

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: P731353 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 11/16/2023

Test Information

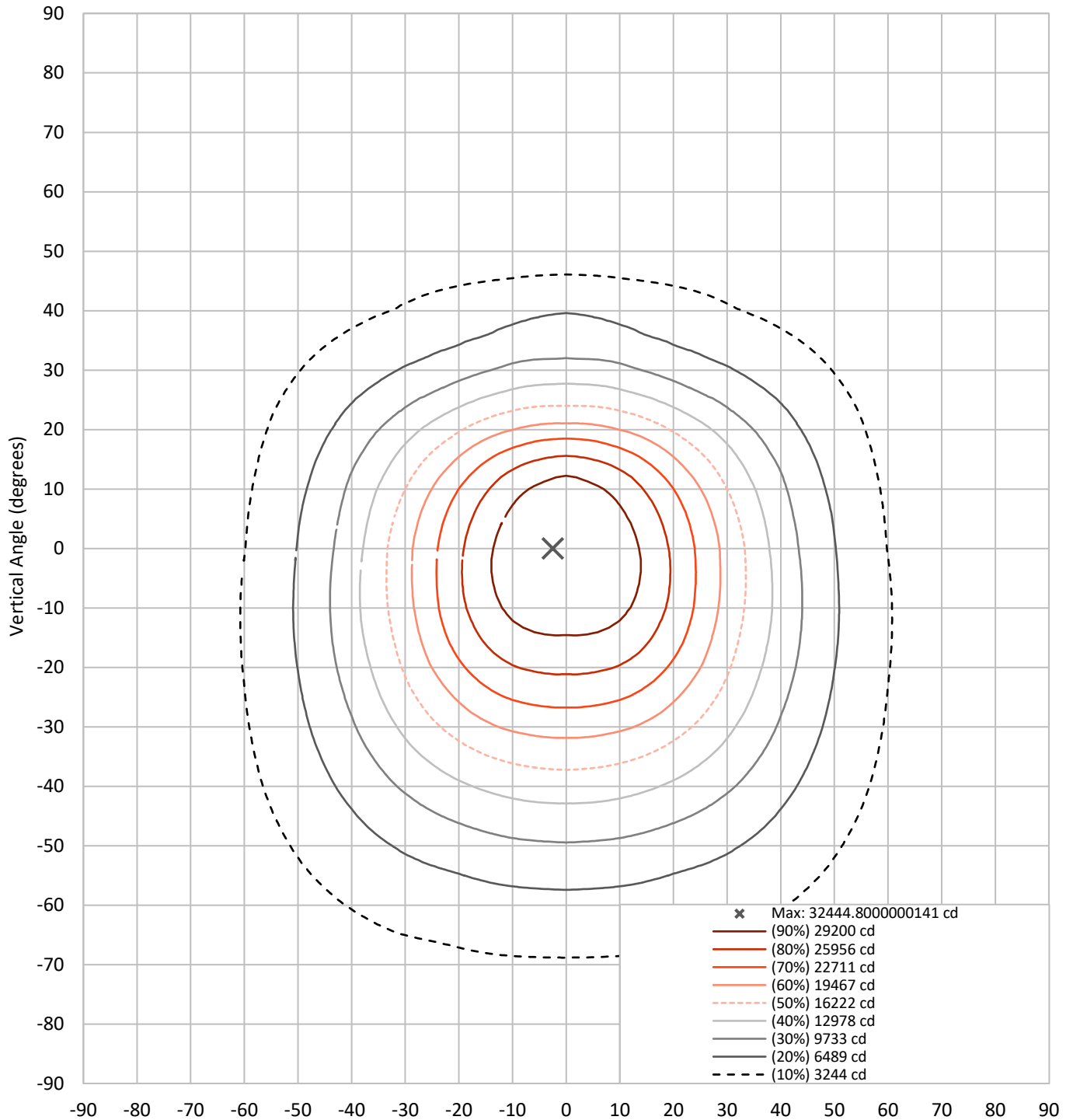
Test Method: LM-79-08
Report Number: P731353 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-6)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-40-80-7F-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 7F BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	43163.5 lumens	Max Intensity:	32444.8 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	124.8 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:	23435.7 lumens	Field Lumens:	40448.1 lumens
Beam Efficiency:	54.3%	Field Efficiency:	93.7%
Input Watts (W):	345.8		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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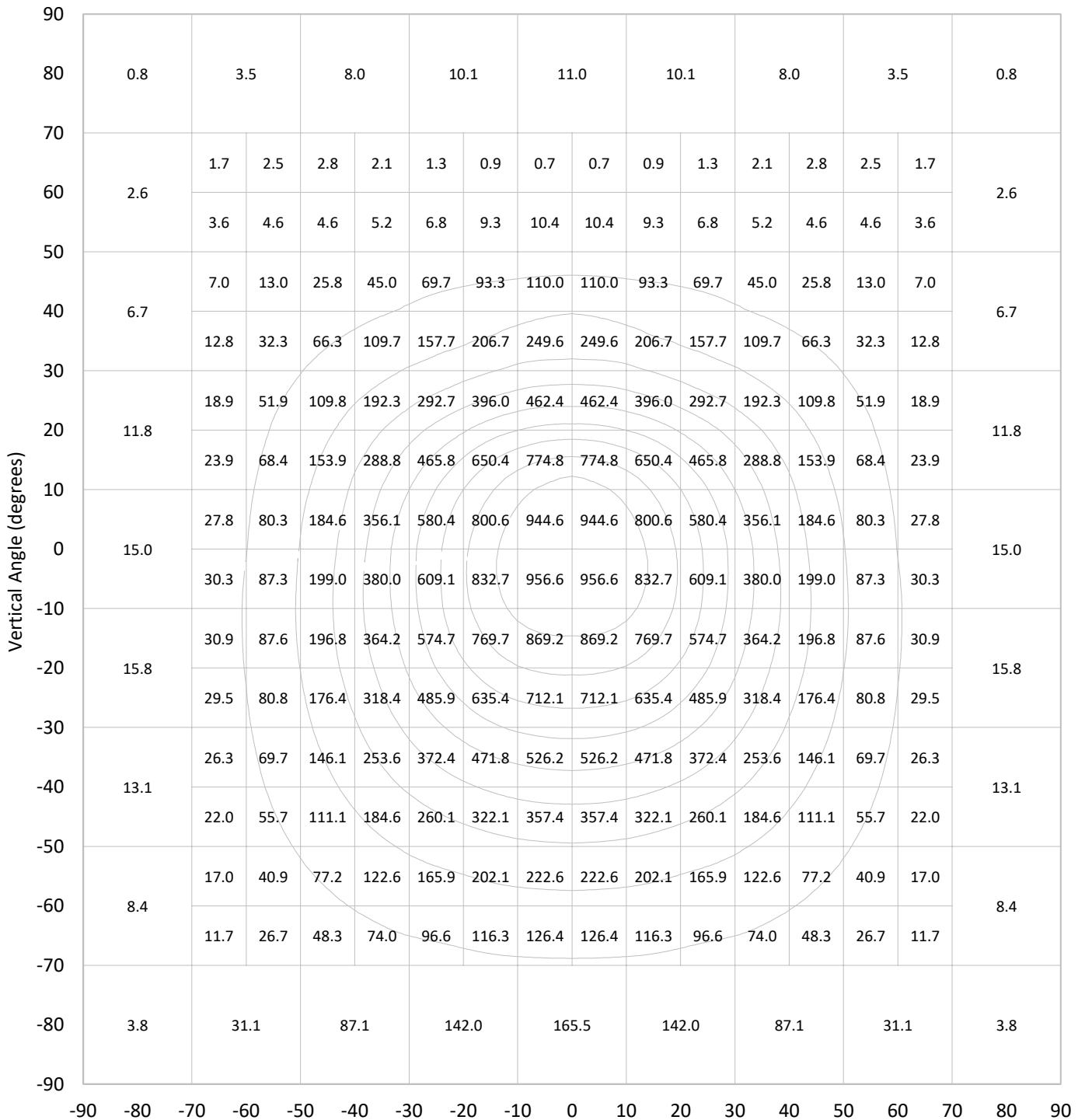
Iso-Candela Plot





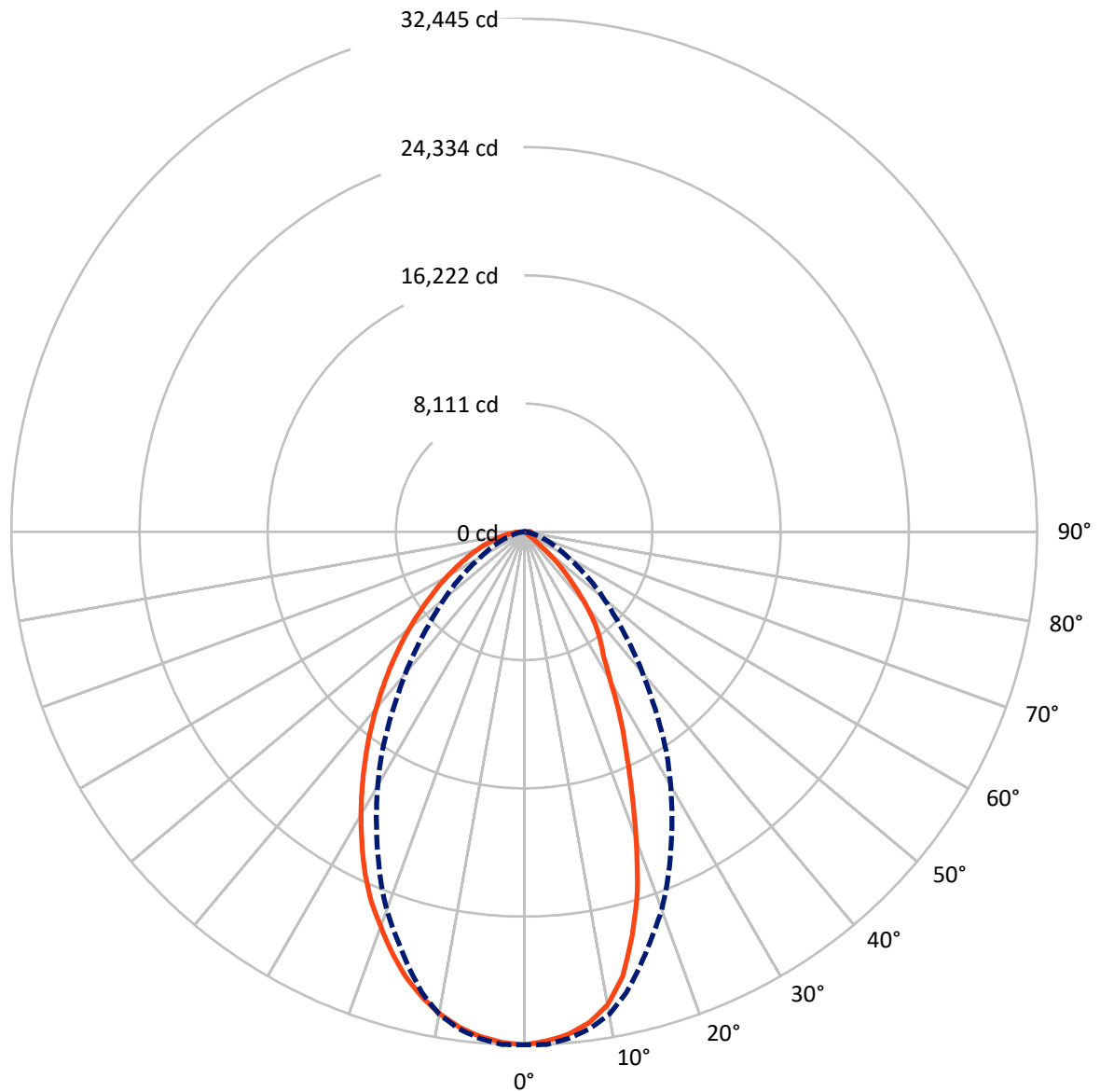
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Lumen Table



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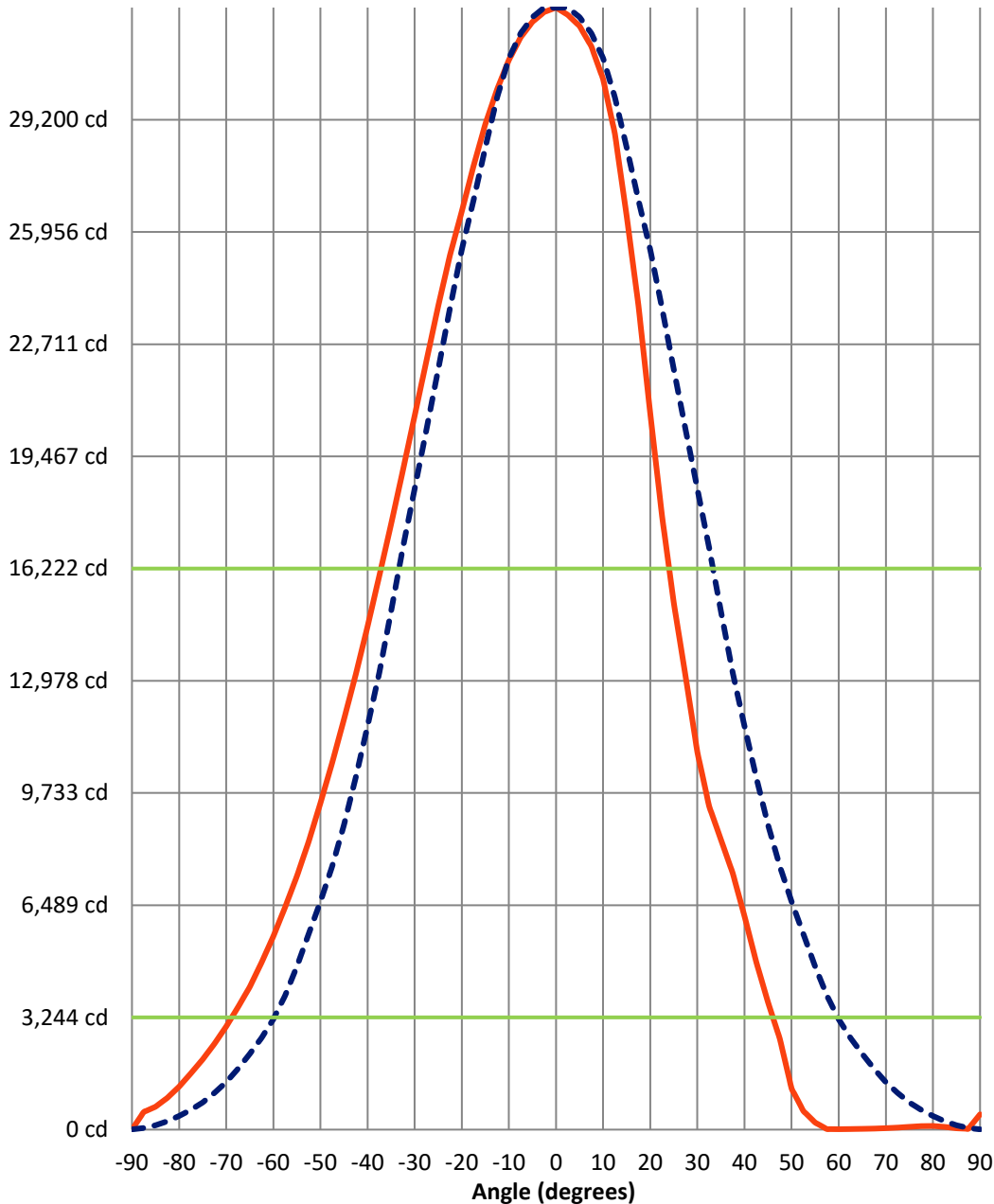
Luminous Intensity Polar Plot



— Vertical Distribution Through -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: 23435.7
Efficiency: 54.3%

Field:
H Angle: 119.6°
V Angle: 114.9°
Lumens: 40448.1
Efficiency: 93.7%

Spill:
Lumens: 2715.4
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	24.8	42.4	65.6	88.8	112.0	135.2	152.1	169.1	186.0	202.9
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	14.2	15.6	16.7	17.5	17.7	17.6	17.2	16.5
82.5°	7.1	11.8	14.7	17.3	19.4	21.0	22.2	22.7	23.1	24.8	26.1
80°	7.1	13.2	16.9	20.3	23.1	25.3	27.4	31.0	34.0	36.5	38.5
77.5°	7.1	14.6	19.1	23.3	26.9	31.4	36.5	40.9	44.9	48.3	49.8
75°	7.1	16.0	21.3	26.4	31.6	40.7	45.8	50.9	56.1	59.5	57.8
72.5°	7.1	17.4	23.6	29.4	40.3	50.2	55.4	62.1	69.6	71.1	66.7
70°	7.1	18.7	25.8	33.3	49.1	59.8	65.9	77.1	83.7	83.8	85.7
67.5°	7.1	20.1	28.1	40.7	58.0	69.5	82.1	92.6	98.8	107.4	108.1
65°	7.1	21.5	30.4	48.1	66.9	82.3	98.6	108.6	123.5	132.0	133.8
62.5°	7.1	22.8	32.7	55.5	75.9	98.2	115.6	130.8	149.0	159.2	166.0
60°	7.1	24.1	35.0	62.9	85.0	114.3	133.2	155.9	175.3	193.6	200.2
57.5°	7.1	25.4	40.4	70.3	98.8	130.6	157.3	181.9	208.5	229.6	240.3
55°	7.1	26.7	45.7	77.6	112.9	147.2	182.7	209.7	244.4	268.8	285.0
52.5°	7.1	28.0	51.0	84.9	127.1	165.0	208.5	244.8	281.4	315.3	333.2
50°	7.1	29.3	56.1	92.1	141.3	187.6	234.8	281.4	321.9	364.2	393.7
47.5°	7.1	30.5	61.2	100.2	155.5	210.4	262.4	318.8	369.1	415.7	460.5
45°	7.1	31.7	66.1	110.9	169.6	233.2	295.5	356.9	420.2	482.2	532.8
42.5°	7.1	32.9	70.9	121.4	183.8	256.1	328.7	400.1	473.0	552.7	629.9
40°	7.1	34.1	75.6	131.8	199.8	279.0	362.2	447.1	530.5	626.5	737.9
37.5°	7.1	35.2	80.2	142.0	217.6	301.8	395.7	494.6	594.7	705.4	853.5
35°	7.1	36.3	84.6	151.8	235.1	327.4	429.3	542.7	658.3	797.4	982.5
32.5°	7.1	37.3	88.9	161.3	252.2	354.0	464.6	591.2	721.2	885.7	1096.0
30°	7.1	38.3	93.0	170.4	269.0	380.2	503.8	640.7	783.2	970.0	1202.5
27.5°	7.1	39.3	96.9	179.0	284.2	405.8	542.6	692.4	848.0	1050.3	1301.7
25°	7.1	40.2	100.6	187.3	298.6	430.8	580.8	742.7	916.3	1132.3	1394.2
22.5°	7.1	41.1	104.1	195.1	312.3	453.9	618.2	791.4	980.9	1211.4	1491.3
20°	7.1	41.9	107.4	202.4	325.1	473.1	654.5	838.4	1041.7	1284.3	1582.9
17.5°	7.1	42.7	110.5	209.2	337.1	490.8	683.0	883.5	1098.7	1351.0	1668.7
15°	7.1	43.4	113.4	215.5	348.2	507.1	705.2	921.5	1151.6	1411.6	1748.3
12.5°	7.1	44.1	116.0	221.3	358.4	521.8	724.8	951.0	1198.3	1466.2	1821.3
10°	7.1	44.7	118.4	226.5	367.5	534.9	741.8	978.5	1240.2	1530.3	1895.6
7.5°	7.1	45.2	120.5	231.1	375.7	546.5	756.2	1003.6	1279.1	1593.8	1980.3
5°	7.1	45.7	122.3	235.1	382.8	556.4	768.1	1025.9	1314.4	1653.7	2057.8
2.5°	7.1	46.1	123.8	238.5	388.8	564.6	777.4	1045.0	1345.8	1708.8	2127.5
0°	7.1	46.4	125.1	241.2	393.6	571.2	784.2	1060.7	1372.6	1758.1	2189.0
-2.5°	7.1	47.3	127.0	244.9	400.0	581.9	803.0	1086.8	1406.1	1792.7	2227.9
-5°	7.1	48.1	128.6	247.8	405.2	590.7	819.1	1108.8	1434.3	1820.4	2257.9
-7.5°	7.1	48.9	130.0	250.1	409.2	597.6	832.3	1126.5	1457.2	1841.2	2278.9
-10°	7.1	49.6	130.9	251.6	411.8	602.5	842.1	1139.8	1474.3	1855.4	2290.8
-12.5°	7.1	50.1	131.6	252.4	413.0	605.4	848.5	1148.4	1485.6	1863.4	2300.2
-15°	7.1	50.6	132.0	252.4	412.9	606.0	851.3	1152.2	1489.5	1866.6	2302.4
-17.5°	7.1	51.1	132.0	251.6	411.3	604.5	850.1	1149.5	1485.2	1861.7	2293.9
-20°	7.1	51.4	131.7	250.1	408.3	600.6	845.4	1141.0	1474.3	1848.5	2274.3



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

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	7.1	51.6	131.1	247.8	403.8	594.4	838.0	1128.0	1456.7	1826.6	2243.5
-25°	7.1	51.7	130.1	244.6	397.8	588.3	827.3	1110.4	1432.3	1796.1	2201.4
-27.5°	7.1	51.8	128.8	240.7	390.2	580.7	813.3	1088.4	1401.0	1759.2	2160.0
-30°	7.1	51.7	127.2	236.0	381.4	570.7	796.0	1061.8	1368.1	1718.5	2108.9
-32.5°	7.1	51.6	125.3	230.4	373.4	558.0	775.5	1036.4	1332.9	1669.5	2047.5
-35°	7.1	51.3	123.0	224.1	363.8	542.9	756.4	1008.9	1292.5	1612.2	1975.9
-37.5°	7.1	51.0	120.4	217.0	352.5	526.6	735.9	977.6	1247.1	1546.7	1901.6
-40°	7.1	50.5	117.6	209.1	339.7	511.0	712.1	942.6	1196.7	1485.3	1823.3
-42.5°	7.1	50.0	114.4	200.9	327.8	493.2	685.0	904.1	1148.9	1424.5	1737.7
-45°	7.1	49.4	110.9	192.8	317.1	473.2	654.8	864.6	1100.5	1356.5	1647.1
-47.5°	7.1	48.7	107.1	183.9	305.1	451.2	621.3	825.1	1048.0	1281.3	1561.7
-50°	7.1	47.9	103.0	177.6	291.8	427.2	590.9	781.7	989.2	1213.9	1467.8
-52.5°	7.1	47.0	98.6	171.8	277.4	401.1	559.0	734.5	929.8	1140.6	1367.6
-55°	7.1	46.0	94.0	165.3	261.8	379.7	524.6	684.8	867.8	1061.6	1277.4
-57.5°	7.1	44.9	89.1	158.1	245.1	358.0	487.8	640.5	801.8	983.4	1180.9
-60°	7.1	43.8	84.0	150.4	227.6	334.7	449.9	592.1	734.3	902.2	1081.5
-62.5°	7.1	42.6	81.3	142.1	215.5	310.1	418.9	540.5	673.1	816.6	983.4
-65°	7.1	41.3	78.5	133.3	202.5	284.1	386.2	490.1	609.0	738.7	880.4
-67.5°	7.1	39.9	75.5	123.9	188.8	261.1	351.9	446.9	542.0	660.5	785.2
-70°	7.1	38.4	72.3	114.1	174.3	241.2	316.0	401.9	488.3	579.2	691.5
-72.5°	7.1	36.9	69.0	108.0	159.1	220.4	287.5	355.5	433.1	514.4	599.1
-75°	7.1	35.3	65.6	102.6	143.3	198.6	259.1	316.4	376.4	448.2	522.9
-77.5°	7.1	33.7	62.0	96.9	133.7	176.1	229.6	279.2	330.4	384.3	444.8
-80°	7.1	32.0	58.3	91.1	125.3	160.7	199.3	241.1	284.5	330.1	377.8
-82.5°	7.1	30.3	54.4	85.0	116.5	149.0	182.4	209.2	237.8	274.9	313.6
-85°	7.1	28.5	50.5	78.7	107.5	137.0	167.0	190.5	214.0	237.9	261.9
-87.5°	7.1	26.6	46.5	72.2	98.3	124.6	151.3	171.4	191.7	212.1	232.6
-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-08-0320N-40-80-7F-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	217.8	232.7	247.5	262.4	277.0	291.7	306.3	320.9	334.5	348.2	361.8
87.5°	12.1	12.4	12.7	12.9	12.4	11.8	11.1	10.4	11.2	12.1	13.1
85°	17.1	17.7	19.2	20.3	21.1	22.1	23.5	25.0	28.0	30.9	33.8
82.5°	28.4	30.3	31.7	32.6	35.4	38.8	42.5	46.0	49.3	52.5	55.5
80°	41.1	43.0	43.4	43.9	47.6	52.2	57.0	62.0	66.1	69.8	73.3
77.5°	50.3	51.4	52.8	54.3	59.0	65.7	72.3	79.0	83.9	87.9	91.4
75°	57.6	59.6	64.4	67.4	72.8	80.5	88.3	95.8	100.7	103.5	105.3
72.5°	69.4	76.3	80.6	82.2	87.4	96.5	104.8	112.1	115.9	115.4	113.0
70°	87.6	94.0	99.6	101.6	103.9	112.8	119.5	124.7	127.0	122.4	113.4
67.5°	107.2	117.1	122.2	122.5	119.3	127.0	133.0	132.2	128.2	118.2	106.3
65°	132.3	141.8	146.3	144.4	135.8	137.6	137.2	133.7	124.4	110.7	96.4
62.5°	160.5	169.0	172.5	167.8	152.1	145.4	141.6	132.3	118.2	104.8	91.3
60°	196.4	198.2	200.5	192.0	172.3	153.7	146.4	137.2	122.1	103.7	92.6
57.5°	236.6	230.1	231.2	221.6	198.9	165.7	162.4	150.7	138.0	113.7	102.3
55°	282.9	265.3	268.1	259.3	238.5	201.3	188.7	187.1	169.3	150.1	129.1
52.5°	338.6	314.6	314.0	312.6	301.3	269.3	240.5	260.5	271.8	250.5	264.0
50°	401.2	389.2	371.1	392.1	398.8	381.8	356.4	412.5	480.1	511.0	510.2
47.5°	484.2	477.2	461.5	499.6	547.1	590.7	601.2	702.5	804.8	917.8	931.3
45°	582.0	600.0	591.1	672.0	773.8	891.1	978.2	1076.4	1309.2	1444.3	1644.3
42.5°	690.6	743.0	790.8	867.2	1107.5	1256.8	1388.1	1634.7	1866.3	2062.1	2268.8
40°	830.3	899.3	1003.7	1211.5	1470.6	1643.3	1869.4	2150.4	2384.9	2606.0	2817.6
37.5°	981.8	1097.1	1238.5	1536.2	1831.1	2047.5	2324.4	2603.1	2869.7	3117.8	3413.6
35°	1141.9	1295.5	1518.1	1829.3	2138.7	2440.1	2744.9	3055.3	3359.5	3699.4	4032.1
32.5°	1316.2	1494.1	1775.2	2105.5	2451.9	2802.1	3156.2	3518.5	3905.3	4301.5	4654.6
30°	1473.5	1715.5	2014.5	2372.9	2763.7	3165.9	3579.1	3996.1	4471.0	4940.1	5363.6
27.5°	1593.7	1918.1	2252.2	2648.3	3076.5	3525.0	4003.7	4520.5	5073.3	5611.0	6113.7
25°	1708.9	2074.1	2480.0	2923.5	3399.2	3903.5	4439.0	5017.6	5695.9	6326.0	6953.0
22.5°	1829.7	2231.2	2669.3	3191.7	3713.4	4287.4	4881.5	5547.3	6297.0	7041.8	7803.9
20°	1958.1	2393.9	2856.1	3407.0	4007.3	4665.5	5298.0	6072.9	6906.8	7772.4	8702.0
17.5°	2083.3	2543.3	3037.1	3617.8	4268.4	5005.6	5699.5	6581.7	7505.8	8495.8	9547.2
15°	2204.0	2679.6	3202.3	3811.6	4521.1	5303.7	6115.2	7081.7	8115.2	9208.3	10312.3
12.5°	2318.6	2802.5	3351.1	3987.6	4756.9	5593.2	6487.2	7503.7	8635.7	9843.9	11047.3
10°	2425.9	2912.3	3483.4	4144.8	4973.3	5869.3	6818.3	7880.9	9058.0	10302.7	11645.0
7.5°	2507.2	3003.5	3600.0	4282.4	5167.2	6126.7	7108.1	8211.4	9414.8	10711.2	12154.2
5°	2569.4	3077.6	3707.9	4441.3	5353.5	6339.6	7346.4	8493.3	9707.3	11062.7	12593.7
2.5°	2616.8	3140.2	3800.4	4588.9	5520.3	6484.6	7501.9	8678.3	9970.4	11390.9	12951.0
0°	2651.3	3190.2	3875.5	4715.1	5655.7	6591.3	7616.7	8812.6	10184.2	11668.7	13214.9
-2.5°	2709.9	3278.9	3980.5	4815.1	5740.2	6695.8	7764.6	8999.6	10386.9	11843.9	13442.4
-5°	2756.8	3351.9	4065.4	4890.4	5795.2	6764.3	7866.5	9129.7	10519.6	11962.0	13559.8
-7.5°	2790.8	3407.1	4129.1	4940.3	5832.0	6819.5	7937.7	9194.5	10569.3	12032.4	13578.2
-10°	2810.9	3433.2	4149.2	4955.1	5851.8	6849.3	7965.0	9204.0	10554.5	12015.8	13527.9
-12.5°	2818.4	3432.6	4143.0	4943.1	5836.6	6835.1	7943.3	9159.0	10476.7	11909.1	13399.7
-15°	2813.4	3415.0	4114.2	4903.8	5785.2	6775.1	7872.2	9060.8	10332.2	11691.6	13140.2
-17.5°	2795.8	3380.3	4062.4	4837.2	5696.8	6668.3	7745.5	8879.2	10124.7	11440.4	12810.5
-20°	2765.6	3328.6	3987.5	4743.1	5576.2	6528.0	7566.5	8664.0	9860.3	11140.7	12441.1



REPORT NUMBER: P731353 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-7F-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2722.8	3259.7	3899.9	4637.2	5460.4	6368.6	7352.8	8405.0	9523.5	10783.1	12022.4
-25°	2673.7	3199.0	3808.3	4521.7	5314.1	6181.8	7102.5	8108.7	9164.3	10343.1	11542.8
-27.5°	2617.6	3125.1	3710.7	4383.4	5134.6	5974.2	6854.5	7799.0	8798.6	9858.5	11008.7
-30°	2548.4	3041.2	3593.8	4231.9	4952.7	5748.2	6594.7	7448.4	8395.4	9394.7	10449.0
-32.5°	2466.2	2939.8	3477.1	4084.9	4754.7	5486.7	6291.5	7103.3	7977.0	8901.8	9878.9
-35°	2378.3	2836.9	3347.2	3917.4	4537.6	5223.5	5958.6	6730.8	7534.3	8403.3	9262.8
-37.5°	2289.9	2719.2	3195.4	3740.1	4334.1	4943.5	5604.6	6339.3	7092.2	7860.6	8649.9
-40°	2190.3	2587.0	3044.4	3552.2	4090.1	4655.6	5275.1	5930.8	6630.8	7324.0	8031.5
-42.5°	2081.9	2465.0	2884.4	3337.5	3840.9	4367.1	4922.9	5536.6	6146.7	6776.2	7429.5
-45°	1979.0	2331.8	2714.0	3135.2	3580.2	4066.7	4585.5	5121.9	5671.1	6227.5	6822.2
-47.5°	1868.4	2193.4	2553.5	2918.5	3327.4	3767.8	4234.2	4716.9	5192.6	5702.8	6211.0
-50°	1753.2	2063.6	2373.8	2713.1	3076.2	3471.4	3894.6	4310.7	4745.8	5187.5	5645.7
-52.5°	1637.7	1926.0	2207.0	2504.0	2832.5	3183.4	3552.1	3923.9	4310.5	4699.4	5092.1
-55°	1513.0	1780.4	2035.4	2303.7	2591.7	2906.2	3218.4	3552.9	3887.9	4243.8	4566.5
-57.5°	1395.0	1623.1	1859.1	2104.2	2362.0	2629.7	2906.9	3186.8	3491.7	3798.6	4075.0
-60°	1278.7	1471.7	1677.8	1902.0	2132.7	2369.7	2599.5	2849.3	3107.3	3358.5	3611.5
-62.5°	1158.1	1329.0	1505.2	1695.4	1905.3	2109.6	2316.9	2527.5	2737.6	2960.5	3174.4
-65°	1039.1	1184.9	1341.1	1505.9	1674.7	1859.2	2041.5	2219.3	2407.1	2589.5	2766.7
-67.5°	914.9	1048.3	1182.1	1319.4	1470.4	1621.0	1772.6	1935.9	2094.5	2243.6	2393.8
-70°	803.8	911.2	1029.6	1150.8	1270.9	1394.5	1529.1	1664.1	1796.6	1923.6	2053.7
-72.5°	693.4	789.8	886.5	983.5	1088.0	1192.0	1297.2	1403.1	1513.9	1624.7	1732.5
-75°	595.0	667.3	751.4	836.9	918.5	998.0	1079.4	1169.4	1258.0	1345.0	1431.1
-77.5°	505.3	566.3	629.3	694.3	756.3	823.0	890.0	957.1	1023.2	1087.8	1151.2
-80°	420.9	463.7	514.5	567.1	616.4	664.9	713.5	762.0	811.0	862.2	915.0
-82.5°	348.4	383.3	418.6	454.2	487.0	519.0	552.0	589.9	628.6	667.1	705.1
-85°	282.2	302.1	329.2	356.6	382.8	408.6	434.0	459.0	484.8	510.2	535.2
-87.5°	250.1	267.6	284.9	302.2	318.8	335.3	351.6	367.8	384.4	401.0	417.5
-90°	7.1	7.1	7.1	7.1	6.9	6.6	6.4	6.1	5.8	5.6	5.3



REPORT NUMBER: P731353 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	375.4	379.7	384.0	388.3	392.6	402.7	412.8	422.9	433.0	435.3	437.5
87.5°	14.1	14.1	14.1	14.1	14.1	16.3	18.7	21.0	23.5	23.2	22.9
85°	36.6	37.2	37.4	37.5	37.3	40.4	43.6	46.6	49.6	47.6	45.3
82.5°	58.4	59.5	60.5	61.5	62.7	65.9	69.1	72.1	74.9	75.9	76.7
80°	76.5	78.5	80.0	81.1	82.0	84.8	87.7	90.5	93.2	96.1	99.0
77.5°	94.0	94.6	94.3	93.4	91.9	92.3	93.0	93.3	93.3	94.8	96.5
75°	106.2	104.8	100.6	95.9	90.5	87.2	84.8	82.2	79.6	79.1	79.3
72.5°	108.9	103.4	96.5	88.1	79.7	73.9	69.9	66.1	62.5	60.7	59.7
70°	103.1	92.5	83.3	74.2	65.3	58.8	54.8	51.3	48.0	45.9	44.4
67.5°	92.8	79.7	70.1	60.7	52.1	45.3	41.9	38.7	35.8	33.7	32.2
65°	82.4	68.5	59.1	50.2	41.4	34.7	32.1	29.5	27.0	25.1	24.0
62.5°	76.6	62.0	52.3	44.5	36.6	28.9	26.1	23.5	20.8	18.8	17.9
60°	78.7	62.1	50.4	43.1	34.9	25.9	22.5	20.1	17.4	15.0	14.1
57.5°	91.0	72.9	55.4	52.5	44.2	31.0	32.2	37.5	33.6	23.2	22.0
55°	139.2	134.7	88.2	114.1	132.7	125.0	116.8	154.6	173.0	174.0	191.1
52.5°	276.7	309.3	297.1	311.2	388.0	419.1	415.1	482.6	517.7	512.9	531.2
50°	582.5	649.3	731.6	744.9	873.6	962.9	984.4	1062.7	1149.6	1182.9	1220.4
47.5°	1136.8	1293.4	1372.9	1462.5	1610.7	1773.0	1898.8	2011.5	2133.6	2217.1	2317.9
45°	1851.8	1962.4	2100.7	2308.9	2535.1	2747.0	2946.0	3127.3	3247.0	3353.6	3466.9
42.5°	2440.0	2616.8	2848.7	3159.2	3481.0	3698.5	3862.2	4037.0	4223.9	4401.5	4565.3
40°	3042.3	3247.1	3615.2	3967.0	4207.1	4417.0	4641.1	4878.3	5122.6	5355.7	5587.5
37.5°	3687.8	3990.6	4312.8	4620.3	4874.4	5073.0	5380.1	5642.8	5887.6	6234.7	6553.1
35°	4374.7	4703.7	4980.6	5332.3	5616.4	5861.3	6182.7	6513.6	6725.5	7201.6	7613.7
32.5°	5058.0	5441.5	5810.6	6144.6	6497.1	6874.8	7187.6	7641.6	7986.9	8442.3	8889.9
30°	5770.0	6295.7	6756.5	7123.0	7603.3	8091.5	8530.4	9064.9	9574.0	9997.8	10472.3
27.5°	6668.5	7253.0	7815.0	8379.8	8892.8	9502.5	10201.1	10766.5	11418.2	11880.3	12376.5
25°	7621.8	8318.1	9065.5	9793.6	10466.5	11255.3	12047.3	12738.1	13413.6	13946.1	14476.4
22.5°	8658.4	9500.3	10389.9	11306.4	12216.2	13080.3	13930.5	14785.5	15564.1	16295.9	16805.7
20°	9711.0	10646.0	11726.4	12830.7	13878.2	14853.6	15875.2	16956.3	17945.7	18793.8	19421.8
17.5°	10660.7	11833.5	13021.7	14233.3	15414.7	16620.2	17887.7	19159.3	20330.6	21323.9	22157.7
15°	11516.2	12845.0	14220.6	15587.6	16946.2	18334.0	19815.1	21185.1	22498.1	23637.2	24612.0
12.5°	12359.8	13779.1	15253.6	16786.3	18397.0	19899.7	21407.6	22884.9	24260.9	25585.0	26561.6
10°	13106.5	14638.9	16217.6	17860.0	19528.2	21158.4	22747.8	24287.9	25639.7	26890.0	28071.5
7.5°	13714.9	15358.4	17043.3	18770.7	20487.6	22138.4	23757.2	25296.2	26668.3	27949.6	29157.8
5°	14239.6	15982.7	17721.6	19443.1	21170.7	22882.9	24517.3	26034.7	27464.0	28795.4	30006.2
2.5°	14667.8	16485.4	18247.2	19942.8	21663.4	23416.1	25091.6	26557.6	28051.6	29405.8	30597.6
0°	14989.1	16823.9	18529.5	20240.1	21982.1	23754.3	25439.7	26875.8	28396.8	29844.0	30977.4
-2.5°	15164.8	16891.9	18589.6	20305.9	22100.4	23923.3	25606.4	27154.3	28666.5	30023.1	31076.8
-5°	15225.9	16924.9	18616.4	20363.7	22142.6	23936.9	25614.2	27166.3	28618.4	29887.3	30848.4
-7.5°	15184.9	16867.2	18541.8	20271.9	22039.5	23812.4	25462.8	26947.3	28345.8	29547.7	30464.8
-10°	15061.2	16690.3	18365.5	20067.1	21838.5	23588.8	25206.2	26545.5	27880.8	29008.4	29875.5
-12.5°	14856.8	16416.6	18068.7	19732.6	21470.6	23153.1	24660.2	25993.8	27186.9	28329.0	29088.0
-15°	14566.8	16070.6	17650.1	19279.5	20926.0	22553.7	24023.2	25312.2	26417.4	27318.4	28117.7
-17.5°	14203.0	15654.0	17167.6	18728.9	20257.9	21806.4	23168.3	24460.0	25523.2	26325.2	26945.5
-20°	13755.3	15163.4	16610.8	18101.5	19522.1	20839.1	22151.9	23353.1	24404.0	25188.2	25784.3



REPORT NUMBER: P731353 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	13282.6	14611.0	15982.4	17326.5	18620.2	19858.3	21047.3	22149.7	23149.0	23890.5	24460.9
-25°	12744.8	13987.2	15255.1	16469.0	17650.5	18803.3	19881.0	20902.5	21774.8	22496.2	23025.8
-27.5°	12155.8	13312.7	14457.1	15586.0	16682.2	17678.7	18670.4	19592.5	20359.6	21023.0	21492.0
-30°	11512.2	12570.2	13642.7	14701.0	15649.3	16546.9	17428.0	18228.4	18931.6	19514.1	19934.7
-32.5°	10833.4	11800.0	12794.9	13751.8	14583.4	15393.2	16161.4	16863.1	17507.9	18022.6	18401.9
-35°	10131.6	11027.1	11920.5	12747.9	13523.0	14243.4	14905.4	15527.3	16061.5	16530.6	16902.5
-37.5°	9441.4	10248.0	11023.3	11745.7	12461.9	13122.6	13700.8	14246.5	14732.1	15123.4	15449.4
-40°	8764.4	9478.4	10138.5	10781.5	11421.4	11980.7	12505.8	12976.4	13406.2	13780.0	14069.6
-42.5°	8091.5	8706.3	9276.0	9854.7	10408.0	10893.0	11350.2	11757.9	12130.8	12465.8	12746.7
-45°	7416.0	7941.9	8449.0	8957.8	9417.2	9849.2	10246.5	10604.7	10937.9	11220.0	11450.3
-47.5°	6726.2	7192.7	7653.3	8094.2	8475.3	8848.6	9190.7	9512.5	9812.7	10066.5	10269.9
-50°	6067.6	6479.9	6892.3	7256.8	7577.2	7888.0	8177.6	8488.2	8766.2	8997.3	9165.4
-52.5°	5449.2	5822.0	6176.6	6475.0	6745.9	6988.6	7211.0	7499.6	7761.2	7988.2	8137.3
-55°	4886.0	5205.1	5509.0	5755.6	5981.8	6184.2	6386.1	6618.0	6829.2	7018.1	7142.7
-57.5°	4355.9	4626.4	4879.2	5086.8	5275.5	5444.8	5632.2	5826.1	5999.3	6148.3	6248.7
-60°	3853.4	4083.6	4293.3	4464.1	4620.9	4763.3	4941.7	5111.0	5260.7	5382.2	5457.1
-62.5°	3379.2	3585.7	3748.8	3886.1	4011.4	4131.4	4287.3	4433.5	4568.5	4676.4	4739.1
-65°	2945.2	3126.0	3247.2	3355.9	3454.6	3562.7	3695.2	3814.2	3919.7	3999.8	4054.3
-67.5°	2549.5	2692.5	2788.1	2874.5	2959.0	3051.5	3164.0	3267.8	3362.8	3428.7	3469.5
-70°	2180.9	2291.1	2368.6	2442.1	2512.7	2592.0	2684.2	2770.0	2849.2	2900.4	2932.9
-72.5°	1836.9	1921.0	1985.0	2048.2	2105.2	2173.2	2248.4	2318.8	2384.1	2422.6	2447.4
-75°	1516.2	1580.6	1633.0	1681.5	1726.0	1783.2	1844.1	1901.2	1954.4	1983.8	2002.8
-77.5°	1218.6	1268.0	1307.4	1343.6	1376.4	1421.7	1468.6	1512.6	1553.6	1579.8	1600.8
-80°	966.7	996.5	1020.7	1043.3	1064.2	1098.1	1132.5	1164.9	1195.3	1212.3	1225.8
-82.5°	742.5	760.6	775.1	787.7	798.6	822.3	845.8	868.2	889.2	900.2	909.6
-85°	559.7	569.5	577.7	585.0	591.4	607.8	624.1	639.7	654.8	658.0	660.3
-87.5°	434.0	439.3	444.3	449.1	453.8	466.0	478.1	490.2	502.1	504.2	506.1
-90°	5.0	4.8	4.5	4.3	4.0	3.8	3.5	3.3	3.0	2.8	2.5



REPORT NUMBER: P731353 (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°
90°	439.8	442.0	440.5	439.0	440.5	442.0	439.8	437.5	435.3	433.0	422.9
87.5°	22.5	22.1	22.2	22.2	22.2	22.1	22.5	22.9	23.2	23.5	21.0
85°	42.9	40.3	38.3	36.3	38.3	40.3	42.9	45.3	47.6	49.6	46.6
82.5°	77.5	78.3	78.1	77.7	78.1	78.3	77.5	76.7	75.9	74.9	72.1
80°	101.8	104.5	105.4	106.0	105.4	104.5	101.8	99.0	96.1	93.2	90.5
77.5°	98.2	99.9	100.4	100.9	100.4	99.9	98.2	96.5	94.8	93.3	93.3
75°	79.6	80.1	79.8	79.7	79.8	80.1	79.6	79.3	79.1	79.6	82.2
72.5°	58.8	58.1	57.7	57.5	57.7	58.1	58.8	59.7	60.7	62.5	66.1
70°	43.1	42.0	41.1	40.4	41.1	42.0	43.1	44.4	45.9	48.0	51.3
67.5°	30.9	29.8	29.0	28.3	29.0	29.8	30.9	32.2	33.7	35.8	38.7
65°	23.2	22.5	21.8	21.2	21.8	22.5	23.2	24.0	25.1	27.0	29.5
62.5°	17.1	16.4	16.2	16.1	16.2	16.4	17.1	17.9	18.8	20.8	23.5
60°	13.2	12.5	12.2	12.1	12.2	12.5	13.2	14.1	15.0	17.4	20.1
57.5°	19.8	17.0	15.2	14.1	15.2	17.0	19.8	22.0	23.2	33.6	37.5
55°	200.2	200.7	204.7	208.9	204.7	200.7	200.2	191.1	174.0	173.0	154.6
52.5°	545.2	543.4	538.5	528.8	538.5	543.4	545.2	531.2	512.9	517.7	482.6
50°	1242.8	1225.3	1187.3	1133.4	1187.3	1225.3	1242.8	1220.4	1182.9	1149.6	1062.7
47.5°	2453.5	2555.0	2625.2	2656.3	2625.2	2555.0	2453.5	2317.9	2217.1	2133.6	2011.5
45°	3584.8	3645.0	3680.1	3707.9	3680.1	3645.0	3584.8	3466.9	3353.6	3247.0	3127.3
42.5°	4704.8	4800.2	4847.2	4839.3	4847.2	4800.2	4704.8	4565.3	4401.5	4223.9	4037.0
40°	5810.2	6009.9	6173.9	6291.6	6173.9	6009.9	5810.2	5587.5	5355.7	5122.6	4878.3
37.5°	6867.9	7165.3	7416.5	7598.5	7416.5	7165.3	6867.9	6553.1	6234.7	5887.6	5642.8
35°	7950.9	8213.1	8385.3	8460.4	8385.3	8213.1	7950.9	7613.7	7201.6	6725.5	6513.6
32.5°	9175.4	9321.1	9352.0	9430.3	9352.0	9321.1	9175.4	8889.9	8442.3	7986.9	7641.6
30°	10761.2	10912.6	10916.3	11014.8	10916.3	10912.6	10761.2	10472.3	9997.8	9574.0	9064.9
27.5°	12767.7	13022.8	13105.6	13192.7	13105.6	13022.8	12767.7	12376.5	11880.3	11418.2	10766.5
25°	14916.3	15154.1	15230.3	15201.1	15230.3	15154.1	14916.3	14476.4	13946.1	13413.6	12738.1
22.5°	17327.9	17636.2	17748.4	17691.8	17748.4	17636.2	17327.9	16805.7	16295.9	15564.1	14785.5
20°	20027.1	20472.1	20707.3	20813.4	20707.3	20472.1	20027.1	19421.8	18793.8	17945.7	16956.3
17.5°	22868.1	23523.9	23825.0	23913.7	23825.0	23523.9	22868.1	22157.7	21323.9	20330.6	19159.3
15°	25452.8	26025.3	26415.8	26616.5	26415.8	26025.3	25452.8	24612.0	23637.2	22498.1	21185.1
12.5°	27451.3	28181.0	28789.2	29115.3	28789.2	28181.0	27451.3	26561.6	25585.0	24260.9	22884.9
10°	29080.3	29817.1	30370.1	30638.3	30370.1	29817.1	29080.3	28071.5	26890.0	25639.7	24287.9
7.5°	30207.4	30892.1	31321.5	31497.1	31321.5	30892.1	30207.4	29157.8	27949.6	26668.3	25296.2
5°	30935.9	31590.6	31908.0	32021.9	31908.0	31590.6	30935.9	30006.2	28795.4	27464.0	26034.7
2.5°	31460.4	31978.4	32232.6	32249.0	32232.6	31978.4	31460.4	30597.6	29405.8	28051.6	26557.6
0°	31700.0	32166.2	32444.8	32439.7	32444.8	32166.2	31700.0	30977.4	29844.0	28396.8	26875.8
-2.5°	31711.6	32117.2	32315.2	32203.6	32315.2	32117.2	31711.6	31076.8	30023.1	28666.5	27154.3
-5°	31485.4	31882.5	32030.8	31996.7	32030.8	31882.5	31485.4	30848.4	29887.3	28618.4	27166.3
-7.5°	31079.4	31431.6	31583.0	31587.9	31583.0	31431.6	31079.4	30464.8	29547.7	28345.8	26947.3
-10°	30460.1	30754.5	30927.9	30878.5	30927.9	30754.5	30460.1	29875.5	29008.4	27880.8	26545.5
-12.5°	29641.0	29931.5	30078.6	30048.9	30078.6	29931.5	29641.0	29088.0	28329.0	27186.9	25993.8
-15°	28661.2	28937.3	29075.1	29061.8	29075.1	28937.3	28661.2	28117.7	27318.4	26417.4	25312.2
-17.5°	27448.0	27724.8	27865.9	27885.1	27865.9	27724.8	27448.0	26945.5	26325.2	25523.2	24460.0
-20°	26176.7	26420.8	26550.0	26551.9	26550.0	26420.8	26176.7	25784.3	25188.2	24404.0	23353.1



REPORT NUMBER: P731353 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-7F-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	24858.8	25132.9	25286.2	25263.1	25286.2	25132.9	24858.8	24460.9	23890.5	23149.0	22149.7
-25°	23389.9	23664.6	23813.7	23807.8	23813.7	23664.6	23389.9	23025.8	22496.2	21774.8	20902.5
-27.5°	21821.7	22085.7	22229.7	22247.5	22229.7	22085.7	21821.7	21492.0	21023.0	20359.6	19592.5
-30°	20242.1	20502.4	20643.4	20654.9	20643.4	20502.4	20242.1	19934.7	19514.1	18931.6	18228.4
-32.5°	18694.3	18929.4	19059.6	19073.5	19059.6	18929.4	18694.3	18401.9	18022.6	17507.9	16863.1
-35°	17184.2	17390.7	17507.6	17545.5	17507.6	17390.7	17184.2	16902.5	16530.6	16061.5	15527.3
-37.5°	15714.5	15901.2	16014.0	16083.1	16014.0	15901.2	15714.5	15449.4	15123.4	14732.1	14246.5
-40°	14294.9	14458.5	14548.5	14550.1	14548.5	14458.5	14294.9	14069.6	13780.0	13406.2	12976.4
-42.5°	12954.8	13092.5	13161.3	13162.4	13161.3	13092.5	12954.8	12746.7	12465.8	12130.8	11757.9
-45°	11635.8	11770.5	11865.9	11926.1	11865.9	11770.5	11635.8	11450.3	11220.0	10937.9	10604.7
-47.5°	10425.1	10535.5	10611.2	10652.4	10611.2	10535.5	10425.1	10269.9	10066.5	9812.7	9512.5
-50°	9288.7	9376.9	9441.5	9479.7	9441.5	9376.9	9288.7	9165.4	8997.3	8766.2	8488.2
-52.5°	8238.4	8302.9	8326.0	8311.0	8326.0	8302.9	8238.4	8137.3	7988.2	7761.2	7499.6
-55°	7236.1	7300.4	7326.0	7316.9	7326.0	7300.4	7236.1	7142.7	7018.1	6829.2	6618.0
-57.5°	6327.6	6384.6	6430.2	6458.1	6430.2	6384.6	6327.6	6248.7	6148.3	5999.3	5826.1
-60°	5516.2	5558.3	5586.9	5598.2	5586.9	5558.3	5516.2	5457.1	5382.2	5260.7	5111.0
-62.5°	4783.1	4809.3	4829.7	4838.3	4829.7	4809.3	4783.1	4739.1	4676.4	4568.5	4433.5
-65°	4097.8	4129.8	4125.9	4103.5	4125.9	4129.8	4097.8	4054.3	3999.8	3919.7	3814.2
-67.5°	3500.3	3521.1	3539.1	3548.5	3539.1	3521.1	3500.3	3469.5	3428.7	3362.8	3267.8
-70°	2957.8	2974.9	2981.2	2979.3	2981.2	2974.9	2957.8	2932.9	2900.4	2849.2	2770.0
-72.5°	2466.0	2478.5	2481.0	2476.7	2481.0	2478.5	2466.0	2447.4	2422.6	2384.1	2318.8
-75°	2016.4	2024.6	2028.8	2028.6	2028.8	2024.6	2016.4	2002.8	1983.8	1954.4	1901.2
-77.5°	1618.3	1632.3	1626.3	1615.8	1626.3	1632.3	1618.3	1600.8	1579.8	1553.6	1512.6
-80°	1236.9	1245.4	1240.7	1233.3	1240.7	1245.4	1236.9	1225.8	1212.3	1195.3	1164.9
-82.5°	917.7	924.4	916.8	907.3	916.8	924.4	917.7	909.6	900.2	889.2	868.2
-85°	661.9	662.9	662.3	661.0	662.3	662.9	661.9	660.3	658.0	654.8	639.7
-87.5°	507.8	509.4	508.1	506.6	508.1	509.4	507.8	506.1	504.2	502.1	490.2
-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°	412.8	402.7	392.6	388.3	384.0	379.7	375.4	361.8	348.2	334.5	320.9
87.5°	18.7	16.3	14.1	14.1	14.1	14.1	14.1	13.1	12.1	11.2	10.4
85°	43.6	40.4	37.3	37.5	37.4	37.2	36.6	33.8	30.9	28.0	25.0
82.5°	69.1	65.9	62.7	61.5	60.5	59.5	58.4	55.5	52.5	49.3	46.0
80°	87.7	84.8	82.0	81.1	80.0	78.5	76.5	73.3	69.8	66.1	62.0
77.5°	93.0	92.3	91.9	93.4	94.3	94.6	94.0	91.4	87.9	83.9	79.0
75°	84.8	87.2	90.5	95.9	100.6	104.8	106.2	105.3	103.5	100.7	95.8
72.5°	69.9	73.9	79.7	88.1	96.5	103.4	108.9	113.0	115.4	115.9	112.1
70°	54.8	58.8	65.3	74.2	83.3	92.5	103.1	113.4	122.4	127.0	124.7
67.5°	41.9	45.3	52.1	60.7	70.1	79.7	92.8	106.3	118.2	128.2	132.2
65°	32.1	34.7	41.4	50.2	59.1	68.5	82.4	96.4	110.7	124.4	133.7
62.5°	26.1	28.9	36.6	44.5	52.3	62.0	76.6	91.3	104.8	118.2	132.3
60°	22.5	25.9	34.9	43.1	50.4	62.1	78.7	92.6	103.7	122.1	137.2
57.5°	32.2	31.0	44.2	52.5	55.4	72.9	91.0	102.3	113.7	138.0	150.7
55°	116.8	125.0	132.7	114.1	88.2	134.7	139.2	129.1	150.1	169.3	187.1
52.5°	415.1	419.1	388.0	311.2	297.1	309.3	276.7	264.0	250.5	271.8	260.5
50°	984.4	962.9	873.6	744.9	731.6	649.3	582.5	510.2	511.0	480.1	412.5
47.5°	1898.8	1773.0	1610.7	1462.5	1372.9	1293.4	1136.8	931.3	917.8	804.8	702.5
45°	2946.0	2747.0	2535.1	2308.9	2100.7	1962.4	1851.8	1644.3	1444.3	1309.2	1076.4
42.5°	3862.2	3698.5	3481.0	3159.2	2848.7	2616.8	2440.0	2268.8	2062.1	1866.3	1634.7
40°	4641.1	4417.0	4207.1	3967.0	3615.2	3247.1	3042.3	2817.6	2606.0	2384.9	2150.4
37.5°	5380.1	5073.0	4874.4	4620.3	4312.8	3990.6	3687.8	3413.6	3117.8	2869.7	2603.1
35°	6182.7	5861.3	5616.4	5332.3	4980.6	4703.7	4374.7	4032.1	3699.4	3359.5	3055.3
32.5°	7187.6	6874.8	6497.1	6144.6	5810.6	5441.5	5058.0	4654.6	4301.5	3905.3	3518.5
30°	8530.4	8091.5	7603.3	7123.0	6756.5	6295.7	5770.0	5363.6	4940.1	4471.0	3996.1
27.5°	10201.1	9502.5	8892.8	8379.8	7815.0	7253.0	6668.5	6113.7	5611.0	5073.3	4520.5
25°	12047.3	11255.3	10466.5	9793.6	9065.5	8318.1	7621.8	6953.0	6326.0	5695.9	5017.6
22.5°	13930.5	13080.3	12216.2	11306.4	10389.9	9500.3	8658.4	7803.9	7041.8	6297.0	5547.3
20°	15875.2	14853.6	13878.2	12830.7	11726.4	10646.0	9711.0	8702.0	7772.4	6906.8	6072.9
17.5°	17887.7	16620.2	15414.7	14233.3	13021.7	11833.5	10660.7	9547.2	8495.8	7505.8	6581.7
15°	19815.1	18334.0	16946.2	15587.6	14220.6	12845.0	11516.2	10312.3	9208.3	8115.2	7081.7
12.5°	21407.6	19899.7	18397.0	16786.3	15253.6	13779.1	12359.8	11047.3	9843.9	8635.7	7503.7
10°	22747.8	21158.4	19528.2	17860.0	16217.6	14638.9	13106.5	11645.0	10302.7	9058.0	7880.9
7.5°	23757.2	22138.4	20487.6	18770.7	17043.3	15358.4	13714.9	12154.2	10711.2	9414.8	8211.4
5°	24517.3	22882.9	21170.7	19443.1	17721.6	15982.7	14239.6	12593.7	11062.7	9707.3	8493.3
2.5°	25091.6	23416.1	21663.4	19942.8	18247.2	16485.4	14667.8	12951.0	11390.9	9970.4	8678.3
0°	25439.7	23754.3	21982.1	20240.1	18529.5	16823.9	14989.1	13214.9	11668.7	10184.2	8812.6
-2.5°	25606.4	23923.3	22100.4	20305.9	18589.6	16891.9	15164.8	13442.4	11843.9	10386.9	8999.6
-5°	25614.2	23936.9	22142.6	20363.7	18616.4	16924.9	15225.9	13559.8	11962.0	10519.6	9129.7
-7.5°	25462.8	23812.4	22039.5	20271.9	18541.8	16867.2	15184.9	13578.2	12032.4	10569.3	9194.5
-10°	25206.2	23588.8	21838.5	20067.1	18365.5	16690.3	15061.2	13527.9	12015.8	10554.5	9204.0
-12.5°	24660.2	23153.1	21470.6	19732.6	18068.7	16416.6	14856.8	13399.7	11909.1	10476.7	9159.0
-15°	24023.2	22553.7	20926.0	19279.5	17650.1	16070.6	14566.8	13140.2	11691.6	10332.2	9060.8
-17.5°	23168.3	21806.4	20257.9	18728.9	17167.6	15654.0	14203.0	12810.5	11440.4	10124.7	8879.2
-20°	22151.9	20839.1	19522.1	18101.5	16610.8	15163.4	13755.3	12441.1	11140.7	9860.3	8664.0



REPORT NUMBER: P731353 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-7F-VHE

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	21047.3	19858.3	18620.2	17326.5	15982.4	14611.0	13282.6	12022.4	10783.1	9523.5	8405.0
-25°	19881.0	18803.3	17650.5	16469.0	15255.1	13987.2	12744.8	11542.8	10343.1	9164.3	8108.7
-27.5°	18670.4	17678.7	16682.2	15586.0	14457.1	13312.7	12155.8	11008.7	9858.5	8798.6	7799.0
-30°	17428.0	16546.9	15649.3	14701.0	13642.7	12570.2	11512.2	10449.0	9394.7	8395.4	7448.4
-32.5°	16161.4	15393.2	14583.4	13751.8	12794.9	11800.0	10833.4	9878.9	8901.8	7977.0	7103.3
-35°	14905.4	14243.4	13523.0	12747.9	11920.5	11027.1	10131.6	9262.8	8403.3	7534.3	6730.8
-37.5°	13700.8	13122.6	12461.9	11745.7	11023.3	10248.0	9441.4	8649.9	7860.6	7092.2	6339.3
-40°	12505.8	11980.7	11421.4	10781.5	10138.5	9478.4	8764.4	8031.5	7324.0	6630.8	5930.8
-42.5°	11350.2	10893.0	10408.0	9854.7	9276.0	8706.3	8091.5	7429.5	6776.2	6146.7	5536.6
-45°	10246.5	9849.2	9417.2	8957.8	8449.0	7941.9	7416.0	6822.2	6227.5	5671.1	5121.9
-47.5°	9190.7	8848.6	8475.3	8094.2	7653.3	7192.7	6726.2	6211.0	5702.8	5192.6	4716.9
-50°	8177.6	7888.0	7577.2	7256.8	6892.3	6479.9	6067.6	5645.7	5187.5	4745.8	4310.7
-52.5°	7211.0	6988.6	6745.9	6475.0	6176.6	5822.0	5449.2	5092.1	4699.4	4310.5	3923.9
-55°	6386.1	6184.2	5981.8	5755.6	5509.0	5205.1	4886.0	4566.5	4243.8	3887.9	3552.9
-57.5°	5632.2	5444.8	5275.5	5086.8	4879.2	4626.4	4355.9	4075.0	3798.6	3491.7	3186.8
-60°	4941.7	4763.3	4620.9	4464.1	4293.3	4083.6	3853.4	3611.5	3358.5	3107.3	2849.3
-62.5°	4287.3	4131.4	4011.4	3886.1	3748.8	3585.7	3379.2	3174.4	2960.5	2737.6	2527.5
-65°	3695.2	3562.7	3454.6	3355.9	3247.2	3126.0	2945.2	2766.7	2589.5	2407.1	2219.3
-67.5°	3164.0	3051.5	2959.0	2874.5	2788.1	2692.5	2549.5	2393.8	2243.6	2094.5	1935.9
-70°	2684.2	2592.0	2512.7	2442.1	2368.6	2291.1	2180.9	2053.7	1923.6	1796.6	1664.1
-72.5°	2248.4	2173.2	2105.2	2048.2	1985.0	1921.0	1836.9	1732.5	1624.7	1513.9	1403.1
-75°	1844.1	1783.2	1726.0	1681.5	1633.0	1580.6	1516.2	1431.1	1345.0	1258.0	1169.4
-77.5°	1468.6	1421.7	1376.4	1343.6	1307.4	1268.0	1218.6	1151.2	1087.8	1023.2	957.1
-80°	1132.5	1098.1	1064.2	1043.3	1020.7	996.5	966.7	915.0	862.2	811.0	762.0
-82.5°	845.8	822.3	798.6	787.7	775.1	760.6	742.5	705.1	667.1	628.6	589.9
-85°	624.1	607.8	591.4	585.0	577.7	569.5	559.7	535.2	510.2	484.8	459.0
-87.5°	478.1	466.0	453.8	449.1	444.3	439.3	434.0	417.5	401.0	384.4	367.8
-90°	3.5	3.8	4.0	4.3	4.5	4.8	5.0	5.3	5.6	5.8	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°	306.3	291.7	277.0	262.4	247.5	232.7	217.8	202.9	186.0	169.1	152.1
87.5°	11.1	11.8	12.4	12.9	12.7	12.4	12.1	11.8	12.3	12.6	12.8
85°	23.5	22.1	21.1	20.3	19.2	17.7	17.1	16.5	17.2	17.6	17.7
82.5°	42.5	38.8	35.4	32.6	31.7	30.3	28.4	26.1	24.8	23.1	22.7
80°	57.0	52.2	47.6	43.9	43.4	43.0	41.1	38.5	36.5	34.0	31.0
77.5°	72.3	65.7	59.0	54.3	52.8	51.4	50.3	49.8	48.3	44.9	40.9
75°	88.3	80.5	72.8	67.4	64.4	59.6	57.6	57.8	59.5	56.1	50.9
72.5°	104.8	96.5	87.4	82.2	80.6	76.3	69.4	66.7	71.1	69.6	62.1
70°	119.5	112.8	103.9	101.6	99.6	94.0	87.6	85.7	83.8	83.7	77.1
67.5°	133.0	127.0	119.3	122.5	122.2	117.1	107.2	108.1	107.4	98.8	92.6
65°	137.2	137.6	135.8	144.4	146.3	141.8	132.3	133.8	132.0	123.5	108.6
62.5°	141.6	145.4	152.1	167.8	172.5	169.0	160.5	166.0	159.2	149.0	130.8
60°	146.4	153.7	172.3	192.0	200.5	198.2	196.4	200.2	193.6	175.3	155.9
57.5°	162.4	165.7	198.9	221.6	231.2	230.1	236.6	240.3	229.6	208.5	181.9
55°	188.7	201.3	238.5	259.3	268.1	265.3	282.9	285.0	268.8	244.4	209.7
52.5°	240.5	269.3	301.3	312.6	314.0	314.6	338.6	333.2	315.3	281.4	244.8
50°	356.4	381.8	398.8	392.1	371.1	389.2	401.2	393.7	364.2	321.9	281.4
47.5°	601.2	590.7	547.1	499.6	461.5	477.2	484.2	460.5	415.7	369.1	318.8
45°	978.2	891.1	773.8	672.0	591.1	600.0	582.0	532.8	482.2	420.2	356.9
42.5°	1388.1	1256.8	1107.5	867.2	790.8	743.0	690.6	629.9	552.7	473.0	400.1
40°	1869.4	1643.3	1470.6	1211.5	1003.7	899.3	830.3	737.9	626.5	530.5	447.1
37.5°	2324.4	2047.5	1831.1	1536.2	1238.5	1097.1	981.8	853.5	705.4	594.7	494.6
35°	2744.9	2440.1	2138.7	1829.3	1518.1	1295.5	1141.9	982.5	797.4	658.3	542.7
32.5°	3156.2	2802.1	2451.9	2105.5	1775.2	1494.1	1316.2	1096.0	885.7	721.2	591.2
30°	3579.1	3165.9	2763.7	2372.9	2014.5	1715.5	1473.5	1202.5	970.0	783.2	640.7
27.5°	4003.7	3525.0	3076.5	2648.3	2252.2	1918.1	1593.7	1301.7	1050.3	848.0	692.4
25°	4439.0	3903.5	3399.2	2923.5	2480.0	2074.1	1708.9	1394.2	1132.3	916.3	742.7
22.5°	4881.5	4287.4	3713.4	3191.7	2669.3	2231.2	1829.7	1491.3	1211.4	980.9	791.4
20°	5298.0	4665.5	4007.3	3407.0	2856.1	2393.9	1958.1	1582.9	1284.3	1041.7	838.4
17.5°	5699.5	5005.6	4268.4	3617.8	3037.1	2543.3	2083.3	1668.7	1351.0	1098.7	883.5
15°	6115.2	5303.7	4521.1	3811.6	3202.3	2679.6	2204.0	1748.3	1411.6	1151.6	921.5
12.5°	6487.2	5593.2	4756.9	3987.6	3351.1	2802.5	2318.6	1821.3	1466.2	1198.3	951.0
10°	6818.3	5869.3	4973.3	4144.8	3483.4	2912.3	2425.9	1895.6	1530.3	1240.2	978.5
7.5°	7108.1	6126.7	5167.2	4282.4	3600.0	3003.5	2507.2	1980.3	1593.8	1279.1	1003.6
5°	7346.4	6339.6	5353.5	4441.3	3707.9	3077.6	2569.4	2057.8	1653.7	1314.4	1025.9
2.5°	7501.9	6484.6	5520.3	4588.9	3800.4	3140.2	2616.8	2127.5	1708.8	1345.8	1045.0
0°	7616.7	6591.3	5655.7	4715.1	3875.5	3190.2	2651.3	2189.0	1758.1	1372.6	1060.7
-2.5°	7764.6	6695.8	5740.2	4815.1	3980.5	3278.9	2709.9	2227.9	1792.7	1406.1	1086.8
-5°	7866.5	6764.3	5795.2	4890.4	4065.4	3351.9	2756.8	2257.9	1820.4	1434.3	1108.8
-7.5°	7937.7	6819.5	5832.0	4940.3	4129.1	3407.1	2790.8	2278.9	1841.2	1457.2	1126.5
-10°	7965.0	6849.3	5851.8	4955.1	4149.2	3433.2	2810.9	2290.8	1855.4	1474.3	1139.8
-12.5°	7943.3	6835.1	5836.6	4943.1	4143.0	3432.6	2818.4	2300.2	1863.4	1485.6	1148.4
-15°	7872.2	6775.1	5785.2	4903.8	4114.2	3415.0	2813.4	2302.4	1866.6	1489.5	1152.2
-17.5°	7745.5	6668.3	5696.8	4837.2	4062.4	3380.3	2795.8	2293.9	1861.7	1485.2	1149.5
-20°	7566.5	6528.0	5576.2	4743.1	3987.5	3328.6	2765.6	2274.3	1848.5	1474.3	1141.0



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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°	7352.8	6368.6	5460.4	4637.2	3899.9	3259.7	2722.8	2243.5	1826.6	1456.7	1128.0
-25°	7102.5	6181.8	5314.1	4521.7	3808.3	3199.0	2673.7	2201.4	1796.1	1432.3	1110.4
-27.5°	6854.5	5974.2	5134.6	4383.4	3710.7	3125.1	2617.6	2160.0	1759.2	1401.0	1088.4
-30°	6594.7	5748.2	4952.7	4231.9	3593.8	3041.2	2548.4	2108.9	1718.5	1368.1	1061.8
-32.5°	6291.5	5486.7	4754.7	4084.9	3477.1	2939.8	2466.2	2047.5	1669.5	1332.9	1036.4
-35°	5958.6	5223.5	4537.6	3917.4	3347.2	2836.9	2378.3	1975.9	1612.2	1292.5	1008.9
-37.5°	5604.6	4943.5	4334.1	3740.1	3195.4	2719.2	2289.9	1901.6	1546.7	1247.1	977.6
-40°	5275.1	4655.6	4090.1	3552.2	3044.4	2587.0	2190.3	1823.3	1485.3	1196.7	942.6
-42.5°	4922.9	4367.1	3840.9	3337.5	2884.4	2465.0	2081.9	1737.7	1424.5	1148.9	904.1
-45°	4585.5	4066.7	3580.2	3135.2	2714.0	2331.8	1979.0	1647.1	1356.5	1100.5	864.6
-47.5°	4234.2	3767.8	3327.4	2918.5	2553.5	2193.4	1868.4	1561.7	1281.3	1048.0	825.1
-50°	3894.6	3471.4	3076.2	2713.1	2373.8	2063.6	1753.2	1467.8	1213.9	989.2	781.7
-52.5°	3552.1	3183.4	2832.5	2504.0	2207.0	1926.0	1637.7	1367.6	1140.6	929.8	734.5
-55°	3218.4	2906.2	2591.7	2303.7	2035.4	1780.4	1513.0	1277.4	1061.6	867.8	684.8
-57.5°	2906.9	2629.7	2362.0	2104.2	1859.1	1623.1	1395.0	1180.9	983.4	801.8	640.5
-60°	2599.5	2369.7	2132.7	1902.0	1677.8	1471.7	1278.7	1081.5	902.2	734.3	592.1
-62.5°	2316.9	2109.6	1905.3	1695.4	1505.2	1329.0	1158.1	983.4	816.6	673.1	540.5
-65°	2041.5	1859.2	1674.7	1505.9	1341.1	1184.9	1039.1	880.4	738.7	609.0	490.1
-67.5°	1772.6	1621.0	1470.4	1319.4	1182.1	1048.3	914.9	785.2	660.5	542.0	446.9
-70°	1529.1	1394.5	1270.9	1150.8	1029.6	911.2	803.8	691.5	579.2	488.3	401.9
-72.5°	1297.2	1192.0	1088.0	983.5	886.5	789.8	693.4	599.1	514.4	433.1	355.5
-75°	1079.4	998.0	918.5	836.9	751.4	667.3	595.0	522.9	448.2	376.4	316.4
-77.5°	890.0	823.0	756.3	694.3	629.3	566.3	505.3	444.8	384.3	330.4	279.2
-80°	713.5	664.9	616.4	567.1	514.5	463.7	420.9	377.8	330.1	284.5	241.1
-82.5°	552.0	519.0	487.0	454.2	418.6	383.3	348.4	313.6	274.9	237.8	209.2
-85°	434.0	408.6	382.8	356.6	329.2	302.1	282.2	261.9	237.9	214.0	190.5
-87.5°	351.6	335.3	318.8	302.2	284.9	267.6	250.1	232.6	212.1	191.7	171.4
-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°	135.2	112.0	88.8	65.6	42.4	24.8	7.1
87.5°	12.8	12.4	11.9	11.2	10.3	9.0	7.1
85°	17.5	16.7	15.6	14.2	12.5	10.4	7.1
82.5°	22.2	21.0	19.4	17.3	14.7	11.8	7.1
80°	27.4	25.3	23.1	20.3	16.9	13.2	7.1
77.5°	36.5	31.4	26.9	23.3	19.1	14.6	7.1
75°	45.8	40.7	31.6	26.4	21.3	16.0	7.1
72.5°	55.4	50.2	40.3	29.4	23.6	17.4	7.1
70°	65.9	59.8	49.1	33.3	25.8	18.7	7.1
67.5°	82.1	69.5	58.0	40.7	28.1	20.1	7.1
65°	98.6	82.3	66.9	48.1	30.4	21.5	7.1
62.5°	115.6	98.2	75.9	55.5	32.7	22.8	7.1
60°	133.2	114.3	85.0	62.9	35.0	24.1	7.1
57.5°	157.3	130.6	98.8	70.3	40.4	25.4	7.1
55°	182.7	147.2	112.9	77.6	45.7	26.7	7.1
52.5°	208.5	165.0	127.1	84.9	51.0	28.0	7.1
50°	234.8	187.6	141.3	92.1	56.1	29.3	7.1
47.5°	262.4	210.4	155.5	100.2	61.2	30.5	7.1
45°	295.5	233.2	169.6	110.9	66.1	31.7	7.1
42.5°	328.7	256.1	183.8	121.4	70.9	32.9	7.1
40°	362.2	279.0	199.8	131.8	75.6	34.1	7.1
37.5°	395.7	301.8	217.6	142.0	80.2	35.2	7.1
35°	429.3	327.4	235.1	151.8	84.6	36.3	7.1
32.5°	464.6	354.0	252.2	161.3	88.9	37.3	7.1
30°	503.8	380.2	269.0	170.4	93.0	38.3	7.1
27.5°	542.6	405.8	284.2	179.0	96.9	39.3	7.1
25°	580.8	430.8	298.6	187.3	100.6	40.2	7.1
22.5°	618.2	453.9	312.3	195.1	104.1	41.1	7.1
20°	654.5	473.1	325.1	202.4	107.4	41.9	7.1
17.5°	683.0	490.8	337.1	209.2	110.5	42.7	7.1
15°	705.2	507.1	348.2	215.5	113.4	43.4	7.1
12.5°	724.8	521.8	358.4	221.3	116.0	44.1	7.1
10°	741.8	534.9	367.5	226.5	118.4	44.7	7.1
7.5°	756.2	546.5	375.7	231.1	120.5	45.2	7.1
5°	768.1	556.4	382.8	235.1	122.3	45.7	7.1
2.5°	777.4	564.6	388.8	238.5	123.8	46.1	7.1
0°	784.2	571.2	393.6	241.2	125.1	46.4	7.1
-2.5°	803.0	581.9	400.0	244.9	127.0	47.3	7.1
-5°	819.1	590.7	405.2	247.8	128.6	48.1	7.1
-7.5°	832.3	597.6	409.2	250.1	130.0	48.9	7.1
-10°	842.1	602.5	411.8	251.6	130.9	49.6	7.1
-12.5°	848.5	605.4	413.0	252.4	131.6	50.1	7.1
-15°	851.3	606.0	412.9	252.4	132.0	50.6	7.1
-17.5°	850.1	604.5	411.3	251.6	132.0	51.1	7.1
-20°	845.4	600.6	408.3	250.1	131.7	51.4	7.1



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

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	838.0	594.4	403.8	247.8	131.1	51.6	7.1
-25°	827.3	588.3	397.8	244.6	130.1	51.7	7.1
-27.5°	813.3	580.7	390.2	240.7	128.8	51.8	7.1
-30°	796.0	570.7	381.4	236.0	127.2	51.7	7.1
-32.5°	775.5	558.0	373.4	230.4	125.3	51.6	7.1
-35°	756.4	542.9	363.8	224.1	123.0	51.3	7.1
-37.5°	735.9	526.6	352.5	217.0	120.4	51.0	7.1
-40°	712.1	511.0	339.7	209.1	117.6	50.5	7.1
-42.5°	685.0	493.2	327.8	200.9	114.4	50.0	7.1
-45°	654.8	473.2	317.1	192.8	110.9	49.4	7.1
-47.5°	621.3	451.2	305.1	183.9	107.1	48.7	7.1
-50°	590.9	427.2	291.8	177.6	103.0	47.9	7.1
-52.5°	559.0	401.1	277.4	171.8	98.6	47.0	7.1
-55°	524.6	379.7	261.8	165.3	94.0	46.0	7.1
-57.5°	487.8	358.0	245.1	158.1	89.1	44.9	7.1
-60°	449.9	334.7	227.6	150.4	84.0	43.8	7.1
-62.5°	418.9	310.1	215.5	142.1	81.3	42.6	7.1
-65°	386.2	284.1	202.5	133.3	78.5	41.3	7.1
-67.5°	351.9	261.1	188.8	123.9	75.5	39.9	7.1
-70°	316.0	241.2	174.3	114.1	72.3	38.4	7.1
-72.5°	287.5	220.4	159.1	108.0	69.0	36.9	7.1
-75°	259.1	198.6	143.3	102.6	65.6	35.3	7.1
-77.5°	229.6	176.1	133.7	96.9	62.0	33.7	7.1
-80°	199.3	160.7	125.3	91.1	58.3	32.0	7.1
-82.5°	182.4	149.0	116.5	85.0	54.4	30.3	7.1
-85°	167.0	137.0	107.5	78.7	50.5	28.5	7.1
-87.5°	151.3	124.6	98.3	72.2	46.5	26.6	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

