

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: P701362 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-40-80-7F-VHE-S**

Issue Date: 8/29/2023

**Test Information**

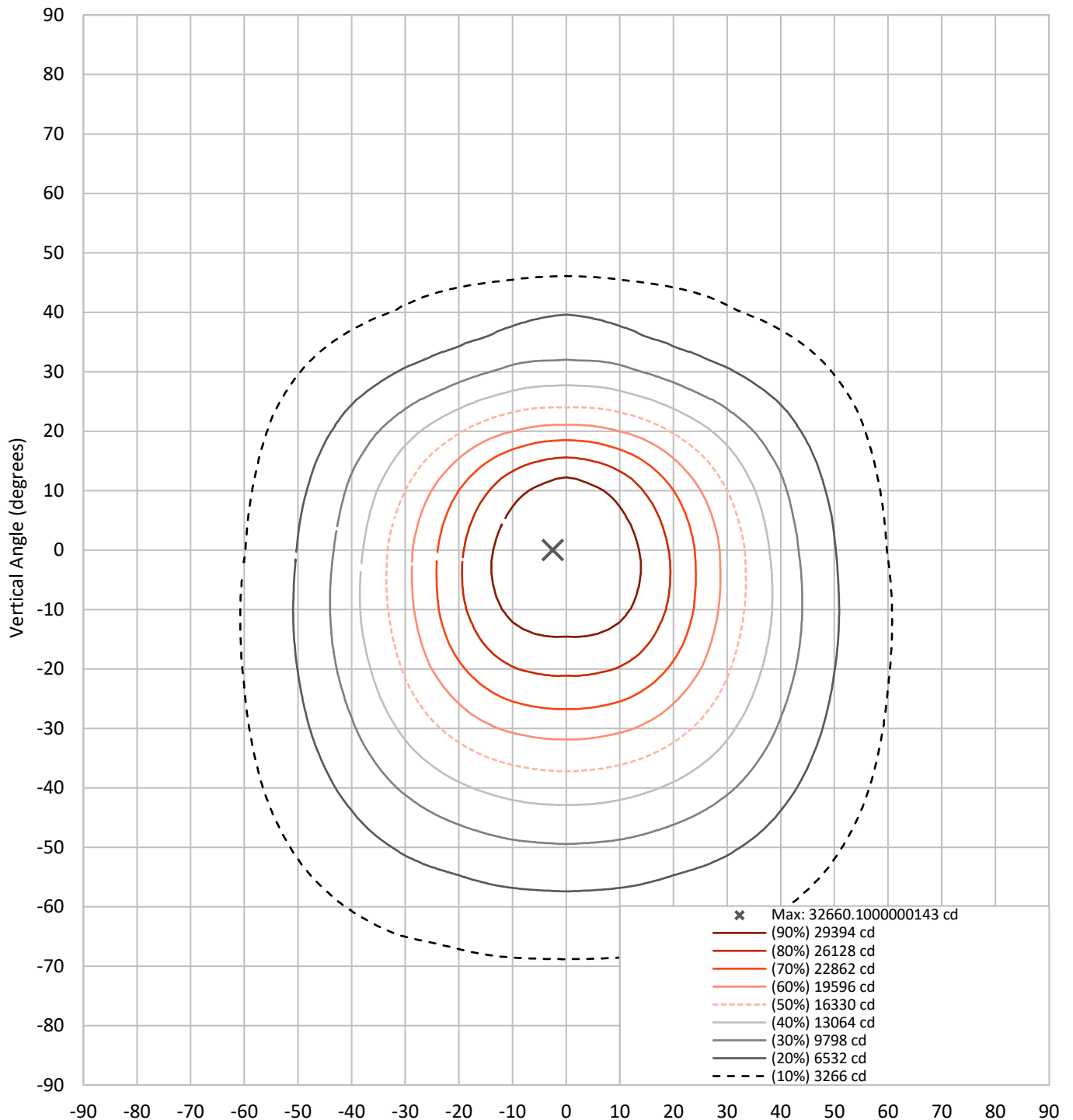
Test Method: LM-79-08  
Report Number: P701362 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320L-40-80-7F-VHE-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 7F BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	43449.9 lumens	Max Intensity:	32660.1 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	126.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	66.6°H x 61.2°V	Field Angle (10%):	119.6°H x 114.9°V
Beam Lumens:	23591.2 lumens	Field Lumens:	40716.5 lumens
Beam Efficiency:	54.3%	Field Efficiency:	93.7%
Input Watts (W):	344.2		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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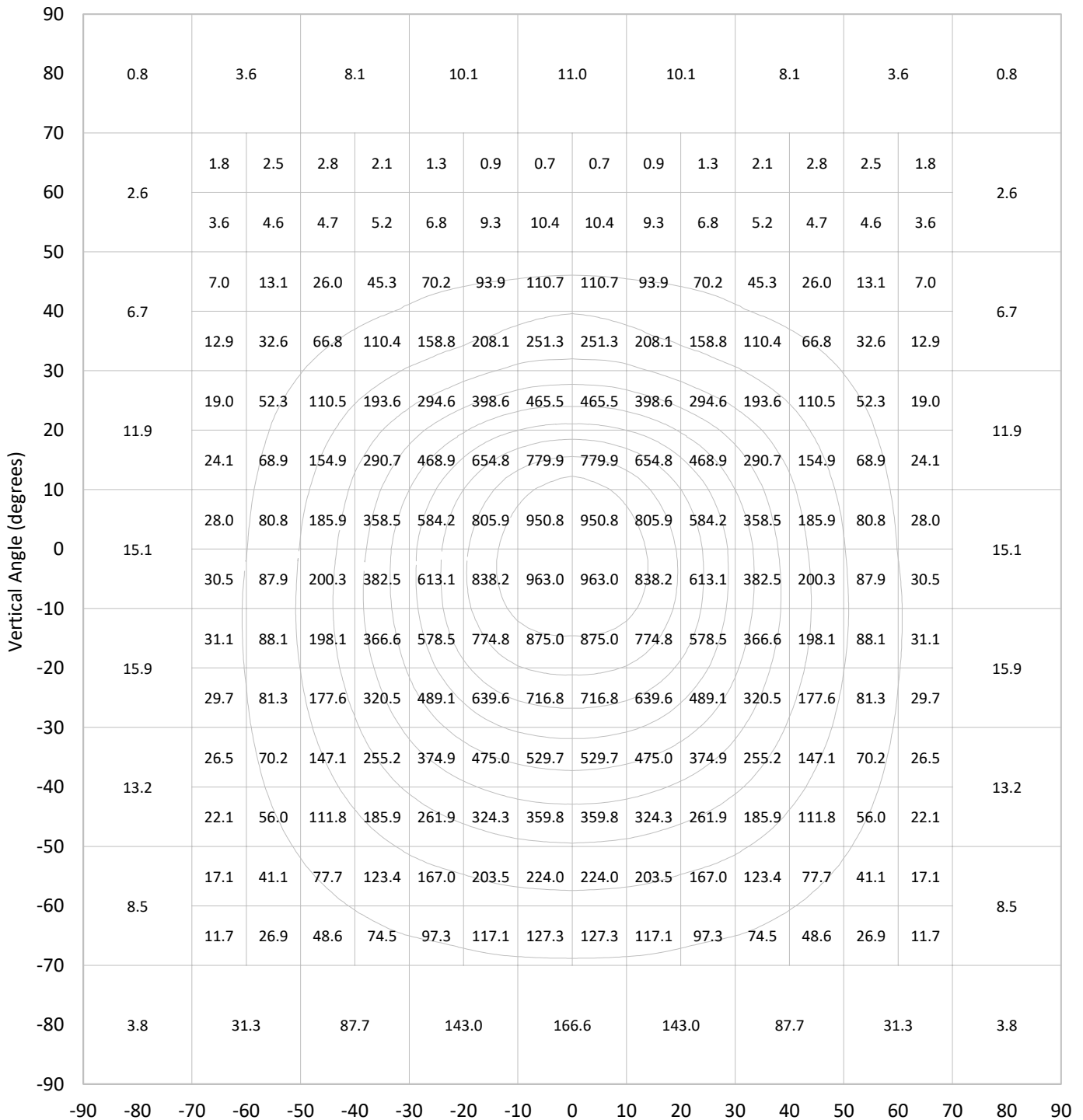
### Iso-Candela Plot





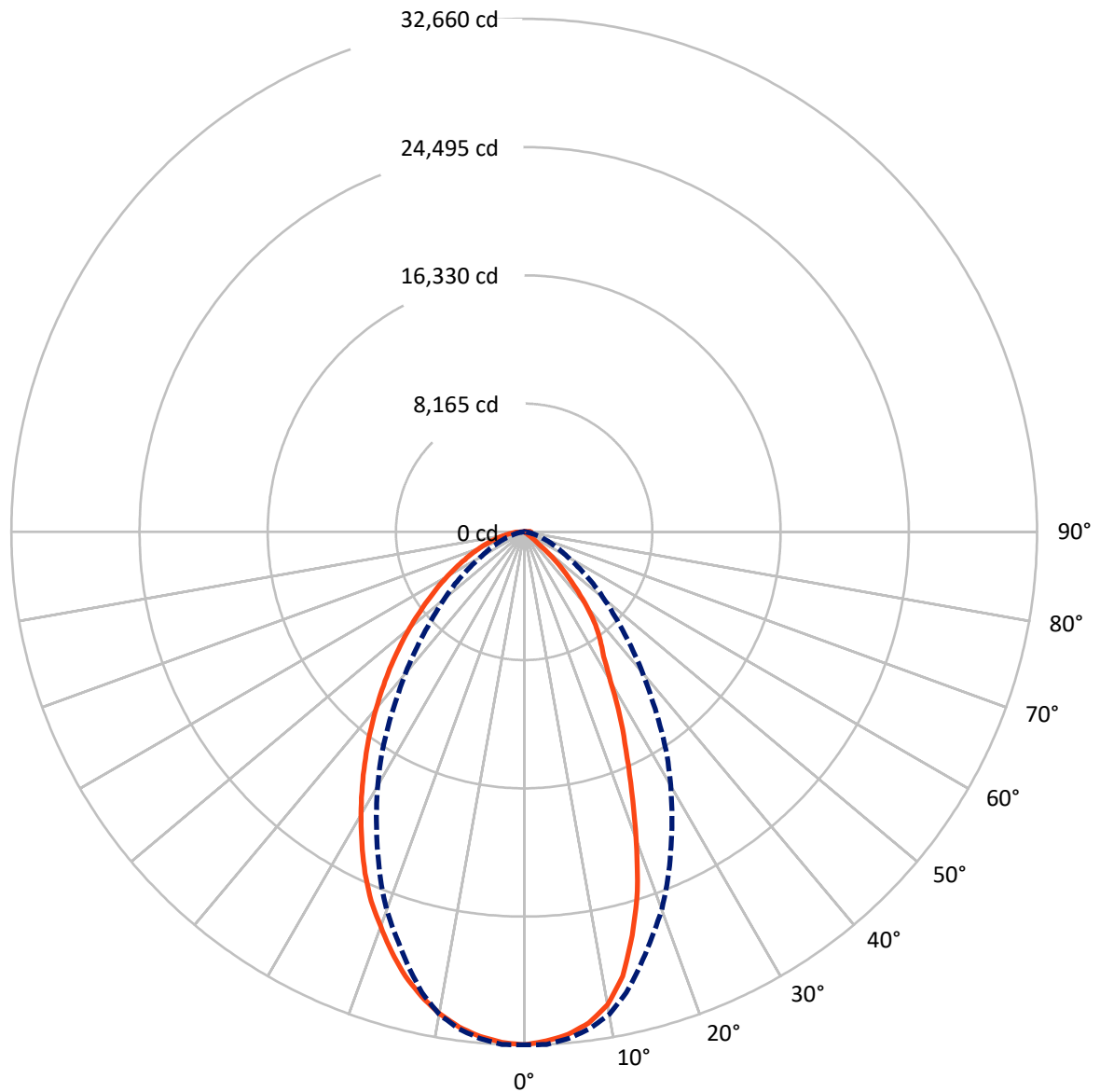
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### Lumen Table



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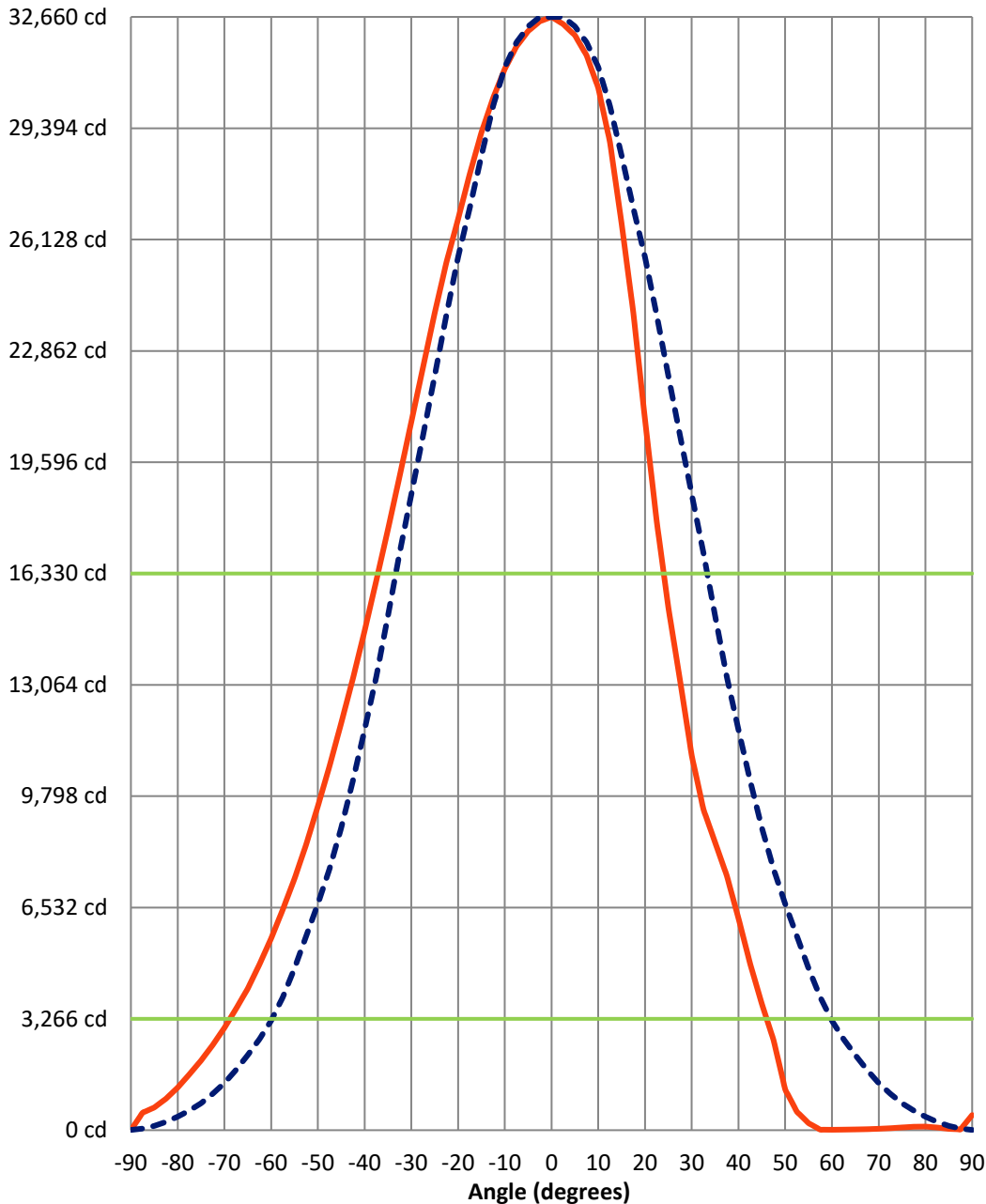
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 66.6°  
 V Angle: 61.2°  
 Lumens: 23591.2  
 Efficiency: 54.3%

**Field:**  
 H Angle: 119.6°  
 V Angle: 114.9°  
 Lumens: 40716.5  
 Efficiency: 93.7%

**Spill:**  
 Lumens: 2733.4  
 Efficiency: 6.3%

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



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	7.1	24.9	42.7	66.1	89.4	112.8	136.1	153.1	170.2	187.2	204.2
87.5°	7.1	9.0	10.3	11.2	11.9	12.4	12.8	12.8	12.6	12.3	11.8
85°	7.1	10.4	12.5	14.3	15.7	16.8	17.6	17.8	17.7	17.3	16.6
82.5°	7.1	11.8	14.7	17.3	19.5	21.1	22.3	22.8	23.2	24.9	26.3
80°	7.1	13.3	17.0	20.4	23.3	25.5	27.6	31.2	34.2	36.7	38.8
77.5°	7.1	14.7	19.2	23.5	27.1	31.6	36.8	41.2	45.2	48.6	50.1
75°	7.1	16.1	21.4	26.5	31.8	41.0	46.2	51.2	56.4	59.9	58.2
72.5°	7.1	17.4	23.7	29.6	40.6	50.5	55.7	62.5	70.0	71.6	67.2
70°	7.1	18.8	26.0	33.5	49.5	60.2	66.4	77.6	84.3	84.4	86.3
67.5°	7.1	20.2	28.3	41.0	58.4	70.0	82.6	93.2	99.4	108.1	108.8
65°	7.1	21.6	30.6	48.4	67.4	82.9	99.3	109.3	124.3	132.9	134.7
62.5°	7.1	22.9	32.9	55.9	76.5	98.8	116.4	131.7	149.9	160.3	167.1
60°	7.1	24.3	35.2	63.3	85.6	115.0	134.1	156.9	176.4	194.9	201.5
57.5°	7.1	25.6	40.6	70.7	99.5	131.4	158.3	183.1	209.9	231.1	241.8
55°	7.1	26.9	46.0	78.1	113.7	148.1	183.9	211.1	246.0	270.5	286.9
52.5°	7.1	28.2	51.3	85.5	127.9	166.0	209.9	246.3	283.3	317.4	335.4
50°	7.1	29.4	56.5	92.8	142.2	188.8	236.3	283.2	324.0	366.7	396.3
47.5°	7.1	30.7	61.6	100.9	156.5	211.7	264.1	320.9	371.6	418.5	463.6
45°	7.1	31.9	66.6	111.6	170.7	234.7	297.4	359.3	423.0	485.4	536.3
42.5°	7.1	33.1	71.4	122.3	184.9	257.7	330.9	402.7	476.1	556.4	634.1
40°	7.1	34.3	76.2	132.7	201.1	280.8	364.5	450.0	534.0	630.7	742.8
37.5°	7.1	35.4	80.8	142.9	219.0	303.8	398.3	497.9	598.6	710.2	859.1
35°	7.1	36.5	85.2	152.8	236.6	329.5	432.1	546.3	662.7	802.7	988.9
32.5°	7.1	37.5	89.5	162.3	253.8	356.3	467.6	595.1	726.0	891.5	1103.3
30°	7.1	38.6	93.6	171.5	270.7	382.6	507.1	645.0	788.4	976.4	1210.4
27.5°	7.1	39.5	97.6	180.2	286.0	408.4	546.2	697.0	853.7	1057.3	1310.3
25°	7.1	40.5	101.3	188.5	300.5	433.6	584.6	747.6	922.4	1139.8	1403.4
22.5°	7.1	41.4	104.9	196.4	314.3	456.9	622.2	796.7	987.5	1219.4	1501.1
20°	7.1	42.2	108.2	203.7	327.2	476.2	658.8	844.0	1048.7	1292.7	1593.4
17.5°	7.1	43.0	111.3	210.6	339.3	494.0	687.5	889.4	1106.0	1359.9	1679.8
15°	7.1	43.7	114.2	217.0	350.5	510.4	709.8	927.6	1159.3	1420.9	1759.9
12.5°	7.1	44.4	116.8	222.8	360.7	525.2	729.6	957.4	1206.3	1475.8	1833.3
10°	7.1	45.0	119.2	228.0	369.9	538.5	746.7	985.0	1248.5	1540.4	1908.2
7.5°	7.1	45.5	121.3	232.6	378.1	550.1	761.2	1010.2	1287.6	1604.3	1993.5
5°	7.1	46.0	123.2	236.7	385.3	560.1	773.2	1032.7	1323.1	1664.6	2071.5
2.5°	7.1	46.4	124.7	240.1	391.3	568.4	782.6	1051.9	1354.7	1720.1	2141.7
0°	7.1	46.7	126.0	242.8	396.2	575.0	789.4	1067.7	1381.7	1769.7	2203.6
-2.5°	7.1	47.6	127.9	246.5	402.7	585.7	808.4	1093.9	1415.4	1804.5	2242.7
-5°	7.1	48.5	129.6	249.5	407.9	594.6	824.6	1116.1	1443.9	1832.4	2272.9
-7.5°	7.1	49.2	130.9	251.7	411.9	601.6	837.8	1134.0	1466.8	1853.4	2294.0
-10°	7.1	49.9	131.9	253.3	414.5	606.5	847.8	1147.4	1484.1	1867.6	2306.0
-12.5°	7.1	50.5	132.5	254.1	415.8	609.4	854.2	1156.0	1495.5	1875.7	2315.4
-15°	7.1	51.0	132.9	254.1	415.7	610.1	857.0	1159.8	1499.3	1879.0	2317.7
-17.5°	7.1	51.4	132.9	253.3	414.1	608.5	855.8	1157.2	1495.0	1874.0	2309.1
-20°	7.1	51.7	132.6	251.8	411.0	604.6	851.1	1148.6	1484.1	1860.7	2289.4



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 CATALOG NUMBER: EPH-LS-08-0320L-40-80-7F-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	7.1	51.9	132.0	249.4	406.5	598.4	843.6	1135.5	1466.4	1838.7	2258.4
-25°	7.1	52.1	131.0	246.3	400.4	592.2	832.8	1117.9	1441.8	1808.0	2215.9
-27.5°	7.1	52.1	129.7	242.3	392.8	584.6	818.7	1095.6	1410.3	1770.9	2174.3
-30°	7.1	52.1	128.1	237.5	384.0	574.5	801.4	1068.9	1377.2	1729.9	2122.8
-32.5°	7.1	51.9	126.1	232.0	375.9	561.8	780.7	1043.3	1341.8	1680.5	2061.0
-35°	7.1	51.7	123.8	225.6	366.2	546.5	761.5	1015.6	1301.2	1622.9	1989.0
-37.5°	7.1	51.3	121.2	218.4	354.9	530.2	740.8	984.2	1255.4	1557.0	1914.2
-40°	7.1	50.9	118.3	210.5	342.0	514.4	716.9	949.0	1204.7	1495.2	1835.4
-42.5°	7.1	50.3	115.1	202.2	330.0	496.5	689.6	910.1	1156.6	1434.0	1749.3
-45°	7.1	49.7	111.6	194.1	319.1	476.4	659.1	870.4	1107.8	1365.5	1658.1
-47.5°	7.1	49.0	107.8	185.1	307.1	454.2	625.5	830.6	1055.0	1289.9	1572.2
-50°	7.1	48.2	103.7	178.8	293.7	430.0	594.9	786.9	995.8	1222.0	1477.6
-52.5°	7.1	47.3	99.3	172.9	279.2	403.8	562.7	739.5	936.0	1148.2	1376.7
-55°	7.1	46.3	94.6	166.3	263.5	382.2	528.1	689.4	873.7	1068.7	1285.9
-57.5°	7.1	45.2	89.7	159.2	246.6	360.3	491.0	644.8	807.1	990.0	1188.8
-60°	7.1	44.1	84.5	151.4	229.1	336.9	452.8	596.0	739.2	908.2	1088.8
-62.5°	7.1	42.8	81.9	143.1	216.9	312.1	421.6	544.0	677.6	822.1	989.9
-65°	7.1	41.5	79.0	134.2	203.9	285.9	388.7	493.3	613.0	743.6	886.3
-67.5°	7.1	40.1	76.0	124.8	190.0	262.8	354.1	449.8	545.5	664.8	790.4
-70°	7.1	38.7	72.8	114.9	175.4	242.8	318.0	404.6	491.5	583.0	696.1
-72.5°	7.1	37.1	69.5	108.7	160.2	221.8	289.3	357.8	436.0	517.8	603.1
-75°	7.1	35.6	66.0	103.3	144.3	199.9	260.8	318.4	378.9	451.1	526.4
-77.5°	7.1	33.9	62.4	97.6	134.6	177.3	231.1	281.0	332.6	386.8	447.8
-80°	7.1	32.2	58.7	91.7	126.1	161.8	200.6	242.7	286.4	332.3	380.4
-82.5°	7.1	30.4	54.8	85.5	117.3	150.0	183.6	210.6	239.3	276.7	315.7
-85°	7.1	28.6	50.9	79.2	108.2	137.9	168.1	191.7	215.4	239.4	263.6
-87.5°	7.1	26.8	46.8	72.7	98.9	125.4	152.3	172.6	193.0	213.5	234.1
-90°	7.1	7.6	8.1	8.1	8.1	8.1	8.1	7.9	7.6	7.4	7.1





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 CATALOG NUMBER: EPH-LS-08-0320L-40-80-7F-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	219.2	234.2	249.1	264.1	278.9	293.6	308.4	323.1	336.8	350.5	364.2
87.5°	12.2	12.4	12.7	13.0	12.4	11.8	11.2	10.4	11.3	12.2	13.2
85°	17.2	17.8	19.3	20.4	21.2	22.3	23.6	25.2	28.2	31.2	34.1
82.5°	28.6	30.5	31.9	32.7	35.6	39.1	42.8	46.3	49.7	52.9	55.9
80°	41.3	43.3	43.7	44.2	47.9	52.6	57.4	62.5	66.6	70.3	73.8
77.5°	50.6	51.8	53.1	54.6	59.5	66.1	72.8	79.5	84.5	88.5	92.1
75°	57.9	60.0	64.9	67.9	73.3	81.1	88.9	96.4	101.4	104.2	106.0
72.5°	69.8	76.9	81.2	82.8	88.0	97.2	105.4	112.8	116.6	116.1	113.7
70°	88.1	94.6	100.3	102.3	104.6	113.5	120.3	125.5	127.9	123.3	114.1
67.5°	107.9	117.8	123.0	123.2	120.0	127.8	133.9	133.1	129.1	119.0	107.0
65°	133.2	142.7	147.3	145.4	136.8	138.5	138.1	134.5	125.3	111.4	97.1
62.5°	161.5	170.1	173.7	168.9	153.1	146.4	142.5	133.2	119.1	105.5	91.9
60°	197.6	199.5	201.9	193.2	173.4	154.7	147.4	138.1	122.9	104.4	93.2
57.5°	238.1	231.6	232.7	223.0	200.2	166.8	163.5	151.7	138.9	114.4	102.9
55°	284.8	267.0	269.8	261.0	240.0	202.7	190.0	188.3	170.3	151.1	129.9
52.5°	340.9	316.6	316.1	314.7	303.3	271.1	242.1	262.3	273.6	252.1	265.8
50°	403.8	391.7	373.6	394.7	401.4	384.4	358.9	415.3	483.3	514.4	513.6
47.5°	487.4	480.3	464.5	502.9	550.8	594.7	605.2	707.2	810.1	923.9	937.4
45°	585.9	604.0	595.0	676.4	779.0	897.0	984.7	1083.6	1317.9	1453.8	1655.2
42.5°	695.2	747.9	796.0	872.9	1114.9	1265.1	1397.4	1645.6	1878.7	2075.7	2283.8
40°	835.8	905.2	1010.3	1219.5	1480.3	1654.2	1881.8	2164.7	2400.7	2623.3	2836.3
37.5°	988.3	1104.3	1246.6	1546.4	1843.2	2061.1	2339.8	2620.3	2888.7	3138.4	3436.3
35°	1149.5	1304.0	1528.2	1841.4	2152.9	2456.3	2763.1	3075.5	3381.8	3724.0	4058.9
32.5°	1324.9	1504.0	1786.9	2119.5	2468.1	2820.6	3177.1	3541.9	3931.2	4330.1	4685.4
30°	1483.2	1726.8	2027.9	2388.6	2782.1	3186.9	3602.9	4022.7	4500.6	4972.9	5399.1
27.5°	1604.2	1930.8	2267.1	2665.8	3096.9	3548.4	4030.3	4550.5	5106.9	5648.3	6154.3
25°	1720.2	2087.9	2496.5	2942.9	3421.8	3929.4	4468.5	5050.8	5733.7	6368.0	6999.2
22.5°	1841.8	2246.1	2687.0	3212.9	3738.1	4315.8	4913.9	5584.1	6338.8	7088.6	7855.7
20°	1971.1	2409.8	2875.0	3429.6	4034.0	4696.4	5333.1	6113.2	6952.7	7824.0	8759.7
17.5°	2097.1	2560.2	3057.3	3641.8	4296.8	5038.8	5737.4	6625.3	7555.6	8552.2	9610.5
15°	2218.6	2697.4	3223.5	3836.9	4551.1	5338.8	6155.7	7128.7	8169.1	9269.3	10380.7
12.5°	2334.1	2821.2	3373.4	4014.1	4788.5	5630.3	6530.2	7553.5	8693.0	9909.2	11120.6
10°	2442.0	2931.7	3506.5	4172.3	5006.3	5908.2	6863.5	7933.2	9118.1	10371.1	11722.2
7.5°	2523.8	3023.4	3623.9	4310.9	5201.4	6167.3	7155.2	8266.0	9477.3	10782.3	12234.8
5°	2586.5	3098.0	3732.5	4470.8	5389.0	6381.6	7395.2	8549.7	9771.7	11136.2	12677.4
2.5°	2634.1	3161.0	3825.6	4619.3	5557.0	6527.6	7551.7	8735.9	10036.6	11466.6	13037.0
0°	2668.8	3211.4	3901.2	4746.4	5693.3	6635.0	7667.2	8871.1	10251.7	11746.2	13302.6
-2.5°	2727.8	3300.7	4007.0	4847.1	5778.3	6740.2	7816.1	9059.4	10455.8	11922.6	13531.6
-5°	2775.0	3374.1	4092.4	4922.8	5833.7	6809.1	7918.6	9190.3	10589.5	12041.3	13649.8
-7.5°	2809.3	3429.7	4156.6	4973.1	5870.7	6864.7	7990.3	9255.5	10639.5	12112.3	13668.3
-10°	2829.5	3456.0	4176.8	4988.0	5890.7	6894.7	8017.8	9265.0	10624.5	12095.6	13617.6
-12.5°	2837.1	3455.4	4170.6	4975.9	5875.4	6880.4	7996.0	9219.8	10546.2	11988.1	13488.5
-15°	2832.1	3437.7	4141.6	4936.4	5823.6	6820.1	7924.5	9120.9	10400.8	11769.2	13227.3
-17.5°	2814.4	3402.8	4089.4	4869.3	5734.7	6712.6	7796.9	8938.1	10191.9	11516.4	12895.5
-20°	2783.9	3350.6	4014.0	4774.6	5613.3	6571.4	7616.8	8721.5	9925.8	11214.7	12523.7



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 CATALOG NUMBER: EPH-LS-08-0320L-40-80-7F-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2740.9	3281.4	3925.8	4668.0	5496.7	6410.9	7401.6	8460.8	9586.8	10854.6	12102.2
-25°	2691.4	3220.2	3833.6	4551.8	5349.4	6222.9	7149.7	8162.5	9225.2	10411.8	11619.3
-27.5°	2635.0	3145.8	3735.3	4412.5	5168.7	6013.9	6900.0	7850.8	8857.1	9924.0	11081.8
-30°	2565.3	3061.4	3617.6	4260.0	4985.6	5786.4	6638.5	7497.9	8451.1	9457.1	10518.3
-32.5°	2482.6	2959.3	3500.2	4112.0	4786.3	5523.1	6333.3	7150.5	8029.9	8961.0	9944.6
-35°	2394.1	2855.7	3369.4	3943.4	4567.7	5258.2	5998.1	6775.4	7584.3	8459.2	9324.4
-37.5°	2305.0	2737.2	3216.6	3764.9	4362.9	4976.3	5641.8	6381.3	7139.3	7912.8	8707.4
-40°	2204.8	2604.1	3064.6	3575.8	4117.3	4686.5	5310.0	5970.1	6674.7	7372.6	8084.8
-42.5°	2095.7	2481.4	2903.5	3359.6	3866.4	4396.1	4955.5	5573.3	6187.4	6821.2	7478.8
-45°	1992.1	2347.2	2732.0	3156.0	3603.9	4093.7	4615.9	5155.8	5708.7	6268.8	6867.4
-47.5°	1880.8	2208.0	2570.4	2937.9	3349.4	3792.8	4262.4	4748.2	5227.1	5740.6	6252.3
-50°	1764.9	2077.3	2389.5	2731.1	3096.6	3494.5	3920.4	4339.4	4777.3	5221.9	5683.1
-52.5°	1648.6	1938.8	2221.6	2520.6	2851.2	3204.6	3575.7	3950.0	4339.1	4730.6	5125.9
-55°	1523.1	1792.3	2049.0	2319.0	2608.9	2925.5	3239.7	3576.5	3913.8	4272.0	4596.8
-57.5°	1404.3	1633.9	1871.5	2118.2	2377.7	2647.1	2926.2	3208.0	3514.9	3823.8	4102.1
-60°	1287.3	1481.5	1689.0	1914.6	2146.8	2385.5	2616.7	2868.2	3127.9	3380.8	3635.5
-62.5°	1165.8	1337.8	1515.2	1706.6	1918.0	2123.6	2332.3	2544.2	2755.8	2980.2	3195.5
-65°	1046.1	1192.7	1350.0	1515.9	1685.8	1871.6	2055.1	2234.0	2423.0	2606.7	2785.0
-67.5°	921.0	1055.3	1189.9	1328.2	1480.1	1631.8	1784.4	1948.8	2108.3	2258.4	2409.7
-70°	809.1	917.3	1036.5	1158.4	1279.3	1403.8	1539.3	1675.1	1808.5	1936.4	2067.3
-72.5°	698.0	795.0	892.4	990.1	1095.2	1200.0	1305.8	1412.4	1523.9	1635.5	1744.0
-75°	598.9	671.7	756.3	842.5	924.6	1004.7	1086.6	1177.2	1266.3	1353.9	1440.6
-77.5°	508.7	570.0	633.5	698.9	761.3	828.5	895.9	963.4	1029.9	1095.0	1158.8
-80°	423.7	466.8	517.9	570.9	620.5	669.4	718.3	767.1	816.4	867.9	921.1
-82.5°	350.8	385.9	421.4	457.3	490.3	522.5	555.8	593.9	632.8	671.5	709.8
-85°	284.0	304.1	331.4	359.0	385.3	411.3	436.9	462.1	488.1	513.6	538.8
-87.5°	251.7	269.3	286.8	304.1	320.9	337.5	354.0	370.3	387.0	403.7	420.3
-90°	7.1	7.1	7.1	7.1	6.9	6.6	6.4	6.1	5.9	5.6	5.4



REPORT NUMBER: P701362 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-7F-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	377.9	382.2	386.6	390.9	395.2	405.4	415.5	425.7	435.8	438.1	440.4
87.5°	14.3	14.3	14.3	14.2	14.2	16.4	18.8	21.2	23.7	23.4	23.1
85°	37.0	37.5	37.7	37.8	37.6	40.7	43.9	46.9	49.9	47.9	45.5
82.5°	58.8	59.9	60.9	62.0	63.1	66.3	69.5	72.6	75.4	76.3	77.2
80°	77.0	79.0	80.5	81.7	82.6	85.3	88.3	91.1	93.8	96.7	99.6
77.5°	94.7	95.3	95.0	94.0	92.5	93.0	93.6	93.9	94.0	95.5	97.2
75°	106.9	105.5	101.3	96.5	91.1	87.8	85.3	82.8	80.1	79.7	79.9
72.5°	109.6	104.0	97.1	88.6	80.2	74.3	70.4	66.6	62.9	61.2	60.1
70°	103.8	93.1	83.8	74.7	65.7	59.1	55.2	51.6	48.3	46.2	44.7
67.5°	93.4	80.2	70.5	61.1	52.4	45.6	42.1	39.0	36.1	33.9	32.4
65°	82.9	68.9	59.5	50.5	41.7	35.0	32.3	29.7	27.2	25.3	24.2
62.5°	77.1	62.4	52.7	44.8	36.8	29.1	26.3	23.6	21.0	18.9	18.0
60°	79.2	62.5	50.7	43.4	35.1	26.1	22.7	20.2	17.5	15.1	14.2
57.5°	91.6	73.4	55.8	52.9	44.6	31.2	32.5	37.8	33.8	23.3	22.1
55°	140.2	135.6	88.8	114.9	133.6	125.9	117.6	155.6	174.2	175.1	192.3
52.5°	278.5	311.4	299.1	313.3	390.6	421.9	417.8	485.8	521.1	516.3	534.7
50°	586.4	653.6	736.5	749.8	879.4	969.3	991.0	1069.8	1157.3	1190.7	1228.4
47.5°	1144.3	1302.0	1382.0	1472.2	1621.4	1784.8	1911.5	2024.9	2147.8	2231.8	2333.2
45°	1864.1	1975.5	2114.7	2324.2	2551.9	2765.2	2965.5	3148.1	3268.5	3375.9	3489.9
42.5°	2456.2	2634.1	2867.6	3180.1	3504.1	3723.0	3887.8	4063.8	4251.9	4430.8	4595.7
40°	3062.5	3268.6	3639.1	3993.3	4235.0	4446.3	4671.9	4910.7	5156.6	5391.2	5624.6
37.5°	3712.2	4017.0	4341.4	4651.0	4906.7	5106.6	5415.8	5680.3	5926.7	6276.1	6596.5
35°	4403.7	4734.9	5013.6	5367.7	5653.6	5900.1	6223.7	6556.8	6770.1	7249.3	7664.2
32.5°	5091.6	5477.6	5849.2	6185.4	6540.2	6920.4	7235.3	7692.3	8039.9	8498.3	8948.9
30°	5808.3	6337.5	6801.4	7170.3	7653.7	8145.2	8586.9	9125.1	9637.5	10064.1	10541.7
27.5°	6712.7	7301.1	7866.9	8435.4	8951.8	9565.5	10268.7	10838.0	11494.0	11959.2	12458.7
25°	7672.3	8373.3	9125.7	9858.6	10536.0	11329.9	12127.2	12822.7	13502.6	14038.6	14572.4
22.5°	8715.8	9563.4	10458.9	11381.5	12297.3	13167.1	14022.9	14883.6	15667.3	16404.0	16917.2
20°	9775.5	10716.7	11804.2	12915.8	13970.3	14952.2	15980.5	17068.9	18064.8	18918.5	19550.7
17.5°	10731.5	11912.0	13108.1	14327.8	15517.0	16730.5	18006.4	19286.4	20465.6	21465.4	22304.8
15°	11592.6	12930.3	14315.0	15691.0	17058.6	18455.7	19946.6	21325.7	22647.4	23794.0	24775.3
12.5°	12441.8	13870.5	15354.9	16897.8	18519.1	20031.7	21549.7	23036.8	24421.9	25754.8	26737.8
10°	13193.5	14736.1	16325.2	17978.6	19657.8	21298.8	22898.8	24449.1	25809.9	27068.5	28257.8
7.5°	13805.9	15460.3	17156.3	18895.3	20623.6	22285.3	23914.9	25464.1	26845.3	28135.1	29351.3
5°	14334.1	16088.8	17839.2	19572.2	21311.1	23034.7	24680.0	26207.5	27646.2	28986.5	30205.3
2.5°	14765.2	16594.8	18368.3	20075.2	21807.2	23571.4	25258.1	26733.9	28237.8	29601.0	30800.7
0°	15088.6	16935.5	18652.5	20374.5	22128.0	23911.9	25608.5	27054.2	28585.2	30042.0	31182.9
-2.5°	15265.5	17004.0	18712.9	20440.6	22246.9	24082.1	25776.3	27334.5	28856.7	30222.4	31283.0
-5°	15326.9	17037.2	18739.9	20498.8	22289.5	24095.7	25784.2	27346.5	28808.3	30085.6	31053.1
-7.5°	15285.7	16979.1	18664.8	20406.4	22185.8	23970.4	25631.7	27126.2	28533.9	29743.8	30666.9
-10°	15161.2	16801.0	18487.4	20200.3	21983.5	23745.4	25373.5	26721.7	28065.8	29200.9	30073.7
-12.5°	14955.4	16525.5	18188.6	19863.5	21613.0	23306.7	24823.9	26166.3	27367.3	28517.0	29281.0
-15°	14663.4	16177.2	17767.2	19407.4	21064.9	22703.4	24182.7	25480.2	26592.8	27499.7	28304.4
-17.5°	14297.2	15757.9	17281.5	18853.2	20392.3	21951.1	23322.0	24622.3	25692.6	26500.0	27124.3
-20°	13846.5	15264.0	16721.0	18221.6	19651.6	20977.4	22298.9	23508.0	24566.0	25355.4	25955.5



REPORT NUMBER: P701362 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-7F-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	13370.7	14708.0	16088.4	17441.5	18743.7	19990.0	21186.9	22296.6	23302.6	24049.0	24623.2
-25°	12829.3	14080.1	15356.4	16578.3	17767.7	18928.1	20012.9	21041.2	21919.3	22645.4	23178.6
-27.5°	12236.5	13401.0	14553.0	15689.5	16792.9	17796.0	18794.3	19722.5	20494.7	21162.5	21634.6
-30°	11588.6	12653.6	13733.2	14798.6	15753.1	16656.7	17543.6	18349.4	19057.2	19643.6	20067.0
-32.5°	10905.3	11878.3	12879.7	13843.0	14680.1	15495.3	16268.7	16975.0	17624.0	18142.1	18524.1
-35°	10198.9	11100.3	11999.6	12832.5	13612.7	14337.9	15004.3	15630.3	16168.0	16640.3	17014.7
-37.5°	9504.1	10316.0	11096.4	11823.6	12544.6	13209.7	13791.7	14341.0	14829.9	15223.8	15552.0
-40°	8822.6	9541.3	10205.8	10853.1	11497.2	12060.2	12588.8	13062.5	13495.1	13871.4	14163.0
-42.5°	8145.2	8764.1	9337.6	9920.1	10477.0	10965.3	11425.5	11835.9	12211.3	12548.6	12831.3
-45°	7465.3	7994.6	8505.1	9017.2	9479.6	9914.5	10314.5	10675.1	11010.5	11294.5	11526.3
-47.5°	6770.9	7240.4	7704.1	8147.9	8531.6	8907.3	9251.7	9575.6	9877.9	10133.2	10338.1
-50°	6107.8	6522.9	6938.1	7304.9	7627.5	7940.4	8231.9	8544.6	8824.4	9057.0	9226.3
-52.5°	5485.3	5860.6	6217.5	6518.0	6790.7	7035.0	7258.9	7549.4	7812.7	8041.2	8191.3
-55°	4918.5	5239.6	5545.6	5793.8	6021.5	6225.3	6428.5	6662.0	6874.5	7064.6	7190.1
-57.5°	4384.9	4657.1	4911.7	5120.6	5310.5	5480.8	5669.5	5864.8	6039.1	6189.1	6290.1
-60°	3878.9	4110.7	4321.8	4493.7	4651.6	4795.0	4974.5	5144.9	5295.5	5417.9	5493.3
-62.5°	3401.7	3609.5	3773.7	3911.9	4038.0	4158.8	4315.7	4462.9	4598.8	4707.4	4770.5
-65°	2964.7	3146.7	3268.7	3378.2	3477.6	3586.4	3719.8	3839.5	3945.7	4026.3	4081.2
-67.5°	2566.4	2710.4	2806.6	2893.6	2978.7	3071.9	3185.1	3289.6	3385.1	3451.5	3492.6
-70°	2195.3	2306.3	2384.3	2458.3	2529.4	2609.2	2702.0	2788.4	2868.1	2919.7	2952.4
-72.5°	1849.1	1933.7	1998.2	2061.8	2119.2	2187.6	2263.3	2334.1	2399.9	2438.7	2463.6
-75°	1526.2	1591.1	1643.9	1692.7	1737.5	1795.1	1856.4	1913.9	1967.4	1997.0	2016.1
-77.5°	1226.7	1276.4	1316.1	1352.5	1385.5	1431.2	1478.3	1522.6	1563.9	1590.3	1611.4
-80°	973.1	1003.1	1027.5	1050.3	1071.3	1105.4	1140.0	1172.6	1203.2	1220.3	1234.0
-82.5°	747.5	765.7	780.3	793.0	804.0	827.7	851.4	873.9	895.0	906.1	915.6
-85°	563.5	573.3	581.5	588.8	595.3	611.8	628.2	644.0	659.2	662.4	664.7
-87.5°	436.9	442.2	447.3	452.2	456.9	469.1	481.3	493.5	505.5	507.6	509.4
-90°	5.1	4.9	4.6	4.4	4.1	3.8	3.6	3.3	3.0	2.8	2.5



REPORT NUMBER: P701362 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-7F-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	442.7	445.0	443.5	441.9	443.5	445.0	442.7	440.4	438.1	435.8	425.7
87.5°	22.7	22.3	22.4	22.4	22.4	22.3	22.7	23.1	23.4	23.7	21.2
85°	43.1	40.5	38.6	36.6	38.6	40.5	43.1	45.5	47.9	49.9	46.9
82.5°	78.0	78.8	78.6	78.2	78.6	78.8	78.0	77.2	76.3	75.4	72.6
80°	102.5	105.2	106.1	106.7	106.1	105.2	102.5	99.6	96.7	93.8	91.1
77.5°	98.9	100.6	101.1	101.6	101.1	100.6	98.9	97.2	95.5	94.0	93.9
75°	80.2	80.7	80.4	80.3	80.4	80.7	80.2	79.9	79.7	80.1	82.8
72.5°	59.2	58.5	58.1	57.9	58.1	58.5	59.2	60.1	61.2	62.9	66.6
70°	43.4	42.3	41.3	40.6	41.3	42.3	43.4	44.7	46.2	48.3	51.6
67.5°	31.1	30.0	29.1	28.4	29.1	30.0	31.1	32.4	33.9	36.1	39.0
65°	23.4	22.7	22.0	21.3	22.0	22.7	23.4	24.2	25.3	27.2	29.7
62.5°	17.3	16.6	16.4	16.3	16.4	16.6	17.3	18.0	18.9	21.0	23.6
60°	13.4	12.6	12.3	12.2	12.3	12.6	13.4	14.2	15.1	17.5	20.2
57.5°	20.0	17.1	15.4	14.2	15.4	17.1	20.0	22.1	23.3	33.8	37.8
55°	201.5	202.1	206.1	210.3	206.1	202.1	201.5	192.3	175.1	174.2	155.6
52.5°	548.8	547.0	542.0	532.3	542.0	547.0	548.8	534.7	516.3	521.1	485.8
50°	1251.1	1233.4	1195.1	1140.9	1195.1	1233.4	1251.1	1228.4	1190.7	1157.3	1069.8
47.5°	2469.8	2572.0	2642.7	2673.9	2642.7	2572.0	2469.8	2333.2	2231.8	2147.8	2024.9
45°	3608.5	3669.1	3704.5	3732.5	3704.5	3669.1	3608.5	3489.9	3375.9	3268.5	3148.1
42.5°	4736.0	4832.0	4879.3	4871.4	4879.3	4832.0	4736.0	4595.7	4430.8	4251.9	4063.8
40°	5848.7	6049.8	6214.8	6333.3	6214.8	6049.8	5848.7	5624.6	5391.2	5156.6	4910.7
37.5°	6913.4	7212.8	7465.7	7648.9	7465.7	7212.8	6913.4	6596.5	6276.1	5926.7	5680.3
35°	8003.6	8267.7	8440.9	8516.5	8440.9	8267.7	8003.6	7664.2	7249.3	6770.1	6556.8
32.5°	9236.3	9383.0	9414.1	9492.8	9414.1	9383.0	9236.3	8948.9	8498.3	8039.9	7692.3
30°	10832.6	10985.1	10988.7	11087.9	10988.7	10985.1	10832.6	10541.7	10064.1	9637.5	9125.1
27.5°	12852.4	13109.2	13192.6	13280.2	13192.6	13109.2	12852.4	12458.7	11959.2	11494.0	10838.0
25°	15015.3	15254.7	15331.3	15301.9	15331.3	15254.7	15015.3	14572.4	14038.6	13502.6	12822.7
22.5°	17443.0	17753.3	17866.1	17809.2	17866.1	17753.3	17443.0	16917.2	16404.0	15667.3	14883.6
20°	20160.0	20607.9	20844.7	20951.5	20844.7	20607.9	20160.0	19550.7	18918.5	18064.8	17068.9
17.5°	23019.9	23680.0	23983.1	24072.4	23983.1	23680.0	23019.9	22304.8	21465.4	20465.6	19286.4
15°	25621.7	26198.1	26591.1	26793.1	26591.1	26198.1	25621.7	24775.3	23794.0	22647.4	21325.7
12.5°	27633.4	28368.0	28980.2	29308.5	28980.2	28368.0	27633.4	26737.8	25754.8	24421.9	23036.8
10°	29273.3	30014.9	30571.7	30841.6	30571.7	30014.9	29273.3	28257.8	27068.5	25809.9	24449.1
7.5°	30407.8	31097.2	31529.4	31706.1	31529.4	31097.2	30407.8	29351.3	28135.1	26845.3	25464.1
5°	31141.2	31800.2	32119.7	32234.4	32119.7	31800.2	31141.2	30205.3	28986.5	27646.2	26207.5
2.5°	31669.2	32190.7	32446.5	32463.0	32446.5	32190.7	31669.2	30800.7	29601.0	28237.8	26733.9
0°	31910.3	32379.7	32660.1	32655.0	32660.1	32379.7	31910.3	31182.9	30042.0	28585.2	27054.2
-2.5°	31922.0	32330.4	32529.6	32417.3	32529.6	32330.4	31922.0	31283.0	30222.4	28856.7	27334.5
-5°	31694.4	32094.0	32243.4	32209.0	32243.4	32094.0	31694.4	31053.1	30085.6	28808.3	27346.5
-7.5°	31285.6	31640.2	31792.7	31797.6	31792.7	31640.2	31285.6	30666.9	29743.8	28533.9	27126.2
-10°	30662.3	30958.6	31133.2	31083.4	31133.2	30958.6	30662.3	30073.7	29200.9	28065.8	26721.7
-12.5°	29837.7	30130.2	30278.2	30248.3	30278.2	30130.2	29837.7	29281.0	28517.0	27367.3	26166.3
-15°	28851.3	29129.3	29268.1	29254.7	29268.1	29129.3	28851.3	28304.4	27499.7	26592.8	25480.2
-17.5°	27630.1	27908.8	28050.8	28070.1	28050.8	27908.8	27630.1	27124.3	26500.0	25692.6	24622.3
-20°	26350.4	26596.1	26726.2	26728.1	26726.2	26596.1	26350.4	25955.5	25355.4	24566.0	23508.0



REPORT NUMBER: P701362 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	25023.8	25299.7	25454.1	25430.7	25454.1	25299.7	25023.8	24623.2	24049.0	23302.6	22296.6
-25°	23545.1	23821.6	23971.8	23965.8	23971.8	23821.6	23545.1	23178.6	22645.4	21919.3	21041.2
-27.5°	21966.5	22232.3	22377.2	22395.1	22377.2	22232.3	21966.5	21634.6	21162.5	20494.7	19722.5
-30°	20376.5	20638.5	20780.4	20792.0	20780.4	20638.5	20376.5	20067.0	19643.6	19057.2	18349.4
-32.5°	18818.4	19055.0	19186.0	19200.0	19186.0	19055.0	18818.4	18524.1	18142.1	17624.0	16975.0
-35°	17298.2	17506.1	17623.8	17661.9	17623.8	17506.1	17298.2	17014.7	16640.3	16168.0	15630.3
-37.5°	15818.8	16006.7	16120.3	16189.9	16120.3	16006.7	15818.8	15552.0	15223.8	14829.9	14341.0
-40°	14389.8	14554.5	14645.1	14646.7	14645.1	14554.5	14389.8	14163.0	13871.4	13495.1	13062.5
-42.5°	13040.8	13179.4	13248.7	13249.8	13248.7	13179.4	13040.8	12831.3	12548.6	12211.3	11835.9
-45°	11713.0	11848.6	11944.6	12005.2	11944.6	11848.6	11713.0	11526.3	11294.5	11010.5	10675.1
-47.5°	10494.3	10605.4	10681.6	10723.1	10681.6	10605.4	10494.3	10338.1	10133.2	9877.9	9575.6
-50°	9350.3	9439.2	9504.1	9542.6	9504.1	9439.2	9350.3	9226.3	9057.0	8824.4	8544.6
-52.5°	8293.1	8358.0	8381.3	8366.2	8381.3	8358.0	8293.1	8191.3	8041.2	7812.7	7549.4
-55°	7284.1	7348.8	7374.6	7365.5	7374.6	7348.8	7284.1	7190.1	7064.6	6874.5	6662.0
-57.5°	6369.6	6427.0	6472.8	6500.9	6472.8	6427.0	6369.6	6290.1	6189.1	6039.1	5864.8
-60°	5552.7	5595.1	5624.0	5635.4	5624.0	5595.1	5552.7	5493.3	5417.9	5295.5	5144.9
-62.5°	4814.8	4841.2	4861.7	4870.4	4861.7	4841.2	4814.8	4770.5	4707.4	4598.8	4462.9
-65°	4125.0	4157.2	4153.4	4130.8	4153.4	4157.2	4125.0	4081.2	4026.3	3945.7	3839.5
-67.5°	3523.6	3544.5	3562.5	3572.0	3562.5	3544.5	3523.6	3492.6	3451.5	3385.1	3289.6
-70°	2977.4	2994.6	3001.0	2999.0	3001.0	2994.6	2977.4	2952.4	2919.7	2868.1	2788.4
-72.5°	2482.4	2494.9	2497.4	2493.1	2497.4	2494.9	2482.4	2463.6	2438.7	2399.9	2334.1
-75°	2029.7	2038.1	2042.3	2042.0	2042.3	2038.1	2029.7	2016.1	1997.0	1967.4	1913.9
-77.5°	1629.1	1643.1	1637.1	1626.5	1637.1	1643.1	1629.1	1611.4	1590.3	1563.9	1522.6
-80°	1245.1	1253.6	1249.0	1241.5	1249.0	1253.6	1245.1	1234.0	1220.3	1203.2	1172.6
-82.5°	923.7	930.5	922.8	913.3	922.8	930.5	923.7	915.6	906.1	895.0	873.9
-85°	666.3	667.3	666.7	665.4	666.7	667.3	666.3	664.7	662.4	659.2	644.0
-87.5°	511.2	512.7	511.4	510.0	511.4	512.7	511.2	509.4	507.6	505.5	493.5
-90°	2.3	2.0	2.5	3.0	2.5	2.0	2.3	2.5	2.8	3.0	3.3



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	415.5	405.4	395.2	390.9	386.6	382.2	377.9	364.2	350.5	336.8	323.1
87.5°	18.8	16.4	14.2	14.2	14.3	14.3	14.3	13.2	12.2	11.3	10.4
85°	43.9	40.7	37.6	37.8	37.7	37.5	37.0	34.1	31.2	28.2	25.2
82.5°	69.5	66.3	63.1	62.0	60.9	59.9	58.8	55.9	52.9	49.7	46.3
80°	88.3	85.3	82.6	81.7	80.5	79.0	77.0	73.8	70.3	66.6	62.5
77.5°	93.6	93.0	92.5	94.0	95.0	95.3	94.7	92.1	88.5	84.5	79.5
75°	85.3	87.8	91.1	96.5	101.3	105.5	106.9	106.0	104.2	101.4	96.4
72.5°	70.4	74.3	80.2	88.6	97.1	104.0	109.6	113.7	116.1	116.6	112.8
70°	55.2	59.1	65.7	74.7	83.8	93.1	103.8	114.1	123.3	127.9	125.5
67.5°	42.1	45.6	52.4	61.1	70.5	80.2	93.4	107.0	119.0	129.1	133.1
65°	32.3	35.0	41.7	50.5	59.5	68.9	82.9	97.1	111.4	125.3	134.5
62.5°	26.3	29.1	36.8	44.8	52.7	62.4	77.1	91.9	105.5	119.1	133.2
60°	22.7	26.1	35.1	43.4	50.7	62.5	79.2	93.2	104.4	122.9	138.1
57.5°	32.5	31.2	44.6	52.9	55.8	73.4	91.6	102.9	114.4	138.9	151.7
55°	117.6	125.9	133.6	114.9	88.8	135.6	140.2	129.9	151.1	170.3	188.3
52.5°	417.8	421.9	390.6	313.3	299.1	311.4	278.5	265.8	252.1	273.6	262.3
50°	991.0	969.3	879.4	749.8	736.5	653.6	586.4	513.6	514.4	483.3	415.3
47.5°	1911.5	1784.8	1621.4	1472.2	1382.0	1302.0	1144.3	937.4	923.9	810.1	707.2
45°	2965.5	2765.2	2551.9	2324.2	2114.7	1975.5	1864.1	1655.2	1453.8	1317.9	1083.6
42.5°	3887.8	3723.0	3504.1	3180.1	2867.6	2634.1	2456.2	2283.8	2075.7	1878.7	1645.6
40°	4671.9	4446.3	4235.0	3993.3	3639.1	3268.6	3062.5	2836.3	2623.3	2400.7	2164.7
37.5°	5415.8	5106.6	4906.7	4651.0	4341.4	4017.0	3712.2	3436.3	3138.4	2888.7	2620.3
35°	6223.7	5900.1	5653.6	5367.7	5013.6	4734.9	4403.7	4058.9	3724.0	3381.8	3075.5
32.5°	7235.3	6920.4	6540.2	6185.4	5849.2	5477.6	5091.6	4685.4	4330.1	3931.2	3541.9
30°	8586.9	8145.2	7653.7	7170.3	6801.4	6337.5	5808.3	5399.1	4972.9	4500.6	4022.7
27.5°	10268.7	9565.5	8951.8	8435.4	7866.9	7301.1	6712.7	6154.3	5648.3	5106.9	4550.5
25°	12127.2	11329.9	10536.0	9858.6	9125.7	8373.3	7672.3	6999.2	6368.0	5733.7	5050.8
22.5°	14022.9	13167.1	12297.3	11381.5	10458.9	9563.4	8715.8	7855.7	7088.6	6338.8	5584.1
20°	15980.5	14952.2	13970.3	12915.8	11804.2	10716.7	9775.5	8759.7	7824.0	6952.7	6113.2
17.5°	18006.4	16730.5	15517.0	14327.8	13108.1	11912.0	10731.5	9610.5	8552.2	7555.6	6625.3
15°	19946.6	18455.7	17058.6	15691.0	14315.0	12930.3	11592.6	10380.7	9269.3	8169.1	7128.7
12.5°	21549.7	20031.7	18519.1	16897.8	15354.9	13870.5	12441.8	11120.6	9909.2	8693.0	7553.5
10°	22898.8	21298.8	19657.8	17978.6	16325.2	14736.1	13193.5	11722.2	10371.1	9118.1	7933.2
7.5°	23914.9	22285.3	20623.6	18895.3	17156.3	15460.3	13805.9	12234.8	10782.3	9477.3	8266.0
5°	24680.0	23034.7	21311.1	19572.2	17839.2	16088.8	14334.1	12677.4	11136.2	9771.7	8549.7
2.5°	25258.1	23571.4	21807.2	20075.2	18368.3	16594.8	14765.2	13037.0	11466.6	10036.6	8735.9
0°	25608.5	23911.9	22128.0	20374.5	18652.5	16935.5	15088.6	13302.6	11746.2	10251.7	8871.1
-2.5°	25776.3	24082.1	22246.9	20440.6	18712.9	17004.0	15265.5	13531.6	11922.6	10455.8	9059.4
-5°	25784.2	24095.7	22289.5	20498.8	18739.9	17037.2	15326.9	13649.8	12041.3	10589.5	9190.3
-7.5°	25631.7	23970.4	22185.8	20406.4	18664.8	16979.1	15285.7	13668.3	12112.3	10639.5	9255.5
-10°	25373.5	23745.4	21983.5	20200.3	18487.4	16801.0	15161.2	13617.6	12095.6	10624.5	9265.0
-12.5°	24823.9	23306.7	21613.0	19863.5	18188.6	16525.5	14955.4	13488.5	11988.1	10546.2	9219.8
-15°	24182.7	22703.4	21064.9	19407.4	17767.2	16177.2	14663.4	13227.3	11769.2	10400.8	9120.9
-17.5°	23322.0	21951.1	20392.3	18853.2	17281.5	15757.9	14297.2	12895.5	11516.4	10191.9	8938.1
-20°	22298.9	20977.4	19651.6	18221.6	16721.0	15264.0	13846.5	12523.7	11214.7	9925.8	8721.5



REPORT NUMBER: P701362 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-7F-VHE-S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	21186.9	19990.0	18743.7	17441.5	16088.4	14708.0	13370.7	12102.2	10854.6	9586.8	8460.8
-25°	20012.9	18928.1	17767.7	16578.3	15356.4	14080.1	12829.3	11619.3	10411.8	9225.2	8162.5
-27.5°	18794.3	17796.0	16792.9	15689.5	14553.0	13401.0	12236.5	11081.8	9924.0	8857.1	7850.8
-30°	17543.6	16656.7	15753.1	14798.6	13733.2	12653.6	11588.6	10518.3	9457.1	8451.1	7497.9
-32.5°	16268.7	15495.3	14680.1	13843.0	12879.7	11878.3	10905.3	9944.6	8961.0	8029.9	7150.5
-35°	15004.3	14337.9	13612.7	12832.5	11999.6	11100.3	10198.9	9324.4	8459.2	7584.3	6775.4
-37.5°	13791.7	13209.7	12544.6	11823.6	11096.4	10316.0	9504.1	8707.4	7912.8	7139.3	6381.3
-40°	12588.8	12060.2	11497.2	10853.1	10205.8	9541.3	8822.6	8084.8	7372.6	6674.7	5970.1
-42.5°	11425.5	10965.3	10477.0	9920.1	9337.6	8764.1	8145.2	7478.8	6821.2	6187.4	5573.3
-45°	10314.5	9914.5	9479.6	9017.2	8505.1	7994.6	7465.3	6867.4	6268.8	5708.7	5155.8
-47.5°	9251.7	8907.3	8531.6	8147.9	7704.1	7240.4	6770.9	6252.3	5740.6	5227.1	4748.2
-50°	8231.9	7940.4	7627.5	7304.9	6938.1	6522.9	6107.8	5683.1	5221.9	4777.3	4339.4
-52.5°	7258.9	7035.0	6790.7	6518.0	6217.5	5860.6	5485.3	5125.9	4730.6	4339.1	3950.0
-55°	6428.5	6225.3	6021.5	5793.8	5545.6	5239.6	4918.5	4596.8	4272.0	3913.8	3576.5
-57.5°	5669.5	5480.8	5310.5	5120.6	4911.7	4657.1	4384.9	4102.1	3823.8	3514.9	3208.0
-60°	4974.5	4795.0	4651.6	4493.7	4321.8	4110.7	3878.9	3635.5	3380.8	3127.9	2868.2
-62.5°	4315.7	4158.8	4038.0	3911.9	3773.7	3609.5	3401.7	3195.5	2980.2	2755.8	2544.2
-65°	3719.8	3586.4	3477.6	3378.2	3268.7	3146.7	2964.7	2785.0	2606.7	2423.0	2234.0
-67.5°	3185.1	3071.9	2978.7	2893.6	2806.6	2710.4	2566.4	2409.7	2258.4	2108.3	1948.8
-70°	2702.0	2609.2	2529.4	2458.3	2384.3	2306.3	2195.3	2067.3	1936.4	1808.5	1675.1
-72.5°	2263.3	2187.6	2119.2	2061.8	1998.2	1933.7	1849.1	1744.0	1635.5	1523.9	1412.4
-75°	1856.4	1795.1	1737.5	1692.7	1643.9	1591.1	1526.2	1440.6	1353.9	1266.3	1177.2
-77.5°	1478.3	1431.2	1385.5	1352.5	1316.1	1276.4	1226.7	1158.8	1095.0	1029.9	963.4
-80°	1140.0	1105.4	1071.3	1050.3	1027.5	1003.1	973.1	921.1	867.9	816.4	767.1
-82.5°	851.4	827.7	804.0	793.0	780.3	765.7	747.5	709.8	671.5	632.8	593.9
-85°	628.2	611.8	595.3	588.8	581.5	573.3	563.5	538.8	513.6	488.1	462.1
-87.5°	481.3	469.1	456.9	452.2	447.3	442.2	436.9	420.3	403.7	387.0	370.3
-90°	3.6	3.8	4.1	4.4	4.6	4.9	5.1	5.4	5.6	5.9	6.1





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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	308.4	293.6	278.9	264.1	249.1	234.2	219.2	204.2	187.2	170.2	153.1
87.5°	11.2	11.8	12.4	13.0	12.7	12.4	12.2	11.8	12.3	12.6	12.8
85°	23.6	22.3	21.2	20.4	19.3	17.8	17.2	16.6	17.3	17.7	17.8
82.5°	42.8	39.1	35.6	32.7	31.9	30.5	28.6	26.3	24.9	23.2	22.8
80°	57.4	52.6	47.9	44.2	43.7	43.3	41.3	38.8	36.7	34.2	31.2
77.5°	72.8	66.1	59.5	54.6	53.1	51.8	50.6	50.1	48.6	45.2	41.2
75°	88.9	81.1	73.3	67.9	64.9	60.0	57.9	58.2	59.9	56.4	51.2
72.5°	105.4	97.2	88.0	82.8	81.2	76.9	69.8	67.2	71.6	70.0	62.5
70°	120.3	113.5	104.6	102.3	100.3	94.6	88.1	86.3	84.4	84.3	77.6
67.5°	133.9	127.8	120.0	123.2	123.0	117.8	107.9	108.8	108.1	99.4	93.2
65°	138.1	138.5	136.8	145.4	147.3	142.7	133.2	134.7	132.9	124.3	109.3
62.5°	142.5	146.4	153.1	168.9	173.7	170.1	161.5	167.1	160.3	149.9	131.7
60°	147.4	154.7	173.4	193.2	201.9	199.5	197.6	201.5	194.9	176.4	156.9
57.5°	163.5	166.8	200.2	223.0	232.7	231.6	238.1	241.8	231.1	209.9	183.1
55°	190.0	202.7	240.0	261.0	269.8	267.0	284.8	286.9	270.5	246.0	211.1
52.5°	242.1	271.1	303.3	314.7	316.1	316.6	340.9	335.4	317.4	283.3	246.3
50°	358.9	384.4	401.4	394.7	373.6	391.7	403.8	396.3	366.7	324.0	283.2
47.5°	605.2	594.7	550.8	502.9	464.5	480.3	487.4	463.6	418.5	371.6	320.9
45°	984.7	897.0	779.0	676.4	595.0	604.0	585.9	536.3	485.4	423.0	359.3
42.5°	1397.4	1265.1	1114.9	872.9	796.0	747.9	695.2	634.1	556.4	476.1	402.7
40°	1881.8	1654.2	1480.3	1219.5	1010.3	905.2	835.8	742.8	630.7	534.0	450.0
37.5°	2339.8	2061.1	1843.2	1546.4	1246.6	1104.3	988.3	859.1	710.2	598.6	497.9
35°	2763.1	2456.3	2152.9	1841.4	1528.2	1304.0	1149.5	988.9	802.7	662.7	546.3
32.5°	3177.1	2820.6	2468.1	2119.5	1786.9	1504.0	1324.9	1103.3	891.5	726.0	595.1
30°	3602.9	3186.9	2782.1	2388.6	2027.9	1726.8	1483.2	1210.4	976.4	788.4	645.0
27.5°	4030.3	3548.4	3096.9	2665.8	2267.1	1930.8	1604.2	1310.3	1057.3	853.7	697.0
25°	4468.5	3929.4	3421.8	2942.9	2496.5	2087.9	1720.2	1403.4	1139.8	922.4	747.6
22.5°	4913.9	4315.8	3738.1	3212.9	2687.0	2246.1	1841.8	1501.1	1219.4	987.5	796.7
20°	5333.1	4696.4	4034.0	3429.6	2875.0	2409.8	1971.1	1593.4	1292.7	1048.7	844.0
17.5°	5737.4	5038.8	4296.8	3641.8	3057.3	2560.2	2097.1	1679.8	1359.9	1106.0	889.4
15°	6155.7	5338.8	4551.1	3836.9	3223.5	2697.4	2218.6	1759.9	1420.9	1159.3	927.6
12.5°	6530.2	5630.3	4788.5	4014.1	3373.4	2821.2	2334.1	1833.3	1475.8	1206.3	957.4
10°	6863.5	5908.2	5006.3	4172.3	3506.5	2931.7	2442.0	1908.2	1540.4	1248.5	985.0
7.5°	7155.2	6167.3	5201.4	4310.9	3623.9	3023.4	2523.8	1993.5	1604.3	1287.6	1010.2
5°	7395.2	6381.6	5389.0	4470.8	3732.5	3098.0	2586.5	2071.5	1664.6	1323.1	1032.7
2.5°	7551.7	6527.6	5557.0	4619.3	3825.6	3161.0	2634.1	2141.7	1720.1	1354.7	1051.9
0°	7667.2	6635.0	5693.3	4746.4	3901.2	3211.4	2668.8	2203.6	1769.7	1381.7	1067.7
-2.5°	7816.1	6740.2	5778.3	4847.1	4007.0	3300.7	2727.8	2242.7	1804.5	1415.4	1093.9
-5°	7918.6	6809.1	5833.7	4922.8	4092.4	3374.1	2775.0	2272.9	1832.4	1443.9	1116.1
-7.5°	7990.3	6864.7	5870.7	4973.1	4156.6	3429.7	2809.3	2294.0	1853.4	1466.8	1134.0
-10°	8017.8	6894.7	5890.7	4988.0	4176.8	3456.0	2829.5	2306.0	1867.6	1484.1	1147.4
-12.5°	7996.0	6880.4	5875.4	4975.9	4170.6	3455.4	2837.1	2315.4	1875.7	1495.5	1156.0
-15°	7924.5	6820.1	5823.6	4936.4	4141.6	3437.7	2832.1	2317.7	1879.0	1499.3	1159.8
-17.5°	7796.9	6712.6	5734.7	4869.3	4089.4	3402.8	2814.4	2309.1	1874.0	1495.0	1157.2
-20°	7616.8	6571.4	5613.3	4774.6	4014.0	3350.6	2783.9	2289.4	1860.7	1484.1	1148.6



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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°	7401.6	6410.9	5496.7	4668.0	3925.8	3281.4	2740.9	2258.4	1838.7	1466.4	1135.5
-25°	7149.7	6222.9	5349.4	4551.8	3833.6	3220.2	2691.4	2215.9	1808.0	1441.8	1117.9
-27.5°	6900.0	6013.9	5168.7	4412.5	3735.3	3145.8	2635.0	2174.3	1770.9	1410.3	1095.6
-30°	6638.5	5786.4	4985.6	4260.0	3617.6	3061.4	2565.3	2122.8	1729.9	1377.2	1068.9
-32.5°	6333.3	5523.1	4786.3	4112.0	3500.2	2959.3	2482.6	2061.0	1680.5	1341.8	1043.3
-35°	5998.1	5258.2	4567.7	3943.4	3369.4	2855.7	2394.1	1989.0	1622.9	1301.2	1015.6
-37.5°	5641.8	4976.3	4362.9	3764.9	3216.6	2737.2	2305.0	1914.2	1557.0	1255.4	984.2
-40°	5310.0	4686.5	4117.3	3575.8	3064.6	2604.1	2204.8	1835.4	1495.2	1204.7	949.0
-42.5°	4955.5	4396.1	3866.4	3359.6	2903.5	2481.4	2095.7	1749.3	1434.0	1156.6	910.1
-45°	4615.9	4093.7	3603.9	3156.0	2732.0	2347.2	1992.1	1658.1	1365.5	1107.8	870.4
-47.5°	4262.4	3792.8	3349.4	2937.9	2570.4	2208.0	1880.8	1572.2	1289.9	1055.0	830.6
-50°	3920.4	3494.5	3096.6	2731.1	2389.5	2077.3	1764.9	1477.6	1222.0	995.8	786.9
-52.5°	3575.7	3204.6	2851.2	2520.6	2221.6	1938.8	1648.6	1376.7	1148.2	936.0	739.5
-55°	3239.7	2925.5	2608.9	2319.0	2049.0	1792.3	1523.1	1285.9	1068.7	873.7	689.4
-57.5°	2926.2	2647.1	2377.7	2118.2	1871.5	1633.9	1404.3	1188.8	990.0	807.1	644.8
-60°	2616.7	2385.5	2146.8	1914.6	1689.0	1481.5	1287.3	1088.8	908.2	739.2	596.0
-62.5°	2332.3	2123.6	1918.0	1706.6	1515.2	1337.8	1165.8	989.9	822.1	677.6	544.0
-65°	2055.1	1871.6	1685.8	1515.9	1350.0	1192.7	1046.1	886.3	743.6	613.0	493.3
-67.5°	1784.4	1631.8	1480.1	1328.2	1189.9	1055.3	921.0	790.4	664.8	545.5	449.8
-70°	1539.3	1403.8	1279.3	1158.4	1036.5	917.3	809.1	696.1	583.0	491.5	404.6
-72.5°	1305.8	1200.0	1095.2	990.1	892.4	795.0	698.0	603.1	517.8	436.0	357.8
-75°	1086.6	1004.7	924.6	842.5	756.3	671.7	598.9	526.4	451.1	378.9	318.4
-77.5°	895.9	828.5	761.3	698.9	633.5	570.0	508.7	447.8	386.8	332.6	281.0
-80°	718.3	669.4	620.5	570.9	517.9	466.8	423.7	380.4	332.3	286.4	242.7
-82.5°	555.8	522.5	490.3	457.3	421.4	385.9	350.8	315.7	276.7	239.3	210.6
-85°	436.9	411.3	385.3	359.0	331.4	304.1	284.0	263.6	239.4	215.4	191.7
-87.5°	354.0	337.5	320.9	304.1	286.8	269.3	251.7	234.1	213.5	193.0	172.6
-90°	6.4	6.6	6.9	7.1	7.1	7.1	7.1	7.1	7.4	7.6	7.9



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	136.1	112.8	89.4	66.1	42.7	24.9	7.1
87.5°	12.8	12.4	11.9	11.2	10.3	9.0	7.1
85°	17.6	16.8	15.7	14.3	12.5	10.4	7.1
82.5°	22.3	21.1	19.5	17.3	14.7	11.8	7.1
80°	27.6	25.5	23.3	20.4	17.0	13.3	7.1
77.5°	36.8	31.6	27.1	23.5	19.2	14.7	7.1
75°	46.2	41.0	31.8	26.5	21.4	16.1	7.1
72.5°	55.7	50.5	40.6	29.6	23.7	17.4	7.1
70°	66.4	60.2	49.5	33.5	26.0	18.8	7.1
67.5°	82.6	70.0	58.4	41.0	28.3	20.2	7.1
65°	99.3	82.9	67.4	48.4	30.6	21.6	7.1
62.5°	116.4	98.8	76.5	55.9	32.9	22.9	7.1
60°	134.1	115.0	85.6	63.3	35.2	24.3	7.1
57.5°	158.3	131.4	99.5	70.7	40.6	25.6	7.1
55°	183.9	148.1	113.7	78.1	46.0	26.9	7.1
52.5°	209.9	166.0	127.9	85.5	51.3	28.2	7.1
50°	236.3	188.8	142.2	92.8	56.5	29.4	7.1
47.5°	264.1	211.7	156.5	100.9	61.6	30.7	7.1
45°	297.4	234.7	170.7	111.6	66.6	31.9	7.1
42.5°	330.9	257.7	184.9	122.3	71.4	33.1	7.1
40°	364.5	280.8	201.1	132.7	76.2	34.3	7.1
37.5°	398.3	303.8	219.0	142.9	80.8	35.4	7.1
35°	432.1	329.5	236.6	152.8	85.2	36.5	7.1
32.5°	467.6	356.3	253.8	162.3	89.5	37.5	7.1
30°	507.1	382.6	270.7	171.5	93.6	38.6	7.1
27.5°	546.2	408.4	286.0	180.2	97.6	39.5	7.1
25°	584.6	433.6	300.5	188.5	101.3	40.5	7.1
22.5°	622.2	456.9	314.3	196.4	104.9	41.4	7.1
20°	658.8	476.2	327.2	203.7	108.2	42.2	7.1
17.5°	687.5	494.0	339.3	210.6	111.3	43.0	7.1
15°	709.8	510.4	350.5	217.0	114.2	43.7	7.1
12.5°	729.6	525.2	360.7	222.8	116.8	44.4	7.1
10°	746.7	538.5	369.9	228.0	119.2	45.0	7.1
7.5°	761.2	550.1	378.1	232.6	121.3	45.5	7.1
5°	773.2	560.1	385.3	236.7	123.2	46.0	7.1
2.5°	782.6	568.4	391.3	240.1	124.7	46.4	7.1
0°	789.4	575.0	396.2	242.8	126.0	46.7	7.1
-2.5°	808.4	585.7	402.7	246.5	127.9	47.6	7.1
-5°	824.6	594.6	407.9	249.5	129.6	48.5	7.1
-7.5°	837.8	601.6	411.9	251.7	130.9	49.2	7.1
-10°	847.8	606.5	414.5	253.3	131.9	49.9	7.1
-12.5°	854.2	609.4	415.8	254.1	132.5	50.5	7.1
-15°	857.0	610.1	415.7	254.1	132.9	51.0	7.1
-17.5°	855.8	608.5	414.1	253.3	132.9	51.4	7.1
-20°	851.1	604.6	411.0	251.8	132.6	51.7	7.1



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	843.6	598.4	406.5	249.4	132.0	51.9	7.1
-25°	832.8	592.2	400.4	246.3	131.0	52.1	7.1
-27.5°	818.7	584.6	392.8	242.3	129.7	52.1	7.1
-30°	801.4	574.5	384.0	237.5	128.1	52.1	7.1
-32.5°	780.7	561.8	375.9	232.0	126.1	51.9	7.1
-35°	761.5	546.5	366.2	225.6	123.8	51.7	7.1
-37.5°	740.8	530.2	354.9	218.4	121.2	51.3	7.1
-40°	716.9	514.4	342.0	210.5	118.3	50.9	7.1
-42.5°	689.6	496.5	330.0	202.2	115.1	50.3	7.1
-45°	659.1	476.4	319.1	194.1	111.6	49.7	7.1
-47.5°	625.5	454.2	307.1	185.1	107.8	49.0	7.1
-50°	594.9	430.0	293.7	178.8	103.7	48.2	7.1
-52.5°	562.7	403.8	279.2	172.9	99.3	47.3	7.1
-55°	528.1	382.2	263.5	166.3	94.6	46.3	7.1
-57.5°	491.0	360.3	246.6	159.2	89.7	45.2	7.1
-60°	452.8	336.9	229.1	151.4	84.5	44.1	7.1
-62.5°	421.6	312.1	216.9	143.1	81.9	42.8	7.1
-65°	388.7	285.9	203.9	134.2	79.0	41.5	7.1
-67.5°	354.1	262.8	190.0	124.8	76.0	40.1	7.1
-70°	318.0	242.8	175.4	114.9	72.8	38.7	7.1
-72.5°	289.3	221.8	160.2	108.7	69.5	37.1	7.1
-75°	260.8	199.9	144.3	103.3	66.0	35.6	7.1
-77.5°	231.1	177.3	134.6	97.6	62.4	33.9	7.1
-80°	200.6	161.8	126.1	91.7	58.7	32.2	7.1
-82.5°	183.6	150.0	117.3	85.5	54.8	30.4	7.1
-85°	168.1	137.9	108.2	79.2	50.9	28.6	7.1
-87.5°	152.3	125.4	98.9	72.7	46.8	26.8	7.1
-90°	8.1	8.1	8.1	8.1	8.1	7.6	7.1

(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

