

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: P701502 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-40-80-5S-VHE-S**

Issue Date: 8/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701502 (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: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0640L-40-80-5S-VHE-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 5S BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

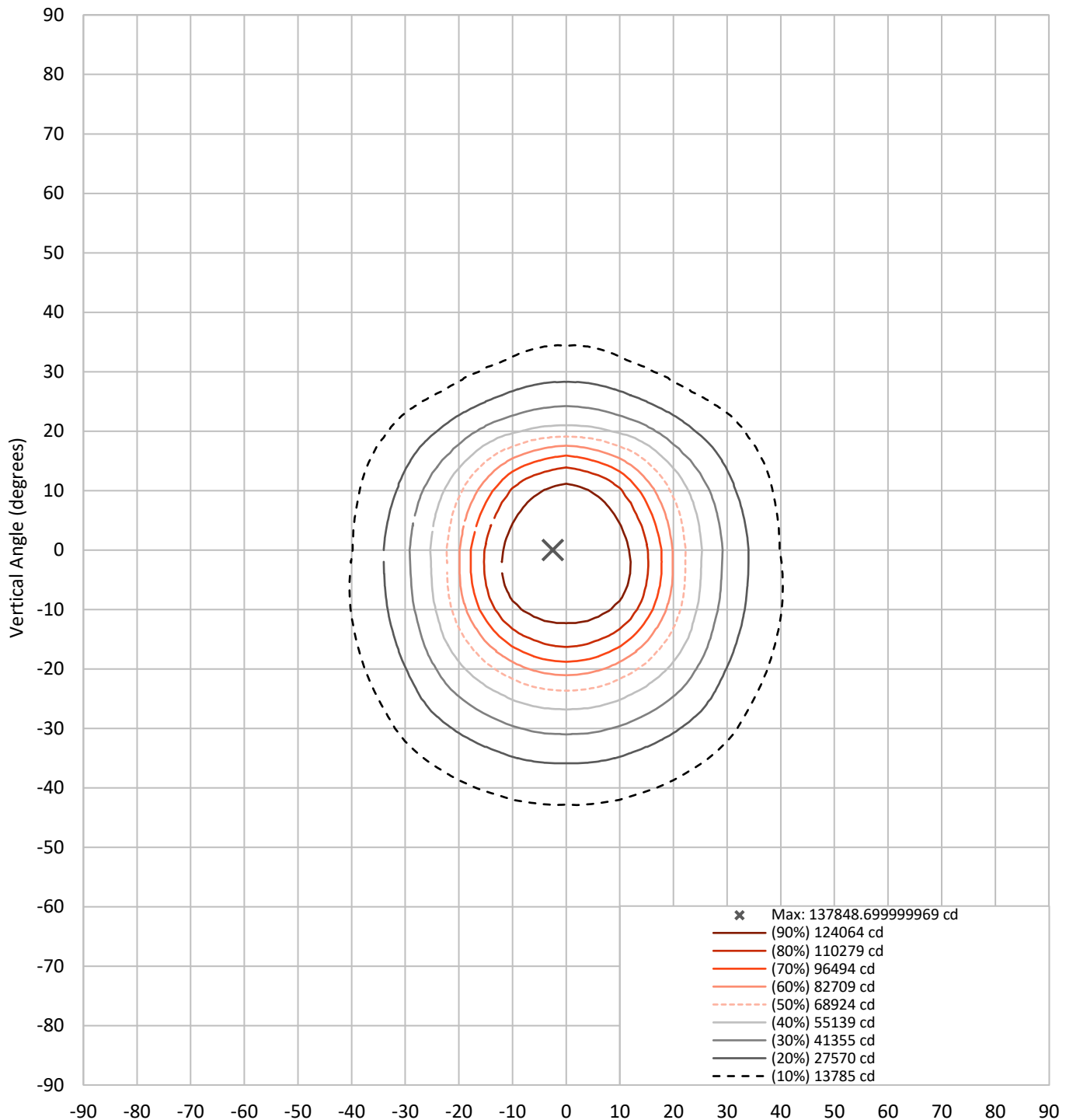
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	89758.2 lumens	Max Intensity:	137848.7 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	136.4 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:	49285.7 lumens	Field Lumens:	82476.8 lumens
Beam Efficiency:	54.9%	Field Efficiency:	91.9%

Input Watts (W): 658  
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





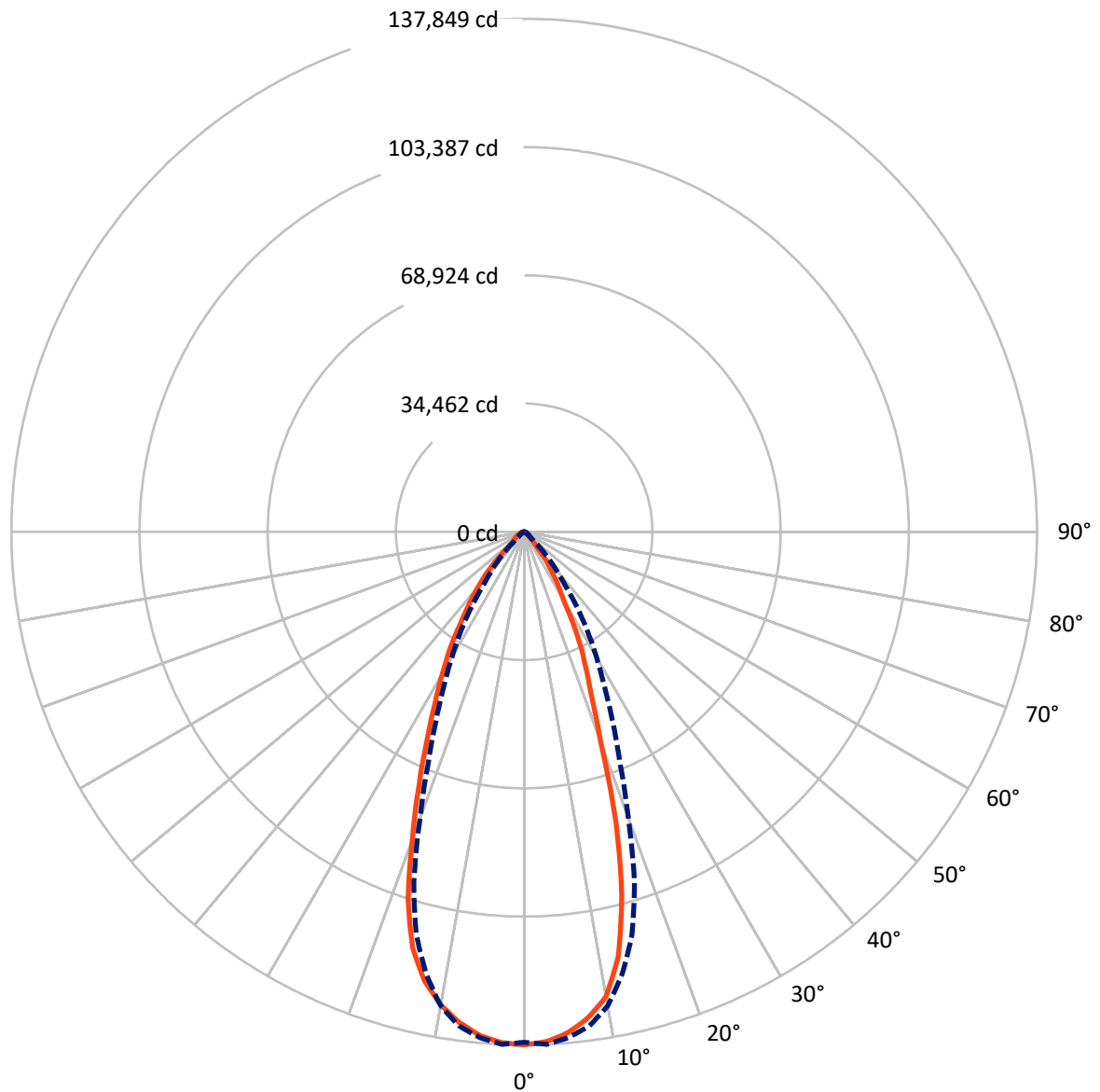
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### Lumen Table

90	0.4	1.3	2.3	3.0	3.5	3.0	2.3	1.3	0.4										
80	0.4	0.2	0.3	0.5	0.7	0.7	0.8	0.9	0.9	0.8	0.7	0.7	0.5	0.3	0.2	0.4			
70	0.4	0.5	0.8	1.3	1.3	1.0	1.2	1.3	1.3	1.2	1.0	1.3	1.3	0.8	0.5	0.4			
60	1.0	1.2	2.7	5.4	9.6	19.7	43.5	58.7	58.7	43.5	19.7	9.6	5.4	2.7	1.2	1.0			
50	1.0	2.7	8.9	18.2	46.1	137.0	253.8	373.9	373.9	253.8	137.0	46.1	18.2	8.9	2.7	1.0			
40	2.2	4.6	15.5	39.5	190.0	449.2	825.8	1133.7	1133.7	825.8	449.2	190.0	39.5	15.5	4.6	2.2			
30	2.2	6.4	20.7	89.4	415.0	1026.0	1996.2	2852.8	2852.8	1996.2	1026.0	415.0	89.4	20.7	6.4	2.2			
20	3.2	7.9	24.4	135.6	584.3	1489.8	2988.8	3964.8	3964.8	2988.8	1489.8	584.3	135.6	24.4	7.9	3.2			
10	3.2	8.8	27.2	144.5	629.5	1562.3	3170.8	4026.8	4026.8	3170.8	1562.3	629.5	144.5	27.2	8.8	3.2			
0	3.9	9.1	28.6	119.2	536.0	1305.6	2459.6	3321.0	3321.0	2459.6	1305.6	536.0	119.2	28.6	9.1	3.9			
-10	3.9	8.7	28.6	74.0	347.6	864.5	1437.5	1863.4	1863.4	1437.5	864.5	347.6	74.0	28.6	8.7	3.9			
-20	3.9	7.8	25.0	53.3	141.5	420.5	707.6	899.0	899.0	707.6	420.5	141.5	53.3	25.0	7.8	3.9			
-30	3.9	6.5	18.5	40.3	68.3	111.6	208.8	292.6	292.6	208.8	111.6	68.3	40.3	18.5	6.5	3.9			
-40	3.5	5.3	12.3	25.3	44.7	62.6	77.0	88.1	88.1	77.0	62.6	44.7	25.3	12.3	5.3	3.5			
-50	3.5	4.3	8.2	14.2	23.2	31.6	40.3	46.4	46.4	40.3	31.6	23.2	14.2	8.2	4.3	3.5			
-60	3.5	4.3	8.2	14.2	23.2	31.6	40.3	46.4	46.4	40.3	31.6	23.2	14.2	8.2	4.3	3.5			
-70	2.6	15.7	34.7	54.5	66.8	54.5	34.7	15.7	2.6							2.6			
-80	2.6	15.7	34.7	54.5	66.8	54.5	34.7	15.7	2.6							2.6			
-90	2.6	15.7	34.7	54.5	66.8	54.5	34.7	15.7	2.6							2.6			

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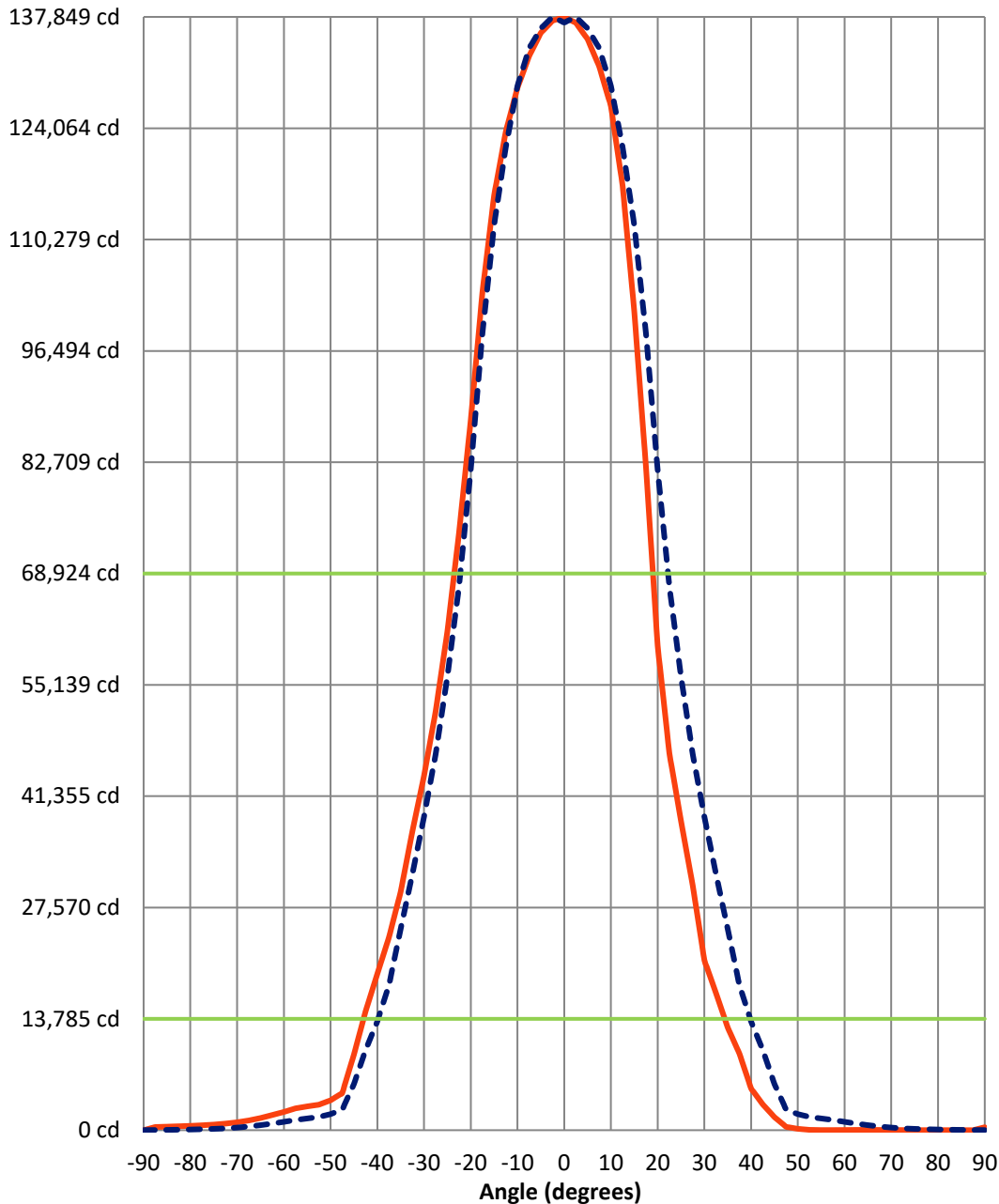
### Luminous Intensity Polar Plot



— 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: 49285.7  
 Efficiency: 54.9%

**Field:**  
 H Angle: 79.6°  
 V Angle: 77.3°  
 Lumens: 82476.8  
 Efficiency: 91.9%

**Spill:**  
 Lumens: 7281.4  
 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°	11.9	23.3	34.7	57.4	80.2	101.3	122.4	139.8	157.1	169.6	182.0
87.5°	11.9	11.0	10.0	10.1	10.1	10.2	10.3	9.8	9.4	9.3	9.1
85°	11.9	11.3	10.3	10.4	10.5	10.7	10.8	10.5	10.1	9.9	9.6
82.5°	11.9	11.5	10.6	10.8	10.9	11.1	11.4	11.2	10.9	10.5	10.0
80°	11.9	11.8	10.9	11.1	11.2	11.6	12.0	11.8	11.7	11.2	10.6
77.5°	11.9	12.0	11.2	11.5	11.6	12.1	12.6	12.5	12.4	11.9	11.1
75°	11.9	12.3	11.6	11.9	12.1	12.9	13.2	13.2	13.2	12.5	11.7
72.5°	11.9	12.5	11.9	12.2	12.9	13.6	13.8	13.9	13.7	13.0	12.3
70°	11.9	12.8	12.3	12.7	13.6	14.4	14.6	14.7	14.3	13.6	13.3
67.5°	11.9	13.0	12.6	13.3	14.4	15.2	15.5	15.6	15.0	14.8	14.5
65°	11.9	13.3	13.0	13.9	15.2	16.0	16.5	16.5	16.5	16.1	16.1
62.5°	11.9	13.6	13.4	14.6	16.0	16.9	17.5	17.9	18.1	17.8	18.7
60°	11.9	13.8	13.9	15.2	16.7	17.9	18.5	19.5	19.7	21.5	21.8
57.5°	11.9	14.1	14.6	15.8	17.8	18.8	20.5	21.4	24.3	26.0	27.7
55°	11.9	14.3	15.3	16.4	19.0	19.8	22.9	23.7	30.2	32.3	35.7
52.5°	11.9	14.6	16.1	17.1	20.3	21.0	25.5	29.8	36.7	42.0	44.6
50°	11.9	14.9	16.9	17.7	21.6	24.0	28.3	36.4	44.6	52.4	57.6
47.5°	11.9	15.2	17.8	18.4	23.1	27.2	31.8	43.2	54.7	63.4	72.2
45°	11.9	15.4	18.7	19.6	24.6	30.5	37.8	50.2	65.0	77.4	87.6
42.5°	11.9	15.7	19.7	20.8	26.3	34.0	43.8	58.6	75.7	92.1	110.9
40°	11.9	16.0	20.6	22.6	28.6	37.6	50.2	68.1	87.5	107.3	136.8
37.5°	11.9	16.2	21.7	24.8	31.4	41.3	57.1	77.8	101.3	125.5	164.1
35°	11.9	16.5	22.7	27.0	34.3	46.3	64.0	87.7	115.4	150.2	195.8
32.5°	11.9	16.7	23.8	29.3	37.2	51.9	71.5	98.0	129.9	175.4	231.7
30°	11.9	17.0	24.9	31.6	40.2	57.4	80.2	109.0	144.7	201.0	267.0
27.5°	11.9	17.3	26.1	33.9	44.1	62.8	88.7	121.0	161.3	226.9	301.6
25°	11.9	17.5	27.2	36.3	48.2	68.1	97.0	132.5	180.5	254.7	335.5
22.5°	11.9	17.7	28.4	38.7	52.1	73.6	105.1	143.5	198.6	278.6	371.3
20°	11.9	18.0	29.5	41.0	55.9	79.4	112.9	154.0	215.6	301.2	401.2
17.5°	11.9	18.2	30.7	43.4	59.7	85.1	120.7	163.9	231.5	322.5	429.5
15°	11.9	18.4	31.8	45.7	63.3	90.5	128.3	173.5	246.1	342.3	456.3
12.5°	11.9	18.6	32.9	48.0	66.9	95.6	135.4	183.0	260.9	360.5	481.4
10°	11.9	18.8	34.0	50.3	70.3	100.5	142.0	191.9	275.5	382.1	508.0
7.5°	11.9	19.0	35.1	52.5	73.5	105.1	148.2	200.2	289.0	402.9	539.8
5°	11.9	19.2	36.1	54.6	76.6	109.4	153.8	207.9	301.3	422.3	569.7
2.5°	11.9	19.4	37.0	56.6	79.5	113.4	159.0	214.8	312.3	439.7	597.2
0°	11.9	19.5	37.9	58.5	82.3	117.0	163.6	221.0	321.7	455.0	621.8
-2.5°	11.9	20.2	39.5	61.1	86.1	122.3	170.6	230.0	332.7	467.9	634.5
-5°	11.9	21.0	41.1	63.5	89.7	127.3	177.0	238.1	342.1	478.3	643.9
-7.5°	11.9	21.7	42.5	65.9	93.1	131.9	182.7	245.4	349.7	486.2	650.0
-10°	11.9	22.4	43.9	68.0	96.3	136.1	187.9	251.7	355.5	491.5	652.9
-12.5°	11.9	23.0	45.2	70.1	99.2	139.8	192.3	257.0	359.4	494.3	657.5
-15°	11.9	23.7	46.4	71.9	101.9	143.1	196.1	261.2	361.6	495.1	659.9
-17.5°	11.9	24.3	47.5	73.7	104.3	145.9	199.1	264.9	362.1	493.0	657.1
-20°	11.9	24.9	48.5	75.2	106.4	148.1	201.9	268.0	360.8	487.9	649.0



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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°	11.9	25.4	49.4	76.6	108.2	149.9	204.6	270.2	357.6	479.9	636.0
-25°	11.9	25.9	50.2	77.8	109.8	152.0	206.7	271.3	352.5	468.8	624.6
-27.5°	11.9	26.3	50.9	78.9	111.0	154.0	207.9	271.5	345.6	461.3	616.2
-30°	11.9	26.8	51.5	79.7	112.0	155.5	208.3	270.8	342.6	455.3	603.2
-32.5°	11.9	27.1	52.0	80.4	113.9	156.5	207.9	270.1	342.4	446.2	585.3
-35°	11.9	27.5	52.3	80.9	115.5	156.9	207.9	269.1	340.4	434.0	562.3
-37.5°	11.9	27.7	52.6	81.2	116.7	157.5	207.9	267.5	336.8	418.6	541.4
-40°	11.9	28.0	52.7	81.3	117.7	158.6	207.2	264.7	331.5	409.2	521.2
-42.5°	11.9	28.2	52.7	81.5	118.5	159.4	206.0	260.8	326.2	401.5	497.6
-45°	11.9	28.3	52.6	81.9	119.2	159.8	204.3	257.0	320.4	391.6	472.8
-47.5°	11.9	28.4	52.4	82.1	119.4	159.9	201.8	254.0	313.3	379.6	459.0
-50°	11.9	28.4	52.0	82.2	119.2	159.5	200.8	250.0	304.2	368.8	442.6
-52.5°	11.9	28.4	51.6	82.1	118.7	158.7	199.8	245.2	296.4	356.0	422.8
-55°	11.9	28.4	51.0	81.7	117.7	157.3	198.1	239.9	288.8	341.2	402.9
-57.5°	11.9	28.3	50.3	81.1	116.4	155.4	196.0	237.2	280.2	329.6	381.3
-60°	11.9	28.1	49.6	80.2	114.7	153.0	193.2	233.4	271.5	318.1	360.6
-62.5°	11.9	28.0	48.9	79.2	113.1	150.2	189.6	228.8	265.9	304.9	344.1
-65°	11.9	27.7	48.1	77.9	111.1	146.9	185.5	223.5	259.7	294.6	326.5
-67.5°	11.9	27.4	47.2	76.4	108.9	143.4	180.8	217.1	252.7	284.9	312.9
-70°	11.9	27.1	46.2	74.7	106.4	139.6	175.6	210.1	244.1	274.5	300.6
-72.5°	11.9	26.8	45.0	73.1	103.5	135.2	169.4	202.6	234.9	262.7	287.6
-75°	11.9	26.4	43.8	71.4	100.4	130.5	162.6	193.7	225.1	250.4	273.8
-77.5°	11.9	25.9	42.5	69.4	97.5	125.3	155.3	184.1	213.4	237.3	259.6
-80°	11.9	25.5	41.1	67.3	94.5	120.6	147.5	174.0	201.1	222.2	243.0
-82.5°	11.9	25.0	39.6	65.1	91.2	116.1	141.4	164.5	188.2	206.8	225.3
-85°	11.9	24.4	38.0	62.7	87.7	111.4	135.4	156.5	178.0	193.6	209.0
-87.5°	11.9	23.9	36.4	60.1	84.1	106.5	129.0	148.3	167.7	181.7	195.6
-90°	11.9	10.8	9.7	9.7	9.7	9.7	9.7	9.2	8.7	8.7	8.7





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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°	189.6	197.2	204.2	211.2	219.9	228.6	237.8	247.0	256.8	266.5	275.7
87.5°	8.6	8.2	8.2	8.2	7.7	7.2	6.9	6.5	6.0	5.4	5.3
85°	9.1	8.7	8.8	8.7	8.3	7.9	7.5	7.0	6.5	6.0	6.0
82.5°	9.8	9.8	9.4	8.8	8.6	8.6	8.2	7.7	7.2	6.9	6.7
80°	10.6	10.8	10.0	9.1	8.9	8.7	8.2	7.7	7.6	7.6	7.2
77.5°	11.0	10.9	10.3	9.7	9.3	9.0	8.7	8.3	8.1	7.7	7.6
75°	11.3	11.0	10.6	10.0	9.6	9.6	9.4	9.1	8.9	8.9	8.9
72.5°	12.0	11.7	11.1	10.2	9.9	10.2	10.2	9.9	10.2	10.6	10.6
70°	12.9	12.5	11.8	11.0	10.6	11.0	11.5	12.3	13.1	13.3	14.3
67.5°	14.0	13.5	12.5	11.9	11.7	12.3	13.0	15.7	18.2	19.6	21.1
65°	15.5	14.8	13.8	13.6	13.0	15.7	17.9	20.7	25.9	28.4	28.2
62.5°	17.4	17.6	16.3	16.6	18.8	21.2	25.1	31.0	37.1	39.4	37.3
60°	22.1	21.5	21.5	23.0	25.4	28.2	34.3	41.6	48.6	52.4	46.7
57.5°	28.3	28.1	29.8	30.7	33.9	34.9	42.9	52.0	58.0	62.5	55.1
55°	37.1	37.4	40.6	41.6	43.9	43.8	50.8	59.3	65.5	67.5	59.8
52.5°	49.2	49.8	55.5	56.3	55.6	56.3	58.9	68.1	73.2	73.3	66.5
50°	62.5	69.5	73.0	75.4	71.2	73.8	71.4	81.6	89.3	88.6	91.1
47.5°	82.3	91.6	96.8	100.6	97.4	105.5	103.7	119.5	124.8	154.6	159.3
45°	105.7	120.6	127.5	135.9	145.2	155.0	180.2	180.2	250.6	278.3	351.3
42.5°	131.9	154.2	173.4	176.8	223.5	250.7	285.1	355.6	424.3	510.6	543.5
40°	166.8	191.6	230.6	274.6	326.4	385.6	449.6	535.2	625.4	670.1	675.7
37.5°	205.4	251.9	306.3	386.2	465.8	543.5	624.6	708.3	773.3	789.8	850.4
35°	246.8	315.0	416.5	508.3	601.0	708.3	780.4	857.5	896.5	964.9	1081.6
32.5°	299.0	379.8	506.0	625.4	728.4	845.2	914.2	973.3	1064.9	1183.5	1441.2
30°	353.4	452.9	580.5	718.4	845.2	943.1	1021.7	1095.9	1239.5	1526.0	2409.6
27.5°	398.8	515.7	649.9	803.6	948.3	1037.6	1126.7	1256.1	1512.7	2103.1	3779.1
25°	439.4	566.3	717.9	896.3	1038.0	1136.3	1252.3	1435.1	1837.6	3440.0	5587.7
22.5°	479.1	616.3	795.6	993.8	1128.9	1233.3	1409.0	1739.1	2582.6	4835.3	7416.6
20°	520.1	680.2	879.9	1084.3	1216.0	1319.3	1546.0	2034.3	3761.1	6337.4	9030.5
17.5°	563.1	744.6	961.9	1148.7	1271.9	1409.5	1690.4	2276.5	4744.9	7740.3	10754.9
15°	605.1	806.4	1032.0	1204.2	1323.1	1506.7	1884.3	2990.8	5785.3	9306.9	12598.7
12.5°	645.3	862.5	1086.4	1247.8	1373.6	1597.4	2043.6	3777.6	7036.2	10761.4	14201.6
10°	683.2	912.8	1132.2	1289.0	1428.4	1694.1	2197.0	4548.0	8131.2	11706.6	15190.8
7.5°	722.1	954.7	1170.9	1328.3	1481.4	1785.3	2365.9	5146.5	8948.8	12433.6	15955.3
5°	757.4	986.9	1208.1	1372.3	1535.9	1866.2	2502.5	5604.0	9562.3	13034.4	16636.0
2.5°	788.2	1012.2	1239.7	1413.7	1589.0	1933.9	2541.9	5731.2	9850.6	13357.6	17305.7
0°	814.6	1031.3	1265.3	1450.5	1636.9	1988.9	2552.2	5708.9	9921.9	13455.5	17957.7
-2.5°	829.6	1056.0	1311.1	1503.4	1679.7	2033.3	2606.2	5717.4	9982.2	14141.4	18796.2
-5°	840.1	1074.5	1348.7	1550.3	1717.6	2064.5	2636.3	5587.5	9900.6	14502.4	19041.3
-7.5°	846.0	1086.1	1376.3	1589.2	1752.1	2087.2	2653.2	5376.1	9905.1	14518.9	18733.0
-10°	849.1	1097.2	1389.3	1611.1	1781.6	2098.1	2645.1	5013.1	9511.9	14125.8	18225.2
-12.5°	859.3	1107.4	1393.9	1627.3	1805.2	2100.6	2657.2	4657.9	8774.3	13410.4	17499.2
-15°	863.3	1110.1	1391.3	1640.7	1843.3	2126.2	2657.6	4106.1	7816.8	12502.6	16586.4
-17.5°	860.7	1105.1	1383.4	1660.0	1878.5	2128.3	2597.3	3382.4	6723.1	11211.0	15384.4
-20°	851.3	1093.6	1366.1	1669.6	1898.6	2145.9	2579.5	3264.8	5651.2	9596.3	13924.9



REPORT NUMBER: P701502 (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°	837.7	1075.9	1341.3	1648.5	1921.6	2184.6	2555.4	3108.5	4390.8	7751.6	12118.2
-25°	821.4	1056.3	1314.8	1624.2	1932.2	2209.3	2480.4	2899.8	3650.8	6173.3	9881.9
-27.5°	804.4	1028.4	1286.5	1584.0	1925.8	2197.5	2436.3	2784.2	3314.8	4419.8	7551.9
-30°	782.9	994.9	1244.9	1531.8	1868.8	2161.2	2409.5	2634.6	2997.0	3661.0	5541.1
-32.5°	756.6	955.7	1198.5	1472.4	1782.7	2117.7	2347.3	2542.9	2819.0	3225.9	3997.3
-35°	726.8	921.0	1146.9	1397.4	1680.8	2008.6	2253.8	2460.8	2647.2	2960.5	3453.7
-37.5°	696.5	878.3	1080.5	1318.1	1587.9	1855.5	2144.9	2351.2	2539.0	2735.6	3087.0
-40°	661.1	825.1	1014.6	1234.2	1463.0	1705.9	1974.3	2232.7	2418.3	2623.2	2833.9
-42.5°	622.4	774.7	944.0	1134.4	1339.8	1558.1	1796.3	2055.1	2303.9	2499.8	2693.4
-45°	591.1	720.1	868.8	1038.4	1215.1	1409.4	1626.7	1853.4	2117.5	2371.1	2550.2
-47.5°	553.3	665.8	802.9	937.3	1097.3	1270.7	1456.3	1671.0	1892.5	2142.2	2387.2
-50°	517.1	620.3	725.7	847.0	982.8	1135.1	1300.5	1489.6	1694.4	1899.1	2121.2
-52.5°	492.4	571.3	661.1	756.8	875.5	1006.1	1152.6	1313.1	1492.6	1671.5	1864.1
-55°	465.3	533.6	598.1	679.2	772.4	885.8	1013.0	1153.2	1290.1	1453.4	1617.0
-57.5°	438.8	495.4	547.2	609.4	687.3	770.6	886.2	1002.9	1121.8	1248.2	1386.5
-60°	412.0	458.3	503.6	553.9	610.7	684.4	764.8	862.4	959.5	1060.5	1182.8
-62.5°	385.1	422.9	461.7	505.1	553.4	603.2	668.9	740.0	808.1	900.1	997.5
-65°	363.5	389.5	421.6	459.8	498.7	544.2	590.1	634.6	694.4	764.1	834.8
-67.5°	340.3	364.8	388.4	415.1	450.3	487.9	525.8	565.7	606.2	654.1	705.7
-70°	323.4	340.7	361.7	383.9	407.0	434.1	467.8	500.9	535.1	575.1	616.2
-72.5°	307.4	323.4	339.1	354.6	375.3	397.9	420.2	442.4	470.8	504.9	537.7
-75°	291.1	305.7	320.1	334.2	349.9	366.7	384.2	404.2	426.3	449.9	472.7
-77.5°	274.4	287.3	300.4	313.4	327.8	342.6	357.9	373.2	390.6	408.9	426.6
-80°	256.5	268.6	280.3	291.9	304.8	318.0	331.7	345.3	360.7	376.6	391.3
-82.5°	236.7	247.4	258.4	269.2	281.1	293.0	305.1	317.2	330.7	344.4	357.0
-85°	217.8	226.1	235.8	245.3	256.2	267.1	277.9	288.6	301.0	313.4	324.3
-87.5°	203.8	211.7	219.6	227.3	236.6	245.9	255.3	264.5	275.4	286.3	295.8
-90°	8.2	7.6	7.6	7.6	7.1	6.5	6.5	6.5	6.0	5.4	4.9



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	284.9	290.9	296.8	301.7	306.6	313.1	319.6	328.3	336.9	345.6	354.2
87.5°	5.2	4.8	4.3	4.2	4.2	4.2	4.2	3.7	3.2	3.2	3.2
85°	6.1	6.0	5.9	5.6	5.2	5.2	5.3	5.2	5.3	4.8	4.3
82.5°	6.5	6.5	6.5	6.0	5.4	5.4	5.4	5.4	5.4	4.9	4.3
80°	6.9	6.7	6.5	6.3	6.1	5.8	5.4	5.0	4.5	4.4	4.3
77.5°	7.7	7.4	7.0	6.8	6.6	6.1	5.5	4.9	4.4	4.3	4.3
75°	8.8	8.4	8.2	7.8	7.2	6.9	6.8	6.6	6.2	6.2	6.3
72.5°	10.5	10.3	10.3	10.6	10.5	10.9	11.4	11.8	12.3	13.1	14.2
70°	15.6	16.6	17.1	17.5	17.4	17.2	17.2	17.4	18.0	18.5	18.9
67.5°	22.8	24.5	25.4	25.9	24.2	23.2	23.3	23.8	24.6	26.1	28.3
65°	29.7	29.3	28.5	28.0	28.2	28.3	28.1	28.4	29.9	32.1	34.9
62.5°	34.9	30.2	27.4	26.1	27.0	28.6	27.5	26.6	27.9	29.3	30.6
60°	40.0	31.2	25.0	23.1	22.7	23.4	21.5	19.8	20.3	20.8	21.6
57.5°	44.7	33.4	23.2	19.7	16.6	15.0	14.5	13.9	13.5	13.1	13.3
55°	49.0	36.4	22.8	20.2	17.9	17.4	15.9	15.1	14.5	14.2	14.6
52.5°	54.3	46.8	37.3	34.7	39.1	39.4	34.8	41.4	46.4	48.6	49.5
50°	88.9	79.6	95.5	94.0	112.7	125.9	121.2	135.9	157.8	171.6	177.3
47.5°	195.2	195.6	227.1	255.0	278.1	308.4	331.6	354.0	385.2	404.6	413.4
45°	370.4	401.9	434.8	482.7	528.7	584.7	652.0	705.0	917.5	1129.2	1321.7
42.5°	566.9	601.5	649.7	754.1	878.2	1165.4	1678.9	1965.6	2323.4	2712.9	2862.3
40°	730.5	780.8	913.1	1207.0	1923.1	2604.7	3353.6	3986.8	4547.3	4869.8	5139.3
37.5°	932.6	1052.5	1655.2	2487.2	3377.4	4231.8	5003.1	5672.2	6253.0	6724.2	7190.4
35°	1227.1	2023.1	2913.4	3995.4	4941.6	5733.1	6532.2	7299.0	7957.7	8661.4	9706.8
32.5°	2326.3	3366.6	4511.9	5481.7	6406.5	7405.2	8244.8	9471.7	10432.6	11715.4	13676.0
30°	3733.9	5039.6	6078.0	7048.0	8234.0	9577.8	10979.7	12856.3	14817.3	16862.9	18968.1
27.5°	5541.2	6860.0	7954.7	9248.6	10814.5	12602.8	15283.1	17928.3	20740.7	23298.7	25242.9
25°	7719.6	9116.2	10987.5	12864.9	15105.7	18161.9	21173.2	24414.3	27233.9	29744.2	32554.3
22.5°	9761.2	12050.6	14521.8	17356.0	21005.0	24451.9	28175.2	31455.0	34993.5	38571.4	41338.5
20°	11484.8	14467.3	18012.3	22098.0	26142.7	30047.3	34380.2	39608.1	44876.0	49582.2	52997.3
17.5°	13809.8	17587.1	21999.6	26856.1	31210.6	36049.3	42079.6	48872.4	56253.9	62785.0	67963.6
15°	16350.3	20761.0	25750.4	30839.0	36347.9	42831.8	50586.0	59261.0	68290.1	77448.1	85980.1
12.5°	18077.3	23244.8	28693.3	34743.8	41615.1	50308.4	59724.0	69340.8	79659.1	91053.9	100951.1
10°	19553.7	25286.6	31859.8	38897.8	46793.3	56138.3	65869.8	77550.6	90430.1	101651.3	112252.1
7.5°	21014.0	27750.5	34616.9	41944.9	50619.4	60769.4	72286.7	84849.0	97956.4	110153.0	118822.1
5°	22742.0	29730.9	36596.8	44337.7	53421.8	63979.7	76127.8	90553.5	104363.5	115574.7	123393.7
2.5°	24170.9	30918.9	37949.3	45610.7	54947.0	65970.3	79155.0	95186.2	109356.7	119839.5	126914.7
0°	24898.3	31679.7	38800.2	46585.8	56156.7	67404.5	81789.5	98630.3	112023.1	121707.1	129284.2
-2.5°	24987.0	31437.9	38427.1	46106.0	55460.0	66930.9	81677.9	98717.7	112717.1	122782.2	130258.0
-5°	24728.8	31119.3	38095.0	45778.6	55006.2	66954.6	81761.6	98146.6	111674.0	122099.7	129140.1
-7.5°	24106.0	30534.1	37522.8	45093.2	54175.8	65763.9	79574.0	94426.0	108340.2	119605.1	126099.8
-10°	23193.6	29509.6	36390.6	43637.6	52203.0	62916.9	75267.5	88864.6	102925.1	113695.8	121185.6
-12.5°	22039.6	28017.2	34595.0	41446.5	49533.3	59515.2	70524.4	81910.0	93696.4	105975.7	113776.8
-15°	20714.9	26177.0	32334.2	39222.5	47217.6	55536.3	64281.4	73557.3	84332.1	94376.2	103456.8
-17.5°	19457.9	24162.2	29907.1	36618.4	43426.6	50654.7	58149.4	65722.7	74363.0	82247.4	89300.6
-20°	17878.2	21883.7	27177.0	33140.2	39466.6	45729.6	52167.1	58302.8	64575.4	70992.9	76594.6



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 CATALOG NUMBER: EPH-LS-08-0640L-40-80-5S-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	16016.2	19911.6	24328.0	29520.2	35593.7	41167.9	46323.8	51118.8	56146.5	60587.0	65197.0
-25°	13987.8	17733.2	21791.7	26524.9	31188.1	36241.5	40520.7	44598.4	48498.2	51985.1	55569.9
-27.5°	11496.9	15450.9	19451.4	23239.7	27087.8	30716.1	34705.9	38468.1	41720.5	44597.0	47438.2
-30°	8690.7	12887.5	16671.8	19921.5	22972.2	25998.3	29052.9	32209.9	35288.7	37908.1	40235.2
-32.5°	6412.2	9913.2	13411.1	16595.6	19265.7	21766.8	24142.3	26619.1	28772.6	30983.7	33135.6
-35°	4242.5	6716.9	9620.8	12858.1	15638.9	17743.1	19897.0	21871.7	23495.1	25209.3	26833.9
-37.5°	3570.4	4228.9	6171.5	8799.8	11375.3	13794.9	15942.8	17659.6	19153.7	20523.0	21926.1
-40°	3149.5	3525.1	4077.8	5032.7	7198.7	9327.3	11540.2	13365.0	14956.8	16269.3	17561.1
-42.5°	2873.2	3131.0	3406.3	3782.4	4153.1	5195.5	7012.1	8587.2	10080.1	11558.9	12889.9
-45°	2730.1	2874.7	3032.2	3236.7	3395.3	3677.8	3993.3	4289.8	5477.9	6761.9	7836.6
-47.5°	2558.4	2712.7	2830.4	2926.7	3003.8	3127.9	3259.0	3430.5	3705.6	4029.9	4277.5
-50°	2339.0	2526.2	2643.7	2740.2	2795.6	2843.6	2890.8	2998.3	3147.3	3324.2	3464.5
-52.5°	2055.2	2240.5	2406.8	2532.4	2593.6	2653.2	2712.6	2786.5	2871.3	2973.4	3046.6
-55°	1787.8	1942.6	2086.5	2203.6	2309.2	2405.4	2497.8	2576.0	2667.5	2764.6	2832.9
-57.5°	1533.9	1659.0	1777.0	1878.4	1969.8	2050.7	2145.3	2248.1	2365.0	2476.4	2554.7
-60°	1296.8	1396.1	1494.3	1576.7	1651.1	1717.4	1804.9	1891.0	1993.5	2084.8	2151.2
-62.5°	1084.6	1171.4	1244.0	1306.1	1362.2	1417.7	1491.2	1563.4	1647.6	1720.5	1775.8
-65°	901.1	973.6	1024.7	1070.9	1111.4	1158.7	1215.6	1273.4	1339.7	1396.3	1441.6
-67.5°	759.7	808.8	840.9	869.4	903.0	940.7	983.7	1029.8	1081.4	1124.2	1158.9
-70°	652.7	683.3	702.8	724.1	748.7	774.7	803.9	838.6	877.8	911.2	940.0
-72.5°	568.1	591.5	607.6	624.0	638.9	656.6	676.2	702.2	731.1	757.3	781.5
-75°	494.7	511.4	526.5	540.7	553.6	568.7	584.4	606.2	629.9	651.5	671.8
-77.5°	445.5	458.4	468.4	478.0	487.3	499.8	512.7	530.3	548.8	566.6	583.9
-80°	405.9	415.9	424.4	431.4	437.8	448.4	459.5	473.9	488.6	504.0	519.3
-82.5°	369.3	378.0	386.1	392.8	399.0	408.6	418.4	431.4	444.4	457.2	469.8
-85°	335.0	343.0	350.6	357.0	363.2	371.0	378.7	389.9	401.1	412.7	424.3
-87.5°	305.2	312.7	320.2	325.2	330.1	337.1	344.0	353.5	363.0	373.0	383.0
-90°	4.3	4.3	4.3	3.8	3.2	3.2	3.2	2.7	2.2	2.2	2.2



REPORT NUMBER: P701502 (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°	358.6	362.9	365.1	367.2	365.1	362.9	358.6	354.2	345.6	336.9	328.3
87.5°	2.7	2.2	2.2	2.2	2.2	2.2	2.7	3.2	3.2	3.2	3.7
85°	3.7	3.2	3.7	4.3	3.7	3.2	3.7	4.3	4.8	5.3	5.2
82.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.9	5.4	5.4
80°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.4	4.5	5.0
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.4	4.9
75°	5.9	5.4	5.4	5.4	5.4	5.4	5.9	6.3	6.2	6.2	6.6
72.5°	14.6	14.9	15.6	16.2	15.6	14.9	14.6	14.2	13.1	12.3	11.8
70°	19.2	19.4	19.5	19.5	19.5	19.4	19.2	18.9	18.5	18.0	17.4
67.5°	29.4	29.9	31.2	32.5	31.2	29.9	29.4	28.3	26.1	24.6	23.8
65°	36.9	38.4	38.9	39.0	38.9	38.4	36.9	34.9	32.1	29.9	28.4
62.5°	32.0	33.4	33.7	33.6	33.7	33.4	32.0	30.6	29.3	27.9	26.6
60°	22.3	22.9	23.3	23.8	23.3	22.9	22.3	21.6	20.8	20.3	19.8
57.5°	13.5	14.2	14.2	14.1	14.2	14.2	13.5	13.3	13.1	13.5	13.9
55°	14.8	15.1	14.8	14.1	14.8	15.1	14.8	14.6	14.2	14.5	15.1
52.5°	48.2	45.8	43.4	41.2	43.4	45.8	48.2	49.5	48.6	46.4	41.4
50°	175.4	172.5	168.3	163.6	168.3	172.5	175.4	177.3	171.6	157.8	135.9
47.5°	421.2	422.1	418.0	410.6	418.0	422.1	421.2	413.4	404.6	385.2	354.0
45°	1489.4	1570.4	1614.1	1644.4	1614.1	1570.4	1489.4	1321.7	1129.2	917.5	705.0
42.5°	2993.1	3106.7	3193.1	3210.9	3193.1	3106.7	2993.1	2862.3	2712.9	2323.4	1965.6
40°	5458.9	5478.0	5161.2	4683.1	5161.2	5478.0	5458.9	5139.3	4869.8	4547.3	3986.8
37.5°	7746.1	8545.4	9473.9	9947.9	9473.9	8545.4	7746.1	7190.4	6724.2	6253.0	5672.2
35°	11117.5	12319.9	12709.9	12720.0	12709.9	12319.9	11117.5	9706.8	8661.4	7957.7	7299.0
32.5°	15444.0	16421.6	16943.6	16801.8	16943.6	16421.6	15444.0	13676.0	11715.4	10432.6	9471.7
30°	20194.9	21045.4	21052.2	20767.8	21052.2	21045.4	20194.9	18968.1	16862.9	14817.3	12856.3
27.5°	27255.2	29052.4	30317.3	30658.2	30317.3	29052.4	27255.2	25242.9	23298.7	20740.7	17928.3
25°	35086.4	37061.4	38275.6	38717.9	38275.6	37061.4	35086.4	32554.3	29744.2	27233.9	24414.3
22.5°	43913.9	45834.0	46710.4	47168.6	46710.4	45834.0	43913.9	41338.5	38571.4	34993.5	31455.0
20°	56252.8	58982.9	60012.1	60451.9	60012.1	58982.9	56252.8	52997.3	49582.2	44876.0	39608.1
17.5°	73344.4	78736.3	82107.7	83839.1	82107.7	78736.3	73344.4	67963.6	62785.0	56253.9	48872.4
15°	92294.6	97768.4	101368.2	103526.8	101368.2	97768.4	92294.6	85980.1	77448.1	68290.1	59261.0
12.5°	108551.4	113431.1	116908.1	118975.1	116908.1	113431.1	108551.4	100951.1	91053.9	79659.1	69340.8
10°	118980.8	123165.6	126772.8	128534.6	126772.8	123165.6	118980.8	112252.1	101651.3	90430.1	77550.6
7.5°	124875.1	129741.0	131696.4	132901.3	131696.4	129741.0	124875.1	118822.1	110153.0	97956.4	84849.0
5°	129443.3	133288.6	135093.7	135974.6	135093.7	133288.6	129443.3	123393.7	115574.7	104363.5	90553.5
2.5°	132492.9	135831.1	137107.7	137818.4	137107.7	135831.1	132492.9	126914.7	119839.5	109356.7	95186.2
0°	133956.4	136417.7	137848.7	137151.1	137848.7	136417.7	133956.4	129284.2	121707.1	112023.1	98630.3
-2.5°	133966.6	136306.1	137369.9	136852.1	137369.9	136306.1	133966.6	130258.0	122782.2	112717.1	98717.7
-5°	132820.5	134566.5	135862.2	135447.0	135862.2	134566.5	132820.5	129140.1	122099.7	111674.0	98146.6
-7.5°	129729.6	132050.2	132999.2	133045.4	132999.2	132050.2	129729.6	126099.8	119605.1	108340.2	94426.0
-10°	125477.6	128050.4	129060.8	129164.0	129060.8	128050.4	125477.6	121185.6	113695.8	102925.1	88864.6
-12.5°	119158.1	122176.2	123630.3	123889.5	123630.3	122176.2	119158.1	113776.8	105975.7	93696.4	81910.0
-15°	109348.0	113415.8	115711.9	116517.6	115711.9	113415.8	109348.0	103456.8	94376.2	84332.1	73557.3
-17.5°	96011.4	100871.7	103734.8	104744.4	103734.8	100871.7	96011.4	89300.6	82247.4	74363.0	65722.7
-20°	82100.1	85703.3	87910.5	88820.1	87910.5	85703.3	82100.1	76594.6	70992.9	64575.4	58302.8



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	69446.5	72351.6	73991.5	74720.0	73991.5	72351.6	69446.5	65197.0	60587.0	56146.5	51118.8
-25°	58471.9	60918.7	61759.7	62233.9	61759.7	60918.7	58471.9	55569.9	51985.1	48498.2	44598.4
-27.5°	49504.9	51446.0	51898.9	52317.5	51898.9	51446.0	49504.9	47438.2	44597.0	41720.5	38468.1
-30°	41949.1	43638.3	43869.1	44332.6	43869.1	43638.3	41949.1	40235.2	37908.1	35288.7	32209.9
-32.5°	34882.9	36387.0	36963.2	37051.8	36963.2	36387.0	34882.9	33135.6	30983.7	28772.6	26619.1
-35°	28116.6	29107.8	29500.0	29524.0	29500.0	29107.8	28116.6	26833.9	25209.3	23495.1	21871.7
-37.5°	22796.6	23428.5	23882.8	23757.6	23882.8	23428.5	22796.6	21926.1	20523.0	19153.7	17659.6
-40°	18285.0	18920.8	19336.0	19234.9	19336.0	18920.8	18285.0	17561.1	16269.3	14956.8	13365.0
-42.5°	13624.0	14323.2	14715.7	14607.1	14715.7	14323.2	13624.0	12889.9	11558.9	10080.1	8587.2
-45°	8449.3	9065.7	9354.8	9178.7	9354.8	9065.7	8449.3	7836.6	6761.9	5477.9	4289.8
-47.5°	4408.0	4548.3	4593.1	4530.3	4593.1	4548.3	4408.0	4277.5	4029.9	3705.6	3430.5
-50°	3574.0	3662.0	3699.8	3688.6	3699.8	3662.0	3574.0	3464.5	3324.2	3147.3	2998.3
-52.5°	3104.2	3144.8	3158.2	3150.2	3158.2	3144.8	3104.2	3046.6	2973.4	2871.3	2786.5
-55°	2890.6	2931.0	2944.9	2940.0	2944.9	2931.0	2890.6	2832.9	2764.6	2667.5	2576.0
-57.5°	2619.8	2669.3	2700.0	2715.8	2700.0	2669.3	2619.8	2554.7	2476.4	2365.0	2248.1
-60°	2204.8	2244.4	2255.8	2250.0	2255.8	2244.4	2204.8	2151.2	2084.8	1993.5	1891.0
-62.5°	1819.1	1851.7	1876.0	1892.5	1876.0	1851.7	1819.1	1775.8	1720.5	1647.6	1563.4
-65°	1474.9	1498.5	1503.4	1499.3	1503.4	1498.5	1474.9	1441.6	1396.3	1339.7	1273.4
-67.5°	1183.2	1200.6	1203.0	1199.2	1203.0	1200.6	1183.2	1158.9	1124.2	1081.4	1029.8
-70°	959.3	974.0	976.1	973.9	976.1	974.0	959.3	940.0	911.2	877.8	838.6
-72.5°	795.7	806.4	814.6	821.1	814.6	806.4	795.7	781.5	757.3	731.1	702.2
-75°	682.1	689.8	691.7	692.2	691.7	689.8	682.1	671.8	651.5	629.9	606.2
-77.5°	593.0	600.7	606.2	611.0	606.2	600.7	593.0	583.9	566.6	548.8	530.3
-80°	526.1	532.1	536.5	540.6	536.5	532.1	526.1	519.3	504.0	488.6	473.9
-82.5°	476.3	482.4	486.2	489.6	486.2	482.4	476.3	469.8	457.2	444.4	431.4
-85°	429.3	434.0	437.6	440.9	437.6	434.0	429.3	424.3	412.7	401.1	389.9
-87.5°	387.6	392.1	394.3	396.5	394.3	392.1	387.6	383.0	373.0	363.0	353.5
-90°	1.7	1.1	1.1	1.1	1.1	1.1	1.7	2.2	2.2	2.2	2.7



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	319.6	313.1	306.6	301.7	296.8	290.9	284.9	275.7	266.5	256.8	247.0
87.5°	4.2	4.2	4.2	4.2	4.3	4.8	5.2	5.3	5.4	6.0	6.5
85°	5.3	5.2	5.2	5.6	5.9	6.0	6.1	6.0	6.0	6.5	7.0
82.5°	5.4	5.4	5.4	6.0	6.5	6.5	6.5	6.7	6.9	7.2	7.7
80°	5.4	5.8	6.1	6.3	6.5	6.7	6.9	7.2	7.6	7.6	7.7
77.5°	5.5	6.1	6.6	6.8	7.0	7.4	7.7	7.6	7.7	8.1	8.3
75°	6.8	6.9	7.2	7.8	8.2	8.4	8.8	8.9	8.9	8.9	9.1
72.5°	11.4	10.9	10.5	10.6	10.3	10.3	10.5	10.6	10.6	10.2	9.9
70°	17.2	17.2	17.4	17.5	17.1	16.6	15.6	14.3	13.3	13.1	12.3
67.5°	23.3	23.2	24.2	25.9	25.4	24.5	22.8	21.1	19.6	18.2	15.7
65°	28.1	28.3	28.2	28.0	28.5	29.3	29.7	28.2	28.4	25.9	20.7
62.5°	27.5	28.6	27.0	26.1	27.4	30.2	34.9	37.3	39.4	37.1	31.0
60°	21.5	23.4	22.7	23.1	25.0	31.2	40.0	46.7	52.4	48.6	41.6
57.5°	14.5	15.0	16.6	19.7	23.2	33.4	44.7	55.1	62.5	58.0	52.0
55°	15.9	17.4	17.9	20.2	22.8	36.4	49.0	59.8	67.5	65.5	59.3
52.5°	34.8	39.4	39.1	34.7	37.3	46.8	54.3	66.5	73.3	73.2	68.1
50°	121.2	125.9	112.7	94.0	95.5	79.6	88.9	91.1	88.6	89.3	81.6
47.5°	331.6	308.4	278.1	255.0	227.1	195.6	195.2	159.3	154.6	124.8	119.5
45°	652.0	584.7	528.7	482.7	434.8	401.9	370.4	351.3	278.3	250.6	180.2
42.5°	1678.9	1165.4	878.2	754.1	649.7	601.5	566.9	543.5	510.6	424.3	355.6
40°	3353.6	2604.7	1923.1	1207.0	913.1	780.8	730.5	675.7	670.1	625.4	535.2
37.5°	5003.1	4231.8	3377.4	2487.2	1655.2	1052.5	932.6	850.4	789.8	773.3	708.3
35°	6532.2	5733.1	4941.6	3995.4	2913.4	2023.1	1227.1	1081.6	964.9	896.5	857.5
32.5°	8244.8	7405.2	6406.5	5481.7	4511.9	3366.6	2326.3	1441.2	1183.5	1064.9	973.3
30°	10979.7	9577.8	8234.0	7048.0	6078.0	5039.6	3733.9	2409.6	1526.0	1239.5	1095.9
27.5°	15283.1	12602.8	10814.5	9248.6	7954.7	6860.0	5541.2	3779.1	2103.1	1512.7	1256.1
25°	21173.2	18161.9	15105.7	12864.9	10987.5	9116.2	7719.6	5587.7	3440.0	1837.6	1435.1
22.5°	28175.2	24451.9	21005.0	17356.0	14521.8	12050.6	9761.2	7416.6	4835.3	2582.6	1739.1
20°	34380.2	30047.3	26142.7	22098.0	18012.3	14467.3	11484.8	9030.5	6337.4	3761.1	2034.3
17.5°	42079.6	36049.3	31210.6	26856.1	21999.6	17587.1	13809.8	10754.9	7740.3	4744.9	2276.5
15°	50586.0	42831.8	36347.9	30839.0	25750.4	20761.0	16350.3	12598.7	9306.9	5785.3	2990.8
12.5°	59724.0	50308.4	41615.1	34743.8	28693.3	23244.8	18077.3	14201.6	10761.4	7036.2	3777.6
10°	65869.8	56138.3	46793.3	38897.8	31859.8	25286.6	19553.7	15190.8	11706.6	8131.2	4548.0
7.5°	72286.7	60769.4	50619.4	41944.9	34616.9	27750.5	21014.0	15955.3	12433.6	8948.8	5146.5
5°	76127.8	63979.7	53421.8	44337.7	36596.8	29730.9	22742.0	16636.0	13034.4	9562.3	5604.0
2.5°	79155.0	65970.3	54947.0	45610.7	37949.3	30918.9	24170.9	17305.7	13357.6	9850.6	5731.2
0°	81789.5	67404.5	56156.7	46585.8	38800.2	31679.7	24898.3	17957.7	13455.5	9921.9	5708.9
-2.5°	81677.9	66930.9	55460.0	46106.0	38427.1	31437.9	24987.0	18796.2	14141.4	9982.2	5717.4
-5°	81761.6	66954.6	55006.2	45778.6	38095.0	31119.3	24728.8	19041.3	14502.4	9900.6	5587.5
-7.5°	79574.0	65763.9	54175.8	45093.2	37522.8	30534.1	24106.0	18733.0	14518.9	9905.1	5376.1
-10°	75267.5	62916.9	52203.0	43637.6	36390.6	29509.6	23193.6	18225.2	14125.8	9511.9	5013.1
-12.5°	70524.4	59515.2	49533.3	41446.5	34595.0	28017.2	22039.6	17499.2	13410.4	8774.3	4657.9
-15°	64281.4	55536.3	47217.6	39222.5	32334.2	26177.0	20714.9	16586.4	12502.6	7816.8	4106.1
-17.5°	58149.4	50654.7	43426.6	36618.4	29907.1	24162.2	19457.9	15384.4	11211.0	6723.1	3382.4
-20°	52167.1	45729.6	39466.6	33140.2	27177.0	21883.7	17878.2	13924.9	9596.3	5651.2	3264.8



REPORT NUMBER: P701502 (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°	46323.8	41167.9	35593.7	29520.2	24328.0	19911.6	16016.2	12118.2	7751.6	4390.8	3108.5
-25°	40520.7	36241.5	31188.1	26524.9	21791.7	17733.2	13987.8	9881.9	6173.3	3650.8	2899.8
-27.5°	34705.9	30716.1	27087.8	23239.7	19451.4	15450.9	11496.9	7551.9	4419.8	3314.8	2784.2
-30°	29052.9	25998.3	22972.2	19921.5	16671.8	12887.5	8690.7	5541.1	3661.0	2997.0	2634.6
-32.5°	24142.3	21766.8	19265.7	16595.6	13411.1	9913.2	6412.2	3997.3	3225.9	2819.0	2542.9
-35°	19897.0	17743.1	15638.9	12858.1	9620.8	6716.9	4242.5	3453.7	2960.5	2647.2	2460.8
-37.5°	15942.8	13794.9	11375.3	8799.8	6171.5	4228.9	3570.4	3087.0	2735.6	2539.0	2351.2
-40°	11540.2	9327.3	7198.7	5032.7	4077.8	3525.1	3149.5	2833.9	2623.2	2418.3	2232.7
-42.5°	7012.1	5195.5	4153.1	3782.4	3406.3	3131.0	2873.2	2693.4	2499.8	2303.9	2055.1
-45°	3993.3	3677.8	3395.3	3236.7	3032.2	2874.7	2730.1	2550.2	2371.1	2117.5	1853.4
-47.5°	3259.0	3127.9	3003.8	2926.7	2830.4	2712.7	2558.4	2387.2	2142.2	1892.5	1671.0
-50°	2890.8	2843.6	2795.6	2740.2	2643.7	2526.2	2339.0	2121.2	1899.1	1694.4	1489.6
-52.5°	2712.6	2653.2	2593.6	2532.4	2406.8	2240.5	2055.2	1864.1	1671.5	1492.6	1313.1
-55°	2497.8	2405.4	2309.2	2203.6	2086.5	1942.6	1787.8	1617.0	1453.4	1290.1	1153.2
-57.5°	2145.3	2050.7	1969.8	1878.4	1777.0	1659.0	1533.9	1386.5	1248.2	1121.8	1002.9
-60°	1804.9	1717.4	1651.1	1576.7	1494.3	1396.1	1296.8	1182.8	1060.5	959.5	862.4
-62.5°	1491.2	1417.7	1362.2	1306.1	1244.0	1171.4	1084.6	997.5	900.1	808.1	740.0
-65°	1215.6	1158.7	1111.4	1070.9	1024.7	973.6	901.1	834.8	764.1	694.4	634.6
-67.5°	983.7	940.7	903.0	869.4	840.9	808.8	759.7	705.7	654.1	606.2	565.7
-70°	803.9	774.7	748.7	724.1	702.8	683.3	652.7	616.2	575.1	535.1	500.9
-72.5°	676.2	656.6	638.9	624.0	607.6	591.5	568.1	537.7	504.9	470.8	442.4
-75°	584.4	568.7	553.6	540.7	526.5	511.4	494.7	472.7	449.9	426.3	404.2
-77.5°	512.7	499.8	487.3	478.0	468.4	458.4	445.5	426.6	408.9	390.6	373.2
-80°	459.5	448.4	437.8	431.4	424.4	415.9	405.9	391.3	376.6	360.7	345.3
-82.5°	418.4	408.6	399.0	392.8	386.1	378.0	369.3	357.0	344.4	330.7	317.2
-85°	378.7	371.0	363.2	357.0	350.6	343.0	335.0	324.3	313.4	301.0	288.6
-87.5°	344.0	337.1	330.1	325.2	320.2	312.7	305.2	295.8	286.3	275.4	264.5
-90°	3.2	3.2	3.2	3.8	4.3	4.3	4.3	4.9	5.4	6.0	6.5





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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	237.8	228.6	219.9	211.2	204.2	197.2	189.6	182.0	169.6	157.1	139.8
87.5°	6.9	7.2	7.7	8.2	8.2	8.2	8.6	9.1	9.3	9.4	9.8
85°	7.5	7.9	8.3	8.7	8.8	8.7	9.1	9.6	9.9	10.1	10.5
82.5°	8.2	8.6	8.6	8.8	9.4	9.8	9.8	10.0	10.5	10.9	11.2
80°	8.2	8.7	8.9	9.1	10.0	10.8	10.6	10.6	11.2	11.7	11.8
77.5°	8.7	9.0	9.3	9.7	10.3	10.9	11.0	11.1	11.9	12.4	12.5
75°	9.4	9.6	9.6	10.0	10.6	11.0	11.3	11.7	12.5	13.2	13.2
72.5°	10.2	10.2	9.9	10.2	11.1	11.7	12.0	12.3	13.0	13.7	13.9
70°	11.5	11.0	10.6	11.0	11.8	12.5	12.9	13.3	13.6	14.3	14.7
67.5°	13.0	12.3	11.7	11.9	12.5	13.5	14.0	14.5	14.8	15.0	15.6
65°	17.9	15.7	13.0	13.6	13.8	14.8	15.5	16.1	16.1	16.5	16.5
62.5°	25.1	21.2	18.8	16.6	16.3	17.6	17.4	18.7	17.8	18.1	17.9
60°	34.3	28.2	25.4	23.0	21.5	21.5	22.1	21.8	21.5	19.7	19.5
57.5°	42.9	34.9	33.9	30.7	29.8	28.1	28.3	27.7	26.0	24.3	21.4
55°	50.8	43.8	43.9	41.6	40.6	37.4	37.1	35.7	32.3	30.2	23.7
52.5°	58.9	56.3	55.6	56.3	55.5	49.8	49.2	44.6	42.0	36.7	29.8
50°	71.4	73.8	71.2	75.4	73.0	69.5	62.5	57.6	52.4	44.6	36.4
47.5°	103.7	105.5	97.4	100.6	96.8	91.6	82.3	72.2	63.4	54.7	43.2
45°	180.2	155.0	145.2	135.9	127.5	120.6	105.7	87.6	77.4	65.0	50.2
42.5°	285.1	250.7	223.5	176.8	173.4	154.2	131.9	110.9	92.1	75.7	58.6
40°	449.6	385.6	326.4	274.6	230.6	191.6	166.8	136.8	107.3	87.5	68.1
37.5°	624.6	543.5	465.8	386.2	306.3	251.9	205.4	164.1	125.5	101.3	77.8
35°	780.4	708.3	601.0	508.3	416.5	315.0	246.8	195.8	150.2	115.4	87.7
32.5°	914.2	845.2	728.4	625.4	506.0	379.8	299.0	231.7	175.4	129.9	98.0
30°	1021.7	943.1	845.2	718.4	580.5	452.9	353.4	267.0	201.0	144.7	109.0
27.5°	1126.7	1037.6	948.3	803.6	649.9	515.7	398.8	301.6	226.9	161.3	121.0
25°	1252.3	1136.3	1038.0	896.3	717.9	566.3	439.4	335.5	254.7	180.5	132.5
22.5°	1409.0	1233.3	1128.9	993.8	795.6	616.3	479.1	371.3	278.6	198.6	143.5
20°	1546.0	1319.3	1216.0	1084.3	879.9	680.2	520.1	401.2	301.2	215.6	154.0
17.5°	1690.4	1409.5	1271.9	1148.7	961.9	744.6	563.1	429.5	322.5	231.5	163.9
15°	1884.3	1506.7	1323.1	1204.2	1032.0	806.4	605.1	456.3	342.3	246.1	173.5
12.5°	2043.6	1597.4	1373.6	1247.8	1086.4	862.5	645.3	481.4	360.5	260.9	183.0
10°	2197.0	1694.1	1428.4	1289.0	1132.2	912.8	683.2	508.0	382.1	275.5	191.9
7.5°	2365.9	1785.3	1481.4	1328.3	1170.9	954.7	722.1	539.8	402.9	289.0	200.2
5°	2502.5	1866.2	1535.9	1372.3	1208.1	986.9	757.4	569.7	422.3	301.3	207.9
2.5°	2541.9	1933.9	1589.0	1413.7	1239.7	1012.2	788.2	597.2	439.7	312.3	214.8
0°	2552.2	1988.9	1636.9	1450.5	1265.3	1031.3	814.6	621.8	455.0	321.7	221.0
-2.5°	2606.2	2033.3	1679.7	1503.4	1311.1	1056.0	829.6	634.5	467.9	332.7	230.0
-5°	2636.3	2064.5	1717.6	1550.3	1348.7	1074.5	840.1	643.9	478.3	342.1	238.1
-7.5°	2653.2	2087.2	1752.1	1589.2	1376.3	1086.1	846.0	650.0	486.2	349.7	245.4
-10°	2645.1	2098.1	1781.6	1611.1	1389.3	1097.2	849.1	652.9	491.5	355.5	251.7
-12.5°	2657.2	2100.6	1805.2	1627.3	1393.9	1107.4	859.3	657.5	494.3	359.4	257.0
-15°	2657.6	2126.2	1843.3	1640.7	1391.3	1110.1	863.3	659.9	495.1	361.6	261.2
-17.5°	2597.3	2128.3	1878.5	1660.0	1383.4	1105.1	860.7	657.1	493.0	362.1	264.9
-20°	2579.5	2145.9	1898.6	1669.6	1366.1	1093.6	851.3	649.0	487.9	360.8	268.0



REPORT NUMBER: P701502 (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°	2555.4	2184.6	1921.6	1648.5	1341.3	1075.9	837.7	636.0	479.9	357.6	270.2
-25°	2480.4	2209.3	1932.2	1624.2	1314.8	1056.3	821.4	624.6	468.8	352.5	271.3
-27.5°	2436.3	2197.5	1925.8	1584.0	1286.5	1028.4	804.4	616.2	461.3	345.6	271.5
-30°	2409.5	2161.2	1868.8	1531.8	1244.9	994.9	782.9	603.2	455.3	342.6	270.8
-32.5°	2347.3	2117.7	1782.7	1472.4	1198.5	955.7	756.6	585.3	446.2	342.4	270.1
-35°	2253.8	2008.6	1680.8	1397.4	1146.9	921.0	726.8	562.3	434.0	340.4	269.1
-37.5°	2144.9	1855.5	1587.9	1318.1	1080.5	878.3	696.5	541.4	418.6	336.8	267.5
-40°	1974.3	1705.9	1463.0	1234.2	1014.6	825.1	661.1	521.2	409.2	331.5	264.7
-42.5°	1796.3	1558.1	1339.8	1134.4	944.0	774.7	622.4	497.6	401.5	326.2	260.8
-45°	1626.7	1409.4	1215.1	1038.4	868.8	720.1	591.1	472.8	391.6	320.4	257.0
-47.5°	1456.3	1270.7	1097.3	937.3	802.9	665.8	553.3	459.0	379.6	313.3	254.0
-50°	1300.5	1135.1	982.8	847.0	725.7	620.3	517.1	442.6	368.8	304.2	250.0
-52.5°	1152.6	1006.1	875.5	756.8	661.1	571.3	492.4	422.8	356.0	296.4	245.2
-55°	1013.0	885.8	772.4	679.2	598.1	533.6	465.3	402.9	341.2	288.8	239.9
-57.5°	886.2	770.6	687.3	609.4	547.2	495.4	438.8	381.3	329.6	280.2	237.2
-60°	764.8	684.4	610.7	553.9	503.6	458.3	412.0	360.6	318.1	271.5	233.4
-62.5°	668.9	603.2	553.4	505.1	461.7	422.9	385.1	344.1	304.9	265.9	228.8
-65°	590.1	544.2	498.7	459.8	421.6	389.5	363.5	326.5	294.6	259.7	223.5
-67.5°	525.8	487.9	450.3	415.1	388.4	364.8	340.3	312.9	284.9	252.7	217.1
-70°	467.8	434.1	407.0	383.9	361.7	340.7	323.4	300.6	274.5	244.1	210.1
-72.5°	420.2	397.9	375.3	354.6	339.1	323.4	307.4	287.6	262.7	234.9	202.6
-75°	384.2	366.7	349.9	334.2	320.1	305.7	291.1	273.8	250.4	225.1	193.7
-77.5°	357.9	342.6	327.8	313.4	300.4	287.3	274.4	259.6	237.3	213.4	184.1
-80°	331.7	318.0	304.8	291.9	280.3	268.6	256.5	243.0	222.2	201.1	174.0
-82.5°	305.1	293.0	281.1	269.2	258.4	247.4	236.7	225.3	206.8	188.2	164.5
-85°	277.9	267.1	256.2	245.3	235.8	226.1	217.8	209.0	193.6	178.0	156.5
-87.5°	255.3	245.9	236.6	227.3	219.6	211.7	203.8	195.6	181.7	167.7	148.3
-90°	6.5	6.5	7.1	7.6	7.6	7.6	8.2	8.7	8.7	8.7	9.2



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	122.4	101.3	80.2	57.4	34.7	23.3	11.9
87.5°	10.3	10.2	10.1	10.1	10.0	11.0	11.9
85°	10.8	10.7	10.5	10.4	10.3	11.3	11.9
82.5°	11.4	11.1	10.9	10.8	10.6	11.5	11.9
80°	12.0	11.6	11.2	11.1	10.9	11.8	11.9
77.5°	12.6	12.1	11.6	11.5	11.2	12.0	11.9
75°	13.2	12.9	12.1	11.9	11.6	12.3	11.9
72.5°	13.8	13.6	12.9	12.2	11.9	12.5	11.9
70°	14.6	14.4	13.6	12.7	12.3	12.8	11.9
67.5°	15.5	15.2	14.4	13.3	12.6	13.0	11.9
65°	16.5	16.0	15.2	13.9	13.0	13.3	11.9
62.5°	17.5	16.9	16.0	14.6	13.4	13.6	11.9
60°	18.5	17.9	16.7	15.2	13.9	13.8	11.9
57.5°	20.5	18.8	17.8	15.8	14.6	14.1	11.9
55°	22.9	19.8	19.0	16.4	15.3	14.3	11.9
52.5°	25.5	21.0	20.3	17.1	16.1	14.6	11.9
50°	28.3	24.0	21.6	17.7	16.9	14.9	11.9
47.5°	31.8	27.2	23.1	18.4	17.8	15.2	11.9
45°	37.8	30.5	24.6	19.6	18.7	15.4	11.9
42.5°	43.8	34.0	26.3	20.8	19.7	15.7	11.9
40°	50.2	37.6	28.6	22.6	20.6	16.0	11.9
37.5°	57.1	41.3	31.4	24.8	21.7	16.2	11.9
35°	64.0	46.3	34.3	27.0	22.7	16.5	11.9
32.5°	71.5	51.9	37.2	29.3	23.8	16.7	11.9
30°	80.2	57.4	40.2	31.6	24.9	17.0	11.9
27.5°	88.7	62.8	44.1	33.9	26.1	17.3	11.9
25°	97.0	68.1	48.2	36.3	27.2	17.5	11.9
22.5°	105.1	73.6	52.1	38.7	28.4	17.7	11.9
20°	112.9	79.4	55.9	41.0	29.5	18.0	11.9
17.5°	120.7	85.1	59.7	43.4	30.7	18.2	11.9
15°	128.3	90.5	63.3	45.7	31.8	18.4	11.9
12.5°	135.4	95.6	66.9	48.0	32.9	18.6	11.9
10°	142.0	100.5	70.3	50.3	34.0	18.8	11.9
7.5°	148.2	105.1	73.5	52.5	35.1	19.0	11.9
5°	153.8	109.4	76.6	54.6	36.1	19.2	11.9
2.5°	159.0	113.4	79.5	56.6	37.0	19.4	11.9
0°	163.6	117.0	82.3	58.5	37.9	19.5	11.9
-2.5°	170.6	122.3	86.1	61.1	39.5	20.2	11.9
-5°	177.0	127.3	89.7	63.5	41.1	21.0	11.9
-7.5°	182.7	131.9	93.1	65.9	42.5	21.7	11.9
-10°	187.9	136.1	96.3	68.0	43.9	22.4	11.9
-12.5°	192.3	139.8	99.2	70.1	45.2	23.0	11.9
-15°	196.1	143.1	101.9	71.9	46.4	23.7	11.9
-17.5°	199.1	145.9	104.3	73.7	47.5	24.3	11.9
-20°	201.9	148.1	106.4	75.2	48.5	24.9	11.9



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	204.6	149.9	108.2	76.6	49.4	25.4	11.9
-25°	206.7	152.0	109.8	77.8	50.2	25.9	11.9
-27.5°	207.9	154.0	111.0	78.9	50.9	26.3	11.9
-30°	208.3	155.5	112.0	79.7	51.5	26.8	11.9
-32.5°	207.9	156.5	113.9	80.4	52.0	27.1	11.9
-35°	207.9	156.9	115.5	80.9	52.3	27.5	11.9
-37.5°	207.9	157.5	116.7	81.2	52.6	27.7	11.9
-40°	207.2	158.6	117.7	81.3	52.7	28.0	11.9
-42.5°	206.0	159.4	118.5	81.5	52.7	28.2	11.9
-45°	204.3	159.8	119.2	81.9	52.6	28.3	11.9
-47.5°	201.8	159.9	119.4	82.1	52.4	28.4	11.9
-50°	200.8	159.5	119.2	82.2	52.0	28.4	11.9
-52.5°	199.8	158.7	118.7	82.1	51.6	28.4	11.9
-55°	198.1	157.3	117.7	81.7	51.0	28.4	11.9
-57.5°	196.0	155.4	116.4	81.1	50.3	28.3	11.9
-60°	193.2	153.0	114.7	80.2	49.6	28.1	11.9
-62.5°	189.6	150.2	113.1	79.2	48.9	28.0	11.9
-65°	185.5	146.9	111.1	77.9	48.1	27.7	11.9
-67.5°	180.8	143.4	108.9	76.4	47.2	27.4	11.9
-70°	175.6	139.6	106.4	74.7	46.2	27.1	11.9
-72.5°	169.4	135.2	103.5	73.1	45.0	26.8	11.9
-75°	162.6	130.5	100.4	71.4	43.8	26.4	11.9
-77.5°	155.3	125.3	97.5	69.4	42.5	25.9	11.9
-80°	147.5	120.6	94.5	67.3	41.1	25.5	11.9
-82.5°	141.4	116.1	91.2	65.1	39.6	25.0	11.9
-85°	135.4	111.4	87.7	62.7	38.0	24.4	11.9
-87.5°	129.0	106.5	84.1	60.1	36.4	23.9	11.9
-90°	9.7	9.7	9.7	9.7	9.7	10.8	11.9

(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

