

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: P731701 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-57-70-3S-VHE**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731701 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680N-57-70-3S-VHE  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 5700K, 70 CRI LEDS AND 3S BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

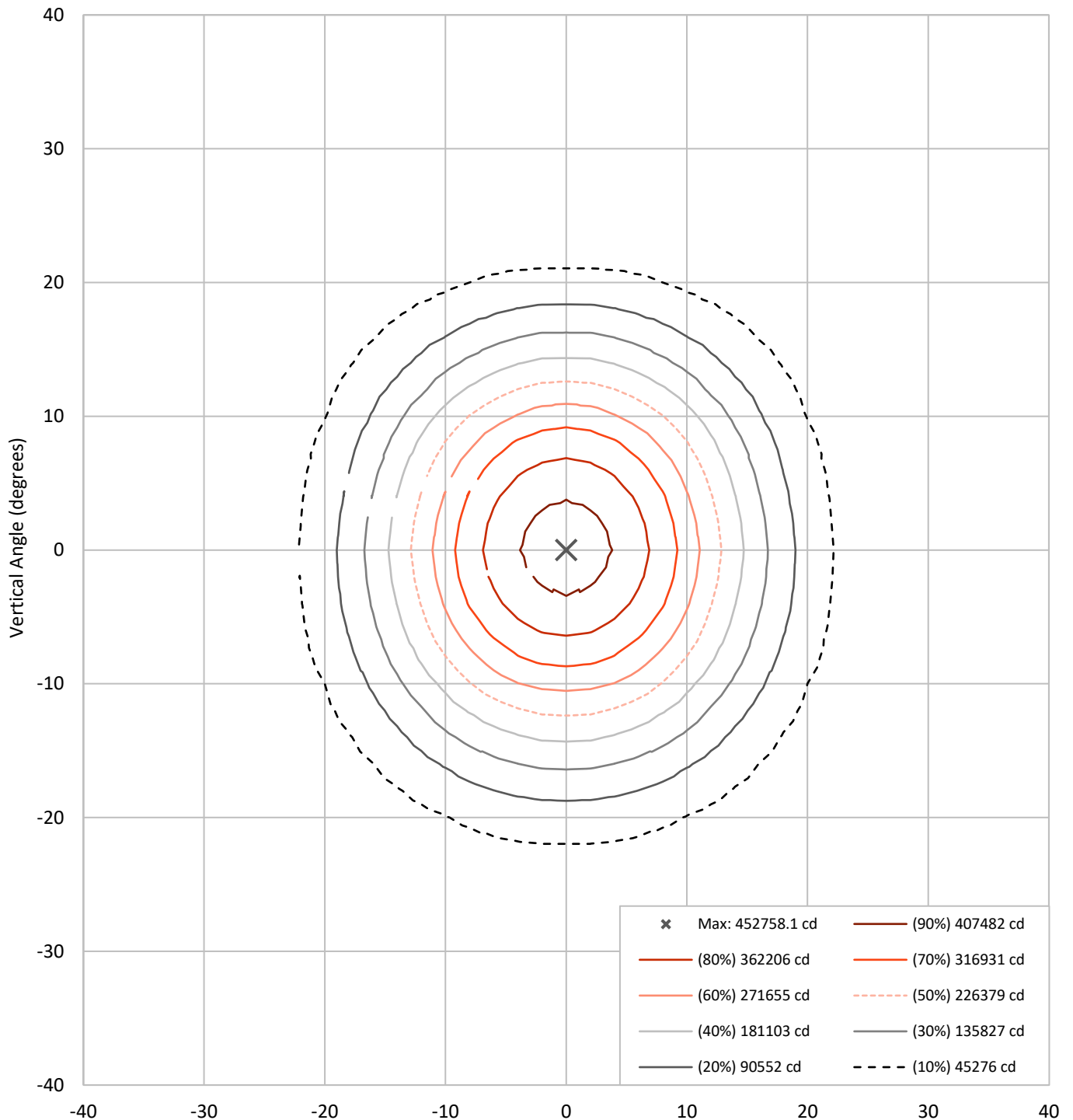
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	101721.3 lumens	Max Intensity:	452758.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	145.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	25.7°H x 24.9°V	Field Angle (10%):	44.2°H x 43°V
Beam Lumens:	48669.3 lumens	Field Lumens:	85280.7 lumens
Beam Efficiency:	47.8%	Field Efficiency:	83.8%

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

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### Iso-Candela Plot





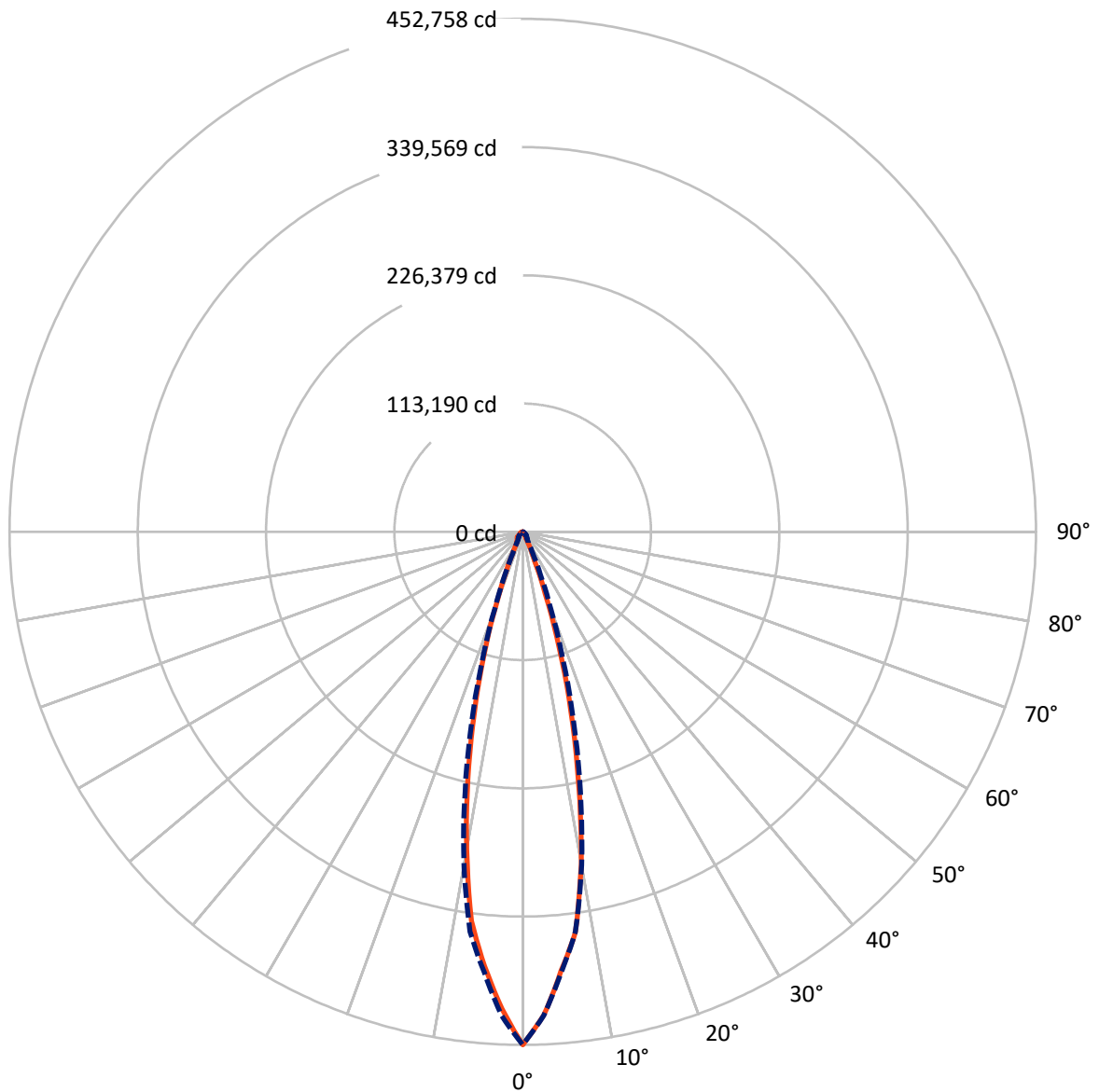
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### Lumen Table

90	0.2	0.8	1.6	2.4	2.8	2.4	1.6	0.8	0.2										
80	0.2	0.8	1.6	2.4	2.8	2.4	1.6	0.8	0.2										
70	0.3	0.2	0.3	0.8	0.9	0.8	0.6	0.6	0.6	0.6	0.8	0.9	0.8	0.3	0.2	0.3			
60		0.5	1.0	1.3	1.1	1.1	1.5	1.7	1.7	1.5	1.1	1.1	1.3	1.0	0.5				
50	1.0	1.4	3.4	7.1	13.1	22.4	31.9	36.2	36.2	31.9	22.4	13.1	7.1	3.4	1.4	1.0			
40		3.5	10.8	22.3	41.9	69.5	84.0	98.6	98.6	84.0	69.5	41.9	22.3	10.8	3.5				
30	2.3	5.9	18.1	39.8	89.2	114.7	247.8	542.0	542.0	247.8	114.7	89.2	39.8	18.1	5.9	2.3			
20		7.8	23.9	64.8	128.0	309.5	1864.4	4507.4	4507.4	1864.4	309.5	128.0	64.8	23.9	7.8				
10	3.4	9.4	27.7	82.5	155.1	687.0	4528.3	10314.1	10314.1	4528.3	687.0	155.1	82.5	27.7	9.4	3.4			
0		10.4	30.4	87.3	171.8	708.1	4555.7	10207.0	10207.0	4555.7	708.1	171.8	87.3	30.4	10.4				
-10	3.7	10.5	31.4	84.3	171.2	379.6	1944.0	4549.4	4549.4	1944.0	379.6	171.2	84.3	31.4	10.5	3.7			
-20		9.7	30.0	66.7	154.0	232.5	403.0	766.3	766.3	403.0	232.5	154.0	66.7	30.0	9.7				
-30	3.1	8.2	25.6	53.3	106.4	186.0	229.6	254.8	254.8	229.6	186.0	106.4	53.3	25.6	8.2	3.1			
-40		6.4	19.6	41.3	67.4	99.4	145.7	181.6	181.6	145.7	99.4	67.4	41.3	19.6	6.4				
-50	2.6	4.3	12.7	27.0	45.3	61.7	75.0	83.2	83.2	75.0	61.7	45.3	27.0	12.7	4.3	2.6			
-60		3.0	6.7	13.9	23.6	32.6	41.1	46.3	46.3	41.1	32.6	23.6	13.9	6.7	3.0				
-70	1.9	11.1	25.8	42.0	51.5	42.0	25.8	11.1	1.9						1.9				
-80		11.1	25.8	42.0	51.5	42.0	25.8	11.1	1.9										
-90	1.9	11.1	25.8	42.0	51.5	42.0	25.8	11.1	1.9										

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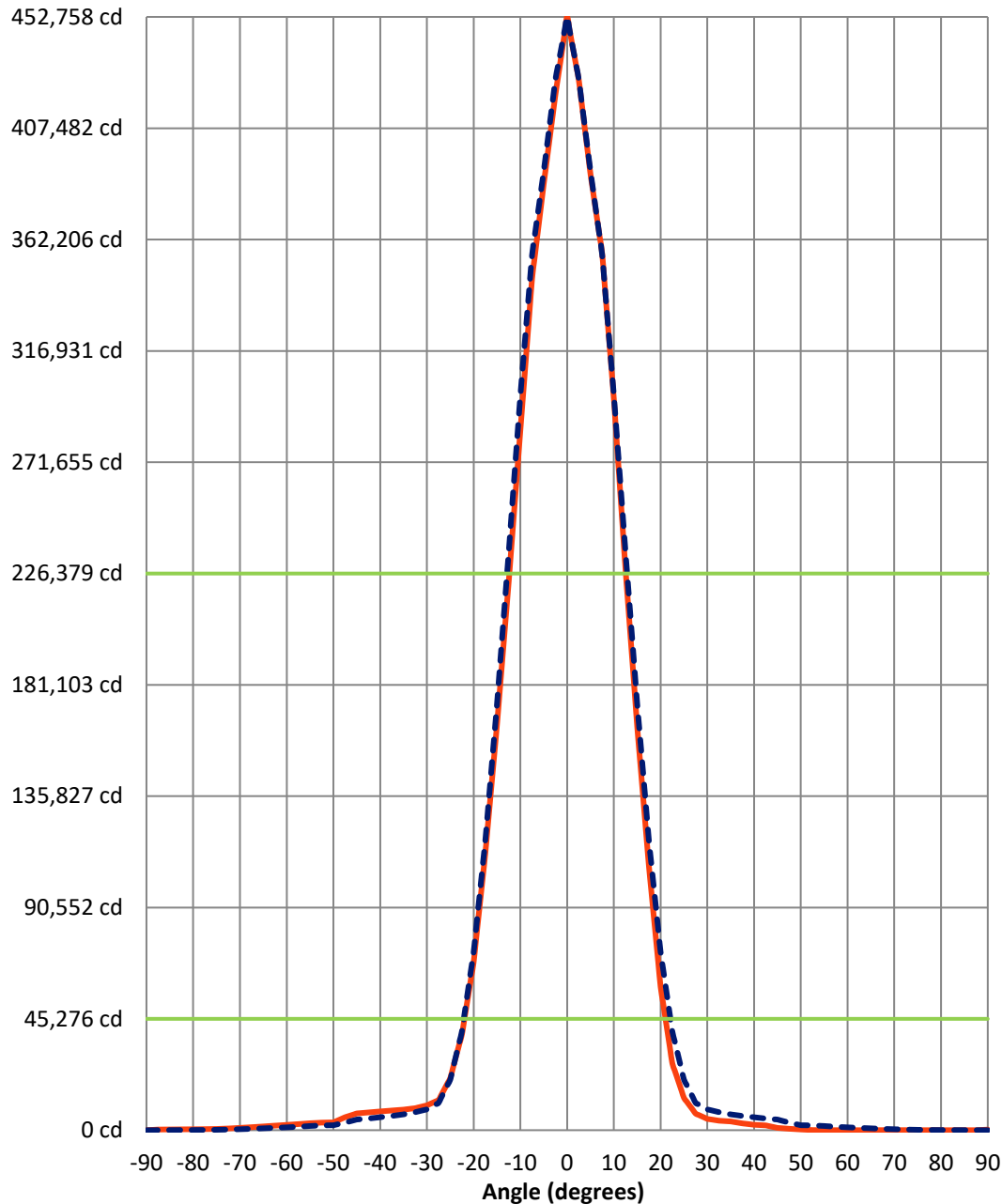
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 25.7°  
 V Angle: 24.9°  
 Lumens: 48669.3  
 Efficiency: 47.8%

**Field:**  
 H Angle: 44.2°  
 V Angle: 43°  
 Lumens: 85280.7  
 Efficiency: 83.8%

**Spill:**  
 Lumens: 16440.5  
 Efficiency: 16.2%

— 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°	3.6	15.1	26.7	43.0	59.4	73.3	87.3	97.6	107.9	116.4	124.8
87.5°	3.6	3.9	3.8	3.9	4.0	4.0	3.9	3.5	3.2	3.1	2.9
85°	3.6	4.2	4.0	4.3	4.5	4.4	4.2	4.1	4.0	3.8	3.4
82.5°	3.6	4.5	4.3	4.6	4.9	4.8	4.6	4.6	4.8	4.4	4.0
80°	3.6	4.8	4.5	4.9	5.3	5.2	4.9	5.2	5.3	4.9	4.5
77.5°	3.6	5.1	4.8	5.2	5.8	5.8	5.6	5.8	5.8	5.4	5.1
75°	3.6	5.4	5.0	5.5	6.2	6.5	6.3	6.4	6.3	6.2	5.7
72.5°	3.6	5.7	5.3	5.8	6.9	7.2	7.1	7.2	7.3	7.0	6.5
70°	3.6	6.0	5.7	6.2	7.6	7.9	7.9	8.4	8.4	7.9	8.1
67.5°	3.6	6.3	6.0	6.9	8.3	8.6	9.4	9.7	9.6	10.1	10.1
65°	3.6	6.6	6.4	7.7	9.0	9.8	10.9	11.1	12.1	12.4	12.3
62.5°	3.6	6.9	6.8	8.4	9.8	11.4	12.6	13.4	14.8	14.8	14.9
60°	3.6	7.2	7.2	9.1	10.6	13.1	14.3	16.3	17.7	18.1	17.7
57.5°	3.6	7.6	8.0	9.9	12.2	14.8	17.0	19.2	21.5	21.8	24.0
55°	3.6	7.9	8.9	10.7	13.9	16.6	19.8	22.4	25.9	27.3	32.5
52.5°	3.6	8.2	9.7	11.5	15.7	18.6	22.7	26.9	30.7	37.6	41.7
50°	3.6	8.5	10.6	12.3	17.4	21.3	25.7	31.7	37.5	48.8	58.7
47.5°	3.6	8.9	11.5	13.2	19.2	24.1	28.8	36.7	48.8	61.0	79.1
45°	3.6	9.2	12.4	14.6	21.1	27.0	33.4	41.9	60.7	81.8	101.7
42.5°	3.6	9.5	13.4	16.0	23.0	30.1	38.0	50.5	73.1	104.3	136.3
40°	3.6	9.9	14.3	17.8	25.2	33.2	43.0	61.7	88.7	128.2	175.3
37.5°	3.6	10.2	15.3	19.8	27.6	36.3	48.5	73.1	110.7	156.8	217.0
35°	3.6	10.6	16.3	21.9	30.0	40.4	54.1	84.7	133.6	193.5	263.8
32.5°	3.6	10.9	17.3	23.9	32.5	44.8	61.1	96.9	157.2	230.4	310.1
30°	3.6	11.2	18.3	25.9	34.9	49.3	71.2	111.0	181.6	267.5	353.4
27.5°	3.6	11.5	19.3	27.9	38.1	53.7	81.1	129.5	206.3	304.4	393.7
25°	3.6	11.9	20.3	29.9	41.2	58.2	90.8	147.0	231.4	339.0	431.3
22.5°	3.6	12.2	21.2	31.9	44.3	62.6	100.3	163.4	254.3	362.5	472.2
20°	3.6	12.5	22.2	33.8	47.4	67.2	109.6	178.7	275.0	384.3	505.2
17.5°	3.6	12.8	23.2	35.7	50.3	71.6	118.1	192.9	293.5	404.3	536.2
15°	3.6	13.1	24.1	37.6	53.2	75.8	126.0	205.6	309.9	422.5	565.5
12.5°	3.6	13.4	25.1	39.4	55.9	79.7	133.3	217.0	326.6	438.8	592.9
10°	3.6	13.6	25.9	41.1	58.6	83.5	140.0	227.2	343.7	463.1	622.8
7.5°	3.6	13.9	26.8	42.8	61.1	86.9	146.0	236.2	359.4	487.6	660.2
5°	3.6	14.1	27.6	44.4	63.5	90.1	151.4	244.0	373.6	510.6	694.8
2.5°	3.6	14.3	28.4	45.9	65.8	93.1	156.1	250.5	386.0	531.6	726.2
0°	3.6	14.5	29.1	47.3	67.9	95.8	160.0	255.7	396.3	550.3	753.9
-2.5°	3.6	15.1	30.4	49.4	70.9	99.8	165.1	264.4	408.0	563.0	766.8
-5°	3.6	15.7	31.6	51.4	73.8	103.6	169.5	271.6	417.3	572.9	775.6
-7.5°	3.6	16.2	32.8	53.3	76.4	107.0	173.1	277.3	424.1	579.9	780.3
-10°	3.6	16.8	33.9	55.0	78.9	110.1	175.8	281.2	428.3	584.3	780.9
-12.5°	3.6	17.3	35.0	56.6	81.2	112.9	177.7	283.3	429.9	585.6	779.2
-15°	3.6	17.7	35.9	58.1	83.2	115.3	178.7	283.4	427.4	581.9	773.2
-17.5°	3.6	18.2	36.8	59.4	85.1	117.4	178.8	280.9	420.4	575.0	761.7
-20°	3.6	18.6	37.6	60.6	86.7	119.1	178.1	276.2	411.0	564.8	744.7



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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°	3.6	18.9	38.4	61.7	88.1	120.5	176.7	269.7	399.1	551.3	722.4
-25°	3.6	19.3	39.0	62.6	89.3	121.7	174.4	261.5	384.7	534.5	698.9
-27.5°	3.6	19.6	39.6	63.3	90.2	122.7	171.2	251.7	367.9	519.3	682.1
-30°	3.6	19.9	40.0	63.9	90.9	123.3	167.0	240.2	354.3	502.5	661.9
-32.5°	3.6	20.1	40.4	64.3	91.8	123.6	161.9	232.7	342.6	482.9	637.7
-35°	3.6	20.3	40.7	64.5	92.4	123.5	160.1	226.2	327.9	460.6	609.6
-37.5°	3.6	20.4	40.9	64.6	92.9	123.5	159.5	219.0	310.1	435.6	579.9
-40°	3.6	20.6	41.0	64.5	93.1	123.7	158.6	210.2	289.3	411.2	546.4
-42.5°	3.6	20.6	41.1	64.3	93.1	123.6	157.2	199.9	273.7	382.1	507.6
-45°	3.6	20.7	41.0	64.2	93.0	123.3	155.2	192.2	260.1	349.6	464.9
-47.5°	3.6	20.7	40.8	64.0	92.6	122.6	152.7	189.1	244.6	314.7	425.2
-50°	3.6	20.6	40.6	63.8	92.0	121.7	151.0	185.4	226.4	293.8	382.3
-52.5°	3.6	20.6	40.2	63.5	91.1	120.5	149.1	180.9	216.4	271.4	337.9
-55°	3.6	20.4	39.8	63.1	89.9	118.7	146.7	176.0	209.7	247.5	309.8
-57.5°	3.6	20.3	39.3	62.5	88.6	116.5	144.0	172.6	202.5	235.5	280.2
-60°	3.6	20.1	38.7	61.8	86.9	114.1	140.9	168.5	195.2	226.5	255.7
-62.5°	3.6	19.9	38.1	60.9	85.6	111.5	137.6	163.7	189.4	216.7	243.5
-65°	3.6	19.6	37.4	59.8	84.1	108.5	134.0	158.7	183.1	207.8	230.5
-67.5°	3.6	19.3	36.7	58.6	82.3	105.6	130.0	153.5	176.2	199.0	219.7
-70°	3.6	19.0	35.8	57.3	80.4	102.6	125.8	147.9	169.5	190.0	209.7
-72.5°	3.6	18.6	34.9	55.9	78.2	99.4	121.3	142.1	162.5	181.1	199.3
-75°	3.6	18.2	33.9	54.4	75.8	95.8	116.6	135.8	155.1	171.8	188.2
-77.5°	3.6	17.7	32.9	52.8	73.5	92.1	111.5	129.1	146.9	162.1	176.8
-80°	3.6	17.3	31.8	51.1	71.0	88.5	106.2	122.2	138.4	152.0	165.3
-82.5°	3.6	16.8	30.6	49.2	68.3	84.9	101.6	115.5	129.6	141.7	153.7
-85°	3.6	16.3	29.3	47.3	65.5	81.2	97.0	109.7	122.5	132.8	143.0
-87.5°	3.6	15.7	28.0	45.2	62.5	77.4	92.2	103.7	115.3	124.6	134.0
-90°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.0	2.4	2.4	2.4





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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°	131.5	138.2	144.3	150.3	155.8	161.2	168.5	175.7	181.2	186.7	192.2
87.5°	3.0	3.0	3.0	3.1	2.8	2.4	2.4	2.4	2.2	2.1	2.2
85°	3.5	3.6	3.6	3.6	3.1	2.8	2.8	2.9	3.0	3.0	2.8
82.5°	4.1	4.2	4.0	3.6	3.5	3.5	3.6	3.6	3.6	3.6	3.3
80°	4.6	4.8	4.4	4.0	4.1	4.3	4.1	3.7	3.6	3.7	3.8
77.5°	5.0	4.9	4.7	4.6	4.8	5.0	5.0	5.0	5.0	4.7	4.7
75°	5.4	5.0	5.1	5.0	5.1	5.7	6.1	6.1	5.9	5.7	5.8
72.5°	6.4	6.4	6.1	5.4	5.5	6.1	6.1	6.1	7.6	10.1	12.1
70°	8.0	7.9	7.4	6.9	6.7	7.2	9.2	12.5	16.3	19.7	23.0
67.5°	9.6	9.4	8.9	8.8	10.0	12.1	14.6	23.2	32.1	35.2	35.7
65°	11.3	11.1	11.2	12.6	14.3	20.4	28.2	38.5	47.0	46.5	42.9
62.5°	13.4	15.0	15.1	18.1	24.0	31.4	40.5	49.3	56.9	53.2	44.3
60°	19.2	20.3	23.1	28.6	34.8	42.0	51.5	54.3	56.2	54.8	43.1
57.5°	26.5	29.6	35.4	40.5	47.8	51.1	51.8	51.3	54.6	52.4	40.5
55°	37.0	42.4	50.1	55.4	59.7	53.4	52.7	56.0	55.6	50.9	39.4
52.5°	52.8	58.5	69.3	73.2	69.8	64.7	63.0	66.1	63.6	57.3	49.6
50°	70.0	83.7	90.8	93.9	87.8	87.1	80.8	84.8	88.2	85.1	95.8
47.5°	96.3	112.8	118.0	123.6	120.6	131.8	126.1	146.9	148.4	209.4	227.6
45°	128.0	150.0	156.1	170.7	186.8	206.2	239.7	248.5	348.9	409.9	482.1
42.5°	166.1	193.8	218.9	227.2	299.2	338.3	388.5	481.8	575.1	651.8	705.5
40°	215.2	243.4	296.3	359.4	436.0	502.4	598.4	706.4	795.3	854.2	881.9
37.5°	269.2	324.5	393.7	495.9	589.0	673.5	796.1	904.1	983.0	1037.5	1044.5
35°	327.2	405.7	519.2	622.7	718.9	833.3	955.0	1079.2	1143.8	1167.3	1267.5
32.5°	394.9	485.0	619.3	731.7	840.0	969.7	1099.1	1206.4	1263.5	1329.8	1668.8
30°	458.9	568.0	701.8	821.3	955.4	1103.1	1226.8	1328.0	1367.5	1715.8	2264.1
27.5°	510.0	640.1	774.4	918.5	1072.5	1241.4	1366.2	1431.8	1657.7	2173.1	2965.9
25°	557.7	697.7	847.7	1027.6	1202.9	1370.3	1497.2	1539.2	2008.9	2882.9	3473.8
22.5°	604.3	753.7	928.6	1143.1	1322.6	1478.8	1585.0	1839.3	2512.5	3619.4	3926.2
20°	650.8	820.1	1016.5	1230.5	1428.4	1574.2	1655.8	2155.9	3124.1	3902.4	4247.5
17.5°	695.7	887.0	1097.2	1304.0	1503.5	1651.3	1756.7	2422.9	3608.4	4156.3	4496.1
15°	739.4	944.0	1159.4	1373.0	1576.5	1718.8	2004.9	2814.6	3909.3	4463.5	4822.4
12.5°	781.4	992.8	1205.3	1432.8	1647.1	1784.4	2262.3	3289.4	4223.3	4766.1	5154.0
10°	820.9	1033.8	1245.2	1487.4	1712.8	1841.5	2503.9	3733.0	4510.5	4981.6	5333.1
7.5°	860.8	1070.8	1281.2	1536.7	1774.7	1893.6	2708.3	3975.7	4623.3	5123.8	5459.4
5°	896.0	1105.0	1324.0	1597.6	1834.7	1941.4	2880.8	4139.0	4659.1	5194.9	5550.4
2.5°	926.2	1133.4	1361.3	1654.3	1888.7	1984.7	2998.4	4263.5	4702.2	5245.4	5663.4
0°	951.5	1156.3	1392.7	1703.0	1934.5	2024.1	3076.2	4330.7	4729.5	5267.6	5788.8
-2.5°	970.0	1186.8	1442.8	1744.3	1972.1	2065.2	3100.7	4359.5	4769.2	5389.9	6070.3
-5°	983.7	1211.3	1484.7	1777.1	2002.7	2103.2	3083.2	4332.6	4816.6	5502.8	6249.1
-7.5°	992.3	1229.0	1517.0	1801.6	2028.2	2145.8	3030.7	4301.8	4965.1	5644.5	6339.1
-10°	996.3	1238.1	1522.0	1810.8	2048.7	2188.5	2940.8	4197.4	5072.4	5698.6	6346.5
-12.5°	999.8	1240.0	1516.0	1809.1	2061.4	2227.6	2827.7	4072.0	5171.3	5718.9	6300.6
-15°	996.7	1236.2	1502.6	1797.9	2077.7	2277.0	2683.2	3839.4	5215.4	5697.5	6214.2
-17.5°	986.6	1226.7	1484.2	1783.4	2088.1	2323.1	2493.7	3480.9	4978.3	5631.9	6148.5
-20°	969.5	1209.6	1457.7	1755.6	2082.5	2343.0	2488.9	3218.6	4481.5	5502.6	6050.8



REPORT NUMBER: P731701 (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°	946.8	1185.2	1426.2	1718.7	2049.6	2334.8	2523.6	2929.5	3918.6	5313.3	5903.6
-25°	920.2	1154.4	1393.8	1679.0	2003.9	2319.1	2542.7	2663.1	3453.4	4671.7	5669.8
-27.5°	889.6	1117.6	1356.9	1625.9	1944.2	2272.5	2511.7	2670.6	3075.1	3938.1	5314.5
-30°	853.3	1075.2	1309.2	1564.4	1871.0	2184.4	2458.6	2660.9	2779.1	3437.5	4544.0
-32.5°	812.3	1026.3	1254.8	1505.4	1788.5	2089.6	2379.5	2598.3	2760.3	2975.9	3818.6
-35°	773.2	976.3	1194.6	1439.0	1699.9	1982.8	2254.9	2513.0	2716.1	2855.0	3197.6
-37.5°	738.6	921.9	1131.5	1366.8	1618.1	1860.2	2120.2	2386.2	2619.1	2811.1	2932.3
-40°	699.1	863.1	1066.5	1288.9	1512.7	1736.3	1979.1	2233.1	2489.7	2700.5	2885.4
-42.5°	654.8	813.7	995.7	1198.3	1403.9	1615.0	1831.2	2071.8	2313.6	2554.0	2749.0
-45°	605.7	758.5	920.3	1102.3	1288.9	1488.0	1692.9	1900.9	2129.6	2356.4	2569.8
-47.5°	550.4	697.2	851.4	1000.1	1173.3	1356.1	1547.3	1743.4	1939.2	2147.6	2353.6
-50°	492.7	629.0	771.3	907.4	1055.5	1221.9	1397.5	1580.0	1764.7	1939.5	2120.8
-52.5°	439.2	554.7	684.9	815.4	945.4	1086.9	1245.6	1410.4	1581.3	1751.5	1904.8
-55°	381.5	485.3	593.5	716.7	840.9	963.3	1092.2	1241.3	1386.5	1543.0	1693.7
-57.5°	338.4	414.7	509.6	612.0	728.3	846.6	960.7	1073.1	1199.6	1330.5	1463.4
-60°	304.0	357.5	430.0	517.3	608.9	718.1	830.2	934.0	1029.5	1127.0	1247.4
-62.5°	272.1	316.1	366.5	427.3	506.9	588.0	684.5	783.5	876.4	965.5	1055.1
-65°	256.6	279.7	317.8	363.1	408.7	477.9	551.8	627.5	712.7	794.5	877.8
-67.5°	240.4	262.3	283.3	308.1	349.1	389.5	429.4	496.1	562.7	622.9	683.4
-70°	227.8	245.0	264.0	282.5	301.0	324.7	361.1	398.4	434.5	474.3	525.2
-72.5°	215.6	230.9	246.2	261.1	277.9	295.0	312.4	330.6	357.1	387.9	415.7
-75°	203.0	216.4	229.8	243.2	257.1	271.2	285.9	302.0	318.5	335.0	349.8
-77.5°	190.2	202.8	214.2	225.5	237.4	250.0	263.0	276.2	289.7	303.4	315.0
-80°	177.1	189.0	199.1	209.0	219.1	229.5	240.7	252.1	263.4	274.9	284.9
-82.5°	163.8	173.9	182.9	191.8	200.6	209.2	218.9	228.8	238.7	248.5	257.0
-85°	150.9	158.6	166.4	174.1	181.7	189.3	198.0	206.6	214.9	223.2	230.5
-87.5°	141.3	148.4	154.9	161.4	167.5	173.6	181.1	188.5	195.0	201.5	207.5
-90°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	1.8	1.2	1.2



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	197.6	201.2	204.8	207.9	210.9	215.2	219.4	225.5	231.5	238.8	246.0
87.5°	2.2	2.2	2.2	1.7	1.2	1.2	1.2	1.2	1.2	1.8	2.4
85°	2.4	2.4	2.4	2.7	3.1	3.2	3.3	3.4	3.4	3.5	3.6
82.5°	3.0	3.0	3.1	3.4	3.6	3.6	3.6	3.6	3.6	4.1	4.7
80°	3.9	4.0	4.2	4.3	4.3	4.1	3.7	3.6	3.6	4.2	4.8
77.5°	4.9	5.0	4.9	4.6	4.2	3.9	3.6	3.6	3.6	3.7	3.7
75°	6.0	6.1	6.4	6.8	7.3	7.4	7.0	7.1	7.5	7.4	7.0
72.5°	13.4	13.7	13.7	15.3	16.8	17.4	17.8	19.0	20.3	22.2	24.4
70°	26.0	28.7	29.8	29.9	28.7	28.0	27.4	27.2	27.7	29.0	30.6
67.5°	37.5	38.6	38.2	37.7	35.4	32.7	29.7	28.1	28.7	30.1	32.0
65°	42.4	39.1	36.7	35.7	33.7	30.3	25.7	22.6	21.9	21.4	21.2
62.5°	38.1	32.1	29.3	27.7	24.7	21.9	17.7	14.4	13.1	12.3	12.1
60°	33.2	25.8	21.2	19.1	15.9	12.4	10.2	7.8	7.0	6.5	6.7
57.5°	28.9	21.4	16.1	15.1	12.2	9.6	7.7	5.7	5.1	4.8	5.0
55°	29.8	26.0	21.7	19.5	16.2	14.7	13.0	11.8	10.7	10.9	11.6
52.5°	42.0	45.2	39.8	38.4	47.7	47.8	39.5	52.4	60.2	66.2	67.9
50°	108.5	107.8	143.3	137.3	170.0	196.8	197.8	214.1	245.1	266.3	277.8
47.5°	288.2	320.6	361.9	405.2	439.2	481.5	524.4	556.4	564.2	565.1	570.7
45°	542.6	588.8	651.0	696.5	760.7	800.3	833.1	862.8	931.5	994.8	1068.4
42.5°	757.7	808.2	872.6	965.2	1032.8	1213.2	1489.3	1557.1	1566.9	1623.1	1704.9
40°	927.5	993.7	1136.8	1339.7	1772.2	2160.0	2229.9	2288.2	2313.8	2282.7	2338.3
37.5°	1133.1	1288.2	1610.4	2165.4	2370.4	2476.0	2550.2	2594.9	2649.1	2699.2	2726.4
35°	1474.4	1906.6	2189.0	2485.5	2619.6	2673.0	2727.6	2782.5	2825.1	2880.6	2924.9
32.5°	2175.0	2656.2	2684.6	2757.8	2827.7	2897.3	2948.2	3000.5	3046.0	3117.8	3268.5
30°	2880.8	2985.7	3011.4	3018.0	3081.7	3165.1	3209.3	3315.0	3457.7	3621.3	3969.6
27.5°	3256.5	3328.7	3343.7	3350.9	3380.6	3479.2	3662.1	3806.4	4148.8	4564.4	5459.4
25°	3714.0	3765.3	3819.7	3817.4	3862.5	4037.3	4394.9	4699.4	5856.3	6939.0	9271.5
22.5°	4150.4	4305.7	4383.1	4486.7	4639.9	4957.9	5585.3	7347.6	10294.2	14054.4	18735.7
20°	4453.7	4662.6	4870.8	5160.1	5530.3	6190.2	8150.2	13423.8	19721.6	28860.1	36524.8
17.5°	4759.7	4995.7	5363.9	5810.2	6431.9	8647.9	14394.0	23348.4	36281.6	52505.2	66739.9
15°	5158.7	5438.7	5931.7	6568.8	8306.1	13036.4	22622.0	38915.3	58576.2	81382.1	105305.3
12.5°	5430.4	5816.2	6402.3	7225.1	10076.8	18936.2	34369.8	56706.0	83766.2	112502.2	150636.3
10°	5631.2	6092.6	6888.6	8594.6	13765.3	25448.2	43994.5	71869.9	108968.5	152764.4	196362.9
7.5°	5799.8	6421.3	7420.6	9570.3	16947.8	31677.0	55317.9	89199.1	133093.0	185864.8	236566.3
5°	5951.3	6775.2	7932.5	10621.9	19799.3	36186.9	62848.1	102140.8	152970.4	210606.0	266583.9
2.5°	6151.6	7106.6	8264.6	10911.3	20940.8	38685.7	68814.9	112591.1	167162.6	227791.4	288695.5
0°	6430.0	7322.1	8467.5	11096.4	20585.7	40251.4	72471.7	117835.7	173382.1	235009.5	298887.7
-2.5°	6648.9	7446.2	8585.7	10947.2	20412.1	39515.1	70821.4	114778.5	167293.0	226843.0	290562.4
-5°	6790.2	7535.3	8637.6	11003.0	19974.1	36700.7	65946.9	106768.4	154893.4	208648.6	267569.9
-7.5°	6873.0	7567.9	8583.8	10652.2	17984.7	32866.7	57270.5	92004.0	135176.0	184918.1	233612.5
-10°	6922.5	7546.8	8471.4	10155.8	15127.6	26710.1	45213.7	74651.3	112057.4	152139.0	191969.3
-12.5°	6941.2	7502.2	8312.9	9445.0	12128.9	20910.7	35991.8	56883.7	84650.6	117529.7	152626.7
-15°	6904.8	7437.4	8159.7	9139.9	10925.4	15675.7	25114.4	39323.4	60019.9	85123.0	110556.1
-17.5°	6769.2	7370.5	7932.9	8685.5	9736.4	11976.6	17721.3	26841.5	39462.7	56055.6	70729.0
-20°	6589.5	7244.4	7725.8	8390.9	9216.2	10241.5	12083.8	17649.8	24726.9	34333.1	43910.1



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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°	6429.5	7028.7	7634.0	8090.5	8736.8	9410.8	10242.7	11835.0	15391.1	20187.1	26258.3
-25°	6281.9	6830.4	7451.6	7945.3	8309.9	8786.3	9307.5	9865.3	11073.3	12205.8	15134.7
-27.5°	6074.1	6642.3	7181.0	7708.0	8059.3	8275.5	8630.7	8977.4	9483.3	9933.1	10793.3
-30°	5832.4	6388.3	6900.9	7379.6	7739.6	7967.0	8143.2	8381.5	8649.2	8921.6	9291.2
-32.5°	4970.9	6089.9	6567.0	6999.3	7370.6	7637.9	7824.4	7981.0	8135.5	8309.9	8504.7
-35°	4027.2	5132.3	6209.1	6546.2	6897.1	7251.1	7527.6	7675.3	7809.8	7931.9	8051.1
-37.5°	3274.3	4054.0	5020.5	5939.0	6365.3	6722.8	7055.1	7313.3	7501.8	7616.3	7723.4
-40°	2979.6	3177.1	3920.4	4676.9	5404.2	6064.6	6402.6	6784.1	7094.2	7262.3	7378.9
-42.5°	2909.1	2999.8	3069.2	3548.5	4127.1	4683.9	5300.2	5911.8	6391.8	6711.8	6949.8
-45°	2754.8	2885.4	2988.9	3031.6	3057.8	3463.8	3941.0	4408.2	4947.1	5503.9	6009.5
-47.5°	2536.2	2705.9	2822.8	2914.3	2969.1	2986.3	3019.8	3124.6	3516.0	3927.5	4319.3
-50°	2292.3	2447.9	2588.0	2715.3	2791.1	2852.5	2911.3	2967.6	3015.3	3075.5	3129.8
-52.5°	2046.7	2189.3	2315.3	2427.1	2527.4	2624.3	2717.5	2787.1	2855.1	2928.1	2987.5
-55°	1828.0	1943.7	2049.2	2147.3	2237.8	2319.7	2403.9	2493.9	2587.0	2678.0	2748.7
-57.5°	1594.2	1704.8	1804.7	1887.8	1960.7	2021.8	2099.2	2183.4	2271.0	2352.1	2413.7
-60°	1358.4	1456.1	1547.6	1628.1	1697.2	1754.1	1825.6	1896.9	1975.0	2044.5	2099.3
-62.5°	1134.3	1216.7	1294.5	1364.9	1427.8	1485.4	1548.8	1612.5	1686.0	1750.6	1803.0
-65°	948.2	1012.1	1065.3	1115.2	1154.1	1204.0	1265.4	1324.1	1388.1	1444.0	1490.7
-67.5°	746.6	805.5	854.2	897.8	932.0	967.7	1013.1	1059.9	1109.5	1154.0	1193.1
-70°	570.4	610.1	641.7	674.2	709.3	743.3	779.6	819.7	861.3	898.0	930.3
-72.5°	440.0	459.6	478.1	504.6	528.1	551.8	574.8	603.5	634.4	662.2	687.4
-75°	363.5	375.6	389.8	402.3	413.2	425.9	438.6	457.2	477.5	496.7	514.7
-77.5°	326.2	334.9	342.1	347.9	353.0	360.6	368.8	382.7	397.7	413.8	430.0
-80°	294.4	301.2	307.2	312.3	316.9	323.3	329.8	342.0	354.7	368.4	382.0
-82.5°	265.2	270.4	275.3	279.9	284.4	289.8	295.2	305.9	316.9	328.3	339.6
-85°	237.6	242.1	246.3	250.1	253.8	258.5	263.1	272.2	281.3	291.0	300.7
-87.5°	213.4	217.5	221.6	225.0	228.5	232.5	236.5	244.5	252.5	260.6	268.7
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2



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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°	246.7	247.3	247.9	248.5	247.9	247.3	246.7	246.0	238.8	231.5	225.5
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	1.8	1.2	1.2
85°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.4	3.4
82.5°	4.2	3.6	4.2	4.8	4.2	3.6	4.2	4.7	4.1	3.6	3.6
80°	4.2	3.6	4.2	4.8	4.2	3.6	4.2	4.8	4.2	3.6	3.6
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.7	3.7	3.6	3.6
75°	6.0	4.9	4.2	3.6	4.2	4.9	6.0	7.0	7.4	7.5	7.1
72.5°	25.0	25.0	25.4	25.5	25.4	25.0	25.0	24.4	22.2	20.3	19.0
70°	31.6	32.4	32.6	32.7	32.6	32.4	31.6	30.6	29.0	27.7	27.2
67.5°	32.2	31.6	31.0	30.3	31.0	31.6	32.2	32.0	30.1	28.7	28.1
65°	20.2	18.9	16.7	14.5	16.7	18.9	20.2	21.2	21.4	21.9	22.6
62.5°	11.7	11.2	11.0	10.9	11.0	11.2	11.7	12.1	12.3	13.1	14.4
60°	6.9	7.3	7.3	7.3	7.3	7.3	6.9	6.7	6.5	7.0	7.8
57.5°	5.3	5.9	6.6	7.3	6.6	5.9	5.3	5.0	4.8	5.1	5.7
55°	12.3	13.7	14.4	14.5	14.4	13.7	12.3	11.6	10.9	10.7	11.8
52.5°	65.5	62.1	59.3	57.0	59.3	62.1	65.5	67.9	66.2	60.2	52.4
50°	282.9	290.3	293.7	293.3	293.7	290.3	282.9	277.8	266.3	245.1	214.1
47.5°	582.7	586.8	583.5	574.5	583.5	586.8	582.7	570.7	565.1	564.2	556.4
45°	1158.5	1108.3	1019.2	940.6	1019.2	1108.3	1158.5	1068.4	994.8	931.5	862.8
42.5°	1813.5	1873.6	1918.6	1939.3	1918.6	1873.6	1813.5	1704.9	1623.1	1566.9	1557.1
40°	2275.8	2211.6	2198.6	2208.4	2198.6	2211.6	2275.8	2338.3	2282.7	2313.8	2288.2
37.5°	2733.3	2791.6	2834.8	2764.7	2834.8	2791.6	2733.3	2726.4	2699.2	2649.1	2594.9
35°	3028.0	3235.4	3478.8	3552.6	3478.8	3235.4	3028.0	2924.9	2880.6	2825.1	2782.5
32.5°	3520.9	3739.8	3834.7	3858.0	3834.7	3739.8	3520.9	3268.5	3117.8	3046.0	3000.5
30°	4305.1	4523.9	4563.2	4594.9	4563.2	4523.9	4305.1	3969.6	3621.3	3457.7	3315.0
27.5°	6053.3	6542.6	6658.6	6740.3	6658.6	6542.6	6053.3	5459.4	4564.4	4148.8	3806.4
25°	11112.9	12385.7	13217.0	13136.4	13217.0	12385.7	11112.9	9271.5	6939.0	5856.3	4699.4
22.5°	23426.0	25924.4	27257.5	27233.9	27257.5	25924.4	23426.0	18735.7	14054.4	10294.2	7347.6
20°	47444.7	54837.2	58838.5	58382.7	58838.5	54837.2	47444.7	36524.8	28860.1	19721.6	13423.8
17.5°	82728.4	97006.4	106981.4	107390.1	106981.4	97006.4	82728.4	66739.9	52505.2	36281.6	23348.4
15°	127922.7	149107.9	164063.2	164061.4	164063.2	149107.9	127922.7	105305.3	81382.1	58576.2	38915.3
12.5°	182926.9	208250.0	225361.4	227927.5	225361.4	208250.0	182926.9	150636.3	112502.2	83766.2	56706.0
10°	235716.3	264399.9	290268.4	297390.8	290268.4	264399.9	235716.3	196362.9	152764.4	108968.5	71869.9
7.5°	280398.3	325519.7	349083.5	356505.0	349083.5	325519.7	280398.3	236566.3	185864.8	133093.0	89199.1
5°	324256.5	363312.9	383096.7	388824.1	383096.7	363312.9	324256.5	266583.9	210606.0	152970.4	102140.8
2.5°	347327.3	383177.1	410983.5	427109.6	410983.5	383177.1	347327.3	288695.5	227791.4	167162.6	112591.1
0°	356007.5	390067.7	427358.7	452758.1	427358.7	390067.7	356007.5	298887.7	235009.5	173382.1	117835.7
-2.5°	347325.4	380282.8	407763.8	421143.2	407763.8	380282.8	347325.4	290562.4	226843.0	167293.0	114778.5
-5°	321007.0	359772.3	379780.6	384846.1	379780.6	359772.3	321007.0	267569.9	208648.6	154893.4	106768.4
-7.5°	278972.8	316255.3	340786.8	346312.2	340786.8	316255.3	278972.8	233612.5	184918.1	135176.0	92004.0
-10°	232176.5	264022.0	280571.7	284664.2	280571.7	264022.0	232176.5	191969.3	152139.0	112057.4	74651.3
-12.5°	180406.3	203760.4	220654.1	222947.1	220654.1	203760.4	180406.3	152626.7	117529.7	84650.6	56883.7
-15°	134284.6	149729.9	163349.6	164914.7	163349.6	149729.9	134284.6	110556.1	85123.0	60019.9	39323.4
-17.5°	89963.7	102751.1	110371.7	112570.5	110371.7	102751.1	89963.7	70729.0	56055.6	39462.7	26841.5
-20°	53903.1	63053.4	68132.0	68322.8	68132.0	63053.4	53903.1	43910.1	34333.1	24726.9	17649.8



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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°	31272.0	36363.3	39050.3	38998.2	39050.3	36363.3	31272.0	26258.3	20187.1	15391.1	11835.0
-25°	18035.2	20264.4	21154.0	21185.7	21154.0	20264.4	18035.2	15134.7	12205.8	11073.3	9865.3
-27.5°	11483.7	11995.5	12200.5	12233.4	12200.5	11995.5	11483.7	10793.3	9933.1	9483.3	8977.4
-30°	9628.1	9927.6	10065.2	10103.8	10065.2	9927.6	9628.1	9291.2	8921.6	8649.2	8381.5
-32.5°	8687.6	8852.5	8963.8	8947.5	8963.8	8852.5	8687.6	8504.7	8309.9	8135.5	7981.0
-35°	8167.5	8269.6	8332.1	8362.0	8332.1	8269.6	8167.5	8051.1	7931.9	7809.8	7675.3
-37.5°	7830.3	7921.6	7980.7	7998.4	7980.7	7921.6	7830.3	7723.4	7616.3	7501.8	7313.3
-40°	7479.3	7555.4	7604.0	7621.5	7604.0	7555.4	7479.3	7378.9	7262.3	7094.2	6784.1
-42.5°	7100.7	7182.3	7221.1	7221.5	7221.1	7182.3	7100.7	6949.8	6711.8	6391.8	5911.8
-45°	6424.2	6675.4	6801.2	6807.0	6801.2	6675.4	6424.2	6009.5	5503.9	4947.1	4408.2
-47.5°	4675.7	4924.0	5123.6	5271.3	5123.6	4924.0	4675.7	4319.3	3927.5	3516.0	3124.6
-50°	3177.2	3193.6	3194.7	3180.5	3194.7	3193.6	3177.2	3129.8	3075.5	3015.3	2967.6
-52.5°	3033.9	3050.8	3063.3	3070.2	3063.3	3050.8	3033.9	2987.5	2928.1	2855.1	2787.1
-55°	2801.0	2822.4	2831.2	2827.7	2831.2	2822.4	2801.0	2748.7	2678.0	2587.0	2493.9
-57.5°	2455.0	2469.2	2475.7	2473.8	2475.7	2469.2	2455.0	2413.7	2352.1	2271.0	2183.4
-60°	2132.9	2143.4	2149.4	2149.0	2149.4	2143.4	2132.9	2099.3	2044.5	1975.0	1896.9
-62.5°	1832.4	1841.9	1848.7	1849.6	1848.7	1841.9	1832.4	1803.0	1750.6	1686.0	1612.5
-65°	1514.1	1521.1	1525.7	1524.8	1525.7	1521.1	1514.1	1490.7	1444.0	1388.1	1324.1
-67.5°	1210.3	1215.3	1219.4	1219.3	1219.4	1215.3	1210.3	1193.1	1154.0	1109.5	1059.9
-70°	940.5	941.0	943.0	941.8	943.0	941.0	940.5	930.3	898.0	861.3	819.7
-72.5°	693.2	692.6	692.2	689.7	692.2	692.6	693.2	687.4	662.2	634.4	603.5
-75°	516.4	514.6	512.9	510.3	512.9	514.6	516.4	514.7	496.7	477.5	457.2
-77.5°	431.8	431.8	428.9	425.4	428.9	431.8	431.8	430.0	413.8	397.7	382.7
-80°	382.8	382.4	381.1	379.4	381.1	382.4	382.8	382.0	368.4	354.7	342.0
-82.5°	340.8	341.4	341.1	340.6	341.1	341.4	340.8	339.6	328.3	316.9	305.9
-85°	301.8	302.7	302.3	301.8	302.3	302.7	301.8	300.7	291.0	281.3	272.2
-87.5°	269.5	270.2	270.3	270.3	270.3	270.2	269.5	268.7	260.6	252.5	244.5
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	219.4	215.2	210.9	207.9	204.8	201.2	197.6	192.2	186.7	181.2	175.7
87.5°	1.2	1.2	1.2	1.7	2.2	2.2	2.2	2.2	2.1	2.2	2.4
85°	3.3	3.2	3.1	2.7	2.4	2.4	2.4	2.8	3.0	3.0	2.9
82.5°	3.6	3.6	3.6	3.4	3.1	3.0	3.0	3.3	3.6	3.6	3.6
80°	3.7	4.1	4.3	4.3	4.2	4.0	3.9	3.8	3.7	3.6	3.7
77.5°	3.6	3.9	4.2	4.6	4.9	5.0	4.9	4.7	4.7	5.0	5.0
75°	7.0	7.4	7.3	6.8	6.4	6.1	6.0	5.8	5.7	5.9	6.1
72.5°	17.8	17.4	16.8	15.3	13.7	13.7	13.4	12.1	10.1	7.6	6.1
70°	27.4	28.0	28.7	29.9	29.8	28.7	26.0	23.0	19.7	16.3	12.5
67.5°	29.7	32.7	35.4	37.7	38.2	38.6	37.5	35.7	35.2	32.1	23.2
65°	25.7	30.3	33.7	35.7	36.7	39.1	42.4	42.9	46.5	47.0	38.5
62.5°	17.7	21.9	24.7	27.7	29.3	32.1	38.1	44.3	53.2	56.9	49.3
60°	10.2	12.4	15.9	19.1	21.2	25.8	33.2	43.1	54.8	56.2	54.3
57.5°	7.7	9.6	12.2	15.1	16.1	21.4	28.9	40.5	52.4	54.6	51.3
55°	13.0	14.7	16.2	19.5	21.7	26.0	29.8	39.4	50.9	55.6	56.0
52.5°	39.5	47.8	47.7	38.4	39.8	45.2	42.0	49.6	57.3	63.6	66.1
50°	197.8	196.8	170.0	137.3	143.3	107.8	108.5	95.8	85.1	88.2	84.8
47.5°	524.4	481.5	439.2	405.2	361.9	320.6	288.2	227.6	209.4	148.4	146.9
45°	833.1	800.3	760.7	696.5	651.0	588.8	542.6	482.1	409.9	348.9	248.5
42.5°	1489.3	1213.2	1032.8	965.2	872.6	808.2	757.7	705.5	651.8	575.1	481.8
40°	2229.9	2160.0	1772.2	1339.7	1136.8	993.7	927.5	881.9	854.2	795.3	706.4
37.5°	2550.2	2476.0	2370.4	2165.4	1610.4	1288.2	1133.1	1044.5	1037.5	983.0	904.1
35°	2727.6	2673.0	2619.6	2485.5	2189.0	1906.6	1474.4	1267.5	1167.3	1143.8	1079.2
32.5°	2948.2	2897.3	2827.7	2757.8	2684.6	2656.2	2175.0	1668.8	1329.8	1263.5	1206.4
30°	3209.3	3165.1	3081.7	3018.0	3011.4	2985.7	2880.8	2264.1	1715.8	1367.5	1328.0
27.5°	3662.1	3479.2	3380.6	3350.9	3343.7	3328.7	3256.5	2965.9	2173.1	1657.7	1431.8
25°	4394.9	4037.3	3862.5	3817.4	3819.7	3765.3	3714.0	3473.8	2882.9	2008.9	1539.2
22.5°	5585.3	4957.9	4639.9	4486.7	4383.1	4305.7	4150.4	3926.2	3619.4	2512.5	1839.3
20°	8150.2	6190.2	5530.3	5160.1	4870.8	4662.6	4453.7	4247.5	3902.4	3124.1	2155.9
17.5°	14394.0	8647.9	6431.9	5810.2	5363.9	4995.7	4759.7	4496.1	4156.3	3608.4	2422.9
15°	22622.0	13036.4	8306.1	6568.8	5931.7	5438.7	5158.7	4822.4	4463.5	3909.3	2814.6
12.5°	34369.8	18936.2	10076.8	7225.1	6402.3	5816.2	5430.4	5154.0	4766.1	4223.3	3289.4
10°	43994.5	25448.2	13765.3	8594.6	6888.6	6092.6	5631.2	5333.1	4981.6	4510.5	3733.0
7.5°	55317.9	31677.0	16947.8	9570.3	7420.6	6421.3	5799.8	5459.4	5123.8	4623.3	3975.7
5°	62848.1	36186.9	19799.3	10621.9	7932.5	6775.2	5951.3	5550.4	5194.9	4659.1	4139.0
2.5°	68814.9	38685.7	20940.8	10911.3	8264.6	7106.6	6151.6	5663.4	5245.4	4702.2	4263.5
0°	72471.7	40251.4	20585.7	11096.4	8467.5	7322.1	6430.0	5788.8	5267.6	4729.5	4330.7
-2.5°	70821.4	39515.1	20412.1	10947.2	8585.7	7446.2	6648.9	6070.3	5389.9	4769.2	4359.5
-5°	65946.9	36700.7	19974.1	11003.0	8637.6	7535.3	6790.2	6249.1	5502.8	4816.6	4332.6
-7.5°	57270.5	32866.7	17984.7	10652.2	8583.8	7567.9	6873.0	6339.1	5644.5	4965.1	4301.8
-10°	45213.7	26710.1	15127.6	10155.8	8471.4	7546.8	6922.5	6346.5	5698.6	5072.4	4197.4
-12.5°	35991.8	20910.7	12128.9	9445.0	8312.9	7502.2	6941.2	6300.6	5718.9	5171.3	4072.0
-15°	25114.4	15675.7	10925.4	9139.9	8159.7	7437.4	6904.8	6214.2	5697.5	5215.4	3839.4
-17.5°	17721.3	11976.6	9736.4	8685.5	7932.9	7370.5	6769.2	6148.5	5631.9	4978.3	3480.9
-20°	12083.8	10241.5	9216.2	8390.9	7725.8	7244.4	6589.5	6050.8	5502.6	4481.5	3218.6



REPORT NUMBER: P731701 (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°	10242.7	9410.8	8736.8	8090.5	7634.0	7028.7	6429.5	5903.6	5313.3	3918.6	2929.5
-25°	9307.5	8786.3	8309.9	7945.3	7451.6	6830.4	6281.9	5669.8	4671.7	3453.4	2663.1
-27.5°	8630.7	8275.5	8059.3	7708.0	7181.0	6642.3	6074.1	5314.5	3938.1	3075.1	2670.6
-30°	8143.2	7967.0	7739.6	7379.6	6900.9	6388.3	5832.4	4544.0	3437.5	2779.1	2660.9
-32.5°	7824.4	7637.9	7370.6	6999.3	6567.0	6089.9	4970.9	3818.6	2975.9	2760.3	2598.3
-35°	7527.6	7251.1	6897.1	6546.2	6209.1	5132.3	4027.2	3197.6	2855.0	2716.1	2513.0
-37.5°	7055.1	6722.8	6365.3	5939.0	5020.5	4054.0	3274.3	2932.3	2811.1	2619.1	2386.2
-40°	6402.6	6064.6	5404.2	4676.9	3920.4	3177.1	2979.6	2885.4	2700.5	2489.7	2233.1
-42.5°	5300.2	4683.9	4127.1	3548.5	3069.2	2999.8	2909.1	2749.0	2554.0	2313.6	2071.8
-45°	3941.0	3463.8	3057.8	3031.6	2988.9	2885.4	2754.8	2569.8	2356.4	2129.6	1900.9
-47.5°	3019.8	2986.3	2969.1	2914.3	2822.8	2705.9	2536.2	2353.6	2147.6	1939.2	1743.4
-50°	2911.3	2852.5	2791.1	2715.3	2588.0	2447.9	2292.3	2120.8	1939.5	1764.7	1580.0
-52.5°	2717.5	2624.3	2527.4	2427.1	2315.3	2189.3	2046.7	1904.8	1751.5	1581.3	1410.4
-55°	2403.9	2319.7	2237.8	2147.3	2049.2	1943.7	1828.0	1693.7	1543.0	1386.5	1241.3
-57.5°	2099.2	2021.8	1960.7	1887.8	1804.7	1704.8	1594.2	1463.4	1330.5	1199.6	1073.1
-60°	1825.6	1754.1	1697.2	1628.1	1547.6	1456.1	1358.4	1247.4	1127.0	1029.5	934.0
-62.5°	1548.8	1485.4	1427.8	1364.9	1294.5	1216.7	1134.3	1055.1	965.5	876.4	783.5
-65°	1265.4	1204.0	1154.1	1115.2	1065.3	1012.1	948.2	877.8	794.5	712.7	627.5
-67.5°	1013.1	967.7	932.0	897.8	854.2	805.5	746.6	683.4	622.9	562.7	496.1
-70°	779.6	743.3	709.3	674.2	641.7	610.1	570.4	525.2	474.3	434.5	398.4
-72.5°	574.8	551.8	528.1	504.6	478.1	459.6	440.0	415.7	387.9	357.1	330.6
-75°	438.6	425.9	413.2	402.3	389.8	375.6	363.5	349.8	335.0	318.5	302.0
-77.5°	368.8	360.6	353.0	347.9	342.1	334.9	326.2	315.0	303.4	289.7	276.2
-80°	329.8	323.3	316.9	312.3	307.2	301.2	294.4	284.9	274.9	263.4	252.1
-82.5°	295.2	289.8	284.4	279.9	275.3	270.4	265.2	257.0	248.5	238.7	228.8
-85°	263.1	258.5	253.8	250.1	246.3	242.1	237.6	230.5	223.2	214.9	206.6
-87.5°	236.5	232.5	228.5	225.0	221.6	217.5	213.4	207.5	201.5	195.0	188.5
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	2.4





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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°	168.5	161.2	155.8	150.3	144.3	138.2	131.5	124.8	116.4	107.9	97.6
87.5°	2.4	2.4	2.8	3.1	3.0	3.0	3.0	2.9	3.1	3.2	3.5
85°	2.8	2.8	3.1	3.6	3.6	3.6	3.5	3.4	3.8	4.0	4.1
82.5°	3.6	3.5	3.5	3.6	4.0	4.2	4.1	4.0	4.4	4.8	4.6
80°	4.1	4.3	4.1	4.0	4.4	4.8	4.6	4.5	4.9	5.3	5.2
77.5°	5.0	5.0	4.8	4.6	4.7	4.9	5.0	5.1	5.4	5.8	5.8
75°	6.1	5.7	5.1	5.0	5.1	5.0	5.4	5.7	6.2	6.3	6.4
72.5°	6.1	6.1	5.5	5.4	6.1	6.4	6.4	6.5	7.0	7.3	7.2
70°	9.2	7.2	6.7	6.9	7.4	7.9	8.0	8.1	7.9	8.4	8.4
67.5°	14.6	12.1	10.0	8.8	8.9	9.4	9.6	10.1	10.1	9.6	9.7
65°	28.2	20.4	14.3	12.6	11.2	11.1	11.3	12.3	12.4	12.1	11.1
62.5°	40.5	31.4	24.0	18.1	15.1	15.0	13.4	14.9	14.8	14.8	13.4
60°	51.5	42.0	34.8	28.6	23.1	20.3	19.2	17.7	18.1	17.7	16.3
57.5°	51.8	51.1	47.8	40.5	35.4	29.6	26.5	24.0	21.8	21.5	19.2
55°	52.7	53.4	59.7	55.4	50.1	42.4	37.0	32.5	27.3	25.9	22.4
52.5°	63.0	64.7	69.8	73.2	69.3	58.5	52.8	41.7	37.6	30.7	26.9
50°	80.8	87.1	87.8	93.9	90.8	83.7	70.0	58.7	48.8	37.5	31.7
47.5°	126.1	131.8	120.6	123.6	118.0	112.8	96.3	79.1	61.0	48.8	36.7
45°	239.7	206.2	186.8	170.7	156.1	150.0	128.0	101.7	81.8	60.7	41.9
42.5°	388.5	338.3	299.2	227.2	218.9	193.8	166.1	136.3	104.3	73.1	50.5
40°	598.4	502.4	436.0	359.4	296.3	243.4	215.2	175.3	128.2	88.7	61.7
37.5°	796.1	673.5	589.0	495.9	393.7	324.5	269.2	217.0	156.8	110.7	73.1
35°	955.0	833.3	718.9	622.7	519.2	405.7	327.2	263.8	193.5	133.6	84.7
32.5°	1099.1	969.7	840.0	731.7	619.3	485.0	394.9	310.1	230.4	157.2	96.9
30°	1226.8	1103.1	955.4	821.3	701.8	568.0	458.9	353.4	267.5	181.6	111.0
27.5°	1366.2	1241.4	1072.5	918.5	774.4	640.1	510.0	393.7	304.4	206.3	129.5
25°	1497.2	1370.3	1202.9	1027.6	847.7	697.7	557.7	431.3	339.0	231.4	147.0
22.5°	1585.0	1478.8	1322.6	1143.1	928.6	753.7	604.3	472.2	362.5	254.3	163.4
20°	1655.8	1574.2	1428.4	1230.5	1016.5	820.1	650.8	505.2	384.3	275.0	178.7
17.5°	1756.7	1651.3	1503.5	1304.0	1097.2	887.0	695.7	536.2	404.3	293.5	192.9
15°	2004.9	1718.8	1576.5	1373.0	1159.4	944.0	739.4	565.5	422.5	309.9	205.6
12.5°	2262.3	1784.4	1647.1	1432.8	1205.3	992.8	781.4	592.9	438.8	326.6	217.0
10°	2503.9	1841.5	1712.8	1487.4	1245.2	1033.8	820.9	622.8	463.1	343.7	227.2
7.5°	2708.3	1893.6	1774.7	1536.7	1281.2	1070.8	860.8	660.2	487.6	359.4	236.2
5°	2880.8	1941.4	1834.7	1597.6	1324.0	1105.0	896.0	694.8	510.6	373.6	244.0
2.5°	2998.4	1984.7	1888.7	1654.3	1361.3	1133.4	926.2	726.2	531.6	386.0	250.5
0°	3076.2	2024.1	1934.5	1703.0	1392.7	1156.3	951.5	753.9	550.3	396.3	255.7
-2.5°	3100.7	2065.2	1972.1	1744.3	1442.8	1186.8	970.0	766.8	563.0	408.0	264.4
-5°	3083.2	2103.2	2002.7	1777.1	1484.7	1211.3	983.7	775.6	572.9	417.3	271.6
-7.5°	3030.7	2145.8	2028.2	1801.6	1517.0	1229.0	992.3	780.3	579.9	424.1	277.3
-10°	2940.8	2188.5	2048.7	1810.8	1522.0	1238.1	996.3	780.9	584.3	428.3	281.2
-12.5°	2827.7	2227.6	2061.4	1809.1	1516.0	1240.0	999.8	779.2	585.6	429.9	283.3
-15°	2683.2	2277.0	2077.7	1797.9	1502.6	1236.2	996.7	773.2	581.9	427.4	283.4
-17.5°	2493.7	2323.1	2088.1	1783.4	1484.2	1226.7	986.6	761.7	575.0	420.4	280.9
-20°	2488.9	2343.0	2082.5	1755.6	1457.7	1209.6	969.5	744.7	564.8	411.0	276.2



REPORT NUMBER: P731701 (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°	2523.6	2334.8	2049.6	1718.7	1426.2	1185.2	946.8	722.4	551.3	399.1	269.7
-25°	2542.7	2319.1	2003.9	1679.0	1393.8	1154.4	920.2	698.9	534.5	384.7	261.5
-27.5°	2511.7	2272.5	1944.2	1625.9	1356.9	1117.6	889.6	682.1	519.3	367.9	251.7
-30°	2458.6	2184.4	1871.0	1564.4	1309.2	1075.2	853.3	661.9	502.5	354.3	240.2
-32.5°	2379.5	2089.6	1788.5	1505.4	1254.8	1026.3	812.3	637.7	482.9	342.6	232.7
-35°	2254.9	1982.8	1699.9	1439.0	1194.6	976.3	773.2	609.6	460.6	327.9	226.2
-37.5°	2120.2	1860.2	1618.1	1366.8	1131.5	921.9	738.6	579.9	435.6	310.1	219.0
-40°	1979.1	1736.3	1512.7	1288.9	1066.5	863.1	699.1	546.4	411.2	289.3	210.2
-42.5°	1831.2	1615.0	1403.9	1198.3	995.7	813.7	654.8	507.6	382.1	273.7	199.9
-45°	1692.9	1488.0	1288.9	1102.3	920.3	758.5	605.7	464.9	349.6	260.1	192.2
-47.5°	1547.3	1356.1	1173.3	1000.1	851.4	697.2	550.4	425.2	314.7	244.6	189.1
-50°	1397.5	1221.9	1055.5	907.4	771.3	629.0	492.7	382.3	293.8	226.4	185.4
-52.5°	1245.6	1086.9	945.4	815.4	684.9	554.7	439.2	337.9	271.4	216.4	180.9
-55°	1092.2	963.3	840.9	716.7	593.5	485.3	381.5	309.8	247.5	209.7	176.0
-57.5°	960.7	846.6	728.3	612.0	509.6	414.7	338.4	280.2	235.5	202.5	172.6
-60°	830.2	718.1	608.9	517.3	430.0	357.5	304.0	255.7	226.5	195.2	168.5
-62.5°	684.5	588.0	506.9	427.3	366.5	316.1	272.1	243.5	216.7	189.4	163.7
-65°	551.8	477.9	408.7	363.1	317.8	279.7	256.6	230.5	207.8	183.1	158.7
-67.5°	429.4	389.5	349.1	308.1	283.3	262.3	240.4	219.7	199.0	176.2	153.5
-70°	361.1	324.7	301.0	282.5	264.0	245.0	227.8	209.7	190.0	169.5	147.9
-72.5°	312.4	295.0	277.9	261.1	246.2	230.9	215.6	199.3	181.1	162.5	142.1
-75°	285.9	271.2	257.1	243.2	229.8	216.4	203.0	188.2	171.8	155.1	135.8
-77.5°	263.0	250.0	237.4	225.5	214.2	202.8	190.2	176.8	162.1	146.9	129.1
-80°	240.7	229.5	219.1	209.0	199.1	189.0	177.1	165.3	152.0	138.4	122.2
-82.5°	218.9	209.2	200.6	191.8	182.9	173.9	163.8	153.7	141.7	129.6	115.5
-85°	198.0	189.3	181.7	174.1	166.4	158.6	150.9	143.0	132.8	122.5	109.7
-87.5°	181.1	173.6	167.5	161.4	154.9	148.4	141.3	134.0	124.6	115.3	103.7
-90°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.0



REPORT NUMBER: P731701 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	87.3	73.3	59.4	43.0	26.7	15.1	3.6
87.5°	3.9	4.0	4.0	3.9	3.8	3.9	3.6
85°	4.2	4.4	4.5	4.3	4.0	4.2	3.6
82.5°	4.6	4.8	4.9	4.6	4.3	4.5	3.6
80°	4.9	5.2	5.3	4.9	4.5	4.8	3.6
77.5°	5.6	5.8	5.8	5.2	4.8	5.1	3.6
75°	6.3	6.5	6.2	5.5	5.0	5.4	3.6
72.5°	7.1	7.2	6.9	5.8	5.3	5.7	3.6
70°	7.9	7.9	7.6	6.2	5.7	6.0	3.6
67.5°	9.4	8.6	8.3	6.9	6.0	6.3	3.6
65°	10.9	9.8	9.0	7.7	6.4	6.6	3.6
62.5°	12.6	11.4	9.8	8.4	6.8	6.9	3.6
60°	14.3	13.1	10.6	9.1	7.2	7.2	3.6
57.5°	17.0	14.8	12.2	9.9	8.0	7.6	3.6
55°	19.8	16.6	13.9	10.7	8.9	7.9	3.6
52.5°	22.7	18.6	15.7	11.5	9.7	8.2	3.6
50°	25.7	21.3	17.4	12.3	10.6	8.5	3.6
47.5°	28.8	24.1	19.2	13.2	11.5	8.9	3.6
45°	33.4	27.0	21.1	14.6	12.4	9.2	3.6
42.5°	38.0	30.1	23.0	16.0	13.4	9.5	3.6
40°	43.0	33.2	25.2	17.8	14.3	9.9	3.6
37.5°	48.5	36.3	27.6	19.8	15.3	10.2	3.6
35°	54.1	40.4	30.0	21.9	16.3	10.6	3.6
32.5°	61.1	44.8	32.5	23.9	17.3	10.9	3.6
30°	71.2	49.3	34.9	25.9	18.3	11.2	3.6
27.5°	81.1	53.7	38.1	27.9	19.3	11.5	3.6
25°	90.8	58.2	41.2	29.9	20.3	11.9	3.6
22.5°	100.3	62.6	44.3	31.9	21.2	12.2	3.6
20°	109.6	67.2	47.4	33.8	22.2	12.5	3.6
17.5°	118.1	71.6	50.3	35.7	23.2	12.8	3.6
15°	126.0	75.8	53.2	37.6	24.1	13.1	3.6
12.5°	133.3	79.7	55.9	39.4	25.1	13.4	3.6
10°	140.0	83.5	58.6	41.1	25.9	13.6	3.6
7.5°	146.0	86.9	61.1	42.8	26.8	13.9	3.6
5°	151.4	90.1	63.5	44.4	27.6	14.1	3.6
2.5°	156.1	93.1	65.8	45.9	28.4	14.3	3.6
0°	160.0	95.8	67.9	47.3	29.1	14.5	3.6
-2.5°	165.1	99.8	70.9	49.4	30.4	15.1	3.6
-5°	169.5	103.6	73.8	51.4	31.6	15.7	3.6
-7.5°	173.1	107.0	76.4	53.3	32.8	16.2	3.6
-10°	175.8	110.1	78.9	55.0	33.9	16.8	3.6
-12.5°	177.7	112.9	81.2	56.6	35.0	17.3	3.6
-15°	178.7	115.3	83.2	58.1	35.9	17.7	3.6
-17.5°	178.8	117.4	85.1	59.4	36.8	18.2	3.6
-20°	178.1	119.1	86.7	60.6	37.6	18.6	3.6



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 CATALOG NUMBER: EPH-LS-08-0680N-57-70-3S-VHE

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	176.7	120.5	88.1	61.7	38.4	18.9	3.6
-25°	174.4	121.7	89.3	62.6	39.0	19.3	3.6
-27.5°	171.2	122.7	90.2	63.3	39.6	19.6	3.6
-30°	167.0	123.3	90.9	63.9	40.0	19.9	3.6
-32.5°	161.9	123.6	91.8	64.3	40.4	20.1	3.6
-35°	160.1	123.5	92.4	64.5	40.7	20.3	3.6
-37.5°	159.5	123.5	92.9	64.6	40.9	20.4	3.6
-40°	158.6	123.7	93.1	64.5	41.0	20.6	3.6
-42.5°	157.2	123.6	93.1	64.3	41.1	20.6	3.6
-45°	155.2	123.3	93.0	64.2	41.0	20.7	3.6
-47.5°	152.7	122.6	92.6	64.0	40.8	20.7	3.6
-50°	151.0	121.7	92.0	63.8	40.6	20.6	3.6
-52.5°	149.1	120.5	91.1	63.5	40.2	20.6	3.6
-55°	146.7	118.7	89.9	63.1	39.8	20.4	3.6
-57.5°	144.0	116.5	88.6	62.5	39.3	20.3	3.6
-60°	140.9	114.1	86.9	61.8	38.7	20.1	3.6
-62.5°	137.6	111.5	85.6	60.9	38.1	19.9	3.6
-65°	134.0	108.5	84.1	59.8	37.4	19.6	3.6
-67.5°	130.0	105.6	82.3	58.6	36.7	19.3	3.6
-70°	125.8	102.6	80.4	57.3	35.8	19.0	3.6
-72.5°	121.3	99.4	78.2	55.9	34.9	18.6	3.6
-75°	116.6	95.8	75.8	54.4	33.9	18.2	3.6
-77.5°	111.5	92.1	73.5	52.8	32.9	17.7	3.6
-80°	106.2	88.5	71.0	51.1	31.8	17.3	3.6
-82.5°	101.6	84.9	68.3	49.2	30.6	16.8	3.6
-85°	97.0	81.2	65.5	47.3	29.3	16.3	3.6
-87.5°	92.2	77.4	62.5	45.2	28.0	15.7	3.6
-90°	3.6	3.6	3.6	3.6	3.6	3.6	3.6

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)



Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report

