

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: P731233 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-80-7F-HEG**

Issue Date: 11/16/2023

Test Information

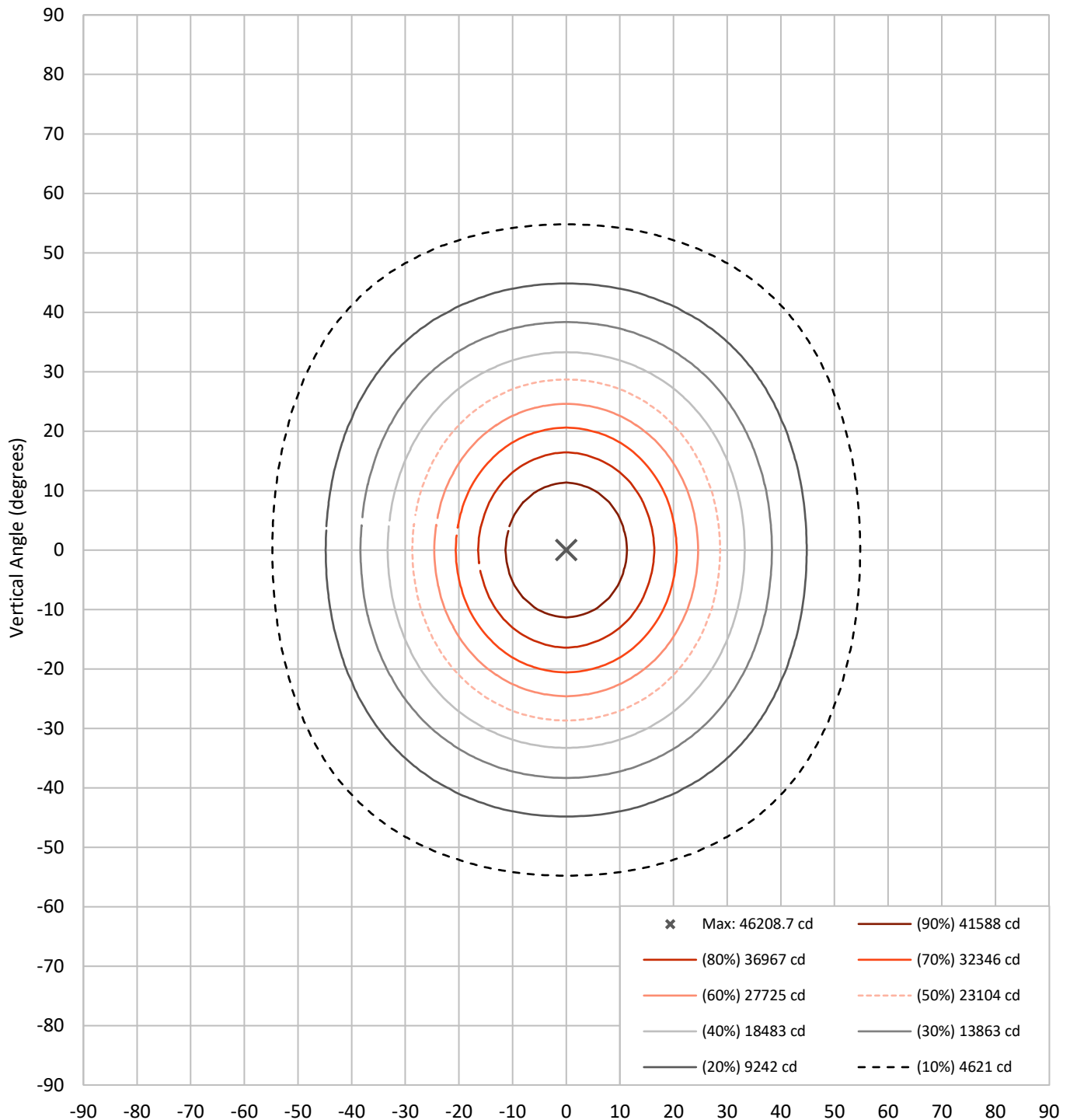
Test Method: LM-79-08
Report Number: P731233 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-57-80-7F-HEG
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 7F BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	52137.5 lumens	Max Intensity:	46208.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	150.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	57.4°H x 57.4°V	Field Angle (10%):	109.4°H x 109.4°V
Beam Lumens:	25677.7 lumens	Field Lumens:	47299.9 lumens
Beam Efficiency:	49.2%	Field Efficiency:	90.7%
Input Watts (W):	345.8		
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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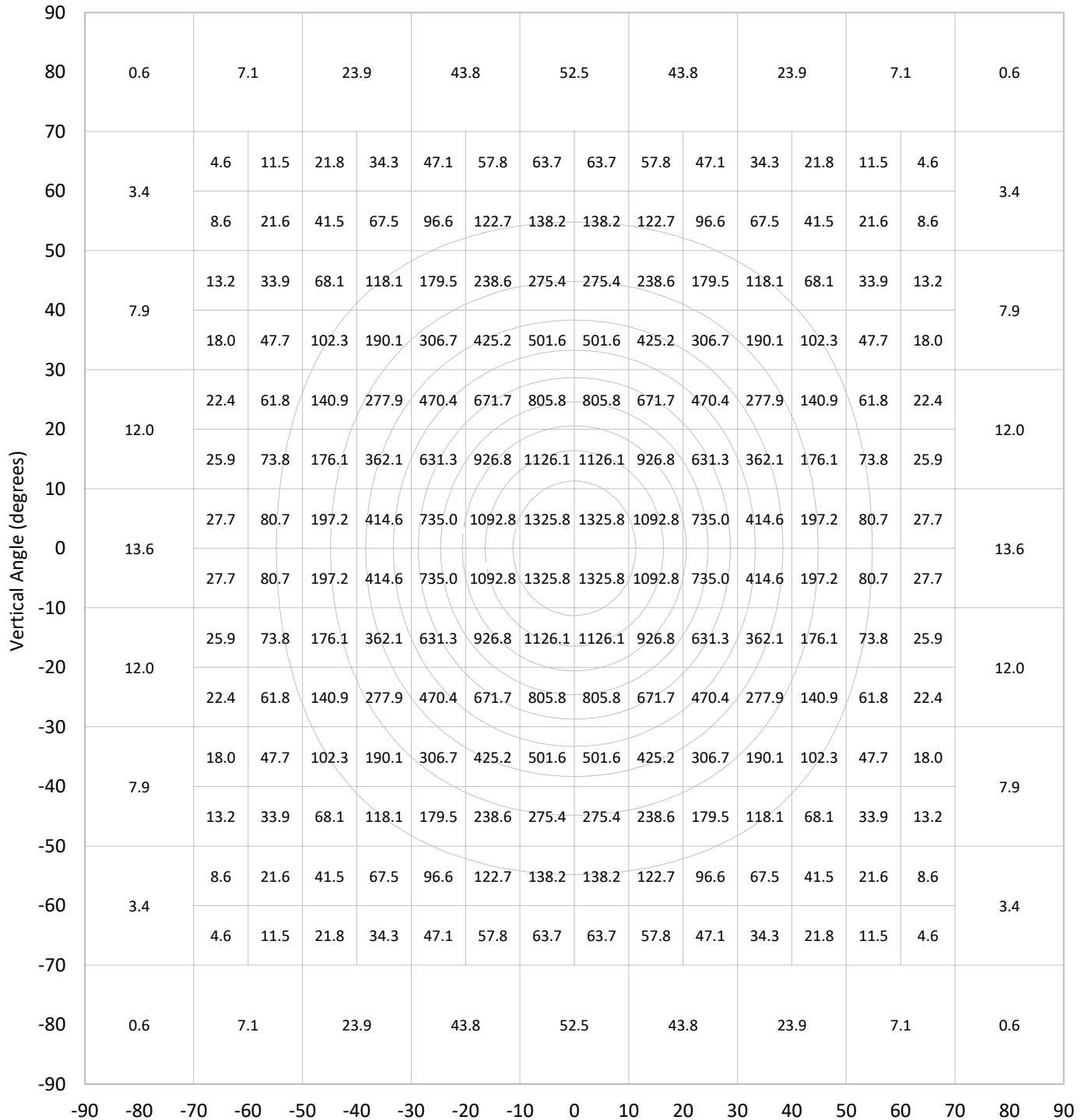
Iso-Candela Plot





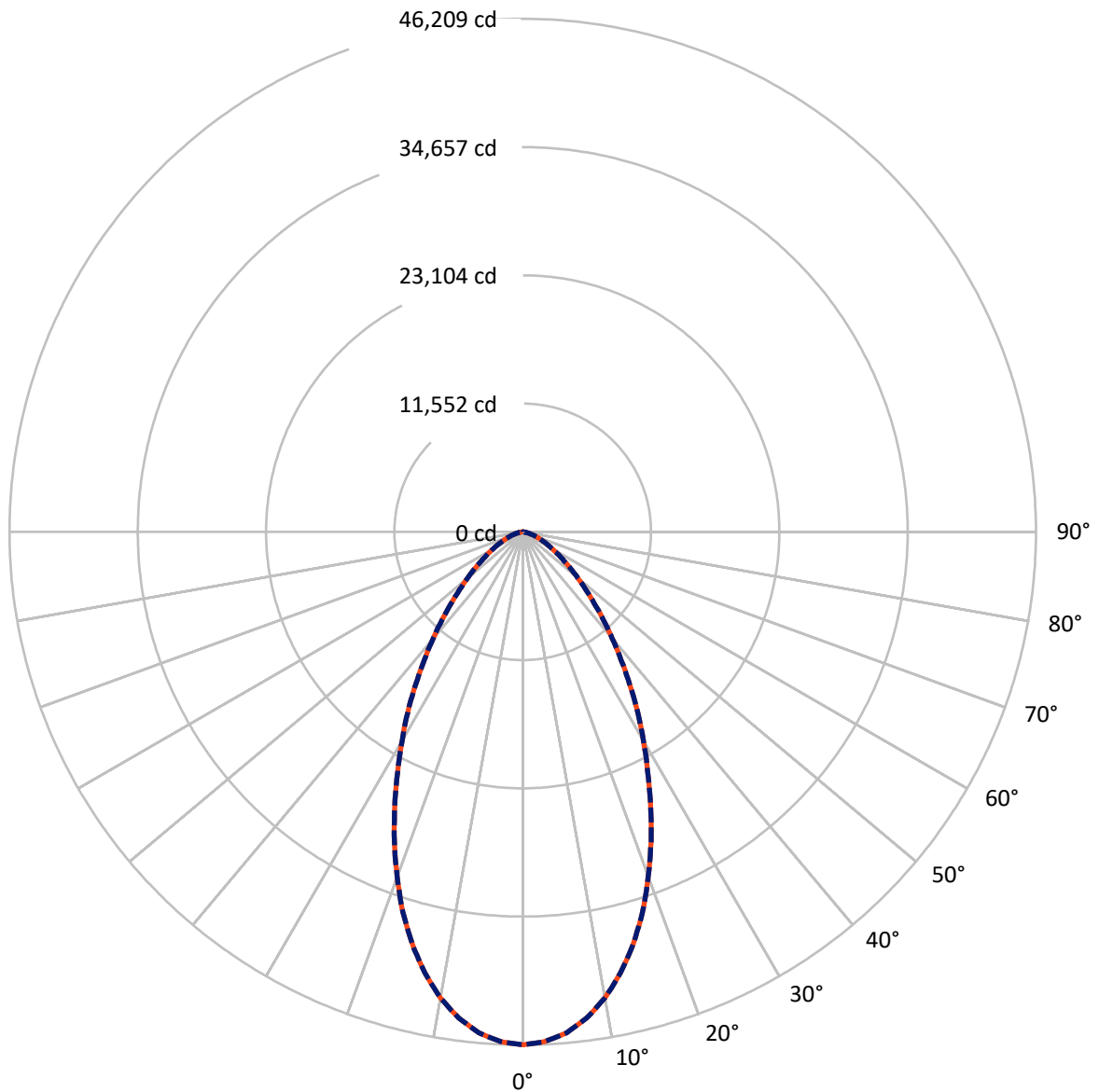
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Lumen Table



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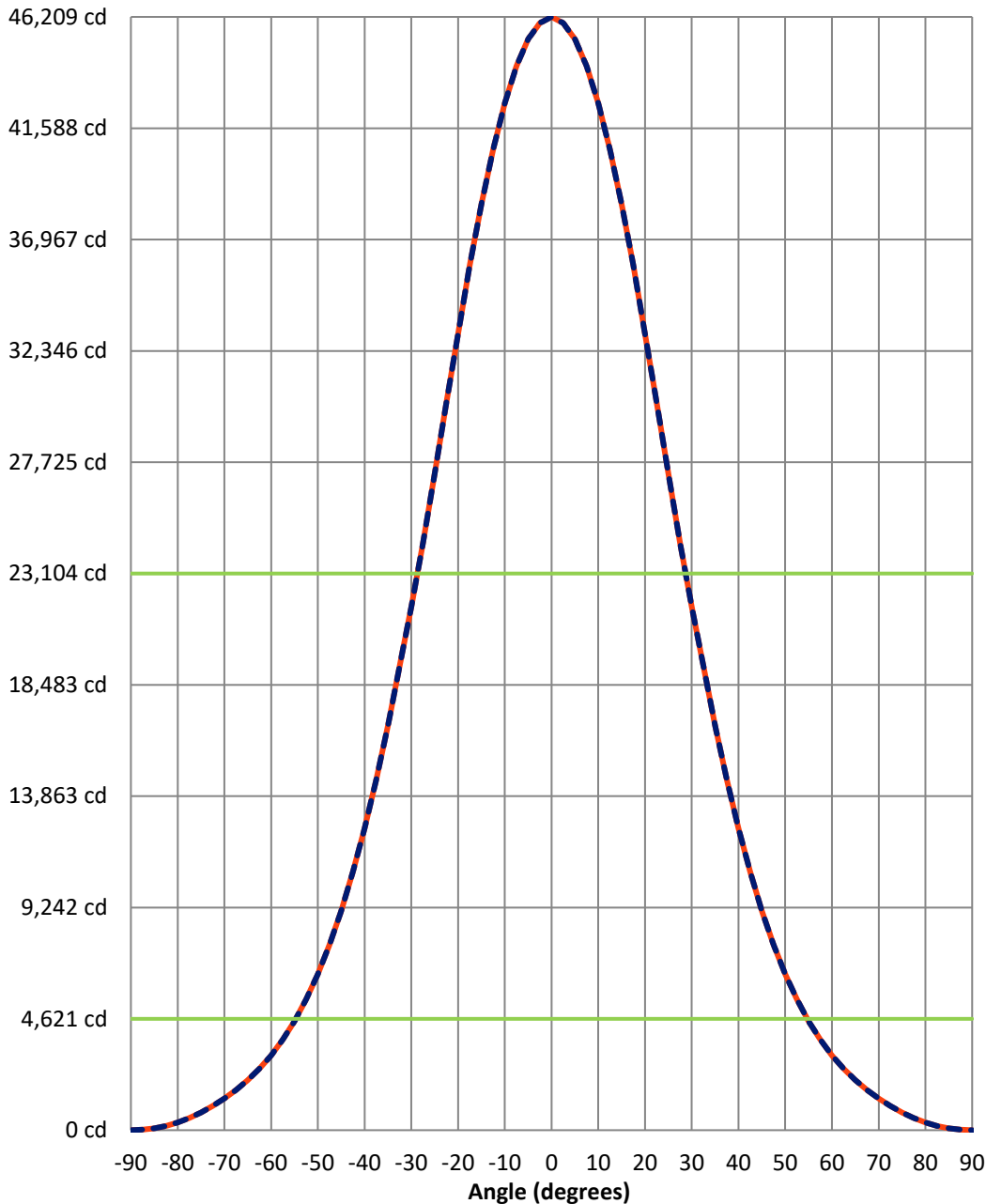
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 57.4°
 V Angle: 57.4°
 Lumens: 25677.7
 Efficiency: 49.2%

Field:
 H Angle: 109.4°
 V Angle: 109.4°
 Lumens: 47299.9
 Efficiency: 90.7%

Spill:
 Lumens: 4837.6
 Efficiency: 9.3%

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



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	1.0	2.0	3.1	4.1	5.1	6.1	7.1	8.0	9.0	9.9
85°	0.0	2.0	4.1	6.1	8.2	10.2	12.2	14.1	16.1	18.0	19.8
82.5°	0.0	3.1	6.1	9.2	12.2	15.2	18.2	21.1	24.8	31.3	37.7
80°	0.0	4.1	8.2	12.2	16.2	20.2	25.1	34.1	42.9	51.6	60.1
77.5°	0.0	5.1	10.2	15.2	20.2	27.5	38.8	49.9	60.9	71.8	86.8
75°	0.0	6.1	12.2	18.2	25.1	38.8	52.3	65.6	80.2	103.8	127.1
72.5°	0.0	7.1	14.1	21.1	34.1	49.9	65.6	84.4	112.4	139.9	167.0
70°	0.0	8.0	16.1	24.8	42.9	60.9	80.2	112.4	144.2	176.0	221.7
67.5°	0.0	9.0	18.0	31.3	51.6	71.8	103.8	139.9	176.0	228.1	279.4
65°	0.0	9.9	19.8	37.7	60.1	86.8	127.1	167.0	221.7	279.4	341.0
62.5°	0.0	10.8	21.7	44.0	68.5	105.9	149.9	202.7	266.6	332.7	412.8
60°	0.0	11.7	23.5	50.1	76.7	124.5	172.3	241.2	310.6	396.3	483.2
57.5°	0.0	12.6	27.4	56.1	90.9	142.7	203.4	278.9	363.4	458.4	562.4
55°	0.0	13.5	31.3	62.0	105.1	160.4	234.8	315.6	417.3	521.9	644.6
52.5°	0.0	14.3	35.1	67.6	118.8	178.9	265.4	360.3	469.7	594.0	724.7
50°	0.0	15.1	38.8	73.1	132.1	203.6	295.0	404.7	523.8	663.9	816.1
47.5°	0.0	15.9	42.3	79.4	145.0	227.4	324.7	447.6	583.8	731.5	906.3
45°	0.0	16.6	45.7	88.7	157.3	250.2	360.1	489.0	641.6	809.3	993.3
42.5°	0.0	17.3	48.9	97.5	169.2	272.2	394.0	533.7	697.1	884.3	1086.8
40°	0.0	18.0	52.0	106.0	183.2	293.1	426.4	580.0	753.6	956.1	1177.9
37.5°	0.0	18.6	54.9	114.0	199.0	313.0	457.1	624.0	814.1	1027.1	1264.8
35°	0.0	19.2	57.7	121.6	214.0	335.3	486.3	665.7	871.4	1100.9	1351.6
32.5°	0.0	19.8	60.3	128.7	228.1	358.1	515.5	704.9	925.4	1170.5	1439.9
30°	0.0	20.3	62.7	135.3	241.3	379.3	546.8	743.3	976.0	1235.6	1522.8
27.5°	0.0	20.8	65.0	141.5	253.5	399.0	575.8	784.2	1025.4	1296.2	1599.9
25°	0.0	21.3	67.0	147.2	264.8	417.2	602.6	821.8	1074.7	1357.1	1671.6
22.5°	0.0	21.7	68.9	152.4	275.0	433.8	627.0	856.2	1119.7	1415.1	1747.3
20°	0.0	22.1	70.6	157.0	284.3	448.7	649.0	887.1	1160.3	1467.4	1815.7
17.5°	0.0	22.4	72.1	161.2	292.5	461.9	668.5	914.6	1196.3	1513.9	1876.6
15°	0.0	22.7	73.4	164.8	299.6	473.4	685.5	938.5	1227.7	1554.4	1929.7
12.5°	0.0	22.9	74.6	167.8	305.6	483.2	699.9	958.9	1254.5	1589.0	1974.9
10°	0.0	23.1	75.5	170.3	310.6	491.2	711.8	975.6	1276.4	1617.3	2012.1
7.5°	0.0	23.3	76.2	172.3	314.5	497.5	721.1	988.7	1293.6	1639.5	2041.2
5°	0.0	23.4	76.7	173.7	317.3	502.0	727.7	998.0	1305.9	1655.4	2062.0
2.5°	0.0	23.5	77.0	174.5	318.9	504.7	731.7	1003.6	1313.2	1664.9	2074.5
0°	0.0	23.5	77.1	174.8	319.5	505.6	733.0	1005.5	1315.7	1668.1	2078.7
-2.5°	0.0	23.5	77.0	174.5	318.9	504.7	731.7	1003.6	1313.2	1664.9	2074.5
-5°	0.0	23.4	76.7	173.7	317.3	502.0	727.7	998.0	1305.9	1655.4	2062.0
-7.5°	0.0	23.3	76.2	172.3	314.5	497.5	721.1	988.7	1293.6	1639.5	2041.2
-10°	0.0	23.1	75.5	170.3	310.6	491.2	711.8	975.6	1276.4	1617.3	2012.1
-12.5°	0.0	22.9	74.6	167.8	305.6	483.2	699.9	958.9	1254.5	1589.0	1974.9
-15°	0.0	22.7	73.4	164.8	299.6	473.4	685.5	938.5	1227.7	1554.4	1929.7
-17.5°	0.0	22.4	72.1	161.2	292.5	461.9	668.5	914.6	1196.3	1513.9	1876.6
-20°	0.0	22.1	70.6	157.0	284.3	448.7	649.0	887.1	1160.3	1467.4	1815.7



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 CATALOG NUMBER: EPH-LS-08-0320N-57-80-7F-HEG

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	21.7	68.9	152.4	275.0	433.8	627.0	856.2	1119.7	1415.1	1747.3
-25°	0.0	21.3	67.0	147.2	264.8	417.2	602.6	821.8	1074.7	1357.1	1671.6
-27.5°	0.0	20.8	65.0	141.5	253.5	399.0	575.8	784.2	1025.4	1296.2	1599.9
-30°	0.0	20.3	62.7	135.3	241.3	379.3	546.8	743.3	976.0	1235.6	1522.8
-32.5°	0.0	19.8	60.3	128.7	228.1	358.1	515.5	704.9	925.4	1170.5	1439.9
-35°	0.0	19.2	57.7	121.6	214.0	335.3	486.3	665.7	871.4	1100.9	1351.6
-37.5°	0.0	18.6	54.9	114.0	199.0	313.0	457.1	624.0	814.1	1027.1	1264.8
-40°	0.0	18.0	52.0	106.0	183.2	293.1	426.4	580.0	753.6	956.1	1177.9
-42.5°	0.0	17.3	48.9	97.5	169.2	272.2	394.0	533.7	697.1	884.3	1086.8
-45°	0.0	16.6	45.7	88.7	157.3	250.2	360.1	489.0	641.6	809.3	993.3
-47.5°	0.0	15.9	42.3	79.4	145.0	227.4	324.7	447.6	583.8	731.5	906.3
-50°	0.0	15.1	38.8	73.1	132.1	203.6	295.0	404.7	523.8	663.9	816.1
-52.5°	0.0	14.3	35.1	67.6	118.8	178.9	265.4	360.3	469.7	594.0	724.7
-55°	0.0	13.5	31.3	62.0	105.1	160.4	234.8	315.6	417.3	521.9	644.6
-57.5°	0.0	12.6	27.4	56.1	90.9	142.7	203.4	278.9	363.4	458.4	562.4
-60°	0.0	11.7	23.5	50.1	76.7	124.5	172.3	241.2	310.6	396.3	483.2
-62.5°	0.0	10.8	21.7	44.0	68.5	105.9	149.9	202.7	266.6	332.7	412.8
-65°	0.0	9.9	19.8	37.7	60.1	86.8	127.1	167.0	221.7	279.4	341.0
-67.5°	0.0	9.0	18.0	31.3	51.6	71.8	103.8	139.9	176.0	228.1	279.4
-70°	0.0	8.0	16.1	24.8	42.9	60.9	80.2	112.4	144.2	176.0	221.7
-72.5°	0.0	7.1	14.1	21.1	34.1	49.9	65.6	84.4	112.4	139.9	167.0
-75°	0.0	6.1	12.2	18.2	25.1	38.8	52.3	65.6	80.2	103.8	127.1
-77.5°	0.0	5.1	10.2	15.2	20.2	27.5	38.8	49.9	60.9	71.8	86.8
-80°	0.0	4.1	8.2	12.2	16.2	20.2	25.1	34.1	42.9	51.6	60.1
-82.5°	0.0	3.1	6.1	9.2	12.2	15.2	18.2	21.1	24.8	31.3	37.7
-85°	0.0	2.0	4.1	6.1	8.2	10.2	12.2	14.1	16.1	18.0	19.8
-87.5°	0.0	1.0	2.0	3.1	4.1	5.1	6.1	7.1	8.0	9.0	9.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731233 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-7F-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.8	11.7	12.6	13.5	14.3	15.1	15.9	16.6	17.3	18.0	18.6
85°	21.7	23.5	27.4	31.3	35.1	38.8	42.3	45.7	48.9	52.0	54.9
82.5°	44.0	50.1	56.1	62.0	67.6	73.1	79.4	88.7	97.5	106.0	114.0
80°	68.5	76.7	90.9	105.1	118.8	132.1	145.0	157.3	169.2	183.2	199.0
77.5°	105.9	124.5	142.7	160.4	178.9	203.6	227.4	250.2	272.2	293.1	313.0
75°	149.9	172.3	203.4	234.8	265.4	295.0	324.7	360.1	394.0	426.4	457.1
72.5°	202.7	241.2	278.9	315.6	360.3	404.7	447.6	489.0	533.7	580.0	624.0
70°	266.6	310.6	363.4	417.3	469.7	523.8	583.8	641.6	697.1	753.6	814.1
67.5°	332.7	396.3	458.4	521.9	594.0	663.9	731.5	809.3	884.3	956.1	1027.1
65°	412.8	483.2	562.4	644.6	724.7	816.1	906.3	993.3	1086.8	1177.9	1264.8
62.5°	491.5	582.8	675.2	772.0	877.5	980.0	1089.5	1198.7	1303.7	1416.5	1525.7
60°	582.8	685.5	796.6	914.6	1032.9	1160.3	1283.8	1415.1	1545.7	1671.6	1811.1
57.5°	675.2	796.6	927.0	1061.3	1203.0	1344.5	1496.7	1644.0	1805.6	1964.6	2122.5
55°	772.0	914.6	1061.3	1217.4	1377.2	1546.1	1717.2	1902.5	2081.9	2280.8	2471.3
52.5°	877.5	1032.9	1203.0	1377.2	1562.7	1756.1	1961.2	2173.0	2395.4	2618.1	2854.5
50°	980.0	1160.3	1344.5	1546.1	1756.1	1980.9	2218.9	2464.8	2725.5	2989.8	3274.7
47.5°	1089.5	1283.8	1496.7	1717.2	1961.2	2218.9	2488.1	2779.6	3071.8	3409.0	3739.1
45°	1198.7	1415.1	1644.0	1902.5	2173.0	2464.8	2779.6	3099.3	3476.6	3853.0	4254.8
42.5°	1303.7	1545.7	1805.6	2081.9	2395.4	2725.5	3071.8	3476.6	3892.3	4334.6	4811.6
40°	1416.5	1671.6	1964.6	2280.8	2618.1	2989.8	3409.0	3853.0	4334.6	4860.7	5406.9
37.5°	1525.7	1811.1	2122.5	2471.3	2854.5	3274.7	3739.1	4254.8	4811.6	5406.9	6062.8
35°	1629.3	1943.7	2289.8	2667.8	3080.1	3569.6	4096.5	4665.0	5306.8	6004.3	6738.2
32.5°	1737.0	2069.1	2448.2	2865.7	3336.1	3862.2	4440.0	5108.6	5829.9	6598.3	7455.7
30°	1844.0	2203.8	2603.7	3052.1	3581.4	4164.5	4815.6	5542.8	6344.1	7241.6	8204.0
27.5°	1943.7	2330.8	2763.6	3253.7	3818.0	4447.9	5184.0	5995.2	6889.7	7871.3	8947.0
25°	2035.8	2448.2	2911.7	3450.0	4061.4	4750.8	5540.4	6417.4	7421.5	8523.7	9734.2
22.5°	2126.5	2556.0	3047.3	3630.0	4284.9	5043.2	5901.8	6864.1	7944.2	9133.6	10490.0
20°	2214.5	2667.8	3185.4	3797.5	4487.8	5308.9	6230.8	7280.9	8458.8	9778.5	11232.9
17.5°	2292.8	2767.4	3318.5	3963.8	4699.9	5562.9	6533.9	7655.3	8921.8	10360.2	11927.7
15°	2361.2	2854.5	3434.9	4109.4	4891.6	5801.5	6837.8	8025.7	9367.7	10890.3	12546.0
12.5°	2419.5	2928.7	3534.3	4233.7	5055.5	6005.7	7098.1	8349.2	9776.0	11380.3	13145.8
10°	2467.5	2989.8	3616.1	4336.2	5190.7	6174.3	7313.4	8617.0	10114.7	11787.5	13645.3
7.5°	2504.9	3037.6	3680.1	4416.4	5296.6	6306.5	7482.2	8827.4	10381.0	12108.2	14039.5
5°	2531.8	3071.8	3726.0	4474.0	5372.6	6401.4	7603.7	8978.8	10572.8	12339.6	14324.2
2.5°	2547.9	3092.4	3753.6	4508.6	5418.4	6458.6	7676.9	9070.1	10688.6	12479.3	14496.4
0°	2553.3	3099.3	3762.8	4520.2	5433.7	6477.7	7701.3	9100.6	10727.3	12526.0	14554.0
-2.5°	2547.9	3092.4	3753.6	4508.6	5418.4	6458.6	7676.9	9070.1	10688.6	12479.3	14496.4
-5°	2531.8	3071.8	3726.0	4474.0	5372.6	6401.4	7603.7	8978.8	10572.8	12339.6	14324.2
-7.5°	2504.9	3037.6	3680.1	4416.4	5296.6	6306.5	7482.2	8827.4	10381.0	12108.2	14039.5
-10°	2467.5	2989.8	3616.1	4336.2	5190.7	6174.3	7313.4	8617.0	10114.7	11787.5	13645.3
-12.5°	2419.5	2928.7	3534.3	4233.7	5055.5	6005.7	7098.1	8349.2	9776.0	11380.3	13145.8
-15°	2361.2	2854.5	3434.9	4109.4	4891.6	5801.5	6837.8	8025.7	9367.7	10890.3	12546.0
-17.5°	2292.8	2767.4	3318.5	3963.8	4699.9	5562.9	6533.9	7655.3	8921.8	10360.2	11927.7
-20°	2214.5	2667.8	3185.4	3797.5	4487.8	5308.9	6230.8	7280.9	8458.8	9778.5	11232.9



REPORT NUMBER: P731233 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-7F-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2126.5	2556.0	3047.3	3630.0	4284.9	5043.2	5901.8	6864.1	7944.2	9133.6	10490.0
-25°	2035.8	2448.2	2911.7	3450.0	4061.4	4750.8	5540.4	6417.4	7421.5	8523.7	9734.2
-27.5°	1943.7	2330.8	2763.6	3253.7	3818.0	4447.9	5184.0	5995.2	6889.7	7871.3	8947.0
-30°	1844.0	2203.8	2603.7	3052.1	3581.4	4164.5	4815.6	5542.8	6344.1	7241.6	8204.0
-32.5°	1737.0	2069.1	2448.2	2865.7	3336.1	3862.2	4440.0	5108.6	5829.9	6598.3	7455.7
-35°	1629.3	1943.7	2289.8	2667.8	3080.1	3569.6	4096.5	4665.0	5306.8	6004.3	6738.2
-37.5°	1525.7	1811.1	2122.5	2471.3	2854.5	3274.7	3739.1	4254.8	4811.6	5406.9	6062.8
-40°	1416.5	1671.6	1964.6	2280.8	2618.1	2989.8	3409.0	3853.0	4334.6	4860.7	5406.9
-42.5°	1303.7	1545.7	1805.6	2081.9	2395.4	2725.5	3071.8	3476.6	3892.3	4334.6	4811.6
-45°	1198.7	1415.1	1644.0	1902.5	2173.0	2464.8	2779.6	3099.3	3476.6	3853.0	4254.8
-47.5°	1089.5	1283.8	1496.7	1717.2	1961.2	2218.9	2488.1	2779.6	3071.8	3409.0	3739.1
-50°	980.0	1160.3	1344.5	1546.1	1756.1	1980.9	2218.9	2464.8	2725.5	2989.8	3274.7
-52.5°	877.5	1032.9	1203.0	1377.2	1562.7	1756.1	1961.2	2173.0	2395.4	2618.1	2854.5
-55°	772.0	914.6	1061.3	1217.4	1377.2	1546.1	1717.2	1902.5	2081.9	2280.8	2471.3
-57.5°	675.2	796.6	927.0	1061.3	1203.0	1344.5	1496.7	1644.0	1805.6	1964.6	2122.5
-60°	582.8	685.5	796.6	914.6	1032.9	1160.3	1283.8	1415.1	1545.7	1671.6	1811.1
-62.5°	491.5	582.8	675.2	772.0	877.5	980.0	1089.5	1198.7	1303.7	1416.5	1525.7
-65°	412.8	483.2	562.4	644.6	724.7	816.1	906.3	993.3	1086.8	1177.9	1264.8
-67.5°	332.7	396.3	458.4	521.9	594.0	663.9	731.5	809.3	884.3	956.1	1027.1
-70°	266.6	310.6	363.4	417.3	469.7	523.8	583.8	641.6	697.1	753.6	814.1
-72.5°	202.7	241.2	278.9	315.6	360.3	404.7	447.6	489.0	533.7	580.0	624.0
-75°	149.9	172.3	203.4	234.8	265.4	295.0	324.7	360.1	394.0	426.4	457.1
-77.5°	105.9	124.5	142.7	160.4	178.9	203.6	227.4	250.2	272.2	293.1	313.0
-80°	68.5	76.7	90.9	105.1	118.8	132.1	145.0	157.3	169.2	183.2	199.0
-82.5°	44.0	50.1	56.1	62.0	67.6	73.1	79.4	88.7	97.5	106.0	114.0
-85°	21.7	23.5	27.4	31.3	35.1	38.8	42.3	45.7	48.9	52.0	54.9
-87.5°	10.8	11.7	12.6	13.5	14.3	15.1	15.9	16.6	17.3	18.0	18.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731233 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-7F-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.2	19.8	20.3	20.8	21.3	21.7	22.1	22.4	22.7	22.9	23.1
85°	57.7	60.3	62.7	65.0	67.0	68.9	70.6	72.1	73.4	74.6	75.5
82.5°	121.6	128.7	135.3	141.5	147.2	152.4	157.0	161.2	164.8	167.8	170.3
80°	214.0	228.1	241.3	253.5	264.8	275.0	284.3	292.5	299.6	305.6	310.6
77.5°	335.3	358.1	379.3	399.0	417.2	433.8	448.7	461.9	473.4	483.2	491.2
75°	486.3	515.5	546.8	575.8	602.6	627.0	649.0	668.5	685.5	699.9	711.8
72.5°	665.7	704.9	743.3	784.2	821.8	856.2	887.1	914.6	938.5	958.9	975.6
70°	871.4	925.4	976.0	1025.4	1074.7	1119.7	1160.3	1196.3	1227.7	1254.5	1276.4
67.5°	1100.9	1170.5	1235.6	1296.2	1357.1	1415.1	1467.4	1513.9	1554.4	1589.0	1617.3
65°	1351.6	1439.9	1522.8	1599.9	1671.6	1747.3	1815.7	1876.6	1929.7	1974.9	2012.1
62.5°	1629.3	1737.0	1844.0	1943.7	2035.8	2126.5	2214.5	2292.8	2361.2	2419.5	2467.5
60°	1943.7	2069.1	2203.8	2330.8	2448.2	2556.0	2667.8	2767.4	2854.5	2928.7	2989.8
57.5°	2289.8	2448.2	2603.7	2763.6	2911.7	3047.3	3185.4	3318.5	3434.9	3534.3	3616.1
55°	2667.8	2865.7	3052.1	3253.7	3450.0	3630.0	3797.5	3963.8	4109.4	4233.7	4336.2
52.5°	3080.1	3336.1	3581.4	3818.0	4061.4	4284.9	4487.8	4699.9	4891.6	5055.5	5190.7
50°	3569.6	3862.2	4164.5	4447.9	4750.8	5043.2	5308.9	5562.9	5801.5	6005.7	6174.3
47.5°	4096.5	4440.0	4815.6	5184.0	5540.4	5901.8	6230.8	6533.9	6837.8	7098.1	7313.4
45°	4665.0	5108.6	5542.8	5995.2	6417.4	6864.1	7280.9	7655.3	8025.7	8349.2	8617.0
42.5°	5306.8	5829.9	6344.1	6889.7	7421.5	7944.2	8458.8	8921.8	9367.7	9776.0	10114.7
40°	6004.3	6598.3	7241.6	7871.3	8523.7	9133.6	9778.5	10360.2	10890.3	11380.3	11787.5
37.5°	6738.2	7455.7	8204.0	8947.0	9734.2	10490.0	11232.9	11927.7	12546.0	13145.8	13645.3
35°	7527.6	8372.2	9222.0	10142.9	11041.4	11938.0	12795.0	13640.7	14393.0	15095.3	15695.6
32.5°	8372.2	9322.8	10349.8	11393.4	12418.9	13488.6	14491.1	15492.2	16391.6	17213.3	17936.6
30°	9222.0	10349.8	11511.8	12680.3	13913.2	15126.8	16316.0	17468.0	18545.4	19484.8	20272.2
27.5°	10142.9	11393.4	12680.3	14056.2	15453.2	16825.1	18236.7	19533.5	20698.2	21719.8	22648.7
25°	11041.4	12418.9	13913.2	15453.2	17013.6	18628.5	20140.9	21537.1	22885.5	24088.1	25173.0
22.5°	11938.0	13488.6	15126.8	16825.1	18628.5	20346.3	21984.9	23608.7	25152.6	26583.1	27820.2
20°	12795.0	14491.1	16316.0	18236.7	20140.9	21984.9	23854.0	25712.7	27469.6	29076.5	30456.2
17.5°	13640.7	15492.2	17468.0	19533.5	21537.1	23608.7	25712.7	27776.7	29727.8	31456.7	32955.1
15°	14393.0	16391.6	18545.4	20698.2	22885.5	25152.6	27469.6	29727.8	31799.9	33691.5	35371.3
12.5°	15095.3	17213.3	19484.8	21719.8	24088.1	26583.1	29076.5	31456.7	33691.5	35779.2	37463.1
10°	15695.6	17936.6	20272.2	22648.7	25173.0	27820.2	30456.2	32955.1	35371.3	37463.1	39299.4
7.5°	16170.4	18510.3	20898.9	23391.5	26064.3	28833.1	31554.3	34194.7	36679.3	38872.5	40715.0
5°	16514.0	18926.3	21354.6	23933.5	26717.6	29579.9	32370.1	35125.6	37629.9	39889.6	41773.7
2.5°	16722.0	19178.6	21631.4	24263.5	27116.7	30038.0	32873.4	35704.7	38228.4	40496.0	42407.2
0°	16791.6	19263.1	21724.3	24374.4	27251.0	30192.5	33043.7	35901.5	38433.2	40696.2	42625.4
-2.5°	16722.0	19178.6	21631.4	24263.5	27116.7	30038.0	32873.4	35704.7	38228.4	40496.0	42407.2
-5°	16514.0	18926.3	21354.6	23933.5	26717.6	29579.9	32370.1	35125.6	37629.9	39889.6	41773.7
-7.5°	16170.4	18510.3	20898.9	23391.5	26064.3	28833.1	31554.3	34194.7	36679.3	38872.5	40715.0
-10°	15695.6	17936.6	20272.2	22648.7	25173.0	27820.2	30456.2	32955.1	35371.3	37463.1	39299.4
-12.5°	15095.3	17213.3	19484.8	21719.8	24088.1	26583.1	29076.5	31456.7	33691.5	35779.2	37463.1
-15°	14393.0	16391.6	18545.4	20698.2	22885.5	25152.6	27469.6	29727.8	31799.9	33691.5	35371.3
-17.5°	13640.7	15492.2	17468.0	19533.5	21537.1	23608.7	25712.7	27776.7	29727.8	31456.7	32955.1
-20°	12795.0	14491.1	16316.0	18236.7	20140.9	21984.9	23854.0	25712.7	27469.6	29076.5	30456.2



REPORT NUMBER: P731233 (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°
-22.5°	11938.0	13488.6	15126.8	16825.1	18628.5	20346.3	21984.9	23608.7	25152.6	26583.1	27820.2
-25°	11041.4	12418.9	13913.2	15453.2	17013.6	18628.5	20140.9	21537.1	22885.5	24088.1	25173.0
-27.5°	10142.9	11393.4	12680.3	14056.2	15453.2	16825.1	18236.7	19533.5	20698.2	21719.8	22648.7
-30°	9222.0	10349.8	11511.8	12680.3	13913.2	15126.8	16316.0	17468.0	18545.4	19484.8	20272.2
-32.5°	8372.2	9322.8	10349.8	11393.4	12418.9	13488.6	14491.1	15492.2	16391.6	17213.3	17936.6
-35°	7527.6	8372.2	9222.0	10142.9	11041.4	11938.0	12795.0	13640.7	14393.0	15095.3	15695.6
-37.5°	6738.2	7455.7	8204.0	8947.0	9734.2	10490.0	11232.9	11927.7	12546.0	13145.8	13645.3
-40°	6004.3	6598.3	7241.6	7871.3	8523.7	9133.6	9778.5	10360.2	10890.3	11380.3	11787.5
-42.5°	5306.8	5829.9	6344.1	6889.7	7421.5	7944.2	8458.8	8921.8	9367.7	9776.0	10114.7
-45°	4665.0	5108.6	5542.8	5995.2	6417.4	6864.1	7280.9	7655.3	8025.7	8349.2	8617.0
-47.5°	4096.5	4440.0	4815.6	5184.0	5540.4	5901.8	6230.8	6533.9	6837.8	7098.1	7313.4
-50°	3569.6	3862.2	4164.5	4447.9	4750.8	5043.2	5308.9	5562.9	5801.5	6005.7	6174.3
-52.5°	3080.1	3336.1	3581.4	3818.0	4061.4	4284.9	4487.8	4699.9	4891.6	5055.5	5190.7
-55°	2667.8	2865.7	3052.1	3253.7	3450.0	3630.0	3797.5	3963.8	4109.4	4233.7	4336.2
-57.5°	2289.8	2448.2	2603.7	2763.6	2911.7	3047.3	3185.4	3318.5	3434.9	3534.3	3616.1
-60°	1943.7	2069.1	2203.8	2330.8	2448.2	2556.0	2667.8	2767.4	2854.5	2928.7	2989.8
-62.5°	1629.3	1737.0	1844.0	1943.7	2035.8	2126.5	2214.5	2292.8	2361.2	2419.5	2467.5
-65°	1351.6	1439.9	1522.8	1599.9	1671.6	1747.3	1815.7	1876.6	1929.7	1974.9	2012.1
-67.5°	1100.9	1170.5	1235.6	1296.2	1357.1	1415.1	1467.4	1513.9	1554.4	1589.0	1617.3
-70°	871.4	925.4	976.0	1025.4	1074.7	1119.7	1160.3	1196.3	1227.7	1254.5	1276.4
-72.5°	665.7	704.9	743.3	784.2	821.8	856.2	887.1	914.6	938.5	958.9	975.6
-75°	486.3	515.5	546.8	575.8	602.6	627.0	649.0	668.5	685.5	699.9	711.8
-77.5°	335.3	358.1	379.3	399.0	417.2	433.8	448.7	461.9	473.4	483.2	491.2
-80°	214.0	228.1	241.3	253.5	264.8	275.0	284.3	292.5	299.6	305.6	310.6
-82.5°	121.6	128.7	135.3	141.5	147.2	152.4	157.0	161.2	164.8	167.8	170.3
-85°	57.7	60.3	62.7	65.0	67.0	68.9	70.6	72.1	73.4	74.6	75.5
-87.5°	19.2	19.8	20.3	20.8	21.3	21.7	22.1	22.4	22.7	22.9	23.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731233 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-7F-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.3	23.4	23.5	23.5	23.5	23.4	23.3	23.1	22.9	22.7	22.4
85°	76.2	76.7	77.0	77.1	77.0	76.7	76.2	75.5	74.6	73.4	72.1
82.5°	172.3	173.7	174.5	174.8	174.5	173.7	172.3	170.3	167.8	164.8	161.2
80°	314.5	317.3	318.9	319.5	318.9	317.3	314.5	310.6	305.6	299.6	292.5
77.5°	497.5	502.0	504.7	505.6	504.7	502.0	497.5	491.2	483.2	473.4	461.9
75°	721.1	727.7	731.7	733.0	731.7	727.7	721.1	711.8	699.9	685.5	668.5
72.5°	988.7	998.0	1003.6	1005.5	1003.6	998.0	988.7	975.6	958.9	938.5	914.6
70°	1293.6	1305.9	1313.2	1315.7	1313.2	1305.9	1293.6	1276.4	1254.5	1227.7	1196.3
67.5°	1639.5	1655.4	1664.9	1668.1	1664.9	1655.4	1639.5	1617.3	1589.0	1554.4	1513.9
65°	2041.2	2062.0	2074.5	2078.7	2074.5	2062.0	2041.2	2012.1	1974.9	1929.7	1876.6
62.5°	2504.9	2531.8	2547.9	2553.3	2547.9	2531.8	2504.9	2467.5	2419.5	2361.2	2292.8
60°	3037.6	3071.8	3092.4	3099.3	3092.4	3071.8	3037.6	2989.8	2928.7	2854.5	2767.4
57.5°	3680.1	3726.0	3753.6	3762.8	3753.6	3726.0	3680.1	3616.1	3534.3	3434.9	3318.5
55°	4416.4	4474.0	4508.6	4520.2	4508.6	4474.0	4416.4	4336.2	4233.7	4109.4	3963.8
52.5°	5296.6	5372.6	5418.4	5433.7	5418.4	5372.6	5296.6	5190.7	5055.5	4891.6	4699.9
50°	6306.5	6401.4	6458.6	6477.7	6458.6	6401.4	6306.5	6174.3	6005.7	5801.5	5562.9
47.5°	7482.2	7603.7	7676.9	7701.3	7676.9	7603.7	7482.2	7313.4	7098.1	6837.8	6533.9
45°	8827.4	8978.8	9070.1	9100.6	9070.1	8978.8	8827.4	8617.0	8349.2	8025.7	7655.3
42.5°	10381.0	10572.8	10688.6	10727.3	10688.6	10572.8	10381.0	10114.7	9776.0	9367.7	8921.8
40°	12108.2	12339.6	12479.3	12526.0	12479.3	12339.6	12108.2	11787.5	11380.3	10890.3	10360.2
37.5°	14039.5	14324.2	14496.4	14554.0	14496.4	14324.2	14039.5	13645.3	13145.8	12546.0	11927.7
35°	16170.4	16514.0	16722.0	16791.6	16722.0	16514.0	16170.4	15695.6	15095.3	14393.0	13640.7
32.5°	18510.3	18926.3	19178.6	19263.1	19178.6	18926.3	18510.3	17936.6	17213.3	16391.6	15492.2
30°	20898.9	21354.6	21631.4	21724.3	21631.4	21354.6	20898.9	20272.2	19484.8	18545.4	17468.0
27.5°	23391.5	23933.5	24263.5	24374.4	24263.5	23933.5	23391.5	22648.7	21719.8	20698.2	19533.5
25°	26064.3	26717.6	27116.7	27251.0	27116.7	26717.6	26064.3	25173.0	24088.1	22885.5	21537.1
22.5°	28833.1	29579.9	30038.0	30192.5	30038.0	29579.9	28833.1	27820.2	26583.1	25152.6	23608.7
20°	31554.3	32370.1	32873.4	33043.7	32873.4	32370.1	31554.3	30456.2	29076.5	27469.6	25712.7
17.5°	34194.7	35125.6	35704.7	35901.5	35704.7	35125.6	34194.7	32955.1	31456.7	29727.8	27776.7
15°	36679.3	37629.9	38228.4	38433.2	38228.4	37629.9	36679.3	35371.3	33691.5	31799.9	29727.8
12.5°	38872.5	39889.6	40496.0	40696.2	40496.0	39889.6	38872.5	37463.1	35779.2	33691.5	31456.7
10°	40715.0	41773.7	42407.2	42625.4	42407.2	41773.7	40715.0	39299.4	37463.1	35371.3	32955.1
7.5°	42201.9	43280.3	43950.4	44166.2	43950.4	43280.3	42201.9	40715.0	38872.5	36679.3	34194.7
5°	43280.3	44397.9	45046.7	45286.8	45046.7	44397.9	43280.3	41773.7	39889.6	37629.9	35125.6
2.5°	43950.4	45046.7	45722.4	45951.8	45722.4	45046.7	43950.4	42407.2	40496.0	38228.4	35704.7
0°	44166.2	45286.8	45951.8	46208.7	45951.8	45286.8	44166.2	42625.4	40696.2	38433.2	35901.5
-2.5°	43950.4	45046.7	45722.4	45951.8	45722.4	45046.7	43950.4	42407.2	40496.0	38228.4	35704.7
-5°	43280.3	44397.9	45046.7	45286.8	45046.7	44397.9	43280.3	41773.7	39889.6	37629.9	35125.6
-7.5°	42201.9	43280.3	43950.4	44166.2	43950.4	43280.3	42201.9	40715.0	38872.5	36679.3	34194.7
-10°	40715.0	41773.7	42407.2	42625.4	42407.2	41773.7	40715.0	39299.4	37463.1	35371.3	32955.1
-12.5°	38872.5	39889.6	40496.0	40696.2	40496.0	39889.6	38872.5	37463.1	35779.2	33691.5	31456.7
-15°	36679.3	37629.9	38228.4	38433.2	38228.4	37629.9	36679.3	35371.3	33691.5	31799.9	29727.8
-17.5°	34194.7	35125.6	35704.7	35901.5	35704.7	35125.6	34194.7	32955.1	31456.7	29727.8	27776.7
-20°	31554.3	32370.1	32873.4	33043.7	32873.4	32370.1	31554.3	30456.2	29076.5	27469.6	25712.7



REPORT NUMBER: P731233 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-7F-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	28833.1	29579.9	30038.0	30192.5	30038.0	29579.9	28833.1	27820.2	26583.1	25152.6	23608.7
-25°	26064.3	26717.6	27116.7	27251.0	27116.7	26717.6	26064.3	25173.0	24088.1	22885.5	21537.1
-27.5°	23391.5	23933.5	24263.5	24374.4	24263.5	23933.5	23391.5	22648.7	21719.8	20698.2	19533.5
-30°	20898.9	21354.6	21631.4	21724.3	21631.4	21354.6	20898.9	20272.2	19484.8	18545.4	17468.0
-32.5°	18510.3	18926.3	19178.6	19263.1	19178.6	18926.3	18510.3	17936.6	17213.3	16391.6	15492.2
-35°	16170.4	16514.0	16722.0	16791.6	16722.0	16514.0	16170.4	15695.6	15095.3	14393.0	13640.7
-37.5°	14039.5	14324.2	14496.4	14554.0	14496.4	14324.2	14039.5	13645.3	13145.8	12546.0	11927.7
-40°	12108.2	12339.6	12479.3	12526.0	12479.3	12339.6	12108.2	11787.5	11380.3	10890.3	10360.2
-42.5°	10381.0	10572.8	10688.6	10727.3	10688.6	10572.8	10381.0	10114.7	9776.0	9367.7	8921.8
-45°	8827.4	8978.8	9070.1	9100.6	9070.1	8978.8	8827.4	8617.0	8349.2	8025.7	7655.3
-47.5°	7482.2	7603.7	7676.9	7701.3	7676.9	7603.7	7482.2	7313.4	7098.1	6837.8	6533.9
-50°	6306.5	6401.4	6458.6	6477.7	6458.6	6401.4	6306.5	6174.3	6005.7	5801.5	5562.9
-52.5°	5296.6	5372.6	5418.4	5433.7	5418.4	5372.6	5296.6	5190.7	5055.5	4891.6	4699.9
-55°	4416.4	4474.0	4508.6	4520.2	4508.6	4474.0	4416.4	4336.2	4233.7	4109.4	3963.8
-57.5°	3680.1	3726.0	3753.6	3762.8	3753.6	3726.0	3680.1	3616.1	3534.3	3434.9	3318.5
-60°	3037.6	3071.8	3092.4	3099.3	3092.4	3071.8	3037.6	2989.8	2928.7	2854.5	2767.4
-62.5°	2504.9	2531.8	2547.9	2553.3	2547.9	2531.8	2504.9	2467.5	2419.5	2361.2	2292.8
-65°	2041.2	2062.0	2074.5	2078.7	2074.5	2062.0	2041.2	2012.1	1974.9	1929.7	1876.6
-67.5°	1639.5	1655.4	1664.9	1668.1	1664.9	1655.4	1639.5	1617.3	1589.0	1554.4	1513.9
-70°	1293.6	1305.9	1313.2	1315.7	1313.2	1305.9	1293.6	1276.4	1254.5	1227.7	1196.3
-72.5°	988.7	998.0	1003.6	1005.5	1003.6	998.0	988.7	975.6	958.9	938.5	914.6
-75°	721.1	727.7	731.7	733.0	731.7	727.7	721.1	711.8	699.9	685.5	668.5
-77.5°	497.5	502.0	504.7	505.6	504.7	502.0	497.5	491.2	483.2	473.4	461.9
-80°	314.5	317.3	318.9	319.5	318.9	317.3	314.5	310.6	305.6	299.6	292.5
-82.5°	172.3	173.7	174.5	174.8	174.5	173.7	172.3	170.3	167.8	164.8	161.2
-85°	76.2	76.7	77.0	77.1	77.0	76.7	76.2	75.5	74.6	73.4	72.1
-87.5°	23.3	23.4	23.5	23.5	23.5	23.4	23.3	23.1	22.9	22.7	22.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731233 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-7F-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.1	21.7	21.3	20.8	20.3	19.8	19.2	18.6	18.0	17.3	16.6
85°	70.6	68.9	67.0	65.0	62.7	60.3	57.7	54.9	52.0	48.9	45.7
82.5°	157.0	152.4	147.2	141.5	135.3	128.7	121.6	114.0	106.0	97.5	88.7
80°	284.3	275.0	264.8	253.5	241.3	228.1	214.0	199.0	183.2	169.2	157.3
77.5°	448.7	433.8	417.2	399.0	379.3	358.1	335.3	313.0	293.1	272.2	250.2
75°	649.0	627.0	602.6	575.8	546.8	515.5	486.3	457.1	426.4	394.0	360.1
72.5°	887.1	856.2	821.8	784.2	743.3	704.9	665.7	624.0	580.0	533.7	489.0
70°	1160.3	1119.7	1074.7	1025.4	976.0	925.4	871.4	814.1	753.6	697.1	641.6
67.5°	1467.4	1415.1	1357.1	1296.2	1235.6	1170.5	1100.9	1027.1	956.1	884.3	809.3
65°	1815.7	1747.3	1671.6	1599.9	1522.8	1439.9	1351.6	1264.8	1177.9	1086.8	993.3
62.5°	2214.5	2126.5	2035.8	1943.7	1844.0	1737.0	1629.3	1525.7	1416.5	1303.7	1198.7
60°	2667.8	2556.0	2448.2	2330.8	2203.8	2069.1	1943.7	1811.1	1671.6	1545.7	1415.1
57.5°	3185.4	3047.3	2911.7	2763.6	2603.7	2448.2	2289.8	2122.5	1964.6	1805.6	1644.0
55°	3797.5	3630.0	3450.0	3253.7	3052.1	2865.7	2667.8	2471.3	2280.8	2081.9	1902.5
52.5°	4487.8	4284.9	4061.4	3818.0	3581.4	3336.1	3080.1	2854.5	2618.1	2395.4	2173.0
50°	5308.9	5043.2	4750.8	4447.9	4164.5	3862.2	3569.6	3274.7	2989.8	2725.5	2464.8
47.5°	6230.8	5901.8	5540.4	5184.0	4815.6	4440.0	4096.5	3739.1	3409.0	3071.8	2779.6
45°	7280.9	6864.1	6417.4	5995.2	5542.8	5108.6	4665.0	4254.8	3853.0	3476.6	3099.3
42.5°	8458.8	7944.2	7421.5	6889.7	6344.1	5829.9	5306.8	4811.6	4334.6	3892.3	3476.6
40°	9778.5	9133.6	8523.7	7871.3	7241.6	6598.3	6004.3	5406.9	4860.7	4334.6	3853.0
37.5°	11232.9	10490.0	9734.2	8947.0	8204.0	7455.7	6738.2	6062.8	5406.9	4811.6	4254.8
35°	12795.0	11938.0	11041.4	10142.9	9222.0	8372.2	7527.6	6738.2	6004.3	5306.8	4665.0
32.5°	14491.1	13488.6	12418.9	11393.4	10349.8	9322.8	8372.2	7455.7	6598.3	5829.9	5108.6
30°	16316.0	15126.8	13913.2	12680.3	11511.8	10349.8	9222.0	8204.0	7241.6	6344.1	5542.8
27.5°	18236.7	16825.1	15453.2	14056.2	12680.3	11393.4	10142.9	8947.0	7871.3	6889.7	5995.2
25°	20140.9	18628.5	17013.6	15453.2	13913.2	12418.9	11041.4	9734.2	8523.7	7421.5	6417.4
22.5°	21984.9	20346.3	18628.5	16825.1	15126.8	13488.6	11938.0	10490.0	9133.6	7944.2	6864.1
20°	23854.0	21984.9	20140.9	18236.7	16316.0	14491.1	12795.0	11232.9	9778.5	8458.8	7280.9
17.5°	25712.7	23608.7	21537.1	19533.5	17468.0	15492.2	13640.7	11927.7	10360.2	8921.8	7655.3
15°	27469.6	25152.6	22885.5	20698.2	18545.4	16391.6	14393.0	12546.0	10890.3	9367.7	8025.7
12.5°	29076.5	26583.1	24088.1	21719.8	19484.8	17213.3	15095.3	13145.8	11380.3	9776.0	8349.2
10°	30456.2	27820.2	25173.0	22648.7	20272.2	17936.6	15695.6	13645.3	11787.5	10114.7	8617.0
7.5°	31554.3	28833.1	26064.3	23391.5	20898.9	18510.3	16170.4	14039.5	12108.2	10381.0	8827.4
5°	32370.1	29579.9	26717.6	23933.5	21354.6	18926.3	16514.0	14324.2	12339.6	10572.8	8978.8
2.5°	32873.4	30038.0	27116.7	24263.5	21631.4	19178.6	16722.0	14496.4	12479.3	10688.6	9070.1
0°	33043.7	30192.5	27251.0	24374.4	21724.3	19263.1	16791.6	14554.0	12526.0	10727.3	9100.6
-2.5°	32873.4	30038.0	27116.7	24263.5	21631.4	19178.6	16722.0	14496.4	12479.3	10688.6	9070.1
-5°	32370.1	29579.9	26717.6	23933.5	21354.6	18926.3	16514.0	14324.2	12339.6	10572.8	8978.8
-7.5°	31554.3	28833.1	26064.3	23391.5	20898.9	18510.3	16170.4	14039.5	12108.2	10381.0	8827.4
-10°	30456.2	27820.2	25173.0	22648.7	20272.2	17936.6	15695.6	13645.3	11787.5	10114.7	8617.0
-12.5°	29076.5	26583.1	24088.1	21719.8	19484.8	17213.3	15095.3	13145.8	11380.3	9776.0	8349.2
-15°	27469.6	25152.6	22885.5	20698.2	18545.4	16391.6	14393.0	12546.0	10890.3	9367.7	8025.7
-17.5°	25712.7	23608.7	21537.1	19533.5	17468.0	15492.2	13640.7	11927.7	10360.2	8921.8	7655.3
-20°	23854.0	21984.9	20140.9	18236.7	16316.0	14491.1	12795.0	11232.9	9778.5	8458.8	7280.9



REPORT NUMBER: P731233 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-7F-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	21984.9	20346.3	18628.5	16825.1	15126.8	13488.6	11938.0	10490.0	9133.6	7944.2	6864.1
-25°	20140.9	18628.5	17013.6	15453.2	13913.2	12418.9	11041.4	9734.2	8523.7	7421.5	6417.4
-27.5°	18236.7	16825.1	15453.2	14056.2	12680.3	11393.4	10142.9	8947.0	7871.3	6889.7	5995.2
-30°	16316.0	15126.8	13913.2	12680.3	11511.8	10349.8	9222.0	8204.0	7241.6	6344.1	5542.8
-32.5°	14491.1	13488.6	12418.9	11393.4	10349.8	9322.8	8372.2	7455.7	6598.3	5829.9	5108.6
-35°	12795.0	11938.0	11041.4	10142.9	9222.0	8372.2	7527.6	6738.2	6004.3	5306.8	4665.0
-37.5°	11232.9	10490.0	9734.2	8947.0	8204.0	7455.7	6738.2	6062.8	5406.9	4811.6	4254.8
-40°	9778.5	9133.6	8523.7	7871.3	7241.6	6598.3	6004.3	5406.9	4860.7	4334.6	3853.0
-42.5°	8458.8	7944.2	7421.5	6889.7	6344.1	5829.9	5306.8	4811.6	4334.6	3892.3	3476.6
-45°	7280.9	6864.1	6417.4	5995.2	5542.8	5108.6	4665.0	4254.8	3853.0	3476.6	3099.3
-47.5°	6230.8	5901.8	5540.4	5184.0	4815.6	4440.0	4096.5	3739.1	3409.0	3071.8	2779.6
-50°	5308.9	5043.2	4750.8	4447.9	4164.5	3862.2	3569.6	3274.7	2989.8	2725.5	2464.8
-52.5°	4487.8	4284.9	4061.4	3818.0	3581.4	3336.1	3080.1	2854.5	2618.1	2395.4	2173.0
-55°	3797.5	3630.0	3450.0	3253.7	3052.1	2865.7	2667.8	2471.3	2280.8	2081.9	1902.5
-57.5°	3185.4	3047.3	2911.7	2763.6	2603.7	2448.2	2289.8	2122.5	1964.6	1805.6	1644.0
-60°	2667.8	2556.0	2448.2	2330.8	2203.8	2069.1	1943.7	1811.1	1671.6	1545.7	1415.1
-62.5°	2214.5	2126.5	2035.8	1943.7	1844.0	1737.0	1629.3	1525.7	1416.5	1303.7	1198.7
-65°	1815.7	1747.3	1671.6	1599.9	1522.8	1439.9	1351.6	1264.8	1177.9	1086.8	993.3
-67.5°	1467.4	1415.1	1357.1	1296.2	1235.6	1170.5	1100.9	1027.1	956.1	884.3	809.3
-70°	1160.3	1119.7	1074.7	1025.4	976.0	925.4	871.4	814.1	753.6	697.1	641.6
-72.5°	887.1	856.2	821.8	784.2	743.3	704.9	665.7	624.0	580.0	533.7	489.0
-75°	649.0	627.0	602.6	575.8	546.8	515.5	486.3	457.1	426.4	394.0	360.1
-77.5°	448.7	433.8	417.2	399.0	379.3	358.1	335.3	313.0	293.1	272.2	250.2
-80°	284.3	275.0	264.8	253.5	241.3	228.1	214.0	199.0	183.2	169.2	157.3
-82.5°	157.0	152.4	147.2	141.5	135.3	128.7	121.6	114.0	106.0	97.5	88.7
-85°	70.6	68.9	67.0	65.0	62.7	60.3	57.7	54.9	52.0	48.9	45.7
-87.5°	22.1	21.7	21.3	20.8	20.3	19.8	19.2	18.6	18.0	17.3	16.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731233 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-7F-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.9	15.1	14.3	13.5	12.6	11.7	10.8	9.9	9.0	8.0	7.1
85°	42.3	38.8	35.1	31.3	27.4	23.5	21.7	19.8	18.0	16.1	14.1
82.5°	79.4	73.1	67.6	62.0	56.1	50.1	44.0	37.7	31.3	24.8	21.1
80°	145.0	132.1	118.8	105.1	90.9	76.7	68.5	60.1	51.6	42.9	34.1
77.5°	227.4	203.6	178.9	160.4	142.7	124.5	105.9	86.8	71.8	60.9	49.9
75°	324.7	295.0	265.4	234.8	203.4	172.3	149.9	127.1	103.8	80.2	65.6
72.5°	447.6	404.7	360.3	315.6	278.9	241.2	202.7	167.0	139.9	112.4	84.4
70°	583.8	523.8	469.7	417.3	363.4	310.6	266.6	221.7	176.0	144.2	112.4
67.5°	731.5	663.9	594.0	521.9	458.4	396.3	332.7	279.4	228.1	176.0	139.9
65°	906.3	816.1	724.7	644.6	562.4	483.2	412.8	341.0	279.4	221.7	167.0
62.5°	1089.5	980.0	877.5	772.0	675.2	582.8	491.5	412.8	332.7	266.6	202.7
60°	1283.8	1160.3	1032.9	914.6	796.6	685.5	582.8	483.2	396.3	310.6	241.2
57.5°	1496.7	1344.5	1203.0	1061.3	927.0	796.6	675.2	562.4	458.4	363.4	278.9
55°	1717.2	1546.1	1377.2	1217.4	1061.3	914.6	772.0	644.6	521.9	417.3	315.6
52.5°	1961.2	1756.1	1562.7	1377.2	1203.0	1032.9	877.5	724.7	594.0	469.7	360.3
50°	2218.9	1980.9	1756.1	1546.1	1344.5	1160.3	980.0	816.1	663.9	523.8	404.7
47.5°	2488.1	2218.9	1961.2	1717.2	1496.7	1283.8	1089.5	906.3	731.5	583.8	447.6
45°	2779.6	2464.8	2173.0	1902.5	1644.0	1415.1	1198.7	993.3	809.3	641.6	489.0
42.5°	3071.8	2725.5	2395.4	2081.9	1805.6	1545.7	1303.7	1086.8	884.3	697.1	533.7
40°	3409.0	2989.8	2618.1	2280.8	1964.6	1671.6	1416.5	1177.9	956.1	753.6	580.0
37.5°	3739.1	3274.7	2854.5	2471.3	2122.5	1811.1	1525.7	1264.8	1027.1	814.1	624.0
35°	4096.5	3569.6	3080.1	2667.8	2289.8	1943.7	1629.3	1351.6	1100.9	871.4	665.7
32.5°	4440.0	3862.2	3336.1	2865.7	2448.2	2069.1	1737.0	1439.9	1170.5	925.4	704.9
30°	4815.6	4164.5	3581.4	3052.1	2603.7	2203.8	1844.0	1522.8	1235.6	976.0	743.3
27.5°	5184.0	4447.9	3818.0	3253.7	2763.6	2330.8	1943.7	1599.9	1296.2	1025.4	784.2
25°	5540.4	4750.8	4061.4	3450.0	2911.7	2448.2	2035.8	1671.6	1357.1	1074.7	821.8
22.5°	5901.8	5043.2	4284.9	3630.0	3047.3	2556.0	2126.5	1747.3	1415.1	1119.7	856.2
20°	6230.8	5308.9	4487.8	3797.5	3185.4	2667.8	2214.5	1815.7	1467.4	1160.3	887.1
17.5°	6533.9	5562.9	4699.9	3963.8	3318.5	2767.4	2292.8	1876.6	1513.9	1196.3	914.6
15°	6837.8	5801.5	4891.6	4109.4	3434.9	2854.5	2361.2	1929.7	1554.4	1227.7	938.5
12.5°	7098.1	6005.7	5055.5	4233.7	3534.3	2928.7	2419.5	1974.9	1589.0	1254.5	958.9
10°	7313.4	6174.3	5190.7	4336.2	3616.1	2989.8	2467.5	2012.1	1617.3	1276.4	975.6
7.5°	7482.2	6306.5	5296.6	4416.4	3680.1	3037.6	2504.9	2041.2	1639.5	1293.6	988.7
5°	7603.7	6401.4	5372.6	4474.0	3726.0	3071.8	2531.8	2062.0	1655.4	1305.9	998.0
2.5°	7676.9	6458.6	5418.4	4508.6	3753.6	3092.4	2547.9	2074.5	1664.9	1313.2	1003.6
0°	7701.3	6477.7	5433.7	4520.2	3762.8	3099.3	2553.3	2078.7	1668.1	1315.7	1005.5
-2.5°	7676.9	6458.6	5418.4	4508.6	3753.6	3092.4	2547.9	2074.5	1664.9	1313.2	1003.6
-5°	7603.7	6401.4	5372.6	4474.0	3726.0	3071.8	2531.8	2062.0	1655.4	1305.9	998.0
-7.5°	7482.2	6306.5	5296.6	4416.4	3680.1	3037.6	2504.9	2041.2	1639.5	1293.6	988.7
-10°	7313.4	6174.3	5190.7	4336.2	3616.1	2989.8	2467.5	2012.1	1617.3	1276.4	975.6
-12.5°	7098.1	6005.7	5055.5	4233.7	3534.3	2928.7	2419.5	1974.9	1589.0	1254.5	958.9
-15°	6837.8	5801.5	4891.6	4109.4	3434.9	2854.5	2361.2	1929.7	1554.4	1227.7	938.5
-17.5°	6533.9	5562.9	4699.9	3963.8	3318.5	2767.4	2292.8	1876.6	1513.9	1196.3	914.6
-20°	6230.8	5308.9	4487.8	3797.5	3185.4	2667.8	2214.5	1815.7	1467.4	1160.3	887.1



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	5901.8	5043.2	4284.9	3630.0	3047.3	2556.0	2126.5	1747.3	1415.1	1119.7	856.2
-25°	5540.4	4750.8	4061.4	3450.0	2911.7	2448.2	2035.8	1671.6	1357.1	1074.7	821.8
-27.5°	5184.0	4447.9	3818.0	3253.7	2763.6	2330.8	1943.7	1599.9	1296.2	1025.4	784.2
-30°	4815.6	4164.5	3581.4	3052.1	2603.7	2203.8	1844.0	1522.8	1235.6	976.0	743.3
-32.5°	4440.0	3862.2	3336.1	2865.7	2448.2	2069.1	1737.0	1439.9	1170.5	925.4	704.9
-35°	4096.5	3569.6	3080.1	2667.8	2289.8	1943.7	1629.3	1351.6	1100.9	871.4	665.7
-37.5°	3739.1	3274.7	2854.5	2471.3	2122.5	1811.1	1525.7	1264.8	1027.1	814.1	624.0
-40°	3409.0	2989.8	2618.1	2280.8	1964.6	1671.6	1416.5	1177.9	956.1	753.6	580.0
-42.5°	3071.8	2725.5	2395.4	2081.9	1805.6	1545.7	1303.7	1086.8	884.3	697.1	533.7
-45°	2779.6	2464.8	2173.0	1902.5	1644.0	1415.1	1198.7	993.3	809.3	641.6	489.0
-47.5°	2488.1	2218.9	1961.2	1717.2	1496.7	1283.8	1089.5	906.3	731.5	583.8	447.6
-50°	2218.9	1980.9	1756.1	1546.1	1344.5	1160.3	980.0	816.1	663.9	523.8	404.7
-52.5°	1961.2	1756.1	1562.7	1377.2	1203.0	1032.9	877.5	724.7	594.0	469.7	360.3
-55°	1717.2	1546.1	1377.2	1217.4	1061.3	914.6	772.0	644.6	521.9	417.3	315.6
-57.5°	1496.7	1344.5	1203.0	1061.3	927.0	796.6	675.2	562.4	458.4	363.4	278.9
-60°	1283.8	1160.3	1032.9	914.6	796.6	685.5	582.8	483.2	396.3	310.6	241.2
-62.5°	1089.5	980.0	877.5	772.0	675.2	582.8	491.5	412.8	332.7	266.6	202.7
-65°	906.3	816.1	724.7	644.6	562.4	483.2	412.8	341.0	279.4	221.7	167.0
-67.5°	731.5	663.9	594.0	521.9	458.4	396.3	332.7	279.4	228.1	176.0	139.9
-70°	583.8	523.8	469.7	417.3	363.4	310.6	266.6	221.7	176.0	144.2	112.4
-72.5°	447.6	404.7	360.3	315.6	278.9	241.2	202.7	167.0	139.9	112.4	84.4
-75°	324.7	295.0	265.4	234.8	203.4	172.3	149.9	127.1	103.8	80.2	65.6
-77.5°	227.4	203.6	178.9	160.4	142.7	124.5	105.9	86.8	71.8	60.9	49.9
-80°	145.0	132.1	118.8	105.1	90.9	76.7	68.5	60.1	51.6	42.9	34.1
-82.5°	79.4	73.1	67.6	62.0	56.1	50.1	44.0	37.7	31.3	24.8	21.1
-85°	42.3	38.8	35.1	31.3	27.4	23.5	21.7	19.8	18.0	16.1	14.1
-87.5°	15.9	15.1	14.3	13.5	12.6	11.7	10.8	9.9	9.0	8.0	7.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	5.1	4.1	3.1	2.0	1.0	0.0
85°	12.2	10.2	8.2	6.1	4.1	2.0	0.0
82.5°	18.2	15.2	12.2	9.2	6.1	3.1	0.0
80°	25.1	20.2	16.2	12.2	8.2	4.1	0.0
77.5°	38.8	27.5	20.2	15.2	10.2	5.1	0.0
75°	52.3	38.8	25.1	18.2	12.2	6.1	0.0
72.5°	65.6	49.9	34.1	21.1	14.1	7.1	0.0
70°	80.2	60.9	42.9	24.8	16.1	8.0	0.0
67.5°	103.8	71.8	51.6	31.3	18.0	9.0	0.0
65°	127.1	86.8	60.1	37.7	19.8	9.9	0.0
62.5°	149.9	105.9	68.5	44.0	21.7	10.8	0.0
60°	172.3	124.5	76.7	50.1	23.5	11.7	0.0
57.5°	203.4	142.7	90.9	56.1	27.4	12.6	0.0
55°	234.8	160.4	105.1	62.0	31.3	13.5	0.0
52.5°	265.4	178.9	118.8	67.6	35.1	14.3	0.0
50°	295.0	203.6	132.1	73.1	38.8	15.1	0.0
47.5°	324.7	227.4	145.0	79.4	42.3	15.9	0.0
45°	360.1	250.2	157.3	88.7	45.7	16.6	0.0
42.5°	394.0	272.2	169.2	97.5	48.9	17.3	0.0
40°	426.4	293.1	183.2	106.0	52.0	18.0	0.0
37.5°	457.1	313.0	199.0	114.0	54.9	18.6	0.0
35°	486.3	335.3	214.0	121.6	57.7	19.2	0.0
32.5°	515.5	358.1	228.1	128.7	60.3	19.8	0.0
30°	546.8	379.3	241.3	135.3	62.7	20.3	0.0
27.5°	575.8	399.0	253.5	141.5	65.0	20.8	0.0
25°	602.6	417.2	264.8	147.2	67.0	21.3	0.0
22.5°	627.0	433.8	275.0	152.4	68.9	21.7	0.0
20°	649.0	448.7	284.3	157.0	70.6	22.1	0.0
17.5°	668.5	461.9	292.5	161.2	72.1	22.4	0.0
15°	685.5	473.4	299.6	164.8	73.4	22.7	0.0
12.5°	699.9	483.2	305.6	167.8	74.6	22.9	0.0
10°	711.8	491.2	310.6	170.3	75.5	23.1	0.0
7.5°	721.1	497.5	314.5	172.3	76.2	23.3	0.0
5°	727.7	502.0	317.3	173.7	76.7	23.4	0.0
2.5°	731.7	504.7	318.9	174.5	77.0	23.5	0.0
0°	733.0	505.6	319.5	174.8	77.1	23.5	0.0
-2.5°	731.7	504.7	318.9	174.5	77.0	23.5	0.0
-5°	727.7	502.0	317.3	173.7	76.7	23.4	0.0
-7.5°	721.1	497.5	314.5	172.3	76.2	23.3	0.0
-10°	711.8	491.2	310.6	170.3	75.5	23.1	0.0
-12.5°	699.9	483.2	305.6	167.8	74.6	22.9	0.0
-15°	685.5	473.4	299.6	164.8	73.4	22.7	0.0
-17.5°	668.5	461.9	292.5	161.2	72.1	22.4	0.0
-20°	649.0	448.7	284.3	157.0	70.6	22.1	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	627.0	433.8	275.0	152.4	68.9	21.7	0.0
-25°	602.6	417.2	264.8	147.2	67.0	21.3	0.0
-27.5°	575.8	399.0	253.5	141.5	65.0	20.8	0.0
-30°	546.8	379.3	241.3	135.3	62.7	20.3	0.0
-32.5°	515.5	358.1	228.1	128.7	60.3	19.8	0.0
-35°	486.3	335.3	214.0	121.6	57.7	19.2	0.0
-37.5°	457.1	313.0	199.0	114.0	54.9	18.6	0.0
-40°	426.4	293.1	183.2	106.0	52.0	18.0	0.0
-42.5°	394.0	272.2	169.2	97.5	48.9	17.3	0.0
-45°	360.1	250.2	157.3	88.7	45.7	16.6	0.0
-47.5°	324.7	227.4	145.0	79.4	42.3	15.9	0.0
-50°	295.0	203.6	132.1	73.1	38.8	15.1	0.0
-52.5°	265.4	178.9	118.8	67.6	35.1	14.3	0.0
-55°	234.8	160.4	105.1	62.0	31.3	13.5	0.0
-57.5°	203.4	142.7	90.9	56.1	27.4	12.6	0.0
-60°	172.3	124.5	76.7	50.1	23.5	11.7	0.0
-62.5°	149.9	105.9	68.5	44.0	21.7	10.8	0.0
-65°	127.1	86.8	60.1	37.7	19.8	9.9	0.0
-67.5°	103.8	71.8	51.6	31.3	18.0	9.0	0.0
-70°	80.2	60.9	42.9	24.8	16.1	8.0	0.0
-72.5°	65.6	49.9	34.1	21.1	14.1	7.1	0.0
-75°	52.3	38.8	25.1	18.2	12.2	6.1	0.0
-77.5°	38.8	27.5	20.2	15.2	10.2	5.1	0.0
-80°	25.1	20.2	16.2	12.2	8.2	4.1	0.0
-82.5°	18.2	15.2	12.2	9.2	6.1	3.1	0.0
-85°	12.2	10.2	8.2	6.1	4.1	2.0	0.0
-87.5°	6.1	5.1	4.1	3.1	2.0	1.0	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)

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

Scaled Data Report



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

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

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

Scaled Data Report

