

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: P731424 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-70-7F-CV5**

Issue Date: 11/16/2023

Test Information

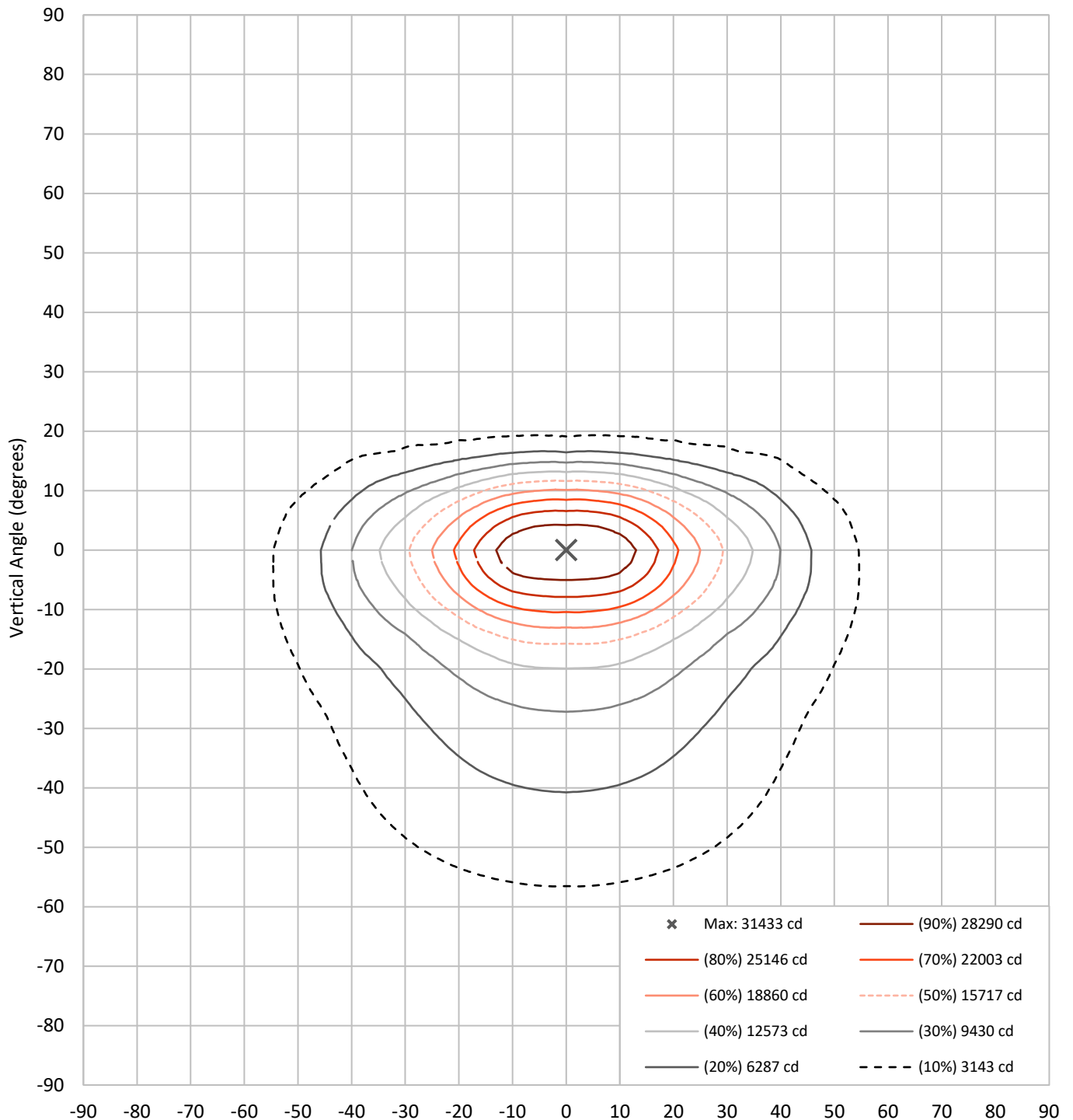
Test Method: LM-79-08
Report Number: P731424 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-42)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-57-70-7F-CV5
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 7F BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	21150.1 lumens	Max Intensity:	31433 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	61.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	58.6°H x 27.3°V	Field Angle (10%):	109.1°H x 75.6°V
Beam Lumens:	8405.9 lumens	Field Lumens:	18612.6 lumens
Beam Efficiency:	39.7%	Field Efficiency:	88.0%
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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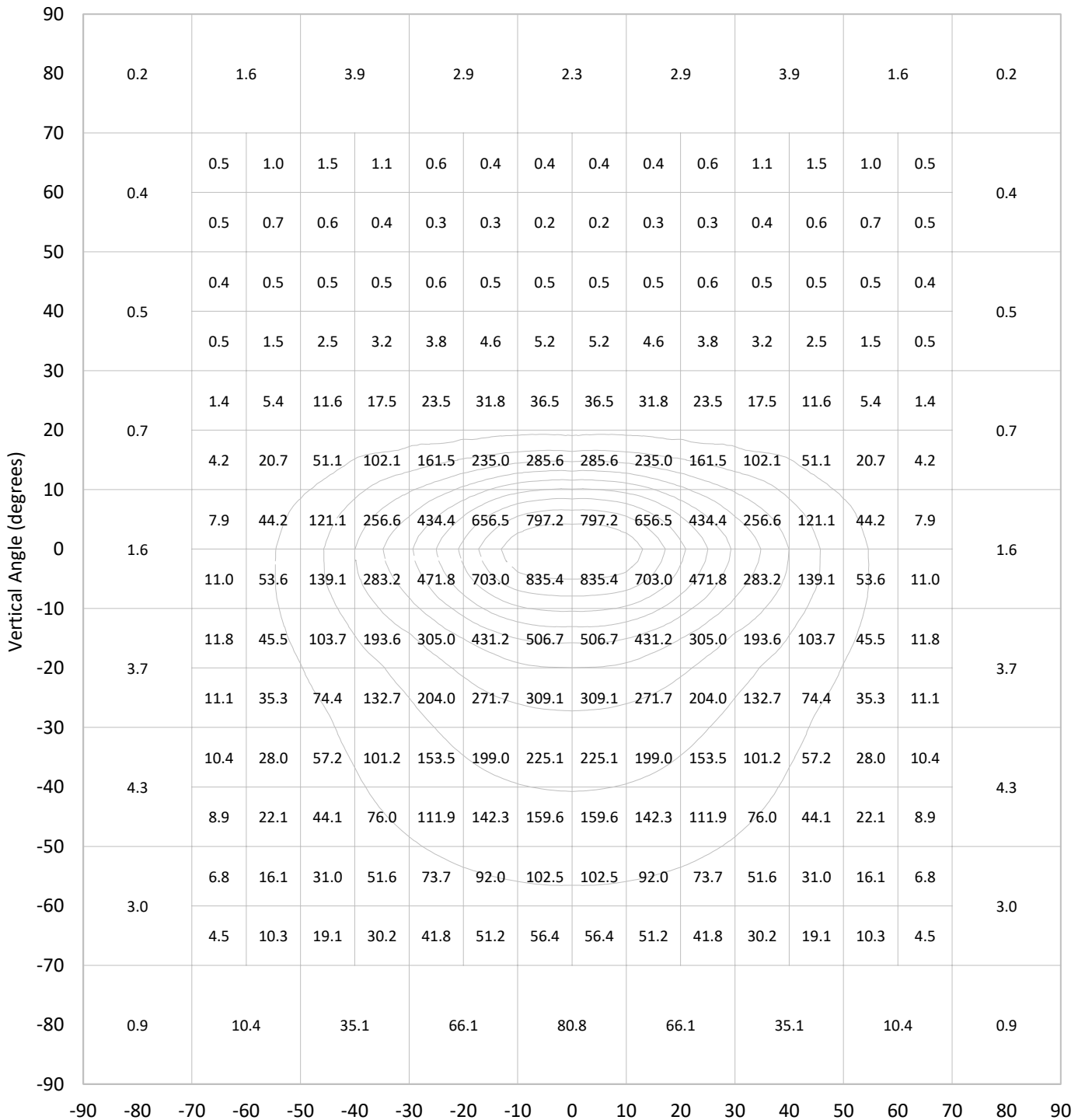
Iso-Candela Plot





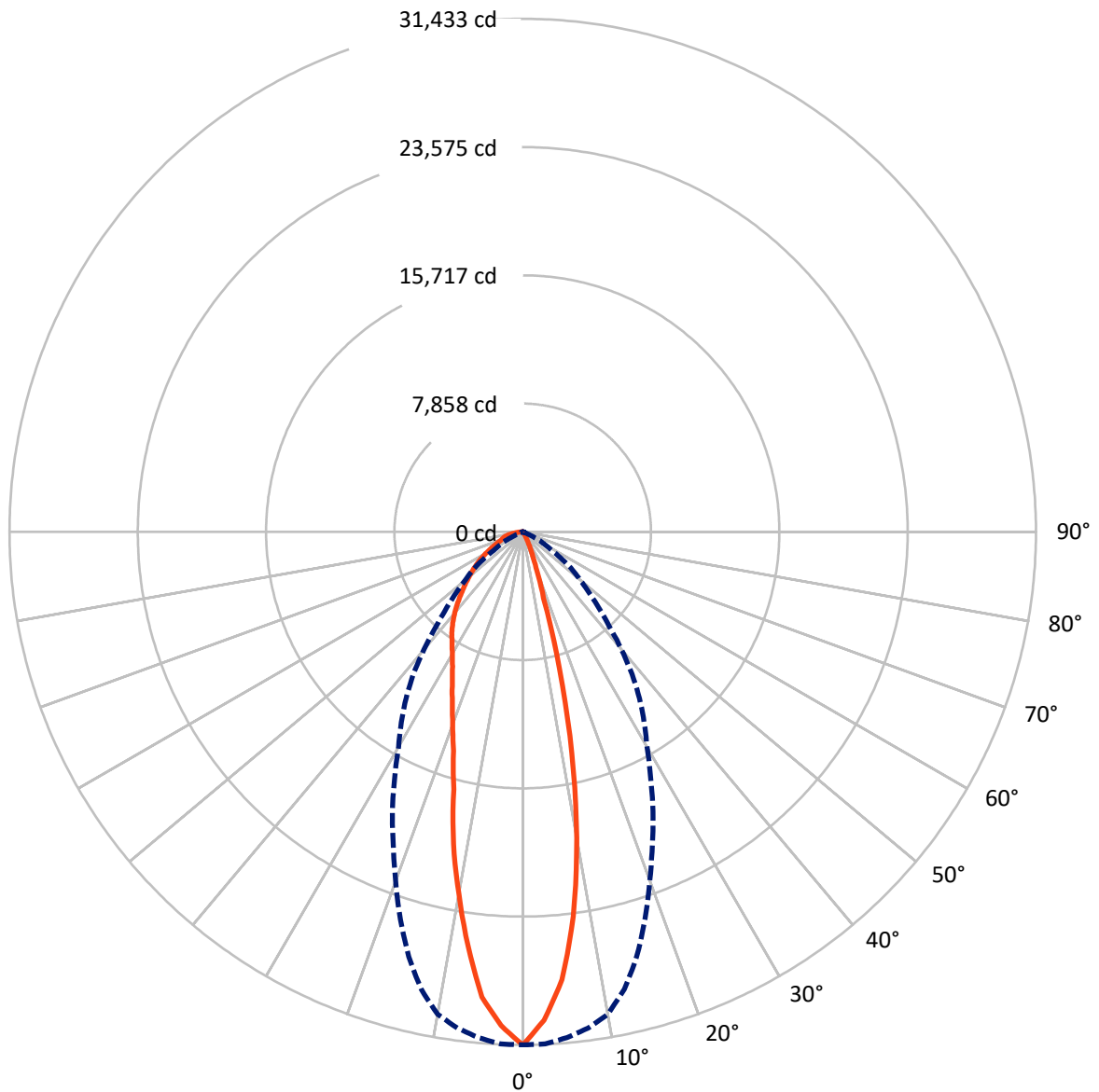
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Lumen Table



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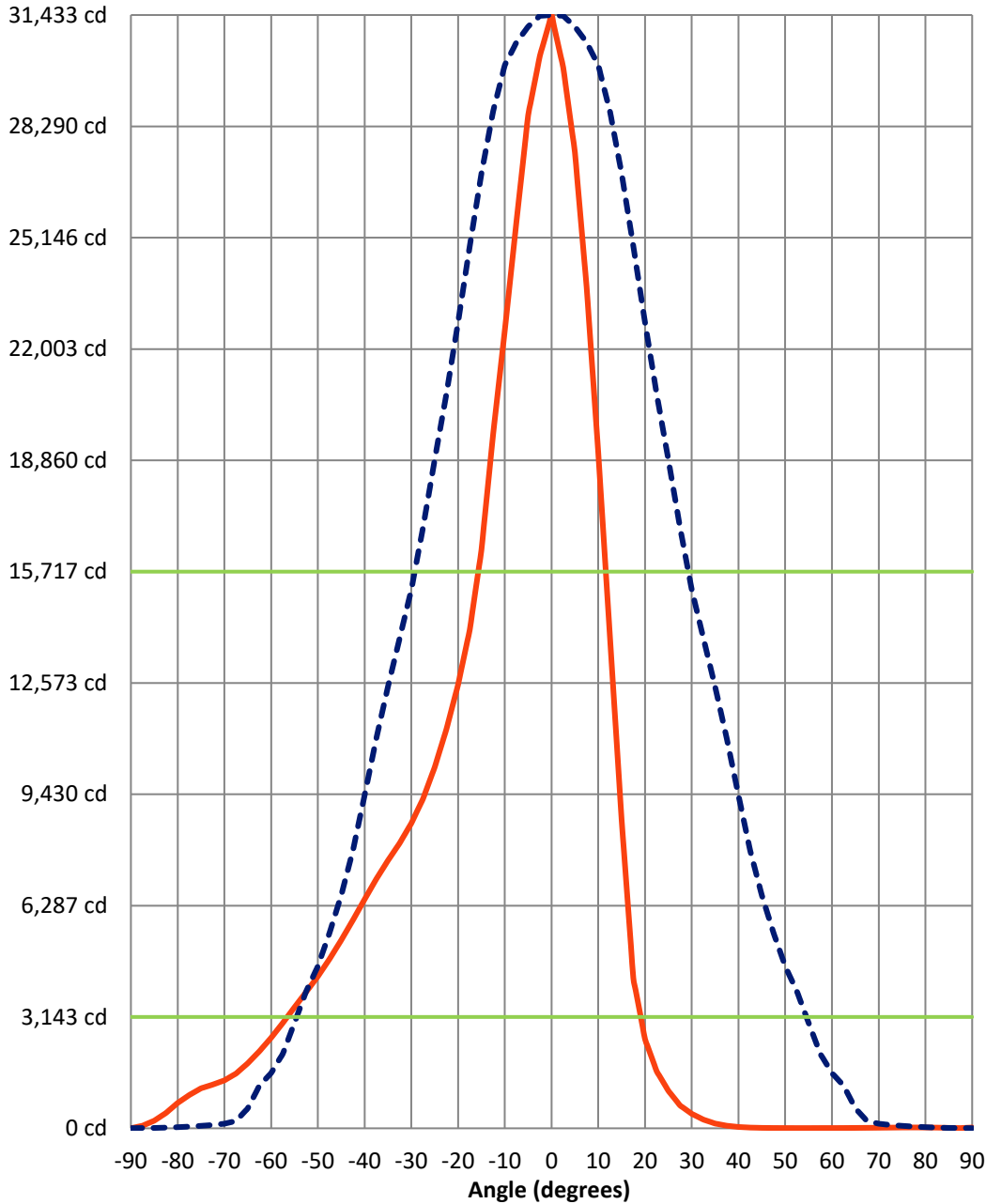
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 58.6°
 V Angle: 27.3°
 Lumens: 8405.9
 Efficiency: 39.7%

Field:
 H Angle: 109.1°
 V Angle: 75.6°
 Lumens: 18612.6
 Efficiency: 88.0%

Spill:
 Lumens: 2537.6
 Efficiency: 12.0%

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



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	4.6	5.2	5.7	6.0	6.3	6.6	6.9	7.2	7.5	7.7	8.0
87.5°	4.6	4.8	5.1	5.5	5.9	6.4	7.0	7.1	7.1	7.1	7.0
85°	4.6	5.0	5.6	6.3	7.2	8.2	9.3	9.6	9.7	9.6	9.4
82.5°	4.6	5.2	6.1	7.1	8.4	9.9	11.6	12.1	12.3	13.2	14.8
80°	4.6	5.4	6.6	8.0	9.7	11.7	13.8	14.4	15.9	18.4	21.8
77.5°	4.6	5.6	7.0	8.8	10.9	13.0	14.8	16.5	19.3	23.4	27.4
75°	4.6	5.8	7.5	9.6	11.9	13.5	15.8	18.6	22.4	25.6	29.0
72.5°	4.6	6.0	8.0	10.4	12.1	14.1	16.8	20.2	23.5	27.0	30.6
70°	4.6	6.1	8.4	11.0	12.3	14.5	17.6	21.0	24.5	28.2	31.7
67.5°	4.6	6.3	8.8	10.9	12.4	14.9	18.3	21.7	25.4	29.1	32.7
65°	4.6	6.5	9.2	10.9	12.5	15.4	19.0	22.4	26.2	29.9	34.0
62.5°	4.6	6.6	9.6	10.8	12.5	16.0	19.6	23.0	26.8	30.8	36.0
60°	4.6	6.8	10.0	10.6	12.5	16.6	20.3	23.5	27.5	32.3	37.8
57.5°	4.6	6.9	9.9	10.5	13.0	17.2	21.0	24.1	28.4	33.6	38.4
55°	4.6	7.1	9.8	10.3	13.5	17.8	21.8	24.9	29.4	34.6	38.5
52.5°	4.6	7.2	9.7	10.1	14.0	18.4	22.6	25.9	30.2	34.6	38.5
50°	4.6	7.4	9.7	9.9	14.4	19.2	23.5	27.0	30.6	34.6	36.7
47.5°	4.6	7.5	9.6	9.7	14.9	19.9	24.4	28.1	30.5	34.5	34.8
45°	4.6	7.6	9.6	10.1	15.3	20.7	25.3	29.2	31.2	33.1	33.2
42.5°	4.6	7.7	9.5	10.4	15.7	21.5	26.3	30.1	32.1	31.9	31.6
40°	4.6	7.8	9.5	10.9	16.2	22.3	27.2	31.0	32.9	31.1	30.3
37.5°	4.6	7.9	9.5	11.5	16.8	23.1	28.2	31.9	33.5	31.9	29.2
35°	4.6	7.9	9.5	12.1	17.4	23.9	29.1	32.8	34.3	33.3	29.4
32.5°	4.6	8.0	9.5	12.7	18.0	24.6	29.9	33.8	35.5	35.5	35.1
30°	4.6	8.0	9.6	13.3	18.5	25.2	30.7	34.9	36.9	38.4	42.3
27.5°	4.6	8.1	9.6	13.9	19.6	25.9	31.5	36.0	38.8	42.0	50.9
25°	4.6	8.1	9.6	14.5	20.9	26.5	32.3	37.2	41.6	48.1	61.6
22.5°	4.6	8.1	9.7	15.1	22.1	27.5	33.1	38.5	44.7	55.8	96.6
20°	4.6	8.2	9.8	15.7	23.4	29.6	33.9	39.9	48.2	64.0	136.5
17.5°	4.6	8.2	9.8	16.3	24.6	31.9	36.9	41.4	51.9	72.8	180.4
15°	4.6	8.2	9.9	16.8	25.8	34.2	41.3	45.6	55.8	81.9	227.1
12.5°	4.6	8.2	10.0	17.3	27.0	36.6	45.9	53.3	64.7	91.1	275.2
10°	4.6	8.1	10.0	17.8	28.1	39.0	50.7	61.3	77.8	112.8	329.1
7.5°	4.6	8.1	10.1	18.3	29.2	41.4	55.6	69.5	91.1	136.7	393.3
5°	4.6	8.1	10.2	18.7	30.2	43.7	60.4	77.7	104.4	160.6	454.9
2.5°	4.6	8.0	10.2	19.1	31.1	45.9	65.1	85.8	117.5	184.1	512.4
0°	4.6	8.0	10.3	19.4	32.0	48.0	69.7	93.7	130.2	206.7	564.2
-2.5°	4.6	8.2	11.1	21.8	37.4	58.4	87.9	123.7	175.7	269.5	627.7
-5°	4.6	8.3	11.9	24.1	42.6	68.5	105.6	152.9	220.1	330.2	684.0
-7.5°	4.6	8.5	12.6	26.3	47.6	78.3	122.6	181.0	262.5	387.9	733.3
-10°	4.6	8.6	13.4	28.3	52.3	87.4	138.6	207.5	302.6	442.0	775.7
-12.5°	4.6	8.8	14.1	30.3	56.7	96.0	153.4	232.0	339.6	489.7	793.0
-15°	4.6	8.9	14.7	32.0	60.7	103.7	166.9	254.2	369.8	518.7	796.7
-17.5°	4.6	9.0	15.3	33.6	64.3	110.6	178.7	273.4	392.9	543.9	796.8
-20°	4.6	9.1	15.9	34.9	67.3	116.5	189.9	290.1	413.2	565.2	793.9



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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.6	9.2	16.4	36.0	69.8	121.4	201.2	304.4	430.6	582.5	788.7
-25°	4.6	9.2	16.8	36.8	71.7	127.6	210.7	316.2	445.0	595.5	781.7
-27.5°	4.6	9.3	17.2	37.4	73.0	133.6	218.6	325.3	456.2	606.2	792.4
-30°	4.6	9.3	17.5	37.7	74.0	138.2	224.6	331.7	465.1	616.8	798.7
-32.5°	4.6	9.3	17.7	37.7	76.3	141.5	228.6	337.3	471.0	623.4	799.6
-35°	4.6	9.3	17.8	37.4	77.9	143.4	231.8	341.1	473.2	625.7	794.9
-37.5°	4.6	9.3	17.9	36.8	78.5	144.3	233.4	342.1	471.5	623.9	768.9
-40°	4.6	9.3	17.9	35.9	78.2	144.6	232.8	340.5	466.0	618.1	741.8
-42.5°	4.6	9.2	17.8	35.0	77.6	143.4	230.0	336.2	459.8	593.0	710.7
-45°	4.6	9.1	17.6	34.5	76.9	140.7	225.2	329.7	451.6	563.1	676.2
-47.5°	4.6	9.0	17.4	33.4	75.3	136.6	218.1	321.0	439.5	530.6	639.5
-50°	4.6	8.9	17.0	33.1	73.0	131.0	210.4	309.5	413.5	500.6	599.8
-52.5°	4.6	8.8	16.6	32.7	69.9	123.9	200.9	295.2	386.0	467.8	557.7
-55°	4.6	8.6	16.1	32.1	66.0	117.6	189.4	278.4	356.9	432.5	517.0
-57.5°	4.6	8.5	15.6	31.0	61.3	110.6	175.9	260.5	326.2	396.5	473.4
-60°	4.6	8.3	14.9	29.7	56.1	102.4	161.0	236.7	294.6	359.1	428.2
-62.5°	4.6	8.1	14.4	28.1	52.7	93.1	147.7	210.6	264.7	320.0	383.3
-65°	4.6	7.9	13.8	26.1	48.7	82.8	133.1	185.3	234.0	284.1	336.6
-67.5°	4.6	7.6	13.1	23.9	44.2	73.5	117.1	163.1	202.4	248.6	294.5
-70°	4.6	7.4	12.4	21.5	39.3	65.3	99.9	140.6	177.0	212.2	254.1
-72.5°	4.6	7.1	11.6	19.7	34.0	56.4	85.9	117.7	151.4	183.9	215.0
-75°	4.6	6.9	10.9	17.9	28.3	46.9	71.8	97.3	125.4	155.3	184.1
-77.5°	4.6	6.6	10.1	16.1	24.5	37.0	56.9	77.2	100.0	125.8	152.8
-80°	4.6	6.3	9.2	14.2	21.0	29.8	41.4	56.6	74.0	93.7	115.8
-82.5°	4.6	6.0	8.4	12.2	17.5	24.2	32.3	39.1	47.4	61.0	76.4
-85°	4.6	5.7	7.5	10.2	13.8	18.4	23.9	28.6	33.5	38.9	44.6
-87.5°	4.6	5.4	6.6	8.1	10.1	12.5	15.5	17.9	20.5	23.3	26.3
-90°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6



REPORT NUMBER: P731424 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	8.3	8.6	8.8	9.1	10.0	10.9	11.7	12.6	14.0	15.5	16.9
87.5°	7.5	8.0	8.6	9.2	8.8	8.3	7.7	7.0	7.5	8.1	8.7
85°	10.4	11.4	12.9	14.1	14.0	14.1	14.3	14.6	15.6	16.4	17.1
82.5°	16.8	18.3	19.3	20.0	21.0	22.4	24.2	26.9	28.4	29.4	29.9
80°	23.9	25.2	26.2	28.1	31.5	35.4	39.7	44.3	45.9	46.0	45.6
77.5°	28.6	30.5	33.7	37.9	43.0	48.0	53.4	59.1	60.7	60.4	59.6
75°	31.8	35.5	40.2	46.0	52.2	58.6	65.3	71.5	73.2	71.4	68.9
72.5°	34.2	39.1	45.4	53.0	60.0	66.5	73.4	80.7	83.3	79.3	74.3
70°	35.9	42.1	49.7	57.7	65.6	72.6	79.2	86.3	90.3	83.5	73.7
67.5°	37.3	45.0	53.2	61.5	68.7	75.4	82.8	85.1	86.0	75.8	65.2
65°	39.4	47.6	55.1	62.4	70.1	72.4	74.0	75.5	73.9	62.2	50.7
62.5°	41.5	48.3	55.4	61.1	62.9	64.1	62.8	59.7	55.7	47.6	38.1
60°	42.1	48.1	52.7	54.5	55.0	52.6	49.0	45.4	41.1	34.4	27.9
57.5°	42.3	45.3	47.1	47.5	45.3	41.6	38.0	33.3	29.7	25.4	20.2
55°	41.3	40.7	41.5	40.1	37.0	33.0	28.8	25.6	21.3	18.8	15.7
52.5°	38.5	36.8	36.1	33.8	30.3	26.6	23.2	20.1	17.6	14.8	12.9
50°	35.9	33.7	31.4	28.6	25.9	23.4	19.6	17.3	15.3	13.2	11.4
47.5°	33.6	31.0	27.4	25.2	24.8	23.3	19.6	16.2	14.3	14.3	12.7
45°	31.5	29.3	25.2	25.7	26.4	26.3	23.7	15.9	17.6	18.0	17.1
42.5°	29.7	28.8	30.0	27.3	31.6	33.9	31.9	26.5	23.6	26.2	27.3
40°	30.0	29.5	39.5	39.2	39.8	46.0	49.0	45.2	34.8	41.2	44.2
37.5°	31.1	41.5	53.9	57.9	54.3	64.9	71.3	75.6	67.5	62.2	71.4
35°	33.0	56.4	74.9	83.6	84.0	90.2	106.7	113.5	108.1	99.8	107.2
32.5°	43.2	74.3	99.8	114.5	128.1	134.4	149.1	156.1	162.1	162.1	159.0
30°	64.6	97.9	128.7	148.8	181.4	210.9	204.5	206.0	227.9	250.1	260.9
27.5°	101.3	127.2	160.9	197.2	247.0	304.5	314.8	285.6	315.3	356.4	392.9
25°	147.3	215.6	195.2	254.9	337.7	417.5	460.0	480.2	439.5	499.4	585.6
22.5°	211.0	327.8	328.8	317.8	439.7	551.3	655.9	756.1	807.9	742.9	832.6
20°	296.9	447.7	496.0	549.6	592.2	703.4	883.9	1102.6	1302.9	1416.2	1364.2
17.5°	395.5	578.6	689.5	833.0	974.8	1035.5	1150.5	1508.6	1897.4	2228.3	2406.2
15°	504.0	718.5	898.8	1145.6	1400.6	1592.8	1792.0	2099.7	2612.9	3179.1	3632.4
12.5°	619.4	864.9	1119.9	1480.6	1859.4	2175.5	2530.8	2998.6	3590.7	4296.9	5035.3
10°	738.3	1015.4	1348.5	1830.6	2341.6	2775.7	3284.0	3897.7	4653.6	5533.6	6461.6
7.5°	864.3	1162.6	1573.8	2187.4	2836.5	3384.2	4041.6	4788.3	5705.6	6751.7	7870.4
5°	986.4	1301.6	1761.7	2474.4	3238.2	3897.9	4731.7	5658.5	6734.1	7937.3	9255.7
2.5°	1100.2	1434.6	1939.7	2736.9	3564.1	4249.0	5141.8	6138.3	7351.6	8770.2	10295.0
0°	1202.7	1560.2	2105.1	2978.8	3865.2	4575.6	5517.9	6577.9	7842.3	9399.1	11001.5
-2.5°	1247.1	1625.7	2179.6	3014.9	3857.7	4581.5	5488.2	6569.6	7788.9	9273.2	10845.0
-5°	1278.5	1681.1	2238.4	3027.9	3825.3	4560.2	5425.0	6511.5	7619.3	8939.6	10347.8
-7.5°	1298.4	1725.0	2280.8	3005.7	3719.7	4392.7	5145.0	6070.5	7080.5	8255.8	9495.6
-10°	1302.6	1720.3	2217.1	2861.0	3514.5	4131.5	4801.9	5605.6	6508.8	7536.6	8614.5
-12.5°	1262.1	1672.7	2127.4	2706.0	3302.0	3860.3	4447.2	5130.0	5912.9	6796.4	7750.6
-15°	1218.2	1618.8	2030.9	2544.4	3087.5	3583.5	4087.1	4653.4	5347.9	6152.9	6975.8
-17.5°	1173.1	1559.5	1929.7	2379.9	2875.7	3305.5	3746.3	4284.1	4906.5	5584.8	6254.6
-20°	1128.8	1495.8	1825.6	2215.6	2670.0	3075.7	3505.6	3978.2	4500.7	5053.5	5586.0



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 CATALOG NUMBER: EPH-LS-08-0320N-57-70-7F-CV5

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1087.2	1428.4	1729.4	2077.8	2493.2	2882.2	3266.2	3672.2	4104.9	4552.5	5114.4
-25°	1059.3	1363.7	1645.4	1968.5	2327.1	2686.2	3024.9	3374.0	3746.4	4241.5	4762.0
-27.5°	1042.0	1308.6	1571.7	1858.7	2168.2	2492.9	2799.4	3107.3	3522.5	3967.9	4428.6
-30°	1025.0	1253.9	1494.8	1754.9	2036.7	2318.3	2582.2	2930.1	3317.2	3724.8	4134.4
-32.5°	992.6	1196.4	1424.8	1665.5	1914.5	2158.4	2433.9	2776.0	3131.0	3489.3	3859.2
-35°	952.4	1145.6	1356.1	1574.6	1797.9	2039.0	2318.4	2619.6	2945.7	3279.0	3644.0
-37.5°	917.4	1090.4	1284.9	1488.7	1697.8	1935.3	2192.1	2473.6	2770.8	3082.5	3430.9
-40°	878.5	1030.9	1217.5	1408.6	1604.9	1826.9	2068.8	2324.5	2598.2	2896.2	3208.8
-42.5°	836.8	983.6	1148.0	1326.3	1513.1	1716.0	1935.7	2176.2	2431.5	2702.8	2989.2
-45°	798.0	932.6	1077.4	1243.9	1416.7	1601.3	1804.9	2020.8	2262.7	2512.6	2770.6
-47.5°	755.0	879.5	1016.6	1156.0	1317.8	1488.0	1668.5	1872.7	2086.5	2318.5	2556.6
-50°	708.6	826.8	947.5	1075.0	1216.5	1372.1	1537.0	1720.7	1918.6	2121.2	2335.5
-52.5°	660.9	769.6	878.7	992.2	1118.6	1256.8	1406.8	1569.4	1747.4	1933.3	2118.2
-55°	610.0	710.4	807.5	910.7	1020.8	1143.9	1276.4	1421.4	1570.8	1740.0	1902.9
-57.5°	558.6	646.9	735.3	829.0	927.1	1030.2	1150.9	1273.7	1408.4	1547.6	1683.2
-60°	505.4	582.5	661.1	745.8	834.4	927.8	1026.0	1135.6	1249.7	1362.3	1481.8
-62.5°	450.2	518.2	587.4	659.9	739.6	823.7	911.5	1002.9	1097.0	1194.9	1291.4
-65°	397.0	454.6	515.0	578.4	642.3	719.4	797.1	874.0	956.2	1035.5	1112.9
-67.5°	342.8	397.4	448.1	497.7	556.6	622.8	683.8	753.5	822.4	887.5	950.6
-70°	297.9	341.6	388.2	433.0	479.4	535.7	595.6	651.0	703.1	757.8	816.9
-72.5°	254.6	296.8	335.8	371.6	418.5	471.2	520.4	566.1	615.8	667.8	715.6
-75°	215.0	251.8	289.8	325.1	364.2	410.2	459.7	506.3	548.5	590.6	634.1
-77.5°	176.9	204.6	236.6	272.7	311.5	347.3	386.4	428.6	468.1	508.1	550.6
-80°	135.8	155.6	177.3	202.3	231.2	262.7	296.6	332.6	364.2	393.2	421.9
-82.5°	91.4	106.4	121.7	137.0	153.1	170.1	188.8	211.8	232.3	252.8	273.7
-85°	50.6	56.9	67.3	77.9	86.8	96.3	106.3	116.7	126.4	135.9	145.3
-87.5°	29.5	32.8	36.3	39.9	42.3	44.6	46.8	48.9	51.7	54.3	56.9
-90°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6



REPORT NUMBER: P731424 (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°	18.3	18.6	18.9	19.1	19.4	20.3	21.1	22.0	22.8	22.5	22.3
87.5°	9.3	9.1	8.9	8.8	8.6	9.4	10.4	11.3	12.2	11.2	10.2
85°	17.6	17.7	17.7	17.6	17.5	18.7	19.8	21.0	22.1	20.4	18.6
82.5°	30.2	29.6	28.6	27.1	25.3	24.9	24.4	23.7	22.8	21.9	21.0
80°	44.8	42.6	39.8	36.6	33.0	31.1	29.2	27.2	25.0	24.3	23.8
77.5°	57.7	53.8	49.1	43.9	38.4	35.1	32.4	29.5	26.5	25.9	25.6
75°	65.9	60.9	54.0	46.8	39.5	34.9	31.5	28.3	25.1	24.1	23.7
72.5°	68.4	61.4	53.4	44.4	35.8	30.4	27.3	24.5	22.0	21.0	20.4
70°	64.0	54.7	45.8	37.2	29.3	24.2	22.0	20.1	18.5	17.8	17.5
67.5°	54.1	44.3	36.0	28.8	23.0	19.3	18.1	16.9	15.9	15.2	14.7
65°	41.1	33.4	27.4	22.5	18.9	16.6	15.6	14.6	13.7	13.0	12.5
62.5°	30.2	24.6	21.0	18.2	16.1	14.6	13.7	12.9	12.2	11.6	11.2
60°	22.8	18.9	16.7	15.0	13.6	12.7	12.1	11.5	11.0	10.6	10.1
57.5°	17.4	15.1	13.4	12.6	12.0	11.5	11.1	10.5	10.0	9.5	9.0
55°	13.7	12.5	11.6	11.3	11.1	10.7	10.2	9.7	9.1	8.4	8.0
52.5°	11.5	11.4	11.4	11.2	10.9	10.6	10.2	9.5	8.8	8.1	7.7
50°	11.4	11.5	11.5	11.3	11.0	10.7	10.3	9.8	9.4	8.9	8.6
47.5°	11.9	12.0	12.7	11.6	11.4	11.7	11.5	11.1	10.9	10.7	10.4
45°	14.0	16.4	17.0	16.0	14.1	15.7	15.2	13.4	14.4	14.3	13.4
42.5°	24.8	27.4	29.4	28.1	24.1	25.4	25.4	22.7	23.5	23.5	22.5
40°	47.3	46.4	49.7	48.4	44.0	42.4	44.2	41.1	40.5	42.1	40.2
37.5°	78.0	78.5	77.1	77.2	75.6	71.4	73.9	73.1	70.5	75.4	76.0
35°	121.9	125.7	113.8	118.5	120.5	115.9	118.8	127.1	121.7	133.2	136.4
32.5°	180.8	188.6	182.9	177.5	186.5	193.6	197.0	214.6	219.3	229.8	242.1
30°	253.3	273.7	289.7	279.7	278.5	303.8	318.4	342.1	365.1	378.8	404.0
27.5°	404.2	398.0	436.2	447.5	422.3	462.7	517.5	528.0	597.9	603.6	652.5
25°	638.8	635.5	647.1	702.5	716.6	736.8	830.9	880.7	960.9	1004.3	1041.8
22.5°	953.8	1042.9	1058.1	1032.6	1154.4	1234.1	1260.4	1403.5	1468.9	1566.7	1596.1
20°	1347.8	1555.0	1816.6	1820.7	1770.5	2000.0	2095.2	2170.4	2330.3	2441.7	2517.3
17.5°	2380.8	2379.3	2913.6	3208.7	3175.3	3340.6	3808.2	3760.0	4137.8	4366.8	4376.5
15°	3896.9	4179.5	4518.5	5053.9	5509.6	5877.0	6321.0	6901.1	7370.9	7922.7	8341.6
12.5°	5631.3	6187.8	6768.1	7378.8	8094.0	8906.1	9789.4	10562.7	11482.6	12287.6	13120.0
10°	7369.0	8250.4	9069.5	9982.2	10998.7	12080.5	13376.0	14507.8	15868.5	17061.9	17846.5
7.5°	8962.6	10019.9	11126.8	12453.6	13872.4	15230.9	16697.4	18284.9	19876.8	21255.7	22426.6
5°	10520.1	11708.7	12935.6	14397.1	16018.5	17720.7	19535.4	21412.9	23080.9	24651.7	26019.0
2.5°	11741.9	13103.4	14505.2	16157.8	17902.2	19627.2	21443.9	23465.0	25404.9	27242.1	28646.7
0°	12468.1	13834.2	15209.4	16960.3	18875.8	20729.6	22754.7	24906.5	26954.5	28711.2	30013.3
-2.5°	12178.8	13509.4	14899.0	16628.8	18474.2	20201.5	22136.4	24220.8	26204.4	27983.5	29334.9
-5°	11524.8	12718.6	13992.3	15591.8	17318.2	19034.3	20931.2	22914.1	24625.3	26204.4	27416.1
-7.5°	10605.0	11706.4	12894.3	14375.2	15962.7	17461.3	19011.9	20611.7	22168.8	23519.4	24516.3
-10°	9628.2	10625.2	11647.8	12835.3	14188.4	15496.4	16804.6	18263.9	19547.2	20662.2	21484.4
-12.5°	8648.7	9467.7	10274.4	11182.4	12343.4	13520.6	14652.1	15875.7	16897.9	17817.7	18549.2
-15°	7708.4	8346.0	8958.1	9837.0	10859.4	11728.7	12425.0	13533.2	14227.1	15044.8	15556.2
-17.5°	6834.4	7343.5	8087.5	8843.0	9572.4	10286.9	11090.2	11746.3	12427.5	13095.4	13534.8
-20°	6146.8	6776.5	7405.3	8019.7	8646.4	9328.3	9964.3	10584.2	11177.8	11691.2	12043.5



REPORT NUMBER: P731424 (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°	5699.2	6258.2	6787.5	7340.4	7950.8	8523.5	9060.8	9631.7	10139.3	10522.5	10809.2
-25°	5269.4	5755.5	6270.5	6823.7	7340.2	7822.2	8317.0	8757.7	9190.8	9509.9	9778.1
-27.5°	4882.0	5343.2	5850.6	6340.9	6801.2	7251.7	7672.2	8037.3	8398.1	8653.3	8920.0
-30°	4545.0	5012.1	5473.6	5909.4	6341.9	6750.0	7120.7	7467.4	7770.1	8018.7	8242.3
-32.5°	4290.5	4714.0	5125.0	5532.7	5942.6	6318.9	6643.4	6976.3	7254.9	7493.2	7695.7
-35°	4038.8	4437.0	4816.9	5190.5	5567.8	5930.6	6244.8	6534.7	6808.8	7022.2	7207.7
-37.5°	3793.3	4164.7	4516.2	4852.2	5197.3	5531.8	5818.4	6090.7	6335.8	6533.0	6709.0
-40°	3546.1	3886.3	4200.5	4513.6	4823.7	5104.0	5373.4	5624.2	5834.2	6015.9	6176.1
-42.5°	3290.7	3590.2	3873.6	4160.2	4443.4	4691.4	4929.2	5154.5	5333.2	5494.3	5633.0
-45°	3034.2	3297.8	3557.5	3814.9	4048.0	4277.0	4492.5	4682.7	4843.9	4986.5	5106.9
-47.5°	2787.4	3011.5	3249.1	3483.8	3684.0	3880.0	4068.6	4229.9	4369.8	4494.6	4600.4
-50°	2540.8	2740.7	2948.0	3149.5	3333.1	3505.1	3663.1	3804.0	3931.6	4039.4	4130.2
-52.5°	2296.6	2482.3	2659.4	2823.3	2990.1	3148.3	3295.2	3418.5	3530.2	3630.0	3710.0
-55°	2063.6	2227.7	2393.3	2532.8	2667.7	2799.4	2921.9	3031.9	3133.2	3224.8	3296.6
-57.5°	1828.4	1971.6	2110.0	2235.1	2356.1	2472.3	2571.5	2657.8	2738.6	2812.7	2875.9
-60°	1601.5	1720.8	1837.7	1942.1	2042.9	2139.6	2224.1	2297.5	2362.6	2420.0	2471.9
-62.5°	1388.4	1490.9	1584.1	1668.4	1747.2	1826.1	1898.1	1961.6	2016.7	2064.0	2104.6
-65°	1192.6	1277.4	1351.9	1421.7	1487.2	1553.6	1611.4	1663.6	1710.0	1749.0	1780.3
-67.5°	1018.4	1084.8	1146.8	1200.9	1256.6	1313.1	1365.4	1411.0	1450.4	1481.6	1505.9
-70°	871.5	925.3	980.9	1034.8	1087.8	1136.4	1181.6	1222.0	1258.0	1284.8	1306.3
-72.5°	759.4	804.7	856.0	910.4	960.7	1009.0	1055.0	1097.8	1137.7	1163.2	1183.2
-75°	678.8	725.7	771.5	816.8	861.4	903.9	946.8	990.5	1034.6	1060.6	1081.5
-77.5°	589.9	622.7	656.8	693.8	733.1	771.2	808.5	845.4	881.4	899.5	913.3
-80°	452.2	478.4	504.1	530.1	556.2	583.0	610.1	636.9	663.3	675.5	684.6
-82.5°	294.8	312.7	329.8	346.3	362.0	375.4	388.0	399.7	410.4	415.7	419.3
-85°	154.4	162.3	169.8	176.8	183.4	187.6	191.1	194.1	196.6	199.9	202.7
-87.5°	59.4	61.6	63.8	66.0	68.1	69.1	70.0	70.7	71.4	72.5	73.5
-90°	4.6	4.3	4.0	3.7	3.4	3.1	2.9	2.6	2.3	2.3	2.3



REPORT NUMBER: P731424 (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°	22.0	21.7	22.3	22.8	22.3	21.7	22.0	22.3	22.5	22.8	22.0
87.5°	9.1	8.0	7.4	6.9	7.4	8.0	9.1	10.2	11.2	12.2	11.3
85°	16.7	14.8	13.7	12.6	13.7	14.8	16.7	18.6	20.4	22.1	21.0
82.5°	20.2	19.4	19.4	19.4	19.4	19.4	20.2	21.0	21.9	22.8	23.7
80°	23.3	22.8	22.8	22.8	22.8	22.8	23.3	23.8	24.3	25.0	27.2
77.5°	25.3	25.1	24.6	24.0	24.6	25.1	25.3	25.6	25.9	26.5	29.5
75°	23.3	22.9	22.8	22.8	22.8	22.9	23.3	23.7	24.1	25.1	28.3
72.5°	20.0	19.5	19.4	19.4	19.4	19.5	20.0	20.4	21.0	22.0	24.5
70°	17.3	17.2	16.6	16.0	16.6	17.2	17.3	17.5	17.8	18.5	20.1
67.5°	14.3	13.9	13.7	13.7	13.7	13.9	14.3	14.7	15.2	15.9	16.9
65°	12.0	11.6	11.4	11.4	11.4	11.6	12.0	12.5	13.0	13.7	14.6
62.5°	10.8	10.4	9.8	9.1	9.8	10.4	10.8	11.2	11.6	12.2	12.9
60°	9.7	9.3	8.6	8.0	8.6	9.3	9.7	10.1	10.6	11.0	11.5
57.5°	8.6	8.2	8.0	8.0	8.0	8.2	8.6	9.0	9.5	10.0	10.5
55°	7.5	7.1	6.9	6.9	6.9	7.1	7.5	8.0	8.4	9.1	9.7
52.5°	7.4	7.0	6.9	6.9	6.9	7.0	7.4	7.7	8.1	8.8	9.5
50°	8.3	8.1	8.0	8.0	8.0	8.1	8.3	8.6	8.9	9.4	9.8
47.5°	10.0	9.4	9.1	9.1	9.1	9.4	10.0	10.4	10.7	10.9	11.1
45°	13.1	12.7	12.5	12.6	12.5	12.7	13.1	13.4	14.3	14.4	13.4
42.5°	22.7	22.1	21.2	20.6	21.2	22.1	22.7	22.5	23.5	23.5	22.7
40°	40.3	39.5	38.1	37.7	38.1	39.5	40.3	40.2	42.1	40.5	41.1
37.5°	77.0	76.4	74.0	73.1	74.0	76.4	77.0	76.0	75.4	70.5	73.1
35°	136.2	137.2	134.9	134.8	134.9	137.2	136.2	136.4	133.2	121.7	127.1
32.5°	246.2	248.8	241.9	245.6	241.9	248.8	246.2	242.1	229.8	219.3	214.6
30°	403.2	412.2	408.2	410.0	408.2	412.2	403.2	404.0	378.8	365.1	342.1
27.5°	657.3	664.0	650.2	645.3	650.2	664.0	657.3	652.5	603.6	597.9	528.0
25°	1062.9	1067.1	1053.6	1058.8	1053.6	1067.1	1062.9	1041.8	1004.3	960.9	880.7
22.5°	1655.7	1639.8	1624.8	1610.5	1624.8	1639.8	1655.7	1596.1	1566.7	1468.9	1403.5
20°	2587.5	2550.9	2546.0	2518.5	2546.0	2550.9	2587.5	2517.3	2441.7	2330.3	2170.4
17.5°	4610.1	4676.4	4529.2	4244.4	4529.2	4676.4	4610.1	4376.5	4366.8	4137.8	3760.0
15°	8588.3	8900.0	9033.9	8706.9	9033.9	8900.0	8588.3	8341.6	7922.7	7370.9	6901.1
12.5°	13579.5	13798.9	14064.7	13870.8	14064.7	13798.9	13579.5	13120.0	12287.6	11482.6	10562.7
10°	18520.4	18849.0	19251.2	19070.0	19251.2	18849.0	18520.4	17846.5	17061.9	15868.5	14507.8
7.5°	23071.0	23637.1	23990.5	23763.2	23990.5	23637.1	23071.0	22426.6	21255.7	19876.8	18284.9
5°	26954.7	27402.2	27615.3	27556.4	27615.3	27402.2	26954.7	26019.0	24651.7	23080.9	21412.9
2.5°	29445.2	29917.6	30108.5	29949.9	30108.5	29917.6	29445.2	28646.7	27242.1	25404.9	23465.0
0°	30662.6	31105.2	31409.0	31433.0	31409.0	31105.2	30662.6	30013.3	28711.2	26954.5	24906.5
-2.5°	29959.1	30228.1	30373.4	30276.6	30373.4	30228.1	29959.1	29334.9	27983.5	26204.4	24220.8
-5°	28116.7	28401.1	28493.4	28606.1	28493.4	28401.1	28116.7	27416.1	26204.4	24625.3	22914.1
-7.5°	25077.1	25389.1	25619.2	25609.6	25619.2	25389.1	25077.1	24516.3	23519.4	22168.8	20611.7
-10°	22095.8	22327.6	22567.7	22527.4	22567.7	22327.6	22095.8	21484.4	20662.2	19547.2	18263.9
-12.5°	19141.2	19528.0	19621.9	19593.7	19621.9	19528.0	19141.2	18549.2	17817.7	16897.9	15875.7
-15°	16138.3	16424.9	16401.4	16325.3	16401.4	16424.9	16138.3	15556.2	15044.8	14227.1	13533.2
-17.5°	13915.1	14073.1	14133.5	14074.0	14133.5	14073.1	13915.1	13534.8	13095.4	12427.5	11746.3
-20°	12333.2	12455.2	12496.4	12524.1	12496.4	12455.2	12333.2	12043.5	11691.2	11177.8	10584.2



REPORT NUMBER: P731424 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-7F-CV5

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	11056.1	11180.9	11217.0	11264.3	11217.0	11180.9	11056.1	10809.2	10522.5	10139.3	9631.7
-25°	9985.1	10107.0	10148.1	10195.2	10148.1	10107.0	9985.1	9778.1	9509.9	9190.8	8757.7
-27.5°	9099.0	9217.9	9267.4	9303.1	9267.4	9217.9	9099.0	8920.0	8653.3	8398.1	8037.3
-30°	8401.1	8518.3	8589.2	8612.1	8589.2	8518.3	8401.1	8242.3	8018.7	7770.1	7467.4
-32.5°	7847.4	7949.7	8016.3	8050.1	8016.3	7949.7	7847.4	7695.7	7493.2	7254.9	6976.3
-35°	7354.3	7457.0	7526.2	7561.3	7526.2	7457.0	7354.3	7207.7	7022.2	6808.8	6534.7
-37.5°	6850.1	6961.9	7035.1	7037.0	7035.1	6961.9	6850.1	6709.0	6533.0	6335.8	6090.7
-40°	6293.7	6382.4	6440.5	6463.6	6440.5	6382.4	6293.7	6176.1	6015.9	5834.2	5624.2
-42.5°	5735.7	5811.1	5858.1	5877.7	5858.1	5811.1	5735.7	5633.0	5494.3	5333.2	5154.5
-45°	5203.0	5278.9	5318.1	5312.3	5318.1	5278.9	5203.0	5106.9	4986.5	4843.9	4682.7
-47.5°	4681.8	4740.7	4772.9	4780.1	4772.9	4740.7	4681.8	4600.4	4494.6	4369.8	4229.9
-50°	4207.3	4269.8	4296.4	4288.9	4296.4	4269.8	4207.3	4130.2	4039.4	3931.6	3804.0
-52.5°	3776.0	3829.0	3852.0	3849.2	3852.0	3829.0	3776.0	3710.0	3630.0	3530.2	3418.5
-55°	3355.3	3401.1	3419.4	3416.3	3419.4	3401.1	3355.3	3296.6	3224.8	3133.2	3031.9
-57.5°	2928.4	2969.7	2981.9	2974.3	2981.9	2969.7	2928.4	2875.9	2812.7	2738.6	2657.8
-60°	2514.9	2548.9	2559.5	2555.1	2559.5	2548.9	2514.9	2471.9	2420.0	2362.6	2297.5
-62.5°	2138.2	2164.4	2175.2	2175.9	2175.2	2164.4	2138.2	2104.6	2064.0	2016.7	1961.6
-65°	1805.7	1825.2	1833.8	1835.5	1833.8	1825.2	1805.7	1780.3	1749.0	1710.0	1663.6
-67.5°	1525.5	1540.7	1546.0	1546.5	1546.0	1540.7	1525.5	1505.9	1481.6	1450.4	1411.0
-70°	1325.5	1342.4	1349.5	1353.5	1349.5	1342.4	1325.5	1306.3	1284.8	1258.0	1222.0
-72.5°	1201.9	1219.3	1227.5	1233.6	1227.5	1219.3	1201.9	1183.2	1163.2	1137.7	1097.8
-75°	1101.4	1119.9	1125.6	1128.5	1125.6	1119.9	1101.4	1081.5	1060.6	1034.6	990.5
-77.5°	925.2	935.2	938.9	940.0	938.9	935.2	925.2	913.3	899.5	881.4	845.4
-80°	691.8	697.1	707.0	715.0	707.0	697.1	691.8	684.6	675.5	663.3	636.9
-82.5°	421.6	422.4	428.2	432.9	428.2	422.4	421.6	419.3	415.7	410.4	399.7
-85°	205.0	206.9	211.6	215.9	211.6	206.9	205.0	202.7	199.9	196.6	194.1
-87.5°	74.4	75.2	74.8	74.2	74.8	75.2	74.4	73.5	72.5	71.4	70.7
-90°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.6



REPORT NUMBER: P731424 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-7F-CV5

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	21.1	20.3	19.4	19.1	18.9	18.6	18.3	16.9	15.5	14.0	12.6
87.5°	10.4	9.4	8.6	8.8	8.9	9.1	9.3	8.7	8.1	7.5	7.0
85°	19.8	18.7	17.5	17.6	17.7	17.7	17.6	17.1	16.4	15.6	14.6
82.5°	24.4	24.9	25.3	27.1	28.6	29.6	30.2	29.9	29.4	28.4	26.9
80°	29.2	31.1	33.0	36.6	39.8	42.6	44.8	45.6	46.0	45.9	44.3
77.5°	32.4	35.1	38.4	43.9	49.1	53.8	57.7	59.6	60.4	60.7	59.1
75°	31.5	34.9	39.5	46.8	54.0	60.9	65.9	68.9	71.4	73.2	71.5
72.5°	27.3	30.4	35.8	44.4	53.4	61.4	68.4	74.3	79.3	83.3	80.7
70°	22.0	24.2	29.3	37.2	45.8	54.7	64.0	73.7	83.5	90.3	86.3
67.5°	18.1	19.3	23.0	28.8	36.0	44.3	54.1	65.2	75.8	86.0	85.1
65°	15.6	16.6	18.9	22.5	27.4	33.4	41.1	50.7	62.2	73.9	75.5
62.5°	13.7	14.6	16.1	18.2	21.0	24.6	30.2	38.1	47.6	55.7	59.7
60°	12.1	12.7	13.6	15.0	16.7	18.9	22.8	27.9	34.4	41.1	45.4
57.5°	11.1	11.5	12.0	12.6	13.4	15.1	17.4	20.2	25.4	29.7	33.3
55°	10.2	10.7	11.1	11.3	11.6	12.5	13.7	15.7	18.8	21.3	25.6
52.5°	10.2	10.6	10.9	11.2	11.4	11.4	11.5	12.9	14.8	17.6	20.1
50°	10.3	10.7	11.0	11.3	11.5	11.5	11.4	11.4	13.2	15.3	17.3
47.5°	11.5	11.7	11.4	11.6	12.7	12.0	11.9	12.7	14.3	14.3	16.2
45°	15.2	15.7	14.1	16.0	17.0	16.4	14.0	17.1	18.0	17.6	15.9
42.5°	25.4	25.4	24.1	28.1	29.4	27.4	24.8	27.3	26.2	23.6	26.5
40°	44.2	42.4	44.0	48.4	49.7	46.4	47.3	44.2	41.2	34.8	45.2
37.5°	73.9	71.4	75.6	77.2	77.1	78.5	78.0	71.4	62.2	67.5	75.6
35°	118.8	115.9	120.5	118.5	113.8	125.7	121.9	107.2	99.8	108.1	113.5
32.5°	197.0	193.6	186.5	177.5	182.9	188.6	180.8	159.0	162.1	162.1	156.1
30°	318.4	303.8	278.5	279.7	289.7	273.7	253.3	260.9	250.1	227.9	206.0
27.5°	517.5	462.7	422.3	447.5	436.2	398.0	404.2	392.9	356.4	315.3	285.6
25°	830.9	736.8	716.6	702.5	647.1	635.5	638.8	585.6	499.4	439.5	480.2
22.5°	1260.4	1234.1	1154.4	1032.6	1058.1	1042.9	953.8	832.6	742.9	807.9	756.1
20°	2095.2	2000.0	1770.5	1820.7	1816.6	1555.0	1347.8	1364.2	1416.2	1302.9	1102.6
17.5°	3808.2	3340.6	3175.3	3208.7	2913.6	2379.3	2380.8	2406.2	2228.3	1897.4	1508.6
15°	6321.0	5877.0	5509.6	5053.9	4518.5	4179.5	3896.9	3632.4	3179.1	2612.9	2099.7
12.5°	9789.4	8906.1	8094.0	7378.8	6768.1	6187.8	5631.3	5035.3	4296.9	3590.7	2998.6
10°	13376.0	12080.5	10998.7	9982.2	9069.5	8250.4	7369.0	6461.6	5533.6	4653.6	3897.7
7.5°	16697.4	15230.9	13872.4	12453.6	11126.8	10019.9	8962.6	7870.4	6751.7	5705.6	4788.3
5°	19535.4	17720.7	16018.5	14397.1	12935.6	11708.7	10520.1	9255.7	7937.3	6734.1	5658.5
2.5°	21443.9	19627.2	17902.2	16157.8	14505.2	13103.4	11741.9	10295.0	8770.2	7351.6	6138.3
0°	22754.7	20729.6	18875.8	16960.3	15209.4	13834.2	12468.1	11001.5	9399.1	7842.3	6577.9
-2.5°	22136.4	20201.5	18474.2	16628.8	14899.0	13509.4	12178.8	10845.0	9273.2	7788.9	6569.6
-5°	20931.2	19034.3	17318.2	15591.8	13992.3	12718.6	11524.8	10347.8	8939.6	7619.3	6511.5
-7.5°	19011.9	17461.3	15962.7	14375.2	12894.3	11706.4	10605.0	9495.6	8255.8	7080.5	6070.5
-10°	16804.6	15496.4	14188.4	12835.3	11647.8	10625.2	9628.2	8614.5	7536.6	6508.8	5605.6
-12.5°	14652.1	13520.6	12343.4	11182.4	10274.4	9467.7	8648.7	7750.6	6796.4	5912.9	5130.0
-15°	12425.0	11728.7	10859.4	9837.0	8958.1	8346.0	7708.4	6975.8	6152.9	5347.9	4653.4
-17.5°	11090.2	10286.9	9572.4	8843.0	8087.5	7343.5	6834.4	6254.6	5584.8	4906.5	4284.1
-20°	9964.3	9328.3	8646.4	8019.7	7405.3	6776.5	6146.8	5586.0	5053.5	4500.7	3978.2



REPORT NUMBER: P731424 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	9060.8	8523.5	7950.8	7340.4	6787.5	6258.2	5699.2	5114.4	4552.5	4104.9	3672.2
-25°	8317.0	7822.2	7340.2	6823.7	6270.5	5755.5	5269.4	4762.0	4241.5	3746.4	3374.0
-27.5°	7672.2	7251.7	6801.2	6340.9	5850.6	5343.2	4882.0	4428.6	3967.9	3522.5	3107.3
-30°	7120.7	6750.0	6341.9	5909.4	5473.6	5012.1	4545.0	4134.4	3724.8	3317.2	2930.1
-32.5°	6643.4	6318.9	5942.6	5532.7	5125.0	4714.0	4290.5	3859.2	3489.3	3131.0	2776.0
-35°	6244.8	5930.6	5567.8	5190.5	4816.9	4437.0	4038.8	3644.0	3279.0	2945.7	2619.6
-37.5°	5818.4	5531.8	5197.3	4852.2	4516.2	4164.7	3793.3	3430.9	3082.5	2770.8	2473.6
-40°	5373.4	5104.0	4823.7	4513.6	4200.5	3886.3	3546.1	3208.8	2896.2	2598.2	2324.5
-42.5°	4929.2	4691.4	4443.4	4160.2	3873.6	3590.2	3290.7	2989.2	2702.8	2431.5	2176.2
-45°	4492.5	4277.0	4048.0	3814.9	3557.5	3297.8	3034.2	2770.6	2512.6	2262.7	2020.8
-47.5°	4068.6	3880.0	3684.0	3483.8	3249.1	3011.5	2787.4	2556.6	2318.5	2086.5	1872.7
-50°	3663.1	3505.1	3333.1	3149.5	2948.0	2740.7	2540.8	2335.5	2121.2	1918.6	1720.7
-52.5°	3295.2	3148.3	2990.1	2823.3	2659.4	2482.3	2296.6	2118.2	1933.3	1747.4	1569.4
-55°	2921.9	2799.4	2667.7	2532.8	2393.3	2227.7	2063.6	1902.9	1740.0	1570.8	1421.4
-57.5°	2571.5	2472.3	2356.1	2235.1	2110.0	1971.6	1828.4	1683.2	1547.6	1408.4	1273.7
-60°	2224.1	2139.6	2042.9	1942.1	1837.7	1720.8	1601.5	1481.8	1362.3	1249.7	1135.6
-62.5°	1898.1	1826.1	1747.2	1668.4	1584.1	1490.9	1388.4	1291.4	1194.9	1097.0	1002.9
-65°	1611.4	1553.6	1487.2	1421.7	1351.9	1277.4	1192.6	1112.9	1035.5	956.2	874.0
-67.5°	1365.4	1313.1	1256.6	1200.9	1146.8	1084.8	1018.4	950.6	887.5	822.4	753.5
-70°	1181.6	1136.4	1087.8	1034.8	980.9	925.3	871.5	816.9	757.8	703.1	651.0
-72.5°	1055.0	1009.0	960.7	910.4	856.0	804.7	759.4	715.6	667.8	615.8	566.1
-75°	946.8	903.9	861.4	816.8	771.5	725.7	678.8	634.1	590.6	548.5	506.3
-77.5°	808.5	771.2	733.1	693.8	656.8	622.7	589.9	550.6	508.1	468.1	428.6
-80°	610.1	583.0	556.2	530.1	504.1	478.4	452.2	421.9	393.2	364.2	332.6
-82.5°	388.0	375.4	362.0	346.3	329.8	312.7	294.8	273.7	252.8	232.3	211.8
-85°	191.1	187.6	183.4	176.8	169.8	162.3	154.4	145.3	135.9	126.4	116.7
-87.5°	70.0	69.1	68.1	66.0	63.8	61.6	59.4	56.9	54.3	51.7	48.9
-90°	2.9	3.1	3.4	3.7	4.0	4.3	4.6	4.6	4.6	4.6	4.6



REPORT NUMBER: P731424 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-7F-CV5

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	11.7	10.9	10.0	9.1	8.8	8.6	8.3	8.0	7.7	7.5	7.2
87.5°	7.7	8.3	8.8	9.2	8.6	8.0	7.5	7.0	7.1	7.1	7.1
85°	14.3	14.1	14.0	14.1	12.9	11.4	10.4	9.4	9.6	9.7	9.6
82.5°	24.2	22.4	21.0	20.0	19.3	18.3	16.8	14.8	13.2	12.3	12.1
80°	39.7	35.4	31.5	28.1	26.2	25.2	23.9	21.8	18.4	15.9	14.4
77.5°	53.4	48.0	43.0	37.9	33.7	30.5	28.6	27.4	23.4	19.3	16.5
75°	65.3	58.6	52.2	46.0	40.2	35.5	31.8	29.0	25.6	22.4	18.6
72.5°	73.4	66.5	60.0	53.0	45.4	39.1	34.2	30.6	27.0	23.5	20.2
70°	79.2	72.6	65.6	57.7	49.7	42.1	35.9	31.7	28.2	24.5	21.0
67.5°	82.8	75.4	68.7	61.5	53.2	45.0	37.3	32.7	29.1	25.4	21.7
65°	74.0	72.4	70.1	62.4	55.1	47.6	39.4	34.0	29.9	26.2	22.4
62.5°	62.8	64.1	62.9	61.1	55.4	48.3	41.5	36.0	30.8	26.8	23.0
60°	49.0	52.6	55.0	54.5	52.7	48.1	42.1	37.8	32.3	27.5	23.5
57.5°	38.0	41.6	45.3	47.5	47.1	45.3	42.3	38.4	33.6	28.4	24.1
55°	28.8	33.0	37.0	40.1	41.5	40.7	41.3	38.5	34.6	29.4	24.9
52.5°	23.2	26.6	30.3	33.8	36.1	36.8	38.5	38.5	34.6	30.2	25.9
50°	19.6	23.4	25.9	28.6	31.4	33.7	35.9	36.7	34.6	30.6	27.0
47.5°	19.6	23.3	24.8	25.2	27.4	31.0	33.6	34.8	34.5	30.5	28.1
45°	23.7	26.3	26.4	25.7	25.2	29.3	31.5	33.2	33.1	31.2	29.2
42.5°	31.9	33.9	31.6	27.3	30.0	28.8	29.7	31.6	31.9	32.1	30.1
40°	49.0	46.0	39.8	39.2	39.5	29.5	30.0	30.3	31.1	32.9	31.0
37.5°	71.3	64.9	54.3	57.9	53.9	41.5	31.1	29.2	31.9	33.5	31.9
35°	106.7	90.2	84.0	83.6	74.9	56.4	33.0	29.4	33.3	34.3	32.8
32.5°	149.1	134.4	128.1	114.5	99.8	74.3	43.2	35.1	35.5	35.5	33.8
30°	204.5	210.9	181.4	148.8	128.7	97.9	64.6	42.3	38.4	36.9	34.9
27.5°	314.8	304.5	247.0	197.2	160.9	127.2	101.3	50.9	42.0	38.8	36.0
25°	460.0	417.5	337.7	254.9	195.2	215.6	147.3	61.6	48.1	41.6	37.2
22.5°	655.9	551.3	439.7	317.8	328.8	327.8	211.0	96.6	55.8	44.7	38.5
20°	883.9	703.4	592.2	549.6	496.0	447.7	296.9	136.5	64.0	48.2	39.9
17.5°	1150.5	1035.5	974.8	833.0	689.5	578.6	395.5	180.4	72.8	51.9	41.4
15°	1792.0	1592.8	1400.6	1145.6	898.8	718.5	504.0	227.1	81.9	55.8	45.6
12.5°	2530.8	2175.5	1859.4	1480.6	1119.9	864.9	619.4	275.2	91.1	64.7	53.3
10°	3284.0	2775.7	2341.6	1830.6	1348.5	1015.4	738.3	329.1	112.8	77.8	61.3
7.5°	4041.6	3384.2	2836.5	2187.4	1573.8	1162.6	864.3	393.3	136.7	91.1	69.5
5°	4731.7	3897.9	3238.2	2474.4	1761.7	1301.6	986.4	454.9	160.6	104.4	77.7
2.5°	5141.8	4249.0	3564.1	2736.9	1939.7	1434.6	1100.2	512.4	184.1	117.5	85.8
0°	5517.9	4575.6	3865.2	2978.8	2105.1	1560.2	1202.7	564.2	206.7	130.2	93.7
-2.5°	5488.2	4581.5	3857.7	3014.9	2179.6	1625.7	1247.1	627.7	269.5	175.7	123.7
-5°	5425.0	4560.2	3825.3	3027.9	2238.4	1681.1	1278.5	684.0	330.2	220.1	152.9
-7.5°	5145.0	4392.7	3719.7	3005.7	2280.8	1725.0	1298.4	733.3	387.9	262.5	181.0
-10°	4801.9	4131.5	3514.5	2861.0	2217.1	1720.3	1302.6	775.7	442.0	302.6	207.5
-12.5°	4447.2	3860.3	3302.0	2706.0	2127.4	1672.7	1262.1	793.0	489.7	339.6	232.0
-15°	4087.1	3583.5	3087.5	2544.4	2030.9	1618.8	1218.2	796.7	518.7	369.8	254.2
-17.5°	3746.3	3305.5	2875.7	2379.9	1929.7	1559.5	1173.1	796.8	543.9	392.9	273.4
-20°	3505.6	3075.7	2670.0	2215.6	1825.6	1495.8	1128.8	793.9	565.2	413.2	290.1



REPORT NUMBER: P731424 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-7F-CV5

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	3266.2	2882.2	2493.2	2077.8	1729.4	1428.4	1087.2	788.7	582.5	430.6	304.4
-25°	3024.9	2686.2	2327.1	1968.5	1645.4	1363.7	1059.3	781.7	595.5	445.0	316.2
-27.5°	2799.4	2492.9	2168.2	1858.7	1571.7	1308.6	1042.0	792.4	606.2	456.2	325.3
-30°	2582.2	2318.3	2036.7	1754.9	1494.8	1253.9	1025.0	798.7	616.8	465.1	331.7
-32.5°	2433.9	2158.4	1914.5	1665.5	1424.8	1196.4	992.6	799.6	623.4	471.0	337.3
-35°	2318.4	2039.0	1797.9	1574.6	1356.1	1145.6	952.4	794.9	625.7	473.2	341.1
-37.5°	2192.1	1935.3	1697.8	1488.7	1284.9	1090.4	917.4	768.9	623.9	471.5	342.1
-40°	2068.8	1826.9	1604.9	1408.6	1217.5	1030.9	878.5	741.8	618.1	466.0	340.5
-42.5°	1935.7	1716.0	1513.1	1326.3	1148.0	983.6	836.8	710.7	593.0	459.8	336.2
-45°	1804.9	1601.3	1416.7	1243.9	1077.4	932.6	798.0	676.2	563.1	451.6	329.7
-47.5°	1668.5	1488.0	1317.8	1156.0	1016.6	879.5	755.0	639.5	530.6	439.5	321.0
-50°	1537.0	1372.1	1216.5	1075.0	947.5	826.8	708.6	599.8	500.6	413.5	309.5
-52.5°	1406.8	1256.8	1118.6	992.2	878.7	769.6	660.9	557.7	467.8	386.0	295.2
-55°	1276.4	1143.9	1020.8	910.7	807.5	710.4	610.0	517.0	432.5	356.9	278.4
-57.5°	1150.9	1030.2	927.1	829.0	735.3	646.9	558.6	473.4	396.5	326.2	260.5
-60°	1026.0	927.8	834.4	745.8	661.1	582.5	505.4	428.2	359.1	294.6	236.7
-62.5°	911.5	823.7	739.6	659.9	587.4	518.2	450.2	383.3	320.0	264.7	210.6
-65°	797.1	719.4	642.3	578.4	515.0	454.6	397.0	336.6	284.1	234.0	185.3
-67.5°	683.8	622.8	556.6	497.7	448.1	397.4	342.8	294.5	248.6	202.4	163.1
-70°	595.6	535.7	479.4	433.0	388.2	341.6	297.9	254.1	212.2	177.0	140.6
-72.5°	520.4	471.2	418.5	371.6	335.8	296.8	254.6	215.0	183.9	151.4	117.7
-75°	459.7	410.2	364.2	325.1	289.8	251.8	215.0	184.1	155.3	125.4	97.3
-77.5°	386.4	347.3	311.5	272.7	236.6	204.6	176.9	152.8	125.8	100.0	77.2
-80°	296.6	262.7	231.2	202.3	177.3	155.6	135.8	115.8	93.7	74.0	56.6
-82.5°	188.8	170.1	153.1	137.0	121.7	106.4	91.4	76.4	61.0	47.4	39.1
-85°	106.3	96.3	86.8	77.9	67.3	56.9	50.6	44.6	38.9	33.5	28.6
-87.5°	46.8	44.6	42.3	39.9	36.3	32.8	29.5	26.3	23.3	20.5	17.9
-90°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6



REPORT NUMBER: P731424 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	6.9	6.6	6.3	6.0	5.7	5.2	4.6
87.5°	7.0	6.4	5.9	5.5	5.1	4.8	4.6
85°	9.3	8.2	7.2	6.3	5.6	5.0	4.6
82.5°	11.6	9.9	8.4	7.1	6.1	5.2	4.6
80°	13.8	11.7	9.7	8.0	6.6	5.4	4.6
77.5°	14.8	13.0	10.9	8.8	7.0	5.6	4.6
75°	15.8	13.5	11.9	9.6	7.5	5.8	4.6
72.5°	16.8	14.1	12.1	10.4	8.0	6.0	4.6
70°	17.6	14.5	12.3	11.0	8.4	6.1	4.6
67.5°	18.3	14.9	12.4	10.9	8.8	6.3	4.6
65°	19.0	15.4	12.5	10.9	9.2	6.5	4.6
62.5°	19.6	16.0	12.5	10.8	9.6	6.6	4.6
60°	20.3	16.6	12.5	10.6	10.0	6.8	4.6
57.5°	21.0	17.2	13.0	10.5	9.9	6.9	4.6
55°	21.8	17.8	13.5	10.3	9.8	7.1	4.6
52.5°	22.6	18.4	14.0	10.1	9.7	7.2	4.6
50°	23.5	19.2	14.4	9.9	9.7	7.4	4.6
47.5°	24.4	19.9	14.9	9.7	9.6	7.5	4.6
45°	25.3	20.7	15.3	10.1	9.6	7.6	4.6
42.5°	26.3	21.5	15.7	10.4	9.5	7.7	4.6
40°	27.2	22.3	16.2	10.9	9.5	7.8	4.6
37.5°	28.2	23.1	16.8	11.5	9.5	7.9	4.6
35°	29.1	23.9	17.4	12.1	9.5	7.9	4.6
32.5°	29.9	24.6	18.0	12.7	9.5	8.0	4.6
30°	30.7	25.2	18.5	13.3	9.6	8.0	4.6
27.5°	31.5	25.9	19.6	13.9	9.6	8.1	4.6
25°	32.3	26.5	20.9	14.5	9.6	8.1	4.6
22.5°	33.1	27.5	22.1	15.1	9.7	8.1	4.6
20°	33.9	29.6	23.4	15.7	9.8	8.2	4.6
17.5°	36.9	31.9	24.6	16.3	9.8	8.2	4.6
15°	41.3	34.2	25.8	16.8	9.9	8.2	4.6
12.5°	45.9	36.6	27.0	17.3	10.0	8.2	4.6
10°	50.7	39.0	28.1	17.8	10.0	8.1	4.6
7.5°	55.6	41.4	29.2	18.3	10.1	8.1	4.6
5°	60.4	43.7	30.2	18.7	10.2	8.1	4.6
2.5°	65.1	45.9	31.1	19.1	10.2	8.0	4.6
0°	69.7	48.0	32.0	19.4	10.3	8.0	4.6
-2.5°	87.9	58.4	37.4	21.8	11.1	8.2	4.6
-5°	105.6	68.5	42.6	24.1	11.9	8.3	4.6
-7.5°	122.6	78.3	47.6	26.3	12.6	8.5	4.6
-10°	138.6	87.4	52.3	28.3	13.4	8.6	4.6
-12.5°	153.4	96.0	56.7	30.3	14.1	8.8	4.6
-15°	166.9	103.7	60.7	32.0	14.7	8.9	4.6
-17.5°	178.7	110.6	64.3	33.6	15.3	9.0	4.6
-20°	189.9	116.5	67.3	34.9	15.9	9.1	4.6



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 CATALOG NUMBER: EPH-LS-08-0320N-57-70-7F-CV5

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	201.2	121.4	69.8	36.0	16.4	9.2	4.6
-25°	210.7	127.6	71.7	36.8	16.8	9.2	4.6
-27.5°	218.6	133.6	73.0	37.4	17.2	9.3	4.6
-30°	224.6	138.2	74.0	37.7	17.5	9.3	4.6
-32.5°	228.6	141.5	76.3	37.7	17.7	9.3	4.6
-35°	231.8	143.4	77.9	37.4	17.8	9.3	4.6
-37.5°	233.4	144.3	78.5	36.8	17.9	9.3	4.6
-40°	232.8	144.6	78.2	35.9	17.9	9.3	4.6
-42.5°	230.0	143.4	77.6	35.0	17.8	9.2	4.6
-45°	225.2	140.7	76.9	34.5	17.6	9.1	4.6
-47.5°	218.1	136.6	75.3	33.4	17.4	9.0	4.6
-50°	210.4	131.0	73.0	33.1	17.0	8.9	4.6
-52.5°	200.9	123.9	69.9	32.7	16.6	8.8	4.6
-55°	189.4	117.6	66.0	32.1	16.1	8.6	4.6
-57.5°	175.9	110.6	61.3	31.0	15.6	8.5	4.6
-60°	161.0	102.4	56.1	29.7	14.9	8.3	4.6
-62.5°	147.7	93.1	52.7	28.1	14.4	8.1	4.6
-65°	133.1	82.8	48.7	26.1	13.8	7.9	4.6
-67.5°	117.1	73.5	44.2	23.9	13.1	7.6	4.6
-70°	99.9	65.3	39.3	21.5	12.4	7.4	4.6
-72.5°	85.9	56.4	34.0	19.7	11.6	7.1	4.6
-75°	71.8	46.9	28.3	17.9	10.9	6.9	4.6
-77.5°	56.9	37.0	24.5	16.1	10.1	6.6	4.6
-80°	41.4	29.8	21.0	14.2	9.2	6.3	4.6
-82.5°	32.3	24.2	17.5	12.2	8.4	6.0	4.6
-85°	23.9	18.4	13.8	10.2	7.5	5.7	4.6
-87.5°	15.5	12.5	10.1	8.1	6.6	5.4	4.6
-90°	4.6	4.6	4.6	4.6	4.6	4.6	4.6

(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

