

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: P735972 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-57-80-4S-VHE**

Issue Date: 1/29/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P735972 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680N-57-80-4S-VHE  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 5700K, 80 CRI LEDS AND 4S BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

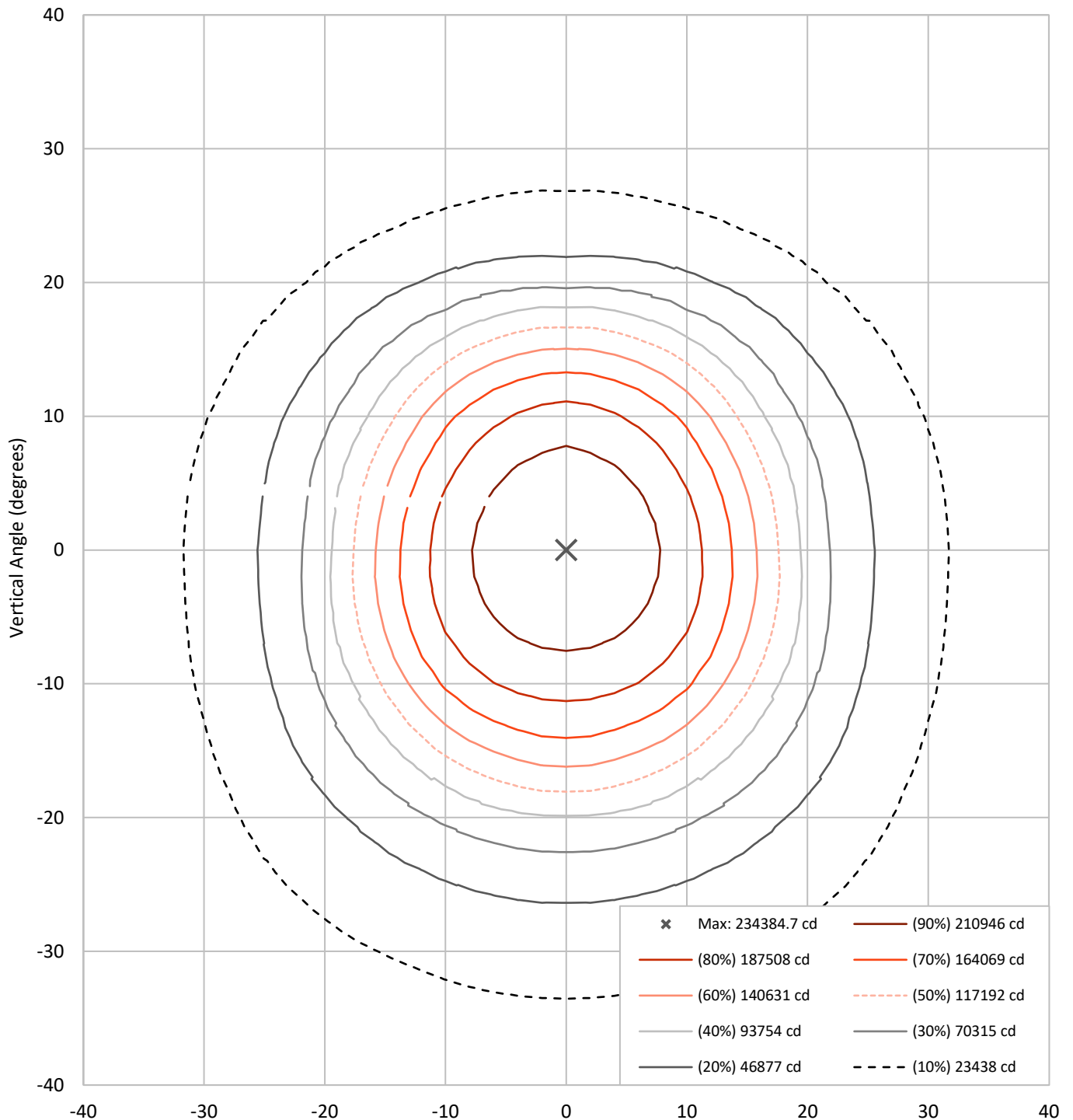
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	97227.5 lumens	Max Intensity:	234384.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	139.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	35.2°H x 34.7°V	Field Angle (10%):	63.4°H x 60.3°V
Beam Lumens:	52184.9 lumens	Field Lumens:	84920.4 lumens
Beam Efficiency:	53.7%	Field Efficiency:	87.3%

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





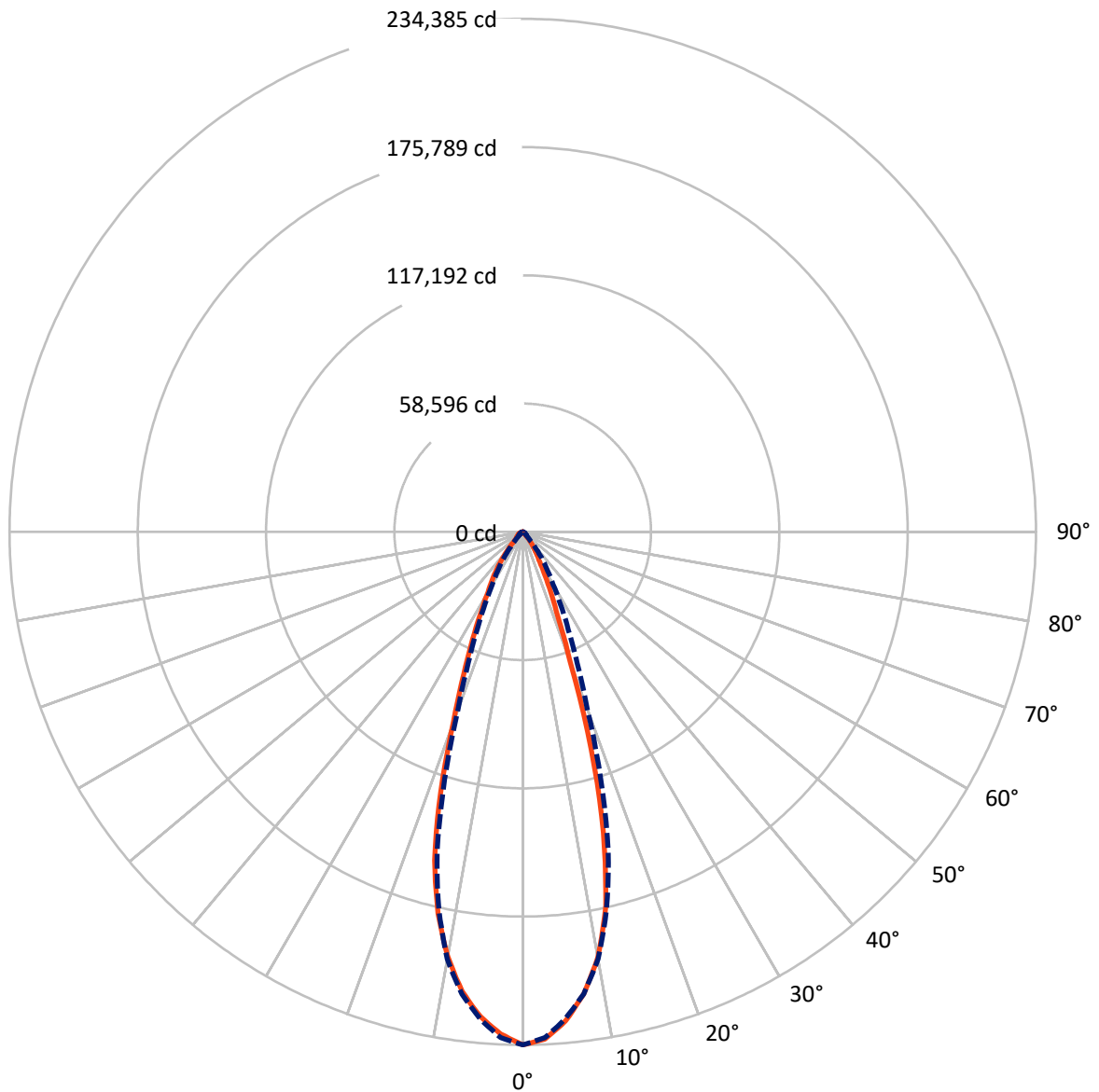
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### Lumen Table

90	0.3	1.1	1.8	2.5	2.9	2.5	1.8	1.1	0.3									
80	0.3	1.1	1.8	2.5	2.9	2.5	1.8	1.1	0.3									
70	0.3	0.2	0.3	0.6	0.8	0.7	0.7	0.8	0.8	0.7	0.7	0.8	0.6	0.3	0.2	0.3		
60		0.5	0.8	1.3	1.3	1.0	1.2	1.4	1.4	1.2	1.0	1.3	1.3	0.8	0.5			
50	1.0	1.2	2.7	5.6	10.2	16.1	23.6	30.5	30.5	23.6	16.1	10.2	5.6	2.7	1.2	1.0		
40		2.9	9.3	17.7	29.1	67.1	150.1	243.1	243.1	150.1	67.1	29.1	17.7	9.3	2.9			
30	2.1	5.1	15.4	29.9	93.8	288.6	629.8	955.1	955.1	629.8	288.6	93.8	29.9	15.4	5.1	2.1		
20		6.9	20.3	47.8	244.2	809.9	2164.1	3845.5	3845.5	2164.1	809.9	244.2	47.8	20.3	6.9			
10	3.1	8.5	23.7	66.3	382.3	1329.4	3934.7	6300.7	6300.7	3934.7	1329.4	382.3	66.3	23.7	8.5	3.1		
0		9.5	26.4	74.1	409.7	1396.2	4125.0	6350.5	6350.5	4125.0	1396.2	409.7	74.1	26.4	9.5			
-10	3.6	9.7	27.9	68.3	327.0	1031.4	2596.6	4266.0	4266.0	2596.6	1031.4	327.0	68.3	27.9	9.7	3.6		
-20		9.1	27.8	58.5	179.9	572.8	1124.6	1624.1	1624.1	1124.6	572.8	179.9	58.5	27.8	9.1			
-30	3.4	7.8	25.0	49.0	86.4	212.6	428.2	592.0	592.0	428.2	212.6	86.4	49.0	25.0	7.8	3.4		
-40		6.1	18.7	39.2	61.8	85.7	117.0	149.8	149.8	117.0	85.7	61.8	39.2	18.7	6.1			
-50	2.9	4.5	11.7	25.5	44.0	59.3	71.6	80.3	80.3	71.6	59.3	44.0	25.5	11.7	4.5	2.9		
-60		3.4	6.9	12.9	22.1	31.3	39.8	45.4	45.4	39.8	31.3	22.1	12.9	6.9	3.4			
-70	2.1	3.4	6.9	12.9	22.1	31.3	39.8	45.4	45.4	39.8	31.3	22.1	12.9	6.9	3.4	2.1		
-80		12.3	27.8	44.9	55.1	44.9	27.8	12.3	2.1									
-90	2.1	12.3	27.8	44.9	55.1	44.9	27.8	12.3	2.1									

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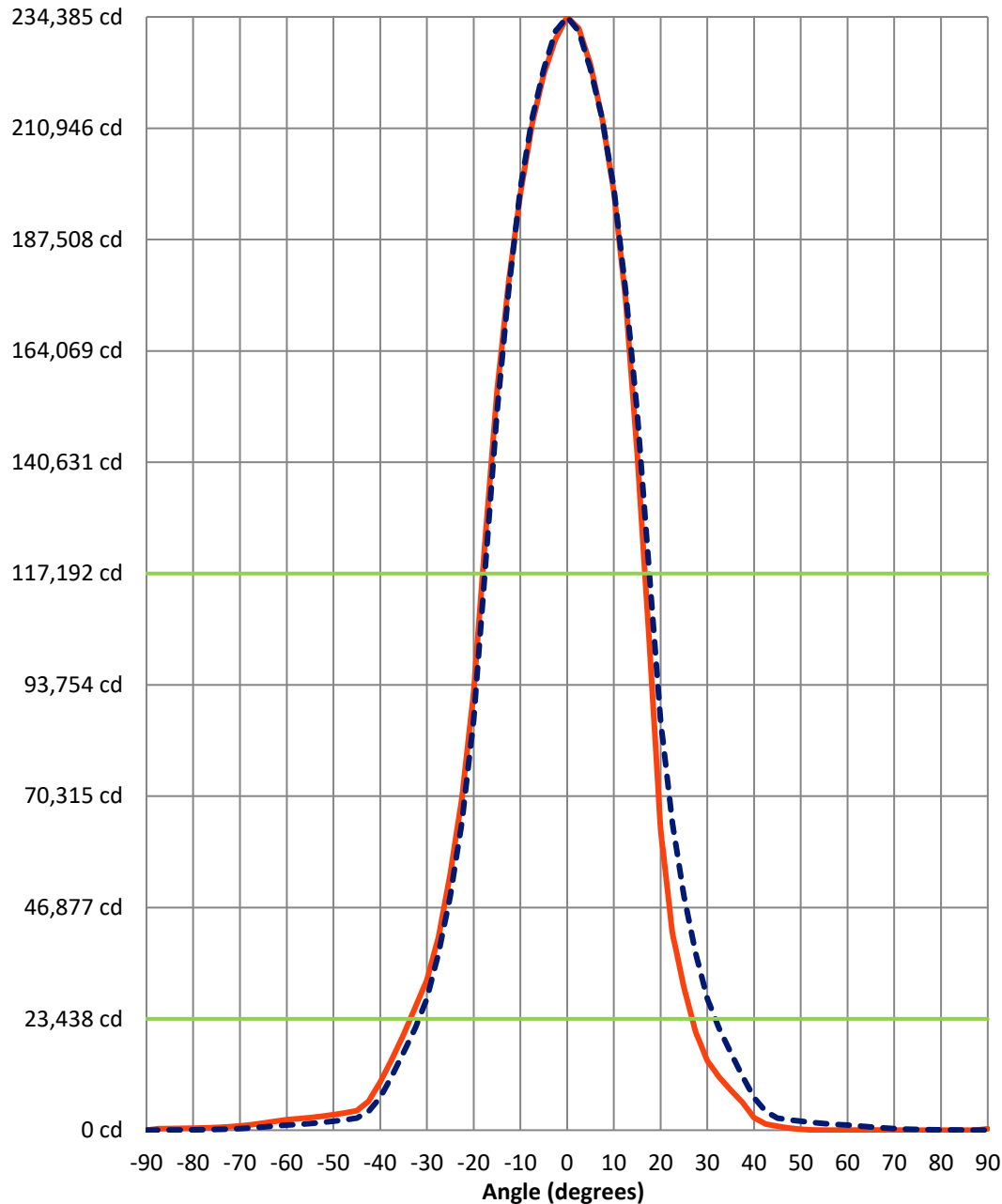
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
H Angle: 35.2°  
V Angle: 34.7°  
Lumens: 52184.9  
Efficiency: 53.7%

**Field:**  
H Angle: 63.4°  
V Angle: 60.3°  
Lumens: 84920.4  
Efficiency: 87.3%

**Spill:**  
Lumens: 12307.1  
Efficiency: 12.7%

- 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°	10.4	19.7	29.0	47.5	66.1	82.9	99.7	113.1	126.4	135.1	143.8
87.5°	10.4	9.5	8.3	8.4	8.5	8.5	8.4	7.9	7.4	7.4	7.5
85°	10.4	9.7	8.5	8.7	8.9	8.9	8.7	8.3	7.8	7.8	7.9
82.5°	10.4	9.9	8.7	9.0	9.3	9.2	9.1	8.6	8.2	8.4	8.4
80°	10.4	10.1	9.0	9.3	9.7	9.6	9.4	9.2	9.0	9.1	9.0
77.5°	10.4	10.3	9.2	9.6	10.1	10.1	10.0	9.9	9.8	9.8	9.4
75°	10.4	10.5	9.4	9.9	10.5	10.6	10.6	10.6	10.6	10.2	9.6
72.5°	10.4	10.7	9.7	10.2	10.9	11.1	11.3	11.3	11.1	10.6	9.8
70°	10.4	11.0	10.0	10.5	11.4	11.7	11.9	12.0	11.7	11.0	10.7
67.5°	10.4	11.2	10.3	11.0	11.8	12.2	12.7	12.6	12.3	12.0	11.7
65°	10.4	11.4	10.6	11.4	12.3	13.0	13.6	13.3	13.7	13.0	13.2
62.5°	10.4	11.6	11.0	11.9	12.8	14.0	14.6	14.8	15.3	14.5	15.7
60°	10.4	11.9	11.3	12.4	13.4	15.1	15.6	16.9	17.1	18.3	18.7
57.5°	10.4	12.1	12.0	12.9	14.6	16.3	17.8	19.1	21.3	22.8	25.3
55°	10.4	12.4	12.7	13.4	15.9	17.5	20.2	21.7	26.4	28.8	33.9
52.5°	10.4	12.6	13.4	13.9	17.2	19.0	22.8	26.8	31.9	38.8	43.3
50°	10.4	12.9	14.1	14.4	18.6	21.6	25.5	32.4	39.1	49.6	56.1
47.5°	10.4	13.1	14.9	15.1	20.1	24.3	28.6	38.2	49.8	61.1	70.6
45°	10.4	13.4	15.8	16.3	21.6	27.2	33.9	44.3	61.0	75.3	86.1
42.5°	10.4	13.6	16.7	17.5	23.2	30.1	39.2	52.9	72.8	90.2	111.1
40°	10.4	13.9	17.6	19.2	25.3	33.2	44.9	63.5	85.6	105.9	139.9
37.5°	10.4	14.1	18.5	21.2	27.7	36.4	50.9	74.2	100.5	126.2	171.2
35°	10.4	14.4	19.5	23.3	30.2	40.7	56.8	85.1	116.0	155.2	209.1
32.5°	10.4	14.6	20.5	25.3	32.6	45.5	63.7	96.0	132.1	184.8	252.3
30°	10.4	14.9	21.5	27.4	35.1	50.1	72.5	107.2	148.7	215.0	293.5
27.5°	10.4	15.1	22.6	29.5	38.5	54.7	81.1	119.4	166.9	245.7	332.6
25°	10.4	15.4	23.6	31.7	41.9	59.2	89.5	131.1	187.9	277.6	369.7
22.5°	10.4	15.6	24.7	33.8	45.2	63.9	97.5	142.2	207.6	302.4	407.7
20°	10.4	15.8	25.8	35.8	48.5	69.1	105.2	152.6	225.8	325.5	438.4
17.5°	10.4	16.1	26.8	37.9	51.7	74.3	113.2	162.5	242.6	347.0	467.1
15°	10.4	16.3	27.9	40.0	54.7	79.3	121.2	172.3	257.9	366.7	494.1
12.5°	10.4	16.5	28.9	42.0	57.7	84.1	128.6	182.2	273.3	384.5	519.2
10°	10.4	16.7	29.9	43.9	60.6	88.6	135.5	191.6	288.5	407.5	546.8
7.5°	10.4	16.9	30.9	45.8	63.3	93.0	141.9	200.2	302.2	430.2	582.2
5°	10.4	17.1	31.9	47.6	65.9	97.1	147.8	208.1	314.4	451.2	615.5
2.5°	10.4	17.2	32.8	49.4	68.4	100.9	153.0	215.2	325.0	470.3	646.2
0°	10.4	17.4	33.6	51.0	70.7	104.4	157.7	221.5	333.9	487.0	673.7
-2.5°	10.4	18.0	34.9	53.2	74.0	108.6	163.1	229.1	345.6	500.7	687.5
-5°	10.4	18.6	36.1	55.2	77.1	112.5	167.9	235.7	355.4	511.6	697.5
-7.5°	10.4	19.2	37.3	57.1	80.1	116.0	172.0	241.4	363.0	519.6	703.8
-10°	10.4	19.8	38.4	59.0	82.8	119.1	175.4	245.9	368.3	524.6	706.5
-12.5°	10.4	20.3	39.4	60.6	85.4	121.9	178.1	249.3	371.1	526.5	709.6
-15°	10.4	20.9	40.3	62.2	87.7	124.3	180.0	251.5	370.6	524.2	709.5
-17.5°	10.4	21.4	41.2	63.6	89.7	126.3	181.2	253.0	367.0	518.4	703.5
-20°	10.4	21.8	41.9	64.8	91.5	128.0	182.1	253.7	361.2	509.0	691.4



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 CATALOG NUMBER: EPH-LS-08-0680N-57-80-4S-VHE

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	10.4	22.3	42.6	65.9	93.1	129.2	183.0	253.3	353.2	496.0	673.4
-25°	10.4	22.7	43.3	66.9	94.4	130.7	183.0	251.9	342.9	479.3	654.6
-27.5°	10.4	23.0	43.8	67.6	95.4	132.1	182.2	249.3	330.5	465.0	638.5
-30°	10.4	23.4	44.2	68.2	96.2	133.0	180.6	245.6	323.1	451.8	617.4
-32.5°	10.4	23.7	44.6	68.7	97.5	133.4	178.2	242.4	318.8	435.0	591.0
-35°	10.4	23.9	44.8	68.9	98.5	133.4	177.2	238.7	312.7	414.8	559.2
-37.5°	10.4	24.1	45.0	69.0	99.2	133.4	176.7	233.9	304.8	391.1	528.9
-40°	10.4	24.3	45.1	68.9	99.6	134.0	175.6	227.7	295.2	375.8	499.2
-42.5°	10.4	24.4	45.1	68.9	100.0	134.2	173.7	220.3	285.8	363.2	466.0
-45°	10.4	24.5	45.0	69.0	100.2	134.0	171.1	214.0	275.7	348.3	432.3
-47.5°	10.4	24.6	44.8	69.0	100.1	133.6	167.9	210.2	264.1	331.1	412.6
-50°	10.4	24.6	44.5	69.0	99.7	132.7	166.2	205.8	250.9	315.8	390.1
-52.5°	10.4	24.6	44.1	68.9	99.0	131.5	164.4	200.7	242.1	298.5	364.3
-55°	10.4	24.5	43.7	68.6	98.0	129.9	162.2	195.3	234.9	279.4	339.6
-57.5°	10.4	24.4	43.1	68.1	96.8	127.9	159.6	192.2	226.7	267.2	313.0
-60°	10.4	24.2	42.5	67.4	95.2	125.6	156.6	188.2	218.5	256.4	289.4
-62.5°	10.4	24.0	41.9	66.6	93.9	122.9	153.1	183.5	212.7	244.0	274.4
-65°	10.4	23.8	41.1	65.6	92.4	119.9	149.2	178.2	206.2	234.0	258.8
-67.5°	10.4	23.5	40.3	64.4	90.6	116.8	144.9	172.4	199.1	224.5	246.5
-70°	10.4	23.2	39.3	63.0	88.6	113.7	140.1	166.2	191.7	214.5	235.3
-72.5°	10.4	22.9	38.3	61.6	86.3	110.2	135.3	159.5	183.8	204.6	223.7
-75°	10.4	22.5	37.2	59.9	83.8	106.5	130.1	152.7	175.4	194.2	211.7
-77.5°	10.4	22.1	36.0	58.2	81.3	102.4	124.6	145.5	166.7	183.5	199.4
-80°	10.4	21.7	34.7	56.3	78.6	98.6	118.7	138.0	157.6	172.6	187.1
-82.5°	10.4	21.2	33.4	54.3	75.7	95.0	114.1	131.0	148.2	161.5	174.6
-85°	10.4	20.7	32.0	52.2	72.7	91.1	109.5	125.2	141.0	152.1	163.1
-87.5°	10.4	20.2	30.5	49.9	69.4	87.1	104.7	119.2	133.8	143.7	153.5
-90°	10.4	9.3	8.1	8.1	8.1	8.1	8.1	7.6	7.0	7.0	7.0





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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°	150.2	156.5	162.3	168.1	175.1	182.0	189.0	196.0	203.5	211.0	218.6
87.5°	6.9	6.4	6.4	6.5	5.9	5.4	5.0	4.6	4.6	4.6	4.5
85°	7.5	7.0	7.0	7.0	6.5	6.2	5.6	5.1	5.2	5.2	5.0
82.5°	8.0	7.6	7.4	7.0	6.9	6.9	6.5	6.0	5.9	5.8	5.5
80°	8.6	8.2	7.7	7.4	7.3	7.1	6.8	6.8	6.5	6.0	5.9
77.5°	8.8	8.2	8.0	8.0	7.7	7.1	7.0	7.0	6.9	6.8	6.5
75°	8.9	8.3	8.3	8.2	7.8	7.2	7.0	7.2	7.3	7.1	6.9
72.5°	9.3	9.0	8.7	8.4	8.1	7.8	7.8	8.0	8.7	9.3	9.9
70°	10.4	9.9	9.6	9.3	8.9	8.9	9.8	11.8	13.7	14.5	16.4
67.5°	11.4	11.1	10.8	10.5	10.6	11.5	12.9	17.1	20.8	23.4	26.2
65°	12.6	12.4	12.5	12.6	12.8	16.3	20.1	24.3	30.9	34.5	34.6
62.5°	14.1	15.9	15.2	16.2	19.5	23.2	29.1	36.7	45.0	48.3	46.2
60°	20.1	21.0	21.4	24.0	27.2	31.3	39.4	48.6	58.2	64.0	55.4
57.5°	27.6	28.9	31.0	32.5	36.1	38.5	48.1	59.3	65.5	69.2	59.4
55°	37.1	38.9	42.1	42.7	45.8	46.9	54.9	62.6	67.8	68.9	58.4
52.5°	49.1	51.2	55.8	56.5	56.7	57.7	58.8	67.3	71.5	70.3	60.6
50°	62.1	69.3	71.7	74.4	71.0	72.4	68.5	78.4	86.7	84.5	87.3
47.5°	81.2	90.2	93.8	98.6	96.2	104.1	101.2	119.9	126.4	163.9	172.3
45°	104.2	120.2	125.0	136.1	147.3	156.6	186.7	189.1	268.2	301.2	363.4
42.5°	131.9	156.8	177.0	181.1	235.0	263.7	305.6	374.7	444.1	507.6	549.8
40°	173.0	198.8	242.1	292.6	349.8	411.5	467.5	547.7	614.8	664.7	694.6
37.5°	219.8	268.8	327.9	419.0	496.3	559.2	622.8	692.1	755.3	799.2	856.3
35°	271.0	342.5	452.0	546.9	629.8	689.1	751.1	824.6	884.3	955.1	1025.7
32.5°	333.3	417.8	555.1	657.6	725.0	795.1	866.7	944.0	1029.5	1116.7	1207.1
30°	394.9	502.5	636.8	743.2	808.4	890.1	977.2	1067.8	1180.0	1289.9	1412.0
27.5°	443.3	575.3	703.0	813.0	889.0	985.7	1092.0	1210.2	1343.4	1477.9	1640.2
25°	486.6	629.4	769.7	886.3	982.8	1090.0	1214.9	1356.8	1515.5	1704.5	2214.7
22.5°	528.8	682.1	843.4	964.9	1073.4	1194.5	1345.1	1510.8	1697.5	1948.6	2851.0
20°	572.1	741.8	914.0	1030.2	1156.0	1291.8	1468.2	1660.5	1891.9	2485.4	3816.3
17.5°	616.6	803.4	974.0	1087.6	1220.1	1385.6	1590.7	1807.6	2089.7	2987.9	5025.2
15°	660.1	861.5	1022.1	1138.3	1284.4	1477.0	1706.2	1971.8	2439.9	3689.3	6236.5
12.5°	701.6	913.6	1057.9	1181.9	1347.9	1563.2	1813.2	2111.3	2851.4	4635.8	7557.7
10°	740.7	959.8	1089.0	1223.6	1410.0	1644.2	1909.1	2234.1	3210.7	5392.1	8603.7
7.5°	783.0	999.4	1117.2	1263.1	1467.1	1718.2	1988.1	2328.6	3478.4	5972.1	9380.7
5°	821.4	1031.5	1149.7	1309.4	1523.9	1785.0	2055.7	2407.8	3661.1	6339.7	9919.9
2.5°	854.9	1057.2	1179.9	1353.4	1577.3	1843.6	2117.0	2487.1	3824.1	6650.4	10602.2
0°	883.6	1077.2	1207.1	1392.6	1623.3	1892.3	2167.1	2550.9	3933.1	6859.7	11393.5
-2.5°	901.1	1107.1	1252.4	1433.7	1661.3	1926.9	2212.4	2619.1	4043.5	7312.1	11694.8
-5°	913.6	1131.2	1292.9	1469.7	1692.1	1952.2	2245.6	2667.5	4091.0	7436.6	11607.1
-7.5°	920.9	1148.8	1327.7	1501.2	1719.7	1981.5	2298.0	2732.1	4112.5	7129.8	11109.7
-10°	924.8	1163.5	1350.5	1527.3	1745.2	2008.4	2338.7	2773.8	4024.2	6716.1	10537.4
-12.5°	934.7	1176.0	1368.6	1546.6	1762.2	2027.8	2370.4	2805.2	3822.9	6147.5	9750.9
-15°	937.3	1182.5	1383.7	1559.8	1779.9	2056.3	2394.5	2810.5	3532.3	5412.7	8746.6
-17.5°	932.0	1182.8	1394.3	1570.2	1788.8	2067.2	2402.1	2795.1	3315.2	4878.9	7736.2
-20°	918.4	1169.0	1397.5	1571.2	1785.4	2071.6	2405.9	2788.5	3262.3	4333.0	6511.0



REPORT NUMBER: P735972 (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°	896.4	1147.1	1386.2	1569.6	1797.1	2073.5	2394.8	2747.3	3147.4	3674.6	5291.1
-25°	872.8	1116.1	1356.8	1575.1	1799.3	2063.8	2347.9	2671.6	3041.1	3453.4	4420.8
-27.5°	847.3	1079.8	1326.7	1568.1	1788.3	2027.7	2291.6	2594.8	2899.2	3232.2	3644.2
-30°	816.4	1040.5	1286.3	1542.6	1762.3	1986.0	2229.3	2474.5	2747.3	3047.0	3396.0
-32.5°	779.4	994.2	1236.2	1489.5	1727.9	1937.5	2141.1	2361.2	2604.6	2868.9	3157.5
-35°	739.2	947.3	1177.5	1424.8	1686.0	1878.5	2055.3	2245.8	2461.3	2702.8	2971.0
-37.5°	698.4	893.2	1108.6	1349.8	1603.8	1805.3	1964.6	2142.3	2332.1	2538.9	2788.2
-40°	652.1	830.8	1036.8	1264.7	1489.9	1707.6	1882.7	2043.9	2210.6	2399.8	2603.5
-42.5°	602.3	770.1	958.1	1164.7	1369.2	1576.8	1796.1	1954.4	2103.7	2264.3	2442.8
-45°	560.6	703.1	873.1	1056.8	1241.2	1442.3	1653.8	1865.4	2001.7	2140.8	2292.8
-47.5°	512.4	635.1	790.6	943.6	1113.7	1303.3	1503.7	1700.0	1893.5	2028.8	2156.8
-50°	466.4	577.5	696.3	837.1	988.7	1163.8	1347.3	1526.8	1708.2	1891.4	2037.4
-52.5°	434.8	515.8	618.9	730.1	870.3	1025.1	1186.0	1345.9	1516.3	1691.1	1859.4
-55°	400.6	470.1	543.5	638.0	753.4	891.3	1025.2	1168.4	1314.7	1476.0	1639.9
-57.5°	368.1	425.6	483.2	555.0	652.2	757.5	874.9	992.5	1125.2	1260.2	1400.6
-60°	335.9	383.1	432.0	489.3	556.2	645.0	730.0	832.4	942.6	1053.7	1178.5
-62.5°	305.0	343.5	384.3	432.7	488.6	540.9	611.2	690.6	770.1	868.5	969.5
-65°	286.9	308.3	340.3	382.3	425.8	472.2	517.8	566.4	635.7	709.0	780.8
-67.5°	267.6	287.3	307.3	333.2	371.4	407.6	444.2	487.0	531.1	578.7	630.9
-70°	253.1	266.9	284.7	305.0	324.9	346.9	379.5	413.5	447.4	484.5	525.5
-72.5°	239.5	252.3	265.6	280.0	297.4	314.1	331.3	349.7	376.4	408.9	439.4
-75°	225.7	237.6	249.7	262.3	275.4	288.1	301.6	318.1	336.5	356.4	375.0
-77.5°	211.7	222.7	233.8	244.7	256.5	268.8	280.4	292.3	306.7	322.1	336.7
-80°	197.9	207.7	217.9	228.0	238.4	249.1	259.4	269.4	281.8	295.0	308.0
-82.5°	184.4	193.6	202.4	211.3	220.3	229.2	238.4	247.8	259.2	270.8	281.9
-85°	171.3	179.4	186.9	194.4	202.7	210.9	218.8	226.7	237.1	247.6	257.1
-87.5°	160.8	168.0	174.4	180.7	188.1	195.4	202.2	209.0	217.9	226.9	235.0
-90°	6.4	5.8	5.8	5.8	5.2	4.6	4.6	4.6	4.6	4.6	4.1



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	226.1	231.3	236.5	240.0	243.5	248.7	253.9	261.5	269.0	275.4	281.8
87.5°	4.4	4.0	3.5	3.4	3.4	3.4	3.4	2.9	2.3	2.3	2.3
85°	4.6	4.4	4.3	4.4	4.4	4.0	3.5	3.4	3.4	3.4	3.5
82.5°	5.2	4.9	4.6	4.6	4.6	4.5	4.4	4.0	3.5	3.5	3.5
80°	5.8	5.5	5.2	5.0	4.7	4.6	4.6	4.1	3.5	3.5	3.5
77.5°	6.0	6.0	5.8	5.3	4.7	4.6	4.6	4.1	3.6	3.5	3.5
75°	6.9	6.8	6.7	6.5	6.3	6.5	6.8	6.7	6.4	6.1	5.7
72.5°	10.5	10.5	10.3	10.9	11.5	12.0	12.3	12.6	13.1	14.0	15.0
70°	18.5	19.9	19.9	19.9	19.9	19.3	18.7	18.5	18.6	18.9	19.2
67.5°	27.8	29.0	29.5	29.8	27.1	25.4	24.7	24.8	25.9	28.0	31.0
65°	35.5	33.4	31.5	29.4	29.6	29.5	28.1	27.5	28.4	29.7	31.1
62.5°	42.3	33.6	28.0	25.3	25.7	26.6	24.1	22.1	21.5	21.1	21.2
60°	45.4	31.6	22.3	18.9	16.9	15.9	14.2	12.1	11.5	11.3	11.6
57.5°	45.9	30.1	17.8	14.0	10.7	8.3	7.0	6.1	6.1	5.8	5.7
55°	44.4	30.5	17.2	15.8	14.4	13.2	11.5	11.2	10.6	10.5	11.2
52.5°	46.0	42.7	34.9	33.9	41.3	41.6	35.8	44.1	49.6	53.9	56.0
50°	91.0	87.4	110.5	110.4	133.7	153.7	147.9	159.5	179.7	197.2	208.0
47.5°	212.6	229.3	263.8	294.9	329.9	374.1	393.7	407.6	425.2	448.8	464.6
45°	396.0	437.4	482.3	532.5	591.1	642.9	673.0	702.0	721.3	742.3	767.1
42.5°	588.0	637.5	703.9	763.9	827.4	887.8	935.5	977.5	1059.4	1176.4	1269.3
40°	752.4	808.7	885.9	965.9	1040.5	1117.0	1327.6	1507.0	1730.6	2064.5	2360.3
37.5°	915.6	980.6	1066.8	1164.8	1390.0	1618.1	2078.0	2574.7	3005.1	3487.8	3975.1
35°	1093.5	1178.8	1294.1	1623.9	2040.8	2648.7	3308.1	4045.9	4672.2	5346.1	6333.5
32.5°	1303.4	1452.6	1825.2	2424.7	3172.4	4035.8	4853.8	5781.2	6563.4	7801.6	9309.6
30°	1574.2	2041.8	2757.3	3585.0	4593.8	5686.7	6712.4	8214.5	9969.4	11522.9	12805.8
27.5°	2227.2	3130.4	4129.4	5178.2	6441.6	7765.9	9916.4	11860.6	13748.8	15426.2	17375.0
25°	3202.3	4651.2	6358.4	7764.6	9481.2	11874.7	14306.4	16447.6	19317.3	21841.4	24672.7
22.5°	4581.4	6644.7	8843.6	10896.7	13532.9	16530.7	19802.3	23747.5	27734.1	32162.3	36101.8
20°	5927.5	8537.9	11322.7	14278.3	17654.5	21402.5	26750.5	33153.2	39296.2	46272.8	52155.7
17.5°	7720.0	10875.8	14169.2	17926.2	22266.9	28033.2	35926.8	44681.6	54181.1	64598.9	74232.7
15°	9542.9	12942.6	16769.5	21577.9	27717.6	35554.6	45624.9	57542.9	71435.2	86749.9	105368.5
12.5°	11036.9	14754.4	19229.3	25289.0	33319.0	43799.7	56000.7	70347.3	89393.0	112491.8	134123.1
10°	12313.2	16770.8	22425.4	29597.1	39042.4	50874.1	64734.4	82496.4	108152.0	134911.0	158649.4
7.5°	13628.1	18901.4	24890.0	32665.7	43405.1	56835.1	73902.7	97097.3	125325.3	152771.1	174540.3
5°	14868.2	20354.3	26445.0	34752.6	46366.3	60790.1	80155.2	108406.5	139124.6	166005.9	186458.0
2.5°	15839.6	21085.0	27263.9	36306.7	47967.1	62939.6	84074.7	115399.7	147623.0	174115.9	195087.9
0°	16343.5	21481.3	27718.4	37278.7	49294.8	64912.4	86321.8	118485.8	151080.0	176879.3	198255.2
-2.5°	16232.0	21290.0	27437.1	36528.6	48991.3	65269.3	88190.2	120094.2	151675.4	177822.0	197967.4
-5°	15997.4	20988.7	27050.9	35606.8	47904.8	64372.0	86161.5	115493.0	145993.4	172813.8	192398.5
-7.5°	15560.3	20484.1	26280.5	34258.5	46104.0	61697.8	81360.7	106848.7	136108.7	162980.8	181940.4
-10°	14917.3	19704.7	25175.1	32430.9	43069.1	57391.8	74108.6	94012.9	121384.5	146508.5	167575.0
-12.5°	14003.3	18602.1	23641.5	29876.5	39403.6	52025.7	66437.3	82975.4	102538.1	126768.3	146515.0
-15°	12840.2	17165.3	21848.0	27731.0	35697.1	46039.1	58189.8	71019.5	86013.8	102739.4	121987.1
-17.5°	11412.9	15475.6	19836.3	24908.0	31350.5	40027.5	49639.3	59650.1	70473.2	82781.7	94089.8
-20°	9710.8	13426.9	17536.4	22253.8	27774.2	34041.6	41028.7	49121.7	57511.0	66295.8	74068.4



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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°	7982.5	11372.5	15288.5	19413.4	24211.4	28995.4	33688.4	39705.8	46184.3	52544.2	58329.5
-25°	6245.8	9238.6	12879.5	16748.4	20599.5	24507.2	28317.6	32054.1	36716.1	40809.7	45056.0
-27.5°	4961.0	7199.7	10257.0	13633.3	16989.0	20249.7	23544.1	26665.3	29605.3	32077.5	34940.4
-30°	3901.5	5412.6	7774.5	10431.3	13367.5	16240.5	19079.4	21715.9	24031.2	26066.7	28054.7
-32.5°	3527.5	4144.5	5548.1	7567.1	9883.5	12404.0	14776.9	17041.5	18950.2	20841.9	22623.2
-35°	3263.0	3602.8	4061.7	5322.9	6831.4	8837.3	10697.3	12576.8	14179.8	16069.1	17529.8
-37.5°	3046.3	3308.0	3598.1	3895.6	4813.0	5817.2	7156.5	8565.3	9803.7	11388.5	12678.2
-40°	2836.5	3068.2	3294.9	3521.1	3765.1	3989.2	4786.3	5512.8	6352.9	7437.0	8364.6
-42.5°	2633.7	2837.7	3034.1	3217.9	3388.3	3535.5	3695.9	3849.7	4303.3	4855.8	5280.2
-45°	2451.6	2625.1	2789.4	2944.9	3074.8	3192.5	3316.1	3444.8	3613.5	3766.7	3893.3
-47.5°	2296.8	2433.9	2568.6	2695.3	2795.0	2895.5	2993.9	3105.0	3236.4	3365.0	3472.6
-50°	2156.8	2275.4	2377.7	2467.4	2550.3	2635.4	2713.8	2812.4	2918.1	3024.5	3113.6
-52.5°	2022.7	2128.3	2213.6	2281.9	2345.1	2414.5	2481.9	2560.6	2646.4	2736.0	2806.7
-55°	1797.3	1931.5	2055.5	2119.7	2169.2	2226.4	2283.5	2347.2	2419.6	2494.9	2551.0
-57.5°	1548.3	1680.6	1797.5	1880.7	1962.9	2046.8	2109.6	2159.5	2225.0	2289.2	2337.7
-60°	1298.1	1409.2	1512.3	1596.5	1682.2	1766.2	1836.9	1901.9	1982.9	2056.6	2116.5
-62.5°	1065.3	1162.4	1242.0	1310.1	1383.2	1456.2	1523.5	1587.7	1661.3	1727.4	1783.5
-65°	853.6	935.1	994.0	1047.5	1105.6	1166.1	1219.4	1272.6	1331.7	1384.7	1430.7
-67.5°	690.2	744.3	781.0	815.0	861.2	908.2	950.0	992.3	1037.5	1077.6	1112.5
-70°	565.1	598.8	621.4	647.6	680.4	710.4	737.9	768.8	802.1	832.8	860.6
-72.5°	468.5	491.6	508.5	529.4	550.2	569.3	586.7	608.9	633.1	656.8	679.4
-75°	392.4	407.4	423.6	438.7	452.9	466.8	479.6	497.5	516.1	533.9	551.0
-77.5°	352.1	363.3	372.4	380.7	388.5	397.5	406.3	421.4	437.7	451.4	464.4
-80°	320.8	329.6	337.1	343.4	349.3	356.6	364.1	376.4	389.2	400.7	412.0
-82.5°	292.8	300.3	307.2	313.1	318.7	325.0	331.2	342.0	353.0	362.9	372.6
-85°	266.6	273.1	279.3	284.5	289.7	295.5	301.2	310.6	320.0	328.8	337.5
-87.5°	243.1	248.9	254.5	258.5	262.4	268.0	273.5	281.9	290.2	298.0	305.7
-90°	3.5	3.5	3.5	2.9	2.3	2.3	2.3	2.3	2.3	1.8	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°	285.3	288.7	289.3	289.9	289.3	288.7	285.3	281.8	275.4	269.0	261.5
87.5°	1.7	1.2	1.7	2.3	1.7	1.2	1.7	2.3	2.3	2.3	2.9
85°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.4
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.0
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.1
77.5°	3.0	2.4	2.9	3.5	2.9	2.4	3.0	3.5	3.5	3.6	4.1
75°	5.1	4.6	4.1	3.5	4.1	4.6	5.1	5.7	6.1	6.4	6.7
72.5°	15.5	15.9	16.7	17.4	16.7	15.9	15.5	15.0	14.0	13.1	12.6
70°	18.6	17.5	17.4	17.4	17.4	17.5	18.6	19.2	18.9	18.6	18.5
67.5°	33.2	35.1	35.7	35.9	35.7	35.1	33.2	31.0	28.0	25.9	24.8
65°	32.3	33.5	33.6	33.6	33.6	33.5	32.3	31.1	29.7	28.4	27.5
62.5°	21.6	22.2	22.6	23.2	22.6	22.2	21.6	21.2	21.1	21.5	22.1
60°	12.1	12.9	13.4	13.9	13.4	12.9	12.1	11.6	11.3	11.5	12.1
57.5°	5.6	6.0	6.4	7.0	6.4	6.0	5.6	5.7	5.8	6.1	6.1
55°	11.7	12.4	12.7	12.8	12.7	12.4	11.7	11.2	10.5	10.6	11.2
52.5°	55.0	52.4	50.3	48.7	50.3	52.4	55.0	56.0	53.9	49.6	44.1
50°	212.5	207.3	201.5	196.0	201.5	207.3	212.5	208.0	197.2	179.7	159.5
47.5°	474.0	469.8	461.1	449.9	461.1	469.8	474.0	464.6	448.8	425.2	407.6
45°	801.2	824.5	834.8	829.1	834.8	824.5	801.2	767.1	742.3	721.3	702.0
42.5°	1300.9	1321.4	1323.2	1292.9	1323.2	1321.4	1300.9	1269.3	1176.4	1059.4	977.5
40°	2574.3	2752.8	2813.9	2629.8	2813.9	2752.8	2574.3	2360.3	2064.5	1730.6	1507.0
37.5°	4562.6	5263.5	5848.2	5870.7	5848.2	5263.5	4562.6	3975.1	3487.8	3005.1	2574.7
35°	7394.5	8115.6	8464.2	8449.4	8464.2	8115.6	7394.5	6333.5	5346.1	4672.2	4045.9
32.5°	10393.2	10939.4	11288.6	11204.5	11288.6	10939.4	10393.2	9309.6	7801.6	6563.4	5781.2
30°	13722.1	14228.9	14635.8	14629.7	14635.8	14228.9	13722.1	12805.8	11522.9	9969.4	8214.5
27.5°	18961.3	20005.8	20835.9	20695.2	20835.9	20005.8	18961.3	17375.0	15426.2	13748.8	11860.6
25°	27061.1	28971.6	30322.3	30044.4	30322.3	28971.6	27061.1	24672.7	21841.4	19317.3	16447.6
22.5°	39026.5	41477.5	42502.2	41689.5	42502.2	41477.5	39026.5	36101.8	32162.3	27734.1	23747.5
20°	57760.1	62304.1	65129.0	63444.4	65129.0	62304.1	57760.1	52155.7	46272.8	39296.2	33153.2
17.5°	86701.5	96559.1	104348.0	104133.2	104348.0	96559.1	86701.5	74232.7	64598.9	54181.1	44681.6
15°	121578.7	132798.7	141437.9	142436.9	141437.9	132798.7	121578.7	105368.5	86749.9	71435.2	57542.9
12.5°	152807.6	164218.3	172672.7	175105.3	172672.7	164218.3	152807.6	134123.1	112491.8	89393.0	70347.3
10°	175064.3	186451.4	194634.5	197520.0	194634.5	186451.4	175064.3	158649.4	134911.0	108152.0	82496.4
7.5°	191391.6	203745.6	209879.5	213014.8	209879.5	203745.6	191391.6	174540.3	152771.1	125325.3	97097.3
5°	203140.0	214621.6	220555.7	224354.9	220555.7	214621.6	203140.0	186458.0	166005.9	139124.6	108406.5
2.5°	210546.2	221385.7	228511.9	231919.6	228511.9	221385.7	210546.2	195087.9	174115.9	147623.0	115399.7
0°	212936.5	223342.6	231330.0	234384.7	231330.0	223342.6	212936.5	198255.2	176879.3	151080.0	118485.8
-2.5°	211824.7	222018.3	228388.8	229623.7	228388.8	222018.3	211824.7	197967.4	177822.0	151675.4	120094.2
-5°	206038.6	215433.7	221316.2	222282.8	221316.2	215433.7	206038.6	192398.5	172813.8	145993.4	115493.0
-7.5°	196063.5	205435.5	210297.8	211729.4	210297.8	205435.5	196063.5	181940.4	162980.8	136108.7	106848.7
-10°	181600.5	190654.9	195851.5	197084.1	195851.5	190654.9	181600.5	167575.0	146508.5	121384.5	94012.9
-12.5°	161865.4	171524.7	177340.8	178622.1	177340.8	171524.7	161865.4	146515.0	126768.3	102538.1	82975.4
-15°	136274.9	146210.7	153635.5	155431.7	153635.5	146210.7	136274.9	121987.1	102739.4	86013.8	71019.5
-17.5°	106776.6	116719.4	123391.2	124664.9	123391.2	116719.4	106776.6	94089.8	82781.7	70473.2	59650.1
-20°	81370.8	87765.4	91530.9	92186.7	91530.9	87765.4	81370.8	74068.4	66295.8	57511.0	49121.7



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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°	63057.4	67355.3	69647.9	69971.4	69647.9	67355.3	63057.4	58329.5	52544.2	46184.3	39705.8
-25°	48863.5	51986.2	53693.8	53978.1	53693.8	51986.2	48863.5	45056.0	40809.7	36716.1	32054.1
-27.5°	37518.7	39458.6	41047.4	40716.6	41047.4	39458.6	37518.7	34940.4	32077.5	29605.3	26665.3
-30°	29688.0	30932.2	31870.7	31624.8	31870.7	30932.2	29688.0	28054.7	26066.7	24031.2	21715.9
-32.5°	24028.5	25003.3	25663.0	25838.8	25663.0	25003.3	24028.5	22623.2	20841.9	18950.2	17041.5
-35°	18676.1	19472.6	19929.8	20107.3	19929.8	19472.6	18676.1	17529.8	16069.1	14179.8	12576.8
-37.5°	13635.5	14334.1	14770.3	14921.9	14770.3	14334.1	13635.5	12678.2	11388.5	9803.7	8565.3
-40°	9074.7	9613.1	9970.4	10108.7	9970.4	9613.1	9074.7	8364.6	7437.0	6352.9	5512.8
-42.5°	5610.8	5862.8	6022.4	6072.4	6022.4	5862.8	5610.8	5280.2	4855.8	4303.3	3849.7
-45°	3991.1	4060.7	4100.6	4108.2	4100.6	4060.7	3991.1	3893.3	3766.7	3613.5	3444.8
-47.5°	3556.8	3611.6	3639.7	3640.9	3639.7	3611.6	3556.8	3472.6	3365.0	3236.4	3105.0
-50°	3187.1	3237.9	3263.5	3265.2	3263.5	3237.9	3187.1	3113.6	3024.5	2918.1	2812.4
-52.5°	2864.6	2905.2	2923.9	2924.3	2923.9	2905.2	2864.6	2806.7	2736.0	2646.4	2560.6
-55°	2597.0	2628.5	2640.2	2637.9	2640.2	2628.5	2597.0	2551.0	2494.9	2419.6	2347.2
-57.5°	2378.0	2408.8	2418.6	2415.3	2418.6	2408.8	2378.0	2337.7	2289.2	2225.0	2159.5
-60°	2163.2	2196.3	2208.7	2207.7	2208.7	2196.3	2163.2	2116.5	2056.6	1982.9	1901.9
-62.5°	1823.7	1849.0	1862.6	1866.8	1862.6	1849.0	1823.7	1783.5	1727.4	1661.3	1587.7
-65°	1462.4	1482.6	1493.5	1496.9	1493.5	1482.6	1462.4	1430.7	1384.7	1331.7	1272.6
-67.5°	1135.1	1149.6	1156.6	1158.4	1156.6	1149.6	1135.1	1112.5	1077.6	1037.5	992.3
-70°	877.9	889.7	895.4	897.5	895.4	889.7	877.9	860.6	832.8	802.1	768.8
-72.5°	692.4	701.8	705.7	707.3	705.7	701.8	692.4	679.4	656.8	633.1	608.9
-75°	559.1	564.7	567.1	568.2	567.1	564.7	559.1	551.0	533.9	516.1	497.5
-77.5°	471.5	477.6	479.7	481.2	479.7	477.6	471.5	464.4	451.4	437.7	421.4
-80°	417.1	421.4	423.1	424.4	423.1	421.4	417.1	412.0	400.7	389.2	376.4
-82.5°	378.7	384.5	384.9	385.0	384.9	384.5	378.7	372.6	362.9	353.0	342.0
-85°	342.0	346.4	347.2	347.9	347.2	346.4	342.0	337.5	328.8	320.0	310.6
-87.5°	309.9	314.1	314.2	314.2	314.2	314.1	309.9	305.7	298.0	290.2	281.9
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	2.3	2.3



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	253.9	248.7	243.5	240.0	236.5	231.3	226.1	218.6	211.0	203.5	196.0
87.5°	3.4	3.4	3.4	3.4	3.5	4.0	4.4	4.5	4.6	4.6	4.6
85°	3.5	4.0	4.4	4.4	4.3	4.4	4.6	5.0	5.2	5.2	5.1
82.5°	4.4	4.5	4.6	4.6	4.6	4.9	5.2	5.5	5.8	5.9	6.0
80°	4.6	4.6	4.7	5.0	5.2	5.5	5.8	5.9	6.0	6.5	6.8
77.5°	4.6	4.6	4.7	5.3	5.8	6.0	6.0	6.5	6.8	6.9	7.0
75°	6.8	6.5	6.3	6.5	6.7	6.8	6.9	6.9	7.1	7.3	7.2
72.5°	12.3	12.0	11.5	10.9	10.3	10.5	10.5	9.9	9.3	8.7	8.0
70°	18.7	19.3	19.9	19.9	19.9	19.9	18.5	16.4	14.5	13.7	11.8
67.5°	24.7	25.4	27.1	29.8	29.5	29.0	27.8	26.2	23.4	20.8	17.1
65°	28.1	29.5	29.6	29.4	31.5	33.4	35.5	34.6	34.5	30.9	24.3
62.5°	24.1	26.6	25.7	25.3	28.0	33.6	42.3	46.2	48.3	45.0	36.7
60°	14.2	15.9	16.9	18.9	22.3	31.6	45.4	55.4	64.0	58.2	48.6
57.5°	7.0	8.3	10.7	14.0	17.8	30.1	45.9	59.4	69.2	65.5	59.3
55°	11.5	13.2	14.4	15.8	17.2	30.5	44.4	58.4	68.9	67.8	62.6
52.5°	35.8	41.6	41.3	33.9	34.9	42.7	46.0	60.6	70.3	71.5	67.3
50°	147.9	153.7	133.7	110.4	110.5	87.4	91.0	87.3	84.5	86.7	78.4
47.5°	393.7	374.1	329.9	294.9	263.8	229.3	212.6	172.3	163.9	126.4	119.9
45°	673.0	642.9	591.1	532.5	482.3	437.4	396.0	363.4	301.2	268.2	189.1
42.5°	935.5	887.8	827.4	763.9	703.9	637.5	588.0	549.8	507.6	444.1	374.7
40°	1327.6	1117.0	1040.5	965.9	885.9	808.7	752.4	694.6	664.7	614.8	547.7
37.5°	2078.0	1618.1	1390.0	1164.8	1066.8	980.6	915.6	856.3	799.2	755.3	692.1
35°	3308.1	2648.7	2040.8	1623.9	1294.1	1178.8	1093.5	1025.7	955.1	884.3	824.6
32.5°	4853.8	4035.8	3172.4	2424.7	1825.2	1452.6	1303.4	1207.1	1116.7	1029.5	944.0
30°	6712.4	5686.7	4593.8	3585.0	2757.3	2041.8	1574.2	1412.0	1289.9	1180.0	1067.8
27.5°	9916.4	7765.9	6441.6	5178.2	4129.4	3130.4	2227.2	1640.2	1477.9	1343.4	1210.2
25°	14306.4	11874.7	9481.2	7764.6	6358.4	4651.2	3202.3	2214.7	1704.5	1515.5	1356.8
22.5°	19802.3	16530.7	13532.9	10896.7	8843.6	6644.7	4581.4	2851.0	1948.6	1697.5	1510.8
20°	26750.5	21402.5	17654.5	14278.3	11322.7	8537.9	5927.5	3816.3	2485.4	1891.9	1660.5
17.5°	35926.8	28033.2	22266.9	17926.2	14169.2	10875.8	7720.0	5025.2	2987.9	2089.7	1807.6
15°	45624.9	35554.6	27717.6	21577.9	16769.5	12942.6	9542.9	6236.5	3689.3	2439.9	1971.8
12.5°	56000.7	43799.7	33319.0	25289.0	19229.3	14754.4	11036.9	7557.7	4635.8	2851.4	2111.3
10°	64734.4	50874.1	39042.4	29597.1	22425.4	16770.8	12313.2	8603.7	5392.1	3210.7	2234.1
7.5°	73902.7	56835.1	43405.1	32665.7	24890.0	18901.4	13628.1	9380.7	5972.1	3478.4	2328.6
5°	80155.2	60790.1	46366.3	34752.6	26445.0	20354.3	14868.2	9919.9	6339.7	3661.1	2407.8
2.5°	84074.7	62939.6	47967.1	36306.7	27263.9	21085.0	15839.6	10602.2	6650.4	3824.1	2487.1
0°	86321.8	64912.4	49294.8	37278.7	27718.4	21481.3	16343.5	11393.5	6859.7	3933.1	2550.9
-2.5°	88190.2	65269.3	48991.3	36528.6	27437.1	21290.0	16232.0	11694.8	7312.1	4043.5	2619.1
-5°	86161.5	64372.0	47904.8	35606.8	27050.9	20988.7	15997.4	11607.1	7436.6	4091.0	2667.5
-7.5°	81360.7	61697.8	46104.0	34258.5	26280.5	20484.1	15560.3	11109.7	7129.8	4112.5	2732.1
-10°	74108.6	57391.8	43069.1	32430.9	25175.1	19704.7	14917.3	10537.4	6716.1	4024.2	2773.8
-12.5°	66437.3	52025.7	39403.6	29876.5	23641.5	18602.1	14003.3	9750.9	6147.5	3822.9	2805.2
-15°	58189.8	46039.1	35697.1	27731.0	21848.0	17165.3	12840.2	8746.6	5412.7	3532.3	2810.5
-17.5°	49639.3	40027.5	31350.5	24908.0	19836.3	15475.6	11412.9	7736.2	4878.9	3315.2	2795.1
-20°	41028.7	34041.6	27774.2	22253.8	17536.4	13426.9	9710.8	6511.0	4333.0	3262.3	2788.5



REPORT NUMBER: P735972 (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°	33688.4	28995.4	24211.4	19413.4	15288.5	11372.5	7982.5	5291.1	3674.6	3147.4	2747.3
-25°	28317.6	24507.2	20599.5	16748.4	12879.5	9238.6	6245.8	4420.8	3453.4	3041.1	2671.6
-27.5°	23544.1	20249.7	16989.0	13633.3	10257.0	7199.7	4961.0	3644.2	3232.2	2899.2	2594.8
-30°	19079.4	16240.5	13367.5	10431.3	7774.5	5412.6	3901.5	3396.0	3047.0	2747.3	2474.5
-32.5°	14776.9	12404.0	9883.5	7567.1	5548.1	4144.5	3527.5	3157.5	2868.9	2604.6	2361.2
-35°	10697.3	8837.3	6831.4	5322.9	4061.7	3602.8	3263.0	2971.0	2702.8	2461.3	2245.8
-37.5°	7156.5	5817.2	4813.0	3895.6	3598.1	3308.0	3046.3	2788.2	2538.9	2332.1	2142.3
-40°	4786.3	3989.2	3765.1	3521.1	3294.9	3068.2	2836.5	2603.5	2399.8	2210.6	2043.9
-42.5°	3695.9	3535.5	3388.3	3217.9	3034.1	2837.7	2633.7	2442.8	2264.3	2103.7	1954.4
-45°	3316.1	3192.5	3074.8	2944.9	2789.4	2625.1	2451.6	2292.8	2140.8	2001.7	1865.4
-47.5°	2993.9	2895.5	2795.0	2695.3	2568.6	2433.9	2296.8	2156.8	2028.8	1893.5	1700.0
-50°	2713.8	2635.4	2550.3	2467.4	2377.7	2275.4	2156.8	2037.4	1891.4	1708.2	1526.8
-52.5°	2481.9	2414.5	2345.1	2281.9	2213.6	2128.3	2022.7	1859.4	1691.1	1516.3	1345.9
-55°	2283.5	2226.4	2169.2	2119.7	2055.5	1931.5	1797.3	1639.9	1476.0	1314.7	1168.4
-57.5°	2109.6	2046.8	1962.9	1880.7	1797.5	1680.6	1548.3	1400.6	1260.2	1125.2	992.5
-60°	1836.9	1766.2	1682.2	1596.5	1512.3	1409.2	1298.1	1178.5	1053.7	942.6	832.4
-62.5°	1523.5	1456.2	1383.2	1310.1	1242.0	1162.4	1065.3	969.5	868.5	770.1	690.6
-65°	1219.4	1166.1	1105.6	1047.5	994.0	935.1	853.6	780.8	709.0	635.7	566.4
-67.5°	950.0	908.2	861.2	815.0	781.0	744.3	690.2	630.9	578.7	531.1	487.0
-70°	737.9	710.4	680.4	647.6	621.4	598.8	565.1	525.5	484.5	447.4	413.5
-72.5°	586.7	569.3	550.2	529.4	508.5	491.6	468.5	439.4	408.9	376.4	349.7
-75°	479.6	466.8	452.9	438.7	423.6	407.4	392.4	375.0	356.4	336.5	318.1
-77.5°	406.3	397.5	388.5	380.7	372.4	363.3	352.1	336.7	322.1	306.7	292.3
-80°	364.1	356.6	349.3	343.4	337.1	329.6	320.8	308.0	295.0	281.8	269.4
-82.5°	331.2	325.0	318.7	313.1	307.2	300.3	292.8	281.9	270.8	259.2	247.8
-85°	301.2	295.5	289.7	284.5	279.3	273.1	266.6	257.1	247.6	237.1	226.7
-87.5°	273.5	268.0	262.4	258.5	254.5	248.9	243.1	235.0	226.9	217.9	209.0
-90°	2.3	2.3	2.3	2.9	3.5	3.5	3.5	4.1	4.6	4.6	4.6





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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°	189.0	182.0	175.1	168.1	162.3	156.5	150.2	143.8	135.1	126.4	113.1
87.5°	5.0	5.4	5.9	6.5	6.4	6.4	6.9	7.5	7.4	7.4	7.9
85°	5.6	6.2	6.5	7.0	7.0	7.0	7.5	7.9	7.8	7.8	8.3
82.5°	6.5	6.9	6.9	7.0	7.4	7.6	8.0	8.4	8.4	8.2	8.6
80°	6.8	7.1	7.3	7.4	7.7	8.2	8.6	9.0	9.1	9.0	9.2
77.5°	7.0	7.1	7.7	8.0	8.0	8.2	8.8	9.4	9.8	9.8	9.9
75°	7.0	7.2	7.8	8.2	8.3	8.3	8.9	9.6	10.2	10.6	10.6
72.5°	7.8	7.8	8.1	8.4	8.7	9.0	9.3	9.8	10.6	11.1	11.3
70°	9.8	8.9	8.9	9.3	9.6	9.9	10.4	10.7	11.0	11.7	12.0
67.5°	12.9	11.5	10.6	10.5	10.8	11.1	11.4	11.7	12.0	12.3	12.6
65°	20.1	16.3	12.8	12.6	12.5	12.4	12.6	13.2	13.0	13.7	13.3
62.5°	29.1	23.2	19.5	16.2	15.2	15.9	14.1	15.7	14.5	15.3	14.8
60°	39.4	31.3	27.2	24.0	21.4	21.0	20.1	18.7	18.3	17.1	16.9
57.5°	48.1	38.5	36.1	32.5	31.0	28.9	27.6	25.3	22.8	21.3	19.1
55°	54.9	46.9	45.8	42.7	42.1	38.9	37.1	33.9	28.8	26.4	21.7
52.5°	58.8	57.7	56.7	56.5	55.8	51.2	49.1	43.3	38.8	31.9	26.8
50°	68.5	72.4	71.0	74.4	71.7	69.3	62.1	56.1	49.6	39.1	32.4
47.5°	101.2	104.1	96.2	98.6	93.8	90.2	81.2	70.6	61.1	49.8	38.2
45°	186.7	156.6	147.3	136.1	125.0	120.2	104.2	86.1	75.3	61.0	44.3
42.5°	305.6	263.7	235.0	181.1	177.0	156.8	131.9	111.1	90.2	72.8	52.9
40°	467.5	411.5	349.8	292.6	242.1	198.8	173.0	139.9	105.9	85.6	63.5
37.5°	622.8	559.2	496.3	419.0	327.9	268.8	219.8	171.2	126.2	100.5	74.2
35°	751.1	689.1	629.8	546.9	452.0	342.5	271.0	209.1	155.2	116.0	85.1
32.5°	866.7	795.1	725.0	657.6	555.1	417.8	333.3	252.3	184.8	132.1	96.0
30°	977.2	890.1	808.4	743.2	636.8	502.5	394.9	293.5	215.0	148.7	107.2
27.5°	1092.0	985.7	889.0	813.0	703.0	575.3	443.3	332.6	245.7	166.9	119.4
25°	1214.9	1090.0	982.8	886.3	769.7	629.4	486.6	369.7	277.6	187.9	131.1
22.5°	1345.1	1194.5	1073.4	964.9	843.4	682.1	528.8	407.7	302.4	207.6	142.2
20°	1468.2	1291.8	1156.0	1030.2	914.0	741.8	572.1	438.4	325.5	225.8	152.6
17.5°	1590.7	1385.6	1220.1	1087.6	974.0	803.4	616.6	467.1	347.0	242.6	162.5
15°	1706.2	1477.0	1284.4	1138.3	1022.1	861.5	660.1	494.1	366.7	257.9	172.3
12.5°	1813.2	1563.2	1347.9	1181.9	1057.9	913.6	701.6	519.2	384.5	273.3	182.2
10°	1909.1	1644.2	1410.0	1223.6	1089.0	959.8	740.7	546.8	407.5	288.5	191.6
7.5°	1988.1	1718.2	1467.1	1263.1	1117.2	999.4	783.0	582.2	430.2	302.2	200.2
5°	2055.7	1785.0	1523.9	1309.4	1149.7	1031.5	821.4	615.5	451.2	314.4	208.1
2.5°	2117.0	1843.6	1577.3	1353.4	1179.9	1057.2	854.9	646.2	470.3	325.0	215.2
0°	2167.1	1892.3	1623.3	1392.6	1207.1	1077.2	883.6	673.7	487.0	333.9	221.5
-2.5°	2212.4	1926.9	1661.3	1433.7	1252.4	1107.1	901.1	687.5	500.7	345.6	229.1
-5°	2245.6	1952.2	1692.1	1469.7	1292.9	1131.2	913.6	697.5	511.6	355.4	235.7
-7.5°	2298.0	1981.5	1719.7	1501.2	1327.7	1148.8	920.9	703.8	519.6	363.0	241.4
-10°	2338.7	2008.4	1745.2	1527.3	1350.5	1163.5	924.8	706.5	524.6	368.3	245.9
-12.5°	2370.4	2027.8	1762.2	1546.6	1368.6	1176.0	934.7	709.6	526.5	371.1	249.3
-15°	2394.5	2056.3	1779.9	1559.8	1383.7	1182.5	937.3	709.5	524.2	370.6	251.5
-17.5°	2402.1	2067.2	1788.8	1570.2	1394.3	1182.8	932.0	703.5	518.4	367.0	253.0
-20°	2405.9	2071.6	1785.4	1571.2	1397.5	1169.0	918.4	691.4	509.0	361.2	253.7



REPORT NUMBER: P735972 (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°	2394.8	2073.5	1797.1	1569.6	1386.2	1147.1	896.4	673.4	496.0	353.2	253.3
-25°	2347.9	2063.8	1799.3	1575.1	1356.8	1116.1	872.8	654.6	479.3	342.9	251.9
-27.5°	2291.6	2027.7	1788.3	1568.1	1326.7	1079.8	847.3	638.5	465.0	330.5	249.3
-30°	2229.3	1986.0	1762.3	1542.6	1286.3	1040.5	816.4	617.4	451.8	323.1	245.6
-32.5°	2141.1	1937.5	1727.9	1489.5	1236.2	994.2	779.4	591.0	435.0	318.8	242.4
-35°	2055.3	1878.5	1686.0	1424.8	1177.5	947.3	739.2	559.2	414.8	312.7	238.7
-37.5°	1964.6	1805.3	1603.8	1349.8	1108.6	893.2	698.4	528.9	391.1	304.8	233.9
-40°	1882.7	1707.6	1489.9	1264.7	1036.8	830.8	652.1	499.2	375.8	295.2	227.7
-42.5°	1796.1	1576.8	1369.2	1164.7	958.1	770.1	602.3	466.0	363.2	285.8	220.3
-45°	1653.8	1442.3	1241.2	1056.8	873.1	703.1	560.6	432.3	348.3	275.7	214.0
-47.5°	1503.7	1303.3	1113.7	943.6	790.6	635.1	512.4	412.6	331.1	264.1	210.2
-50°	1347.3	1163.8	988.7	837.1	696.3	577.5	466.4	390.1	315.8	250.9	205.8
-52.5°	1186.0	1025.1	870.3	730.1	618.9	515.8	434.8	364.3	298.5	242.1	200.7
-55°	1025.2	891.3	753.4	638.0	543.5	470.1	400.6	339.6	279.4	234.9	195.3
-57.5°	874.9	757.5	652.2	555.0	483.2	425.6	368.1	313.0	267.2	226.7	192.2
-60°	730.0	645.0	556.2	489.3	432.0	383.1	335.9	289.4	256.4	218.5	188.2
-62.5°	611.2	540.9	488.6	432.7	384.3	343.5	305.0	274.4	244.0	212.7	183.5
-65°	517.8	472.2	425.8	382.3	340.3	308.3	286.9	258.8	234.0	206.2	178.2
-67.5°	444.2	407.6	371.4	333.2	307.3	287.3	267.6	246.5	224.5	199.1	172.4
-70°	379.5	346.9	324.9	305.0	284.7	266.9	253.1	235.3	214.5	191.7	166.2
-72.5°	331.3	314.1	297.4	280.0	265.6	252.3	239.5	223.7	204.6	183.8	159.5
-75°	301.6	288.1	275.4	262.3	249.7	237.6	225.7	211.7	194.2	175.4	152.7
-77.5°	280.4	268.8	256.5	244.7	233.8	222.7	211.7	199.4	183.5	166.7	145.5
-80°	259.4	249.1	238.4	228.0	217.9	207.7	197.9	187.1	172.6	157.6	138.0
-82.5°	238.4	229.2	220.3	211.3	202.4	193.6	184.4	174.6	161.5	148.2	131.0
-85°	218.8	210.9	202.7	194.4	186.9	179.4	171.3	163.1	152.1	141.0	125.2
-87.5°	202.2	195.4	188.1	180.7	174.4	168.0	160.8	153.5	143.7	133.8	119.2
-90°	4.6	4.6	5.2	5.8	5.8	5.8	6.4	7.0	7.0	7.0	7.6



REPORT NUMBER: P735972 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	99.7	82.9	66.1	47.5	29.0	19.7	10.4
87.5°	8.4	8.5	8.5	8.4	8.3	9.5	10.4
85°	8.7	8.9	8.9	8.7	8.5	9.7	10.4
82.5°	9.1	9.2	9.3	9.0	8.7	9.9	10.4
80°	9.4	9.6	9.7	9.3	9.0	10.1	10.4
77.5°	10.0	10.1	10.1	9.6	9.2	10.3	10.4
75°	10.6	10.6	10.5	9.9	9.4	10.5	10.4
72.5°	11.3	11.1	10.9	10.2	9.7	10.7	10.4
70°	11.9	11.7	11.4	10.5	10.0	11.0	10.4
67.5°	12.7	12.2	11.8	11.0	10.3	11.2	10.4
65°	13.6	13.0	12.3	11.4	10.6	11.4	10.4
62.5°	14.6	14.0	12.8	11.9	11.0	11.6	10.4
60°	15.6	15.1	13.4	12.4	11.3	11.9	10.4
57.5°	17.8	16.3	14.6	12.9	12.0	12.1	10.4
55°	20.2	17.5	15.9	13.4	12.7	12.4	10.4
52.5°	22.8	19.0	17.2	13.9	13.4	12.6	10.4
50°	25.5	21.6	18.6	14.4	14.1	12.9	10.4
47.5°	28.6	24.3	20.1	15.1	14.9	13.1	10.4
45°	33.9	27.2	21.6	16.3	15.8	13.4	10.4
42.5°	39.2	30.1	23.2	17.5	16.7	13.6	10.4
40°	44.9	33.2	25.3	19.2	17.6	13.9	10.4
37.5°	50.9	36.4	27.7	21.2	18.5	14.1	10.4
35°	56.8	40.7	30.2	23.3	19.5	14.4	10.4
32.5°	63.7	45.5	32.6	25.3	20.5	14.6	10.4
30°	72.5	50.1	35.1	27.4	21.5	14.9	10.4
27.5°	81.1	54.7	38.5	29.5	22.6	15.1	10.4
25°	89.5	59.2	41.9	31.7	23.6	15.4	10.4
22.5°	97.5	63.9	45.2	33.8	24.7	15.6	10.4
20°	105.2	69.1	48.5	35.8	25.8	15.8	10.4
17.5°	113.2	74.3	51.7	37.9	26.8	16.1	10.4
15°	121.2	79.3	54.7	40.0	27.9	16.3	10.4
12.5°	128.6	84.1	57.7	42.0	28.9	16.5	10.4
10°	135.5	88.6	60.6	43.9	29.9	16.7	10.4
7.5°	141.9	93.0	63.3	45.8	30.9	16.9	10.4
5°	147.8	97.1	65.9	47.6	31.9	17.1	10.4
2.5°	153.0	100.9	68.4	49.4	32.8	17.2	10.4
0°	157.7	104.4	70.7	51.0	33.6	17.4	10.4
-2.5°	163.1	108.6	74.0	53.2	34.9	18.0	10.4
-5°	167.9	112.5	77.1	55.2	36.1	18.6	10.4
-7.5°	172.0	116.0	80.1	57.1	37.3	19.2	10.4
-10°	175.4	119.1	82.8	59.0	38.4	19.8	10.4
-12.5°	178.1	121.9	85.4	60.6	39.4	20.3	10.4
-15°	180.0	124.3	87.7	62.2	40.3	20.9	10.4
-17.5°	181.2	126.3	89.7	63.6	41.2	21.4	10.4
-20°	182.1	128.0	91.5	64.8	41.9	21.8	10.4



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 CATALOG NUMBER: EPH-LS-08-0680N-57-80-4S-VHE

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	183.0	129.2	93.1	65.9	42.6	22.3	10.4
-25°	183.0	130.7	94.4	66.9	43.3	22.7	10.4
-27.5°	182.2	132.1	95.4	67.6	43.8	23.0	10.4
-30°	180.6	133.0	96.2	68.2	44.2	23.4	10.4
-32.5°	178.2	133.4	97.5	68.7	44.6	23.7	10.4
-35°	177.2	133.4	98.5	68.9	44.8	23.9	10.4
-37.5°	176.7	133.4	99.2	69.0	45.0	24.1	10.4
-40°	175.6	134.0	99.6	68.9	45.1	24.3	10.4
-42.5°	173.7	134.2	100.0	68.9	45.1	24.4	10.4
-45°	171.1	134.0	100.2	69.0	45.0	24.5	10.4
-47.5°	167.9	133.6	100.1	69.0	44.8	24.6	10.4
-50°	166.2	132.7	99.7	69.0	44.5	24.6	10.4
-52.5°	164.4	131.5	99.0	68.9	44.1	24.6	10.4
-55°	162.2	129.9	98.0	68.6	43.7	24.5	10.4
-57.5°	159.6	127.9	96.8	68.1	43.1	24.4	10.4
-60°	156.6	125.6	95.2	67.4	42.5	24.2	10.4
-62.5°	153.1	122.9	93.9	66.6	41.9	24.0	10.4
-65°	149.2	119.9	92.4	65.6	41.1	23.8	10.4
-67.5°	144.9	116.8	90.6	64.4	40.3	23.5	10.4
-70°	140.1	113.7	88.6	63.0	39.3	23.2	10.4
-72.5°	135.3	110.2	86.3	61.6	38.3	22.9	10.4
-75°	130.1	106.5	83.8	59.9	37.2	22.5	10.4
-77.5°	124.6	102.4	81.3	58.2	36.0	22.1	10.4
-80°	118.7	98.6	78.6	56.3	34.7	21.7	10.4
-82.5°	114.1	95.0	75.7	54.3	33.4	21.2	10.4
-85°	109.5	91.1	72.7	52.2	32.0	20.7	10.4
-87.5°	104.7	87.1	69.4	49.9	30.5	20.2	10.4
-90°	8.1	8.1	8.1	8.1	8.1	9.3	10.4

(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

