

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: P731717 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-57-80-1S-VHE**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731717 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-133-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680N-57-80-1S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 1S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

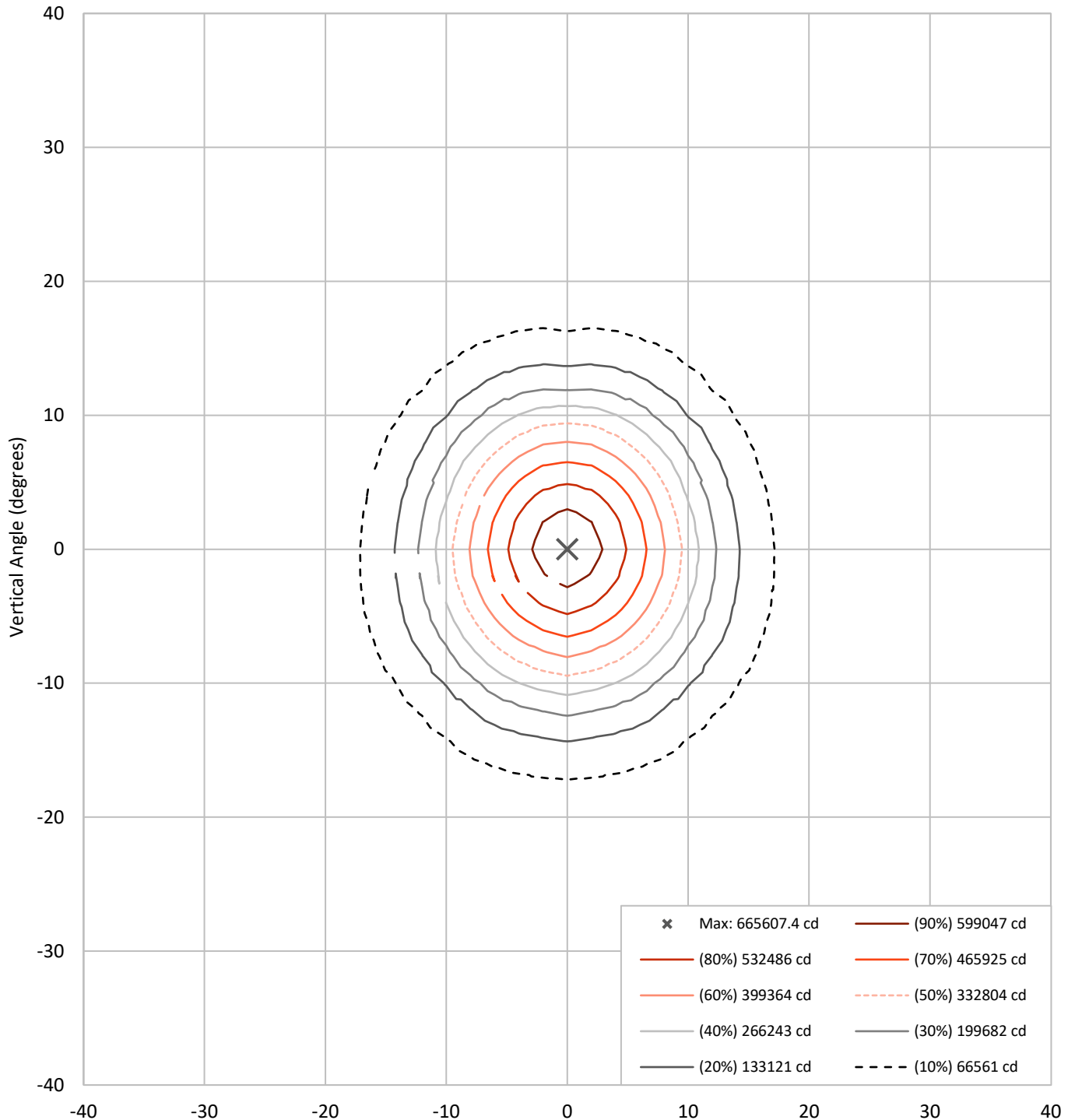
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	87733.5 lumens	Max Intensity:	665607.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	121.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	19°H x 18.9°V	Field Angle (10%):	34°H x 33.3°V
Beam Lumens:	38890.7 lumens	Field Lumens:	70833.5 lumens
Beam Efficiency:	44.3%	Field Efficiency:	80.7%

Input Watts (W): 724.3
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





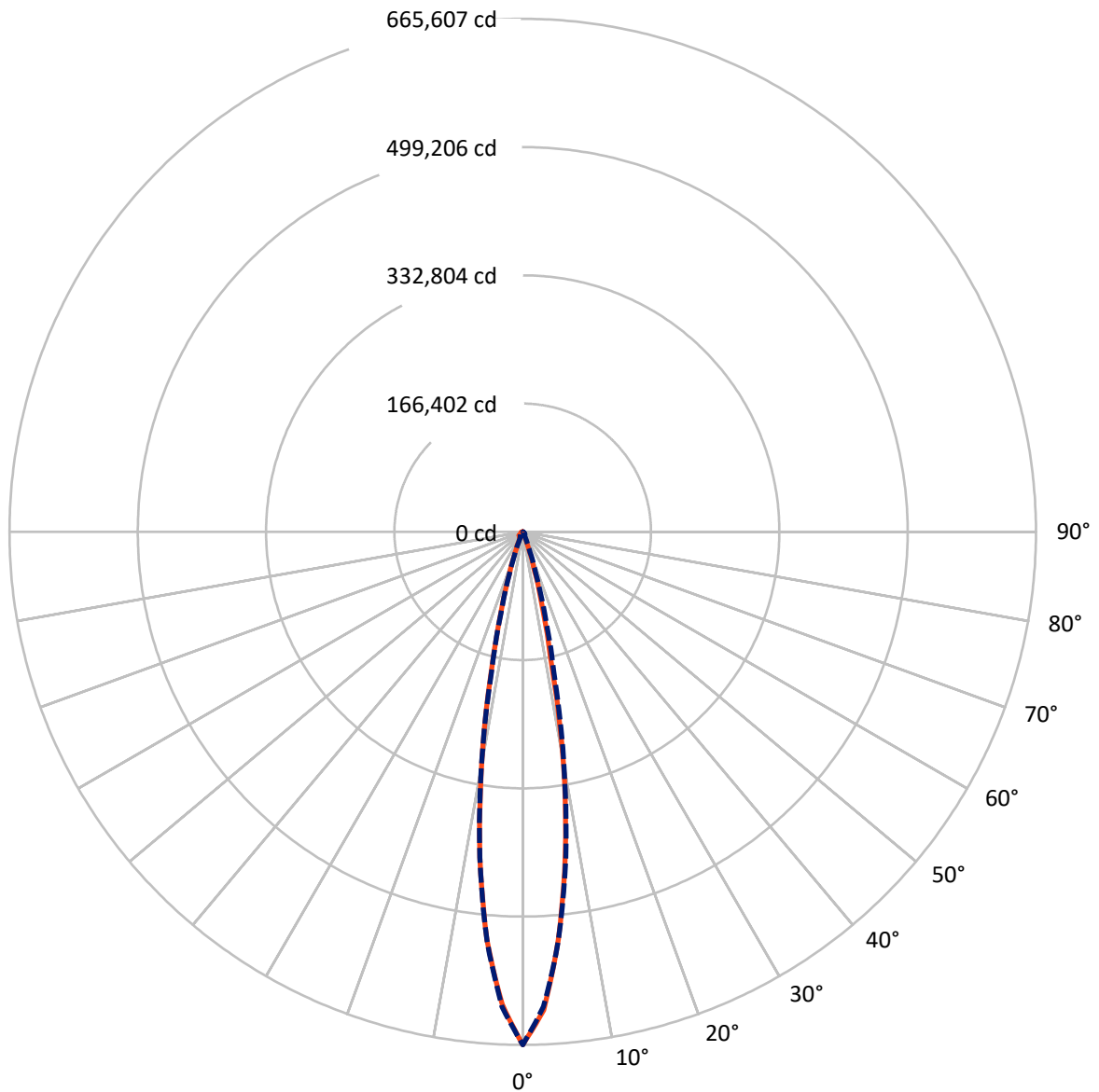
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Lumen Table

90	0.3	1.2	2.2	3.0	3.4	3.0	2.2	1.2	0.3									
80	0.3	1.2	2.2	3.0	3.4	3.0	2.2	1.2	0.3									
70	0.4	0.2	0.3	0.6	0.7	0.4	0.3	0.3	0.3	0.3	0.4	0.7	0.6	0.3	0.2	0.4		
60		0.6	1.0	1.2	1.0	0.9	1.2	1.3	1.3	1.2	0.9	1.0	1.2	1.0	0.6			
50	1.2	1.5	3.3	6.3	9.9	17.1	26.0	28.8	28.8	26.0	17.1	9.9	6.3	3.3	1.5	1.2		
40		3.4	9.4	17.1	35.9	58.7	65.7	69.0	69.0	65.7	58.7	35.9	17.1	9.4	3.4			
30	2.9	5.6	15.4	31.7	75.5	80.1	97.2	160.9	160.9	97.2	80.1	75.5	31.7	15.4	5.6	2.9		
20		7.7	19.9	56.5	100.0	118.1	735.2	2929.7	2929.7	735.2	118.1	100.0	56.5	19.9	7.7			
10	4.3	9.4	23.3	74.8	111.6	220.2	2970.5	12358.7	12358.7	2970.5	220.2	111.6	74.8	23.3	9.4	4.3		
0		10.5	26.1	79.9	124.1	246.3	3122.9	12299.1	12299.1	3122.9	246.3	124.1	79.9	26.1	10.5			
-10	4.9	10.9	28.0	78.8	137.4	169.4	867.0	3174.4	3174.4	867.0	169.4	137.4	78.8	28.0	10.9	4.9		
-20		10.5	28.3	61.0	140.0	171.5	187.1	290.5	290.5	187.1	171.5	140.0	61.0	28.3	10.5			
-30	4.7	9.5	26.4	48.7	102.6	172.3	193.6	195.9	195.9	193.6	172.3	102.6	48.7	26.4	9.5	4.7		
-40		7.9	21.7	42.6	63.6	96.0	142.3	177.4	177.4	142.3	96.0	63.6	42.6	21.7	7.9			
-50	4.0	6.1	15.7	31.0	49.4	64.5	75.1	82.0	82.0	75.1	64.5	49.4	31.0	15.7	6.1	4.0		
-60		4.9	10.3	18.9	29.9	40.1	48.9	54.8	54.8	48.9	40.1	29.9	18.9	10.3	4.9			
-70	2.7	18.5	44.2	69.5	82.9	69.5	44.2	18.5	2.7							2.7		
-80		18.5	44.2	69.5	82.9	69.5	44.2	18.5	2.7									
-90	2.7	18.5	44.2	69.5	82.9	69.5	44.2	18.5	2.7									

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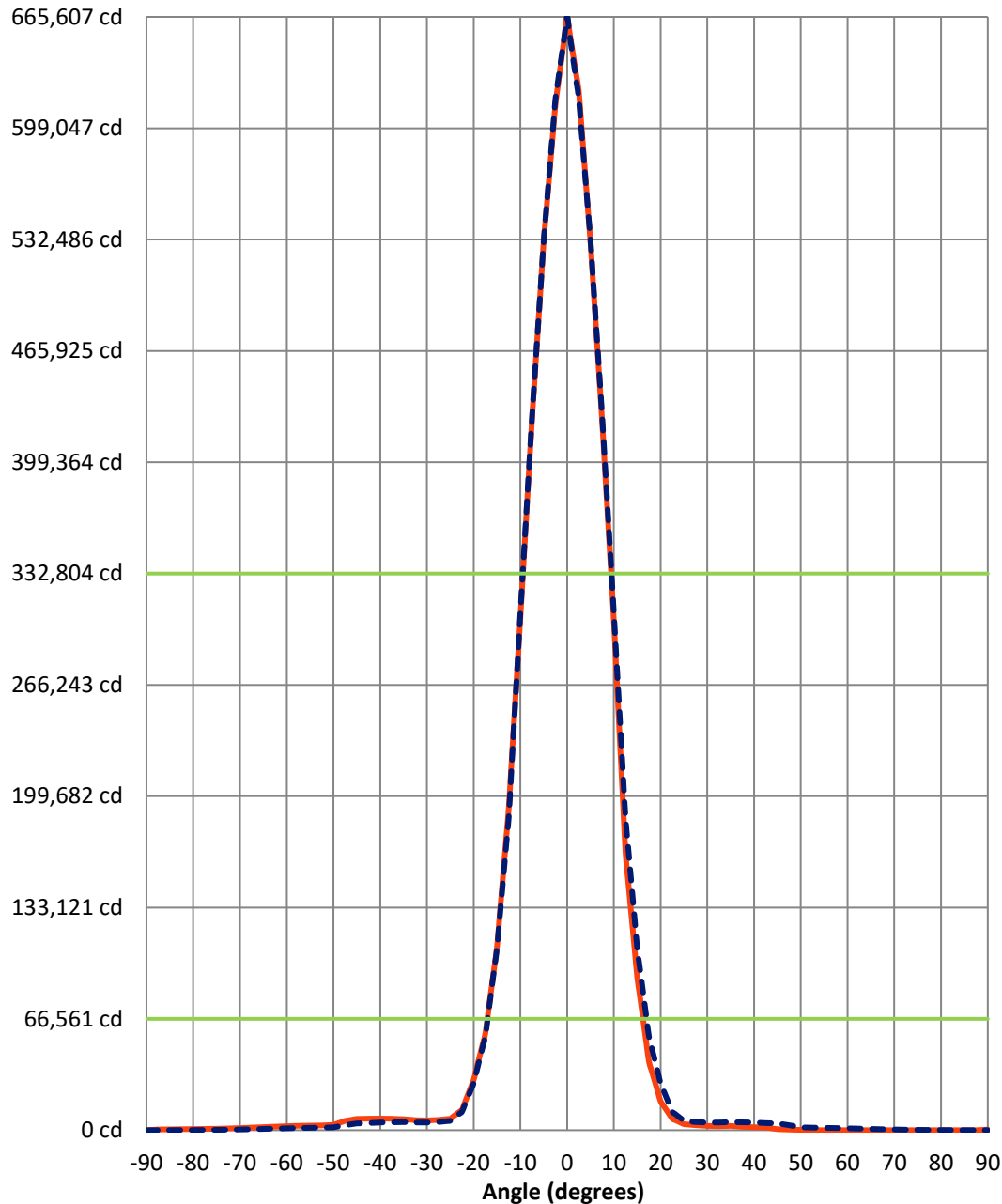
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 19°
 V Angle: 18.9°
 Lumens: 38890.7
 Efficiency: 44.3%

Field:
 H Angle: 34°
 V Angle: 33.3°
 Lumens: 70833.5
 Efficiency: 80.7%

Spill:
 Lumens: 16900
 Efficiency: 19.3%

— 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°	9.5	25.4	41.3	61.9	82.6	103.2	123.9	138.6	153.3	168.0	182.7
87.5°	9.5	8.2	6.7	6.7	6.7	6.6	6.4	6.4	6.4	6.4	6.4
85°	9.5	8.5	7.0	7.0	6.9	6.7	6.4	6.4	6.4	6.4	6.4
82.5°	9.5	8.8	7.2	7.3	7.2	6.9	6.4	6.4	6.4	6.5	6.4
80°	9.5	9.1	7.6	7.6	7.5	7.1	6.6	6.9	7.0	6.9	6.5
77.5°	9.5	9.4	7.9	7.9	7.8	7.6	7.5	7.6	7.6	7.2	6.7
75°	9.5	9.7	8.2	8.3	8.3	8.7	8.4	8.4	8.3	8.2	7.6
72.5°	9.5	10.0	8.6	8.6	9.4	9.9	9.4	9.4	9.8	9.5	8.6
70°	9.5	10.3	9.0	9.1	10.6	11.0	10.6	11.1	11.4	10.9	10.4
67.5°	9.5	10.6	9.4	10.1	11.8	12.3	12.6	12.8	13.1	13.5	12.5
65°	9.5	10.9	9.8	11.2	13.0	14.0	14.8	14.7	16.1	16.3	15.4
62.5°	9.5	11.2	10.3	12.2	14.2	16.4	17.2	17.4	19.2	19.6	19.5
60°	9.5	11.5	10.8	13.3	15.5	18.8	19.7	20.7	22.5	24.2	24.0
57.5°	9.5	11.9	11.8	14.4	17.7	21.3	23.5	24.2	27.0	29.1	31.7
55°	9.5	12.2	13.0	15.5	20.0	23.9	27.8	28.6	32.0	35.4	41.6
52.5°	9.5	12.5	14.1	16.6	22.3	26.8	32.3	34.6	37.2	46.0	52.4
50°	9.5	12.9	15.3	17.7	24.7	31.0	37.1	41.3	44.2	57.4	69.7
47.5°	9.5	13.2	16.5	19.0	27.0	35.3	42.3	48.4	55.4	69.4	88.8
45°	9.5	13.6	17.8	20.8	29.5	39.8	49.0	56.0	69.1	88.1	109.2
42.5°	9.5	13.9	19.1	22.6	31.9	44.4	56.0	66.8	83.5	107.8	139.6
40°	9.5	14.3	20.4	25.1	35.0	49.0	63.2	79.8	100.3	128.6	173.8
37.5°	9.5	14.6	21.8	27.9	38.6	53.8	70.8	93.0	121.3	155.5	210.3
35°	9.5	14.9	23.1	30.7	42.3	59.5	78.5	106.5	142.8	189.2	251.2
32.5°	9.5	15.3	24.5	33.7	45.9	65.6	87.4	120.3	164.6	222.3	293.9
30°	9.5	15.6	25.9	36.6	49.5	71.8	98.6	135.2	186.7	254.6	334.9
27.5°	9.5	16.0	27.3	39.6	54.7	78.0	109.7	153.4	210.9	286.1	373.9
25°	9.5	16.3	28.7	42.6	59.9	84.2	120.7	171.4	237.4	318.5	411.2
22.5°	9.5	16.6	30.1	45.6	65.2	90.8	131.5	189.2	262.9	350.3	452.3
20°	9.5	16.9	31.5	48.5	70.3	98.4	142.1	206.7	287.4	380.1	491.1
17.5°	9.5	17.3	32.9	51.5	75.4	105.6	152.7	223.7	310.6	408.1	527.6
15°	9.5	17.6	34.2	54.4	80.4	112.6	163.0	239.3	332.6	434.2	561.5
12.5°	9.5	17.8	35.6	57.2	85.2	119.4	172.7	253.0	352.6	458.2	592.8
10°	9.5	18.1	36.8	60.0	89.8	125.7	181.7	265.5	370.9	484.5	625.0
7.5°	9.5	18.4	38.0	62.6	94.3	131.8	190.2	276.8	387.8	510.2	662.6
5°	9.5	18.6	39.2	65.2	98.6	137.5	197.9	287.0	403.3	534.4	697.8
2.5°	9.5	18.9	40.3	67.6	102.6	142.8	205.0	295.9	417.0	556.7	730.2
0°	9.5	19.1	41.3	69.9	106.4	147.8	211.3	303.5	429.0	576.7	759.4
-2.5°	9.5	20.0	43.5	73.6	111.2	153.9	218.8	313.9	443.0	592.1	775.7
-5°	9.5	20.9	45.7	77.1	115.7	159.7	225.5	322.9	454.9	604.9	788.3
-7.5°	9.5	21.8	47.8	80.4	119.8	164.9	231.5	330.4	464.5	614.9	797.2
-10°	9.5	22.7	49.7	83.5	123.7	169.8	236.6	336.4	471.7	622.3	802.4
-12.5°	9.5	23.5	51.5	86.4	127.3	174.1	240.9	340.8	476.4	627.2	807.8
-15°	9.5	24.3	53.2	89.1	130.6	178.0	244.4	343.5	479.1	631.7	810.9
-17.5°	9.5	25.0	54.8	91.5	133.6	181.4	247.0	345.5	480.0	633.0	809.6
-20°	9.5	25.7	56.2	93.7	136.2	184.3	249.3	346.5	478.3	631.1	803.8



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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°	9.5	26.4	57.5	95.7	138.5	186.7	251.4	345.6	474.0	625.9	793.5
-25°	9.5	27.0	58.6	97.4	140.6	189.0	252.4	342.7	467.2	617.4	778.5
-27.5°	9.5	27.6	59.5	98.8	142.3	190.9	252.4	337.8	457.6	606.1	765.9
-30°	9.5	28.2	60.3	100.0	143.6	192.2	251.3	331.0	448.7	592.9	749.6
-32.5°	9.5	28.7	60.9	100.9	144.8	192.9	249.1	327.2	439.3	576.7	729.5
-35°	9.5	29.1	61.4	101.5	145.5	193.0	248.3	323.7	427.4	557.4	705.5
-37.5°	9.5	29.5	61.7	101.8	145.8	192.9	247.8	318.7	413.0	535.0	680.8
-40°	9.5	29.8	61.8	101.8	145.7	192.8	246.5	312.4	396.1	514.4	652.6
-42.5°	9.5	30.1	61.7	101.5	145.3	192.2	244.4	304.6	383.9	492.0	619.7
-45°	9.5	30.3	61.4	101.0	144.5	191.1	241.6	298.0	373.4	466.6	583.7
-47.5°	9.5	30.5	61.0	100.1	143.4	189.4	238.0	293.6	361.2	438.7	551.7
-50°	9.5	30.6	60.4	99.1	141.8	187.1	234.9	288.4	346.4	421.5	516.4
-52.5°	9.5	30.6	59.6	97.8	139.8	184.3	231.4	282.2	335.8	402.2	479.6
-55°	9.5	30.6	58.7	96.3	137.4	181.1	227.3	275.4	326.6	381.0	455.0
-57.5°	9.5	30.6	57.5	94.5	134.6	177.4	222.5	269.5	316.4	366.7	428.0
-60°	9.5	30.5	56.3	92.4	131.5	173.2	217.0	262.3	305.8	353.9	403.6
-62.5°	9.5	30.3	55.7	90.1	128.1	168.5	211.0	254.2	296.2	340.1	387.8
-65°	9.5	30.1	54.9	87.5	124.4	163.3	204.4	245.4	285.7	327.3	371.0
-67.5°	9.5	29.8	54.1	84.7	120.3	157.7	197.1	235.9	274.5	314.1	354.9
-70°	9.5	29.5	53.1	81.7	115.9	151.8	189.4	225.8	262.1	300.0	338.6
-72.5°	9.5	29.1	52.0	79.6	111.1	145.3	181.1	215.0	249.0	284.5	321.2
-75°	9.5	28.7	50.7	77.5	106.1	138.5	172.3	203.6	235.3	268.1	302.1
-77.5°	9.5	28.3	49.4	75.3	102.4	131.4	163.1	191.6	220.7	250.9	282.1
-80°	9.5	27.8	47.9	73.0	98.9	125.6	153.4	179.2	205.5	232.8	260.9
-82.5°	9.5	27.2	46.4	70.4	95.1	120.3	146.2	167.6	189.9	214.1	238.9
-85°	9.5	26.7	44.8	67.7	91.1	114.9	139.0	158.2	177.8	197.8	218.3
-87.5°	9.5	26.0	43.1	64.9	86.9	109.2	131.6	148.5	165.7	183.1	200.7
-90°	9.5	8.0	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4



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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°	196.6	210.5	224.4	238.3	248.6	259.0	269.3	279.6	288.4	297.1	305.9
87.5°	6.0	5.6	5.2	4.8	4.8	4.8	4.8	4.8	4.4	4.0	3.6
85°	6.0	5.6	5.2	4.8	4.8	4.8	4.8	4.8	4.4	4.0	3.6
82.5°	6.0	5.6	5.2	4.8	4.8	4.8	4.8	4.8	4.5	4.3	4.1
80°	6.1	5.7	5.5	5.3	5.3	5.3	5.1	4.9	4.8	4.9	4.9
77.5°	6.5	6.4	6.4	6.3	6.1	5.8	5.7	5.7	5.7	5.5	5.3
75°	7.3	7.2	7.1	6.7	6.3	6.3	6.4	6.4	6.2	5.8	5.4
72.5°	8.2	8.2	7.8	7.0	6.7	6.8	6.8	6.6	7.0	7.9	8.7
70°	9.6	9.3	9.2	8.4	7.5	7.9	9.2	10.4	11.6	13.5	16.3
67.5°	11.2	11.7	11.3	10.5	10.3	11.9	13.4	18.5	24.0	27.0	28.2
65°	14.1	14.4	15.1	15.3	14.4	18.7	24.6	31.2	37.4	38.6	37.6
62.5°	17.5	19.3	20.6	21.9	23.5	28.0	34.6	41.3	48.1	46.1	39.7
60°	24.3	25.3	28.9	32.6	33.9	36.3	43.6	47.3	49.4	48.1	37.4
57.5°	32.6	34.4	40.5	44.8	46.1	43.3	46.0	48.4	48.1	42.4	32.5
55°	44.1	46.4	54.0	59.6	59.3	48.9	48.3	50.5	46.9	41.2	32.1
52.5°	60.8	62.1	70.6	76.6	74.5	63.7	56.0	59.5	59.0	51.5	43.8
50°	79.1	86.2	89.4	97.8	97.3	88.5	74.0	81.2	94.0	91.7	80.7
47.5°	105.2	114.4	114.7	124.9	129.6	137.2	124.9	140.4	159.3	198.1	185.7
45°	136.4	151.6	152.7	162.2	186.2	215.1	226.7	225.8	321.7	356.3	381.6
42.5°	170.9	195.2	205.5	204.8	281.9	325.8	350.7	430.0	502.9	524.9	536.7
40°	214.5	243.9	266.2	315.9	395.8	456.5	519.1	603.7	643.5	647.4	647.6
37.5°	262.5	305.1	341.1	425.9	527.8	595.1	672.9	709.3	736.9	738.4	769.7
35°	313.8	371.2	437.8	532.3	644.5	720.9	765.9	798.8	813.8	848.4	1000.4
32.5°	372.7	441.9	528.8	634.0	741.2	819.0	845.9	874.2	910.9	1013.5	1459.6
30°	432.1	521.6	615.2	728.5	837.1	892.0	920.3	956.0	1013.5	1413.8	2031.8
27.5°	482.4	596.2	698.4	816.4	927.3	965.3	998.2	1051.6	1296.0	1857.6	2716.3
25°	530.7	655.5	775.2	903.3	995.1	1037.1	1078.3	1150.8	1627.8	2517.8	3103.9
22.5°	578.9	715.4	845.0	989.1	1062.5	1106.1	1169.5	1440.1	2107.4	3177.4	3452.9
20°	628.4	775.3	914.3	1058.5	1127.4	1172.7	1259.8	1767.9	2693.5	3458.9	3714.1
17.5°	677.0	833.0	979.4	1107.4	1178.9	1243.0	1380.9	2097.5	3221.2	3736.6	3914.3
15°	724.2	888.1	1038.6	1154.7	1230.2	1318.7	1665.4	2536.0	3563.5	3985.9	4154.7
12.5°	769.4	940.4	1092.1	1200.2	1281.5	1393.8	1963.1	2969.4	3792.6	4182.2	4343.8
10°	812.1	989.5	1140.0	1243.5	1332.1	1467.2	2263.3	3335.3	3981.8	4314.9	4438.1
7.5°	852.4	1032.0	1183.0	1284.5	1381.5	1537.9	2554.5	3637.2	4131.0	4427.5	4503.3
5°	887.7	1066.6	1222.6	1328.7	1431.1	1600.5	2803.8	3878.8	4246.7	4521.2	4570.5
2.5°	918.0	1096.5	1258.5	1371.3	1479.1	1650.4	2924.3	3976.8	4261.4	4562.5	4640.5
0°	943.7	1121.7	1290.1	1410.8	1523.6	1693.6	2993.2	4027.5	4243.6	4574.0	4713.9
-2.5°	964.7	1156.0	1335.2	1452.4	1566.2	1734.6	2988.2	4066.8	4288.2	4679.2	4995.7
-5°	981.3	1184.9	1374.9	1491.1	1605.2	1769.6	2934.5	4055.5	4349.1	4772.3	5169.4
-7.5°	993.2	1207.4	1408.4	1527.4	1643.6	1809.7	2896.2	4104.1	4526.4	4882.8	5239.8
-10°	1001.2	1222.3	1428.8	1561.3	1682.3	1849.2	2813.7	4083.7	4692.1	4993.6	5307.3
-12.5°	1010.3	1230.7	1442.0	1590.9	1716.0	1880.3	2668.1	3986.2	4845.6	5113.0	5373.4
-15°	1014.1	1233.5	1448.9	1615.8	1744.4	1902.5	2456.7	3805.6	4948.1	5177.9	5415.7
-17.5°	1012.3	1230.8	1449.5	1635.7	1767.1	1915.4	2177.4	3471.1	4787.0	5203.4	5455.0
-20°	1004.9	1222.7	1443.7	1650.4	1784.3	1931.3	2132.4	3086.6	4347.1	5184.4	5483.2



REPORT NUMBER: P731717 (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°	991.8	1209.1	1430.3	1642.1	1803.4	1951.6	2134.6	2687.9	3828.0	5119.8	5485.4
-25°	974.8	1190.0	1409.5	1633.3	1820.2	1965.4	2128.1	2339.6	3314.1	4561.3	5430.6
-27.5°	954.2	1164.1	1389.2	1616.5	1833.7	1974.3	2129.7	2323.1	2860.7	3916.1	5221.8
-30°	928.4	1135.3	1360.6	1590.2	1814.8	1983.9	2130.1	2284.8	2483.3	3334.0	4459.5
-32.5°	899.2	1100.1	1323.1	1551.4	1779.7	1990.3	2117.8	2257.9	2428.6	2734.2	3695.5
-35°	869.6	1063.9	1277.2	1503.5	1735.2	1952.3	2107.3	2232.7	2372.6	2558.5	2997.4
-37.5°	841.0	1021.7	1223.4	1446.1	1673.5	1884.0	2087.9	2211.8	2339.9	2470.8	2653.3
-40°	807.1	973.4	1168.6	1379.3	1593.1	1803.1	2005.4	2190.4	2308.2	2421.6	2539.9
-42.5°	768.5	930.3	1109.4	1302.1	1503.9	1707.8	1913.3	2107.8	2273.2	2374.6	2482.5
-45°	726.9	881.8	1045.9	1223.4	1406.7	1603.8	1801.8	2000.2	2176.9	2335.0	2431.5
-47.5°	680.0	828.3	985.2	1138.7	1309.5	1490.9	1681.7	1868.3	2050.3	2218.3	2382.5
-50°	631.3	770.1	914.8	1058.1	1210.7	1376.4	1551.7	1728.5	1903.2	2074.2	2235.6
-52.5°	587.8	706.3	839.9	976.1	1114.8	1262.5	1418.4	1578.3	1745.7	1911.9	2062.0
-55°	540.7	648.8	760.3	888.8	1020.4	1153.4	1283.6	1427.7	1577.2	1733.8	1874.0
-57.5°	502.7	589.3	687.2	796.1	919.6	1044.5	1159.2	1275.2	1408.2	1547.1	1668.8
-60°	469.2	537.4	617.1	711.5	813.0	925.8	1033.8	1140.9	1248.3	1354.3	1469.4
-62.5°	436.6	496.0	558.3	629.9	719.6	806.3	901.4	1000.5	1099.5	1194.5	1286.6
-65°	416.9	458.3	511.4	569.9	628.4	703.9	780.9	856.9	944.3	1030.3	1114.5
-67.5°	395.6	434.7	474.3	517.4	571.1	620.6	669.9	738.7	806.8	871.3	937.4
-70°	375.7	410.4	447.2	484.5	520.6	557.3	602.3	647.0	690.8	738.2	795.1
-72.5°	355.2	387.4	420.3	453.9	486.4	516.8	547.3	577.9	613.6	652.2	689.8
-75°	333.2	363.4	393.5	424.2	452.4	479.3	506.7	534.3	561.5	588.4	615.4
-77.5°	309.9	337.1	364.9	393.0	418.1	441.8	465.8	490.1	513.9	537.4	560.7
-80°	285.6	310.1	334.8	359.8	381.4	402.4	423.5	444.7	465.7	486.4	506.9
-82.5°	260.3	281.7	303.4	325.4	343.8	361.8	379.7	397.7	415.4	433.1	450.7
-85°	235.7	252.8	271.3	289.9	305.4	320.7	336.0	351.2	365.9	380.6	395.1
-87.5°	216.3	231.8	247.3	262.8	274.9	286.9	298.9	310.9	322.2	333.5	344.8
-90°	6.0	5.6	5.2	4.8	4.8	4.8	4.8	4.8	4.4	4.0	3.6



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	314.6	320.6	326.5	332.5	338.4	343.6	348.8	353.9	359.1	362.3	365.5
87.5°	3.2	3.1	3.1	3.1	3.1	2.7	2.4	2.0	1.6	1.6	1.6
85°	3.2	3.2	3.2	3.2	3.2	2.8	2.4	2.0	1.6	1.6	1.6
82.5°	3.9	3.9	3.7	3.5	3.2	3.1	3.1	3.0	3.0	3.1	3.1
80°	4.8	4.5	4.1	3.7	3.3	3.2	3.2	3.2	3.2	3.2	3.2
77.5°	4.9	4.5	4.1	3.7	3.3	3.2	3.2	3.2	3.2	3.2	3.2
75°	5.0	4.8	5.0	5.0	4.8	4.8	4.8	4.7	4.5	4.3	4.0
72.5°	9.4	9.8	9.7	10.0	10.0	10.3	10.7	10.9	11.0	11.0	11.1
70°	17.8	18.4	18.9	18.7	17.6	16.7	16.3	15.8	15.3	15.7	16.6
67.5°	27.2	25.3	24.3	23.0	20.5	18.3	17.1	15.7	14.2	13.5	13.4
65°	33.7	26.6	23.2	20.6	18.5	16.1	13.9	11.9	10.2	9.1	8.7
62.5°	32.0	22.8	18.0	15.2	12.7	10.5	8.7	7.3	6.3	5.8	5.9
60°	27.4	17.9	12.6	10.2	7.6	5.1	4.7	4.5	4.1	3.8	4.1
57.5°	24.4	16.1	9.8	9.6	8.3	6.0	5.2	5.2	4.5	3.2	3.7
55°	27.2	23.0	16.0	16.5	16.0	13.5	11.5	13.7	13.2	10.4	11.4
52.5°	40.9	46.9	38.3	35.6	48.5	48.1	37.6	51.4	59.0	57.7	58.9
50°	96.3	108.8	121.9	111.6	137.0	152.2	148.9	166.8	185.2	184.8	190.5
47.5°	228.1	262.4	266.2	273.1	302.1	339.0	369.0	390.1	401.0	396.5	399.6
45°	408.1	415.9	433.7	473.2	522.5	582.0	627.3	653.6	742.3	805.2	841.9
42.5°	541.0	565.1	608.8	713.0	789.4	964.8	1177.0	1259.3	1363.6	1416.5	1419.8
40°	674.1	735.7	916.2	1106.0	1518.0	1824.3	1842.6	1972.5	2032.3	1966.4	1956.6
37.5°	894.2	1122.8	1432.9	1871.4	2063.0	2146.3	2192.0	2208.6	2220.7	2209.6	2204.0
35°	1327.8	1725.4	2029.8	2172.8	2259.4	2262.1	2272.7	2271.3	2257.1	2249.7	2234.0
32.5°	1967.4	2346.6	2355.8	2344.7	2362.9	2352.5	2332.6	2323.4	2292.7	2274.1	2280.4
30°	2626.9	2629.0	2591.5	2504.6	2461.2	2447.9	2419.1	2395.4	2366.3	2370.6	2472.1
27.5°	2888.5	2856.4	2804.1	2729.1	2583.5	2554.9	2531.8	2521.9	2643.8	2755.2	2854.6
25°	3181.3	3098.2	3069.4	3004.1	2854.3	2688.5	2761.4	2876.1	3035.5	3201.5	3361.6
22.5°	3434.5	3374.5	3356.0	3331.7	3087.2	3015.8	3115.8	3304.4	3522.2	3810.6	4634.2
20°	3684.0	3619.2	3598.0	3476.0	3347.8	3365.5	3551.3	3880.3	4489.4	6677.8	9350.4
17.5°	3893.8	3826.7	3754.2	3611.8	3571.0	3749.5	4121.2	5276.8	8151.5	15335.0	22636.0
15°	4089.2	4001.1	3877.8	3784.4	3861.7	4193.8	5114.8	9051.8	18363.7	30421.1	45623.3
12.5°	4262.9	4128.0	3955.5	3907.0	4142.0	4701.4	8313.7	17762.1	32006.2	49183.3	84872.6
10°	4383.7	4208.9	4058.5	4142.1	4515.6	6017.2	11963.7	26629.6	47702.2	86121.4	130553.4
7.5°	4435.7	4277.5	4189.9	4369.5	4868.2	7727.5	18010.0	36828.8	67373.9	119034.4	189926.8
5°	4494.6	4385.3	4336.5	4594.6	5207.8	9121.0	22358.4	45411.8	88410.4	149946.7	241238.2
2.5°	4613.5	4509.5	4475.5	4792.1	5504.8	10420.2	25756.4	52084.6	102347.5	175741.3	286772.7
0°	4823.5	4607.4	4580.4	4890.2	5624.2	11011.7	27986.1	56108.7	108976.4	186778.1	309176.4
-2.5°	4990.2	4732.8	4681.4	4957.6	5676.8	10721.9	27759.9	55970.1	106271.9	183089.3	294949.0
-5°	5135.7	4877.5	4806.5	5063.2	5792.3	10711.1	26289.3	51355.7	95094.0	160883.7	248571.0
-7.5°	5265.1	5041.9	4936.8	5141.1	5807.5	9592.1	21263.6	42281.8	76011.0	125609.1	192391.2
-10°	5401.6	5230.2	5087.0	5223.7	5742.9	7632.0	14225.2	30478.4	54131.9	91090.2	136915.1
-12.5°	5557.6	5471.2	5260.7	5280.6	5655.6	6440.3	10513.8	21278.5	37581.8	57381.0	90597.8
-15°	5690.0	5686.0	5509.9	5453.8	5640.2	6143.4	7335.3	11816.6	22797.0	36885.6	53317.4
-17.5°	5717.6	5858.4	5790.9	5619.7	5630.7	5912.8	6404.1	7830.7	11451.1	20295.4	30072.1
-20°	5735.4	6036.2	6043.2	5904.2	5782.4	5750.9	5975.5	6391.6	7200.6	10189.3	14123.3



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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°	5762.5	6048.4	6251.8	6213.3	5974.2	5834.3	5784.0	5941.6	6215.4	6601.1	7877.5
-25°	5775.4	6042.2	6333.4	6413.2	6312.9	6056.9	5865.4	5758.5	5855.3	5977.7	6227.4
-27.5°	5720.4	6032.7	6314.9	6551.6	6580.4	6412.9	6131.5	5903.1	5814.3	5730.3	5833.1
-30°	5628.9	5977.7	6272.9	6563.9	6680.4	6626.8	6479.5	6294.1	6077.8	5909.5	5850.4
-32.5°	4879.4	5895.5	6197.8	6450.0	6642.1	6697.0	6698.6	6599.3	6506.8	6377.0	6225.1
-35°	4020.0	5147.1	6130.8	6257.8	6433.9	6615.7	6750.7	6755.3	6744.5	6683.0	6619.0
-37.5°	3125.0	4175.3	5121.3	5878.6	6144.9	6358.9	6590.1	6746.4	6844.5	6826.9	6815.1
-40°	2720.7	3051.7	3936.7	4708.7	5356.3	5965.7	6216.1	6496.9	6722.7	6801.3	6854.4
-42.5°	2595.8	2737.4	2881.5	3466.5	4133.7	4720.5	5272.4	5798.6	6268.6	6534.8	6720.2
-45°	2527.4	2606.1	2694.3	2824.6	2937.2	3423.2	3917.7	4398.0	4984.3	5523.9	5991.9
-47.5°	2464.0	2525.6	2593.9	2660.9	2723.4	2811.7	2888.2	3024.5	3463.7	3906.4	4350.7
-50°	2361.9	2463.8	2520.4	2570.5	2614.7	2655.7	2691.0	2752.6	2825.5	2889.0	2953.3
-52.5°	2191.4	2306.0	2414.9	2497.4	2532.0	2566.0	2600.9	2647.6	2690.7	2730.2	2760.5
-55°	2000.1	2116.2	2226.0	2309.6	2384.6	2453.6	2515.1	2556.5	2596.7	2635.6	2665.1
-57.5°	1789.8	1908.1	2015.5	2095.6	2170.6	2240.3	2308.0	2373.0	2432.6	2486.3	2532.0
-60°	1576.9	1676.7	1773.7	1858.4	1935.8	2005.5	2072.5	2136.5	2195.1	2247.8	2293.6
-62.5°	1376.9	1469.4	1546.1	1615.4	1682.0	1746.4	1814.1	1876.5	1933.1	1984.9	2032.4
-65°	1196.6	1276.4	1334.4	1388.6	1439.9	1495.2	1554.8	1609.8	1659.8	1706.3	1749.2
-67.5°	1011.2	1080.2	1131.2	1178.2	1221.9	1266.0	1313.6	1358.0	1398.9	1438.0	1474.7
-70°	850.1	898.3	933.8	969.8	1008.7	1048.4	1089.4	1126.8	1160.4	1192.5	1222.0
-72.5°	726.3	755.9	780.8	811.6	839.3	868.9	899.4	927.6	953.4	978.5	1002.0
-75°	642.5	664.3	684.6	703.6	721.4	742.5	764.5	785.3	804.8	823.1	840.4
-77.5°	584.2	601.1	615.1	628.3	640.9	657.3	674.5	691.3	707.6	721.4	734.2
-80°	527.2	540.8	552.7	564.2	575.3	589.5	603.9	618.0	631.6	644.2	656.1
-82.5°	468.2	479.3	489.4	499.2	508.7	520.7	532.6	544.2	555.4	565.7	575.7
-85°	409.5	417.9	425.9	433.6	441.1	450.9	460.6	470.0	479.3	486.0	492.5
-87.5°	356.1	362.4	368.4	374.3	380.1	387.2	394.2	401.2	408.1	412.6	417.0
-90°	3.2	2.8	2.4	2.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6



REPORT NUMBER: P731717 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-80-1S-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	368.6	371.8	371.0	370.2	371.0	371.8	368.6	365.5	362.3	359.1	353.9
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.0	3.0
80°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
75°	3.6	3.2	3.2	3.2	3.2	3.2	3.6	4.0	4.3	4.5	4.7
72.5°	11.1	10.9	11.0	11.1	11.0	10.9	11.1	11.1	11.0	11.0	10.9
70°	17.7	18.7	19.0	19.1	19.0	18.7	17.7	16.6	15.7	15.3	15.8
67.5°	13.1	12.9	12.0	11.1	12.0	12.9	13.1	13.4	13.5	14.2	15.7
65°	8.3	8.1	7.9	7.9	7.9	8.1	8.3	8.7	9.1	10.2	11.9
62.5°	6.1	6.4	6.4	6.4	6.4	6.4	6.1	5.9	5.8	6.3	7.3
60°	4.4	4.8	4.8	4.8	4.8	4.8	4.4	4.1	3.8	4.1	4.5
57.5°	4.2	4.7	4.8	4.8	4.8	4.7	4.2	3.7	3.2	4.5	5.2
55°	12.1	12.4	12.0	11.1	12.0	12.4	12.1	11.4	10.4	13.2	13.7
52.5°	57.9	53.4	46.5	38.1	46.5	53.4	57.9	58.9	57.7	59.0	51.4
50°	201.6	207.0	202.2	187.5	202.2	207.0	201.6	190.5	184.8	185.2	166.8
47.5°	415.3	419.9	405.4	371.8	405.4	419.9	415.3	399.6	396.5	401.0	390.1
45°	869.4	862.7	787.8	632.3	787.8	862.7	869.4	841.9	805.2	742.3	653.6
42.5°	1499.4	1566.2	1605.5	1606.2	1605.5	1566.2	1499.4	1419.8	1416.5	1363.6	1259.3
40°	1940.6	1862.3	1776.8	1763.5	1776.8	1862.3	1940.6	1956.6	1966.4	2032.3	1972.5
37.5°	2190.6	2207.1	2197.7	2013.0	2197.7	2207.1	2190.6	2204.0	2209.6	2220.7	2208.6
35°	2270.3	2394.3	2522.1	2548.4	2522.1	2394.3	2270.3	2234.0	2249.7	2257.1	2271.3
32.5°	2308.7	2351.3	2362.8	2367.3	2362.8	2351.3	2308.7	2280.4	2274.1	2292.7	2323.4
30°	2518.8	2546.7	2542.7	2537.3	2542.7	2546.7	2518.8	2472.1	2370.6	2366.3	2395.4
27.5°	2901.6	2947.5	2968.1	2982.1	2968.1	2947.5	2901.6	2854.6	2755.2	2643.8	2521.9
25°	3449.2	3519.6	3567.8	3589.0	3567.8	3519.6	3449.2	3361.6	3201.5	3035.5	2876.1
22.5°	5585.5	6072.8	6555.2	6804.7	6555.2	6072.8	5585.5	4634.2	3810.6	3522.2	3304.4
20°	13943.6	16049.5	17011.4	17292.1	17011.4	16049.5	13943.6	9350.4	6677.8	4489.4	3880.3
17.5°	32471.7	40454.6	45794.0	41115.6	45794.0	40454.6	32471.7	22636.0	15335.0	8151.5	5276.8
15°	66462.1	86679.9	97993.2	91627.1	97993.2	86679.9	66462.1	45623.3	30421.1	18363.7	9051.8
12.5°	119745.7	151298.6	172490.7	165502.2	172490.7	151298.6	119745.7	84872.6	49183.3	32006.2	17762.1
10°	188477.1	251925.1	294172.7	304616.7	294172.7	251925.1	188477.1	130553.4	86121.4	47702.2	26629.6
7.5°	273516.2	352073.6	414082.8	423680.2	414082.8	352073.6	273516.2	189926.8	119034.4	67373.9	36828.8
5°	356709.7	449436.6	513955.8	530705.6	513955.8	449436.6	356709.7	241238.2	149946.7	88410.4	45411.8
2.5°	408345.6	509271.3	586988.2	621220.6	586988.2	509271.3	408345.6	286772.7	175741.3	102347.5	52084.6
0°	426775.9	532179.9	616502.8	665607.4	616502.8	532179.9	426775.9	309176.4	186778.1	108976.4	56108.7
-2.5°	412486.6	507939.8	579123.2	613259.2	579123.2	507939.8	412486.6	294949.0	183089.3	106271.9	55970.1
-5°	351322.1	446161.7	504077.9	531884.4	504077.9	446161.7	351322.1	248571.0	160883.7	95094.0	51355.7
-7.5°	274526.9	350434.5	400446.3	425743.9	400446.3	350434.5	274526.9	192391.2	125609.1	76011.0	42281.8
-10°	192086.4	252309.2	286021.2	306663.0	286021.2	252309.2	192086.4	136915.1	91090.2	54131.9	30478.4
-12.5°	124980.9	160034.1	178915.0	192140.2	178915.0	160034.1	124980.9	90597.8	57381.0	37581.8	21278.5
-15°	75870.8	92954.3	103205.1	109631.0	103205.1	92954.3	75870.8	53317.4	36885.6	22797.0	11816.6
-17.5°	42346.5	49684.2	54879.8	57754.7	54879.8	49684.2	42346.5	30072.1	20295.4	11451.1	7830.7
-20°	21012.5	25654.3	28703.1	29983.1	28703.1	25654.3	21012.5	14123.3	10189.3	7200.6	6391.6



REPORT NUMBER: P731717 (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°	9697.4	10937.3	11758.2	12149.3	11758.2	10937.3	9697.4	7877.5	6601.1	6215.4	5941.6
-25°	6470.1	6664.7	6807.7	6869.8	6807.7	6664.7	6470.1	6227.4	5977.7	5855.3	5758.5
-27.5°	5926.2	6029.3	6114.7	6148.5	6114.7	6029.3	5926.2	5833.1	5730.3	5814.3	5903.1
-30°	5805.0	5809.6	5833.8	5833.9	5833.8	5809.6	5805.0	5850.4	5909.5	6077.8	6294.1
-32.5°	6110.2	6043.1	6013.9	6045.2	6013.9	6043.1	6110.2	6225.1	6377.0	6506.8	6599.3
-35°	6576.3	6558.2	6559.7	6593.4	6559.7	6558.2	6576.3	6619.0	6683.0	6744.5	6755.3
-37.5°	6818.1	6832.3	6848.3	6852.3	6848.3	6832.3	6818.1	6815.1	6826.9	6844.5	6746.4
-40°	6885.2	6913.0	6934.0	6941.3	6934.0	6913.0	6885.2	6854.4	6801.3	6722.7	6496.9
-42.5°	6802.0	6857.4	6886.7	6893.6	6886.7	6857.4	6802.0	6720.2	6534.8	6268.6	5798.6
-45°	6331.8	6578.3	6717.8	6755.4	6717.8	6578.3	6331.8	5991.9	5523.9	4984.3	4398.0
-47.5°	4782.9	5170.0	5439.4	5563.8	5439.4	5170.0	4782.9	4350.7	3906.4	3463.7	3024.5
-50°	3020.6	3084.4	3132.1	3161.6	3132.1	3084.4	3020.6	2953.3	2889.0	2825.5	2752.6
-52.5°	2786.7	2810.2	2823.9	2829.6	2823.9	2810.2	2786.7	2760.5	2730.2	2690.7	2647.6
-55°	2690.4	2712.1	2721.6	2723.1	2721.6	2712.1	2690.4	2665.1	2635.6	2596.7	2556.5
-57.5°	2571.4	2604.5	2619.1	2621.5	2619.1	2604.5	2571.4	2532.0	2486.3	2432.6	2373.0
-60°	2332.5	2364.5	2380.3	2386.3	2380.3	2364.5	2332.5	2293.6	2247.8	2195.1	2136.5
-62.5°	2073.6	2108.4	2119.0	2117.8	2119.0	2108.4	2073.6	2032.4	1984.9	1933.1	1876.5
-65°	1786.6	1818.5	1827.7	1827.1	1827.7	1818.5	1786.6	1749.2	1706.3	1659.8	1609.8
-67.5°	1507.2	1535.3	1545.1	1547.5	1545.1	1535.3	1507.2	1474.7	1438.0	1398.9	1358.0
-70°	1247.9	1270.1	1275.7	1275.8	1275.7	1270.1	1247.9	1222.0	1192.5	1160.4	1126.8
-72.5°	1023.4	1042.6	1045.9	1045.4	1045.9	1042.6	1023.4	1002.0	978.5	953.4	927.6
-75°	856.7	871.9	872.4	870.6	872.4	871.9	856.7	840.4	823.1	804.8	785.3
-77.5°	746.2	757.4	759.8	761.0	759.8	757.4	746.2	734.2	721.4	707.6	691.3
-80°	667.6	678.4	678.1	676.8	678.1	678.4	667.6	656.1	644.2	631.6	618.0
-82.5°	585.4	594.6	594.7	594.2	594.7	594.6	585.4	575.7	565.7	555.4	544.2
-85°	498.7	504.6	504.3	503.6	504.3	504.6	498.7	492.5	486.0	479.3	470.0
-87.5°	421.4	425.6	425.7	425.8	425.7	425.6	421.4	417.0	412.6	408.1	401.2
-90°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	348.8	343.6	338.4	332.5	326.5	320.6	314.6	305.9	297.1	288.4	279.6
87.5°	2.4	2.7	3.1	3.1	3.1	3.1	3.2	3.6	4.0	4.4	4.8
85°	2.4	2.8	3.2	3.2	3.2	3.2	3.2	3.6	4.0	4.4	4.8
82.5°	3.1	3.1	3.2	3.5	3.7	3.9	3.9	4.1	4.3	4.5	4.8
80°	3.2	3.2	3.3	3.7	4.1	4.5	4.8	4.9	4.9	4.8	4.9
77.5°	3.2	3.2	3.3	3.7	4.1	4.5	4.9	5.3	5.5	5.7	5.7
75°	4.8	4.8	4.8	5.0	5.0	4.8	5.0	5.4	5.8	6.2	6.4
72.5°	10.7	10.3	10.0	10.0	9.7	9.8	9.4	8.7	7.9	7.0	6.6
70°	16.3	16.7	17.6	18.7	18.9	18.4	17.8	16.3	13.5	11.6	10.4
67.5°	17.1	18.3	20.5	23.0	24.3	25.3	27.2	28.2	27.0	24.0	18.5
65°	13.9	16.1	18.5	20.6	23.2	26.6	33.7	37.6	38.6	37.4	31.2
62.5°	8.7	10.5	12.7	15.2	18.0	22.8	32.0	39.7	46.1	48.1	41.3
60°	4.7	5.1	7.6	10.2	12.6	17.9	27.4	37.4	48.1	49.4	47.3
57.5°	5.2	6.0	8.3	9.6	9.8	16.1	24.4	32.5	42.4	48.1	48.4
55°	11.5	13.5	16.0	16.5	16.0	23.0	27.2	32.1	41.2	46.9	50.5
52.5°	37.6	48.1	48.5	35.6	38.3	46.9	40.9	43.8	51.5	59.0	59.5
50°	148.9	152.2	137.0	111.6	121.9	108.8	96.3	80.7	91.7	94.0	81.2
47.5°	369.0	339.0	302.1	273.1	266.2	262.4	228.1	185.7	198.1	159.3	140.4
45°	627.3	582.0	522.5	473.2	433.7	415.9	408.1	381.6	356.3	321.7	225.8
42.5°	1177.0	964.8	789.4	713.0	608.8	565.1	541.0	536.7	524.9	502.9	430.0
40°	1842.6	1824.3	1518.0	1106.0	916.2	735.7	674.1	647.6	647.4	643.5	603.7
37.5°	2192.0	2146.3	2063.0	1871.4	1432.9	1122.8	894.2	769.7	738.4	736.9	709.3
35°	2272.7	2262.1	2259.4	2172.8	2029.8	1725.4	1327.8	1000.4	848.4	813.8	798.8
32.5°	2332.6	2352.5	2362.9	2344.7	2355.8	2346.6	1967.4	1459.6	1013.5	910.9	874.2
30°	2419.1	2447.9	2461.2	2504.6	2591.5	2629.0	2626.9	2031.8	1413.8	1013.5	956.0
27.5°	2531.8	2554.9	2583.5	2729.1	2804.1	2856.4	2888.5	2716.3	1857.6	1296.0	1051.6
25°	2761.4	2688.5	2854.3	3004.1	3069.4	3098.2	3181.3	3103.9	2517.8	1627.8	1150.8
22.5°	3115.8	3015.8	3087.2	3331.7	3356.0	3374.5	3434.5	3452.9	3177.4	2107.4	1440.1
20°	3551.3	3365.5	3347.8	3476.0	3598.0	3619.2	3684.0	3714.1	3458.9	2693.5	1767.9
17.5°	4121.2	3749.5	3571.0	3611.8	3754.2	3826.7	3893.8	3914.3	3736.6	3221.2	2097.5
15°	5114.8	4193.8	3861.7	3784.4	3877.8	4001.1	4089.2	4154.7	3985.9	3563.5	2536.0
12.5°	8313.7	4701.4	4142.0	3907.0	3955.5	4128.0	4262.9	4343.8	4182.2	3792.6	2969.4
10°	11963.7	6017.2	4515.6	4142.1	4058.5	4208.9	4383.7	4438.1	4314.9	3981.8	3335.3
7.5°	18010.0	7727.5	4868.2	4369.5	4189.9	4277.5	4435.7	4503.3	4427.5	4131.0	3637.2
5°	22358.4	9121.0	5207.8	4594.6	4336.5	4385.3	4494.6	4570.5	4521.2	4246.7	3878.8
2.5°	25756.4	10420.2	5504.8	4792.1	4475.5	4509.5	4613.5	4640.5	4562.5	4261.4	3976.8
0°	27986.1	11011.7	5624.2	4890.2	4580.4	4607.4	4823.5	4713.9	4574.0	4243.6	4027.5
-2.5°	27759.9	10721.9	5676.8	4957.6	4681.4	4732.8	4990.2	4995.7	4679.2	4288.2	4066.8
-5°	26289.3	10711.1	5792.3	5063.2	4806.5	4877.5	5135.7	5169.4	4772.3	4349.1	4055.5
-7.5°	21263.6	9592.1	5807.5	5141.1	4936.8	5041.9	5265.1	5239.8	4882.8	4526.4	4104.1
-10°	14225.2	7632.0	5742.9	5223.7	5087.0	5230.2	5401.6	5307.3	4993.6	4692.1	4083.7
-12.5°	10513.8	6440.3	5655.6	5280.6	5260.7	5471.2	5557.6	5373.4	5113.0	4845.6	3986.2
-15°	7335.3	6143.4	5640.2	5453.8	5509.9	5686.0	5690.0	5415.7	5177.9	4948.1	3805.6
-17.5°	6404.1	5912.8	5630.7	5619.7	5790.9	5858.4	5717.6	5455.0	5203.4	4787.0	3471.1
-20°	5975.5	5750.9	5782.4	5904.2	6043.2	6036.2	5735.4	5483.2	5184.4	4347.1	3086.6



REPORT NUMBER: P731717 (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°	5784.0	5834.3	5974.2	6213.3	6251.8	6048.4	5762.5	5485.4	5119.8	3828.0	2687.9
-25°	5865.4	6056.9	6312.9	6413.2	6333.4	6042.2	5775.4	5430.6	4561.3	3314.1	2339.6
-27.5°	6131.5	6412.9	6580.4	6551.6	6314.9	6032.7	5720.4	5221.8	3916.1	2860.7	2323.1
-30°	6479.5	6626.8	6680.4	6563.9	6272.9	5977.7	5628.9	4459.5	3334.0	2483.3	2284.8
-32.5°	6698.6	6697.0	6642.1	6450.0	6197.8	5895.5	4879.4	3695.5	2734.2	2428.6	2257.9
-35°	6750.7	6615.7	6433.9	6257.8	6130.8	5147.1	4020.0	2997.4	2558.5	2372.6	2232.7
-37.5°	6590.1	6358.9	6144.9	5878.6	5121.3	4175.3	3125.0	2653.3	2470.8	2339.9	2211.8
-40°	6216.1	5965.7	5356.3	4708.7	3936.7	3051.7	2720.7	2539.9	2421.6	2308.2	2190.4
-42.5°	5272.4	4720.5	4133.7	3466.5	2881.5	2737.4	2595.8	2482.5	2374.6	2273.2	2107.8
-45°	3917.7	3423.2	2937.2	2824.6	2694.3	2606.1	2527.4	2431.5	2335.0	2176.9	2000.2
-47.5°	2888.2	2811.7	2723.4	2660.9	2593.9	2525.6	2464.0	2382.5	2218.3	2050.3	1868.3
-50°	2691.0	2655.7	2614.7	2570.5	2520.4	2463.8	2361.9	2235.6	2074.2	1903.2	1728.5
-52.5°	2600.9	2566.0	2532.0	2497.4	2414.9	2306.0	2191.4	2062.0	1911.9	1745.7	1578.3
-55°	2515.1	2453.6	2384.6	2309.6	2226.0	2116.2	2000.1	1874.0	1733.8	1577.2	1427.7
-57.5°	2308.0	2240.3	2170.6	2095.6	2015.5	1908.1	1789.8	1668.8	1547.1	1408.2	1275.2
-60°	2072.5	2005.5	1935.8	1858.4	1773.7	1676.7	1576.9	1469.4	1354.3	1248.3	1140.9
-62.5°	1814.1	1746.4	1682.0	1615.4	1546.1	1469.4	1376.9	1286.6	1194.5	1099.5	1000.5
-65°	1554.8	1495.2	1439.9	1388.6	1334.4	1276.4	1196.6	1114.5	1030.3	944.3	856.9
-67.5°	1313.6	1266.0	1221.9	1178.2	1131.2	1080.2	1011.2	937.4	871.3	806.8	738.7
-70°	1089.4	1048.4	1008.7	969.8	933.8	898.3	850.1	795.1	738.2	690.8	647.0
-72.5°	899.4	868.9	839.3	811.6	780.8	755.9	726.3	689.8	652.2	613.6	577.9
-75°	764.5	742.5	721.4	703.6	684.6	664.3	642.5	615.4	588.4	561.5	534.3
-77.5°	674.5	657.3	640.9	628.3	615.1	601.1	584.2	560.7	537.4	513.9	490.1
-80°	603.9	589.5	575.3	564.2	552.7	540.8	527.2	506.9	486.4	465.7	444.7
-82.5°	532.6	520.7	508.7	499.2	489.4	479.3	468.2	450.7	433.1	415.4	397.7
-85°	460.6	450.9	441.1	433.6	425.9	417.9	409.5	395.1	380.6	365.9	351.2
-87.5°	394.2	387.2	380.1	374.3	368.4	362.4	356.1	344.8	333.5	322.2	310.9
-90°	1.6	1.6	1.6	2.0	2.4	2.8	3.2	3.6	4.0	4.4	4.8



REPORT NUMBER: P731717 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-80-1S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	269.3	259.0	248.6	238.3	224.4	210.5	196.6	182.7	168.0	153.3	138.6
87.5°	4.8	4.8	4.8	4.8	5.2	5.6	6.0	6.4	6.4	6.4	6.4
85°	4.8	4.8	4.8	4.8	5.2	5.6	6.0	6.4	6.4	6.4	6.4
82.5°	4.8	4.8	4.8	4.8	5.2	5.6	6.0	6.4	6.5	6.4	6.4
80°	5.1	5.3	5.3	5.3	5.5	5.7	6.1	6.5	6.9	7.0	6.9
77.5°	5.7	5.8	6.1	6.3	6.4	6.4	6.5	6.7	7.2	7.6	7.6
75°	6.4	6.3	6.3	6.7	7.1	7.2	7.3	7.6	8.2	8.3	8.4
72.5°	6.8	6.8	6.7	7.0	7.8	8.2	8.2	8.6	9.5	9.8	9.4
70°	9.2	7.9	7.5	8.4	9.2	9.3	9.6	10.4	10.9	11.4	11.1
67.5°	13.4	11.9	10.3	10.5	11.3	11.7	11.2	12.5	13.5	13.1	12.8
65°	24.6	18.7	14.4	15.3	15.1	14.4	14.1	15.4	16.3	16.1	14.7
62.5°	34.6	28.0	23.5	21.9	20.6	19.3	17.5	19.5	19.6	19.2	17.4
60°	43.6	36.3	33.9	32.6	28.9	25.3	24.3	24.0	24.2	22.5	20.7
57.5°	46.0	43.3	46.1	44.8	40.5	34.4	32.6	31.7	29.1	27.0	24.2
55°	48.3	48.9	59.3	59.6	54.0	46.4	44.1	41.6	35.4	32.0	28.6
52.5°	56.0	63.7	74.5	76.6	70.6	62.1	60.8	52.4	46.0	37.2	34.6
50°	74.0	88.5	97.3	97.8	89.4	86.2	79.1	69.7	57.4	44.2	41.3
47.5°	124.9	137.2	129.6	124.9	114.7	114.4	105.2	88.8	69.4	55.4	48.4
45°	226.7	215.1	186.2	162.2	152.7	151.6	136.4	109.2	88.1	69.1	56.0
42.5°	350.7	325.8	281.9	204.8	205.5	195.2	170.9	139.6	107.8	83.5	66.8
40°	519.1	456.5	395.8	315.9	266.2	243.9	214.5	173.8	128.6	100.3	79.8
37.5°	672.9	595.1	527.8	425.9	341.1	305.1	262.5	210.3	155.5	121.3	93.0
35°	765.9	720.9	644.5	532.3	437.8	371.2	313.8	251.2	189.2	142.8	106.5
32.5°	845.9	819.0	741.2	634.0	528.8	441.9	372.7	293.9	222.3	164.6	120.3
30°	920.3	892.0	837.1	728.5	615.2	521.6	432.1	334.9	254.6	186.7	135.2
27.5°	998.2	965.3	927.3	816.4	698.4	596.2	482.4	373.9	286.1	210.9	153.4
25°	1078.3	1037.1	995.1	903.3	775.2	655.5	530.7	411.2	318.5	237.4	171.4
22.5°	1169.5	1106.1	1062.5	989.1	845.0	715.4	578.9	452.3	350.3	262.9	189.2
20°	1259.8	1172.7	1127.4	1058.5	914.3	775.3	628.4	491.1	380.1	287.4	206.7
17.5°	1380.9	1243.0	1178.9	1107.4	979.4	833.0	677.0	527.6	408.1	310.6	223.7
15°	1665.4	1318.7	1230.2	1154.7	1038.6	888.1	724.2	561.5	434.2	332.6	239.3
12.5°	1963.1	1393.8	1281.5	1200.2	1092.1	940.4	769.4	592.8	458.2	352.6	253.0
10°	2263.3	1467.2	1332.1	1243.5	1140.0	989.5	812.1	625.0	484.5	370.9	265.5
7.5°	2554.5	1537.9	1381.5	1284.5	1183.0	1032.0	852.4	662.6	510.2	387.8	276.8
5°	2803.8	1600.5	1431.1	1328.7	1222.6	1066.6	887.7	697.8	534.4	403.3	287.0
2.5°	2924.3	1650.4	1479.1	1371.3	1258.5	1096.5	918.0	730.2	556.7	417.0	295.9
0°	2993.2	1693.6	1523.6	1410.8	1290.1	1121.7	943.7	759.4	576.7	429.0	303.5
-2.5°	2988.2	1734.6	1566.2	1452.4	1335.2	1156.0	964.7	775.7	592.1	443.0	313.9
-5°	2934.5	1769.6	1605.2	1491.1	1374.9	1184.9	981.3	788.3	604.9	454.9	322.9
-7.5°	2896.2	1809.7	1643.6	1527.4	1408.4	1207.4	993.2	797.2	614.9	464.5	330.4
-10°	2813.7	1849.2	1682.3	1561.3	1428.8	1222.3	1001.2	802.4	622.3	471.7	336.4
-12.5°	2668.1	1880.3	1716.0	1590.9	1442.0	1230.7	1010.3	807.8	627.2	476.4	340.8
-15°	2456.7	1902.5	1744.4	1615.8	1448.9	1233.5	1014.1	810.9	631.7	479.1	343.5
-17.5°	2177.4	1915.4	1767.1	1635.7	1449.5	1230.8	1012.3	809.6	633.0	480.0	345.5
-20°	2132.4	1931.3	1784.3	1650.4	1443.7	1222.7	1004.9	803.8	631.1	478.3	346.5



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2134.6	1951.6	1803.4	1642.1	1430.3	1209.1	991.8	793.5	625.9	474.0	345.6
-25°	2128.1	1965.4	1820.2	1633.3	1409.5	1190.0	974.8	778.5	617.4	467.2	342.7
-27.5°	2129.7	1974.3	1833.7	1616.5	1389.2	1164.1	954.2	765.9	606.1	457.6	337.8
-30°	2130.1	1983.9	1814.8	1590.2	1360.6	1135.3	928.4	749.6	592.9	448.7	331.0
-32.5°	2117.8	1990.3	1779.7	1551.4	1323.1	1100.1	899.2	729.5	576.7	439.3	327.2
-35°	2107.3	1952.3	1735.2	1503.5	1277.2	1063.9	869.6	705.5	557.4	427.4	323.7
-37.5°	2087.9	1884.0	1673.5	1446.1	1223.4	1021.7	841.0	680.8	535.0	413.0	318.7
-40°	2005.4	1803.1	1593.1	1379.3	1168.6	973.4	807.1	652.6	514.4	396.1	312.4
-42.5°	1913.3	1707.8	1503.9	1302.1	1109.4	930.3	768.5	619.7	492.0	383.9	304.6
-45°	1801.8	1603.8	1406.7	1223.4	1045.9	881.8	726.9	583.7	466.6	373.4	298.0
-47.5°	1681.7	1490.9	1309.5	1138.7	985.2	828.3	680.0	551.7	438.7	361.2	293.6
-50°	1551.7	1376.4	1210.7	1058.1	914.8	770.1	631.3	516.4	421.5	346.4	288.4
-52.5°	1418.4	1262.5	1114.8	976.1	839.9	706.3	587.8	479.6	402.2	335.8	282.2
-55°	1283.6	1153.4	1020.4	888.8	760.3	648.8	540.7	455.0	381.0	326.6	275.4
-57.5°	1159.2	1044.5	919.6	796.1	687.2	589.3	502.7	428.0	366.7	316.4	269.5
-60°	1033.8	925.8	813.0	711.5	617.1	537.4	469.2	403.6	353.9	305.8	262.3
-62.5°	901.4	806.3	719.6	629.9	558.3	496.0	436.6	387.8	340.1	296.2	254.2
-65°	780.9	703.9	628.4	569.9	511.4	458.3	416.9	371.0	327.3	285.7	245.4
-67.5°	669.9	620.6	571.1	517.4	474.3	434.7	395.6	354.9	314.1	274.5	235.9
-70°	602.3	557.3	520.6	484.5	447.2	410.4	375.7	338.6	300.0	262.1	225.8
-72.5°	547.3	516.8	486.4	453.9	420.3	387.4	355.2	321.2	284.5	249.0	215.0
-75°	506.7	479.3	452.4	424.2	393.5	363.4	333.2	302.1	268.1	235.3	203.6
-77.5°	465.8	441.8	418.1	393.0	364.9	337.1	309.9	282.1	250.9	220.7	191.6
-80°	423.5	402.4	381.4	359.8	334.8	310.1	285.6	260.9	232.8	205.5	179.2
-82.5°	379.7	361.8	343.8	325.4	303.4	281.7	260.3	238.9	214.1	189.9	167.6
-85°	336.0	320.7	305.4	289.9	271.3	252.8	235.7	218.3	197.8	177.8	158.2
-87.5°	298.9	286.9	274.9	262.8	247.3	231.8	216.3	200.7	183.1	165.7	148.5
-90°	4.8	4.8	4.8	4.8	5.2	5.6	6.0	6.4	6.4	6.4	6.4



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	123.9	103.2	82.6	61.9	41.3	25.4	9.5
87.5°	6.4	6.6	6.7	6.7	6.7	8.2	9.5
85°	6.4	6.7	6.9	7.0	7.0	8.5	9.5
82.5°	6.4	6.9	7.2	7.3	7.2	8.8	9.5
80°	6.6	7.1	7.5	7.6	7.6	9.1	9.5
77.5°	7.5	7.6	7.8	7.9	7.9	9.4	9.5
75°	8.4	8.7	8.3	8.3	8.2	9.7	9.5
72.5°	9.4	9.9	9.4	8.6	8.6	10.0	9.5
70°	10.6	11.0	10.6	9.1	9.0	10.3	9.5
67.5°	12.6	12.3	11.8	10.1	9.4	10.6	9.5
65°	14.8	14.0	13.0	11.2	9.8	10.9	9.5
62.5°	17.2	16.4	14.2	12.2	10.3	11.2	9.5
60°	19.7	18.8	15.5	13.3	10.8	11.5	9.5
57.5°	23.5	21.3	17.7	14.4	11.8	11.9	9.5
55°	27.8	23.9	20.0	15.5	13.0	12.2	9.5
52.5°	32.3	26.8	22.3	16.6	14.1	12.5	9.5
50°	37.1	31.0	24.7	17.7	15.3	12.9	9.5
47.5°	42.3	35.3	27.0	19.0	16.5	13.2	9.5
45°	49.0	39.8	29.5	20.8	17.8	13.6	9.5
42.5°	56.0	44.4	31.9	22.6	19.1	13.9	9.5
40°	63.2	49.0	35.0	25.1	20.4	14.3	9.5
37.5°	70.8	53.8	38.6	27.9	21.8	14.6	9.5
35°	78.5	59.5	42.3	30.7	23.1	14.9	9.5
32.5°	87.4	65.6	45.9	33.7	24.5	15.3	9.5
30°	98.6	71.8	49.5	36.6	25.9	15.6	9.5
27.5°	109.7	78.0	54.7	39.6	27.3	16.0	9.5
25°	120.7	84.2	59.9	42.6	28.7	16.3	9.5
22.5°	131.5	90.8	65.2	45.6	30.1	16.6	9.5
20°	142.1	98.4	70.3	48.5	31.5	16.9	9.5
17.5°	152.7	105.6	75.4	51.5	32.9	17.3	9.5
15°	163.0	112.6	80.4	54.4	34.2	17.6	9.5
12.5°	172.7	119.4	85.2	57.2	35.6	17.8	9.5
10°	181.7	125.7	89.8	60.0	36.8	18.1	9.5
7.5°	190.2	131.8	94.3	62.6	38.0	18.4	9.5
5°	197.9	137.5	98.6	65.2	39.2	18.6	9.5
2.5°	205.0	142.8	102.6	67.6	40.3	18.9	9.5
0°	211.3	147.8	106.4	69.9	41.3	19.1	9.5
-2.5°	218.8	153.9	111.2	73.6	43.5	20.0	9.5
-5°	225.5	159.7	115.7	77.1	45.7	20.9	9.5
-7.5°	231.5	164.9	119.8	80.4	47.8	21.8	9.5
-10°	236.6	169.8	123.7	83.5	49.7	22.7	9.5
-12.5°	240.9	174.1	127.3	86.4	51.5	23.5	9.5
-15°	244.4	178.0	130.6	89.1	53.2	24.3	9.5
-17.5°	247.0	181.4	133.6	91.5	54.8	25.0	9.5
-20°	249.3	184.3	136.2	93.7	56.2	25.7	9.5



REPORT NUMBER: P731717 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-80-1S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	251.4	186.7	138.5	95.7	57.5	26.4	9.5
-25°	252.4	189.0	140.6	97.4	58.6	27.0	9.5
-27.5°	252.4	190.9	142.3	98.8	59.5	27.6	9.5
-30°	251.3	192.2	143.6	100.0	60.3	28.2	9.5
-32.5°	249.1	192.9	144.8	100.9	60.9	28.7	9.5
-35°	248.3	193.0	145.5	101.5	61.4	29.1	9.5
-37.5°	247.8	192.9	145.8	101.8	61.7	29.5	9.5
-40°	246.5	192.8	145.7	101.8	61.8	29.8	9.5
-42.5°	244.4	192.2	145.3	101.5	61.7	30.1	9.5
-45°	241.6	191.1	144.5	101.0	61.4	30.3	9.5
-47.5°	238.0	189.4	143.4	100.1	61.0	30.5	9.5
-50°	234.9	187.1	141.8	99.1	60.4	30.6	9.5
-52.5°	231.4	184.3	139.8	97.8	59.6	30.6	9.5
-55°	227.3	181.1	137.4	96.3	58.7	30.6	9.5
-57.5°	222.5	177.4	134.6	94.5	57.5	30.6	9.5
-60°	217.0	173.2	131.5	92.4	56.3	30.5	9.5
-62.5°	211.0	168.5	128.1	90.1	55.7	30.3	9.5
-65°	204.4	163.3	124.4	87.5	54.9	30.1	9.5
-67.5°	197.1	157.7	120.3	84.7	54.1	29.8	9.5
-70°	189.4	151.8	115.9	81.7	53.1	29.5	9.5
-72.5°	181.1	145.3	111.1	79.6	52.0	29.1	9.5
-75°	172.3	138.5	106.1	77.5	50.7	28.7	9.5
-77.5°	163.1	131.4	102.4	75.3	49.4	28.3	9.5
-80°	153.4	125.6	98.9	73.0	47.9	27.8	9.5
-82.5°	146.2	120.3	95.1	70.4	46.4	27.2	9.5
-85°	139.0	114.9	91.1	67.7	44.8	26.7	9.5
-87.5°	131.6	109.2	86.9	64.9	43.1	26.0	9.5
-90°	6.4	6.4	6.4	6.4	6.4	8.0	9.5

(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

