

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: P701472 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-40-80-4S-HEG-S**

Issue Date: 8/15/2023

Test Information

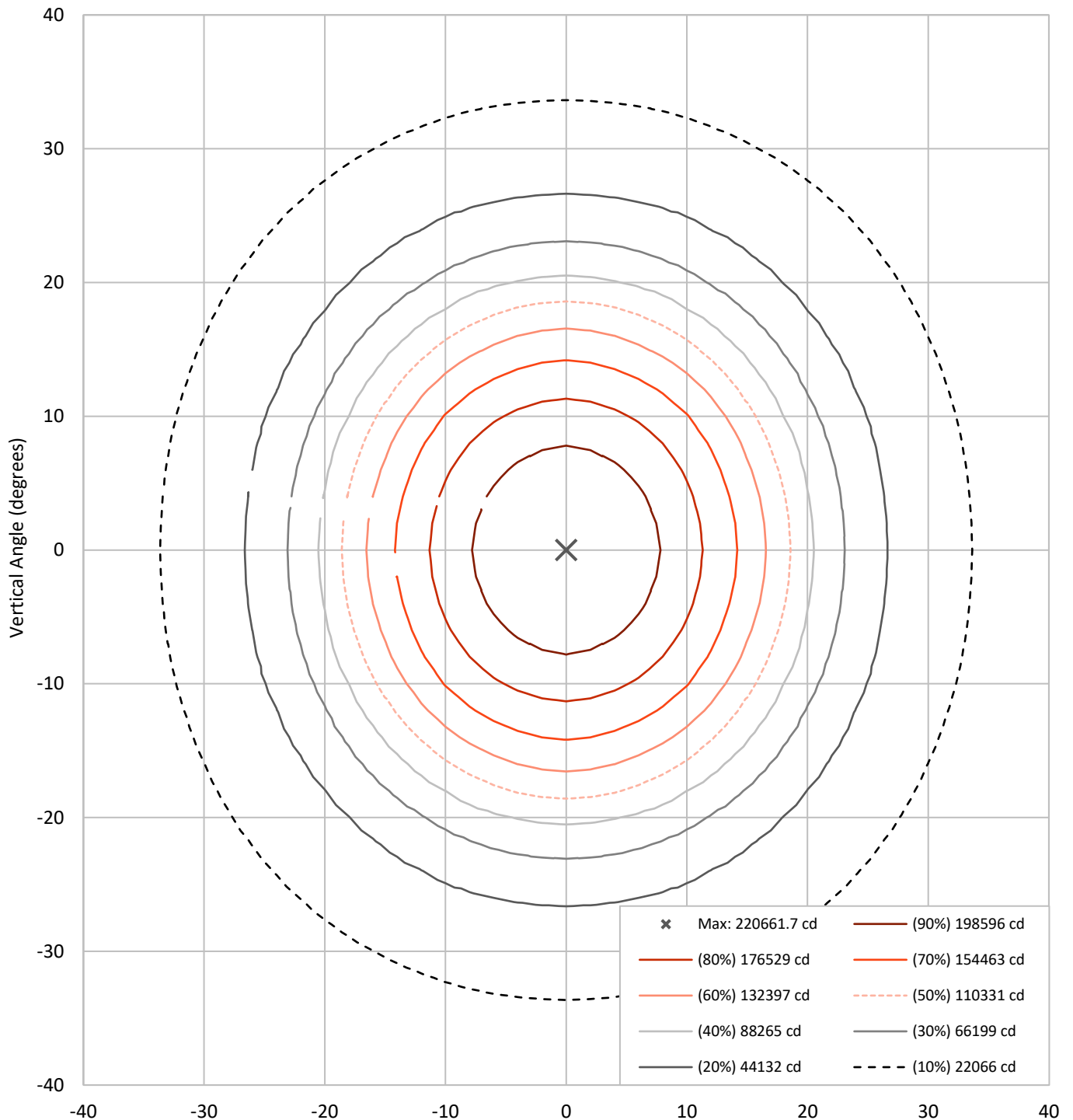
Test Method: LM-79-08
Report Number: P701472 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-4)
Test Lab: INNOVATION CENTER
Issue Date: 8/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680R-40-80-4S-HEG-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 4S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	101903.6 lumens	Max Intensity:	220661.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	146.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	37.2°H x 37.2°V	Field Angle (10%):	67.2°H x 67.2°V
Beam Lumens:	53050.1 lumens	Field Lumens:	89115.3 lumens
Beam Efficiency:	52.1%	Field Efficiency:	87.5%
Input Watts (W):	697.5		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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Iso-Candela Plot





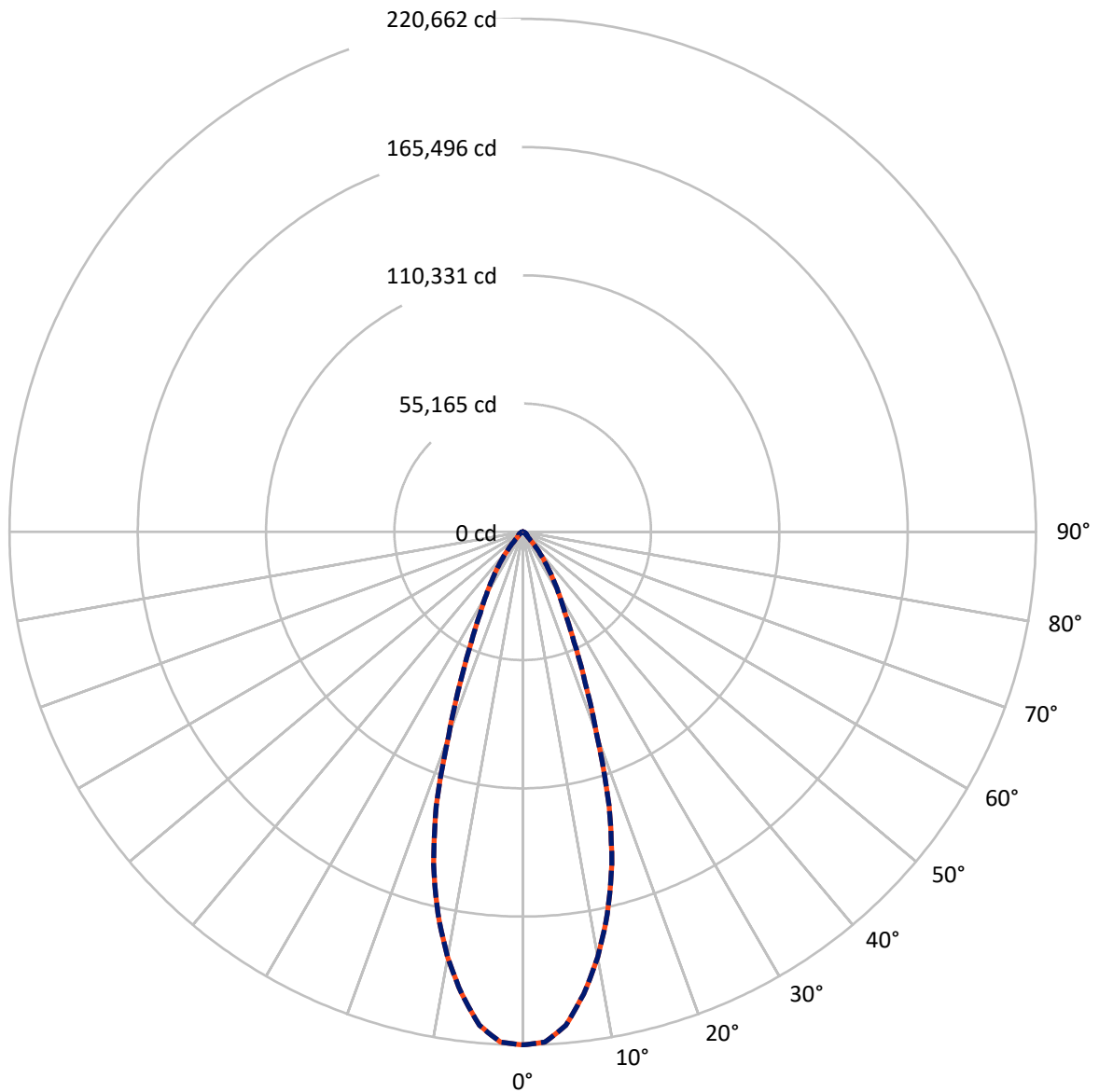
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Lumen Table

90															90				
80	0.1	0.8		3.0		7.2		9.4		7.2		3.0		0.8		0.1			
70															70				
60	0.4	0.5	1.8	5.1	10.6	17.2	23.0	26.3	26.3	23.0	17.2	10.6	5.1	1.8	0.5	0.4			
50		1.4	6.0	16.4	30.1	42.3	51.3	56.3	56.3	51.3	42.3	30.1	16.4	6.0	1.4				
40	1.0	3.1	13.4	30.5	47.5	65.9	94.7	124.9	124.9	94.7	65.9	47.5	30.5	13.4	3.1	1.0			
30		5.7	21.3	41.1	71.3	191.7	405.6	562.6	562.6	405.6	191.7	71.3	41.1	21.3	5.7				
20	2.1	8.3	27.0	51.6	174.5	545.3	1066.5	1585.8	1585.8	1066.5	545.3	174.5	51.6	27.0	8.3	2.1			
10		10.4	30.7	70.1	347.4	1004.2	2486.8	4082.3	4082.3	2486.8	1004.2	347.4	70.1	30.7	10.4				
0	2.6	11.6	32.7	90.4	467.6	1452.0	3966.9	5975.4	5975.4	3966.9	1452.0	467.6	90.4	32.7	11.6	2.6			
-10		11.6	32.7	90.4	467.6	1452.0	3966.9	5975.4	5975.4	3966.9	1452.0	467.6	90.4	32.7	11.6				
-20	2.1	10.4	30.7	70.1	347.4	1004.2	2486.8	4082.3	4082.3	2486.8	1004.2	347.4	70.1	30.7	10.4	2.1			
-30		8.3	27.0	51.6	174.5	545.3	1066.5	1585.8	1585.8	1066.5	545.3	174.5	51.6	27.0	8.3				
-40	1.0	5.7	21.3	41.1	71.3	191.7	405.6	562.6	562.6	405.6	191.7	71.3	41.1	21.3	5.7	1.0			
-50		3.1	13.4	30.5	47.5	65.9	94.7	124.9	124.9	94.7	65.9	47.5	30.5	13.4	3.1				
-60	0.4	1.4	6.0	16.4	30.1	42.3	51.3	56.3	56.3	51.3	42.3	30.1	16.4	6.0	1.4	0.4			
-70		0.5	1.8	5.1	10.6	17.2	23.0	26.3	26.3	23.0	17.2	10.6	5.1	1.8	0.5				
-80															-80				
-90	0.1	0.8		3.0		7.2		9.4		7.2		3.0		0.8		0.1			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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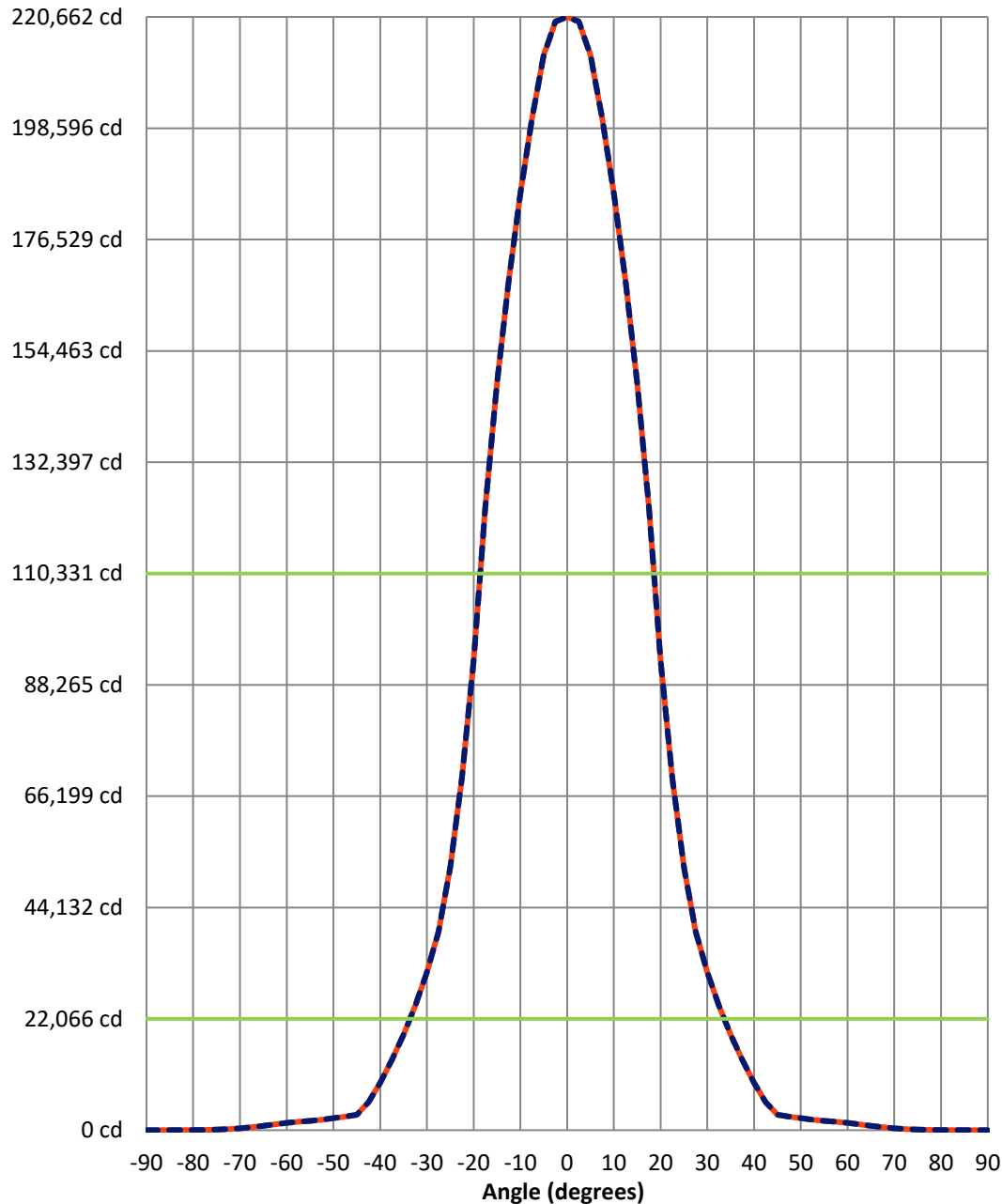
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 37.2°
V Angle: 37.2°
Lumens: 53050.1
Efficiency: 52.1%

Field:
H Angle: 67.2°
V Angle: 67.2°
Lumens: 89115.3
Efficiency: 87.5%

Spill:
Lumens: 12788.3
Efficiency: 12.5%

- 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	0.2	0.4	0.7	0.9	1.1	1.3	1.5	1.7	2.0	2.2
85°	0.0	0.4	0.9	1.3	1.8	2.2	2.6	3.1	3.5	3.9	4.3
82.5°	0.0	0.7	1.3	2.0	2.6	3.3	3.9	4.6	5.2	5.8	6.5
80°	0.0	0.9	1.8	2.6	3.5	4.4	5.3	6.1	6.9	7.8	8.6
77.5°	0.0	1.1	2.2	3.3	4.4	5.5	6.6	7.6	8.7	9.7	11.0
75°	0.0	1.3	2.6	3.9	5.3	6.6	7.8	9.1	10.5	12.5	14.6
72.5°	0.0	1.5	3.1	4.6	6.1	7.6	9.1	10.8	13.3	15.7	18.0
70°	0.0	1.7	3.5	5.2	6.9	8.7	10.5	13.3	16.0	18.8	21.4
67.5°	0.0	2.0	3.9	5.8	7.8	9.7	12.5	15.7	18.8	21.8	24.8
65°	0.0	2.2	4.3	6.5	8.6	11.0	14.6	18.0	21.4	24.8	30.2
62.5°	0.0	2.4	4.7	7.0	9.4	12.7	16.5	20.3	24.0	29.0	40.7
60°	0.0	2.5	5.1	7.6	10.2	14.3	18.5	22.6	26.6	38.3	51.0
57.5°	0.0	2.7	5.5	8.2	11.4	15.9	20.4	24.7	33.5	47.4	70.8
55°	0.0	2.9	5.8	8.8	12.6	17.4	22.2	26.9	41.4	59.0	94.7
52.5°	0.0	3.1	6.2	9.3	13.8	18.9	24.0	33.1	49.0	80.0	118.0
50°	0.0	3.3	6.6	9.8	15.0	20.4	25.7	39.6	59.6	100.3	148.3
47.5°	0.0	3.4	6.9	10.4	16.1	21.8	27.9	45.8	77.0	120.0	178.6
45°	0.0	3.6	7.2	11.2	17.2	23.1	33.0	51.9	93.8	146.0	207.9
42.5°	0.0	3.8	7.5	12.0	18.2	24.4	38.0	62.5	110.0	171.3	252.9
40°	0.0	3.9	7.8	12.7	19.2	25.6	42.7	75.9	127.3	195.4	298.8
37.5°	0.0	4.0	8.1	13.4	20.1	26.7	47.2	88.7	147.7	222.9	342.5
35°	0.0	4.2	8.4	14.1	21.0	29.4	51.5	100.8	166.9	260.0	390.9
32.5°	0.0	4.3	8.6	14.7	21.8	32.7	57.2	112.2	185.1	295.0	447.0
30°	0.0	4.4	8.8	15.3	22.6	35.8	66.3	123.9	202.1	327.8	499.7
27.5°	0.0	4.5	9.0	15.8	23.3	38.7	74.7	137.6	222.0	358.3	548.7
25°	0.0	4.6	9.2	16.3	23.9	41.4	82.5	150.3	246.8	394.4	594.3
22.5°	0.0	4.7	9.4	16.7	24.5	43.8	89.6	161.8	269.5	431.2	644.0
20°	0.0	4.8	9.6	17.2	25.1	46.0	96.0	172.2	289.9	464.5	689.0
17.5°	0.0	4.9	9.7	17.5	25.5	47.9	101.6	181.4	308.0	494.0	729.0
15°	0.0	4.9	9.9	17.8	25.9	49.6	106.6	189.5	323.8	519.8	763.8
12.5°	0.0	5.0	10.0	18.1	26.3	51.0	110.8	196.3	337.3	541.7	793.6
10°	0.0	5.0	10.0	18.3	26.6	52.2	114.2	202.0	348.3	559.8	818.0
7.5°	0.0	5.1	10.1	18.5	26.8	53.1	116.9	206.3	357.0	573.8	837.1
5°	0.0	5.1	10.2	18.6	27.0	53.8	118.9	209.5	363.1	583.9	850.7
2.5°	0.0	5.1	10.2	18.7	27.1	54.2	120.0	211.4	366.9	590.0	859.0
0°	0.0	5.1	10.2	18.7	27.1	54.2	120.0	211.4	366.9	590.0	859.0
-2.5°	0.0	5.1	10.2	18.7	27.1	54.2	120.0	211.4	366.9	590.0	859.0
-5°	0.0	5.1	10.2	18.6	27.0	53.8	118.9	209.5	363.1	583.9	850.7
-7.5°	0.0	5.1	10.1	18.5	26.8	53.1	116.9	206.3	357.0	573.8	837.1
-10°	0.0	5.0	10.0	18.3	26.6	52.2	114.2	202.0	348.3	559.8	818.0
-12.5°	0.0	5.0	10.0	18.1	26.3	51.0	110.8	196.3	337.3	541.7	793.6
-15°	0.0	4.9	9.9	17.8	25.9	49.6	106.6	189.5	323.8	519.8	763.8
-17.5°	0.0	4.9	9.7	17.5	25.5	47.9	101.6	181.4	308.0	494.0	729.0
-20°	0.0	4.8	9.6	17.2	25.1	46.0	96.0	172.2	289.9	464.5	689.0



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 CATALOG NUMBER: EPH-LS-08-0680R-40-80-4S-HEG-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	4.7	9.4	16.7	24.5	43.8	89.6	161.8	269.5	431.2	644.0
-25°	0.0	4.6	9.2	16.3	23.9	41.4	82.5	150.3	246.8	394.4	594.3
-27.5°	0.0	4.5	9.0	15.8	23.3	38.7	74.7	137.6	222.0	358.3	548.7
-30°	0.0	4.4	8.8	15.3	22.6	35.8	66.3	123.9	202.1	327.8	499.7
-32.5°	0.0	4.3	8.6	14.7	21.8	32.7	57.2	112.2	185.1	295.0	447.0
-35°	0.0	4.2	8.4	14.1	21.0	29.4	51.5	100.8	166.9	260.0	390.9
-37.5°	0.0	4.0	8.1	13.4	20.1	26.7	47.2	88.7	147.7	222.9	342.5
-40°	0.0	3.9	7.8	12.7	19.2	25.6	42.7	75.9	127.3	195.4	298.8
-42.5°	0.0	3.8	7.5	12.0	18.2	24.4	38.0	62.5	110.0	171.3	252.9
-45°	0.0	3.6	7.2	11.2	17.2	23.1	33.0	51.9	93.8	146.0	207.9
-47.5°	0.0	3.4	6.9	10.4	16.1	21.8	27.9	45.8	77.0	120.0	178.6
-50°	0.0	3.3	6.6	9.8	15.0	20.4	25.7	39.6	59.6	100.3	148.3
-52.5°	0.0	3.1	6.2	9.3	13.8	18.9	24.0	33.1	49.0	80.0	118.0
-55°	0.0	2.9	5.8	8.8	12.6	17.4	22.2	26.9	41.4	59.0	94.7
-57.5°	0.0	2.7	5.5	8.2	11.4	15.9	20.4	24.7	33.5	47.4	70.8
-60°	0.0	2.5	5.1	7.6	10.2	14.3	18.5	22.6	26.6	38.3	51.0
-62.5°	0.0	2.4	4.7	7.0	9.4	12.7	16.5	20.3	24.0	29.0	40.7
-65°	0.0	2.2	4.3	6.5	8.6	11.0	14.6	18.0	21.4	24.8	30.2
-67.5°	0.0	2.0	3.9	5.8	7.8	9.7	12.5	15.7	18.8	21.8	24.8
-70°	0.0	1.7	3.5	5.2	6.9	8.7	10.5	13.3	16.0	18.8	21.4
-72.5°	0.0	1.5	3.1	4.6	6.1	7.6	9.1	10.8	13.3	15.7	18.0
-75°	0.0	1.3	2.6	3.9	5.3	6.6	7.8	9.1	10.5	12.5	14.6
-77.5°	0.0	1.1	2.2	3.3	4.4	5.5	6.6	7.6	8.7	9.7	11.0
-80°	0.0	0.9	1.8	2.6	3.5	4.4	5.3	6.1	6.9	7.8	8.6
-82.5°	0.0	0.7	1.3	2.0	2.6	3.3	3.9	4.6	5.2	5.8	6.5
-85°	0.0	0.4	0.9	1.3	1.8	2.2	2.6	3.1	3.5	3.9	4.3
-87.5°	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.5	1.7	2.0	2.2
-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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 CATALOG NUMBER: EPH-LS-08-0680R-40-80-4S-HEG-S

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°	2.4	2.5	2.7	2.9	3.1	3.3	3.4	3.6	3.8	3.9	4.0
85°	4.7	5.1	5.5	5.8	6.2	6.6	6.9	7.2	7.5	7.8	8.1
82.5°	7.0	7.6	8.2	8.8	9.3	9.8	10.4	11.2	12.0	12.7	13.4
80°	9.4	10.2	11.4	12.6	13.8	15.0	16.1	17.2	18.2	19.2	20.1
77.5°	12.7	14.3	15.9	17.4	18.9	20.4	21.8	23.1	24.4	25.6	26.7
75°	16.5	18.5	20.4	22.2	24.0	25.7	27.9	33.0	38.0	42.7	47.2
72.5°	20.3	22.6	24.7	26.9	33.1	39.6	45.8	51.9	62.5	75.9	88.7
70°	24.0	26.6	33.5	41.4	49.0	59.6	77.0	93.8	110.0	127.3	147.7
67.5°	29.0	38.3	47.4	59.0	80.0	100.3	120.0	146.0	171.3	195.4	222.9
65°	40.7	51.0	70.8	94.7	118.0	148.3	178.6	207.9	252.9	298.8	342.5
62.5°	52.2	76.7	103.6	133.5	169.0	203.4	254.3	309.2	362.1	432.1	501.5
60°	76.7	106.6	141.8	181.4	225.8	289.9	352.0	431.2	514.2	594.3	685.9
57.5°	103.6	141.8	185.6	240.1	311.4	386.4	483.1	576.7	682.3	786.7	889.4
55°	133.5	181.4	240.1	318.6	407.2	514.5	624.3	746.0	863.7	989.6	1110.1
52.5°	169.0	225.8	311.4	407.2	525.0	649.8	784.5	921.4	1062.1	1196.2	1321.1
50°	203.4	289.9	386.4	514.5	649.8	797.5	950.4	1106.0	1253.0	1392.6	1508.7
47.5°	254.3	352.0	483.1	624.3	784.5	950.4	1120.7	1281.5	1435.9	1553.3	1663.0
45°	309.2	431.2	576.7	746.0	921.4	1106.0	1281.5	1450.4	1575.8	1691.3	1782.2
42.5°	362.1	514.2	682.3	863.7	1062.1	1253.0	1435.9	1575.8	1700.2	1800.2	1914.7
40°	432.1	594.3	786.7	989.6	1196.2	1392.6	1553.3	1691.3	1800.2	1927.0	2062.9
37.5°	501.5	685.9	889.4	1110.1	1321.1	1508.7	1663.0	1782.2	1914.7	2062.9	2262.8
35°	567.4	773.0	995.3	1222.5	1440.2	1606.7	1746.4	1878.2	2038.0	2244.8	2451.2
32.5°	637.2	855.4	1095.5	1327.0	1529.1	1693.4	1824.1	1988.7	2191.3	2418.4	2619.3
30°	707.5	940.8	1188.6	1425.5	1610.6	1761.7	1915.7	2103.1	2349.2	2569.1	2818.2
27.5°	773.0	1021.2	1273.1	1501.7	1683.4	1825.8	2007.4	2242.0	2486.7	2724.6	3027.2
25°	833.6	1095.5	1351.3	1566.9	1738.4	1899.6	2102.4	2371.7	2611.3	2908.1	4030.5
22.5°	892.0	1163.4	1423.0	1626.8	1789.0	1972.4	2213.3	2480.7	2745.1	3120.4	5175.7
20°	947.6	1222.5	1479.0	1678.8	1834.9	2038.5	2314.4	2578.3	2889.9	4097.5	6616.2
17.5°	997.2	1275.1	1523.2	1716.4	1886.9	2109.3	2403.4	2666.0	3020.1	4979.0	8101.6
15°	1040.5	1321.1	1561.9	1749.3	1934.7	2182.6	2474.5	2768.0	3475.2	5883.6	9425.5
12.5°	1077.3	1360.3	1594.9	1777.4	1975.5	2245.2	2535.5	2859.0	4093.8	6931.3	10767.6
10°	1107.7	1392.6	1622.1	1800.6	2009.1	2297.0	2585.9	2934.4	4606.9	7801.9	11885.3
7.5°	1131.4	1417.8	1643.4	1818.7	2035.5	2337.6	2625.5	2993.6	5010.5	8487.6	12767.4
5°	1148.4	1435.9	1658.7	1831.7	2054.4	2366.8	2653.9	3036.1	5301.1	8982.2	13404.5
2.5°	1158.6	1446.8	1667.8	1839.6	2065.8	2384.3	2671.1	3061.8	5476.6	9280.9	13789.7
0°	1162.0	1450.4	1670.9	1842.2	2069.6	2390.2	2676.8	3070.4	5535.2	9380.8	13918.6
-2.5°	1158.6	1446.8	1667.8	1839.6	2065.8	2384.3	2671.1	3061.8	5476.6	9280.9	13789.7
-5°	1148.4	1435.9	1658.7	1831.7	2054.4	2366.8	2653.9	3036.1	5301.1	8982.2	13404.5
-7.5°	1131.4	1417.8	1643.4	1818.7	2035.5	2337.6	2625.5	2993.6	5010.5	8487.6	12767.4
-10°	1107.7	1392.6	1622.1	1800.6	2009.1	2297.0	2585.9	2934.4	4606.9	7801.9	11885.3
-12.5°	1077.3	1360.3	1594.9	1777.4	1975.5	2245.2	2535.5	2859.0	4093.8	6931.3	10767.6
-15°	1040.5	1321.1	1561.9	1749.3	1934.7	2182.6	2474.5	2768.0	3475.2	5883.6	9425.5
-17.5°	997.2	1275.1	1523.2	1716.4	1886.9	2109.3	2403.4	2666.0	3020.1	4979.0	8101.6
-20°	947.6	1222.5	1479.0	1678.8	1834.9	2038.5	2314.4	2578.3	2889.9	4097.5	6616.2



REPORT NUMBER: P701472 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	892.0	1163.4	1423.0	1626.8	1789.0	1972.4	2213.3	2480.7	2745.1	3120.4	5175.7
-25°	833.6	1095.5	1351.3	1566.9	1738.4	1899.6	2102.4	2371.7	2611.3	2908.1	4030.5
-27.5°	773.0	1021.2	1273.1	1501.7	1683.4	1825.8	2007.4	2242.0	2486.7	2724.6	3027.2
-30°	707.5	940.8	1188.6	1425.5	1610.6	1761.7	1915.7	2103.1	2349.2	2569.1	2818.2
-32.5°	637.2	855.4	1095.5	1327.0	1529.1	1693.4	1824.1	1988.7	2191.3	2418.4	2619.3
-35°	567.4	773.0	995.3	1222.5	1440.2	1606.7	1746.4	1878.2	2038.0	2244.8	2451.2
-37.5°	501.5	685.9	889.4	1110.1	1321.1	1508.7	1663.0	1782.2	1914.7	2062.9	2262.8
-40°	432.1	594.3	786.7	989.6	1196.2	1392.6	1553.3	1691.3	1800.2	1927.0	2062.9
-42.5°	362.1	514.2	682.3	863.7	1062.1	1253.0	1435.9	1575.8	1700.2	1800.2	1914.7
-45°	309.2	431.2	576.7	746.0	921.4	1106.0	1281.5	1450.4	1575.8	1691.3	1782.2
-47.5°	254.3	352.0	483.1	624.3	784.5	950.4	1120.7	1281.5	1435.9	1553.3	1663.0
-50°	203.4	289.9	386.4	514.5	649.8	797.5	950.4	1106.0	1253.0	1392.6	1508.7
-52.5°	169.0	225.8	311.4	407.2	525.0	649.8	784.5	921.4	1062.1	1196.2	1321.1
-55°	133.5	181.4	240.1	318.6	407.2	514.5	624.3	746.0	863.7	989.6	1110.1
-57.5°	103.6	141.8	185.6	240.1	311.4	386.4	483.1	576.7	682.3	786.7	889.4
-60°	76.7	106.6	141.8	181.4	225.8	289.9	352.0	431.2	514.2	594.3	685.9
-62.5°	52.2	76.7	103.6	133.5	169.0	203.4	254.3	309.2	362.1	432.1	501.5
-65°	40.7	51.0	70.8	94.7	118.0	148.3	178.6	207.9	252.9	298.8	342.5
-67.5°	29.0	38.3	47.4	59.0	80.0	100.3	120.0	146.0	171.3	195.4	222.9
-70°	24.0	26.6	33.5	41.4	49.0	59.6	77.0	93.8	110.0	127.3	147.7
-72.5°	20.3	22.6	24.7	26.9	33.1	39.6	45.8	51.9	62.5	75.9	88.7
-75°	16.5	18.5	20.4	22.2	24.0	25.7	27.9	33.0	38.0	42.7	47.2
-77.5°	12.7	14.3	15.9	17.4	18.9	20.4	21.8	23.1	24.4	25.6	26.7
-80°	9.4	10.2	11.4	12.6	13.8	15.0	16.1	17.2	18.2	19.2	20.1
-82.5°	7.0	7.6	8.2	8.8	9.3	9.8	10.4	11.2	12.0	12.7	13.4
-85°	4.7	5.1	5.5	5.8	6.2	6.6	6.9	7.2	7.5	7.8	8.1
-87.5°	2.4	2.5	2.7	2.9	3.1	3.3	3.4	3.6	3.8	3.9	4.0
-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):

	-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°	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	4.9	5.0	5.0
85°	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.7	9.9	10.0	10.0
82.5°	14.1	14.7	15.3	15.8	16.3	16.7	17.2	17.5	17.8	18.1	18.3
80°	21.0	21.8	22.6	23.3	23.9	24.5	25.1	25.5	25.9	26.3	26.6
77.5°	29.4	32.7	35.8	38.7	41.4	43.8	46.0	47.9	49.6	51.0	52.2
75°	51.5	57.2	66.3	74.7	82.5	89.6	96.0	101.6	106.6	110.8	114.2
72.5°	100.8	112.2	123.9	137.6	150.3	161.8	172.2	181.4	189.5	196.3	202.0
70°	166.9	185.1	202.1	222.0	246.8	269.5	289.9	308.0	323.8	337.3	348.3
67.5°	260.0	295.0	327.8	358.3	394.4	431.2	464.5	494.0	519.8	541.7	559.8
65°	390.9	447.0	499.7	548.7	594.3	644.0	689.0	729.0	763.8	793.6	818.0
62.5°	567.4	637.2	707.5	773.0	833.6	892.0	947.6	997.2	1040.5	1077.3	1107.7
60°	773.0	855.4	940.8	1021.2	1095.5	1163.4	1222.5	1275.1	1321.1	1360.3	1392.6
57.5°	995.3	1095.5	1188.6	1273.1	1351.3	1423.0	1479.0	1523.2	1561.9	1594.9	1622.1
55°	1222.5	1327.0	1425.5	1501.7	1566.9	1626.8	1678.8	1716.4	1749.3	1777.4	1800.6
52.5°	1440.2	1529.1	1610.6	1683.4	1738.4	1789.0	1834.9	1886.9	1934.7	1975.5	2009.1
50°	1606.7	1693.4	1761.7	1825.8	1899.6	1972.4	2038.5	2109.3	2182.6	2245.2	2297.0
47.5°	1746.4	1824.1	1915.7	2007.4	2102.4	2213.3	2314.4	2403.4	2474.5	2535.5	2585.9
45°	1878.2	1988.7	2103.1	2242.0	2371.7	2480.7	2578.3	2666.0	2768.0	2859.0	2934.4
42.5°	2038.0	2191.3	2349.2	2486.7	2611.3	2745.1	2889.9	3020.1	3475.2	4093.8	4606.9
40°	2244.8	2418.4	2569.1	2724.6	2908.1	3120.4	4097.5	4979.0	5883.6	6931.3	7801.9
37.5°	2451.2	2619.3	2818.2	3027.2	4030.5	5175.7	6616.2	8101.6	9425.5	10767.6	11885.3
35°	2636.1	2865.5	3254.4	4649.7	6206.8	8123.6	9982.6	11875.1	13558.4	15127.6	16468.2
32.5°	2865.5	3407.1	4963.2	6959.4	9151.9	11534.7	13777.8	16013.9	18022.7	19892.6	21567.6
30°	3254.4	4963.2	7212.5	9726.0	12484.8	15197.8	17853.9	20482.5	22977.5	25239.2	27368.8
27.5°	4649.7	6959.4	9726.0	12804.8	15926.8	18993.6	22262.6	25370.8	28520.7	31283.7	34127.5
25°	6206.8	9151.9	12484.8	15926.8	19430.1	23170.0	27013.7	30789.7	34852.7	38536.3	42949.4
22.5°	8123.6	11534.7	15197.8	18993.6	23170.0	27569.1	32094.2	37067.9	42858.9	49193.5	55581.6
20°	9982.6	13777.8	17853.9	22262.6	27013.7	32094.2	37819.3	45339.2	53468.5	63153.4	72030.5
17.5°	11875.1	16013.9	20482.5	25370.8	30789.7	37067.9	45339.2	55319.6	67079.0	80189.7	92408.7
15°	13558.4	18022.7	22977.5	28520.7	34852.7	42858.9	53468.5	67079.0	82988.3	100017.4	117871.9
12.5°	15127.6	19892.6	25239.2	31283.7	38536.3	49193.5	63153.4	80189.7	100017.4	122208.4	138628.1
10°	16468.2	21567.6	27368.8	34127.5	42949.4	55581.6	72030.5	92408.7	117871.9	138628.1	155545.1
7.5°	17528.6	22896.1	29063.6	36402.5	46896.2	61686.6	80985.1	105366.0	131038.9	151836.8	168469.6
5°	18296.0	23859.6	30296.2	38062.6	49789.2	66187.4	87637.8	115260.7	140242.9	160894.9	177687.5
2.5°	18760.5	24443.8	31044.9	39073.6	51556.4	68948.6	91743.0	121416.5	146038.0	166453.2	183592.0
0°	18916.0	24639.5	31296.0	39413.1	52151.0	69879.6	93131.5	123508.1	148020.4	168296.1	185679.5
-2.5°	18760.5	24443.8	31044.9	39073.6	51556.4	68948.6	91743.0	121416.5	146038.0	166453.2	183592.0
-5°	18296.0	23859.6	30296.2	38062.6	49789.2	66187.4	87637.8	115260.7	140242.9	160894.9	177687.5
-7.5°	17528.6	22896.1	29063.6	36402.5	46896.2	61686.6	80985.1	105366.0	131038.9	151836.8	168469.6
-10°	16468.2	21567.6	27368.8	34127.5	42949.4	55581.6	72030.5	92408.7	117871.9	138628.1	155545.1
-12.5°	15127.6	19892.6	25239.2	31283.7	38536.3	49193.5	63153.4	80189.7	100017.4	122208.4	138628.1
-15°	13558.4	18022.7	22977.5	28520.7	34852.7	42858.9	53468.5	67079.0	82988.3	100017.4	117871.9
-17.5°	11875.1	16013.9	20482.5	25370.8	30789.7	37067.9	45339.2	55319.6	67079.0	80189.7	92408.7
-20°	9982.6	13777.8	17853.9	22262.6	27013.7	32094.2	37819.3	45339.2	53468.5	63153.4	72030.5



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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°	8123.6	11534.7	15197.8	18993.6	23170.0	27569.1	32094.2	37067.9	42858.9	49193.5	55581.6
-25°	6206.8	9151.9	12484.8	15926.8	19430.1	23170.0	27013.7	30789.7	34852.7	38536.3	42949.4
-27.5°	4649.7	6959.4	9726.0	12804.8	15926.8	18993.6	22262.6	25370.8	28520.7	31283.7	34127.5
-30°	3254.4	4963.2	7212.5	9726.0	12484.8	15197.8	17853.9	20482.5	22977.5	25239.2	27368.8
-32.5°	2865.5	3407.1	4963.2	6959.4	9151.9	11534.7	13777.8	16013.9	18022.7	19892.6	21567.6
-35°	2636.1	2865.5	3254.4	4649.7	6206.8	8123.6	9982.6	11875.1	13558.4	15127.6	16468.2
-37.5°	2451.2	2619.3	2818.2	3027.2	4030.5	5175.7	6616.2	8101.6	9425.5	10767.6	11885.3
-40°	2244.8	2418.4	2569.1	2724.6	2908.1	3120.4	4097.5	4979.0	5883.6	6931.3	7801.9
-42.5°	2038.0	2191.3	2349.2	2486.7	2611.3	2745.1	2889.9	3020.1	3475.2	4093.8	4606.9
-45°	1878.2	1988.7	2103.1	2242.0	2371.7	2480.7	2578.3	2666.0	2768.0	2859.0	2934.4
-47.5°	1746.4	1824.1	1915.7	2007.4	2102.4	2213.3	2314.4	2403.4	2474.5	2535.5	2585.9
-50°	1606.7	1693.4	1761.7	1825.8	1899.6	1972.4	2038.5	2109.3	2182.6	2245.2	2297.0
-52.5°	1440.2	1529.1	1610.6	1683.4	1738.4	1789.0	1834.9	1886.9	1934.7	1975.5	2009.1
-55°	1222.5	1327.0	1425.5	1501.7	1566.9	1626.8	1678.8	1716.4	1749.3	1777.4	1800.6
-57.5°	995.3	1095.5	1188.6	1273.1	1351.3	1423.0	1479.0	1523.2	1561.9	1594.9	1622.1
-60°	773.0	855.4	940.8	1021.2	1095.5	1163.4	1222.5	1275.1	1321.1	1360.3	1392.6
-62.5°	567.4	637.2	707.5	773.0	833.6	892.0	947.6	997.2	1040.5	1077.3	1107.7
-65°	390.9	447.0	499.7	548.7	594.3	644.0	689.0	729.0	763.8	793.6	818.0
-67.5°	260.0	295.0	327.8	358.3	394.4	431.2	464.5	494.0	519.8	541.7	559.8
-70°	166.9	185.1	202.1	222.0	246.8	269.5	289.9	308.0	323.8	337.3	348.3
-72.5°	100.8	112.2	123.9	137.6	150.3	161.8	172.2	181.4	189.5	196.3	202.0
-75°	51.5	57.2	66.3	74.7	82.5	89.6	96.0	101.6	106.6	110.8	114.2
-77.5°	29.4	32.7	35.8	38.7	41.4	43.8	46.0	47.9	49.6	51.0	52.2
-80°	21.0	21.8	22.6	23.3	23.9	24.5	25.1	25.5	25.9	26.3	26.6
-82.5°	14.1	14.7	15.3	15.8	16.3	16.7	17.2	17.5	17.8	18.1	18.3
-85°	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.7	9.9	10.0	10.0
-87.5°	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	4.9	5.0	5.0
-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: P701472 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-4S-HEG-S

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°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.0	5.0	4.9	4.9
85°	10.1	10.2	10.2	10.2	10.2	10.2	10.1	10.0	10.0	9.9	9.7
82.5°	18.5	18.6	18.7	18.7	18.7	18.6	18.5	18.3	18.1	17.8	17.5
80°	26.8	27.0	27.1	27.1	27.1	27.0	26.8	26.6	26.3	25.9	25.5
77.5°	53.1	53.8	54.2	54.3	54.2	53.8	53.1	52.2	51.0	49.6	47.9
75°	116.9	118.9	120.0	120.4	120.0	118.9	116.9	114.2	110.8	106.6	101.6
72.5°	206.3	209.5	211.4	212.0	211.4	209.5	206.3	202.0	196.3	189.5	181.4
70°	357.0	363.1	366.9	368.1	366.9	363.1	357.0	348.3	337.3	323.8	308.0
67.5°	573.8	583.9	590.0	592.0	590.0	583.9	573.8	559.8	541.7	519.8	494.0
65°	837.1	850.7	859.0	861.7	859.0	850.7	837.1	818.0	793.6	763.8	729.0
62.5°	1131.4	1148.4	1158.6	1162.0	1158.6	1148.4	1131.4	1107.7	1077.3	1040.5	997.2
60°	1417.8	1435.9	1446.8	1450.4	1446.8	1435.9	1417.8	1392.6	1360.3	1321.1	1275.1
57.5°	1643.4	1658.7	1667.8	1670.9	1667.8	1658.7	1643.4	1622.1	1594.9	1561.9	1523.2
55°	1818.7	1831.7	1839.6	1842.2	1839.6	1831.7	1818.7	1800.6	1777.4	1749.3	1716.4
52.5°	2035.5	2054.4	2065.8	2069.6	2065.8	2054.4	2035.5	2009.1	1975.5	1934.7	1886.9
50°	2337.6	2366.8	2384.3	2390.2	2384.3	2366.8	2337.6	2297.0	2245.2	2182.6	2109.3
47.5°	2625.5	2653.9	2671.1	2676.8	2671.1	2653.9	2625.5	2585.9	2535.5	2474.5	2403.4
45°	2993.6	3036.1	3061.8	3070.4	3061.8	3036.1	2993.6	2934.4	2859.0	2768.0	2666.0
42.5°	5010.5	5301.1	5476.6	5535.2	5476.6	5301.1	5010.5	4606.9	4093.8	3475.2	3020.1
40°	8487.6	8982.2	9280.9	9380.8	9280.9	8982.2	8487.6	7801.9	6931.3	5883.6	4979.0
37.5°	12767.4	13404.5	13789.7	13918.6	13789.7	13404.5	12767.4	11885.3	10767.6	9425.5	8101.6
35°	17528.6	18296.0	18760.5	18916.0	18760.5	18296.0	17528.6	16468.2	15127.6	13558.4	11875.1
32.5°	22896.1	23859.6	24443.8	24639.5	24443.8	23859.6	22896.1	21567.6	19892.6	18022.7	16013.9
30°	29063.6	30296.2	31044.9	31296.0	31044.9	30296.2	29063.6	27368.8	25239.2	22977.5	20482.5
27.5°	36402.5	38062.6	39073.6	39413.1	39073.6	38062.6	36402.5	34127.5	31283.7	28520.7	25370.8
25°	46896.2	49789.2	51556.4	52151.0	51556.4	49789.2	46896.2	42949.4	38536.3	34852.7	30789.7
22.5°	61686.6	66187.4	68948.6	69879.6	68948.6	66187.4	61686.6	55581.6	49193.5	42858.9	37067.9
20°	80985.1	87637.8	91743.0	93131.5	91743.0	87637.8	80985.1	72030.5	63153.4	53468.5	45339.2
17.5°	105366.0	115260.7	121416.5	123508.1	121416.5	115260.7	105366.0	92408.7	80189.7	67079.0	55319.6
15°	131038.9	140242.9	146038.0	148020.4	146038.0	140242.9	131038.9	117871.9	100017.4	82988.3	67079.0
12.5°	151836.8	160894.9	166453.2	168296.1	166453.2	160894.9	151836.8	138628.1	122208.4	100017.4	80189.7
10°	168469.6	177687.5	183592.0	185679.5	183592.0	177687.5	168469.6	155545.1	138628.1	117871.9	92408.7
7.5°	181627.4	192031.6	198333.3	200576.0	198333.3	192031.6	181627.4	168469.6	151836.8	131038.9	105366.0
5°	192031.6	202985.4	210444.2	213068.8	210444.2	202985.4	192031.6	177687.5	160894.9	140242.9	115260.7
2.5°	198333.3	210444.2	217649.3	219719.4	217649.3	210444.2	198333.3	183592.0	166453.2	146038.0	121416.5
0°	200576.0	213068.8	219719.4	220661.7	219719.4	213068.8	200576.0	185679.5	168296.1	148020.4	123508.1
-2.5°	198333.3	210444.2	217649.3	219719.4	217649.3	210444.2	198333.3	183592.0	166453.2	146038.0	121416.5
-5°	192031.6	202985.4	210444.2	213068.8	210444.2	202985.4	192031.6	177687.5	160894.9	140242.9	115260.7
-7.5°	181627.4	192031.6	198333.3	200576.0	198333.3	192031.6	181627.4	168469.6	151836.8	131038.9	105366.0
-10°	168469.6	177687.5	183592.0	185679.5	183592.0	177687.5	168469.6	155545.1	138628.1	117871.9	92408.7
-12.5°	151836.8	160894.9	166453.2	168296.1	166453.2	160894.9	151836.8	138628.1	122208.4	100017.4	80189.7
-15°	131038.9	140242.9	146038.0	148020.4	146038.0	140242.9	131038.9	117871.9	100017.4	82988.3	67079.0
-17.5°	105366.0	115260.7	121416.5	123508.1	121416.5	115260.7	105366.0	92408.7	80189.7	67079.0	55319.6
-20°	80985.1	87637.8	91743.0	93131.5	91743.0	87637.8	80985.1	72030.5	63153.4	53468.5	45339.2



REPORT NUMBER: P701472 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-4S-HEG-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	61686.6	66187.4	68948.6	69879.6	68948.6	66187.4	61686.6	55581.6	49193.5	42858.9	37067.9
-25°	46896.2	49789.2	51556.4	52151.0	51556.4	49789.2	46896.2	42949.4	38536.3	34852.7	30789.7
-27.5°	36402.5	38062.6	39073.6	39413.1	39073.6	38062.6	36402.5	34127.5	31283.7	28520.7	25370.8
-30°	29063.6	30296.2	31044.9	31296.0	31044.9	30296.2	29063.6	27368.8	25239.2	22977.5	20482.5
-32.5°	22896.1	23859.6	24443.8	24639.5	24443.8	23859.6	22896.1	21567.6	19892.6	18022.7	16013.9
-35°	17528.6	18296.0	18760.5	18916.0	18760.5	18296.0	17528.6	16468.2	15127.6	13558.4	11875.1
-37.5°	12767.4	13404.5	13789.7	13918.6	13789.7	13404.5	12767.4	11885.3	10767.6	9425.5	8101.6
-40°	8487.6	8982.2	9280.9	9380.8	9280.9	8982.2	8487.6	7801.9	6931.3	5883.6	4979.0
-42.5°	5010.5	5301.1	5476.6	5535.2	5476.6	5301.1	5010.5	4606.9	4093.8	3475.2	3020.1
-45°	2993.6	3036.1	3061.8	3070.4	3061.8	3036.1	2993.6	2934.4	2859.0	2768.0	2666.0
-47.5°	2625.5	2653.9	2671.1	2676.8	2671.1	2653.9	2625.5	2585.9	2535.5	2474.5	2403.4
-50°	2337.6	2366.8	2384.3	2390.2	2384.3	2366.8	2337.6	2297.0	2245.2	2182.6	2109.3
-52.5°	2035.5	2054.4	2065.8	2069.6	2065.8	2054.4	2035.5	2009.1	1975.5	1934.7	1886.9
-55°	1818.7	1831.7	1839.6	1842.2	1839.6	1831.7	1818.7	1800.6	1777.4	1749.3	1716.4
-57.5°	1643.4	1658.7	1667.8	1670.9	1667.8	1658.7	1643.4	1622.1	1594.9	1561.9	1523.2
-60°	1417.8	1435.9	1446.8	1450.4	1446.8	1435.9	1417.8	1392.6	1360.3	1321.1	1275.1
-62.5°	1131.4	1148.4	1158.6	1162.0	1158.6	1148.4	1131.4	1107.7	1077.3	1040.5	997.2
-65°	837.1	850.7	859.0	861.7	859.0	850.7	837.1	818.0	793.6	763.8	729.0
-67.5°	573.8	583.9	590.0	592.0	590.0	583.9	573.8	559.8	541.7	519.8	494.0
-70°	357.0	363.1	366.9	368.1	366.9	363.1	357.0	348.3	337.3	323.8	308.0
-72.5°	206.3	209.5	211.4	212.0	211.4	209.5	206.3	202.0	196.3	189.5	181.4
-75°	116.9	118.9	120.0	120.4	120.0	118.9	116.9	114.2	110.8	106.6	101.6
-77.5°	53.1	53.8	54.2	54.3	54.2	53.8	53.1	52.2	51.0	49.6	47.9
-80°	26.8	27.0	27.1	27.1	27.1	27.0	26.8	26.6	26.3	25.9	25.5
-82.5°	18.5	18.6	18.7	18.7	18.7	18.6	18.5	18.3	18.1	17.8	17.5
-85°	10.1	10.2	10.2	10.2	10.2	10.2	10.1	10.0	10.0	9.9	9.7
-87.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.0	5.0	4.9	4.9
-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):

	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°	4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.0	3.9	3.8	3.6
85°	9.6	9.4	9.2	9.0	8.8	8.6	8.4	8.1	7.8	7.5	7.2
82.5°	17.2	16.7	16.3	15.8	15.3	14.7	14.1	13.4	12.7	12.0	11.2
80°	25.1	24.5	23.9	23.3	22.6	21.8	21.0	20.1	19.2	18.2	17.2
77.5°	46.0	43.8	41.4	38.7	35.8	32.7	29.4	26.7	25.6	24.4	23.1
75°	96.0	89.6	82.5	74.7	66.3	57.2	51.5	47.2	42.7	38.0	33.0
72.5°	172.2	161.8	150.3	137.6	123.9	112.2	100.8	88.7	75.9	62.5	51.9
70°	289.9	269.5	246.8	222.0	202.1	185.1	166.9	147.7	127.3	110.0	93.8
67.5°	464.5	431.2	394.4	358.3	327.8	295.0	260.0	222.9	195.4	171.3	146.0
65°	689.0	644.0	594.3	548.7	499.7	447.0	390.9	342.5	298.8	252.9	207.9
62.5°	947.6	892.0	833.6	773.0	707.5	637.2	567.4	501.5	432.1	362.1	309.2
60°	1222.5	1163.4	1095.5	1021.2	940.8	855.4	773.0	685.9	594.3	514.2	431.2
57.5°	1479.0	1423.0	1351.3	1273.1	1188.6	1095.5	995.3	889.4	786.7	682.3	576.7
55°	1678.8	1626.8	1566.9	1501.7	1425.5	1327.0	1222.5	1110.1	989.6	863.7	746.0
52.5°	1834.9	1789.0	1738.4	1683.4	1610.6	1529.1	1440.2	1321.1	1196.2	1062.1	921.4
50°	2038.5	1972.4	1899.6	1825.8	1761.7	1693.4	1606.7	1508.7	1392.6	1253.0	1106.0
47.5°	2314.4	2213.3	2102.4	2007.4	1915.7	1824.1	1746.4	1663.0	1553.3	1435.9	1281.5
45°	2578.3	2480.7	2371.7	2242.0	2103.1	1988.7	1878.2	1782.2	1691.3	1575.8	1450.4
42.5°	2889.9	2745.1	2611.3	2486.7	2349.2	2191.3	2038.0	1914.7	1800.2	1700.2	1575.8
40°	4097.5	3120.4	2908.1	2724.6	2569.1	2418.4	2244.8	2062.9	1927.0	1800.2	1691.3
37.5°	6616.2	5175.7	4030.5	3027.2	2818.2	2619.3	2451.2	2262.8	2062.9	1914.7	1782.2
35°	9982.6	8123.6	6206.8	4649.7	3254.4	2865.5	2636.1	2451.2	2244.8	2038.0	1878.2
32.5°	13777.8	11534.7	9151.9	6959.4	4963.2	3407.1	2865.5	2619.3	2418.4	2191.3	1988.7
30°	17853.9	15197.8	12484.8	9726.0	7212.5	4963.2	3254.4	2818.2	2569.1	2349.2	2103.1
27.5°	22262.6	18993.6	15926.8	12804.8	9726.0	6959.4	4649.7	3027.2	2724.6	2486.7	2242.0
25°	27013.7	23170.0	19430.1	15926.8	12484.8	9151.9	6206.8	4030.5	2908.1	2611.3	2371.7
22.5°	32094.2	27569.1	23170.0	18993.6	15197.8	11534.7	8123.6	5175.7	3120.4	2745.1	2480.7
20°	37819.3	32094.2	27013.7	22262.6	17853.9	13777.8	9982.6	6616.2	4097.5	2889.9	2578.3
17.5°	45339.2	37067.9	30789.7	25370.8	20482.5	16013.9	11875.1	8101.6	4979.0	3020.1	2666.0
15°	53468.5	42858.9	34852.7	28520.7	22977.5	18022.7	13558.4	9425.5	5883.6	3475.2	2768.0
12.5°	63153.4	49193.5	38536.3	31283.7	25239.2	19892.6	15127.6	10767.6	6931.3	4093.8	2859.0
10°	72030.5	55581.6	42949.4	34127.5	27368.8	21567.6	16468.2	11885.3	7801.9	4606.9	2934.4
7.5°	80985.1	61686.6	46896.2	36402.5	29063.6	22896.1	17528.6	12767.4	8487.6	5010.5	2993.6
5°	87637.8	66187.4	49789.2	38062.6	30296.2	23859.6	18296.0	13404.5	8982.2	5301.1	3036.1
2.5°	91743.0	68948.6	51556.4	39073.6	31044.9	24443.8	18760.5	13789.7	9280.9	5476.6	3061.8
0°	93131.5	69879.6	52151.0	39413.1	31296.0	24639.5	18916.0	13918.6	9380.8	5535.2	3070.4
-2.5°	91743.0	68948.6	51556.4	39073.6	31044.9	24443.8	18760.5	13789.7	9280.9	5476.6	3061.8
-5°	87637.8	66187.4	49789.2	38062.6	30296.2	23859.6	18296.0	13404.5	8982.2	5301.1	3036.1
-7.5°	80985.1	61686.6	46896.2	36402.5	29063.6	22896.1	17528.6	12767.4	8487.6	5010.5	2993.6
-10°	72030.5	55581.6	42949.4	34127.5	27368.8	21567.6	16468.2	11885.3	7801.9	4606.9	2934.4
-12.5°	63153.4	49193.5	38536.3	31283.7	25239.2	19892.6	15127.6	10767.6	6931.3	4093.8	2859.0
-15°	53468.5	42858.9	34852.7	28520.7	22977.5	18022.7	13558.4	9425.5	5883.6	3475.2	2768.0
-17.5°	45339.2	37067.9	30789.7	25370.8	20482.5	16013.9	11875.1	8101.6	4979.0	3020.1	2666.0
-20°	37819.3	32094.2	27013.7	22262.6	17853.9	13777.8	9982.6	6616.2	4097.5	2889.9	2578.3



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 CATALOG NUMBER: EPH-LS-08-0680R-40-80-4S-HEG-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	32094.2	27569.1	23170.0	18993.6	15197.8	11534.7	8123.6	5175.7	3120.4	2745.1	2480.7
-25°	27013.7	23170.0	19430.1	15926.8	12484.8	9151.9	6206.8	4030.5	2908.1	2611.3	2371.7
-27.5°	22262.6	18993.6	15926.8	12804.8	9726.0	6959.4	4649.7	3027.2	2724.6	2486.7	2242.0
-30°	17853.9	15197.8	12484.8	9726.0	7212.5	4963.2	3254.4	2818.2	2569.1	2349.2	2103.1
-32.5°	13777.8	11534.7	9151.9	6959.4	4963.2	3407.1	2865.5	2619.3	2418.4	2191.3	1988.7
-35°	9982.6	8123.6	6206.8	4649.7	3254.4	2865.5	2636.1	2451.2	2244.8	2038.0	1878.2
-37.5°	6616.2	5175.7	4030.5	3027.2	2818.2	2619.3	2451.2	2262.8	2062.9	1914.7	1782.2
-40°	4097.5	3120.4	2908.1	2724.6	2569.1	2418.4	2244.8	2062.9	1927.0	1800.2	1691.3
-42.5°	2889.9	2745.1	2611.3	2486.7	2349.2	2191.3	2038.0	1914.7	1800.2	1700.2	1575.8
-45°	2578.3	2480.7	2371.7	2242.0	2103.1	1988.7	1878.2	1782.2	1691.3	1575.8	1450.4
-47.5°	2314.4	2213.3	2102.4	2007.4	1915.7	1824.1	1746.4	1663.0	1553.3	1435.9	1281.5
-50°	2038.5	1972.4	1899.6	1825.8	1761.7	1693.4	1606.7	1508.7	1392.6	1253.0	1106.0
-52.5°	1834.9	1789.0	1738.4	1683.4	1610.6	1529.1	1440.2	1321.1	1196.2	1062.1	921.4
-55°	1678.8	1626.8	1566.9	1501.7	1425.5	1327.0	1222.5	1110.1	989.6	863.7	746.0
-57.5°	1479.0	1423.0	1351.3	1273.1	1188.6	1095.5	995.3	889.4	786.7	682.3	576.7
-60°	1222.5	1163.4	1095.5	1021.2	940.8	855.4	773.0	685.9	594.3	514.2	431.2
-62.5°	947.6	892.0	833.6	773.0	707.5	637.2	567.4	501.5	432.1	362.1	309.2
-65°	689.0	644.0	594.3	548.7	499.7	447.0	390.9	342.5	298.8	252.9	207.9
-67.5°	464.5	431.2	394.4	358.3	327.8	295.0	260.0	222.9	195.4	171.3	146.0
-70°	289.9	269.5	246.8	222.0	202.1	185.1	166.9	147.7	127.3	110.0	93.8
-72.5°	172.2	161.8	150.3	137.6	123.9	112.2	100.8	88.7	75.9	62.5	51.9
-75°	96.0	89.6	82.5	74.7	66.3	57.2	51.5	47.2	42.7	38.0	33.0
-77.5°	46.0	43.8	41.4	38.7	35.8	32.7	29.4	26.7	25.6	24.4	23.1
-80°	25.1	24.5	23.9	23.3	22.6	21.8	21.0	20.1	19.2	18.2	17.2
-82.5°	17.2	16.7	16.3	15.8	15.3	14.7	14.1	13.4	12.7	12.0	11.2
-85°	9.6	9.4	9.2	9.0	8.8	8.6	8.4	8.1	7.8	7.5	7.2
-87.5°	4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.0	3.9	3.8	3.6
-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: P701472 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-4S-HEG-S

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°	3.4	3.3	3.1	2.9	2.7	2.5	2.4	2.2	2.0	1.7	1.5
85°	6.9	6.6	6.2	5.8	5.5	5.1	4.7	4.3	3.9	3.5	3.1
82.5°	10.4	9.8	9.3	8.8	8.2	7.6	7.0	6.5	5.8	5.2	4.6
80°	16.1	15.0	13.8	12.6	11.4	10.2	9.4	8.6	7.8	6.9	6.1
77.5°	21.8	20.4	18.9	17.4	15.9	14.3	12.7	11.0	9.7	8.7	7.6
75°	27.9	25.7	24.0	22.2	20.4	18.5	16.5	14.6	12.5	10.5	9.1
72.5°	45.8	39.6	33.1	26.9	24.7	22.6	20.3	18.0	15.7	13.3	10.8
70°	77.0	59.6	49.0	41.4	33.5	26.6	24.0	21.4	18.8	16.0	13.3
67.5°	120.0	100.3	80.0	59.0	47.4	38.3	29.0	24.8	21.8	18.8	15.7
65°	178.6	148.3	118.0	94.7	70.8	51.0	40.7	30.2	24.8	21.4	18.0
62.5°	254.3	203.4	169.0	133.5	103.6	76.7	52.2	40.7	29.0	24.0	20.3
60°	352.0	289.9	225.8	181.4	141.8	106.6	76.7	51.0	38.3	26.6	22.6
57.5°	483.1	386.4	311.4	240.1	185.6	141.8	103.6	70.8	47.4	33.5	24.7
55°	624.3	514.5	407.2	318.6	240.1	181.4	133.5	94.7	59.0	41.4	26.9
52.5°	784.5	649.8	525.0	407.2	311.4	225.8	169.0	118.0	80.0	49.0	33.1
50°	950.4	797.5	649.8	514.5	386.4	289.9	203.4	148.3	100.3	59.6	39.6
47.5°	1120.7	950.4	784.5	624.3	483.1	352.0	254.3	178.6	120.0	77.0	45.8
45°	1281.5	1106.0	921.4	746.0	576.7	431.2	309.2	207.9	146.0	93.8	51.9
42.5°	1435.9	1253.0	1062.1	863.7	682.3	514.2	362.1	252.9	171.3	110.0	62.5
40°	1553.3	1392.6	1196.2	989.6	786.7	594.3	432.1	298.8	195.4	127.3	75.9
37.5°	1663.0	1508.7	1321.1	1110.1	889.4	685.9	501.5	342.5	222.9	147.7	88.7
35°	1746.4	1606.7	1440.2	1222.5	995.3	773.0	567.4	390.9	260.0	166.9	100.8
32.5°	1824.1	1693.4	1529.1	1327.0	1095.5	855.4	637.2	447.0	295.0	185.1	112.2
30°	1915.7	1761.7	1610.6	1425.5	1188.6	940.8	707.5	499.7	327.8	202.1	123.9
27.5°	2007.4	1825.8	1683.4	1501.7	1273.1	1021.2	773.0	548.7	358.3	222.0	137.6
25°	2102.4	1899.6	1738.4	1566.9	1351.3	1095.5	833.6	594.3	394.4	246.8	150.3
22.5°	2213.3	1972.4	1789.0	1626.8	1423.0	1163.4	892.0	644.0	431.2	269.5	161.8
20°	2314.4	2038.5	1834.9	1678.8	1479.0	1222.5	947.6	689.0	464.5	289.9	172.2
17.5°	2403.4	2109.3	1886.9	1716.4	1523.2	1275.1	997.2	729.0	494.0	308.0	181.4
15°	2474.5	2182.6	1934.7	1749.3	1561.9	1321.1	1040.5	763.8	519.8	323.8	189.5
12.5°	2535.5	2245.2	1975.5	1777.4	1594.9	1360.3	1077.3	793.6	541.7	337.3	196.3
10°	2585.9	2297.0	2009.1	1800.6	1622.1	1392.6	1107.7	818.0	559.8	348.3	202.0
7.5°	2625.5	2337.6	2035.5	1818.7	1643.4	1417.8	1131.4	837.1	573.8	357.0	206.3
5°	2653.9	2366.8	2054.4	1831.7	1658.7	1435.9	1148.4	850.7	583.9	363.1	209.5
2.5°	2671.1	2384.3	2065.8	1839.6	1667.8	1446.8	1158.6	859.0	590.0	366.9	211.4
0°	2676.8	2390.2	2069.6	1842.2	1670.9	1450.4	1162.0	861.7	592.0	368.1	212.0
-2.5°	2671.1	2384.3	2065.8	1839.6	1667.8	1446.8	1158.6	859.0	590.0	366.9	211.4
-5°	2653.9	2366.8	2054.4	1831.7	1658.7	1435.9	1148.4	850.7	583.9	363.1	209.5
-7.5°	2625.5	2337.6	2035.5	1818.7	1643.4	1417.8	1131.4	837.1	573.8	357.0	206.3
-10°	2585.9	2297.0	2009.1	1800.6	1622.1	1392.6	1107.7	818.0	559.8	348.3	202.0
-12.5°	2535.5	2245.2	1975.5	1777.4	1594.9	1360.3	1077.3	793.6	541.7	337.3	196.3
-15°	2474.5	2182.6	1934.7	1749.3	1561.9	1321.1	1040.5	763.8	519.8	323.8	189.5
-17.5°	2403.4	2109.3	1886.9	1716.4	1523.2	1275.1	997.2	729.0	494.0	308.0	181.4
-20°	2314.4	2038.5	1834.9	1678.8	1479.0	1222.5	947.6	689.0	464.5	289.9	172.2



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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°	2213.3	1972.4	1789.0	1626.8	1423.0	1163.4	892.0	644.0	431.2	269.5	161.8
-25°	2102.4	1899.6	1738.4	1566.9	1351.3	1095.5	833.6	594.3	394.4	246.8	150.3
-27.5°	2007.4	1825.8	1683.4	1501.7	1273.1	1021.2	773.0	548.7	358.3	222.0	137.6
-30°	1915.7	1761.7	1610.6	1425.5	1188.6	940.8	707.5	499.7	327.8	202.1	123.9
-32.5°	1824.1	1693.4	1529.1	1327.0	1095.5	855.4	637.2	447.0	295.0	185.1	112.2
-35°	1746.4	1606.7	1440.2	1222.5	995.3	773.0	567.4	390.9	260.0	166.9	100.8
-37.5°	1663.0	1508.7	1321.1	1110.1	889.4	685.9	501.5	342.5	222.9	147.7	88.7
-40°	1553.3	1392.6	1196.2	989.6	786.7	594.3	432.1	298.8	195.4	127.3	75.9
-42.5°	1435.9	1253.0	1062.1	863.7	682.3	514.2	362.1	252.9	171.3	110.0	62.5
-45°	1281.5	1106.0	921.4	746.0	576.7	431.2	309.2	207.9	146.0	93.8	51.9
-47.5°	1120.7	950.4	784.5	624.3	483.1	352.0	254.3	178.6	120.0	77.0	45.8
-50°	950.4	797.5	649.8	514.5	386.4	289.9	203.4	148.3	100.3	59.6	39.6
-52.5°	784.5	649.8	525.0	407.2	311.4	225.8	169.0	118.0	80.0	49.0	33.1
-55°	624.3	514.5	407.2	318.6	240.1	181.4	133.5	94.7	59.0	41.4	26.9
-57.5°	483.1	386.4	311.4	240.1	185.6	141.8	103.6	70.8	47.4	33.5	24.7
-60°	352.0	289.9	225.8	181.4	141.8	106.6	76.7	51.0	38.3	26.6	22.6
-62.5°	254.3	203.4	169.0	133.5	103.6	76.7	52.2	40.7	29.0	24.0	20.3
-65°	178.6	148.3	118.0	94.7	70.8	51.0	40.7	30.2	24.8	21.4	18.0
-67.5°	120.0	100.3	80.0	59.0	47.4	38.3	29.0	24.8	21.8	18.8	15.7
-70°	77.0	59.6	49.0	41.4	33.5	26.6	24.0	21.4	18.8	16.0	13.3
-72.5°	45.8	39.6	33.1	26.9	24.7	22.6	20.3	18.0	15.7	13.3	10.8
-75°	27.9	25.7	24.0	22.2	20.4	18.5	16.5	14.6	12.5	10.5	9.1
-77.5°	21.8	20.4	18.9	17.4	15.9	14.3	12.7	11.0	9.7	8.7	7.6
-80°	16.1	15.0	13.8	12.6	11.4	10.2	9.4	8.6	7.8	6.9	6.1
-82.5°	10.4	9.8	9.3	8.8	8.2	7.6	7.0	6.5	5.8	5.2	4.6
-85°	6.9	6.6	6.2	5.8	5.5	5.1	4.7	4.3	3.9	3.5	3.1
-87.5°	3.4	3.3	3.1	2.9	2.7	2.5	2.4	2.2	2.0	1.7	1.5
-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°	1.3	1.1	0.9	0.7	0.4	0.2	0.0
85°	2.6	2.2	1.8	1.3	0.9	0.4	0.0
82.5°	3.9	3.3	2.6	2.0	1.3	0.7	0.0
80°	5.3	4.4	3.5	2.6	1.8	0.9	0.0
77.5°	6.6	5.5	4.4	3.3	2.2	1.1	0.0
75°	7.8	6.6	5.3	3.9	2.6	1.3	0.0
72.5°	9.1	7.6	6.1	4.6	3.1	1.5	0.0
70°	10.5	8.7	6.9	5.2	3.5	1.7	0.0
67.5°	12.5	9.7	7.8	5.8	3.9	2.0	0.0
65°	14.6	11.0	8.6	6.5	4.3	2.2	0.0
62.5°	16.5	12.7	9.4	7.0	4.7	2.4	0.0
60°	18.5	14.3	10.2	7.6	5.1	2.5	0.0
57.5°	20.4	15.9	11.4	8.2	5.5	2.7	0.0
55°	22.2	17.4	12.6	8.8	5.8	2.9	0.0
52.5°	24.0	18.9	13.8	9.3	6.2	3.1	0.0
50°	25.7	20.4	15.0	9.8	6.6	3.3	0.0
47.5°	27.9	21.8	16.1	10.4	6.9	3.4	0.0
45°	33.0	23.1	17.2	11.2	7.2	3.6	0.0
42.5°	38.0	24.4	18.2	12.0	7.5	3.8	0.0
40°	42.7	25.6	19.2	12.7	7.8	3.9	0.0
37.5°	47.2	26.7	20.1	13.4	8.1	4.0	0.0
35°	51.5	29.4	21.0	14.1	8.4	4.2	0.0
32.5°	57.2	32.7	21.8	14.7	8.6	4.3	0.0
30°	66.3	35.8	22.6	15.3	8.8	4.4	0.0
27.5°	74.7	38.7	23.3	15.8	9.0	4.5	0.0
25°	82.5	41.4	23.9	16.3	9.2	4.6	0.0
22.5°	89.6	43.8	24.5	16.7	9.4	4.7	0.0
20°	96.0	46.0	25.1	17.2	9.6	4.8	0.0
17.5°	101.6	47.9	25.5	17.5	9.7	4.9	0.0
15°	106.6	49.6	25.9	17.8	9.9	4.9	0.0
12.5°	110.8	51.0	26.3	18.1	10.0	5.0	0.0
10°	114.2	52.2	26.6	18.3	10.0	5.0	0.0
7.5°	116.9	53.1	26.8	18.5	10.1	5.1	0.0
5°	118.9	53.8	27.0	18.6	10.2	5.1	0.0
2.5°	120.0	54.2	27.1	18.7	10.2	5.1	0.0
0°	120.4	54.3	27.1	18.7	10.2	5.1	0.0
-2.5°	120.0	54.2	27.1	18.7	10.2	5.1	0.0
-5°	118.9	53.8	27.0	18.6	10.2	5.1	0.0
-7.5°	116.9	53.1	26.8	18.5	10.1	5.1	0.0
-10°	114.2	52.2	26.6	18.3	10.0	5.0	0.0
-12.5°	110.8	51.0	26.3	18.1	10.0	5.0	0.0
-15°	106.6	49.6	25.9	17.8	9.9	4.9	0.0
-17.5°	101.6	47.9	25.5	17.5	9.7	4.9	0.0
-20°	96.0	46.0	25.1	17.2	9.6	4.8	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	89.6	43.8	24.5	16.7	9.4	4.7	0.0
-25°	82.5	41.4	23.9	16.3	9.2	4.6	0.0
-27.5°	74.7	38.7	23.3	15.8	9.0	4.5	0.0
-30°	66.3	35.8	22.6	15.3	8.8	4.4	0.0
-32.5°	57.2	32.7	21.8	14.7	8.6	4.3	0.0
-35°	51.5	29.4	21.0	14.1	8.4	4.2	0.0
-37.5°	47.2	26.7	20.1	13.4	8.1	4.0	0.0
-40°	42.7	25.6	19.2	12.7	7.8	3.9	0.0
-42.5°	38.0	24.4	18.2	12.0	7.5	3.8	0.0
-45°	33.0	23.1	17.2	11.2	7.2	3.6	0.0
-47.5°	27.9	21.8	16.1	10.4	6.9	3.4	0.0
-50°	25.7	20.4	15.0	9.8	6.6	3.3	0.0
-52.5°	24.0	18.9	13.8	9.3	6.2	3.1	0.0
-55°	22.2	17.4	12.6	8.8	5.8	2.9	0.0
-57.5°	20.4	15.9	11.4	8.2	5.5	2.7	0.0
-60°	18.5	14.3	10.2	7.6	5.1	2.5	0.0
-62.5°	16.5	12.7	9.4	7.0	4.7	2.4	0.0
-65°	14.6	11.0	8.6	6.5	4.3	2.2	0.0
-67.5°	12.5	9.7	7.8	5.8	3.9	2.0	0.0
-70°	10.5	8.7	6.9	5.2	3.5	1.7	0.0
-72.5°	9.1	7.6	6.1	4.6	3.1	1.5	0.0
-75°	7.8	6.6	5.3	3.9	2.6	1.3	0.0
-77.5°	6.6	5.5	4.4	3.3	2.2	1.1	0.0
-80°	5.3	4.4	3.5	2.6	1.8	0.9	0.0
-82.5°	3.9	3.3	2.6	2.0	1.3	0.7	0.0
-85°	2.6	2.2	1.8	1.3	0.9	0.4	0.0
-87.5°	1.3	1.1	0.9	0.7	0.4	0.2	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

