

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: P731329 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-70-7F-VHE**

Issue Date: 11/16/2023

Test Information

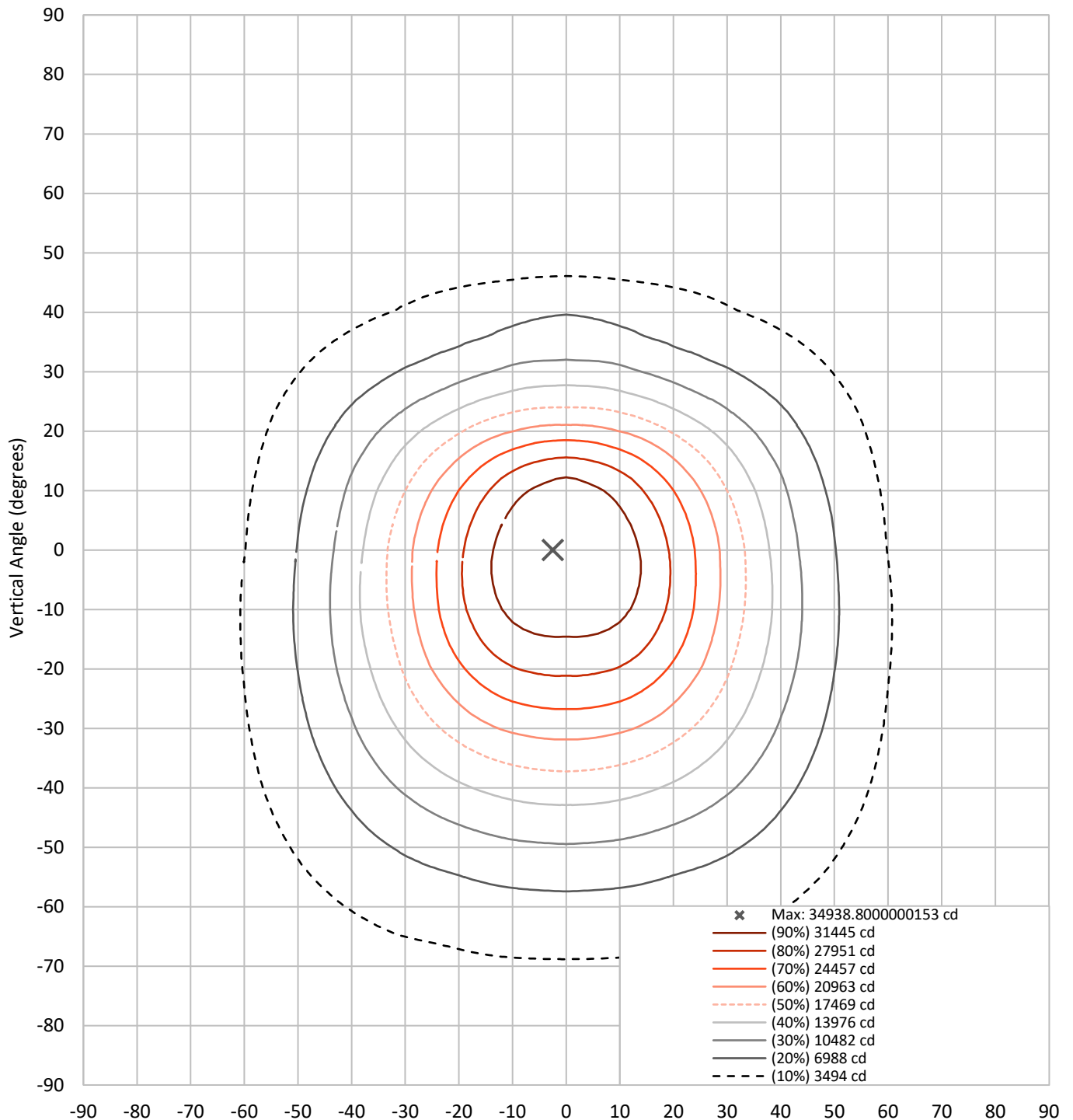
Test Method: LM-79-08
Report Number: P731329 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-6)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-40-70-7F-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 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:	46481.5 lumens	Max Intensity:	34938.8 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	134.4 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:	25237.2 lumens	Field Lumens:	43557.3 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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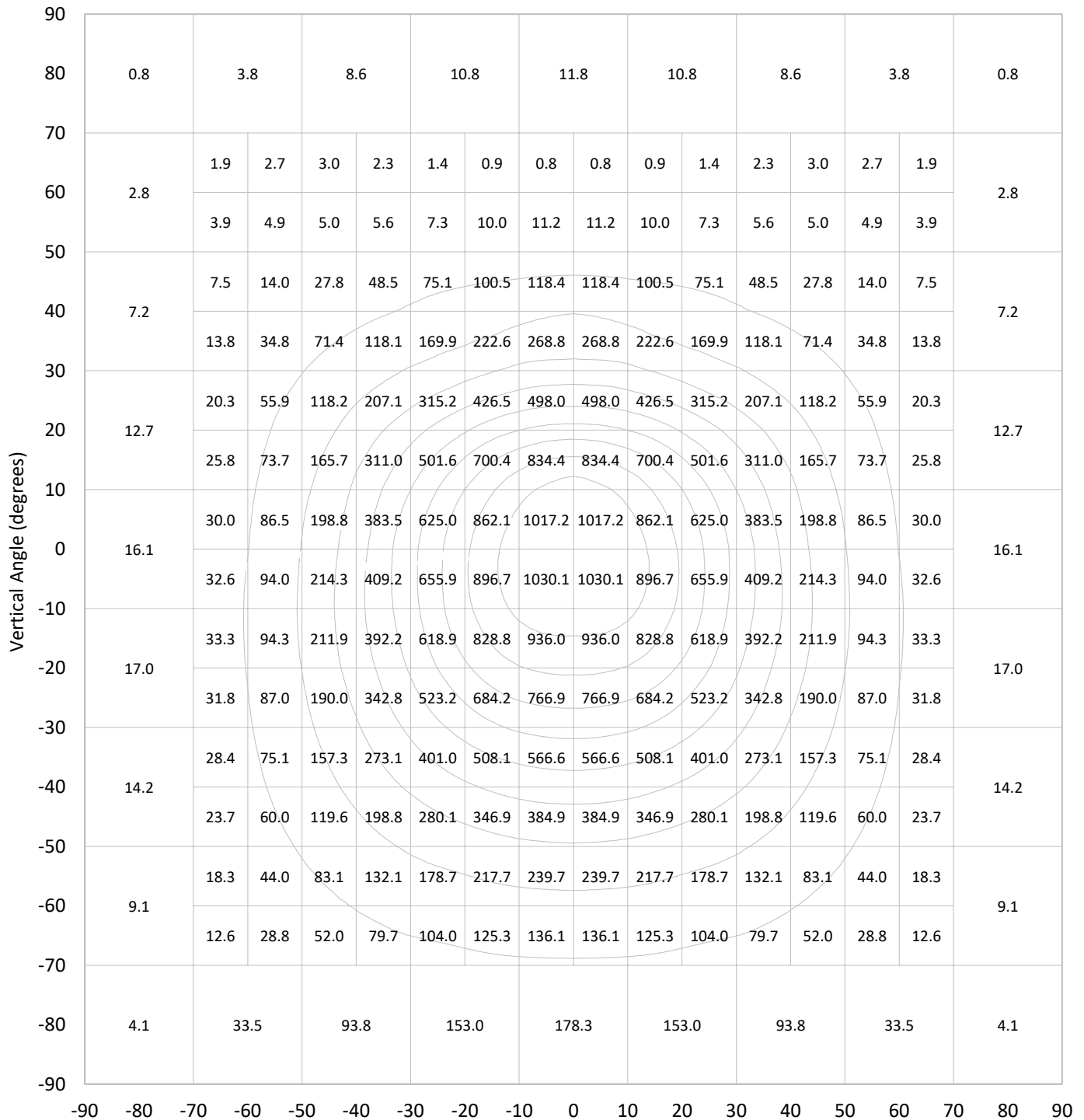
Iso-Candela Plot





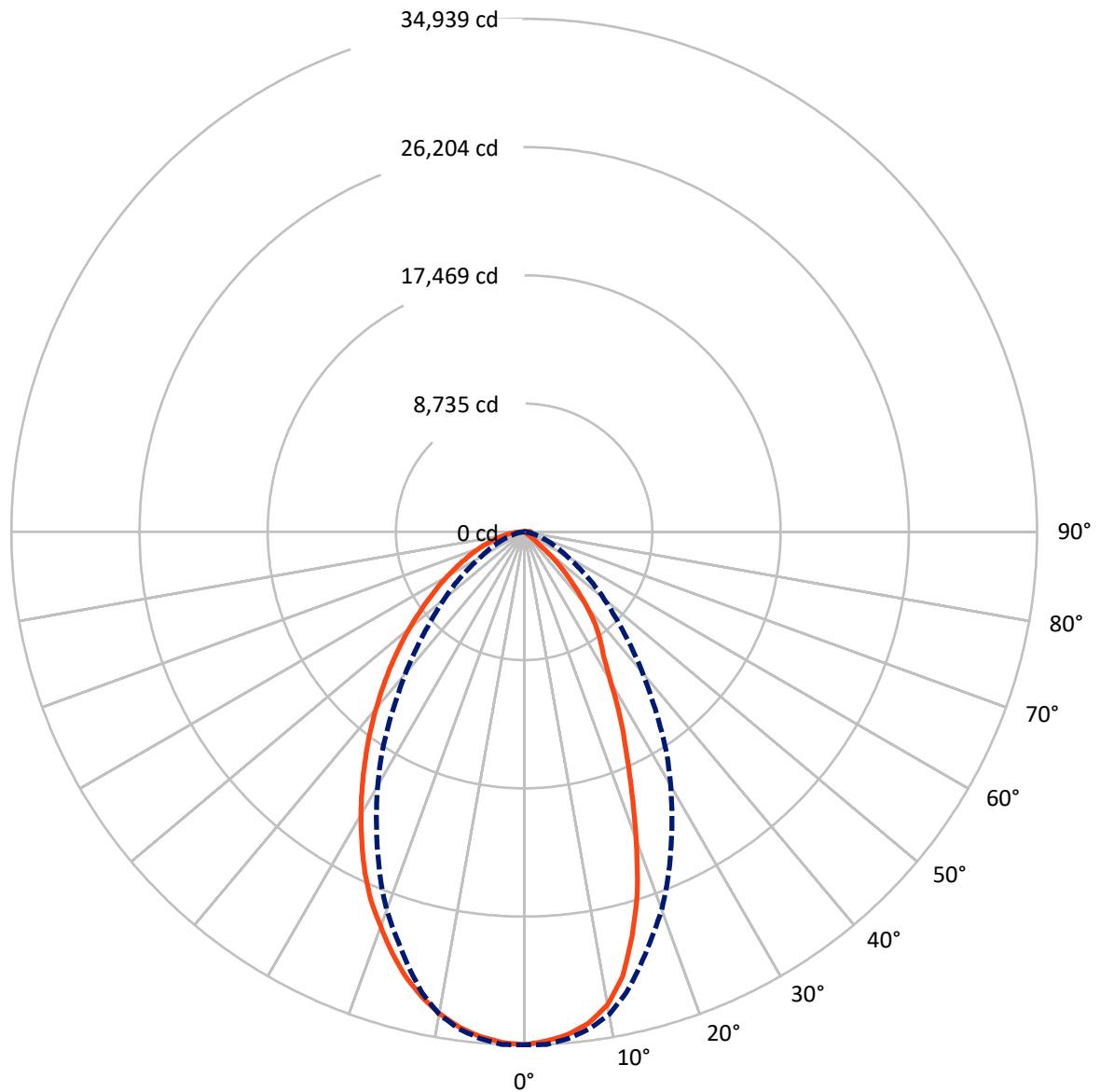
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Lumen Table



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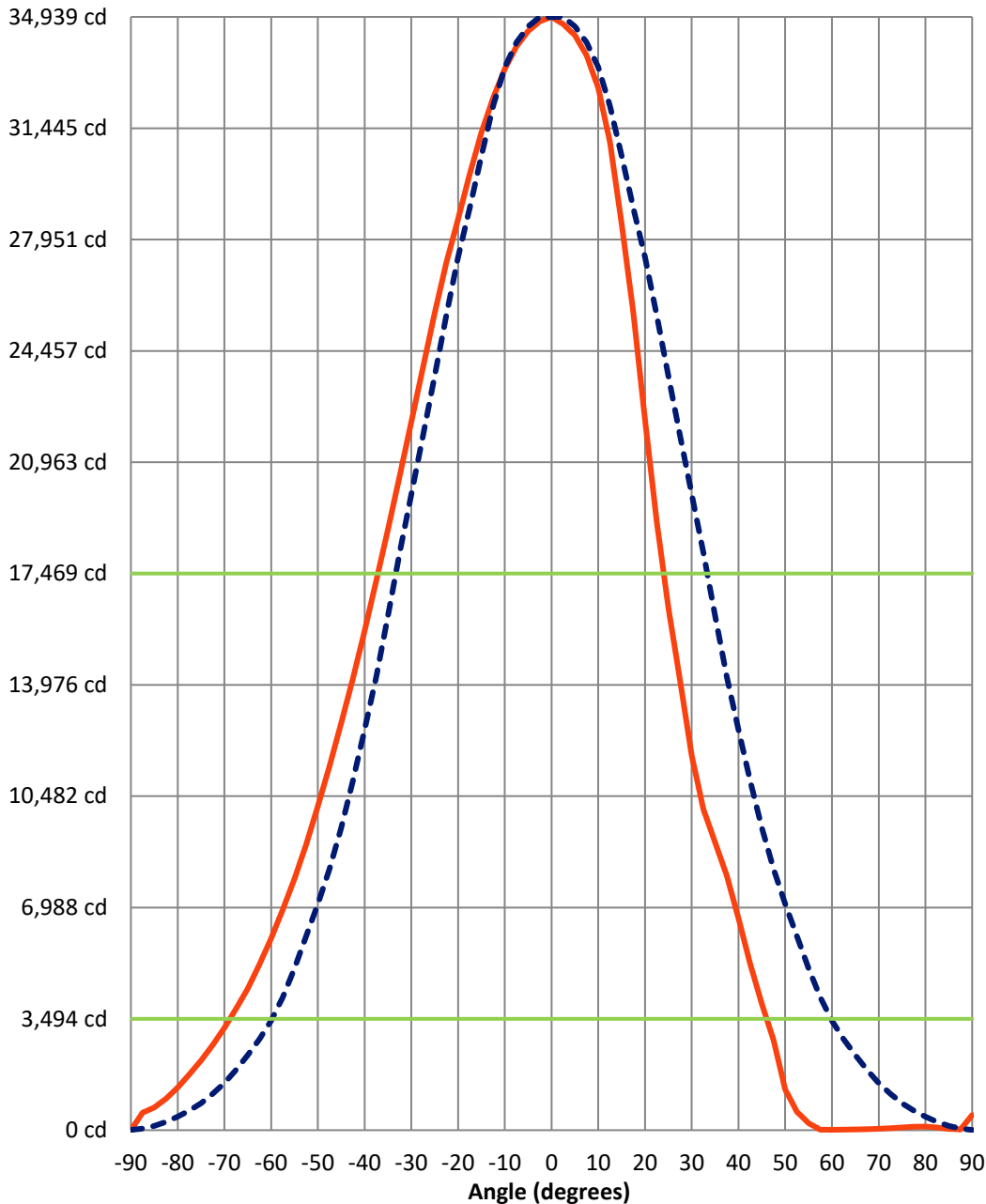
Luminous Intensity Polar Plot



— 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: 25237.2
 Efficiency: 54.3%

Field:
 H Angle: 119.6°
 V Angle: 114.9°
 Lumens: 43557.3
 Efficiency: 93.7%

Spill:
 Lumens: 2924.1
 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°	7.6	26.6	45.6	70.6	95.6	120.6	145.6	163.8	182.0	200.2	218.4
87.5°	7.6	9.7	11.1	12.0	12.8	13.4	13.8	13.8	13.6	13.2	12.7
85°	7.6	11.2	13.4	15.3	16.8	18.0	18.9	19.1	19.0	18.6	17.8
82.5°	7.6	12.7	15.8	18.6	20.9	22.7	24.0	24.5	24.9	26.7	28.1
80°	7.6	14.2	18.2	21.9	25.0	27.3	29.6	33.4	36.6	39.3	41.5
77.5°	7.6	15.7	20.6	25.2	29.0	33.9	39.4	44.1	48.4	52.0	53.7
75°	7.6	17.2	23.0	28.4	34.0	43.9	49.4	54.8	60.4	64.1	62.3
72.5°	7.6	18.7	25.4	31.7	43.5	54.1	59.6	66.8	74.9	76.6	71.9
70°	7.6	20.2	27.8	35.9	52.9	64.4	71.0	83.0	90.1	90.2	92.3
67.5°	7.6	21.6	30.3	43.9	62.5	74.9	88.3	99.7	106.4	115.6	116.3
65°	7.6	23.1	32.8	51.9	72.1	88.6	106.2	116.9	133.0	142.1	144.0
62.5°	7.6	24.5	35.2	59.8	81.8	105.7	124.5	140.9	160.4	171.4	178.7
60°	7.6	26.0	37.8	67.8	91.5	123.0	143.4	167.8	188.8	208.5	215.6
57.5°	7.6	27.4	43.5	75.7	106.4	140.6	169.4	195.8	224.5	247.2	258.8
55°	7.6	28.8	49.3	83.6	121.6	158.5	196.7	225.8	263.2	289.5	307.0
52.5°	7.6	30.2	54.9	91.4	136.9	177.6	224.5	263.5	303.1	339.5	358.8
50°	7.6	31.5	60.5	99.2	152.1	202.0	252.8	303.0	346.6	392.3	424.0
47.5°	7.6	32.9	65.9	107.9	167.4	226.5	282.6	343.3	397.5	447.7	496.0
45°	7.6	34.2	71.2	119.4	182.6	251.1	318.1	384.4	452.5	519.3	573.7
42.5°	7.6	35.4	76.4	130.8	197.9	275.8	354.0	430.9	509.4	595.2	678.3
40°	7.6	36.7	81.5	142.0	215.1	300.4	390.0	481.4	571.2	674.7	794.6
37.5°	7.6	37.9	86.4	152.9	234.3	325.0	426.1	532.7	640.4	759.7	919.1
35°	7.6	39.1	91.2	163.5	253.1	352.5	462.2	584.5	708.9	858.7	1057.9
32.5°	7.6	40.2	95.8	173.7	271.6	381.2	500.2	636.6	776.7	953.7	1180.2
30°	7.6	41.3	100.2	183.4	289.6	409.4	542.5	690.0	843.4	1044.6	1294.9
27.5°	7.6	42.3	104.4	192.8	306.0	437.0	584.3	745.6	913.3	1131.0	1401.8
25°	7.6	43.3	108.4	201.7	321.5	463.9	625.4	799.8	986.8	1219.3	1501.3
22.5°	7.6	44.3	112.2	210.1	336.3	488.8	665.7	852.3	1056.4	1304.5	1605.9
20°	7.6	45.2	115.8	217.9	350.1	509.4	704.8	902.9	1121.8	1382.9	1704.6
17.5°	7.6	46.0	119.1	225.3	363.0	528.5	735.5	951.5	1183.1	1454.8	1797.0
15°	7.6	46.8	122.2	232.1	375.0	546.0	759.4	992.3	1240.2	1520.0	1882.6
12.5°	7.6	47.5	125.0	238.3	385.9	561.9	780.5	1024.1	1290.4	1578.8	1961.2
10°	7.6	48.2	127.6	243.9	395.8	576.0	798.8	1053.7	1335.6	1647.9	2041.3
7.5°	7.6	48.7	129.8	248.8	404.6	588.5	814.4	1080.7	1377.4	1716.3	2132.5
5°	7.6	49.2	131.8	253.1	412.2	599.2	827.1	1104.7	1415.5	1780.8	2216.0
2.5°	7.6	49.7	133.4	256.8	418.7	608.0	837.2	1125.3	1449.2	1840.1	2291.1
0°	7.6	50.0	134.8	259.7	423.9	615.1	844.5	1142.2	1478.1	1893.2	2357.3
-2.5°	7.6	51.0	136.9	263.6	430.8	626.6	864.8	1170.3	1514.1	1930.4	2399.2
-5°	7.6	51.9	138.6	266.8	436.4	636.1	882.1	1194.0	1544.6	1960.2	2431.5
-7.5°	7.6	52.7	140.0	269.3	440.7	643.5	896.3	1213.1	1569.2	1982.7	2454.1
-10°	7.6	53.4	141.1	270.9	443.5	648.8	906.9	1227.4	1587.6	1998.0	2466.9
-12.5°	7.6	54.0	141.8	271.8	444.8	651.9	913.8	1236.7	1599.8	2006.5	2477.0
-15°	7.6	54.6	142.2	271.8	444.7	652.6	916.7	1240.8	1604.0	2010.1	2479.4
-17.5°	7.6	55.0	142.2	271.0	443.0	650.9	915.5	1237.9	1599.3	2004.8	2470.2
-20°	7.6	55.3	141.9	269.3	439.7	646.8	910.5	1228.8	1587.6	1990.5	2449.1



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-7F-VHE

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	7.6	55.6	141.2	266.8	434.8	640.1	902.5	1214.8	1568.7	1967.0	2415.9
-25°	7.6	55.7	140.1	263.4	428.3	633.5	890.9	1195.9	1542.4	1934.2	2370.5
-27.5°	7.6	55.8	138.7	259.2	420.2	625.4	875.8	1172.1	1508.7	1894.4	2326.0
-30°	7.6	55.7	137.0	254.1	410.8	614.5	857.2	1143.4	1473.3	1850.6	2270.9
-32.5°	7.6	55.5	134.9	248.1	402.1	600.9	835.1	1116.1	1435.4	1797.8	2204.8
-35°	7.6	55.3	132.5	241.3	391.7	584.6	814.5	1086.5	1391.9	1736.1	2127.7
-37.5°	7.6	54.9	129.7	233.6	379.6	567.1	792.5	1052.8	1343.0	1665.6	2047.7
-40°	7.6	54.4	126.6	225.1	365.8	550.3	766.9	1015.1	1288.7	1599.6	1963.5
-42.5°	7.6	53.9	123.1	216.3	353.0	531.1	737.7	973.5	1237.2	1534.1	1871.3
-45°	7.6	53.2	119.4	207.6	341.4	509.6	705.1	931.1	1185.1	1460.8	1773.8
-47.5°	7.6	52.4	115.3	198.0	328.5	485.9	669.1	888.5	1128.5	1379.8	1681.8
-50°	7.6	51.5	110.9	191.2	314.2	460.0	636.4	841.8	1065.2	1307.2	1580.7
-52.5°	7.6	50.6	106.2	184.9	298.7	432.0	602.0	791.0	1001.3	1228.3	1472.8
-55°	7.6	49.5	101.2	177.9	281.9	408.9	564.9	737.5	934.5	1143.2	1375.6
-57.5°	7.6	48.4	95.9	170.3	263.9	385.5	525.3	689.8	863.4	1059.0	1271.7
-60°	7.6	47.1	90.4	162.0	245.0	360.4	484.4	637.6	790.7	971.5	1164.7
-62.5°	7.6	45.8	87.6	153.0	232.0	333.9	451.1	582.0	724.9	879.4	1058.9
-65°	7.6	44.4	84.5	143.5	218.1	305.9	415.9	527.8	655.7	795.5	948.1
-67.5°	7.6	42.9	81.3	133.5	203.3	281.1	378.9	481.2	583.6	711.2	845.6
-70°	7.6	41.4	77.9	122.9	187.7	259.7	340.3	432.8	525.8	623.7	744.6
-72.5°	7.6	39.7	74.3	116.3	171.3	237.3	309.6	382.8	466.4	554.0	645.2
-75°	7.6	38.0	70.6	110.5	154.3	213.9	279.0	340.7	405.3	482.7	563.2
-77.5°	7.6	36.2	66.7	104.4	144.0	189.7	247.3	300.7	355.8	413.9	479.1
-80°	7.6	34.4	62.7	98.0	134.9	173.1	214.6	259.6	306.4	355.5	406.9
-82.5°	7.6	32.5	58.6	91.5	125.5	160.5	196.4	225.3	256.0	296.0	337.7
-85°	7.6	30.6	54.3	84.7	115.8	147.5	179.9	205.1	230.5	256.1	282.0
-87.5°	7.6	28.6	50.0	77.7	105.8	134.2	162.9	184.6	206.4	228.3	250.4
-90°	7.6	8.2	8.7	8.7	8.7	8.7	8.7	8.4	8.2	7.9	7.6



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	234.5	250.5	266.6	282.6	298.4	314.1	329.9	345.6	360.3	375.0	389.6
87.5°	13.0	13.3	13.6	13.9	13.3	12.7	11.9	11.1	12.0	13.0	14.1
85°	18.4	19.0	20.6	21.9	22.7	23.8	25.2	26.9	30.1	33.3	36.5
82.5°	30.6	32.7	34.1	35.0	38.0	41.8	45.8	49.5	53.1	56.5	59.8
80°	44.2	46.4	46.8	47.3	51.3	56.2	61.4	66.8	71.2	75.2	79.0
77.5°	54.2	55.4	56.8	58.5	63.6	70.7	77.9	85.1	90.4	94.7	98.5
75°	62.0	64.2	69.4	72.7	78.4	86.7	95.1	103.2	108.5	111.4	113.4
72.5°	74.7	82.2	86.8	88.6	94.2	104.0	112.8	120.7	124.8	124.2	121.6
70°	94.3	101.2	107.3	109.5	111.9	121.5	128.7	134.3	136.8	131.8	122.1
67.5°	115.3	126.1	131.6	131.9	128.4	136.7	143.2	142.4	138.0	127.3	114.5
65°	142.4	152.7	157.6	155.6	146.3	148.2	147.7	143.9	134.0	119.2	103.8
62.5°	172.9	182.0	185.8	180.7	163.8	156.5	152.4	142.5	127.3	112.9	98.4
60°	211.5	213.5	216.0	206.7	185.5	165.5	157.6	147.7	131.5	111.6	99.7
57.5°	254.8	247.8	249.0	238.6	214.2	178.4	174.9	162.3	148.6	122.4	110.2
55°	304.7	285.7	288.7	279.2	256.8	216.8	203.3	201.5	182.3	161.7	139.0
52.5°	364.7	338.7	338.1	336.6	324.5	290.1	259.0	280.6	292.7	269.7	284.3
50°	432.0	419.1	399.6	422.3	429.5	411.2	383.9	444.2	517.0	550.2	549.4
47.5°	521.4	513.8	497.0	538.0	589.2	636.1	647.4	756.5	866.6	988.4	1002.8
45°	626.7	646.1	636.6	723.6	833.3	959.6	1053.4	1159.2	1409.9	1555.3	1770.7
42.5°	743.6	800.2	851.6	933.9	1192.6	1353.4	1494.9	1760.4	2009.7	2220.6	2443.2
40°	894.1	968.4	1080.9	1304.6	1583.6	1769.6	2013.1	2315.7	2568.2	2806.3	3034.2
37.5°	1057.3	1181.4	1333.6	1654.3	1971.8	2204.9	2503.0	2803.1	3090.3	3357.4	3676.0
35°	1229.7	1395.1	1634.8	1969.9	2303.1	2627.6	2955.8	3290.1	3617.8	3983.8	4342.1
32.5°	1417.4	1609.0	1911.6	2267.4	2640.4	3017.4	3398.7	3789.0	4205.5	4632.2	5012.3
30°	1586.7	1847.3	2169.4	2555.3	2976.2	3409.3	3854.2	4303.4	4814.6	5319.8	5775.8
27.5°	1716.1	2065.6	2425.3	2851.8	3313.0	3795.9	4311.5	4868.0	5463.3	6042.3	6583.7
25°	1840.2	2233.5	2670.7	3148.2	3660.5	4203.6	4780.3	5403.2	6133.7	6812.2	7487.5
22.5°	1970.3	2402.8	2874.5	3437.1	3998.9	4616.9	5256.8	5973.7	6781.0	7583.1	8403.8
20°	2108.6	2577.9	3075.7	3668.9	4315.4	5024.1	5705.2	6539.7	7437.7	8369.9	9370.9
17.5°	2243.5	2738.9	3270.6	3895.9	4596.6	5390.4	6137.7	7087.6	8082.7	9148.9	10281.0
15°	2373.4	2885.6	3448.4	4104.6	4868.6	5711.3	6585.2	7626.1	8739.0	9916.1	11105.0
12.5°	2496.9	3018.0	3608.8	4294.1	5122.6	6023.1	6985.8	8080.5	9299.5	10600.5	11896.5
10°	2612.4	3136.2	3751.2	4463.4	5355.6	6320.5	7342.4	8486.7	9754.2	11094.7	12540.1
7.5°	2699.9	3234.4	3876.8	4611.6	5564.4	6597.5	7654.5	8842.7	10138.5	11534.6	13088.5
5°	2767.0	3314.2	3993.0	4782.7	5765.1	6826.8	7911.2	9146.2	10453.5	11913.1	13561.8
2.5°	2817.9	3381.5	4092.5	4941.6	5944.7	6983.0	8078.6	9345.4	10736.8	12266.6	13946.6
0°	2855.1	3435.4	4173.4	5077.6	6090.5	7098.0	8202.2	9490.0	10967.0	12565.7	14230.7
-2.5°	2918.2	3530.9	4286.5	5185.3	6181.5	7210.5	8361.4	9691.4	11185.4	12754.4	14475.6
-5°	2968.7	3609.5	4377.9	5266.3	6240.8	7284.2	8471.1	9831.5	11328.3	12881.5	14602.1
-7.5°	3005.3	3669.0	4446.6	5320.1	6280.3	7343.7	8547.8	9901.2	11381.8	12957.3	14621.9
-10°	3026.9	3697.1	4468.2	5336.0	6301.7	7375.8	8577.2	9911.4	11365.8	12939.5	14567.8
-12.5°	3035.1	3696.5	4461.5	5323.0	6285.3	7360.5	8553.9	9863.1	11282.0	12824.6	14429.7
-15°	3029.7	3677.5	4430.5	5280.8	6229.9	7296.0	8477.4	9757.3	11126.4	12590.3	14150.3
-17.5°	3010.7	3640.2	4374.7	5209.0	6134.7	7180.9	8340.9	9561.7	10903.0	12319.9	13795.2
-20°	2978.2	3584.4	4294.0	5107.7	6004.8	7029.8	8148.2	9330.0	10618.3	11997.1	13397.5



REPORT NUMBER: P731329 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-7F-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2932.1	3510.3	4199.7	4993.6	5880.2	6858.1	7918.0	9051.1	10255.6	11612.0	12946.6
-25°	2879.2	3444.8	4101.0	4869.4	5722.6	6657.0	7648.5	8732.0	9868.8	11138.2	12430.1
-27.5°	2818.9	3365.3	3995.9	4720.4	5529.3	6433.5	7381.5	8398.5	9475.0	10616.3	11855.0
-30°	2744.3	3274.9	3870.0	4557.2	5333.4	6190.1	7101.7	8021.1	9040.7	10116.8	11252.2
-32.5°	2655.8	3165.8	3744.4	4398.9	5120.3	5908.5	6775.2	7649.4	8590.2	9586.1	10638.3
-35°	2561.1	3054.9	3604.5	4218.5	4886.4	5625.1	6416.6	7248.2	8113.4	9049.3	9974.9
-37.5°	2465.9	2928.2	3441.0	4027.6	4667.3	5323.6	6035.5	6826.6	7637.4	8464.8	9314.9
-40°	2358.7	2785.8	3278.4	3825.3	4404.5	5013.5	5680.5	6386.6	7140.5	7887.0	8648.9
-42.5°	2241.9	2654.5	3106.1	3594.1	4136.2	4702.8	5301.3	5962.1	6619.1	7297.1	8000.6
-45°	2131.1	2511.0	2922.7	3376.2	3855.4	4379.4	4938.0	5515.6	6107.0	6706.2	7346.6
-47.5°	2012.0	2362.1	2749.8	3142.9	3583.2	4057.4	4559.8	5079.5	5591.8	6141.2	6688.5
-50°	1888.0	2222.2	2556.3	2921.7	3312.7	3738.3	4194.0	4642.1	5110.6	5586.3	6079.7
-52.5°	1763.6	2074.0	2376.7	2696.5	3050.2	3428.1	3825.1	4225.6	4641.9	5060.6	5483.5
-55°	1629.3	1917.3	2191.9	2480.9	2791.0	3129.6	3465.8	3826.0	4186.8	4570.0	4917.5
-57.5°	1502.3	1747.9	2002.1	2266.0	2543.6	2831.9	3130.4	3431.8	3760.2	4090.6	4388.3
-60°	1377.1	1584.9	1806.8	2048.2	2296.7	2552.0	2799.3	3068.3	3346.2	3616.8	3889.2
-62.5°	1247.2	1431.2	1620.9	1825.7	2051.8	2271.8	2495.1	2721.7	2948.0	3188.1	3418.4
-65°	1119.0	1276.0	1444.2	1621.7	1803.4	2002.2	2198.5	2389.9	2592.1	2788.5	2979.3
-67.5°	985.2	1128.9	1272.9	1420.8	1583.4	1745.6	1908.9	2084.8	2255.5	2416.1	2577.8
-70°	865.5	981.2	1108.8	1239.3	1368.6	1501.7	1646.7	1792.0	1934.7	2071.5	2211.6
-72.5°	746.7	850.5	954.7	1059.2	1171.6	1283.7	1396.9	1510.9	1630.2	1749.6	1865.6
-75°	640.7	718.6	809.1	901.3	989.1	1074.8	1162.4	1259.3	1354.7	1448.4	1541.1
-77.5°	544.2	609.8	677.7	747.7	814.5	886.3	958.4	1030.7	1101.8	1171.5	1239.7
-80°	453.3	499.4	554.1	610.7	663.8	716.1	768.4	820.6	873.3	928.5	985.4
-82.5°	375.2	412.8	450.8	489.2	524.4	558.9	594.5	635.3	677.0	718.4	759.3
-85°	303.8	325.4	354.6	384.1	412.2	440.0	467.4	494.4	522.1	549.4	576.3
-87.5°	269.3	288.1	306.8	325.4	343.3	361.1	378.7	396.1	414.0	431.8	449.6
-90°	7.6	7.6	7.6	7.6	7.3	7.1	6.8	6.5	6.2	6.0	5.7



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	404.3	408.9	413.6	418.2	422.8	433.7	444.5	455.4	466.2	468.7	471.1
87.5°	15.2	15.2	15.2	15.2	15.2	17.6	20.1	22.7	25.3	25.0	24.7
85°	39.5	40.1	40.3	40.4	40.1	43.5	46.9	50.2	53.3	51.2	48.7
82.5°	63.0	64.1	65.2	66.3	67.5	71.0	74.4	77.7	80.7	81.7	82.7
80°	82.4	84.6	86.2	87.4	88.3	91.3	94.4	97.5	100.3	103.4	106.5
77.5°	101.3	101.9	101.6	100.6	99.0	99.4	100.1	100.5	100.5	102.1	103.9
75°	114.3	112.8	108.4	103.2	97.4	93.9	91.3	88.5	85.7	85.2	85.4
72.5°	117.2	111.3	103.9	94.8	85.7	79.5	75.3	71.2	67.3	65.4	64.3
70°	111.0	99.6	89.7	79.9	70.3	63.3	59.0	55.2	51.7	49.4	47.8
67.5°	99.9	85.9	75.5	65.4	56.1	48.8	45.1	41.7	38.6	36.3	34.7
65°	88.8	73.8	63.7	54.0	44.6	37.4	34.6	31.8	29.1	27.0	25.9
62.5°	82.5	66.8	56.4	47.9	39.4	31.0	28.1	25.3	22.4	20.2	19.3
60°	84.7	66.9	54.2	46.4	37.6	27.9	24.3	21.7	18.7	16.1	15.2
57.5°	98.0	78.5	59.6	56.6	47.6	33.4	34.7	40.4	36.1	24.9	23.7
55°	149.9	145.1	95.0	122.9	142.9	134.6	125.7	166.4	186.3	187.3	205.7
52.5°	297.9	333.1	320.0	335.2	417.8	451.3	446.9	519.7	557.5	552.3	572.0
50°	627.3	699.2	787.8	802.1	940.8	1036.9	1060.1	1144.4	1238.0	1273.9	1314.2
47.5°	1224.2	1392.9	1478.4	1574.9	1734.5	1909.4	2044.8	2166.1	2297.6	2387.5	2496.0
45°	1994.1	2113.3	2262.2	2486.4	2730.0	2958.1	3172.4	3367.7	3496.6	3611.4	3733.4
42.5°	2627.6	2817.9	3067.7	3402.0	3748.6	3982.8	4159.1	4347.3	4548.6	4739.9	4916.3
40°	3276.2	3496.8	3893.0	4271.9	4530.5	4756.5	4997.9	5253.3	5516.4	5767.4	6017.0
37.5°	3971.3	4297.3	4644.3	4975.4	5249.1	5462.9	5793.6	6076.6	6340.2	6714.0	7056.8
35°	4710.9	5065.2	5363.4	5742.2	6048.1	6311.8	6657.9	7014.3	7242.5	7755.2	8199.0
32.5°	5446.8	5859.7	6257.3	6617.0	6996.6	7403.3	7740.1	8229.0	8600.8	9091.2	9573.3
30°	6213.5	6779.6	7275.9	7670.6	8187.7	8713.5	9186.1	9761.7	10309.9	10766.3	11277.3
27.5°	7181.1	7810.5	8415.7	9023.9	9576.4	10232.9	10985.2	11594.2	12296.0	12793.5	13327.9
25°	8207.6	8957.5	9762.3	10546.4	11271.1	12120.5	12973.4	13717.4	14444.7	15018.1	15589.1
22.5°	9323.9	10230.6	11188.6	12175.6	13155.3	14085.8	15001.3	15922.0	16760.5	17548.5	18097.5
20°	10457.6	11464.4	12627.8	13817.0	14945.1	15995.4	17095.5	18259.8	19325.2	20238.4	20914.8
17.5°	11480.2	12743.2	14022.7	15327.5	16599.7	17897.7	19262.7	20632.1	21893.5	22963.0	23861.0
15°	12401.5	13832.4	15313.7	16785.8	18248.8	19743.3	21338.3	22813.7	24227.5	25454.2	26503.9
12.5°	13310.0	14838.3	16426.2	18076.7	19811.2	21429.4	23053.2	24644.1	26125.8	27551.7	28603.4
10°	14114.0	15764.3	17464.2	19232.9	21029.3	22784.9	24496.5	26154.9	27610.7	28957.1	30229.4
7.5°	14769.1	16539.0	18353.4	20213.7	22062.5	23840.2	25583.5	27240.7	28718.4	30098.1	31399.1
5°	15334.2	17211.3	19083.9	20937.7	22798.0	24641.9	26401.9	28036.0	29575.1	31008.9	32312.8
2.5°	15795.3	17752.6	19649.9	21475.8	23328.6	25216.0	27020.4	28599.2	30208.0	31666.3	32949.7
0°	16141.3	18117.1	19953.9	21796.0	23671.8	25580.3	27395.3	28941.8	30579.6	32138.1	33358.6
-2.5°	16330.6	18190.4	20018.6	21866.8	23799.2	25762.3	27574.7	29241.7	30870.1	32331.0	33465.7
-5°	16396.3	18225.8	20047.5	21929.0	23844.7	25776.9	27583.2	29254.5	30818.3	32184.8	33219.7
-7.5°	16352.2	18163.7	19967.1	21830.2	23733.6	25642.9	27420.1	29018.8	30524.7	31819.0	32806.5
-10°	16219.0	17973.3	19777.3	21609.7	23517.2	25402.2	27143.8	28586.1	30024.0	31238.2	32172.0
-12.5°	15998.9	17678.5	19457.6	21249.5	23121.0	24932.9	26555.9	27991.9	29276.7	30506.6	31323.9
-15°	15686.5	17305.9	19006.8	20761.5	22534.6	24287.4	25869.9	27258.0	28448.2	29418.4	30279.2
-17.5°	15294.8	16857.3	18487.2	20168.6	21815.1	23482.7	24949.2	26340.2	27485.2	28348.9	29016.8
-20°	14812.6	16329.0	17887.7	19493.0	21022.8	22441.0	23854.8	25148.2	26280.0	27124.5	27766.4



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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°	14303.6	15734.2	17211.0	18658.4	20051.5	21384.8	22665.2	23852.3	24928.4	25726.9	26341.3
-25°	13724.5	15062.4	16427.8	17735.0	19007.4	20248.7	21409.3	22509.2	23448.6	24225.4	24795.8
-27.5°	13090.2	14336.0	15568.4	16784.1	17964.6	19037.7	20105.6	21098.5	21924.6	22639.0	23144.1
-30°	12397.2	13536.4	14691.4	15831.1	16852.2	17818.9	18767.7	19629.6	20386.8	21014.1	21467.1
-32.5°	11666.2	12707.1	13778.3	14808.8	15704.3	16576.4	17403.8	18159.4	18853.7	19408.0	19816.5
-35°	10910.5	11874.8	12836.9	13727.8	14562.5	15338.3	16051.2	16720.9	17296.1	17801.3	18201.8
-37.5°	10167.2	11035.8	11870.7	12648.6	13419.9	14131.3	14754.0	15341.6	15864.6	16285.9	16637.1
-40°	9438.1	10207.0	10917.8	11610.3	12299.4	12901.7	13467.1	13973.9	14436.7	14839.3	15151.2
-42.5°	8713.5	9375.5	9989.1	10612.2	11208.0	11730.3	12222.7	12661.7	13063.3	13424.1	13726.6
-45°	7986.2	8552.4	9098.4	9646.3	10141.0	10606.2	11034.2	11419.9	11778.7	12082.5	12330.5
-47.5°	7243.3	7745.6	8241.6	8716.4	9126.8	9528.8	9897.2	10243.7	10567.1	10840.2	11059.3
-50°	6534.0	6978.0	7422.2	7814.6	8159.7	8494.4	8806.1	9140.7	9440.0	9688.9	9870.0
-52.5°	5868.1	6269.5	6651.3	6972.8	7264.4	7525.8	7765.3	8076.1	8357.8	8602.2	8762.8
-55°	5261.6	5605.2	5932.5	6198.1	6441.6	6659.6	6877.0	7126.7	7354.2	7557.6	7691.8
-57.5°	4690.8	4982.0	5254.3	5477.9	5681.0	5863.3	6065.1	6274.0	6460.4	6621.0	6729.0
-60°	4149.6	4397.5	4623.3	4807.2	4976.0	5129.5	5321.6	5503.8	5665.0	5796.0	5876.6
-62.5°	3639.0	3861.4	4037.0	4184.9	4319.7	4449.0	4616.8	4774.3	4919.7	5035.8	5103.4
-65°	3171.6	3366.3	3496.8	3613.9	3720.2	3836.6	3979.3	4107.4	4221.0	4307.2	4366.0
-67.5°	2745.5	2899.5	3002.4	3095.4	3186.5	3286.2	3407.3	3519.1	3621.3	3692.3	3736.2
-70°	2348.5	2467.3	2550.7	2629.8	2705.8	2791.2	2890.5	2982.9	3068.2	3123.4	3158.4
-72.5°	1978.2	2068.7	2137.6	2205.7	2267.0	2340.3	2421.2	2497.0	2567.4	2608.9	2635.5
-75°	1632.7	1702.1	1758.5	1810.8	1858.7	1920.3	1985.9	2047.4	2104.7	2136.3	2156.8
-77.5°	1312.3	1365.4	1407.9	1446.8	1482.1	1531.0	1581.5	1628.9	1673.0	1701.2	1723.9
-80°	1041.0	1073.1	1099.2	1123.6	1146.0	1182.5	1219.5	1254.4	1287.1	1305.5	1320.1
-82.5°	799.6	819.1	834.7	848.3	860.1	885.5	910.9	934.9	957.5	969.4	979.5
-85°	602.7	613.2	622.1	629.9	636.8	654.5	672.0	688.9	705.2	708.6	711.0
-87.5°	467.4	473.1	478.5	483.7	488.7	501.8	514.9	527.9	540.7	542.9	545.0
-90°	5.4	5.1	4.9	4.6	4.3	4.1	3.8	3.6	3.3	3.0	2.8



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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°	473.6	476.0	474.4	472.8	474.4	476.0	473.6	471.1	468.7	466.2	455.4
87.5°	24.3	23.8	23.9	23.9	23.9	23.8	24.3	24.7	25.0	25.3	22.7
85°	46.1	43.4	41.3	39.1	41.3	43.4	46.1	48.7	51.2	53.3	50.2
82.5°	83.5	84.3	84.1	83.7	84.1	84.3	83.5	82.7	81.7	80.7	77.7
80°	109.5	112.5	113.4	114.1	113.4	112.5	109.5	106.5	103.4	100.3	97.5
77.5°	105.8	107.6	108.2	108.7	108.2	107.6	105.8	103.9	102.1	100.5	100.5
75°	85.8	86.3	86.0	85.9	86.0	86.3	85.8	85.4	85.2	85.7	88.5
72.5°	63.3	62.6	62.1	61.9	62.1	62.6	63.3	64.3	65.4	67.3	71.2
70°	46.4	45.2	44.2	43.5	44.2	45.2	46.4	47.8	49.4	51.7	55.2
67.5°	33.2	32.1	31.1	30.4	31.1	32.1	33.2	34.7	36.3	38.6	41.7
65°	25.0	24.3	23.5	22.8	23.5	24.3	25.0	25.9	27.0	29.1	31.8
62.5°	18.4	17.8	17.5	17.4	17.5	17.8	18.4	19.3	20.2	22.4	25.3
60°	14.3	13.4	13.1	13.0	13.1	13.4	14.3	15.2	16.1	18.7	21.7
57.5°	21.4	18.3	16.5	15.2	16.5	18.3	21.4	23.7	24.9	36.1	40.4
55°	215.5	216.2	220.5	225.0	220.5	216.2	215.5	205.7	187.3	186.3	166.4
52.5°	587.1	585.2	579.9	569.5	579.9	585.2	587.1	572.0	552.3	557.5	519.7
50°	1338.4	1319.5	1278.5	1220.5	1278.5	1319.5	1338.4	1314.2	1273.9	1238.0	1144.4
47.5°	2642.1	2751.4	2827.0	2860.5	2827.0	2751.4	2642.1	2496.0	2387.5	2297.6	2166.1
45°	3860.3	3925.1	3962.9	3992.9	3962.9	3925.1	3860.3	3733.4	3611.4	3496.6	3367.7
42.5°	5066.4	5169.1	5219.8	5211.3	5219.8	5169.1	5066.4	4916.3	4739.9	4548.6	4347.3
40°	6256.8	6471.9	6648.4	6775.2	6648.4	6471.9	6256.8	6017.0	5767.4	5516.4	5253.3
37.5°	7395.8	7716.1	7986.6	8182.6	7986.6	7716.1	7395.8	7056.8	6714.0	6340.2	6076.6
35°	8562.1	8844.5	9029.9	9110.7	9029.9	8844.5	8562.1	8199.0	7755.2	7242.5	7014.3
32.5°	9880.7	10037.6	10070.9	10155.2	10070.9	10037.6	9880.7	9573.3	9091.2	8600.8	8229.0
30°	11588.4	11751.5	11755.5	11861.5	11755.5	11751.5	11588.4	11277.3	10766.3	10309.9	9761.7
27.5°	13749.2	14023.9	14113.0	14206.8	14113.0	14023.9	13749.2	13327.9	12793.5	12296.0	11594.2
25°	16062.9	16319.0	16401.0	16369.6	16401.0	16319.0	16062.9	15589.1	15018.1	14444.7	13717.4
22.5°	18659.9	18991.9	19112.7	19051.8	19112.7	18991.9	18659.9	18097.5	17548.5	16760.5	15922.0
20°	21566.6	22045.8	22299.0	22413.3	22299.0	22045.8	21566.6	20914.8	20238.4	19325.2	18259.8
17.5°	24626.0	25332.2	25656.4	25752.0	25656.4	25332.2	24626.0	23861.0	22963.0	21893.5	20632.1
15°	27409.3	28025.9	28446.3	28662.5	28446.3	28025.9	27409.3	26503.9	25454.2	24227.5	22813.7
12.5°	29561.4	30347.2	31002.2	31353.4	31002.2	30347.2	29561.4	28603.4	27551.7	26125.8	24644.1
10°	31315.7	32109.1	32704.7	32993.4	32704.7	32109.1	31315.7	30229.4	28957.1	27610.7	26154.9
7.5°	32529.4	33266.8	33729.2	33918.3	33729.2	33266.8	32529.4	31399.1	30098.1	28718.4	27240.7
5°	33313.9	34019.0	34360.7	34483.4	34360.7	34019.0	33313.9	32312.8	31008.9	29575.1	28036.0
2.5°	33878.8	34436.6	34710.3	34728.0	34710.3	34436.6	33878.8	32949.7	31666.3	30208.0	28599.2
0°	34136.7	34638.9	34938.8	34933.4	34938.8	34638.9	34136.7	33358.6	32138.1	30579.6	28941.8
-2.5°	34149.2	34586.1	34799.2	34679.1	34799.2	34586.1	34149.2	33465.7	32331.0	30870.1	29241.7
-5°	33905.7	34333.2	34493.0	34456.3	34493.0	34333.2	33905.7	33219.7	32184.8	30818.3	29254.5
-7.5°	33468.4	33847.8	34010.9	34016.1	34010.9	33847.8	33468.4	32806.5	31819.0	30524.7	29018.8
-10°	32801.6	33118.6	33305.3	33252.1	33305.3	33118.6	32801.6	32172.0	31238.2	30024.0	28586.1
-12.5°	31919.5	32232.3	32390.8	32358.7	32390.8	32232.3	31919.5	31323.9	30506.6	29276.7	27991.9
-15°	30864.3	31161.6	31310.1	31295.8	31310.1	31161.6	30864.3	30279.2	29418.4	28448.2	27258.0
-17.5°	29557.9	29856.0	30007.9	30028.6	30007.9	29856.0	29557.9	29016.8	28348.9	27485.2	26340.2
-20°	28188.9	28451.7	28590.9	28592.9	28590.9	28451.7	28188.9	27766.4	27124.5	26280.0	25148.2



REPORT NUMBER: P731329 (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°	26769.7	27064.9	27230.0	27205.1	27230.0	27064.9	26769.7	26341.3	25726.9	24928.4	23852.3
-25°	25187.9	25483.7	25644.3	25637.9	25644.3	25483.7	25187.9	24795.8	24225.4	23448.6	22509.2
-27.5°	23499.2	23783.5	23938.5	23957.7	23938.5	23783.5	23499.2	23144.1	22639.0	21924.6	21098.5
-30°	21798.1	22078.4	22230.2	22242.7	22230.2	22078.4	21798.1	21467.1	21014.1	20386.8	19629.6
-32.5°	20131.3	20384.5	20524.7	20539.6	20524.7	20384.5	20131.3	19816.5	19408.0	18853.7	18159.4
-35°	18505.2	18727.6	18853.4	18894.2	18853.4	18727.6	18505.2	18201.8	17801.3	17296.1	16720.9
-37.5°	16922.5	17123.5	17245.1	17319.4	17245.1	17123.5	16922.5	16637.1	16285.9	15864.6	15341.6
-40°	15393.8	15570.0	15666.8	15668.6	15666.8	15570.0	15393.8	15151.2	14839.3	14436.7	13973.9
-42.5°	13950.7	14098.9	14173.1	14174.2	14173.1	14098.9	13950.7	13726.6	13424.1	13063.3	12661.7
-45°	12530.2	12675.3	12778.0	12842.9	12778.0	12675.3	12530.2	12330.5	12082.5	11778.7	11419.9
-47.5°	11226.4	11345.4	11426.9	11471.3	11426.9	11345.4	11226.4	11059.3	10840.2	10567.1	10243.7
-50°	10002.7	10097.7	10167.3	10208.4	10167.3	10097.7	10002.7	9870.0	9688.9	9440.0	9140.7
-52.5°	8871.7	8941.1	8966.0	8949.9	8966.0	8941.1	8871.7	8762.8	8602.2	8357.8	8076.1
-55°	7792.3	7861.5	7889.2	7879.4	7889.2	7861.5	7792.3	7691.8	7557.6	7354.2	7126.7
-57.5°	6814.1	6875.4	6924.5	6954.5	6924.5	6875.4	6814.1	6729.0	6621.0	6460.4	6274.0
-60°	5940.2	5985.5	6016.4	6028.5	6016.4	5985.5	5940.2	5876.6	5796.0	5665.0	5503.8
-62.5°	5150.8	5179.0	5201.0	5210.2	5201.0	5179.0	5150.8	5103.4	5035.8	4919.7	4774.3
-65°	4412.8	4447.3	4443.1	4419.0	4443.1	4447.3	4412.8	4366.0	4307.2	4221.0	4107.4
-67.5°	3769.4	3791.8	3811.1	3821.2	3811.1	3791.8	3769.4	3736.2	3692.3	3621.3	3519.1
-70°	3185.1	3203.5	3210.3	3208.3	3210.3	3203.5	3185.1	3158.4	3123.4	3068.2	2982.9
-72.5°	2655.6	2669.1	2671.7	2667.0	2671.7	2669.1	2655.6	2635.5	2608.9	2567.4	2497.0
-75°	2171.3	2180.3	2184.8	2184.5	2184.8	2180.3	2171.3	2156.8	2136.3	2104.7	2047.4
-77.5°	1742.7	1757.8	1751.4	1740.0	1751.4	1757.8	1742.7	1723.9	1701.2	1673.0	1628.9
-80°	1332.0	1341.2	1336.1	1328.1	1336.1	1341.2	1332.0	1320.1	1305.5	1287.1	1254.4
-82.5°	988.2	995.5	987.2	977.0	987.2	995.5	988.2	979.5	969.4	957.5	934.9
-85°	712.8	713.8	713.2	711.9	713.2	713.8	712.8	711.0	708.6	705.2	688.9
-87.5°	546.8	548.5	547.1	545.6	547.1	548.5	546.8	545.0	542.9	540.7	527.9
-90°	2.5	2.2	2.8	3.3	2.8	2.2	2.5	2.8	3.0	3.3	3.6



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	444.5	433.7	422.8	418.2	413.6	408.9	404.3	389.6	375.0	360.3	345.6
87.5°	20.1	17.6	15.2	15.2	15.2	15.2	15.2	14.1	13.0	12.0	11.1
85°	46.9	43.5	40.1	40.4	40.3	40.1	39.5	36.5	33.3	30.1	26.9
82.5°	74.4	71.0	67.5	66.3	65.2	64.1	63.0	59.8	56.5	53.1	49.5
80°	94.4	91.3	88.3	87.4	86.2	84.6	82.4	79.0	75.2	71.2	66.8
77.5°	100.1	99.4	99.0	100.6	101.6	101.9	101.3	98.5	94.7	90.4	85.1
75°	91.3	93.9	97.4	103.2	108.4	112.8	114.3	113.4	111.4	108.5	103.2
72.5°	75.3	79.5	85.7	94.8	103.9	111.3	117.2	121.6	124.2	124.8	120.7
70°	59.0	63.3	70.3	79.9	89.7	99.6	111.0	122.1	131.8	136.8	134.3
67.5°	45.1	48.8	56.1	65.4	75.5	85.9	99.9	114.5	127.3	138.0	142.4
65°	34.6	37.4	44.6	54.0	63.7	73.8	88.8	103.8	119.2	134.0	143.9
62.5°	28.1	31.0	39.4	47.9	56.4	66.8	82.5	98.4	112.9	127.3	142.5
60°	24.3	27.9	37.6	46.4	54.2	66.9	84.7	99.7	111.6	131.5	147.7
57.5°	34.7	33.4	47.6	56.6	59.6	78.5	98.0	110.2	122.4	148.6	162.3
55°	125.7	134.6	142.9	122.9	95.0	145.1	149.9	139.0	161.7	182.3	201.5
52.5°	446.9	451.3	417.8	335.2	320.0	333.1	297.9	284.3	269.7	292.7	280.6
50°	1060.1	1036.9	940.8	802.1	787.8	699.2	627.3	549.4	550.2	517.0	444.2
47.5°	2044.8	1909.4	1734.5	1574.9	1478.4	1392.9	1224.2	1002.8	988.4	866.6	756.5
45°	3172.4	2958.1	2730.0	2486.4	2262.2	2113.3	1994.1	1770.7	1555.3	1409.9	1159.2
42.5°	4159.1	3982.8	3748.6	3402.0	3067.7	2817.9	2627.6	2443.2	2220.6	2009.7	1760.4
40°	4997.9	4756.5	4530.5	4271.9	3893.0	3496.8	3276.2	3034.2	2806.3	2568.2	2315.7
37.5°	5793.6	5462.9	5249.1	4975.4	4644.3	4297.3	3971.3	3676.0	3357.4	3090.3	2803.1
35°	6657.9	6311.8	6048.1	5742.2	5363.4	5065.2	4710.9	4342.1	3983.8	3617.8	3290.1
32.5°	7740.1	7403.3	6996.6	6617.0	6257.3	5859.7	5446.8	5012.3	4632.2	4205.5	3789.0
30°	9186.1	8713.5	8187.7	7670.6	7275.9	6779.6	6213.5	5775.8	5319.8	4814.6	4303.4
27.5°	10985.2	10232.9	9576.4	9023.9	8415.7	7810.5	7181.1	6583.7	6042.3	5463.3	4868.0
25°	12973.4	12120.5	11271.1	10546.4	9762.3	8957.5	8207.6	7487.5	6812.2	6133.7	5403.2
22.5°	15001.3	14085.8	13155.3	12175.6	11188.6	10230.6	9323.9	8403.8	7583.1	6781.0	5973.7
20°	17095.5	15995.4	14945.1	13817.0	12627.8	11464.4	10457.6	9370.9	8369.9	7437.7	6539.7
17.5°	19262.7	17897.7	16599.7	15327.5	14022.7	12743.2	11480.2	10281.0	9148.9	8082.7	7087.6
15°	21338.3	19743.3	18248.8	16785.8	15313.7	13832.4	12401.5	11105.0	9916.1	8739.0	7626.1
12.5°	23053.2	21429.4	19811.2	18076.7	16426.2	14838.3	13310.0	11896.5	10600.5	9299.5	8080.5
10°	24496.5	22784.9	21029.3	19232.9	17464.2	15764.3	14114.0	12540.1	11094.7	9754.2	8486.7
7.5°	25583.5	23840.2	22062.5	20213.7	18353.4	16539.0	14769.1	13088.5	11534.6	10138.5	8842.7
5°	26401.9	24641.9	22798.0	20937.7	19083.9	17211.3	15334.2	13561.8	11913.1	10453.5	9146.2
2.5°	27020.4	25216.0	23328.6	21475.8	19649.9	17752.6	15795.3	13946.6	12266.6	10736.8	9345.4
0°	27395.3	25580.3	23671.8	21796.0	19953.9	18117.1	16141.3	14230.7	12565.7	10967.0	9490.0
-2.5°	27574.7	25762.3	23799.2	21866.8	20018.6	18190.4	16330.6	14475.6	12754.4	11185.4	9691.4
-5°	27583.2	25776.9	23844.7	21929.0	20047.5	18225.8	16396.3	14602.1	12881.5	11328.3	9831.5
-7.5°	27420.1	25642.9	23733.6	21830.2	19967.1	18163.7	16352.2	14621.9	12957.3	11381.8	9901.2
-10°	27143.8	25402.2	23517.2	21609.7	19777.3	17973.3	16219.0	14567.8	12939.5	11365.8	9911.4
-12.5°	26555.9	24932.9	23121.0	21249.5	19457.6	17678.5	15998.9	14429.7	12824.6	11282.0	9863.1
-15°	25869.9	24287.4	22534.6	20761.5	19006.8	17305.9	15686.5	14150.3	12590.3	11126.4	9757.3
-17.5°	24949.2	23482.7	21815.1	20168.6	18487.2	16857.3	15294.8	13795.2	12319.9	10903.0	9561.7
-20°	23854.8	22441.0	21022.8	19493.0	17887.7	16329.0	14812.6	13397.5	11997.1	10618.3	9330.0



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-7F-VHE

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	22665.2	21384.8	20051.5	18658.4	17211.0	15734.2	14303.6	12946.6	11612.0	10255.6	9051.1
-25°	21409.3	20248.7	19007.4	17735.0	16427.8	15062.4	13724.5	12430.1	11138.2	9868.8	8732.0
-27.5°	20105.6	19037.7	17964.6	16784.1	15568.4	14336.0	13090.2	11855.0	10616.3	9475.0	8398.5
-30°	18767.7	17818.9	16852.2	15831.1	14691.4	13536.4	12397.2	11252.2	10116.8	9040.7	8021.1
-32.5°	17403.8	16576.4	15704.3	14808.8	13778.3	12707.1	11666.2	10638.3	9586.1	8590.2	7649.4
-35°	16051.2	15338.3	14562.5	13727.8	12836.9	11874.8	10910.5	9974.9	9049.3	8113.4	7248.2
-37.5°	14754.0	14131.3	13419.9	12648.6	11870.7	11035.8	10167.2	9314.9	8464.8	7637.4	6826.6
-40°	13467.1	12901.7	12299.4	11610.3	10917.8	10207.0	9438.1	8648.9	7887.0	7140.5	6386.6
-42.5°	12222.7	11730.3	11208.0	10612.2	9989.1	9375.5	8713.5	8000.6	7297.1	6619.1	5962.1
-45°	11034.2	10606.2	10141.0	9646.3	9098.4	8552.4	7986.2	7346.6	6706.2	6107.0	5515.6
-47.5°	9897.2	9528.8	9126.8	8716.4	8241.6	7745.6	7243.3	6688.5	6141.2	5591.8	5079.5
-50°	8806.1	8494.4	8159.7	7814.6	7422.2	6978.0	6534.0	6079.7	5586.3	5110.6	4642.1
-52.5°	7765.3	7525.8	7264.4	6972.8	6651.3	6269.5	5868.1	5483.5	5060.6	4641.9	4225.6
-55°	6877.0	6659.6	6441.6	6198.1	5932.5	5605.2	5261.6	4917.5	4570.0	4186.8	3826.0
-57.5°	6065.1	5863.3	5681.0	5477.9	5254.3	4982.0	4690.8	4388.3	4090.6	3760.2	3431.8
-60°	5321.6	5129.5	4976.0	4807.2	4623.3	4397.5	4149.6	3889.2	3616.8	3346.2	3068.3
-62.5°	4616.8	4449.0	4319.7	4184.9	4037.0	3861.4	3639.0	3418.4	3188.1	2948.0	2721.7
-65°	3979.3	3836.6	3720.2	3613.9	3496.8	3366.3	3171.6	2979.3	2788.5	2592.1	2389.9
-67.5°	3407.3	3286.2	3186.5	3095.4	3002.4	2899.5	2745.5	2577.8	2416.1	2255.5	2084.8
-70°	2890.5	2791.2	2705.8	2629.8	2550.7	2467.3	2348.5	2211.6	2071.5	1934.7	1792.0
-72.5°	2421.2	2340.3	2267.0	2205.7	2137.6	2068.7	1978.2	1865.6	1749.6	1630.2	1510.9
-75°	1985.9	1920.3	1858.7	1810.8	1758.5	1702.1	1632.7	1541.1	1448.4	1354.7	1259.3
-77.5°	1581.5	1531.0	1482.1	1446.8	1407.9	1365.4	1312.3	1239.7	1171.5	1101.8	1030.7
-80°	1219.5	1182.5	1146.0	1123.6	1099.2	1073.1	1041.0	985.4	928.5	873.3	820.6
-82.5°	910.9	885.5	860.1	848.3	834.7	819.1	799.6	759.3	718.4	677.0	635.3
-85°	672.0	654.5	636.8	629.9	622.1	613.2	602.7	576.3	549.4	522.1	494.4
-87.5°	514.9	501.8	488.7	483.7	478.5	473.1	467.4	449.6	431.8	414.0	396.1
-90°	3.8	4.1	4.3	4.6	4.9	5.1	5.4	5.7	6.0	6.2	6.5



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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°	329.9	314.1	298.4	282.6	266.6	250.5	234.5	218.4	200.2	182.0	163.8
87.5°	11.9	12.7	13.3	13.9	13.6	13.3	13.0	12.7	13.2	13.6	13.8
85°	25.2	23.8	22.7	21.9	20.6	19.0	18.4	17.8	18.6	19.0	19.1
82.5°	45.8	41.8	38.0	35.0	34.1	32.7	30.6	28.1	26.7	24.9	24.5
80°	61.4	56.2	51.3	47.3	46.8	46.4	44.2	41.5	39.3	36.6	33.4
77.5°	77.9	70.7	63.6	58.5	56.8	55.4	54.2	53.7	52.0	48.4	44.1
75°	95.1	86.7	78.4	72.7	69.4	64.2	62.0	62.3	64.1	60.4	54.8
72.5°	112.8	104.0	94.2	88.6	86.8	82.2	74.7	71.9	76.6	74.9	66.8
70°	128.7	121.5	111.9	109.5	107.3	101.2	94.3	92.3	90.2	90.1	83.0
67.5°	143.2	136.7	128.4	131.9	131.6	126.1	115.3	116.3	115.6	106.4	99.7
65°	147.7	148.2	146.3	155.6	157.6	152.7	142.4	144.0	142.1	133.0	116.9
62.5°	152.4	156.5	163.8	180.7	185.8	182.0	172.9	178.7	171.4	160.4	140.9
60°	157.6	165.5	185.5	206.7	216.0	213.5	211.5	215.6	208.5	188.8	167.8
57.5°	174.9	178.4	214.2	238.6	249.0	247.8	254.8	258.8	247.2	224.5	195.8
55°	203.3	216.8	256.8	279.2	288.7	285.7	304.7	307.0	289.5	263.2	225.8
52.5°	259.0	290.1	324.5	336.6	338.1	338.7	364.7	358.8	339.5	303.1	263.5
50°	383.9	411.2	429.5	422.3	399.6	419.1	432.0	424.0	392.3	346.6	303.0
47.5°	647.4	636.1	589.2	538.0	497.0	513.8	521.4	496.0	447.7	397.5	343.3
45°	1053.4	959.6	833.3	723.6	636.6	646.1	626.7	573.7	519.3	452.5	384.4
42.5°	1494.9	1353.4	1192.6	933.9	851.6	800.2	743.6	678.3	595.2	509.4	430.9
40°	2013.1	1769.6	1583.6	1304.6	1080.9	968.4	894.1	794.6	674.7	571.2	481.4
37.5°	2503.0	2204.9	1971.8	1654.3	1333.6	1181.4	1057.3	919.1	759.7	640.4	532.7
35°	2955.8	2627.6	2303.1	1969.9	1634.8	1395.1	1229.7	1057.9	858.7	708.9	584.5
32.5°	3398.7	3017.4	2640.4	2267.4	1911.6	1609.0	1417.4	1180.2	953.7	776.7	636.6
30°	3854.2	3409.3	2976.2	2555.3	2169.4	1847.3	1586.7	1294.9	1044.6	843.4	690.0
27.5°	4311.5	3795.9	3313.0	2851.8	2425.3	2065.6	1716.1	1401.8	1131.0	913.3	745.6
25°	4780.3	4203.6	3660.5	3148.2	2670.7	2233.5	1840.2	1501.3	1219.3	986.8	799.8
22.5°	5256.8	4616.9	3998.9	3437.1	2874.5	2402.8	1970.3	1605.9	1304.5	1056.4	852.3
20°	5705.2	5024.1	4315.4	3668.9	3075.7	2577.9	2108.6	1704.6	1382.9	1121.8	902.9
17.5°	6137.7	5390.4	4596.6	3895.9	3270.6	2738.9	2243.5	1797.0	1454.8	1183.1	951.5
15°	6585.2	5711.3	4868.6	4104.6	3448.4	2885.6	2373.4	1882.6	1520.0	1240.2	992.3
12.5°	6985.8	6023.1	5122.6	4294.1	3608.8	3018.0	2496.9	1961.2	1578.8	1290.4	1024.1
10°	7342.4	6320.5	5355.6	4463.4	3751.2	3136.2	2612.4	2041.3	1647.9	1335.6	1053.7
7.5°	7654.5	6597.5	5564.4	4611.6	3876.8	3234.4	2699.9	2132.5	1716.3	1377.4	1080.7
5°	7911.2	6826.8	5765.1	4782.7	3993.0	3314.2	2767.0	2216.0	1780.8	1415.5	1104.7
2.5°	8078.6	6983.0	5944.7	4941.6	4092.5	3381.5	2817.9	2291.1	1840.1	1449.2	1125.3
0°	8202.2	7098.0	6090.5	5077.6	4173.4	3435.4	2855.1	2357.3	1893.2	1478.1	1142.2
-2.5°	8361.4	7210.5	6181.5	5185.3	4286.5	3530.9	2918.2	2399.2	1930.4	1514.1	1170.3
-5°	8471.1	7284.2	6240.8	5266.3	4377.9	3609.5	2968.7	2431.5	1960.2	1544.6	1194.0
-7.5°	8547.8	7343.7	6280.3	5320.1	4446.6	3669.0	3005.3	2454.1	1982.7	1569.2	1213.1
-10°	8577.2	7375.8	6301.7	5336.0	4468.2	3697.1	3026.9	2466.9	1998.0	1587.6	1227.4
-12.5°	8553.9	7360.5	6285.3	5323.0	4461.5	3696.5	3035.1	2477.0	2006.5	1599.8	1236.7
-15°	8477.4	7296.0	6229.9	5280.8	4430.5	3677.5	3029.7	2479.4	2010.1	1604.0	1240.8
-17.5°	8340.9	7180.9	6134.7	5209.0	4374.7	3640.2	3010.7	2470.2	2004.8	1599.3	1237.9
-20°	8148.2	7029.8	6004.8	5107.7	4294.0	3584.4	2978.2	2449.1	1990.5	1587.6	1228.8



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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°	7918.0	6858.1	5880.2	4993.6	4199.7	3510.3	2932.1	2415.9	1967.0	1568.7	1214.8
-25°	7648.5	6657.0	5722.6	4869.4	4101.0	3444.8	2879.2	2370.5	1934.2	1542.4	1195.9
-27.5°	7381.5	6433.5	5529.3	4720.4	3995.9	3365.3	2818.9	2326.0	1894.4	1508.7	1172.1
-30°	7101.7	6190.1	5333.4	4557.2	3870.0	3274.9	2744.3	2270.9	1850.6	1473.3	1143.4
-32.5°	6775.2	5908.5	5120.3	4398.9	3744.4	3165.8	2655.8	2204.8	1797.8	1435.4	1116.1
-35°	6416.6	5625.1	4886.4	4218.5	3604.5	3054.9	2561.1	2127.7	1736.1	1391.9	1086.5
-37.5°	6035.5	5323.6	4667.3	4027.6	3441.0	2928.2	2465.9	2047.7	1665.6	1343.0	1052.8
-40°	5680.5	5013.5	4404.5	3825.3	3278.4	2785.8	2358.7	1963.5	1599.6	1288.7	1015.1
-42.5°	5301.3	4702.8	4136.2	3594.1	3106.1	2654.5	2241.9	1871.3	1534.1	1237.2	973.5
-45°	4938.0	4379.4	3855.4	3376.2	2922.7	2511.0	2131.1	1773.8	1460.8	1185.1	931.1
-47.5°	4559.8	4057.4	3583.2	3142.9	2749.8	2362.1	2012.0	1681.8	1379.8	1128.5	888.5
-50°	4194.0	3738.3	3312.7	2921.7	2556.3	2222.2	1888.0	1580.7	1307.2	1065.2	841.8
-52.5°	3825.1	3428.1	3050.2	2696.5	2376.7	2074.0	1763.6	1472.8	1228.3	1001.3	791.0
-55°	3465.8	3129.6	2791.0	2480.9	2191.9	1917.3	1629.3	1375.6	1143.2	934.5	737.5
-57.5°	3130.4	2831.9	2543.6	2266.0	2002.1	1747.9	1502.3	1271.7	1059.0	863.4	689.8
-60°	2799.3	2552.0	2296.7	2048.2	1806.8	1584.9	1377.1	1164.7	971.5	790.7	637.6
-62.5°	2495.1	2271.8	2051.8	1825.7	1620.9	1431.2	1247.2	1058.9	879.4	724.9	582.0
-65°	2198.5	2002.2	1803.4	1621.7	1444.2	1276.0	1119.0	948.1	795.5	655.7	527.8
-67.5°	1908.9	1745.6	1583.4	1420.8	1272.9	1128.9	985.2	845.6	711.2	583.6	481.2
-70°	1646.7	1501.7	1368.6	1239.3	1108.8	981.2	865.5	744.6	623.7	525.8	432.8
-72.5°	1396.9	1283.7	1171.6	1059.2	954.7	850.5	746.7	645.2	554.0	466.4	382.8
-75°	1162.4	1074.8	989.1	901.3	809.1	718.6	640.7	563.2	482.7	405.3	340.7
-77.5°	958.4	886.3	814.5	747.7	677.7	609.8	544.2	479.1	413.9	355.8	300.7
-80°	768.4	716.1	663.8	610.7	554.1	499.4	453.3	406.9	355.5	306.4	259.6
-82.5°	594.5	558.9	524.4	489.2	450.8	412.8	375.2	337.7	296.0	256.0	225.3
-85°	467.4	440.0	412.2	384.1	354.6	325.4	303.8	282.0	256.1	230.5	205.1
-87.5°	378.7	361.1	343.3	325.4	306.8	288.1	269.3	250.4	228.3	206.4	184.6
-90°	6.8	7.1	7.3	7.6	7.6	7.6	7.6	7.6	7.9	8.2	8.4



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	145.6	120.6	95.6	70.6	45.6	26.6	7.6
87.5°	13.8	13.4	12.8	12.0	11.1	9.7	7.6
85°	18.9	18.0	16.8	15.3	13.4	11.2	7.6
82.5°	24.0	22.7	20.9	18.6	15.8	12.7	7.6
80°	29.6	27.3	25.0	21.9	18.2	14.2	7.6
77.5°	39.4	33.9	29.0	25.2	20.6	15.7	7.6
75°	49.4	43.9	34.0	28.4	23.0	17.2	7.6
72.5°	59.6	54.1	43.5	31.7	25.4	18.7	7.6
70°	71.0	64.4	52.9	35.9	27.8	20.2	7.6
67.5°	88.3	74.9	62.5	43.9	30.3	21.6	7.6
65°	106.2	88.6	72.1	51.9	32.8	23.1	7.6
62.5°	124.5	105.7	81.8	59.8	35.2	24.5	7.6
60°	143.4	123.0	91.5	67.8	37.8	26.0	7.6
57.5°	169.4	140.6	106.4	75.7	43.5	27.4	7.6
55°	196.7	158.5	121.6	83.6	49.3	28.8	7.6
52.5°	224.5	177.6	136.9	91.4	54.9	30.2	7.6
50°	252.8	202.0	152.1	99.2	60.5	31.5	7.6
47.5°	282.6	226.5	167.4	107.9	65.9	32.9	7.6
45°	318.1	251.1	182.6	119.4	71.2	34.2	7.6
42.5°	354.0	275.8	197.9	130.8	76.4	35.4	7.6
40°	390.0	300.4	215.1	142.0	81.5	36.7	7.6
37.5°	426.1	325.0	234.3	152.9	86.4	37.9	7.6
35°	462.2	352.5	253.1	163.5	91.2	39.1	7.6
32.5°	500.2	381.2	271.6	173.7	95.8	40.2	7.6
30°	542.5	409.4	289.6	183.4	100.2	41.3	7.6
27.5°	584.3	437.0	306.0	192.8	104.4	42.3	7.6
25°	625.4	463.9	321.5	201.7	108.4	43.3	7.6
22.5°	665.7	488.8	336.3	210.1	112.2	44.3	7.6
20°	704.8	509.4	350.1	217.9	115.8	45.2	7.6
17.5°	735.5	528.5	363.0	225.3	119.1	46.0	7.6
15°	759.4	546.0	375.0	232.1	122.2	46.8	7.6
12.5°	780.5	561.9	385.9	238.3	125.0	47.5	7.6
10°	798.8	576.0	395.8	243.9	127.6	48.2	7.6
7.5°	814.4	588.5	404.6	248.8	129.8	48.7	7.6
5°	827.1	599.2	412.2	253.1	131.8	49.2	7.6
2.5°	837.2	608.0	418.7	256.8	133.4	49.7	7.6
0°	844.5	615.1	423.9	259.7	134.8	50.0	7.6
-2.5°	864.8	626.6	430.8	263.6	136.9	51.0	7.6
-5°	882.1	636.1	436.4	266.8	138.6	51.9	7.6
-7.5°	896.3	643.5	440.7	269.3	140.0	52.7	7.6
-10°	906.9	648.8	443.5	270.9	141.1	53.4	7.6
-12.5°	913.8	651.9	444.8	271.8	141.8	54.0	7.6
-15°	916.7	652.6	444.7	271.8	142.2	54.6	7.6
-17.5°	915.5	650.9	443.0	271.0	142.2	55.0	7.6
-20°	910.5	646.8	439.7	269.3	141.9	55.3	7.6



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	902.5	640.1	434.8	266.8	141.2	55.6	7.6
-25°	890.9	633.5	428.3	263.4	140.1	55.7	7.6
-27.5°	875.8	625.4	420.2	259.2	138.7	55.8	7.6
-30°	857.2	614.5	410.8	254.1	137.0	55.7	7.6
-32.5°	835.1	600.9	402.1	248.1	134.9	55.5	7.6
-35°	814.5	584.6	391.7	241.3	132.5	55.3	7.6
-37.5°	792.5	567.1	379.6	233.6	129.7	54.9	7.6
-40°	766.9	550.3	365.8	225.1	126.6	54.4	7.6
-42.5°	737.7	531.1	353.0	216.3	123.1	53.9	7.6
-45°	705.1	509.6	341.4	207.6	119.4	53.2	7.6
-47.5°	669.1	485.9	328.5	198.0	115.3	52.4	7.6
-50°	636.4	460.0	314.2	191.2	110.9	51.5	7.6
-52.5°	602.0	432.0	298.7	184.9	106.2	50.6	7.6
-55°	564.9	408.9	281.9	177.9	101.2	49.5	7.6
-57.5°	525.3	385.5	263.9	170.3	95.9	48.4	7.6
-60°	484.4	360.4	245.0	162.0	90.4	47.1	7.6
-62.5°	451.1	333.9	232.0	153.0	87.6	45.8	7.6
-65°	415.9	305.9	218.1	143.5	84.5	44.4	7.6
-67.5°	378.9	281.1	203.3	133.5	81.3	42.9	7.6
-70°	340.3	259.7	187.7	122.9	77.9	41.4	7.6
-72.5°	309.6	237.3	171.3	116.3	74.3	39.7	7.6
-75°	279.0	213.9	154.3	110.5	70.6	38.0	7.6
-77.5°	247.3	189.7	144.0	104.4	66.7	36.2	7.6
-80°	214.6	173.1	134.9	98.0	62.7	34.4	7.6
-82.5°	196.4	160.5	125.5	91.5	58.6	32.5	7.6
-85°	179.9	147.5	115.8	84.7	54.3	30.6	7.6
-87.5°	162.9	134.2	105.8	77.7	50.0	28.6	7.6
-90°	8.7	8.7	8.7	8.7	8.7	8.2	7.6

(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

