

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: P731637 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-80-5S-VHE**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731637 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-5)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680N-40-80-5S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 5S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

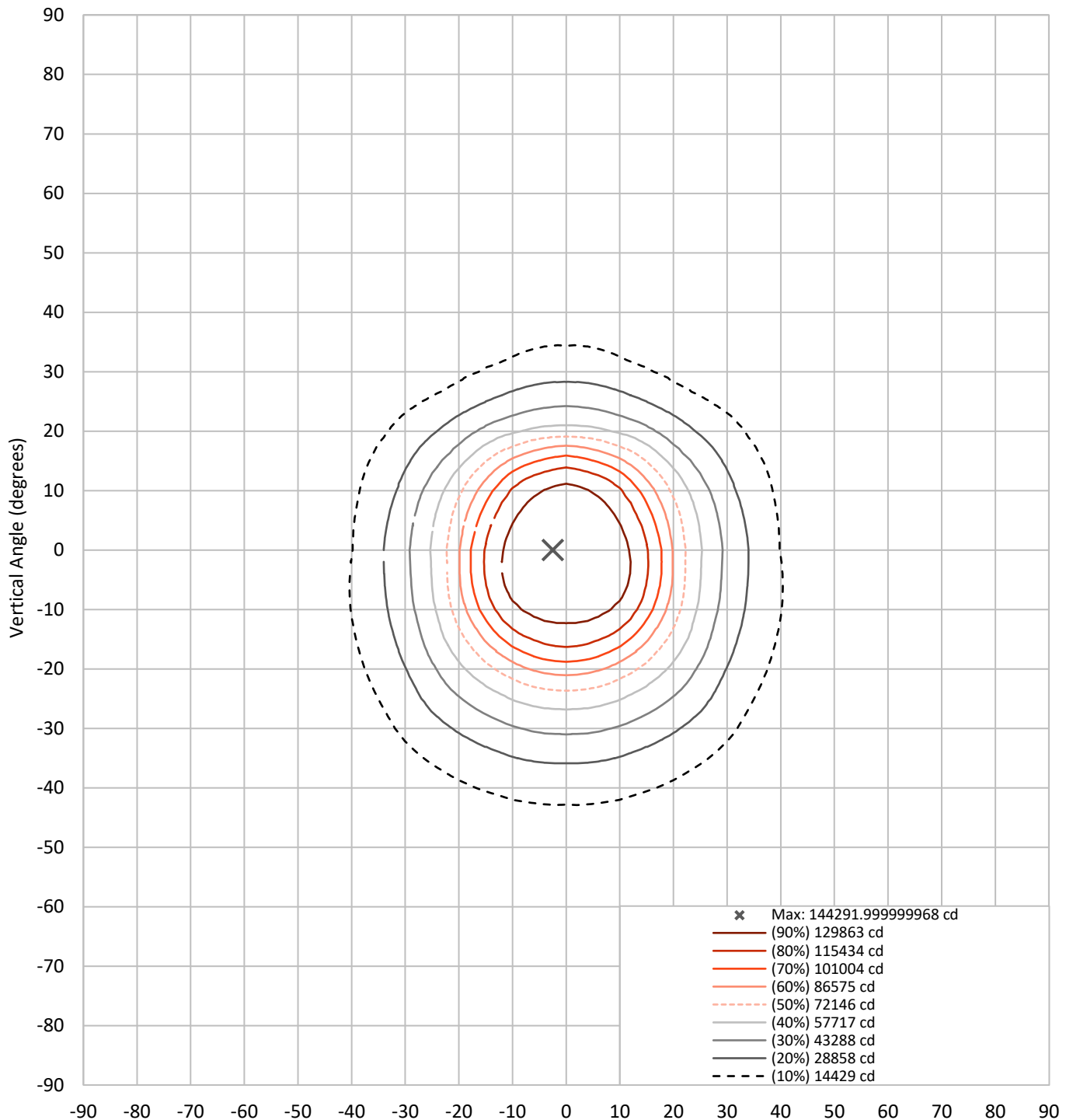
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	93953.6 lumens	Max Intensity:	144292 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	134.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	44.5°H x 42.5°V	Field Angle (10%):	79.6°H x 77.3°V
Beam Lumens:	51589.4 lumens	Field Lumens:	86331.9 lumens
Beam Efficiency:	54.9%	Field Efficiency:	91.9%

Input Watts (W): 697.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Candela Plot





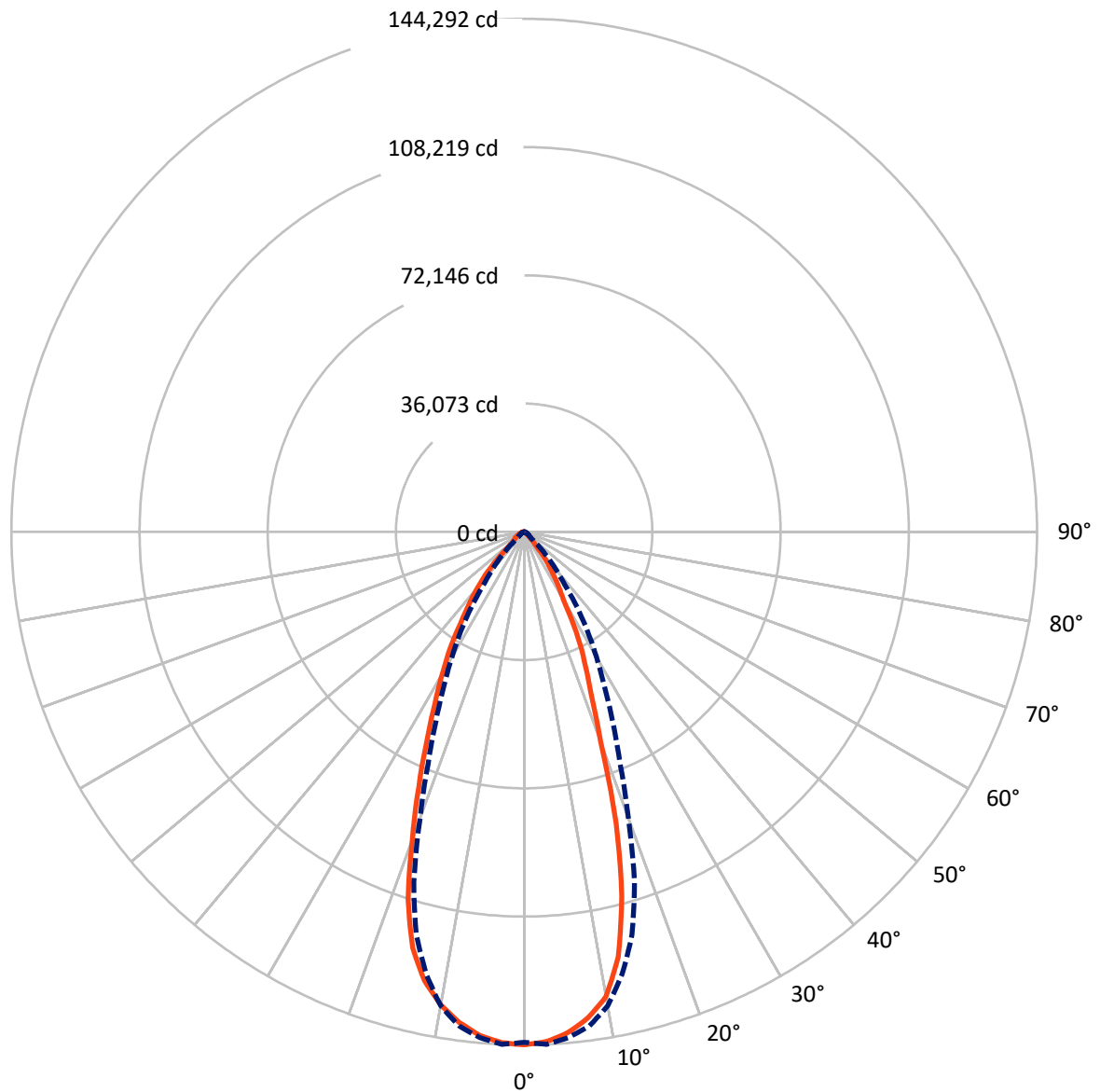
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Lumen Table

90	0.4		1.4		2.4		3.2		3.7		3.2		2.4		1.4		0.4																	
80	0.4		0.2		0.3		0.5		0.7		0.7		0.8		1.0		1.0		0.8		0.7		0.7		0.5		0.3		0.2		0.4			
70	0.4		0.5		0.8		1.3		1.4		1.0		1.2		1.4		1.4		1.2		1.0		1.4		1.3		0.8		0.5		0.4			
60	1.1		1.3		2.8		5.7		10.1		20.6		45.6		61.5		61.5		45.6		20.6		10.1		5.7		2.8		1.3		1.1			
50	1.1		2.8		9.3		19.1		48.3		143.4		265.6		391.4		391.4		265.6		143.4		48.3		19.1		9.3		2.8		1.1			
40	2.3		4.9		16.2		41.4		198.9		470.2		864.4		1186.7		1186.7		864.4		470.2		198.9		41.4		16.2		4.9		2.3			
30	2.3		6.7		21.7		93.5		434.4		1073.9		2089.5		2986.2		2986.2		2089.5		1073.9		434.4		93.5		21.7		6.7		2.3			
20	3.4		8.3		25.5		141.9		611.6		1559.4		3128.5		4150.1		4150.1		3128.5		1559.4		611.6		141.9		25.5		8.3		3.4			
10	3.4		9.2		28.5		151.3		659.0		1635.3		3319.0		4215.0		4215.0		3319.0		1635.3		659.0		151.3		28.5		9.2		3.4			
0	4.1		9.5		29.9		124.7		561.1		1366.6		2574.5		3476.2		3476.2		2574.5		1366.6		561.1		124.7		29.9		9.5		4.1			
-10	4.1		9.1		29.9		77.4		363.9		904.9		1504.7		1950.5		1950.5		1504.7		904.9		363.9		77.4		29.9		9.1		4.1			
-20	4.1		8.1		26.2		55.8		148.1		440.2		740.7		941.0		941.0		740.7		440.2		148.1		55.8		26.2		8.1		4.1			
-30	4.1		6.8		19.4		42.2		71.5		116.8		218.5		306.3		306.3		218.5		116.8		71.5		42.2		19.4		6.8		4.1			
-40	3.7		5.6		12.9		26.5		46.8		65.5		80.6		92.2		92.2		80.6		65.5		46.8		26.5		12.9		5.6		3.7			
-50	3.7		4.5		8.6		14.9		24.2		33.1		42.2		48.5		48.5		42.2		33.1		24.2		14.9		8.6		4.5		3.7			
-60	3.7		4.5		8.6		14.9		24.2		33.1		42.2		48.5		48.5		42.2		33.1		24.2		14.9		8.6		4.5		3.7			
-70	3.7		4.5		8.6		14.9		24.2		33.1		42.2		48.5		48.5		42.2		33.1		24.2		14.9		8.6		4.5		3.7			
-80	2.7		16.4		36.3		57.1		70.0		57.1		36.3		16.4		2.7		16.4		36.3		57.1		70.0		57.1		36.3		16.4		2.7	
-90	2.7		16.4		36.3		57.1		70.0		57.1		36.3		16.4		2.7		16.4		36.3		57.1		70.0		57.1		36.3		16.4		2.7	

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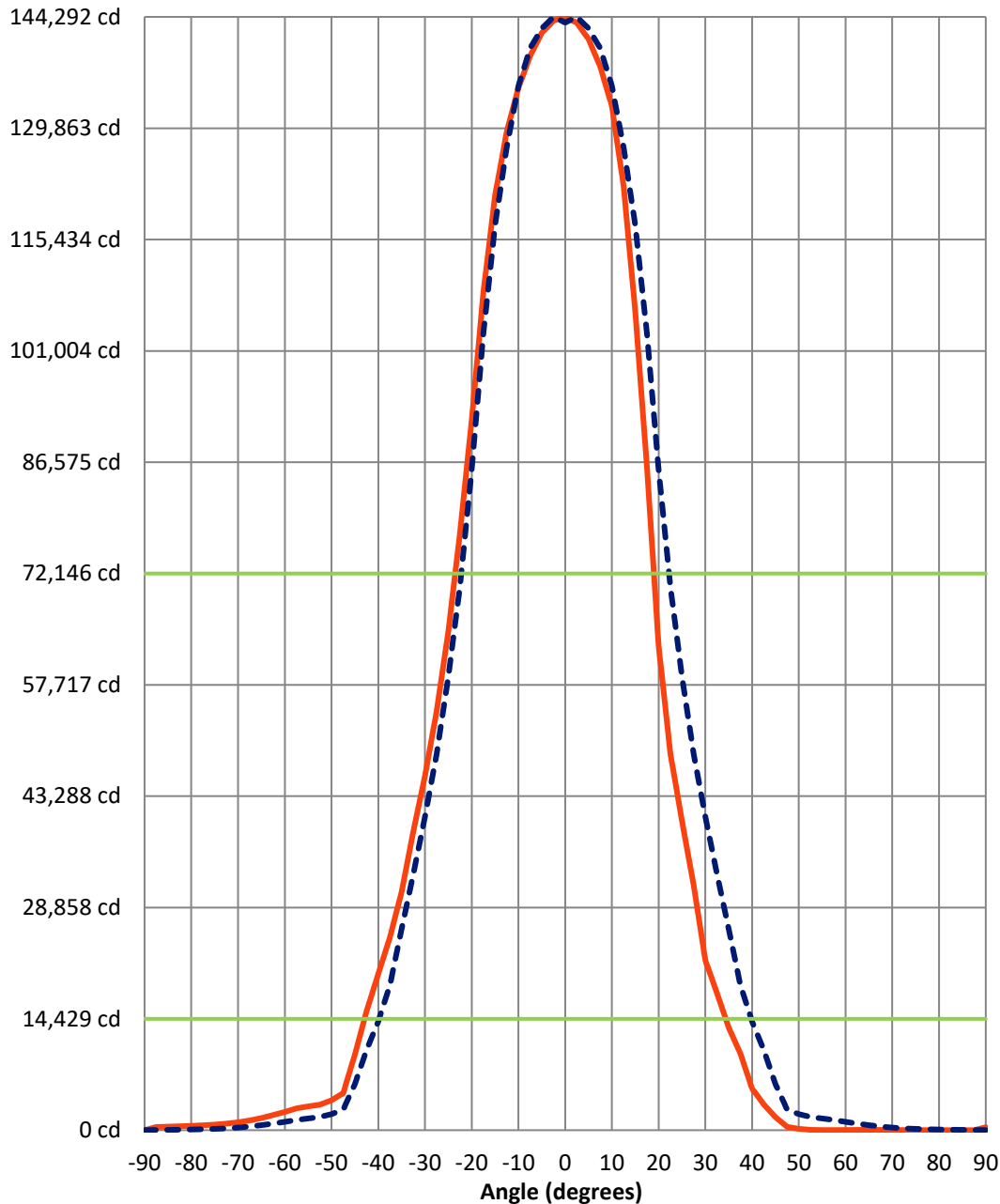
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 44.5°
 V Angle: 42.5°
 Lumens: 51589.4
 Efficiency: 54.9%

Field:
 H Angle: 79.6°
 V Angle: 77.3°
 Lumens: 86331.9
 Efficiency: 91.9%

Spill:
 Lumens: 7621.7
 Efficiency: 8.1%

— 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°	12.5	24.4	36.3	60.1	83.9	106.0	128.1	146.3	164.4	177.5	190.5
87.5°	12.5	11.6	10.5	10.6	10.6	10.7	10.8	10.3	9.9	9.7	9.6
85°	12.5	11.8	10.8	10.9	11.0	11.2	11.4	11.0	10.6	10.4	10.0
82.5°	12.5	12.1	11.1	11.3	11.4	11.7	12.0	11.7	11.4	11.0	10.5
80°	12.5	12.4	11.4	11.7	11.8	12.2	12.6	12.4	12.2	11.7	11.1
77.5°	12.5	12.6	11.8	12.1	12.2	12.8	13.2	13.1	13.0	12.5	11.7
75°	12.5	12.9	12.1	12.5	12.7	13.5	13.8	13.8	13.8	13.1	12.3
72.5°	12.5	13.1	12.5	12.8	13.5	14.3	14.5	14.5	14.3	13.6	12.9
70°	12.5	13.4	12.8	13.3	14.3	15.1	15.2	15.3	15.0	14.2	13.9
67.5°	12.5	13.7	13.2	13.9	15.1	15.9	16.2	16.2	15.7	15.5	15.1
65°	12.5	13.9	13.6	14.6	15.9	16.8	17.2	17.2	17.2	16.8	16.8
62.5°	12.5	14.2	14.1	15.3	16.7	17.7	18.3	18.7	18.9	18.6	19.6
60°	12.5	14.5	14.5	15.9	17.6	18.7	19.3	20.5	20.7	22.5	22.8
57.5°	12.5	14.8	15.2	16.6	18.7	19.7	21.5	22.4	25.5	27.2	29.0
55°	12.5	15.0	16.0	17.2	19.9	20.6	24.0	24.8	31.6	33.8	37.4
52.5°	12.5	15.3	16.8	17.9	21.2	21.9	26.7	31.2	38.4	44.0	46.7
50°	12.5	15.6	17.7	18.5	22.7	25.1	29.7	38.2	46.7	54.8	60.4
47.5°	12.5	15.9	18.6	19.3	24.2	28.4	33.3	45.3	57.3	66.4	75.6
45°	12.5	16.1	19.6	20.6	25.8	31.9	39.5	52.5	68.1	81.1	91.8
42.5°	12.5	16.4	20.6	21.8	27.5	35.5	45.8	61.3	79.3	96.5	116.2
40°	12.5	16.7	21.6	23.7	29.9	39.3	52.5	71.3	91.7	112.4	143.3
37.5°	12.5	17.0	22.7	26.0	32.9	43.3	59.7	81.5	106.1	131.4	171.9
35°	12.5	17.3	23.8	28.3	35.9	48.5	67.0	91.9	120.9	157.3	204.9
32.5°	12.5	17.5	25.0	30.7	39.0	54.3	74.8	102.7	136.1	183.6	242.6
30°	12.5	17.8	26.1	33.1	42.0	60.0	84.0	114.2	151.5	210.4	279.5
27.5°	12.5	18.1	27.3	35.5	46.2	65.7	92.9	126.7	168.9	237.5	315.7
25°	12.5	18.3	28.5	38.0	50.4	71.3	101.6	138.7	189.0	266.6	351.1
22.5°	12.5	18.6	29.7	40.5	54.5	77.0	110.0	150.2	207.9	291.6	388.6
20°	12.5	18.8	30.9	42.9	58.5	83.2	118.2	161.2	225.7	315.3	420.0
17.5°	12.5	19.0	32.1	45.4	62.5	89.1	126.3	171.5	242.3	337.6	449.6
15°	12.5	19.3	33.3	47.8	66.3	94.7	134.2	181.6	257.6	358.3	477.7
12.5°	12.5	19.5	34.5	50.2	70.0	100.1	141.7	191.6	273.0	377.4	504.0
10°	12.5	19.7	35.6	52.6	73.6	105.2	148.6	200.9	288.4	399.9	531.8
7.5°	12.5	19.9	36.7	54.9	77.0	110.0	155.0	209.6	302.6	421.8	565.1
5°	12.5	20.1	37.8	57.1	80.2	114.5	161.0	217.6	315.5	442.0	596.4
2.5°	12.5	20.2	38.8	59.2	83.3	118.7	166.4	224.8	326.9	460.2	625.1
0°	12.5	20.4	39.7	61.2	86.2	122.5	171.2	231.3	336.8	476.2	650.9
-2.5°	12.5	21.2	41.4	63.9	90.2	128.1	178.5	240.7	348.3	489.7	664.2
-5°	12.5	22.0	43.0	66.5	94.0	133.3	185.2	249.2	358.1	500.7	674.0
-7.5°	12.5	22.7	44.6	68.9	97.6	138.1	191.3	256.8	366.0	509.0	680.4
-10°	12.5	23.4	46.0	71.2	100.9	142.5	196.6	263.4	372.1	514.5	683.4
-12.5°	12.5	24.1	47.4	73.3	103.9	146.4	201.3	269.0	376.2	517.5	688.2
-15°	12.5	24.8	48.6	75.3	106.7	149.8	205.2	273.4	378.5	518.3	690.7
-17.5°	12.5	25.4	49.8	77.1	109.2	152.7	208.4	277.3	379.1	516.1	687.8
-20°	12.5	26.0	50.8	78.7	111.5	155.1	211.3	280.6	377.7	510.8	679.3



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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°	12.5	26.6	51.8	80.2	113.4	156.9	214.2	282.8	374.3	502.3	665.7
-25°	12.5	27.1	52.6	81.5	114.9	159.1	216.3	284.0	369.0	490.7	653.8
-27.5°	12.5	27.6	53.3	82.6	116.2	161.2	217.6	284.2	361.7	482.9	645.1
-30°	12.5	28.0	53.9	83.5	117.2	162.8	218.0	283.4	358.6	476.6	631.5
-32.5°	12.5	28.4	54.4	84.2	119.2	163.8	217.5	282.7	358.3	467.1	612.6
-35°	12.5	28.7	54.8	84.7	120.9	164.3	217.6	281.6	356.3	454.2	588.5
-37.5°	12.5	29.0	55.1	85.0	122.2	164.8	217.6	279.9	352.5	438.1	566.7
-40°	12.5	29.3	55.2	85.1	123.2	166.1	216.9	277.0	346.9	428.3	545.6
-42.5°	12.5	29.5	55.2	85.3	124.1	166.9	215.7	273.0	341.4	420.2	520.8
-45°	12.5	29.6	55.1	85.8	124.7	167.3	213.8	269.0	335.4	409.8	494.9
-47.5°	12.5	29.7	54.8	86.0	125.0	167.3	211.2	265.8	327.9	397.3	480.4
-50°	12.5	29.8	54.5	86.1	124.8	166.9	210.2	261.7	318.4	386.0	463.2
-52.5°	12.5	29.8	54.0	85.9	124.2	166.1	209.1	256.6	310.3	372.6	442.5
-55°	12.5	29.7	53.4	85.5	123.2	164.6	207.4	251.1	302.3	357.2	421.7
-57.5°	12.5	29.6	52.7	84.9	121.8	162.6	205.1	248.2	293.2	345.0	399.1
-60°	12.5	29.5	51.8	84.0	120.1	160.1	202.3	244.3	284.2	333.0	377.4
-62.5°	12.5	29.3	51.1	82.9	118.4	157.2	198.5	239.5	278.3	319.2	360.1
-65°	12.5	29.0	50.3	81.5	116.3	153.8	194.1	233.9	271.7	308.4	341.8
-67.5°	12.5	28.7	49.4	80.0	114.0	150.1	189.2	227.2	264.4	298.2	327.5
-70°	12.5	28.4	48.3	78.2	111.3	146.1	183.8	219.9	255.5	287.3	314.7
-72.5°	12.5	28.0	47.1	76.5	108.4	141.5	177.3	212.0	245.9	274.9	301.0
-75°	12.5	27.6	45.8	74.7	105.1	136.5	170.2	202.7	235.6	262.1	286.6
-77.5°	12.5	27.1	44.4	72.7	102.1	131.1	162.5	192.7	223.4	248.3	271.7
-80°	12.5	26.7	43.0	70.5	98.9	126.2	154.4	182.1	210.4	232.6	254.3
-82.5°	12.5	26.1	41.4	68.1	95.4	121.6	148.0	172.1	197.0	216.4	235.8
-85°	12.5	25.6	39.8	65.6	91.8	116.6	141.7	163.8	186.3	202.6	218.8
-87.5°	12.5	25.0	38.1	62.9	87.9	111.4	135.0	155.2	175.5	190.1	204.8
-90°	12.5	11.4	10.2	10.2	10.2	10.2	10.2	9.7	9.1	9.1	9.1



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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°	198.5	206.4	213.8	221.1	230.2	239.3	248.9	258.5	268.7	278.9	288.6
87.5°	9.0	8.5	8.5	8.6	8.1	7.5	7.2	6.8	6.3	5.7	5.6
85°	9.6	9.1	9.2	9.1	8.6	8.3	7.8	7.3	6.8	6.3	6.3
82.5°	10.3	10.2	9.8	9.2	9.0	9.0	8.6	8.0	7.5	7.2	7.0
80°	11.0	11.3	10.4	9.6	9.4	9.2	8.6	8.0	7.9	7.9	7.5
77.5°	11.5	11.4	10.8	10.2	9.8	9.4	9.1	8.7	8.4	8.0	7.9
75°	11.9	11.5	11.1	10.5	10.1	10.1	9.9	9.6	9.3	9.3	9.4
72.5°	12.5	12.2	11.7	10.8	10.4	10.7	10.7	10.4	10.7	11.1	11.1
70°	13.5	13.1	12.3	11.5	11.1	11.5	12.0	12.8	13.7	13.9	15.0
67.5°	14.6	14.2	13.1	12.5	12.2	12.9	13.6	16.4	19.1	20.5	22.1
65°	16.2	15.5	14.4	14.3	13.6	16.4	18.7	21.7	27.1	29.7	29.5
62.5°	18.2	18.5	17.1	17.4	19.7	22.2	26.3	32.5	38.8	41.3	39.1
60°	23.1	22.5	22.5	24.1	26.6	29.6	36.0	43.6	50.9	54.8	48.9
57.5°	29.7	29.4	31.2	32.2	35.5	36.5	45.0	54.5	60.7	65.4	57.7
55°	38.8	39.1	42.5	43.5	46.0	45.9	53.2	62.1	68.5	70.7	62.6
52.5°	51.6	52.1	58.1	59.0	58.2	59.0	61.7	71.2	76.6	76.7	69.6
50°	65.4	72.7	76.5	78.9	74.5	77.3	74.8	85.5	93.5	92.7	95.3
47.5°	86.2	95.9	101.3	105.2	101.9	110.4	108.6	125.0	130.6	161.8	166.7
45°	110.7	126.2	133.4	142.2	152.0	162.2	188.6	188.7	262.3	291.4	367.8
42.5°	138.2	161.4	181.5	185.1	234.0	262.4	298.4	372.2	444.1	534.5	568.9
40°	174.6	200.5	241.3	287.5	341.7	403.6	470.5	560.1	654.6	701.4	707.3
37.5°	215.0	263.6	320.6	404.3	487.6	568.9	653.7	741.4	809.4	826.8	890.2
35°	258.4	329.7	436.0	532.1	629.0	741.4	816.9	897.6	938.4	1010.0	1132.1
32.5°	313.0	397.5	529.7	654.6	762.4	884.7	957.0	1018.8	1114.8	1238.8	1508.6
30°	370.0	474.1	607.7	752.0	884.7	987.2	1069.5	1147.1	1297.4	1597.3	2522.2
27.5°	417.5	539.8	680.3	841.1	992.6	1086.1	1179.4	1314.8	1583.4	2201.4	3955.7
25°	460.0	592.9	751.5	938.2	1086.5	1189.4	1310.9	1502.1	1923.5	3600.7	5848.8
22.5°	501.6	645.2	832.8	1040.2	1181.7	1291.0	1474.9	1820.3	2703.4	5061.4	7763.3
20°	544.5	712.0	921.0	1135.0	1272.9	1381.0	1618.2	2129.4	3937.0	6633.7	9452.5
17.5°	589.4	779.4	1006.9	1202.4	1331.4	1475.3	1769.3	2382.8	4966.8	8102.2	11257.6
15°	633.3	844.1	1080.3	1260.5	1384.9	1577.1	1972.3	3130.5	6055.7	9741.9	13187.5
12.5°	675.4	902.8	1137.2	1306.1	1437.7	1672.0	2139.1	3954.2	7365.1	11264.4	14865.4
10°	715.1	955.4	1185.1	1349.3	1495.2	1773.3	2299.7	4760.6	8511.3	12253.8	15900.9
7.5°	755.9	999.3	1225.5	1390.4	1550.6	1868.7	2476.5	5387.1	9367.1	13014.8	16701.0
5°	792.8	1033.0	1264.5	1436.4	1607.7	1953.4	2619.5	5865.9	10009.3	13643.7	17413.6
2.5°	825.0	1059.5	1297.6	1479.8	1663.3	2024.3	2660.7	5999.1	10311.0	13982.0	18114.6
0°	852.7	1079.5	1324.4	1518.3	1713.4	2081.9	2671.5	5975.8	10385.6	14084.5	18797.1
-2.5°	868.4	1105.3	1372.4	1573.6	1758.2	2128.4	2728.0	5984.6	10448.7	14802.4	19674.7
-5°	879.4	1124.7	1411.7	1622.7	1797.9	2161.1	2759.5	5848.6	10363.4	15180.3	19931.3
-7.5°	885.6	1136.9	1440.7	1663.5	1833.9	2184.8	2777.3	5627.3	10368.1	15197.5	19608.6
-10°	888.8	1148.5	1454.3	1686.4	1864.9	2196.2	2768.7	5247.4	9956.5	14786.1	19077.1
-12.5°	899.5	1159.2	1459.0	1703.4	1889.6	2198.8	2781.4	4875.6	9184.5	14037.2	18317.2
-15°	903.7	1162.0	1456.4	1717.4	1929.5	2225.6	2781.8	4298.0	8182.2	13086.9	17361.6
-17.5°	900.9	1156.7	1448.1	1737.6	1966.3	2227.8	2718.7	3540.5	7037.3	11735.1	16103.5
-20°	891.1	1144.8	1430.0	1747.6	1987.4	2246.3	2700.1	3417.5	5915.4	10044.8	14575.8



REPORT NUMBER: P731637 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	876.8	1126.2	1404.0	1725.6	2011.4	2286.7	2674.9	3253.9	4596.1	8113.9	12684.6
-25°	859.8	1105.6	1376.2	1700.2	2022.6	2312.6	2596.4	3035.4	3821.5	6461.8	10343.8
-27.5°	842.0	1076.4	1346.6	1658.0	2015.8	2300.2	2550.2	2914.4	3469.8	4626.4	7904.9
-30°	819.5	1041.4	1303.0	1603.4	1956.1	2262.3	2522.1	2757.7	3137.0	3832.1	5800.1
-32.5°	792.0	1000.3	1254.4	1541.2	1866.1	2216.8	2457.0	2661.7	2950.7	3376.6	4184.1
-35°	760.9	964.1	1200.5	1462.7	1759.4	2102.5	2359.2	2575.8	2771.0	3098.8	3615.1
-37.5°	729.1	919.3	1131.0	1379.6	1662.1	1942.3	2245.1	2461.0	2657.7	2863.5	3231.2
-40°	692.0	863.7	1062.0	1291.9	1531.4	1785.6	2066.6	2337.0	2531.3	2745.7	2966.3
-42.5°	651.5	810.9	988.1	1187.4	1402.4	1631.0	1880.2	2151.2	2411.6	2616.6	2819.3
-45°	618.7	753.8	909.4	1086.9	1272.0	1475.3	1702.7	1940.0	2216.5	2481.9	2669.4
-47.5°	579.2	696.9	840.4	981.2	1148.7	1330.1	1524.3	1749.1	1980.9	2242.4	2498.8
-50°	541.3	649.3	759.6	886.6	1028.7	1188.1	1361.3	1559.3	1773.6	1987.8	2220.4
-52.5°	515.5	598.0	692.0	792.1	916.4	1053.0	1206.5	1374.5	1562.4	1749.6	1951.2
-55°	487.1	558.5	626.0	710.9	808.5	927.1	1060.3	1207.1	1350.4	1521.3	1692.6
-57.5°	459.3	518.6	572.8	638.0	719.5	806.6	927.6	1049.8	1174.3	1306.6	1451.3
-60°	431.2	479.8	527.2	579.8	639.3	716.4	800.5	902.7	1004.4	1110.1	1238.2
-62.5°	403.1	442.6	483.4	528.7	579.2	631.3	700.1	774.5	845.8	942.1	1044.2
-65°	380.5	407.7	441.4	481.3	522.0	569.7	617.7	664.3	726.8	799.8	873.8
-67.5°	356.3	381.8	406.6	434.6	471.4	510.7	550.4	592.1	634.5	684.7	738.7
-70°	338.6	356.7	378.6	401.8	426.0	454.5	489.7	524.4	560.1	601.9	645.0
-72.5°	321.9	338.5	354.9	371.1	392.9	416.5	439.8	463.1	492.8	528.5	562.8
-75°	304.7	320.0	335.0	349.8	366.2	383.8	402.1	423.1	446.2	471.0	494.8
-77.5°	287.2	300.7	314.4	328.0	343.0	358.7	374.7	390.7	408.9	428.1	446.6
-80°	268.5	281.1	293.3	305.5	319.0	332.9	347.2	361.5	377.6	394.2	409.6
-82.5°	247.8	259.0	270.5	281.7	294.3	306.7	319.4	332.0	346.1	360.5	373.6
-85°	228.0	236.7	246.8	256.8	268.2	279.5	290.8	302.0	315.1	328.0	339.4
-87.5°	213.3	221.6	229.8	237.9	247.7	257.4	267.2	276.9	288.3	299.7	309.6
-90°	8.5	7.9	7.9	7.9	7.4	6.8	6.8	6.8	6.3	5.7	5.1



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	298.2	304.5	310.7	315.8	320.9	327.7	334.5	343.6	352.7	361.8	370.8
87.5°	5.5	5.0	4.5	4.4	4.4	4.4	4.4	3.9	3.4	3.4	3.4
85°	6.4	6.3	6.2	5.9	5.5	5.5	5.6	5.5	5.5	5.0	4.5
82.5°	6.8	6.8	6.8	6.3	5.7	5.7	5.7	5.7	5.7	5.1	4.5
80°	7.2	7.0	6.8	6.6	6.4	6.1	5.7	5.3	4.7	4.6	4.5
77.5°	8.0	7.7	7.3	7.1	6.9	6.4	5.8	5.2	4.6	4.5	4.5
75°	9.2	8.8	8.5	8.1	7.5	7.2	7.1	6.8	6.4	6.5	6.6
72.5°	10.9	10.7	10.8	11.1	11.0	11.4	11.9	12.3	12.8	13.7	14.8
70°	16.3	17.4	17.9	18.3	18.2	18.0	18.0	18.2	18.8	19.4	19.8
67.5°	23.9	25.6	26.6	27.0	25.3	24.3	24.3	24.8	25.8	27.3	29.6
65°	31.2	30.7	29.8	29.2	29.5	29.6	29.4	29.8	31.3	33.6	36.6
62.5°	36.6	31.7	28.7	27.3	28.3	30.0	28.8	27.9	29.1	30.6	32.0
60°	41.8	32.7	26.1	24.1	23.8	24.5	22.5	20.7	21.3	21.7	22.5
57.5°	46.8	35.0	24.2	20.6	17.3	15.6	15.1	14.5	14.1	13.7	13.9
55°	51.3	38.1	23.8	21.1	18.7	18.2	16.7	15.8	15.2	14.9	15.3
52.5°	56.8	49.0	39.1	36.3	40.9	41.2	36.5	43.3	48.5	50.9	51.9
50°	93.0	83.3	100.0	98.4	118.0	131.8	126.9	142.3	165.2	179.6	185.6
47.5°	204.3	204.7	237.7	266.9	291.1	322.8	347.1	370.6	403.3	423.5	432.7
45°	387.7	420.7	455.1	505.3	553.5	612.0	682.5	737.9	960.4	1181.9	1383.4
42.5°	593.5	629.7	680.1	789.4	919.2	1219.9	1757.4	2057.5	2432.0	2839.6	2996.1
40°	764.7	817.3	955.8	1263.5	2012.9	2726.5	3510.4	4173.2	4759.9	5097.5	5379.6
37.5°	976.2	1101.7	1732.5	2603.5	3535.3	4429.6	5236.9	5937.3	6545.4	7038.4	7526.5
35°	1284.5	2117.7	3049.6	4182.2	5172.6	6001.1	6837.5	7640.1	8329.7	9066.2	10160.6
32.5°	2435.1	3524.0	4722.8	5737.9	6705.9	7751.3	8630.1	9914.5	10920.2	12263.1	14315.2
30°	3908.4	5275.2	6362.1	7377.5	8618.8	10025.5	11492.9	13457.3	15509.9	17651.1	19854.7
27.5°	5800.2	7180.6	8326.5	9680.9	11319.9	13191.9	15997.6	18766.3	21710.1	24387.7	26422.8
25°	8080.4	9542.3	11501.2	13466.3	15811.7	19010.8	22163.0	25555.4	28506.8	31134.5	34076.0
22.5°	10217.5	12613.9	15200.6	18167.2	21986.7	25594.8	29492.1	32925.3	36629.1	40374.3	43270.8
20°	12021.6	15143.6	18854.2	23130.9	27364.6	31451.8	35987.1	41459.5	46973.6	51899.8	55474.6
17.5°	14455.3	18409.2	23028.0	28111.4	32669.4	37734.3	44046.5	51156.8	58883.3	65719.7	71140.4
15°	17114.5	21731.4	26954.0	32280.4	38046.9	44833.8	52950.4	62030.9	71482.0	81068.2	89999.0
12.5°	18922.2	24331.4	30034.4	36367.8	43560.2	52659.8	62515.6	72581.9	83382.5	95309.9	105669.7
10°	20467.7	26468.6	33349.0	40715.9	48980.5	58762.3	68948.6	81175.4	94656.9	106402.7	117499.0
7.5°	21996.2	29047.7	36235.0	43905.5	52985.5	63610.0	75665.5	88815.0	102535.0	115301.8	124376.1
5°	23805.0	31120.6	38307.4	46410.1	55918.8	66970.2	79686.1	94786.2	109241.7	120976.9	129161.4
2.5°	25300.6	32364.1	39723.1	47742.6	57515.3	69053.9	82854.9	99635.4	114468.2	125441.0	132847.0
0°	26062.1	33160.5	40613.8	48763.3	58781.6	70555.1	85612.5	103240.5	117259.2	127395.9	135327.2
-2.5°	26155.0	32907.4	40223.3	48261.1	58052.4	70059.4	85495.7	103332.0	117985.7	128521.3	136346.5
-5°	25884.7	32573.8	39875.7	47918.4	57577.3	70084.2	85583.3	102734.1	116893.8	127806.9	135176.3
-7.5°	25232.8	31961.3	39276.8	47201.0	56708.1	68837.9	83293.4	98839.6	113404.2	125195.6	131993.9
-10°	24277.7	30888.9	38091.6	45677.3	54643.1	65857.7	78785.7	93018.3	107736.0	119010.2	126850.0
-12.5°	23069.8	29326.8	36212.0	43383.7	51848.6	62297.0	73820.9	85738.6	98075.9	110929.2	119095.0
-15°	21683.1	27400.6	33845.6	41055.8	49424.6	58132.2	67286.0	76995.5	88273.9	98787.5	108292.6
-17.5°	20367.4	25291.6	31305.1	38330.0	45456.4	53022.4	60867.4	68794.7	77838.8	86091.8	93474.7
-20°	18713.8	22906.6	28447.3	34689.3	41311.4	47867.1	54605.5	61028.0	67593.7	74311.3	80174.8



REPORT NUMBER: P731637 (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°	16764.8	20842.3	25465.0	30899.9	37257.4	43092.1	48489.1	53508.2	58770.8	63419.0	68244.4
-25°	14641.6	18562.1	22810.2	27764.7	32645.9	37935.4	42414.7	46683.1	50765.1	54414.9	58167.3
-27.5°	12034.3	16173.1	20360.6	24325.9	28353.8	32151.8	36328.2	40266.2	43670.5	46681.6	49655.6
-30°	9097.0	13489.9	17451.1	20852.6	24045.9	27213.6	30410.9	33715.4	36938.2	39680.0	42115.9
-32.5°	6711.9	10376.6	14038.0	17371.3	20166.2	22784.2	25270.7	27863.3	30117.5	32431.9	34684.5
-35°	4440.7	7030.9	10070.5	13459.2	16370.0	18572.5	20827.0	22894.0	24593.3	26387.6	28088.2
-37.5°	3737.2	4426.5	6459.9	9211.1	11907.0	14439.7	16688.1	18485.1	20049.0	21482.2	22950.9
-40°	3296.7	3689.9	4268.4	5268.0	7535.2	9763.2	12079.7	13989.7	15655.9	17029.8	18382.0
-42.5°	3007.5	3277.3	3565.5	3959.2	4347.2	5438.4	7339.9	8988.6	10551.3	12099.2	13492.3
-45°	2857.7	3009.1	3174.0	3388.0	3554.0	3849.7	4180.0	4490.3	5734.0	7078.0	8202.9
-47.5°	2678.0	2839.5	2962.7	3063.4	3144.2	3274.1	3411.4	3590.9	3878.8	4218.3	4477.4
-50°	2448.3	2644.3	2767.2	2868.3	2926.3	2976.5	3026.0	3138.4	3294.4	3479.5	3626.4
-52.5°	2151.2	2345.2	2519.3	2650.7	2714.8	2777.3	2839.4	2916.7	3005.5	3112.3	3189.0
-55°	1871.4	2033.4	2184.0	2306.6	2417.1	2517.8	2614.6	2696.5	2792.2	2893.9	2965.3
-57.5°	1605.7	1736.5	1860.1	1966.2	2061.9	2146.6	2245.6	2353.2	2475.6	2592.2	2674.2
-60°	1357.4	1461.4	1564.1	1650.4	1728.3	1797.7	1889.2	1979.5	2086.7	2182.2	2251.8
-62.5°	1135.3	1226.1	1302.1	1367.2	1425.9	1484.0	1561.0	1636.5	1724.7	1801.0	1858.8
-65°	943.3	1019.1	1072.6	1120.9	1163.4	1212.9	1272.4	1332.9	1402.3	1461.6	1509.0
-67.5°	795.2	846.6	880.2	910.0	945.3	984.6	1029.7	1078.0	1131.9	1176.8	1213.1
-70°	683.3	715.3	735.7	758.0	783.7	811.0	841.4	877.8	918.8	953.8	983.9
-72.5°	594.7	619.1	636.0	653.2	668.7	687.3	707.8	735.0	765.3	792.7	818.1
-75°	517.8	535.3	551.1	566.0	579.5	595.3	611.7	634.5	659.4	682.0	703.2
-77.5°	466.3	479.8	490.3	500.3	510.0	523.2	536.7	555.1	574.5	593.1	611.2
-80°	424.9	435.3	444.2	451.5	458.2	469.4	481.0	496.1	511.5	527.6	543.6
-82.5°	386.6	395.7	404.2	411.2	417.6	427.7	438.0	451.5	465.1	478.6	491.8
-85°	350.7	359.1	367.0	373.7	380.2	388.3	396.4	408.1	419.9	432.0	444.1
-87.5°	319.5	327.3	335.1	340.4	345.5	352.8	360.0	370.0	380.0	390.5	400.9
-90°	4.5	4.5	4.5	4.0	3.4	3.4	3.4	2.9	2.3	2.3	2.3



REPORT NUMBER: P731637 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-5S-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	375.4	379.9	382.2	384.4	382.2	379.9	375.4	370.8	361.8	352.7	343.6
87.5°	2.8	2.3	2.3	2.3	2.3	2.3	2.8	3.4	3.4	3.4	3.9
85°	3.9	3.4	3.9	4.5	3.9	3.4	3.9	4.5	5.0	5.5	5.5
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.1	5.7	5.7
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.6	4.7	5.3
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.6	5.2
75°	6.2	5.7	5.7	5.7	5.7	5.7	6.2	6.6	6.5	6.4	6.8
72.5°	15.3	15.6	16.3	17.0	16.3	15.6	15.3	14.8	13.7	12.8	12.3
70°	20.1	20.3	20.4	20.4	20.4	20.3	20.1	19.8	19.4	18.8	18.2
67.5°	30.8	31.3	32.6	34.0	32.6	31.3	30.8	29.6	27.3	25.8	24.8
65°	38.7	40.2	40.7	40.8	40.7	40.2	38.7	36.6	33.6	31.3	29.8
62.5°	33.5	35.0	35.3	35.2	35.3	35.0	33.5	32.0	30.6	29.1	27.9
60°	23.3	24.0	24.4	24.9	24.4	24.0	23.3	22.5	21.7	21.3	20.7
57.5°	14.1	14.8	14.8	14.7	14.8	14.8	14.1	13.9	13.7	14.1	14.5
55°	15.5	15.8	15.4	14.7	15.4	15.8	15.5	15.3	14.9	15.2	15.8
52.5°	50.5	47.9	45.4	43.1	45.4	47.9	50.5	51.9	50.9	48.5	43.3
50°	183.7	180.6	176.2	171.2	176.2	180.6	183.7	185.6	179.6	165.2	142.3
47.5°	440.9	441.8	437.5	429.8	437.5	441.8	440.9	432.7	423.5	403.3	370.6
45°	1559.0	1643.8	1689.5	1721.3	1689.5	1643.8	1559.0	1383.4	1181.9	960.4	737.9
42.5°	3132.9	3251.9	3342.3	3361.0	3342.3	3251.9	3132.9	2996.1	2839.6	2432.0	2057.5
40°	5714.1	5734.0	5402.4	4902.0	5402.4	5734.0	5714.1	5379.6	5097.5	4759.9	4173.2
37.5°	8108.2	8944.8	9916.8	10412.8	9916.8	8944.8	8108.2	7526.5	7038.4	6545.4	5937.3
35°	11637.2	12895.7	13304.0	13314.6	13304.0	12895.7	11637.2	10160.6	9066.2	8329.7	7640.1
32.5°	16165.9	17189.2	17735.5	17587.2	17735.5	17189.2	16165.9	14315.2	12263.1	10920.2	9914.5
30°	21138.8	22029.1	22036.3	21738.5	22036.3	22029.1	21138.8	19854.7	17651.1	15509.9	13457.3
27.5°	28529.2	30410.4	31734.4	32091.2	31734.4	30410.4	28529.2	26422.8	24387.7	21710.1	18766.3
25°	36726.5	38793.7	40064.7	40527.6	40064.7	38793.7	36726.5	34076.0	31134.5	28506.8	25555.4
22.5°	45966.6	47976.4	48893.7	49373.4	48893.7	47976.4	45966.6	43270.8	40374.3	36629.1	32925.3
20°	58882.2	61739.9	62817.2	63277.6	62817.2	61739.9	58882.2	55474.6	51899.8	46973.6	41459.5
17.5°	76772.7	82416.6	85945.6	87757.9	85945.6	82416.6	76772.7	71140.4	65719.7	58883.3	51156.8
15°	96608.6	102338.3	106106.4	108365.8	106106.4	102338.3	96608.6	89999.0	81068.2	71482.0	62030.9
12.5°	113625.3	118733.1	122372.6	124536.2	122372.6	118733.1	113625.3	105669.7	95309.9	83382.5	72581.9
10°	124542.1	128922.5	132698.4	134542.5	132698.4	128922.5	124542.1	117499.0	106402.7	94656.9	81175.4
7.5°	130712.0	135805.4	137852.2	139113.4	137852.2	135805.4	130712.0	124376.1	115301.8	102535.0	88815.0
5°	135493.8	139518.8	141408.2	142330.3	141408.2	139518.8	135493.8	129161.4	120976.9	109241.7	94786.2
2.5°	138685.8	142180.1	143516.3	144260.2	143516.3	142180.1	138685.8	132847.0	125441.0	114468.2	99635.4
0°	140217.8	142794.1	144292.0	143561.7	144292.0	142794.1	140217.8	135327.2	127395.9	117259.2	103240.5
-2.5°	140228.5	142677.3	143790.8	143248.8	143790.8	142677.3	140228.5	136346.5	128521.3	117985.7	103332.0
-5°	139028.8	140856.4	142212.6	141778.1	142212.6	140856.4	139028.8	135176.3	127806.9	116893.8	102734.1
-7.5°	135793.4	138222.4	139215.8	139264.1	139215.8	138222.4	135793.4	131993.9	125195.6	113404.2	98839.6
-10°	131342.7	134035.8	135093.3	135201.3	135093.3	134035.8	131342.7	126850.0	119010.2	107736.0	93018.3
-12.5°	124727.8	127886.9	129409.0	129680.3	129409.0	127886.9	124727.8	119095.0	110929.2	98075.9	85738.6
-15°	114459.1	118717.1	121120.5	121963.9	121120.5	118717.1	114459.1	108292.6	98787.5	88273.9	76995.5
-17.5°	100499.1	105586.6	108583.6	109640.4	108583.6	105586.6	100499.1	93474.7	86091.8	77838.8	68794.7
-20°	85937.7	89709.3	92019.6	92971.7	92019.6	89709.3	85937.7	80174.8	74311.3	67593.7	61028.0



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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°	72692.6	75733.4	77450.0	78212.5	77450.0	75733.4	72692.6	68244.4	63419.0	58770.8	53508.2
-25°	61205.0	63766.2	64646.4	65142.9	64646.4	63766.2	61205.0	58167.3	54414.9	50765.1	46683.1
-27.5°	51818.9	53850.6	54324.8	54762.9	54324.8	53850.6	51818.9	49655.6	46681.6	43670.5	40266.2
-30°	43909.9	45678.0	45919.7	46404.8	45919.7	45678.0	43909.9	42115.9	39680.0	36938.2	33715.4
-32.5°	36513.5	38087.8	38690.9	38783.6	38690.9	38087.8	36513.5	34684.5	32431.9	30117.5	27863.3
-35°	29430.8	30468.4	30879.0	30904.0	30879.0	30468.4	29430.8	28088.2	26387.6	24593.3	22894.0
-37.5°	23862.1	24523.6	24999.1	24868.1	24999.1	24523.6	23862.1	22950.9	21482.2	20049.0	18485.1
-40°	19139.7	19805.2	20239.8	20134.0	20239.8	19805.2	19139.7	18382.0	17029.8	15655.9	13989.7
-42.5°	14260.9	14992.7	15403.5	15289.8	15403.5	14992.7	14260.9	13492.3	12099.2	10551.3	8988.6
-45°	8844.3	9489.4	9792.0	9607.7	9792.0	9489.4	8844.3	8202.9	7078.0	5734.0	4490.3
-47.5°	4614.0	4760.8	4807.8	4742.1	4807.8	4760.8	4614.0	4477.4	4218.3	3878.8	3590.9
-50°	3741.0	3833.1	3872.7	3861.0	3872.7	3833.1	3741.0	3626.4	3479.5	3294.4	3138.4
-52.5°	3249.3	3291.8	3305.9	3297.5	3305.9	3291.8	3249.3	3189.0	3112.3	3005.5	2916.7
-55°	3025.7	3068.0	3082.6	3077.5	3082.6	3068.0	3025.7	2965.3	2893.9	2792.2	2696.5
-57.5°	2742.3	2794.1	2826.2	2842.8	2826.2	2794.1	2742.3	2674.2	2592.2	2475.6	2353.2
-60°	2307.8	2349.3	2361.3	2355.2	2361.3	2349.3	2307.8	2251.8	2182.2	2086.7	1979.5
-62.5°	1904.2	1938.3	1963.8	1981.0	1963.8	1938.3	1904.2	1858.8	1801.0	1724.7	1636.5
-65°	1543.9	1568.5	1573.7	1569.4	1573.7	1568.5	1543.9	1509.0	1461.6	1402.3	1332.9
-67.5°	1238.5	1256.8	1259.3	1255.3	1259.3	1256.8	1238.5	1213.1	1176.8	1131.9	1078.0
-70°	1004.1	1019.5	1021.7	1019.4	1021.7	1019.5	1004.1	983.9	953.8	918.8	877.8
-72.5°	832.9	844.2	852.7	859.5	852.7	844.2	832.9	818.1	792.7	765.3	735.0
-75°	714.0	722.0	724.1	724.6	724.1	722.0	714.0	703.2	682.0	659.4	634.5
-77.5°	620.7	628.8	634.5	639.5	634.5	628.8	620.7	611.2	593.1	574.5	555.1
-80°	550.7	556.9	561.6	565.8	561.6	556.9	550.7	543.6	527.6	511.5	496.1
-82.5°	498.6	505.0	508.9	512.5	508.9	505.0	498.6	491.8	478.6	465.1	451.5
-85°	449.3	454.3	458.0	461.5	458.0	454.3	449.3	444.1	432.0	419.9	408.1
-87.5°	405.7	410.4	412.7	415.0	412.7	410.4	405.7	400.9	390.5	380.0	370.0
-90°	1.7	1.1	1.1	1.1	1.1	1.1	1.7	2.3	2.3	2.3	2.9



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	334.5	327.7	320.9	315.8	310.7	304.5	298.2	288.6	278.9	268.7	258.5
87.5°	4.4	4.4	4.4	4.4	4.5	5.0	5.5	5.6	5.7	6.3	6.8
85°	5.6	5.5	5.5	5.9	6.2	6.3	6.4	6.3	6.3	6.8	7.3
82.5°	5.7	5.7	5.7	6.3	6.8	6.8	6.8	7.0	7.2	7.5	8.0
80°	5.7	6.1	6.4	6.6	6.8	7.0	7.2	7.5	7.9	7.9	8.0
77.5°	5.8	6.4	6.9	7.1	7.3	7.7	8.0	7.9	8.0	8.4	8.7
75°	7.1	7.2	7.5	8.1	8.5	8.8	9.2	9.4	9.3	9.3	9.6
72.5°	11.9	11.4	11.0	11.1	10.8	10.7	10.9	11.1	11.1	10.7	10.4
70°	18.0	18.0	18.2	18.3	17.9	17.4	16.3	15.0	13.9	13.7	12.8
67.5°	24.3	24.3	25.3	27.0	26.6	25.6	23.9	22.1	20.5	19.1	16.4
65°	29.4	29.6	29.5	29.2	29.8	30.7	31.2	29.5	29.7	27.1	21.7
62.5°	28.8	30.0	28.3	27.3	28.7	31.7	36.6	39.1	41.3	38.8	32.5
60°	22.5	24.5	23.8	24.1	26.1	32.7	41.8	48.9	54.8	50.9	43.6
57.5°	15.1	15.6	17.3	20.6	24.2	35.0	46.8	57.7	65.4	60.7	54.5
55°	16.7	18.2	18.7	21.1	23.8	38.1	51.3	62.6	70.7	68.5	62.1
52.5°	36.5	41.2	40.9	36.3	39.1	49.0	56.8	69.6	76.7	76.6	71.2
50°	126.9	131.8	118.0	98.4	100.0	83.3	93.0	95.3	92.7	93.5	85.5
47.5°	347.1	322.8	291.1	266.9	237.7	204.7	204.3	166.7	161.8	130.6	125.0
45°	682.5	612.0	553.5	505.3	455.1	420.7	387.7	367.8	291.4	262.3	188.7
42.5°	1757.4	1219.9	919.2	789.4	680.1	629.7	593.5	568.9	534.5	444.1	372.2
40°	3510.4	2726.5	2012.9	1263.5	955.8	817.3	764.7	707.3	701.4	654.6	560.1
37.5°	5236.9	4429.6	3535.3	2603.5	1732.5	1101.7	976.2	890.2	826.8	809.4	741.4
35°	6837.5	6001.1	5172.6	4182.2	3049.6	2117.7	1284.5	1132.1	1010.0	938.4	897.6
32.5°	8630.1	7751.3	6705.9	5737.9	4722.8	3524.0	2435.1	1508.6	1238.8	1114.8	1018.8
30°	11492.9	10025.5	8618.8	7377.5	6362.1	5275.2	3908.4	2522.2	1597.3	1297.4	1147.1
27.5°	15997.6	13191.9	11319.9	9680.9	8326.5	7180.6	5800.2	3955.7	2201.4	1583.4	1314.8
25°	22163.0	19010.8	15811.7	13466.3	11501.2	9542.3	8080.4	5848.8	3600.7	1923.5	1502.1
22.5°	29492.1	25594.8	21986.7	18167.2	15200.6	12613.9	10217.5	7763.3	5061.4	2703.4	1820.3
20°	35987.1	31451.8	27364.6	23130.9	18854.2	15143.6	12021.6	9452.5	6633.7	3937.0	2129.4
17.5°	44046.5	37734.3	32669.4	28111.4	23028.0	18409.2	14455.3	11257.6	8102.2	4966.8	2382.8
15°	52950.4	44833.8	38046.9	32280.4	26954.0	21731.4	17114.5	13187.5	9741.9	6055.7	3130.5
12.5°	62515.6	52659.8	43560.2	36367.8	30034.4	24331.4	18922.2	14865.4	11264.4	7365.1	3954.2
10°	68948.6	58762.3	48980.5	40715.9	33349.0	26468.6	20467.7	15900.9	12253.8	8511.3	4760.6
7.5°	75665.5	63610.0	52985.5	43905.5	36235.0	29047.7	21996.2	16701.0	13014.8	9367.1	5387.1
5°	79686.1	66970.2	55918.8	46410.1	38307.4	31120.6	23805.0	17413.6	13643.7	10009.3	5865.9
2.5°	82854.9	69053.9	57515.3	47742.6	39723.1	32364.1	25300.6	18114.6	13982.0	10311.0	5999.1
0°	85612.5	70555.1	58781.6	48763.3	40613.8	33160.5	26062.1	18797.1	14084.5	10385.6	5975.8
-2.5°	85495.7	70059.4	58052.4	48261.1	40223.3	32907.4	26155.0	19674.7	14802.4	10448.7	5984.6
-5°	85583.3	70084.2	57577.3	47918.4	39875.7	32573.8	25884.7	19931.3	15180.3	10363.4	5848.6
-7.5°	83293.4	68837.9	56708.1	47201.0	39276.8	31961.3	25232.8	19608.6	15197.5	10368.1	5627.3
-10°	78785.7	65857.7	54643.1	45677.3	38091.6	30888.9	24277.7	19077.1	14786.1	9956.5	5247.4
-12.5°	73820.9	62297.0	51848.6	43383.7	36212.0	29326.8	23069.8	18317.2	14037.2	9184.5	4875.6
-15°	67286.0	58132.2	49424.6	41055.8	33845.6	27400.6	21683.1	17361.6	13086.9	8182.2	4298.0
-17.5°	60867.4	53022.4	45456.4	38330.0	31305.1	25291.6	20367.4	16103.5	11735.1	7037.3	3540.5
-20°	54605.5	47867.1	41311.4	34689.3	28447.3	22906.6	18713.8	14575.8	10044.8	5915.4	3417.5



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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°	48489.1	43092.1	37257.4	30899.9	25465.0	20842.3	16764.8	12684.6	8113.9	4596.1	3253.9
-25°	42414.7	37935.4	32645.9	27764.7	22810.2	18562.1	14641.6	10343.8	6461.8	3821.5	3035.4
-27.5°	36328.2	32151.8	28353.8	24325.9	20360.6	16173.1	12034.3	7904.9	4626.4	3469.8	2914.4
-30°	30410.9	27213.6	24045.9	20852.6	17451.1	13489.9	9097.0	5800.1	3832.1	3137.0	2757.7
-32.5°	25270.7	22784.2	20166.2	17371.3	14038.0	10376.6	6711.9	4184.1	3376.6	2950.7	2661.7
-35°	20827.0	18572.5	16370.0	13459.2	10070.5	7030.9	4440.7	3615.1	3098.8	2771.0	2575.8
-37.5°	16688.1	14439.7	11907.0	9211.1	6459.9	4426.5	3737.2	3231.2	2863.5	2657.7	2461.0
-40°	12079.7	9763.2	7535.2	5268.0	4268.4	3689.9	3296.7	2966.3	2745.7	2531.3	2337.0
-42.5°	7339.9	5438.4	4347.2	3959.2	3565.5	3277.3	3007.5	2819.3	2616.6	2411.6	2151.2
-45°	4180.0	3849.7	3554.0	3388.0	3174.0	3009.1	2857.7	2669.4	2481.9	2216.5	1940.0
-47.5°	3411.4	3274.1	3144.2	3063.4	2962.7	2839.5	2678.0	2498.8	2242.4	1980.9	1749.1
-50°	3026.0	2976.5	2926.3	2868.3	2767.2	2644.3	2448.3	2220.4	1987.8	1773.6	1559.3
-52.5°	2839.4	2777.3	2714.8	2650.7	2519.3	2345.2	2151.2	1951.2	1749.6	1562.4	1374.5
-55°	2614.6	2517.8	2417.1	2306.6	2184.0	2033.4	1871.4	1692.6	1521.3	1350.4	1207.1
-57.5°	2245.6	2146.6	2061.9	1966.2	1860.1	1736.5	1605.7	1451.3	1306.6	1174.3	1049.8
-60°	1889.2	1797.7	1728.3	1650.4	1564.1	1461.4	1357.4	1238.2	1110.1	1004.4	902.7
-62.5°	1561.0	1484.0	1425.9	1367.2	1302.1	1226.1	1135.3	1044.2	942.1	845.8	774.5
-65°	1272.4	1212.9	1163.4	1120.9	1072.6	1019.1	943.3	873.8	799.8	726.8	664.3
-67.5°	1029.7	984.6	945.3	910.0	880.2	846.6	795.2	738.7	684.7	634.5	592.1
-70°	841.4	811.0	783.7	758.0	735.7	715.3	683.3	645.0	601.9	560.1	524.4
-72.5°	707.8	687.3	668.7	653.2	636.0	619.1	594.7	562.8	528.5	492.8	463.1
-75°	611.7	595.3	579.5	566.0	551.1	535.3	517.8	494.8	471.0	446.2	423.1
-77.5°	536.7	523.2	510.0	500.3	490.3	479.8	466.3	446.6	428.1	408.9	390.7
-80°	481.0	469.4	458.2	451.5	444.2	435.3	424.9	409.6	394.2	377.6	361.5
-82.5°	438.0	427.7	417.6	411.2	404.2	395.7	386.6	373.6	360.5	346.1	332.0
-85°	396.4	388.3	380.2	373.7	367.0	359.1	350.7	339.4	328.0	315.1	302.0
-87.5°	360.0	352.8	345.5	340.4	335.1	327.3	319.5	309.6	299.7	288.3	276.9
-90°	3.4	3.4	3.4	4.0	4.5	4.5	4.5	5.1	5.7	6.3	6.8



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	248.9	239.3	230.2	221.1	213.8	206.4	198.5	190.5	177.5	164.4	146.3
87.5°	7.2	7.5	8.1	8.6	8.5	8.5	9.0	9.6	9.7	9.9	10.3
85°	7.8	8.3	8.6	9.1	9.2	9.1	9.6	10.0	10.4	10.6	11.0
82.5°	8.6	9.0	9.0	9.2	9.8	10.2	10.3	10.5	11.0	11.4	11.7
80°	8.6	9.2	9.4	9.6	10.4	11.3	11.0	11.1	11.7	12.2	12.4
77.5°	9.1	9.4	9.8	10.2	10.8	11.4	11.5	11.7	12.5	13.0	13.1
75°	9.9	10.1	10.1	10.5	11.1	11.5	11.9	12.3	13.1	13.8	13.8
72.5°	10.7	10.7	10.4	10.8	11.7	12.2	12.5	12.9	13.6	14.3	14.5
70°	12.0	11.5	11.1	11.5	12.3	13.1	13.5	13.9	14.2	15.0	15.3
67.5°	13.6	12.9	12.2	12.5	13.1	14.2	14.6	15.1	15.5	15.7	16.2
65°	18.7	16.4	13.6	14.3	14.4	15.5	16.2	16.8	16.8	17.2	17.2
62.5°	26.3	22.2	19.7	17.4	17.1	18.5	18.2	19.6	18.6	18.9	18.7
60°	36.0	29.6	26.6	24.1	22.5	22.5	23.1	22.8	22.5	20.7	20.5
57.5°	45.0	36.5	35.5	32.2	31.2	29.4	29.7	29.0	27.2	25.5	22.4
55°	53.2	45.9	46.0	43.5	42.5	39.1	38.8	37.4	33.8	31.6	24.8
52.5°	61.7	59.0	58.2	59.0	58.1	52.1	51.6	46.7	44.0	38.4	31.2
50°	74.8	77.3	74.5	78.9	76.5	72.7	65.4	60.4	54.8	46.7	38.2
47.5°	108.6	110.4	101.9	105.2	101.3	95.9	86.2	75.6	66.4	57.3	45.3
45°	188.6	162.2	152.0	142.2	133.4	126.2	110.7	91.8	81.1	68.1	52.5
42.5°	298.4	262.4	234.0	185.1	181.5	161.4	138.2	116.2	96.5	79.3	61.3
40°	470.5	403.6	341.7	287.5	241.3	200.5	174.6	143.3	112.4	91.7	71.3
37.5°	653.7	568.9	487.6	404.3	320.6	263.6	215.0	171.9	131.4	106.1	81.5
35°	816.9	741.4	629.0	532.1	436.0	329.7	258.4	204.9	157.3	120.9	91.9
32.5°	957.0	884.7	762.4	654.6	529.7	397.5	313.0	242.6	183.6	136.1	102.7
30°	1069.5	987.2	884.7	752.0	607.7	474.1	370.0	279.5	210.4	151.5	114.2
27.5°	1179.4	1086.1	992.6	841.1	680.3	539.8	417.5	315.7	237.5	168.9	126.7
25°	1310.9	1189.4	1086.5	938.2	751.5	592.9	460.0	351.1	266.6	189.0	138.7
22.5°	1474.9	1291.0	1181.7	1040.2	832.8	645.2	501.6	388.6	291.6	207.9	150.2
20°	1618.2	1381.0	1272.9	1135.0	921.0	712.0	544.5	420.0	315.3	225.7	161.2
17.5°	1769.3	1475.3	1331.4	1202.4	1006.9	779.4	589.4	449.6	337.6	242.3	171.5
15°	1972.3	1577.1	1384.9	1260.5	1080.3	844.1	633.3	477.7	358.3	257.6	181.6
12.5°	2139.1	1672.0	1437.7	1306.1	1137.2	902.8	675.4	504.0	377.4	273.0	191.6
10°	2299.7	1773.3	1495.2	1349.3	1185.1	955.4	715.1	531.8	399.9	288.4	200.9
7.5°	2476.5	1868.7	1550.6	1390.4	1225.5	999.3	755.9	565.1	421.8	302.6	209.6
5°	2619.5	1953.4	1607.7	1436.4	1264.5	1033.0	792.8	596.4	442.0	315.5	217.6
2.5°	2660.7	2024.3	1663.3	1479.8	1297.6	1059.5	825.0	625.1	460.2	326.9	224.8
0°	2671.5	2081.9	1713.4	1518.3	1324.4	1079.5	852.7	650.9	476.2	336.8	231.3
-2.5°	2728.0	2128.4	1758.2	1573.6	1372.4	1105.3	868.4	664.2	489.7	348.3	240.7
-5°	2759.5	2161.1	1797.9	1622.7	1411.7	1124.7	879.4	674.0	500.7	358.1	249.2
-7.5°	2777.3	2184.8	1833.9	1663.5	1440.7	1136.9	885.6	680.4	509.0	366.0	256.8
-10°	2768.7	2196.2	1864.9	1686.4	1454.3	1148.5	888.8	683.4	514.5	372.1	263.4
-12.5°	2781.4	2198.8	1889.6	1703.4	1459.0	1159.2	899.5	688.2	517.5	376.2	269.0
-15°	2781.8	2225.6	1929.5	1717.4	1456.4	1162.0	903.7	690.7	518.3	378.5	273.4
-17.5°	2718.7	2227.8	1966.3	1737.6	1448.1	1156.7	900.9	687.8	516.1	379.1	277.3
-20°	2700.1	2246.3	1987.4	1747.6	1430.0	1144.8	891.1	679.3	510.8	377.7	280.6



REPORT NUMBER: P731637 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	2674.9	2286.7	2011.4	1725.6	1404.0	1126.2	876.8	665.7	502.3	374.3	282.8
-25°	2596.4	2312.6	2022.6	1700.2	1376.2	1105.6	859.8	653.8	490.7	369.0	284.0
-27.5°	2550.2	2300.2	2015.8	1658.0	1346.6	1076.4	842.0	645.1	482.9	361.7	284.2
-30°	2522.1	2262.3	1956.1	1603.4	1303.0	1041.4	819.5	631.5	476.6	358.6	283.4
-32.5°	2457.0	2216.8	1866.1	1541.2	1254.4	1000.3	792.0	612.6	467.1	358.3	282.7
-35°	2359.2	2102.5	1759.4	1462.7	1200.5	964.1	760.9	588.5	454.2	356.3	281.6
-37.5°	2245.1	1942.3	1662.1	1379.6	1131.0	919.3	729.1	566.7	438.1	352.5	279.9
-40°	2066.6	1785.6	1531.4	1291.9	1062.0	863.7	692.0	545.6	428.3	346.9	277.0
-42.5°	1880.2	1631.0	1402.4	1187.4	988.1	810.9	651.5	520.8	420.2	341.4	273.0
-45°	1702.7	1475.3	1272.0	1086.9	909.4	753.8	618.7	494.9	409.8	335.4	269.0
-47.5°	1524.3	1330.1	1148.7	981.2	840.4	696.9	579.2	480.4	397.3	327.9	265.8
-50°	1361.3	1188.1	1028.7	886.6	759.6	649.3	541.3	463.2	386.0	318.4	261.7
-52.5°	1206.5	1053.0	916.4	792.1	692.0	598.0	515.5	442.5	372.6	310.3	256.6
-55°	1060.3	927.1	808.5	710.9	626.0	558.5	487.1	421.7	357.2	302.3	251.1
-57.5°	927.6	806.6	719.5	638.0	572.8	518.6	459.3	399.1	345.0	293.2	248.2
-60°	800.5	716.4	639.3	579.8	527.2	479.8	431.2	377.4	333.0	284.2	244.3
-62.5°	700.1	631.3	579.2	528.7	483.4	442.6	403.1	360.1	319.2	278.3	239.5
-65°	617.7	569.7	522.0	481.3	441.4	407.7	380.5	341.8	308.4	271.7	233.9
-67.5°	550.4	510.7	471.4	434.6	406.6	381.8	356.3	327.5	298.2	264.4	227.2
-70°	489.7	454.5	426.0	401.8	378.6	356.7	338.6	314.7	287.3	255.5	219.9
-72.5°	439.8	416.5	392.9	371.1	354.9	338.5	321.9	301.0	274.9	245.9	212.0
-75°	402.1	383.8	366.2	349.8	335.0	320.0	304.7	286.6	262.1	235.6	202.7
-77.5°	374.7	358.7	343.0	328.0	314.4	300.7	287.2	271.7	248.3	223.4	192.7
-80°	347.2	332.9	319.0	305.5	293.3	281.1	268.5	254.3	232.6	210.4	182.1
-82.5°	319.4	306.7	294.3	281.7	270.5	259.0	247.8	235.8	216.4	197.0	172.1
-85°	290.8	279.5	268.2	256.8	246.8	236.7	228.0	218.8	202.6	186.3	163.8
-87.5°	267.2	257.4	247.7	237.9	229.8	221.6	213.3	204.8	190.1	175.5	155.2
-90°	6.8	6.8	7.4	7.9	7.9	7.9	8.5	9.1	9.1	9.1	9.7



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	128.1	106.0	83.9	60.1	36.3	24.4	12.5
87.5°	10.8	10.7	10.6	10.6	10.5	11.6	12.5
85°	11.4	11.2	11.0	10.9	10.8	11.8	12.5
82.5°	12.0	11.7	11.4	11.3	11.1	12.1	12.5
80°	12.6	12.2	11.8	11.7	11.4	12.4	12.5
77.5°	13.2	12.8	12.2	12.1	11.8	12.6	12.5
75°	13.8	13.5	12.7	12.5	12.1	12.9	12.5
72.5°	14.5	14.3	13.5	12.8	12.5	13.1	12.5
70°	15.2	15.1	14.3	13.3	12.8	13.4	12.5
67.5°	16.2	15.9	15.1	13.9	13.2	13.7	12.5
65°	17.2	16.8	15.9	14.6	13.6	13.9	12.5
62.5°	18.3	17.7	16.7	15.3	14.1	14.2	12.5
60°	19.3	18.7	17.6	15.9	14.5	14.5	12.5
57.5°	21.5	19.7	18.7	16.6	15.2	14.8	12.5
55°	24.0	20.6	19.9	17.2	16.0	15.0	12.5
52.5°	26.7	21.9	21.2	17.9	16.8	15.3	12.5
50°	29.7	25.1	22.7	18.5	17.7	15.6	12.5
47.5°	33.3	28.4	24.2	19.3	18.6	15.9	12.5
45°	39.5	31.9	25.8	20.6	19.6	16.1	12.5
42.5°	45.8	35.5	27.5	21.8	20.6	16.4	12.5
40°	52.5	39.3	29.9	23.7	21.6	16.7	12.5
37.5°	59.7	43.3	32.9	26.0	22.7	17.0	12.5
35°	67.0	48.5	35.9	28.3	23.8	17.3	12.5
32.5°	74.8	54.3	39.0	30.7	25.0	17.5	12.5
30°	84.0	60.0	42.0	33.1	26.1	17.8	12.5
27.5°	92.9	65.7	46.2	35.5	27.3	18.1	12.5
25°	101.6	71.3	50.4	38.0	28.5	18.3	12.5
22.5°	110.0	77.0	54.5	40.5	29.7	18.6	12.5
20°	118.2	83.2	58.5	42.9	30.9	18.8	12.5
17.5°	126.3	89.1	62.5	45.4	32.1	19.0	12.5
15°	134.2	94.7	66.3	47.8	33.3	19.3	12.5
12.5°	141.7	100.1	70.0	50.2	34.5	19.5	12.5
10°	148.6	105.2	73.6	52.6	35.6	19.7	12.5
7.5°	155.0	110.0	77.0	54.9	36.7	19.9	12.5
5°	161.0	114.5	80.2	57.1	37.8	20.1	12.5
2.5°	166.4	118.7	83.3	59.2	38.8	20.2	12.5
0°	171.2	122.5	86.2	61.2	39.7	20.4	12.5
-2.5°	178.5	128.1	90.2	63.9	41.4	21.2	12.5
-5°	185.2	133.3	94.0	66.5	43.0	22.0	12.5
-7.5°	191.3	138.1	97.6	68.9	44.6	22.7	12.5
-10°	196.6	142.5	100.9	71.2	46.0	23.4	12.5
-12.5°	201.3	146.4	103.9	73.3	47.4	24.1	12.5
-15°	205.2	149.8	106.7	75.3	48.6	24.8	12.5
-17.5°	208.4	152.7	109.2	77.1	49.8	25.4	12.5
-20°	211.3	155.1	111.5	78.7	50.8	26.0	12.5



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 CATALOG NUMBER: EPH-LS-08-0680N-40-80-5S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	214.2	156.9	113.4	80.2	51.8	26.6	12.5
-25°	216.3	159.1	114.9	81.5	52.6	27.1	12.5
-27.5°	217.6	161.2	116.2	82.6	53.3	27.6	12.5
-30°	218.0	162.8	117.2	83.5	53.9	28.0	12.5
-32.5°	217.5	163.8	119.2	84.2	54.4	28.4	12.5
-35°	217.6	164.3	120.9	84.7	54.8	28.7	12.5
-37.5°	217.6	164.8	122.2	85.0	55.1	29.0	12.5
-40°	216.9	166.1	123.2	85.1	55.2	29.3	12.5
-42.5°	215.7	166.9	124.1	85.3	55.2	29.5	12.5
-45°	213.8	167.3	124.7	85.8	55.1	29.6	12.5
-47.5°	211.2	167.3	125.0	86.0	54.8	29.7	12.5
-50°	210.2	166.9	124.8	86.1	54.5	29.8	12.5
-52.5°	209.1	166.1	124.2	85.9	54.0	29.8	12.5
-55°	207.4	164.6	123.2	85.5	53.4	29.7	12.5
-57.5°	205.1	162.6	121.8	84.9	52.7	29.6	12.5
-60°	202.3	160.1	120.1	84.0	51.8	29.5	12.5
-62.5°	198.5	157.2	118.4	82.9	51.1	29.3	12.5
-65°	194.1	153.8	116.3	81.5	50.3	29.0	12.5
-67.5°	189.2	150.1	114.0	80.0	49.4	28.7	12.5
-70°	183.8	146.1	111.3	78.2	48.3	28.4	12.5
-72.5°	177.3	141.5	108.4	76.5	47.1	28.0	12.5
-75°	170.2	136.5	105.1	74.7	45.8	27.6	12.5
-77.5°	162.5	131.1	102.1	72.7	44.4	27.1	12.5
-80°	154.4	126.2	98.9	70.5	43.0	26.7	12.5
-82.5°	148.0	121.6	95.4	68.1	41.4	26.1	12.5
-85°	141.7	116.6	91.8	65.6	39.8	25.6	12.5
-87.5°	135.0	111.4	87.9	62.9	38.1	25.0	12.5
-90°	10.2	10.2	10.2	10.2	10.2	11.4	12.5

(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

