

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: P731280 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-80-5S-HEG**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731280 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-5)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-08-0680N-40-80-5S-HEG
Description: EPHEBUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 5S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

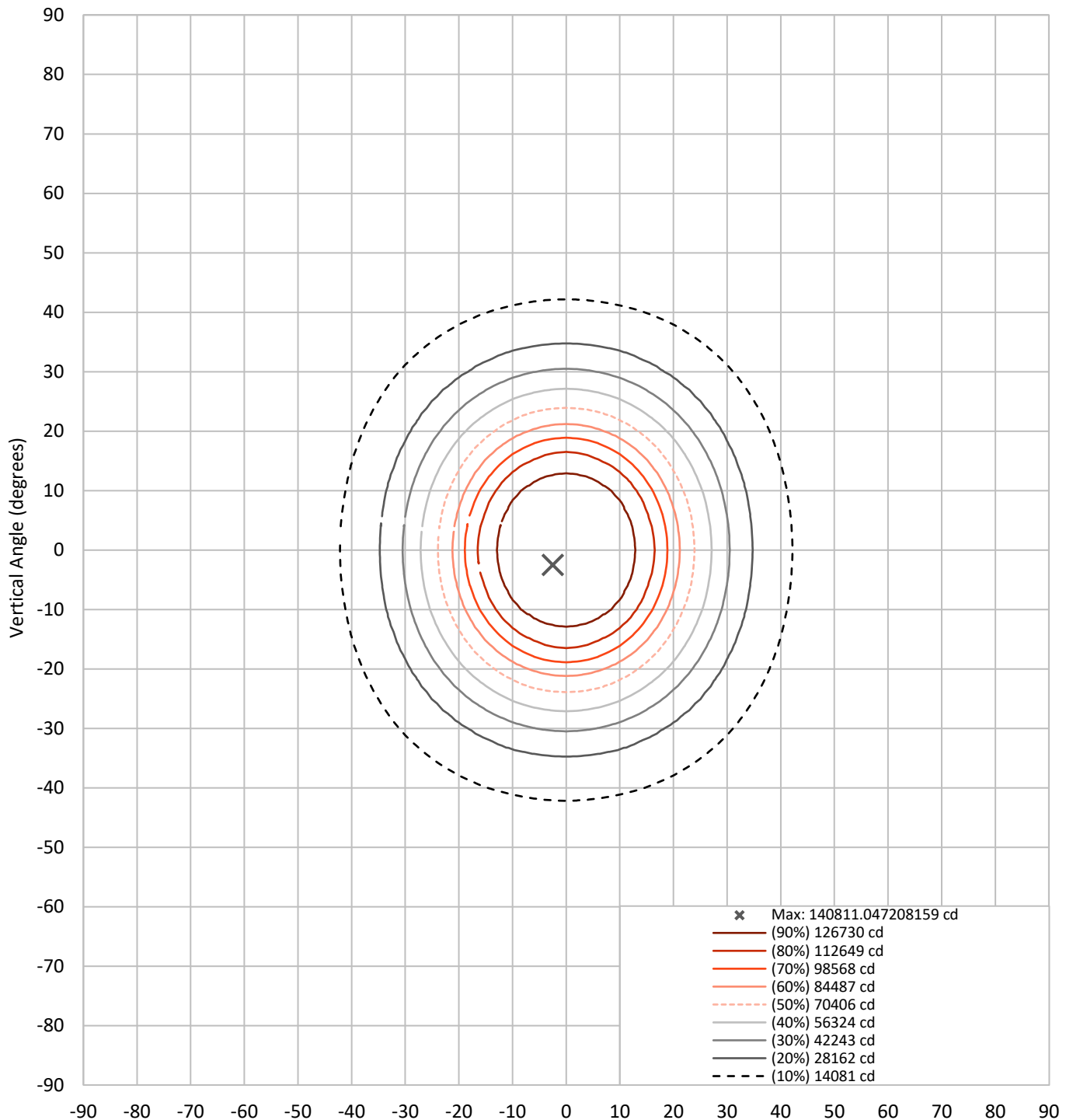
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	102924.4 lumens	Max Intensity:	140811 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x -2.5°V
Efficacy:	147.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	47.6°H x 47.6°V	Field Angle (10%):	84.3°H x 84.3°V
Beam Lumens:	57740.5 lumens	Field Lumens:	95900 lumens
Beam Efficiency:	56.1%	Field Efficiency:	93.2%

Input Watts (W): 697.2
Input Voltage (V): NR
Input Current (A_{in}): 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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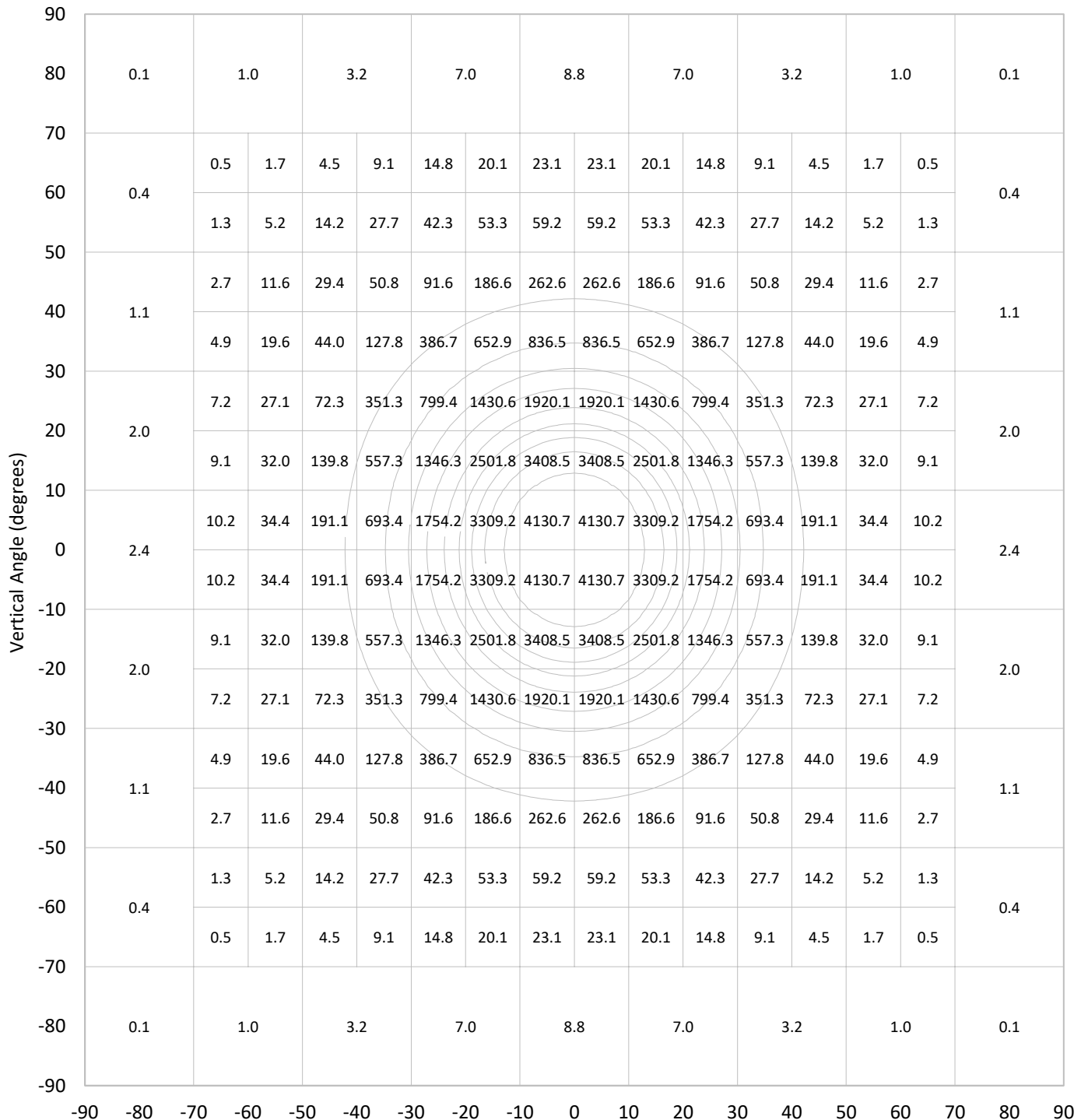
Iso-Candela Plot





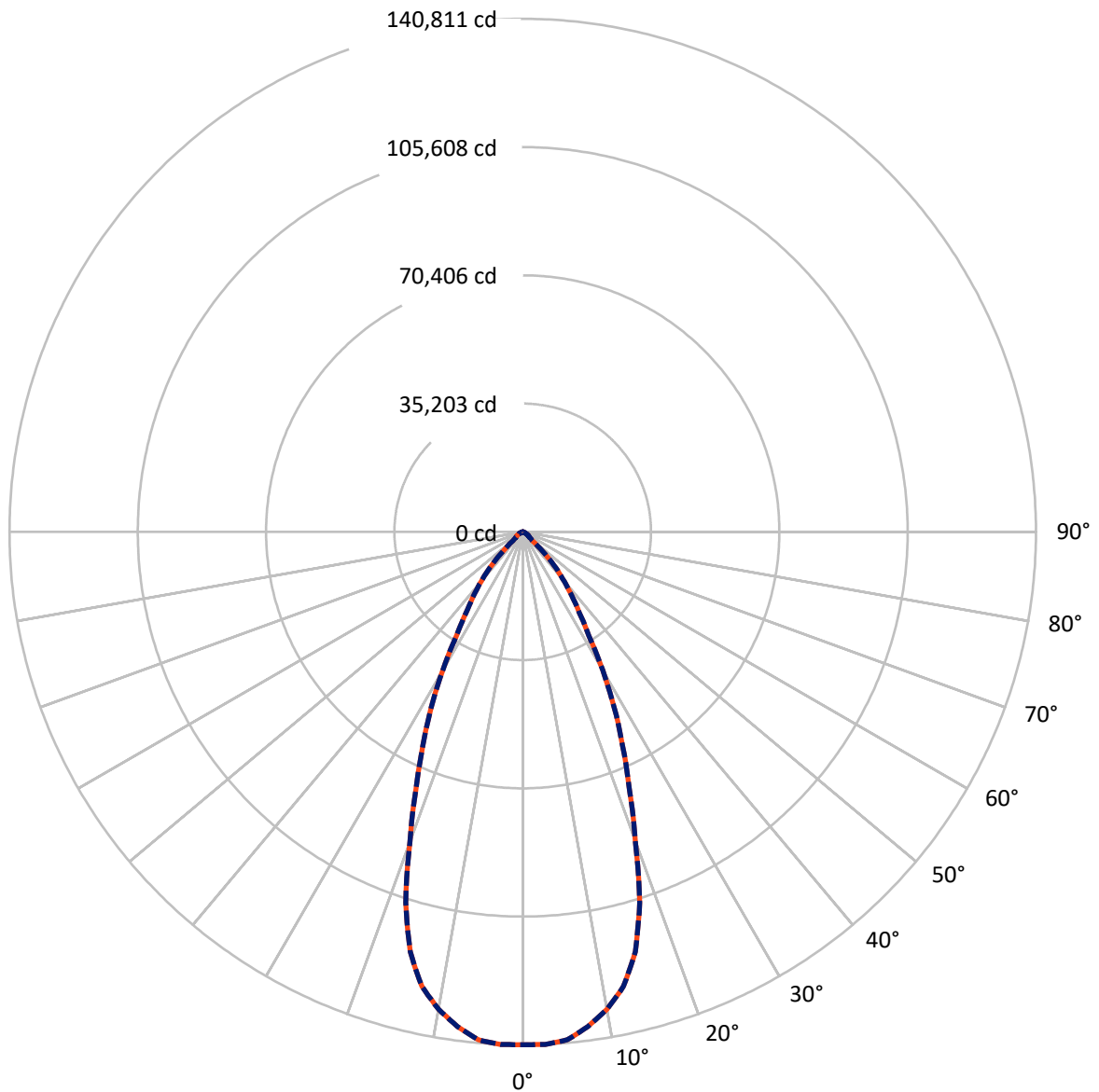
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Lumen Table



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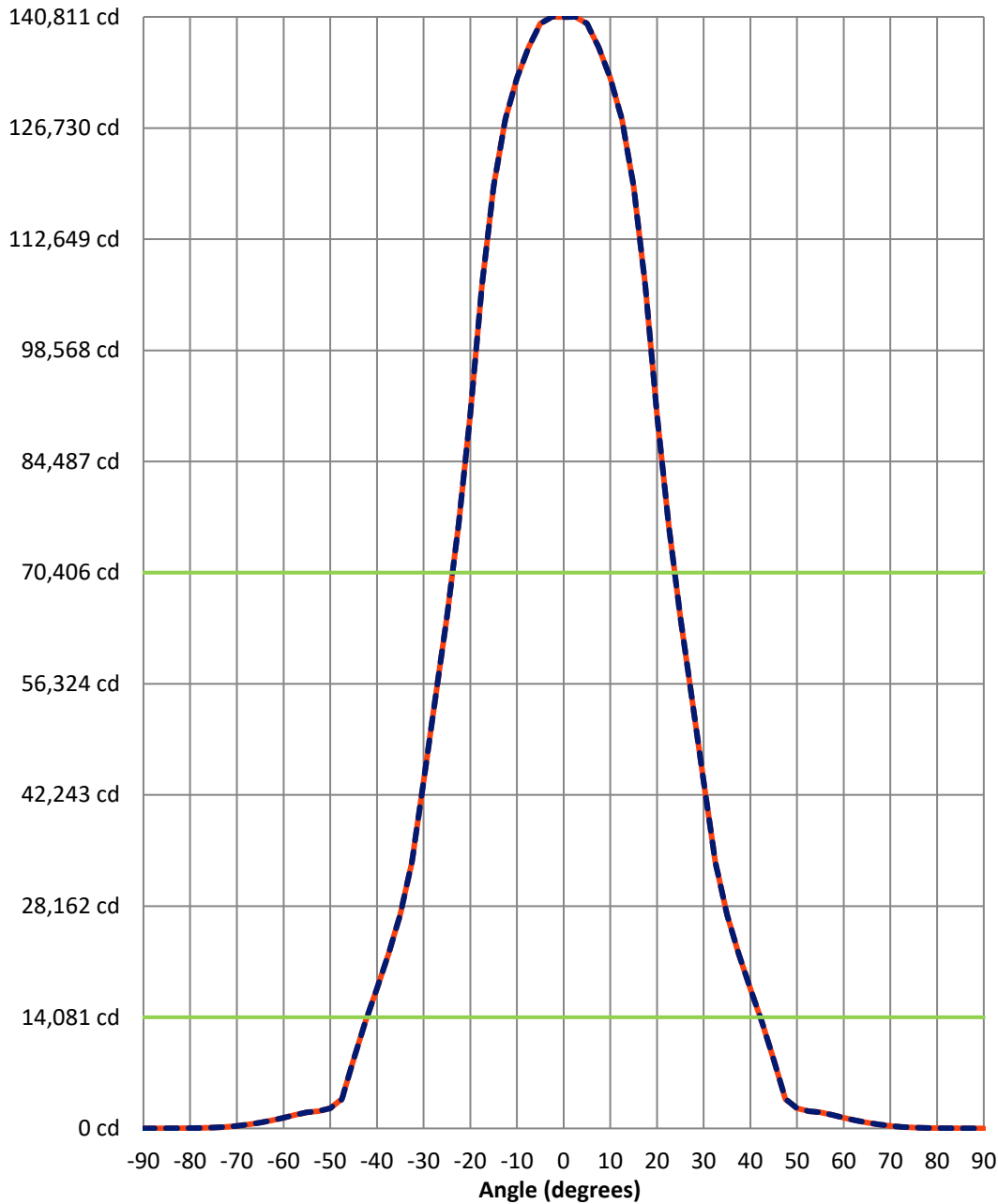
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 47.6°
 V Angle: 47.6°
 Lumens: 57740.5
 Efficiency: 56.1%

Field:
 H Angle: 84.3°
 V Angle: 84.3°
 Lumens: 95900
 Efficiency: 93.2%

Spill:
 Lumens: 7024.3
 Efficiency: 6.8%

- Vertical Distribution through -2.5-Deg
- - - Horizontal Distribution through -2.5-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	0.3	0.6	0.9	1.2	1.5	1.8	2.0	2.3	2.6	2.9
85°	0.0	0.6	1.2	1.8	2.4	2.9	3.5	4.1	4.6	5.2	5.7
82.5°	0.0	0.9	1.8	2.7	3.5	4.4	5.3	6.1	7.0	7.8	8.6
80°	0.0	1.2	2.4	3.5	4.7	5.9	7.0	8.2	9.3	10.4	11.5
77.5°	0.0	1.5	2.9	4.4	5.9	7.3	8.8	10.2	11.6	13.0	14.5
75°	0.0	1.8	3.5	5.3	7.0	8.8	10.5	12.2	14.0	16.0	18.1
72.5°	0.0	2.0	4.1	6.1	8.2	10.2	12.2	14.3	16.8	19.2	21.5
70°	0.0	2.3	4.6	7.0	9.3	11.6	14.0	16.8	19.5	22.3	26.1
67.5°	0.0	2.6	5.2	7.8	10.4	13.0	16.0	19.2	22.3	26.6	30.9
65°	0.0	2.9	5.7	8.6	11.5	14.5	18.1	21.5	26.1	30.9	37.4
62.5°	0.0	3.1	6.3	9.4	12.6	16.2	20.0	24.5	29.8	36.1	47.9
60°	0.0	3.4	6.8	10.2	13.6	17.8	22.0	27.7	33.5	45.5	58.2
57.5°	0.0	3.7	7.3	11.0	14.9	19.4	24.6	30.8	40.6	54.6	73.9
55°	0.0	3.9	7.8	11.8	16.1	20.9	27.2	33.9	48.5	65.1	91.8
52.5°	0.0	4.1	8.3	12.5	17.3	22.5	29.7	40.2	56.2	80.8	109.3
50°	0.0	4.4	8.8	13.2	18.5	24.6	32.2	46.7	65.5	96.0	133.0
47.5°	0.0	4.6	9.2	13.9	19.6	26.6	35.0	53.0	78.6	110.8	156.8
45°	0.0	4.8	9.7	14.7	20.7	28.5	40.2	59.1	91.2	131.2	179.7
42.5°	0.0	5.0	10.1	15.5	21.7	30.3	45.1	67.6	103.3	151.0	218.7
40°	0.0	5.2	10.5	16.2	22.9	32.0	49.9	77.7	116.5	169.9	258.9
37.5°	0.0	5.4	10.8	16.9	24.2	33.7	54.4	87.3	132.5	192.4	297.2
35°	0.0	5.6	11.2	17.6	25.5	36.5	58.7	96.4	147.6	224.9	338.5
32.5°	0.0	5.7	11.5	18.2	26.6	39.9	63.7	105.0	161.8	255.6	385.2
30°	0.0	5.9	11.8	18.8	27.7	43.0	70.5	113.8	175.1	284.3	429.0
27.5°	0.0	6.0	12.1	19.3	28.7	45.9	76.8	124.6	191.7	311.0	469.8
25°	0.0	6.2	12.4	19.8	29.7	48.5	82.7	134.5	213.4	341.5	507.8
22.5°	0.0	6.3	12.6	20.2	30.5	51.0	88.0	143.6	233.2	372.1	550.6
20°	0.0	6.4	12.9	20.7	31.3	53.1	92.8	151.7	251.1	399.7	589.4
17.5°	0.0	6.5	13.1	21.0	32.0	55.1	97.0	158.9	267.0	424.3	623.8
15°	0.0	6.6	13.2	21.3	32.5	56.8	100.7	165.3	280.8	445.7	653.9
12.5°	0.0	6.6	13.4	21.6	33.1	58.2	103.9	170.6	292.6	464.0	679.5
10°	0.0	6.7	13.5	21.8	33.5	59.4	106.5	175.0	302.3	479.0	700.5
7.5°	0.0	6.7	13.6	22.0	33.8	60.3	108.5	178.5	309.9	490.7	717.0
5°	0.0	6.8	13.6	22.1	34.0	61.0	109.9	180.9	315.3	499.1	728.8
2.5°	0.0	6.8	13.7	22.2	34.2	61.4	110.8	182.4	318.5	504.1	735.8
0°	0.0	6.8	13.7	22.2	34.2	61.5	111.1	182.9	319.6	505.8	738.2
-2.5°	0.0	6.8	13.7	22.2	34.2	61.5	111.1	182.9	319.6	505.8	738.2
-5°	0.0	6.8	13.6	22.1	34.0	61.0	109.9	180.9	315.3	499.1	728.8
-7.5°	0.0	6.7	13.6	22.0	33.8	60.3	108.5	178.5	309.9	490.7	717.0
-10°	0.0	6.7	13.5	21.8	33.5	59.4	106.5	175.0	302.3	479.0	700.5
-12.5°	0.0	6.6	13.4	21.6	33.1	58.2	103.9	170.6	292.6	464.0	679.5
-15°	0.0	6.6	13.2	21.3	32.5	56.8	100.7	165.3	280.8	445.7	653.9
-17.5°	0.0	6.5	13.1	21.0	32.0	55.1	97.0	158.9	267.0	424.3	623.8
-20°	0.0	6.4	12.9	20.7	31.3	53.1	92.8	151.7	251.1	399.7	589.4



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 CATALOG NUMBER: EPH-LS-08-0680N-40-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	6.3	12.6	20.2	30.5	51.0	88.0	143.6	233.2	372.1	550.6
-25°	0.0	6.2	12.4	19.8	29.7	48.5	82.7	134.5	213.4	341.5	507.8
-27.5°	0.0	6.0	12.1	19.3	28.7	45.9	76.8	124.6	191.7	311.0	469.8
-30°	0.0	5.9	11.8	18.8	27.7	43.0	70.5	113.8	175.1	284.3	429.0
-32.5°	0.0	5.7	11.5	18.2	26.6	39.9	63.7	105.0	161.8	255.6	385.2
-35°	0.0	5.6	11.2	17.6	25.5	36.5	58.7	96.4	147.6	224.9	338.5
-37.5°	0.0	5.4	10.8	16.9	24.2	33.7	54.4	87.3	132.5	192.4	297.2
-40°	0.0	5.2	10.5	16.2	22.9	32.0	49.9	77.7	116.5	169.9	258.9
-42.5°	0.0	5.0	10.1	15.5	21.7	30.3	45.1	67.6	103.3	151.0	218.7
-45°	0.0	4.8	9.7	14.7	20.7	28.5	40.2	59.1	91.2	131.2	179.7
-47.5°	0.0	4.6	9.2	13.9	19.6	26.6	35.0	53.0	78.6	110.8	156.8
-50°	0.0	4.4	8.8	13.2	18.5	24.6	32.2	46.7	65.5	96.0	133.0
-52.5°	0.0	4.1	8.3	12.5	17.3	22.5	29.7	40.2	56.2	80.8	109.3
-55°	0.0	3.9	7.8	11.8	16.1	20.9	27.2	33.9	48.5	65.1	91.8
-57.5°	0.0	3.7	7.3	11.0	14.9	19.4	24.6	30.8	40.6	54.6	73.9
-60°	0.0	3.4	6.8	10.2	13.6	17.8	22.0	27.7	33.5	45.5	58.2
-62.5°	0.0	3.1	6.3	9.4	12.6	16.2	20.0	24.5	29.8	36.1	47.9
-65°	0.0	2.9	5.7	8.6	11.5	14.5	18.1	21.5	26.1	30.9	37.4
-67.5°	0.0	2.6	5.2	7.8	10.4	13.0	16.0	19.2	22.3	26.6	30.9
-70°	0.0	2.3	4.6	7.0	9.3	11.6	14.0	16.8	19.5	22.3	26.1
-72.5°	0.0	2.0	4.1	6.1	8.2	10.2	12.2	14.3	16.8	19.2	21.5
-75°	0.0	1.8	3.5	5.3	7.0	8.8	10.5	12.2	14.0	16.0	18.1
-77.5°	0.0	1.5	2.9	4.4	5.9	7.3	8.8	10.2	11.6	13.0	14.5
-80°	0.0	1.2	2.4	3.5	4.7	5.9	7.0	8.2	9.3	10.4	11.5
-82.5°	0.0	0.9	1.8	2.7	3.5	4.4	5.3	6.1	7.0	7.8	8.6
-85°	0.0	0.6	1.2	1.8	2.4	2.9	3.5	4.1	4.6	5.2	5.7
-87.5°	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.0	2.3	2.6	2.9
-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: P731280 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-5S-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°	3.1	3.4	3.7	3.9	4.1	4.4	4.6	4.8	5.0	5.2	5.4
85°	6.3	6.8	7.3	7.8	8.3	8.8	9.2	9.7	10.1	10.5	10.8
82.5°	9.4	10.2	11.0	11.8	12.5	13.2	13.9	14.7	15.5	16.2	16.9
80°	12.6	13.6	14.9	16.1	17.3	18.5	19.6	20.7	21.7	22.9	24.2
77.5°	16.2	17.8	19.4	20.9	22.5	24.6	26.6	28.5	30.3	32.0	33.7
75°	20.0	22.0	24.6	27.2	29.7	32.2	35.0	40.2	45.1	49.9	54.4
72.5°	24.5	27.7	30.8	33.9	40.2	46.7	53.0	59.1	67.6	77.7	87.3
70°	29.8	33.5	40.6	48.5	56.2	65.5	78.6	91.2	103.3	116.5	132.5
67.5°	36.1	45.5	54.6	65.1	80.8	96.0	110.8	131.2	151.0	169.9	192.4
65°	47.9	58.2	73.9	91.8	109.3	133.0	156.8	179.7	218.7	258.9	297.2
62.5°	59.4	78.3	98.5	121.4	149.2	176.2	219.9	268.0	314.3	372.9	430.5
60°	78.3	100.7	127.9	158.9	195.0	251.1	305.5	372.1	441.1	507.8	586.7
57.5°	98.5	127.9	162.2	207.5	270.0	334.8	415.2	493.1	583.6	673.6	764.4
55°	121.4	158.9	207.5	276.3	352.1	441.4	533.6	638.5	740.1	859.0	972.9
52.5°	149.2	195.0	270.0	352.1	450.1	555.6	671.7	794.6	927.5	1060.9	1202.9
50°	176.2	251.1	334.8	441.4	555.6	682.8	822.0	969.0	1125.4	1284.2	1448.5
47.5°	219.9	305.5	415.2	533.6	671.7	822.0	982.9	1157.9	1333.5	1523.9	1709.3
45°	268.0	372.1	493.1	638.5	794.6	969.0	1157.9	1350.0	1561.9	1760.9	1931.3
42.5°	314.3	441.1	583.6	740.1	927.5	1125.4	1333.5	1561.9	1777.5	1965.2	2089.7
40°	372.9	507.8	673.6	859.0	1060.9	1284.2	1523.9	1760.9	1965.2	2097.4	2183.2
37.5°	430.5	586.7	764.4	972.9	1202.9	1448.5	1709.3	1931.3	2089.7	2183.2	2411.9
35°	485.3	661.8	864.4	1090.7	1338.4	1614.1	1864.1	2066.6	2167.5	2391.0	2815.0
32.5°	544.8	732.8	959.1	1209.6	1483.0	1764.8	2009.9	2136.3	2328.8	2677.9	3517.4
30°	605.4	813.0	1052.2	1321.7	1620.8	1893.0	2090.3	2226.3	2512.2	3307.8	5575.2
27.5°	661.8	888.9	1148.3	1436.7	1746.0	2013.2	2148.2	2387.8	2963.3	4372.6	8261.2
25°	713.9	959.1	1237.3	1546.9	1849.3	2080.1	2225.5	2538.4	3483.9	6730.7	10666.2
22.5°	766.8	1023.5	1318.8	1648.0	1944.1	2126.1	2354.4	2938.2	4636.0	8912.7	12872.6
20°	819.4	1090.7	1398.4	1737.3	2030.2	2167.8	2471.8	3346.3	6496.1	10795.3	14759.6
17.5°	866.2	1150.6	1473.1	1807.9	2072.1	2233.5	2614.9	3712.9	8170.0	12493.6	16400.5
15°	907.1	1202.9	1538.5	1869.6	2102.2	2318.6	2912.4	4930.5	9596.2	13950.2	17857.2
12.5°	941.9	1247.5	1594.3	1922.4	2128.0	2391.5	3167.3	6099.9	10788.2	15107.6	19165.4
10°	970.6	1284.2	1640.2	1965.9	2149.2	2451.6	3378.1	7068.2	11776.8	16069.4	20254.7
7.5°	993.0	1312.9	1676.1	1999.9	2165.9	2498.8	3543.4	7828.7	12554.3	16826.9	21114.4
5°	1009.0	1333.5	1701.9	2024.3	2177.8	2532.7	3662.3	8376.0	13114.3	17373.3	21735.3
2.5°	1018.7	1345.9	1717.4	2039.0	2185.0	2553.1	3734.0	8706.0	13452.3	17703.3	22110.8
0°	1021.9	1350.0	1722.6	2043.9	2187.4	2559.9	3757.9	8816.3	13565.3	17813.7	22236.4
-2.5°	1018.7	1345.9	1717.4	2039.0	2185.0	2553.1	3734.0	8706.0	13452.3	17703.3	22110.8
-5°	1009.0	1333.5	1701.9	2024.3	2177.8	2532.7	3662.3	8376.0	13114.3	17373.3	21735.3
-7.5°	993.0	1312.9	1676.1	1999.9	2165.9	2498.8	3543.4	7828.7	12554.3	16826.9	21114.4
-10°	970.6	1284.2	1640.2	1965.9	2149.2	2451.6	3378.1	7068.2	11776.8	16069.4	20254.7
-12.5°	941.9	1247.5	1594.3	1922.4	2128.0	2391.5	3167.3	6099.9	10788.2	15107.6	19165.4
-15°	907.1	1202.9	1538.5	1869.6	2102.2	2318.6	2912.4	4930.5	9596.2	13950.2	17857.2
-17.5°	866.2	1150.6	1473.1	1807.9	2072.1	2233.5	2614.9	3712.9	8170.0	12493.6	16400.5
-20°	819.4	1090.7	1398.4	1737.3	2030.2	2167.8	2471.8	3346.3	6496.1	10795.3	14759.6



REPORT NUMBER: P731280 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	766.8	1023.5	1318.8	1648.0	1944.1	2126.1	2354.4	2938.2	4636.0	8912.7	12872.6
-25°	713.9	959.1	1237.3	1546.9	1849.3	2080.1	2225.5	2538.4	3483.9	6730.7	10666.2
-27.5°	661.8	888.9	1148.3	1436.7	1746.0	2013.2	2148.2	2387.8	2963.3	4372.6	8261.2
-30°	605.4	813.0	1052.2	1321.7	1620.8	1893.0	2090.3	2226.3	2512.2	3307.8	5575.2
-32.5°	544.8	732.8	959.1	1209.6	1483.0	1764.8	2009.9	2136.3	2328.8	2677.9	3517.4
-35°	485.3	661.8	864.4	1090.7	1338.4	1614.1	1864.1	2066.6	2167.5	2391.0	2815.0
-37.5°	430.5	586.7	764.4	972.9	1202.9	1448.5	1709.3	1931.3	2089.7	2183.2	2411.9
-40°	372.9	507.8	673.6	859.0	1060.9	1284.2	1523.9	1760.9	1965.2	2097.4	2183.2
-42.5°	314.3	441.1	583.6	740.1	927.5	1125.4	1333.5	1561.9	1777.5	1965.2	2089.7
-45°	268.0	372.1	493.1	638.5	794.6	969.0	1157.9	1350.0	1561.9	1760.9	1931.3
-47.5°	219.9	305.5	415.2	533.6	671.7	822.0	982.9	1157.9	1333.5	1523.9	1709.3
-50°	176.2	251.1	334.8	441.4	555.6	682.8	822.0	969.0	1125.4	1284.2	1448.5
-52.5°	149.2	195.0	270.0	352.1	450.1	555.6	671.7	794.6	927.5	1060.9	1202.9
-55°	121.4	158.9	207.5	276.3	352.1	441.4	533.6	638.5	740.1	859.0	972.9
-57.5°	98.5	127.9	162.2	207.5	270.0	334.8	415.2	493.1	583.6	673.6	764.4
-60°	78.3	100.7	127.9	158.9	195.0	251.1	305.5	372.1	441.1	507.8	586.7
-62.5°	59.4	78.3	98.5	121.4	149.2	176.2	219.9	268.0	314.3	372.9	430.5
-65°	47.9	58.2	73.9	91.8	109.3	133.0	156.8	179.7	218.7	258.9	297.2
-67.5°	36.1	45.5	54.6	65.1	80.8	96.0	110.8	131.2	151.0	169.9	192.4
-70°	29.8	33.5	40.6	48.5	56.2	65.5	78.6	91.2	103.3	116.5	132.5
-72.5°	24.5	27.7	30.8	33.9	40.2	46.7	53.0	59.1	67.6	77.7	87.3
-75°	20.0	22.0	24.6	27.2	29.7	32.2	35.0	40.2	45.1	49.9	54.4
-77.5°	16.2	17.8	19.4	20.9	22.5	24.6	26.6	28.5	30.3	32.0	33.7
-80°	12.6	13.6	14.9	16.1	17.3	18.5	19.6	20.7	21.7	22.9	24.2
-82.5°	9.4	10.2	11.0	11.8	12.5	13.2	13.9	14.7	15.5	16.2	16.9
-85°	6.3	6.8	7.3	7.8	8.3	8.8	9.2	9.7	10.1	10.5	10.8
-87.5°	3.1	3.4	3.7	3.9	4.1	4.4	4.6	4.8	5.0	5.2	5.4
-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):

	-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°	5.6	5.7	5.9	6.0	6.2	6.3	6.4	6.5	6.6	6.6	6.7
85°	11.2	11.5	11.8	12.1	12.4	12.6	12.9	13.1	13.2	13.4	13.5
82.5°	17.6	18.2	18.8	19.3	19.8	20.2	20.7	21.0	21.3	21.6	21.8
80°	25.5	26.6	27.7	28.7	29.7	30.5	31.3	32.0	32.5	33.1	33.5
77.5°	36.5	39.9	43.0	45.9	48.5	51.0	53.1	55.1	56.8	58.2	59.4
75°	58.7	63.7	70.5	76.8	82.7	88.0	92.8	97.0	100.7	103.9	106.5
72.5°	96.4	105.0	113.8	124.6	134.5	143.6	151.7	158.9	165.3	170.6	175.0
70°	147.6	161.8	175.1	191.7	213.4	233.2	251.1	267.0	280.8	292.6	302.3
67.5°	224.9	255.6	284.3	311.0	341.5	372.1	399.7	424.3	445.7	464.0	479.0
65°	338.5	385.2	429.0	469.8	507.8	550.6	589.4	623.8	653.9	679.5	700.5
62.5°	485.3	544.8	605.4	661.8	713.9	766.8	819.4	866.2	907.1	941.9	970.6
60°	661.8	732.8	813.0	888.9	959.1	1023.5	1090.7	1150.6	1202.9	1247.5	1284.2
57.5°	864.4	959.1	1052.2	1148.3	1237.3	1318.8	1398.4	1473.1	1538.5	1594.3	1640.2
55°	1090.7	1209.6	1321.7	1436.7	1546.9	1648.0	1737.3	1807.9	1869.6	1922.4	1965.9
52.5°	1338.4	1483.0	1620.8	1746.0	1849.3	1944.1	2030.2	2072.1	2102.2	2128.0	2149.2
50°	1614.1	1764.8	1893.0	2013.2	2080.1	2126.1	2167.8	2233.5	2318.6	2391.5	2451.6
47.5°	1864.1	2009.9	2090.3	2148.2	2225.5	2354.4	2471.8	2614.9	2912.4	3167.3	3378.1
45°	2066.6	2136.3	2226.3	2387.8	2538.4	2938.2	3346.3	3712.9	4930.5	6099.9	7068.2
42.5°	2167.5	2328.8	2512.2	2963.3	3483.9	4636.0	6496.1	8170.0	9596.2	10788.2	11776.8
40°	2391.0	2677.9	3307.8	4372.6	6730.7	8912.7	10795.3	12493.6	13950.2	15107.6	16069.4
37.5°	2815.0	3517.4	5575.2	8261.2	10666.2	12872.6	14759.6	16400.5	17857.2	19165.4	20254.7
35°	3587.8	6183.3	9170.9	11859.2	14307.2	16424.8	18400.2	20244.7	21885.3	23450.2	24796.1
32.5°	6183.3	9465.1	12463.2	15138.6	17560.8	19913.0	22099.2	24340.0	26356.9	28401.1	30369.1
30°	9170.9	12463.2	15418.2	18150.2	20839.0	23520.7	26187.3	29094.2	32025.6	34909.0	38214.0
27.5°	11859.2	15138.6	18150.2	21150.8	24252.6	27344.9	31185.7	35113.2	40001.7	44289.6	47981.4
25°	14307.2	17560.8	20839.0	24252.6	27857.7	32251.7	37662.8	43522.9	48922.1	53700.0	57736.5
22.5°	16424.8	19913.0	23520.7	27344.9	32251.7	38524.9	45344.0	51795.4	57662.3	62855.7	67568.4
20°	18400.2	22099.2	26187.3	31185.7	37662.8	45344.0	52769.9	59695.8	66159.1	72618.4	78415.7
17.5°	20244.7	24340.0	29094.2	35113.2	43522.9	51795.4	59695.8	67393.7	75236.5	83389.9	90839.1
15°	21885.3	26356.9	32025.6	40001.7	48922.1	57662.3	66159.1	75236.5	85096.0	95040.9	104793.1
12.5°	23450.2	28401.1	34909.0	44289.6	53700.0	62855.7	72618.4	83389.9	95040.9	107161.7	115541.4
10°	24796.1	30369.1	38214.0	47981.4	57736.5	67568.4	78415.7	90839.1	104793.1	115541.4	123600.9
7.5°	25860.8	31930.0	40844.3	50932.3	60972.3	71640.1	83874.8	97962.3	111691.7	121977.0	128491.5
5°	26631.2	33062.0	42757.0	53085.6	63344.1	74641.9	87930.6	103366.9	116360.5	125720.5	131458.8
2.5°	27097.6	33748.3	43919.0	54396.9	64793.0	76483.4	90433.3	106729.2	119300.1	127794.5	133052.5
0°	27253.7	33978.3	44308.7	54837.3	65280.4	77104.4	91279.8	107871.6	120305.7	128431.6	133597.6
-2.5°	27097.6	33748.3	43919.0	54396.9	64793.0	76483.4	90433.3	106729.2	119300.1	127794.5	133052.5
-5°	26631.2	33062.0	42757.0	53085.6	63344.1	74641.9	87930.6	103366.9	116360.5	125720.5	131458.8
-7.5°	25860.8	31930.0	40844.3	50932.3	60972.3	71640.1	83874.8	97962.3	111691.7	121977.0	128491.5
-10°	24796.1	30369.1	38214.0	47981.4	57736.5	67568.4	78415.7	90839.1	104793.1	115541.4	123600.9
-12.5°	23450.2	28401.1	34909.0	44289.6	53700.0	62855.7	72618.4	83389.9	95040.9	107161.7	115541.4
-15°	21885.3	26356.9	32025.6	40001.7	48922.1	57662.3	66159.1	75236.5	85096.0	95040.9	104793.1
-17.5°	20244.7	24340.0	29094.2	35113.2	43522.9	51795.4	59695.8	67393.7	75236.5	83389.9	90839.1
-20°	18400.2	22099.2	26187.3	31185.7	37662.8	45344.0	52769.9	59695.8	66159.1	72618.4	78415.7



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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°	16424.8	19913.0	23520.7	27344.9	32251.7	38524.9	45344.0	51795.4	57662.3	62855.7	67568.4
-25°	14307.2	17560.8	20839.0	24252.6	27857.7	32251.7	37662.8	43522.9	48922.1	53700.0	57736.5
-27.5°	11859.2	15138.6	18150.2	21150.8	24252.6	27344.9	31185.7	35113.2	40001.7	44289.6	47981.4
-30°	9170.9	12463.2	15418.2	18150.2	20839.0	23520.7	26187.3	29094.2	32025.6	34909.0	38214.0
-32.5°	6183.3	9465.1	12463.2	15138.6	17560.8	19913.0	22099.2	24340.0	26356.9	28401.1	30369.1
-35°	3587.8	6183.3	9170.9	11859.2	14307.2	16424.8	18400.2	20244.7	21885.3	23450.2	24796.1
-37.5°	2815.0	3517.4	5575.2	8261.2	10666.2	12872.6	14759.6	16400.5	17857.2	19165.4	20254.7
-40°	2391.0	2677.9	3307.8	4372.6	6730.7	8912.7	10795.3	12493.6	13950.2	15107.6	16069.4
-42.5°	2167.5	2328.8	2512.2	2963.3	3483.9	4636.0	6496.1	8170.0	9596.2	10788.2	11776.8
-45°	2066.6	2136.3	2226.3	2387.8	2538.4	2938.2	3346.3	3712.9	4930.5	6099.9	7068.2
-47.5°	1864.1	2009.9	2090.3	2148.2	2225.5	2354.4	2471.8	2614.9	2912.4	3167.3	3378.1
-50°	1614.1	1764.8	1893.0	2013.2	2080.1	2126.1	2167.8	2233.5	2318.6	2391.5	2451.6
-52.5°	1338.4	1483.0	1620.8	1746.0	1849.3	1944.1	2030.2	2072.1	2102.2	2128.0	2149.2
-55°	1090.7	1209.6	1321.7	1436.7	1546.9	1648.0	1737.3	1807.9	1869.6	1922.4	1965.9
-57.5°	864.4	959.1	1052.2	1148.3	1237.3	1318.8	1398.4	1473.1	1538.5	1594.3	1640.2
-60°	661.8	732.8	813.0	888.9	959.1	1023.5	1090.7	1150.6	1202.9	1247.5	1284.2
-62.5°	485.3	544.8	605.4	661.8	713.9	766.8	819.4	866.2	907.1	941.9	970.6
-65°	338.5	385.2	429.0	469.8	507.8	550.6	589.4	623.8	653.9	679.5	700.5
-67.5°	224.9	255.6	284.3	311.0	341.5	372.1	399.7	424.3	445.7	464.0	479.0
-70°	147.6	161.8	175.1	191.7	213.4	233.2	251.1	267.0	280.8	292.6	302.3
-72.5°	96.4	105.0	113.8	124.6	134.5	143.6	151.7	158.9	165.3	170.6	175.0
-75°	58.7	63.7	70.5	76.8	82.7	88.0	92.8	97.0	100.7	103.9	106.5
-77.5°	36.5	39.9	43.0	45.9	48.5	51.0	53.1	55.1	56.8	58.2	59.4
-80°	25.5	26.6	27.7	28.7	29.7	30.5	31.3	32.0	32.5	33.1	33.5
-82.5°	17.6	18.2	18.8	19.3	19.8	20.2	20.7	21.0	21.3	21.6	21.8
-85°	11.2	11.5	11.8	12.1	12.4	12.6	12.9	13.1	13.2	13.4	13.5
-87.5°	5.6	5.7	5.9	6.0	6.2	6.3	6.4	6.5	6.6	6.6	6.7
-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: P731280 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-5S-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°	6.7	6.8	6.8	6.8	6.8	6.8	6.7	6.7	6.6	6.6	6.5
85°	13.6	13.6	13.7	13.7	13.7	13.6	13.6	13.5	13.4	13.2	13.1
82.5°	22.0	22.1	22.2	22.2	22.2	22.1	22.0	21.8	21.6	21.3	21.0
80°	33.8	34.0	34.2	34.2	34.2	34.0	33.8	33.5	33.1	32.5	32.0
77.5°	60.3	61.0	61.4	61.5	61.4	61.0	60.3	59.4	58.2	56.8	55.1
75°	108.5	109.9	110.8	111.1	110.8	109.9	108.5	106.5	103.9	100.7	97.0
72.5°	178.5	180.9	182.4	182.9	182.4	180.9	178.5	175.0	170.6	165.3	158.9
70°	309.9	315.3	318.5	319.6	318.5	315.3	309.9	302.3	292.6	280.8	267.0
67.5°	490.7	499.1	504.1	505.8	504.1	499.1	490.7	479.0	464.0	445.7	424.3
65°	717.0	728.8	735.8	738.2	735.8	728.8	717.0	700.5	679.5	653.9	623.8
62.5°	993.0	1009.0	1018.7	1021.9	1018.7	1009.0	993.0	970.6	941.9	907.1	866.2
60°	1312.9	1333.5	1345.9	1350.0	1345.9	1333.5	1312.9	1284.2	1247.5	1202.9	1150.6
57.5°	1676.1	1701.9	1717.4	1722.6	1717.4	1701.9	1676.1	1640.2	1594.3	1538.5	1473.1
55°	1999.9	2024.3	2039.0	2043.9	2039.0	2024.3	1999.9	1965.9	1922.4	1869.6	1807.9
52.5°	2165.9	2177.8	2185.0	2187.4	2185.0	2177.8	2165.9	2149.2	2128.0	2102.2	2072.1
50°	2498.8	2532.7	2553.1	2559.9	2553.1	2532.7	2498.8	2451.6	2391.5	2318.6	2233.5
47.5°	3543.4	3662.3	3734.0	3757.9	3734.0	3662.3	3543.4	3378.1	3167.3	2912.4	2614.9
45°	7828.7	8376.0	8706.0	8816.3	8706.0	8376.0	7828.7	7068.2	6099.9	4930.5	3712.9
42.5°	12554.3	13114.3	13452.3	13565.3	13452.3	13114.3	12554.3	11776.8	10788.2	9596.2	8170.0
40°	16826.9	17373.3	17703.3	17813.7	17703.3	17373.3	16826.9	16069.4	15107.6	13950.2	12493.6
37.5°	21114.4	21735.3	22110.8	22236.4	22110.8	21735.3	21114.4	20254.7	19165.4	17857.2	16400.5
35°	25860.8	26631.2	27097.6	27253.7	27097.6	26631.2	25860.8	24796.1	23450.2	21885.3	20244.7
32.5°	31930.0	33062.0	33748.3	33978.3	33748.3	33062.0	31930.0	30369.1	28401.1	26356.9	24340.0
30°	40844.3	42757.0	43919.0	44308.7	43919.0	42757.0	40844.3	38214.0	34909.0	32025.6	29094.2
27.5°	50932.3	53085.6	54396.9	54837.3	54396.9	53085.6	50932.3	47981.4	44289.6	40001.7	35113.2
25°	60972.3	63344.1	64793.0	65280.4	64793.0	63344.1	60972.3	57736.5	53700.0	48922.1	43522.9
22.5°	71640.1	74641.9	76483.4	77104.4	76483.4	74641.9	71640.1	67568.4	62855.7	57662.3	51795.4
20°	83874.8	87930.6	90433.3	91279.8	90433.3	87930.6	83874.8	78415.7	72618.4	66159.1	59695.8
17.5°	97962.3	103366.9	106729.2	107871.6	106729.2	103366.9	97962.3	90839.1	83389.9	75236.5	67393.7
15°	111691.7	116360.5	119300.1	120305.7	119300.1	116360.5	111691.7	104793.1	95040.9	85096.0	75236.5
12.5°	121977.0	125720.5	127794.5	128431.6	127794.5	125720.5	121977.0	115541.4	107161.7	95040.9	83389.9
10°	128491.5	131458.8	133052.5	133597.6	133052.5	131458.8	128491.5	123600.9	115541.4	104793.1	90839.1
7.5°	132539.4	135301.4	136960.5	137545.2	136960.5	135301.4	132539.4	128491.5	121977.0	111691.7	97962.3
5°	135301.4	138173.2	139954.9	140498.2	139954.9	138173.2	135301.4	131458.8	125720.5	116360.5	103366.9
2.5°	136960.5	139954.9	140811.0	140781.8	140811.0	139954.9	136960.5	133052.5	127794.5	119300.1	106729.2
0°	137545.2	140498.2	140781.8	140238.4	140781.8	140498.2	137545.2	133597.6	128431.6	120305.7	107871.6
-2.5°	136960.5	139954.9	140811.0	140781.8	140811.0	139954.9	136960.5	133052.5	127794.5	119300.1	106729.2
-5°	135301.4	138173.2	139954.9	140498.2	139954.9	138173.2	135301.4	131458.8	125720.5	116360.5	103366.9
-7.5°	132539.4	135301.4	136960.5	137545.2	136960.5	135301.4	132539.4	128491.5	121977.0	111691.7	97962.3
-10°	128491.5	131458.8	133052.5	133597.6	133052.5	131458.8	128491.5	123600.9	115541.4	104793.1	90839.1
-12.5°	121977.0	125720.5	127794.5	128431.6	127794.5	125720.5	121977.0	115541.4	107161.7	95040.9	83389.9
-15°	111691.7	116360.5	119300.1	120305.7	119300.1	116360.5	111691.7	104793.1	95040.9	85096.0	75236.5
-17.5°	97962.3	103366.9	106729.2	107871.6	106729.2	103366.9	97962.3	90839.1	83389.9	75236.5	67393.7
-20°	83874.8	87930.6	90433.3	91279.8	90433.3	87930.6	83874.8	78415.7	72618.4	66159.1	59695.8



REPORT NUMBER: P731280 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	71640.1	74641.9	76483.4	77104.4	76483.4	74641.9	71640.1	67568.4	62855.7	57662.3	51795.4
-25°	60972.3	63344.1	64793.0	65280.4	64793.0	63344.1	60972.3	57736.5	53700.0	48922.1	43522.9
-27.5°	50932.3	53085.6	54396.9	54837.3	54396.9	53085.6	50932.3	47981.4	44289.6	40001.7	35113.2
-30°	40844.3	42757.0	43919.0	44308.7	43919.0	42757.0	40844.3	38214.0	34909.0	32025.6	29094.2
-32.5°	31930.0	33062.0	33748.3	33978.3	33748.3	33062.0	31930.0	30369.1	28401.1	26356.9	24340.0
-35°	25860.8	26631.2	27097.6	27253.7	27097.6	26631.2	25860.8	24796.1	23450.2	21885.3	20244.7
-37.5°	21114.4	21735.3	22110.8	22236.4	22110.8	21735.3	21114.4	20254.7	19165.4	17857.2	16400.5
-40°	16826.9	17373.3	17703.3	17813.7	17703.3	17373.3	16826.9	16069.4	15107.6	13950.2	12493.6
-42.5°	12554.3	13114.3	13452.3	13565.3	13452.3	13114.3	12554.3	11776.8	10788.2	9596.2	8170.0
-45°	7828.7	8376.0	8706.0	8816.3	8706.0	8376.0	7828.7	7068.2	6099.9	4930.5	3712.9
-47.5°	3543.4	3662.3	3734.0	3757.9	3734.0	3662.3	3543.4	3378.1	3167.3	2912.4	2614.9
-50°	2498.8	2532.7	2553.1	2559.9	2553.1	2532.7	2498.8	2451.6	2391.5	2318.6	2233.5
-52.5°	2165.9	2177.8	2185.0	2187.4	2185.0	2177.8	2165.9	2149.2	2128.0	2102.2	2072.1
-55°	1999.9	2024.3	2039.0	2043.9	2039.0	2024.3	1999.9	1965.9	1922.4	1869.6	1807.9
-57.5°	1676.1	1701.9	1717.4	1722.6	1717.4	1701.9	1676.1	1640.2	1594.3	1538.5	1473.1
-60°	1312.9	1333.5	1345.9	1350.0	1345.9	1333.5	1312.9	1284.2	1247.5	1202.9	1150.6
-62.5°	993.0	1009.0	1018.7	1021.9	1018.7	1009.0	993.0	970.6	941.9	907.1	866.2
-65°	717.0	728.8	735.8	738.2	735.8	728.8	717.0	700.5	679.5	653.9	623.8
-67.5°	490.7	499.1	504.1	505.8	504.1	499.1	490.7	479.0	464.0	445.7	424.3
-70°	309.9	315.3	318.5	319.6	318.5	315.3	309.9	302.3	292.6	280.8	267.0
-72.5°	178.5	180.9	182.4	182.9	182.4	180.9	178.5	175.0	170.6	165.3	158.9
-75°	108.5	109.9	110.8	111.1	110.8	109.9	108.5	106.5	103.9	100.7	97.0
-77.5°	60.3	61.0	61.4	61.5	61.4	61.0	60.3	59.4	58.2	56.8	55.1
-80°	33.8	34.0	34.2	34.2	34.2	34.0	33.8	33.5	33.1	32.5	32.0
-82.5°	22.0	22.1	22.2	22.2	22.2	22.1	22.0	21.8	21.6	21.3	21.0
-85°	13.6	13.6	13.7	13.7	13.7	13.6	13.6	13.5	13.4	13.2	13.1
-87.5°	6.7	6.8	6.8	6.8	6.8	6.8	6.7	6.7	6.6	6.6	6.5
-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: P731280 (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°
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°	6.4	6.3	6.2	6.0	5.9	5.7	5.6	5.4	5.2	5.0	4.8
85°	12.9	12.6	12.4	12.1	11.8	11.5	11.2	10.8	10.5	10.1	9.7
82.5°	20.7	20.2	19.8	19.3	18.8	18.2	17.6	16.9	16.2	15.5	14.7
80°	31.3	30.5	29.7	28.7	27.7	26.6	25.5	24.2	22.9	21.7	20.7
77.5°	53.1	51.0	48.5	45.9	43.0	39.9	36.5	33.7	32.0	30.3	28.5
75°	92.8	88.0	82.7	76.8	70.5	63.7	58.7	54.4	49.9	45.1	40.2
72.5°	151.7	143.6	134.5	124.6	113.8	105.0	96.4	87.3	77.7	67.6	59.1
70°	251.1	233.2	213.4	191.7	175.1	161.8	147.6	132.5	116.5	103.3	91.2
67.5°	399.7	372.1	341.5	311.0	284.3	255.6	224.9	192.4	169.9	151.0	131.2
65°	589.4	550.6	507.8	469.8	429.0	385.2	338.5	297.2	258.9	218.7	179.7
62.5°	819.4	766.8	713.9	661.8	605.4	544.8	485.3	430.5	372.9	314.3	268.0
60°	1090.7	1023.5	959.1	888.9	813.0	732.8	661.8	586.7	507.8	441.1	372.1
57.5°	1398.4	1318.8	1237.3	1148.3	1052.2	959.1	864.4	764.4	673.6	583.6	493.1
55°	1737.3	1648.0	1546.9	1436.7	1321.7	1209.6	1090.7	972.9	859.0	740.1	638.5
52.5°	2030.2	1944.1	1849.3	1746.0	1620.8	1483.0	1338.4	1202.9	1060.9	927.5	794.6
50°	2167.8	2126.1	2080.1	2013.2	1893.0	1764.8	1614.1	1448.5	1284.2	1125.4	969.0
47.5°	2471.8	2354.4	2225.5	2148.2	2090.3	2009.9	1864.1	1709.3	1523.9	1333.5	1157.9
45°	3346.3	2938.2	2538.4	2387.8	2226.3	2136.3	2066.6	1931.3	1760.9	1561.9	1350.0
42.5°	6496.1	4636.0	3483.9	2963.3	2512.2	2328.8	2167.5	2089.7	1965.2	1777.5	1561.9
40°	10795.3	8912.7	6730.7	4372.6	3307.8	2677.9	2391.0	2183.2	2097.4	1965.2	1760.9
37.5°	14759.6	12872.6	10666.2	8261.2	5575.2	3517.4	2815.0	2411.9	2183.2	2089.7	1931.3
35°	18400.2	16424.8	14307.2	11859.2	9170.9	6183.3	3587.8	2815.0	2391.0	2167.5	2066.6
32.5°	22099.2	19913.0	17560.8	15138.6	12463.2	9465.1	6183.3	3517.4	2677.9	2328.8	2136.3
30°	26187.3	23520.7	20839.0	18150.2	15418.2	12463.2	9170.9	5575.2	3307.8	2512.2	2226.3
27.5°	31185.7	27344.9	24252.6	21150.8	18150.2	15138.6	11859.2	8261.2	4372.6	2963.3	2387.8
25°	37662.8	32251.7	27857.7	24252.6	20839.0	17560.8	14307.2	10666.2	6730.7	3483.9	2538.4
22.5°	45344.0	38524.9	32251.7	27344.9	23520.7	19913.0	16424.8	12872.6	8912.7	4636.0	2938.2
20°	52769.9	45344.0	37662.8	31185.7	26187.3	22099.2	18400.2	14759.6	10795.3	6496.1	3346.3
17.5°	59695.8	51795.4	43522.9	35113.2	29094.2	24340.0	20244.7	16400.5	12493.6	8170.0	3712.9
15°	66159.1	57662.3	48922.1	40001.7	32025.6	26356.9	21885.3	17857.2	13950.2	9596.2	4930.5
12.5°	72618.4	62855.7	53700.0	44289.6	34909.0	28401.1	23450.2	19165.4	15107.6	10788.2	6099.9
10°	78415.7	67568.4	57736.5	47981.4	38214.0	30369.1	24796.1	20254.7	16069.4	11776.8	7068.2
7.5°	83874.8	71640.1	60972.3	50932.3	40844.3	31930.0	25860.8	21114.4	16826.9	12554.3	7828.7
5°	87930.6	74641.9	63344.1	53085.6	42757.0	33062.0	26631.2	21735.3	17373.3	13114.3	8376.0
2.5°	90433.3	76483.4	64793.0	54396.9	43919.0	33748.3	27097.6	22110.8	17703.3	13452.3	8706.0
0°	91279.8	77104.4	65280.4	54837.3	44308.7	33978.3	27253.7	22236.4	17813.7	13565.3	8816.3
-2.5°	90433.3	76483.4	64793.0	54396.9	43919.0	33748.3	27097.6	22110.8	17703.3	13452.3	8706.0
-5°	87930.6	74641.9	63344.1	53085.6	42757.0	33062.0	26631.2	21735.3	17373.3	13114.3	8376.0
-7.5°	83874.8	71640.1	60972.3	50932.3	40844.3	31930.0	25860.8	21114.4	16826.9	12554.3	7828.7
-10°	78415.7	67568.4	57736.5	47981.4	38214.0	30369.1	24796.1	20254.7	16069.4	11776.8	7068.2
-12.5°	72618.4	62855.7	53700.0	44289.6	34909.0	28401.1	23450.2	19165.4	15107.6	10788.2	6099.9
-15°	66159.1	57662.3	48922.1	40001.7	32025.6	26356.9	21885.3	17857.2	13950.2	9596.2	4930.5
-17.5°	59695.8	51795.4	43522.9	35113.2	29094.2	24340.0	20244.7	16400.5	12493.6	8170.0	3712.9
-20°	52769.9	45344.0	37662.8	31185.7	26187.3	22099.2	18400.2	14759.6	10795.3	6496.1	3346.3



REPORT NUMBER: P731280 (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°	45344.0	38524.9	32251.7	27344.9	23520.7	19913.0	16424.8	12872.6	8912.7	4636.0	2938.2
-25°	37662.8	32251.7	27857.7	24252.6	20839.0	17560.8	14307.2	10666.2	6730.7	3483.9	2538.4
-27.5°	31185.7	27344.9	24252.6	21150.8	18150.2	15138.6	11859.2	8261.2	4372.6	2963.3	2387.8
-30°	26187.3	23520.7	20839.0	18150.2	15418.2	12463.2	9170.9	5575.2	3307.8	2512.2	2226.3
-32.5°	22099.2	19913.0	17560.8	15138.6	12463.2	9465.1	6183.3	3517.4	2677.9	2328.8	2136.3
-35°	18400.2	16424.8	14307.2	11859.2	9170.9	6183.3	3587.8	2815.0	2391.0	2167.5	2066.6
-37.5°	14759.6	12872.6	10666.2	8261.2	5575.2	3517.4	2815.0	2411.9	2183.2	2089.7	1931.3
-40°	10795.3	8912.7	6730.7	4372.6	3307.8	2677.9	2391.0	2183.2	2097.4	1965.2	1760.9
-42.5°	6496.1	4636.0	3483.9	2963.3	2512.2	2328.8	2167.5	2089.7	1965.2	1777.5	1561.9
-45°	3346.3	2938.2	2538.4	2387.8	2226.3	2136.3	2066.6	1931.3	1760.9	1561.9	1350.0
-47.5°	2471.8	2354.4	2225.5	2148.2	2090.3	2009.9	1864.1	1709.3	1523.9	1333.5	1157.9
-50°	2167.8	2126.1	2080.1	2013.2	1893.0	1764.8	1614.1	1448.5	1284.2	1125.4	969.0
-52.5°	2030.2	1944.1	1849.3	1746.0	1620.8	1483.0	1338.4	1202.9	1060.9	927.5	794.6
-55°	1737.3	1648.0	1546.9	1436.7	1321.7	1209.6	1090.7	972.9	859.0	740.1	638.5
-57.5°	1398.4	1318.8	1237.3	1148.3	1052.2	959.1	864.4	764.4	673.6	583.6	493.1
-60°	1090.7	1023.5	959.1	888.9	813.0	732.8	661.8	586.7	507.8	441.1	372.1
-62.5°	819.4	766.8	713.9	661.8	605.4	544.8	485.3	430.5	372.9	314.3	268.0
-65°	589.4	550.6	507.8	469.8	429.0	385.2	338.5	297.2	258.9	218.7	179.7
-67.5°	399.7	372.1	341.5	311.0	284.3	255.6	224.9	192.4	169.9	151.0	131.2
-70°	251.1	233.2	213.4	191.7	175.1	161.8	147.6	132.5	116.5	103.3	91.2
-72.5°	151.7	143.6	134.5	124.6	113.8	105.0	96.4	87.3	77.7	67.6	59.1
-75°	92.8	88.0	82.7	76.8	70.5	63.7	58.7	54.4	49.9	45.1	40.2
-77.5°	53.1	51.0	48.5	45.9	43.0	39.9	36.5	33.7	32.0	30.3	28.5
-80°	31.3	30.5	29.7	28.7	27.7	26.6	25.5	24.2	22.9	21.7	20.7
-82.5°	20.7	20.2	19.8	19.3	18.8	18.2	17.6	16.9	16.2	15.5	14.7
-85°	12.9	12.6	12.4	12.1	11.8	11.5	11.2	10.8	10.5	10.1	9.7
-87.5°	6.4	6.3	6.2	6.0	5.9	5.7	5.6	5.4	5.2	5.0	4.8
-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: P731280 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-5S-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°	4.6	4.4	4.1	3.9	3.7	3.4	3.1	2.9	2.6	2.3	2.0
85°	9.2	8.8	8.3	7.8	7.3	6.8	6.3	5.7	5.2	4.6	4.1
82.5°	13.9	13.2	12.5	11.8	11.0	10.2	9.4	8.6	7.8	7.0	6.1
80°	19.6	18.5	17.3	16.1	14.9	13.6	12.6	11.5	10.4	9.3	8.2
77.5°	26.6	24.6	22.5	20.9	19.4	17.8	16.2	14.5	13.0	11.6	10.2
75°	35.0	32.2	29.7	27.2	24.6	22.0	20.0	18.1	16.0	14.0	12.2
72.5°	53.0	46.7	40.2	33.9	30.8	27.7	24.5	21.5	19.2	16.8	14.3
70°	78.6	65.5	56.2	48.5	40.6	33.5	29.8	26.1	22.3	19.5	16.8
67.5°	110.8	96.0	80.8	65.1	54.6	45.5	36.1	30.9	26.6	22.3	19.2
65°	156.8	133.0	109.3	91.8	73.9	58.2	47.9	37.4	30.9	26.1	21.5
62.5°	219.9	176.2	149.2	121.4	98.5	78.3	59.4	47.9	36.1	29.8	24.5
60°	305.5	251.1	195.0	158.9	127.9	100.7	78.3	58.2	45.5	33.5	27.7
57.5°	415.2	334.8	270.0	207.5	162.2	127.9	98.5	73.9	54.6	40.6	30.8
55°	533.6	441.4	352.1	276.3	207.5	158.9	121.4	91.8	65.1	48.5	33.9
52.5°	671.7	555.6	450.1	352.1	270.0	195.0	149.2	109.3	80.8	56.2	40.2
50°	822.0	682.8	555.6	441.4	334.8	251.1	176.2	133.0	96.0	65.5	46.7
47.5°	982.9	822.0	671.7	533.6	415.2	305.5	219.9	156.8	110.8	78.6	53.0
45°	1157.9	969.0	794.6	638.5	493.1	372.1	268.0	179.7	131.2	91.2	59.1
42.5°	1333.5	1125.4	927.5	740.1	583.6	441.1	314.3	218.7	151.0	103.3	67.6
40°	1523.9	1284.2	1060.9	859.0	673.6	507.8	372.9	258.9	169.9	116.5	77.7
37.5°	1709.3	1448.5	1202.9	972.9	764.4	586.7	430.5	297.2	192.4	132.5	87.3
35°	1864.1	1614.1	1338.4	1090.7	864.4	661.8	485.3	338.5	224.9	147.6	96.4
32.5°	2009.9	1764.8	1483.0	1209.6	959.1	732.8	544.8	385.2	255.6	161.8	105.0
30°	2090.3	1893.0	1620.8	1321.7	1052.2	813.0	605.4	429.0	284.3	175.1	113.8
27.5°	2148.2	2013.2	1746.0	1436.7	1148.3	888.9	661.8	469.8	311.0	191.7	124.6
25°	2225.5	2080.1	1849.3	1546.9	1237.3	959.1	713.9	507.8	341.5	213.4	134.5
22.5°	2354.4	2126.1	1944.1	1648.0	1318.8	1023.5	766.8	550.6	372.1	233.2	143.6
20°	2471.8	2167.8	2030.2	1737.3	1398.4	1090.7	819.4	589.4	399.7	251.1	151.7
17.5°	2614.9	2233.5	2072.1	1807.9	1473.1	1150.6	866.2	623.8	424.3	267.0	158.9
15°	2912.4	2318.6	2102.2	1869.6	1538.5	1202.9	907.1	653.9	445.7	280.8	165.3
12.5°	3167.3	2391.5	2128.0	1922.4	1594.3	1247.5	941.9	679.5	464.0	292.6	170.6
10°	3378.1	2451.6	2149.2	1965.9	1640.2	1284.2	970.6	700.5	479.0	302.3	175.0
7.5°	3543.4	2498.8	2165.9	1999.9	1676.1	1312.9	993.0	717.0	490.7	309.9	178.5
5°	3662.3	2532.7	2177.8	2024.3	1701.9	1333.5	1009.0	728.8	499.1	315.3	180.9
2.5°	3734.0	2553.1	2185.0	2039.0	1717.4	1345.9	1018.7	735.8	504.1	318.5	182.4
0°	3757.9	2559.9	2187.4	2043.9	1722.6	1350.0	1021.9	738.2	505.8	319.6	182.9
-2.5°	3734.0	2553.1	2185.0	2039.0	1717.4	1345.9	1018.7	735.8	504.1	318.5	182.4
-5°	3662.3	2532.7	2177.8	2024.3	1701.9	1333.5	1009.0	728.8	499.1	315.3	180.9
-7.5°	3543.4	2498.8	2165.9	1999.9	1676.1	1312.9	993.0	717.0	490.7	309.9	178.5
-10°	3378.1	2451.6	2149.2	1965.9	1640.2	1284.2	970.6	700.5	479.0	302.3	175.0
-12.5°	3167.3	2391.5	2128.0	1922.4	1594.3	1247.5	941.9	679.5	464.0	292.6	170.6
-15°	2912.4	2318.6	2102.2	1869.6	1538.5	1202.9	907.1	653.9	445.7	280.8	165.3
-17.5°	2614.9	2233.5	2072.1	1807.9	1473.1	1150.6	866.2	623.8	424.3	267.0	158.9
-20°	2471.8	2167.8	2030.2	1737.3	1398.4	1090.7	819.4	589.4	399.7	251.1	151.7



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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°	2354.4	2126.1	1944.1	1648.0	1318.8	1023.5	766.8	550.6	372.1	233.2	143.6
-25°	2225.5	2080.1	1849.3	1546.9	1237.3	959.1	713.9	507.8	341.5	213.4	134.5
-27.5°	2148.2	2013.2	1746.0	1436.7	1148.3	888.9	661.8	469.8	311.0	191.7	124.6
-30°	2090.3	1893.0	1620.8	1321.7	1052.2	813.0	605.4	429.0	284.3	175.1	113.8
-32.5°	2009.9	1764.8	1483.0	1209.6	959.1	732.8	544.8	385.2	255.6	161.8	105.0
-35°	1864.1	1614.1	1338.4	1090.7	864.4	661.8	485.3	338.5	224.9	147.6	96.4
-37.5°	1709.3	1448.5	1202.9	972.9	764.4	586.7	430.5	297.2	192.4	132.5	87.3
-40°	1523.9	1284.2	1060.9	859.0	673.6	507.8	372.9	258.9	169.9	116.5	77.7
-42.5°	1333.5	1125.4	927.5	740.1	583.6	441.1	314.3	218.7	151.0	103.3	67.6
-45°	1157.9	969.0	794.6	638.5	493.1	372.1	268.0	179.7	131.2	91.2	59.1
-47.5°	982.9	822.0	671.7	533.6	415.2	305.5	219.9	156.8	110.8	78.6	53.0
-50°	822.0	682.8	555.6	441.4	334.8	251.1	176.2	133.0	96.0	65.5	46.7
-52.5°	671.7	555.6	450.1	352.1	270.0	195.0	149.2	109.3	80.8	56.2	40.2
-55°	533.6	441.4	352.1	276.3	207.5	158.9	121.4	91.8	65.1	48.5	33.9
-57.5°	415.2	334.8	270.0	207.5	162.2	127.9	98.5	73.9	54.6	40.6	30.8
-60°	305.5	251.1	195.0	158.9	127.9	100.7	78.3	58.2	45.5	33.5	27.7
-62.5°	219.9	176.2	149.2	121.4	98.5	78.3	59.4	47.9	36.1	29.8	24.5
-65°	156.8	133.0	109.3	91.8	73.9	58.2	47.9	37.4	30.9	26.1	21.5
-67.5°	110.8	96.0	80.8	65.1	54.6	45.5	36.1	30.9	26.6	22.3	19.2
-70°	78.6	65.5	56.2	48.5	40.6	33.5	29.8	26.1	22.3	19.5	16.8
-72.5°	53.0	46.7	40.2	33.9	30.8	27.7	24.5	21.5	19.2	16.8	14.3
-75°	35.0	32.2	29.7	27.2	24.6	22.0	20.0	18.1	16.0	14.0	12.2
-77.5°	26.6	24.6	22.5	20.9	19.4	17.8	16.2	14.5	13.0	11.6	10.2
-80°	19.6	18.5	17.3	16.1	14.9	13.6	12.6	11.5	10.4	9.3	8.2
-82.5°	13.9	13.2	12.5	11.8	11.0	10.2	9.4	8.6	7.8	7.0	6.1
-85°	9.2	8.8	8.3	7.8	7.3	6.8	6.3	5.7	5.2	4.6	4.1
-87.5°	4.6	4.4	4.1	3.9	3.7	3.4	3.1	2.9	2.6	2.3	2.0
-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°	1.8	1.5	1.2	0.9	0.6	0.3	0.0
85°	3.5	2.9	2.4	1.8	1.2	0.6	0.0
82.5°	5.3	4.4	3.5	2.7	1.8	0.9	0.0
80°	7.0	5.9	4.7	3.5	2.4	1.2	0.0
77.5°	8.8	7.3	5.9	4.4	2.9	1.5	0.0
75°	10.5	8.8	7.0	5.3	3.5	1.8	0.0
72.5°	12.2	10.2	8.2	6.1	4.1	2.0	0.0
70°	14.0	11.6	9.3	7.0	4.6	2.3	0.0
67.5°	16.0	13.0	10.4	7.8	5.2	2.6	0.0
65°	18.1	14.5	11.5	8.6	5.7	2.9	0.0
62.5°	20.0	16.2	12.6	9.4	6.3	3.1	0.0
60°	22.0	17.8	13.6	10.2	6.8	3.4	0.0
57.5°	24.6	19.4	14.9	11.0	7.3	3.7	0.0
55°	27.2	20.9	16.1	11.8	7.8	3.9	0.0
52.5°	29.7	22.5	17.3	12.5	8.3	4.1	0.0
50°	32.2	24.6	18.5	13.2	8.8	4.4	0.0
47.5°	35.0	26.6	19.6	13.9	9.2	4.6	0.0
45°	40.2	28.5	20.7	14.7	9.7	4.8	0.0
42.5°	45.1	30.3	21.7	15.5	10.1	5.0	0.0
40°	49.9	32.0	22.9	16.2	10.5	5.2	0.0
37.5°	54.4	33.7	24.2	16.9	10.8	5.4	0.0
35°	58.7	36.5	25.5	17.6	11.2	5.6	0.0
32.5°	63.7	39.9	26.6	18.2	11.5	5.7	0.0
30°	70.5	43.0	27.7	18.8	11.8	5.9	0.0
27.5°	76.8	45.9	28.7	19.3	12.1	6.0	0.0
25°	82.7	48.5	29.7	19.8	12.4	6.2	0.0
22.5°	88.0	51.0	30.5	20.2	12.6	6.3	0.0
20°	92.8	53.1	31.3	20.7	12.9	6.4	0.0
17.5°	97.0	55.1	32.0	21.0	13.1	6.5	0.0
15°	100.7	56.8	32.5	21.3	13.2	6.6	0.0
12.5°	103.9	58.2	33.1	21.6	13.4	6.6	0.0
10°	106.5	59.4	33.5	21.8	13.5	6.7	0.0
7.5°	108.5	60.3	33.8	22.0	13.6	6.7	0.0
5°	109.9	61.0	34.0	22.1	13.6	6.8	0.0
2.5°	110.8	61.4	34.2	22.2	13.7	6.8	0.0
0°	111.1	61.5	34.2	22.2	13.7	6.8	0.0
-2.5°	110.8	61.4	34.2	22.2	13.7	6.8	0.0
-5°	109.9	61.0	34.0	22.1	13.6	6.8	0.0
-7.5°	108.5	60.3	33.8	22.0	13.6	6.7	0.0
-10°	106.5	59.4	33.5	21.8	13.5	6.7	0.0
-12.5°	103.9	58.2	33.1	21.6	13.4	6.6	0.0
-15°	100.7	56.8	32.5	21.3	13.2	6.6	0.0
-17.5°	97.0	55.1	32.0	21.0	13.1	6.5	0.0
-20°	92.8	53.1	31.3	20.7	12.9	6.4	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	88.0	51.0	30.5	20.2	12.6	6.3	0.0
-25°	82.7	48.5	29.7	19.8	12.4	6.2	0.0
-27.5°	76.8	45.9	28.7	19.3	12.1	6.0	0.0
-30°	70.5	43.0	27.7	18.8	11.8	5.9	0.0
-32.5°	63.7	39.9	26.6	18.2	11.5	5.7	0.0
-35°	58.7	36.5	25.5	17.6	11.2	5.6	0.0
-37.5°	54.4	33.7	24.2	16.9	10.8	5.4	0.0
-40°	49.9	32.0	22.9	16.2	10.5	5.2	0.0
-42.5°	45.1	30.3	21.7	15.5	10.1	5.0	0.0
-45°	40.2	28.5	20.7	14.7	9.7	4.8	0.0
-47.5°	35.0	26.6	19.6	13.9	9.2	4.6	0.0
-50°	32.2	24.6	18.5	13.2	8.8	4.4	0.0
-52.5°	29.7	22.5	17.3	12.5	8.3	4.1	0.0
-55°	27.2	20.9	16.1	11.8	7.8	3.9	0.0
-57.5°	24.6	19.4	14.9	11.0	7.3	3.7	0.0
-60°	22.0	17.8	13.6	10.2	6.8	3.4	0.0
-62.5°	20.0	16.2	12.6	9.4	6.3	3.1	0.0
-65°	18.1	14.5	11.5	8.6	5.7	2.9	0.0
-67.5°	16.0	13.0	10.4	7.8	5.2	2.6	0.0
-70°	14.0	11.6	9.3	7.0	4.6	2.3	0.0
-72.5°	12.2	10.2	8.2	6.1	4.1	2.0	0.0
-75°	10.5	8.8	7.0	5.3	3.5	1.8	0.0
-77.5°	8.8	7.3	5.9	4.4	2.9	1.5	0.0
-80°	7.0	5.9	4.7	3.5	2.4	1.2	0.0
-82.5°	5.3	4.4	3.5	2.7	1.8	0.9	0.0
-85°	3.5	2.9	2.4	1.8	1.2	0.6	0.0
-87.5°	1.8	1.5	1.2	0.9	0.6	0.3	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

