

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: P731621 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-80-1S-VHE**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731621 (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-40-80-1S-VHE  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 1S BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

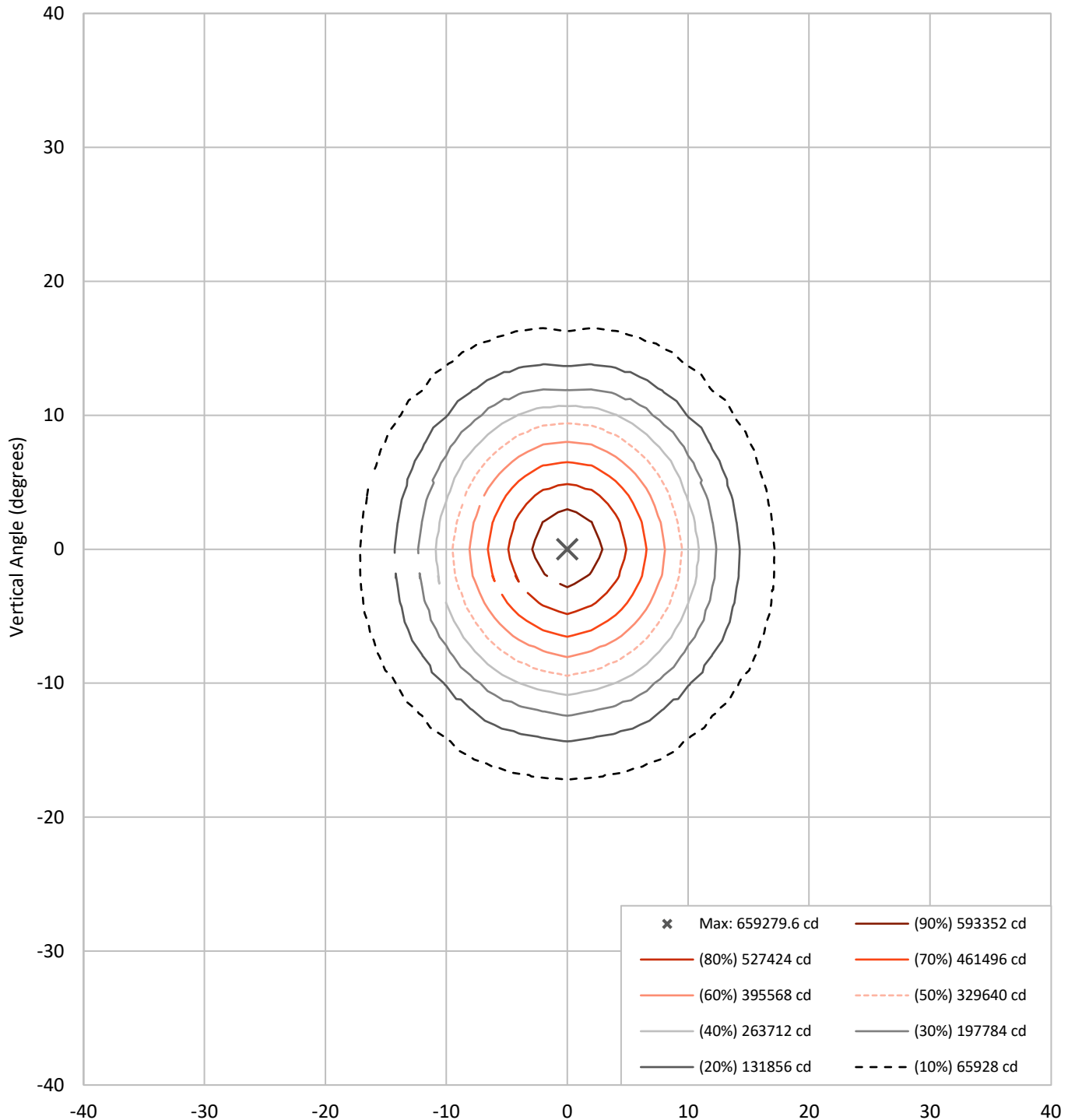
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	86899.4 lumens	Max Intensity:	659279.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	120.0 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:	38521 lumens	Field Lumens:	70160.1 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





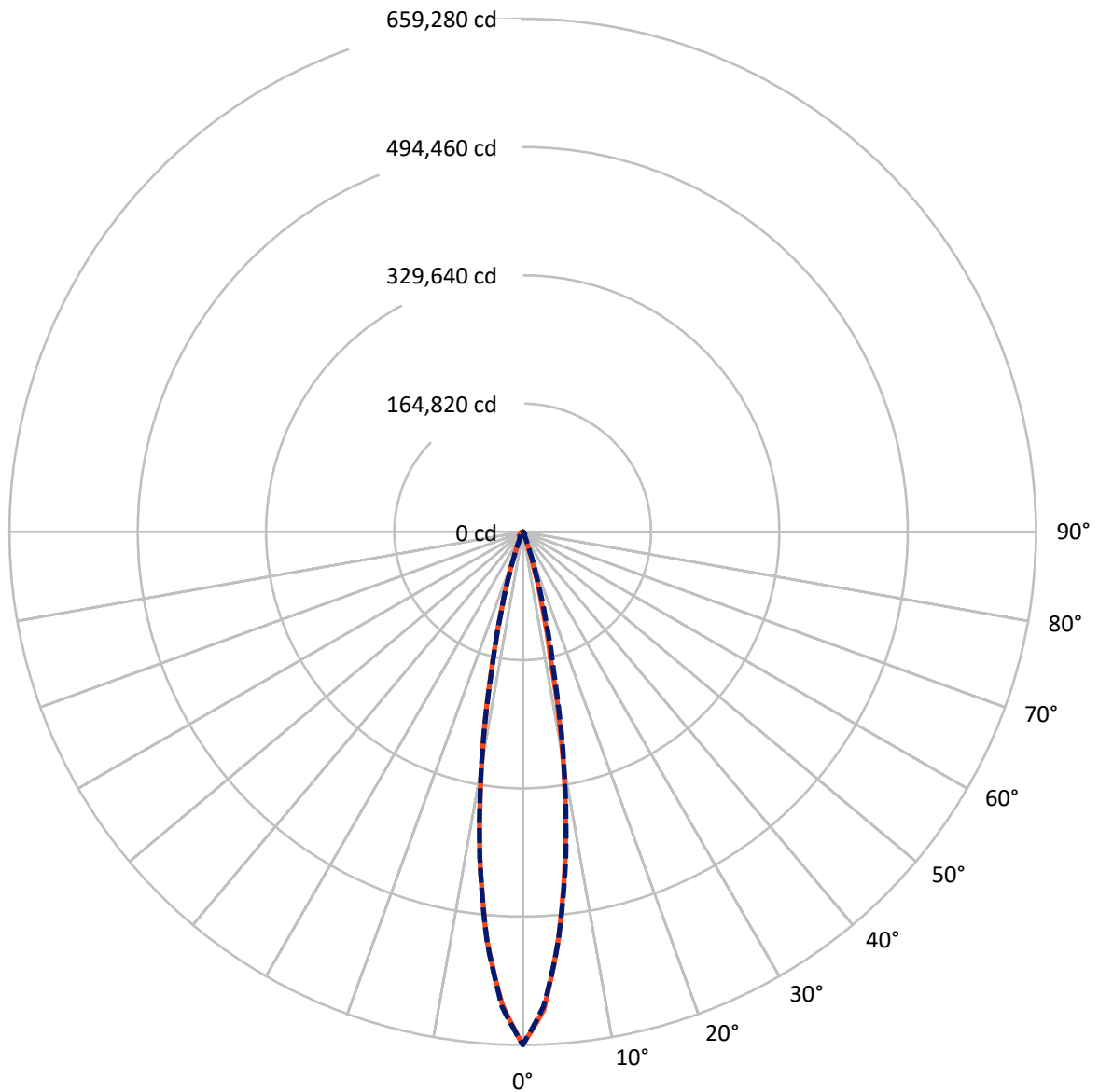
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### Lumen Table

90	0.3	1.2	2.2	3.0	3.3	3.0	2.2	1.2	0.3										
80	0.3	1.2	2.2	3.0	3.3	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		0.5	1.0	1.2	1.0	0.9	1.2	1.3	1.3	1.2	0.9	1.0	1.2	1.0	0.5				
50	1.2	1.5	3.3	6.3	9.8	16.9	25.7	28.5	28.5	25.7	16.9	9.8	6.3	3.3	1.5	1.2			
40		3.3	9.4	16.9	35.6	58.1	65.1	68.3	68.3	65.1	58.1	35.6	16.9	9.4	3.3				
30	2.8	5.6	15.3	31.4	74.8	79.3	96.3	159.3	159.3	96.3	79.3	74.8	31.4	15.3	5.6	2.8			
20		7.6	19.7	56.0	99.1	116.9	728.2	2901.8	2901.8	728.2	116.9	99.1	56.0	19.7	7.6				
10	4.2	9.3	23.1	74.1	110.5	218.1	2942.2	12241.2	12241.2	2942.2	218.1	110.5	74.1	23.1	9.3	4.2			
0		10.4	25.8	79.1	122.9	243.9	3093.2	12182.2	12182.2	3093.2	243.9	122.9	79.1	25.8	10.4				
-10	4.9	10.8	27.7	78.1	136.1	167.8	858.8	3144.2	3144.2	858.8	167.8	136.1	78.1	27.7	10.8	4.9			
-20		10.4	28.0	60.4	138.7	169.8	185.3	287.8	287.8	185.3	169.8	138.7	60.4	28.0	10.4				
-30	4.6	9.4	26.2	48.2	101.6	170.7	191.8	194.0	194.0	191.8	170.7	101.6	48.2	26.2	9.4	4.6			
-40		7.8	21.5	42.2	63.0	95.1	140.9	175.8	175.8	140.9	95.1	63.0	42.2	21.5	7.8				
-50	3.9	6.1	15.6	30.7	49.0	63.8	74.4	81.2	81.2	74.4	63.8	49.0	30.7	15.6	6.1	3.9			
-60		4.8	10.2	18.7	29.6	39.7	48.5	54.3	54.3	48.5	39.7	29.6	18.7	10.2	4.8				
-70	2.7	18.3	43.8	68.8	82.1	68.8	43.8	18.3	2.7							2.7			
-80		18.3	43.8	68.8	82.1	68.8	43.8	18.3	2.7										
-90	2.7	18.3	43.8	68.8	82.1	68.8	43.8	18.3	2.7										

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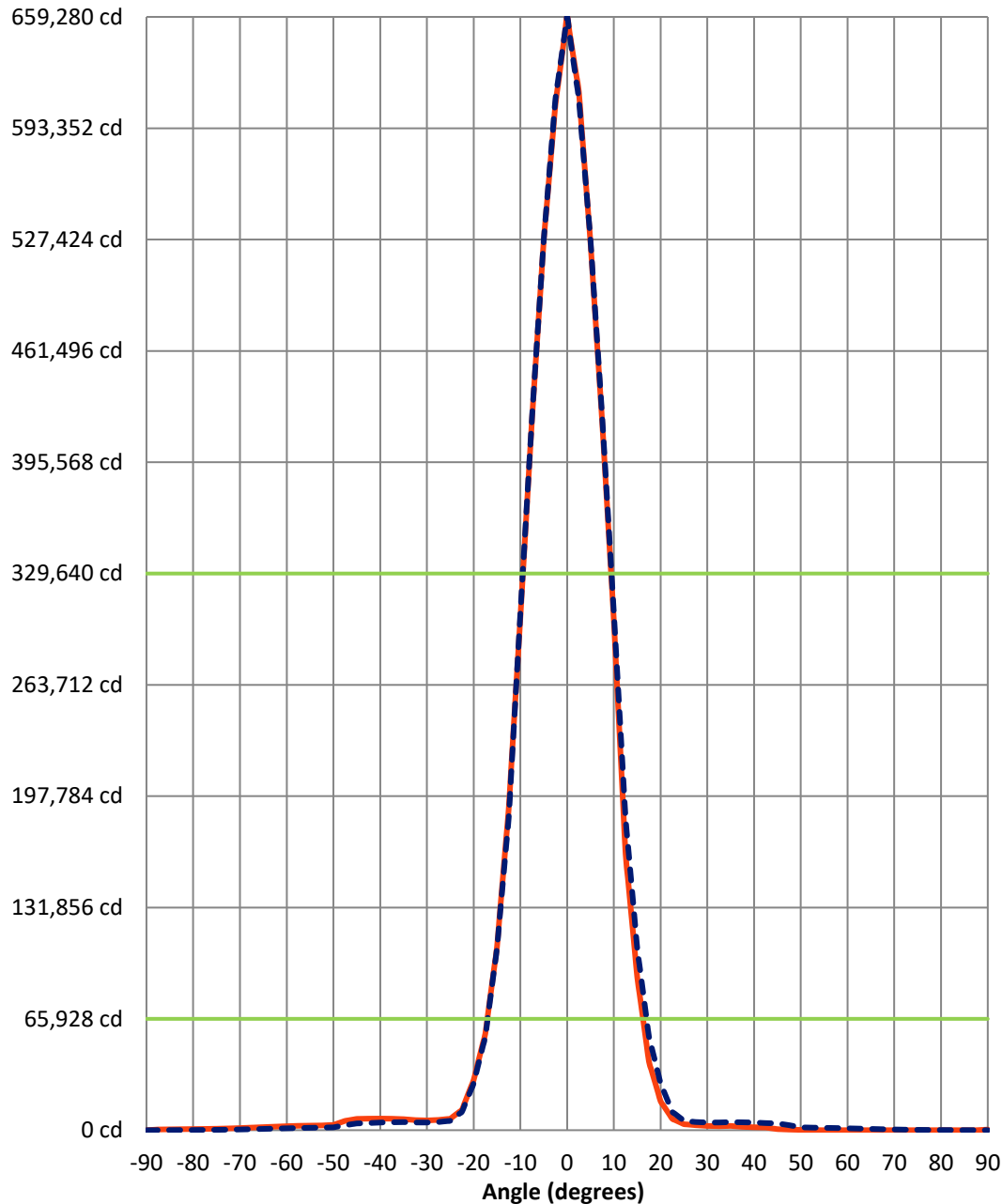
### Luminous Intensity Polar Plot



— 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: 38521  
 Efficiency: 44.3%

**Field:**  
 H Angle: 34°  
 V Angle: 33.3°  
 Lumens: 70160.1  
 Efficiency: 80.7%

**Spill:**  
 Lumens: 16739.3  
 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°	9.4	25.1	40.9	61.3	81.8	102.2	122.7	137.3	151.9	166.4	181.0
87.5°	9.4	8.1	6.6	6.6	6.6	6.5	6.3	6.3	6.3	6.3	6.3
85°	9.4	8.4	6.9	6.9	6.8	6.6	6.3	6.3	6.3	6.3	6.3
82.5°	9.4	8.7	7.1	7.2	7.1	6.8	6.3	6.3	6.3	6.4	6.3
80°	9.4	9.0	7.5	7.5	7.4	7.0	6.5	6.8	6.9	6.8	6.4
77.5°	9.4	9.3	7.8	7.8	7.7	7.5	7.3	7.5	7.5	7.1	6.6
75°	9.4	9.6	8.1	8.2	8.2	8.6	8.3	8.3	8.2	8.1	7.5
72.5°	9.4	9.9	8.5	8.5	9.3	9.7	9.3	9.3	9.7	9.4	8.5
70°	9.4	10.2	8.9	9.0	10.5	10.9	10.5	11.0	11.3	10.9	10.3
67.5°	9.4	10.5	9.3	10.0	11.6	12.1	12.5	12.7	13.0	13.4	12.4
65°	9.4	10.8	9.7	11.1	12.8	13.9	14.7	14.5	15.9	16.1	15.3
62.5°	9.4	11.1	10.2	12.1	14.1	16.2	17.0	17.3	19.0	19.4	19.3
60°	9.4	11.4	10.7	13.2	15.3	18.6	19.5	20.5	22.3	24.0	23.8
57.5°	9.4	11.7	11.7	14.2	17.5	21.1	23.3	24.0	26.8	28.8	31.4
55°	9.4	12.1	12.8	15.3	19.8	23.7	27.5	28.4	31.7	35.0	41.2
52.5°	9.4	12.4	14.0	16.4	22.1	26.6	32.0	34.3	36.9	45.6	52.0
50°	9.4	12.7	15.1	17.5	24.4	30.7	36.7	40.9	43.8	56.9	69.0
47.5°	9.4	13.1	16.4	18.8	26.8	35.0	41.9	47.9	54.9	68.8	88.0
45°	9.4	13.4	17.6	20.6	29.2	39.4	48.5	55.5	68.5	87.3	108.2
42.5°	9.4	13.8	18.9	22.4	31.6	44.0	55.4	66.2	82.8	106.8	138.3
40°	9.4	14.1	20.2	24.8	34.7	48.6	62.6	79.0	99.4	127.4	172.2
37.5°	9.4	14.4	21.5	27.6	38.3	53.3	70.1	92.1	120.2	154.0	208.2
35°	9.4	14.8	22.9	30.5	41.9	58.9	77.8	105.5	141.4	187.4	248.8
32.5°	9.4	15.1	24.3	33.3	45.5	65.0	86.6	119.1	163.0	220.2	291.1
30°	9.4	15.5	25.7	36.3	49.1	71.2	97.6	133.9	185.0	252.2	331.7
27.5°	9.4	15.8	27.0	39.2	54.2	77.3	108.6	151.9	208.9	283.4	370.3
25°	9.4	16.1	28.4	42.2	59.4	83.4	119.5	169.8	235.1	315.5	407.3
22.5°	9.4	16.5	29.8	45.1	64.6	90.0	130.2	187.4	260.4	346.9	448.0
20°	9.4	16.8	31.2	48.1	69.7	97.4	140.7	204.7	284.6	376.5	486.4
17.5°	9.4	17.1	32.6	51.0	74.7	104.6	151.2	221.5	307.7	404.2	522.5
15°	9.4	17.4	33.9	53.9	79.6	111.6	161.4	237.0	329.5	430.0	556.2
12.5°	9.4	17.7	35.2	56.7	84.4	118.2	171.0	250.5	349.3	453.8	587.2
10°	9.4	17.9	36.5	59.4	89.0	124.6	180.0	262.9	367.3	479.9	619.1
7.5°	9.4	18.2	37.7	62.0	93.4	130.6	188.4	274.2	384.1	505.3	656.3
5°	9.4	18.5	38.8	64.6	97.7	136.2	196.0	284.2	399.4	529.3	691.2
2.5°	9.4	18.7	39.9	66.9	101.7	141.5	203.0	293.0	413.1	551.4	723.3
0°	9.4	18.9	40.9	69.2	105.4	146.4	209.3	300.6	424.9	571.2	752.2
-2.5°	9.4	19.8	43.1	72.8	110.1	152.5	216.7	310.9	438.8	586.5	768.3
-5°	9.4	20.7	45.3	76.3	114.6	158.1	223.4	319.8	450.5	599.1	780.8
-7.5°	9.4	21.6	47.3	79.6	118.7	163.4	229.3	327.3	460.0	609.1	789.6
-10°	9.4	22.4	49.2	82.7	122.5	168.1	234.4	333.2	467.2	616.4	794.7
-12.5°	9.4	23.2	51.0	85.6	126.1	172.5	238.6	337.5	471.8	621.3	800.1
-15°	9.4	24.0	52.7	88.2	129.3	176.3	242.1	340.2	474.5	625.7	803.2
-17.5°	9.4	24.8	54.2	90.7	132.3	179.7	244.7	342.2	475.4	627.0	801.9
-20°	9.4	25.5	55.6	92.8	134.9	182.5	246.9	343.2	473.7	625.1	796.2



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 CATALOG NUMBER: EPH-LS-08-0680N-40-80-1S-VHE

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	9.4	26.2	56.9	94.8	137.2	184.9	249.0	342.2	469.5	619.9	785.9
-25°	9.4	26.8	58.0	96.5	139.2	187.2	250.0	339.4	462.7	611.5	771.1
-27.5°	9.4	27.4	58.9	97.9	140.9	189.1	250.0	334.6	453.3	600.4	758.6
-30°	9.4	27.9	59.7	99.0	142.2	190.3	248.9	327.8	444.5	587.3	742.5
-32.5°	9.4	28.4	60.3	99.9	143.4	191.0	246.7	324.1	435.1	571.2	722.6
-35°	9.4	28.8	60.8	100.5	144.1	191.1	245.9	320.6	423.3	552.1	698.9
-37.5°	9.4	29.2	61.1	100.8	144.4	191.0	245.4	315.7	409.0	530.0	674.4
-40°	9.4	29.5	61.2	100.8	144.3	190.9	244.1	309.4	392.3	509.5	646.4
-42.5°	9.4	29.8	61.1	100.6	143.9	190.4	242.1	301.8	380.3	487.4	613.9
-45°	9.4	30.0	60.8	100.0	143.2	189.2	239.3	295.2	369.9	462.2	578.2
-47.5°	9.4	30.2	60.4	99.2	142.0	187.5	235.7	290.9	357.8	434.5	546.5
-50°	9.4	30.3	59.8	98.1	140.4	185.3	232.7	285.7	343.2	417.5	511.5
-52.5°	9.4	30.3	59.0	96.9	138.4	182.6	229.2	279.5	332.7	398.5	475.1
-55°	9.4	30.3	58.1	95.4	136.1	179.4	225.1	272.8	323.5	377.4	450.7
-57.5°	9.4	30.3	57.0	93.6	133.3	175.7	220.3	266.9	313.4	363.3	424.0
-60°	9.4	30.2	55.7	91.5	130.2	171.6	214.9	259.8	302.9	350.5	399.8
-62.5°	9.4	30.0	55.1	89.2	126.9	166.9	209.0	251.8	293.3	336.8	384.1
-65°	9.4	29.8	54.4	86.7	123.2	161.8	202.4	243.1	283.0	324.1	367.4
-67.5°	9.4	29.5	53.5	83.9	119.1	156.2	195.2	233.7	271.8	311.1	351.5
-70°	9.4	29.2	52.6	80.9	114.7	150.3	187.5	223.6	259.6	297.2	335.4
-72.5°	9.4	28.9	51.5	78.8	110.0	143.9	179.3	212.9	246.7	281.8	318.2
-75°	9.4	28.4	50.2	76.8	105.1	137.2	170.6	201.6	233.0	265.5	299.2
-77.5°	9.4	28.0	48.9	74.6	101.4	130.1	161.5	189.8	218.6	248.5	279.4
-80°	9.4	27.5	47.5	72.2	97.9	124.3	151.9	177.5	203.6	230.6	258.4
-82.5°	9.4	27.0	46.0	69.7	94.2	119.2	144.8	166.0	188.1	212.0	236.7
-85°	9.4	26.4	44.3	67.1	90.2	113.8	137.7	156.7	176.1	196.0	216.3
-87.5°	9.4	25.8	42.7	64.3	86.1	108.1	130.3	147.1	164.1	181.4	198.8
-90°	9.4	7.9	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3





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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°	194.8	208.5	222.3	236.0	246.3	256.5	266.8	277.0	285.7	294.3	303.0
87.5°	5.9	5.5	5.1	4.7	4.7	4.7	4.7	4.7	4.3	3.9	3.5
85°	5.9	5.5	5.1	4.7	4.7	4.7	4.7	4.7	4.3	3.9	3.5
82.5°	5.9	5.5	5.1	4.7	4.7	4.7	4.7	4.7	4.4	4.2	4.0
80°	6.0	5.6	5.4	5.2	5.2	5.2	5.0	4.8	4.7	4.8	4.8
77.5°	6.5	6.4	6.3	6.2	6.0	5.7	5.6	5.6	5.6	5.4	5.2
75°	7.2	7.2	7.1	6.6	6.2	6.2	6.3	6.3	6.1	5.7	5.3
72.5°	8.2	8.2	7.7	6.9	6.6	6.8	6.7	6.5	6.9	7.8	8.6
70°	9.5	9.2	9.1	8.3	7.5	7.9	9.1	10.4	11.5	13.4	16.1
67.5°	11.1	11.6	11.2	10.4	10.3	11.8	13.3	18.3	23.8	26.7	27.9
65°	14.0	14.2	15.0	15.2	14.3	18.6	24.3	30.8	37.0	38.2	37.2
62.5°	17.3	19.1	20.4	21.7	23.3	27.7	34.3	40.9	47.6	45.6	39.3
60°	24.0	25.0	28.7	32.3	33.5	35.9	43.1	46.8	49.0	47.7	37.1
57.5°	32.2	34.0	40.2	44.4	45.7	42.9	45.6	47.9	47.7	42.0	32.2
55°	43.7	46.0	53.5	59.0	58.8	48.4	47.8	50.1	46.5	40.8	31.8
52.5°	60.2	61.6	69.9	75.9	73.7	63.0	55.4	59.0	58.4	51.1	43.4
50°	78.4	85.4	88.5	96.9	96.3	87.7	73.2	80.5	93.1	90.8	79.9
47.5°	104.2	113.3	113.6	123.7	128.3	135.9	123.7	139.0	157.8	196.2	184.0
45°	135.1	150.1	151.3	160.7	184.4	213.0	224.5	223.6	318.7	352.9	377.9
42.5°	169.2	193.4	203.6	202.8	279.3	322.7	347.4	425.9	498.1	519.9	531.7
40°	212.5	241.6	263.6	312.9	392.0	452.1	514.2	598.0	637.4	641.3	641.5
37.5°	260.0	302.3	337.8	421.8	522.7	589.4	666.5	702.5	729.9	731.4	762.4
35°	310.8	367.7	433.6	527.2	638.3	714.0	758.6	791.2	806.1	840.4	990.9
32.5°	369.2	437.7	523.7	628.0	734.1	811.2	837.8	865.9	902.2	1003.9	1445.6
30°	428.0	516.6	609.3	721.5	829.2	883.5	911.5	946.9	1003.8	1400.4	2012.4
27.5°	477.8	590.5	691.7	808.7	918.6	956.1	988.7	1041.5	1283.6	1840.0	2690.4
25°	525.6	649.2	767.9	894.7	985.7	1027.2	1068.1	1139.8	1612.3	2493.9	3074.4
22.5°	573.4	708.6	837.0	979.8	1052.5	1095.6	1158.4	1426.4	2087.4	3147.2	3420.1
20°	622.5	767.9	905.6	1048.5	1116.7	1161.6	1247.8	1751.1	2667.9	3426.0	3678.7
17.5°	670.6	825.0	970.1	1096.9	1167.7	1231.2	1367.8	2077.6	3190.6	3701.1	3877.1
15°	717.3	879.7	1028.7	1143.8	1218.5	1306.2	1649.6	2511.9	3529.6	3948.0	4115.1
12.5°	762.1	931.5	1081.7	1188.8	1269.3	1380.5	1944.5	2941.2	3756.6	4142.4	4302.4
10°	804.4	980.1	1129.2	1231.7	1319.5	1453.3	2241.8	3303.6	3943.9	4273.9	4395.9
7.5°	844.3	1022.2	1171.7	1272.3	1368.4	1523.2	2530.2	3602.6	4091.7	4385.4	4460.5
5°	879.3	1056.5	1211.0	1316.0	1417.5	1585.3	2777.1	3841.9	4206.3	4478.2	4527.1
2.5°	909.3	1086.0	1246.5	1358.2	1465.0	1634.7	2896.5	3938.9	4220.9	4519.1	4596.4
0°	934.8	1111.0	1277.8	1397.4	1509.1	1677.5	2964.8	3989.2	4203.2	4530.6	4669.0
-2.5°	955.6	1145.0	1322.5	1438.7	1551.3	1718.1	2959.8	4028.1	4247.5	4634.7	4948.2
-5°	972.0	1173.6	1361.8	1476.9	1590.0	1752.8	2906.6	4016.9	4307.7	4726.9	5120.2
-7.5°	983.8	1195.9	1395.0	1513.0	1628.0	1792.5	2868.7	4065.1	4483.4	4836.4	5189.9
-10°	991.7	1210.7	1415.2	1546.5	1666.3	1831.6	2787.0	4044.9	4647.5	4946.0	5256.8
-12.5°	1000.7	1219.0	1428.2	1575.8	1699.7	1862.5	2642.7	3948.3	4799.5	5064.3	5322.3
-15°	1004.4	1221.8	1435.1	1600.4	1727.8	1884.5	2433.3	3769.4	4901.1	5128.7	5364.2
-17.5°	1002.7	1219.2	1435.7	1620.1	1750.3	1897.2	2156.8	3438.1	4741.6	5153.9	5403.1
-20°	995.4	1211.1	1430.0	1634.7	1767.3	1913.0	2112.2	3057.3	4305.8	5135.0	5431.1



REPORT NUMBER: P731621 (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°	982.4	1197.7	1416.7	1626.5	1786.2	1933.1	2114.3	2662.3	3791.7	5071.0	5433.2
-25°	965.5	1178.7	1396.1	1617.8	1802.9	1946.7	2107.9	2317.4	3282.6	4517.9	5378.9
-27.5°	945.2	1153.1	1376.0	1601.1	1816.2	1955.6	2109.5	2301.0	2833.6	3878.9	5172.1
-30°	919.6	1124.5	1347.8	1575.1	1797.5	1965.0	2109.9	2263.1	2459.7	3302.4	4417.1
-32.5°	890.6	1089.6	1310.6	1536.7	1762.8	1971.3	2097.7	2236.4	2405.5	2708.2	3660.4
-35°	861.4	1053.8	1265.1	1489.3	1718.8	1933.7	2087.3	2211.5	2350.0	2534.2	2968.9
-37.5°	833.0	1012.0	1211.8	1432.4	1657.6	1866.1	2068.0	2190.7	2317.7	2447.2	2628.1
-40°	799.5	964.2	1157.5	1366.2	1578.0	1785.9	1986.3	2169.6	2286.3	2398.5	2515.7
-42.5°	761.3	921.5	1098.9	1289.7	1489.6	1691.6	1895.1	2087.8	2251.6	2352.0	2458.9
-45°	720.0	873.5	1036.0	1211.8	1393.4	1588.6	1784.7	1981.2	2156.3	2312.8	2408.4
-47.5°	673.5	820.4	975.9	1127.9	1297.1	1476.7	1665.7	1850.5	2030.8	2197.3	2359.8
-50°	625.3	762.8	906.1	1048.1	1199.2	1363.3	1537.0	1712.1	1885.1	2054.5	2214.4
-52.5°	582.2	699.6	832.0	966.8	1104.3	1250.5	1404.9	1563.3	1729.2	1893.8	2042.5
-55°	535.6	642.7	753.1	880.3	1010.7	1142.4	1271.4	1414.2	1562.2	1717.4	1856.2
-57.5°	498.0	583.8	680.7	788.5	910.8	1034.5	1148.2	1263.1	1394.8	1532.4	1653.0
-60°	464.8	532.4	611.2	704.8	805.3	916.9	1023.9	1130.1	1236.4	1341.4	1455.4
-62.5°	432.5	491.3	553.1	624.0	712.8	798.7	892.9	991.0	1089.0	1183.2	1274.3
-65°	412.9	454.0	506.6	564.5	622.4	697.2	773.5	848.8	935.4	1020.5	1103.9
-67.5°	391.8	430.6	469.8	512.5	565.7	614.7	663.5	731.7	799.1	863.0	928.5
-70°	372.1	406.5	442.9	479.9	515.7	552.1	596.6	640.9	684.3	731.2	787.6
-72.5°	351.9	383.7	416.3	449.6	481.8	511.9	542.2	572.4	607.8	646.0	683.2
-75°	330.1	359.9	389.8	420.2	448.1	474.8	501.9	529.3	556.1	582.8	609.6
-77.5°	306.9	333.9	361.4	389.4	414.1	437.6	461.4	485.4	509.0	532.3	555.4
-80°	282.9	307.2	331.6	356.4	377.8	398.6	419.5	440.5	461.2	481.7	502.0
-82.5°	257.9	279.1	300.5	322.3	340.5	358.4	376.1	394.0	411.5	429.0	446.4
-85°	233.5	250.4	268.7	287.1	302.5	317.7	332.8	347.8	362.5	377.0	391.4
-87.5°	214.2	229.6	244.9	260.2	272.2	284.2	296.1	308.0	319.1	330.3	341.5
-90°	5.9	5.5	5.1	4.7	4.7	4.7	4.7	4.7	4.3	3.9	3.5



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	311.6	317.5	323.4	329.3	335.2	340.3	345.4	350.5	355.6	358.8	361.9
87.5°	3.1	3.0	3.0	3.0	3.0	2.6	2.3	2.0	1.6	1.6	1.6
85°	3.1	3.1	3.1	3.1	3.1	2.7	2.4	2.0	1.6	1.6	1.6
82.5°	3.8	3.8	3.6	3.4	3.1	3.0	3.0	2.9	2.9	3.0	3.0
80°	4.7	4.4	4.0	3.6	3.2	3.1	3.1	3.1	3.1	3.1	3.1
77.5°	4.8	4.4	4.0	3.6	3.2	3.1	3.1	3.1	3.1	3.1	3.1
75°	4.9	4.7	4.9	4.9	4.7	4.7	4.7	4.6	4.4	4.2	3.9
72.5°	9.3	9.7	9.6	9.9	9.9	10.2	10.6	10.8	10.8	10.9	11.0
70°	17.7	18.3	18.7	18.5	17.4	16.5	16.1	15.6	15.1	15.5	16.4
67.5°	26.9	25.0	24.1	22.7	20.3	18.1	16.9	15.5	14.1	13.4	13.2
65°	33.4	26.3	22.9	20.3	18.3	15.9	13.7	11.8	10.1	9.1	8.7
62.5°	31.7	22.6	17.9	15.1	12.6	10.4	8.6	7.2	6.2	5.7	5.8
60°	27.1	17.8	12.5	10.1	7.5	5.0	4.6	4.4	4.0	3.7	4.0
57.5°	24.2	15.9	9.7	9.5	8.2	5.9	5.1	5.1	4.4	3.1	3.6
55°	27.0	22.8	15.8	16.2	15.8	13.4	11.4	13.6	13.1	10.3	11.3
52.5°	40.5	46.4	37.9	35.2	48.0	47.6	37.2	50.9	58.4	57.2	58.3
50°	95.4	107.7	120.7	110.6	135.7	150.8	147.5	165.2	183.4	183.0	188.7
47.5°	225.9	260.0	263.7	270.5	299.3	335.8	365.5	386.4	397.1	392.7	395.8
45°	404.2	411.9	429.6	468.7	517.6	576.4	621.3	647.4	735.2	797.5	833.9
42.5°	535.8	559.8	603.0	706.2	781.8	955.6	1165.8	1247.3	1350.6	1403.0	1406.3
40°	667.7	728.7	907.5	1095.4	1503.5	1807.0	1825.1	1953.8	2013.0	1947.7	1938.0
37.5°	885.7	1112.1	1419.2	1853.6	2043.4	2125.9	2171.2	2187.6	2199.5	2188.6	2183.1
35°	1315.2	1709.0	2010.5	2152.1	2237.9	2240.6	2251.1	2249.7	2235.6	2228.3	2212.7
32.5°	1948.7	2324.2	2333.4	2322.4	2340.4	2330.2	2310.5	2301.4	2270.9	2252.6	2258.8
30°	2601.9	2604.0	2566.9	2480.8	2437.8	2424.6	2396.1	2372.7	2343.8	2348.1	2448.6
27.5°	2861.0	2829.3	2777.5	2703.2	2558.9	2530.6	2507.7	2497.9	2618.7	2729.0	2827.4
25°	3151.1	3068.8	3040.3	2975.5	2827.1	2662.9	2735.1	2848.7	3006.6	3171.1	3329.7
22.5°	3401.8	3342.4	3324.1	3300.0	3057.8	2987.1	3086.2	3273.0	3488.7	3774.4	4590.2
20°	3649.0	3584.8	3563.8	3442.9	3316.0	3333.5	3517.6	3843.4	4446.7	6614.3	9261.5
17.5°	3856.7	3790.3	3718.5	3577.5	3537.1	3713.8	4082.1	5226.6	8074.1	15189.2	22420.8
15°	4050.3	3963.1	3841.0	3748.4	3825.0	4153.9	5066.2	8965.8	18189.2	30131.9	45189.6
12.5°	4222.4	4088.8	3917.9	3869.9	4102.7	4656.7	8234.7	17593.3	31701.9	48715.8	84065.8
10°	4342.0	4168.9	4019.9	4102.7	4472.7	5960.0	11850.0	26376.4	47248.7	85302.6	129312.2
7.5°	4393.5	4236.8	4150.1	4327.9	4821.9	7654.1	17838.8	36478.6	66733.4	117902.8	188121.2
5°	4451.8	4343.6	4295.3	4550.9	5158.3	9034.3	22145.8	44980.1	87569.9	148521.2	238944.8
2.5°	4569.6	4466.6	4433.0	4746.6	5452.5	10321.1	25511.5	51589.5	101374.5	174070.5	284046.3
0°	4777.6	4563.6	4536.9	4843.7	5570.8	10907.0	27720.0	55575.3	107940.4	185002.4	306237.1
-2.5°	4942.8	4687.8	4636.9	4910.6	5622.9	10620.0	27496.0	55438.0	105261.7	181348.7	292144.9
-5°	5086.9	4831.1	4760.8	5015.0	5737.2	10609.3	26039.3	50867.5	94189.9	159354.2	246207.8
-7.5°	5215.1	4993.9	4889.8	5092.2	5752.3	9500.9	21061.5	41879.9	75288.4	124414.9	190562.1
-10°	5350.3	5180.4	5038.6	5174.0	5688.4	7559.5	14090.0	30188.7	53617.3	90224.2	135613.5
-12.5°	5504.8	5419.2	5210.7	5230.4	5601.9	6379.1	10413.9	21076.2	37224.5	56835.4	89736.4
-15°	5635.9	5632.0	5457.5	5402.0	5586.6	6085.0	7265.5	11704.2	22580.2	36535.0	52810.5
-17.5°	5663.2	5802.7	5735.9	5566.3	5577.1	5856.6	6343.2	7756.2	11342.2	20102.4	29786.2
-20°	5680.8	5978.8	5985.7	5848.1	5727.4	5696.2	5918.7	6330.8	7132.1	10092.4	13989.0



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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°	5707.7	5990.9	6192.4	6154.3	5917.4	5778.8	5729.0	5885.1	6156.3	6538.3	7802.6
-25°	5720.5	5984.8	6273.2	6352.3	6252.9	5999.3	5809.6	5703.7	5799.7	5920.9	6168.2
-27.5°	5666.0	5975.4	6254.9	6489.3	6517.8	6352.0	6073.2	5847.0	5759.0	5675.8	5777.6
-30°	5575.4	5920.9	6213.3	6501.6	6616.9	6563.8	6417.8	6234.2	6020.0	5853.3	5794.8
-32.5°	4833.1	5839.5	6138.9	6388.7	6578.9	6633.3	6634.8	6536.5	6444.9	6316.4	6165.9
-35°	3981.9	5098.2	6072.5	6198.3	6372.7	6552.7	6686.5	6691.1	6680.4	6619.4	6556.0
-37.5°	3095.3	4135.6	5072.6	5822.7	6086.5	6298.4	6527.5	6682.3	6779.5	6762.0	6750.2
-40°	2694.8	3022.7	3899.3	4663.9	5305.4	5909.0	6157.1	6435.2	6658.8	6736.7	6789.2
-42.5°	2571.1	2711.4	2854.1	3433.5	4094.4	4675.6	5222.3	5743.6	6209.1	6472.7	6656.3
-45°	2503.4	2581.4	2668.7	2797.7	2909.3	3390.7	3880.5	4356.2	4936.9	5471.5	5935.0
-47.5°	2440.6	2501.6	2569.2	2635.6	2697.5	2785.0	2860.7	2995.8	3430.7	3869.3	4309.4
-50°	2339.5	2440.3	2496.4	2546.0	2589.8	2630.4	2665.4	2726.4	2798.6	2861.6	2925.2
-52.5°	2170.6	2284.1	2391.9	2473.6	2508.0	2541.7	2576.2	2622.4	2665.1	2704.2	2734.2
-55°	1981.1	2096.1	2204.8	2287.6	2361.9	2430.2	2491.2	2532.2	2572.1	2610.5	2639.8
-57.5°	1772.8	1890.0	1996.3	2075.7	2150.0	2218.9	2286.0	2350.5	2409.5	2462.6	2507.9
-60°	1561.9	1660.8	1756.8	1840.8	1917.4	1986.5	2052.8	2116.2	2174.2	2226.4	2271.8
-62.5°	1363.8	1455.4	1531.4	1600.0	1666.0	1729.7	1796.8	1858.6	1914.8	1966.0	2013.1
-65°	1185.2	1264.2	1321.7	1375.4	1426.2	1480.9	1540.0	1594.4	1644.0	1690.1	1732.6
-67.5°	1001.5	1069.9	1120.4	1166.9	1210.3	1253.9	1301.1	1345.0	1385.6	1424.3	1460.6
-70°	842.0	889.7	924.9	960.6	999.1	1038.4	1079.1	1116.1	1149.4	1181.1	1210.3
-72.5°	719.4	748.7	773.4	803.9	831.4	860.7	890.9	918.8	944.4	969.2	992.5
-75°	636.4	657.9	678.1	697.0	714.6	735.5	757.3	777.8	797.1	815.3	832.4
-77.5°	578.7	595.4	609.2	622.4	634.9	651.1	668.1	684.7	700.8	714.5	727.2
-80°	522.2	535.7	547.5	558.9	569.9	583.9	598.2	612.1	625.6	638.0	649.9
-82.5°	463.7	474.7	484.8	494.5	503.9	515.8	527.6	539.0	550.1	560.3	570.2
-85°	405.6	414.0	421.9	429.5	436.9	446.6	456.2	465.6	474.8	481.4	487.8
-87.5°	352.7	358.9	364.9	370.7	376.5	383.5	390.5	397.4	404.2	408.7	413.0
-90°	3.1	2.7	2.4	2.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6



REPORT NUMBER: P731621 (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°	365.1	368.2	367.5	366.7	367.5	368.2	365.1	361.9	358.8	355.6	350.5
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°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.0	3.0	2.9	2.9
80°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
75°	3.5	3.1	3.1	3.1	3.1	3.1	3.5	3.9	4.2	4.4	4.6
72.5°	11.0	10.8	10.9	11.0	10.9	10.8	11.0	11.0	10.9	10.8	10.8
70°	17.5	18.6	18.8	18.9	18.8	18.6	17.5	16.4	15.5	15.1	15.6
67.5°	13.0	12.8	11.9	11.0	11.9	12.8	13.0	13.2	13.4	14.1	15.5
65°	8.3	8.1	7.9	7.9	7.9	8.1	8.3	8.7	9.1	10.1	11.8
62.5°	6.0	6.3	6.3	6.3	6.3	6.3	6.0	5.8	5.7	6.2	7.2
60°	4.3	4.7	4.7	4.7	4.7	4.7	4.3	4.0	3.7	4.0	4.4
57.5°	4.1	4.6	4.7	4.7	4.7	4.6	4.1	3.6	3.1	4.4	5.1
55°	12.0	12.3	11.9	11.0	11.9	12.3	12.0	11.3	10.3	13.1	13.6
52.5°	57.3	52.9	46.1	37.8	46.1	52.9	57.3	58.3	57.2	58.4	50.9
50°	199.7	205.0	200.3	185.7	200.3	205.0	199.7	188.7	183.0	183.4	165.2
47.5°	411.3	415.8	401.5	368.2	401.5	415.8	411.3	395.8	392.7	397.1	386.4
45°	861.1	854.5	780.4	626.3	780.4	854.5	861.1	833.9	797.5	735.2	647.4
42.5°	1485.1	1551.2	1590.2	1591.0	1590.2	1551.2	1485.1	1406.3	1403.0	1350.6	1247.3
40°	1922.2	1844.6	1759.9	1746.8	1759.9	1844.6	1922.2	1938.0	1947.7	2013.0	1953.8
37.5°	2169.8	2186.1	2176.7	1993.8	2176.7	2186.1	2169.8	2183.1	2188.6	2199.5	2187.6
35°	2248.7	2371.6	2498.2	2524.1	2498.2	2371.6	2248.7	2212.7	2228.3	2235.6	2249.7
32.5°	2286.8	2328.9	2340.4	2344.8	2340.4	2328.9	2286.8	2258.8	2252.6	2270.9	2301.4
30°	2494.9	2522.4	2518.4	2513.1	2518.4	2522.4	2494.9	2448.6	2348.1	2343.8	2372.7
27.5°	2873.9	2919.4	2939.8	2953.8	2939.8	2919.4	2873.9	2827.4	2729.0	2618.7	2497.9
25°	3416.4	3486.1	3533.9	3554.9	3533.9	3486.1	3416.4	3329.7	3171.1	3006.6	2848.7
22.5°	5532.3	6015.1	6492.9	6740.0	6492.9	6015.1	5532.3	4590.2	3774.4	3488.7	3273.0
20°	13811.0	15897.0	16849.6	17127.7	16849.6	15897.0	13811.0	9261.5	6614.3	4446.7	3843.4
17.5°	32163.0	40070.0	45358.6	40724.7	45358.6	40070.0	32163.0	22420.8	15189.2	8074.1	5226.6
15°	65830.3	85855.9	97061.6	90756.0	97061.6	85855.9	65830.3	45189.6	30131.9	18189.2	8965.8
12.5°	118607.3	149860.2	170850.9	163928.9	170850.9	149860.2	118607.3	84065.8	48715.8	31701.9	17593.3
10°	186685.2	249530.1	291376.0	301720.7	291376.0	249530.1	186685.2	129312.2	85302.6	47248.7	26376.4
7.5°	270916.0	348726.5	410146.2	419652.3	410146.2	348726.5	270916.0	188121.2	117902.8	66733.4	36478.6
5°	353318.5	445163.8	509069.7	525660.2	509069.7	445163.8	353318.5	238944.8	148521.2	87569.9	44980.1
2.5°	404463.5	504429.7	581407.7	615314.7	581407.7	504429.7	404463.5	284046.3	174070.5	101374.5	51589.5
0°	422718.6	527120.6	610641.7	659279.6	610641.7	527120.6	422718.6	306237.1	185002.4	107940.4	55575.3
-2.5°	408565.1	503110.9	573617.6	607429.1	573617.6	503110.9	408565.1	292144.9	181348.7	105261.7	55438.0
-5°	347982.1	441920.1	499285.7	526827.9	499285.7	441920.1	347982.1	246207.8	159354.2	94189.9	50867.5
-7.5°	271917.0	347103.0	396639.4	421696.4	396639.4	347103.0	271917.0	190562.1	124414.9	75288.4	41879.9
-10°	190260.3	249910.5	283302.0	303747.6	283302.0	249910.5	190260.3	135613.5	90224.2	53617.3	30188.7
-12.5°	123792.7	158512.7	177214.1	190313.5	177214.1	158512.7	123792.7	89736.4	56835.4	37224.5	21076.2
-15°	75149.6	92070.6	102224.0	108588.7	102224.0	92070.6	75149.6	52810.5	36535.0	22580.2	11704.2
-17.5°	41944.0	49211.8	54358.0	57205.6	54358.0	49211.8	41944.0	29786.2	20102.4	11342.2	7756.2
-20°	20812.7	25410.4	28430.3	29698.1	28430.3	25410.4	20812.7	13989.0	10092.4	7132.1	6330.8



REPORT NUMBER: P731621 (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°	9605.2	10833.4	11646.4	12033.8	11646.4	10833.4	9605.2	7802.6	6538.3	6156.3	5885.1
-25°	6408.6	6601.3	6742.9	6804.5	6742.9	6601.3	6408.6	6168.2	5920.9	5799.7	5703.7
-27.5°	5869.8	5971.9	6056.6	6090.1	6056.6	5971.9	5869.8	5777.6	5675.8	5759.0	5847.0
-30°	5749.9	5754.4	5778.3	5778.5	5778.3	5754.4	5749.9	5794.8	5853.3	6020.0	6234.2
-32.5°	6052.1	5985.7	5956.8	5987.8	5956.8	5985.7	6052.1	6165.9	6316.4	6444.9	6536.5
-35°	6513.7	6495.8	6497.3	6530.7	6497.3	6495.8	6513.7	6556.0	6619.4	6680.4	6691.1
-37.5°	6753.2	6767.3	6783.2	6787.2	6783.2	6767.3	6753.2	6750.2	6762.0	6779.5	6682.3
-40°	6819.7	6847.2	6868.0	6875.3	6868.0	6847.2	6819.7	6789.2	6736.7	6658.8	6435.2
-42.5°	6737.4	6792.2	6821.2	6828.1	6821.2	6792.2	6737.4	6656.3	6472.7	6209.1	5743.6
-45°	6271.6	6515.8	6653.9	6691.2	6653.9	6515.8	6271.6	5935.0	5471.5	4936.9	4356.2
-47.5°	4737.4	5120.8	5387.6	5511.0	5387.6	5120.8	4737.4	4309.4	3869.3	3430.7	2995.8
-50°	2991.9	3055.1	3102.3	3131.6	3102.3	3055.1	2991.9	2925.2	2861.6	2798.6	2726.4
-52.5°	2760.3	2783.5	2797.0	2802.7	2797.0	2783.5	2760.3	2734.2	2704.2	2665.1	2622.4
-55°	2664.9	2686.3	2695.8	2697.3	2695.8	2686.3	2664.9	2639.8	2610.5	2572.1	2532.2
-57.5°	2547.0	2579.7	2594.2	2596.5	2594.2	2579.7	2547.0	2507.9	2462.6	2409.5	2350.5
-60°	2310.3	2342.0	2357.6	2363.6	2357.6	2342.0	2310.3	2271.8	2226.4	2174.2	2116.2
-62.5°	2053.9	2088.4	2098.9	2097.7	2098.9	2088.4	2053.9	2013.1	1966.0	1914.8	1858.6
-65°	1769.7	1801.3	1810.3	1809.7	1810.3	1801.3	1769.7	1732.6	1690.1	1644.0	1594.4
-67.5°	1492.8	1520.7	1530.3	1532.7	1530.3	1520.7	1492.8	1460.6	1424.3	1385.6	1345.0
-70°	1236.0	1258.0	1263.5	1263.6	1263.5	1258.0	1236.0	1210.3	1181.1	1149.4	1116.1
-72.5°	1013.7	1032.7	1035.9	1035.5	1035.9	1032.7	1013.7	992.5	969.2	944.4	918.8
-75°	848.6	863.6	864.2	862.4	864.2	863.6	848.6	832.4	815.3	797.1	777.8
-77.5°	739.1	750.2	752.6	753.8	752.6	750.2	739.1	727.2	714.5	700.8	684.7
-80°	661.2	671.9	671.7	670.4	671.7	671.9	661.2	649.9	638.0	625.6	612.1
-82.5°	579.8	588.9	589.0	588.5	589.0	588.9	579.8	570.2	560.3	550.1	539.0
-85°	493.9	499.8	499.5	498.8	499.5	499.8	493.9	487.8	481.4	474.8	465.6
-87.5°	417.3	421.5	421.6	421.7	421.6	421.5	417.3	413.0	408.7	404.2	397.4
-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°	345.4	340.3	335.2	329.3	323.4	317.5	311.6	303.0	294.3	285.7	277.0
87.5°	2.3	2.6	3.0	3.0	3.0	3.0	3.1	3.5	3.9	4.3	4.7
85°	2.4	2.7	3.1	3.1	3.1	3.1	3.1	3.5	3.9	4.3	4.7
82.5°	3.0	3.0	3.1	3.4	3.6	3.8	3.8	4.0	4.2	4.4	4.7
80°	3.1	3.1	3.2	3.6	4.0	4.4	4.7	4.8	4.8	4.7	4.8
77.5°	3.1	3.1	3.2	3.6	4.0	4.4	4.8	5.2	5.4	5.6	5.6
75°	4.7	4.7	4.7	4.9	4.9	4.7	4.9	5.3	5.7	6.1	6.3
72.5°	10.6	10.2	9.9	9.9	9.6	9.7	9.3	8.6	7.8	6.9	6.5
70°	16.1	16.5	17.4	18.5	18.7	18.3	17.7	16.1	13.4	11.5	10.4
67.5°	16.9	18.1	20.3	22.7	24.1	25.0	26.9	27.9	26.7	23.8	18.3
65°	13.7	15.9	18.3	20.3	22.9	26.3	33.4	37.2	38.2	37.0	30.8
62.5°	8.6	10.4	12.6	15.1	17.9	22.6	31.7	39.3	45.6	47.6	40.9
60°	4.6	5.0	7.5	10.1	12.5	17.8	27.1	37.1	47.7	49.0	46.8
57.5°	5.1	5.9	8.2	9.5	9.7	15.9	24.2	32.2	42.0	47.7	47.9
55°	11.4	13.4	15.8	16.2	15.8	22.8	27.0	31.8	40.8	46.5	50.1
52.5°	37.2	47.6	48.0	35.2	37.9	46.4	40.5	43.4	51.1	58.4	59.0
50°	147.5	150.8	135.7	110.6	120.7	107.7	95.4	79.9	90.8	93.1	80.5
47.5°	365.5	335.8	299.3	270.5	263.7	260.0	225.9	184.0	196.2	157.8	139.0
45°	621.3	576.4	517.6	468.7	429.6	411.9	404.2	377.9	352.9	318.7	223.6
42.5°	1165.8	955.6	781.8	706.2	603.0	559.8	535.8	531.7	519.9	498.1	425.9
40°	1825.1	1807.0	1503.5	1095.4	907.5	728.7	667.7	641.5	641.3	637.4	598.0
37.5°	2171.2	2125.9	2043.4	1853.6	1419.2	1112.1	885.7	762.4	731.4	729.9	702.5
35°	2251.1	2240.6	2237.9	2152.1	2010.5	1709.0	1315.2	990.9	840.4	806.1	791.2
32.5°	2310.5	2330.2	2340.4	2322.4	2333.4	2324.2	1948.7	1445.6	1003.9	902.2	865.9
30°	2396.1	2424.6	2437.8	2480.8	2566.9	2604.0	2601.9	2012.4	1400.4	1003.8	946.9
27.5°	2507.7	2530.6	2558.9	2703.2	2777.5	2829.3	2861.0	2690.4	1840.0	1283.6	1041.5
25°	2735.1	2662.9	2827.1	2975.5	3040.3	3068.8	3151.1	3074.4	2493.9	1612.3	1139.8
22.5°	3086.2	2987.1	3057.8	3300.0	3324.1	3342.4	3401.8	3420.1	3147.2	2087.4	1426.4
20°	3517.6	3333.5	3316.0	3442.9	3563.8	3584.8	3649.0	3678.7	3426.0	2667.9	1751.1
17.5°	4082.1	3713.8	3537.1	3577.5	3718.5	3790.3	3856.7	3877.1	3701.1	3190.6	2077.6
15°	5066.2	4153.9	3825.0	3748.4	3841.0	3963.1	4050.3	4115.1	3948.0	3529.6	2511.9
12.5°	8234.7	4656.7	4102.7	3869.9	3917.9	4088.8	4222.4	4302.4	4142.4	3756.6	2941.2
10°	11850.0	5960.0	4472.7	4102.7	4019.9	4168.9	4342.0	4395.9	4273.9	3943.9	3303.6
7.5°	17838.8	7654.1	4821.9	4327.9	4150.1	4236.8	4393.5	4460.5	4385.4	4091.7	3602.6
5°	22145.8	9034.3	5158.3	4550.9	4295.3	4343.6	4451.8	4527.1	4478.2	4206.3	3841.9
2.5°	25511.5	10321.1	5452.5	4746.6	4433.0	4466.6	4569.6	4596.4	4519.1	4220.9	3938.9
0°	27720.0	10907.0	5570.8	4843.7	4536.9	4563.6	4777.6	4669.0	4530.6	4203.2	3989.2
-2.5°	27496.0	10620.0	5622.9	4910.6	4636.9	4687.8	4942.8	4948.2	4634.7	4247.5	4028.1
-5°	26039.3	10609.3	5737.2	5015.0	4760.8	4831.1	5086.9	5120.2	4726.9	4307.7	4016.9
-7.5°	21061.5	9500.9	5752.3	5092.2	4889.8	4993.9	5215.1	5189.9	4836.4	4483.4	4065.1
-10°	14090.0	7559.5	5688.4	5174.0	5038.6	5180.4	5350.3	5256.8	4946.0	4647.5	4044.9
-12.5°	10413.9	6379.1	5601.9	5230.4	5210.7	5419.2	5504.8	5322.3	5064.3	4799.5	3948.3
-15°	7265.5	6085.0	5586.6	5402.0	5457.5	5632.0	5635.9	5364.2	5128.7	4901.1	3769.4
-17.5°	6343.2	5856.6	5577.1	5566.3	5735.9	5802.7	5663.2	5403.1	5153.9	4741.6	3438.1
-20°	5918.7	5696.2	5727.4	5848.1	5985.7	5978.8	5680.8	5431.1	5135.0	4305.8	3057.3



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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°	5729.0	5778.8	5917.4	6154.3	6192.4	5990.9	5707.7	5433.2	5071.0	3791.7	2662.3
-25°	5809.6	5999.3	6252.9	6352.3	6273.2	5984.8	5720.5	5378.9	4517.9	3282.6	2317.4
-27.5°	6073.2	6352.0	6517.8	6489.3	6254.9	5975.4	5666.0	5172.1	3878.9	2833.6	2301.0
-30°	6417.8	6563.8	6616.9	6501.6	6213.3	5920.9	5575.4	4417.1	3302.4	2459.7	2263.1
-32.5°	6634.8	6633.3	6578.9	6388.7	6138.9	5839.5	4833.1	3660.4	2708.2	2405.5	2236.4
-35°	6686.5	6552.7	6372.7	6198.3	6072.5	5098.2	3981.9	2968.9	2534.2	2350.0	2211.5
-37.5°	6527.5	6298.4	6086.5	5822.7	5072.6	4135.6	3095.3	2628.1	2447.2	2317.7	2190.7
-40°	6157.1	5909.0	5305.4	4663.9	3899.3	3022.7	2694.8	2515.7	2398.5	2286.3	2169.6
-42.5°	5222.3	4675.6	4094.4	3433.5	2854.1	2711.4	2571.1	2458.9	2352.0	2251.6	2087.8
-45°	3880.5	3390.7	2909.3	2797.7	2668.7	2581.4	2503.4	2408.4	2312.8	2156.3	1981.2
-47.5°	2860.7	2785.0	2697.5	2635.6	2569.2	2501.6	2440.6	2359.8	2197.3	2030.8	1850.5
-50°	2665.4	2630.4	2589.8	2546.0	2496.4	2440.3	2339.5	2214.4	2054.5	1885.1	1712.1
-52.5°	2576.2	2541.7	2508.0	2473.6	2391.9	2284.1	2170.6	2042.5	1893.8	1729.2	1563.3
-55°	2491.2	2430.2	2361.9	2287.6	2204.8	2096.1	1981.1	1856.2	1717.4	1562.2	1414.2
-57.5°	2286.0	2218.9	2150.0	2075.7	1996.3	1890.0	1772.8	1653.0	1532.4	1394.8	1263.1
-60°	2052.8	1986.5	1917.4	1840.8	1756.8	1660.8	1561.9	1455.4	1341.4	1236.4	1130.1
-62.5°	1796.8	1729.7	1666.0	1600.0	1531.4	1455.4	1363.8	1274.3	1183.2	1089.0	991.0
-65°	1540.0	1480.9	1426.2	1375.4	1321.7	1264.2	1185.2	1103.9	1020.5	935.4	848.8
-67.5°	1301.1	1253.9	1210.3	1166.9	1120.4	1069.9	1001.5	928.5	863.0	799.1	731.7
-70°	1079.1	1038.4	999.1	960.6	924.9	889.7	842.0	787.6	731.2	684.3	640.9
-72.5°	890.9	860.7	831.4	803.9	773.4	748.7	719.4	683.2	646.0	607.8	572.4
-75°	757.3	735.5	714.6	697.0	678.1	657.9	636.4	609.6	582.8	556.1	529.3
-77.5°	668.1	651.1	634.9	622.4	609.2	595.4	578.7	555.4	532.3	509.0	485.4
-80°	598.2	583.9	569.9	558.9	547.5	535.7	522.2	502.0	481.7	461.2	440.5
-82.5°	527.6	515.8	503.9	494.5	484.8	474.7	463.7	446.4	429.0	411.5	394.0
-85°	456.2	446.6	436.9	429.5	421.9	414.0	405.6	391.4	377.0	362.5	347.8
-87.5°	390.5	383.5	376.5	370.7	364.9	358.9	352.7	341.5	330.3	319.1	308.0
-90°	1.6	1.6	1.6	2.0	2.4	2.7	3.1	3.5	3.9	4.3	4.7





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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°	266.8	256.5	246.3	236.0	222.3	208.5	194.8	181.0	166.4	151.9	137.3
87.5°	4.7	4.7	4.7	4.7	5.1	5.5	5.9	6.3	6.3	6.3	6.3
85°	4.7	4.7	4.7	4.7	5.1	5.5	5.9	6.3	6.3	6.3	6.3
82.5°	4.7	4.7	4.7	4.7	5.1	5.5	5.9	6.3	6.4	6.3	6.3
80°	5.0	5.2	5.2	5.2	5.4	5.6	6.0	6.4	6.8	6.9	6.8
77.5°	5.6	5.7	6.0	6.2	6.3	6.4	6.5	6.6	7.1	7.5	7.5
75°	6.3	6.2	6.2	6.6	7.1	7.2	7.2	7.5	8.1	8.2	8.3
72.5°	6.7	6.8	6.6	6.9	7.7	8.2	8.2	8.5	9.4	9.7	9.3
70°	9.1	7.9	7.5	8.3	9.1	9.2	9.5	10.3	10.9	11.3	11.0
67.5°	13.3	11.8	10.3	10.4	11.2	11.6	11.1	12.4	13.4	13.0	12.7
65°	24.3	18.6	14.3	15.2	15.0	14.2	14.0	15.3	16.1	15.9	14.5
62.5°	34.3	27.7	23.3	21.7	20.4	19.1	17.3	19.3	19.4	19.0	17.3
60°	43.1	35.9	33.5	32.3	28.7	25.0	24.0	23.8	24.0	22.3	20.5
57.5°	45.6	42.9	45.7	44.4	40.2	34.0	32.2	31.4	28.8	26.8	24.0
55°	47.8	48.4	58.8	59.0	53.5	46.0	43.7	41.2	35.0	31.7	28.4
52.5°	55.4	63.0	73.7	75.9	69.9	61.6	60.2	52.0	45.6	36.9	34.3
50°	73.2	87.7	96.3	96.9	88.5	85.4	78.4	69.0	56.9	43.8	40.9
47.5°	123.7	135.9	128.3	123.7	113.6	113.3	104.2	88.0	68.8	54.9	47.9
45°	224.5	213.0	184.4	160.7	151.3	150.1	135.1	108.2	87.3	68.5	55.5
42.5°	347.4	322.7	279.3	202.8	203.6	193.4	169.2	138.3	106.8	82.8	66.2
40°	514.2	452.1	392.0	312.9	263.6	241.6	212.5	172.2	127.4	99.4	79.0
37.5°	666.5	589.4	522.7	421.8	337.8	302.3	260.0	208.2	154.0	120.2	92.1
35°	758.6	714.0	638.3	527.2	433.6	367.7	310.8	248.8	187.4	141.4	105.5
32.5°	837.8	811.2	734.1	628.0	523.7	437.7	369.2	291.1	220.2	163.0	119.1
30°	911.5	883.5	829.2	721.5	609.3	516.6	428.0	331.7	252.2	185.0	133.9
27.5°	988.7	956.1	918.6	808.7	691.7	590.5	477.8	370.3	283.4	208.9	151.9
25°	1068.1	1027.2	985.7	894.7	767.9	649.2	525.6	407.3	315.5	235.1	169.8
22.5°	1158.4	1095.6	1052.5	979.8	837.0	708.6	573.4	448.0	346.9	260.4	187.4
20°	1247.8	1161.6	1116.7	1048.5	905.6	767.9	622.5	486.4	376.5	284.6	204.7
17.5°	1367.8	1231.2	1167.7	1096.9	970.1	825.0	670.6	522.5	404.2	307.7	221.5
15°	1649.6	1306.2	1218.5	1143.8	1028.7	879.7	717.3	556.2	430.0	329.5	237.0
12.5°	1944.5	1380.5	1269.3	1188.8	1081.7	931.5	762.1	587.2	453.8	349.3	250.5
10°	2241.8	1453.3	1319.5	1231.7	1129.2	980.1	804.4	619.1	479.9	367.3	262.9
7.5°	2530.2	1523.2	1368.4	1272.3	1171.7	1022.2	844.3	656.3	505.3	384.1	274.2
5°	2777.1	1585.3	1417.5	1316.0	1211.0	1056.5	879.3	691.2	529.3	399.4	284.2
2.5°	2896.5	1634.7	1465.0	1358.2	1246.5	1086.0	909.3	723.3	551.4	413.1	293.0
0°	2964.8	1677.5	1509.1	1397.4	1277.8	1111.0	934.8	752.2	571.2	424.9	300.6
-2.5°	2959.8	1718.1	1551.3	1438.7	1322.5	1145.0	955.6	768.3	586.5	438.8	310.9
-5°	2906.6	1752.8	1590.0	1476.9	1361.8	1173.6	972.0	780.8	599.1	450.5	319.8
-7.5°	2868.7	1792.5	1628.0	1513.0	1395.0	1195.9	983.8	789.6	609.1	460.0	327.3
-10°	2787.0	1831.6	1666.3	1546.5	1415.2	1210.7	991.7	794.7	616.4	467.2	333.2
-12.5°	2642.7	1862.5	1699.7	1575.8	1428.2	1219.0	1000.7	800.1	621.3	471.8	337.5
-15°	2433.3	1884.5	1727.8	1600.4	1435.1	1221.8	1004.4	803.2	625.7	474.5	340.2
-17.5°	2156.8	1897.2	1750.3	1620.1	1435.7	1219.2	1002.7	801.9	627.0	475.4	342.2
-20°	2112.2	1913.0	1767.3	1634.7	1430.0	1211.1	995.4	796.2	625.1	473.7	343.2



REPORT NUMBER: P731621 (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°	2114.3	1933.1	1786.2	1626.5	1416.7	1197.7	982.4	785.9	619.9	469.5	342.2
-25°	2107.9	1946.7	1802.9	1617.8	1396.1	1178.7	965.5	771.1	611.5	462.7	339.4
-27.5°	2109.5	1955.6	1816.2	1601.1	1376.0	1153.1	945.2	758.6	600.4	453.3	334.6
-30°	2109.9	1965.0	1797.5	1575.1	1347.8	1124.5	919.6	742.5	587.3	444.5	327.8
-32.5°	2097.7	1971.3	1762.8	1536.7	1310.6	1089.6	890.6	722.6	571.2	435.1	324.1
-35°	2087.3	1933.7	1718.8	1489.3	1265.1	1053.8	861.4	698.9	552.1	423.3	320.6
-37.5°	2068.0	1866.1	1657.6	1432.4	1211.8	1012.0	833.0	674.4	530.0	409.0	315.7
-40°	1986.3	1785.9	1578.0	1366.2	1157.5	964.2	799.5	646.4	509.5	392.3	309.4
-42.5°	1895.1	1691.6	1489.6	1289.7	1098.9	921.5	761.3	613.9	487.4	380.3	301.8
-45°	1784.7	1588.6	1393.4	1211.8	1036.0	873.5	720.0	578.2	462.2	369.9	295.2
-47.5°	1665.7	1476.7	1297.1	1127.9	975.9	820.4	673.5	546.5	434.5	357.8	290.9
-50°	1537.0	1363.3	1199.2	1048.1	906.1	762.8	625.3	511.5	417.5	343.2	285.7
-52.5°	1404.9	1250.5	1104.3	966.8	832.0	699.6	582.2	475.1	398.5	332.7	279.5
-55°	1271.4	1142.4	1010.7	880.3	753.1	642.7	535.6	450.7	377.4	323.5	272.8
-57.5°	1148.2	1034.5	910.8	788.5	680.7	583.8	498.0	424.0	363.3	313.4	266.9
-60°	1023.9	916.9	805.3	704.8	611.2	532.4	464.8	399.8	350.5	302.9	259.8
-62.5°	892.9	798.7	712.8	624.0	553.1	491.3	432.5	384.1	336.8	293.3	251.8
-65°	773.5	697.2	622.4	564.5	506.6	454.0	412.9	367.4	324.1	283.0	243.1
-67.5°	663.5	614.7	565.7	512.5	469.8	430.6	391.8	351.5	311.1	271.8	233.7
-70°	596.6	552.1	515.7	479.9	442.9	406.5	372.1	335.4	297.2	259.6	223.6
-72.5°	542.2	511.9	481.8	449.6	416.3	383.7	351.9	318.2	281.8	246.7	212.9
-75°	501.9	474.8	448.1	420.2	389.8	359.9	330.1	299.2	265.5	233.0	201.6
-77.5°	461.4	437.6	414.1	389.4	361.4	333.9	306.9	279.4	248.5	218.6	189.8
-80°	419.5	398.6	377.8	356.4	331.6	307.2	282.9	258.4	230.6	203.6	177.5
-82.5°	376.1	358.4	340.5	322.3	300.5	279.1	257.9	236.7	212.0	188.1	166.0
-85°	332.8	317.7	302.5	287.1	268.7	250.4	233.5	216.3	196.0	176.1	156.7
-87.5°	296.1	284.2	272.2	260.2	244.9	229.6	214.2	198.8	181.4	164.1	147.1
-90°	4.7	4.7	4.7	4.7	5.1	5.5	5.9	6.3	6.3	6.3	6.3



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	122.7	102.2	81.8	61.3	40.9	25.1	9.4
87.5°	6.3	6.5	6.6	6.6	6.6	8.1	9.4
85°	6.3	6.6	6.8	6.9	6.9	8.4	9.4
82.5°	6.3	6.8	7.1	7.2	7.1	8.7	9.4
80°	6.5	7.0	7.4	7.5	7.5	9.0	9.4
77.5°	7.3	7.5	7.7	7.8	7.8	9.3	9.4
75°	8.3	8.6	8.2	8.2	8.1	9.6	9.4
72.5°	9.3	9.7	9.3	8.5	8.5	9.9	9.4
70°	10.5	10.9	10.5	9.0	8.9	10.2	9.4
67.5°	12.5	12.1	11.6	10.0	9.3	10.5	9.4
65°	14.7	13.9	12.8	11.1	9.7	10.8	9.4
62.5°	17.0	16.2	14.1	12.1	10.2	11.1	9.4
60°	19.5	18.6	15.3	13.2	10.7	11.4	9.4
57.5°	23.3	21.1	17.5	14.2	11.7	11.7	9.4
55°	27.5	23.7	19.8	15.3	12.8	12.1	9.4
52.5°	32.0	26.6	22.1	16.4	14.0	12.4	9.4
50°	36.7	30.7	24.4	17.5	15.1	12.7	9.4
47.5°	41.9	35.0	26.8	18.8	16.4	13.1	9.4
45°	48.5	39.4	29.2	20.6	17.6	13.4	9.4
42.5°	55.4	44.0	31.6	22.4	18.9	13.8	9.4
40°	62.6	48.6	34.7	24.8	20.2	14.1	9.4
37.5°	70.1	53.3	38.3	27.6	21.5	14.4	9.4
35°	77.8	58.9	41.9	30.5	22.9	14.8	9.4
32.5°	86.6	65.0	45.5	33.3	24.3	15.1	9.4
30°	97.6	71.2	49.1	36.3	25.7	15.5	9.4
27.5°	108.6	77.3	54.2	39.2	27.0	15.8	9.4
25°	119.5	83.4	59.4	42.2	28.4	16.1	9.4
22.5°	130.2	90.0	64.6	45.1	29.8	16.5	9.4
20°	140.7	97.4	69.7	48.1	31.2	16.8	9.4
17.5°	151.2	104.6	74.7	51.0	32.6	17.1	9.4
15°	161.4	111.6	79.6	53.9	33.9	17.4	9.4
12.5°	171.0	118.2	84.4	56.7	35.2	17.7	9.4
10°	180.0	124.6	89.0	59.4	36.5	17.9	9.4
7.5°	188.4	130.6	93.4	62.0	37.7	18.2	9.4
5°	196.0	136.2	97.7	64.6	38.8	18.5	9.4
2.5°	203.0	141.5	101.7	66.9	39.9	18.7	9.4
0°	209.3	146.4	105.4	69.2	40.9	18.9	9.4
-2.5°	216.7	152.5	110.1	72.8	43.1	19.8	9.4
-5°	223.4	158.1	114.6	76.3	45.3	20.7	9.4
-7.5°	229.3	163.4	118.7	79.6	47.3	21.6	9.4
-10°	234.4	168.1	122.5	82.7	49.2	22.4	9.4
-12.5°	238.6	172.5	126.1	85.6	51.0	23.2	9.4
-15°	242.1	176.3	129.3	88.2	52.7	24.0	9.4
-17.5°	244.7	179.7	132.3	90.7	54.2	24.8	9.4
-20°	246.9	182.5	134.9	92.8	55.6	25.5	9.4



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 CATALOG NUMBER: EPH-LS-08-0680N-40-80-1S-VHE

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	249.0	184.9	137.2	94.8	56.9	26.2	9.4
-25°	250.0	187.2	139.2	96.5	58.0	26.8	9.4
-27.5°	250.0	189.1	140.9	97.9	58.9	27.4	9.4
-30°	248.9	190.3	142.2	99.0	59.7	27.9	9.4
-32.5°	246.7	191.0	143.4	99.9	60.3	28.4	9.4
-35°	245.9	191.1	144.1	100.5	60.8	28.8	9.4
-37.5°	245.4	191.0	144.4	100.8	61.1	29.2	9.4
-40°	244.1	190.9	144.3	100.8	61.2	29.5	9.4
-42.5°	242.1	190.4	143.9	100.6	61.1	29.8	9.4
-45°	239.3	189.2	143.2	100.0	60.8	30.0	9.4
-47.5°	235.7	187.5	142.0	99.2	60.4	30.2	9.4
-50°	232.7	185.3	140.4	98.1	59.8	30.3	9.4
-52.5°	229.2	182.6	138.4	96.9	59.0	30.3	9.4
-55°	225.1	179.4	136.1	95.4	58.1	30.3	9.4
-57.5°	220.3	175.7	133.3	93.6	57.0	30.3	9.4
-60°	214.9	171.6	130.2	91.5	55.7	30.2	9.4
-62.5°	209.0	166.9	126.9	89.2	55.1	30.0	9.4
-65°	202.4	161.8	123.2	86.7	54.4	29.8	9.4
-67.5°	195.2	156.2	119.1	83.9	53.5	29.5	9.4
-70°	187.5	150.3	114.7	80.9	52.6	29.2	9.4
-72.5°	179.3	143.9	110.0	78.8	51.5	28.9	9.4
-75°	170.6	137.2	105.1	76.8	50.2	28.4	9.4
-77.5°	161.5	130.1	101.4	74.6	48.9	28.0	9.4
-80°	151.9	124.3	97.9	72.2	47.5	27.5	9.4
-82.5°	144.8	119.2	94.2	69.7	46.0	27.0	9.4
-85°	137.7	113.8	90.2	67.1	44.3	26.4	9.4
-87.5°	130.3	108.1	86.1	64.3	42.7	25.8	9.4
-90°	6.3	6.3	6.3	6.3	6.3	7.9	9.4

(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

