	1085.3	1244.1	1404.0	1705.9	2189.1	4896.7	8510.2	11541.1	15402.7
-2.5°	711.6	905.7	1124.6	1289.4	1440.7	1744.0	2235.4	4903.9	8561.9	12129.4	16121.9
-5°	720.6	921.6	1156.8	1329.7	1473.3	1770.8	2261.2	4792.5	8492.0	12439.0	16332.1
-7.5°	725.6	931.6	1180.5	1363.1	1502.8	1790.2	2275.8	4611.2	8495.9	12453.1	16067.7
-10°	728.3	941.1	1191.6	1381.9	1528.1	1799.6	2268.8	4299.9	8158.6	12116.0	15632.1
-12.5°	737.1	949.8	1195.5	1395.8	1548.4	1801.8	2279.1	3995.2	7526.0	11502.4	15009.5
-15°	740.5	952.1	1193.4	1407.2	1581.1	1823.8	2279.5	3521.9	6704.7	10723.7	14226.5
-17.5°	738.2	947.8	1186.6	1423.8	1611.2	1825.5	2227.7	2901.1	5766.6	9615.9	13195.5
-20°	730.1	938.0	1171.7	1432.0	1628.5	1840.6	2212.5	2800.3	4847.2	8230.9	11943.7



REPORT NUMBER: P731493 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	718.5	922.8	1150.5	1413.9	1648.1	1873.8	2191.8	2666.3	3766.1	6648.8	10394.0
-25°	704.5	905.9	1127.7	1393.1	1657.3	1895.0	2127.5	2487.3	3131.4	5295.0	8475.9
-27.5°	690.0	882.0	1103.4	1358.6	1651.8	1884.8	2089.7	2388.1	2843.2	3791.0	6477.4
-30°	671.5	853.4	1067.7	1313.9	1602.9	1853.7	2066.6	2259.7	2570.6	3140.1	4752.7
-32.5°	648.9	819.7	1027.9	1262.9	1529.1	1816.5	2013.3	2181.1	2417.9	2766.9	3428.5
-35°	623.4	790.0	983.7	1198.6	1441.7	1722.9	1933.2	2110.7	2270.6	2539.2	2962.3
-37.5°	597.4	753.3	926.8	1130.5	1362.0	1591.6	1839.7	2016.7	2177.8	2346.4	2647.7
-40°	567.1	707.7	870.2	1058.6	1254.9	1463.2	1693.4	1915.0	2074.2	2249.9	2430.6
-42.5°	533.8	664.4	809.6	973.0	1149.2	1336.4	1540.7	1762.8	1976.1	2144.1	2310.2
-45°	507.0	617.7	745.1	890.6	1042.3	1208.9	1395.2	1589.7	1816.2	2033.7	2187.4
-47.5°	474.6	571.1	688.6	804.0	941.2	1089.9	1249.0	1433.2	1623.2	1837.4	2047.5
-50°	443.6	532.1	622.5	726.5	843.0	973.6	1115.5	1277.7	1453.4	1628.9	1819.4
-52.5°	422.4	490.1	567.1	649.1	750.9	862.9	988.6	1126.3	1280.3	1433.7	1598.9
-55°	399.1	457.7	513.0	582.5	662.5	759.7	868.8	989.1	1106.6	1246.6	1386.9
-57.5°	376.4	425.0	469.4	522.7	589.5	660.9	760.1	860.2	962.2	1070.6	1189.2
-60°	353.3	393.1	432.0	475.1	523.8	587.0	656.0	739.7	823.0	909.6	1014.6
-62.5°	330.3	362.7	396.0	433.2	474.7	517.3	573.7	634.7	693.1	772.0	855.6
-65°	311.8	334.1	361.7	394.4	427.8	466.8	506.1	544.3	595.6	655.4	716.0
-67.5°	291.9	312.8	333.1	356.1	386.3	418.5	450.9	485.2	520.0	561.1	605.3
-70°	277.4	292.2	310.2	329.2	349.1	372.4	401.3	429.7	459.0	493.3	528.5
-72.5°	263.7	277.3	290.8	304.1	322.0	341.3	360.4	379.5	403.8	433.0	461.1
-75°	249.7	262.2	274.5	286.6	300.1	314.5	329.4	346.7	365.6	385.9	405.4
-77.5°	235.4	246.4	257.7	268.8	281.1	293.9	307.0	320.1	335.0	350.7	365.9
-80°	220.0	230.4	240.4	250.3	261.4	272.8	284.5	296.2	309.4	323.0	335.6
-82.5°	203.1	212.3	221.6	230.9	241.1	251.3	261.7	272.0	283.6	295.4	306.2
-85°	186.9	194.0	202.2	210.4	219.8	229.1	238.3	247.5	258.2	268.8	278.1
-87.5°	174.8	181.6	188.3	195.0	203.0	210.9	218.9	226.9	236.2	245.6	253.7
-90°	7.0	6.5	6.5	6.5	6.1	5.6	5.6	5.6	5.1	4.6	4.2



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	244.4	249.5	254.6	258.8	263.0	268.6	274.1	281.6	289.0	296.4	303.8
87.5°	4.4	4.1	3.7	3.6	3.6	3.6	3.6	3.2	2.8	2.8	2.8
85°	5.2	5.2	5.1	4.8	4.4	4.5	4.5	4.5	4.5	4.1	3.7
82.5°	5.6	5.6	5.6	5.1	4.6	4.6	4.6	4.6	4.6	4.2	3.7
80°	5.9	5.8	5.6	5.4	5.2	5.0	4.6	4.3	3.9	3.7	3.7
77.5°	6.6	6.3	6.0	5.8	5.7	5.2	4.7	4.2	3.8	3.7	3.7
75°	7.5	7.2	7.0	6.7	6.2	5.9	5.8	5.6	5.3	5.3	5.4
72.5°	9.0	8.8	8.9	9.1	9.0	9.3	9.8	10.1	10.5	11.3	12.1
70°	13.4	14.3	14.7	15.0	14.9	14.8	14.7	14.9	15.4	15.9	16.2
67.5°	19.6	21.0	21.8	22.1	20.7	19.9	20.0	20.4	21.1	22.4	24.3
65°	25.6	25.2	24.4	24.0	24.2	24.3	24.1	24.4	25.7	27.6	30.0
62.5°	30.0	26.0	23.6	22.4	23.2	24.6	23.6	22.9	23.9	25.1	26.3
60°	34.3	26.8	21.4	19.8	19.5	20.1	18.4	17.0	17.4	17.9	18.5
57.5°	38.4	28.7	19.9	16.9	14.2	12.8	12.4	11.9	11.6	11.3	11.4
55°	42.0	31.2	19.5	17.3	15.4	14.9	13.7	13.0	12.5	12.2	12.5
52.5°	46.6	40.2	32.0	29.7	33.5	33.8	29.9	35.5	39.8	41.7	42.5
50°	76.2	68.3	81.9	80.6	96.7	108.0	103.9	116.6	135.4	147.2	152.1
47.5°	167.4	167.7	194.7	218.7	238.6	264.5	284.4	303.6	330.4	347.0	354.5
45°	317.7	344.7	372.9	414.1	453.5	501.5	559.3	604.7	787.0	968.5	1133.6
42.5°	486.3	516.0	557.3	646.9	753.2	999.6	1440.1	1686.0	1992.8	2326.9	2455.1
40°	626.6	669.7	783.2	1035.4	1649.4	2234.1	2876.5	3419.6	3900.3	4177.0	4408.1
37.5°	799.9	902.8	1419.7	2133.4	2896.9	3629.7	4291.2	4865.2	5363.3	5767.4	6167.4
35°	1052.6	1735.3	2498.9	3426.9	4238.5	4917.4	5602.8	6260.5	6825.5	7429.0	8325.8
32.5°	1995.3	2887.6	3870.0	4701.8	5495.0	6351.6	7071.7	8124.1	8948.3	10048.6	11730.2
30°	3202.6	4322.6	5213.3	6045.3	7062.4	8215.0	9417.6	11027.2	12709.1	14463.7	16269.4
27.5°	4752.8	5883.9	6823.0	7932.8	9275.8	10809.7	13108.7	15377.5	17789.7	19983.8	21651.4
25°	6621.2	7819.2	9424.3	11034.6	12956.5	15577.8	18160.8	20940.6	23359.1	25512.3	27922.6
22.5°	8372.4	10336.1	12455.7	14886.7	18016.4	20972.9	24166.4	26979.6	30014.6	33083.5	35457.0
20°	9850.8	12408.9	15449.5	18954.0	22423.2	25772.2	29488.6	33972.7	38491.1	42527.7	45457.0
17.5°	11845.0	15084.8	18869.6	23035.1	26769.9	30920.3	36092.6	41919.0	48250.2	53852.1	58293.9
15°	14023.9	17807.2	22086.7	26451.3	31176.4	36737.7	43388.6	50829.4	58573.8	66428.9	73747.0
12.5°	15505.2	19937.6	24610.9	29800.5	35694.1	43150.6	51226.6	59475.1	68325.3	78098.9	86587.9
10°	16771.7	21688.9	27326.9	33363.5	40135.6	48151.0	56497.9	66516.8	77563.8	87188.5	96281.1
7.5°	18024.2	23802.3	29691.7	35977.0	43417.4	52123.3	62001.8	72776.9	84019.3	94480.6	101916.2
5°	19506.3	25500.9	31389.9	38029.3	45821.0	54876.7	65296.4	77669.7	89514.8	99130.9	105837.5
2.5°	20731.8	26519.8	32549.9	39121.3	47129.2	56584.2	67892.9	81643.3	93797.6	102788.9	108857.5
0°	21355.8	27172.4	33279.8	39957.7	48166.8	57814.3	70152.6	84597.4	96084.6	104390.8	110889.8
-2.5°	21431.9	26965.0	32959.7	39546.1	47569.3	57408.1	70056.9	84672.3	96679.8	105313.0	111725.1
-5°	21210.4	26691.6	32675.0	39265.3	47180.0	57428.4	70128.6	84182.4	95785.2	104727.5	110766.2
-7.5°	20676.2	26189.7	32184.2	38677.4	46467.7	56407.1	68252.3	80991.2	92925.7	102587.8	108158.5
-10°	19893.7	25311.0	31213.0	37428.9	44775.6	53965.2	64558.6	76221.1	88281.1	97519.4	103943.6
-12.5°	18903.9	24031.0	29672.9	35549.5	42485.7	51047.4	60490.3	70255.9	80365.4	90897.7	97588.9
-15°	17767.6	22452.6	27733.7	33641.9	40499.5	47634.7	55135.5	63091.7	72333.5	80948.5	88737.2
-17.5°	16689.5	20724.4	25652.0	31408.4	37247.9	43447.6	49876.0	56371.8	63782.7	70545.3	76595.1
-20°	15334.5	18770.1	23310.3	28425.1	33851.3	39223.3	44744.9	50007.6	55387.7	60892.1	65696.9



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	13737.4	17078.6	20866.6	25320.0	30529.4	35310.5	39732.9	43845.6	48158.0	51966.8	55920.9
-25°	11997.6	15210.1	18691.2	22751.0	26750.7	31085.1	34755.5	38253.1	41598.0	44588.7	47663.4
-27.5°	9861.1	13252.6	16683.9	19933.2	23233.7	26345.8	29768.0	32995.0	35784.6	38251.8	40688.7
-30°	7454.2	11053.9	14299.8	17087.1	19703.7	22299.4	24919.3	27627.1	30267.9	32514.6	34510.6
-32.5°	5499.9	8502.8	11503.0	14234.4	16524.6	18669.9	20707.3	22831.8	24678.8	26575.4	28421.2
-35°	3638.8	5761.3	8251.9	11028.7	13413.9	15218.6	17066.0	18759.8	20152.2	21622.6	23016.0
-37.5°	3062.4	3627.2	5293.4	7547.8	9756.8	11832.2	13674.5	15147.0	16428.5	17603.0	18806.5
-40°	2701.4	3023.5	3497.6	4316.7	6174.5	8000.2	9898.3	11463.5	12828.7	13954.5	15062.6
-42.5°	2464.4	2685.5	2921.6	3244.2	3562.2	4456.4	6014.4	7365.5	8645.9	9914.3	11055.9
-45°	2341.7	2465.7	2600.8	2776.2	2912.2	3154.6	3425.2	3679.4	4698.5	5799.8	6721.6
-47.5°	2194.4	2326.7	2427.7	2510.3	2576.4	2682.9	2795.4	2942.5	3178.4	3456.5	3668.9
-50°	2006.1	2166.7	2267.5	2350.3	2397.8	2439.0	2479.5	2571.7	2699.5	2851.2	2971.5
-52.5°	1762.8	1921.7	2064.3	2172.0	2224.5	2275.7	2326.7	2390.0	2462.7	2550.3	2613.2
-55°	1533.4	1666.2	1789.6	1890.1	1980.6	2063.1	2142.5	2209.5	2288.0	2371.3	2429.9
-57.5°	1315.7	1422.9	1524.2	1611.2	1689.6	1758.9	1840.1	1928.2	2028.5	2124.1	2191.3
-60°	1112.3	1197.5	1281.7	1352.4	1416.2	1473.0	1548.0	1622.0	1709.9	1788.2	1845.2
-62.5°	930.3	1004.8	1067.0	1120.3	1168.4	1216.0	1279.1	1340.9	1413.2	1475.8	1523.1
-65°	772.9	835.1	878.9	918.5	953.3	993.9	1042.7	1092.2	1149.1	1197.7	1236.5
-67.5°	651.6	693.7	721.2	745.7	774.6	806.9	843.7	883.3	927.5	964.2	994.0
-70°	559.9	586.1	602.8	621.1	642.2	664.5	689.5	719.2	752.9	781.6	806.3
-72.5°	487.3	507.3	521.1	535.2	547.9	563.2	580.0	602.3	627.2	649.6	670.4
-75°	424.3	438.7	451.5	463.8	474.8	487.8	501.2	520.0	540.4	558.8	576.2
-77.5°	382.0	393.1	401.7	409.9	417.9	428.7	439.7	454.9	470.7	486.0	500.8
-80°	348.1	356.7	364.0	370.0	375.5	384.6	394.1	406.5	419.2	432.3	445.4
-82.5°	316.7	324.2	331.2	336.9	342.2	350.5	358.9	370.0	381.1	392.1	402.9
-85°	287.3	294.2	300.7	306.2	311.6	318.2	324.8	334.4	344.1	354.0	364.0
-87.5°	261.8	268.2	274.6	278.9	283.2	289.1	295.0	303.2	311.4	319.9	328.5
-90°	3.7	3.7	3.7	3.3	2.8	2.8	2.8	2.4	1.9	1.9	1.9



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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°	307.6	311.3	313.2	315.0	313.2	311.3	307.6	303.8	296.4	289.0	281.6
87.5°	2.3	1.9	1.9	1.9	1.9	1.9	2.3	2.8	2.8	2.8	3.2
85°	3.2	2.8	3.2	3.7	3.2	2.8	3.2	3.7	4.1	4.5	4.5
82.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.2	4.6	4.6
80°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.9	4.3
77.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.8	4.2
75°	5.1	4.6	4.6	4.6	4.6	4.6	5.1	5.4	5.3	5.3	5.6
72.5°	12.5	12.8	13.4	13.9	13.4	12.8	12.5	12.1	11.3	10.5	10.1
70°	16.4	16.6	16.7	16.7	16.7	16.6	16.4	16.2	15.9	15.4	14.9
67.5°	25.2	25.7	26.8	27.9	26.8	25.7	25.2	24.3	22.4	21.1	20.4
65°	31.7	32.9	33.3	33.4	33.3	32.9	31.7	30.0	27.6	25.7	24.4
62.5°	27.4	28.7	28.9	28.8	28.9	28.7	27.4	26.3	25.1	23.9	22.9
60°	19.2	19.7	20.0	20.4	20.0	19.7	19.2	18.5	17.9	17.4	17.0
57.5°	11.6	12.2	12.2	12.1	12.2	12.2	11.6	11.4	11.3	11.6	11.9
55°	12.7	12.9	12.6	12.1	12.6	12.9	12.7	12.5	12.2	12.5	13.0
52.5°	41.4	39.3	37.2	35.3	37.2	39.3	41.4	42.5	41.7	39.8	35.5
50°	150.5	148.0	144.4	140.3	144.4	148.0	150.5	152.1	147.2	135.4	116.6
47.5°	361.3	362.0	358.5	352.2	358.5	362.0	361.3	354.5	347.0	330.4	303.6
45°	1277.5	1347.0	1384.4	1410.5	1384.4	1347.0	1277.5	1133.6	968.5	787.0	604.7
42.5°	2567.2	2664.7	2738.8	2754.0	2738.8	2664.7	2567.2	2455.1	2326.9	1992.8	1686.0
40°	4682.2	4698.5	4426.8	4016.8	4426.8	4698.5	4682.2	4408.1	4177.0	3900.3	3419.6
37.5°	6644.0	7329.6	8126.0	8532.5	8126.0	7329.6	6644.0	6167.4	5767.4	5363.3	4865.2
35°	9535.8	10567.0	10901.5	10910.2	10901.5	10567.0	9535.8	8325.8	7429.0	6825.5	6260.5
32.5°	13246.7	14085.2	14532.8	14411.3	14532.8	14085.2	13246.7	11730.2	10048.6	8948.3	8124.1
30°	17321.6	18051.1	18056.9	17813.0	18056.9	18051.1	17321.6	16269.4	14463.7	12709.1	11027.2
27.5°	23377.4	24918.9	26003.9	26296.2	26003.9	24918.9	23377.4	21651.4	19983.8	17789.7	15377.5
25°	30094.4	31788.3	32829.8	33209.2	32829.8	31788.3	30094.4	27922.6	25512.3	23359.1	20940.6
22.5°	37666.0	39312.9	40064.5	40457.5	40064.5	39312.9	37666.0	35457.0	33083.5	30014.6	26979.6
20°	48249.3	50590.9	51473.6	51850.9	51473.6	50590.9	48249.3	45457.0	42527.7	38491.1	33972.7
17.5°	62909.1	67533.9	70425.5	71910.6	70425.5	67533.9	62909.1	58293.9	53852.1	48250.2	41919.0
15°	79163.0	83858.1	86945.7	88797.2	86945.7	83858.1	79163.0	73747.0	66428.9	58573.8	50829.4
12.5°	93106.9	97292.3	100274.6	102047.5	100274.6	97292.3	93106.9	86587.9	78098.9	68325.3	59475.1
10°	102052.4	105641.7	108735.8	110246.9	108735.8	105641.7	102052.4	96281.1	87188.5	77563.8	66516.8
7.5°	107108.1	111281.6	112958.8	113992.3	112958.8	111281.6	107108.1	101916.2	94480.6	84019.3	72776.9
5°	111026.3	114324.5	115872.8	116628.3	115872.8	114324.5	111026.3	105837.5	99130.9	89514.8	77669.7
2.5°	113642.0	116505.3	117600.2	118209.8	117600.2	116505.3	113642.0	108857.5	102788.9	93797.6	81643.3
0°	114897.3	117008.4	118235.8	117637.4	118235.8	117008.4	114897.3	110889.8	104390.8	96084.6	84597.4
-2.5°	114906.0	116912.7	117825.1	117381.0	117825.1	116912.7	114906.0	111725.1	105313.0	96679.8	84672.3
-5°	113923.0	115420.5	116531.9	116175.8	116531.9	115420.5	113923.0	110766.2	104727.5	95785.2	84182.4
-7.5°	111271.9	113262.3	114076.3	114115.9	114076.3	113262.3	111271.9	108158.5	102587.8	92925.7	80991.2
-10°	107624.9	109831.6	110698.2	110786.7	110698.2	109831.6	107624.9	103943.6	97519.4	88281.1	76221.1
-12.5°	102204.5	104793.1	106040.4	106262.6	106040.4	104793.1	102204.5	97588.9	90897.7	80365.4	70255.9
-15°	93790.1	97279.2	99248.6	99939.7	99248.6	97279.2	93790.1	88737.2	80948.5	72333.5	63091.7
-17.5°	82351.0	86519.8	88975.6	89841.5	88975.6	86519.8	82351.0	76595.1	70545.3	63782.7	56371.8
-20°	70419.1	73509.6	75402.8	76182.9	75402.8	73509.6	70419.1	65696.9	60892.1	55387.7	50007.6



REPORT NUMBER: P731493 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	59565.8	62057.5	63464.1	64088.9	63464.1	62057.5	59565.8	55920.9	51966.8	48158.0	43845.6
-25°	50152.6	52251.3	52972.6	53379.4	52972.6	52251.3	50152.6	47663.4	44588.7	41598.0	38253.1
-27.5°	42461.4	44126.3	44514.8	44873.9	44514.8	44126.3	42461.4	40688.7	38251.8	35784.6	32995.0
-30°	35980.6	37429.4	37627.5	38025.0	37627.5	37429.4	35980.6	34510.6	32514.6	30267.9	27627.1
-32.5°	29919.9	31209.9	31704.1	31780.1	31704.1	31209.9	29919.9	28421.2	26575.4	24678.8	22831.8
-35°	24116.2	24966.4	25302.9	25323.4	25302.9	24966.4	24116.2	23016.0	21622.6	20152.2	18759.8
-37.5°	19553.1	20095.1	20484.8	20377.4	20484.8	20095.1	19553.1	18806.5	17603.0	16428.5	15147.0
-40°	15683.5	16228.8	16584.9	16498.2	16584.9	16228.8	15683.5	15062.6	13954.5	12828.7	11463.5
-42.5°	11685.6	12285.3	12621.9	12528.8	12621.9	12285.3	11685.6	11055.9	9914.3	8645.9	7365.5
-45°	7247.2	7775.8	8023.8	7872.8	8023.8	7775.8	7247.2	6721.6	5799.8	4698.5	3679.4
-47.5°	3780.8	3901.2	3939.6	3885.8	3939.6	3901.2	3780.8	3668.9	3456.5	3178.4	2942.5
-50°	3065.4	3140.9	3173.4	3163.8	3173.4	3140.9	3065.4	2971.5	2851.2	2699.5	2571.7
-52.5°	2662.5	2697.4	2708.9	2702.0	2708.9	2697.4	2662.5	2613.2	2550.3	2462.7	2390.0
-55°	2479.3	2514.0	2525.9	2521.7	2525.9	2514.0	2479.3	2429.9	2371.3	2288.0	2209.5
-57.5°	2247.0	2289.5	2315.9	2329.4	2315.9	2289.5	2247.0	2191.3	2124.1	2028.5	1928.2
-60°	1891.1	1925.1	1934.9	1929.9	1934.9	1925.1	1891.1	1845.2	1788.2	1709.9	1622.0
-62.5°	1560.3	1588.3	1609.1	1623.2	1609.1	1588.3	1560.3	1523.1	1475.8	1413.2	1340.9
-65°	1265.0	1285.2	1289.5	1286.0	1289.5	1285.2	1265.0	1236.5	1197.7	1149.1	1092.2
-67.5°	1014.9	1029.9	1031.9	1028.6	1031.9	1029.9	1014.9	994.0	964.2	927.5	883.3
-70°	822.8	835.4	837.2	835.3	837.2	835.4	822.8	806.3	781.6	752.9	719.2
-72.5°	682.5	691.7	698.7	704.3	698.7	691.7	682.5	670.4	649.6	627.2	602.3
-75°	585.0	591.6	593.3	593.7	593.3	591.6	585.0	576.2	558.8	540.4	520.0
-77.5°	508.6	515.2	519.9	524.0	519.9	515.2	508.6	500.8	486.0	470.7	454.9
-80°	451.3	456.3	460.2	463.7	460.2	456.3	451.3	445.4	432.3	419.2	406.5
-82.5°	408.6	413.8	417.1	420.0	417.1	413.8	408.6	402.9	392.1	381.1	370.0
-85°	368.2	372.3	375.3	378.2	375.3	372.3	368.2	364.0	354.0	344.1	334.4
-87.5°	332.4	336.3	338.2	340.1	338.2	336.3	332.4	328.5	319.9	311.4	303.2
-90°	1.4	0.9	0.9	0.9	0.9	0.9	1.4	1.9	1.9	1.9	2.4



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	274.1	268.6	263.0	258.8	254.6	249.5	244.4	236.5	228.6	220.2	211.8
87.5°	3.6	3.6	3.6	3.6	3.7	4.1	4.4	4.5	4.6	5.1	5.6
85°	4.5	4.5	4.4	4.8	5.1	5.2	5.2	5.2	5.2	5.6	6.0
82.5°	4.6	4.6	4.6	5.1	5.6	5.6	5.6	5.8	5.9	6.2	6.5
80°	4.6	5.0	5.2	5.4	5.6	5.8	5.9	6.2	6.5	6.5	6.6
77.5°	4.7	5.2	5.7	5.8	6.0	6.3	6.6	6.5	6.6	6.9	7.1
75°	5.8	5.9	6.2	6.7	7.0	7.2	7.5	7.7	7.7	7.6	7.8
72.5°	9.8	9.3	9.0	9.1	8.9	8.8	9.0	9.1	9.2	8.8	8.6
70°	14.7	14.8	14.9	15.0	14.7	14.3	13.4	12.3	11.4	11.3	10.5
67.5°	20.0	19.9	20.7	22.1	21.8	21.0	19.6	18.2	16.8	15.6	13.5
65°	24.1	24.3	24.2	24.0	24.4	25.2	25.6	24.2	24.3	22.2	17.8
62.5°	23.6	24.6	23.2	22.4	23.6	26.0	30.0	32.0	33.8	31.8	26.6
60°	18.4	20.1	19.5	19.8	21.4	26.8	34.3	40.1	44.9	41.7	35.7
57.5°	12.4	12.8	14.2	16.9	19.9	28.7	38.4	47.3	53.6	49.8	44.6
55°	13.7	14.9	15.4	17.3	19.5	31.2	42.0	51.3	57.9	56.1	50.9
52.5°	29.9	33.8	33.5	29.7	32.0	40.2	46.6	57.1	62.9	62.7	58.4
50°	103.9	108.0	96.7	80.6	81.9	68.3	76.2	78.1	76.0	76.6	70.0
47.5°	284.4	264.5	238.6	218.7	194.7	167.7	167.4	136.6	132.6	107.0	102.5
45°	559.3	501.5	453.5	414.1	372.9	344.7	317.7	301.4	238.7	215.0	154.6
42.5°	1440.1	999.6	753.2	646.9	557.3	516.0	486.3	466.2	438.0	363.9	305.0
40°	2876.5	2234.1	1649.4	1035.4	783.2	669.7	626.6	579.6	574.8	536.4	459.0
37.5°	4291.2	3629.7	2896.9	2133.4	1419.7	902.8	799.9	729.5	677.5	663.3	607.5
35°	5602.8	4917.4	4238.5	3426.9	2498.9	1735.3	1052.6	927.7	827.7	768.9	735.5
32.5°	7071.7	6351.6	5495.0	4701.8	3870.0	2887.6	1995.3	1236.2	1015.1	913.4	834.8
30°	9417.6	8215.0	7062.4	6045.3	5213.3	4322.6	3202.6	2066.8	1308.8	1063.1	939.9
27.5°	13108.7	10809.7	9275.8	7932.8	6823.0	5883.9	4752.8	3241.4	1803.9	1297.5	1077.4
25°	18160.8	15577.8	12956.5	11034.6	9424.3	7819.2	6621.2	4792.7	2950.5	1576.2	1230.9
22.5°	24166.4	20972.9	18016.4	14886.7	12455.7	10336.1	8372.4	6361.4	4147.4	2215.2	1491.6
20°	29488.6	25772.2	22423.2	18954.0	15449.5	12408.9	9850.8	7745.6	5435.8	3226.1	1744.9
17.5°	36092.6	30920.3	26769.9	23035.1	18869.6	15084.8	11845.0	9224.7	6639.1	4069.9	1952.6
15°	43388.6	36737.7	31176.4	26451.3	22086.7	17807.2	14023.9	10806.1	7982.7	4962.2	2565.3
12.5°	51226.6	43150.6	35694.1	29800.5	24610.9	19937.6	15505.2	12181.0	9230.2	6035.1	3240.2
10°	56497.9	48151.0	40135.6	33363.5	27326.9	21688.9	16771.7	13029.5	10041.0	6974.3	3901.0
7.5°	62001.8	52123.3	43417.4	35977.0	29691.7	23802.3	18024.2	13685.2	10664.6	7675.6	4414.3
5°	65296.4	54876.7	45821.0	38029.3	31389.9	25500.9	19506.3	14269.1	11179.9	8201.8	4806.7
2.5°	67892.9	56584.2	47129.2	39121.3	32549.9	26519.8	20731.8	14843.4	11457.1	8449.0	4915.8
0°	70152.6	57814.3	48166.8	39957.7	33279.8	27172.4	21355.8	15402.7	11541.1	8510.2	4896.7
-2.5°	70056.9	57408.1	47569.3	39546.1	32959.7	26965.0	21431.9	16121.9	12129.4	8561.9	4903.9
-5°	70128.6	57428.4	47180.0	39265.3	32675.0	26691.6	21210.4	16332.1	12439.0	8492.0	4792.5
-7.5°	68252.3	56407.1	46467.7	38677.4	32184.2	26189.7	20676.2	16067.7	12453.1	8495.9	4611.2
-10°	64558.6	53965.2	44775.6	37428.9	31213.0	25311.0	19893.7	15632.1	12116.0	8158.6	4299.9
-12.5°	60490.3	51047.4	42485.7	35549.5	29672.9	24031.0	18903.9	15009.5	11502.4	7526.0	3995.2
-15°	55135.5	47634.7	40499.5	33641.9	27733.7	22452.6	17767.6	14226.5	10723.7	6704.7	3521.9
-17.5°	49876.0	43447.6	37247.9	31408.4	25652.0	20724.4	16689.5	13195.5	9615.9	5766.6	2901.1
-20°	44744.9	39223.3	33851.3	28425.1	23310.3	18770.1	15334.5	11943.7	8230.9	4847.2	2800.3



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 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-VHE

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	39732.9	35310.5	30529.4	25320.0	20866.6	17078.6	13737.4	10394.0	6648.8	3766.1	2666.3
-25°	34755.5	31085.1	26750.7	22751.0	18691.2	15210.1	11997.6	8475.9	5295.0	3131.4	2487.3
-27.5°	29768.0	26345.8	23233.7	19933.2	16683.9	13252.6	9861.1	6477.4	3791.0	2843.2	2388.1
-30°	24919.3	22299.4	19703.7	17087.1	14299.8	11053.9	7454.2	4752.7	3140.1	2570.6	2259.7
-32.5°	20707.3	18669.9	16524.6	14234.4	11503.0	8502.8	5499.9	3428.5	2766.9	2417.9	2181.1
-35°	17066.0	15218.6	13413.9	11028.7	8251.9	5761.3	3638.8	2962.3	2539.2	2270.6	2110.7
-37.5°	13674.5	11832.2	9756.8	7547.8	5293.4	3627.2	3062.4	2647.7	2346.4	2177.8	2016.7
-40°	9898.3	8000.2	6174.5	4316.7	3497.6	3023.5	2701.4	2430.6	2249.9	2074.2	1915.0
-42.5°	6014.4	4456.4	3562.2	3244.2	2921.6	2685.5	2464.4	2310.2	2144.1	1976.1	1762.8
-45°	3425.2	3154.6	2912.2	2776.2	2600.8	2465.7	2341.7	2187.4	2033.7	1816.2	1589.7
-47.5°	2795.4	2682.9	2576.4	2510.3	2427.7	2326.7	2194.4	2047.5	1837.4	1623.2	1433.2
-50°	2479.5	2439.0	2397.8	2350.3	2267.5	2166.7	2006.1	1819.4	1628.9	1453.4	1277.7
-52.5°	2326.7	2275.7	2224.5	2172.0	2064.3	1921.7	1762.8	1598.9	1433.7	1280.3	1126.3
-55°	2142.5	2063.1	1980.6	1890.1	1789.6	1666.2	1533.4	1386.9	1246.6	1106.6	989.1
-57.5°	1840.1	1758.9	1689.6	1611.2	1524.2	1422.9	1315.7	1189.2	1070.6	962.2	860.2
-60°	1548.0	1473.0	1416.2	1352.4	1281.7	1197.5	1112.3	1014.6	909.6	823.0	739.7
-62.5°	1279.1	1216.0	1168.4	1120.3	1067.0	1004.8	930.3	855.6	772.0	693.1	634.7
-65°	1042.7	993.9	953.3	918.5	878.9	835.1	772.9	716.0	655.4	595.6	544.3
-67.5°	843.7	806.9	774.6	745.7	721.2	693.7	651.6	605.3	561.1	520.0	485.2
-70°	689.5	664.5	642.2	621.1	602.8	586.1	559.9	528.5	493.3	459.0	429.7
-72.5°	580.0	563.2	547.9	535.2	521.1	507.3	487.3	461.1	433.0	403.8	379.5
-75°	501.2	487.8	474.8	463.8	451.5	438.7	424.3	405.4	385.9	365.6	346.7
-77.5°	439.7	428.7	417.9	409.9	401.7	393.1	382.0	365.9	350.7	335.0	320.1
-80°	394.1	384.6	375.5	370.0	364.0	356.7	348.1	335.6	323.0	309.4	296.2
-82.5°	358.9	350.5	342.2	336.9	331.2	324.2	316.7	306.2	295.4	283.6	272.0
-85°	324.8	318.2	311.6	306.2	300.7	294.2	287.3	278.1	268.8	258.2	247.5
-87.5°	295.0	289.1	283.2	278.9	274.6	268.2	261.8	253.7	245.6	236.2	226.9
-90°	2.8	2.8	2.8	3.3	3.7	3.7	3.7	4.2	4.6	5.1	5.6



REPORT NUMBER: P731493 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	204.0	196.1	188.7	181.2	175.2	169.1	162.6	156.1	145.4	134.7	119.9
87.5°	5.9	6.2	6.6	7.0	7.0	7.0	7.4	7.8	8.0	8.1	8.5
85°	6.4	6.8	7.1	7.4	7.5	7.4	7.8	8.3	8.5	8.7	9.0
82.5°	7.0	7.3	7.3	7.5	8.0	8.4	8.5	8.7	9.1	9.4	9.6
80°	7.0	7.4	7.6	7.8	8.6	9.3	9.1	9.1	9.6	10.0	10.2
77.5°	7.4	7.7	8.0	8.4	8.8	9.4	9.5	9.6	10.2	10.6	10.7
75°	8.1	8.3	8.3	8.6	9.1	9.4	9.7	10.0	10.7	11.3	11.3
72.5°	8.8	8.8	8.6	8.8	9.6	10.0	10.3	10.5	11.2	11.7	11.9
70°	9.9	9.4	9.1	9.5	10.1	10.7	11.1	11.4	11.6	12.3	12.6
67.5°	11.1	10.6	10.0	10.2	10.7	11.6	12.0	12.4	12.7	12.9	13.4
65°	15.4	13.4	11.1	11.7	11.8	12.7	13.4	13.8	13.8	14.2	14.2
62.5°	21.6	18.2	16.1	14.2	14.0	15.1	15.0	16.1	15.3	15.5	15.4
60°	29.4	24.2	21.8	19.8	18.5	18.4	19.0	18.7	18.4	17.0	16.8
57.5°	36.8	29.9	29.1	26.4	25.5	24.1	24.3	23.8	22.3	20.9	18.4
55°	43.6	37.6	37.7	35.7	34.8	32.1	31.8	30.6	27.7	25.9	20.3
52.5°	50.5	48.3	47.7	48.3	47.6	42.7	42.2	38.3	36.1	31.5	25.5
50°	61.3	63.3	61.1	64.7	62.6	59.6	53.6	49.5	45.0	38.3	31.3
47.5°	89.0	90.5	83.6	86.2	83.0	78.5	70.6	62.0	54.4	47.0	37.1
45°	154.5	132.9	124.6	116.6	109.3	103.4	90.7	75.2	66.5	55.8	43.0
42.5°	244.5	215.0	191.7	151.7	148.7	132.3	113.2	95.2	79.0	65.0	50.2
40°	385.6	330.7	280.0	235.6	197.7	164.3	143.1	117.4	92.1	75.1	58.4
37.5°	535.7	466.1	399.6	331.3	262.7	216.1	176.2	140.8	107.7	86.9	66.8
35°	669.4	607.5	515.4	436.0	357.3	270.2	211.7	167.9	128.9	99.0	75.2
32.5°	784.1	724.9	624.7	536.4	434.0	325.7	256.4	198.8	150.5	111.5	84.1
30°	876.3	808.9	724.9	616.2	498.0	388.5	303.2	229.0	172.4	124.1	93.5
27.5°	966.4	889.9	813.3	689.2	557.5	442.3	342.1	258.7	194.6	138.4	103.8
25°	1074.1	974.6	890.2	768.8	615.8	485.8	376.9	287.7	218.4	154.8	113.6
22.5°	1208.5	1057.8	968.3	852.3	682.4	528.7	411.0	318.5	238.9	170.4	123.1
20°	1326.0	1131.6	1043.0	930.0	754.6	583.4	446.1	344.1	258.4	185.0	132.0
17.5°	1449.9	1208.9	1090.9	985.2	825.0	638.6	483.0	368.4	276.6	198.6	140.6
15°	1616.2	1292.3	1134.8	1032.9	885.2	691.6	519.0	391.4	293.6	211.1	148.8
12.5°	1752.8	1370.1	1178.1	1070.3	931.8	739.8	553.4	413.0	309.2	223.7	157.0
10°	1884.4	1453.1	1225.2	1105.6	971.1	782.9	586.0	435.8	327.7	236.3	164.6
7.5°	2029.3	1531.2	1270.6	1139.3	1004.3	818.8	619.4	463.0	345.6	247.9	171.7
5°	2146.4	1600.6	1317.3	1177.0	1036.2	846.4	649.6	488.6	362.1	258.5	178.3
2.5°	2180.2	1658.7	1362.9	1212.5	1063.3	868.2	676.0	512.2	377.1	267.9	184.2
0°	2189.1	1705.9	1404.0	1244.1	1085.3	884.6	698.7	533.3	390.2	276.0	189.5
-2.5°	2235.4	1744.0	1440.7	1289.4	1124.6	905.7	711.6	544.2	401.3	285.4	197.2
-5°	2261.2	1770.8	1473.3	1329.7	1156.8	921.6	720.6	552.3	410.3	293.4	204.2
-7.5°	2275.8	1790.2	1502.8	1363.1	1180.5	931.6	725.6	557.5	417.1	300.0	210.5
-10°	2268.8	1799.6	1528.1	1381.9	1191.6	941.1	728.3	560.0	421.6	304.9	215.9
-12.5°	2279.1	1801.8	1548.4	1395.8	1195.5	949.8	737.1	564.0	424.0	308.3	220.4
-15°	2279.5	1823.8	1581.1	1407.2	1193.4	952.1	740.5	566.0	424.7	310.2	224.1
-17.5°	2227.7	1825.5	1611.2	1423.8	1186.6	947.8	738.2	563.6	422.9	310.6	227.3
-20°	2212.5	1840.6	1628.5	1432.0	1171.7	938.0	730.1	556.6	418.5	309.5	229.9



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 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2191.8	1873.8	1648.1	1413.9	1150.5	922.8	718.5	545.5	411.6	306.7	231.8
-25°	2127.5	1895.0	1657.3	1393.1	1127.7	905.9	704.5	535.8	402.1	302.4	232.8
-27.5°	2089.7	1884.8	1651.8	1358.6	1103.4	882.0	690.0	528.6	395.7	296.4	232.9
-30°	2066.6	1853.7	1602.9	1313.9	1067.7	853.4	671.5	517.4	390.5	293.9	232.2
-32.5°	2013.3	1816.5	1529.1	1262.9	1027.9	819.7	648.9	502.0	382.7	293.6	231.7
-35°	1933.2	1722.9	1441.7	1198.6	983.7	790.0	623.4	482.2	372.2	292.0	230.8
-37.5°	1839.7	1591.6	1362.0	1130.5	926.8	753.3	597.4	464.3	359.0	288.9	229.4
-40°	1693.4	1463.2	1254.9	1058.6	870.2	707.7	567.1	447.1	351.0	284.3	227.0
-42.5°	1540.7	1336.4	1149.2	973.0	809.6	664.4	533.8	426.8	344.3	279.8	223.7
-45°	1395.2	1208.9	1042.3	890.6	745.1	617.7	507.0	405.6	335.9	274.8	220.4
-47.5°	1249.0	1089.9	941.2	804.0	688.6	571.1	474.6	393.7	325.6	268.7	217.8
-50°	1115.5	973.6	843.0	726.5	622.5	532.1	443.6	379.6	316.3	260.9	214.4
-52.5°	988.6	862.9	750.9	649.1	567.1	490.1	422.4	362.7	305.3	254.2	210.3
-55°	868.8	759.7	662.5	582.5	513.0	457.7	399.1	345.6	292.6	247.7	205.7
-57.5°	760.1	660.9	589.5	522.7	469.4	425.0	376.4	327.0	282.7	240.3	203.4
-60°	656.0	587.0	523.8	475.1	432.0	393.1	353.3	309.2	272.9	232.9	200.1
-62.5°	573.7	517.3	474.7	433.2	396.0	362.7	330.3	295.1	261.5	228.1	196.2
-65°	506.1	466.8	427.8	394.4	361.7	334.1	311.8	280.0	252.7	222.7	191.6
-67.5°	450.9	418.5	386.3	356.1	333.1	312.8	291.9	268.4	244.4	216.7	186.2
-70°	401.3	372.4	349.1	329.2	310.2	292.2	277.4	257.9	235.4	209.4	180.2
-72.5°	360.4	341.3	322.0	304.1	290.8	277.3	263.7	246.7	225.3	201.5	173.7
-75°	329.4	314.5	300.1	286.6	274.5	262.2	249.7	234.9	214.8	193.1	166.2
-77.5°	307.0	293.9	281.1	268.8	257.7	246.4	235.4	222.7	203.5	183.1	157.9
-80°	284.5	272.8	261.4	250.3	240.4	230.4	220.0	208.4	190.6	172.5	149.2
-82.5°	261.7	251.3	241.1	230.9	221.6	212.3	203.1	193.2	177.4	161.4	141.1
-85°	238.3	229.1	219.8	210.4	202.2	194.0	186.9	179.3	166.0	152.7	134.3
-87.5°	218.9	210.9	203.0	195.0	188.3	181.6	174.8	167.8	155.8	143.8	127.2
-90°	5.6	5.6	6.1	6.5	6.5	6.5	7.0	7.4	7.4	7.4	7.9



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	105.0	86.9	68.8	49.2	29.7	19.9	10.2
87.5°	8.9	8.8	8.7	8.7	8.6	9.5	10.2
85°	9.3	9.2	9.0	9.0	8.9	9.7	10.2
82.5°	9.8	9.6	9.3	9.3	9.1	9.9	10.2
80°	10.3	10.0	9.7	9.6	9.4	10.1	10.2
77.5°	10.8	10.4	10.0	9.9	9.6	10.3	10.2
75°	11.3	11.0	10.4	10.2	9.9	10.5	10.2
72.5°	11.9	11.7	11.0	10.5	10.2	10.8	10.2
70°	12.5	12.3	11.7	10.8	10.5	11.0	10.2
67.5°	13.3	13.0	12.4	11.4	10.8	11.2	10.2
65°	14.2	13.8	13.0	11.9	11.1	11.4	10.2
62.5°	15.0	14.5	13.7	12.5	11.5	11.6	10.2
60°	15.9	15.3	14.4	13.0	11.8	11.8	10.2
57.5°	17.7	16.2	15.3	13.6	12.4	12.1	10.2
55°	19.7	17.0	16.3	14.1	13.1	12.3	10.2
52.5°	21.9	18.1	17.4	14.6	13.8	12.5	10.2
50°	24.3	20.6	18.6	15.2	14.5	12.8	10.2
47.5°	27.2	23.3	19.8	15.8	15.2	13.0	10.2
45°	32.4	26.2	21.2	16.8	16.0	13.2	10.2
42.5°	37.5	29.1	22.6	17.9	16.8	13.4	10.2
40°	43.0	32.2	24.5	19.4	17.7	13.7	10.2
37.5°	48.9	35.5	27.0	21.3	18.6	13.9	10.2
35°	54.8	39.7	29.4	23.2	19.5	14.1	10.2
32.5°	61.3	44.5	31.9	25.1	20.4	14.3	10.2
30°	68.8	49.2	34.5	27.1	21.4	14.6	10.2
27.5°	76.1	53.8	37.9	29.1	22.4	14.8	10.2
25°	83.2	58.4	41.3	31.1	23.3	15.0	10.2
22.5°	90.1	63.1	44.7	33.2	24.3	15.2	10.2
20°	96.8	68.1	48.0	35.2	25.3	15.4	10.2
17.5°	103.5	73.0	51.2	37.2	26.3	15.6	10.2
15°	110.0	77.6	54.3	39.2	27.3	15.8	10.2
12.5°	116.1	82.0	57.4	41.2	28.2	15.9	10.2
10°	121.8	86.2	60.3	43.1	29.2	16.1	10.2
7.5°	127.0	90.1	63.1	45.0	30.1	16.3	10.2
5°	131.9	93.8	65.7	46.8	30.9	16.4	10.2
2.5°	136.3	97.2	68.2	48.6	31.7	16.6	10.2
0°	140.3	100.3	70.6	50.2	32.5	16.7	10.2
-2.5°	146.3	104.9	73.9	52.4	33.9	17.3	10.2
-5°	151.8	109.2	77.0	54.5	35.2	18.0	10.2
-7.5°	156.7	113.1	79.9	56.5	36.5	18.6	10.2
-10°	161.2	116.7	82.6	58.4	37.7	19.2	10.2
-12.5°	165.0	119.9	85.1	60.1	38.8	19.7	10.2
-15°	168.2	122.7	87.4	61.7	39.8	20.3	10.2
-17.5°	170.8	125.1	89.5	63.2	40.8	20.8	10.2
-20°	173.2	127.1	91.3	64.5	41.6	21.3	10.2



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 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	175.6	128.6	92.9	65.7	42.4	21.8	10.2
-25°	177.3	130.4	94.2	66.8	43.1	22.2	10.2
-27.5°	178.3	132.1	95.2	67.7	43.7	22.6	10.2
-30°	178.6	133.4	96.1	68.4	44.2	22.9	10.2
-32.5°	178.3	134.2	97.7	69.0	44.6	23.3	10.2
-35°	178.3	134.6	99.1	69.4	44.9	23.5	10.2
-37.5°	178.3	135.1	100.1	69.6	45.1	23.8	10.2
-40°	177.7	136.1	101.0	69.7	45.2	24.0	10.2
-42.5°	176.7	136.8	101.7	69.9	45.2	24.1	10.2
-45°	175.2	137.1	102.2	70.3	45.1	24.3	10.2
-47.5°	173.0	137.1	102.4	70.4	44.9	24.3	10.2
-50°	172.2	136.8	102.3	70.5	44.6	24.4	10.2
-52.5°	171.3	136.1	101.8	70.4	44.2	24.4	10.2
-55°	169.9	134.9	101.0	70.1	43.8	24.3	10.2
-57.5°	168.1	133.3	99.9	69.5	43.2	24.2	10.2
-60°	165.7	131.2	98.4	68.8	42.5	24.1	10.2
-62.5°	162.6	128.8	97.0	67.9	41.9	24.0	10.2
-65°	159.1	126.1	95.4	66.8	41.3	23.8	10.2
-67.5°	155.1	123.0	93.4	65.6	40.5	23.5	10.2
-70°	150.6	119.7	91.3	64.1	39.6	23.2	10.2
-72.5°	145.4	116.0	88.8	62.7	38.6	22.9	10.2
-75°	139.5	111.9	86.2	61.2	37.5	22.6	10.2
-77.5°	133.2	107.5	83.7	59.6	36.4	22.2	10.2
-80°	126.5	103.5	81.1	57.8	35.2	21.8	10.2
-82.5°	121.3	99.6	78.3	55.8	33.9	21.4	10.2
-85°	116.1	95.6	75.3	53.8	32.5	20.9	10.2
-87.5°	110.7	91.3	72.1	51.6	31.1	20.4	10.2
-90°	8.4	8.4	8.4	8.4	8.4	9.3	10.2

(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

