

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: P731497 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-80-7F-VHE**

Issue Date: 11/16/2023

Test Information

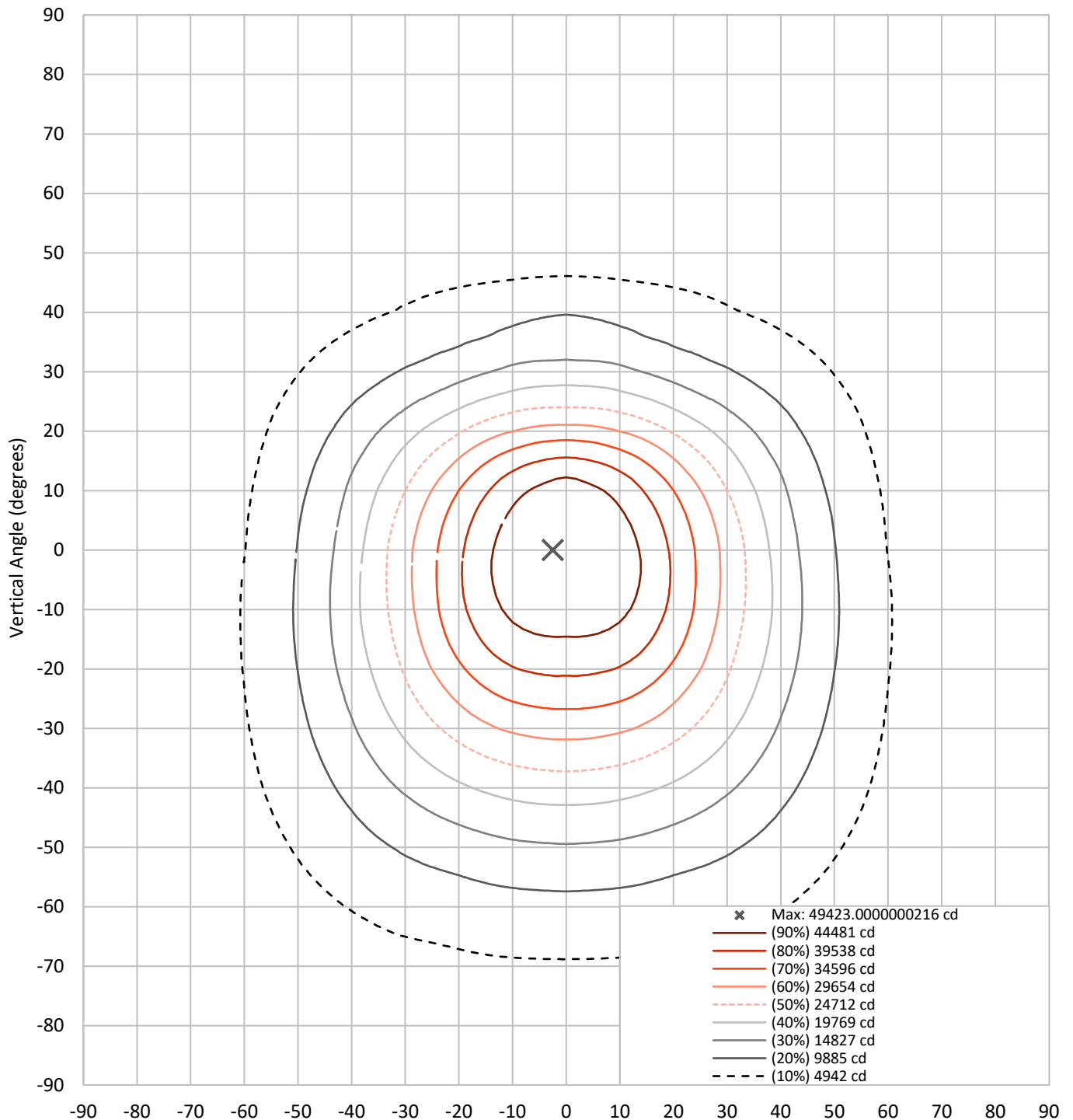
Test Method: LM-79-08
Report Number: P731497 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-6)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0530N-40-80-7F-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 7F BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	65750.8 lumens	Max Intensity:	49423 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	117.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	66.6°H x 61.2°V	Field Angle (10%):	119.6°H x 114.9°V
Beam Lumens:	35699.5 lumens	Field Lumens:	61614.4 lumens
Beam Efficiency:	54.3%	Field Efficiency:	93.7%
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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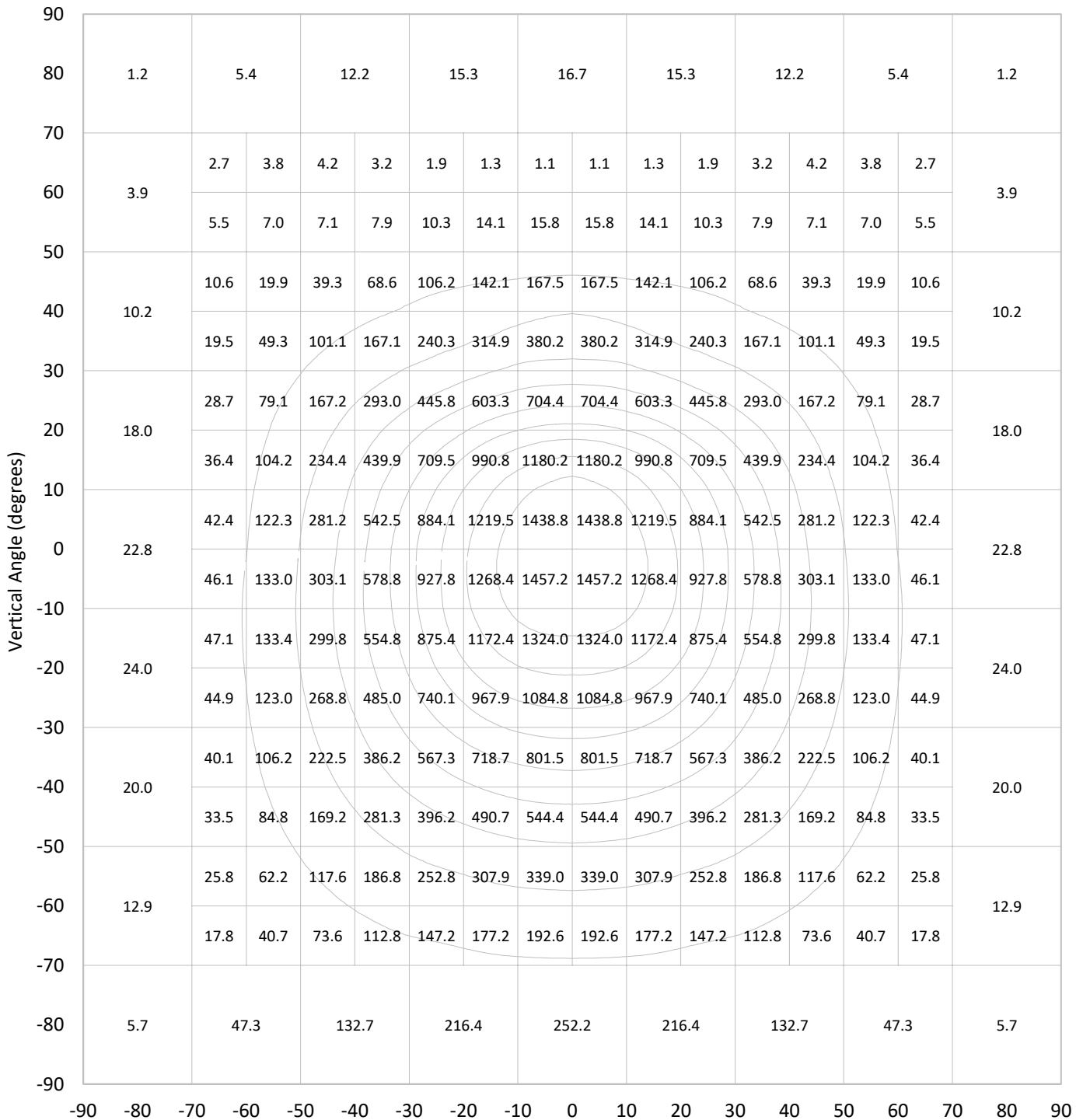
Iso-Candela Plot





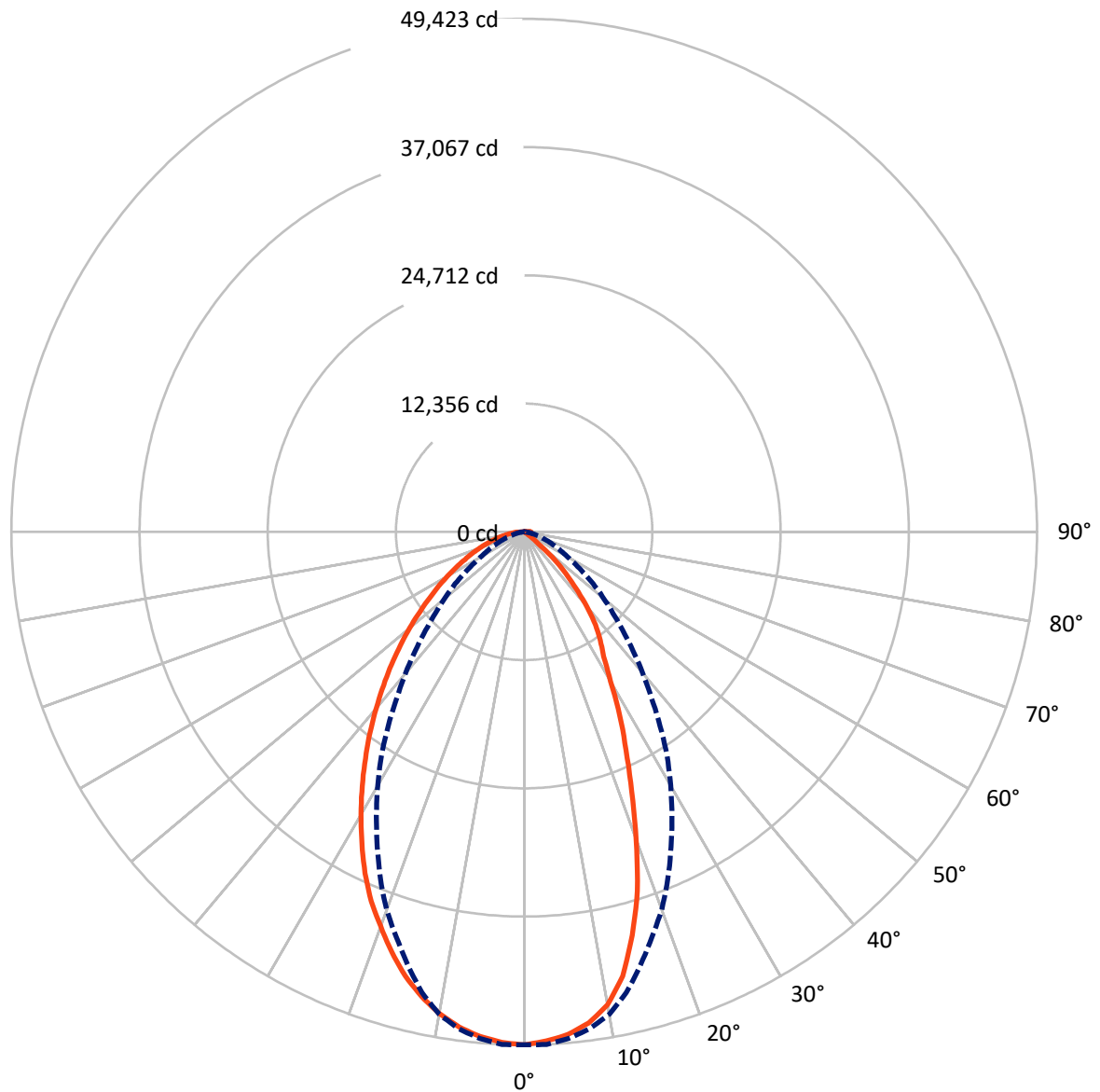
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Lumen Table



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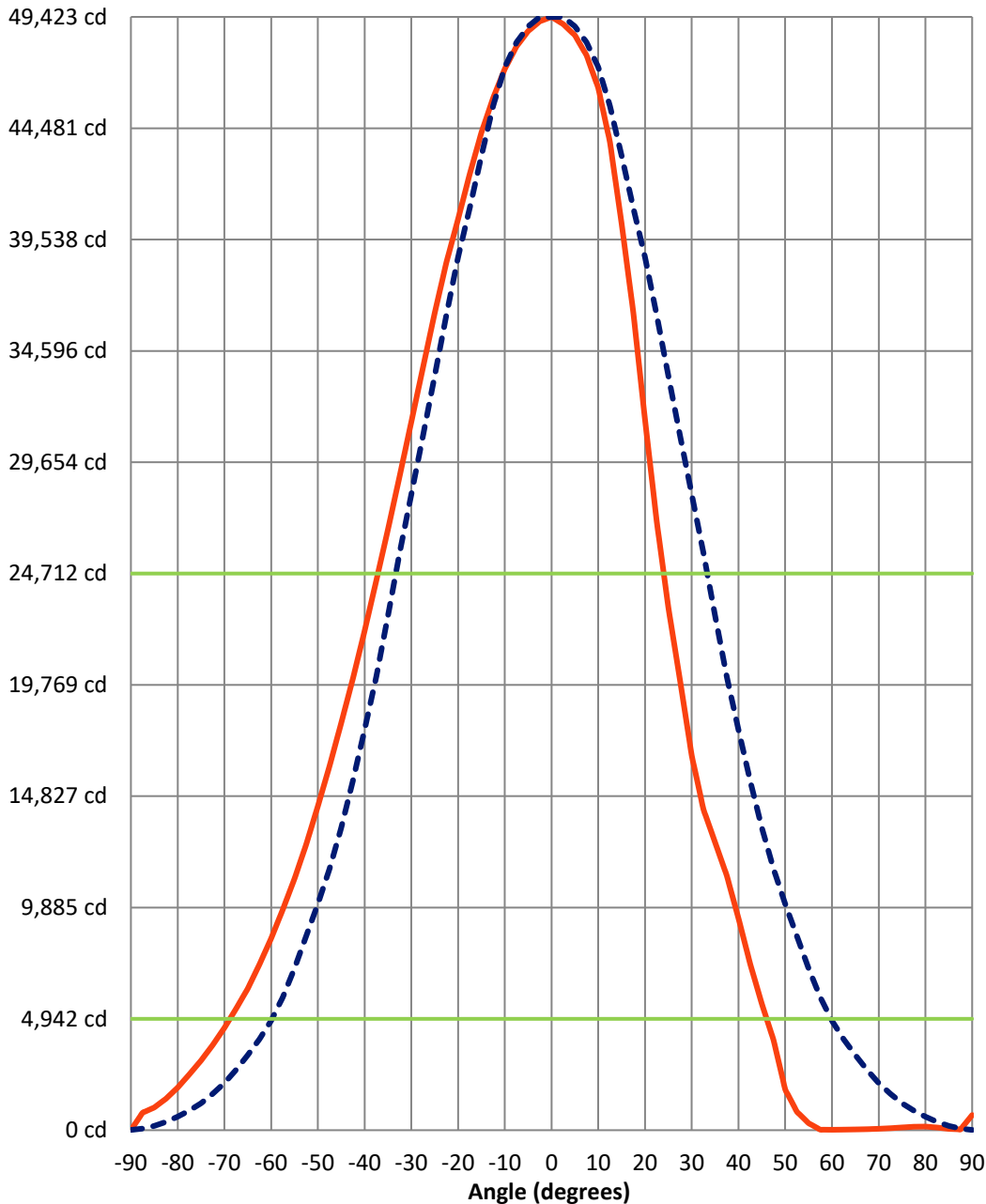
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 66.6°
 V Angle: 61.2°
 Lumens: 35699.5
 Efficiency: 54.3%

Field:
 H Angle: 119.6°
 V Angle: 114.9°
 Lumens: 61614.4
 Efficiency: 93.7%

Spill:
 Lumens: 4136.3
 Efficiency: 6.3%

— 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°	10.8	37.7	64.6	100.0	135.3	170.7	206.0	231.8	257.5	283.3	309.0
87.5°	10.8	13.7	15.6	17.0	18.0	18.9	19.5	19.4	19.2	18.7	18.0
85°	10.8	15.8	19.0	21.6	23.8	25.5	26.7	27.0	26.8	26.2	25.2
82.5°	10.8	18.0	22.3	26.3	29.5	32.0	33.9	34.6	35.2	37.8	39.8
80°	10.8	20.1	25.7	30.9	35.3	38.6	41.9	47.2	51.8	55.6	58.8
77.5°	10.8	22.2	29.1	35.6	41.0	47.9	55.7	62.3	68.4	73.6	76.0
75°	10.8	24.3	32.5	40.2	48.1	62.1	69.8	77.5	85.4	90.6	88.1
72.5°	10.8	26.4	35.9	44.8	61.4	76.4	84.3	94.5	106.0	108.3	101.6
70°	10.8	28.5	39.3	50.6	74.9	91.0	100.4	117.4	127.5	127.6	130.5
67.5°	10.8	30.6	42.8	62.0	88.4	105.9	124.9	141.0	150.5	163.5	164.6
65°	10.8	32.7	46.3	73.3	102.0	125.4	150.2	165.4	188.1	201.0	203.8
62.5°	10.8	34.7	49.8	84.6	115.7	149.5	176.1	199.3	226.9	242.5	252.8
60°	10.8	36.7	53.3	95.8	129.5	174.0	202.9	237.4	267.0	294.9	305.0
57.5°	10.8	38.7	61.5	107.0	150.5	198.9	239.6	277.0	317.6	349.8	366.0
55°	10.8	40.7	69.6	118.2	172.0	224.2	278.3	319.5	372.3	409.4	434.3
52.5°	10.8	42.7	77.6	129.3	193.6	251.3	317.6	372.8	428.7	480.3	507.6
50°	10.8	44.6	85.5	140.3	215.2	285.8	357.7	428.6	490.3	554.9	599.8
47.5°	10.8	46.5	93.2	152.6	236.8	320.4	399.7	485.6	562.3	633.4	701.6
45°	10.8	48.3	100.7	168.9	258.4	355.2	450.0	543.7	640.2	734.6	811.6
42.5°	10.8	50.1	108.1	185.0	279.9	390.1	500.7	609.5	720.6	841.9	959.5
40°	10.8	51.9	115.2	200.8	304.4	425.0	551.6	681.0	808.1	954.4	1124.0
37.5°	10.8	53.6	122.2	216.3	331.4	459.8	602.7	753.5	905.9	1074.6	1300.1
35°	10.8	55.2	128.9	231.3	358.1	498.6	653.8	826.8	1002.8	1214.7	1496.5
32.5°	10.8	56.8	135.4	245.7	384.2	539.2	707.6	900.6	1098.6	1349.1	1669.5
30°	10.8	58.4	141.6	259.5	409.7	579.1	767.4	976.0	1193.1	1477.6	1831.7
27.5°	10.8	59.9	147.6	272.7	432.9	618.1	826.5	1054.7	1291.8	1599.9	1982.9
25°	10.8	61.3	153.3	285.3	454.9	656.2	884.7	1131.3	1395.9	1724.8	2123.7
22.5°	10.8	62.6	158.7	297.2	475.7	691.4	941.6	1205.6	1494.3	1845.3	2271.7
20°	10.8	63.9	163.7	308.3	495.2	720.6	996.9	1277.2	1586.9	1956.3	2411.3
17.5°	10.8	65.1	168.4	318.7	513.5	747.6	1040.4	1345.9	1673.6	2057.9	2541.9
15°	10.8	66.2	172.8	328.3	530.4	772.3	1074.2	1403.6	1754.3	2150.2	2663.1
12.5°	10.8	67.2	176.8	337.1	545.9	794.8	1104.0	1448.7	1825.4	2233.4	2774.3
10°	10.8	68.1	180.4	345.0	559.9	814.8	1129.9	1490.6	1889.2	2331.1	2887.6
7.5°	10.8	68.9	183.6	352.0	572.3	832.4	1151.9	1528.8	1948.4	2427.8	3016.6
5°	10.8	69.6	186.3	358.1	583.1	847.5	1170.0	1562.7	2002.2	2519.0	3134.6
2.5°	10.8	70.2	188.7	363.3	592.2	860.1	1184.2	1591.9	2049.9	2603.0	3240.9
0°	10.8	70.7	190.6	367.4	599.6	870.1	1194.5	1615.8	2090.8	2678.1	3334.5
-2.5°	10.8	72.1	193.5	373.0	609.4	886.3	1223.2	1655.5	2141.8	2730.8	3393.7
-5°	10.8	73.4	196.0	377.5	617.3	899.8	1247.8	1689.0	2184.9	2772.9	3439.4
-7.5°	10.8	74.5	198.0	380.9	623.3	910.3	1267.8	1716.1	2219.6	2804.7	3471.4
-10°	10.8	75.5	199.5	383.2	627.3	917.8	1282.8	1736.3	2245.8	2826.3	3489.6
-12.5°	10.8	76.4	200.5	384.4	629.2	922.1	1292.6	1749.4	2263.0	2838.4	3503.8
-15°	10.8	77.2	201.1	384.5	629.0	923.1	1296.8	1755.1	2268.9	2843.4	3507.3
-17.5°	10.8	77.8	201.1	383.3	626.6	920.8	1295.0	1751.1	2262.3	2835.9	3494.2
-20°	10.8	78.3	200.6	381.0	622.0	914.9	1287.9	1738.2	2245.8	2815.7	3464.4



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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°	10.8	78.6	199.7	377.4	615.1	905.4	1276.6	1718.3	2219.0	2782.4	3417.5
-25°	10.8	78.8	198.2	372.6	605.9	896.1	1260.2	1691.6	2181.8	2736.0	3353.3
-27.5°	10.8	78.9	196.2	366.7	594.4	884.6	1238.9	1657.9	2134.1	2679.8	3290.3
-30°	10.8	78.8	193.8	359.5	581.0	869.3	1212.6	1617.4	2084.0	2617.8	3212.4
-32.5°	10.8	78.6	190.8	351.0	568.8	850.1	1181.4	1578.7	2030.4	2543.1	3118.9
-35°	10.8	78.2	187.4	341.4	554.1	827.0	1152.2	1536.9	1968.9	2455.8	3009.8
-37.5°	10.8	77.7	183.5	330.5	537.0	802.2	1121.0	1489.2	1899.7	2356.1	2896.6
-40°	10.8	77.0	179.1	318.5	517.5	778.4	1084.8	1436.0	1823.0	2262.6	2777.5
-42.5°	10.8	76.2	174.2	306.0	499.3	751.2	1043.5	1377.2	1750.1	2170.0	2647.0
-45°	10.8	75.3	168.9	293.7	482.9	720.9	997.4	1317.1	1676.4	2066.4	2509.1
-47.5°	10.8	74.2	163.1	280.2	464.7	687.3	946.5	1256.9	1596.4	1951.9	2379.0
-50°	10.8	72.9	156.9	270.6	444.5	650.7	900.2	1190.8	1506.9	1849.1	2235.9
-52.5°	10.8	71.6	150.2	261.7	422.5	611.1	851.5	1119.0	1416.4	1737.4	2083.3
-55°	10.8	70.1	143.2	251.7	398.8	578.4	799.1	1043.2	1322.0	1617.2	1945.9
-57.5°	10.8	68.5	135.7	240.9	373.3	545.3	743.0	975.8	1221.4	1498.0	1798.9
-60°	10.8	66.7	127.9	229.1	346.7	509.9	685.3	901.9	1118.6	1374.3	1647.6
-62.5°	10.8	64.8	123.9	216.5	328.2	472.3	638.1	823.3	1025.4	1244.0	1498.0
-65°	10.8	62.8	119.6	203.0	308.5	432.7	588.3	746.6	927.6	1125.3	1341.2
-67.5°	10.8	60.7	115.0	188.8	287.6	397.6	536.0	680.7	825.6	1006.1	1196.2
-70°	10.8	58.5	110.2	173.8	265.5	367.4	481.3	612.2	743.8	882.2	1053.4
-72.5°	10.8	56.2	105.2	164.5	242.4	335.7	437.9	541.5	659.8	783.6	912.7
-75°	10.8	53.8	99.9	156.3	218.3	302.6	394.6	481.9	573.4	682.7	796.6
-77.5°	10.8	51.3	94.4	147.7	203.7	268.3	349.8	425.3	503.3	585.4	677.7
-80°	10.8	48.7	88.8	138.7	190.8	244.8	303.5	367.3	433.4	502.9	575.6
-82.5°	10.8	46.1	82.9	129.4	177.5	227.0	277.8	318.7	362.2	418.8	477.7
-85°	10.8	43.4	77.0	119.9	163.8	208.7	254.4	290.2	326.0	362.3	398.9
-87.5°	10.8	40.6	70.8	110.0	149.7	189.9	230.5	261.2	292.0	323.0	354.2
-90°	10.8	11.6	12.3	12.3	12.3	12.3	12.3	11.9	11.6	11.2	10.8



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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°	331.7	354.4	377.0	399.7	422.0	444.3	466.6	488.9	509.7	530.4	551.2
87.5°	18.4	18.8	19.2	19.6	18.8	17.9	16.9	15.7	17.0	18.4	19.9
85°	26.0	26.9	29.1	30.9	32.0	33.7	35.7	38.1	42.6	47.2	51.6
82.5°	43.3	46.2	48.2	49.5	53.8	59.1	64.8	70.1	75.2	80.0	84.6
80°	62.6	65.6	66.2	66.9	72.5	79.5	86.9	94.6	100.7	106.4	111.7
77.5°	76.6	78.3	80.3	82.7	90.0	100.1	110.2	120.4	127.9	133.9	139.3
75°	87.7	90.8	98.2	102.8	110.9	122.7	134.6	146.0	153.5	157.6	160.4
72.5°	105.7	116.3	122.8	125.3	133.2	147.1	159.6	170.8	176.6	175.7	172.1
70°	133.3	143.2	151.7	154.9	158.3	171.8	182.1	190.0	193.5	186.5	172.7
67.5°	163.2	178.3	186.1	186.5	181.7	193.4	202.6	201.4	195.3	180.1	161.9
65°	201.5	216.0	222.9	220.1	207.0	209.7	209.0	203.6	189.5	168.6	146.9
62.5°	244.5	257.4	262.9	255.6	231.7	221.5	215.6	201.6	180.2	159.7	139.1
60°	299.1	302.0	305.5	292.4	262.4	234.1	223.0	209.0	186.0	157.9	141.0
57.5°	360.4	350.5	352.2	337.5	302.9	252.4	247.4	229.5	210.1	173.1	155.8
55°	431.1	404.1	408.4	395.0	363.3	306.7	287.5	285.0	257.8	228.7	196.6
52.5°	515.9	479.1	478.3	476.2	459.0	410.3	366.3	396.9	414.0	381.5	402.2
50°	611.1	592.8	565.3	597.3	607.4	581.7	543.0	628.4	731.3	778.3	777.1
47.5°	737.6	726.8	703.0	761.0	833.5	899.9	915.9	1070.1	1225.9	1398.1	1418.6
45°	886.6	914.0	900.4	1023.6	1178.8	1357.4	1490.1	1639.7	1994.3	2200.1	2504.8
42.5°	1052.0	1131.8	1204.6	1321.0	1687.1	1914.5	2114.5	2490.1	2842.9	3141.2	3456.0
40°	1264.8	1369.9	1528.9	1845.4	2240.1	2503.2	2847.7	3275.7	3632.9	3969.7	4292.1
37.5°	1495.6	1671.1	1886.5	2340.1	2789.3	3118.9	3540.8	3965.2	4371.3	4749.2	5199.9
35°	1739.5	1973.4	2312.6	2786.5	3257.9	3717.0	4181.2	4654.0	5117.5	5635.3	6142.1
32.5°	2005.0	2276.0	2704.1	3207.3	3735.0	4268.4	4807.7	5359.7	5948.8	6552.5	7090.3
30°	2244.5	2613.1	3068.7	3614.6	4210.0	4822.6	5452.0	6087.3	6810.6	7525.2	8170.3
27.5°	2427.6	2921.9	3430.7	4034.1	4686.4	5369.6	6098.9	6886.0	7728.1	8547.3	9313.1
25°	2603.1	3159.5	3777.8	4453.3	5178.0	5946.2	6762.0	7643.2	8676.5	9636.4	10591.6
22.5°	2787.1	3398.9	4066.1	4861.9	5656.6	6530.9	7436.0	8450.2	9592.2	10726.9	11887.7
20°	2982.8	3646.6	4350.7	5189.9	6104.4	7106.9	8070.4	9250.8	10521.2	11839.8	13255.7
17.5°	3173.5	3874.3	4626.4	5511.0	6502.2	7625.1	8682.0	10025.7	11433.5	12941.6	14543.1
15°	3357.3	4081.8	4878.0	5806.3	6887.0	8079.0	9315.2	10787.5	12362.0	14026.9	15708.6
12.5°	3532.0	4269.1	5104.7	6074.3	7246.3	8520.1	9881.8	11430.3	13154.8	14995.1	16828.3
10°	3695.4	4436.3	5306.2	6313.8	7575.8	8940.7	10386.2	12005.0	13798.0	15694.1	17738.7
7.5°	3819.2	4575.2	5483.9	6523.4	7871.2	9332.6	10827.6	12508.5	14341.5	16316.4	18514.4
5°	3914.0	4688.0	5648.2	6765.4	8155.0	9656.9	11190.7	12937.8	14787.1	16851.8	19184.0
2.5°	3986.0	4783.4	5789.0	6990.2	8409.1	9877.9	11427.5	13219.6	15187.9	17351.8	19728.2
0°	4038.6	4859.6	5903.5	7182.5	8615.4	10040.5	11602.4	13424.2	15513.5	17774.9	20130.2
-2.5°	4127.9	4994.7	6063.5	7334.9	8744.1	10199.7	11827.7	13709.1	15822.4	18041.9	20476.7
-5°	4199.4	5105.9	6192.9	7449.5	8827.9	10304.0	11982.9	13907.3	16024.6	18221.7	20655.6
-7.5°	4251.2	5190.0	6290.0	7525.6	8883.9	10388.1	12091.4	14005.9	16100.2	18329.0	20683.6
-10°	4281.8	5229.8	6320.6	7548.1	8914.1	10433.5	12133.1	14020.4	16077.6	18303.7	20607.0
-12.5°	4293.4	5228.9	6311.1	7529.8	8890.9	10411.8	12100.1	13952.0	15959.1	18141.1	20411.6
-15°	4285.7	5202.1	6267.2	7470.0	8812.6	10320.6	11991.8	13802.3	15739.0	17809.7	20016.4
-17.5°	4258.9	5149.3	6188.3	7368.5	8678.0	10157.9	11798.8	13525.7	15422.9	17427.2	19514.2
-20°	4212.8	5070.4	6074.1	7225.2	8494.2	9944.2	11526.1	13197.8	15020.2	16970.6	18951.5



REPORT NUMBER: P731497 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-7F-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	4147.7	4965.6	5940.8	7063.8	8317.9	9701.3	11200.5	12803.4	14507.2	16425.9	18313.6
-25°	4072.8	4873.0	5801.2	6888.0	8095.0	9416.8	10819.3	12351.9	13960.0	15755.7	17583.0
-27.5°	3987.5	4760.5	5652.5	6677.3	7821.5	9100.5	10441.5	11880.2	13402.9	15017.4	16769.6
-30°	3881.9	4632.6	5474.4	6446.5	7544.5	8756.3	10045.8	11346.2	12788.6	14310.9	15916.9
-32.5°	3756.8	4478.2	5296.7	6222.5	7242.9	8357.9	9583.9	10820.5	12151.3	13560.2	15048.5
-35°	3622.9	4321.4	5098.7	5967.4	6912.1	7957.0	9076.7	10253.0	11476.9	12800.8	14110.1
-37.5°	3488.1	4142.1	4867.5	5697.2	6602.2	7530.5	8537.5	9656.6	10803.5	11974.0	13176.4
-40°	3336.5	3940.7	4637.5	5411.1	6230.5	7091.8	8035.5	9034.3	10100.6	11156.6	12234.3
-42.5°	3171.3	3755.0	4393.7	5084.0	5850.8	6652.3	7499.0	8433.8	9363.2	10322.2	11317.3
-45°	3014.6	3552.0	4134.3	4775.9	5453.6	6194.8	6985.1	7802.1	8638.8	9486.3	10392.2
-47.5°	2846.1	3341.2	3889.7	4445.8	5068.6	5739.4	6450.1	7185.3	7909.9	8687.1	9461.3
-50°	2670.7	3143.4	3616.0	4132.8	4686.0	5288.0	5932.6	6566.5	7229.2	7902.1	8600.0
-52.5°	2494.7	2933.8	3361.9	3814.3	4314.7	4849.3	5410.9	5977.3	6566.2	7158.5	7756.7
-55°	2304.8	2712.2	3100.6	3509.3	3948.0	4427.0	4902.5	5412.1	5922.5	6464.5	6956.0
-57.5°	2125.1	2472.5	2832.0	3205.4	3598.1	4005.9	4428.1	4854.4	5318.9	5786.3	6207.4
-60°	1948.0	2241.9	2555.9	2897.3	3248.7	3609.9	3959.8	4340.3	4733.3	5116.1	5501.4
-62.5°	1764.2	2024.5	2292.9	2582.6	2902.4	3213.5	3529.4	3850.1	4170.2	4509.8	4835.6
-65°	1583.0	1804.9	2042.9	2293.9	2551.0	2832.2	3109.8	3380.6	3666.6	3944.6	4214.5
-67.5°	1393.6	1596.9	1800.6	2009.8	2239.7	2469.3	2700.2	2949.0	3190.5	3417.6	3646.4
-70°	1224.4	1388.0	1568.4	1753.0	1935.9	2124.2	2329.3	2534.9	2736.7	2930.3	3128.3
-72.5°	1056.3	1203.0	1350.4	1498.2	1657.3	1815.8	1976.0	2137.3	2306.0	2474.9	2639.1
-75°	906.4	1016.4	1144.5	1274.9	1399.1	1520.3	1644.3	1781.4	1916.3	2048.8	2180.0
-77.5°	769.8	862.6	958.7	1057.6	1152.1	1253.7	1355.7	1458.0	1558.6	1657.1	1753.6
-80°	641.3	706.4	783.8	863.9	939.0	1013.0	1087.0	1160.9	1235.4	1313.4	1393.9
-82.5°	530.8	584.0	637.7	692.0	741.9	790.6	841.0	898.6	957.6	1016.2	1074.0
-85°	429.8	460.3	501.5	543.3	583.1	622.4	661.1	699.3	738.5	777.2	815.2
-87.5°	381.0	407.5	434.0	460.3	485.6	510.7	535.7	560.4	585.6	610.8	635.9
-90°	10.8	10.8	10.8	10.8	10.4	10.0	9.6	9.2	8.8	8.5	8.1



REPORT NUMBER: P731497 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-7F-VHE

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	571.9	578.4	585.0	591.5	598.0	613.4	628.8	644.1	659.5	663.0	666.5
87.5°	21.5	21.6	21.6	21.6	21.5	24.9	28.5	32.1	35.8	35.4	34.9
85°	55.9	56.7	57.1	57.1	56.9	61.6	66.4	71.0	75.5	72.4	69.0
82.5°	89.0	90.7	92.2	93.8	95.5	100.4	105.3	109.9	114.2	115.6	116.9
80°	116.6	119.6	121.8	123.6	125.0	129.1	133.6	137.9	142.0	146.3	150.7
77.5°	143.2	144.2	143.7	142.3	140.1	140.7	141.6	142.1	142.2	144.4	147.0
75°	161.8	159.6	153.3	146.0	137.8	132.8	129.1	125.2	121.2	120.5	120.8
72.5°	165.8	157.4	147.0	134.1	121.3	112.5	106.5	100.7	95.2	92.5	90.9
70°	157.0	140.9	126.9	113.0	99.5	89.5	83.5	78.1	73.1	69.9	67.6
67.5°	141.4	121.4	106.7	92.5	79.3	68.9	63.7	58.9	54.6	51.4	49.0
65°	125.5	104.3	90.1	76.4	63.1	52.9	48.9	45.0	41.1	38.3	36.7
62.5°	116.7	94.5	79.8	67.8	55.8	43.9	39.8	35.7	31.7	28.6	27.2
60°	119.8	94.6	76.7	65.6	53.1	39.5	34.3	30.6	26.5	22.8	21.5
57.5°	138.6	111.1	84.3	80.0	67.4	47.2	49.1	57.2	51.1	35.2	33.5
55°	212.1	205.2	134.3	173.9	202.2	190.5	177.9	235.5	263.5	265.0	291.0
52.5°	421.4	471.2	452.6	474.2	591.1	638.4	632.2	735.2	788.6	781.3	809.2
50°	887.3	989.1	1114.5	1134.7	1330.8	1466.8	1499.6	1618.9	1751.3	1801.9	1859.0
47.5°	1731.7	1970.3	2091.3	2227.8	2453.6	2700.9	2892.5	3064.2	3250.1	3377.3	3530.7
45°	2820.9	2989.4	3200.0	3517.1	3861.7	4184.4	4487.6	4763.9	4946.1	5108.6	5281.1
42.5°	3716.8	3986.1	4339.4	4812.4	5302.6	5633.9	5883.3	6149.5	6434.2	6704.9	6954.4
40°	4634.3	4946.3	5506.9	6042.8	6408.6	6728.4	7069.8	7431.1	7803.3	8158.3	8511.4
37.5°	5617.6	6078.7	6569.6	7038.0	7425.1	7727.6	8195.4	8595.7	8968.6	9497.3	9982.2
35°	6663.9	7165.1	7586.8	8122.6	8555.3	8928.4	9418.0	9922.1	10244.8	10970.1	11597.9
32.5°	7704.9	8289.0	8851.3	9360.1	9897.0	10472.3	10948.8	11640.3	12166.4	12860.1	13542.0
30°	8789.5	9590.2	10292.2	10850.5	11582.0	12325.7	12994.2	13808.5	14584.0	15229.5	15952.3
27.5°	10158.1	11048.5	11904.5	12764.9	13546.4	14475.1	15539.2	16400.6	17393.3	18097.2	18853.1
25°	11610.2	12670.8	13809.4	14918.6	15943.7	17145.1	18351.6	19404.0	20432.9	21244.0	22051.8
22.5°	13189.2	14471.8	15826.9	17223.1	18609.0	19925.2	21220.3	22522.6	23708.6	24823.4	25600.0
20°	14792.8	16217.1	17862.8	19544.9	21140.7	22626.4	24182.6	25829.5	27336.6	28628.5	29585.2
17.5°	16239.4	18025.9	19835.9	21681.6	23481.2	25317.4	27248.2	29185.2	30969.6	32482.6	33752.8
15°	17542.6	19566.8	21662.1	23744.5	25814.1	27928.1	30184.2	32271.2	34271.3	36006.4	37491.4
12.5°	18827.7	20989.7	23235.8	25570.6	28024.1	30313.1	32610.1	34860.5	36956.5	38973.5	40461.1
10°	19965.1	22299.5	24704.2	27206.1	29747.3	32230.5	34651.7	36997.7	39057.0	40961.5	42761.2
7.5°	20891.8	23395.4	25961.9	28593.4	31208.7	33723.3	36189.3	38533.6	40623.8	42575.5	44416.0
5°	21691.1	24346.5	26995.2	29617.6	32249.2	34857.4	37347.0	39658.5	41835.7	43863.9	45708.3
2.5°	22343.4	25112.2	27796.0	30378.8	32999.7	35669.5	38222.0	40455.1	42731.0	44793.8	46609.3
0°	22832.9	25627.8	28225.9	30831.7	33485.2	36184.8	38752.2	40939.9	43256.7	45461.2	47187.7
-2.5°	23100.6	25731.4	28317.4	30931.8	33665.3	36442.3	39006.1	41364.1	43667.6	45734.1	47339.2
-5°	23193.6	25781.5	28358.3	31019.9	33729.6	36463.0	39018.1	41382.2	43594.3	45527.2	46991.2
-7.5°	23131.2	25693.7	28244.6	30880.1	33572.7	36273.4	38787.4	41048.8	43179.1	45009.9	46406.8
-10°	22942.7	25424.3	27976.1	30568.2	33266.5	35932.9	38396.6	40436.8	42470.7	44188.4	45509.2
-12.5°	22631.3	25007.3	27524.0	30058.7	32706.0	35269.0	37564.8	39596.2	41413.7	43153.4	44309.6
-15°	22189.5	24480.2	26886.3	29368.3	31876.5	34356.0	36594.5	38557.9	40241.6	41614.0	42831.6
-17.5°	21635.4	23845.7	26151.3	28529.6	30858.7	33217.6	35292.2	37259.9	38879.4	40101.1	41045.9
-20°	20953.3	23098.3	25303.2	27573.9	29737.9	31744.1	33744.0	35573.6	37174.5	38369.1	39277.2



REPORT NUMBER: P731497 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-7F-VHE

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	20233.3	22257.0	24345.9	26393.4	28364.0	30250.0	32061.3	33740.5	35262.7	36392.2	37261.2
-25°	19414.1	21306.7	23238.2	25087.2	26887.0	28642.9	30284.7	31840.7	33169.5	34268.2	35075.0
-27.5°	18516.9	20279.1	22022.4	23742.2	25412.0	26929.9	28440.5	29845.1	31013.7	32024.2	32738.7
-30°	17536.5	19148.1	20781.9	22394.0	23838.5	25205.9	26548.0	27767.2	28838.4	29725.7	30366.5
-32.5°	16502.5	17974.9	19490.3	20948.0	22214.8	23448.4	24618.6	25687.5	26669.7	27453.7	28031.6
-35°	15433.5	16797.6	18158.4	19418.8	20599.5	21696.9	22705.3	23652.6	24466.3	25181.0	25747.5
-37.5°	14382.0	15610.7	16791.7	17892.2	18983.1	19989.5	20870.4	21701.6	22441.3	23037.4	23534.1
-40°	13350.8	14438.4	15443.9	16423.4	17398.2	18250.2	19050.0	19766.8	20421.5	20991.0	21432.3
-42.5°	12325.7	13262.2	14130.1	15011.7	15854.4	16593.2	17289.7	17910.7	18478.9	18989.2	19417.1
-45°	11296.9	12097.8	12870.2	13645.3	14345.1	15003.1	15608.4	16154.1	16661.7	17091.4	17442.2
-47.5°	10246.1	10956.6	11658.3	12329.8	12910.4	13479.0	14000.2	14490.3	14947.7	15334.1	15644.0
-50°	9242.7	9870.8	10499.1	11054.2	11542.3	12015.8	12456.9	12930.1	13353.5	13705.5	13961.7
-52.5°	8300.7	8868.6	9408.7	9863.4	10276.0	10645.7	10984.5	11424.1	11822.6	12168.4	12395.5
-55°	7442.8	7928.9	8391.9	8767.5	9112.1	9420.5	9727.9	10081.3	10403.0	10690.7	10880.5
-57.5°	6635.3	7047.3	7432.5	7748.8	8036.2	8294.0	8579.5	8874.9	9138.7	9365.8	9518.6
-60°	5869.8	6220.5	6539.9	6800.1	7039.0	7256.0	7527.7	7785.5	8013.5	8198.7	8312.8
-62.5°	5147.6	5462.1	5710.5	5919.7	6110.5	6293.3	6530.8	6753.5	6959.2	7123.5	7219.0
-65°	4486.4	4761.8	4946.4	5112.0	5262.3	5427.0	5629.0	5810.1	5970.8	6092.8	6175.9
-67.5°	3883.6	4101.6	4247.1	4378.7	4507.5	4648.4	4819.8	4977.9	5122.5	5223.0	5285.1
-70°	3322.1	3490.1	3608.1	3720.0	3827.5	3948.3	4088.7	4219.5	4340.2	4418.2	4467.7
-72.5°	2798.2	2926.3	3023.8	3120.1	3206.9	3310.5	3424.9	3532.1	3631.7	3690.4	3728.1
-75°	2309.5	2407.7	2487.6	2561.5	2629.3	2716.5	2809.2	2896.2	2977.2	3022.0	3050.9
-77.5°	1856.4	1931.5	1991.7	2046.7	2096.6	2165.7	2237.1	2304.1	2366.6	2406.5	2438.5
-80°	1472.5	1518.0	1554.9	1589.3	1621.1	1672.8	1725.1	1774.5	1820.7	1846.7	1867.3
-82.5°	1131.1	1158.7	1180.7	1200.0	1216.6	1252.6	1288.5	1322.5	1354.5	1371.3	1385.6
-85°	852.6	867.4	879.9	891.0	900.8	925.9	950.6	974.5	997.5	1002.4	1005.8
-87.5°	661.0	669.1	676.7	684.1	691.3	709.8	728.3	746.7	764.9	768.1	770.9
-90°	7.7	7.3	6.9	6.5	6.1	5.7	5.4	5.0	4.6	4.2	3.9



REPORT NUMBER: P731497 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-7F-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	669.9	673.4	671.1	668.8	671.1	673.4	669.9	666.5	663.0	659.5	644.1
87.5°	34.3	33.7	33.8	33.8	33.8	33.7	34.3	34.9	35.4	35.8	32.1
85°	65.2	61.3	58.4	55.3	58.4	61.3	65.2	69.0	72.4	75.5	71.0
82.5°	118.1	119.2	119.0	118.4	119.0	119.2	118.1	116.9	115.6	114.2	109.9
80°	155.0	159.2	160.5	161.4	160.5	159.2	155.0	150.7	146.3	142.0	137.9
77.5°	149.6	152.2	153.0	153.7	153.0	152.2	149.6	147.0	144.4	142.2	142.1
75°	121.3	122.1	121.7	121.5	121.7	122.1	121.3	120.8	120.5	121.2	125.2
72.5°	89.6	88.5	87.8	87.6	87.8	88.5	89.6	90.9	92.5	95.2	100.7
70°	65.6	63.9	62.5	61.5	62.5	63.9	65.6	67.6	69.9	73.1	78.1
67.5°	47.1	45.4	44.0	43.0	44.0	45.4	47.1	49.0	51.4	54.6	58.9
65°	35.4	34.3	33.2	32.3	33.2	34.3	35.4	36.7	38.3	41.1	45.0
62.5°	26.1	25.1	24.7	24.6	24.7	25.1	26.1	27.2	28.6	31.7	35.7
60°	20.2	18.9	18.5	18.4	18.5	18.9	20.2	21.5	22.8	26.5	30.6
57.5°	30.2	25.9	23.3	21.5	23.3	25.9	30.2	33.5	35.2	51.1	57.2
55°	304.9	305.8	311.9	318.2	311.9	305.8	304.9	291.0	265.0	263.5	235.5
52.5°	830.5	827.8	820.3	805.6	820.3	827.8	830.5	809.2	781.3	788.6	735.2
50°	1893.2	1866.4	1808.5	1726.5	1808.5	1866.4	1893.2	1859.0	1801.9	1751.3	1618.9
47.5°	3737.4	3892.0	3999.0	4046.3	3999.0	3892.0	3737.4	3530.7	3377.3	3250.1	3064.2
45°	5460.6	5552.3	5605.8	5648.3	5605.8	5552.3	5460.6	5281.1	5108.6	4946.1	4763.9
42.5°	7166.8	7312.1	7383.7	7371.6	7383.7	7312.1	7166.8	6954.4	6704.9	6434.2	6149.5
40°	8850.6	9154.8	9404.5	9583.9	9404.5	9154.8	8850.6	8511.4	8158.3	7803.3	7431.1
37.5°	10461.8	10914.8	11297.5	11574.8	11297.5	10914.8	10461.8	9982.2	9497.3	8968.6	8595.7
35°	12111.6	12511.1	12773.3	12887.7	12773.3	12511.1	12111.6	11597.9	10970.1	10244.8	9922.1
32.5°	13976.8	14198.8	14245.9	14365.1	14245.9	14198.8	13976.8	13542.0	12860.1	12166.4	11640.3
30°	16392.4	16623.2	16628.8	16778.7	16628.8	16623.2	16392.4	15952.3	15229.5	14584.0	13808.5
27.5°	19449.0	19837.5	19963.7	20096.4	19963.7	19837.5	19449.0	18853.1	18097.2	17393.3	16400.6
25°	22722.0	23084.2	23200.2	23155.7	23200.2	23084.2	22722.0	22051.8	21244.0	20432.9	19404.0
22.5°	26395.6	26865.2	27036.0	26949.9	27036.0	26865.2	26395.6	25600.0	24823.4	23708.6	22522.6
20°	30507.2	31185.0	31543.3	31705.0	31543.3	31185.0	30507.2	29585.2	28628.5	27336.6	25829.5
17.5°	34835.0	35833.8	36292.5	36427.7	36292.5	35833.8	34835.0	33752.8	32482.6	30969.6	29185.2
15°	38772.1	39644.3	40239.1	40544.8	40239.1	39644.3	38772.1	37491.4	36006.4	34271.3	32271.2
12.5°	41816.4	42927.9	43854.4	44351.3	43854.4	42927.9	41816.4	40461.1	38973.5	36956.5	34860.5
10°	44297.9	45420.2	46262.7	46671.1	46262.7	45420.2	44297.9	42761.2	40961.5	39057.0	36997.7
7.5°	46014.8	47057.8	47711.9	47979.4	47711.9	47057.8	46014.8	44416.0	42575.5	40623.8	38533.6
5°	47124.5	48121.8	48605.3	48778.9	48605.3	48121.8	47124.5	45708.3	43863.9	41835.7	39658.5
2.5°	47923.5	48712.6	49099.8	49124.8	49099.8	48712.6	47923.5	46609.3	44793.8	42731.0	40455.1
0°	48288.4	48998.7	49423.0	49415.3	49423.0	48998.7	48288.4	47187.7	45461.2	43256.7	40939.9
-2.5°	48306.1	48924.1	49225.6	49055.6	49225.6	48924.1	48306.1	47339.2	45734.1	43667.6	41364.1
-5°	47961.6	48566.4	48792.4	48740.4	48792.4	48566.4	47961.6	46991.2	45527.2	43594.3	41382.2
-7.5°	47343.1	47879.7	48110.4	48117.8	48110.4	47879.7	47343.1	46406.8	45009.9	43179.1	41048.8
-10°	46399.8	46848.2	47112.4	47037.0	47112.4	46848.2	46399.8	45509.2	44188.4	42470.7	40436.8
-12.5°	45152.0	45594.5	45818.6	45773.3	45818.6	45594.5	45152.0	44309.6	43153.4	41413.7	39596.2
-15°	43659.4	44080.0	44290.0	44269.8	44290.0	44080.0	43659.4	42831.6	41614.0	40241.6	38557.9
-17.5°	41811.4	42233.1	42448.0	42477.2	42448.0	42233.1	41811.4	41045.9	40101.1	38879.4	37259.9
-20°	39874.8	40246.6	40443.5	40446.4	40443.5	40246.6	39874.8	39277.2	38369.1	37174.5	35573.6



REPORT NUMBER: P731497 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	37867.3	38284.8	38518.4	38483.2	38518.4	38284.8	37867.3	37261.2	36392.2	35262.7	33740.5
-25°	35629.7	36048.1	36275.3	36266.3	36275.3	36048.1	35629.7	35075.0	34268.2	33169.5	31840.7
-27.5°	33241.0	33643.1	33862.4	33889.5	33862.4	33643.1	33241.0	32738.7	32024.2	31013.7	29845.1
-30°	30834.8	31231.3	31446.0	31463.6	31446.0	31231.3	30834.8	30366.5	29725.7	28838.4	27767.2
-32.5°	28477.0	28835.0	29033.4	29054.5	29033.4	28835.0	28477.0	28031.6	27453.7	26669.7	25687.5
-35°	26176.7	26491.2	26669.3	26727.0	26669.3	26491.2	26176.7	25747.5	25181.0	24466.3	23652.6
-37.5°	23937.8	24222.2	24394.1	24499.4	24394.1	24222.2	23937.8	23534.1	23037.4	22441.3	21701.6
-40°	21775.4	22024.6	22161.6	22164.1	22161.6	22024.6	21775.4	21432.3	20991.0	20421.5	19766.8
-42.5°	19734.0	19943.8	20048.6	20050.2	20048.6	19943.8	19734.0	19417.1	18989.2	18478.9	17910.7
-45°	17724.8	17930.0	18075.2	18167.0	18075.2	17930.0	17724.8	17442.2	17091.4	16661.7	16154.1
-47.5°	15880.5	16048.7	16164.0	16226.8	16164.0	16048.7	15880.5	15644.0	15334.1	14947.7	14490.3
-50°	14149.3	14283.8	14382.2	14440.4	14382.2	14283.8	14149.3	13961.7	13705.5	13353.5	12930.1
-52.5°	12549.5	12647.7	12683.0	12660.2	12683.0	12647.7	12549.5	12395.5	12168.4	11822.6	11424.1
-55°	11022.7	11120.5	11159.7	11145.9	11159.7	11120.5	11022.7	10880.5	10690.7	10403.0	10081.3
-57.5°	9638.9	9725.7	9795.1	9837.6	9795.1	9725.7	9638.9	9518.6	9365.8	9138.7	8874.9
-60°	8402.7	8466.9	8510.5	8527.7	8510.5	8466.9	8402.7	8312.8	8198.7	8013.5	7785.5
-62.5°	7286.1	7326.1	7357.1	7370.1	7357.1	7326.1	7286.1	7219.0	7123.5	6959.2	6753.5
-65°	6242.2	6290.9	6285.0	6250.9	6285.0	6290.9	6242.2	6175.9	6092.8	5970.8	5810.1
-67.5°	5332.1	5363.8	5391.1	5405.4	5391.1	5363.8	5332.1	5285.1	5223.0	5122.5	4977.9
-70°	4505.6	4531.5	4541.2	4538.3	4541.2	4531.5	4505.6	4467.7	4418.2	4340.2	4219.5
-72.5°	3756.5	3775.5	3779.2	3772.7	3779.2	3775.5	3756.5	3728.1	3690.4	3631.7	3532.1
-75°	3071.5	3084.1	3090.5	3090.1	3090.5	3084.1	3071.5	3050.9	3022.0	2977.2	2896.2
-77.5°	2465.2	2486.4	2477.4	2461.3	2477.4	2486.4	2465.2	2438.5	2406.5	2366.6	2304.1
-80°	1884.1	1897.1	1890.1	1878.7	1890.1	1897.1	1884.1	1867.3	1846.7	1820.7	1774.5
-82.5°	1397.9	1408.1	1396.5	1382.1	1396.5	1408.1	1397.9	1385.6	1371.3	1354.5	1322.5
-85°	1008.3	1009.8	1008.9	1007.0	1008.9	1009.8	1008.3	1005.8	1002.4	997.5	974.5
-87.5°	773.6	776.0	774.0	771.8	774.0	776.0	773.6	770.9	768.1	764.9	746.7
-90°	3.5	3.1	3.9	4.6	3.9	3.1	3.5	3.9	4.2	4.6	5.0



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	628.8	613.4	598.0	591.5	585.0	578.4	571.9	551.2	530.4	509.7	488.9
87.5°	28.5	24.9	21.5	21.6	21.6	21.6	21.5	19.9	18.4	17.0	15.7
85°	66.4	61.6	56.9	57.1	57.1	56.7	55.9	51.6	47.2	42.6	38.1
82.5°	105.3	100.4	95.5	93.8	92.2	90.7	89.0	84.6	80.0	75.2	70.1
80°	133.6	129.1	125.0	123.6	121.8	119.6	116.6	111.7	106.4	100.7	94.6
77.5°	141.6	140.7	140.1	142.3	143.7	144.2	143.2	139.3	133.9	127.9	120.4
75°	129.1	132.8	137.8	146.0	153.3	159.6	161.8	160.4	157.6	153.5	146.0
72.5°	106.5	112.5	121.3	134.1	147.0	157.4	165.8	172.1	175.7	176.6	170.8
70°	83.5	89.5	99.5	113.0	126.9	140.9	157.0	172.7	186.5	193.5	190.0
67.5°	63.7	68.9	79.3	92.5	106.7	121.4	141.4	161.9	180.1	195.3	201.4
65°	48.9	52.9	63.1	76.4	90.1	104.3	125.5	146.9	168.6	189.5	203.6
62.5°	39.8	43.9	55.8	67.8	79.8	94.5	116.7	139.1	159.7	180.2	201.6
60°	34.3	39.5	53.1	65.6	76.7	94.6	119.8	141.0	157.9	186.0	209.0
57.5°	49.1	47.2	67.4	80.0	84.3	111.1	138.6	155.8	173.1	210.1	229.5
55°	177.9	190.5	202.2	173.9	134.3	205.2	212.1	196.6	228.7	257.8	285.0
52.5°	632.2	638.4	591.1	474.2	452.6	471.2	421.4	402.2	381.5	414.0	396.9
50°	1499.6	1466.8	1330.8	1134.7	1114.5	989.1	887.3	777.1	778.3	731.3	628.4
47.5°	2892.5	2700.9	2453.6	2227.8	2091.3	1970.3	1731.7	1418.6	1398.1	1225.9	1070.1
45°	4487.6	4184.4	3861.7	3517.1	3200.0	2989.4	2820.9	2504.8	2200.1	1994.3	1639.7
42.5°	5883.3	5633.9	5302.6	4812.4	4339.4	3986.1	3716.8	3456.0	3141.2	2842.9	2490.1
40°	7069.8	6728.4	6408.6	6042.8	5506.9	4946.3	4634.3	4292.1	3969.7	3632.9	3275.7
37.5°	8195.4	7727.6	7425.1	7038.0	6569.6	6078.7	5617.6	5199.9	4749.2	4371.3	3965.2
35°	9418.0	8928.4	8555.3	8122.6	7586.8	7165.1	6663.9	6142.1	5635.3	5117.5	4654.0
32.5°	10948.8	10472.3	9897.0	9360.1	8851.3	8289.0	7704.9	7090.3	6552.5	5948.8	5359.7
30°	12994.2	12325.7	11582.0	10850.5	10292.2	9590.2	8789.5	8170.3	7525.2	6810.6	6087.3
27.5°	15539.2	14475.1	13546.4	12764.9	11904.5	11048.5	10158.1	9313.1	8547.3	7728.1	6886.0
25°	18351.6	17145.1	15943.7	14918.6	13809.4	12670.8	11610.2	10591.6	9636.4	8676.5	7643.2
22.5°	21220.3	19925.2	18609.0	17223.1	15826.9	14471.8	13189.2	11887.7	10726.9	9592.2	8450.2
20°	24182.6	22626.4	21140.7	19544.9	17862.8	16217.1	14792.8	13255.7	11839.8	10521.2	9250.8
17.5°	27248.2	25317.4	23481.2	21681.6	19835.9	18025.9	16239.4	14543.1	12941.6	11433.5	10025.7
15°	30184.2	27928.1	25814.1	23744.5	21662.1	19566.8	17542.6	15708.6	14026.9	12362.0	10787.5
12.5°	32610.1	30313.1	28024.1	25570.6	23235.8	20989.7	18827.7	16828.3	14995.1	13154.8	11430.3
10°	34651.7	32230.5	29747.3	27206.1	24704.2	22299.5	19965.1	17738.7	15694.1	13798.0	12005.0
7.5°	36189.3	33723.3	31208.7	28593.4	25961.9	23395.4	20891.8	18514.4	16316.4	14341.5	12508.5
5°	37347.0	34857.4	32249.2	29617.6	26995.2	24346.5	21691.1	19184.0	16851.8	14787.1	12937.8
2.5°	38222.0	35669.5	32999.7	30378.8	27796.0	25112.2	22343.4	19728.2	17351.8	15187.9	13219.6
0°	38752.2	36184.8	33485.2	30831.7	28225.9	25627.8	22832.9	20130.2	17774.9	15513.5	13424.2
-2.5°	39006.1	36442.3	33665.3	30931.8	28317.4	25731.4	23100.6	20476.7	18041.9	15822.4	13709.1
-5°	39018.1	36463.0	33729.6	31019.9	28358.3	25781.5	23193.6	20655.6	18221.7	16024.6	13907.3
-7.5°	38787.4	36273.4	33572.7	30880.1	28244.6	25693.7	23131.2	20683.6	18329.0	16100.2	14005.9
-10°	38396.6	35932.9	33266.5	30568.2	27976.1	25424.3	22942.7	20607.0	18303.7	16077.6	14020.4
-12.5°	37564.8	35269.0	32706.0	30058.7	27524.0	25007.3	22631.3	20411.6	18141.1	15959.1	13952.0
-15°	36594.5	34356.0	31876.5	29368.3	26886.3	24480.2	22189.5	20016.4	17809.7	15739.0	13802.3
-17.5°	35292.2	33217.6	30858.7	28529.6	26151.3	23845.7	21635.4	19514.2	17427.2	15422.9	13525.7
-20°	33744.0	31744.1	29737.9	27573.9	25303.2	23098.3	20953.3	18951.5	16970.6	15020.2	13197.8



REPORT NUMBER: P731497 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	32061.3	30250.0	28364.0	26393.4	24345.9	22257.0	20233.3	18313.6	16425.9	14507.2	12803.4
-25°	30284.7	28642.9	26887.0	25087.2	23238.2	21306.7	19414.1	17583.0	15755.7	13960.0	12351.9
-27.5°	28440.5	26929.9	25412.0	23742.2	22022.4	20279.1	18516.9	16769.6	15017.4	13402.9	11880.2
-30°	26548.0	25205.9	23838.5	22394.0	20781.9	19148.1	17536.5	15916.9	14310.9	12788.6	11346.2
-32.5°	24618.6	23448.4	22214.8	20948.0	19490.3	17974.9	16502.5	15048.5	13560.2	12151.3	10820.5
-35°	22705.3	21696.9	20599.5	19418.8	18158.4	16797.6	15433.5	14110.1	12800.8	11476.9	10253.0
-37.5°	20870.4	19989.5	18983.1	17892.2	16791.7	15610.7	14382.0	13176.4	11974.0	10803.5	9656.6
-40°	19050.0	18250.2	17398.2	16423.4	15443.9	14438.4	13350.8	12234.3	11156.6	10100.6	9034.3
-42.5°	17289.7	16593.2	15854.4	15011.7	14130.1	13262.2	12325.7	11317.3	10322.2	9363.2	8433.8
-45°	15608.4	15003.1	14345.1	13645.3	12870.2	12097.8	11296.9	10392.2	9486.3	8638.8	7802.1
-47.5°	14000.2	13479.0	12910.4	12329.8	11658.3	10956.6	10246.1	9461.3	8687.1	7909.9	7185.3
-50°	12456.9	12015.8	11542.3	11054.2	10499.1	9870.8	9242.7	8600.0	7902.1	7229.2	6566.5
-52.5°	10984.5	10645.7	10276.0	9863.4	9408.7	8868.6	8300.7	7756.7	7158.5	6566.2	5977.3
-55°	9727.9	9420.5	9112.1	8767.5	8391.9	7928.9	7442.8	6956.0	6464.5	5922.5	5412.1
-57.5°	8579.5	8294.0	8036.2	7748.8	7432.5	7047.3	6635.3	6207.4	5786.3	5318.9	4854.4
-60°	7527.7	7256.0	7039.0	6800.1	6539.9	6220.5	5869.8	5501.4	5116.1	4733.3	4340.3
-62.5°	6530.8	6293.3	6110.5	5919.7	5710.5	5462.1	5147.6	4835.6	4509.8	4170.2	3850.1
-65°	5629.0	5427.0	5262.3	5112.0	4946.4	4761.8	4486.4	4214.5	3944.6	3666.6	3380.6
-67.5°	4819.8	4648.4	4507.5	4378.7	4247.1	4101.6	3883.6	3646.4	3417.6	3190.5	2949.0
-70°	4088.7	3948.3	3827.5	3720.0	3608.1	3490.1	3322.1	3128.3	2930.3	2736.7	2534.9
-72.5°	3424.9	3310.5	3206.9	3120.1	3023.8	2926.3	2798.2	2639.1	2474.9	2306.0	2137.3
-75°	2809.2	2716.5	2629.3	2561.5	2487.6	2407.7	2309.5	2180.0	2048.8	1916.3	1781.4
-77.5°	2237.1	2165.7	2096.6	2046.7	1991.7	1931.5	1856.4	1753.6	1657.1	1558.6	1458.0
-80°	1725.1	1672.8	1621.1	1589.3	1554.9	1518.0	1472.5	1393.9	1313.4	1235.4	1160.9
-82.5°	1288.5	1252.6	1216.6	1200.0	1180.7	1158.7	1131.1	1074.0	1016.2	957.6	898.6
-85°	950.6	925.9	900.8	891.0	879.9	867.4	852.6	815.2	777.2	738.5	699.3
-87.5°	728.3	709.8	691.3	684.1	676.7	669.1	661.0	635.9	610.8	585.6	560.4
-90°	5.4	5.7	6.1	6.5	6.9	7.3	7.7	8.1	8.5	8.8	9.2



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	466.6	444.3	422.0	399.7	377.0	354.4	331.7	309.0	283.3	257.5	231.8
87.5°	16.9	17.9	18.8	19.6	19.2	18.8	18.4	18.0	18.7	19.2	19.4
85°	35.7	33.7	32.0	30.9	29.1	26.9	26.0	25.2	26.2	26.8	27.0
82.5°	64.8	59.1	53.8	49.5	48.2	46.2	43.3	39.8	37.8	35.2	34.6
80°	86.9	79.5	72.5	66.9	66.2	65.6	62.6	58.8	55.6	51.8	47.2
77.5°	110.2	100.1	90.0	82.7	80.3	78.3	76.6	76.0	73.6	68.4	62.3
75°	134.6	122.7	110.9	102.8	98.2	90.8	87.7	88.1	90.6	85.4	77.5
72.5°	159.6	147.1	133.2	125.3	122.8	116.3	105.7	101.6	108.3	106.0	94.5
70°	182.1	171.8	158.3	154.9	151.7	143.2	133.3	130.5	127.6	127.5	117.4
67.5°	202.6	193.4	181.7	186.5	186.1	178.3	163.2	164.6	163.5	150.5	141.0
65°	209.0	209.7	207.0	220.1	222.9	216.0	201.5	203.8	201.0	188.1	165.4
62.5°	215.6	221.5	231.7	255.6	262.9	257.4	244.5	252.8	242.5	226.9	199.3
60°	223.0	234.1	262.4	292.4	305.5	302.0	299.1	305.0	294.9	267.0	237.4
57.5°	247.4	252.4	302.9	337.5	352.2	350.5	360.4	366.0	349.8	317.6	277.0
55°	287.5	306.7	363.3	395.0	408.4	404.1	431.1	434.3	409.4	372.3	319.5
52.5°	366.3	410.3	459.0	476.2	478.3	479.1	515.9	507.6	480.3	428.7	372.8
50°	543.0	581.7	607.4	597.3	565.3	592.8	611.1	599.8	554.9	490.3	428.6
47.5°	915.9	899.9	833.5	761.0	703.0	726.8	737.6	701.6	633.4	562.3	485.6
45°	1490.1	1357.4	1178.8	1023.6	900.4	914.0	886.6	811.6	734.6	640.2	543.7
42.5°	2114.5	1914.5	1687.1	1321.0	1204.6	1131.8	1052.0	959.5	841.9	720.6	609.5
40°	2847.7	2503.2	2240.1	1845.4	1528.9	1369.9	1264.8	1124.0	954.4	808.1	681.0
37.5°	3540.8	3118.9	2789.3	2340.1	1886.5	1671.1	1495.6	1300.1	1074.6	905.9	753.5
35°	4181.2	3717.0	3257.9	2786.5	2312.6	1973.4	1739.5	1496.5	1214.7	1002.8	826.8
32.5°	4807.7	4268.4	3735.0	3207.3	2704.1	2276.0	2005.0	1669.5	1349.1	1098.6	900.6
30°	5452.0	4822.6	4210.0	3614.6	3068.7	2613.1	2244.5	1831.7	1477.6	1193.1	976.0
27.5°	6098.9	5369.6	4686.4	4034.1	3430.7	2921.9	2427.6	1982.9	1599.9	1291.8	1054.7
25°	6762.0	5946.2	5178.0	4453.3	3777.8	3159.5	2603.1	2123.7	1724.8	1395.9	1131.3
22.5°	7436.0	6530.9	5656.6	4861.9	4066.1	3398.9	2787.1	2271.7	1845.3	1494.3	1205.6
20°	8070.4	7106.9	6104.4	5189.9	4350.7	3646.6	2982.8	2411.3	1956.3	1586.9	1277.2
17.5°	8682.0	7625.1	6502.2	5511.0	4626.4	3874.3	3173.5	2541.9	2057.9	1673.6	1345.9
15°	9315.2	8079.0	6887.0	5806.3	4878.0	4081.8	3357.3	2663.1	2150.2	1754.3	1403.6
12.5°	9881.8	8520.1	7246.3	6074.3	5104.7	4269.1	3532.0	2774.3	2233.4	1825.4	1448.7
10°	10386.2	8940.7	7575.8	6313.8	5306.2	4436.3	3695.4	2887.6	2331.1	1889.2	1490.6
7.5°	10827.6	9332.6	7871.2	6523.4	5483.9	4575.2	3819.2	3016.6	2427.8	1948.4	1528.8
5°	11190.7	9656.9	8155.0	6765.4	5648.2	4688.0	3914.0	3134.6	2519.0	2002.2	1562.7
2.5°	11427.5	9877.9	8409.1	6990.2	5789.0	4783.4	3986.0	3240.9	2603.0	2049.9	1591.9
0°	11602.4	10040.5	8615.4	7182.5	5903.5	4859.6	4038.6	3334.5	2678.1	2090.8	1615.8
-2.5°	11827.7	10199.7	8744.1	7334.9	6063.5	4994.7	4127.9	3393.7	2730.8	2141.8	1655.5
-5°	11982.9	10304.0	8827.9	7449.5	6192.9	5105.9	4199.4	3439.4	2772.9	2184.9	1689.0
-7.5°	12091.4	10388.1	8883.9	7525.6	6290.0	5190.0	4251.2	3471.4	2804.7	2219.6	1716.1
-10°	12133.1	10433.5	8914.1	7548.1	6320.6	5229.8	4281.8	3489.6	2826.3	2245.8	1736.3
-12.5°	12100.1	10411.8	8890.9	7529.8	6311.1	5228.9	4293.4	3503.8	2838.4	2263.0	1749.4
-15°	11991.8	10320.6	8812.6	7470.0	6267.2	5202.1	4285.7	3507.3	2843.4	2268.9	1755.1
-17.5°	11798.8	10157.9	8678.0	7368.5	6188.3	5149.3	4258.9	3494.2	2835.9	2262.3	1751.1
-20°	11526.1	9944.2	8494.2	7225.2	6074.1	5070.4	4212.8	3464.4	2815.7	2245.8	1738.2



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	11200.5	9701.3	8317.9	7063.8	5940.8	4965.6	4147.7	3417.5	2782.4	2219.0	1718.3
-25°	10819.3	9416.8	8095.0	6888.0	5801.2	4873.0	4072.8	3353.3	2736.0	2181.8	1691.6
-27.5°	10441.5	9100.5	7821.5	6677.3	5652.5	4760.5	3987.5	3290.3	2679.8	2134.1	1657.9
-30°	10045.8	8756.3	7544.5	6446.5	5474.4	4632.6	3881.9	3212.4	2617.8	2084.0	1617.4
-32.5°	9583.9	8357.9	7242.9	6222.5	5296.7	4478.2	3756.8	3118.9	2543.1	2030.4	1578.7
-35°	9076.7	7957.0	6912.1	5967.4	5098.7	4321.4	3622.9	3009.8	2455.8	1968.9	1536.9
-37.5°	8537.5	7530.5	6602.2	5697.2	4867.5	4142.1	3488.1	2896.6	2356.1	1899.7	1489.2
-40°	8035.5	7091.8	6230.5	5411.1	4637.5	3940.7	3336.5	2777.5	2262.6	1823.0	1436.0
-42.5°	7499.0	6652.3	5850.8	5084.0	4393.7	3755.0	3171.3	2647.0	2170.0	1750.1	1377.2
-45°	6985.1	6194.8	5453.6	4775.9	4134.3	3552.0	3014.6	2509.1	2066.4	1676.4	1317.1
-47.5°	6450.1	5739.4	5068.6	4445.8	3889.7	3341.2	2846.1	2379.0	1951.9	1596.4	1256.9
-50°	5932.6	5288.0	4686.0	4132.8	3616.0	3143.4	2670.7	2235.9	1849.1	1506.9	1190.8
-52.5°	5410.9	4849.3	4314.7	3814.3	3361.9	2933.8	2494.7	2083.3	1737.4	1416.4	1119.0
-55°	4902.5	4427.0	3948.0	3509.3	3100.6	2712.2	2304.8	1945.9	1617.2	1322.0	1043.2
-57.5°	4428.1	4005.9	3598.1	3205.4	2832.0	2472.5	2125.1	1798.9	1498.0	1221.4	975.8
-60°	3959.8	3609.9	3248.7	2897.3	2555.9	2241.9	1948.0	1647.6	1374.3	1118.6	901.9
-62.5°	3529.4	3213.5	2902.4	2582.6	2292.9	2024.5	1764.2	1498.0	1244.0	1025.4	823.3
-65°	3109.8	2832.2	2551.0	2293.9	2042.9	1804.9	1583.0	1341.2	1125.3	927.6	746.6
-67.5°	2700.2	2469.3	2239.7	2009.8	1800.6	1596.9	1393.6	1196.2	1006.1	825.6	680.7
-70°	2329.3	2124.2	1935.9	1753.0	1568.4	1388.0	1224.4	1053.4	882.2	743.8	612.2
-72.5°	1976.0	1815.8	1657.3	1498.2	1350.4	1203.0	1056.3	912.7	783.6	659.8	541.5
-75°	1644.3	1520.3	1399.1	1274.9	1144.5	1016.4	906.4	796.6	682.7	573.4	481.9
-77.5°	1355.7	1253.7	1152.1	1057.6	958.7	862.6	769.8	677.7	585.4	503.3	425.3
-80°	1087.0	1013.0	939.0	863.9	783.8	706.4	641.3	575.6	502.9	433.4	367.3
-82.5°	841.0	790.6	741.9	692.0	637.7	584.0	530.8	477.7	418.8	362.2	318.7
-85°	661.1	622.4	583.1	543.3	501.5	460.3	429.8	398.9	362.3	326.0	290.2
-87.5°	535.7	510.7	485.6	460.3	434.0	407.5	381.0	354.2	323.0	292.0	261.2
-90°	9.6	10.0	10.4	10.8	10.8	10.8	10.8	10.8	11.2	11.6	11.9



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	206.0	170.7	135.3	100.0	64.6	37.7	10.8
87.5°	19.5	18.9	18.0	17.0	15.6	13.7	10.8
85°	26.7	25.5	23.8	21.6	19.0	15.8	10.8
82.5°	33.9	32.0	29.5	26.3	22.3	18.0	10.8
80°	41.9	38.6	35.3	30.9	25.7	20.1	10.8
77.5°	55.7	47.9	41.0	35.6	29.1	22.2	10.8
75°	69.8	62.1	48.1	40.2	32.5	24.3	10.8
72.5°	84.3	76.4	61.4	44.8	35.9	26.4	10.8
70°	100.4	91.0	74.9	50.6	39.3	28.5	10.8
67.5°	124.9	105.9	88.4	62.0	42.8	30.6	10.8
65°	150.2	125.4	102.0	73.3	46.3	32.7	10.8
62.5°	176.1	149.5	115.7	84.6	49.8	34.7	10.8
60°	202.9	174.0	129.5	95.8	53.3	36.7	10.8
57.5°	239.6	198.9	150.5	107.0	61.5	38.7	10.8
55°	278.3	224.2	172.0	118.2	69.6	40.7	10.8
52.5°	317.6	251.3	193.6	129.3	77.6	42.7	10.8
50°	357.7	285.8	215.2	140.3	85.5	44.6	10.8
47.5°	399.7	320.4	236.8	152.6	93.2	46.5	10.8
45°	450.0	355.2	258.4	168.9	100.7	48.3	10.8
42.5°	500.7	390.1	279.9	185.0	108.1	50.1	10.8
40°	551.6	425.0	304.4	200.8	115.2	51.9	10.8
37.5°	602.7	459.8	331.4	216.3	122.2	53.6	10.8
35°	653.8	498.6	358.1	231.3	128.9	55.2	10.8
32.5°	707.6	539.2	384.2	245.7	135.4	56.8	10.8
30°	767.4	579.1	409.7	259.5	141.6	58.4	10.8
27.5°	826.5	618.1	432.9	272.7	147.6	59.9	10.8
25°	884.7	656.2	454.9	285.3	153.3	61.3	10.8
22.5°	941.6	691.4	475.7	297.2	158.7	62.6	10.8
20°	996.9	720.6	495.2	308.3	163.7	63.9	10.8
17.5°	1040.4	747.6	513.5	318.7	168.4	65.1	10.8
15°	1074.2	772.3	530.4	328.3	172.8	66.2	10.8
12.5°	1104.0	794.8	545.9	337.1	176.8	67.2	10.8
10°	1129.9	814.8	559.9	345.0	180.4	68.1	10.8
7.5°	1151.9	832.4	572.3	352.0	183.6	68.9	10.8
5°	1170.0	847.5	583.1	358.1	186.3	69.6	10.8
2.5°	1184.2	860.1	592.2	363.3	188.7	70.2	10.8
0°	1194.5	870.1	599.6	367.4	190.6	70.7	10.8
-2.5°	1223.2	886.3	609.4	373.0	193.5	72.1	10.8
-5°	1247.8	899.8	617.3	377.5	196.0	73.4	10.8
-7.5°	1267.8	910.3	623.3	380.9	198.0	74.5	10.8
-10°	1282.8	917.8	627.3	383.2	199.5	75.5	10.8
-12.5°	1292.6	922.1	629.2	384.4	200.5	76.4	10.8
-15°	1296.8	923.1	629.0	384.5	201.1	77.2	10.8
-17.5°	1295.0	920.8	626.6	383.3	201.1	77.8	10.8
-20°	1287.9	914.9	622.0	381.0	200.6	78.3	10.8



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1276.6	905.4	615.1	377.4	199.7	78.6	10.8
-25°	1260.2	896.1	605.9	372.6	198.2	78.8	10.8
-27.5°	1238.9	884.6	594.4	366.7	196.2	78.9	10.8
-30°	1212.6	869.3	581.0	359.5	193.8	78.8	10.8
-32.5°	1181.4	850.1	568.8	351.0	190.8	78.6	10.8
-35°	1152.2	827.0	554.1	341.4	187.4	78.2	10.8
-37.5°	1121.0	802.2	537.0	330.5	183.5	77.7	10.8
-40°	1084.8	778.4	517.5	318.5	179.1	77.0	10.8
-42.5°	1043.5	751.2	499.3	306.0	174.2	76.2	10.8
-45°	997.4	720.9	482.9	293.7	168.9	75.3	10.8
-47.5°	946.5	687.3	464.7	280.2	163.1	74.2	10.8
-50°	900.2	650.7	444.5	270.6	156.9	72.9	10.8
-52.5°	851.5	611.1	422.5	261.7	150.2	71.6	10.8
-55°	799.1	578.4	398.8	251.7	143.2	70.1	10.8
-57.5°	743.0	545.3	373.3	240.9	135.7	68.5	10.8
-60°	685.3	509.9	346.7	229.1	127.9	66.7	10.8
-62.5°	638.1	472.3	328.2	216.5	123.9	64.8	10.8
-65°	588.3	432.7	308.5	203.0	119.6	62.8	10.8
-67.5°	536.0	397.6	287.6	188.8	115.0	60.7	10.8
-70°	481.3	367.4	265.5	173.8	110.2	58.5	10.8
-72.5°	437.9	335.7	242.4	164.5	105.2	56.2	10.8
-75°	394.6	302.6	218.3	156.3	99.9	53.8	10.8
-77.5°	349.8	268.3	203.7	147.7	94.4	51.3	10.8
-80°	303.5	244.8	190.8	138.7	88.8	48.7	10.8
-82.5°	277.8	227.0	177.5	129.4	82.9	46.1	10.8
-85°	254.4	208.7	163.8	119.9	77.0	43.4	10.8
-87.5°	230.5	189.9	149.7	110.0	70.8	40.6	10.8
-90°	12.3	12.3	12.3	12.3	12.3	11.6	10.8

(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

